City of San Diego

CONTRACTOR'S NAME:_____
ADDRESS:_____
TELEPHONE NO.:_____ **FAX NO.:**_____
CITY CONTACT: Damian Singleton, Contract Specialist, Email: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633
M.Bajoua/BDoringo/egz

CONTRACT DOCUMENTS

FOR

UNIVERSITY AVE PIPELINE REPLACEMENT

VOLUME 1 OF 2

BID NO.: K-15-5716-DBB-3
SAP NO. (WBS/IO/CC): S-11021
CLIENT DEPARTMENT: 2013
COUNCIL DISTRICT: 3
PROJECT TYPE: KA

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- PHASED-FUNDING.
- FEDERAL EQUAL OPPORTUNITY CONTRACTING REQUIREMENTS.
- APPRENTICESHIP.
- PREVAILING WAGE RATES: STATE ☒ FEDERAL ☒
- THIS IS A SDWSRF FUNDED CONTRACT THROUGH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH.

BID DUE DATE:

2:00 PM
SEPTEMBER 16, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Civil Engineer:

7/23/14

1) Registered Civil Engineer — Date

Seal:

7/23/14

2) For City Engineer — Date

Seal

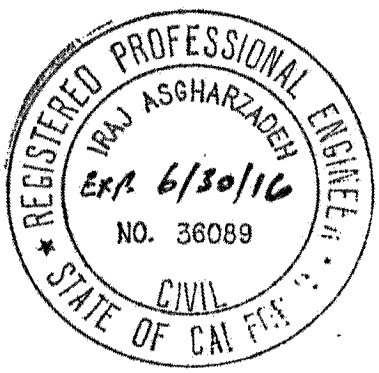


TABLE OF CONTENTS

DESCRIPTION **PAGE NUMBER**

1. NOTICE INVITING BIDS 5
2. CONTRACT FORMS 17
3. CONTRACT FORMS ATTACHMENTS:
    1. Performance Bond and Labor and Materialmen's Bond 21
    2. Drug-Free Workplace 23
    3. American with Disabilities Act (ADA) Compliance Certification 24
    4. Contractor Standards - Pledge of Compliance Certificate 25
    5. Affidavit of Disposal Certificate 26
4. ATTACHMENTS:
    A. SCOPE OF WORK 28
    B. PHASED FUNDING PROVISIONS 31
    C. EQUAL OPPORTUNITY CONTRACTING PROGRAM 34
    D. SDWSRF FUNDING AGENCY PROVISIONS 38
        1. Notice of Requirement for Affirmative Action to Ensure EEO (Executive Order 11246) 39
        2. Equal Opportunity Clauses 39
        3. Standard Federal Equal Employment Specifications 40
        4. Violation or Breach of Requirements 42
        5. Monthly Employment Utilization Reports 42
        6. Records of Payments to DBE 42
        7. State Requirements for Contracts Subject To State Prevailing Wage Requirements 42
        8. Federal Wage Requirements For Federally Funded Projects 44
        9. Wage Rates 45
        10. Federal Labor Standards Provisions 72
        11. Agency Specific Provisions 78
        12. DBE Potential Resources Centers 81
        13. Good Faith Effort Documentation Submittals 83
        14. Forms 83
            EPA FORM 6100-2 DBE Subcontractor Participation Form 86
            EPA Form 5700-52A MBE/WBE Utilization Forms 88
            SDWSRF DBE Information Form 90
            SDWSRF Verification of Qualifications 91
            Form AA61 List of Work Made Available 93
            Form AA62 Summary of Bids Received 94
            Form AA63 DBE Good Faith Effort List of Subcontractors Solicited 95

TABLE OF CONTENTS

DESCRIPTION **PAGE NUMBER**

E. SUPPLEMENTARY SPECIAL PROVISIONS 96

TECHNICALS 135

SUPPLEMENTARY SPECIAL PROVISIONS APPENDICES 148

1. Appendix A - Addendum to Mitigation Negative Declaration 149
2. Appendix B - Fire Hydrant Meter Program 170
3. Appendix C - Materials Typically Accepted by Certificate of Compliance 184
4. Appendix D - Sample City Invoice 186
5. Appendix E - Location Map 188
6. Appendix F – Adjacent Projects 190
7. Appendix G - Hydrostatic Discharge Form 192
8. Appendix H - Hazardous Labels/Forms 194
9. Appendix I - Long-Term Revegetation Maintenance and Monitoring Contract 199

F. INTENTIONALLY LEFT BLANK 215

CITY OF SAN DIEGO, CALIFORNIA

NOTICE INVITING BIDS

1. **RECEIPT AND OPENING OF BIDS:** Bids will be received at the Public Works Contracts at the location, time, and date shown on the cover of these specifications for performing work on **University Ave Pipeline Replacement** (Project).

2. **SUMMARY OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described in ATTACHMENT A.

3. **BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.

4. **SUBCONTRACTING PARTICIPATION PERCENTAGES:**

4.1. The City affirms that in any contract entered into pursuant to this advertisement, DBE will be afforded full opportunity to submit Bids in response to this invitation.

4.2. This Federally assisted project includes subcontracting participation percentages for DBE participation. DBE goal commitments and Good Faith Efforts (GFE) shall be made prior to bidding. DBE commitments and GFE made after the Bid opening will not be considered for the Award of Contract.

4.3. This project is subject to the federal equal opportunity regulations and the following requirements. The City reserves the right to audit the Contractor's compliance with the federal requirements set forth below.

4.4. Following are federally subcontracting participation percentages for this contract. For the purpose of achieving the subcontractor participation percentage, Additive or Deductive, and Type II Allowance Bid Items will not be included in the calculation.

4.5. **Environmental Protection Agency (EPA) -** In accordance with EPA's Program for Utilization of Small, Minority Disadvantaged and Women Business Enterprises in procurement under Federal assistance programs, the Contractor agrees to the applicable "fair share" objectives negotiated with EPA as follows:

4.6. **California Department of Public Health Service - Safe Drinking Water State Revolving Fund (SDWSRF):**

	MBE*	WBE*
1. Construction	11%	4%
2. Supplies	2%	2%
3. Services	4%	2%
4. Equipment (combined in above)	2%	1%

Note: MBEs and WBEs must be certified by EPA, SBA, DOT or by state, local, Tribal, or private entities whose certification criteria match EPAs in order to be counted toward MBE/WBE accomplishments. MBEs and WBEs are a part of the larger universe of DBEs.

4.7. Bid will be declared **non-responsive** if the Bidder fails any of the following conditions:

1. Submission of GFE documentation, as specified in the Special Provisions.

2. Attending the Pre-Bid Meeting.

3. Bidder's submission of GFE documentation demonstrating the Bidder made a good faith effort to outreach to and include DBE Subcontractors shall be submitted within **4 Working Days** of the Bid opening.

4.8. For additional Equal Opportunity Contracting Program requirements, see Attachment C.

4.9. For additional Federal Agency Equal Opportunity Contracting Program requirements and provisions, see Attachment D.

5. PRE-BID MEETING:

5.1. There will be a Pre-Bid Meeting to discuss the scope of the Project, bidding requirements, pre-qualification process, and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracts, Conference Room at 1010 Second Avenue, 14th Floor, San Diego, CA 92101 **at 10:00 AM, on AUGUST 14, 2014.**

5.2. **The Pre-Bid Meeting has been designated as MANDATORY. All potential bidders are required to attend.** Bid will be declared **non-responsive** if the Bidder fails to attend the Pre-Bid Meeting when specified to be mandatory. Attendance at the Pre-Bid Meeting will be evidenced by the representative's signature on the attendance roster. It shall be the responsibility of the Bidder's representative to complete and sign the attendance roster. **No Bidder will be admitted after the specified start time of the mandatory Pre-Bid Meeting.**

5.3. To request a copy of the agenda on an alternative format, or to request a sign language or oral interpreter for this meeting, call the Public Works Contracts at (619) 533-3450 at least 5 Working Days prior to the Pre-Bid Meeting to ensure availability.

6. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:

6.1. **Prior** to the Award of the Contract or each Task Order, you and your Subcontractors and Suppliers must register with the City's web-based contract compliance website, Prism®, located here:

https://pro.prismcompliance.com/default.aspx.

6.2. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

7. PRE-BID SITE VISIT: The prospective Bidders are encouraged to visit the Work Site with the Engineer. The purpose of the Site visit is to acquaint Bidders with the Site conditions. To request a sign language or oral interpreter for this visit, call the Public Works Contracts at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. A Pre-Bid Site Visit is offered when the details are provided as follows:

Time:	**1:30 PM**
Date:	**AUGUST 14, 2014**
Location:	**Intersection of Oregon St. and Lincoln Ave.**

8. JOINT VENTURE CONTRACTORS: Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 2-1.1.2, "Joint Venture Contractors" in The WHITEBOOK for details.

9. PREVAILING WAGE RATES: Prevailing wage rates apply to this contract. Refer to Attachment D, Funding Agency Provisions.

10. INSURANCE REQUIREMENTS:

10.1. All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City's Notice of Intent to Award letter.

10.2. Refer to sections 7-3, "LIABILITY INSURANCE", and 7-4, "WORKERS' COMPENSATION INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

11. PREQUALIFICATION OF CONTRACTORS:

11.1. Contractors submitting Bid must be pre-qualified for the total amount proposed, inclusive of all alternate items prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified will be deemed **non-responsive** and ineligible for award. Complete information and prequalification questionnaires are available at:

http://www.sandiego.gov/cip/bidopps/prequalification.shtml

11.2. The completed questionnaire, financial statement, and bond letter or a copy of the contractor's SLBE-ELBE certification and bond letter, must be submitted no later than 2 weeks prior to the bid opening to the Public Works Contracts, Prequalification Program, 1010 Second Avenue, 14th Floor, San Diego, CA 92101. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.

12. REFERENCE STANDARDS: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK")	2012	PITS070112-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")*	2012	PITS070112-02
City of San Diego Standard Drawings*	2012	PITS070112-03
Caltrans Standard Specifications	2010	PITS070112-04
Caltrans Standard Plans	2010	PITS070112-05
California MUTCD	2012	PITS070112-06
City Standard Drawings - Updates Approved For Use (when specified)*	Varies	Varies
Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause Dated 09-11-84	1984	769023
NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml		

13. CITY'S RESPONSES AND ADDENDA: The City at its option, may respond to any or all questions submitted in writing, via letter, or FAX in the form of an addendum. No oral comment shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addendum are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda on the form provided for this purpose in the Bid.

14. CITY'S RIGHTS RESERVED: The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.

15. CONTRACT PRICING FORMAT: This solicitation is for a Lump Sum contract with Unit Price provisions as set forth in the Bid Proposal Form(s), Volume 2.

16. SUBMITTAL OF "OR EQUAL" ITEMS: See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.

17. AWARD PROCESS:

17.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.

17.2. Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.

17.3. This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.

18. SUBCONTRACT LIMITATIONS: The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the Bid **non-responsive** and ineligible for award.

19. AVAILABILITY OF PLANS AND SPECIFICATIONS: Contract Documents may be obtained by visiting the City's website: http://www.sandiego.gov/cip/. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracts.

20. SUBMISSION OF QUESTIONS:

20.1. The Director (or designee), of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:

Public Works Contracts
1010 Second Avenue, 14th Floor
San Diego, California, 92101
Attention: [Contract Specialist listed on the front cover hereof]

OR:

Email address of the Contract Specialist listed on the front cover hereof.

20.2. Questions received less than 14 days prior to the date for opening of Bids may not be considered.

20.3. Clarifications deemed by the City to be material shall be issued by Addenda and uploaded to the City's online bidding service.

20.4. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. It is the Bidder's responsibility to become informed of any Addenda that have been issued and to include all such information in its Bid.

21. ELIGIBLE BIDDERS: No person, firm, or corporation shall be allowed to make, file, or be interested in **more** than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.

22. SAN DIEGO BUSINESS TAX CERTIFICATE: The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms with the Notice Inviting Bids and Contract forms.

23. PROPOSAL FORMS: Bid shall be made only upon the Bidding Documents i.e., Proposal form attached to and forming a part of the specifications. The signature of each person signing shall be in longhand.

23.1. Bidder shall complete and submit all pages in the "Bidding Document" Section (see Volume 2) as their Bid per the schedule given under "Required Documents Schedule," (see Volume 1). Bidder is requested to retain for their reference other portions of the Contract Documents that are not required to be submitted with the Bid. The entire specifications for the bid package do not need to be submitted with the bid.

23.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.

23.3. Bids and certain other forms and documents as specified in the Volume 2 of 2 of the Contract Documents shall be enclosed in a sealed envelope and shall bear the title of the work and name of the Bidder and the appropriate State Contractors License designation which the Bidder holds.

23.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.

24. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY):

24.1. With the exception of the contracts valued $5,000 or less, JOC and Design-Build contracts, and contracts subject to the Small and Local Business Program of $250,000 or less e.g., ELBE contracts, each Bidder shall accompany its Bid with either a cashier's check upon some responsible bank, or a check upon such bank properly certified or an approved corporate surety bond payable to the City of San Diego, for an amount of not less than 10% of the aggregate sum of the Bid, which check or bond, and the monies represented thereby shall be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into such contract and furnish the required final bonds.

24.2. The Bidder agrees that in case of Bidder's refusal or failure to execute this contract and give required final bonds, the money represented by a cashier's or certified check shall remain the property of the City, and if the Bidder shall fail to execute this contract, the Surety agrees that it will pay to the City damages which the City may suffer by reason of such failure, not exceeding the sum of 10% of the amount of the Bid.

24.3. A Bid received without the specified bid security will be rejected as being **non-responsive**.

25. AWARD OF CONTRACT OR REJECTION OF BIDS:

25.1. This contract may be awarded to the lowest responsible and reliable Bidder.

25.2. Bidders shall complete the entire Bid schedule (also referred to as "schedule of prices" or Proposal form). Incomplete price schedules will be rejected as being non-responsive.

25.3. The City reserves the right to reject any or all Bids, and to waive any informality or technicality in Bids received and any requirements of these specifications as to bidding procedure.

25.4. Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City from the Bidder within 3 Working Days, excluding Saturdays, Sundays, and state holidays, after the opening of Bids, of written notice which includes proof of honest, credible, clerical error of material nature, free from fraud or fraudulent intent, and of evidence that reasonable care was observed in the preparation of the Bid.

25.5. A non-selected Bidder may protest award of the Contract to the selected Bidder by submitting a written "Notice of Intent to Protest" including supporting documentation which shall be received by Public Works Contracts no later than 10 days after the City's announcement of the selected Bidder or no later than 10 days from the date that the City issues notice of designation of a Bidder as non-responsible in accordance with San Diego Municipal Code Chapter 2, § 22.3029, "Protests of Contract Award."

25.6. The City of San Diego will not discriminate with regard to race, religious creed, color, national origin, ancestry, physical handicap, marital status, sex or age, in the award of contracts.

25.7. Each Bid package properly executed as required by these specifications shall constitute a firm offer, which may be accepted by the City within the time specified in the Proposal.

25.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of any proposed alternates, additive items or options, at its discretion that will be disclosed in the Volume 2 of 2.

26. BID RESULTS:

26.1. The Bid opening by the City shall constitute the public announcement of the Apparent Low Bidder. In the event that the Apparent Low Bidder is subsequently deemed non-responsive or non-responsible, a public announcement will be posted in the City's web page http://www.sandiego.gov/cip/index.shtml, with the name of the newly designated Apparent Low Bidder.

26.2. To obtain Bid results, either attend Bid opening, review the results on the City's web site, or provide a self-addressed, stamped envelope, referencing Bid number,

and Bid tabulation will be mailed to you upon verification of extensions. Bid results cannot be given over the telephone.

27. THE CONTRACT:

27.1. The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.

27.2. If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.

27.3. If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.

27.4. Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.

27.5. The award of the Contract is contingent upon the satisfactory completion of the above mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.

28. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK: The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.

29. CITY STANDARD PROVISIONS: This contract is subject to the following standard provisions. See The WHITEBOOK for details.

29.1. The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.

29.2. The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.

29.3. The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.

29.4. The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.

29.5. Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.

29.6. The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).

29.7. The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

30. PRE-AWARD ACTIVITIES:

30.1. The selected contractor by the City to execute a contract for this Work shall provide the information required within the time specified in "Required Documents," of this bid package. Failure to provide the information within the time specified may result in the Bid being rejected as **non-responsive.**

30.2. If the Bid is rejected as non-responsive, the selected contractor by the City to execute a contract for this Work shall forfeit the required Bid. The decision that the selected contractor by the City to execute a contract for this Work is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

31. SUPPLEMENTAL AGREEMENTS: Supplemental agreements attached to this contract for the items of Work such as extended revegetation maintenance and monitoring and emulsion aggregate slurry shall be signed by the BIDDER at the time of submission of the primary BID. The signed agreements shall be accompanied by the evidence of a bond (i.e., labor and materials) and insurance as specified in 2-4, "CONTRACT BONDS," 7-3, "LIABILITY INSURANCE," and 7-4 WORKERS' COMPENSATION INSURANCE. Bonds shall be in amount of the Contract Price for the Work included in the supplemental agreements.

31.1. Partial Release of Performance Bond and Labor and Materialmen's Bond: For information regarding partial release of bonds for this Contract, see Supplementary Special Provisions, Appendix I.

32. PHASED FUNDING:

For additional Phased Funding Provisions, see Attachment B.

33. REQUIRED DOCUMENT SCHEDULE:

33.1. The Bidder's attention is directed to the City's Municipal Code §22.0807(e), (3)-(5) for important information regarding grounds for debarment for failure to submit required documentation.

33.2. The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

http://www.sandiego.gov/eoc/forms/index.shtml

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
1.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid
2.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid Bond
3.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106
4.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
5.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
6.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Lobby Prohibition, Certification and Disclosure
7.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Instructions for Completion of SF-LLL, Disclosure of Lobbying Activities
8.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Disclosure of Lobbying Activities
9.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
10.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
11.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	EPA FORM 6100-3 – DBE Subcontractor Performance Form
12.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	EPA FORM 6100-4 – DBE Subcontractor Utilization Form
13.	WITHIN 4 WORKING DAYS OF BID OPENING	ALL BIDDERS	Federal Good Faith Documentations

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
14.	WITHIN 4 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
15.	WITHIN 4 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA61 – List of Work Made Available
16.	WITHIN 4 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA62 – Summary of Bids Received
17.	WITHIN 4 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA63 – Good Faith Effort List of Subcontractors Solicited
18.	WITHIN 4 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SDWSRF DBE Information Form
19.	WITHIN 4 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SDWSRF Verification of Qualification
20.	WITHIN 4 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SDWSRF MBE/WBE Utilization
21.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Phased Funding Schedule Agreement (when required)
22.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Pre-Award Schedule (Phased Funded Contracts Only)
23.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principal individual owners of the Apparent Low Bidder
24.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture: • Joint Venture Agreement • Joint Venture License

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
25.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
26.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
27.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
28.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
29.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
30.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
31.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

CONTRACT FORMS

AGREEMENT

CONTRACT FORMS

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and BURTECH PIPELINE, INC., herein called "Contractor" for construction of **University Ave Pipeline Replacement**; Bid No. **K-15-5716-DBB-3**; in the amount of NINETEEN MILLION THREE HUNDRED FIFTY-FOUR THOUASND THREE HUNDRED SIXTY-FIVE DOLLARS AND 00/100 ($19,354,365.00), which is comprised of the Base Bid alone.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:

   (a) The attached Faithful Performance and Payment Bonds.

   (b) The attached Proposal included in the Bid documents by the Contractor.

   (c) Reference Standards listed in the Notice Inviting Bids and the Supplementary Special Provisions (SSP).

   (d) Phased Funding Schedule Agreement.

   (e) Long Term Revegetation Maintenance Contract.

   (f) That certain documents entitled **University Ave Pipeline Replacement**, on file in the office of the Public Works Department as Document No. **S-11021**, as well as all matters referenced therein.

2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **University Ave Pipeline Replacement**, Bid Number **K-15-5716-DBB-3**, San Diego, California.

3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.

4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.

5. This contract is effective as of the date that the Mayor or designee signs the agreement.

IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code **§22.3102** authorizing such execution.

THE CITY OF SAN DIEGO

By _____

Print Name: _____
James Nagelvoort
Public Works Director

Date: _____

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By Pedro De Lara, Jr.

Print Name: Pedro DeLara, Jr.
Deputy City Attorney

Date: 2/20/15

CONTRACTOR

By _____

Print Name: Dominic J. Burtech

Title: President & CEO

Date: Jan. 12, 2015

City of San Diego License No.: B19960020660

State Contractor's License No.: 718202

CONTRACT FORMS

ATTACHMENTS

EXECUTED IN TRIPLICATE
BOND NO. 2190785
PREMIUM: $100,483.00
PREMIUM IS FOR CONTRACT TERM
AND IS SUBJECT TO ADJUSTMENT
BASED ON FINAL CONTRACT PRICE

CONTRACT FORMS ATTACHMENTS
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

BURTECH PIPELINE, ~~XXX~~ INCORPORATED, a corporation, as principal, and NORTH AMERICAN SPECIALTY INSURANCE COMPANY, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of NINETEEN MILLION THREE HUNDRED FIFTY-FOUR THOUASND THREE HUNDRED SIXTY-FIVE DOLLARS AND 00/100 ($19,354,365.00) for the faithful performance of the annexed contract, and in the sum of NINETEEN MILLION THREE HUNDRED FIFTY-FOUR THOUASND THREE HUNDRED SIXTY-FIVE DOLLARS AND 00/100 ($19,354,365.00) for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **University Ave Pipeline Replacement**, Bid Number **K-15-5716-DBB-3**, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Chapter 3 of Division 5 of Title I of the Government Code of the State of California or under the provisions of Section 3082 et seq. of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated JANUARY 9, 2015

Approved as to Form and Legality

Jan I. Goldsmith, City Attorney

By _____
Deputy City Attorney

BURTECH PIPELINE, INCORPORATED
Principal

By _____

DOMINIC J. BURTECH, JR., PRESIDENT
Printed Name of Person Signing for Principal

NORTH AMERICAN
SPECIALTY INSURANCE COMPANY
Surety

By _____
MARK D. IATAROLA, Attorney-in-fact

Approved:

By _____
James Nagelvoort
Public Works Director

6 HUTTON CENTRE DRIVE, SUITE 850
Local Address of Surety

SANTA ANA, CA 92707
Local Address (City, State) of Surety

714/550-7799
Local Telephone No. of Surety

PREMIUM IS FOR CONTRACT TERM AND IS SUBJECT TO ADJUSTMENT BASED ON FINAL CONTRACT PRICE

Premium $ 100,483.00

Bond No. 2190785

California Acknowledgment Form

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Diego } ss.

On 1/12/16 before me, **Arthur P. Arquilla, Notary Public** (here insert name and title of the officer),

personally appeared Dominic Buttech

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Seal

WITNESS my hand and official seal.

Signature of Notary

ARTHUR P. ARQUILLA
Commission No. 2051358
NOTARY PUBLIC - CALIFORNIA
SAN DIEGO COUNTY
Commission Expires January 7, 2018

Optional Information

To help prevent fraud, it is recommended that you provide information about the attached document below.
This is not required under California State notary public law.

Document Title:_____ # of Pages:_____

Notes

©2014 Golden State Notary, Inc. www.Notary.net (888) 263-1977

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of SAN DIEGO)

On 1/9/2015 before me, MICHELLE M. BASUIL, NOTARY PUBLIC,
Date *Here Insert Name and Title of the Officer*

personally appeared MARK D. IATAROLA
Name(~~s~~) of Signer(~~s~~)

who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Michelle M. Basuil
Signature of Notary Public

MICHELLE M. BASUIL
COMM # 2034911
SAN DIEGO COUNTY
NOTARY PUBLIC-CALIFORNIA
MY COMMISSION EXPIRES
AUG. 24, 2017

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: MARK D. IATAROLA	Signer's Name: _____
☐ Corporate Officer — Title(s): _____	☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☒ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer Is Representing: _____	Signer Is Representing: _____

©2014 National Notary Association • www.NationalNotary.org • 1-800-US NOTARY (1-800-876-6827) Item #5907

NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schaumburg, Illinois, each does hereby make, constitute and appoint:

JOHN G. MALONEY, HELEN MALONEY, MICHELLE M. BASUIL,
GLENDA J. ROONEY, and MARK D. IATAROLA
JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION ($50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 9th of May, 2012:

"RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."

NORTH AMERICAN SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1973 NEW HAMPSHIRE

By _____
Steven P. Anderson, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company

By _____
David M. Layman, Vice President of Washington International Insurance Company
& Vice President of North American Specialty Insurance Company

WASHINGTON INTERNATIONAL INSURANCE COMPANY CORPORATE SEAL NEW HAMPSHIRE

IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 9th day of May, 2014.

North American Specialty Insurance Company
Washington International Insurance Company

State of Illinois
County of Cook ss:

On this 9th day of May, 2014, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and David M. Layman, Vice President of Washington International Insurance Company and Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.

"OFFICIAL SEAL"
DONNA D. SKLENS
Notary Public, State of Illinois
My Commission Expires 10/06/2015

Donna D. Sklens

Donna D. Sklens, Notary Public

I, Jeffrey Goldberg, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 9TH day of JANUARY, 2015.

Jeffrey Goldberg, Vice President & Assistant Secretary of
Washington International Insurance Company & North American Specialty Insurance Company

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

PROJECT TITLE: **University Ave Pipeline Replacement**

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

Burtech Pipeline Incorporated
(Name under which business is conducted)

has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

Signed _____

Printed Name Dominic J. Burtech

Title President & CEO

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: **University Ave Pipeline Replacement**

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that;

Burtech Pipeline Incorporated
(Name under which business is conducted)

has in place a workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

Signed _____

Printed Name Dominic J. Burtech

Title President & CEO

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: **University Ave Pipeline Replacement**

I declare under penalty of perjury that I am authorized to make this certification on behalf of Burtech Pipeline Inc., as Contractor, that I am familiar with the requirements of City of San Diego Municipal Code § 22.3224 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than $50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3224.

Dated this 12th Day of January, 2015.

Signed _____

Printed Name Dominic J. Burtech

Title President & CEO

AFFIDAVIT OF DISPOSAL

WHEREAS, on the _____ DAY OF _____, 2_____ the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

University Ave Pipeline Replacement
(Name of Project)

as particularly described in said contract and identified as Bid No. **K-15-5716-DBB-3**; SAP No. (WBS/IO/CC) **S-11021**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

_____

_____

_____

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

_____

_____

_____

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

_____ Contractor
by

ATTEST:

State of _____
County of _____

On this_____ DAY OF _____, 2_____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared_____
_____ known to me to be the _____
Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

ATTACHMENTS

ATTACHMENT A

SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** The Project Construction Scope of Work includes, but not limited to, replacing of cast iron pipeline, traffic control, storm water pollution and prevention, replacement of all existing water services, replacement and/or construction of additional fire hydrants, installation of new blow off valves, air release valves, and other hydraulic components necessary to complete the work as specified in the plans and specification:

1.1. Pipe replacement consists of the following segments as specified on the Plans:

a. University Ave Pipeline – Replacing existing 20 inch, 24 inch, 30 inch and 36 inch cast iron mains with 16 inch PVC pipe. The Project limits are from the intersection of Polk Avenue and Oregon Street to the intersection of West Lewis Street and Stephens Street.

b. Park Pipeline – Replacing 16 inch cast iron and asbestos cement main on Park Boulevard North from Robinson Avenue with 16 inch PVC pipe (total length approximately 60 feet).

c. 5th Avenue Pipeline – Replacing 24 inch cast iron main on 5th Avenue from Washington Ave to Robinson Avenue with 16 inch PVC pipe.

d. Robinson Avenue Pipeline – Replacing 16 inch cast iron main on Robinson Avenue from Park Boulevard to 5th Avenue with 16 inch PVC pipe.

e. Segment of University Ave Pipeline (390 Zone) – Replacing 24 inch and 30 inch cast iron mains with 36 inch cement mortar lined and coated steel pipeline. This segment, within North Park Community Park, and connecting to the Perishing Street Pipeline (approximate length of 185 feet).

1.2. Replacement and or addition of pedestrian curb-ramps per the plans, ADA requirements, and the current City Standards.

1.3. Restoring street surfaces, slurry seals, paving and striping as specified in the plans and specifications.

1.4. Revegetation and landscaping of impacted areas shall be included as a part of the project.

1.5. The Work shall be performed in accordance with:

1.5.1. The Notice Inviting Bids and Plans numbered **36656-1-D** through **36656-86-D,** and Traffic Control Plans **36656-T01-D** through **36656-T248-D,** inclusive.

2. **CONSTRUCTION COST:** The Engineer's Cost Estimate for this construction contract is **$17,483,000.**

3. **LOCATION OF WORK:** Refer to Scope of Work.

4. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **584 Working Days**.

5. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.

5.1. The City has determined the following licensing classification(s) for this contract:

- CLASS A

ATTACHMENT B

PHASED FUNDING PROVISIONS

PHASED FUNDING PROVISIONS

1. **PHASED FUNDING:**

1.1 For phased funded contracts, the City typically secures enough funds for the first 90 days of the contract prior to award. Within 10 Working Days after Bid opening date the Apparent Low Bidder must contact the Project Manager to discuss fund availability and the duration of the first phase and submit the Pre-Award Schedule to the City for approval and preparation of the first Phased Funding Schedule Agreement.

1.2 The Apparent Low Bidder will be required to provide a Pre-award Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT" prior to award of Contract.

1.3 If the Bid submitted by the Apparent Low Bidder is rejected by the City for any reason, then within 5 Working Days after receiving notice, the next Apparent Low Bidder must provide the Pre-Award Schedule. This process will continue until the City has selected the Apparent Low Bidder or have decided to reject all Bids.

1.4 The first Phased Funding Schedule Agreement must show the fund availability for the first phase. Within 22 Working Days from the date of the Bid Opening or notice to the next Apparent Low Bidder (whichever occurs last) and once a Pre-Award Schedule is accepted by the City, the City will present the first Phased Funding Schedule Agreement to you when you are selected as the Apparent Low Bidder as defined in the City's Municipal Code, §22.3003.

1.5 At the City's request, you must meet with the City's project manager before execution of the first Phased Funding Schedule Agreement to discuss his or her comments and requests for revision to the Pre-Award Schedule.

1.6 Your failure to perform the following may result in the Bid being rejected as **non-responsive:**

1. meet with the City's project manager, if requested to do so, to discuss and respond to the City's comments regarding the Pre-Award Schedule,

2. revise the Pre-Award Schedule as requested by the City within the specified 22 Working Days timeframe, or

3. execute the first Phased Funding Schedule Agreement within a day after receipt.

PHASED FUNDING SCHEDULE AGREEMENT

BID NUMBER: K-15-5176-DBB-3

CONTRACT OR TASK TITLE: University Ave Pipeline Replacement

CONTRACTOR: Burtech Pipeline Incorporated

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Project mobilization, site preparation, Tunneling, pipe installation	NTP	08/31/2015	$4,200,000.00
2	Pipe and valves installation, By-passes,Vault, and Lateral services construction	09/1/2015	8/31/2016	$8,381,596.00
3	Pipe and valves installation, curb ramps construction, paving and surface restorations, As-builts	9/1/2016	04/1/2018 Project Completion	$6,772,769.00
Total				$19,354,365.00

Notes:

(1) City Supplement 9-3.6, "PHASE FUNDING COMPENSATION" applies.
(2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
(3) This PHASE FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by a written modification to the CONTRACT.

OWNER: CITY OF SAN DIEGO

By: F. Michael Bafoua
Project Manager &
E&CP / Public Works Department

Date: 2-25-2015

CONTRACTOR: Burtech Pipeline Incorporation

By:
Dominic J. Burtech
President & CEO

Date: 2/24/2015

- END OF PHASE FUNDING SCHEDULE -

ATTACHMENT C

EQUAL OPPORTUNITY CONTRACTING PROGRAM

EQUAL OPPORTUNITY CONTRACTING PROGRAM

1. To The WHITEBOOK, Chapter 10, Sections D and E, DELETE each in its entirety, and SUBSTITUTE with the following:

D. CITY'S EQUAL OPPORTUNITY COMMITMENT.

1. Nondiscrimination in Contracting Ordinance.

1. The Contractor, Subcontractors and Suppliers shall comply with requirements of the City's Nondiscrimination in Contracting Ordinance, San Diego Municipal Code §§22.3501 through 22.3517.

   The Contractor shall not discriminate on the basis of race, gender, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers. The Contractor shall provide equal opportunity for subcontractors to participate in subcontracting opportunities. The Contractor understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment, or other sanctions.

   The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. Disclosure of Discrimination Complaints. As part of its Bid or Proposal, the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

3. Upon the City's request, the Contractor agrees to provide to the City, within 60 days, a truthful and complete list of the names of all Subcontractors and Suppliers that the Contractor has used in the past 5 years on any of its contracts that were undertaken within San Diego County, including the total dollar amount paid by the Contractor for each subcontract or supply contract.

4. The Contractor further agrees to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance, Municipal Code §§22.3501 through 22.3517. The Contractor understands and agrees that violation of this clause shall be considered a material breach of the Contract and may result in remedies being ordered against the Contractor up to and including contract termination, debarment and other sanctions for violation of the provisions of the Nondiscrimination in Contracting Ordinance. The Contractor further understands and agrees that the procedures, remedies and sanctions provided for in the Nondiscrimination in Contracting Ordinance apply only to violations of the Ordinance.

E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.

1. The Contractor, Subcontractors and Suppliers shall comply with the City's Equal Employment Opportunity Outreach Program, San Diego Municipal Code §§22.2701 through 22.2707.

   The Contractor shall not discriminate against any employee or applicant for employment on any basis prohibited by law. Contractor shall provide equal opportunity in all employment practices. Prime Contractor shall ensure their subcontractors comply with this program. Nothing in this section shall be interpreted to hold a prime contractor liable for any discriminatory practice of its subcontractors.

   The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05), within 10 Working Days after receipt by the Bidder of Contract forms to the City for approval as specified in the Notice of Intent to Award letter from the City.

3. If a Work Force Report is submitted, and the City determines there are under-representations when compared to County Labor Force Availability data, the selected Bidder shall submit an Equal Employment Opportunity Plan.

4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:

   1. The Contractor shall maintain a working environment free of discrimination, harassment, intimidation and coercion at all sites and in all facilities at which the Contractor's employees are assigned to work.

   2. The Contractor reviews its EEO Policy, at least annually, with all on-site supervisors involved in employment decisions.

   3. The Contractor disseminates and reviews its EEO Policy with all employees at least once a year, posts the policy statement and EEO posters on all company bulletin boards and job sites, and documents every dissemination, review and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.

   4. The Contractor reviews, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintains written documentation of these reviews.

   5. The Contractor discusses its EEO Policy Statement with subcontractors with whom it anticipates doing business, includes the EEO Policy Statement in its subcontracts, and provides such documentation to the City upon request.

6. The Contractor documents and maintains a record of all bid solicitations and outreach efforts to and from subcontractors, contractor associations and other business associations.

7. The Contractor disseminates its EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit, maintains files documenting these efforts, and provides copies of these advertisements to the City upon request.

8. The Contractor disseminates its EEO Policy to union and community organizations.

9. The Contractor provides immediate written notification to the City when any union referral process has impeded the Contractor's efforts to maintain its EEO Policy.

10. The Contractor maintains a current list of recruitment sources, including those outreaching to people of color and women, and provides written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.

11. The Contractor maintains a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.

12. The Contractor encourages all present employees, including people of color and women employees, to recruit others.

13. The Contractor maintains all employment selection process information with records of all tests and other selection criteria.

14. The Contractor develops and maintains documentation for on-the-job training opportunities, participates in training programs, or both for all of its employees, including people of color and women, and establishes apprenticeship, trainee, and upgrade programs relevant to the Contractor's employment needs.

15. The Contractor conducts, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourages all employees to seek and prepare appropriately for such opportunities.

16. The Contractor ensures the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

ATTACHMENT D

SAFE DRINKING WATER STATE REVOLVING FUND (SDWSRF)

FUNDING AGENCY PROVISIONS

FUNDING AGENCY PROVISIONS

IN THE EVENT THAT THESE REQUIREMENTS CONFLICT WITH THE CITY'S GENERAL EOC REQUIREMENTS, THE FUNDING AGENCY'S REQUIREMENTS WILL CONTROL.

1. NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246).

1.1. The goal and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, as follows:

		Goal
1.	Minority Participation:	16.9%
2.	Female Participation:	6.9%

1.2. These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs Work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the Work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both federally involved and non-federally involved Work.

1.3. The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals.

1.4. The hours of minority and female employment and training shall be substantially uniform throughout the length of the Contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the Contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

1.5. The Contractor shall provide written notification to the Director the Office of Federal Contract Compliance Programs within 10 Working Days of award of any Subcontract in excess of $10,000 at any tier for Work under the Contract resulting from this solicitation. The notification shall list the name, address and telephone number of the Subcontractor; employer identification number of the Subcontractor; estimated dollar amount of the Subcontract; estimated starting and completion dates of the Subcontract; and the geographical area in which the subcontract is to be performed. The "covered area" is the City of San Diego.

2. EQUAL OPPORTUNITY CLAUSES:

2.1. The following equal opportunity clauses are incorporated by reference herein:

1. The equal opportunity clause located 41 CFR 60.1.4(a), which specifies the obligations imposed under Executive Order 11246.

2. The equal opportunity clause located at 41 CFR 60-741.5, which contains the obligations imposed by Section 503 of the Rehabilitation Act of 1973.

3. The "Equal Opportunity Clause" (Resolution No. 765092) filed on December 4, 1978, in the Office of the City Clerk, San Diego, California and incorporated in the "Standard Federal Employment Opportunity Construction Contract Specifications (Executive Order 11246 - Document No. 769023, filed September 11, 1984, in the Office of the City Clerk, San Diego, California) is applicable to all non-exempt City construction contracts and subcontracts of $2,000 or more.

4. Age Discrimination Act of 1975, Pub. L. 94-135.

5. Title VI of the Civil Rights Act of 1964, Pub. L. 88-352.

6. Section 13 of the Federal Water Pollution Control Acts Amendments of 1972, Pub. L. 92-5200 (the Clean Water Act).

7. Section 504 of the Rehabilitation Act of 1973, Pub. L. 93-112 (Executive Orders 11914 and 11250).

8. Women's Minority Business Enterprises, Executive Orders 11625, 12138 and 12432.

9. Section 129 of the Small Business Administration Reauthorization and Amendment Act of 1988, Pub. L. 100-590.

3. STANDARD FEDERAL EQUAL EMPLOYMENT SPECIFICATIONS:

3.1. The Contractor is required to comply with the 16 "Standard Federal Equal Employment Specifications" located at 41 CFR 60-4.3 for federal and federally-assisted construction contracts in excess of $10,000, set forth below.

3.2. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions The Contractor shall document these efforts fully, and shall implement affirmative actions steps at least as extensive as the following:

1. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign 2 or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

2. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

3. Maintain a current file of the names, addresses and telephone numbers of each minority and female walk-in applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the

Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

4. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

5. Develop on-the-job training opportunities, participate in training programs for the area, or both which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under C.1. above.

6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreements; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

7. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignments, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as superintendents, foreman, etc., prior to the initiation of Work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and dispositions of the subject matter.

8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

9. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

10. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

11. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

12. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

13. Ensure that seniority practices, job classifications, work assignments and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

14. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

15. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

16. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

4. VIOLATION OR BREACH OF REQUIREMENTS:

4.1. If at any time during the course of the Contract there is a violation of the Affirmative Action or Equal Employment Opportunity requirements by the Contractor, or the Subcontractors, the City will notify the Contractor of the breach. The City may withhold any further progress payments to the Contractor until the City is satisfied that the Contractor and Subcontractors are in full compliance with these requirements.

5. MONTHLY EMPLOYMENT UTILIZATION REPORTS:

5.1. Refer to GENERAL EQUAL OPPORTUNITY CONTRACTING PROGRAM REQUIREMENTS, CONSTRUCTION CONTRACTOR REQUIREMENTS in The WHITEBOOK and the following:

1. State of California Department of Transportation Payroll Report. Due to the City weekly.

2. Federal and Non-Federal Work in San Diego County. Submit an updated list only if work is complete or new contracts have been awarded during the span of this project.

6. RECORDS OF PAYMENTS TO DBEs:

6.1. The Contractor shall maintain records and documents of payments to DBEs for 5 years following the NOC. These records shall be made available for inspection upon request by any authorized representative of the City, DOT, or both. The reporting requirement shall be extended to any certified DBE Subcontractor.

7. PREVAILING WAGE RATES: Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding $25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding $15,000, the

Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.

7.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.

7.2. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.

7.3. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.

7.4. **Penalties** for **Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed.

7.5. **Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.

7.6. **Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor shall be held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.

7.7. **Working Hours.** Contractor and subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay;

and (ii) specify penalties to be imposed on design professionals and subcontractors of $25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections1810 through 1815.

7.8. **Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.

7.9. **Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."

7.10. **Labor Compliance Program.** The City has its own Labor Compliance Program as authorized by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred.

8. FEDERAL WAGE REQUIREMENTS FOR FEDERALLY FUNDED PROJECTS:

8.1. The successful Bidder's work shall be required to comply with Executive Order 11246, entitled "Equal Employment Opportunity,", as amended by Executive Order 11375, and as supplemented in Department of Labor regulations (41 CFR chapter 60).

8.2. This Executive Order pertains to Equal Employment Opportunity regulations and contains significant changes to the regulations including new goals and timetables for women in construction and revised goals and time-tables for minorities in construction.

8.3. Minimum wage rates for this project have been predetermined by the Secretary of Labor and are set forth in the Decision of the Secretary and bound into the specifications book. Should there be any difference between the state or federal wage rates, including health and welfare funds for any given craft, mechanic, or similar classifications needed to execute the Work, it shall be mandatory upon the Contractor or subcontractor to pay the higher of the two rates.

8.4. The minimum wage rate to be paid by the Contractor and the Subcontractors shall be in accordance with the Federal Labor Standards Provisions (see pages below) and Federal Wage Rates (see Wage Rates below) and General Prevailing Wage Determination made by the State of California, Director of Industrial Relations pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773 and 1773.1, whichever is higher.

8.5. A Contractor having 50 or more employees and its Subcontractors having 50 or more employees and who may be awarded a contract of $50,000 or more will be required to maintain an affirmative action program, the standards for which are contained in the specifications.

8.6. To be eligible for award, each Bidder shall comply with the affirmative action requirements which are contained in the specifications.

8.7. Women will be afforded equal opportunity in all areas of employment. However, the employment of women shall not diminish the standards of requirements for the employment of minorities.

9. **WAGE RATES**. This contract shall be subject to the following Davis-Bacon Wage Decisions:

General Decision Number: CA140001 07/25/2014 CA1

Superseded General Decision Number: CA20130001

State: California

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	01/03/2014
1	01/10/2014
2	01/24/2014
3	02/21/2014
4	05/09/2014
5	05/23/2014
6	05/30/2014
7	06/20/2014
8	07/04/2014
9	07/11/2014
10	07/18/2014
11	07/25/2014

* ASBE0005-002 06/30/2014

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems)	$ 35.44	19.36
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls)	$ 24.34	16.09

ASBE0005-004 06/24/2013

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)	$ 16.95	10.23

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER	$ 41.17	28.27

BRCA0004-008 05/01/2014

	Rates	Fringes
BRICKLAYER; MARBLE SETTER	$ 34.10	15.05

BRCA0018-004 06/01/2014

	Rates	Fringes
MARBLE FINISHER	$ 28.45	11.38
TILE FINISHER	$ 23.78	9.84
TILE LAYER	$ 35.14	14.33

BRCA0018-010 09/01/2013

	Rates	Fringes

```
TERRAZZO FINISHER.....$ 26.59           10.34
TERRAZZO WORKER/SETTER.....$ 33.63      11.13
------------------------------------------------------------
 CARP0409-002 07/01/2008

                                  Rates          Fringes

Diver
     (1) Wet.....$ 663.68            9.82
     (2) Standby.....$ 331.84        9.82
     (3) Tender.....$ 323.84         9.82
     (4) Assistant Tender.....$ 299.84  9.82

Amounts in "Rates' column are per day
------------------------------------------------------------
 CARP0409-008 08/01/2010

                                  Rates          Fringes

Modular Furniture Installer.....$ 17.00          7.41
------------------------------------------------------------
 CARP0547-001 07/01/2009

                                  Rates          Fringes

CARPENTER
     (1)  Bridge.....$ 37.28         10.58
     (2)  Commercial Building....$ 32.30  10.58
     (3)  Heavy & Highway.....$ 37.15  10.58
     (4)  Residential Carpenter..$ 25.84  10.58
     (5)  Residential
     Insulation Installer.....$ 18.00  8.16
MILLWRIGHT.....$ 37.65          10.58
PILEDRIVERMAN.....$ 37.28       10.58
------------------------------------------------------------
 CARP0547-002 07/01/2009

                                  Rates          Fringes

Drywall
     (1) Work on wood framed
     construction of single
     family residences,
     apartments or condominiums
     under four stories
      Drywall Installer/Lather...$ 21.00  8.58
      Drywall Stocker/Scrapper...$ 11.00  6.67
     (2) All other work
      Drywall Installer/Lather...$ 27.35  9.58
      Drywall Stocker/Scrapper...$ 11.00  6.67
------------------------------------------------------------
 ELEC0569-001 06/02/2014

                                  Rates          Fringes

Electricians (Tunnel Work)
```

```
     Cable Splicer..............$ 44.91         3%+11.87
     Electrician................$ 44.16         3%+11.87
Electricians: (All Other
Work, Including 4 Stories
Residential)
     Cable Splicer..............$ 40.00         3%+11.87
     Electrician................$ 39.25         3%+11.87
----------------------------------------------------------------
 ELEC0569-005 06/01/2014

                                  Rates          Fringes

Sound & Communications
     Sound Technician...........$ 27.87         3%+10.81
     Soundman...................$ 22.30          3%+9.17

  SOUND TECHNICIAN: Terminating, operating and performing
  final check-out

  SOUNDMAN: Wire-pulling, splicing, assembling and  installing
  devices

  SCOPE OF WORK Assembly, installation, operation, service and
  maintenance of components or systems as used in closed
  circuit television, amplified master television
  distribution, CATV on private property, intercommunication,
  burglar alarm, fire alarm, life support and all security
  alarms, private and public telephone and related telephone
  interconnect, public address, paging, audio, language,
  electronic, background music system less than line voltage
  or any system acceptable for class two wiring for private,
  commercial, or industrial use furnished by leased wire,
  frequency modulation or other recording devices, electrical
  apparatus by means of which electricity is applied to the
  amplification, transmission, transference, recording or
  reproduction of voice, music, sound, impulses and video.
  Excluded from this Scope of Work - transmission, service
  and maintenance of background music.  All of the above
  shall include the installation and transmission over fiber
  optics.

----------------------------------------------------------------
 ELEC0569-006 10/17/2013

Work on street lighting; traffic signals; and underground
systems and/or established easements outside of buildings

                                  Rates          Fringes

Traffic signal, street light
and underground work
     Utility Technician #1.....$ 28.00          3%+7.42
     Utility Technician #2.....$ 23.15          3%+7.42

STREET LIGHT & TRAFFIC SIGNAL WORK:
```

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

ELEC0569-008 06/03/2013

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories)	$ 22.37	3%+3.30

ELEC1245-001 06/01/2013

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer	$ 50.30	15.00
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment)	$ 40.17	14.56
(3) Groundman	$ 30.73	13.48
(4) Powderman	$ 44.91	13.48

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

---

ELEV0018-001 01/01/2014

	Rates	Fringes
ELEVATOR MECHANIC	$ 49.03	26.785

FOOTNOTE:
PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day,

Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

ENGI0012-003 07/07/2014

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1	$ 39.05	22.25
GROUP 2	$ 39.83	22.25
GROUP 3	$ 40.12	22.25
GROUP 4	$ 41.61	22.25
GROUP 5	$ 41.86	22.25
GROUP 6	$ 41.83	22.25
GROUP 8	$ 41.94	22.25
GROUP 9	$ 42.19	22.25
GROUP 10	$ 42.06	22.25
GROUP 11	$ 42.31	22.25
GROUP 12	$ 42.23	22.25
GROUP 13	$ 42.33	22.25
GROUP 14	$ 42.36	22.25
GROUP 15	$ 42.44	22.25
GROUP 16	$ 42.56	22.25
GROUP 17	$ 42.73	22.25
GROUP 18	$ 42.83	22.25
GROUP 19	$ 42.94	22.25
GROUP 20	$ 43.06	22.25
GROUP 21	$ 43.23	22.25
GROUP 22	$ 43.33	22.25
GROUP 23	$ 43.44	22.25
GROUP 24	$ 43.56	22.25
GROUP 25	$ 43.73	22.25
OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting)		
GROUP 1	$ 40.40	22.25
GROUP 2	$ 41.18	22.25
GROUP 3	$ 41.47	22.25
GROUP 4	$ 41.61	22.25
GROUP 5	$ 41.83	22.25
GROUP 6	$ 41.94	22.25
GROUP 7	$ 42.06	22.25
GROUP 8	$ 42.23	22.25
GROUP 9	$ 42.40	22.25
GROUP 10	$ 43.40	22.25
GROUP 11	$ 44.40	22.25
GROUP 12	$ 45.40	22.25
GROUP 13	$ 46.40	22.25
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1	$ 40.90	22.25
GROUP 2	$ 41.68	22.25
GROUP 3	$ 41.97	22.25
GROUP 4	$ 42.11	22.25

GROUP 5.....$ 42.33 22.25
GROUP 6.....$ 42.44 22.25
GROUP 7.....$ 42.56 22.25

PREMIUM PAY:
$3.75 per hour shall be paid on all Power Equipment Operator work on the followng Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: $2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel

Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter(concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary

drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bendng machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving

equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote- control earth-moving equipment operator (operating a second piece of equipment: $1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds.and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem

(scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDRIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar

types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along

south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point whch is the SW corner of Section 34.T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the

California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

ENGI0012-004 08/05/2013

	Rates	Fringes
OPERATOR: Power Equipment (DREDGING)		
(1) Leverman	$ 47.70	21.20
(2) Dredge dozer	$ 41.73	21.20
(3) Deckmate	$ 41.62	21.20
(4) Winch operator (stern winch on dredge)	$ 41.07	21.20
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand	$ 40.53	21.20
(6) Barge Mate	$ 41.14	21.20

IRON0377-002 07/01/2013

	Rates	Fringes
Ironworkers:		
Fence Erector	$ 26.58	17.74
Ornamental, Reinforcing and Structural	$ 33.00	26.30

PREMIUM PAY:

$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,
Edwards AFB, Fort Irwin Military Station, Fort Irwin Training

Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0089-001 07/01/2013

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1	$ 26.98	15.42
Group 2	$ 27.66	15.42
Group 3	$ 28.37	15.42
Group 4	$ 29.17	15.42
Group 5	$ 31.10	15.42
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer	$ 24.88	13.75
(2) Cleanup, Landscape, Fencing (Chain Link & Wood)	$ 23.59	13.75

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man,

top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer,
packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettlemen, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and inclduing rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of oepration, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No

joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all pwder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER)	$ 27.98	13.39

LABO0089-004 07/01/2013

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1	$ 26.98	15.42
Group 2	$ 27.66	15.42
Group 3	$ 28.37	15.42
Group 4	$ 29.17	15.42
Group 5	$ 31.10	15.42

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber,Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete

curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/'2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter,Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting,m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prfefabricated Manhole Installer, Sandblast Nozzleman (Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes,

placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 01/01/2014

	Rates	Fringes
Asbestos Removal Laborer	$ 28.00	15.25

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO1184-001 07/01/2014

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer	$ 31.65	13.33
(2) Vehicle Operator/Hauler	$ 31.82	13.33
(3) Horizontal Directional Drill Operator	$ 33.67	13.33
(4) Electronic Tracking Locator	$ 35.67	13.33
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1	$ 32.56	16.28
GROUP 2	$ 33.86	16.28
GROUP 3	$ 35.87	16.28
GROUP 4	$ 37.61	16.28

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method

(sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

---

LABO1414-003 08/07/2013

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER	$ 27.45	16.36
PLASTER TENDER	$ 30.00	16.36

Work on a swing stage scaffold: $1.00 per hour additional.

Work at Military Bases - $3.00 additional per hour:
Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2014

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County)	$ 26.89	12.28
(2) All Other Work	$ 30.27	12.28

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries,

commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 01/01/2014

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction	$ 25.69	13.79
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories)	$ 21.00	13.41

PAIN0036-012 10/01/2013

	Rates	Fringes
GLAZIER	$ 38.80	17.25

PAIN0036-019 07/01/2013

	Rates	Fringes
SOFT FLOOR LAYER	$ 26.77	12.50

PLAS0200-005 08/07/2013

	Rates	Fringes
PLASTERER	$ 36.11	13.13

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: $3.00 additional per hour.

PLAS0500-001 07/01/2014

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1	$ 22.29	17.10
GROUP 2	$ 23.94	17.10
GROUP 3	$ 26.57	17.25

CEMENT MASONS - work inside the building line, meeting the following criteria:

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction;

interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 07/01/2014

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton	$ 49.21	20.36
Plumber and Pipefitter All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work	$ 44.71	20.36
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space	$ 43.33	19.38
Work ONLY on strip malls, light commercial, tenant improvement and remodel work	$ 34.59	17.71

PLUM0016-011 07/01/2014

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential	$ 36.15	16.28

PLUM0345-001 07/01/2014

	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter	$ 29.27	19.75
Sewer & Storm Drain Work	$ 33.24	17.13

ROOF0045-001 07/01/2012

	Rates	Fringes

ROOFER.....$ 25.08 7.28

SFCA0669-001 07/01/2013

	Rates	Fringes
SPRINKLER FITTER	$ 34.86	18.66

SHEE0206-001 01/01/2012

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton	$ 35.05	19.23
Except Camp Pendleton	$ 33.05	19.23
Sheet Metal Technician	$ 25.22	6.69

SHEET METAL TECHNICIAN - SCOPE:
a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system b. New single family residential buildings including tracts. c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under $1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

---

TEAM0036-001 07/01/2012

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 15.40	20.50
GROUP 2	$ 24.99	20.50
GROUP 3	$ 25.19	20.50
GROUP 4	$ 25.39	20.50
GROUP 5	$ 25.59	20.50
GROUP 6	$ 26.09	20.50
GROUP 7	$ 27.59	20.50

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed,Concrete Pumping

Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union

number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISION

10. FEDERAL LABOR STANDARDS PROVISIONS (Office of the Secretary of Labor 29 CFR 5):

Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

A. 1. Minimum Wages. (i) All laborers and mechanics employed or working upon the site of the work, (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project) will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section l(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.

(ii) (A) Any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The Federal Agency or its designee shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The

Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding. The Federal Agency or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the Federal Agency or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records. (i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of 3 years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section l(b)(2)(B) of the Davis-bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the

amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section l(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Agency or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to the Federal Agency or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i) except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired.

Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at

http://www.dol.gov/esa/whd/forms/wh347instr.htm

or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the Federal Agency or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to the Federal Agency , the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this subparagraph for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or, owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5 (a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph A.3.(ii)(b)of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under subparagraph A.3.(i) of this section available for inspection, copying, or transcription by authorized representatives of the Federal Agency or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, Federal agency or its designee may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees. (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination.

Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant ‘,to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee’s level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract

6. Subcontracts. The contractor or subcontractor will insert in any subcontracts the clauses contained in 29 CFR 5.59(a)(1) through (10 and such other clauses as the Federal Agency may by appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. (i) Certification of Eligibility. By entering into this contract the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1)..

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

b. Contract Work Hours and Safety Standards Act. The provisions of this paragraph b are applicable where the amount of the prime contract exceeds $100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in subparagraph (b)(1) of this section, the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (b)(1) of this paragraph, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in sub paragraph (b)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The Federal Agency or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (b)(1) through (4) of this section.

C. In addition to the clauses contained in paragraph (b), in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in Sec. 5.1, the Agency Head shall cause or require the contracting officer to insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall

preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Agency Head shall cause or require the contracting officer to insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

11. AGENCY SPECIFIC PROVISIONS:

Note: Failure to comply with these specifications e.g., taking the specified steps prior to Bid opening, and to submit the forms located in Volume 2 with the Bid will lead to the Bid being declared **non-responsive** and, therefore, shall be rejected.

11.1. <u>All EPA Funded Contracts:</u>

1. Federal Disadvantaged Business Enterprise (DBE) regulations apply to this project. (Reference 40 Code of Federal Regulations Part 33 - Participation by Disadvantaged Business Enterprises in U.S. Environmental Protection Agency Programs).
2. The responsive Bid shall conform to GFE to increase DBE awareness of procurement opportunities through race and gender neutral efforts. Race and gender neutral efforts are ones which increase awareness of contracting opportunities in general, including outreach, recruitment and technical assistance.
3. Bidder agrees that it will cooperate with and assist the City in fulfilling the DBE Good Faith Effort Requirement achieving "fair share objectives" and will exercise GFE to achieve such minimum participation of small, minority and women owned businesses. In particular, in submitting a bid, the Bidder shall, in the selection of Subcontractors, and Suppliers for the procurement of equipment, supplies, construction, and services related to the project, at a minimum, undertake the affirmative GFE steps.
4. In accordance with EPA's Program for Utilization of Small, Minority Disadvantaged and Women Business Enterprises in procurement under Federal assistance programs, the Contractor agrees to the applicable "fair share objectives" as specified in the "Special Notice" page.
5. The provisions in the Contract Documents have been incorporated to prevent unfair practices that adversely affect DBEs.
6. If a DBE Subcontractor fails to complete the Work under the subcontract for any reason, the Contractor shall employ the 6 GFE if soliciting a replacement Subcontractor. The Contractor shall employ the 6 GFE described below even if the Contractor has achieved its fair share objectives.
7. Good Faith Efforts:
    a) The Contractor shall demonstrate that efforts were made to attract DBEs on this contract. The "Good Faith" effort requires the

Contractor and any Subcontractors to take the steps listed in these specifications to assure that DBEs are used whenever possible as sources of supplies, construction, equipment, or services even if the Contractor has achieved its fair share objectives.

b) If the Contractor awards subcontracts, it shall require the Subcontractors to take the steps in these specifications.

c) For the EPA defined GFE, see the steps below:

1. Ensure DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Indian Tribal, State and Local and Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.

2. Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes, whenever possible, posting solicitations for bids or proposals for a minimum of 30 days before the bid or proposal closing date.

3. Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Indian Tribal, State and local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process. Include with the GFE documentation a completed copy of the form AA61, "List of Work Made Available."

4. Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.

5. Use the services and assistance of the U.S. Small Business Administration (SBA) and the Minority Business Development Agency (MDBA) of the Department of Commerce (DOC). See "DBE Potential Resources Centers" Section in a later part these specifications.

6. If the Contractor awards Subcontracts, the Contractor shall take the steps in paragraphs (1) through (5) above.

11.1.1. <u>Safe Drinking Water State Revolving Fund (SDWSRF) Contracts:</u>

11.1.2. For contracts subject to SDWSRF, refer to Subsection 11.1, "All EPA Funded Contracts" above and the following:

1. Each Bid shall include submission of Disadvantaged Business Enterprise Information Form, identifying each proposed Subcontractor and Supplier for the Project.

2. Using the Disadvantaged Business Enterprise Information Form, the Bidder shall provide the following information for each proposed Subcontractor and Supplier:

    1. firm's name;
    2. contact person;
    3. entity's mailing address,
    4. telephone number;
    5. e-mail address;
    6. the procurement on which the proposed Subcontractor and Supplier quoted, and when; and
    7. proposed Subcontractor and Supplier status as a DBE or non-DBE.

3. The Apparent Low Bidder shall submit documentation showing that, prior to Bid opening, the required GFE were made. The documentation shall be received by the City within **4 Working Days** following Bid opening, except the Disadvantaged Business Enterprise Information Form, which is to be submitted with the Bid. Failure to submit Disadvantaged Business Enterprise Information Form with the Bid will cause the Bid to be rejected as **non-responsive.**

4. If the Apparent Low Bidder is rejected or considered as non-responsible or has any non-responsive low DBE Subcontractor, a complete explanation must be provided to the City.

5. Using the Verification of Qualification form below, Apparent Low Bidder shall provide evidence of certification by a federal, state, or local government entity for each DBE firm to be utilized. Such certification documentation shall be submitted within **4 Working Days** following bid opening.

6. If additional procurement becomes necessary after the Award of the Contract, the GFE shall be applied, and, if DBE Subcontracts are awarded, Verification of Qualification shall be provided to the City by the Contractor within **10 Working Days** following the award of each new Subcontract.

7. Any deviation from the information contained in Disadvantaged Business Enterprise Information Form shall not result in a reduction of DBE participation without prior approval of the City.

8. Failure of the Apparent Low Bidder to perform the 6 affirmative GFE steps prior to Bid opening, to submit Disadvantaged Business Enterprise Information Form with its bid, or both will lead to Bid being declared **non-responsive**. The City may then award the contract to the next low responsive, responsible Bidder meeting the requirements of these contract provisions.

9. The Contractor shall provide each proposed Subcontractor and Supplier copies of EPA Form 6100-2 and EPA Form 6100-3.

10. See "DBE Potential Resources Centers" Section in a later part these specifications.

11.1.3. <u>Semiannual DBE Utilization Reporting:</u>

The Contractor shall report to the City on a semiannual basis, their utilization of Minority Business Enterprise and Women's Business Enterprise Subcontractors and Suppliers using EPA Form 5700-52A.

12. DBE POTENTIAL RESOURCES CENTERS:

12.1. Utilization of SBA and MBDA resources is required at no cost. These agencies offer several services, including Internet access to databases of DBEs.

12.2. For additional assistance, the recipient or contractor can telephone the local offices of both agencies in their area (SBA Minority Enterprise Development Offices and DOC MBDA Regional Centers). The Internet web sites also include names, addresses, and phone or fax numbers of local SBA and MBDA centers. Do not write to these sources

12.3. The Contractor shall provide documentation that the local SBA/MBDA offices or web sites were notified of the contracting bid opportunity at least 15 Working Days prior to Bid opening and solicitation to DBE subcontractors at least 10 Working Days prior to Bid opening. Documentation shall not only include the efforts to contact the information sources and list the Contract opportunity, but also the solicitation and response to the bid request.

12.4. Include qualified DBEs on solicitation lists and record the information on Form AA63. Solicitation shall be as broad as possible. The following web sites include a list of available sources for expanding the search for eligible DBEs:

12.4.1. http://www.sba.gov
12.4.2. http://www.ccr.gov
12.4.3. http://www.mbda.gov

12.5. If DBE sources are not located, explain why and describe the efforts made.

12.6. The Contractor shall send invitations to at least 3 (or all, if less than 3) DBE vendors for each item of work referred by sources contacted. The invitations shall adequately specify the items for which bids are requested. The record of "good faith" efforts shall indicate a real desire for a positive response, such as a certified mail receipt or a documented telephone conversation.

12.7. A regular letter or an unanswered telephone call is not an adequate "good faith" effort. A list of all sub-bidders, including the bidders not selected and non DBE Subcontractors, and bid amount for each item of the Work shall be submitted on Form AA62. If a low bid was not accepted, an explanation shall be provided.

12.8. Federal Agencies (must be contacted and solicitations posted on their websites):

Name and Address	Telephone and Web Site
U.S. Small Business Administration	(415) 744-6820 Extension 0
455 Market Street, Suite 600	PRO-Net Database: http://www.ccr.gov/[1]
San Francisco, CA 94105	Bid Notification: http://web.sba.gov/subnet/[2]
RE: Minority Enterprise Development Offices	
U.S. Department of Commerce	(415) 744-3001
Minority Business Development Agency	Phoenix/ Opportunity Database:
211 Main Street, Room 1280	http://www.mbda.gov[3]
San Francisco, CA 94105	RE: Business Development Centers

12.9. State Agencies (must be contacted):

Name and Address	Telephone and Web Site
California Department of Transportation	Mailing Address: PO Box 942874
(CALTRANS) Business Enterprise Program[4]	Sacramento, CA 94274-0015
1820 Alhambra Blvd.	(916) 227-9599
Sacramento, CA 95816	www.dot.ca.gov/hq/bep
CA Public Utilities Commission (CPUC)[5]	
505 Van Ness Avenue	http://www.cpuc.ca.gov/static/supplierdiversity
San Francisco, CA 94102-3298	

Notes:

1. PRO-Net new database is the SBA's electronic search engine that was put on line January 1, 2004, containing business profiles for nearly 200,000 businesses. The SBA requests Internet contact only for a list of potential DBE subcontractors that can be downloaded from PRO-Net: http://www.ccr.gov. Downloading will verify that the prime contractor made the required contact with the SBA. Provide copy of search records with GFE documentation.
2. The Contractor shall use SUB-Net to post subcontracting opportunities. The Contractor shall post Subcontractor opportunities at least 15 Working Days prior to bid opening. Small businesses can review this web site to identify opportunities in their areas of expertise. The web site is designed primarily as a place for large businesses to post solicitations and notices. Provide copy of the Display Solicitation Record with the GFE documentation.
3. The Contractors shall use MBDA web portal to post subcontracting opportunities. The Contractor shall post subcontractor opportunities at least 15 Working Days prior to Bid opening. Small businesses can review this web site to identify opportunities in their areas of expertise. The web site is designed primarily as a place for large businesses to post solicitations and notices. Provide copy of the Offer Overview with the GFE documentation.
4. Based on the federal DBE program, CALTRANS maintains a database and provides directories of minority and woman-owned firms. Provide copy of search records with GFE documentation.
5. CPUC maintains a database of DBE-owned business enterprises and serves to inform the public. Provide copy of search records with GFE documentation.

13. GOOD FAITH EFFORT DOCUMENTATION SUBMITTALS:

13.1. The affirmative GFE steps documentation shall be submitted **within 4 Working Days of the Bid Opening**. If this documentation is not submitted when due, the City will declare the Bid **non-responsive** and reject it.

13.2. The required documentation shall be submitted and logged in at the following address:

CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101
SUBJECT: AFFIRMATIVE GOOD FAITH EFFORT DOCUMENTATION
BID NO.: **K-15-5716-DBB-3**

13.3. The Contractor shall maintain the records documenting compliance with requirements including documentation of its GFE and data relied upon in formulating its fair share objectives.

14. FORMS:

14.1. The Contractor shall demonstrate that efforts were made to attract DBEs on this contract. The Contractor and Subcontractors shall take the steps listed in these specifications to assure that DBEs are used whenever possible as sources of supplies, construction, equipment, or services. In addition to the specified GFE documentation, the Bidder shall submit the following forms:

14.1.1. VOLUME 1 FORMS - The following forms in Volume 1 shall be completed and submitted within **4 Working Days of the Bid opening**. Failure to include any of the forms shall cause the Bid to be deemed **non-responsive**.

1. EPA FORM 6100-2 DBE Subcontractor Participation Form
2. SDWSRF DBE Information Form
3. SDWSRF Verification of Qualification
4. Form AA61 List of Work Made Available
5. Form AA62 Summary of Bids Received
6. Form AA63 Good Faith Effort List of Subcontractors Solicited

14.1.2. VOLUME 2 FORMS - See EPA forms 6100-2, 6100-3, and 6100-4 for additional required information to comply with EPA requirements. These forms are included in the Contract Documents or shall be obtained from: http://www.epa.gov/osbp/dbe_forms.htm. The following EPA forms in Volume 2 **shall be completed and submitted with the Bid**. Failure to include any of the forms shall cause the Bid to be deemed **non-responsive**.

1. EPA FORM 6100-3 DBE Subcontractor Performance Form
2. EPA FORM 6100-4 DBE Subcontractor Utilization Form

FUNDING AGENCY PROVISIONS

FORMS

OMB Control No.: 2090-0030
Approved: 08/13/2013
Approval Expires: 08/31/2015

United States Environmental Protection Agency

Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Participation Form

An EPA Financial Assistance Agreement Recipient must require its prime contractors to provide this form to its DBE subcontractors. This form gives a DBE[1] subcontractor[2] the opportunity to describe work received and/or report any concerns regarding the EPA-funded project (e.g., in areas such as termination by prime contractor, late payments, etc.). The DBE subcontractor can, as option, complete and submit this form to the EPA DBE Coordinator at any time during the project period of performance.

Subcontractor Name	Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact
Address		
Telephone No.	Email Address	
Prime Contractor Name	Issuing/Funding Entity:	

Contract Item Number	Description of Work Received from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Amount Received by Prime Contractor

[1] A DBE is a Disadvantage, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

EPA FORM 6100-2 (DBE Subcontractor Participation Form)

OMB Control No.: 2090-0030
Approved: 08/13/2013
Approval Expires: 08/31/2015

United States Environmental Protection Agency

Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Participation Form

Please use the space below to report any concerns regarding the above EPA-funded project:

Subcontractor Signature	Print Name
Title	**Date**

The public reporting and recordkeeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

EPA FORM 6100-2 (DBE Subcontractor Participation Form)

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
SAFE DRINKING STATE REVOLVING FUND PROGRAM
MBE/WBE UTILIZATION
FOR COMPLIANCE WITH
FEDERAL SDWSRF REQUIREMENTS

PART I. (Reports are required even if no procurements are made during the reporting period.)

1A. FEDERAL FISCAL YEAR 20_____	1B. REPORTING PERIOD (Check ALL appropriate boxes) ☐ 1st (Oct-Dec) ☐ 2nd (Jan-Mar) ☐ 3rd (Apr-Jun) ☐ 4th (Jul-Sep) ☐ Annual ☐ Check if this is the last report for the project (Project completed).
1C. REVISION OF A PRIOR REPORT? ☐Yes ☐No Year: _____ Quarter: _____	BRIEFLY DESCRIBE THE REVISIONS YOU ARE MAKING:

2A. SUBMIT REPORT TO: Safe Drinking Water State Revolving Fund Program MBE/WBE Coordinator (MS 7418) 1616 Capitol Avenue P.O. Box 997413 Sacramento, CA 95899-7413		3A. SDWSRF FUNDING RECIPIENT NAME AND ADDRESS 3B. SDWSRF FUNDING AGREEMENT NUMBER:	
2B. STATE CONTACT Mally Vue (mally.vue@cdph.ca.gov)	2C. PHONE/FAX: (916) 449-5600 (916) 449-5656	3C. RECIPIENT REPORTING CONTACT: Name: E-mail:	3D. PHONE: Fax:

4A. TOTAL SDWSRF FUNDING ASSISTANCE AMOUNT SDWSRF LOAN: $_____ SDWSRF GRANT: $_____	4B. If **NO procurement and NO accomplishments** were made this reporting period, check and skip to Block No. 7. (Procurements are all expenditures through contract, order, purchase, lease or barter of supplies, equipment, construction, or services needed to complete Federal assistance programs. Accomplishments, in this context, are procurements made with MBEs and/or WBEs. ☐

4C. **Total Procurements and MBE/WBE Accomplishments This Reporting Period**
(Only include amount not reported in any prior reporting period)

Were procurements made under this SDWSRF funding assistance during this reporting period? Yes ☐ No ☐
Total procurement made with SDWSRF funding assistance during this reporting period: Amount $_____
Actual MBE/WBE Accomplishment with SDWSRF funding assistance during this reporting period:

	Construction	Equipment	Services	Supplies	Total
$MBE:	$_____	$_____	$_____	$_____	$_____
$WBE:	$_____	$_____	$_____	$_____	$_____

5. COMMENTS: (If no MBE/WBE procurements were accomplished during the reporting period, please explain what steps you are taking to achieve the MBE/WBE Program requirements specified in the terms and conditions of the Assistance Agreement.)

7. NAME OF RECIPIENT'S AUTHORIZED REPRESENTATIVE	TITLE
8. SIGNATURE OF RECIPIENT'S AUTHORIZED REPRESENTATIVE	DATE

Use for EPA FORM 5700-52A

CDPH SDWSRF
MBE/WBE UTILIZATION REPORT
FOR COMPLIANCE WITH FEDERAL SDWSRF FUNDING REQUIREMENTS

A. WATER SYSTEM NAME:	B. PROJECT TITLE	C. SDWSRF LOAN NUMBER	D. CLAIMS SUBMITTED From _____ (date) to _____ (date)

1. Procurement Made By		2. Business Enterprise		3. $ Value of Procurement	4. Date of Award:	5. Type of Product or Services (Enter Code)	6. MBE/WBE Contractor or Subcontractor/Vendor Firm/Contact/Phone
Water System	Contractor	Minority	Women				
							FIRM CONTACT ADDR CITY/ZIP PH:
							FIRM CONTACT ADDR CITY/ZIP PH:
							FIRM CONTACT ADDR CITY/ZIP PH:
							FIRM CONTACT ADDR CITY/ZIP PH:
							FIRM CONTACT ADDR CITY/ZIP PH:
							FIRM CONTACT ADDR CITY/ZIP PH:

Type of product or service codes			
1 = Construction	2 = Supplies	3 = Services	4 = Equipment

Note: Refer to Terms and conditions of your Assistance Agreement to determine the frequency of reporting. Recipients are required to submit MBE/WBE reports to EPA beginning with the Federal fiscal year quarter the recipients receive the award, continuing until the project is completed.

CDPH MBE/WBE UTILIZATION FORM (Use for EPA 5700-52)

DISADVANTAGED BUSINESS ENTERPRISE INFORMATION FORM

WATER SYSTEM NAME:	**WATER SYSTEM NUMBER-PROJECT NUMBER**:.
PROJECT DESCRIPTION:	**PROJECT LOCATION**:

PRIME CONTRACTOR INFORMATION

NAME/ADDRESS: Name of firm Contact person Address, City, Zip Phone Email ☐ **DBE** ☐ **MBE** ☐ **WBE** ☐ **OTHER**	**TYPE OF CONTRACT** ☐ ARCHITECT/ENGINEER(A/E) ☐ CONSTRUCTION ☐ SUPPLIER/SERVICE (S/S) **AMOUNT OF CONTRACT/BID:** **$**

SUBCONTRACTOR INFORMATION

☐ **DBE** ☐ **MBE** ☐ **WBE** ☐ **OTHER** ☐ SUBCONTRACTOR ☐ SUPPLIER/SERVICE ☐ JOINT VENTURE ☐ BROKER **TYPE OF CONTRACT** **CONTRACT AMOUNT $**	**NAME /ADDRESS**: Name of firm Contact person Address, City, Zip Phone Email
☐ **DBE** ☐ **MBE** ☐ **WBE** ☐ **OTHER** ☐ SUBCONTRACTOR ☐ SUPPLIER/SERVICE ☐ JOINT VENTURE ☐ BROKER **TYPE OF CONTRACT** **CONTRACT AMOUNT $**	**NAME /ADDRESS**: Name of firm Contact person Address, City, Zip Phone Email
☐ **DBE** ☐ **MBE** ☐ **WBE** ☐ **OTHER** ☐ SUBCONTRACTOR ☐ SUPPLIER/SERVICE ☐ JOINT VENTURE ☐ BROKER **TYPE OF CONTRACT** **CONTRACT AMOUNT $**	**NAME /ADDRESS**: Name of firm Contact person Address, City, Zip Phone Email

SUBCONTRACTING PARTICIPATION PERCENTAGES FOR MBE & WBE PARTICIPATION

	% MBE	% WBE
Construction	11%	4%
Equipment	2%	2%
Services	4%	2%
Supplies	2%	1%

FORM COMPLETED BY:

NAME	**TITLE**	**PHONE**
SIGNATURE	**DATE**	**EMAIL**

Failure to complete and submit this form with bid -Will cause the bid to be rejected as non-responsive

DBE Contractor Information Form (06/09 rev) Additional pages attached

MINORITY BUSINESS ENTERPRISE/WOMEN'S BUSINESS ENTERPRISE (MBE/WBE)[1]
VERIFICATION OF QUALIFICATION

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
DIVISION OF DRINKING WATER AND ENVIRONMENTAL MANAGEMENT

Firm Name:	**Phone:**		
Address:			
Principal Service or Product:			
☐ **- MBE** ☐ **- WBE**			
☐**-Prime Contractor** ☐ **- Supplier of Material/Service** ☐ **- Subcontractor** ☐ **- Broker**			
☐ **- Sole Ownership** ☐ **- Corporation** ☐ **- Partnership** ☐ **- Joint Venture**			
Names of Owners	**Percent Ownership**	**MBE- Ethnic Identity[1]**	**WBE**
Agency Certifying MBE/WBE Qualification			
Certifying Agency Address	**Certifying Agency Phone**		
Certification number	**Date Certified**		
Submitted by:	**Date**		

[1]Refer to definitions on next page.

MINORITY BUSINESS ENTERPRISE/WOMEN'S BUSINESS ENTERPRISE (MBE/WBE)

An MBE is a business that is, (1) at least 51 percent owned and controlled by one or more minority individuals, or, in the case of a publicly owned business, at least 51 percent of the stock is owned by one or more minority individuals; and (2) whose daily business operations are managed and directed by one or more of the minority owners.

A WBE is a business that is, (1) at least 51 percent owned by one or more women, or, in the case of a publicly owned business, at least 51 percent of the stock is owned by one or more women; and, (2) whose daily business operations are managed and directed by one or more of the women owners.

MINORITY INDIVIDUALS INCLUDE:

(a) American Indians

Persons having origins in any of the original peoples of North America. To qualify in this group, a person shall be a citizen of the United States and meet one or more qualifying criteria including:

(1) Be at least one-fourth Indian descent (as evidenced by registration with the Bureau of Indian Affairs);

(2) Characteristic Indian name;

(3) Recognition in the community as an Indian;

(4) Membership in a tribe, band or group of American Indians (recognized by the Federal Government), as evidenced by a tribal enrollment number or similar indication; and

(5) Characteristic Indian appearance and features.

(b) Black Americans

U.S. citizens, other than Hispanic, having origins in any of the black racial groups of Africa.

(c) Asian Americans

U.S. citizens having origins in any of the original peoples of the Far East, Southern Asia, the Indian subcontinent or the Pacific Islands. This area includes, for example, China, Japan, Korea, the Philippine Islands and Samoa. The Indian subcontinent takes in the countries of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Sikkim, and Bhutan.

(d) Hispanic Americans

U.S. citizens of Mexican, Puerto Rican, Cuban, or other Spanish culture or origin, regardless of race. Only those persons from Central and South American countries who are of Spanish origin, descent, or culture should be included in this category. Persons from Brazil, Guyana, Surinam or Trinidad, for example, would be classified according to their race and would not necessarily be included in the Hispanic category. In addition, the category does not include persons from Portugal, who should be classified according to race.

(e) American Eskimos and American Aleuts

LIST OF WORK MADE AVAILABLE

List items of the Work the Bidder made available to DBE firms. Identify those items of the Work the Bidder might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar amount and percentage of the Base Bid. The Bidder must demonstrate that enough work to meet the goal was made available to DBE firms.

ITEM OF WORK MADE AVAILABLE	NAICS CODE	BIDDER NORMALLY PERFORMS ITEM (Y/N)	ITEM BROKEN DOWN TO FACILITATE PARTICIPATION (Y/N)	AMOUNT	PERCENTAGE OF BASE BID

SUMMARY OF BIDS RECEIVED

Type of Job	NAICS CODES	Company Name	Selected (Y/N)	Bid Amount	DBE	Non-DBE	Explanation for not Selecting

USE ADDITIONAL FORMS AS NECESSARY

DISADVANTAGE BUSINESS ENTERPRISE (DBE)
GOOD FAITH EFFORT LIST OF SUBCONTRACTORS SOLICITED

Contractor Name	Contractor Address	How Located	Date of Contact	Contact Method	Task Description	Response (Yes/No)

USE ADDITIONAL FORMS AS NECESSARY

ATTACHMENT E

SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

1) Standard Specifications for Public Works Construction (The GREENBOOK) currently in effect.

2) The City of San Diego Standard Specifications for Public Works Construction (The WHITEBOOK).

SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

1-2 TERMS AND DEFINITIONS.

Normal Working Hours. To the City Supplements, ADD the following:

The Normal Working Hours are 8:30 AM to 3:30 PM, unless otherwise specified on the Traffic Control Plans.

SECTION 2 - SCOPE AND CONTROL OF WORK

2-3.2 Self Performance. DELETE in its entirety and SUBSTITUTE with the following:

1. You must perform, with your own organization, Contract work amounting to at least 50% of the base bid alone or base bid and any additive or deductive alternate(s) that together when added or deducted form the basis of award.

2. The self performance percentage requirement will be waived for contracts when a "B" License is required or allowed.

2-5.3.1 General. To the City Supplement, ADD the following:

7. For products for which an AML is available, products listed in the AML shall be used. A submittal review will be conducted for products not identified on an AML on a case-by-case basis when:

   a) The product type or category is not in the AML.

   b) The AML does not list at least two available manufacturers of the product.

   c) The material or manufacturer listed in the AML is no longer available. Documentation to substantiate the product is no longer available or in production is required as part of the submittal.

In the case of conducting a submittal review when required by the Plans or Special Provisions, or when requested by the Engineer, all submittals shall be accompanied by the City's submittal form.

The Product Submittal Form is available for download at:

http://www.sandiego.gov/publicworks/edocref/index.shtml

2-5.3.2 **Working Drawings. TABLE 2-5.3.2(A),** ADD the following:

Item	Section No.	Title	Subject
17	306-1.6	Water Valve Bypass for Mainlines 16" and Larger	SDW-154*

*Note: The distance dimensions shown between the bypass pipes and between bypass pipes and the mainlines are subject to change to field conditions.

2-7 **SUBSURFACE DATA.** ADD the following:

4. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests of subsurface conditions at the Work Site:

    1. Report of Geotechnical Evaluation dated June 14, 2013 by Ninyo & Moore and Associates.

5. The report(s) listed above is(are) available for review by contacting the Contract Specialist or visiting:

    ftp://ftp.sannet.gov/OUT/ECP/2-7%20SUBSURFACE%20DATA/

2-14.3 **Coordination.** To the City Supplement, ADD the following:

Coordinate the Work with the adjacent project(s) as listed or illustrated on the project map shown on Appendix F:

a) Upas St. Pipeline Replacement, S11022, Alice Altes (619)-533-4105

b) Water Group Job 943, B11039, Tina Huang (619)-533-3863

c) University Ave Mobility Project, S00915, Dean Marsden, (619)-533-4608

d) Georgia St. Bridge Improvements, S00863

SECTION 4 - CONTROL OF MATERIALS

ADD:

4-1.1.1 **Buy America.** None of the funds made available by a State water pollution control revolving fund as authorized by title VI of the Federal Water Pollution Control Act (33 U.S.C. 1381 et seq.) or made available by a drinking water treatment revolving loan fund as authorized by section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) shall be used for a project for the construction, alteration, maintenance, or

repair of a public water system or treatment works unless all of the iron and steel products used in the project are in compliance of section 4-1.1.2.

The term "iron and steel products" means the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials.

4-1.1.2 **Steel and Iron Materials (23 CFR 635.410).** Furnish steel and iron materials to be incorporated into the work with certificates of compliance. Steel and iron materials must be produced in the U.S. except:

1. Foreign pig iron and processed, pelletized, and reduced iron ore may be used in the domestic production of the steel and iron materials [60 Fed Reg 15478 (03/24/1995)].
2. If the total combined cost of the materials does not exceed the greater of 0.1 percent of the total bid or $2,500, materials produced outside the U.S. may be used.

Production includes:

1. Processing steel and iron materials, including smelting or other processes that alter the physical form or shape (such as rolling, extruding, machining, bending, grinding, and drilling) or chemical composition.
2. Coating application, including epoxy coating, galvanizing, and painting, that protects or enhances the value of steel and iron materials.

4-1.3.4 **Inspection Paid For By the Contractor.** To the City Supplement, ADD the following:

a) Welding of Pipelines (Welding Inspectors)

4-1.3.6 **Preapproved Materials.** To the City Supplement, ADD the following:

3. Contractor shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

4-1.6 **Trade Names or Equals.** ADD the following:

You must submit your list of proposed substitutions for "an equal" ("or equal") item(s) **no less than 15 Working Days prior to Bid due date** and on the City's Product Submittal Form available at:

http://www.sandiego.gov/publicworks/edocref/index.shtml

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

6-7.1 **General.** To the City Supplement, ADD the following:

5. For Water projects where shutdowns of 16 inch and larger pipes are required, there is a shutdown moratorium from May until October. Contractor shall

plan and schedule work accordingly. No additional payment or working days will be granted for delays due to this moratorium.

6. 30 Working days for full depth asphalt final mill and resurfacing work required per SDG-107.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

7-3 LIABILITY INSURANCE. DELETE in its entirety and SUBSTITUTE with the following:

The insurance provisions herein must not be construed to limit your indemnity obligations contained in the Contract.

7-3.1 Policies and Procedures.

1. You must procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.

2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.

3. You must maintain this insurance for the duration of this contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this contract.

4. Payment for insurance is included in the various items of Work as bid by you, and except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any work under this contract until you have provided and the City has approved all required insurance.

5. Policies of insurance must provide that the City is entitled to 30 days (10 days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

1. Commercial General Liability Insurance must be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.

2. The policy must cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).

3. There must be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You must maintain the same or equivalent insurance for at least 10 years following completion of the Work.

4. All costs of defense must be outside the policy limits. Policy coverage must be in liability limits of not less than the following:

General Annual Aggregate Limit	Limits of Liability
Other than Products/Completed Operations	$2,000,000
Products/Completed Operations Aggregate Limit	$2,000,000
Personal Injury Limit	$1,000,000
Each Occurrence	$1,000,000

7-3.2.2 Commercial Automobile Liability Insurance.

1. You must provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of $1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").

2. All costs of defense must be outside the limits of the policy.

7-3.2.4 Contractors Hazardous Transporters Pollution Liability Insurance.

1. You must provide at your expense or require Subcontractor to provide, as described below Contractors Hazardous Transporters Pollution Liability Insurance including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than $2,000,000 limit per occurrence/aggregate for bodily injury and property damage.

2. All costs of defense must be outside the limits of the policy. The deductible must not exceed $25,000 per claim. Any such insurance provided by a subcontractor instead of you must be approved separately in writing by the City.

3. For approval of the substitution of Subcontractor's insurance the Contractor shall certify that all activities for which Contractors Hazardous Transporters Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance.

4. Contractual liability must include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There must be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. Occurrence based policies must be procured before the Work commences and must be maintained for the duration of this contract. Claims Made policies must be procured before the Work commences, must be maintained for the duration of this contract, and must include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies must continue to be maintained for 12 months after the completion of the Work under this contract without advancing the retroactive date.

5. Except as provided for under California law, the policy or policies must provide that the City is entitled to 30 days prior written notice (10 days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

7-3.3 **Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this contract as described herein must be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

7-3.3.1 **Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers must be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

7-3.4 **Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document must be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

7-3.5 **Policy Endorsements.**

7-3.5.1 **Commercial General Liability Insurance.**

7-3.5.1.1 **Additional Insured.**

a) You must provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.

b) To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.

c) The additional insured coverage for projects for which the Engineer's Estimate is $1,000,000 or more must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you.

d) The additional insured coverage for projects for which the Engineer's Estimate is less than $1,000,000 must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, or (c) premises owned, leased, controlled, or used by you.

7-3.5.1.2 **Primary and Non-Contributory Coverage.** The policy must be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it must provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives must be in excess of your insurance and must not contribute to it.

7-3.5.1.3 **Project General Aggregate Limit.** The policy or policies must be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work must reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit must be in addition to the aggregate limit provided for the products-completed operations hazard.

7-3.5.2 Commercial Automobile Liability Insurance.

7-3.5.2.1 **Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

7-3.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.

7-3.5.4.1 Additional Insured.

a) The policy or policies must be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you; except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of §2782 of the California Civil Code apply, this endorsement must not provide any duty of indemnity coverage for the active negligence of the City and its respective

elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

b) In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that is not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives must be limited to obligations permitted by California Insurance Code §11580.04.

7-3.5.4.2 **Primary and Non-Contributory Coverage.** The policy or policies must be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives must be in excess of your insurance and must not contribute to it.

7-3.5.4.3 **Severability of Interest.** For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies must provide that your insurance must apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and must provide cross-liability coverage.

7-3.6 **Deductibles and Self-Insured Retentions.** You must pay for all deductibles and self-insured retentions. You must disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

7-3.7 **Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this contract.

7-3.8 **Notice of Changes to Insurance.** You must notify the City 30 days prior to any material change to the policies of insurance provided under this contract.

7-3.9 **Excess Insurance.** Policies providing excess coverage must follow the form of the primary policy or policies e.g., all endorsements.

7-4 **WORKERS' COMPENSATION INSURANCE.** DELETE in its entirety and SUBSTITUTE with the following:

7-4.1 **Workers' Compensation Insurance and Employers Liability Insurance.**

1. In accordance with the provisions of §3700 of the California Labor Code, you must provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and

employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

2. Limits for this insurance must be not less than the following:

Workers' Compensation	Statutory Employers Liability
Bodily Injury by Accident	$1,000,000 each accident
Bodily Injury by Disease	$1,000,000 each employee
Bodily Injury by Disease	$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you must comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

7-4.1.1 **Waiver of Subrogation.** The policy or policies must be endorsed to provide that the insurer will waive all rights of subrogation against the City, and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from work performed by the Named Insured for the City.

7-5 **PERMITS, FEES, AND NOTICES.** To the City Supplement, ADD the following:

The City will obtain, at no cost to the Contractor; the following permits:

1. Caltrans Encroachment Permit.

7-10.1.1 **General.** To the City Supplement, ADD the following:

15. The Contractor must contact the Metropolitan Transit System at least two weeks before any traffic detour or temporary closure of any bus stop. For roadway detours or MTS bus stop closures, contract Michele Shepherd, at (619) 446-4021.

16. The removal or relocation of MTS infrastructure (bus shelters, etc.) must be coordinated with the Metropolitan Transit System at least four weeks in advance by calling Beverly Neff, at (619) 595-7037.

7-10.5.3 **Steel Plate Covers.** Table 7-10.5.3(A), REVISE the plate thickness for 5'-3" trench width to read 1 ¾".

7-15 **INDEMNIFICATION AND HOLD HARMLESS AGREEMENT.** To the City Supplement, fourth paragraph, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Your duty to indemnify and hold harmless does not include any claims or liability arising from the established active or sole negligence, or willful misconduct of the City, its officers, or employees.

7-16 COMMUNITY LIASON. To the City Supplement, DELETE in its entirety and SUSBTITUTE with the following:

ADD:

7-16 COMMUNITY OUTREACH.

7-16.1 General.

1. To ensure consistency with the City's community outreach plan for the project, the City will work with the Contractor to inform the public (which includes, but is not limited to, property owners, renters, homeowners, business owners, recreational users, and other community members and stakeholders) of construction impacts. Efforts by the Contractor to mitigate construction impacts by communicating with the public require close coordination and cooperation with the City.

2. The Contractor will perform the community outreach activities required throughout the Contract Time.

3. The Contractor shall closely coordinate the Work with the businesses, institutions, residents and property owners impacted by the Project. Example duties of the Contractor include notification to the businesses, institutions and residents of the commencement of construction activities not less than 5 days in advance, coordination of access for vehicular and pedestrian traffic to businesses, institutions and residences impacted by the Project, reporting of Contractor activities at all Project progress meetings scheduled by the Engineer, attendance to the Project Pre-construction Meeting, attendance at 2 community meetings, response to community questions and complaints related to Contractor activities, and written documentation including logging in all inquiries and complaints received into the City's Public Contact Log located on the City's SDShare site:

   http://sdshare/forums/ecp/PITS/picr/Lists/Public%20Contact%20Log/AllItems.aspx

4. The Contractor shall execute the Information Security Policy Acknowledgement Form - For Non-City Employees within 15 days of the award of the Contract if:

   a) The contact information for the Contractor is made available on any outreach materials or;

   b) The Contractor will be the primary point of contact to resolve project related inquiries and complaints.

5. Electronic Communication.

   All inquiries and complaints will be logged in to the City's SDShare site within 24 hours of receipt of inquiries and complaints.

Any updates or a resolution of inquiries, and complaints shall be documented in the City's SDShare site within 24 hours.

Copies of email communications shall be saved on to the City's SDShare site as individually as an Outlook Message Format (*.msg).

All graphics, photos, and other electronic files associated with the inquiries and or complaints shall be saved into the individual record.

6. Present your Exclusive Community Liaison to the Engineer, in writing, within 15 days of the award of the Contract.

7. Contractor shall obtain an Exclusive Community Liaison from the following firm or an approved equal:

TCM Groups, Inc.
A Hill International Inc.
3130 B Inland Empire Blvd.
Ontario, CA 91764
Contact: Vanessa Barrientos
Phone: (909) 202-3756

TCM Groups, Inc has performed community outreach during the project design phase. It is City's desire to hire same liaison for continuity.

7-16.2 Submittals.

1. The Contractor shall submit to the Resident Engineer, for review and approval, all drafts of letters, notices, postcards, door hangers, signs, mailing lists, proposed addresses for hand-delivery, and any other notices and letters that are to be mailed and or distributed to the public.

   a. Prior to distributing or mailing, the Contractor shall submit final drafts of letters, notices, postcards, door hangers, signs, and any other notices and letters to the Resident Engineer for final review and approval.

   b. After distributing or mailing, the Contractor shall submit verification of delivery and any copies of returned notices to the Resident Engineer.

2. The Contractor will use the City's SDShare site to identify and summarize communications (via phone, in person, and email) with the public the within 24 hours of receipt, even if the Contractor's response to the individual is still incomplete. The Contractor will upload to the City's SDShare site copies of all written, electronic, and verbal communications and conversations with the public.

7-16.3 Public Notice by Contractor.

1. Furnish and distribute public notices in the form of door hangers using the City's format to all occupants and/or property owners along streets where

Work is to be performed at least 5 days before starting the Work as directed by the Resident Engineer.

2. For all Work on private property, contact each owner and occupant individually a minimum of 30 days prior to the Work. If the Work has been delayed, re-notify owners and occupants of the new Work schedule, as directed by the Resident Engineer.

7-16.4 Quality Assurance.

1. During the course of community outreach, the Contractor shall ensure the character of all persons that conduct community outreach (distributing door hangers, attending community meetings, interacting with the public, etc.), on behalf of the Contractor:

   a. Have the ability to speak and comprehend English and/or Spanish, as appropriate for the community or public they are informing,

   b. Possess and display easily verifiable and readable personal identification that identifies the person as an employee of the Contractor,

   c. Have the interpersonal skills to effectively, professionally, and tactfully represent the project, Contractor, and City to the public.

7-16.5 Communications with the Public.

1. The Contractor shall not discuss the project with the public, unless otherwise directed by the Resident Engineer. Should members of the public approach the Contractor, the Contractor shall supply them with a project information card and notify the City of such contact within one (1) business day.

2. The Contractor shall provide updates on construction impacts to the Resident Engineer. The Contractor shall notify the Resident Engineer in advance about time-sensitive construction impacts and may be required to distribute construction impact notices to the public on short notice.

3. The Contractor shall incorporate community outreach activities related to construction impacts in the baseline schedule and update the Resident Engineer with each week's submittal of the Three-Week Look Ahead Schedule.

4. The Contractor shall duplicate and mail construction notifications prepared by the City in advance of construction. Construction notices shall be mailed and or delivered to all residences and businesses within a minimum of 300 feet of construction operations, along construction access roads, or other areas anticipated to be inconvenienced by construction activities at least one week in advance.

5. At the request of the Resident Engineer, the Contractor shall attend and participate in project briefings at community meetings.

6. The Contractor shall coordinate with the Resident Engineer on all responses and actions taken to address public inquiries and complaints within 24-hours that they are received.

7-16.6 Communications with Media.

1. The City may allow members of the media access to its construction site(s) on a case-by-case basis only.

2. Occasionally, members of the media may show up at construction sites, uninvited. Members of the media (including, but not limited to newspaper, magazine, radio, television, bloggers, and videographers) do not have the legal right to be in the construction site without the City's permission.

3. In the event media representatives arrive near or on the construction site(s), the Contractor shall keep them off the site(s), in a courteous and professional manner, until a Public Information Officer is available to meet them at an approved location.

4. The Contractor shall report all members of the media visits to the Resident Engineer as quickly as possible, so that the City's Public Information Officer can meet with the members of the media at the construction site(s).

5. If the City allows members of the media to access a construction site, the Contractor shall allow the City to escort the media representatives while they are on the construction site and shall ensure their safety.

6. The Contractor shall require media representatives to sign in and out of the Site Visitor Log and to use Personal Protective Equipment.

7. The Contractor has a right to speak to members of the media about its company and its role on the project. All other questions shall be referred to the City.

7-16.7 Exclusive Community Liaison Services.

If directed to conduct Exclusive Community Liaison Services, the Contractor shall retain an Exclusive Community Liaison for the Project whose sole responsibilities will be as follows:

1. Develop a contact list of community, tenants, property owners, and agencies with a stake in the project.

2. Notify businesses, institutions, property owners, and residents of the commencement of construction activities and utility service interruptions not less than 5 days in advance.

3. Coordinate access for vehicular and pedestrian traffic to businesses, institutions and residences impacted by the Project.

4. Prepare and present of materials in coordination with the Resident Engineer (the City's standards and guidelines for the communication materials are available for review by Bidders by sending a request to the Contract Specialist).

5. Respond to community questions and complaints related to Contractor activities.

6. Write, edit, update, or produce brochures, pamphlets and news releases.

7. Provide standard telephone inquiries and e-mail responses:

   a) Respond to telephone calls and e-mails from the public.

   b) Record calls and e-mails on the City's SDShare site.

8. Report Exclusive Community Liaison activities at all progress meetings scheduled by the Resident Engineer.

9. Attendance at pre-construction, community and stakeholders meetings.

7-16.7.1 **Exclusive Community Liaison Work Plan.** The Work plan for the Exclusive Community Liaison shall address the items of Work specified in these specifications. Present your Exclusive Community Liaison and submit your exclusive community outreach plan (in writing) within 15 days of the Award of the Contract.

7-16.8 **Payment.** The Payment for the community outreach and public notices is included in the various Bid items. The payment for exclusive community liaison is in the bid item for "Exclusive Community Liaison Services" when provided as a separate Bid item." If no Bid item has been provided the payment is included in the various Bid items.

7-20 **ELECTRONIC COMMUNICATION.** To the City Supplement, ADD the following:

Virtual Project Manager will be used on this contract.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

8-2 **FIELD OFFICE FACILITIES.** To the City Supplement, DELETE in its entirety.

SECTION 9 - MEASUREMENT AND PAYMENT

9-3.2.5 **Withholding of Payment.** To the City Supplement, item i), DELETE in its entirety and SUBSTITUTE with the following:

i) Your failure to comply with 7-2.3, "PAYROLL RECORDS" and 2-16, "CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM."

ADD:

9-3.7 **Compensation Adjustments for Price Index Fluctuations.** This Contract is subject to the provisions of The WHITEBOOK for Compensation Adjustments for Price Index Fluctuations for the paving asphalt.

SECTION 203 – BITUMINOUS MATERIALS

203-15 **RUBBER POLYMER MODIFIED SLURRY (RPMS).** To the City Supplement, CORRECT section numbering as follows:

OLD SECTION NUMBER	TITLE	NEW SECTION NUMBER
203-15	**RUBBER POLYMER MODIFIED SLURRY (RPMS)**	**203-16**
203-15.1	**General**	**203-16.1**
203-15.2	**Materials**	**203-16.2**
203-15.3	**Composition and Grading**	**203-16.3**
203-15.4	**Mix Design**	**203-16.4**

ADD the following:

RPMS shall be used on this contract.

SECTION 207 – PIPE

207-10.2.1 **General.** ADD the following:

The Contractor shall submit shop drawings which include the following information:

1. Pipe station and centerline grade elevation at each change of grade and at each horizontal angle point and the true angle of deflection at each combination angle point.

2. Material of construction with ASTM reference and grade.

3. Outside diameter and wall thickness of steel pipe and fittings.

4. Location of bulkheads, closure pieces for length adjustments and construction convenience, and outlets or special pieces for pipeline appurtenances.

5. Design and location of thrust ring collars, grooved end collars, flanges, reinforcing collars, crotch plates, and wrapper plates.

6. Limits of field welded joints and rubber gasket joints.

7. Design and dimensions of all joints including flanges, couplings, butt straps, hand holes, and bulkheads.

8. Physical properties of rubber gaskets.

9. Details of all specials, lining and coatings including types and thicknesses.

10. Submit certificate that cement complies with ASTM C150, designating type.

11. Submit certified copies of mill test reports on each heat from which steel is rolled.

12. Prior to shipment of pipe, submit certified test reports that the pipe was manufactured and tested in accordance with the AWWA standards specified herein.

13. Submit fabricator's written Quality Assurance Control Program prior to or with shop drawings. Manufacturers without a written, approved Quality Assurance Control Program will not be accepted for this project and shop drawings will not be reviewed or approved without the manufacturer's complete Quality Assurance Control Program. Submit manufacturer's quality control program results in one complete binder including all inspection reports, conducted tests, certified mill test reports, weld test coupon reports, welder qualification records, hydrostatic testing reports, shop testing reports, final fabrication checklist for each special, and affidavit of compliance. The quality control program results shall document all phases of the fabrication process.

The manufacturer is responsible for the performance of all inspection requirements as specified in AWWA C200. Pipe and fittings shall be inspected at the plant by the Engineer for compliance with these Specifications or by an independent testing laboratory selected by the Engineer.

Inspection of the pipe and fittings will also be made by the Engineer after delivery. The pipe shall be subject to rejection at any time on account of failure to meet any of the requirements of this Section even though sample pipes may have been accepted as satisfactory at the place of manufacture. Pipe rejected after delivery shall be marked for identification and shall be removed from the job at once.

207-10.2.2 Design Criteria. REVISE the second paragraph to read:

Steel cylinders shall have a wall thickness of not less than 3/8-inch for 12-inch and 16-inch nominal diameter pipe. Steel casing for 24-inch and 36-inch nominal diameter pipe shall not have a wall thickness of less than ½-inch.

ADD the following paragraph:

All steel pipe used shall conform to AWWA C200 requirements and specifications. For flanged outlets, use a slip on flange, double welded, and match the flange of the connecting component. At flanged outlets not indicated to be connected to valves or to other pipes, provide blind flanges with bolts, nuts, washers, and solid face gaskets.

a) **Alignment.**

1) For horizontal and vertical curve alignment, use straight or beveled pipe of normal or one-half normal lengths pulled partially open on one side of the joint or use pipes with a welded mitered bend of up to 10 degrees next to the bell end. Design pipes with a bend in excess of 10 degrees as a special. Do not use angular deflections at butt strap joints.

2) Deflection by Pulled Joints:

a. For rubber gasket joints, do not pull joint more than one-half of the watertight extensibility provided by the bell and spigot design or more than 3/4-inch on the outside of the curve. Minimum interior joint space shall be ½-inch or as recommended by the pipe manufacturer.

b. For welded joints, do not pull joint to exceed the minimum overlap of the assembled bell and spigot lap joint or more than ½-inch on the outside of the curve. Minimum overlap of the assembled joint shall be 1-inch or 3 times the pipe wall thickness, whichever is greater, per AWWA C206. Maintain a minimum ¼-inch space between the spigot end and the rolled end of the bell or as recommended by the pipe manufacturer.

3) Deflection By Beveled Joints: For welded joints only, use pipe sections having beveled bell ends for curves and angles in the alignment which cannot be accomplished using the maximum allowable deflection by pulled joints. Beveled pipe sections used in curved alignment shall be of standard length except when shorter sections are required to fit the radius of curvature in which case all sections shall be of equal length. Do not bevel spigot ends. The beveled end of a pipe shall not have a deflection from a plane perpendicular to the pipe axis exceeding 5 degrees. Form the bell end perpendicular to the plane of the beveled end so there is no loss of lap joint tolerance. Do not pull beveled joints.

4) Deflection By Mitered Bends: For rubber gasket joints and welded joints, use pipe sections with welded mitered bends of up to 10 degrees next to the bell end for curves and angles which cannot be accomplished using the maximum allowable deflections by pulled or beveled joints. Pipe sections with mitered bends used in curved alignment shall be of standard length except when shorter sections are required to fit the radius of curvature in which case all sections shall be of equal length.

207-10.2.5 Joints. ADD the following:

1. For pipes smaller than 24 inches, use a bell band or expanded bell and rolled groove spigot with rubber gasket.

2. Where welded joints are specified, or for pipes with 24-inch or larger diameter, use a carnegie shape spigot with matching bell. Attach spigot and bell with a double pass fillet weld on the exterior circumference of the pipe. Where access

to the interior of the pipe is possible, attach spigot and bell with fillet welds on both the interior and exterior circumference of the pipe section.

3. Butt Strap Closures: Butt straps shall be the same thickness as the pipe wall but not less than 10 gage, rolled to fit the outside cylinder diameter in two half sections, and shall be centered over the plain ends of the pipe sections they are to join. Weld a 5-inch threaded, steel, standard half coupling or couplings to the top butt strap half section to provide access for mortar lining the inside of the joint. Provide two couplings for pipes 18 inches and larger. Provide a threaded steel plug for each half coupling and weld the plug to the coupling upon completion of field applied mortar lining.

4. Use steel ring flanges conforming to AWWA C207, Class D for working pressures up to 150 psi or Class E for pressures greater than 150 psi; or ANSI B16.5, Class 150 or Class 300, respectively.

5. Steel pipe flanges with raised faces which will be connected to cast or ductile iron valves or fittings shall have the raised face removed from the steel flange.

6. Flexible Expansion Joints:

    a) Flexible expansion joints shall be installed in the locations indicated on the drawings and shall be manufactured of ductile iron conforming to the material requirements of ASTM A536 and ANSI/AWWA C153/A21.53, Foundry certification of material shall be readily available upon request.

    b) Each flexible expansion joint shall be pressure tested prior to shipment against it's own restraint to a minimum of 250 PSI. A minimum 2:1 safety factor, determined from the published pressure rating, shall apply.

    c) Each flexible expansion joint shall consist of an expansion joint designed and cast as an integral part of a ball and socket type flexible joint, having a minimum per ball deflection of: 25", 4" – 8", 10" – 12", 15", 14+" and 6-inches minimum expansion. The flexible expansion fitting shall not expand or exert an axial imparting thrust under internal water pressure. The flexible expansion fitting shall not increase or decrease the internal water volume as the unit expands or contracts.

    d) All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating and gaskets shall meet ANSI/NSF-61.

    e) Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.

    f) Polyethylene sleeves, meeting ANSI/AWWA C105/A21.5, shall be included for direct buried applications.

g) Manufacturer's certification of compliance to the above standards and requirements shall be readily available upon request. The purchaser (or owner) shall reserve the right to inspect the manufacturer's facility for compliance. All flexible expansion joints shall be The Force Balanced FLEX-TEND as manufactured by EBAA Iron, Inc., Eastland, TX, U.S.A. or equal.

207-10.2.8 Welding. ADD the following:

Submit welder and welding operator qualifications, welding procedure specifications, procedure qualification records including all destructive and non-destructive test results and welding bead profiles as required 30 days prior to welding

Submit qualifications to the Engineer for field welders prior to the Work. Field welders shall be certified under Section IX, Part A of the ASME Boiler and Pressure Vessel Code or in accordance with AWWA C206, Section 4. Certifications shall be dated within three (3) years of the job to be performed.

Where new pipelines are to be connected to existing pipelines, the Contractor shall field verify the location, elevation, pipe material, pipe outside diameter, and any other characteristics of the existing pipe before proceeding with fabrication of pipe or special pieces. This field verification shall be performed in the presence of the Engineer. The Contractor shall fabricate special pieces or adjust and align the new pipe as necessary to meet the field conditions and provide all required material, labor, and equipment to make the connection.

ADD:

207-10.2.9 Stulling. The manufacturer shall supply pipe complete with sufficient struts and cross bracing to maintain the pipe in a round condition and to limit its deflection during storage, transport, and installation.

Prior to placement of pipe in the trench, each section of pipe shall be stulled with timber stulls, each consisting of a timber strut provided with end blocks shaped to fit the interior surface of the pipe.

Pipe to be encased in concrete, including bends and steel-plate specials, shall be braced to prevent distortion, and in such manner that the diameter of the pipe shall not vary more than 0.5 percent from the specified diameter. These supports shall remain in place until their removal is authorized by the Engineer.

The Contractor and manufacturer shall determine the dimensions, spacing, and configuration of stulls in order to resist transport and backfill loads encountered without structural failure of the stull members or injury to the pipe lining.

207-10.4.7 Cement Mortar Lining and Polyolefin Tape Coating. To the City Supplement, ADD the following:

3. Field welding shall be per AWWA C205 and C206 requirements

4. Videotape inspection of repaired welded joints shall be at the cost of the Contractor.

5. Complete interior mortar joints for pipe sizes less than 600mm (24") by drawing through a tight-fitting swab or squeegee. Coat the face of the cement mortar lining at the bell with a sufficient amount of stiff cement mortar to fill the gap. Immediately after joining the pipes, draw the swab through the pipe to remove all excess mortar and expel it from the open pipe end. Do not move the pipe after the swab has been pulled past the joint.

ADD:

207-10.4.8 Epoxy Lining and Coating.

1. Where specified on plans, steel pipe with epoxy lining and coating shall be shop applied and conform to AWWA C210 requirements.

2. Field welding shall be per AWWA C210 and C206 requirements.

3. Interior joint repair of epoxy lining shall be repaired per AWWA C210 requirements.

4. Videotape inspection of repaired welded joints shall be at the cost of the Contractor.

207-25.1 PVC Pressure Water Pipe 4"-12". To the City Supplement, ADD the following:

3. PVC products as manufactured or distributed by J-M Manufacturing Company shall not be used on the Contract for pressurized pipe **unless specified otherwise**.

207-25.2 PVC Pressure Water Pipe 14"-36". To the City Supplement, ADD the following:

1. PVC products as manufactured or distributed by J-M Manufacturing Company shall not be used on the Contract for pressurized pipe **unless specified otherwise**.

2. Ductile iron fittings shall be used with mechanical joints and be manufactured in accordance with AWWA C110 and C111 requirements.

207-26 PIPE APPURTENANCES. To the City Supplement, ADD the following:

Valves shall be class 150 unless otherwise specified or shown on drawings.

207-27 FUSIBLE NON-PRESSURE POLYVINYLCHLORIDE PIPE. DELETE in its entirety.

SECTION 300 – EARTHWORK

300-1.4 **Payment.** To the City Supplement, paragraph (2), DELETE in its entirety and SUBSTITUTE with the following:

2. Payment for existing pavement removal and disposal of up to 12" thick, within the excavation e.g., trench limits, shall be included in the Bid item for installation of the mains or the Work item that requires pavement removal.

SECTION 302 – ROADWAY SURFACING

302-3 **PREPARATORY REPAIR WORK**. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

302-3 PREPARATORY REPAIR WORK.

1. Prior to roadway resurfacing or the application of slurry, the Contractor shall complete all necessary preparation and repair work to the road segment e.g., tree trimming, weed spray, weed abatement, crack sealing, asphalt repair, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc. and as specified in the Special Provisions.

2. Preparatory work shall include, but not be limited to, tree trimming, weed spray, weed abatement, crack sealing, asphalt repair i.e., mill and pave, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc.

3. The Contractor shall repair areas of distressed asphalt concrete pavement by milling or removing damaged areas of pavement to a minimum depth of 2" for Residential streets, and a minimum depth of 3" for all others to expose firm and unyielding pavement. The Contractor shall prepare subgrade as needed and install a minimum of 2" for residential streets, and a minimum of 3" for all others, of compacted asphalt concrete pavement over compacted native material as directed by the Engineer.

4. If, in order to achieve the minimum specified depth, the base material is exposed, the material shall be compacted to 95% relative compaction to a depth 10" below the finished grade (dig out). Compaction tests shall be made to ensure compliance with the specifications. The Engineer will determine when and where the test will occur. The City will pay for the soils testing required by the Engineer, which meets the required compaction. The Contractor shall reimburse the City for the cost of retesting failing compaction tests. If additional base material is required, the Contractor shall use Class 2 Aggregate Base in accordance with 200-2.2, "Crushed Aggregate Base."

5. Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, "Crushed Miscellaneous Aggregate Base."

6. Prior to replacing asphalt, the area shall be cleaned by removing all loose and damaged material, moisture, dirt, and other foreign matter and shall be tack coated in accordance with 302-5.4 "Tack Coat."

7. The Contractor shall install new asphalt within the repair area or for patches in accordance with 302-5, "ASPHALT CONCRETE PAVEMENT." Asphalt concrete shall be C2-PG 64-10 in compliance with 400-4, "ASPHALT CONCRETE."

8. No preparatory asphalt work shall be done when the atmospheric temperature is below 50 °F or during unsuitable weather.

9. Following the asphalt placement, the Contractor shall roll the entire area of new asphalt in both directions at least twice. The finished patch shall be level and smooth in compliance with 302-5.6.2 "Density and Smoothness." After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4" wide continuous band of SS-1H.

10. The minimum dimension for each individual repair shall be 4' x 4' and shall be subject to the following conditions:

    a) If the base material is exposed to achieve the required minimum removal thickness, the base material shall be prepared conforming to 301-1, "SUBGRADE PREPARATION."

    b) When additional base material is required, then the contractor shall use Class 2 Aggregate Base in accordance with 200-2.2, "Crushed Aggregate Base." Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, "Crushed Miscellaneous Base."

    c) The Contractor may use grinding as a method for removal of deteriorated pavement when the areas indicated for removal are large enough (a minimum of the machine drum width) and when approved by the Engineer.

    d) For both scheduled and unscheduled base repairs, failed areas may be removed by milling or by excavation provided that the edges are cut cleanly with a saw. The areas shall be cleaned and tack coated in accordance with 302-5.4, "Tack Coat" before replacing the asphalt. The areas for scheduled repairs have been marked on the street.

302-3.1 Asphalt Patching.

1. Asphalt patching shall consist of patching potholes, gutter-line erosion, and other low spots in the pavement that are deeper than ½" per 302-5.6.2, "Density and Smoothness." These areas are generally smaller and more isolated than those areas in need of mill and pave.

2. The areas requiring patching have been identified in the Contract Documents, marked on the streets, or as directed by the Engineer. The Contractor shall identify any new areas that may require patching prior to slurry work to ensure the smoothness and quality of the finished product.

3. The Contractor shall identify and repair any areas that may require patching, prior to the placement of slurry seal for smooth finished product.

4. Asphalt overlay shall not be applied over deteriorated pavement. Preparatory asphalt work shall be completed and approved by the Engineer before proceeding with asphalt overlay.

5. The Contractor shall remove distressed asphalt pavement either by saw cutting or milling, to expose firm and unyielding pavement; prepare subgrade (as needed); and install compacted asphalt concrete pavement over compacted native material as directed by the Engineer.

6. Prior to replacing asphalt, the area shall be cleaned and tack coated per 302-5.4, "Tack Coat".

7. Following the asphalt placement, the Contractor shall roll the entire patch in both directions covering the patch at least twice.

8. After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4" wide continuous band of SS-1H.

9. Base repairs shall not exceed 20% RAP in content.

302-3.2 Payment.

1. Payment for replacement of existing pavement when required shall be included in the unit bid price for Asphalt Pavement repair for the total area replaced and no additional payment shall be made regardless of the number of replacements completed. No payment shall be made for areas of over excavation or outside trench areas in utility works unless previously approved by the Engineer. No payment for pavement replacement will be made when the damage is due to the Contractor's failure to protect existing improvements. The Contractor shall reimburse the City for the cost of retesting all failing compaction tests.

2. The areas and quantities shown on the road segments and in appendices are given only for the Contractor's aid in planning the Work and preparing Bids. The Engineer will designate the limits to be removed and these designated areas shall be considered to take precedent over the area shown in an Appendix to the Contract Documents. The quantities shown in the appendices are based on a street assessment survey and may vary.

3. At the end of each day, the Contractor shall submit to the Engineer an itemized list of the asphalt pavement repair work completed. The list shall include the location of the work and the exact square footage of the repair.

4. Preparatory repair work and tack coating will be paid at the Contract unit price per ton for Asphalt Pavement Repair. No payment shall be made for areas of over excavation unless previously approved by the Engineer.

5. Milling shall be included in the Bid item for Asphalt Pavement Repair unless separate Bid item has been provided.

6. Payment for miscellaneous asphalt patching shall be included in the Contract unit price for slurry and no additional payment shall be made therefore.

302-5.1.2 Measurement and Payment. To the City Supplement, DELETE in its entirety.

302-5.2.1 Measurement and Payment. To the City Supplement, item c), ADD the following:

Imported Subgrade material shall be paid per bid item "Imported Backfill".

SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

306-1 OPEN TRENCH OPERATIONS. To the City Supplement, CORRECT certain section numbering as follows:

OLD SECTION NUMBER	TITLE	NEW SECTION NUMBER
306-1.8	**House Connection Sewer (Laterals) and Cleanouts**	**306-1.9**
306-1.7.1	**Payment**	**306-1.9.1**
306-1.7.2	**Sewer Lateral with Private Replumbing**	**306-1.9.2**
306-1.7.2.1	**Location**	**306-1.9.2.1**
306-1.7.2.2	**Permits**	**306-1.9.2.2**
306-1.7.2.3	**Submittals**	**306-1.9.2.3**
306-1.7.2.4	**Trenchless Construction**	**306-1.9.2.4**
306-1.7.2.5	**Payment**	**306-1.9.2.5**
306-1.7.3.6	**Private Pump Installation**	**306-1.9.2.6**
306-1.7.3.7	**Payment**	**306-1.9.2.7**

306-1.1.1 General. ADD the following:

Project Construction Phasing:

Phase 1 – Replace University Avenue Pipeline from Park Boulevard to Oregon Street, north to Polk Ave, and then to the east end of the limit of work.

Phase II – Replace pipeline W. Lewis Street from Stephens Street to Hawk Street; Hawk Street from W. Lewis Street to Washington Street; Washington Street from Hawk Street to Fifth Avenue; Fifth Avenue from Washington Street to University Avenue.

Phase III – University Avenue from 5th Avenue to Park Boulevard.

Phase IV – Robinson Ave from 5th Avenue to Park Boulevard, and Park Boulevard of approximately 60 feet north of Robinson Ave.

The Construction Phases above may be changed as needed and directed by the Resident Engineer.

Project Phasing Requirements. Include the following requirements in the development of the construction Schedule. Submit proposed deviations from these requirements to the Engineer in accordance with Section 2-5.3 and do not initiate the Work until approved in writing by the Engineer.

1. Schedule the construction of water improvements in coordination with the Upas St. Pipeline as follows:

    a. Only one of the three water pipelines between Fifth Ave and Park Boulevard can be out of service at any given time: University Avenue, Robinson Avenue, and Upas Street Pipelines.

    b. Only one of the two water pipelines between University Ave and Robinson Ave can be taken out of service at any time: Park Blvd, and Fifth Ave Pipeline.

2. Schedule the construction of water improvements in coordination with the Georgia St. Bridge Improvements.

3. Schedule the construction of water improvements in coordination with the University Ave Mobility Project.

When installing pipelines within the City's streets, for the following streets, the total time allowed for the completion of Work may not exceed 10 Working Days per 500' of pipeline installation:

1. Washington St.
2. University Ave.
3. Robinson Ave.

ADD:

306-1.1.7 Potholing.

1. Prior to construction, Contractor shall excavate, expose, and determine (pothole) the exact location and depth of the existing water line to be replaced and every utility connecting to and crossing the proposed water line.

2. Changes or delays caused by Contractor's failure to perform potholing shall not be eligible for extra work compensation or time extension.

306-1.2.14 Thrust Blocks and Anchor Blocks. To the City Supplement, ADD the following:

Thrust blocks shall be constructed according to the following table.. For additional thrust block and anchor block details and notes refer to City Standard Drawing SDW-151.

Type of Appurtenance	Total Thrust (lbs)	Assumed Soil Capacity (psf)	Min Bearing Area ($ft^{2)}$
22.5 Degree bend (16")	31,302	1,000	31.3
90 Degree bend (16")	113,454	1,000	113.5
11.25 Degree Bend (8")	3,932	1,000	3.9
8 x 6 Reducer	4,199	1,000	4.2
12 x 4 Reducer	19,833	1,000	19.8
12 x 6 Reducer	16,663	1,000	16.7
12 x 8 Reducer	12,465	1,000	12.5
12 x 10 Reducer	6,856	1,000	6.9
16 x 12 Reducer	17,450	1,000	17.5
16 x 6 Reducer	34,113	1,000	34.1
16 x 8 Reducer	29,915	1,000	29.9
16 x 12 Cross with Valves	80,224	1,000	80.2
16 x 8 Cross with Valves	80,224	1,000	80.2
16 x 6 Tee with Valves	A: 11,451	1,000	A: 11.5
	B: 80,445		B: 80.4
16 x 8 Tee with Valves	A: 20,056	1,000	A: 20.1
	B: 80,445		B: 80.4
16 x 16 Tee with Valves	A&B: 80,224	1,000	A&B: 80.2
16 x 12 Tee with Valves	A: 45,126	1,000	A: 45.1
	B: 80,445		B: 80.2
8 x 6 Tee with Valves	A: 11,451	1,000	A: 11.5
	B: 20,056		B: 20.1
16 x 4 Tee with Valves	A: 5,278	1,000	A: 5.3
	B: 80,445		B: 80.2
12 x 6 Tee with Valves	A: 11,451	1,000	A: 11.5
	B: 45,126		B: 45.1
12 x 12 Tee with Valves	A&B: 45,126	1,000	A&B: 45.1
90 Degree Bend (12")	63,818	1,000	63.8
22.5 Degree Bend (12")	17,608	1,000	17.6
11.25 Degree Bend (12")	8,847	1,000	8.8

Type of Appurtenance	Total Thrust (lbs)	Assumed Soil Capacity (psf)	Min Bearing Area ($ft^{2)}$
45 Degree Bend (12")	34,538	1,000	34.5
11.25 Degree Bend (16")	15,727	1,000	15.7
16 x 24 Reducer	49,857	1,000	49.9
16 x 36 Reducer	162,036	1,000	162.0
24 x 36 Reducer	84,823	1,000	84.8
36 x 36 Tee	305,363	1,000	305.4
36 x 6 Tee	A: 8,483	1,000	A: 8.5
	B: 305,363		B: 305.4
90 Degree Bend 36"	431,849	1,000	431.8
11.25 Degree Bend 36"	59,862	1,000	59.9

ADD:

306-1.2.15 **Restrained Joint Systems.** Restrained joints shall be used on all pressure pipelines where thrust blocks cannot be installed.

Joints in buried PVC piping shall be of either restrained push-on or restrained mechanical joint per AWWA C111 except where flanged joints are required to connect to fittings, valves, and other equipment or as shown on the Drawings. Joint restraint systems shall be selected from the City's AML and shall be installed in accordance with the manufacturer's instructions.

The minimum required restrained joint lengths are listed in the following tables and are based on AWWA Manual M23, a minimum pipeline cover of 3.0 feet, test pressure of 225 psi. Any restrained joint length required not shown shall be calculated and submitted for approval.

Table 1 – Restrained Joint Lengths for Bends

Pipe Dia. (in)	Bend (degrees)	Horiz & Vert. Up. Bends	Vert. Down Bends
16	11.25	14	20
16	22.5	28	41
16	45	59	85
16	90	141	204

Table 2 – Restrained Joint Lengths for Tees and Crosses		
Pipe Run Dia. (in)	Pipe Bend Dia. (in)	Branch Restrained Length, L_b (ft)
16	8	120
16	10	150
16	12	175
16	16	225

Table 3 – Restrained Joint Lengths for Dead Ends	
Pipe Dia. (in)	Restrained Length (ft)
16	225

306-1.3.3 Jetted Backfill. DELETE in its entirety, SUBSTITUTE with the following:

Jetted Backfill will not be permitted.

306-1.6 Basis of Payment for Open Trench Installations. ADD the following:

Payment for imported backfill when the Contractor elects to import material from a source outside the project limits and when authorized by the Engineer shall be included in the Bid unit price for Imported Backfill. The price shall include the removal and disposal of unsuitable materials.

Restrained joints shall be included in the bid item for water mains.

Contractor shall provide a lump sum bid for installation and testing of cathodic protection equipment where specified on plans.

Contractor shall provide a lump sum bid for the potholing work as described in section 306-1.1.7.

306-1.8.3 Polyurethane Lining. To the City Supplement, item 5, DELETE in its entirety.

ADD:

306-2.3.1 Jacking Steel Casing – Installation.

a) Installation of Steel Casing

Jacking Head: A steel jacking head shall be fitted to the lead section of the casing in such a manner that it extends around the entire outer surface of the steel casing and projects at least 18 inches beyond the driving end of the casing. The jacking head shall not protrude more that ½-inch outside of the outer casing surface. The head shall be securely anchored to prevent any wobble or alignment variation during the boring or jacking operations. To

minimize voids outside the casing, excavation shall be carried out entirely within the jacking head and not advance of the head. Excavated materials shall be removed from the casing as the boring or jacking operation progresses and no accumulation of excavated materials within the casing shall be permitted.

Jacking Pit: The excavations for the boring or jacking operations shall be adequately shored to safeguard existing substructures and surface improvements and to ensure against ground movement in the vicinity of the jack supports. Heavy guide timber, structural steel, or concrete cradles of sufficient length shall be provided to assure accurate control of boring or jacking alignment. The Contractor shall provide adequate space within the excavation to permit the insertion of the lengths of casing to be bored or jacked. Timbers and structural steel sections shall be anchored to ensure action of the jacks in line with the axis of the casing. A bearing black, consisting of timber or structural steel framework shall be constructed between the jacks and the end of the casing to provide uniform end bearing over the perimeter of the casing and distribute the jacking pressure evenly.

Monitoring Ground Surface Movement: The Contractor shall monitor the ground surface movement of all structures, roadways parking lots and any other areas of concern within twenty-five (25) feet on both sides of the tunneling alignment at a maximum spacing of one hundred (100) feet along the alignment or as required by the ENGINEER. The Contractor shall submit a Surface Monitoring Plan (SMP) to the ENGINEER for prior approval. The SMP shall comply with all applicable permit stipulations and requirements.

a) Installation of Carrier Pipe

Installation of Pipe: The end seals shall be pulled on (in case of pull-on type of seals) and the casing spacers shall be installed over the carrier pipe at the proper location, in accordance with the casing spacers manufacturer's instructions. Carrier pipe spans between casing spacers shall not exceed 5-feet. Care shall be taken not to damage the carrier pipe or the inner coating of casing pipe while installing the carrier pipe. The position of the runners in the casing shall be as per manufacturer's recommendations. The clearance between the carrier pipe and casing shall be as recommendations. The clearance between the carrier pipe and casing shall be as indicated and shall be uniform throughout the casing length.

End Seals: After the carrier pipe has been tested, the EPDM rubber end seals shall be strapped by stainless steel bands in accordance with manufacturer's instructions.

Placing Annular Seals: The Contractor shall furnish the necessary sand, equipment, hoses, valves, and fittings for the operation. Sand shall be conveyed by air through a hose and deposited by air pressure to fill the annular space between the casing pipe and the carrier pipe. Sand shall be free of lumps to flow unimpeded and completely fill all voids. Sand placement shall be considered completed when no more sand can be blown into the annular space. The Contractor shall protect and preserve the interior surfaces of the steel casing and the exterior surfaces of the carrier pipe form damage.

Closing of Pits: After jacking equipment and excavated materials from the boring or jacking operations have been removed from the jacking pit, the Contractor shall prepare the bottom of the jacking pit as a pipe foundation. The Contractor shall remove all loose and disturbed materials below pipe grade to undisturbed earth and recompact the material in accordance with Section 306-1.3.6.

ADD:

306-2.3.2 Jacking Steel Casing – Submittal Items.

Contractor shall submit the following items.

1. Fabrication information, including pipe designs, weights, diameter, thickness, length and class. Casing pipe shall be the product of a single domestic manufacturer. The Contractor shall furnish certificates to the Engineer certifying that the pipe furnished hereunder is in compliance with the requirements of the Contract Documents. The Contractor shall furnish to the Engineer the casing pipe manufacturer's quality control records, as required herein.

2. Carrier Pipe manufacturer's recommendations, on manufacturer letterhead, for location, number and maximum longitudinal distance between spacer sets (within casing installed using jack and bore) to provide necessary support of carrier pipe that will not allow sagging of carrier pipe between spacers.

3. Type of Casing Joint: Calculations by a licensed California Professional Engineer showing the casing joints can withstand the maximum jacking capacity of the jacking system that the pipe will experience.

    a. Installation details for casing.

    b. Welder certification.

    c. Line and grade calculations and layout for casing installation.

    d. Installation details for carrier pipe with the casing pipe.

    e. Line and grade layout plan for the carrier pipe installation.

4. Quality Assurance Plan: The contractor shall submit a Jack and Bore Quality Assurance Plan including all documents to substantiate quality assurance items.

5. Jack and Bore Work Plan: The Contractor shall submit the Jack and Bore Work Plan including proposed methods of excavation. Contractor shall be responsible for adequacy and safety of construction means, methods, and techniques. Plan shall consist of design plans, calculations, and related supplemental information describing in detail the design concept for all jack and bore operations. The Contractor submittals shall include as a minimum the following for each jack and bore location:

    a. Jacking pits are to have designs integrated with pipe's maximum allowe3d jacking capacity, thrust block design. Contractor's launch procedure.

Contractor's surcharge loads. Contractor's dewatering requirements and carrier pipe installation requirements.

b. Maximum jacking capacity including jack size and arrangement.

c. Size, arrangement and installation of soil stabilization and dewatering equipment (if so determined by the Contractor) with details of locations where groundwater will be directed during construction with applicable permits).

d. Detailed description of equipment, materials, sequence, and procedures for jacking casing pipe with shield including provisions for standby and backup equipment.

e. Detail Plans of shield including:

   i. Cutter face demonstrating the shield is capable of ingesting all soil material.

   ii. Excavation tooling.

f. Tunnel shall be supported at all times by the shield, segments, or by jacked casing.

g. Revisions to shop plans, as necessary, to accommodate field conditions and/or compliance as specified herein.

h. Detailed information on plan to monitor settlement caused by jack and bore operation. Jack and bore construction shall not impact surface improvements and/or underground utilities.

6. The Contractor shall submit contingency plans for each of the following:

   a. Restoration of line and/or grade to the line and/or grade indicated on the Plans.

   b. Ground and/or water begin to flow at tunnel face. If re-grouting ahead of jack and bore to prevent settlement, heave and collapse of ground is proposed, provide grouting plan.

   c. Settlement monitoring detects out of tolerance settlement/heave.

   d. The jack and bore progression exceeds the final line and grade, as provided on the Plans, for the final placement of the carrier pipe within the casing.

   e. Jacking forces exceed 80% (e.g. 80 tons for 100 tons of pipe capacity) of maximum jacking capacity of steel casing pipe.

   f. Actual jacking forces exceed 80% (e.g. 96 tons of 120 tons of jacking force) of maximum allowed jacking force of the hydraulic jacks.

   g. Tunnel backfill delivery pressure exceeds pressure calculated using minimum factor of safety and before mandatory shutdown value.

   h. Removal of an obstruction when bore encounters an obstruction where excavation from surface is not permitted.

306-5.1 Removal and Abandonment of Existing Water Facilities. ADD the following:

7. Existing, above-ground pipeline appurtenances (including, but not limited to, air valves and blow offs and their enclosures) that are connected to existing abandoned pipelines or pipelines that are to be abandoned shall be removed in their entirety. Piping that extends below grade shall be removed to a depth of 12 inches and the remaining, exposed ends shall be sealed with concrete or crimped as appropriate.

306-13 EXISTING UTILITIES. To the City Supplement, ADD the following:

4. Fiber optic conduit and cable located in existing bridge cell at University Avenue shall be relocated to an adjacent utility cell by a SECC Corporation or a Verizon approved equal prior to start of construction. Payment of work is through a pre-negotiated bid item as shown on bid schedule.

306-22 PIPE FUSION. DELETE in its entirety.

SECTION 307 – STREET LIGHTING AND TRAFFIC SIGNAL SYSTEMS

307-21 LIGHTED CROSSWALKS. ADD the following:

Contractor shall replace and restore lighted crosswalk improvements at University Avenue and Alabama Street if disturbed or damaged during construction. Contractor shall provide a lump sum bid for the repair of lighted crosswalk.

SECTION 308 – LANDSCAPE AND IRRIGATION INSTALLATION

308-1.2 Protection of Existing Trees. Several mature eucalyptus trees onsite and adjacent to the site and are slated to remain. Contractor shall take every precaution to protect and preserve the health, vigor and welfare of these mature trees, including but not limited to the measures described herein, throughout the duration of construction and maintenance. This includes their root systems & critical root zones. For the purposes of this specification, the critical root zone shall be any area under or near the drip line of the existing trees to remain where roots are encountered, or any area where a significant buttressing root (greater than 3" diameter) may extend even further than the drip line.

Contractor is to be advised that both buttressing roots and feeding roots are to be preserved. In that regard, a 4 foot protection fence has been specified for placement around the trees and their root zones 15 feet from the trunk of trees to remain. Piping, irrigation systems, and planting have been carefully minimized in these areas. Grading and on grade improvements have been carefully adjusted to further minimize impact to the trees.

Before the onset of construction, the Contractor shall meet onsite with the Resident Engineer, Certified Arborist, the Project Manager and the design consultant. At this meeting, the City shall determine if any pruning or other remedial measures need to be taken and the City shall perform these tasks before the start of construction, and turnover of the site to the Contractor.

As a first item of work for the one tree whose canopy lies within the work area (pipeline below grade notwithstanding), the contractor shall embark upon a root discovery and protection program as listed herein. Contractor shall probe (with a soil probe), hand excavate and/or otherwise determine the location and extent of all substantial roots (greater than 3" diameter) near the surface of the existing tree or trees within the work area, and mark out all of the above. Mark out locations shall be clearly visible throughout the course of the work, and shall be reviewed and found to be sufficient by the Resident Engineer, the Arborist, the Project Manager, and the design consultant if necessary.

Contractor shall then install the tree protection chain link fence and signs. Chain link fence shall be a minimum of four feet tall. Protection fencing shall remain in place for the entire duration of construction, unless specifically approved in writing to be temporarily removed for specific tasks, and short durations only, by the Arborist and Resident Engineer. No construction workers, materials, equipment, including construction equipment, debris, or any other items shall be allowed within these fenced and protected areas, throughout the entire duration of construction, without the express written approval of the Resident Engineer, Arborist, and design consultant, except for the sole purpose of watering or fertilizing the trees and as listed herein.

At any location where people will walk or use wheelbarrows or similar equipment repeatedly, an elevated-walking surface should be installed to protect the tree's roots and soil from compaction

Installation of all protection devices should be inspected and verified before the start of work and maintained until all construction is complete on the site.

Do not stockpile dirt or construction materials under the drip line or within 15' feet of the trunk of the tree, whichever is more restrictive. Protect the tree from damage during excavation. Use appropriate techniques listed above to prevent the compaction of soil or damage to roots located in the top 12"of the soil within this same critical root zone.

All trunks, boles, and branches and limbs within the reach of man or machine shall be protected. When/if the contractor has a machine operating near any of the above, there shall be a supervisor on constant standby to keep said equipment away from the trees. Additional measures may be required by the Resident Engineer. Scarring on trees, tree trunks, boles, branches or limbs will not be tolerated. Contractor is to refer to the damages paragraph of this section.

The contractor shall have the Arborist review the trees once per month during the construction period to assess their condition. If remedial measures (beyond pest control or these specifications) are required, and it is deemed by the Resident Engineer that they are due to contractor abuse, negligence, or lack of diligent care and culture of said trees, the contractor shall immediately implement such measures at his/her own cost. If the tree becomes infested with insects, the contractor shall likewise implement required remedies at his/her cost. Failure to do so may result in monetary damages.

If contractor causes or is deemed to have caused, in the sole determination of the Resident Engineer, through his/her negligence, abuse, or lack of diligent care and culture per these specifications, the permanent disfigurement (e.g. breaking or scarring) or injury to a tree other than that specifically required by the construction documents, he may be

assessed damages of not less than $500.00 and no more than $5,000.00 for each tree so injured depending on the gravity of the injury and the determination by the City.

If the contractor, by the same determination listed, above causes death to a tree, the contractor may be assessed or cause to pay damages of $10,000.00 per tree.

308-5 IRRIGATION SYSTEM INSTALLATION.

308-5.1 General. ADD the following:

There are several Irrigation heads and lateral lines within the work area to be preserved per this section, or, if damaged, removed and replaced in-kind with new equipment, per these plans and specifications. All existing irrigation improvements (sprinkler heads and lines) within the work area shall be surveyed and recorded by the engineer and marked out before the onset of construction. Where existing sprinkler heads can be protected, they shall be marked as such, before work starts, and protected with OSHA netting encircling them in a one foot radius around them.

If sprinkler heads or lines are to be cut, or are in such a place that they will be damaged by construction. The lines that service them shall be excavated at the edge of the work area and cleanly cut, capped, inspected by City and/or Caltrans personnel and locations clearly marked for later re-construction. Such irrigation lines and sprinkler heads shall be re-installed and inspected near the end of construction, in a manner that conforms to these specifications.

308-8 PAYMENT. ADD the following:

Work related to tree maintenance shall be included in the Bid items as follows:

- Tree Trimming (EA)
- Root Pruning (EA)
- Root Barrier (EA)
- Professional Certified Arborist
- 3 Year Landscaping and Irrigation Maintenance
- Bond for 3 Year Landscaping and Irrigation Maintenance

SECTION 600 – WORK INVOLVING THE CITY FORCES

600-1.2 High-lining. To the City Supplement, ADD the following:

1. Contractor shall furnish all plans, labor, equipment, materials and incidentals necessary to implement temporary water bypass piping system for the purpose of diverting existing water flow around a work area for the duration of the project to maintain existing water service at water mains, service connections, and fire service impacted by the replacement work.

2. Contractor shall prepare a specific, detailed description of the proposed piping system (Bypass Piping Plan [BPP]). The Bypass Piping Plan shall be

submitted for review and comments by the City prior to the mobilization of any of the equipment included in the Bypass Piping Plan. The plan shall include but not limited to the following:

1. Must handle existing water flows including pressure.
2. Schedules, locations, elevations, capacities of equipment and material.
3. Staging areas for pumps (if required).
4. Water plugging method and types of plugs (if required).
5. Any temporary pipe supports and anchoring requirements.
6. Emergency plans for adverse weather and flooding for the various phases of the Work.

600-1.2.2 High-lining by the Contractor. To the City Supplement, DELETE item 1 and SUBSTITUTE with the following.

1. Contractor shall furnish all plans, labor, equipment, materials and incidentals necessary to implement temporary water bypass piping.

600-1.2.2.2 Submittals. To City Supplement, ADD the following:

f) Submit High-lining Plan 30 days before work begins for approval by City.

600-1.2.2.9 Figures. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Contractor shall provide high-lining plans.

SECTION 700 – EXTENDED REVEGETATION, MAINTENANCE, AND MONITORING

700-1.3 Protection of Biological Resources. ADD the following:

5. Prior to excavation and during excavation within 15 feet of any tree to remain, a qualified arborist shall review limits of excavation and make any recommendations for protection of the tree. Any roots larger than 3 inches should be protected during excavation.

   After excavation of the pit, the arborist shall determine the condition of the tree and any recommendations for protecting the health of the tree.

700-1.4 Construction Fencing. ADD the following:

4. The contractor is responsible for protecting the trees to remain by erecting a minimum 4 foot height chain link fence around the trunk of the tree as far out from the tree as possible. No roots larger than 3 inches in diameter should be impacted by excavation.

An irrigation system shall be installed and maintained by the contractor for the three year monitoring period in Caltrans right-of-way. The system shall be powered by a solar controller.

700-1.6 Construction Access Routes. ADD the following:

Any branching of tree that is necessary to be trimmed should be done by a professional licensed tree care company and supervised by a qualified arborist. All work should be performed according to current Best Tree Maintenance Practices.

700-1.9.3 Storage of Existing Topsoil and Vegetation. ADD the following:

3. Existing trees to be removed shall be chipped on site to less than 3 inch and spread as mulch within the disturbed area.

700-2.11 Maintenance and Plant Establishment. ADD the following:

Replanted areas within Caltrans Right-of-way shall be monitored and maintained for 36 months from the date of acceptance. A 120-day Plant Establishment Period will be required prior to acceptance of the beginning of the Maintenance Period. If all plants are determined to be alive and healthy at the end of the PEP, the 120-day PEP will be a part of the 36 month Maintenance Period.

SECTION 701 – WATER POLLUTION CONTROL

701-13.9 Water Pollution Control (WPCP). To the City Supplement, ADD the following:

5. Contractor shall prepare and submit WPCP documents as required for Caltrans Encroachment Permit.

SECTION 703 – ENCOUNTERING OR RELEASING HAZARDOUS SUBSTANCES

703-20 Payment. To the City Supplement, Item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Payment for waste management shall be included in the applicable Bid items as follows:

   a) Preparation of Hazardous Waste Management Plan and Reporting (LS).

   b) Monitoring, Testing, Sampling, Site Storage, and Handling of Soils Containing RCRA Hazardous Waste (TON).

   c) Loading, Transportation, and Disposal of soils containing RCRA Hazardous Waste (TON).

   d) Monitoring of Petroleum Contaminated Soil (HR).

   e) Testing, Sampling, Site Storage and Handling of Petroleum Contaminated Soil (TON).

f) Loading, Transportation, and Disposal of Petroleum Contaminated Soil (TON).

g) Monitoring, Testing, Sampling Site Storage and Handling of Soils Containing Non-RCRA Hazardous Waste (TON).

h) Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste (TON).

i) Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized RCRA Hazardous Waste (55 Gal DRUMS).

j) Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized Non-RCRA Hazardous Waste (55 Gal DRUMS).

k) Testing, Sampling, Site Storage, Handling, Transportation and Recycling/Disposal of Universal Waste (EACH).

l) Testing, Sampling, Site Storage, Handling, Transportation and Recycling/Disposal of Regulated Waste (TON).

m) Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of RCRA Hazardous Waste contamination from the treatment of contaminated ground water (GAL).

n) Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Non-RCRA Hazardous Waste contamination from the treatment of contaminated ground water (GAL).

SECTION 705 – WATER DISCHARGES

705-2.6.1 General. Paragraph (3), CORRECT reference to Section 803 to read "Section 703."

705-2.6.3 Community Health and Safety Plan. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

705-2.6.3 Community Health and Safety Plan. See 703-2, "Community Health and Safety Plan."

SECTION 707 – RESOURCE DISCOVERIES

ADD:

707-1.1 Environmental Document. The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared an **Addendum to Mitigated Negative Declaration** for **University Ave Pipeline Replacement**, as referenced in the Contract Appendix. You must comply with all requirements of the **Addendum to Mitigated Negative Declaration** as set forth in the Contract Appendix A.

Compliance with the City's environmental document is included in the various Bid items, unless a bid item has been provided.

707-2 **Archeological and Native American Monitoring Program.** To the City Supplement, ADD the following:

The City will retain a qualified archaeologist for this contract. The Contractor shall coordinate its activities and Schedule with the activities and schedules of the archaeologist monitor. Notify the Engineer before noon of the working day before monitoring is required. See 2-11, "INSPECTION" for details.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

TECHNICALS

SECTION 13110
CATHODIC PROTECTION SYSTEM

PART 1 - GENERAL

1.1 THIS SECTION INCLUDES

A. The WORK of this Section includes providing a complete cathodic protection system for the following structures as outlined in this Section and on the Drawings:

1. Sections of 12-inch, 16-inch and 36-inch dielectrically coated steel piping

B. Electrical isolation of the structures from adjacent metallic structures, steel reinforced concrete structures, structures of dissimilar metal or dissimilar coatings, conduits and all other metallic components that may impact the operation of the cathodic protection system.

C. Electrical bonding of all non-insulated, non-welded pipe joints, mechanical joints and valves.

D. Installation of galvanic anodes and all other work described herein and on the Drawings.

E. Testing of system during installation.

F. Cleanup and restoration of work site.

G. Testing of installation after installation and backfill (Final System Checkout).

1.2 REQUIREMENTS

A. If the products installed as part of this Section are found to be defective or damaged or if the WORK of this Section is not in conformance with these Specifications then the products and WORK shall be corrected at the CONTRACTOR’s expense.

B. Any retesting required due to inadequate installation or defective materials shall be paid for by the CONTRACTOR.

C. The WORK also requires that one Supplier or Subcontractor accept responsibility for the WORK as indicated, but without altering or modifying the CONTRACTOR's responsibilities under the Contract Documents.

D. The WORK also requires coordination of assembly, installation and testing between the pipeline contractor and any cathodic protection material supplier or subcontractor.

1.3 RELATED SECTIONS

A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

1. Site Safety and Regulatory Requirements

2. Excavation, Trenching, Backfilling, and Compacting

3. Piping

4. Protective Coatings

1.4 REFERENCED SPECIFICATIONS, CODES AND STANDARDS

A. The WORK of this Section shall comply with the current editions of the following codes and standards:

1. ASTM ASTM International

   a. D1248 Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable

   b. C94 Standard Specification for Ready-Mixed Concrete

   c. B3 Standard Specification for Soft or Annealed Copper Wire

   d. B8 Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft

   e. B418 Cast and Wrought Galvanic Zinc Anodes

   f. D2220 Standard Specification for Polyvinyl Chloride (PVC) Insulation for Cable and Wire

2. AASHTO American Association of State Highway and Transportation Officials

   a. H20 Specification for Highway Bridges

3. NACE International, the Corrosion Society

   a. SP0169 Standard Practice, Control of External Corrosion on Underground or Submerged Metallic Piping Systems

   b. SP0286 Electrical Insulation of Cathodically Protected Pipelines

   c. RP0375 Wax Coating Systems for Underground Piping Systems

   d. TM0497 Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems

B. Whenever the Drawings or these Specifications require a higher degree of workmanship or better quality of material than indicated in the above codes and standards, these Drawings and Specifications shall prevail.

1.5 PERMITS AND JOB ACCESS

A. Prior to the start of construction, the CONTRACTOR shall apply to the required authorities for permits required for installation of the cathodic protection system.

B. The CONTRACTOR shall contact Underground Service Alert prior to commencing construction to locate existing utilities in the area of construction. Existing utilities include, but are not limited to, water lines, gas lines, telephone, street lights, sewer and storm drains and overhead and underground electric utilities.

C. Traffic control shall satisfy the requirements of the governing locality.

1.6 QUALITY ASSURANCE

A. Installation of the cathodic protection equipment shall be performed by individuals having at least 5 years of experience in the installation of the cathodic protection equipment described herein.

B. All testing required to be performed by a "qualified corrosion technician" shall be performed by a NACE Level 2 CP Technician under the supervision of a Corrosion Engineer. A Corrosion Engineer is a Registered Professional Corrosion Engineer or a NACE Level 4 Cathodic Protection Specialist.

1.7 SUBMITTALS

A. The following shall be submitted to the ENGINEER prior to any equipment installation.

1. Catalog cuts, bulletins, brochures, or data sheets for all materials specified herein.

2. Certification that the equipment and materials proposed meet the Specifications and the intent of the Specifications.

3. Written certification of experience required.

4. Schedule including the expected start date and planned completion date.

B. The following shall be submitted to the ENGINEER after completion of the WORK.

1. Wire connection testing.

2. Casing insulator testing, before and after backfill.

3. Joint bond testing, before and after backfill.

4. System check-out report.

5. Red-lines shall be submitted to and approved by the ENGINEER before the WORK is considered complete.

1.8 INTERFERENCE AND EXACT LOCATIONS

A. The locations of cathodic protection equipment, test stations, devices, outlets and appurtenances as indicated are approximate only. Exact locations shall be determined by the CONTRACTOR in the field subject to the approval of the ENGINEER.

B. The CONTRACTOR shall field verify all data and final locations of work done under other Sections of the Specifications required for placing of the electrical work.

C. In case of interference with other work or erroneous locations with respect to equipment or structures, the CONTRACTOR shall furnish all labor and materials necessary to complete the WORK in an acceptable manner.

PART 2 – PRODUCTS

2.1 GENERAL

A. All materials installed must be new. All equipment and materials supplied shall be similar to that which has been in satisfactory service for at least 5 years.

2.2 ANODE JUNCTION PANEL BOARDS

A. Panel boards shall be made of 1/4-inch thick phenolic plastic sized as indicated on the Drawings.

B. Connection hardware shall be brass or bronze. All connections shall be double nutted bolts with lock washers.

C. Copper bus bar shall be 1/8-inch thick and sized to fit. The copper bus bar shall be per ASTM B187, 98% conductivity.

2.3 SOLDERLESS LUG CONNECTORS

A. Solderless lug connector shall be made of brass or copper with a brass screw. The lug shall be designed for direct burial and shall be appropriately sized for the connection wire. The lug shall be ILSCO Type XT-6DB or approved equivalent.

2.4 SHUNTS FOR GALVANIC ANODES

A. Shunts shall be 0.01-Ohm, 6-Ampere, manganin wire type, as indicated. Shunts shall be Type RS as manufactured by Holloway or equivalent.

2.5 CATHODIC PROTECTION TEST BOXES

A. Text box: Concrete Box of dimensions as shown on the drawings. Use pre-cast Concrete San Diego Pre-cast Model 1BSD|K with Cast Iron Lid. The lid shall be 9-1/2 inch diameter with the letters “City of San Diego Corrosion Test Station”.

2.6 STEEL POLE

A. Steel pole shall be 4-inch diameter ANSI B36.10 Galvanized steel pipe.

B. Steel pole shall be painted yellow.

2.7 READY-MIXED CONCRETE

A. Ready-mixed concrete shall be in accordance with ASTM C94.

2.8 UTILITY WARNING AND IDENTIFICATION TAPE

A. The warning and identification tape shall be an inert plastic film designed for prolonged underground use. The tape shall be a minimum of 3 inches wide and a minimum of 4 mils thick. The tape shall be continuously printed over the entire length with the wording "CAUTION: CATHODIC PROTECTION CABLE BURIED BELOW". The wording shall be printed using bold black letters. The color of the tape shall be red.

2.9 WIRES

A. Conductors shall consist of stranded copper of the gauge indicated. Wire sizes shall be based on American Wire Gauge (AWG). Copper wire shall be in conformance with ASTM Designations B3 and B8.

B. All wires terminating in a junction box or test station shall have a wire identifier attached within 4 inches from the end of wire at the terminal board, prior to backfill, as specified under "Wire Identification".

C. High molecular weight polyethylene (HMWPE) insulating jackets shall conform to ASTM D-1248.

D. Joint Bonds:

1. General: Single-conductor, stranded copper wire with 600-Volt HMWPE insulation. Supply joint bonds complete with formed copper sleeve on each end of wire. Bond cable gauge shall be based on the diameter and thickness of the pipe cylinder. Two bond cables shall be used for each non-welded, non-insulating pipe joint.

2. Push-On, Mechanical, or Flanged Joints: 18 inches long, minimum.

3. Flexible Coupling Joints: Depending on joint length but allow 12-inches of slack, with two 12-inch long THHN insulated No. 10 AWG wire pigtails, as manufactured by Erico Products Inc. (Cadweld), Cleveland, OH.

4. Bond valves, tees and crosses: 18 inches long, minimum.

5. Test Station: Single-conductor, No. 10 AWG stranded copper with 600-Volt THWN, or THHN insulation.

6. Insulation Colors: As shown on Drawings.

2.10 WIRE IDENTIFIERS

A. Wire identifiers shall be the wrap-around type with a high resistance to oils, solvents and mild acids. Wrap-around markers shall fully encircle the wire with imprinted alpha-numeric characters for pipe identification. The letters and numbers shall be printed, minimum 3/16 inch in size.

2.11 EXOTHERMIC WELDS

A. Exothermic welds shall be in accordance with the manufacturer's recommendations. Exothermic welds shall be Cadweld, as manufactured by Erico Products, Inc. or Thermoweld as manufactured by Continental Industries, Inc., or approved equivalent. Duxseal packing as manufactured by Johns-Manville or approved equivalent shall be used where necessary to prevent leakage of molten weld metal.

B. The shape and charge of the exothermic weld shall be chosen based on the following parameters:

1. Pipe material
2. Pipe size
3. Wire material/size and requirement for sleeves
4. Number of strands to be welded
5. Orientation of weld (vertical or horizontal)

2.12 GALVANIC ANODES

A. Zinc anodes shall be "High Purity" cast zinc anodes in accordance with ASTM B-418, Type II.

1. Ingot weight: 30 pounds, Packaged Length: 66 inches
2. Ingot weight: 60 pounds, Packaged Length: 60 inches

B. Galvanic anodes shall be prepackaged in a cloth bag containing backfill of the following composition; 75% gypsum, 20% bentonite and 5% sodium sulfate. The anodes shall be of the size indicated and placed where indicated.

C. The wire attached to the anodes shall be (AWG) stranded, single conductor, copper and insulated for 600 Volts. Wire size shall be minimum No. 10 AWG THHN and shall conform to the requirements of ASTM D2220. Connection of wire to the anode shall have a pulling strength that exceeds the wire's tensile strength.

D. Anode wires shall be of one continuous length without splices from the anode connection to the test station.

2.13 DIELECTRIC INSULATING FLANGE KITS

A. Insulating flange gaskets shall include full faced gaskets, insulating sleeves and washers and steel bolts, nuts and washers. The complete assembly shall have a pressure rating equal to or greater than the flanges between which it is installed. Insulating Gasket shall be neoprene faced phenolic, 1/8-inch thick. Insulating sleeves shall be Mylar, 1/32-inch thick. Insulating washers shall be 2 sets of 1/8-inch thick phenolic. Sleeves, gaskets and insulating washers shall have a dielectric constant of 300 Volts per mil, minimum. Steel washers shall fit well within the bolt facing on the flange. Insulating washers shall fit within the bolt facing the flange over the outside diameter of the sleeve.

2.14 PETROLATUM TAPE

A. Petrolatum tape system shall be Trenton Primer and #1 Wax-tape, as manufactured by Trenton Corp., or Denso Paste and Densyl Tape by Denso North America, Inc., or approved equivalent.

2.15 PIPE TAPE COATING REPAIR

A. Products and procedures used to repair pipe tape coating to be as per AWWA C-209.

PART 3 - EXECUTION

3.1 STORAGE OF MATERIALS

A. All materials and equipment to be used in construction shall be stored in such a manner to be protected from detrimental effects from the elements. If warehouse storage cannot be provided, materials and equipment shall be stacked well above ground level and protected from the elements with plastic sheeting or other method as appropriate.

3.2 EXCAVATION AND BACKFILL

A. Buried wires shall have a minimum cover of 24 inches.

B. Caution tape shall be installed above buried wire. Caution tape shall be installed a minimum of 6 inches above underground wires and conduits.

C. Anode wire identification tags shall be placed on the wires prior to placing wire in conduit or backfilling.

3.3 TEST STATIONS

A. Test stations shall be installed at the approximate locations shown on the Drawings. Flush mounted test stations shall be located behind the curb and other areas not subject to vehicular traffic. The CONTRACTOR shall field verify final location of the test stations. Wire identifiers shall be placed on all wire prior to backfill and installation of test stations.

B. The CONTRACTOR shall notify the owner of foreign utility piping for which foreign pipeline crossing test stations are to be installed. Notification shall be provided at least 2 weeks in advance. Test leads to foreign pipelines shall be installed in the presence and to the satisfaction of a representative of the foreign pipeline owner.

C. The CONTRACTOR shall provide global positioning system (GPS) coordinates of each test station location with a minimum accuracy of 1 meter or 3 feet. The CONTRACTOR shall submit the GPS coordinates of the test stations to the ENGINEER after installation.

3.4 WIRES

A. Buried wires shall be laid straight without kinks. Each wire run shall be continuous in length and free of joints or splices, unless otherwise indicated. Care shall be taken during installation to avoid punctures, cuts or other damage to the wire insulation. Damage to insulation shall require replacement of the entire length of wire at the CONTRACTOR's expense.

B. At least 18 inches of slack (coiled) shall be left for each wire at each flush-to-grade test station. Wire slack shall be sufficient to allow removal of wire extension for testing. Wire shall not be bent into a radius of less than 2 inches.

C. The wire conduits must be of sufficient diameter to accommodate the wires. This shall be determined by the number and size of wires in accordance with the applicable codes and standards.

3.5 WIRE IDENTIFIERS

A. All wires shall be coded with wire identifiers.

B. Wire identifiers shall be placed on the wires prior to backfill.

3.6 EXOTHERMIC WELD CONNECTIONS

A. Exothermic weld connections shall be installed in the manner and at the locations indicated. Coating materials shall be removed from the surface over an area of sufficient size to make the connection. The surface shall be cleaned to bare metal by grinding or filing prior to welding the conductor. The use of resin impregnated grinding wheels will not be allowed. A copper sleeve shall be fitted over the conductor. Only enough insulation shall be removed such that the copper conductor can be placed in the welding mold.

B. The CONTRACTOR shall be responsible for testing all test lead and bond wire welds. The ENGINEER, at his or her discretion, shall witness these tests.

C. After the weld has cooled, all slag shall be removed and the metallurgical bond shall be tested for adherence by the CONTRACTOR. A 22-ounce hammer shall be used for adherence testing by striking a blow to the weld. Care shall be taken to avoid hitting the wires. All defective welds shall be removed and replaced.

D. After backfilling pipe, all test lead pairs shall be tested for broken welds using a standard ohmmeter. The resistance shall not exceed 150% of the theoretical wire resistance as determined from published wire data.

E. The CONTRACTOR shall inspect both the interior and exterior of the pipe to confirm that all coatings and linings removed or damaged as a result of the welding have been repaired. The CONTRACTOR shall furnish all materials, clean surfaces and repair protective coatings and linings damaged as a result of the welding. Repair of any coating or lining damaged during welding shall be performed in accordance with coating or lining manufacturer's recommendations.

F. All exposed surfaces of the copper and steel shall be covered with insulating materials as indicated.

G. For dielectrically coated pipes, a bitumastic coating shall be applied to all exothermic weld locations. The coating shall be covered with a plastic weld cap. All surfaces must be clean, dry and free of oil, dirt, loose particles, and all other foreign materials prior to application of the coating.

3.7 JOINT BONDS

A. Bond wires shall be provided across flexible couplings and all nonwelded joints, as necessary to ensure electrical continuity, except where insulating joints have been installed to provide electrical isolation. Joint bonds shall be of the size and number shown on the Drawings and installed as indicated. The bond wires shall be at least 18 inches long and shall be installed so as to allow for movement of at least 2 inches in the pipe joint. The wire shall be attached by exothermic welding. At least 2 bonds shall be provided between all discontinuous joints.

3.8 INSULATING JOINTs/DIELECTRIC UNIONs

A. Insulating joints shall be installed to effectively isolate metallic piping from foreign metallic structures. The CONTRACTOR shall test the performance of these insulating joints before and after backfill.

B. Before backfill, the CONTRACTOR shall test the insulating joint using a Gas Electronics Model No. 601 Insulation Checker, or approved equivalent. If the testing results indicate less than 100% insulation, the insulating joints shall be repaired and retested at the CONTRACTOR's expense.

C. After backfill, testing shall be performed by measurement of native pipe-to-soil potentials at both sides of the insulating joint. If the difference in native pipe-to-soil potentials on both sides of the insulating joint is within +/-50 milliVolts, then additional testing shall be performed as follows. Temporary cathodic protection current shall be circulated on one side of the insulating joint. "On" and "Instant Off" pipe-to-soil potentials shall be measured on the other side of the insulating joint. If the "Instant Off" potential is more negative than the native potential, the insulating joint shall be considered deficient and shall be repaired and retested at the CONTRACTOR's expense.

3.9 PETROLATUM TAPE SYSTEM APPLICATION

A. Petrolatum tape system shall be applied on insulating joints and as indicated in the Drawings. Petrolatum tape system shall be applied in accordance with NACE RP0375, and these Specifications. The materials shall be applied according to the Manufacturer's recommendations.

B. All loose scale shall be removed from the surface to be coated with hand tools (wire brush, scraper, rags). Debris and moisture shall be wiped from surface with clean rag. Petrolatum tape shall be applied immediately after applying the primer, using a 1-inch overlap. A spiral wrap shall be used and a slight tension shall be applied to ensure that there are no air pockets or voids. After applying the tape, the applicator shall firmly press and smooth out all lap seams and crevice areas. The tape shall be in tight intimate contact with all surfaces.

3.10 GALVANIC ANODE INSTALLATION

A. Prepackaged anodes shall be installed at the locations indicated. Plastic or paper wrapping shall be removed from the anode prior to lowering the anode into the hole. Anodes shall not be suspended by the lead wires. Anodes shall be backfilled with native soil. Upon completion of compaction of backfill to the top of the anode, and prior to filling the hole and compacting the backfill to the surface, a minimum of 10 gallons of water shall be poured into the hole to saturate the prepackaged anode backfill and surrounding soil.

B. Backfilling with native soil shall proceed in 6-inch lifts, compacting the soil around the anode during each lift until the backfill has reached grade. Damage to the canvas bag, anode-to-wire connection, copper wire or wire insulation will require replacement of the entire assembly. Anodes shall not be backfilled prior to inspection and approval.

C. Anode lead wires shall be installed as shown in the Drawings, and attached to the panel board.

D. Contact the Corrosion Section, with a 48-hour notice, at 619-247-9290 to witness the installation of anodes.

3.11 CASING INSULATORs

A. Casing insulators shall be installed as indicated in the Drawings to effectively isolate the pipeline from the casing. The CONTRACTOR shall test the performance of the casing insulators before and after backfill.

B. After backfill, testing shall be performed by measurement of native pipe-to-soil potentials on the pipeline and the casing at both ends of the casing. If the difference in native pipe-to-soil potentials is greater than 50 milliVolts, the casing shall be considered isolated from the pipeline. If the difference in native pipe-to-soil potentials between pipe and casing is less than 50 milliVolts, then additional testing shall be performed as follows. Temporary cathodic protection current shall be applied to the pipeline. "On" and "Instant Off" pipe-to-soil potentials shall be measured on the pipeline and the casing at both ends of the casing. If the "Instant Off" potential of

the casing is more negative than the native potential of the casing, the pipe is not isolated from the casing and shall be repaired and retested at the CONTRACTOR's expense.

3.12 CONTINUITY TESTING

A. Continuity testing of joint bonds shall be performed by the CONTRACTOR's qualified corrosion technician as defined in this Section after backfill. The electrical continuity test may additionally be performed before backfill at the CONTRACTOR's option.

B. The pipe shall be tested for electrical continuity. Continuity shall be verified using the linear resistance method. The pipe shall be tested in spans that are no less than 250 feet unless the pipe is shorter than 250 feet and no more than 1,000 feet. Each test span shall have two test leads connected to the pipe at each end. Existing test stations can be used. A direct current shall be applied through the pipe using two of four test leads. The potential across the test span shall be measured using the other two test leads. The current applied and voltage drop shall be recorded for a minimum of three different current levels.

C. The theoretical resistance of the pipe shall be calculated. It shall take into account the pipe wall thickness, material, and joint bonds.

D. Acceptance of the test span; The average measured resistance shall be compared to the theoretical resistance of the pipe and bond wires. If the measured resistance is greater than 125% of the theoretical resistance, then the joint bonds shall be considered deficient and shall be repaired and retested at the CONTRACTOR's expense. If the measured resistance is less than 100% of the theoretical resistance then the test and/or calculated theoretical resistance shall be considered deficient and the test span shall be retested and/or recalculated at the CONTRACTOR's expense. If the piping forms a loop which allows current to flow both in and out of the test span, then consideration shall be made for current circulating through both the loop and the test span.

3.13 SYSTEM CHECKOUT

A. Upon completion of the installation, the CONTRACTOR shall provide testing of the completed system by a qualified corrosion technician and the data shall be reviewed by a Corrosion Engineer to ensure conformance with the Contract Documents, NACE SP0169, and NACE RP0286. Contact the Corrosion Section, with a 48-hour notice, at 619-247-9290 to witness the cathodic protection system checkout and any cathodic protection testing.

B. The testing described herein shall be in addition to and not substitution for any required testing of individual items at the manufacturer's plant and during installation.

C. Testing shall be performed at all test leads of all test stations and at the locations of exposed pipe as soon as possible after installation of the cathodic protection system.

D. Testing shall include the following and shall be conducted in accordance with NACE TM0497:

1. Measure and record native pipe-to-soil, casing-to-soil and anode-to-soil potentials at all test locations.

2. Verify electrical isolation at all insulating joints and casing insulators per NACE RP0286.

3. Confirm electrical continuity of the pipeline in accordance with this Section.

4. Measure and record the "On" and "Instant Off" structure-to-soil potentials at each location.

5. Measure and record the current output of each anode.

E. Test results shall be analyzed to determine compliance with NACE SP0169.

F. Test results shall be analyzed to determine if stray current interference is present. Stray current interference is defined as a +/-50 milliVolt shift in a pipeline's pipe-to-soil potential that is caused by a foreign current source. Stray current interference shall be tested on the project pipeline and foreign pipelines that have a reasonable chance of being affected by stray currents.

G. The CONTRACTOR shall provide a written report, prepared by the Corrosion Engineer, documenting the results of the testing and recommending corrective work, as required to comply with the Contract Documents. Any deficiencies of systems tested shall be repaired and re-tested by the CONTRACTOR at no additional cost to the OWNER.

END OF SECTION

SUPPLEMENTARY SPECIAL PROVISIONS

APPENDICES

APPENDIX A

ADDENDUM TO MITIGATED NEGATIVE DECLARATION

City of San Diego
Development Services

Advanced Planning and
Engineering Division
(619) 446-5460

ADDENDUM TO
MITIGATED NEGATIVE DECLARATION No. 255100
SCH No. 2011091045

Project No. 310650

SUBJECT: University Avenue Pipeline Cast Iron Replacement Project MAYORAL APPROVAL to allow for the replacement of approximately 21,094 linear feet (LF) of water pipes. The project would replace 16 to 36-inch cast iron mains with 16-inch Polyvinyl Chloride (PVC) water main pipes. Conventional open-trench excavation and backfill is proposed for pipeline construction in all areas except for one segment on Robinson Avenue. A trenchless construction methodology would be used to install the pipeline along Robinson Avenue that crosses under State Highway 163. Trenchless construction involves excavation using a horizontal directional drill from an entry pit to a receiving pit.

In addition, approximately 1,322 linear feet of water pipe would be abandoned. The project would be located in the Uptown and North Park Community Plan areas, all within the public right-of-way and would affect portions of the following streets and adjacent alley ways: West Lewis Street, Hawk Street, Washington Street, Fifth Avenue, University Avenue, Robinson Avenue, Park Boulevard, Oregon Street, and Polk Avenue. Applicant: City of San Diego, Public Works Department, Architectural Engineering and Parks Design Division.

I. PROJECT DESCRIPTION:

As mentioned above the open trench method of construction, except for the segment under the 163, would be employed to install the new 16-inch PVC water pipeline and appurtenances. Trench depths for the water line would vary from 5-17 feet deep depending on the topography of the area with the majority of the trenching at 5-7 feet deep. The widths of the trenches would be approximately three to five feet wide. The segment of pipeline along Robinson Avenue that crosses the Interstate 163 would require trenchless construction to cross under Highway. Trenchless construction involves excavation using jack and bore technology from an entry pit to a receiving pit. The segment of pipeline along University Avenue that would cross over Highway 163 would be installed through existing empty cells located in the bridge that crosses the highway.

Other components of the projects would include abandonment and potholing. Abandonment would involve plugging both ends of the existing pipe with concrete, through existing manholes, and would not disturb the surface or subsurface. Potholing is employed to verify utility crossings. Additional improvements would consist of replacing

curb ramps, new pavement and/or slurry, the removal and/or replacement of street trees and the removal and/or replacement of street lights.

Cast iron pipe replacement would consist of five segments:

a. University Street Pipeline – Replace existing 20 inch, 24 inch, 30 inch and 36 inch cast iron mains with 16 inch PVC pipe. The Project limits are from the intersection of Polk Avenue and Oregon Street to the intersection of West Lewis Street and Stephens Street. The total length of the University Street Pipeline replacement is approximately 16,220 feet.

b. Park Pipeline – Replace 16 inch cast iron and asbestos cement main in Park Boulevard from University Street to Robinson Avenue with 16 inch PVC pipe. The total length of the Park Pipeline replacement is approximately 750 feet.

c. 5th Avenue Pipeline – Replace 24 inch cast iron main in 5th Avenue from University Street to Robinson Avenue with 16 inch PVC pipe. The total length of the 5th Avenue Pipeline replacement is approximately 500 feet.

d. Robinson Avenue Pipeline – Replace 16 inch cast iron main in Robinson Avenue from Park Boulevard to 5th Avenue with 16 inch PVC pipe. The total length of the Robinson Avenue Pipeline replacement is approximately 4,260 feet.

e. Segment of University Street Pipeline (390 Zone) – Replace 24 inch and 30 inch cast iron mains with 36 inch cement mortar lined and coated steel pipeline. This segment, within North Park Community Park, connects to the Perishing Street Pipeline. The total length of the University Street Pipeline replacement is approximately185 feet.

All work would occur within the public right-of-way (ROW) in developed streets and alleys. Activated work hours would occur during the daytime, Monday through Friday. The project would comply with the requirements described in the *Standard Specifications for Public Works Construction,* and California Department of Transportation *Manual of Traffic Controls for construction and Maintenance Work Zones.* A traffic control plan would be prepared and implemented in accordance with the *City of San Diego Standard Drawings Manual of Traffic Control for Construction and Maintenance Work Zones.*

II. ENVIRONMENTAL SETTING:

The project would be located in the public right-of-way and is not in or adjacent to the City's Multi-Habitat Planning Area (MHPA). The following portions of streets and adjacent alleys would be affected by the project: Ulric Street, Comstock Street, Dunlop Street, Burroughs Street, Westinghouse Street and Linda Vista Street. All of these streets are located within the Linda Vista Community Planning area (Figures 1and 2).

III. PROJECT BACKGROUND:

A Citywide Pipelines Projects Mitigated Negative Declaration (MND) was prepared by the City of San Diego's Environmental Analysis Section (EAS) and was certified by City Council on November 30, 2011 (resolution number 307122). The Citywide Pipelines Projects MND provides for the inclusion of subsequent pipeline projects that are located within the public right-of-way and would not result in any direct impacts to sensitive biological resources. Pursuant to the City of San Diego's Municipal Code Section 128.036(b) all addenda for environmental documents certified more than 3 years before the date of application shall be distributed for public review for 14 calendar days along with the previously certified environmental document. Therefore this addendum is not being distributed for a 14 calendar day public review.

Historical Resources (Archaeology)

The Citywide Pipelines Projects MND concluded that pipeline projects located within the public right of way could result in significant environmental impacts relating to historical and paleontological resources. A record search of the California Historic Resources Information System (CHRIS) digital database was reviewed to determine presence or absence of potential resources within the project sites. Several archaeological resources were identified within one mile of the project areas but none are within the project alignments. However, since the project is located on the City's Historic Sensitivity Map and it would require archaeological monitoring. Compliance with the Mitigation, Monitoring and Reporting Program would reduce all potential impacts to Historical Resources to below a level of CEQA significance.

Historical Resources (Built Environment)

Two segments of the project located on University Avenue and Robison Avenue would cross State Highway 163. State Route 163 is within the Cabrillo Highway Historic District (HRB No. 441). The segment along Robinson Avenue would be installed through a trenchless methodology described above. The pipeline would be located underneath the highway with minimal above ground disturbances. The pipeline along University Highway 163 would be installed through existing empty cells located in the bridge that crosses the highway.

MND No. 255100 concluded that pipeline projects located within the public right of way could result in significant environmental impacts to Historical Resources (Built Environment). Any near-term or future project which is located within a designated historical district would be subject to review by qualified historical staff to determine whether the project would have an adverse effect on the district requiring specific mitigation. The project was reviewed by qualified historic review staff and it was determined that the project would not result in significant impacts to the district and mitigation was not required.

Paleontological Resources

The geologic Lindavista formation underlies the University Avenue Pipeline Cast Iron Replacement Project. With respect to paleontological fossil resource potential, the Lindavista formation is assigned a moderate sensitivity. Based on the sensitivity of the affected formation and the proposed excavation depths, construction of the project could result in significant impacts to paleontological resources. To reduce this impact to below a level of significance, excavation within previously undisturbed formations at a depth of 10 or more feet would be monitored by a qualified paleontologist or paleontological monitor. Any significant paleontological resources encountered would be recovered and curated in accordance with the Mitigation Monitoring and Reporting Program (MMRP) detailed in Section V.

IV. DETERMINATION:

The City of San Diego previously prepared a Mitigated Negative Declaration No. **255100** for the project described in the attached MND and Initial Study.

Based upon a review of the current project, it has been determined that:

a. There are no new significant environmental impacts not considered in the previous MND;
b. No substantial changes have occurred with respect to the circumstances under which the project is undertaken; and
c. There is no new information of substantial importance to the project.

Therefore, in accordance with Section 15164 of the State CEQA Guidelines this addendum has been prepared. No public review of this addendum is required.

V. MITIGATION, MONITORING AND REPORTING PROGRAM INCORPORATED INTO THE PROJECT:

A. GENERAL REQUIREMENTS – PART I
Plan Check Phase (prior to permit issuance)

1. Prior to the issuance Bid Opening/Bid Award or beginning any construction related activity on-site, the Development Services Department (DSD) Director's Environmental Designee (ED) shall review and approve all Construction Documents (CD), (plans, specification, details, etc.) to ensure the MMRP requirements have been incorporated.

2. In addition, the ED shall verify that the MMRP Conditions/Notes that apply ONLY to the construction phases of this project are included VERBATIM, under the heading, "**ENVIRONMENTAL/MITIGATION REQUIREMENTS**."

3. These notes must be shown within the first three (3) sheets of the construction documents in the format specified for engineering construction document templates as shown on the City website:

   http://www.sandiego.gov/development-services/industry/standtemp.shtml

4. The **TITLE INDEX SHEET** must also show on which pages the "Environmental/Mitigation Requirements" notes are provided.

B. GENERAL REQUIREMENTS – PART II
Post Plan Check (After permit issuance/Prior to start of construction)

1. **PRE CONSTRUCTION MEETING IS REQUIRED TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.** The PERMIT HOLDER/OWNER is responsible to arrange and perform this meeting by contacting the CITY RESIDENT ENGINEER (RE) of the Field Engineering Division and City staff from MITIGATION MONITORING COORDINATION (MMC). Attendees must also include the Permit holder's Representative(s), Job Site Superintendent and the following consultants:

   Paleontologist, Archaeologist and Native American Monitor

   Note: Failure of all responsible Permit Holder's representatives and consultants to attend shall require an additional meeting with all parties present.

   CONTACT INFORMATION:
   a) The PRIMARY POINT OF CONTACT is the **RE** at the **Field Engineering Division – 858-627-3200**
   b) For Clarification of ENVIRONMENTAL REQUIREMENTS, it is also required to call **RE and MMC at 858-627-3360**

2. **MMRP COMPLIANCE:** This Project, Project Tracking System (PTS) 310650, shall conform to the mitigation requirements contained in the associated Environmental Document and implemented to the satisfaction of the DSD's ED, MMC and the City Engineer (RE). The requirements may not be reduced or changed but may be annotated (i.e. to explain when and how compliance is being met and location of verifying proof, etc.). Additional clarifying information may also be added to other relevant plan sheets and/or specifications as appropriate (i.e., specific locations, times of monitoring, methodology, etc

   Note:
   Permit Holder's Representatives must alert RE and MMC if there are any discrepancies in the plans or notes, or any changes due to field conditions. All conflicts must be approved by RE and MMC BEFORE the work is performed.

3. **OTHER AGENCY REQUIREMENTS:** Evidence that any other agency requirements or permits have been obtained or are in process shall be submitted to the RE and MMC for review and acceptance prior to the beginning of work or within one

week of the Permit Holder obtaining documentation of those permits or requirements. Evidence shall include copies of permits, letters of resolution or other documentation issued by the responsible agency.
Not Applicable for this project.

4. **MONITORING EXHIBITS:** All consultants are required to submit, to RE and MMC, a monitoring exhibit on a 11x17 reduction of the appropriate construction plan, such as site plan, grading, landscape, etc., marked to clearly show the specific areas including the **LIMIT OF WORK**, scope of that discipline's work, and notes indicating when in the construction schedule that work will be performed. When necessary for clarification, a detailed methodology of how the work will be performed shall be included.

5. **OTHER SUBMITTALS AND INSPECTIONS:** The Permit Holder/Owner's representative shall submit all required documentation, verification letters, and requests for all associated inspections to the RE and MMC for approval per the following schedule:

Document Submittal/Inspection Checklist

Issue Area	*Document submittal*	*Associated Inspection/Approvals/Note*
General	Consultant Qualification Letters	Prior to Pre-construction meeting
General	Consultant Const. Monitoring	Prior to or at the Pre-Construction meeting
Paleontology	Paleontology Reports	Paleontology observation
Archaeology	Archaeological Reports	Archaeological observation
Final MMRP		Final MMRP Inspection

PALEONTOLOGICAL RESOURCES

I. Prior to Permit Issuance or Bid Opening/Bid Award

A. Entitlements Plan Check
   1. Prior to permit issuance or Bid Opening/Bid Award, whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Paleontological Monitoring have been noted on the appropriate construction documents.

B. Letters of Qualification have been submitted to ADD
   1. Prior to Bid Award, the applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the paleontological monitoring program, as defined in the City of San Diego Paleontology Guidelines.
   2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the paleontological monitoring of the project.

3. Prior to the start of work, the applicant shall obtain approval from MMC for any personnel changes associated with the monitoring program.

II. Prior to Start of Construction

A. Verification of Records Search

1. The PI shall provide verification to MMC that a site specific records search has been completed. Verification includes, but is not limited to a copy of a confirmation letter from San Diego Natural History Museum, other institution or, if the search was in-house, a letter of verification from the PI stating that the search was completed.
2. The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.

B. PI Shall Attend Precon Meetings

1. Prior to beginning any work that requires monitoring, the Applicant shall arrange a Precon Meeting that shall include the PI, Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified paleontologist shall attend any grading/excavation related Precon Meetings to make comments and/or suggestions concerning the Paleontological Monitoring program with the Construction Manager and/or Grading Contractor.
    a. If the PI is unable to attend the Precon Meeting, the Applicant shall schedule a focused Precon Meeting with MMC, the PI, RE, CM or BI, if appropriate, prior to the start of any work that requires monitoring.
2. Acknowledgement of Responsibility for Curation (CIP or Other Public Projects) The applicant shall submit a letter to MMC acknowledging their responsibility for the cost of curation associated with all phases of the paleontological monitoring program.
3. Identify Areas to be Monitored

a. a. Prior to the start of any work that requires monitoring, the PI shall submit a Paleontological Monitoring Exhibit (PME) based on the appropriate construction documents (reduced to 11x17) to MMC for approval identifying the areas to be monitored including the delineation of grading/excavation limits. Monitoring shall begin at depths below 10 feet from existing grade or as determined by the PI in consultation with MMC. The determination shall be based on site specific records search data which supports monitoring at depths less than ten feet.

    b. b. The PME shall be based on the results of a site specific records search as well as information regarding existing known soil conditions (native or formation).
    c. c. MMC shall notify the PI that the PME has been approved.

d. 4. When Monitoring Will Occur

    a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.
    b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This

request shall be based on relevant information such as review of final construction documents which indicate conditions such as depth of excavation and/or site graded to bedrock, presence or absence of fossil resources, etc., which may reduce or increase the potential for resources to be present.

5. Approval of PME and Construction Schedule
   After approval of the PME by MMC, the PI shall submit to MMC written authorization of the PME and Construction Schedule from the CM.

III. During Construction

A. Monitor Shall be Present During Grading/Excavation/Trenching

1. The monitor shall be present full-time during grading/excavation/trenching activities including, but not limited to mainline, laterals, jacking and receiving pits, services and all other appurtenances associated with underground utilities as identified on the PME that could result in impacts to formations with high and/or moderate resource sensitivity. **The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the PME.**
2. The PI may submit a detailed letter to MMC during construction requesting a modification to the monitoring program when a field condition such as trenching activities that do not encounter formational soils as previously assumed, and/or when unique/unusual fossils are encountered, which may reduce or increase the potential for resources to be present.
3. The monitor shall document field activity via the Consultant Site Visit Record (CSVR). The CSVR's shall be faxed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion)**, and in the case of ANY discoveries. The RE shall forward copies to MMC.

B. Discovery Notification Process

1. In the event of a discovery, the Paleontological Monitor shall direct the contractor to temporarily divert trenching activities in the area of discovery and immediately notify the RE or BI, as appropriate.
2. The Monitor shall immediately notify the PI (unless Monitor is the PI) of the discovery.
3. The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC within 24 hours by fax or email with photos of the resource in context, if possible.

C. Determination of Significance

1. The PI shall evaluate the significance of the resource.
   a. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC indicating whether additional mitigation is required. The determination of significance for fossil discoveries shall be at the discretion of the PI.

b. If the resource is significant, the PI shall submit a Paleontological Recovery Program (PRP) and obtain written approval of the program from MMC, MC and/or RE. PRP and any mitigation must be approved by MMC, RE and/or CM before ground disturbing activities in the area of discovery will be allowed to resume.
   (1). Note: For pipeline trenching projects only, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."
c. If resource is not significant (e.g., small pieces of broken common shell fragments or other scattered common fossils) the PI shall notify the RE, or BI as appropriate, that a non-significant discovery has been made. The Paleontologist shall continue to monitor the area without notification to MMC unless a significant resource is encountered.
d. The PI shall submit a letter to MMC indicating that fossil resources will be collected, curated, and documented in the Final Monitoring Report. The letter shall also indicate that no further work is required.
   (1). Note: For Pipeline Trenching Projects Only. If the fossil discovery is limited in size, both in length and depth; the information value is limited and there are no unique fossil features associated with the discovery area, then the discovery should be considered not significant.
   (2). Note, for Pipeline Trenching Projects Only: If significance can not be determined, the Final Monitoring Report and Site Record shall identify the discovery as Potentially Significant.

D. Discovery Process for Significant Resources - Pipeline Trenching Projects
The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities including but not limited to excavation for jacking pits, receiving pits, laterals, and manholes to reduce impacts to below a level of significance.

1. Procedures for documentation, curation and reporting
   a. One hundred percent of the fossil resources within the trench alignment and width shall be documented in-situ photographically, drawn in plan view (trench and profiles of side walls), recovered from the trench and photographed after cleaning, then analyzed and curated consistent with Society of Invertebrate Paleontology Standards. The remainder of the deposit within the limits of excavation (trench walls) shall be left intact and so documented.
   b. The PI shall prepare a Draft Monitoring Report and submit to MMC via the RE as indicated in Section VI-A.
   c. The PI shall be responsible for recording (on the appropriate forms for the San Diego Natural History Museum) the resource(s) encountered during the Paleontological Monitoring Program in accordance with the City's Paleontological Guidelines. The forms shall be submitted to the San Diego Natural History Museum and included in the Final Monitoring Report.
   d. The Final Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

IV. Night and/or Weekend Work

A. If night and/or weekend work is included in the contract
   1. When night and/or weekend work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
   2. The following procedures shall be followed.
      a. No Discoveries
         In the event that no discoveries were encountered during night and/or weekend work, The PI shall record the information on the CSVR and submit to MMC via the RE via fax by 8AM on the next business day.
      b. Discoveries
         All discoveries shall be processed and documented using the existing procedures detailed in Sections III - During Construction.
      c. Potentially Significant Discoveries
         If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction shall be followed.
      d. The PI shall immediately contact the RE and MMC, or by 8AM on the next business day to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.

B. If night and/or weekend work becomes necessary during the course of construction
   1. The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
   2. The RE, or BI, as appropriate, shall notify MMC immediately.

C. All other procedures described above shall apply, as appropriate.

V. Post Construction

A. Preparation and Submittal of Draft Monitoring Report
   1. The PI shall submit two copies of the Draft Monitoring Report (even if negative), prepared in accordance with the Paleontological Guidelines which describes the results, analysis, and conclusions of all phases of the Paleontological Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90 days following the completion of monitoring,
      a. For significant paleontological resources encountered during monitoring, the Paleontological Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
      b. Recording Sites with the San Diego Natural History Museum
         The PI shall be responsible for recording (on the appropriate forms) any significant or potentially significant fossil resources encountered during the Paleontological Monitoring Program in accordance with the City's Paleontological Guidelines, and submittal of such forms to the San Diego Natural History Museum with the Final Monitoring Report.
   2. MMC shall return the Draft Monitoring Report to the PI via the RE for revision or, for preparation of the Final Report.
   3. The PI shall submit revised Draft Monitoring Report to MMC via the RE for approval.
   4. MMC shall provide written verification to the PI of the approved report.

5. MMC shall notify the RE or BI, as appropriate, of receipt of all Draft Monitoring Report submittals and approvals.

B. Handling of Fossil Remains
   1. The PI shall be responsible for ensuring that all fossil remains collected are cleaned and catalogued.

C. Curation of artifacts: Deed of Gift and Acceptance Verification
   1. The PI shall be responsible for ensuring that all fossil remains associated with the monitoring for this project are permanently curated with an appropriate institution.
   2. The PI shall submit the Deed of Gift and catalogue record(s) to the RE or BI, as appropriate for donor signature with a copy submitted to MMC.
   3. The RE or BI, as appropriate shall obtain signature on the Deed of Gift and shall return to PI with copy submitted to MMC.
   4. The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE or BI and MMC.

D. Final Monitoring Report(s)
   1. The PI shall submit two copies of the Final Monitoring Report to MMC (even if negative), within 90 days after notification from MMC of the approved report.
   2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.

HISTORICAL RESOURCES (ARCHAEOLOGY)

I. Prior to Permit Issuance or Bid Opening/Bid Award

A. Entitlements Plan Check
   1. Prior to permit issuance or Bid Opening/Bid Award, whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Archaeological Monitoring and Native American monitoring have been noted on the applicable construction documents through the plan check process.

B. Letters of Qualification have been submitted to ADD
   1. Prior to Bid Award, the applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the archaeological monitoring program, as defined in the City of San Diego Historical Resources Guidelines (HRG). If applicable, individuals involved in the archaeological monitoring program must have completed the 40-hour HAZWOPER training with certification documentation.
   2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the archaeological monitoring of the project meet the qualifications established in the HRG.
   3. Prior to the start of work, the applicant must obtain written approval from MMC for any personnel changes associated with the monitoring program.

II. Prior to Start of Construction

A. Verification of Records Search
   1. The PI shall provide verification to MMC that a site specific records search (1/4 mile radius) has been completed. Verification includes, but is not limited to a copy of a confirmation letter from South Coastal Information Center, or, if the search was in-house, a letter of verification from the PI stating that the search was completed.
   2. The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.
   3. The PI may submit a detailed letter to MMC requesting a reduction to the ¼ mile radius.

B. PI Shall Attend Precon Meetings
   1. Prior to beginning any work that requires monitoring; the Applicant shall arrange a Precon Meeting that shall include the PI, Native American consultant/monitor (where Native American resources may be impacted), Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified Archaeologist and Native American Monitor shall attend any grading/excavation related Precon Meetings to make comments and/or suggestions concerning the Archaeological Monitoring program with the Construction Manager and/or Grading Contractor.
      a. If the PI is unable to attend the Precon Meeting, the Applicant shall schedule a focused Precon Meeting with MMC, the PI, RE, CM or BI, if appropriate, prior to the start of any work that requires monitoring.

   2. Acknowledgement of Responsibility for Curation (CIP or Other Public Projects) The applicant shall submit a letter to MMC acknowledging their responsibility for the cost of curation associated with all phases of the archaeological monitoring program.
   3. Identify Areas to be Monitored
      a. Prior to the start of any work that requires monitoring, the PI shall submit an Archaeological Monitoring Exhibit (AME) (with verification that the AME has been reviewed and approved by the Native American consultant/monitor when Native American resources may be impacted) based on the appropriate construction documents (reduced to 11x17) to MMC identifying the areas to be monitored including the delineation of grading/excavation limits.
      b. The AME shall be based on the results of a site specific records search as well as information regarding the age of existing pipelines, laterals and associated appurtenances and/or any known soil conditions (native or formation).
      c. MMC shall notify the PI that the AME has been approved.
   4. When Monitoring Will Occur
      a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.
      b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This request shall be based on relevant information such as review of final construction documents which indicate conditions such as age of existing pipe

to be replaced, depth of excavation and/or site graded to bedrock, etc., which may reduce or increase the potential for resources to be present.

5. Approval of AME and Construction Schedule
   After approval of the AME by MMC, the PI shall submit to MMC written authorization of the AME and Construction Schedule from the CM.

III. During Construction

A. Monitor Shall be Present During Grading/Excavation/Trenching

1. The Archaeological Monitor shall be present full-time during all soil disturbing and grading/excavation/trenching activities which could result in impacts to archaeological resources as identified on the AME. **The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the AME.**
2. The Native American consultant/monitor shall determine the extent of their presence during soil disturbing and grading/excavation/trenching activities based on the AME and provide that information to the PI and MMC. If prehistoric resources are encountered during the Native American consultant/monitor's absence, work shall stop and the Discovery Notification Process detailed in Section III.B-C and IV.A-D shall commence.
3. The PI may submit a detailed letter to MMC during construction requesting a modification to the monitoring program when a field condition such as modern disturbance post-dating the previous grading/trenching activities, presence of fossil formations, or when native soils are encountered that may reduce or increase the potential for resources to be present.
4. The archaeological and Native American consultant/monitor shall document field activity via the Consultant Site Visit Record (CSVR). The CSVR's shall be faxed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion)**, and in the case of ANY discoveries. The RE shall forward copies to MMC.

B. Discovery Notification Process

1. In the event of a discovery, the Archaeological Monitor shall direct the contractor to temporarily divert all soil disturbing activities, including but not limited to digging, trenching, excavating or grading activities in the area of discovery and in the area reasonably suspected to overlay adjacent resources and immediately notify the RE or BI, as appropriate.
2. The Monitor shall immediately notify the PI (unless Monitor is the PI) of the discovery.
3. The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC within 24 hours by fax or email with photos of the resource in context, if possible.
4. No soil shall be exported off-site until a determination can be made regarding the significance of the resource specifically if Native American resources are encountered.

C. Determination of Significance

1. The PI and Native American consultant/monitor, where Native American resources are discovered shall evaluate the significance of the resource. If Human Remains are involved, follow protocol in Section IV below.
    a. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC indicating whether additional mitigation is required.
    b. If the resource is significant, the PI shall submit an Archaeological Data Recovery Program (ADRP) and obtain written approval of the program from MMC, CM and RE. ADRP and any mitigation must be approved by MMC, RE and/or CM before ground disturbing activities in the area of discovery will be allowed to resume. **Note: If a unique archaeological site is also an historical resource as defined in CEQA Section 15064.5, then the limits on the amount(s) that a project applicant may be required to pay to cover mitigation costs as indicated in CEQA Section 21083.2 shall not apply.**
        (1). Note: For pipeline trenching and other linear projects in the public Right-of-Way, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."
    c. If the resource is not significant, the PI shall submit a letter to MMC indicating that artifacts will be collected, curated, and documented in the Final Monitoring Report. The letter shall also indicate that that no further work is required.
        (1). Note: For Pipeline Trenching and other linear projects in the public Right-of-Way, if the deposit is limited in size, both in length and depth; the information value is limited and is not associated with any other resource; and there are no unique features/artifacts associated with the deposit, the discovery should be considered not significant.
        (2). Note, for Pipeline Trenching and other linear projects in the public Right-of-Way, if significance can not be determined, the Final Monitoring Report and Site Record (DPR Form 523A/B) shall identify the discovery as Potentially Significant.

D. Discovery Process for Significant Resources - Pipeline Trenching and other Linear Projects in the Public Right-of-Way

The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities or for other linear project types within the Public Right-of-Way including but not limited to excavation for jacking pits, receiving pits, laterals, and manholes to reduce impacts to below a level of significance:

1. Procedures for documentation, curation and reporting
    a. One hundred percent of the artifacts within the trench alignment and width shall be documented in-situ, to include photographic records, plan view of the trench and profiles of side walls, recovered, photographed after cleaning and analyzed and curated. The remainder of the deposit within the limits of excavation (trench walls) shall be left intact.
    b. The PI shall prepare a Draft Monitoring Report and submit to MMC via the RE as indicated in Section VI-A.

c. The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) the resource(s) encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines. The DPR forms shall be submitted to the South Coastal Information Center for either a Primary Record or SDI Number and included in the Final Monitoring Report.
d. The Final Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

IV. Discovery of Human Remains

If human remains are discovered, work shall halt in that area and no soil shall be exported off-site until a determination can be made regarding the provenance of the human remains; and the following procedures as set forth in CEQA Section 15064.5(e), the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5) shall be undertaken:

A. Notification
1. Archaeological Monitor shall notify the RE or BI as appropriate, MMC, and the PI, if the Monitor is not qualified as a PI. MMC will notify the appropriate Senior Planner in the Environmental Analysis Section (EAS) of the Development Services Department to assist with the discovery notification process.
2. The PI shall notify the Medical Examiner after consultation with the RE, either in person or via telephone.

B. Isolate discovery site
1. Work shall be directed away from the location of the discovery and any nearby area reasonably suspected to overlay adjacent human remains until a determination can be made by the Medical Examiner in consultation with the PI concerning the provenience of the remains.
2. The Medical Examiner, in consultation with the PI, will determine the need for a field examination to determine the provenience.
3. If a field examination is not warranted, the Medical Examiner will determine with input from the PI, if the remains are or are most likely to be of Native American origin.

C. If Human Remains **ARE** determined to be Native American
1. The Medical Examiner will notify the Native American Heritage Commission (NAHC) within 24 hours. By law, **ONLY** the Medical Examiner can make this call.
2. NAHC will immediately identify the person or persons determined to be the Most Likely Descendent (MLD) and provide contact information.
3. The MLD will contact the PI within 24 hours or sooner after the Medical Examiner has completed coordination, to begin the consultation process in accordance with CEQA Section 15064.5(e), the California Public Resources and Health & Safety Codes.
4. The MLD will have 48 hours to make recommendations to the property owner or representative, for the treatment or disposition with proper dignity, of the human remains and associated grave goods.

5. Disposition of Native American Human Remains will be determined between the MLD and the PI, and, if:
    a. The NAHC is unable to identify the MLD, OR the MLD failed to make a recommendation within 48 hours after being notified by the Commission, OR;
    b. The landowner or authorized representative rejects the recommendation of the MLD and mediation in accordance with PRC 5097.94 (k) by the NAHC fails to provide measures acceptable to the landowner, THEN
    c. To protect these sites, the landowner shall do one or more of the following:
        (1) Record the site with the NAHC;
        (2) Record an open space or conservation easement; or
        (3) Record a document with the County.
    d. Upon the discovery of multiple Native American human remains during a ground disturbing land development activity, the landowner may agree that additional conferral with descendants is necessary to consider culturally appropriate treatment of multiple Native American human remains. Culturally appropriate treatment of such a discovery may be ascertained from review of the site utilizing cultural and archaeological standards. Where the parties are unable to agree on the appropriate treatment measures the human remains and items associated and buried with Native American human remains shall be reinterred with appropriate dignity, pursuant to Section 5.c., above.

D. If Human Remains are **NOT** Native American
1. The PI shall contact the Medical Examiner and notify them of the historic era context of the burial.
2. The Medical Examiner will determine the appropriate course of action with the PI and City staff (PRC 5097.98).
3. If the remains are of historic origin, they shall be appropriately removed and conveyed to the San Diego Museum of Man for analysis. The decision for internment of the human remains shall be made in consultation with MMC, EAS, the applicant/landowner, any known descendant group, and the San Diego Museum of Man.

V. Night and/or Weekend Work

A. If night and/or weekend work is included in the contract
1. When night and/or weekend work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
2. The following procedures shall be followed.
    a. No Discoveries
    In the event that no discoveries were encountered during night and/or weekend work, the PI shall record the information on the CSVR and submit to MMC via fax by 8AM of the next business day.
    b. Discoveries
    All discoveries shall be processed and documented using the existing procedures detailed in Sections III - During Construction, and IV – Discovery of Human Remains. Discovery of human remains shall always be treated as a significant discovery.
    c. Potentially Significant Discoveries

If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction and IV-Discovery of Human Remains shall be followed.

d. The PI shall immediately contact the RE and MMC, or by 8AM of the next business day to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.

B. If night and/or weekend work becomes necessary during the course of construction
   1. The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
   2. The RE, or BI, as appropriate, shall notify MMC immediately.

C. All other procedures described above shall apply, as appropriate.

VI. Post Construction

A. Submittal of Draft Monitoring Report
   1. The PI shall submit two copies of the Draft Monitoring Report (even if negative), prepared in accordance with the Historical Resources Guidelines (Appendix C/D) which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90 days following the completion of monitoring. **It should be noted that if the PI is unable to submit the Draft Monitoring Report within the allotted 90-day timeframe as a result of delays with analysis, special study results or other complex issues, a schedule shall be submitted to MMC establishing agreed due dates and the provision for submittal of monthly status reports until this measure can be met.**
      a. For significant archaeological resources encountered during monitoring, the Archaeological Data Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
      b. Recording Sites with State of California Department of Parks and Recreation The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) any significant or potentially significant resources encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines, and submittal of such forms to the South Coastal Information Center with the Final Monitoring Report.
   2. MMC shall return the Draft Monitoring Report to the PI via the RE for revision or, for preparation of the Final Report.
   3. The PI shall submit revised Draft Monitoring Report to MMC via the RE for approval.
   4. MMC shall provide written verification to the PI of the approved report.
   5. MMC shall notify the RE or BI, as appropriate, of receipt of all Draft Monitoring Report submittals and approvals.

B. Handling of Artifacts
   1. The PI shall be responsible for ensuring that all cultural remains collected are cleaned and catalogued
   2. The PI shall be responsible for ensuring that all artifacts are analyzed to identify function and chronology as they relate to the history of the area; that faunal

material is identified as to species; and that specialty studies are completed, as appropriate.

C. Curation of artifacts: Accession Agreement and Acceptance Verification
   1. The PI shall be responsible for ensuring that all artifacts associated with the survey, testing and/or data recovery for this project are permanently curated with an appropriate institution. This shall be completed in consultation with MMC and the Native American representative, as applicable.
   2. When applicable to the situation, the PI shall include written verification from the Native American consultant/monitor indicating that Native American resources were treated in accordance with state law and/or applicable agreements. If the resources were reinterred, verification shall be provided to show what protective measures were taken to ensure no further disturbance occurs in accordance with Section IV – Discovery of Human Remains, Subsection C.
   3. The PI shall submit the Accession Agreement and catalogue record(s) to the RE or BI, as appropriate for donor signature with a copy submitted to MMC.
   4. The RE or BI, as appropriate shall obtain signature on the Accession Agreement and shall return to PI with copy submitted to MMC.
   5. The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE or BI and MMC.

D. Final Monitoring Report(s)
   1. The PI shall submit one copy of the approved Final Monitoring Report to the RE or BI as appropriate, and one copy to MMC (even if negative), within 90 days after notification from MMC of the approved report.
   2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.

The above Mitigation Monitoring and Reporting Program will require additional fees and/or deposits to be collected prior to the issuance of building permits, certificates or occupancy and/or final maps to ensure the successful completion of the monitoring program.

_____ June 27, 2013

Senior Planner, Jeff Szymanski Date of Report
Development Services Department

Analyst: Jeff Szymanski

Attachments:
Figures 1 and 2: Vicinity Map for University Avenue Pipeline Cast Iron Replacement Project
Mitigated Negative Declaration #255100

The Addendum to Mitigated Negative Declaration No. 310650 was not distributed for public review pursuant to San Diego Municipal Code (SDMC) Chapter 6, Article 9, Paragraph 69.0211

(Addenda to Environmental Reports). The SDMC requires that addenda to environmental documents certified more than three years previously are to be distributed by Development Services Department (DSD) for a fourteen calendar-day public review period, along with the previously certified environmental document. Therefore, because the original Mitigated Negative Declaration was certified on November 30, 2011, which is within the three year timeline, no additional public review is required. The final Addendum was distributed to the following groups and individuals for public disclosure in accordance with CEQA Section 15164.

VI. DISTRIBUTION:

Copies or notice of this Addendum were distributed to:

City of San Diego

- Councilmember Gloria, District 3
- City Attorney (MS 56A)
  - Shannon Thomas (MS 93C)
- Development Services Department
  - Historical Resources Board (87)
  - Helene Deisher (MS 501)
  - Myra Herrmann (MS 501)
- Public Works – Engineering & Capital Projects Department
  - Mike Bajoua (MS 908A)
- Library Dept.-Gov. Documents MS 17 (81)
  - North Park Branch Library
  - Mission Hills Branch Library
  - University Heights Branch Library

Other

- San Diego Gas and Electric (114)
- Uptown Planning Group
- North Park Planning Group
- Natural History Museum (166)
- South Coastal Information Center @ San Diego State University (210)
- San Diego Historical Society (211)
- Carmen Lucas (206)
- Clint Linton (215b)
- San Diego Archaeological Center (212)
- Save Our Heritage Organization (214)
- Ron Christman (215)
- Louie Guassac (215A)
- Frank Brown (216)
- San Diego County Archaeological Society (218)

Kumeyaay Cultural Heritage Preservation (223)
Kumeyaay Cultural Repatriation Committee (225)
Native American Distribution (NOTICE ONLY 225A-R)

Copies of the addendum, the final MND, the Mitigation Monitoring and Reporting Program, and any technical appendices may be reviewed in the office of the Entitlements Division of the Development Services Department, or purchased for the cost of reproduction.

APPENDIX B

FIRE HYDRANT METER PROGRAM

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 1 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

Reference

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.

3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. POLICY

4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.

4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.

4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:

a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.

b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:

1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.

3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).

4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).

5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).

6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.

7. All private fire hydrant meters shall have backflow devices attached when installed.

8. The customer must maintain and repair their own private meters and private backflows.

9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.

10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.

12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.

13. The outlet shall have a 2 ½ "National Standards Tested (NST) fire hydrant male coupling.

14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).

4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.

4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

4.6 **Conditions and Processes for Issuance of a Fire Hydrant Meter**

Process for Issuance

a. Fire hydrant meters shall only be used for the following purposes:

1. Temporary irrigation purposes not to exceed one year.

2. Construction and maintenance related activities (see Tab 2).

b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.

c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.

d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.

e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.

f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.

g. After the fees have been paid and an account has been created, the

meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

4.7 **Relocation of Existing Fire Hydrant Meters**

a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as "Hotline"), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter's relocation.

b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.

c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

4.8 **Disconnection of Fire Hydrant Meter**

a. After ten (10) months a "Notice of Discontinuation of Service" (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.

b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

for removal of the meter.

c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.

d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.

e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. EXCEPTIONS

5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. MOBILE METER

6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

a) **Vehicle Mounted Meters**: Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters**: Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

    1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.

    2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

7. FEE AND DEPOSIT SCHEDULES

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. Theses deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. UNAUTHORIZED USE OF WATER FROM A HYDRANT

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

Larry Gardner
Water Department Director

Tabs:
1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index:
Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders

Application for Fire Hydrant Meter (EXHIBIT A)

City of San Diego PUBLIC UTILITIES Water & Wastewater

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Application Date	Requested Install Date:

Meter Information

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) Zip:	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, If so , explain:		
Estimated Duration of Meter Use: ☐ Check Box if Reclaimed Water		

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
*Business license#	*Contractor license#		
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: (PERSON IN ACCOUNTS PAYABLE)			Phone: ( )
Site Contact Name and Title:			Phone: ( )
Responsible Party Name:			Title:
Cal ID#			Phone: ( )
Signature:		Date:	

Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter

☐ Fire Hydrant Meter Removal Request	Requested Removal Date:	
Provide Current Meter Location if Different from Above:		
Signature:	Title:	Date:
Phone: ( )	Pager: ( )	

☐ City Meter	☐ Private Meter		
Contract Acct #:	Deposit Amount: $ 936.00	Fees Amount: $ 62.00	
Meter Serial #	Meter Size: 05	Meter Make and Style: 6-7	
Backflow #	Backflow Size:	Backflow Make and Style:	
Name:	Signature:	Date:	

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number:_____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter #_____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619)_____-_____.

Sincerely,

Water Department

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D

SAMPLE CITY INVOICE

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123						Contractor's Name:					
Project Name:						Contractor's Address:					
SAP No. (WBS/IO/CC)											
City Purchase Order No.						Contractor's Phone #:				Invoice No.	
Resident Engineer (RE):						Contractor's Fax #:				Invoice Date:	
RE Phone#:		RE Fax#:				Contact Name:			Billing Period:		
Item #	Item Description	Contract Authorization				Previous Estimate		This Estimate		Totals to Date	
		Unit	Qty	Price	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1	2 Parallel 4" PVC C900	LF	1,380	$34.00	$46,920.00						
2	48" Primary Steel Casing	LF	500	$1,000.00	$500,000.00						
3	2 Parallel 12" Secondary Steel	LF	1,120	$53.00	$59,360.00						
4	Construction and Rehab of PS 49	LS	1	$150,000.00	$150,000.00						
5	Demo	LS	1	$14,000.00	$14,000.00						
6	Install 6' High Chain Link Fence	LS	1	$5,600.00	$5,600.00						
7	General Site Restoration	LS	1	$3,700.00	$3,700.00						
8	10" Gravity Sewer	LF	10	$292.00	$2,920.00						
9	4" Blow Off Valves	EA	2	$9,800.00	$19,600.00						
10	Bonds	LS	1	$16,000.00	$16,000.00						
11	Field Orders	AL	1	80,000	$80,000.00						
11.1	**Field Order 1**	**LS**	**5,500**	**$1.00**	$5,500.00						
11.2	**Field Order 2**	**LS**	**7,500**	**$1.00**	$7,500.00						
11.3	**Field Order 3**	**LS**	**10,000**	**$1.00**	$10,000.00						
11.4	**Field Order 4**	**LS**	**6,500**	**$1.00**	$6,500.00						
12	**Certified Payroll**	**LS**	**1**	**$1,400.00**	$1,400.00						
CHANGE ORDERS											
Change Order 1		**4,890**									
Items 1-4					**$11,250.00**						
Item 5-Deduct Bid Item 3		**LF**	**120**	**-$53.00**	**($6,360.00)**						
Change Order 2		**160,480**									
Items 1-3					**$95,000.00**						
Item 4 Deduct Bid Item 1		**LF**	**380**	**-$340.00**	**($12,920.00)**						
Item 5-Encrease bid Item 9		**LF**	**8**	**$9,800.00**	**$78,400.00**						
Change Order 3 (Close Out)		**-121,500**									
Item 1 Deduct Bid Item 3			**53**	**-500.00**	**($26,500.00)**						
Item 2 Deduct Bid Item 4		**LS**	**-1**	**45,000.00**	**($45,000.00)**						
Items 3-9			**1**	**-50,500.00**	**($50,500.00)**						
SUMMARY								Total This	$ -	**Total Billed**	$0.00
A. Original Contract Amount							**Retention and/or Escrow Payment Schedule**				
B. Approved Change Order 1 Thru 3							Total Retention Required as of this billing				
C. Total Authorized Amount (A+B)							Previous Retention Withheld in PO or in Escrow				
D. Total Billed to Date							Add'l Amt to Withhold in PO/Transfer in Escrow:				
E. Less Total Retention (5% of D)							Amt to Release to Contractor from PO/Escrow:				
F. Less Total Previous Payments											
G. Payment Due Less Retention						**Contractor Signature and Date:**					
H. Remaining Authorized Amount											

APPENDIX E

LOCATION MAP

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG. This product may contain information reproduce with permission granted by RAND MCNALLY & COMPANY© to SanGIS. This map is copyrighted by RAND MCNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior written permission of RAND MCNALLY & COMPANY

University Pipeline Cast Iron Replacement

SENIOR ENGINEER
Iraj Asgharzadeh
619-533-5105

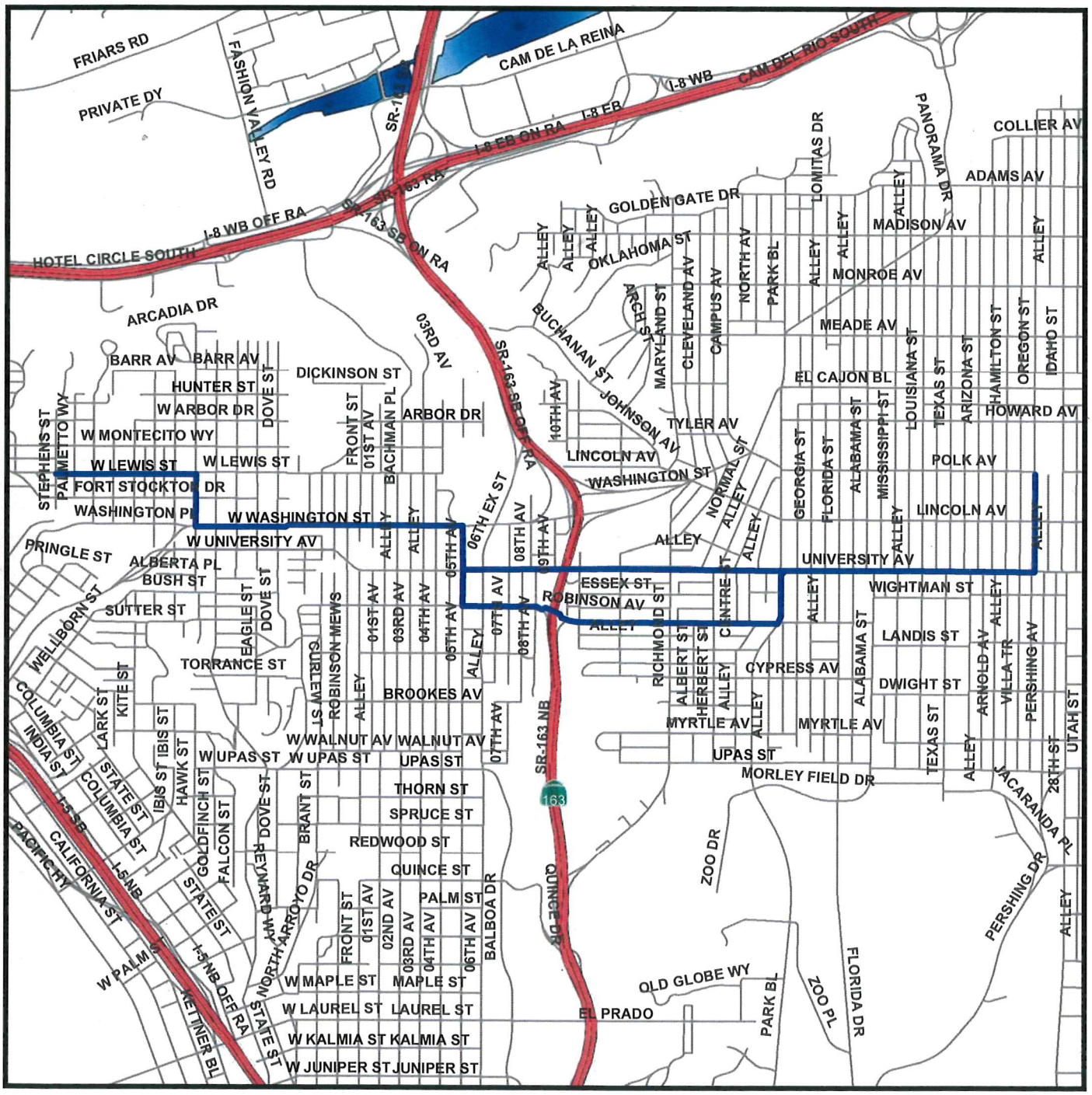
PROJECT MANAGER
Mike Bajoua
619-533-4628

PROJECT ENGINEER
Francisco Bordon
619-533-6625

PUBLIC INFORMATION OFFICER
Scott Robinson
619-533-3749

CITY OF SAN DIEGO
PUBLIC WORKS
DEPARTMENT

Architectural, Engineering & Parks Division



Proposed University Pipeline Replacement

N
W E
S
No Scale

University Ave Pipeline Replacement Appendix E - Location Map Volume 1 of 2 (Rev. Jul. 2014)

COMMUNITY NAME: University Heights, Hillcrest, North Park COUNCIL DISTRICT: 3

SAP ID: S-11021 (W)

Date: May 10, 2011

SanGIS

APPENDIX F

ADJACENT PROJECTS

The City of San Diego

Construction Projects In Your Neighborhood...

Uptown • North Park • Hillcrest • University Heights • Mission Hills • Balboa Park

CITY OF SAN DIEGO PUBLIC WORKS DEPARTMENT

WATER & SEWER REPLACEMENT IMPROVEMENTS

- B13203: Water and Sewer Group Job 954 (s) *Jun 2015 - Sep 2017
- B00422: Sewer Group Job 672A *Jul 2013 - Jun 2014
- B11041: Water Group Job 945 *Nov 2013 - Jan 2015
- B11039: Water Group Job 943 *Jun 2014 - Oct 2014
- S11022: Upas Street Pipeline Replacement *Apr 2014 - Oct 2017
- B13013: Pipeline Rehabilitation V-1 *Jan 2014 - Apr 2015
- B13157: Sewer Group Job 835 *Feb 2017 - Nov 2017
- B00429: Buchanan Canyon Sewer B (UP) *Mar 2015 - Dec 2015
- S11021: University Avenue Pipeline Replacement *Dec 2014 - Jun 2017
- B00452: Sewer & Water Group 701 (S) B00039: Sewer & Water Group 701 (W) *Aug 2015 - Jun 2016
- B11040: Water Group 944 *Jan 2014 - Feb 2015
- S12010: 30th Street Pipeline Replacement *May 2017 - Feb 2019
- S12015:Pacific Beach Pipeline South (W) B12117: Pacific Beach Pipeline South (S) *Oct 2015 - Oct 2018

LEGEND

FACILITY UPGRADE IMPROVEMENTS

- L12002- SDFD Station Alerting *Feb 2014 - Dec 2015
- S00788: Fire Station #5- HILLCREST *Jan 2015 - Jan 2016

STREET & RESURFACING IMPROVEMENTS

- JOC-04: FY14 Asphalt JOC Group 4 *Sep 2014 - Dec 2014
- FY16-01: FY16 Asphalt Overlay Group 1 *Apr 2016 - Dec 2016
- S00915: University Avenue Mobility *Mar 2016 - May 2017
- S00863: Georgia Street Bridge Improvements *May 2015 - Apr 2016
- UU407: Residential Project Block 2D3 *Jun 2019 - Jun 2021
- FY14-C1: FY14 Concrete Group 1 *Apr 2014 - Jul 2014
- S00988: Five Points Neighborhood Pedestrian Improvements *May 2015 - Sep 2015
- S10040: North Park/Main Street Sidewalk Improvements *Feb 2015 - Aug 2015
- B13146: Howard Avenue UU71 *Jun 2015 - Jan 2017
- B11147: Citywide Streetlights Fy2011 *May 2014 - Oct 2014
- S11008: Mission Hills Historic Street Lighting *Nov 2013 - Apr 2015
- B00994: Park/Cypress Pop-outs/Lighted Crosswalk *Feb 2014 - Jul 2014

*Schedules are subject to change.
Note: Map is not to scale.
Updated June 2014

PROJECT INFO LINE • (619) 533-4207

WEBSITE • http://www.sandiego.gov/cip/

EMAIL • engineering@sandiego.gov

APPENDIX G

HYDROSTATIC DISCHARGE FORM

Hydrostatic Discharge Requirements Certification (Discharge Events ≥ 325,850 gpd)

All discharge activities related to this project comply with the Regional Water Quality Control Board (RWQCB) Order No. R9-2010-0003, General Permit for Discharges of Hydrostatic Test Water and Potable Water to Surface Water and Storm Drains as referenced by (http://www.waterboards.ca.gov/sandiego/board_decisions/adopted_orders/2010/R9-2010-0003.pdf), and as follows:

Discharged water has been dechlorinated to below **0.1** *(mg/l)* level; and effluent has been maintained between **6** and **9** *(pH)* based on:							***Is Discharge Within Limits?***		**Comment/Action Taken**
Event #	**Discharge Date**	**Item Tested**	**Duration**	**Amount (gpd)**	**Description of the Proposed Discharge**	**Method and Test Result**	***YES***	***NO***	
		Chlorine							
		pH							
		Chlorine							
		pH							
		Chlorine							
		pH							
		Chlorine							
		pH							

Qualified Personnel Conducting Tests (Print Name):	***SAP No.(s):***
***Signed:**	**Project Name:**

* By signing, I hereby certify and affirm under penalty of perjury that all of the statements and conditions for hydrostatic discharge events are correct.

Have any thresholds been exceeded? Per Order No. R9-2010-0003, would this be a reportable discharge and must be reported **within 24 hours** of the event? [Reportable discharge would include violation of maximum gallons per day, any upset which exceeds any effluent limit]

APPENDIX H

HAZARDOUS LABELS/FORMS

INCIDENT/RELEASE ASSESSMENT FORM [1]

If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

Questions for Incident Assessment:	YES	NO
1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	❒	❒
2. Did anyone, other than employees in the immediate area of the release, evacuate?	❒	❒
3. Did the release cause off-site damage to public or private property?	❒	❒
4. Is the release greater than or equal to a reportable quantity (RQ)?	❒	❒
5. Was there an uncontrolled or unpermitted release to the air?	❒	❒
6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	❒	❒
7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	❒	❒
8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	❒	❒
9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	❒	❒
10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	❒	❒

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

Call 911 in an emergency

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a "no" response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

[1] This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DESCRIPTION Incident #_____

Date/Time Discovered	Date/Time Discharge	Discharge Stopped ☐ Yes ☐ No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: ☐Yes ☐No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

3. CHEMICAL INFORMATION

Chemical	Quantity ☐ GAL ☐ LBS ☐ FT^3
Chemical	Quantity ☐ GAL ☐ LBS ☐ FT^3
Chemical	Quantity ☐ GAL ☐ LBS ☐ FT^3
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A

BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER ( ) -

B

INCIDENT DATE MO DAY YR	TIME OES NOTIFIED (use 24 hr time)	OES CONTROL NO.

C

INCIDENT ADDRESS LOCATION	CITY / COMMUNITY	COUNTY ZIP

D

CHEMICAL OR TRADE NAME (print or type)	CAS Number

CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A ☐	CHECK IF RELEASE REQUIRES NOTIFI - CATION UNDER 42 U.S.C. Section 9603 (a) ☐

PHYSICAL STATE CONTAINED ☐ SOLID ☐ LIQUID ☐ GAS	PHYSICAL STATE RELEASED ☐ SOLID ☐ LIQUID ☐ GAS	QUANTITY RELEASED

ENVIRONMENTAL CONTAMINATION ☐ AIR ☐ WATER ☐ GROUND ☐ OTHER	TIME OF RELEASE	DURATION OF RELEASE ___DAYS ___HOURS ___MINUTES

E

ACTIONS TAKEN

F

KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information)

☐ ACUTE OR IMMEDIATE (explain) _____

☐ CHRONIC OR DELAYED (explain) _____

☐ NOTKNOWN (explain)

G

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

H

COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)

I

CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

REPORTING FACILITY REPRESENTATIVE (print or type) _____

SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____

EMERGENCY RELEASE FOLLOW-UP NOTICE
REPORTING FORM INSTRUCTIONS

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO:

State Emergency Response Commission (SERC)
Attn: Section 304 Reports
Hazardous Materials Unit
3650 Schriever Avenue
Mather, CA 95655

NOTE: Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

APPENDIX I

LONG-TERM REVEGETATION MAINTENANCE CONTRACT

LONG-TERM REVEGETATION MAINTENANCE CONTRACT

This Long-Term Revegetation Maintenance Contract [Contract] is made and entered into by and between the City of San Diego [City], a municipal corporation, and [insert name of the Contractor, to be identified after award] [Contractor], who may be individually or collectively referred to herein as a "Party" or the "Parties."

RECITALS

A. Concurrent with the Contract execution, the Parties entered into an agreement [Agreement] for the construction of **University Ave Pipeline Replacement (**Project), (SAP) WBS number **S-11021**, Bid No. **K-15-5716-DBB-3**.

B. In accordance with the Agreement, the Contractor shall enter into this contract with the City for the purpose of implementing and fulfilling long-term revegetation maintenance and monitoring requirements in accordance with the City of San Diego Municipal Code and the Contract Documents for the specified elopement(s) of University Ave Pipeline Replacement Maintenance Requirements.

C. The Contractor is ready and willing to fulfill its maintenance requirements in accordance with the terms of this contract i.e., Maintenance Requirements.

NOW, THEREFORE, in consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows:

INTRODUCTORY PROVISIONS

A. **Recitals Incorporated.** The above referenced Recitals are true and correct and are incorporated into this contract by this reference.

B. **Exhibits Incorporated.** All Exhibits and Attachments referenced in this contract are incorporated into this contract by this reference.

C. **Contract Term.** This contract shall be effective on the date the Notice of Completion for the Agreement is executed, and it shall be effective until completion of the Work, described in Section 1.1 below.

D. **Terms and Conditions.** This contract is subject to the terms and conditions of the Agreement included in The GREENBOOK and The WHITEBOOK i.e., Part 1, Sections 212, 308, and 700 through Section 708 and The WHITEBOOK EOCP Section except as follows.

SECTION 1: SCOPE OF WORK

1.1 **General.** The Contractor shall fulfill the Project's Maintenance Requirements [Work] as identified in the scope of work attached as Exhibit A in a manner satisfactory to the City.

The Contractor shall provide all equipment, labor, and materials necessary to perform the **Work** as described in the written in Exhibit A, at the direction of the City.

1.2 Work Schedule. After receiving notification from the City, the Contractor shall create a comprehensive schedule of Work for performance of this contract [Schedule] for the City's approval. The Schedule shall include routine work and inspection and infrequent operations such as repairs, fertilization, aerification, watering, and pruning.

The City will approve the Schedule prior to the commencement of the Work. The City may require the Contractor to revise the Schedule. The Contractor shall not revise the Schedule unless the revisions have received the prior written approval of the City.

1.3 Commencement of Work & Maintenance Period. The Contract shall begin on the date indicated in the field notification to be issued by City to the Contractor in accordance with the Project's Agreement [Field Notification], and shall continue for **36** months. A copy of the Field Notification shall be attached hereto as Exhibit B.

1.4 Performance of Work. The Work shall be performed in accordance with the manufacturer's recommendations.

1.5 License. The Contractor shall hold the following licenses in good standing:

a) C-27 State Contractor's License. Alternatively, the Contractor shall retain the services of a Subcontractor with a C-27 State Contractor's License.

b) Pest Control Advisor's License. Alternatively, the Contractor shall retain the services of a licensed Pest Control Advisor.

c) Registration with the County Agriculture Commission.

d) Qualified Applicator's Certificate for Category B. This shall apply to any person supervising the use of pesticides, herbicides, or rodenticides.

e) City of San Diego Business License.

Prior to performing the Work, the Contractor shall complete and submit to the City the License Data Sheet. See Exhibit C.

1.6 Hours of Performance. The Contractor shall perform the Work between the hours of 6:00 a.m. and 6:00 p.m., Monday through Friday [Working Hours]. The City may, in its sole discretion, grant permission to Contractor to perform Work during non-Working Hours. Maintenance functions that generate excess noise, e.g., operations of power equipment which would cause annoyance to area residents, shall not begin before 7:00 a.m.

SECTION 2: ADMINISTRATION

2.1 Contract Administrator. The Public Works Department/Architectural, Engineering and Parks Division is the Contract Administrator for the Contract. The Contractor shall perform the Work under the direction of a designated representative of the Public Works Department. The City will communicate with the Contractor on all matters related to the administration of this contract and the Contractor's performance of the Work rendered hereunder. When this contract refers to communications to or with City, those communications shall be with the City, unless the City or this contract specifies otherwise. Further, when this contract requires an act or approval by City, that act or approval will be performed by the City.

2.2 Local Office. The Contractor shall maintain a local office with a competent company representative who can be reached during Normal Working Hours and who is authorized to discuss matters pertaining to this contract with the City. A local office is one located in San Diego County that can be reached by telephone and facsimile. An answering service in conjunction with a company email address for the designated company representative would fulfill this requirement. A mobile telephone shall not fulfill the requirement for a local office. All calls from the City shall be returned within a 1 hour period.

2.3 Emergency Calls. The Contractor shall have the capability to receive and to respond immediately to calls of an emergency nature. The City shall refer emergency calls to Contractor for immediate disposition. The Contractor shall provide City with a 24 hour emergency telephone number for this purpose.

2.4 Staffing. The Contractor shall furnish sufficient supervisory and working personnel capable of promptly accomplishing on schedule, and to the satisfaction of City, all Work required under this contract.

2.5 Contractor Inspections. The Contractor shall perform inspections of the Work site and prepare and submit to the City a Punchlist and dates of correction. The Punchlist shall include a comprehensive report of Work performed at the Work site to ensure 100% cover.

PART 3: WORK SITE MAINTENANCE

3.1 Use of Chemicals. The Contractor shall submit to City for approval sample labels and MSDS for all chemical herbicides, rodenticides and pesticides proposed for use under this contract. Materials included shall be limited to chemicals approved by the State of California Department of Agriculture.

The use of any chemical shall be based on the recommendations of a licensed pest control advisor. Annual PCA Pesticide Recommendations are required for each pesticide proposed to be used for the Work site covered by this contract. The use of chemicals shall conform to the current San Diego County Department of Agriculture regulations.

No chemical herbicide, rodenticide, or pesticide shall be applied until its use is approved, in writing, by City as appropriate for the purpose and area proposed.

The Contractor shall submit a monthly pesticide use report to City along with Contractor's invoices for payment. This report shall include a statement of all applications of herbicides, rodenticides, and pesticides, detailing the chemical used, undiluted quantity, rate of application, applicator's name, and the date and purpose of the application. For months in which no pesticides are applied, state "No Pesticide Used" on the report.

3.2 Irrigation Water. The Contractor shall diligently practice water conservation, including minimizing run-off or other waste. The Contractor shall turn off irrigation systems, if any, during periods of rainfall and at such other times when suspension of irrigation is desirable to conserve water and to remain within the guidelines of good horticulturally acceptable landscape maintenance practices. The Contractor's failure to properly manage and conserve water may result in deductions or other penalties.

If Contractor causes excessive use or waste of irrigation water, the estimated cost of that water shall be deducted from the monthly payment. Further, any monetary fines or other

damages assessed to City for Contractor's failure to follow water conservation regulations imposed by the City, the State of California, the County Water Authority, or other legal entity shall be Contractor's responsibility and may be deducted from the monthly payment.

3.3 **Payment for Water.** The Contractor shall pay for the water used in the maintenance of the Work site unless specified otherwise.

3.4 **Satisfactory Progression.** If the Revegetation Area is not progressing towards the required 100% Cover, as defined in the Scope of Work, in accordance with the Work Schedule, as determined by City, City may adjust monthly payments to Contractor accordingly.

SECTION 4: COMPENSATION

4.1 **Maximum Compensation.** The compensation for this contract shall not exceed $**[the Contractor's lump sum bid amount for this long-term maintenance contract; will be established during the award process]** [Contract Price].

4.2 **Wage Rates.** Refer to the Agreement for Prevailing wages requirements for this contract.

4.3 **Method of Payment and Reports.** The payments will be made monthly as a linear percentage of the Contract Price. As conditions precedent to payment, the Contractor shall submit every month a detailed invoice and report of maintenance work performed. The Contractor's failure to submit the required reports or certified payrolls as described in the Agreement shall constitute a basis for withholding of payment by the City.

4.4 **Final Payment.** The Contractor shall not receive the final payment until the following conditions have been completed to the City's satisfaction:

The item(s) of the work subject to this maintenance coverage as specified in Exhibit A [Maintenance Items] have been determined to be in compliance with the Agreement and this contract.

The Contractor has provided to the City a signed and notarized Affidavit of Disposal, a copy of which is attached to the Agreement, stating that all brush, trash, debris, and surplus materials resulting from the Work have been disposed of in a legal manner.

The Contractor has performed comprehensive and successful testing and checks of the Maintenance Items.

4.5 Notwithstanding sections 3.3 and 3.4, the Contractor may request that the City pay all or some of the compensation for the Contract at a time earlier than provided in those sections if the Contractor provides a surety bond acceptable to the City which secures performance of the Contract for the full remaining term. Early payment under this section and acceptability of such bond shall be at the City's sole discretion.

SECTION 5: BONDS AND INSURANCE

5.1 **Contract Bonds.** Prior to commencement of the Work, Contractor, at its sole cost and expense, shall provide to City the following bonds issued by a surety authorized to issue bonds in California and otherwise satisfactory to City:

A Payment Bond (Material and Labor Bond) in an amount not less than the Contract Price, to satisfy claims of material suppliers and mechanics and laborers employed by it on the Work. The Payment Bond shall be maintained by the Contractor in full force and effect until the Work is accepted by City and until all claims for materials and labor are paid, and shall otherwise comply with the California Civil Code.

A Performance Bond in an amount not less than the Contract Price to guarantee faithful performance of all Work, within the time prescribed, in a manner satisfactory to the City, and that all materials and workmanship will be free from original or developed defects. The Performance Bond shall remain in full force and effect until performance of the Work is completed as set forth in this contract.

5.2 **Insurance.** At all times during the term of this contract, the Contractor shall maintain insurance coverage as specified in the Agreement, Section 7-3, "LIABILITY INSURANCE."

The Contractor shall not begin the Work under this contract until it has complied with the following:

a) Obtain insurance certificates reflecting evidence of insurance as specified in the Agreement, Section 7-3, "LIABILITY INSURANCE" for:

1. Commercial General Liability

2. Commercial Automobile Liability

3. Worker's Compensation

The Contractor shall submit copies of any policy upon request by the City.

b) Confirm that all policies contain the specific provisions required in Section 7-3, "LIABILITY INSURANCE."

The Contractor shall not modify any policy or endorsement thereto which increases the City's exposure to loss for the duration of this contract.

SECTION 6: MISCELLANOUS

6.1 Illness and Injury Prevention Program. The Contractor shall comply with all the mandates of Senate Bill 198 and specifically shall have a written Injury Prevention Program on file with the City in accordance with all applicable standards, orders, or requirements of California Labor Code, Section 6401.7. This Program shall be on file prior to performance of any Work.

6.2 City Standard Provisions. This contract is subject to the following standard provisions. See The WHITEBOOK for details.

1. The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.

2. The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.

3. The City of San Diego Municipal Code §22.3224 as amended 11/24/08 by ordinance O-19808 for Pledge of Compliance.

4. The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776 (Stats. 1978, Ch. 1249).

5. Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.

6. The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).

7. The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

6.3 Taxpayer Identification Number. I.R.S. regulations require the City to have the correct name, address, and Taxpayer Identification Number (TIN) or Social Security Number (SSN) on file for businesses or persons who provide services or products to the City. This information is necessary to complete Form 1099 at the end of each tax year. As such, the Contractor shall provide the City with a Form W-9 upon execution of this contract.

6.4 Assignment. The Contractor shall not assign the obligations under this contract, whether by express assignment or by sale of the company, nor any monies due or to become due, without City's prior written approval. Any assignment in violation of this Section shall constitute a Default and is grounds for immediate termination of this contract, at the sole discretion of City. In no event shall any putative assignment create a contractual relationship between City and any putative assignee.

6.5 Independent Contractors. The Contractor and any Subcontractors employed by Contractor shall be independent contractors and not agents of City. Any provisions of this contract that may appear to give City any right to direct Contractor concerning the details of performing the Work, or to exercise any control over such performance, shall mean only that Contractor shall follow the direction of City concerning the end results of the performance.

6.6 Covenants and Conditions. All provisions of this contract expressed as either covenants or conditions on the part of the City or the Contractor shall be deemed to be both covenants and conditions.

6.7 Jurisdiction, Venue, and Attorney's Fees. The venue for any suit or proceeding concerning this contract, the interpretation or application of any of its terms, or any related disputes shall be in the County of San Diego, State of California. The prevailing Party in any such suit or proceeding shall be entitled to a reasonable award of attorney's fees in addition to any other award made in such suit or proceeding.

6.8 Successors in Interest. This Contract and all rights and obligations created by this contract shall be in force and effect whether or not any Parties to the Contract have been succeeded by another entity, and all rights and obligations created by this contract shall be vested and binding on any Party's successor in interest.

6.9 Integration. This Contract and the exhibits, attachments, and references incorporated into this contract fully express all understandings of the Parties concerning the matters covered in this contract. No change, alteration, or modification of the terms or conditions of this contract, and no verbal understanding of the Parties, their officers, agents, or employees shall be valid unless made in the form of a written change agreed to in writing by both Parties or an amendment to this contract agreed to by both Parties. All prior negotiations and agreements are merged into this contract.

6.10 Counterparts. This Contract may be executed in counterparts, which when taken together shall constitute a single signed original as though all Parties had executed the same page.

6.11 No Waiver. No failure of either the City or the Contractor to insist upon the strict performance by the other of any covenant, term or condition of this contract, nor any failure to exercise any right or remedy consequent upon a breach of any covenant, term, or condition of this contract, shall constitute a waiver of any such breach or of such covenant, term or condition. No waiver of any breach shall affect or alter this contract, and each and every covenant, condition, and term hereof shall continue in full force and effect to any existing or subsequent breach.

6.12 Severability. The unenforceability, invalidity, or illegality of any provision of this contract shall not render any other provision of this contract unenforceable, invalid, or illegal.

6.13 Drafting Ambiguities. The Parties agree that they are aware that they have the right to be advised by counsel with respect to the negotiations, terms and conditions of this contract, and the decision of whether to seek advice of counsel with respect to this contract is a decision which is the sole responsibility of each Party. This Contract shall not be construed in favor of or against either Party by reason of the extent to which each Party participated in the drafting of the Contract.

6.14 Signing Authority. The representative for each Party signing on behalf of a corporation, partnership, joint venture or governmental entity hereby declares that authority has been obtained to sign on behalf of the corporation, partnership, joint venture, or entity and agrees to hold the other Party or Parties hereto harmless if it is later determined that such authority does not exist.

Project Manager: To ensure that all signatures and at least one section of contract appear on the same page.

IN WITNESS WHEREOF, this Contract is executed by the City of San Diego, acting by and through its Public Works Department Director in accordance with PA2625 which will be routed to award a contract after Bid opening, and by Contractor.

Dated this _____ day of _____,__**[insert year]**.

THE CITY OF SAN DIEGO

By:_____

Mayor or designee

I HEREBY CERTIFY I can legally bind **[name of Contractor to be determined during DBB award process]** and that I have read this entire contract, this _____ day of _____, **[insert year]**.

By:_____

Printed Name:_____

Title:_____

I HEREBY APPROVE the form and legality of the foregoing Contract this

_____ day of _____, **[*insert year*]**.

Jan I. Goldsmith, City Attorney

By:_____

Printed Name:_____

Deputy City Attorney

EXHIBIT A

SCOPE OF WORK

I. Location of Work. The location of the Work to be performed [Revegetation Area] is shown on those Specifications and Drawings numbered **36656-83-D** through **36656-86-D** [Specifications], which are incorporated into this contract by this reference as though fully set forth herein.

II. Description of Work. The Contractor shall install, maintain, and monitor the Revegetation Area during the Monitoring Program in accordance with this contract and the Specifications such that the trees within the Revegetation Area are alive and healthy at the end of 36 months and all any other plants have provided coverage equal or greater than the pre-existing area on the last date of the Monitoring Program as set forth in the Work Schedule. The Work includes complete landscape maintenance consisting of irrigation, pruning, shaping and training of trees, shrubs, and ground cover plants; fertilization; weed control; control of all plant diseases and pests; and trash removal, and all other maintenance listed in this contract and as required to maintain the Revegetation Area in a safe condition and to maintain the plant material in good ecologically health at all times.

The work also includes monitoring of the Revegetation Area according to the schedule and methods specified in the above. The monitoring work shall include quarterly monitoring and reports on health of landscaping.

III. Method of Performing Work.

A. Irrigation. Irrigation shall be applied to container and salvaged plants at the discretion of the certified Arborist. Delivery techniques and schedules will vary depending on the availability of a sprinkler irrigation system and weather patterns. Timing of implementation is intended to use natural precipitation, but supplemental watering shall be applied when needed. Failure of an existing irrigation system to provide full and proper coverage shall not relieve Contractor of the responsibility to provide adequate irrigation with full and proper coverage to all areas.

1. In areas where an automatic sprinkler system is installed, Contractor shall periodically inspect the operation of the system for any malfunction. The maximum interval between inspections shall not exceed 7 days. The Contractor shall maintain all sprinkler systems in such a way as to guarantee proper coverage and full working capability, and shall make whatever adjustments may be necessary to prevent excessive run-off into streets, rights-of-way, or other areas not meant to be irrigated. The cost of wasted water may be charged to Contractor.

2. All areas not adequately covered by a sprinkler system shall be irrigated by a portable irrigation method to maintain healthy growth of the plants**.** The Contractor shall furnish all hoses, nozzles, sprinklers, etc. necessary to accomplish this supplementary irrigation. Care shall be exercised to prevent water waste, erosion, and/or detrimental seepage into existing underground improvements or structures.

3. Irrigation shall be accomplished as follows:

    a) Landscaped improved banks and slopes (if any) shall be irrigated Monday through Friday as required to maintain horticulturally acceptable growth and color, and to encourage deep rooting.

    b) Shrub beds (if any) shall be irrigated as required to maintain horticulturally acceptable growth and color, and to promote deep rooting. Shrub areas shall be irrigated at a rate which keeps surface runoff to a minimum. The irrigation rate shall be adjusted to the needs of shrub types, seasons and weather conditions.

    c) Planted and seeded areas shall be irrigated as required to maintain ecologically acceptable growth, form and health, and to promote deep rooting. Planted and seeded areas shall be irrigated at a rate which keeps surface runoff to a minimum. The irrigation rate shall be adjusted to the needs of plant types, seasons and weather conditions.

4. Maintenance of Irrigation System. The Contractor shall keep controller and valve boxes (if any) clear of soil and debris and shall maintain the irrigation system at no additional cost to City, including replacement, repair, adjustment, raising or lowering, straightening and any other operation required for the continued proper operation of the system from the "cold" side of the water meter throughout the Revegetation Area. The Contractor shall also be responsible for maintaining the painted surfaces of irrigation and lighting controller cabinets as well as the corresponding automatic irrigation battery numbers on the lids of the automatic control valve boxes (if any). The Contractor shall be responsible for light bulb replacements in controller cabinets as necessary.

    a) Repair or replacement includes: sprinkler system laterals (piping), sprinkler mains (pressure lines), vacuum breakers, sprinkler control valves, sprinkler controllers, sprinkler heads, sprinkler caps, sprinkler head risers, valve covers, boxes and lids (including electrical pull boxes and lids), valve sleeves and lids, quick coupler valves and hose bibs. Any replacement shall conform to the type and kind of existing system. Any deviation shall be approved in writing by City.

    b) Contractor shall repair irrigation systems which are damaged or altered in any way, including by acts of God, vandalism, vehicular damage, or theft.

5. Operation of Automatic Irrigation Controllers. Where the operation of automatic irrigation controllers is required as part of this contract, Contractor shall:

    i) Not duplicate any coded City key furnished by City for access and operation of the controller;

    ii) surrender all keys furnished by City, promptly at the end of the Contract term, or at any time deemed necessary by City to prevent serious loss to City;

iii) protect the security of City's property by keeping controller cabinet and building doors locked at all times; and

iv) refrain from using premises behind locked doors for storage of materials, supplies, or tools except as approved by City.

B. Tree Maintenance. Contractor shall maintain all trees in the revegetation area in their natural shapes. The Contractor shall perform pruning to promote the best growth habits, appearance, and health of the tree, and to prevent encroachment which blocks vision or is in any manner deemed undesirable by City. The Contractor is responsible for tree pruning that can be accomplished with a 12' pole saw by a worker standing on the ground. The Contractor shall not top trees.

1. Potential Hazards. The Contractor shall notify City within 24 hours of any tree that shows signs of root heaving or leaning, or is in any manner a potential safety hazard. The Contractor shall immediately reestablish trees and shrubs that are uprooted due to storms, if possible. If trees or shrubs cannot be reestablished, Contractor shall remove them immediately (including roots) and fill the holes until replacement planting is complete.

3. Staking. The Contractor shall securely stake any newly 2. Replacement. The Contractor shall completely remove and replace trees lost due to Contractor's faulty maintenance or negligence, as determined by City. The Contractor shall replace trees in kind and size as determined by City. If there is a difference in value between the tree lost and the replacement tree, City will deduct the difference from the Contract payment. The City shall determine the value of the tree lost using the latest International Society of Arboriculture (I.S.A.) guidelines for value determination.

   Planted trees and other trees needing support with 2 "lodge pole" type stakes placed on opposite sides of the tree outside the root ball and secured to the tree with at least two flexible rubber tree ties. The Contractor shall regularly inspect tree ties and stakes and reposition them as necessary to ensure against girdling and abrasion.

C. Fertilization. Contractor shall fertilize the Revegetation Area as necessary to meet the success criteria specified in the Revegetation Plan at each of the milestones listed and on the last date of the Monitoring Program as set forth in the Work Schedule Prior to any fertilization, Contractor shall submit to City Material Safety Data Sheets and a schedule of application showing the site, date, and approximate time of fertilizer application [Fertilizer Schedule]. The Fertilization Schedule, regardless of its intensity, timing, or the number of sites covered daily or weekly, shall not excuse Contractor from performing any other Work regularly required under this contract. All fertilization shall first be approved by the Arborist .

1. Contractor shall notify City at least 48 hours before beginning any fertilization. Fertilizer shall be delivered to the site only in the original unopened containers bearing the manufacturer's guaranteed analysis. Damaged packages shall not be accepted. The Contractor shall furnish City with duplicate signed, legible copies of all certificates and invoices for all fertilizer to be used for this contract. The

invoices shall state the grade, amount and quantity received. Both the copy to be retained by City and Contractor's copy shall be signed by City, on site, before any fertilizer may be used.

2. Fertilizers, if necessary, shall be applied at the direction of the Arborist and according to manufacturer's product specifications.

3. If deemed necessary by City to achieve required results, Contractor shall apply other materials as directed by City, including:

    i) iron chelate;

    ii) soil sulfur;

    iii) gypsum; or

    iv) surfactant enzymes such as Sarvon or Naiad.

4. Contractor shall adequately irrigate the fertilized area(s) immediately following the application of fertilizers and/or amendments to force fertilizer material to rest directly on the soil surface. Drip irrigated areas shall be adequately hand watered using quick coupler valves and hoses to dissolve fertilizer.

D. Weed Removal. Contractor shall completely remove weeds from the Revegetation Area, including all turf grass areas, shrub and ground cover areas, planters, tree wells, and cracks in paved areas, including sidewalks, parking lot, gutters and curbs, as shown on the Work Schedule. For the purposes of this Section, "Weed" means any undesirable or misplaced plant. The Contractor shall control Weeds by manual, mechanical, or chemical methods. The City may restrict the use of chemical weed control in certain areas.

E. Disease and Pest Control. The Contractor shall regularly inspect the Revegetation Area for the presence of disease and insect or rodent infestation. The Contractor shall notify City within 4 days if disease or insect or rodent infestation is discovered. In its notice to City, Contractor shall identify the disease, insect, or rodent and specify the control measures to be taken. Upon approval of City, Contractor shall implement the approved control measures, exercising extreme caution in the application of all sprays, dusts, or other materials utilized. The Contractor shall continue the approved control measures until the disease, insect, or rodent is controlled to the satisfaction of City.

1. All individuals who supervise the mixing and application of herbicides, pesticides, and rodenticides on behalf of Contractor shall possess valid Qualified Applicators Certificate for Category B issued to them by the State Department of Food and Agriculture.

2. Contractor shall utilize all safeguards necessary during disease, insect or rodent control operations to ensure safety of the public and the employees of Contractor, in accordance with current standard practices accepted by the State of California Department of Food and Agriculture. If Contractor is unable to control the pest

or disease, a pest control company will be hired and the cost shall be deducted from Contractor's monthly payment.

F. Plant Replacement. Except as provided in Section H below, Contractor shall notify City within 4 days of the loss of plant material due to any cause.

1. Contractor shall at no cost to City replace any tree, shrub, ground cover, or other plant which is damaged or lost as a result of Contractor's faulty maintenance or negligence. The size and species of replacement plant materials shall be as directed by City.

2. If so directed by City, Contractor shall replace any plant damaged or lost that is not a result of Contractor's faulty maintenance or negligence. The size and species of replacement plant materials shall be as directed by City. The City will pay for materials and labor.

3. City may determine that certain plants should be replaced in order to ensure maximum ecological health and overall aesthetic appearance of planting in the Revegetation Area. When City determines such replacement should occur, Contractor shall replace the plants as directed by City. City will pay for materials and labor.

G. Damage Reports. The Contractor shall notify City within 24 hours of any damage to the Work Area caused by accident, vandalism or theft.

H. Litter. The Contractor shall promptly dispose of all trash and debris at an appropriate City disposal site. The Contractor shall pay any and all fees associated with the disposal of debris or trash accumulated under the terms of this contract. The Contractor understands that disposal of refuse at City landfills is subject to a fee and that the Refuse Disposal Division can be contacted at (619) 573-1418 for fee information.

1. Contractor Generated Litter. The Contractor shall promptly remove all debris generated by Contractor's pruning, trimming, weeding, edging and other Work required by this contract. Immediately after working in streets, park walks, gutters, driveways, and paved areas, Contractor shall clean them in accordance with all applicable laws.

2. Third Party Generated Litter. Upon discovery Contractor shall remove all litter, including bottles, glass, cans, paper, cardboard, fecal matter, leaves, branches, metallic items, and other debris, from the Work site.

I. Monitoring: The Project Arborist will oversee all construction work in proximity to existing trees within the Caltrans ROW and conduct qualitative monitoring of the revegetation area during the maintenance period on a quarterly basis. The Project Arborist will be responsible for preparing and submitting monitoring reports quarterly to the RE within 10 business days of each monitoring visit. The Project Arborist shall be a Certified Arborist with the International Society of Arboriculture and demonstrated experience in tree preservation.

EXHIBIT B

FIELD NOTIFICATION

[Inset a copy of the Engineer's Field Notification which establishes the commencement date of the monitoring program, see City Supplement, section 700-2.12]

EXHIBIT C

LICENSE DATA SHEET

State Contractor License Classification and Number: _____

Name of License Holder: _____

Expiration Date: _____

Pest Control Applicator's Name: _____

License Number: _____

Expiration Date: _____

Pest Control Advisor's Name: _____

License Number: _____

Expiration Date: _____

City of San Diego Business License Number: _____

Expiration Date: _____

ATTACHMENT F

INTENTIONALLY LEFT BLANK

City of San Diego

CITY CONTACT: Damian Singleton, Contract Specialist, Email: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633

ADDENDUM "A"

FOR

UNIVERSITY AVE PIPELINE REPLACEMENT

BID NO.: K-15-5716-DBB-3
SAP NO. (WBS/IO/CC): S-11021
CLIENT DEPARTMENT: 2013
COUNCIL DISTRICT: 3
PROJECT TYPE: KA

BID DUE DATE:

2:00 PM
OCTOBER 2, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

James Nagelvoort, Director
Public Works Department

Dated: *August 28, 2014*
San Diego, California

JN/BD/egz

City of San Diego

CITY CONTACT: Damian Singleton, Contract Specialist, Email: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633

ADDENDUM "B"

FOR

UNIVERSITY AVE PIPELINE REPLACEMENT

BID NO.: K-15-5716-DBB-3
SAP NO. (WBS/IO/CC): S-11021
CLIENT DEPARTMENT: 2013
COUNCIL DISTRICT: 3
PROJECT TYPE: KA

BID DUE DATE:

2:00 PM
OCTOBER 29, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

James Nagelvoort, Director
Public Works Department

Dated: *September 23, 2014*
San Diego, California

JN/BD/egz

City of San Diego

CITY CONTACT: **Damian Singleton,** Contract Specialist, Email: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, **Fax No**. (619) 533-3633

ADDENDUM "C"

FOR

UNIVERSITY AVE PIPELINE REPLACEMENT

BID NO.:	K-15-5716-DBB-3
SAP NO. (WBS/IO/CC):	S-11021
CLIENT DEPARTMENT:	2013
COUNCIL DISTRICT:	3
PROJECT TYPE:	KA

BID DUE DATE:

2:00 PM
NOVEMBER 14, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

B. BIDDER'S QUESTIONS

Q1. What type of galvanic anodes shall be used?

A1. See attached Technical Specification Section 13110 for information.

Q2. What is the size of bond wire for joint bonds shall be used?

A2. See Sheet CP-3 (page 108 of this Addendum) for information.

Q3. For the paving of the trench, can the traffic control phasing be modified?

A3. Yes. Traffic Control Working Drawings would need to be submitted to the Traffic Control section of Field Engineering Division for approval.

Q4. The traffic control plans call out for work at night for a good number of phases but the specifications call out for day work. Please confirm that the hours on the traffic control plans take precedence.

A4. Confirmed, the traffic control plans take precedence. Please see section 6-1.3 in the City Supplement for additional details.

Q5. There are no traffic plans for work on Lewis St., or on University Ave. East of Texas and up Oregon St. Are there plans that will be issued for these areas?

A5. The Contractor shall provide Traffic Control Working Drawings per section 7-10.2.2.4 for Lewis Street, Hawk Street, and Oregon Street. Traffic control east of Texas is included in the Traffic Control Plans.

Q6. Sheet C-14 and C-15 show the encasement running continuously in the Caltrans ROW. Detail A & B on Sheet C-14 shows the encasement on the horizontal and vertical runs of the pipe. Detail 1 on Sheet C-40 shows the 36" casing beginning and ending at the bottom of the pits. Please clarify where the 24" and 36" casing begins and ends.

A6. See addendum herein for the revision of Sheet C-40. The encasement is continuously running horizontally and vertically in Caltrans ROW. The encasement starts and ends 5 ft beyond Caltrans ROW. The encasement as shown on C-14 and C-15 are correct. Detail 1 on Sheet C-40 will be revised to be consistent with Sheets C-14 and C-15.

Q7. Please clarify the size of highline required.

A7. Specified in Section 600-1.2.2.4 of the City Supplement.

Q8. Please clarify the extent of water flow to be bypassed around the project.

A8. Specified in Section 600-1.2.2 of the City Supplement.

Q9. Will nuts, bolts, be required to be domestic?

A9. See contract documents and this Addendum "C", Item C. Volume 1, item 6.

Q10. Will domestic MJ accessory packs be required on fittings?

A10. See contract documents and this Addendum "C", Item C. Volume 1, item 6.

Q11. Will domestic MJ accessory packs be required on fittings?

A11. See contract documents and this Addendum "C", Item C. Volume 1, item 6.

Q12. San Diego requires the 1200 valve box from Southbay Foundry which is not made in the US. Are you going to come up with a different option to be allowed?

A12. No exceptions.

C. CLARIFICATIONS

1. Due to an error in the Traffic Control Plan title block, a revised Traffic Control Plan set with all sheets will be re-issued 36656-T01-D through 36656-T249-D (TC-01 through TC-249). Only the Traffic Control sheets TC-89 through TC-117, TC-122, TC-137 through TC-148, TC-155 through TC-177 and TC-182 have design changes. Addendum C revised Traffic Control Plan has been uploaded and is available for download at Planet Bids.

D. VOLUME 1

1. To Attachment A, Scope of Work, page 29, Item 1, Scope of Work, Sub-item 1.5., Sub-item 1.5.1., **DELETE** in its entirety and **SUBSTITUTE** with the following:

   1.5.1. The Notice Inviting Bids and Plans numbered **36656-1-D** through **36656-86-D,** and Traffic Control Plans **36656-T01-D** through **36656-T249-D,** inclusive.

2. To Attachment A, Scope of Work, page 29, Item 2, Construction Cost, **DELETE** in its entirety and **SUBSTITUTE** with the following:

   3. CONSTRUCTION COST: The Engineer's Cost Estimate for this construction contract is **$19,600,000.**

3. To Attachment A, Scope of Work, page 30, Item 4, Contract Time, **DELETE** in its entirety and **SUBSTITUTE** with the following:

   4. CONTRACT TIME: The Contract Time for completion of the Work shall be **675 Working Days**.

4. To Attachment D, Safe Drinking Water State Revolving Fund (SDWSRF) Funding Agency Provisions, Page 45, Item 9, Wage Rates, **DELETE** in their entirety and **SUBSTITUTE** with Pages 39 through 67 of this Addendum.

5. To Supplementary Special Provisions, Section 1, Terms, Definitions, Abbreviations, Units of Measure, and Symbols, Page 97, Subsection 1-2, Terms and Definitions, **DELETE** in its entirety and **SUBSTITUTE** with the following:

1-2 TERMS AND DEFINITIONS.

Normal Working Hours. To the City Supplement, ADD the following:

The Normal Working Hours are 8:30 AM to 3:30 PM, unless otherwise specified on the Traffic Control Plans or shown herein.

Allowed Closure/Working Hours In Caltrans Right of Way	
Street	**Closure/Working Hours**
Southbound Hwy 163 On Ramp from Robinson Avenue	9:00 PM to 5:00 AM (Sunday through Thursday)
Northbound Hwy 163 Off Ramp to Robinson Avenue	9:00 PM to 5:00 AM (Sunday through Thursday for phases 61,62, and 65)
Eastbound and Westbound Robinson Avenue over Hwy 163	9:00 PM to 5:00 AM (Sunday through Thursday for phases 57,61, and 62)
Eastbound and Westbound Robinson Avenue East of Hwy 163	9:00 PM to 5:00 AM (Sunday through Thursday for phases 64,65, and 66)
Westbound Robinson Avenue over Hwy 163	9:00 PM to 5:00 AM (Sunday through Thursday for phase 63)
Eastbound and Westbound University Avenue	9:00 PM to 5:00 AM (Sunday through Thursday)
Partial Ramp Closure of Southbound 163 Off-Ramp to Sixth Avenue /University Avenue	9:00 PM to 5:00 AM (Sunday through Thursday for phases 51 and 52)

*Final closure/working hours in Caltrans Right of Way to be determined by Caltrans Encroachment Permit. Closure/working hours are pending approval by the State's Inspector. State's Inspector shall be notified seven working days prior to starting work.

Working hours may be adjusted based on community and business demands, at no additional cost to the City.

Working hours in the vicinity of the hospital zone must be coordinated with the hospital & the Resident Engineer, at no additional cost to the City.

6. To Supplementary Special Provisions, Section 4, Control of Materials, Page 99, Subsection 4-1.1.2, Steel and Iron Materials (23 CFR 635.410), **ADD** the following:

   3. If domestic equal is not available. Contractor will need to provide research and proof domestic produced equivalent does not exist.

7. To Supplementary Special Provisions, Section 207, Pipe, Page 114, Subsection 207-10.2.5, Joints, Sub-item 6, Flexible Expansion Joints, **DELETE** in its entirety and **SUBSTITUTE** with the following:

   6. Flexible Expansion Joints:

      a) Flexible expansion joints shall accommodate expansion, contraction, rotation, bending suitable for buried or exposed service.

      b) Working pressure rating shall be 350 psi and meet or exceed the hydrostatic pressure requirements for transmission pipe on which it is installed. Each joint shall be pressure tested prior to shipment against its own restraint to a minimum of the published pressure rating for the joint provided.

      c) Flexible expansion joints shall accommodate 15 to 20 degree deflection depending on size, a minimum 4-inch expansion and not exert an axial thrust force to the piping system under internal pressure.

      d) Casing, ball and sleeve shall be cast iron meeting or exceeding ASTM A536, Grade 65-45-12. Hardware including lock rings shall meet or exceed series 400 stainless steel. Rubber shall be EPDM suitable for water service.

      e) Contractor shall be responsible to coordinate end connections and dimensional requirements to provide a water tight seal with adjacent pipe or fittings. Ends may be flanged, MJ or plain end per the Contractor's accepted shop drawings.

      f) The entire fitting shall be lined and coated with 12 to 18 mils fusion bonded epoxy conforming to AWWA C213, AWWA C550 and NSF 61. Buried flexible expansion joints shall be entirely covered by a polyethylene sleeve, 8 mils thick per AWWA C105 secured to pipe ends.

      g) Approved manufacturers shall be EBAA Iron Inc., Force Balanced FLEX-TEND or approved equal.

      h) Contractor shall include a unit price bid for the materials and labor for the complete installation of flexible expansion joints as shown on plans.

8. To Supplementary Special Provisions, Section 306, Underground Conduit Construction, Page 120, Subsection 306-1.1.1, General, **DELETE** in its entirety and **SUBSTITUTE** with the following:

306-1.1.1 General. ADD the following:

Project Construction Phasing:

Phase 1 - Replace Pipeline for University Avenue from Park Boulevard to Florida Street. This Phase needs to be done before Georgia Street Bridge Project.

Phase 2 - Replace pipelines for University Ave from Park Blvd to 7th Avenue. This Phase shall be done after Upas contractor have completed their pipeline work.

Phase 3 - Work on tunneling at Robinson Ave and State Route 163 from 8th Avenue to 10th Avenue without connecting to the existing water main. The connection to the existing water main shall be postponed until Upas Pipeline contractor has completed work between 5th Avenue and Park Blvd. This Phase can be constructed anytime during construction unless otherwise directed by the Resident Engineer and at no cost to the City of San Diego.

Phase 4 - Replace pipeline on: W. Lewis Street from Stephens Street to Hawk Street; Hawk St. pipeline from W. Lewis St. to W. Washington St.; W. Washington pipeline from Hawk St. to Fourth Ave. This Phase shall be done after Upas contractor have completed their pipeline work.

Phase 5 - Replace pipelines on: Park Blvd. from approximately. 60 ft. north of Robinson Ave to the existing AC pipeline to Robinson Ave; Robinson Ave. pipeline from Park Blvd. to Tenth Ave.; and Robinson Ave. pipeline from Fifth Ave to Eight Avenue. This Phase shall be done after Upas contractor have completed their pipeline work.

Phase 6 - Replace pipelines on: W. Washington St. from Fourth Ave to Fifth Ave.; Fifth Ave pipeline from W. Washington St to Robinson Ave, and pipeline from Fifth Ave to Seventh Ave. The Fifth Ave pipeline has to be done during winter shutdown and shall be coordinated with Upas Pipeline Project.

Phase 7 - Replace pipelines for Oregon Street from Polk Ave. to University Avenue; University Ave pipeline from Oregon St. to Florida Street. This Phase shall be done after Upas contractor have completed their pipeline work.

Phase 8 - Complete the remaining of the project such as the ADA and slurry seal as directed by the Resident Engineer. This Phase shall be done after Upas contractor have completed their pipeline work.

The Construction Phases above may be changed as needed and directed by the Resident Engineer and at no cost to the City of San Diego.

Project Phasing Requirements. Include the following requirements in the development of the construction Schedule. Submit proposed deviations from these requirements to the Engineer in accordance with Section 2-5.3 and do not initiate the Work until approved in writing by the Engineer.

1. Schedule the construction of water improvements in coordination with the Upas St. Pipeline as follows:

    a. Only one of the three water pipelines between Fifth Ave and Park Boulevard can be out of service at any given time: University Avenue, Robinson Avenue, and Upas Street Pipelines.

    b. Only one of the two water pipelines between University Ave and Robinson Ave can be taken out of service at any time: Park Blvd, and Fifth Ave Pipeline.

2. Schedule the construction of water improvements in coordination with the Georgia St. Bridge Improvements.

3. Schedule the construction of water improvements in coordination with the University Ave Mobility Project.

When installing pipelines within the City's streets, for the following streets, the total time allowed for the completion of Work may not exceed 10 Working Days per 500' of pipeline installation:

1. Washington St.
2. University Ave.
3. Robinson Ave.

The contractor shall highline and/ or trench a maximum of 2000 feet or four blocks at the time whichever is less.

Project Phasing - Temporary Connections: Contractor is to follow City phasing plan which will require temporary connections of fittings and reducers to existing water mains. Contractor is to provide a bid item for "temporary connections to existing system". Bid item for "temporary connections to existing system" shall include full compensation for the installation and removal of all necessary fittings for temporary connections.

9. To Supplementary Special Provisions, Section 306, Underground Conduit Construction, Page 122, Subsection 306-1.2.14, Thrust Blocks and Anchor Blocks, first paragraph, **ADD** the following:

Contractor may submit calculations substantiating a smaller thrust block used in conjunction with a mechanical restraining device for approval by the Engineer.

10. To Supplementary Special Provisions, Section 306, Underground Conduit Construction, Page 123, Subsection 306-1.2.15, Restrained Joint Systems, **DELETE** in its entirety and **SUBSTITUTE** with the following:

306-1.2.15 Restrained Joint Systems. Restrained joints shall be used on all pressure pipelines where shown on the Drawings or where thrust blocks cannot be installed.

Joints in buried PVC piping shall be of either restrained push-on or restrained mechanical joint per AWWA C111 except where flanged joints are required to connect to fittings, valves, and other equipment or as shown on the Drawings. Joint restraint systems shall be selected from the City's AML and shall be installed in accordance with the manufacturers' instructions.

The required restrained joint design shall meet a minimum test pressure of 225 psig. Restrained joint length required shall be calculated and submitted for approval.

11. To Supplementary Special Provisions, Section 306, Underground Conduit Construction, Page 128, Subsection 306-13, Existing Utilities, Sub-item 4, **DELETE** in its entirety and **SUBSTITUTE** with the following:

4. Fiber optic conduit and cable located in existing bridge cell at University Avenue shall be relocated to an adjacent utility cell. Contractor shall coordinate the relocation of fiber optic conduit with SECC Corporation or other Verizon approved sub-contractors prior to the start of construction. Payment of work is through a pre-negotiated bid item as shown on bid schedule.

12. To Supplementary Special Provisions, Section 306, Underground Conduit Construction, Page 124, Subsection 306-2.3.1, Jacking Steel Casing – Installation, and Page 126, Subsection 306-2.3.2, Jacking Steel Casing – Submittal Items, **DELETE** in their entirety.

13. To Supplementary Special Provisions, Section 308, Landscape and Irrigation Installation, Page 128, Subsection 308-1.2, Protection of Existing Trees, **DELETE** in its entirety and **SUBSTITUTE** with the following:

308-1.2 Protection of Existing Trees. Several mature trees onsite at the Robinson tunnel launch site are slated to remain. Contractor shall take every precaution to protect and preserve the health, vigor and welfare of these mature trees, including but not limited to the measures described herein, throughout the duration of construction and maintenance. This includes their root systems & critical root zones. For the purposes of this specification, the critical root zone shall be any area under or near the drip line of the existing trees to remain where roots are encountered, or any area where a significant buttressing root (greater than 3" diameter) may extend even further than the drip line.

Contractor is to be advised that both buttressing roots and feeding roots are to be preserved.

Before the onset of construction, the Contractor shall meet onsite with the Resident Engineer, Certified Arborist, Caltrans Representative, the Project Manager and the design consultant. At this meeting, the City and Caltrans Representative shall determine if any pruning or other remedial measures need to be taken and the City shall perform these tasks before the start of construction, and turnover of the site to the Contractor.

Installation of all protection devices should be inspected and verified before the start of work and maintained until all construction is complete on the site.

Do not stockpile dirt or construction materials under the drip line or within 25' feet of the trunk of the tree, whichever is more restrictive. Protect the tree from damage during excavation. Use appropriate techniques listed above to prevent the compaction of soil or damage to roots located in the top 12"of the soil within this same critical root zone.

Protective measures may be required by the Resident Engineer or Caltrans Representative. Scarring on trees, tree trunks, boles, branches or limbs shall be avoided.

If remedial measures (beyond pest control or these specifications) are required, and it is deemed by the Resident Engineer or Caltrans Representative that they are due to contractor abuse, negligence, or lack of diligent care and culture of said trees, the contractor shall immediately implement such measures at his/her own cost. If the tree becomes infested with insects, the contractor shall likewise implement required remedies at his/her cost. Failure to do so may result in monetary damages.

If contractor causes or is deemed to have caused, in the determination of the Resident Engineer or Caltrans Representative, the permanent disfigurement (e.g. breaking or scarring), injury, or death to a tree other than that specifically required by the construction documents, Contractor may be assessed damages of $15,000 or more per tree depending on determination by the City and Caltrans Representative.

Contractor shall protect all existing landscaping, irrigation and trees in accordance with section 7-9.

Caltrans requires a 3 year monitoring period to ensure the viability of the existing trees within the construction zone.

14. To Supplementary Special Provisions, Section 308-8, Payment, **DELETE** in its entirety and **SUBSTITUTE** with the following:

308-8 PAYMENT. To the City Supplement, DELETE in its entirety.

15. To Supplementary Special Provisions, ADD the following:

308-7 GUARANTEE. To the City Supplement, DELETE in its entirety.

308-7 Payment. ADD the following:

Work related to tree maintenance shall be included in the Bid items as follows:

- Tree Trimming (EA)
- Root Pruning (EA)
- Root Barrier (EA)
- Professional Certified Arborist
- 3 Year Landscaping and Irrigation Maintenance

16. To Supplementary Special Provisions, Section 600-1.2, High-lining, Page 130, **DELETE** in its entirety.

17. To Supplementary Special Provisions, Technicals, Section 13110, Pages 136 through 147, Cathodic Protection System, **DELETE** in their entirety and **SUBSTITUTE** with Pages 68 through 79 of this Addendum.

18. To Supplementary Special Provisions, Appendices, Appendix I, Long-term Revegetation Maintenance Contract, Page 200, Recitals, Item B, **DELETE** in its entirety and **SUBSTITUTE** with the following:

B. In accordance with the Agreement, the Contractor shall enter into this contract with the City for the purpose of implementing and fulfilling long-term revegetation & trees maintenance and monitoring requirements in accordance with the City of San Diego Municipal Code and the Contract Documents for the specified element(s) of University Ave Pipeline Replacement Maintenance Requirements.

18. To Supplementary Special Provisions, Appendices, Appendix I, Long-term Revegetation Maintenance Contract, Page 208, Exhibit A, Scope of Work, Item II, Description of Work, Second sentence, **DELETE** in its entirety and **SUBSTITUTE** with the following:

The Work includes complete landscape maintenance consisting of irrigation, pruning, shaping and trimming of trees, shrubs, and ground cover plants; fertilization; weed control; control of all plant diseases and pests; and trash removal, and all other maintenance listed in this contract and as required to maintain the Revegetation Area in a safe condition and to maintain the plant material and trees in good ecologically health at all times.

19. To Supplementary Special Provisions, Section 7 – Responsibilities of The Contractor, **ADD** the following:

7-8.3 Noise Control. ADD the following:

Contractor shall meet City noise requirements for night work as specified in Traffic Control Plan. Contractor shall apply for sound attenuation permit to the City of San Diego. The cost for the night time work noise mitigation including the permit shall be included in bid item for Mitigation of Noise During Nighttime Operations.

7-10.2.6 Measurement and Payment. To the City Supplement, ADD the following:

5. Contractor shall provide a traffic control design along Lewis Street, Hawk Street, and Oregon Street. Payment for the traffic control Working Drawings, engineered TCP, traffic control for resurfacing and slurry, and permits are included in the bid item "Traffic Control Design".

7-10.7.2 Storage and Staging Areas. To the City Supplement, ADD the following:

4. No staging and storage is allowed on University Avenue, 5th Avenue, Washington Avenue and Lewis Street. Staging on side streets may be allowed with approval from Resident Engineer.

20. To Supplementary Special Provisions, Section 207, Pipe, **ADD** the following:

207-10.4.9 Cement Mortar Lining and Epoxy Coating.

1. Where specified on plans, steel pipe with cement mortar lining and epoxy coating shall be shop applied and conform to AWWA C205 and C210 requirements.

2. Field welding shall be per AWWA C205, C206, and C210 requirements.

3. Complete interior mortar joints for pipe sizes less than 600mm (24") by drawing through a tight-fitting swab or squeegee. Coat the face of the cement mortar lining at the bell with a sufficient amount of stiff cement mortar to fill the gap. Immediately after joining the pipes, draw the swab through the pipe to remove all excess mortar and expel it from the open pipe end. Do not move the pipe after the swab has been pulled past the joint.

4. Videotape inspection of repaired welded joints shall be at the cost of the Contractor.

21. To Supplementary Special Provisions, Section 303, Concrete and Masonry Construction, **ADD** the following:

303-5.10.2 Payment. To the City Supplement, ADD the following:

3. Imported Backfill for curb ramp construction shall be included in the bid item "Imported Backfill for Curb Ramp Construction.

22. To Supplementary Special Provisions, Section 306, Underground Conduit Construction, **ADD** the following:

306-1.4.5 Water Pressure Test. To the City Supplement, DELETE item 2, and SUBSTITUTE with the following:

2. Test Pressure shall be 225 psi.

306-1.5.1 Temporary Resurfacing. To the City Supplement, ADD the following:

Contractor shall limit the length of cold mix covered trench to a maximum of 500 linear feet at any time. Contractor shall immediately cap trench after pipeline installation is complete.

306-1.9 Payment for Pipeline Installation at University Bridge Crossing.

The Contract Unit Price per linear feet for University Bridge Crossing (Dual 12" Steel Water Pipe in 16" Steel Casing) shall be considered full compensation for the complete installation of steel water pipelines, casings, and hanger supports as shown on plans within the bridge cell at the University Avenue Bridge.

Contractor shall also provide an allowance for any additional work which may be required in Caltrans Right of Way.

306-5.1 Removal and Abandonment of Existing Water Facilities. To the City Supplement, ADD the following to the first paragraph:

Valves shall be removed where pipe is called out as abandoned on plans.

ADD:

306-23.1 General: Trenchless Operations. The work is for a complete and operational water line installed within a steel casing to be installed beneath SR-163 at the Robinson Road crossing as shown in the contract documents. The contractor is to select the trenchless method and equipment and it shall satisfy the requirements set forth herein. The crossing location and length is shown on the Plans and denoted herein as a Reach. The Contractor shall submit a proposed work plan of casing installation, which shall include Shop Drawings, calculations, and narrative demonstrating the following details:

a) Shaft design including calculations by a California PE experienced in the design of shafts incorporating trenchless excavation requirements.

b) Shaft bottom layout showing equipment and working areas.

c) Method of transferring the jacking forces from the trenchless equipment to the ground.

d) Penetration of casing through shaft support system into and out of the ground.

e) Casing design including provisions for lubrication and contact grouting. Demonstrate that the casing is capable of withstanding the installation stresses as specified herein.

306-23.1.1 Description. The trenchless method selected by the Contractor shall be capable of advancing through the encountered ground types and ground behaviors while simultaneously supporting the excavation heading. The excavation methods shall be adaptable based upon encountered ground types and ground behaviors. The ground conditions and behavior are favorable for auger boring, pipe jacking, or microtunneling provided the cutter wheel/tooling is configured for excavating weak sedimentary rock less than 15,000 psi unconfined compressive strength. The ground type and ground behavior allows consideration of different trenchless methods. The trenchless machine selected shall support the excavated ground, and continuously support the face. The casing and the shaft support system shall protect the workers and support the ground. All of the components shall take into account the designed works and the means and methods required to complete construction.

306-23.1.2 Requirements.

a) Casing shall be installed to within 4 inches of design grade and to within 4 inches of design line.

b) Trenchless equipment shall, in ground that contains fractions of materials other than the San Diego Formation, control the face using a cutter wheel, augers, or other methods that prevent unwanted ground movement. The ground at the face shall be supported whenever the face is unattended, there are planned stoppages, there is uncontrolled groundwater inflow, or excavation is not advancing. The contractor’s selected method of excavation and his means and methods will not cause the ground, or any surface improvement, to heave or settle.

c) Trenchless equipment shall, in ground consisting of only the San Diego Formation, control and support the face preventing

unwanted ground movement. The ground at the face shall be supported whenever the face is unattended, there are planned stoppages, there is uncontrolled groundwater inflow, or excavation is not advancing.

d) The advancement of the casing shall protect the workers, resist ground movement, and be installed as the tunnel is advanced.

e) The casing shall be used along the entire length of tunnel situated within the Caltrans easement. Casing will also be required for the vertical risers out of the shafts and for the open cut sections inside the Caltrans easement.

f) Dewatering from the surface along the crossing alignment shall not be permitted.

g) Jacking and receiving pits shall be designed and constructed utilizing traditional construction methods.

h) No other excavation shall take place within 100 feet of the jacking and receiving pits and tunnel until tunnel excavation is complete other than excavations for relocating utilities conflicting with the pits or tunnel, installing surface monitoring points, potholing to locate utilities, and excavations less than 10 feet deep.

i) Provide City access to the working pits and tunnel. Provide City access for instrumentation readings.

j) The jacking and receiving pits shall be protected from traffic using K-rail along the pit perimeter.

k) Drill and blast excavation methods are not permitted.

l) Orient thrust blocks backstops to be perpendicular to the tunnel alignment and design thrust block with a minimum Safety Factor of 2.0 without excessive thrust block movement that would jeopardize the ability to perform the work.

m) Crossing beneath the paved SR-163 roadway shall be performed to minimize damage or impacts on the roadway pavement. Contractor will be responsible to restore any damaged pavements above the work area in accordance with the methods set forth in the Caltrans Encroachment Permit.

n) Design casing to withstanding the installation stresses including those from ground and hydrostatic loads, jacking forces, grout pressures, AASHTO H20 highway loads, and any transportation and handling loads.

306-23.1.3 Minimum Separation.

a) Minimum separation between casing and carrier pipe is 4 inches.

b) Provide minimum separation of one casing diameter between casing and existing utilities.

306-23.1.4 Instrumentation and Monitoring.

a) Provide and install surface monitoring points in accordance with Caltrans requirements and the Plans as specified herein.

b) The top of the monitoring points shall be capped to prevent damage to the instrument and protect the public. The cap shall not interfere with instrument's functionality.

c) Establish surface monitoring point arrays oriented perpendicular to the tunnel centerline according to Caltrans requirements. Review surface monitoring point locations in the field during construction with Caltrans and the City and modify locations if required.

d) Determine the elevation of each surface monitoring point to an accuracy of +0.005-foot (1/16-inch). The surface monitoring points shall be surveyed following installation, with a second survey completed before commencing pit installation or tunneling. The second survey shall not be started until all surface monitoring points for the construction zone have been installed and the first survey completed by at least one working day.

e) Contractor to utilize latest Caltrans required surveying methodologies and equipment including LIDAR or other requirements.

f) Survey all surface monitoring points twice weekly, at regularly scheduled and equally spaced intervals acceptable to the City and Caltrans, once tunneling commences and until 4 weeks after tunnel is backfilled. Contractor shall provide a cumulative log of all survey data upon completion of each survey. Increase surveying to daily for all points within 200 feet of any point that has attained 0.5 or more inches of settlement until the casing has been backfilled or measurement has not changed for two weeks. Resume twice weekly measurements.

g) Contractor shall stop tunneling when total settlement attains 0.5 inches at any one point and provide written notice. Contractor shall not resume tunneling until the Contractor provides revised work plan that includes changes to excavation and ground control and an action plan to the City that describes changes made in order to prevent attaining

total settlement of 0.75 inches at any one point. Plan shall also include equipment and personnel changes that will occur when total settlement attains 0.75 inches at any one point.

h) Contractor shall stop tunneling when total settlement attains 0.75 inches at any one point and provide written notice. Contractor shall not resume tunneling until all personnel and equipment changes are implemented.

i) Contractor shall stop tunneling when total settlement attains 1.0 inches at any one point and provide written notice. Contractor shall verify casing design can accommodate ground movement and resubmit design. Contractor shall not resume tunneling until all design changes are implemented.

306-23.1.5 Definitions.

a) Annular Space: The volume/space between the outside radius of the casing and the native material.

b) Auger Boring: A technique for forming a bore from a jacking pit to a receiving pit by means of a rotating auger with cutting tools. The casings are jacked forward sequentially in a cyclic process while the auger is turned. Spoils are removed back at the jacking pit by helically wound auger flights rotating in the steel casing.

c) Carrier Pipe: A pipe for conveyance of water for this project.

d) Casing: A jacking pipe made of steel, used to support a tunnel and within which the carrier pipe is later installed.

e) Contact Grouting: The injecting of a cementitious material outside of the casing to fill voids and assure that intimate contact for load transfer between the casing and the native host material has been achieved.

f) Cutter wheel: Any rotating tool or system of tools that excavates materials.

g) Dewatering: Any system of wells and pumps used for the express purpose of lowering the groundwater below a required elevation or removing groundwater from an excavation.

h) Driller’s Mud: A fluid, normally consisting of water, bentonite, and polymers, used to stabilize the hole and, in a closed loop system, for the removal of spoil. Driller’s mud is a fluid designed with specific engineering properties which may include density, viscosity, and gel strength.

i) Emergency Recovery Shaft: A vertical excavation required for the removal of an obstruction or for removal or repair of the trenchless construction equipment. The location of an Emergency Recovery Shaft is determined by construction necessity and typically will not have permanent civil structures constructed in the shaft.

j) Face: The location where excavation is taking place.

k) Geologic Contact: An abrupt and distinguishable interface between two geological strata that may or may not necessarily have similar engineering properties or behavior.

l) Guidance System: System that locates the actual position of the machine relative to the design line and grade.

m) Inadvertent Return: The loss of drilling fluid, including slurry and lubrication, from the slurry or lubrication system. A common form of inadvertent return, where the fluid reaches the surface or waterway, is commonly called a “frac-out.”

n) Initial Ground Support System: System designed and installed in the excavated tunnel as the tunnel advances to support the ground and provide a safe work area for the workers. For this project the system is a steel casing.

o) Intermediate Jacking Station(s) (IJS): A fabricated steel cylinder fitted with hydraulic jacks, which is incorporated into a pipeline between two casing pipe segments. Its function is to provide additional thrust to overcome resistive skin friction of the shield and pipeline and to distribute the jacking forces over the pipe string on long drives.

p) Intermediate Shaft Location: A vertical excavation where a permanent civil structure will be placed before or after the tunnel is constructed.

q) Jacking Frame: A structural component, fitted with hydraulic cylinders that is used to push the shield and casing into the ground. The jacking frame distributes the thrust load to the casing and the reaction load to the shaft wall or thrust block.

r) Jacking Pipe: A specialty pipe that is engineered and manufactured with a smooth outer wall and watertight joints. The pipe is specifically designed to be jacked through the ground and may also serve as a casing.

s) Jacking/Launch/Entrance Pit: A vertical excavation from which trenchless technology equipment and pipe are launched and driven.

t) Laser: A device commonly incorporated into the guidance system used to maintain alignment and grade during tunnel construction.

u) Limits of Excavation: The volume within which the excavation takes place.

v) Lubricant (Lubrication): A fluid, normally bentonite and/or polymers, used to reduce skin friction on the jacked casing or jacking pipe and to fill the annular space between the jacking pipe and the native unexcavated material.

w) Maximum Allowable Jacking Force: The largest jacking load that the casing can accept allowing for an appropriate factor of safety.

x) Maximum Anticipated Jacking Force: The largest theoretical jacking force required to advance the casing and trenchless equipment from one location to another.

y) Microtunnel Boring Machine (MTBM): A remote controlled, steerable, laser guided tunnel boring machine consisting of an articulated boring machine shield and a rotating cutter wheel. Personnel entry into the MTBM is not required for the routine operation of the MTBM.

z) Microtunneling: A remote controlled and guided pipe jacking process that provides earth pressure balance in addition to applying hydrostatic counterbalancing pressure to the face. The jacked pipe provides continuous support to the tunnel.

aa) Mixed Face: An interface within the excavated tunnel face between two geological units with different engineering properties.

bb) Mixed Ground: Soil without a defined interface that contains soil fractions with distinctly different sizes and engineering properties, i.e. silt with boulders.

cc) “N” Value: The number of blows per foot using a standardized hammer weight and drop height required to drive a standard SPT soil sampler in the ground during geotechnical exploration. The value defines the consistency of the in situ soils along the project.

dd) Obstruction: An object not expected to be encountered and that lies fully or partially in the direct path of the tunneling equipment thereby impeding forward progress of the trenchless equipment

and with a principal dimension larger than 24 inches and/or with an unconfined compressive strength (UCS) higher than 15,000 psi. Any object installed or constructed by the Contractor, including but not limited to ground improvement and shaft shoring, shall not be considered an obstruction

ee) Obstacle: A foreseen object that lies either within or near the direct path of the tunnel and is to be avoided or removed be other means.

ff) Overcut: The radial distance between the excavated perimeter of the outermost gauge cutter and the outside radius of the casing pipe.

gg) Pipe Jacking: Construction of a pipeline by hydraulically jacking consecutive sections of jacking pipe through the ground behind a shield or TBM.

hh) Pipe String: The succession of joined individual pipes being used to advance the excavation equipment and support the tunnel.

ii) Principal Dimension: The largest of an object's three mutually orthogonal measurements.

jj) Product Pipe: See Carrier Pipe.

kk) Receiving/Exit Pit: A vertical excavation from which trenchless technology equipment is received and removed.

ll) Separation: Measured distance between objects. The distance between two objects as measured between the closest outermost dimensions.

mm) Shield: A fabricated steel cylinder from within which tunnel excavation is performed. TBMs are shields with increased automation and mechanization.

nn) Slurry: A fluid, a water/bentonite medium in non-cohesive soils and a water or water/polymer medium in cohesive soils, which is used for the transportation of excavated materials and to balance the naturally occurring hydrostatic pressure during microtunneling. Slurry may or may not contain the materials being transported.

oo) Slurry Chamber: Located behind the cutter head of a slurry microtunneling machine. Excavated material is mixed with slurry in the chamber for removal to the surface.

pp) Slurry Line: A series of hoses or pipes that transports spoils and slurry from the face of a slurry microtunneling machine to the

ground surface for separation of spoils from the slurry and returns slurry to the cutter face.

qq) Slurry Pressure Balance Machine: A microtunneling system which uses a low pressure fluid to balance the ground water pressure at the face of the tunnel and to transport the excavated material to the surface.

rr) Slurry Separation: A process where excavated material is separated from slurry so that the slurry may be reused.

ss) Specials: The pipe sections immediately ahead of and behind an IJS that have specially manufactured ends that physically accommodates the IJS.

tt) Spoil(s): Excavated material, also known as muck.

uu) Sump Pump: A device placed in a shallow well used to collect and remove water incidental to the construction process, pit leakage, and to prevent the excavation equipment from flooding.

vv) Surface Settlement Points: Survey control points established at the ground surface along the pipe alignment for monitoring surface movement due to subsurface excavation.

ww) Thrust Block: An engineered structure located between the jacking frame and the pit wall which distributes the jacking force developed by the hydraulic jacking frame over a large surface area.

xx) Thrust Ring: A fabricated ring that is mounted on the face of the jacking frame. It transfers the jacking load from the jacking frame to the thrust bearing area of the pipe section being jacked.

yy) Trenchless Technology Equipment: Equipment used to install the casing from the point of origin to the destination without the use of an open trench cut.

zz) Tunnel Boring Machine (TBM): A controlled, steerable, guided tunnel boring machine consisting of an articulated shield with automated and mechanized excavation methods. Personnel entry into the TBM is required for the routine operation of the TBM.

aaa) Unanticipated Returns: See inadvertent returns.

306-23.1.6 Submittals.

Preconstruction

1. Qualifications:

a) The Contractor shall have experience in constructing the proposed pits and tunnel. Submit a copy of Cal/OSHA Annual Excavation Permit.

b) The Contractor shall have a California Professional Engineer (CA PE) experienced in pit and tunnel designs prepare and seal all designs and design calculations.

c) The Contractor shall have a California licensed land surveyor (CA LS) skilled in underground surveying perform all surveys.

d) Experience shall be demonstrating previous experience on a project of similar depth, size, and length using similar construction materials and methods in ground of the same type. Submit an experience record that includes name of project, project owner and contact information, and sufficient details to determine similarity.

2. Qualification Criteria:

a) Tunneling Contractor shall have a minimum 10 years' experience in the construction of tunnels or pipe jacks, and shall have completed no less than 5 projects of similar diameter and length as this project in the last five years. A minimum of one project shall be a Caltrans crossing and a minimum of two projects shall be in similar ground conditions.

b) Tunneling Superintendent shall have no less than 5 years of recent direct supervisory experience in the construction of tunnels or pipe jacks, and shall have completed no less than 5 projects of a similar diameter and length as this project in the last five years. A minimum of one project shall be a Caltrans crossing and a minimum of one project shall be in similar ground conditions.

c) Equipment operator(s) shall be trained in the operation of the proposed trenchless equipment, shall have no less than 3 years of recent direct operating experience in the construction of tunnels or pipe jacks of similar length and diameter as this project, and shall have completed no less than 5 projects of a similar nature in the last five years. A minimum of one project shall be a Caltrans crossing and a minimum of one project shall be in similar ground conditions.

d) Safety representative shall have no less than 5 years of recent experience in tunnel construction and certified by CAL/OSHA.

e) Personnel responsible for testing underground gases and monitoring air quality shall be certified by CAL/OSHA as a gas tester. Test certificate shall be current and renewed within the past year.

f) Purchased or rebuilt trenchless equipment used on this project shall have been manufactured by a company with at least 5 years of experience in the manufacture or rebuilding of mechanized tunnel excavation and jacking equipment.

3. Safety:

a) Submit completed Cal/OSHA tunnel classification permit.

b) Submit Cal/OSHA Injury and Illness Prevention Program (IIPP) in compliance with the law and not for review.

4. Site:

a) Submit drawings showing site lay down area for trenchless equipment with pit footprint, pit bottom arrangement, penetration of the pit wall, and permanent works imposed within the pit footprint.

5. Materials:

a) Submit manufacturers' written recommendation for handling, installation, testing, and pre-printed material specifications (tear sheets) for all construction materials. Casing pipe shall be the product of a single domestic manufacturer. The Contractor shall furnish certificates to the Engineer certifying that the pipe furnished hereunder is in compliance with the requirements of the Contract Documents.

6. Tunneling Work Plan/Shop Drawings:

a) Submit pit design drawings including construction tolerances for member location, vertical nature, allowable deflection, tunnel penetration(s), methods of excavation and design calculations. Contractor shall be responsible for the adequacy and safety of construction means, methods, and techniques.

b) Submit fabrication drawings, details, pipe design, and calculations for the casing. Indicate pipe wall thickness,

diameter, length, class lubrication method, joint details, and joining procedures. The Contractor shall furnish to the Engineer the casing pipe manufacturer's quality control records, as required herein.

c) Detailed description of equipment, materials, sequence, and procedures for installing casing pipe with shield including provisions for standby and backup equipment.

d) Carrier Pipe manufacturer's recommendations, on manufacturer letterhead, for location, number and maximum longitudinal distance between spacer sets (within casing installed using jack and bore) to provide necessary support of carrier pipe that will not allow sagging of carrier pipe between spacers.

e) Type of Casing Joint: Calculations by a licensed California Professional Engineer showing the casing joints can withstand the maximum jacking capacity of the jacking system that the pipe will experience.

1. Installation details for casing.

2. Welder certification.

3. Line and grade calculations and layout for casing installation.

4. Installation details for carrier pipe with the casing pipe.

5. Line and grade layout plan for the carrier pipe installation.

f) Pit and casing design to be signed and stamped by a CA PE.

g) Pit location may be adjusted pending approval by Caltrans & City representative.

h) Submit theoretical jacking force calculations for the trenchless crossing. Cite all references that provide basis for the calculations and design assumptions.

i) Submit cross section geometry showing relationship of the excavation, casing, and carrier pipe along with dimensioned clearances.

j) Detailed information on plan to monitor settlement caused by trenchless operation. Trenchless construction shall not impact surface improvements and/or underground utilities.

7. Method statements: Submit means and methods statement for performing the trenchless work.

   Include the following in the discussion:

   a) Methods for controlling ground and loss of ground into pits when breaking out of the jacking pit and breaking into the receiving pit.

   b) Description of the alignment control and steering systems.

   c) Details of bentonite injection system used for lubrication on the outside of the jacked casing.

   d) Details of grout injection system used to place grout in the overcut annulus.

   e) Muck handling, transport, and disposal equipment and procedures, including the location of muck disposal sites.

   f) Arrangement and position of main jacks, thrust ring, jacking controls, and pressure gauges.

   g) Thrust block and jacking frame design, calculations, and details.

   h) Pit construction method incorporating trenchless method and size requirement.

   i) Launch procedure commencing with modifications to pit shoring and ending when the tunnel has 20 feet of installed casing beyond pit shoring.

   j) Receiving procedure when the trenchless equipment is within 10 feet of pit shoring commencing with modifications to pit shoring and ending with the trenchless equipment penetrating the receiving pit and the casing installed in the ground.

   k) Contact grouting procedure commencing with preparing batch and ending with flushing hoses at the end of each shift. Plan shall include safe grout injection pressure, communication, and recording of installation pressure and volume of grout injected.

l) Installation of carrier pipe to ensure proper mating of joints, line and grade control, and preventing damage to the carrier pipe.

m) Backfill grouting of carrier pipe in the casing including bulkhead construction, method to prevent carrier pipe from floating and backfill installation pressure. Submit calculations for:

1. Volume of backfill per lift.

2. Number of lifts.

3. Determining fluid pressure on carrier pipe during backfill operations ensuring a minimum factor of safety of 2.0.

4. Determining buoyancy of carrier pipe during backfill.

8. Contingency Plans: Contractor shall submit contingency plans for unforeseen events that may occur, including the following:

a) The guidance plan shall include laser operational parameters observed, measured, and recorded to determine if the laser has moved or if heat distortion is affecting the guidance system if a laser is used.

b) The line and grade control plan shall include operational parameters observed, measured, and recorded to determine if the casing is off design line and/or grade. The plan shall include a return to the design line and/or grade over the remaining portion of the drive and at a rate of not more than 1-inch per 25 feet.

c) The jacking plan shall include operational parameters observed, measured, and recorded to determine if jacking force is increasing at a rate that would exceed Maximum Allowable Jacking Force or jacking force increase at a rate causing reasonable concern for completing the drive.

d) The jacking pipe failure plan shall include inspection, repair, and removal plans. Repair methods shall be acceptable to manufacturer and City.

e) Contractor shall submit a plan for retrieval and abandonment of equipment. Contractor is responsible for retrieval or abandonment of equipment at no expense to the City.

f) The ground movement monitoring plan shall include replacing operators and operational modifications deemed important and acceptable to the City.

g) Restoration of line and/or grade to the line and/or grade indicated on the Plans.

h) Ground and/or water begin to flow at tunnel face. If re-grouting ahead of jack and bore to prevent settlement, heave and collapse of ground is proposed, provide grouting plan.

i) Settlement monitoring detects out of tolerance settlement/heave.

j) The jack and bore progression exceeds the final line and grade, as provided on the Plans, for the final placement of the carrier pipe within the casing.

k) Jacking forces exceed 80% (e.g. 80 tons for 100 tons of pipe capacity) of maximum jacking capacity of steel casing pipe.

l) Actual jacking forces exceed 80% (e.g. 96 tons of 120 tons of jacking force) of maximum allowed jacking force of the hydraulic jacks.

m) Tunnel backfill delivery pressure exceeds pressure calculated using minimum factor of safety and before mandatory shutdown value.

n) Removal of an obstruction when bore encounters an obstruction where excavation from surface is not permitted.

9. Quality Control:

A. Submit the following permits/certifications:

a) Contractor shall obtain/extend encroachment permits as required to complete the work. Additional area the Contractor needs that extend beyond the existing Right of Ways will require the contractor to obtain additional encroachment permits.

b) CAL/OSHA gas testing certificates for personnel responsible for testing underground gases and monitoring air quality.

c) Air monitoring equipment calibration certificate on a weekly basis for as long as CAL/OSHA requires that air monitoring and gas testing be performed.

d) CAL/OSHA certification for the safety representative.

e) Certification from muck disposal sites indicating their acceptance of the muck, and its compliance with applicable regulatory requirements.

B. Submit the following Quality Control Plans:

a) Methods for survey control including maintaining alignment and clearances to achieve specified tolerances.

b) Means for minimizing trenchless equipment and casing roll.

c) Methods for monitoring air quality in accordance with regulatory agencies.

d) Means for limiting hydraulic jacking pressures and assuring that no damage occurs to the casing and to jacking structure.

C. Field Quality Control:

a) Verify benchmarks prior to starting construction and report errors or discrepancies to the City.

b) After confirming that all established benchmarks are correct, use these benchmarks to furnish and maintain all reference lines and grades for the casing installation. The Contractor shall use these lines and grades to establish the location of the casing using a laser guidance system or survey methods. Contractor shall allow the City to check laser or survey method set up prior to beginning the reach. Provide access for the City to perform survey checks of line and grade of casing on a weekly basis during operations. Contractor is fully responsible for the accuracy of the work and the correction of it, as required.

c) Monitor line and grade continuously during operations. Record deviation with respect to design line and grade at least once per casing segment and submit records to the City as requested. Control line and grade of the casing to within the specified tolerances. Stop advancing the casing if installation exceeds specified tolerances, and develop a plan to

correct deviation. Submit plan for review and do not proceed without the City's permission.

d) Where the pipe installation exceeds the specified tolerances, correct the installation, including, if necessary, redesign of the casing or structures. All corrective work shall be performed as accepted by the City at no additional cost to the City.

10. Preconstruction Meeting: Hold separate meeting at least 5 days but not more than 30 days prior to commencing trenchless crossing work. Provide minimum 5 work days advance notification of meeting time. Review and discuss the following items at the meeting:

    a) Construction methods and constraints overview.

    b) Trenchless equipment operating parameters.

    c) Safety procedures.

    d) Quality control procedures and quality assurance requirements.

    e) Reporting requirements.

    f) Site Specific Work Safety Plan

    g) Other issues as may be raised by either party.

11. Preparation:

    a) Complete excavation and support of jacking and receiving pits.

    b) Furnish, install, and survey the location and the horizontal and vertical orientation of the guide rails or jacking frame to ensure they are on the proper line and grade. Special care shall be taken when setting the guide rails or jacking frame in the jacking pit to ensure correctness of the alignment, grade, and stability. Guide rails shall be securely attached to a concrete working slab to prevent movement or shifting during the work.

    c) Ensure that geotechnical instrumentation has been installed and is functional, and that baseline readings have been recorded.

    d) Install and survey the surface monitoring points as shown in the Plans for the Caltrans crossing.

12. Construction:

    A. Submit sample logs for City's comment. Incorporate comments before collecting data and submitting records. All records are to be submitted no later than the day after the event.

    B. Daily logs: Daily logs that describe project activities and concerns. Identify the crew size including the labor classification and work assignment along with the number and type of equipment including a list of idle or inoperative equipment and the reason for downtime.

    C. Excavation reports: Excavation reports shall have a header that identifies the project, contractor, date, start of shift, pipe number or station, shield operator, and end of shift. Readings shall be taken at regular intervals of approximately 3 feet and include:

        1. Time of reading

        2. Face station

        3. Line and grade readings

        4. Steering adjustments

        5. Thrust force

        6. Cutter wheel torque

        7. Instantaneous advancement rate

        8. Roll, inclination, and steering adjustments

        9. Total advancement in feet

        10. Observed ground behavior

        11. Observed spoils

        12. Lubrication

        13. Gas testing

        14. Delays to excavation progress and why

    D. Survey for line and grade cumulative record: Survey record shall have a header that identifies project, contractor, surveyor, and date. Survey record shall include all

measurements and results of all measurements used for guidance. Survey shall also include verification measurements at all locations where prior measurements were recorded.

E. Guidance adjustments cumulative record: Contemporaneous log of all line and grade checks, resets, and adjustments shall be independent of the excavation reports. Guidance record shall have a header that identifies project, contractor, surveyor, and date. The record shall include:

1. Date, time, pipe number or station, and person verifying and making adjustments

2. Measurements from immediately before adjustment

3. Measurements from immediately after adjustment

4. Written notice of any guidance offsets

5. Written notice if line and grade deviates in excess of that specified herein.

6. Survey data if adjustment is performed based upon survey data

7. Daily verification of design slope reading and person making verification

8. Survey for surface settlement. Survey record shall have a header that identifies project, contractor, surveyor, and date. Survey record shall be a cumulative record of all measurements.

F. Notices: Provide written notices within 1 working day of the event if verbal notice has been given. Otherwise provide written notice upon event.

13. Post construction:

a) Submit draft As-Built drawings and provide written responses to City's comments and questions

b) Submit final As-built drawings

c) Submit all specified documents for tunnel construction.

306-23.1.7 Subsurface Conditions. The subsurface ground conditions were interpreted using data presented in the Geotechnical Evaluation prepared by Ninyo & Moore, dated June 14, 2013. Descriptions of the

area geology and site specific information presented in Borings B-3 and B-4 were used for the interpretations of the ground conditions along the crossing. The following interpretations are made with respect to the ground conditions the contractor can anticipate within the tunnel horizon.

a) Groundwater was not encountered in the 56-foot deep boring drilled at the crossing location and the contractor should assume likewise at the crossing. See page in the upper formational materials should be expected during the rainy season.

b) Tunnel horizon materials will consist of the San Diego Formation materials. The San Diego Formation is consistently described as weakly cemented, fine-grained sandy siltstone and silty sandstone. Cobbles are known to be present in the matrix of the San Diego Formation materials as are cemented zones or concretions which need to be taken into consideration when selecting the cutter wheel tooling.

c) The contractor should anticipate that the entire bore will take place in the San Diego Formation materials. The contractor's equipment shall be capable of mining materials with an Unconfined Compressive Strength up to 15,000 psi.

d) The San Diego Formation material will exhibit firm behavior where the in-situ rock that is massive, not fractured and not sheared. The same materials will exhibit fast raveling with poor stand up time where fractured and sheared.

306-23.1.8 Site Cleanup and Restoration. The site shall be kept free of trash, debris, and inoperable equipment throughout construction. The site shall be restored to its preconstruction condition.

306-23.2 Materials.

306-23.2.1 Casing. The casing shall be designed with a minimum factor of safety of 2.0:

a) Casing shall provide a water tight joint and provide an annular space not greater than 1.0 inches which shall be contact grouted upon completion of the tunnel. The casing shall be designed to withstand the jacking forces required to complete the drive. Lubrication shall be added as the casing is installed.

b) Provide casing with a minimum ½ inch wall thickness.

c) Casing diameter shall be a minimum of 36 Inches.

306-23.2.2 Lubrication.

a) High yield sodium bentonite.

b) Water shall be from a potable water source.

c) All water shall be tested for pH and treated with soda ash, or approved equal, to adjust the pH of the water as required in the accepted mix design(s).

d) Bentonite, polymers, and additives shall be NSF/ANSI Standard 060 or equal for clean water testing except for soda ash.

306-23.2.3 Contact Grout.

a) Grout mix (water/cement) ratios shall be expressed in cubic feet of water per cubic foot of cement (94 pound bag). The water-cement ratio by volume shall be varied as needed to fill the voids outside the jacking pipe. The range of water-cement ratios shall be between 1:1 and 2:1 by volume.

b) Grout shall consist of Portland cement, not more than 2 percent bentonite by weight of cement, fluidizer as necessary, and water in the proportions specified herein or acceptable to the City. Sand may be added to the grout mix in instances of very high grout takes as approved by the City, but in no case shall the grout mix contain less than six sacks of cement per cubic yard of grout. The addition of sand may require the addition of water or fluidizer to the grout mix.

c) Grout shall have a minimum unconfined compressive strength of 100 pounds per square inch (psi) in 24 hours, 500 psi in 7 days, and 1,000 psi in 28 days.

306-23.2.4 Backfill Grout.

a) Low density cellular concrete mix shall be designed in accordance with the requirements of this section and ACI 523.1.

b) Minimum 7-day and 28-day compressive strength shall be 400 pound per square inch (psi) and 500 psi, respectively. Unless otherwise specified, each cellular concrete mix shall be designed and controlled within the following limits:

1. At the point of placement, the wet density unit weight of the cellular concrete shall be not less than 55 pounds per cubic foot (pcf) and shall be within 5 pcf of the density of the approved cellular concrete mix.

2. Preformed foam shall be generated by combining controlled quantities of air, water, and foaming agent under pressure. Foam shall retain its stability until the cement sets to form a self-supporting matrix.

3. The concentration of foam agent shall be in accordance with the manufacturer's written recommendations.

306-23.3 Placement Requirements.

306-23.3.1 Tunnel Line and Grade.

a) Tunnel shall be excavated so that the carrier pipe can be installed as specified herein.

b) Tunnel and casing installation shall be constructed as specified herein.

306-23.4 Equipment.

306-23.4.1 Auger Boring. Auger boring set-up shall provide full face excavation ability, incorporate guidance and steering if possible, provide continuous advance of the casing, and be capable of accommodating face support either during mining or during stoppages.

306-23.4.2 TBM. TBM shall provide full circumferential protection, incorporate guidance and steering, provide continuous advance of the casing, and be capable of accommodating face support either during mining or during stoppages. In addition, the shield or TBM shall have the following attributes:

a) The TBM shall be laser guided.

b) The tail of the machine shall be designed to prevent material from flowing through the contact between the shield and the leading edge of the jacked casing.

306-23.4.3 Jacking Equipment. Jacking system shall be capable of pushing the casing to completion. If jacks are located in the shaft, ensure the shoring design incorporates reaction wall loads and that lubrication is used during pipe jacking. The capacity of the jacking system shall exceed the Maximum Anticipated Jacking Force by at least 1.3 times. The jacking equipment shall have the following attributes:

a) Jacks used for advancing the casing shall be the type that lock if loss of hydraulics occurs.

b) Capable of continuously monitoring and adjusting jacking pressures through individual and combined adjustment of jacks.

c) Capable of monitoring the rate of advancement, and the distance jacked.

d) Design system so that axial forces from the thrust jacks are distributed to the casing uniformly.

306-23.4.4 Excavation Controls. Excavation method that is compatible with the ground conditions and provides face support as specified herein.

306-23.4.5 Spoils Transport System. The spoils transportation method shall contain the spoils and prevent spillage. Transport and dispose of all excavated materials in accordance with all local, state, and federal requirements.

306-23.4.6 Guidance and Steering. The guidance system shall provide for the installation of the casing to design line and grade within the specified tolerances.

306-23.5 Methods.

306-23.5.1 Preconstruction Site Assessment. Contractor shall use pictures, survey, 3-D survey, and any additional methods to document the existing condition within the public right-of-way. The Contractor shall not enter private property outside the temporary construction easements.

306-23.5.2 Pits. Vertical auger drilled pits with grouted in-place corrugated metal pipe (CMP) or corrugated metal liner plate shafts that meet the following requirements:

a) Design and construct pits based upon the geotechnical conditions, suitable for their intended purpose, accommodate existing structures, and minimize impacts to the community.

b) Pits shall have minimum factors of safety for resistance to basal uplift of 1.5 and sidewall failure of 2.0.

c) Pit shall be equipped with a sump for collecting water and pumping the water out of the pit.

d) Removing and disposing of the water from inside the pit shall conform to all permit requirements.

e) Pit shall be designed and constructed with a concrete base slab.

306-23.5.3 Tunneling.

a) Line and grade set-up shall be verified daily and as needed to ensure tunnel alignment.

b) Tunnel shall be surveyed for line and grade, at a minimum of:

1) Weekly

2) Every 100 feet of advancement

3) Include verification of previous survey points

c) Provide written notice when line or grade attains 50 percent of allowable tolerance.

d) Provide written notice when line or grade attains 75 percent of allowable tolerance.

e) Stop tunneling when line and grade attains 100 percent of allowable tolerance.

306-23.5.4 Annular Space Grouting or Contact Grouting.

a) Contact grouting shall proceed from low end to high end.

b) Grout shall be injected until grout flows from an open upstream port.

c) Contact grouting shall be pressurized to ensure filling of void and displacement of any water or lubricant.

d) Contact grouting pressure shall provide a minimum factor of safety of at least 2.0 below the casing buckling pressure.

306-23.5.5 Carrier Pipe Installation.

a) Carrier pipe joints shall be mated according to pipe manufacturer's written recommendations.

b) Carrier pipe shall be installed according to pipe manufacturer's written recommendations.

c) Carrier pipe shall be supported by manufactured skids inside the casing using a minimum of three skids per pipe segment. Skid legs in the 6 o'clock position are not allowed.

d) After the carrier pipe has been tested, the EPDM rubber end seals shall be strapped by stainless steel bands in accordance with manufacturer's instructions.

306-23.5.6 Inspection and Testing.

a) Carrier pipe shall be inspected and tested before backfill grouting.

b) Carrier pipe shall be inspected and tested after backfill grouting.

306-23.5.7 Backfill Grout.

a) Bulkheads shall be constructed before backfill grouting commences for each lift.

b) Backfill grouting shall be completed in lifts not exceeding the maximum pressure commensurate with a 18-inch grout lift unless a lower pressure is recommended by the grout manufacturer to prevent collapse of the backfill cellular structure.

c) Tunnel crown shall be completed in one lift.

d) Submit calculations determining fluid pressure on carrier pipe during backfill operations ensuring a minimum factor of safety of 2.0.

e) Submit calculations determining buoyancy of carrier pipe during backfill.

306-23.5.8 Environmental Controls.

306-23.5.9 Construction Zone. Contractor shall restrict all activities to the available work space. If additional work space is required the Contractor may acquire private space.

306-23.5.10 Emergency Recovery Shafts. Emergency Recovery Shaft will not be allowed within the tunnel alignment. Emergency recovery can only originate from the pits specified on the Plans.

306-23.6 Measurement.

a) Pits shall be measured as each.

b) Water line shall be measured by the linear foot.

306-23.7 Payment.

a) Pits shall be paid Lump Sum for each pit. Cost shall include shoring, removal of spoils, removal of water, removal of shoring system upon work completion, installation of the vertical casings and water line, backfill grouting, and all work required for a properly functioning riser.

b) Water line shall be paid per linear foot. Cost shall include surveying, excavation, casing installation, removal and disposal of water and spoils, contact grouting, installation of carrier pipe, testing, backfill grouting, instrumentation and monitoring, and all work required for the properly functioning water line.

22. To the Supplementary Special Provisions, Section 600, Water Works, **ADD** the following:

600-1.2.2 High-lining by the Contractor. To the City Supplement, **REVISE** fourth paragraph to read as follows:

4. Contractor shall not take more than 2,000 feet out of service at any time. However, Contractor shall phase the Project such that all structures in the area are within 1,000 feet of an active fire hydrant, measured using streets, private roads, or other routes driven by emergency vehicles. Phases are required so that high-line provides sufficient water pressure to affected properties.

600-1.2.2.10 Payment. To the City Supplement, **ADD** the following to Item b:

Lump sum bid item for "High-lining by the Contractor" shall also include full compensation for the development of high-lining plans.

600-1.3.2.10 Payment. To the City Supplement, ADD the following to the first paragraph:

Bid unit prices for connections shall include all needed field fittings to connect existing and new water mains at different vertical and horizontal offsets.

D. VOLUME 2

1. To Bidding Documents, Proposal (BID), Pages 14 through 20, **DELETE** in their entirety and **REPLACE** with Pages 80 through 87 of this Addendum.

E. PLANS

1. To Drawing number 36656-01-D, (G-1), **DELETE** in its entirety and **REPLACE** with Page 88 of this Addendum.

2. To Drawing number 36656-07-D (Sheet C-4), **DELETE** in its entirety and **REPLACE** with Page 89 of this Addendum.

3. To Drawing number 36656-15-D (Sheet C-12), **DELETE** in its entirety and **REPLACE** with Page 90 of this Addendum.

4. To Drawing number 36656-16-D (Sheet C-13), **DELETE** Sheet C-13 in its entirety and **REPLACE** with Page 91 of this Addendum.

5. To Drawing number 36656-17-D (Sheet C-14), **DELETE** in its entirety and **REPLACE** with Page 92 of this Addendum.

6. To Drawing number 36656-18-D (Sheet C-15), **DELETE** in its entirety and **REPLACE** with Page 93 of this Addendum.

7. To Drawing number 36656-26-D (Sheet C-23), **DELETE** in its entirety and **REPLACE** with Page 94 of this Addendum.

8. To Drawing number 36656-32-D (Sheet C-29), **DELETE** in its entirety and **REPLACE** with Page 95 of this Addendum.

9. To Drawing number 36656-34-D (Sheet C-31), DELETE in its entirety and **REPLACE** with Page 96 of this Addendum.

10. To Drawing number 36656-39-D (Sheet C-36), **DELETE** in its entirety and **REPLACE** with Page 97 of this Addendum.

11. To Drawing number 36656-43-D (Sheet C-40), **DELETE** in its entirety and **REPLACE** with Page 98 of this Addendum.

12. To Drawing number 36656-44-D (Sheet C-41), **DELETE** in its entirety and **REPLACE** with Page 99 of this Addendum.

13. To Drawing number 36656-45-D (Sheet C-42), **DELETE** in its entirety and **REPLACE** with Page 100 of this Addendum.

14. To Drawing number 36656-46-D (Sheet C-43), **DELETE** in its entirety and **REPLACE** with Page 101 of this Addendum.

15. To Drawings numbered 36656-55-D through 36656-61-D (Sheets C-52 through C-58), **DELETE** in their entirety and **REPLACE** with Pages 102 through 108 of this Addendum.

16. To Drawing number 36656-82-D (CP-3), **DELETE** in its entirety and **REPLACE** with Page 109 of this Addendum.

17. To Drawing number 36656-83-D (L-1), **DELETE** in its entirety and **REPLACE** with Page 110 of this Addendum.

18. To Drawings numbered 36656-T1-D through 36656-T249-D (Sheets TC-1 through TC-249), **DELETE** in their entirety and **REPLACE** with Addendum C revised Traffic Control Plan at the City's online bidding service.

James Nagelvoort, Director
Public Works Department

Dated: *October 28, 2014*
San Diego, California

JN/BD/egz

9. **WAGE RATES**. This contract shall be subject to the following Davis-Bacon Wage Decisions:

General Decision Number: CA140001 10/17/2014 CA1

Superseded General Decision Number: CA20130001

State: California

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	01/03/2014
1	01/10/2014
2	01/24/2014
3	02/21/2014
4	05/09/2014
5	05/23/2014
6	05/30/2014
7	06/20/2014
8	07/04/2014
9	07/11/2014
10	07/18/2014
11	07/25/2014
12	08/08/2014
13	08/22/2014
14	10/17/2014

ASBE0005-002 06/30/2014

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems)	$ 35.44	19.36
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls)	$ 24.34	16.09

ASBE0005-004 06/24/2013

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)	$ 16.95	10.23

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER	$ 41.17	28.27

BRCA0004-008 05/01/2014

	Rates	Fringes
BRICKLAYER; MARBLE SETTER	$ 34.10	15.05

BRCA0018-004 06/01/2014

	Rates	Fringes
MARBLE FINISHER	$ 28.45	11.38
TILE FINISHER	$ 23.78	9.84
TILE LAYER	$ 35.14	14.33

BRCA0018-010 09/01/2013

	Rates	Fringes
TERRAZZO FINISHER	$ 26.59	10.34
TERRAZZO WORKER/SETTER	$ 33.63	11.13

CARP0409-002 07/01/2008

	Rates	Fringes
Diver		
(1) Wet	$ 663.68	9.82
(2) Standby	$ 331.84	9.82
(3) Tender	$ 323.84	9.82
(4) Assistant Tender	$ 299.84	9.82

Amounts in "Rates' column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer	$ 17.00	7.41

CARP0547-001 07/01/2009

	Rates	Fringes
CARPENTER		
(1) Bridge	$ 37.28	10.58
(2) Commercial Building	$ 32.30	10.58
(3) Heavy & Highway	$ 37.15	10.58
(4) Residential Carpenter	$ 25.84	10.58
(5) Residential Insulation Installer	$ 18.00	8.16
MILLWRIGHT	$ 37.65	10.58
PILEDRIVERMAN	$ 37.28	10.58

CARP0547-002 07/01/2009

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories		
Drywall Installer/Lather	$ 21.00	8.58
Drywall Stocker/Scrapper	$ 11.00	6.67

(2) All other work
Drywall Installer/Lather...$ 27.35 9.58
Drywall Stocker/Scrapper...$ 11.00 6.67

ELEC0569-001 06/02/2014

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer	$ 44.91	3%+11.87
Electrician	$ 44.16	3%+11.87
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer	$ 40.00	3%+11.87
Electrician	$ 39.25	3%+11.87

---

* ELEC0569-005 09/01/2014

	Rates	Fringes
Sound & Communications		
Sound Technician	$ 28.82	3%+10.81
Soundman	$ 23.06	3%+ 9.17

SOUND TECHNICIAN: Terminating, operating and performing final check-out

SOUNDMAN: Wire-pulling, splicing, assembling and installing devices

SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.

---

* ELEC0569-006 10/06/2014

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1	$ 28.75	3%+7.42
Utility Technician #2	$ 23.90	3%+7.42

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

ELEC0569-008 06/03/2013

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories)	$ 22.37	3%+3.30

ELEC1245-001 06/01/2013

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer	$ 50.30	15.00
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment)	$ 40.17	14.56
(3) Groundman	$ 30.73	13.48
(4) Powderman	$ 44.91	13.48

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day

and day after Thanksgiving, Christmas Day

ELEV0018-001 01/01/2014

	Rates	Fringes
ELEVATOR MECHANIC	$ 49.03	26.785

FOOTNOTE:
PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

ENGI0012-003 07/07/2014

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1	$ 39.05	22.25
GROUP 2	$ 39.83	22.25
GROUP 3	$ 40.12	22.25
GROUP 4	$ 41.61	22.25
GROUP 5	$ 41.86	22.25
GROUP 6	$ 41.83	22.25
GROUP 8	$ 41.94	22.25
GROUP 9	$ 42.19	22.25
GROUP 10	$ 42.06	22.25
GROUP 11	$ 42.31	22.25
GROUP 12	$ 42.23	22.25
GROUP 13	$ 42.33	22.25
GROUP 14	$ 42.36	22.25
GROUP 15	$ 42.44	22.25
GROUP 16	$ 42.56	22.25
GROUP 17	$ 42.73	22.25
GROUP 18	$ 42.83	22.25
GROUP 19	$ 42.94	22.25
GROUP 20	$ 43.06	22.25
GROUP 21	$ 43.23	22.25
GROUP 22	$ 43.33	22.25
GROUP 23	$ 43.44	22.25
GROUP 24	$ 43.56	22.25
GROUP 25	$ 43.73	22.25
OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting)		
GROUP 1	$ 40.40	22.25
GROUP 2	$ 41.18	22.25
GROUP 3	$ 41.47	22.25

GROUP 4.....$ 41.61 22.25
GROUP 5.....$ 41.83 22.25
GROUP 6.....$ 41.94 22.25
GROUP 7.....$ 42.06 22.25
GROUP 8.....$ 42.23 22.25
GROUP 9.....$ 42.40 22.25
GROUP 10.....$ 43.40 22.25
GROUP 11.....$ 44.40 22.25
GROUP 12.....$ 45.40 22.25
GROUP 13.....$ 46.40 22.25

OPERATOR: Power Equipment
(Tunnel Work)

GROUP 1.....$ 40.90 22.25
GROUP 2.....$ 41.68 22.25
GROUP 3.....$ 41.97 22.25
GROUP 4.....$ 42.11 22.25
GROUP 5.....$ 42.33 22.25
GROUP 6.....$ 42.44 22.25
GROUP 7.....$ 42.56 22.25

PREMIUM PAY:

$3.75 per hour shall be paid on all Power Equipment Operator work on the followng Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: $2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating

plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter(concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system

operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bendng machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail

locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote- control earth-moving equipment operator (operating a second piece of equipment: $1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25

yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds.and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator,

operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDRIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type

(over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading

shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point whch is the SW corner of Section 34.T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point

which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

ENGI0012-004 08/01/2014

	Rates	Fringes
OPERATOR: Power Equipment (DREDGING)		
(1) Leverman	$ 48.60	22.40
(2) Dredge dozer	$ 42.63	22.40
(3) Deckmate	$ 42.52	22.40
(4) Winch operator (stern winch on dredge)	$ 41.97	22.40
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand	$ 41.43	22.40
(6) Barge Mate	$ 42.04	22.40

IRON0377-002 07/01/2014

	Rates	Fringes
Ironworkers:		
Fence Erector	$ 26.58	17.74
Ornamental, Reinforcing and Structural	$ 33.50	26.74

PREMIUM PAY:

$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,
Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0089-001 07/01/2013

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1	$ 26.98	15.42
Group 2	$ 27.66	15.42
Group 3	$ 28.37	15.42
Group 4	$ 29.17	15.42
Group 5	$ 31.10	15.42
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer	$ 24.88	13.75
(2) Cleanup, Landscape, Fencing (Chain Link & Wood)	$ 23.59	13.75

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettlemen, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and inclduing rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of oepration, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No

joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all pwder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	$ 27.98	13.39

LABO0089-004 07/01/2013

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	$ 26.98	15.42
Group 2.....	$ 27.66	15.42
Group 3.....	$ 28.37	15.42
Group 4.....	$ 29.17	15.42
Group 5.....	$ 31.10	15.42

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber,Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer,

Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/'2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter,Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting,m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.
GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete

Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prfefabricated Manhole Installer, Sandblast Nozzleman (Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 01/01/2014

	Rates	Fringes
Asbestos Removal Laborer.....	$ 28.00	15.25

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO1184-001 07/01/2014

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...	$ 31.65	13.33
(2) Vehicle Operator/Hauler.	$ 31.82	13.33
(3) Horizontal Directional Drill Operator.....	$ 33.67	13.33
(4) Electronic Tracking Locator.....	$ 35.67	13.33
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	$ 32.56	16.28

GROUP 2.....$ 33.86 16.28
GROUP 3.....$ 35.87 16.28
GROUP 4.....$ 37.61 16.28

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

---

LABO1414-003 08/07/2013

Rates Fringes

LABORER
PLASTER CLEAN-UP LABORER....$ 27.45 16.36
PLASTER TENDER.....$ 30.00 16.36

Work on a swing stage scaffold: $1.00 per hour additional.

Work at Military Bases - $3.00 additional per hour:
Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air

Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2014

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County)	$ 26.89	12.28
(2) All Other Work	$ 30.27	12.28

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 01/01/2014

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction	$ 25.69	13.79
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories)	$ 21.00	13.41

PAIN0036-012 10/01/2013

	Rates	Fringes
GLAZIER	$ 38.80	17.25

PAIN0036-019 07/01/2014

	Rates	Fringes
SOFT FLOOR LAYER	$ 26.77	12.75

PLAS0200-005 08/06/2014

	Rates	Fringes
PLASTERER	$ 37.43	13.28

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: $3.00 additional per hour.

PLAS0500-001 07/01/2014

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1	$ 22.29	17.10
GROUP 2	$ 23.94	17.10
GROUP 3	$ 26.57	17.25

CEMENT MASONS - work inside the building line, meeting the following criteria:

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 07/01/2014

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton	$ 49.21	20.36
Plumber and Pipefitter		
All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work	$ 44.71	20.36
Work ONLY on new additions		

and remodeling of
commercial buildings,
bars, restaurants, and
stores not to exceed 5,000
sq. ft. of floor space.....$ 43.33 19.38
Work ONLY on strip malls,
light commercial, tenant
improvement and remodel
work.....$ 34.59 17.71

PLUM0016-011 07/01/2014

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential	$ 36.15	16.28

PLUM0345-001 07/01/2014

	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter	$ 29.27	19.75
Sewer & Storm Drain Work	$ 33.24	17.13

ROOF0045-001 07/01/2012

	Rates	Fringes
ROOFER	$ 25.08	7.28

SFCA0669-001 07/01/2013

	Rates	Fringes
SPRINKLER FITTER	$ 34.86	18.66

SHEE0206-001 01/01/2012

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton	$ 35.05	19.23
Except Camp Pendleton	$ 33.05	19.23
Sheet Metal Technician	$ 25.22	6.69

SHEET METAL TECHNICIAN - SCOPE:
a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system b. New single family residential buildings including tracts. c. New multi-family residential buildings, not exceeding five stories of living space in height, provided

each unit is heated or cooled by a separate system. Hotels and motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under $1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

---

TEAM0036-001 07/01/2012

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 15.40	20.50
GROUP 2	$ 24.99	20.50
GROUP 3	$ 25.19	20.50
GROUP 4	$ 25.39	20.50
GROUP 5	$ 25.59	20.50
GROUP 6	$ 26.09	20.50
GROUP 7	$ 27.59	20.50

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed,Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
==========

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.
Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor

200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISION

SECTION 13110
CATHODIC PROTECTION SYSTEM

PART 1 – GENERAL

1.1 THIS SECTION INCLUDES

A. The WORK of this Section includes providing a complete cathodic protection system for the following structures as outlined in this Section and on the Drawings:

1. Sections of 12-inch, 16-inch and 36-inch dielectrically coated steel piping

B. Electrical isolation of the structures from adjacent metallic structures, steel reinforced concrete structures, structures of dissimilar metal or dissimilar coatings, conduits and all other metallic components that may impact the operation of the cathodic protection system.

C. Electrical bonding of all non-insulated, non-welded pipe joints, mechanical joints and valves.

D. Installation of galvanic anodes and all other work described herein and on the Drawings.

E. Testing of system during installation.

F. Cleanup and restoration of work site.

G. Testing of installation after installation and backfill (Final System Checkout).

1.2 REQUIREMENTS

A. If the products installed as part of this Section are found to be defective or damaged or if the WORK of this Section is not in conformance with these Specifications then the products and WORK shall be corrected at the CONTRACTOR’s expense.

B. Any retesting required due to inadequate installation or defective materials shall be paid for by the CONTRACTOR.

C. The WORK also requires that one Supplier or Subcontractor accept responsibility for the WORK as indicated, but without altering or modifying the CONTRACTOR’s responsibilities under the Contract Documents.

D. The WORK also requires coordination of assembly, installation and testing between the pipeline contractor and any cathodic protection material supplier or subcontractor.

1.3 RELATED SECTIONS

A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

1. Site Safety and Regulatory Requirements

2. Excavation, Trenching, Backfilling, and Compacting

3. Piping

4. Protective Coatings

1.4 REFERENCED SPECIFICATIONS, CODES AND STANDARDS

A. The WORK of this Section shall comply with the current editions of the following codes and standards:

1. ASTM ASTM International

   a. D1248 Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable

   b. C94 Standard Specification for Ready-Mixed Concrete

   c. B3 Standard Specification for Soft or Annealed Copper Wire

   d. B8 Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft

   e. B418 Cast and Wrought Galvanic Zinc Anodes

   f. D2220 Standard Specification for Polyvinyl Chloride (PVC) Insulation for Cable and Wire

2. AASHTO American Association of State Highway and Transportation Officials

   a. H20 Specification for Highway Bridges

3. NACE International, the Corrosion Society

   a. SP0169 Standard Practice, Control of External Corrosion on Underground or Submerged Metallic Piping Systems

   b. SP0286 Electrical Insulation of Cathodically Protected Pipelines

   c. RP0375 Wax Coating Systems for Underground Piping Systems

   d. TM0497 Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems

B. Whenever the Drawings or these Specifications require a higher degree of workmanship or better quality of material than indicated in the above codes and standards, these Drawings and Specifications shall prevail.

1.5 PERMITS AND JOB ACCESS

A. Prior to the start of construction, the CONTRACTOR shall apply to the required authorities for permits required for installation of the cathodic protection system.

B. The CONTRACTOR shall contact Underground Service Alert prior to commencing construction to locate existing utilities in the area of construction. Existing utilities include, but are not limited to, water lines, gas lines, telephone, street lights, sewer and storm drains and overhead and underground electric utilities.

C. Traffic control shall satisfy the requirements of the governing locality.

1.6 QUALITY ASSURANCE

A. Installation of the cathodic protection equipment shall be performed by individuals having at least 5 years of experience in the installation of the cathodic protection equipment described herein.

B. All testing required to be performed by a "qualified corrosion technician" shall be performed by a NACE Level 2 CP Technician under the supervision of a Corrosion Engineer. A Corrosion Engineer is a Registered Professional Corrosion Engineer or a NACE Level 4 Cathodic Protection Specialist.

1.7 SUBMITTALS

A. The following shall be submitted to the ENGINEER prior to any equipment installation.

1. Catalog cuts, bulletins, brochures, or data sheets for all materials specified herein.

2. Certification that the equipment and materials proposed meet the Specifications and the intent of the Specifications.

3. Written certification of experience required.

4. Schedule including the expected start date and planned completion date.

B. The following shall be submitted to the ENGINEER after completion of the WORK.

1. Wire connection testing.

2. Casing insulator testing, before and after backfill.

3. Joint bond testing, before and after backfill.

4. System check-out report.

5. Record Drawings shall be submitted to and approved by the ENGINEER before the WORK is considered complete.

1.8 INTERFERENCE AND EXACT LOCATIONS

A. The locations of cathodic protection equipment, test stations, devices, outlets and appurtenances as indicated are approximate only. Exact locations shall be determined by the CONTRACTOR in the field subject to the approval of the ENGINEER.

B. The CONTRACTOR shall field verify all data and final locations of work done under other Sections of the Specifications required for placing of the electrical work.

C. In case of interference with other work or erroneous locations with respect to equipment or structures, the CONTRACTOR shall furnish all labor and materials necessary to complete the WORK in an acceptable manner.

PART 2 - PRODUCTS

2.1 GENERAL

A. All materials installed must be new. All equipment and materials supplied shall be similar to that which has been in satisfactory service for at least 5 years.

2.2 ANODE JUNCTION PANEL BOARDS

A. Panel boards shall be made of ¼-inch thick phenolic plastic sized as indicated on the Drawings.

B. Connection hardware shall be brass or bronze. All connections shall be double nutted bolts with lock washers.

C. Copper bus bar shall be 1/8-inch thick and sized to fit. The copper bus bar shall be per ASTM B187, 98% conductivity.

2.3 SOLDERLESS LUG CONNECTORS

A. Solderless lug connector shall be made of brass or copper with a brass screw. The lug shall be designed for direct burial and shall be appropriately sized for the connection wire. The lug shall be ILSCO Type XT-6DB or approved equivalent.

2.4 SHUNTS FOR GALVANIC ANODES

A. Shunts shall be 0.01-Ohm, 6-Ampere, manganin wire type, as indicated. Shunts shall be Type RS as manufactured by Holloway or equivalent.

2.5 CATHODIC PROTECTION TEST BOXES

A. Text box: Concrete Box of dimensions as shown on the drawings. Use pre-cast Concrete San Diego Pre-cast Model 1BSD|K with Cast Iron Lid. The lid shall be 9-1/2 inch diameter with the letters “City of San Diego Corrosion Test Station”.

2.6 STEEL POLE

A. Steel pole shall be 4-inch diameter ANSI B36.10 Galvanized steel pipe.

B. Steel pole shall be painted yellow.

2.7 READY-MIXED CONCRETE

A. Ready-mixed concrete shall be in accordance with ASTM C94.

2.8 UTILITY WARNING AND IDENTIFICATION TAPE

A. The warning and identification tape shall be an inert plastic film designed for prolonged underground use. The tape shall be a minimum of 3 inches wide and a minimum of 4 mils thick. The tape shall be continuously printed over the entire length with the wording "CAUTION: CATHODIC PROTECTION CABLE BURIED BELOW". The wording shall be printed using bold black letters. The color of the tape shall be red.

2.9 WIRES

A. Conductors shall consist of stranded copper of the gauge indicated. Wire sizes shall be based on American Wire Gauge (AWG). Copper wire shall be in conformance with ASTM Designations B3 and B8.

B. All wires terminating in a junction box or test station shall have a wire identifier attached within 4 inches from the end of wire at the terminal board, prior to backfill, as specified under "Wire Identification".

C. High molecular weight polyethylene (HMWPE) insulating jackets shall conform to ASTM D-1248.

D. Joint Bonds:

1. General: Single-conductor, stranded copper wire with 600-Volt HMWPE insulation. Supply joint bonds complete with formed copper sleeve on each end of wire. Bond cable gauge shall be based on the diameter and thickness of the pipe cylinder. Two bond cables shall be used for each non-welded, non-insulating pipe joint.

2. Push-On, Mechanical, or Flanged Joints: 18 inches long, minimum.

3. Flexible Coupling Joints: Depending on joint length but allow 12-inches of slack, with two 12-inch long THHN insulated No. 10 AWG wire pigtails, as manufactured by Erico Products Inc. (Cadweld), Cleveland, OH.

4. Bond valves, tees and crosses: 18 inches long, minimum.

E. Test Station: Single-conductor, No. 10 AWG stranded copper with 600-Volt THWN, or THHN insulation.

F. Insulation Colors: As shown on Drawings.

2.10 WIRE IDENTIFIERS

A. Wire identifiers shall be the wrap-around type with a high resistance to oils, solvents and mild acids. Wrap-around markers shall fully encircle the wire with imprinted alpha-numeric characters for pipe identification. The letters and numbers shall be printed, minimum 3/16 inch in size.

2.11 EXOTHERMIC WELDS

A. Exothermic welds shall be in accordance with the manufacturer's recommendations. Exothermic welds shall be Cadweld, as manufactured by Erico Products, Inc. or Thermoweld as manufactured by Continental Industries, Inc., or approved equivalent. Duxseal packing as manufactured by Johns-Manville or approved equivalent shall be used where necessary to prevent leakage of molten weld metal.

B. The shape and charge of the exothermic weld shall be chosen based on the following parameters:

1. Pipe material
2. Pipe size
3. Wire material/size and requirement for sleeves
4. Number of strands to be welded
5. Orientation of weld (vertical or horizontal)

2.12 GALVANIC ANODES

A. H-1 Alloy Magnesium anodes shall be H-1 Alloy, Grade A cast magnesium anodes, in accordance with ASTM B843.

1. Ingot weight: 50 pounds, Packaged Length: 110 inches

B. Galvanic anodes shall be prepackaged in a cloth bag containing backfill of the following composition; 75% gypsum, 20% bentonite and 5% sodium sulfate. The anodes shall be of the size indicated and placed where indicated.

C. The wire attached to the anodes shall be (AWG) stranded, single conductor, copper and insulated for 600 Volts. Wire size shall be minimum No. 10 AWG THHN and shall conform to the requirements of ASTM D2220. Connection of wire to the anode shall have a pulling strength that exceeds the wire's tensile strength.

D. Anode wires shall be of one continuous length without splices from the anode connection to the test station.

2.13 DIELECTRIC INSULATING FLANGE KITS

A. Insulating flange gaskets shall include full faced gaskets, insulating sleeves and washers and steel bolts, nuts and washers. The complete assembly shall have a pressure rating equal to or greater than the flanges between which it is installed. Insulating Gasket shall be neoprene faced phenolic, 1/8-inch thick. Insulating sleeves shall be Mylar, 1/32-inch thick. Insulating washers shall be 2 sets of 1/8-inch thick phenolic. Sleeves, gaskets and insulating washers shall have a dielectric constant of 300 Volts per mil, minimum. Steel washers shall fit well within the bolt facing on the flange. Insulating washers shall fit within the bolt facing the flange over the outside diameter of the sleeve.

2.14 PETROLATUM TAPE

A. Petrolatum tape system shall be Trenton Primer and #1 Wax-tape, as manufactured by Trenton Corp., or Denso Paste and Densyl Tape by Denso North America, Inc., or approved equivalent.

2.15 PIPE TAPE COATING REPAIR

A. Products and procedures used to repair pipe tape coating to be as per AWWA C-209.

PART 3 - EXECUTION

3.1 STORAGE OF MATERIALS

A. All materials and equipment to be used in construction shall be stored in such a manner to be protected from detrimental effects from the elements. If warehouse storage cannot be provided, materials and equipment shall be stacked well above ground level and protected from the elements with plastic sheeting or other method as appropriate.

3.2 EXCAVATION AND BACKFILL

A. Buried wires shall have a minimum cover of 24 inches.

B. Caution tape shall be installed above buried wire. Caution tape shall be installed a minimum of 6 inches above underground wires and conduits.

C. Anode wire identification tags shall be placed on the wires prior to placing wire in conduit or backfilling.

3.3 TEST STATIONS

A. Test stations shall be installed at the approximate locations shown on the Drawings. Flush mounted test stations shall be located behind the curb and other areas not subject to vehicular traffic. The CONTRACTOR shall field verify final location of the test stations. Wire identifiers shall be placed on all wire prior to backfill and installation of test stations.

B. The CONTRACTOR shall notify the owner of foreign utility piping for which foreign pipeline crossing test stations are to be installed. Notification shall be provided at least 2 weeks in advance. Test leads to foreign pipelines shall be installed in the presence and to the satisfaction of a representative of the foreign pipeline owner.

C. The CONTRACTOR shall provide global positioning system (GPS) coordinates of each test station location with a minimum accuracy of 1 meter or 3 feet. The CONTRACTOR shall submit the GPS coordinates of the test stations to the ENGINEER after installation.

3.4 WIRES

A. Buried wires shall be laid straight without kinks. Each wire run shall be continuous in length and free of joints or splices, unless otherwise indicated. Care shall be taken during installation to avoid punctures, cuts or other damage to the wire insulation. Damage to insulation shall require replacement of the entire length of wire at the CONTRACTOR's expense.

B. At least 18 inches of slack (coiled) shall be left for each wire at each flush-to-grade test station. Wire slack shall be sufficient to allow removal of wire extension for testing. Wire shall not be bent into a radius of less than 2 inches.

C. The wire conduits must be of sufficient diameter to accommodate the wires. This shall be determined by the number and size of wires in accordance with the applicable codes and standards.

3.5 WIRE IDENTIFIERS

A. All wires shall be coded with wire identifiers.

B. Wire identifiers shall be placed on the wires prior to backfill.

3.6 EXOTHERMIC WELD CONNECTIONS

A. Exothermic weld connections shall be installed in the manner and at the locations indicated. Coating materials shall be removed from the surface over an area of sufficient size to make the connection. The surface shall be cleaned to bare metal by grinding or filing prior to welding the conductor. The use of resin impregnated grinding wheels will not be allowed. A copper sleeve shall be fitted over the conductor. Only enough insulation shall be removed such that the copper conductor can be placed in the welding mold.

B. The CONTRACTOR shall be responsible for testing all test lead and bond wire welds. The ENGINEER, at his or her discretion, shall witness these tests.

C. After the weld has cooled, all slag shall be removed and the metallurgical bond shall be tested for adherence by the CONTRACTOR. A 22-ounce hammer shall be used for adherence testing by striking a blow to the weld. Care shall be taken to avoid hitting the wires. All defective welds shall be removed and replaced.

D. After backfilling pipe, all test lead pairs shall be tested for broken welds using a standard ohmmeter. The resistance shall not exceed 150% of the theoretical wire resistance as determined from published wire data.

E. The CONTRACTOR shall inspect both the interior and exterior of the pipe to confirm that all coatings and linings removed or damaged as a result of the welding have been repaired. The CONTRACTOR shall furnish all materials, clean surfaces and repair protective coatings and linings damaged as a result of the welding. Repair of any coating or lining damaged during welding shall be performed in accordance with coating or lining manufacturer's recommendations.

F. All exposed surfaces of the copper and steel shall be covered with insulating materials as indicated.

G. For dielectrically coated pipes, a bitumastic coating shall be applied to all exothermic weld locations. The coating shall be covered with a plastic weld cap. All surfaces must be clean, dry and free of oil, dirt, loose particles, and all other foreign materials prior to application of the coating.

3.7 JOINT BONDS

A. Bond wires shall be provided across flexible couplings and all nonwelded joints, as necessary to ensure electrical continuity, except where insulating joints have been installed to provide electrical isolation. Joint bonds shall be of the size and number shown on the Drawings and installed as indicated. The bond wires shall be at least 18 inches long and shall be installed so as to allow for movement of at least 2 inches in the pipe joint. The wire shall be attached by exothermic welding. At least 2 bonds shall be provided between all discontinuous joints.

3.8 INSULATING JOINTS/DIELECTRIC UNIONS

A. Insulating joints shall be installed to effectively isolate metallic piping from foreign metallic structures. The CONTRACTOR shall test the performance of these insulating joints before and after backfill.

B. Before backfill, the CONTRACTOR shall test the insulating joint using a Gas Electronics Model No. 601 Insulation Checker, or approved equivalent. If the testing results indicate less than 100% insulation, the insulating joints shall be repaired and retested at the CONTRACTOR's expense.

C. After backfill, testing shall be performed by measurement of native pipe-to-soil potentials at both sides of the insulating joint. If the difference in native pipe-to-soil potentials on both sides of the insulating joint is within +/-50 milliVolts, then additional testing shall be performed as follows. Temporary cathodic protection current shall be circulated on one side of the insulating joint. "On" and "Instant Off" pipe-to-soil potentials shall be measured on the other side of the insulating joint. If the "Instant Off" potential is more negative than the native potential, the insulating joint shall be considered deficient and shall be repaired and retested at the CONTRACTOR's expense.

3.9 PETROLATUM TAPE SYSTEM APPLICATION

A. Petrolatum tape system shall be applied on insulating joints and as indicated in the Drawings. Petrolatum tape system shall be applied in accordance with NACE RP0375, and these Specifications. The materials shall be applied according to the Manufacturer's recommendations.

B. All loose scale shall be removed from the surface to be coated with hand tools (wire brush, scraper, rags). Debris and moisture shall be wiped from surface with clean rag. Petrolatum tape shall be applied immediately after applying the primer, using a 1-inch overlap. A spiral wrap shall be used and a slight tension shall be applied to ensure that there are no air pockets or voids. After applying the tape, the applicator shall firmly press and smooth out all lap seams and crevice areas. The tape shall be in tight intimate contact with all surfaces.

3.10 GALVANIC ANODE INSTALLATION

A. Prepackaged anodes shall be installed at the locations indicated. Plastic or paper wrapping shall be removed from the anode prior to lowering the anode into the hole. Anodes shall not be suspended by the lead wires. Anodes shall be backfilled with native soil. Upon completion of compaction of backfill to the top of the anode, and prior to filling the hole and compacting the backfill to the surface, a minimum of 10 gallons of water shall be poured into the hole to saturate the prepackaged anode backfill and surrounding soil.

B. Backfilling with native soil shall proceed in 6-inch lifts, compacting the soil around the anode during each lift until the backfill has reached grade. Damage to the canvas bag, anode-to-wire connection, copper wire or wire insulation will require replacement of the entire assembly. Anodes shall not be backfilled prior to inspection and approval.

C. Anode lead wires shall be installed as shown in the Drawings, and attached to the panel board.

D. Contact the Corrosion Section, with a 48-hour notice, at 619-247-9290 to witness the installation of anodes.

3.11 CASING INSULATORS

A. Casing insulators shall be installed as indicated in the Drawings to effectively isolate the pipeline from the casing. The CONTRACTOR shall test the performance of the casing insulators before and after backfill.

B. After backfill, testing shall be performed by measurement of native pipe-to-soil potentials on the pipeline and the casing at both ends of the casing. If the difference in native pipe-to-soil potentials is greater than 50 milliVolts, the casing shall be considered isolated from the pipeline. If the difference in native pipe-to-soil potentials between pipe and casing is less than 50 milliVolts, then additional testing shall be performed as follows. Temporary cathodic protection current shall be applied to the pipeline. "On" and "Instant Off" pipe-to-soil potentials shall be

measured on the pipeline and the casing at both ends of the casing. If the "Instant Off" potential of the casing is more negative than the native potential of the casing, the pipe is not isolated from the casing and shall be repaired and retested at the CONTRACTOR's expense.

3.12 CONTINUITY TESTING

A. Continuity testing of joint bonds shall be performed by the CONTRACTOR's qualified corrosion technician as defined in this Section after backfill. The electrical continuity test may additionally be performed before backfill at the CONTRACTOR's option.

B. The pipe shall be tested for electrical continuity. Continuity shall be verified using the linear resistance method. The pipe shall be tested in spans that are no less than 250 feet unless the pipe is shorter than 250 feet and no more than 1,000 feet. Each test span shall have two test leads connected to the pipe at each end. Existing test stations can be used. A direct current shall be applied through the pipe using two of four test leads. The potential across the test span shall be measured using the other two test leads. The current applied and voltage drop shall be recorded for a minimum of three different current levels.

C. The theoretical resistance of the pipe shall be calculated. It shall take into account the pipe wall thickness, material, and joint bonds.

D. Acceptance of the test span; The average measured resistance shall be compared to the theoretical resistance of the pipe and bond wires. If the measured resistance is greater than 125% of the theoretical resistance, then the joint bonds shall be considered deficient and shall be repaired and retested at the CONTRACTOR's expense. If the measured resistance is less than 100% of the theoretical resistance then the test and/or calculated theoretical resistance shall be considered deficient and the test span shall be retested and/or recalculated at the CONTRACTOR's expense. If the piping forms a loop which allows current to flow both in and out of the test span, then consideration shall be made for current circulating through both the loop and the test span.

3.13 SYSTEM CHECKOUT

A. Upon completion of the installation, the CONTRACTOR shall provide testing of the completed system by a qualified corrosion technician and the data shall be reviewed by a Corrosion Engineer to ensure conformance with the Contract Documents, NACE SP0169, and NACE RP0286. Contact the Corrosion Section, with a 48-hou notice, at 619-247-9290 to witness the cathodic protection system checkout and any cathodic protection testing.

B. The testing described herein shall be in addition to and not substitution for any required testing of individual items at the manufacturer's plant and during installation.

C. Testing shall be performed at all test leads of all test stations and at the locations of exposed pipe as soon as possible after installation of the cathodic protection system.

D. Testing shall include the following and shall be conducted in accordance with NACE TM0497:

1. Measure and record native pipe-to-soil, casing-to-soil and anode-to-soil potentials at all test locations.

2. Verify electrical isolation at all insulating joints and casing insulators per NACE RP0286.

3. Confirm electrical continuity of the pipeline in accordance with this Section.

4. Measure and record the “On” and “Instant Off” structure-to-soil potentials at each location.

5. Measure and record the current output of each anode.

E. Test results shall be analyzed to determine compliance with NACE SP0169.

F. Test results shall be analyzed to determine if stray current interference is present. Stray current interference is defined as a +/-50 milliVolt shift in a pipeline’s pipe-to-soil potential that is caused by a foreign current source. Stray current interference shall be tested on the project pipeline and foreign pipelines that have a reasonable chance of being affected by stray currents.

G. The CONTRACTOR shall provide a written report, prepared by the Corrosion Engineer, documenting the results of the testing and recommending corrective work, as required to comply with the Contract Documents. Any deficiencies of systems tested shall be repaired and re-tested by the CONTRACTOR at no additional cost to the OWNER.

** END OF SECTION **

PROPOSAL (BID)

The Bidder agrees to the construction of **University Ave Pipeline Replacement**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at $500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
BASE BID							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)		$
2	1	LS	237310	7-10.2.6	Traffic Control		$
3	1	LS	237110	9-3.4.1	Mobilization		$
4	1	AL		9-3.5	Field Orders - Type II		$500,000.00
5	1	AL	541820	7-16.8	Exclusive Community Liaison Services		$250,000.00
6	1	LS	237310	306-1.1.6	Trench Sheeting, Shoring, and Bracing		$
7	100	CY	237110	306-1.2.1.1	Additional Bedding	$	$
8	950,000	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Striping	$	$
9	1,040	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	$	$
10	1	LS	238210	307-2	Remove and Replace Lighted Crosswalk		$
11	86	EA	237310	303-5.10.2	Curb Ramp Type A with Stainless Steel Detectable Warning Tiles	$	$
12	13	EA	237310	303-5.10.2	Curb Ramp Type B with Stainless Steel Detectable Warning Tiles	$	$
13	10	EA	237310	303-5.10.2	Curb Ramp Type C1 with Stainless Steel Detectable Warning Tiles	$	$
14	8	EA	237310	303-5.10.2	Curb Ramp Type C2 with Stainless Steel Detectable Warning Tiles	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
15	56	EA	237310	303-5.10.2	Curb Ramp Type D with Stainless Steel Detectable Warning Tiles	$	$
16	1	EA	237310	303-5.10.2	Curb Ramp Case A with Stainless Steel Detectable Warning Tiles	$	$
17	4	EA	237310	303-5.10.2	Curb Ramp Type C (Case E) with Detectable Warning Tiles	$	$
18	207	LF	237110	306-1.6	36-Inch Steel Water Main	$	$
19	32	LF	237110	306-1.6	24-Inch Steel Water Main	$	$
20	20,572	LF	237110	306-1.6	16-Inch Water Main Class 305	$	$
21	4,046	LF	237110	306-1.6	12-Inch Water Main Class 305	$	$
22	222	LF	237110	306-2.6	16-Inch Steel Water Main in 24" Steel Casing (Robinson)	$	$
23	80	LF	237110	306-1.6	12-Inch Steel Water Main (University)	$	$
24	712	LF	237110	306-1.6	8-Inch Water Main Class 305	$	$
25	46	EA	237110	306-1.6	Fire Hydrant Assembly	$	$
26	6	EA	237110	306-1.6	4-Inch Fire Service Connection	$	$
27	1	EA	237110	306-1.6	6-Inch Fire Service Connection	$	$
28	2	EA	237110	306-1.6	8-Inch Fire Service Connection	$	$
29	2	EA	237110	306-1.6	36-Inch Butterfly Valve Class 250B with By-Pass & 4" Gate Valve	$	$
30	1	EA	237110	306-1.6	24-Inch Butterfly Valve Class 250B	$	$
31	162	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	$	$
32	2	EA	237110	306-23.1	Tunnel Shafts - (Launching Shaft = 40' Long x 15' Wide x 45' Deep), (Receiving Shaft = 10' Diameter x 60' Deep)	$	$
33	360	LF	237110	306-23.1	Robinson Tunnel- Complete (16" Steel Water Main in 36" Steel Casing)	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
34	1	LS	561730	308-7	Landscape and Irrigation - CALTRANS Right of Way		$
35	1	LS	561730	308-7	Tree Removal, trimming, root pruning, root barrier		$
36	1	LS	561730	308-7	Professional Arborist		$
37	1	LS	561730	308-7	3-Year Landscape, Irrigation and Tree Maintenance in CALTRANS Right of Way		$
38	360	LF	237110	306-1.9	University Bridge Crossing (Dual 12" Steel Water Pipe in 16" Steel Casing)	$	$
39	1	LS	238190	306-1.6	Cathodic Protection		$
40	4,570	LF	237110	306-5.3	Large Water Main Abandonment	$	$
41	240	EA	237110	306-14.1	1 Inch Water Service	$	$
42	10	EA	237110	306-14.1	1 Inch Water Service Transfer	$	$
43	53	EA	237110	306-14.1	2 Inch Water Service	$	$
44	5	EA	237110	306-14.1	2 Inch Water Service Transfer	$	$
45	19	EA	237110	306-18	4-Inch Blowoff Valve Assembly	$	$
46	1	EA	237110	306-18	Blow-off Sta. 84+66.00 (Robinson Tunnel)	$	$
47	25	EA	237110	306-19	2-Inch Air & Vacuum Assemblies, Class 250	$	$
48	1	LS	541330	701-13.9.5	Water Pollution Control Program Development		$
49	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation		$
50	4,000	LF	541690	707-3	Paleontological Monitoring Program	$	$
51	1	AL	541690	707-4	Archeological and Native American Mitigation and Curation - Type I		$10,000.00
52	100	CY	541690	707-5	Paleontological Mitigation and Excavation	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
53	46,200	LF	237110	600-1.2.2.10	High-lining by the Contractor	$	$
54	46,200	LF	237110	600-1.2.1.3	High-lining Removed by Contractor	$	$
55	1,659	CY	237110	306-1.6	Imported Backfill	$	$
56	1	AL	238210	306-13	Verizon Fiber Optic Relocation – Type I		$100,102.00
57	1	LS	238990	703-20	Preparation of Hazardous Waste Management Plan and Reporting		$
58	20	TON	238990	703-20	Monitoring, Testing, Sampling Site Storage and Handling of Soils Containing Non-RCRA Hazardous Waste	$	$
59	20	TON	238990	703-20	Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste	$	$
60	314	EA	237310	302-1.12	Traffic Detector Loop Replacement	$	$
61	1	LS	238210	307-2	Traffic Signal Relocations (Intersections of Robinson and Sixth; University and Texas)		$
62	20	EA	238210	307-2	Pedestrian Push Buttons	$	$
63	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions		$
64	1	AL	237310	7-10.2.6	Portable Changeable Message Signs (PCMS) - Type I		$6,500.00
65	1	LS	237310	4-1.3.4	Special Inspection and Testing of Field Welds		$
66	570	LF	238910	300-1.4	Removal and Disposal of Railroad Tracks	$	$
67	100	CY	237310	300-1.4	Additional Pavement Removal & Disposal	$	$
68	1,500	SF	237310	302-3.2	Asphalt Pavement Repair	$	$
69	1,500	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	$	$
70	1,945	SY	237310	302-7.4	Pavement Fabric	$	$
71	896	TON	237310	306-1.5.1	Temporary Resurfacing	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
72	25,000	SF	237310	302-1.12	Cold Mill AC Pavement (0 - 1 1/2")	$	$
73	500	LB	237310	302-14.5	Crack Seal	$	$
74	200	LF	237310	303-5.9	Additional Curb and Gutter	$	$
75	10	EA	237310	303-5.9	Contractor Date Stamp and Impressions	$	$
76	1,000	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	$	$
77	165	EA	237110	306-1.6	Thrust Blocks and Anchor Blocks	$	$
78	1	EA	237110	306-1.6	6-Inch Gate Valve	$	$
79	12	EA	237110	306-1.6	8-Inch Gate Valve	$	$
80	82	EA	237110	306-1.6	12-Inch Gate Valve	$	$
81	9	EA	237110	306-5.3	Removal of Abandoned Water Meter Box	$	$
82	20	EA	238210	307-2	Pedestrian Barricade SDE-103	$	$
83	6	EA	238210	307-2	Pedestrian Railing Barricade	$	$
84	2,065	LF	237110	708-6	Handling and Disposal of Non-friable Asbestos Material	$	$
85	4	EA	237110	207-10.2.5	12-Inch Double Ball Flexible Expansion Joint	$	$
86	1	LS	237110	207-10.2.5	Potholing		$
87	1	LS	237110	7-10.2.6	Traffic Control Design		$
88	1	LS	237110	7-8.3	Mitigation of Noise During Nighttime Operations		$
89	20	EA	237110	306-5.3	Removal of Valves on Abandoned Pipe and Restoration of Pavement	$	$
90	2	EA	237110	600-1.4.9	4-Inch Cut and Plug by Contractor	$	$
91	15	EA	237110	600-1.4.9	6-Inch Cut and Plug by Contractor	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
92	13	EA	237110	600-1.4.9	8-Inch Cut and Plug by Contractor	$	$
93	4	EA	237110	600-1.4.9	12-Inch Cut and Plug by Contractor	$	$
94	7	EA	237110	600-1.4.9	16-Inch Cut and Plug by Contractor	$	$
95	2	EA	237110	600-1.4.9	20-Inch Cut and Plug by Contractor	$	$
96	25	EA	237110	600-1.4.9	24-Inch Cut and Plug by Contractor	$	$
97	8	EA	237110	600-1.4.9	30-Inch Cut and Plug by Contractor	$	$
98	1	EA	237110	600-1.3.2.10	4-Inch Connections to The Existing System by Contractor	$	$
99	15	EA	237110	600-1.3.2.10	6-Inch Connections to The Existing System by Contractor	$	$
100	49	EA	237110	600-1.3.2.10	8-Inch Connections to The Existing System by Contractor	$	$
101	1	EA	237110	600-1.3.2.10	10-Inch Connections to The Existing System by Contractor	$	$
102	32	EA	237110	600-1.3.2.10	12-Inch Connections to The Existing System by Contractor	$	$
103	4	EA	237110	600-1.3.2.10	16-Inch Connections to The Existing System by Contractor	$	$
104	1	EA	237110	600-1.3.2.10	20-Inch Connections to The Existing System by Contractor	$	$
105	3	EA	237110	600-1.3.2.10	36-Inch Connections to The Existing System by Contractor	$	$
106	1	EA	237110	600-1.3.2.10	48-Inch Connections to The Existing System by Contractor	$	$
107	25	EA	237110	303-5.9	Contractor Date Stamp and Impressions	$	$
108	5	EA	237110	306-1.1.1	Temporary Connections to Existing System	$	$
109	200	CY	237110	303-5.10.2	Imported Backfill for Curb Ramp Construction	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
110	1	AL	237110	9-3.1	Allowance for Additional Work Within Caltrans ROW at University Avenue Bridge Crossing and at Robinson Avenue Bridge Crossing/Tunnel		$350,000.00
						ESTIMATED TOTAL BASE BID:	**$**

TOTAL BID PRICE FOR BID (Items 1 through 110 inclusive) amount written in words:

_____

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: _____

The names of all persons interested in the foregoing proposal as principals are as follows:

_____

_____

_____

_____

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

Bidder: _____

Title: _____

Business Address: _____

Place of Business: _____

Place of Residence: _____

Signature: _____

NOTES:

A. The City shall determine the low Bid based on the Base Bid alone.

B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.

C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.

D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.

E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.

F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.

G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.

H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

I. Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

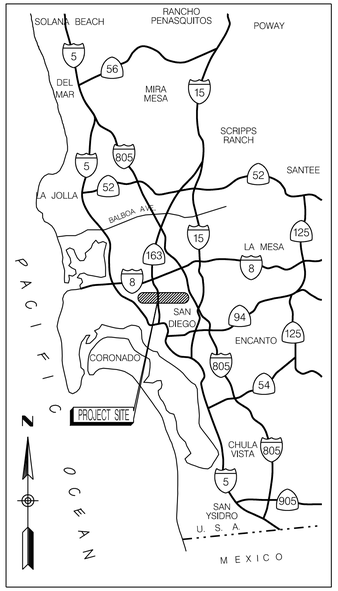
UNIVERSITY AVE PIPELINE REPLACEMENT

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

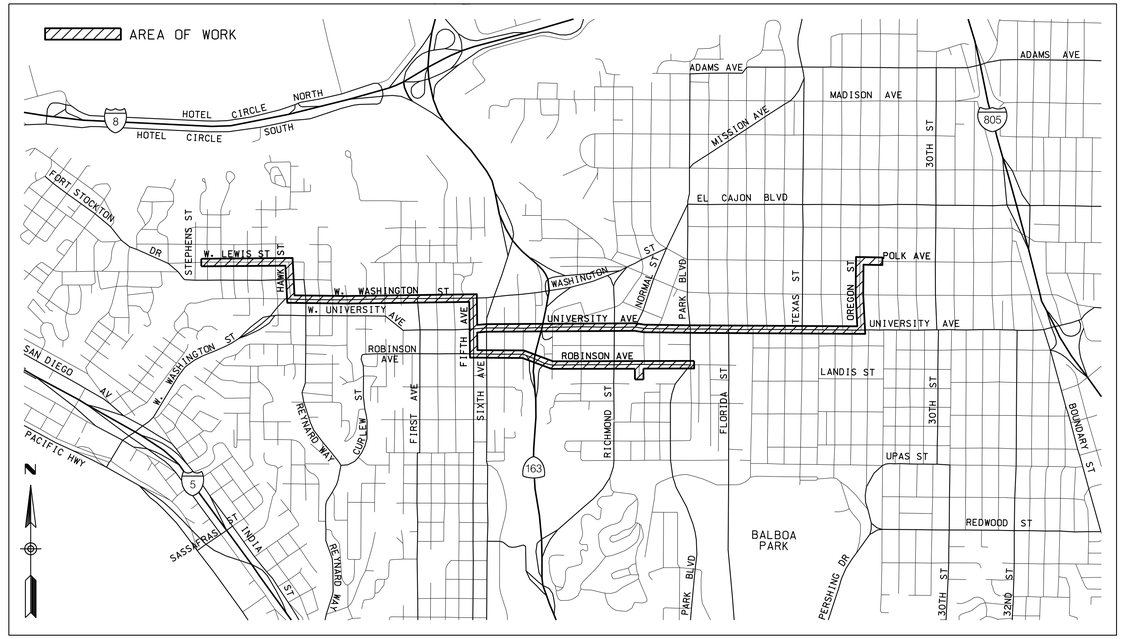
STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NO SCALE

G-1

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Robert J. Wa... 10/6/2014
PROJECT ENGINEER DATE

CONSULTANT
Brown AND Caldwell

PLANS FOR THE CONSTRUCTION OF
UNIVERSITY AVE PIPELINE REPLACEMENT
COVER SHEET

CONSTRUCTION CHANGE / ADDENDUM

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.
C	10/6/14	7, 15, 16, 17, 18, 26, 32, 34, 39, 43, 44, 45, 46, 55, 56, 57, 58, 59, 60, 61, 82, 83	

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
PUBLIC WORKS PROJECT

CONSTRUCTION SITE STORM WATER PRIORITY (INSPECTION FREQUENCY): HIGH.____ MEDIUM..X.. LOW.____

SPEC. NO. 5716

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
PVC PIPE CL 235 (C905 DR-18)	-
STL PIPE ASTM 53 GRADE B	-
GATE VALVES	-
BUTTERFLY VALVES	-
FIRE HYDRANTS	-
BLOW-OFF VALVES	-
AIR/VACUUM VALVES	-

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARDEN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
10/06/2014

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 01 OF 86 SHEETS

APPROVED J. Bonnell 10/6/2014
FOR CITY ENGINEER DATE
IRAJ ASCHARZADEH
PRINT NAME

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

WATER WBS S-11021
SEWER WBS N/A

SUBMITTED BY F. Michael Bafous
PROJECT MANAGER

APPROVED BY Francisco Mendoza
PROJECT ENGINEER

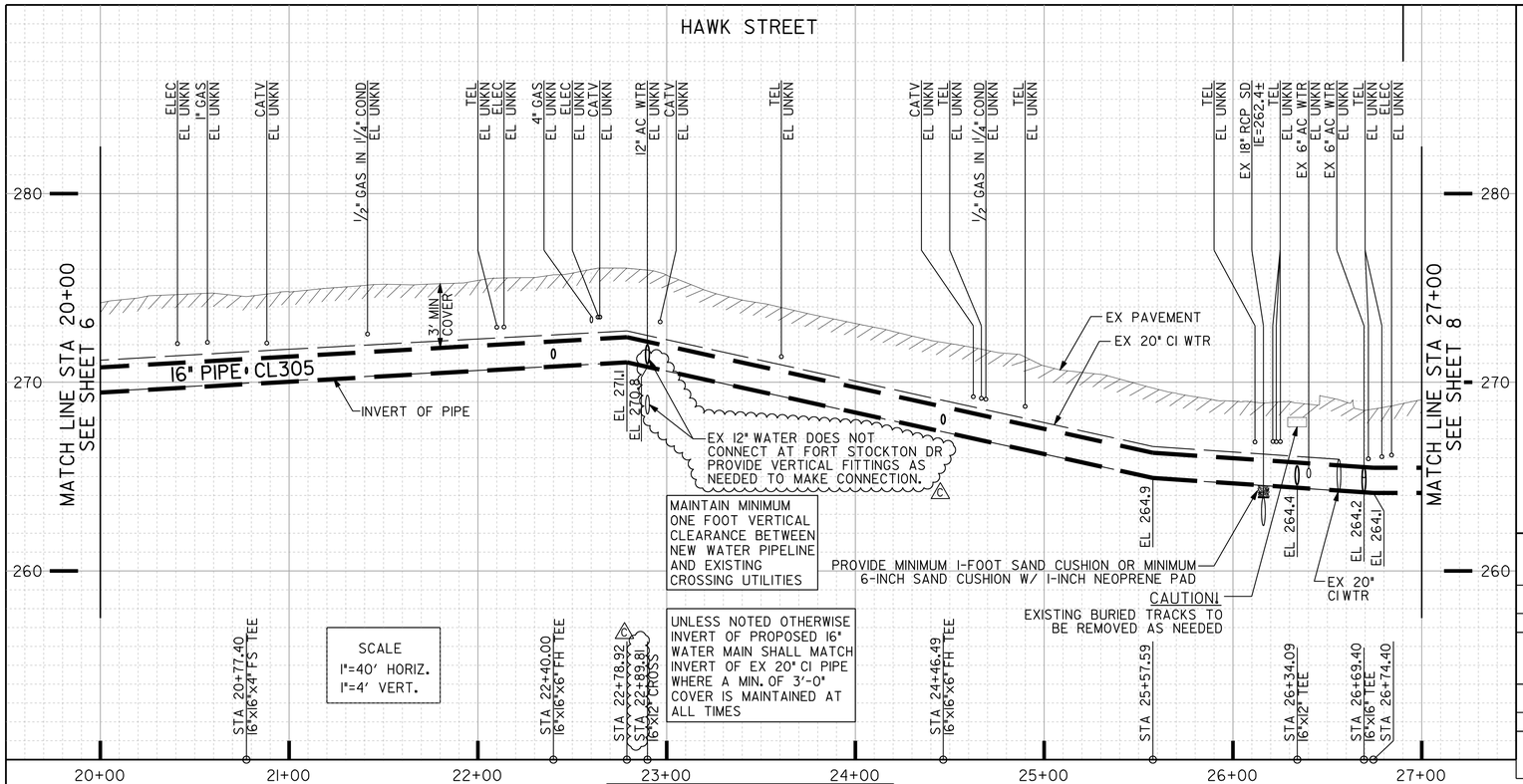
SEE SHEETS
CCS27 COORDINATE

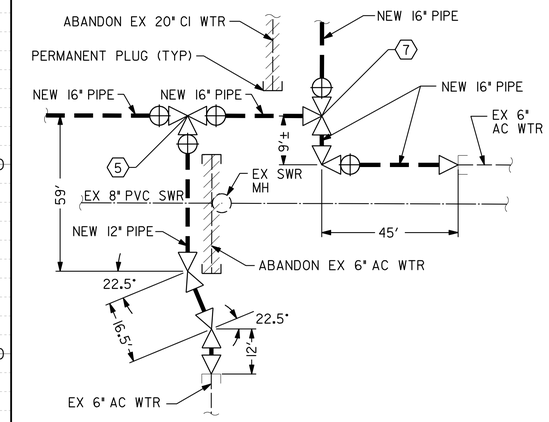
SEE SHEETS
CCS83 COORDINATE

36656-01-D

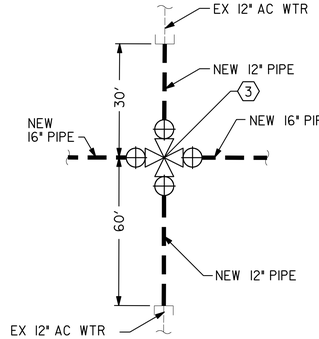
ADDENDUM C

UNIVERSITY AVE PIPELINE REPLACEMENT





DETAIL B
W. WASHINGTON ST. AT HAWK ST.
NTS



DETAIL A
FORT STOCKTON DR. AT HAWK ST.
NTS

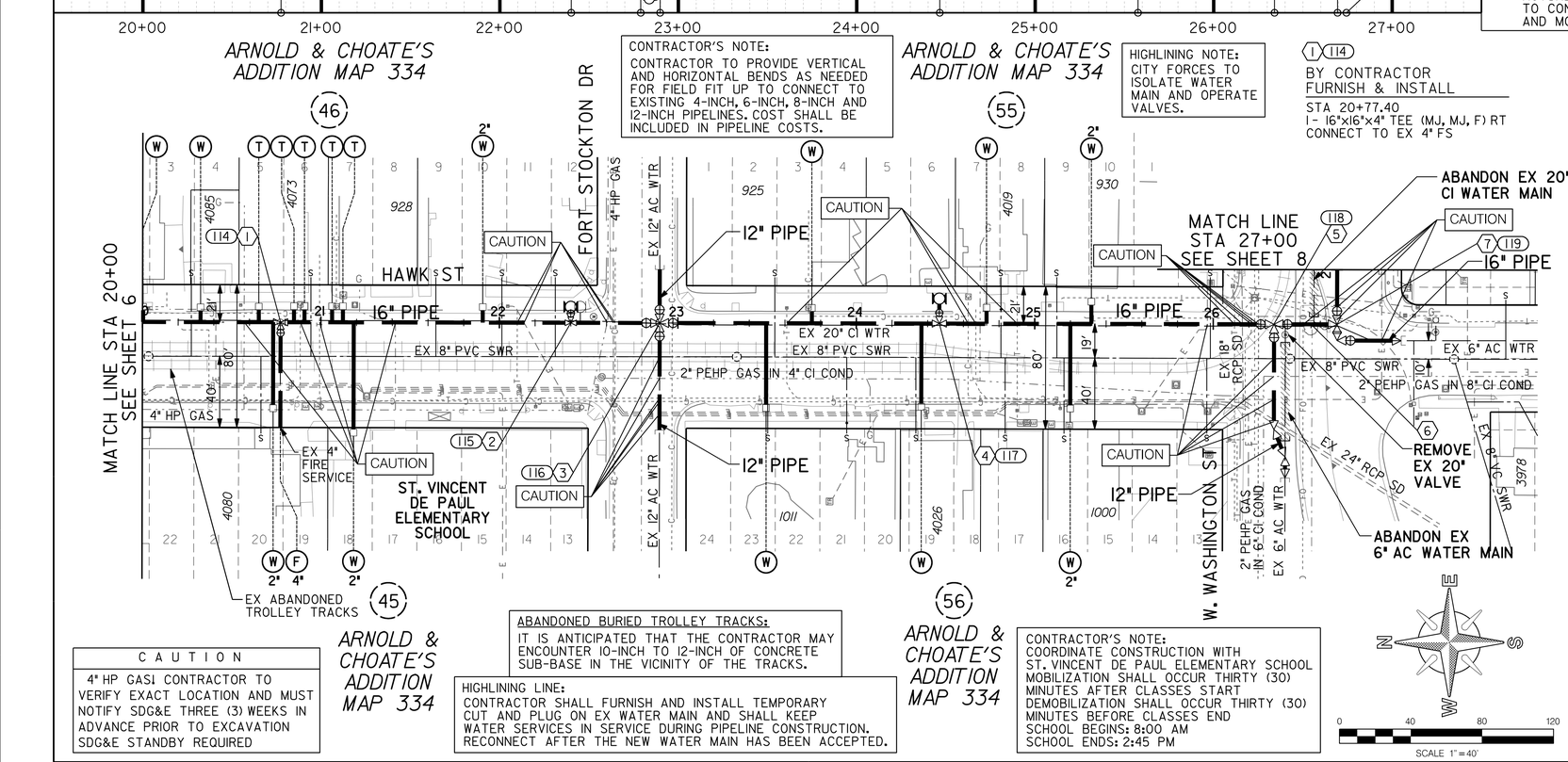
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 20+00	STA 27+00	700

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 20+00	STA 27+00	700

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

REFERENCE:
WATER: 14524-L, 10296-7-D, 12593-D, 12749-3-D, 15598-5-D
SEWER: 26310-11-D, 26310-12-D, 26310-15-D, 26310-23-D, 26310-30-D
STORM DRAIN:
GAS: 22-332, 22-389, 22-392
ELECTRIC: 212-1716C
CABLE TV:
TELEPHONE: un0502da, un0502dc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI9S
THOMAS BROS.: 1268-J5
HGL: 464.30

RETIREMENTS:
20" - 660' CI 1915
FH (4-PORT) - 1
12" - 30' AC 1962
12" - 60' AC 1962
8" - 45' AC 1998
6" - 85' AC 1959
3/4" SERVICE - 5
1 1/2" SERVICE - 5
UNKN SERVICE - 3
8" FIRE SERVICE - 1- UNKN



CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

(1) 114
BY CONTRACTOR
FURNISH & INSTALL
STA 20+77.40
1- 16"x16"x4" TEE (MJ, MJ, F) RT
CONNECT TO EX 4" FS

(2) 115
BY CONTRACTOR
FURNISH & INSTALL
STA 22+40.00
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER

(3) 116
BY CONTRACTOR
FURNISH & INSTALL
STA 22+89.81
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
30' - 12" CL305 PIPE, LT
60' - 12" CL305 PIPE, RT
SEE DETAIL A

(4) 117
BY CONTRACTOR
FURNISH & INSTALL
STA 24+46.49
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

(5) 118
BY CONTRACTOR
FURNISH & INSTALL
STA 26+34+09
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) RT
2 - 12" 22 1/2" BEND (MJ) 59.1 RT, 75.5' RT
1- 12"x6" RED (MJ) 85' RT
87' - 12" CL305 PIPE, RT
SEE DETAIL B

(6)
BY CONTRACTOR
STA 26+54.84
REMOVE AND REPLACE
EX TREE AND EX MEDIAN
IN KIND

(7) 119
BY CONTRACTOR
FURNISH & INSTALL
STA 26+69.40
1- 16" TEE (F)
2 - 16" ADAPTER, BK, AHD
1- 16" 90° BEND (MJ, F) RT
1- 16" BFV (F, MJ) RT
1- 16"x6" RED (MJ) 45' RT
1- 16" BFV (F, MJ) AHD
SEE DETAIL B

CAUTION
4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
COORDINATE CONSTRUCTION WITH ST. VINCENT DE PAUL ELEMENTARY SCHOOL MOBILIZATION SHALL OCCUR THIRTY (30) MINUTES AFTER CLASSES START DEMOBILIZATION SHALL OCCUR THIRTY (30) MINUTES BEFORE CLASSES END
SCHOOL BEGINS: 8:00 AM
SCHOOL ENDS: 2:45 PM

PRESSURE ZONE: ALVARADO 536

C-4

UNIVERSITY AVE PIPELINE REPLACEMENT

HAWK STREET
16" WATER PIPELINE A
PLAN AND PROFILE
STA 20+00 TO STA 27+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 07 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH — DATE 10/6/2014
DESIGNED: F. Michael Bogosian — PROJECT MANAGER
CHECKED: Thomas Rodan — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

WATER WBS S-11021
SEWER WBS N/A
210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE
36656-07-D

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

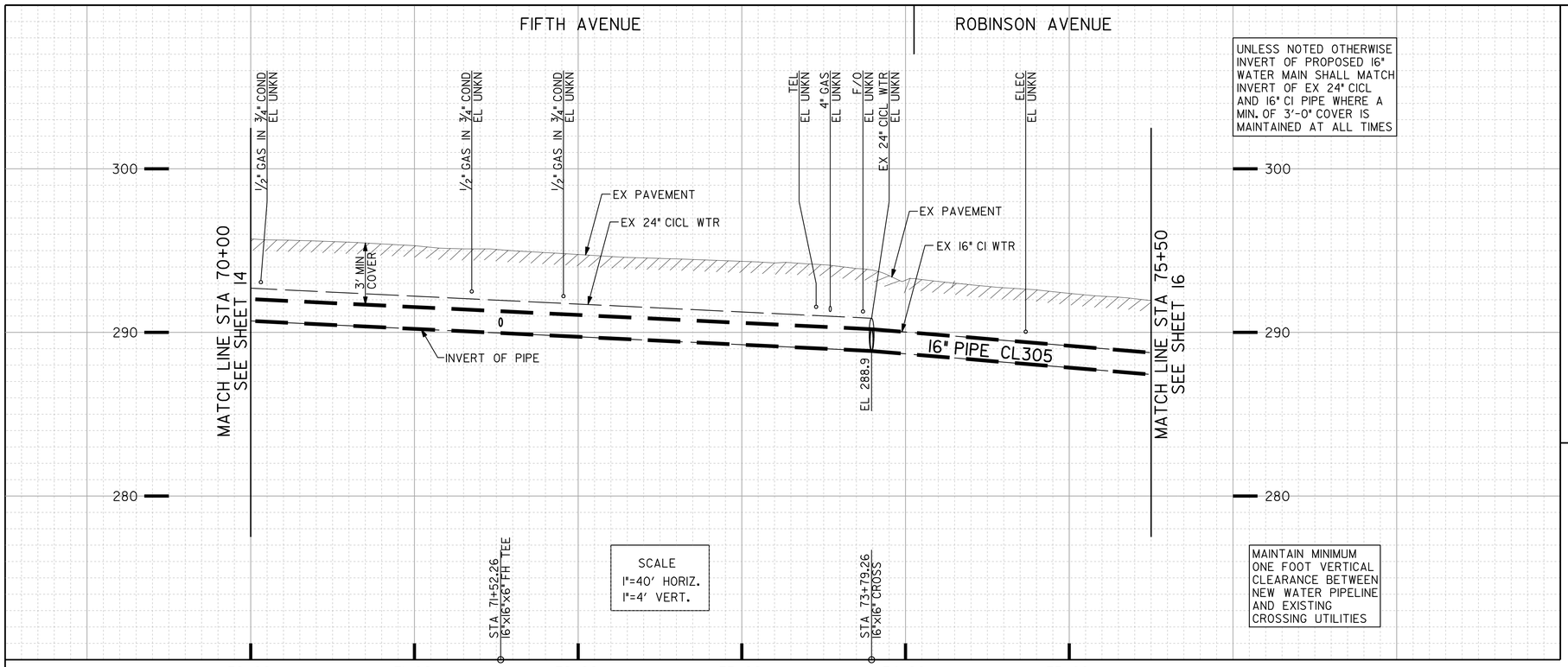
REGISTERED PROFESSIONAL ENGINEER JUDSON W. JONES No. CA5272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
10/06/2014

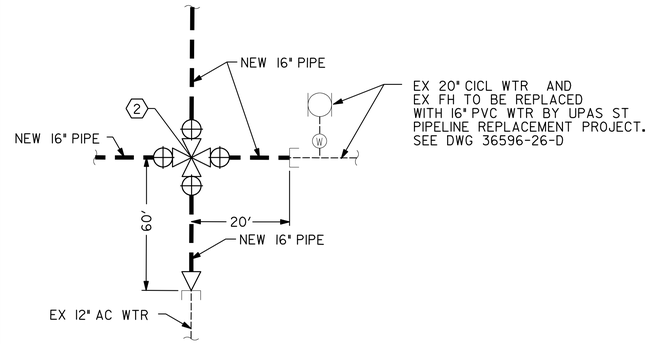
Brown AND Caldwell

HAWK STREET

A CORRECT STATION CALLOUT IN PROFILE AND ADD CLARIFICATION NOTE FOR EXISTING 12" WATER ON PROFILE AT FORT STOCKTON CROSSING

ADDENDUM C



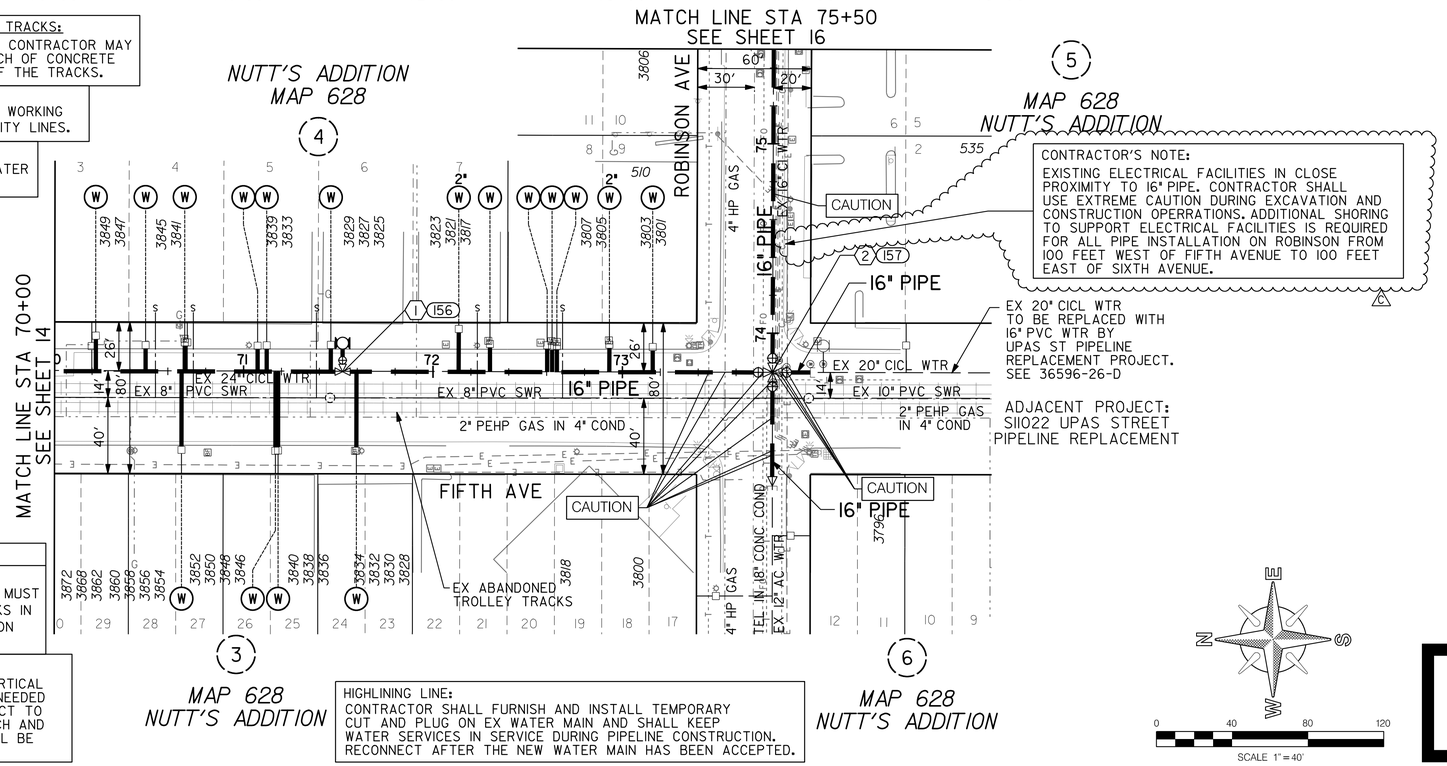


DETAIL A
ROBINSON AVE. AT FIFTH AVE.
NTS

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.



C A U T I O N
4" HP GASI CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

1 156
BY CONTRACTOR
FURNISH & INSTALL
STA 71+52.62
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER

2 157
BY CONTRACTOR
FURNISH & INSTALL
STA 73+79.26
1- 16" CROSS (F)
4 - 16" BFV (F, MJ) BK, RT, LT, AHD
1- 16"x12" RED (MJ) 60' RT
20' - 12" CL305 PIPE, AHD
60' - 12" CL305 PIPE, RT
SEE DETAIL A

REFERENCE:
WATER: 8055-2-W, 11934-2-D, 15598-4-D, 24760-15-D, 36596-26-D
SEWER: 12395-1-D, 22247-4-D
STORM DRAIN: 6151-1-R
GAS: 22-289, 22-341
ELECTRIC: 212-1719A, 212-1719C
CABLE TV:
TELEPHONE: un0102dc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-A5
HGL: 468.44

RETIREMENTS:
24" - 380' CICL 1915
20" - 20' CICL 1915
16" - 171' CI 1959
12" - 60' AC 1958
3/4" SERVICE - 9
1" SERVICE - 3
2" SERVICE - 2
UNKN SERVICE - 3

PRESSURE ZONE: ALVARADO 536

C–12

UNIVERSITY AVE PIPELINE REPLACEMENT

FIFTH AVENUE /ROBINSON AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 70+00 TO STA 75+50

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 15 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — DATE 10/6/2014
DESIGNED BY: F. Michael Bafoua, PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-15-D

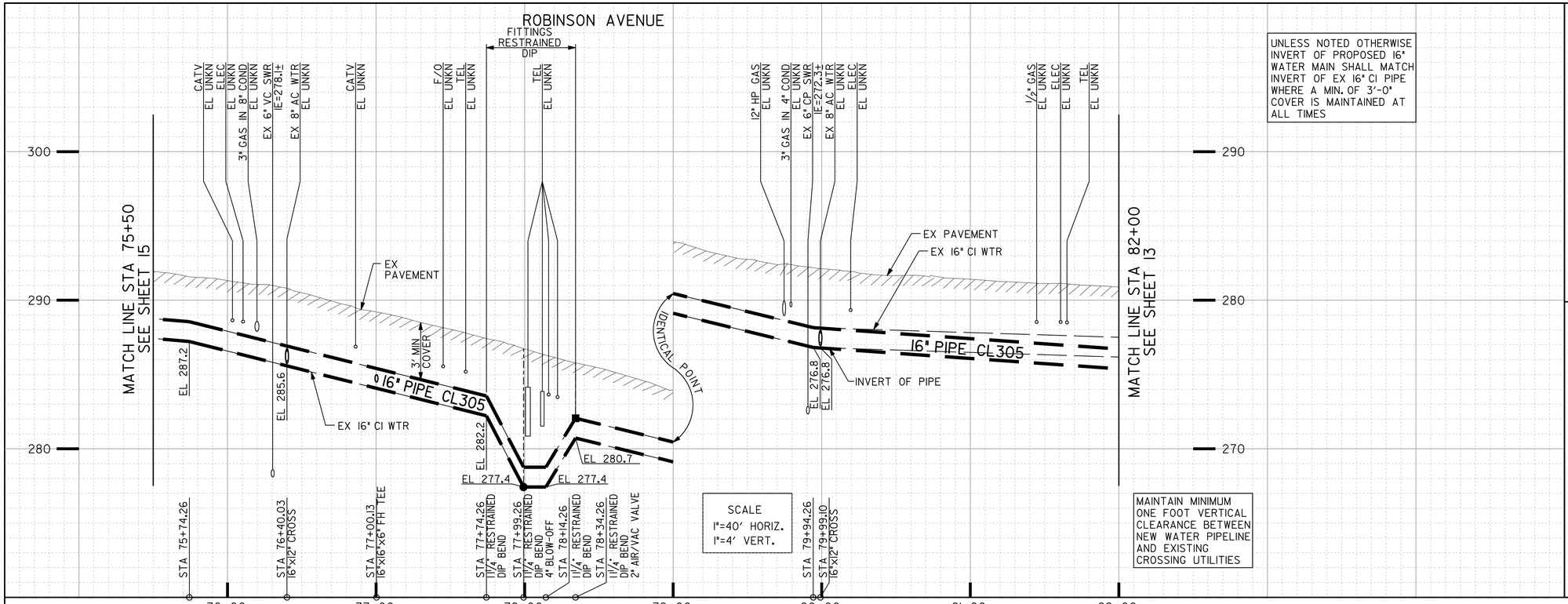
Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — Richard Judson Wagner — No. C43272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA
10/06/2014

FIFTH AVENUE /ROBINSON AVENUE

ADDENDUM C

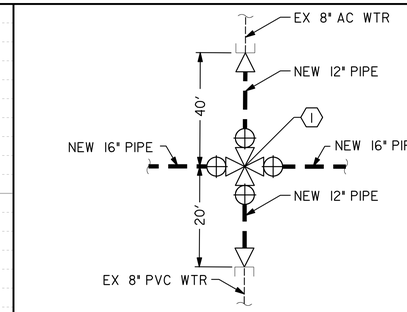
C ADD CONTRACTOR'S NOTE FOR ADDITIONAL SHORING TO PROTECT EXISTING ELECTRICAL



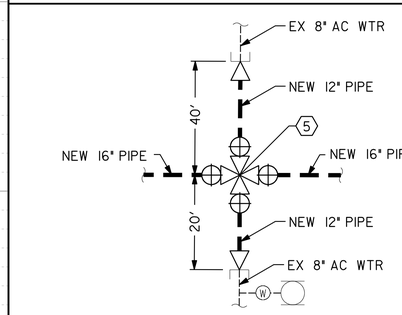
UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 16" CI PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

SCALE
1"=40' HORIZ.
1"=4' VERT.

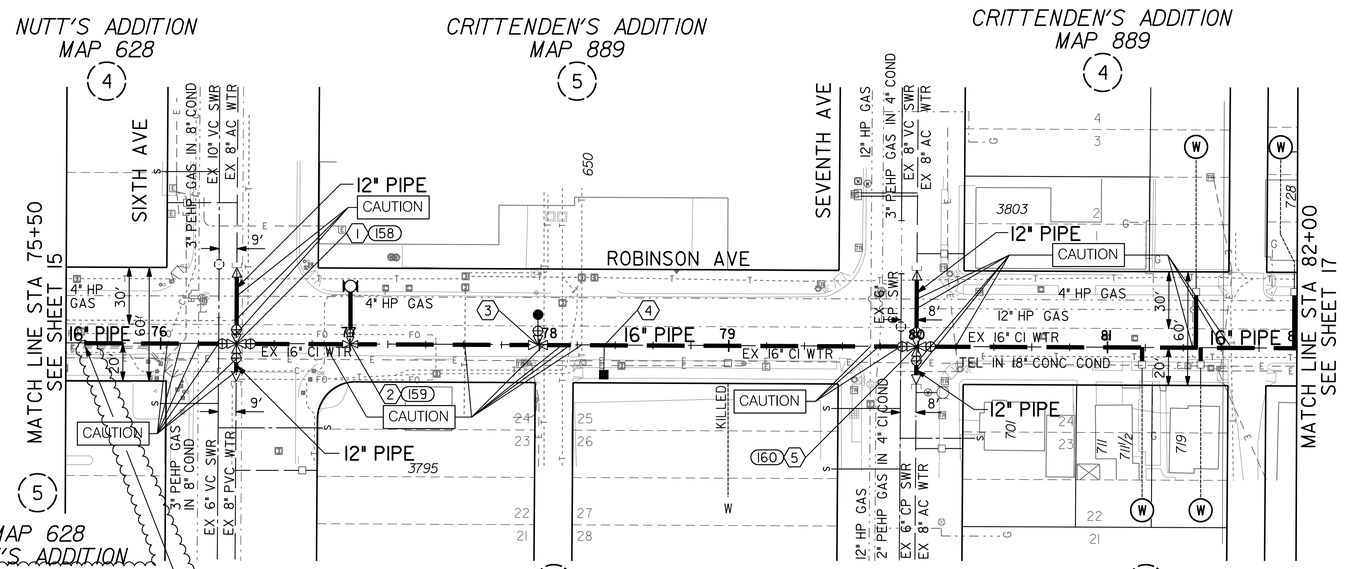
MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
SIXTH AVE. AT ROBINSON AVE.
NTS



DETAIL B
SEVENTH AVE. AT ROBINSON AVE.
NTS



CONTRACTOR'S NOTE:
EXISTING ELECTRICAL FACILITIES IN CLOSE PROXIMITY TO 16" PIPE. CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION AND CONSTRUCTION OPERRATIONS. ADDITIONAL SHORING TO SUPPORT ELECTRICAL FACILITIES IS REQUIRED FOR ALL PIPE INSTALLATION ON ROBINSON FROM 100 FEET WEST OF FIFTH AVENUE TO 100 FEET EAST OF SIXTH AVENUE.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

N
W
E
S
0 40 80 120
SCALE 1"=40'

(1)(158)
BY CONTRACTOR
FURNISH & INSTALL
STA 76+40.03
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 20' RT
40' - 12" CL305 PIPE, LT
20' - 12" CL305 PIPE, RT
SEE DETAIL A

(2)(159)
BY CONTRACTOR
FURNISH & INSTALL
STA 77+00.13
1 - 16"x16"x6" TEE (MJ, MJ, F) LT
1 - 6", 3-PORT FH ASSY & MARKER

(3)
BY CONTRACTOR
FURNISH & INSTALL
STA 77+99.26
1 - 16"x16"x4" TEE (MJ, MJ, F) LT
1 - 4" BLOW-OFF ASSY

(4)
BY CONTRACTOR
FURNISH & INSTALL
STA 78+34.26
1 - 2" AIR/VACUUM VALVE ASSY, RT

(5)(160)
BY CONTRACTOR
FURNISH & INSTALL
STA 79+99.10
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 20' RT
40' - 12" CL305 PIPE, LT
20' - 12" CL305 PIPE, RT
SEE DETAIL B

CAUTION
12" HP GASI CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

REFERENCE:
WATER: 8055-2-W, 12045-10-D, 15598-4-D, 20548-5-D, 26527-8-D
SEWER: 1297-1-L, 12395-3-D, 12395-5-D, 22336-3-D, 22336-4-D
STORM DRAIN:
GAS: 2-257, 2-257A, 2-261, 22-256, 22-257
ELECTRIC: 212-1719A, 212-1719B
CABLE TV:
TELEPHONE: un010lbc, un010lbd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-A6
HGL: 469.06

RETIREMENTS:
16" - 650' CI 1959
8" - 40' AC 1984
8" - 20' PVC 1996
8" - 40' AC 1965
8" - 20' AC 1965
¾" SERVICE - 3
1" SERVICE - 1
UNKN SERVICE - 1

PRESSURE ZONE: ALVARADO 536

C-13

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — JUDSON WADE — NO. C43272 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA
10/06/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 75+50 TO STA 82+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 16 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — DATE 10/6/2014
DESIGNED BY: F. Michael Bafouna — PROJECT MANAGER
CHECKED BY: Therencia Bolton — PROJECT ENGINEER

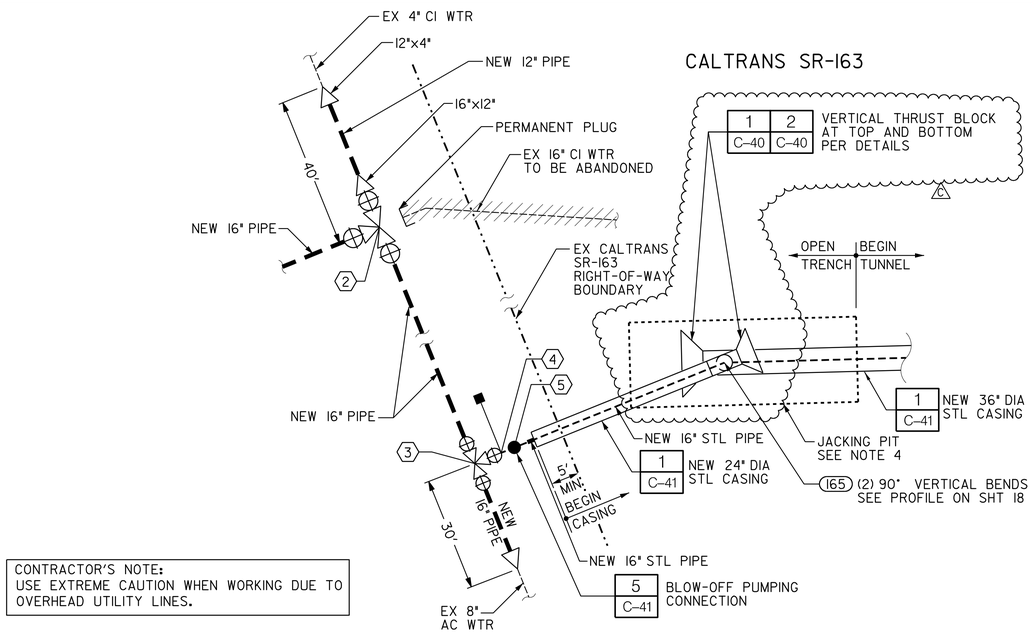
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
A ADDENDUM C	BC	JA	10/6/14	

WATER WBS S-11021
SEWER WBS N/A
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-16 -D

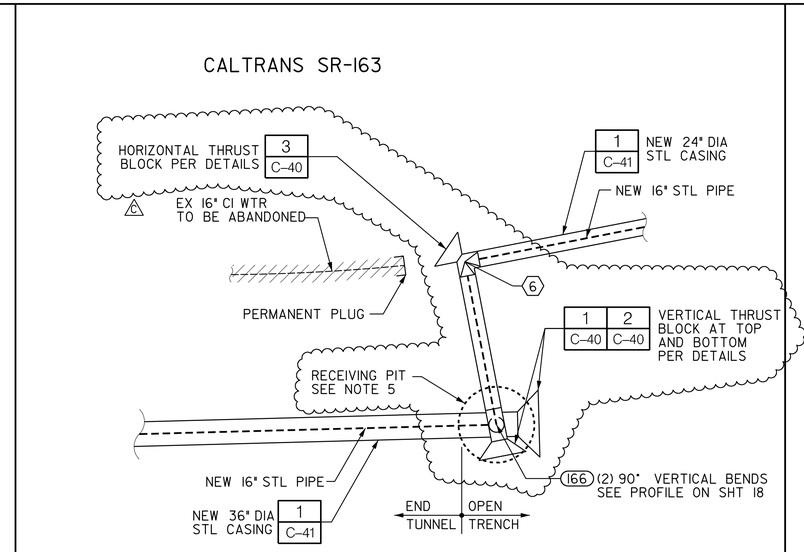
ROBINSON

ADDENDUM C

A ADD CONTRACTOR'S NOTE FOR ADDITIONAL SHORING TO PROTECT EXISTING ELECTRICAL



DETAIL A
EIGHTH AVE. AT ROBINSON AVE.
NTS



DETAIL B
SR-163 NORTHBOUND OFF-RAMP AT ROBINSON AVE.
NTS

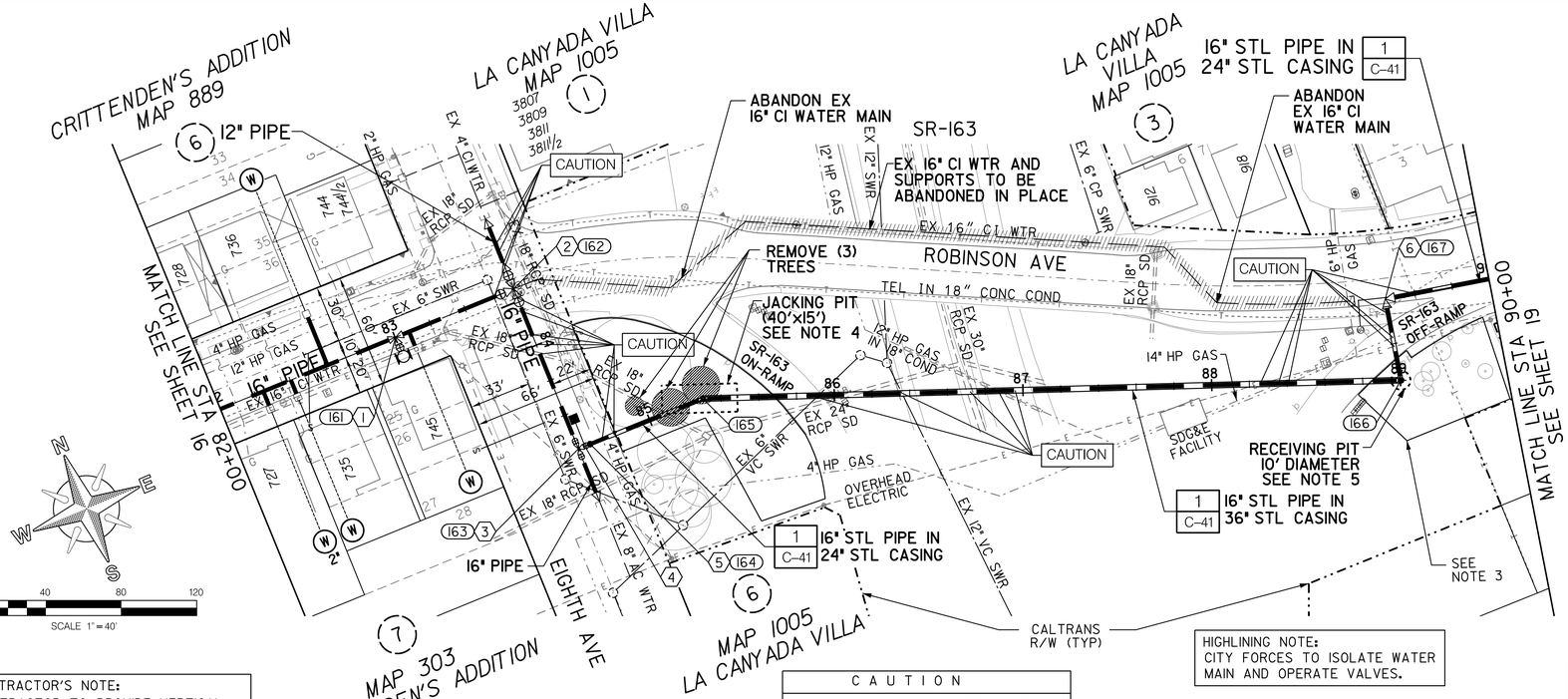
PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

NOTES:

1. SEE LANDSCAPE PLANS, SHEETS 83 THROUGH 86, FOR LIMITS OF LANDSCAPE AREA.
2. ONLY THREE TREES ARE TO BE REMOVED AS SHOWN ON THIS PLAN. ALL OTHER TREES SHALL BE PROTECTED IN PLACE. SEE LANDSCAPE SHEETS FOR ADDITIONAL REQUIREMENTS.
3. INSTALL TEMPORARY SIX-FOOT HIGH CHAIN LINK PERIMETER FENCE AROUND JACKING AND RECEIVING CONSTRUCTION AREAS. APPROXIMATE LIMITS SHOWN ON THIS PLAN. CONTRACTOR SHALL COORDINATE WITH CALTRANS FOR FINAL LIMITS OF FENCING REQUIRED.
4. JACKING PIT SHALL BE APPROXIMATELY 40' LONG x 15' WIDE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF ON-RAMP PAVEMENT. C
5. RECEIVING PIT SHALL BE APPROXIMATELY 10' DIAMETER OR 10' SQUARE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF OFF-RAMP PAVEMENT.
6. ALL 16-INCH DIAMETER STEEL CARRIER PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. MINIMUM WALL THICKNESS OF 3/8" REQUIRED. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
7. VIDEOTAPE INSPECTION OF REPAIRED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
8. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.
9. SEE SHEET SHEET 44 FOR ADDITIONAL NOTES AND DETAILS.

ROBINSON AVENUE /EIGHTH AVENUE



(1)(161) BY CONTRACTOR FURNISH & INSTALL
STA 83+00.31
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

(2)(162) BY CONTRACTOR FURNISH & INSTALL
STA 83+67.86
1- 16" TEE (F)
2 - 16" BFV (F, MJ) BK, RT
1- 16" BFV (F) LT
1- 16"x12" RED (F, MJ) LT
1- 16"x4" RED (MJ) 40' LT
40' - 12" CL305 PIPE, LT
SEE DETAIL A

(3)(163) BY CONTRACTOR FURNISH & INSTALL
STA 84+59.26
1- 16" TEE (F)
3 - 16" BFV (F) AHD, BK, RT
1- 16"x8" RED (MJ) 30' RT
30' - 16" CL305 PIPE, RT
SEE DETAIL A

(4) BY CONTRACTOR FURNISH & INSTALL
STA 84+63.00
1- 2" AIR/VACUUM VALVE ASSY, LT

(5)(164) BY CONTRACTOR FURNISH & INSTALL
STA 84+66.00
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" BLOW-OFF ASSY
SEE DETAIL A

(6)(167) BY CONTRACTOR FURNISH & INSTALL
STA 89+44.10
1- 16" 90° STL BEND (PE)
SEE DETAIL B

REFERENCE:
WATER: 8055-2-W, 8056-W, 7385-D
SEWER: 83-1-D, 987-D
STORM DRAIN: 3351-B
GAS: 2-262, 2-262A
ELECTRIC: 212-1719B
CABLE TV:
TELEPHONE: un020lac
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-B6
HGL: 469.61

RETIREMENTS:
16" - 715' CI 1959
4" - 40' CI 1909
8" - 120' AC 1958
¾" SERVICE - 3
2" SERVICE - 1

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CAUTION
14"/12"/6"/4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

FOR PROFILE SEE SHEET 18

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
10/06/2014

PRESSURE ZONE: ALVARADO 536

C-14

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE /EIGHTH AVENUE
16" WATER PIPELINE A
PLAN AND DETAILS
STA 82+00 TO STA 90+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 17 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH — DATE 10/6/2014
APPROVED: F. Michael Bafous PROJECT MANAGER
APPROVED: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-17 -D

C MODIFIED DETAIL A AND DETAIL B TO INCLUDE THRUST BLOCK CALLOUTS. REVISED NOTES 4 AND 5.

ADDENDUM C

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

ROBINSON AVENUE

EIGHTH AVENUE

CALTRANS SR-163 RIGHT OF WAY

ROBINSON AVENUE

EX PAVEMENT

EX GRADE

EX 16" CI WTR

EX 8" AC WTR
EL UNKN
4" GAS
EL UNKN

EX 18" RCP SD
IE=258.4±

EX 24" RCP SD
IE=249.9±

EX 30" RCP SD
IE=248.1±
12" HP GAS IN 18" CONDUIT
EL UNKN

EX 18" RCP SD
IE=270.4±

EX 6" CP SWR
IE=272.6±

EX 16" CI WTR

14" HP GAS
EL UNKN
6" HP GAS
EL UNKN
14" HP GAS
EL UNKN
TEL
EL UNKN
ELEC
EL UNKN

EL UNKN
CATV
EL UNKN
TEL
EL UNKN
ELEC
EL UNKN

1/2" GAS
EL UNKN

3' MIN COVER

16" PIPE CL305

EL 275.0

EL 274.7

EL 274.6

EL 272.7

EL 267.0

EL 266.5

EL 265.7

EL 264.6

EL 275.0

EL 273.2

VERTICAL BEND SUPPORT AT TOP — 1 / C-40

16" STL PIPE IN 24" STL CASING — 1 / C-41

16" STL PIPE IN 24" STL CASING — 1 / C-41

16" PIPE CL305 | 16" STL PIPE

VERTICAL BEND SUPPORT AT TOP — 1 / C-40

EX SR-163 PAVEMENT

JACKING PIT SEE NOTE 2

RECEIVING PIT SEE NOTE 3

EX 6" CP SWR
IE=241.1±

EX 12" PVC SWR
IE=235.4±

16" STL PIPE IN 36" MIN STL CASING — 1 / C-41

5 / C-41

EL 225.2

EL 230.0

VERTICAL BEND SUPPORT AT BOTTOM — 2 / C-40

VERTICAL BEND SUPPORT AT BOTTOM — 2 / C-40

STA 82+51.26

STA 83+00.31
6" FH

STA 83+67.86
16" TEE

STA 83+72.86

STA 84+09.89

STA 84+59.26
16" TEE

STA 84+63.00
2" AIR/VACUUM VALVE

STA 84+66.00
8" BLOW-OFF CONNECTION

STA 84+75.92
BEGIN 24" STL CASING

STA 85+30.31
90° BEND
TOP/BOTTOM

STA 89+00.31
90° BEND
TOP/BOTTOM

STA 89+44.10
90° HORIZ BEND

280
270
260
250
240
230

82+00
83+00
84+00
85+00
86+00
87+00
88+00
89+00
90+00

MATCH LINE STA 82+00 SEE SHEET 16

MATCH LINE STA 90+00 SEE SHEET 19

NOTES:

1. STEEL PIPE CASING SHALL BE ASTM A283 GRADE D.
2. JACKING PIT SHALL BE APPROXIMATELY 40' LONG x 15' WIDE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF ON-RAMP PAVEMENT.
3. RECEIVING PIT SHALL BE APPROXIMATELY 10' DIAMETER OR 10' SQUARE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF OFF-RAMP PAVEMENT.
4. POUR CONCRETE SLAB AT BOTTOM OF JACKING AND RECEIVING PITS.
5. ALL 16-INCH DIAMETER STEEL CARRIER PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. MINIMUM WALL THICKNESS OF 3/8" REQUIRED. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
6. VIDEOTAPE INSPECTION OF REPAIRED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
7. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.
8. SEE SHEET 44 FOR ADDITIONAL NOTES AND DETAILS.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES

SCALE
1"=40' HORIZ.
1"=4' VERT.

FOR PLAN SEE SHEET 17

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — JUDSON WARD — No. C45272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA

10/06/2014

C-15

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE /EIGHTH AVENUE

16" WATER PIPELINE A
PROFILE
STA 82+00 TO STA 90+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 18 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CM ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — 10/6/2014 DATE
DESIGNED BY F. Michael Bafoua — PROJECT MANAGER
CHECKED BY — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
2 ADDENDUM C	BC	JA	10/6/14	

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

36656-18 -D

ROBINSON AVENUE /EIGHTH AVENUE

2 ADDED THRUST BLOCK CALLOUTS. REVISED THE EXISTING SEWER AND STORM DRAIN INVERTS BASED ON NEW SURVEY INFORMATION. LOWERED THE CASING SECTION OF PIPELINE. REVISED NOTES 2 AND 3.

ADDENDUM C

UNIVERSITY AVENUE

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 30" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

MATCH LINE STA 211+00 SEE SHEET 25

MATCH LINE STA 217+00 SEE SHEET 27

EX BRIDGE

16" PIPE CL305

12" STL PIPE

16" PIPE CL305

(2) NEW 12" STL PIPE INSIDE 16" STL CASING

CALTRANS SR-163 RIGHT OF WAY

SEE NOTE 1

2" GAS IN 3" COND

EX 30" CICL WTR

EX 12" AC WTR

EX 30" CICL WTR EL UNKN

EX 24" RCP SD IE=278.5± ELEC EL UNKN 6" HP GAS EL UNKN EX 12" VC SWR IE=278.0± EX 12" AC WTR EL UNKN EX 8" AC WTR EL UNKN

STATION EQUATION STA 214+91.01 BK = STA 214+93.99 AHD

SEE NOTES 1 AND 5

PIPE SUPPORTS 2 C-43

EX PAVEMENT

EX 30" CICL WTR

3' MIN COVER

INVERT OF PIPE

16" PIPE CL305

MATCH ABUTMENT

1 C-43 PIPELINES THROUGH ABUTMENT

EL 284.0 EL 284.0 EL 284.0 EL 284.0 EL 285.3 EL 285.3 EL 284.8 EL 284.8 EL 282.8 EL 282.8 EL 282.9 EL 282.9 EL 283.2 EL 283.8

CAUTION! EXISTING BURIED TRACKS TO BE REMOVED AS NEEDED

SCALE 1"=40' HORIZ. 1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES

STA 211+54.02 16"x16"x4" FS TEE

STA 212+50.39 16"x12" TEE

STA 212+60.00 45° HORIZ BEND

STA 212+67.19 45° HORIZ BEND

STA 212+72.00 4" BLOW-OFF

STA 212+74.00 45° VERT BEND

STA 212+75.38 45° VERT BEND

STA 212+99.50 FLEX-TEND JOINT

STA 213+06.00 2" AIR/VAC VALVE

STA 213+07.66 BEGIN BRIDGE CELL

STA 214+36.66 END BRIDGE CELL

STA 214+38.50 FLEX-TEND JOINT

STA 214+65.93 45° VERT BEND

STA 214+67.38 45° VERT BEND

STA 214+70.04 4" BLOW-OFF

STA 214+81.09 90° HORIZ BEND

STA 214+91.01 BK = STA 214+93.99 AHD 16" TEE

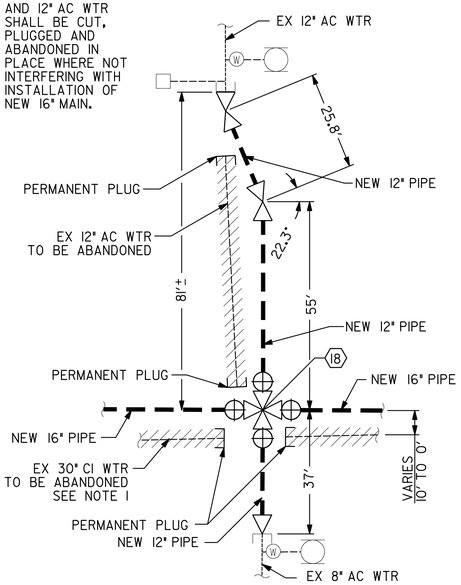
STA 215+44.51

STA 215+99.84 16"x12" CROSS

211+00 212+00 213+00 214+00 215+00 216+00 217+00

NOTE:

1. EXISTING 30" CI AND 12" AC WTR SHALL BE CUT, PLUGGED AND ABANDONED IN PLACE WHERE NOT INTERFERING WITH INSTALLATION OF NEW 16" MAIN.



DETAIL A
TENTH AVE. AT UNIVERSITY AVE.
NTS

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

REFERENCE:

WATER: C-1315-43, 15598-3-D, 20548-6-D, 3195I-19-D
SEWER: 508-12-L, 3195I-2-D
STORM DRAIN:
GAS: 2-261, 2-262, 22-283, 22-285
ELECTRIC: 212-1719B
CABLE TV:
TELEPHONE: un020laa
IMPROVEMENTS: CALTRANS C-1315
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-B5
HGL: 469.79

RETIREMENTS:

30" - 380' CICL 1909
30" - 250' CICL 1946
12" - 60' AC 1984
12" - 91' AC 1991
8" - 27' AC 1967
¾" SERVICE - 1
1" SERVICE - 1
UNKN SERVICE - 4

NOTES:

1. CONTRACTOR SHALL PROVIDE FLANGED FORCE-BALABNCED FLEX-TEND FLEXIBLE EXPANSION JOINTS, EBAA IRON MODEL 44I2520B OR APPROVED EQUAL, ON BOTH SIDES OF BRIDGE CROSSING ON EACH OF THE 12" STEEL PIPES.
2. EX 5-INCH FIBER OPTIC CONDUIT AND CABLE LOCATED IN EX UTILITY CELL THROUGH BRIDGE ABUTMENTS SHALL BE RELOCATED TO ADJACENT UTILITY CELL BY A VERIZON APPROVED SUB-CONTRACTOR PRIOR TO START OF CONSTRUCTION THROUGH PRE-NEGOTIATED WORK PACKAGE IDENTIFIED AS A BID ITEM IN THE BID SCHEDULE.
3. SEE SHEETS 45 AND 46 FOR ADDITIONAL NOTES AND DETAILS OF BRIDGE CROSSING.
4. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.
5. INSTALL PIPE PROTECTION PAD OVER PIPELINE AT BRIDGE CROSSING WHERE PIPELINE IS LESS THAN 3'-0" OF COVER. SEE DETAIL 4 ON SHEET 43. A

ESTUDILLO & CAPRON'S ADDITION MAP 650

ESTUDILLO & CAPRON'S ADDITION MAP 650

MAP 1005 LA CANYADA ADDITION

NINTH AVE

TENTH AVE

SR-163

UNIVERSITY AVE

1 C-42 (2) NEW 12" STL PIPE INSIDE 16" STL CASING IN BRIDGE CELL

HIGHLINING NOTE: CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CAUTION

EX ABANDONED TROLLEY TRACKS

STATION EQUATION STA 214+91.01 BK = STA 214+.93.99 AHD

12" PIPE

16" PIPE

ABANDON EX 12" AC WATER MAIN

ABANDON EX 30" CICL WATER MAIN

REMOVE EX 30" VALVE

CALTRANS R/W (TYP)

EX 10" SWR

3" PEHP GAS IN 8" COND

EX 30" CICL WTR

EX 6" CP SWR

EX 12" AC WTR

EX 6" HP GAS

EX 30" RCP SD

EX 12" VC SWR

EX 8" AC WTR

EX 24" RCP SD

3902 1042 940 1003 1007 939 815 819

VARIES 40' 27'± 22'±

N W E S

SCALE 1"=40'

1 (209) BY CONTRACTOR FURNISH & INSTALL
STA 211+54.02
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" FIRE SERVICE AND ASSY

2 (210) BY CONTRACTOR FURNISH & INSTALL
STA 212+50.39
1- 16" TEE (F)
1- 16" ADAPTER, LT
1- 16" BFV (F) AHD
1- 16"x12" RED (F) AHD
1- 16" BFV (F, MJ) BK
8'- 16" STL PIPE, LT C

3 (211) BY CONTRACTOR FURNISH & INSTALL
STA 212+60.00
1- 12" 45° STL BEND (PE)

4 (212) BY CONTRACTOR FURNISH & INSTALL
STA 212+67.19
1- 12" 45° STL BEND (PE)

5 (213) BY CONTRACTOR FURNISH & INSTALL
STA 212+72.00 A
1- 12"x12"x4" STL TEE (PE, PE, F) RT
1- 4" BLOW-OFF ASSY

6 BY CONTRACTOR FURNISH & INSTALL
STA 213+06.00 A
1- 2" AIR/VACUUM VALVE ASSY, RT

7 BY CONTRACTOR FURNISH & INSTALL
STA 212+99.50
1- 12" FLEX-TEND JOINT
1- 12" FLEX-TEND JOINT (3.0' LT)
SEE DETAIL 1, SHT 45 C

8 (214) BY CONTRACTOR FURNISH & INSTALL
STA 214+70.04
1- 12"x12"x4" STL TEE (PE, PE, F) RT
1- 4" BLOW-OFF ASSY A

9 (215) BY CONTRACTOR FURNISH & INSTALL
STA 214+81.09
1- 12" 90° STL BEND (PE)

10 (216) BY CONTRACTOR FURNISH & INSTALL
STATION EQUATION
STA 214+91.01 BK = STA 214+93.99 AHD
1- 16" TEE (F)
2 - 16" BFV (F) BK, LT
1- 16" BFV (F, MJ) AHD
2 - 16"x12" RED (F) BK, LT

11 BY CONTRACTOR FURNISH & INSTALL
STA 212+50.38 (8.08 LT) A
1- 16" TEE (F)
1- 16" ADAPTER, RT
2 - 16" BFV (F) AHD, LT
1- 16"x12" RED (F, MJ) LT
1- 16"x12" RED (F) AHD
52'- 12" CL305 PIPE, LT C

12 BY CONTRACTOR FURNISH & INSTALL
STA 212+70.00 (3.0' LT) C
1- 12"x12"x4" STL TEE (PE, PE, F) LT
1- 4" BLOW-OFF ASSY C

13 BY CONTRACTOR FURNISH & INSTALL
STA 213+04.00 (3.0' LT) C
1- 2" AIR/VACUUM VALVE ASSY, RT

14 BY CONTRACTOR FURNISH & INSTALL
STA 214+64.17 (3.0' LT) C
1- 12" 45° STL BEND (PE)

15 BY CONTRACTOR FURNISH & INSTALL
STA 214+38.50
1- 12" FLEX-TEND JOINT
1- 12" FLEX-TEND JOINT (3.0' LT)
SEE DETAIL 1, SHT 45 C

16 BY CONTRACTOR FURNISH & INSTALL
STA 214+69.20 (4.3' LT)
1- 12"x12"x4" STL TEE (PE, PE, F) LT
1- 4" BLOW-OFF ASSY A

17 BY CONTRACTOR FURNISH & INSTALL
STA 214+71.09 (9.79' LT)
1- 12" 45° STL BEND (PE)

18 (217) BY CONTRACTOR FURNISH & INSTALL
STA 215+99.84
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
1- 12"x8" RED (MJ) 37' RT
2 - 12" 22 1/2° BEND (MJ)
55' LT & 79' LT
85' - 12" CL305 PIPE, LT
37' - 12" CL305 PIPE, RT
SEE DETAIL A

PRESSURE ZONE: ALVARADO 536

C-23

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

CAUTION

3" PEHP GAS IN 8" CONDUIT & 6" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

UNIVERSITY HTS AMENDED

Brown AND Caldwell

ROBERT JUDSON WARREN No. C45272 EXP. 06-31-16 REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA

10/06/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 211+00 TO STA 217+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 26 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CIM ENGINEER IRAJ ASCHARZADEH 10/6/2014 DATE
SUBMITTED BY F. Michael Bagoua PROJECT MANAGER
APPROVED BY Francisco Brotha PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

CCS27 COORDINATE 210-1719
CCS83 COORDINATE 1850444-6280407

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

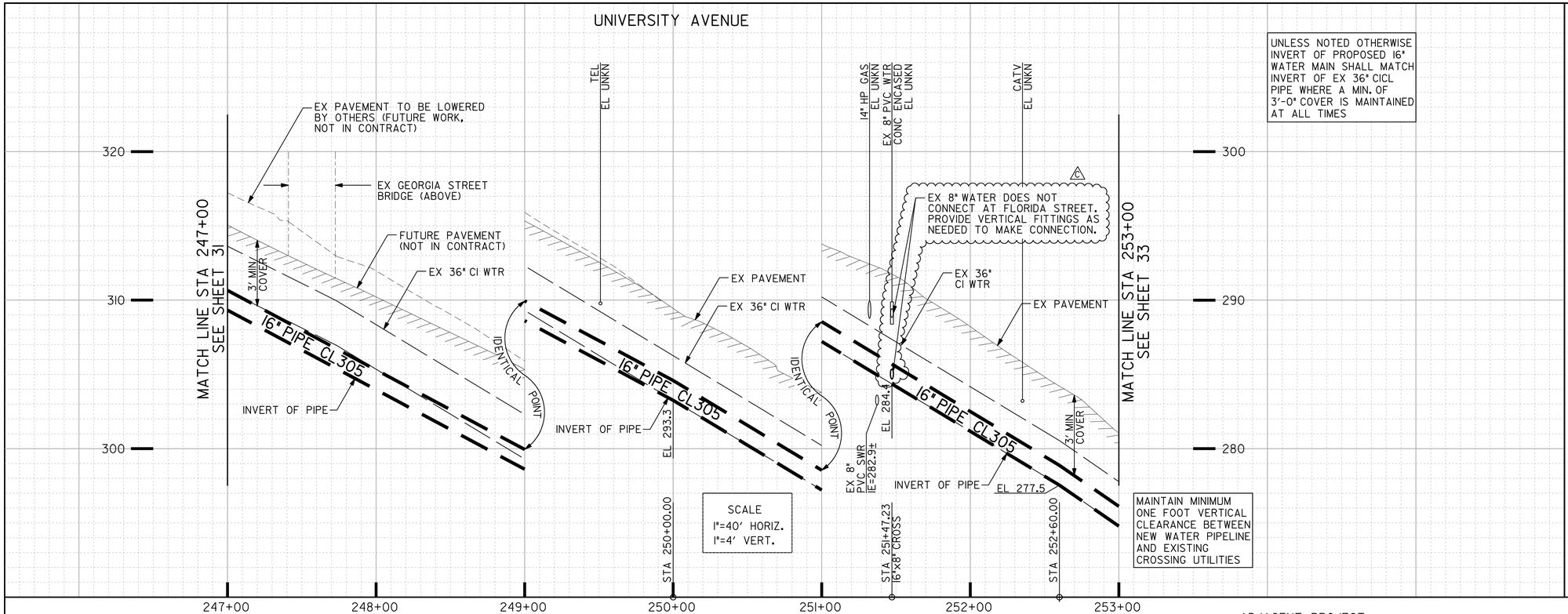
36656-26-D

C REVISED CALLOUTS 2, 5, 7, 8, 11, 12, 13, 15, AND 16. ADDED NOTE 5. REVISED PLAN AND PROFILE ON BOTH SIDES OF BRIDGE TO ACCOMODATE NEW FLEX-TENDS.

ADDENDUM C

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C23.dgn
27-OCT-2014 13:32 therencia

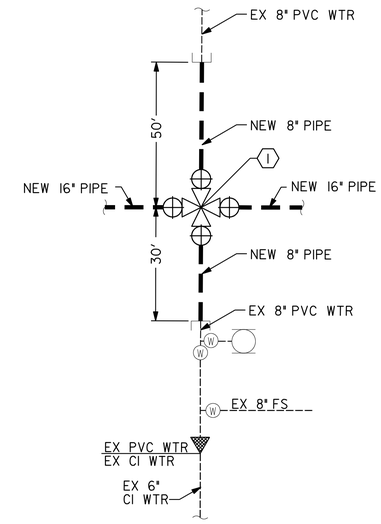
UNIVERSITY AVENUE



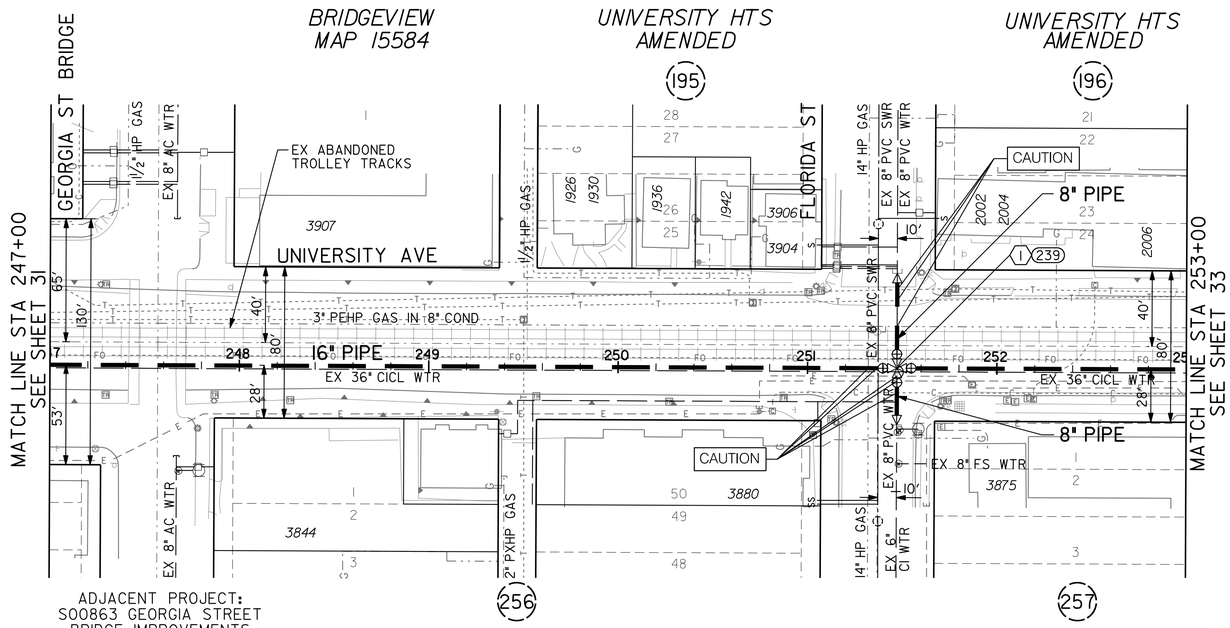
UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
FLORIDA ST. AT UNIVERSITY AVE.
NTS



ADJACENT PROJECT:
S00863 GEORGIA STREET
BRIDGE IMPROVEMENTS

UNIVERSITY HTS AMENDED

UNIVERSITY HTS AMENDED

ADJACENT PROJECT:
S00915 UNIVERSITY
AVENUE MOBILITY

I 239
BY CONTRACTOR
FURNISH & INSTALL

STA 251+47.23
1 - 16"x8" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 8" GV (F, MJ) LT, RT
50' - 8" CL305 PIPE, LT
30' - 8" CL305 PIPE, RT
SEE DETAIL A

REFERENCE:
WATER: 14432-2-D, 15598-3-D, 26575-13-D
SEWER: 12799-2-D, 12799-3-D, 26575-29-D
STORM DRAIN:
GAS: 11-332, 11-333, 11-394, 11-395, 11-396
ELECTRIC: 212-1725A
CABLE TV:
TELEPHONE: un040lbb, un060laa
IMPROVEMENTS:
100' SCALE/FIELD BOOK: HI9S
THOMAS BROS.: 1269-C5
HGL: 473.47

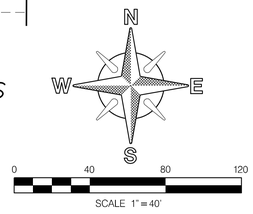
RETIREMENTS:
36" - 600' CICL 1909
8" - 80' PVC 1995

CAUTION
3" PEHP GAS IN 8" CONDUIT & 14" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WARD
No. C43272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
10/06/2014

PRESSURE ZONE: ALVARADO 536

C-29

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 247+00 TO STA 253+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 32 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH (PRINT NAME) — DATE 10/15/2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
6 ADDENDUM C	BC	JA	10/6/14	

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS	S-11021
SEWER WBS	N/A
DEPARTMENT DIRECTOR	F. Michael Bofenkamp, PROJECT MANAGER
CHECKED	PROJECT ENGINEER
	210-1725 CCS27 COORDINATE
	1850444-6286407 CCS83 COORDINATE
	36656-32-D

6 ADDED NOTE IN PROFILE TO CLARIFY EXISTING CONNECTION AT FLORIDA STREET.

ADDENDUM C

UNIVERSITY AVENUE

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

MATCH LINE STA 258+50 SEE SHEET 33

MATCH LINE STA 265+00 SEE SHEET 35

EX 8" AC WTR EL UNKN
EX 8" CI WTR EL UNKN
CATV EL UNKN
ELEC EL UNKN
TEL EL UNKN
1" GAS EL UNKN
½" GAS EL UNKN
½" COND EL UNKN

EX PAVEMENT
EX 36" CI WTR
3' MIN COVER
IDENTICAL POINT
16" PIPE CL305
INVERT OF PIPE
EL 297.4

STA 258+00.00 EL 277.2
EL 279.8
STA 259+05.40 16"x12" TEE
EL 281.8
STA 259+48.92 16"x12" TEE
STA 261+40.01 16"x16"x8" FH TEE
STA 262+30.00 2" AIR/VACUUM VALVE
STA 262+84.08 16"x12" CROSS

SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES

300 290 280 320 310 300

259+00 260+00 261+00 262+00 263+00 264+00 265+00

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

UNIVERSITY HTS AMENDED (198)

UNIVERSITY HTS AMENDED (199)

EX 8" PVC WTR TO BE REMOVED

MISSISSIPPI ST

LOUISIANA ST

UNIVERSITY AVE

EX 8" PVC WTR
EX 15" PVC SWR
EX 8" PVC SWR
EX 8" AC WTR
EX 36" CICL WTR
½" HP GAS
2" HP GAS
3" PEHP GAS IN 8" COND
12" PIPE
16" PIPE
CAUTION
EX ABANDONED TROLLEY TRACKS
EX WATER VALVE VAULT TO BE REMOVED
REMOVE EX ABANDONED WATER METER
KILL

ADJACENT PROJECT: S00915 UNIVERSITY AVENUE MOBILITY

CONTRACTOR'S NOTE:
EXISTING ELECTRICAL FACILITIES IN CLOSE PROXIMITY TO 16" PIPE AND SHALL BE PROTECTED IN PLACE. CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION AND CONSTRUCTION OPERRATIONS. SDGE STANDBY REQUIRED

CAUTION
3" PEHP GAS IN 8" CONDUIT
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

(3) MAP 65 PAULY'S ADDITION

(1)(244) BY CONTRACTOR FURNISH & INSTALL
STA 259+05.40
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
1- 12"x8" RED (MJ) 55' LT
55' - 12" CL305 PIPE, LT
SEE DETAIL A

(2)(245) BY CONTRACTOR FURNISH & INSTALL
STA 259+48.92
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) RT
1- 12"x8" RED (MJ) 45' RT
45' - 12" CL305 PIPE, RT
SEE DETAIL A

(2) MAP 65 PAULY'S ADDITION

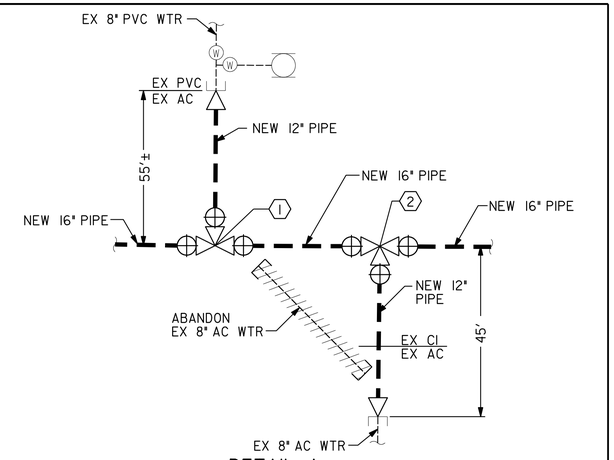
N W E S
0 40 80 120
SCALE 1"=40'

(3)(246) BY CONTRACTOR FURNISH & INSTALL
STA 261+40.01
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

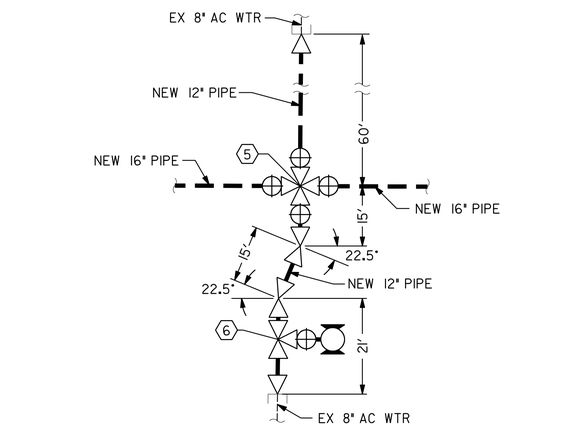
(4) BY CONTRACTOR FURNISH & INSTALL
STA 262+30.00
1- 2" AIR/VACUUM VALVE ASSY, RT

(5)(247) BY CONTRACTOR FURNISH & INSTALL
STA 262+84.08
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12" 22½° BEND (MJ) 15' & 29.7' RT
2 - 12"x8" RED (MJ) 60' LT & 50' RT
51' - 12" CL305 PIPE, RT
SEE DETAIL B

(6) BY CONTRACTOR FURNISH & INSTALL
STA 262+84.08 (35.29' RT)
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)



DETAIL A
MISSISSIPPI ST. AT UNIVERSITY AVE.
NTS



DETAIL B
LOUISIANA ST. AT UNIVERSITY AVE.
NTS

REFERENCE:
WATER: 13321-7-D, 14432-9-D, 14432-10-D, 15598-2-D, 26328-12-D, 26328-18-D, 26328-19-D
SEWER: 13885-9-D, 14561-2-D, 14561-3-D, 17484-7-D
STORM DRAIN: 5553-L
GAS: 11-338, 11-390, 11-391
ELECTRIC: 212-1725B
CABLE TV:
TELEPHONE: un060laa, un060lbb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: 1195
THOMAS BROS.: 1269-D5
HGL: 476.71

PRESSURE ZONE: ALVARADO 536

RETIREMENTS:
36" - 650' CI 1909
FH (6-PORT) - 1
8" - 120' AC 1959
8" - 35' CI 1914
8" - 60' AC 1972
8" - 51' AC 1972
8" - 650' PVC 1993
¾" SERVICE - 2
UNKN SERVICE - 5

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON WARD No. C43272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
10/06/2014

C-31

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 258+50 TO STA 265+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 34 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH — DATE 10/15/2014
PRINT NAME

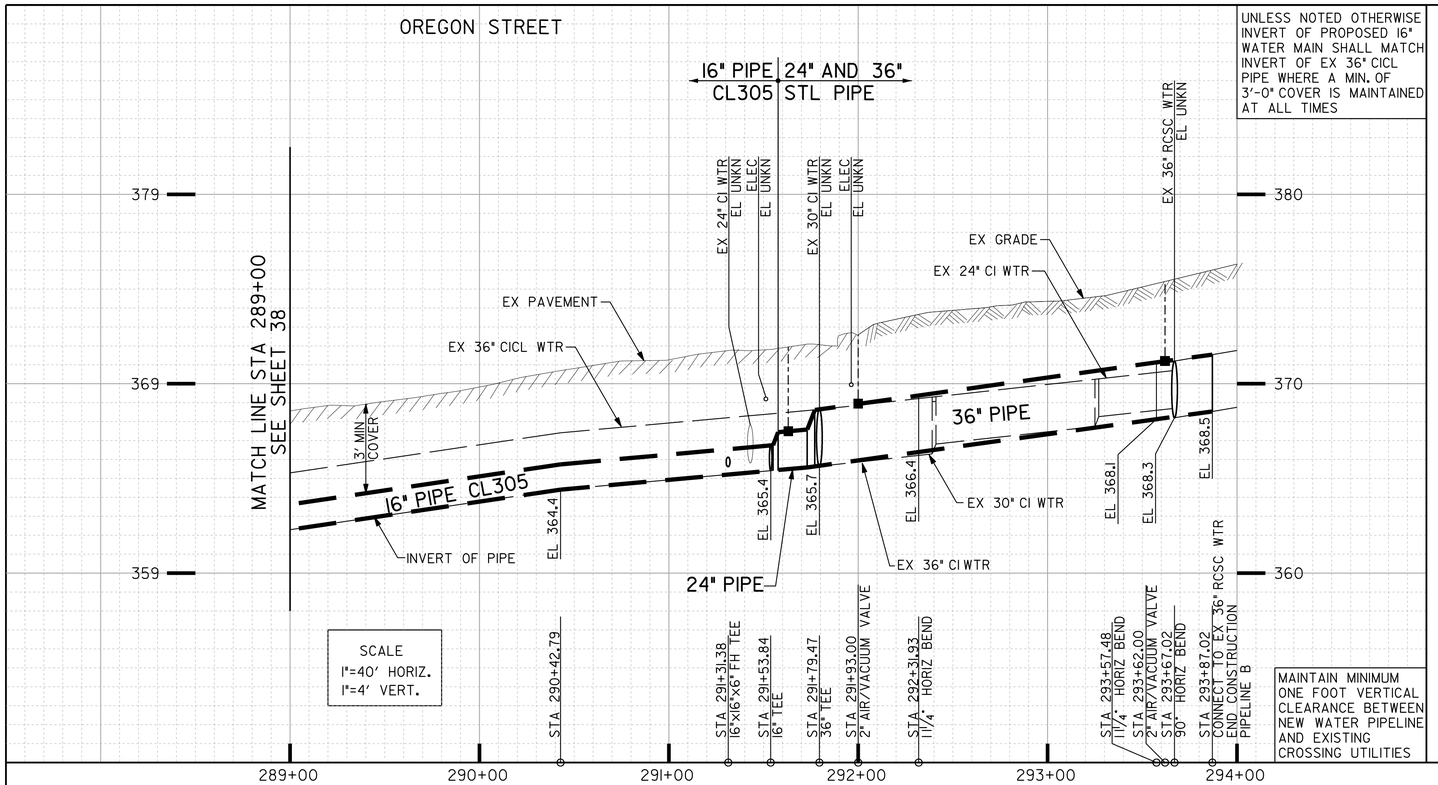
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
A ADDENDUM C	BC	JA	10/6/14	

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafous PROJECT MANAGER
CHECKED BY Thomas Bailey PROJECT ENGINEER
210-1725 CCS27 COORDINATE
1850444-6286407 CCS83 COORDINATE
36656-34-D

A ADD CONTRACTOR'S NOTE TO PROTECT EXISTING ELECTRICAL FACILITIES

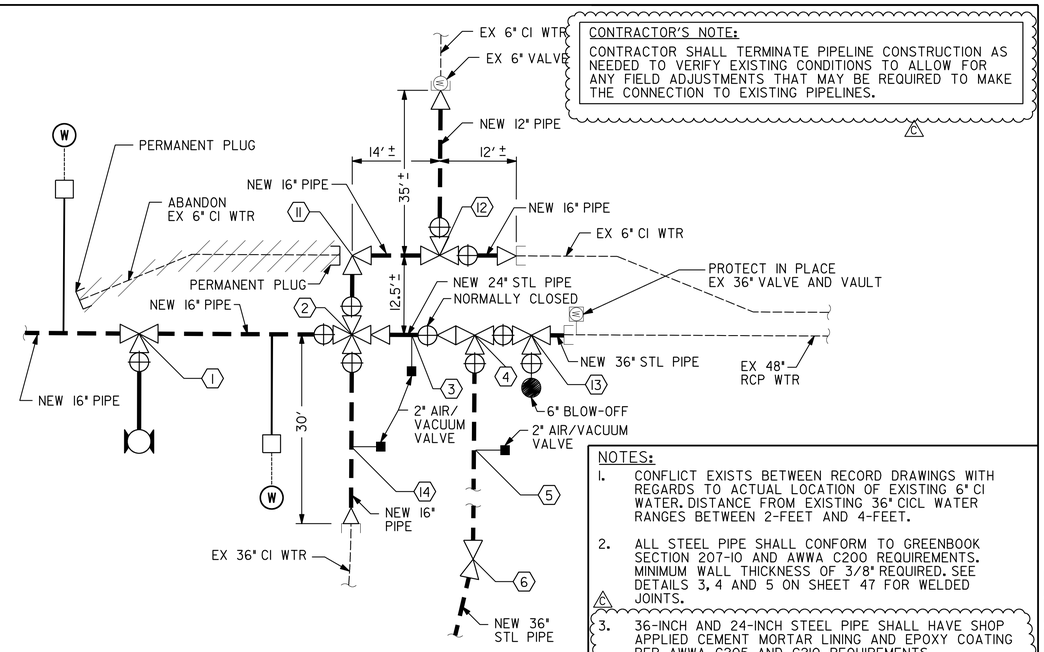
ADDENDUM C



UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



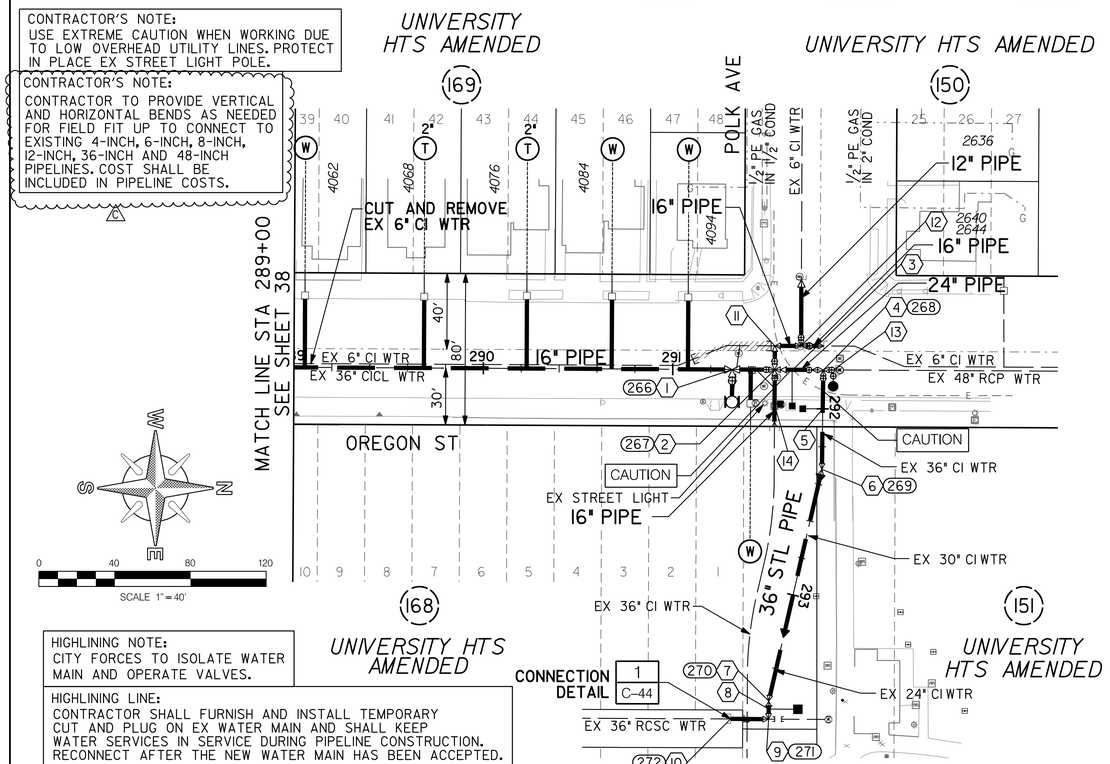
DETAIL A
POLK AVE. AT OREGON ST.
NTS

CONTRACTOR'S NOTE:
CONTRACTOR SHALL TERMINATE PIPELINE CONSTRUCTION AS NEEDED TO VERIFY EXISTING CONDITIONS TO ALLOW FOR ANY FIELD ADJUSTMENTS THAT MAY BE REQUIRED TO MAKE THE CONNECTION TO EXISTING PIPELINES.

NOTES:
1. CONFLICT EXISTS BETWEEN RECORD DRAWINGS WITH REGARDS TO ACTUAL LOCATION OF EXISTING 6" CI WATER. DISTANCE FROM EXISTING 36" CICL WATER RANGES BETWEEN 2-FEET AND 4-FEET.
2. ALL STEEL PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. MINIMUM WALL THICKNESS OF 3/8" REQUIRED. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
3. 36-INCH AND 24-INCH STEEL PIPE SHALL HAVE SHOP APPLIED CEMENT MORTAR LINING AND EPOXY COATING PER AWWA C205 AND C210 REQUIREMENTS. SEE DETAILS ON SHEET 47 FOR WELDED JOINT DETAILS.
4. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
5. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES. PROTECT IN PLACE EX STREET LIGHT POLE.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH, 12-INCH, 36-INCH AND 48-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.



HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

(1)(266)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+31.38
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)

(2)(267)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+53.84
1 - 16" CROSS (F)
3 - 16" BFV (F, MJ) BK, RT, LT
1 - 16"x24" RED (F) AHD
1 - 16x36" RED (MJ) 30' RT
30' - 16" CL305 PIPE, RT
SEE DETAIL A

(3)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+63.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

(4)(268)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+79.47
1 - 36" STL TEE (F)
1 - 24" BFV (F) BK NORMALLY CLOSED
1 - 24"x36" RED (F) BK
2 - 36" BFV (F) LT, AHD
12' - 36" STL PIPE, LT
SEE DETAIL A

(5)
BY CONTRACTOR
FURNISH & INSTALL
STA 292+00.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

(6)(269)
BY CONTRACTOR
FURNISH & INSTALL
STA 292+31.93
1 - 36" 11 1/4° STL BEND (PE)

(7)(270)
BY CONTRACTOR
FURNISH & INSTALL
STA 293+57.48
1 - 36" 11 1/4° STL BEND (PE)

(8)
BY CONTRACTOR
FURNISH & INSTALL
STA 293+62.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

(9)(271)
BY CONTRACTOR
FURNISH & INSTALL
STA 293+67.02
1 - 36" 90° STL BEND (PE)

(10)(272)
BY CONTRACTOR
FURNISH & INSTALL
STA 293+87.02
1 - 36" STL CONNECTION TO EX 36" RCCP
SEE DETAIL 1, DWG C-44
(END CONSTRUCTION OF LINE B)

(11)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+53.84, 12.5' LT
1 - 16" 90° BEND (MJ)
12.5' - 16" CL305 PIPE, LT

(12)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+67.70, 12.5' LT
1 - 16"x16"x12" TEE (MJ, F, F)
1 - 16" BFV (F, MJ) AHD
1 - 16"x6" RED (MJ) 12' AHD
1 - 12" GV (F, MJ) LT
1 - 12"x6" RED (MJ) 35' LT
12' - 16" CL305 PIPE, AHD
35' - 12" CL305 PIPE, LT
SEE DETAIL A

(13)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+79.47, 6' LT
1 - 36"x36"x6" TEE (MJ, MJ, F) AHD
1 - 6" BLOW-OFF ASSY

(14)
BY CONTRACTOR
FURNISH & INSTALL
STA 291+53.84, 18' RT
1 - 2" AIR/VACUUM VALVE ASSY, AHD

REFERENCE:
WATER: 5331-01-W, 5615-W, 5532-W, 6135-L, 6907-W, 7307-W, 12120-2-D, 15598-2-D, 16842-5-D
SEWER:
STORM DRAIN:
GAS: 11-424
ELECTRIC: 214-1728A
CABLE TV:
TELEPHONE: un0802dd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: HI8S
THOMAS BROS.: 1269-D5
HGL: 487.81

RETIREMENTS:
48" - 5' RCP 1953
36" - 280' CI 1909
36" - 34' CI 1955
36" - 54' CI 1909
30" - 84' CI 1909
24" - 42' CI 1909
36" - 5' RCSC 1941
6" - 280' CI 1978
6" - 35' CI 1978
FH (6-PORT) - 1
3/4" SERVICE - 1
2" SERVICE - 2
UNKN SERVICE - 3

PRESSURE ZONE: ALVARADO 536

C-36

UNIVERSITY AVE PIPELINE REPLACEMENT

OREGON STREET
16" WATER PIPELINE B
PLAN AND PROFILE
STA 289+00 TO STA 293+87.02

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 39 OF 86 SHEETS

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 10/6/2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	IA	10/6/14	

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bofonua PROJECT MANAGER
CHECKED BY Thomas Bolin PROJECT ENGINEER
214-1725 CCS27 COORDINATE
1854444-6286407 CCS83 COORDINATE
36656-39-D

REGISTERED PROFESSIONAL ENGINEER JUDSON WARD No. 43272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
10/06/2014

Brown AND Caldwell

C MODIFIED CONTRACTOR'S NOTE TO INCLUDE ADDITIONAL SIZES. REVISED NOTE 3. ADDED CONTRACTOR'S NOTE ON DETAIL A.

ADDENDUM C

OREGON STREET

HORIZONTAL ALIGNMENT REVIEW REPORT
REPORT CREATED: 5/16/2014

PROJECT: UNIVERSITY PIPELINE
INPUT GRID FACTOR: 1.00

****

ALIGNMENT NAME: PIPELINE B

FOR CONTINUATION SEE SHEET 42

Element: Linear
STA (248)A 266+07.17 1853246.2520 6288341.3821
STA (249)A 266+64.71 1853246.0026 6288398.9197
Tangential Direction: S 89° 45'06" E
Tangential Length: 57.54

Element: Linear
STA (249)A 266+64.71 1853246.0026 6288398.9197
STA (250)A 268+25.01 1853245.3080 6288559.2133
Tangential Direction: S 89° 45'06" E
Tangential Length: 160.30

Element: Linear
STA (250)A 268+25.01 1853245.3080 6288559.2133
STA (251)A 269+40.20 1853244.8089 6288674.4039
Tangential Direction: S 89° 45'06" E
Tangential Length: 115.19

Element: Linear
STA (251)A 269+40.20 1853244.8089 6288674.4039
STA (252)A 270+00.00 1853244.5498 6288734.2059
Tangential Direction: S 89° 45'06" E
Tangential Length: 59.80

Element: Linear
STA (252)A 270+00.00 1853244.5498 6288734.2059
STA (253)A 270+41.87 1853244.3683 6288776.0723
Tangential Direction: S 89° 45'06" E
Tangential Length: 41.87

Element: Linear
STA (253)A 270+41.87 1853244.3683 6288776.0723
STA (254)A 272+79.12 1853243.3403 6289013.3236
Tangential Direction: S 89° 45'06" E
Tangential Length: 237.25

Element: Linear
STA (254)A 272+79.12 1853243.3403 6289013.3236
STA (255)A 274+21.47 1853242.7234 6289155.6752
Tangential Direction: S 89° 45'06" E
Tangential Length: 142.35

Element: Linear
STA (255)A 274+21.47 1853242.7234 6289155.6752
STA (256)A 276+11.06 1853241.9019 6289345.2580
Tangential Direction: S 89° 45'06" E
Tangential Length: 189.58

Element: Linear
STA (256)A 276+11.06 1853241.9019 6289345.2580
STA (257)A 277+74.00 1853241.1958 6289508.1982
Tangential Direction: S 89° 45'06" E
Tangential Length: 162.94

Element: Linear
STA (257)A 277+74.00 1853241.1958 6289508.1982
STA (258)A 278+01.38 1853241.0772 6289535.5815
Tangential Direction: S 89° 45'06" E
Tangential Length: 27.38

Element: Linear
STA (258)A 278+01.38 1853241.0772 6289535.5815
STA (259)A 278+10.05 1853249.7405 6289535.6598
Tangential Direction: N 0° 31'04" E
Tangential Length: 8.66

Element: Linear
STA (259)A 278+10.05 1853249.7405 6289535.6598
STA (260)A 279+65.07 1853404.7594 6289537.0605
Tangential Direction: N 0° 31'04" E
Tangential Length: 155.03

Element: Linear
STA (260)A 279+65.07 1853404.7594 6289537.0605
STA (261)A 282+00.02 1853639.6934 6289539.1833
Tangential Direction: N 0° 31'04" E
Tangential Length: 234.94

Element: Linear
STA (261)A 282+00.02 1853639.6934 6289539.1833
STA (262)A 284+55.70 1853895.3685 6289541.4936
Tangential Direction: N 0° 31'04" E
Tangential Length: 255.69

Element: Linear
STA (262)A 284+55.70 1853895.3685 6289541.4936
STA (263)A 284+87.79 1853927.4605 6289541.7835
Tangential Direction: N 0° 31'04" E
Tangential Length: 32.09

Element: Linear
STA (263)A 284+87.79 1853927.4605 6289541.7835
STA (264)A 284+93.05 1853932.7127 6289541.8095
Tangential Direction: N 0° 16'57" E
Tangential Length: 5.25

Element: Linear
STA (264)A 284+93.05 1853932.7127 6289541.8095
STA (265)A 287+95.14 1854234.8021 6289543.2997
Tangential Direction: N 0° 16'57" E
Tangential Length: 302.09

Element: Linear
STA (265)A 287+95.14 1854234.8021 6289543.2997
STA (266)A 291+31.38 1854571.0345 6289544.9583
Tangential Direction: N 0° 16'57" E
Tangential Length: 336.24

Element: Linear
STA (266)A 291+31.38 1854571.0345 6289544.9583
STA (267)A 291+53.84 1854593.4994 6289545.0691
Tangential Direction: N 0° 16'57" E
Tangential Length: 22.47

Element: Linear
STA (267)A 291+53.84 1854593.4994 6289545.0691
STA (268)A 291+79.47 1854619.1269 6289545.1955
Tangential Direction: N 0° 16'57" E
Tangential Length: 25.63

Element: Linear
STA (268)A 291+79.47 1854619.1269 6289545.1955
STA (269)A 292+31.93 1854618.4114 6289597.6540
Tangential Direction: S 89° 13'07" E
Tangential Length: 52.46

Element: Linear
STA (269)A 292+31.93 1854618.4114 6289597.6540
STA (270)A 293+57.48 1854590.3259 6289720.0163
Tangential Direction: S 77° 04'23" E
Tangential Length: 125.54

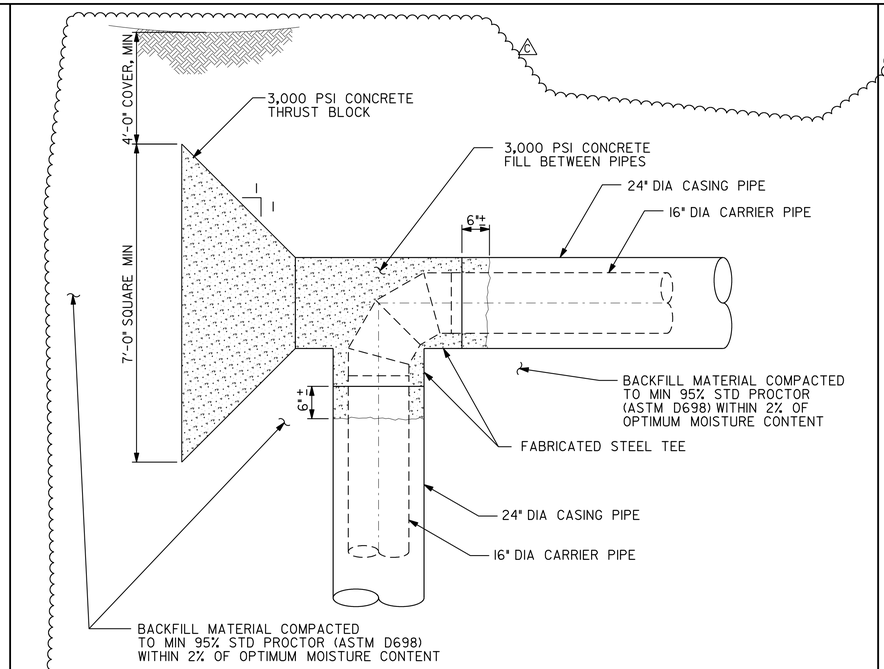
Element: Linear
STA (270)A 293+57.48 1854590.3259 6289720.0163
STA (271)A 293+67.02 1854590.2803 6289729.5555
Tangential Direction: S 89° 43'34" E
Tangential Length: 9.54

Element: Linear
STA (271)A 293+67.02 1854590.2803 6289729.5555
STA (272)A 293+87.02 1854570.2811 6289729.3713
Tangential Direction: S 0° 31'40" W
Tangential Length: 20.00

****

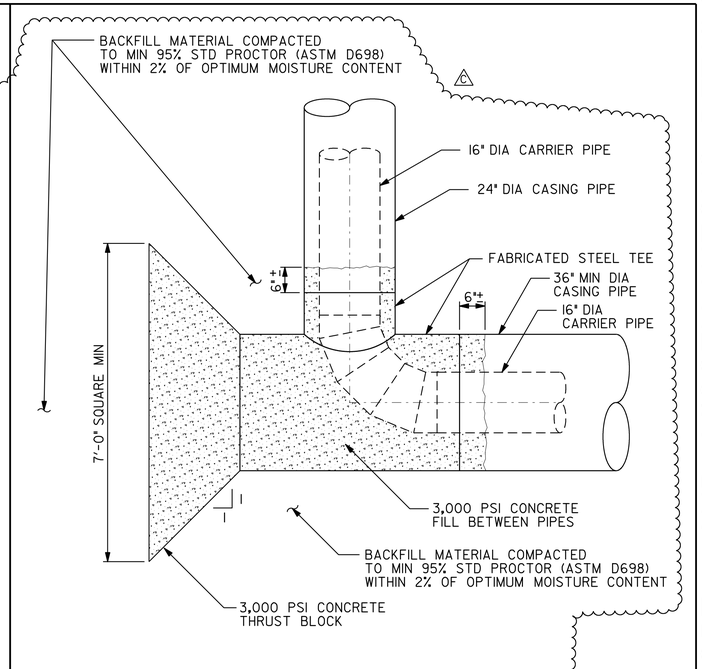
ALIGNMENT NAME: PIPELINE C

Element: Linear
STA (178) 0+00.00 1852543.1245 6285044.5433
STA (300) 2+10.00 1852333.1247 6285043.5023
Tangential Direction: S 0° 17'02" W
Tangential Length: 210.00



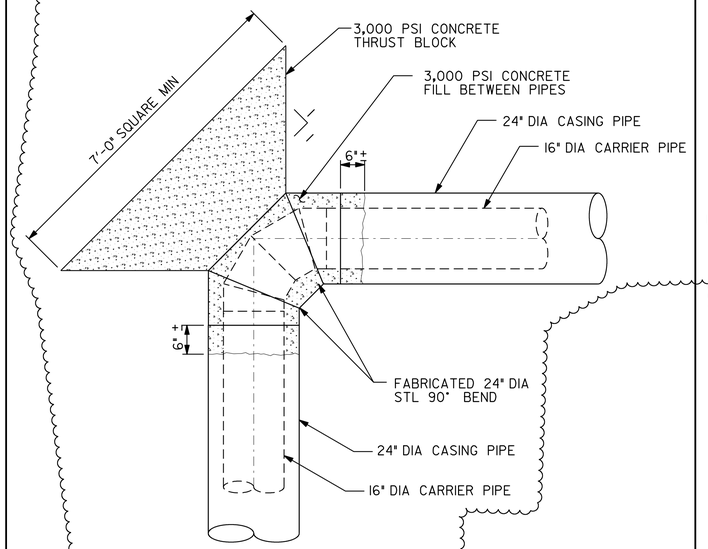
VERTICAL BEND SUPPORT AT TOP

DETAIL	1
NO SCALE	C-14
	C-15



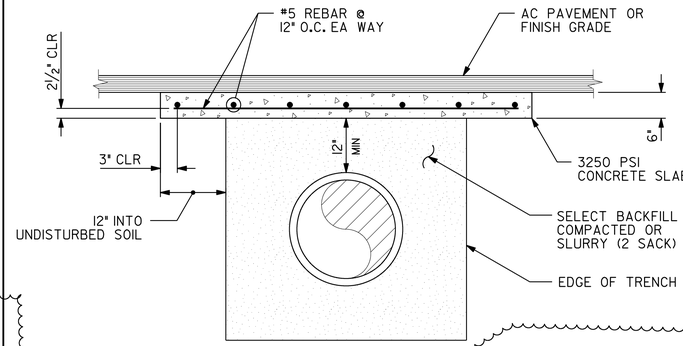
VERTICAL BEND SUPPORT AT BOTTOM

DETAIL	2
NO SCALE	C-14
	C-15



HORIZONTAL BEND SUPPORT

DETAIL	3
NO SCALE	C-14
	C-15



PROTECTION PAD SHALL BE USED IN AREAS WHERE THE PIPE HAS LESS THAN 3'-0" OF COVER

PIPE PROTECTION PAD

DETAIL	4
NO SCALE	VAR

C-40

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

HORIZONTAL ALIGNMENT
COORDINATE INDEX REPORT 3
AND MISCELLANEOUS DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 43 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH (PRINT NAME) — DATE 10/6/2014
DESIGNED BY: F. Michael Bafoua — PROJECT MANAGER
CITY ENGINEER — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

VARIES — CCS27 COORDINATE
VARIES — CCS83 COORDINATE
36656-43-D

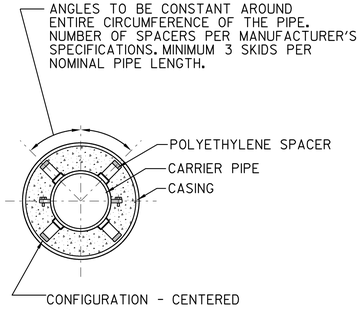
Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WARNER — NO. C45272 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA
10/06/2014

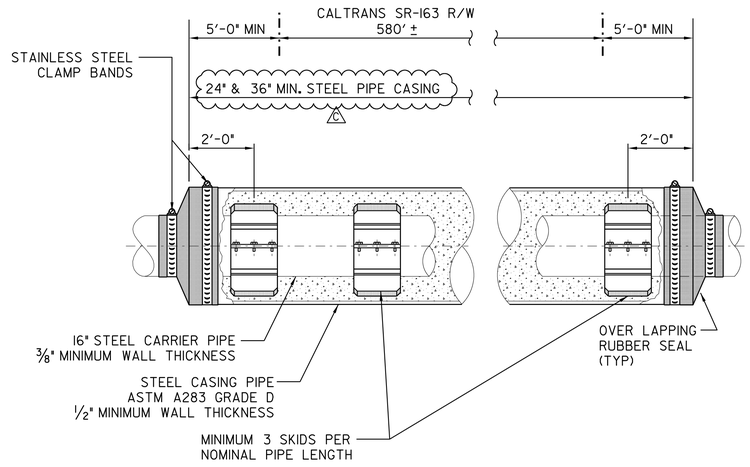
C REPLACE DETAIL 1.
ADD DETAILS 2, 3, AND 4

ADDENDUM C

HORIZONTAL ALIGNMENT COORDINATE INDEX REPORT 3 AND MISCELLANEOUS DETAILS



CROSS-SECTION

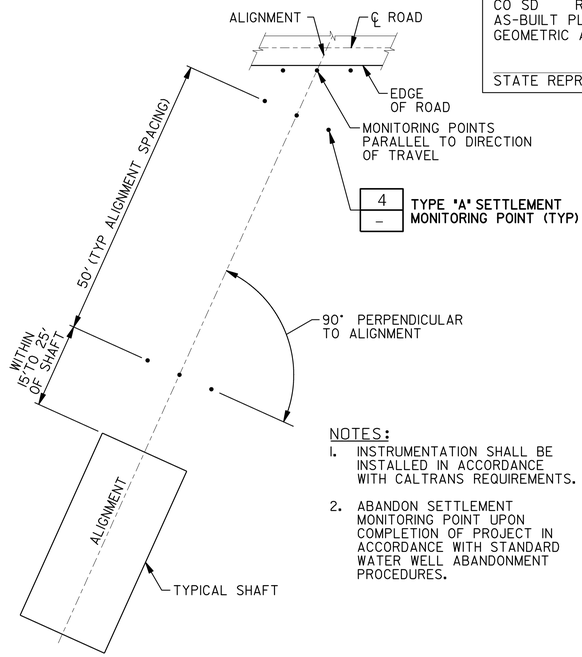


NOTES

1. ALL 16" DIAMETER STEEL CARRIER PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
2. STEEL PIPE CASING SHALL BE ASTM A283 GRADE D.
3. INTERIOR OF CASING PIPE SHALL BE GROUND SMOOTH AND LUBRICATED FOR SPACER INSTALLATION.
4. CASING PIPE TO BE SUPPLIED IN NOMINAL CONTINUOUS 20-FOOT LENGTHS. JOINTS TO BE SINGLE WELDED, FULL CIRCUMFERENCE. DEVIATIONS TO BE APPROVED BY OWNER'S REPRESENTATIVE.
5. 16" DIAMETER STEEL PIPE SHALL HAVE SHOP APPLIED CEMENT MORTAR LINING AND EPOXY COATING PER AWWA C205 AND C210 REQUIREMENTS.
6. CASING SPACER SHALL BE NON-METALLIC HIGH-DENSITY POLYETHYLENE MEETING ISO 9002 STANDARDS.
7. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
8. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
9. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

CASING ASSEMBLY DETAIL

DETAIL	1
SCALE: 1" = 1'-0"	C-14
	C-15



NOTES:

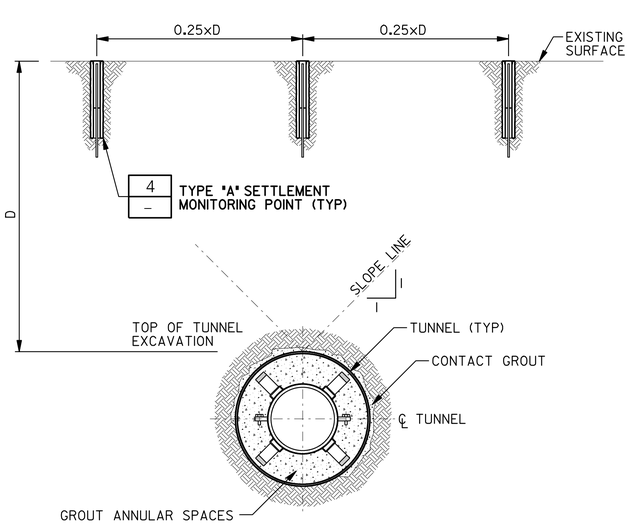
1. INSTRUMENTATION SHALL BE INSTALLED IN ACCORDANCE WITH CALTRANS REQUIREMENTS.
2. ABANDON SETTLEMENT MONITORING POINT UPON COMPLETION OF PROJECT IN ACCORDANCE WITH STANDARD WATER WELL ABANDONMENT PROCEDURES.

TYPE "A" SURFACE MONITORING POINT PLAN

DETAIL	2
	–

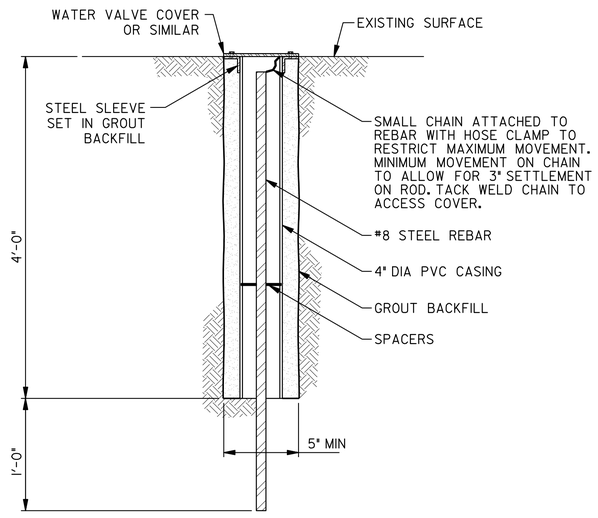
PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



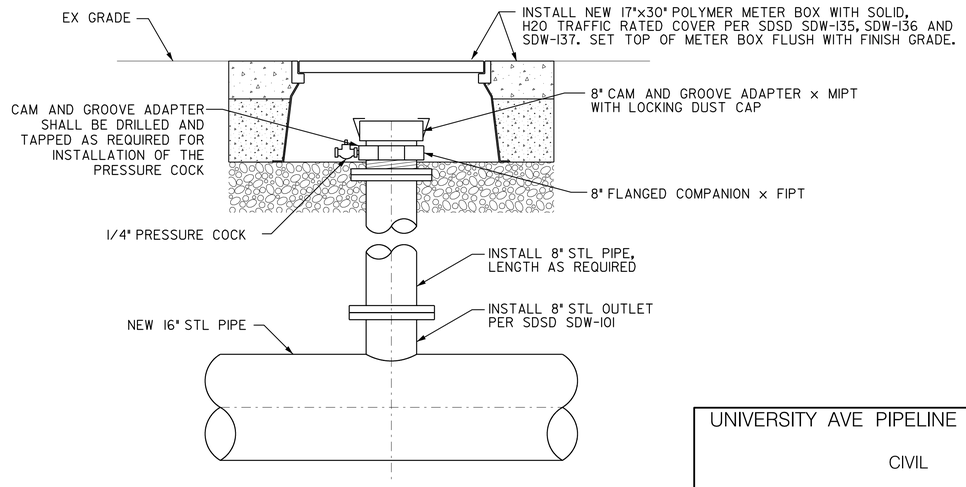
TYPE "A" SURFACE MONITORING PLACEMENT

DETAIL	2
SCALE: NONE	–



TYPE "A" SETTLEMENT MONITORING POINT

DETAIL	4
SCALE: NONE	–



BLOW-OFF PUMPING CONNECTION

DETAIL	5
SCALE: NONE	C-14
	C-15

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON ALEXANDER WHITE No. C45272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

C-41

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

MISCELLANEOUS DETAILS 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 44 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) 10/6/2014 DATE

SUBMITTED BY: F. Michael Bafous PROJECT MANAGER

PREPARED BY: Francisco Bonilla PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

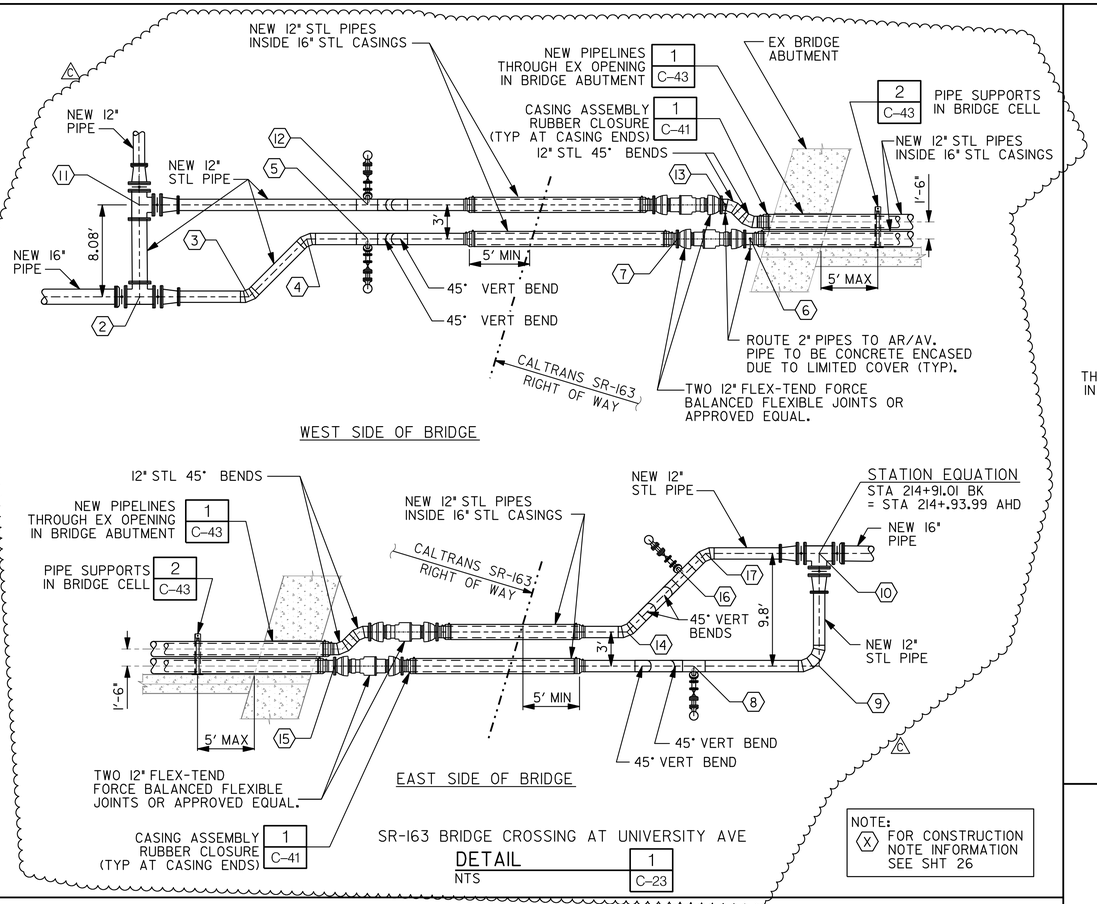
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

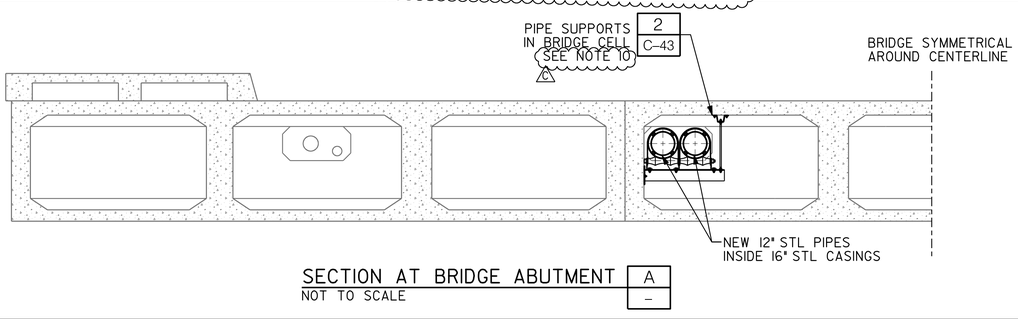
36656-44-D

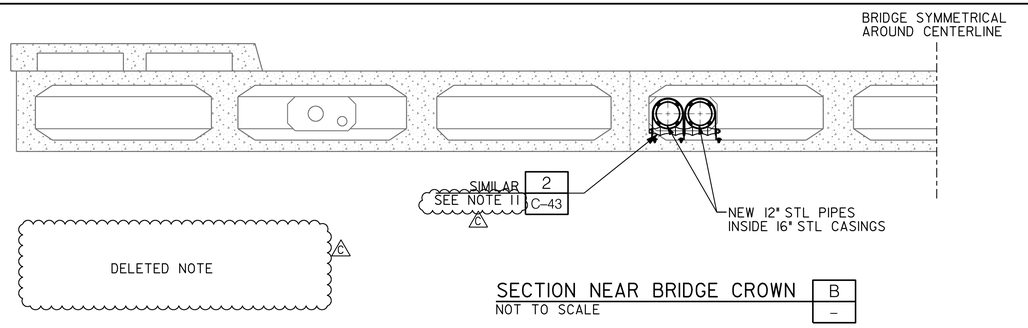
C REVISE CASING SIZE IN DETAIL 1

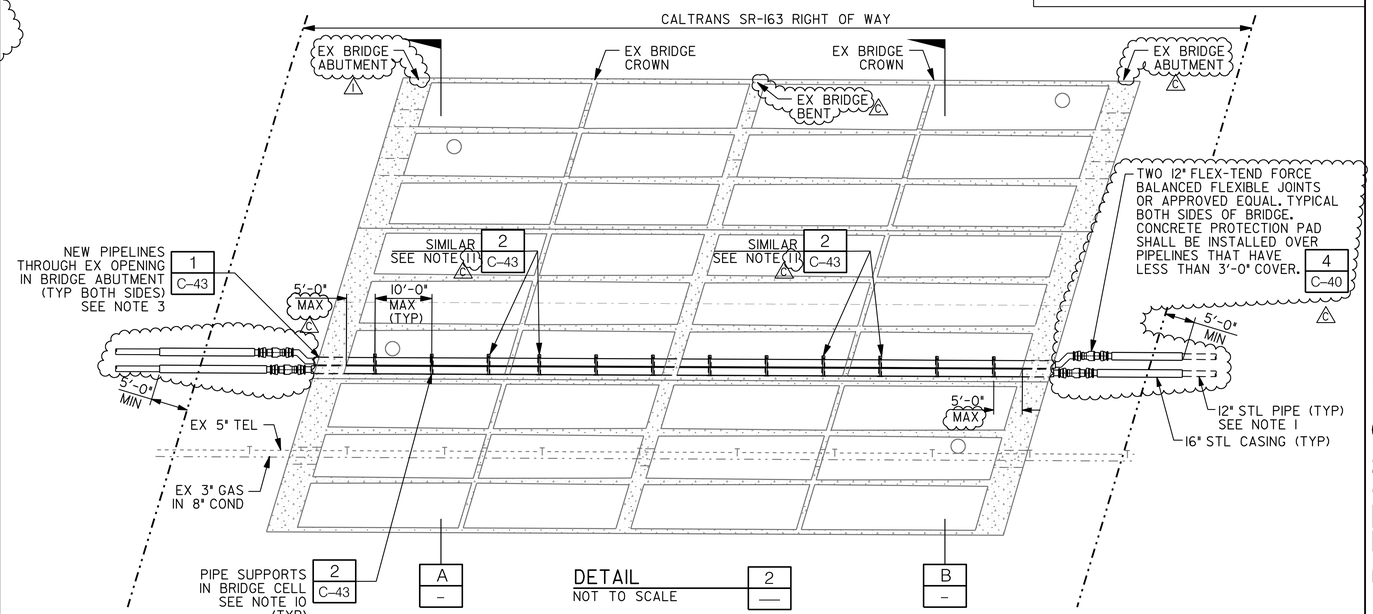
ADDENDUM C

MISCELLANEOUS DETAILS 1









NOTES:

1. CONTRACTOR SHALL PROVIDE FLANGED FORCE-BALANCED FLEX-TEND FLEXIBLE EXPANSION JOINTS, EBAA IRON MODEL 4412520B OR APPROVED EQUAL, ON BOTH SIDES OF BRIDGE CROSSING ON EACH OF THE 12" STEEL PIPES
2. EX 5-INCH FIBER OPTIC CONDUIT AND CABLE LOCATED IN EX UTILITY CELL THROUGH BRIDGE ABUTMENTS SHALL BE RELOCATED TO ADJACENT UTILITY CELL BY A VERIZON APPROVED SUB-CONTRACTOR PRIOR TO START OF CONSTRUCTION THROUGH PRE-NEGOTIATED WORK PACKAGE IDENTIFIED AS A BID ITEM IN THE BID SCHEDULE.
3. REMOVE EXISTING BRIDGE FORMWORK LEFT IN PLACE AS REQUIRED FOR PIPELINE INSTALLATION.
4. 12" DIAMETER STEEL PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 MATERIAL REQUIREMENTS, AND SHALL HAVE SHOP APPLIED CEMENT MORTAR LINING AND EPOXY COATING PER AWWA C205 AND C210 REQUIREMENTS. MINIMUM PIPE THICKNESS SHALL BE 3/8-INCH. C
5. 16" DIAMETER CASING SHALL BE STEEL PIPE ASTM A283 GRADE D. MINIMUM PIPE THICKNESS SHALL BE 3/8-INCH. C
6. WELDED JOINTS FOR 12" STEEL PIPE AND 16" STEEL CASING PIPE SHALL BE PER AWWA C210 AND C206 REQUIREMENTS.
7. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
8. CASING SPACER MATERIAL SHALL BE NON-METALLIC HIGH DENSITY POLYETHYLENE MEETING ISO 9002 STANDARDS.
9. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.
10. PIPE SUPPORTS/LATERAL RESTRAINTS SHALL BE INSTALLED AT 10 FEET MAXIMUM SPACING AND ONE SUPPORT/LATERAL RESTRAINT SHALL BE INSTALLED AT 5 FEET MAXIMUM FROM EACH BRIDGE ABUTMENT AND BENT. PROVIDE PIPE SUPPORT/LATERAL RESTRAINT ADJACENT TO CASING PIPE JOINTS. C
11. AT BRIDGE CROWNS THE VERTICAL CLEARANCE IS REDUCED AND THE WHOLE PIPE SUPPORT/LATERAL RESTRAINT ASSEMBLY WILL NOT FIT. AT EACH SIDE OF BRIDGE CROWNS PROVIDE ROLLERS, CLAMPS AND ATTACHMENT ANGLES, SIMILAR TO DETAIL 2 ON DRAWING C-43, DIRECTLY ANCHORED TO BRIDGE BOTTOM DECK. SEE PIPE SUPPORT NOTE 8 ON DETAIL 2, DRAWING C-43 FOR ANCHORAGE REQUIREMENTS.

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER DAVID JUDSON WILLIS No. CA5272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

MISCELLANEOUS DETAILS 2

C-42

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

MISCELLANEOUS DETAILS 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 45 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 10/6/2014
DESIGNED BY: F. Michael Bafous PROJECT MANAGER
CHECKED BY: Thomas Bosman PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	DA	10/6/14	

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-45-D

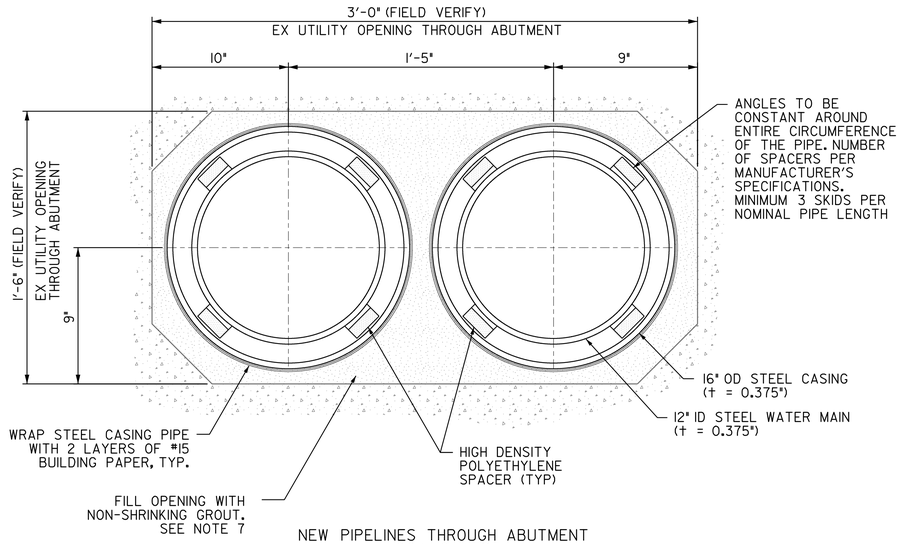
C MODIFIY DEATIL 1 TO CLARIFY LAYOUT OF FLEX-TENDS, CASINGS AND ABUTMENT PENETRATIONS. ADD NOTES 10 AND 11. MODIFY NOTES 4 AND 5. DELETE NOTE AND ADD CALLOUTS TO NOTES ON SECTION B. MODIFY DETAIL 2 FOR CLARITY.

ADDENDUM C

NOTES:

1. REMOVE EXISTING BRIDGE FORMWORK LEFT IN PLACE AS REQUIRED FOR PIPELINE INSTALLATION.
2. 12" DIAMETER STEEL PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 MATERIAL REQUIREMENTS AND SHALL HAVE SHOP APPLIED EPOXY LINING AND COATING PER AWWA C210 REQUIREMENTS.
3. 16" DIAMETER CASING SHALL BE STEEL PIPE ASTM A283 GRADE D.
4. WELDED JOINTS FOR 12" STEEL PIPE AND 16" STEEL CASING PIPE SHALL BE PER AWWA C210 AND C206 REQUIREMENTS. INTERIOR JOINT OF STEEL PIPE LINING SHALL BE REPAIRED PER AWWA C210 REQUIREMENTS.
5. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
6. CASING SPACER MATERIAL SHALL BE NON-METALLIC HIGH DENSITY POLYETHYLENE MEETING ISO 9002 STANDARDS.
7. NON-SHRINK GROUT SHALL BE FIVE STAR PRODUCTS, FIVE STAR GROUT; BASF MASTERFLOW 928; OR APPROVED EQUAL.
8. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

NOTE:
WEIGHT OF 12" DIA WATER MAIN, 16" DIA CASING AND CONTENTS = 120 LBS/FT

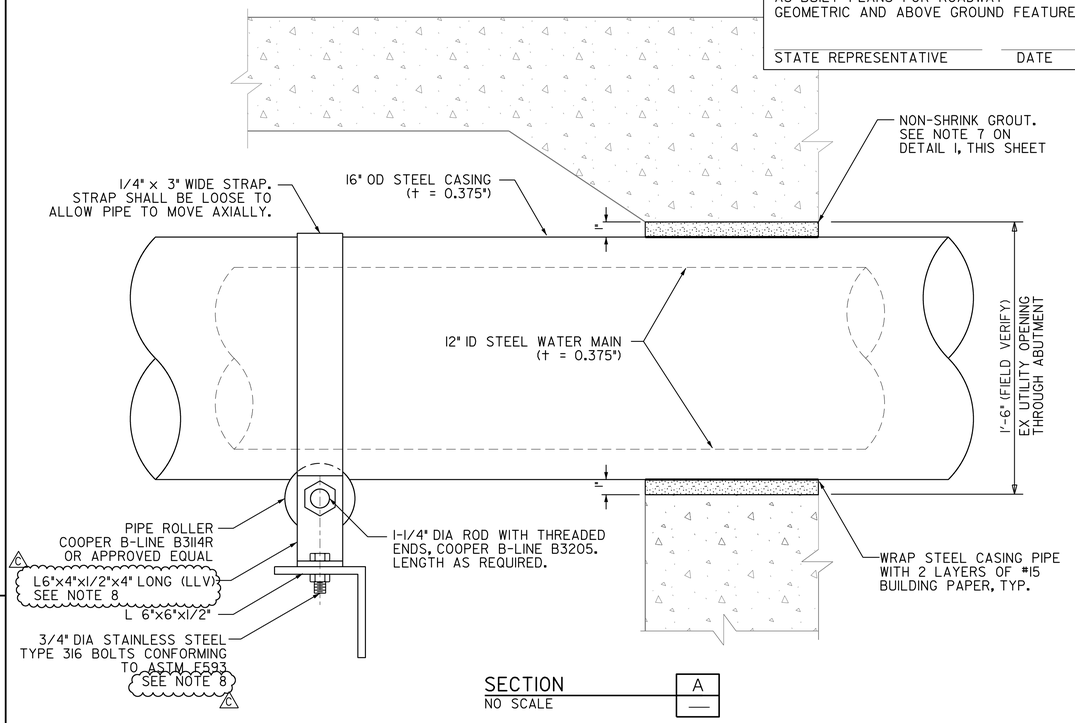


NEW PIPELINES THROUGH ABUTMENT
LOOKING WEST

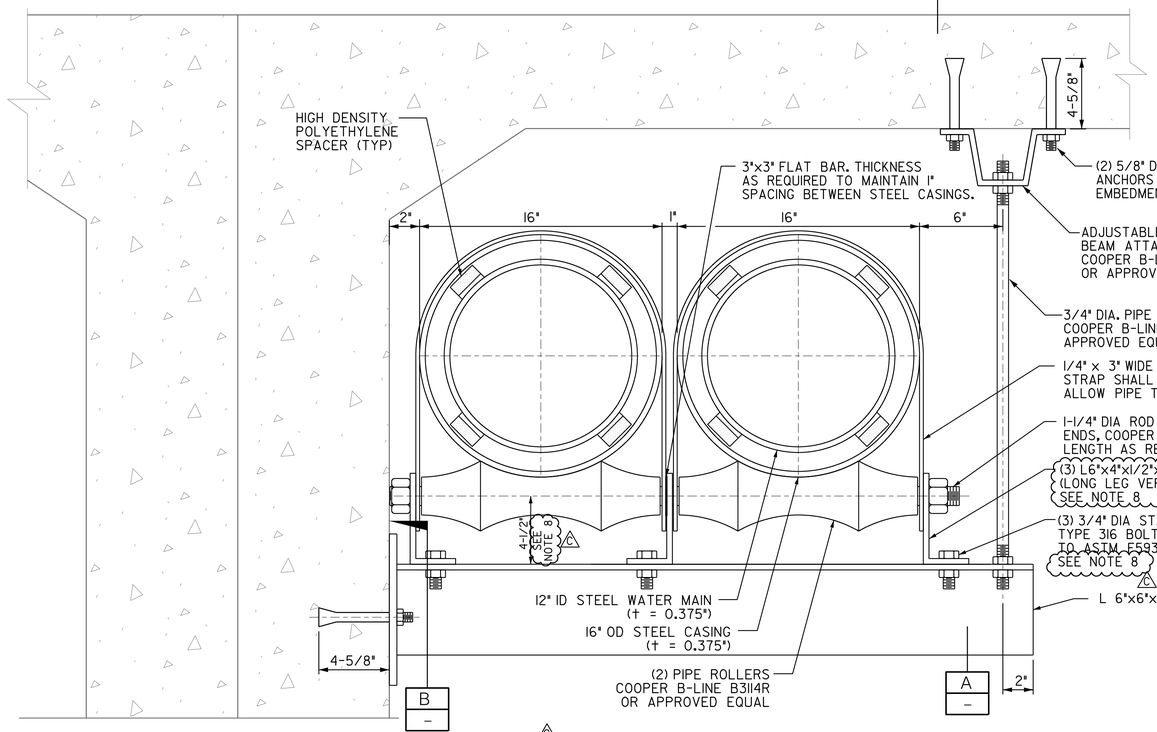
DETAIL 1
SCALE: 1/2" = 1'-0" VAR

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SECTION A
NO SCALE

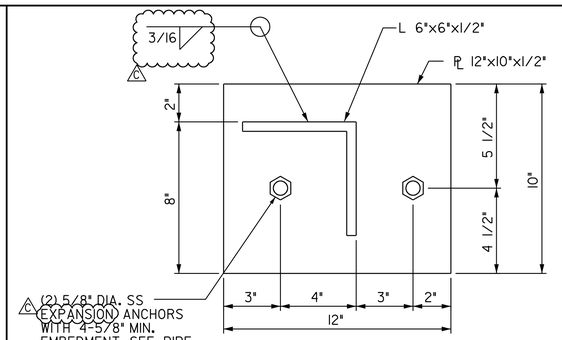


NEW PIPE SUPPORT/LATERAL RESTRAINT IN BRIDGE CELL
LOOKING WEST

DETAIL 2
SCALE: 1/2" = 1'-0" VAR

PIPE SUPPORT NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO PIPE SUPPORT FABRICATION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OCCURRING ON THE DRAWINGS OR FOUND ON HIS COORDINATION WORK.
2. CONTRACTOR SHALL LOCATE ALL EXISTING REINFORCING STEEL USING NON-DESTRUCTIVE SCANNING METHODS PRIOR TO DRILLING HOLES IN EXISTING CONCRETE FOR NEW ANCHORS BOLTS. LOCATION OF ANCHOR BOLTS SHALL BE ADJUSTED TO AVOID CUTTING EXISTING REINFORCING STEEL.
3. PIPE SUPPORTS SHALL BE SPACED AT 10-FEET MAXIMUM AND ONE SUPPORT SHALL BE INSTALLED AT 5 FEET MAXIMUM FROM EACH BRIDGE ABUTMENT OR BENT. PROVIDE PIPE SUPPORT/LATERAL RESTRAINTS ADJACENT TO CASING PIPE JOINTS.
4. STEEL ANGLES AND PLATES SHALL CONFORM TO ASTM A36 STANDARDS.
5. THE STUD MECHANICAL WEDGE EXPANSION ANCHORS SHALL BE SIMPSON STRONG-TIE, TYPE 316 STAINLESS STEEL, STRONG-BOLT 2. THE INSTALLATION TORQUE SHALL BE 80 FOOT-POUNDS. THE INSTALLATION OF THE EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION STEPS AND GUIDELINES INCLUDED IN THE ICC-ES EVALUATION REPORT NUMBER ESR-3037 FOR SIMPSON STRONG-TIE, STRONG-BOLT 2 WEDGE ANCHOR FOR CRACKED AND UNCRACKED CONCRETE. PERIODIC SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH SECTION 1705.1.1 OF THE 2013 CALIFORNIA BUILDING CODE. THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, DRILL-BIT TYPE, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, ANCHOR EMBEDMENT, TIGHTENING TORQUE AND ADHERENCE TO MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. PIPE SUPPORT ATTACHMENTS AND APPURTENANCES SHOWN IN THE DETAIL ARE COOPER B-LINE PRODUCTS. EQUAL PRODUCTS SHALL CONFORM TO THE ANSI/MSS SP-58 MANUFACTURERS STANDARDIZATION SOCIETY: PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN AND MANUFACTURE.
7. ALL METALS, WITH THE EXCEPTION OF THE EXPANSION ANCHOR BOLTS, SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND ASTM A153.
8. AT LOCATIONS CLOSE TO BRIDGE CROWNS WITH LIMITED VERTICAL CLEARANCES INSTALL THE (3) 6"X4"X1/2" ANGLES DIRECTLY TO THE BRIDGE BOTTOM DECK. ADJUST ROLLER ROD HOLE LOCATION AS REQUIRED. THE ANGLES SHALL BE ANCHORED TO THE CONCRETE DECK USING (3) 5/8"DIA. SS EXPANSION ANCHOR W/ 3 3/8" MIN EMBEDMENT. SEE NOTE 5.



SECTION B
NO SCALE

C-43

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

MISCELLANEOUS DETAILS 3

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 46 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 10/6/2014

SUBMITTED BY: F. Michael Bagoua, PROJECT MANAGER

CHECKED BY: PROJECT ENGINEER

WATER WBS S-11021
SEWER WBS N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-46-D

Brown AND Caldwell

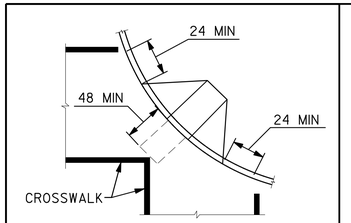
REGISTERED PROFESSIONAL ENGINEER JUDSON WADE No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

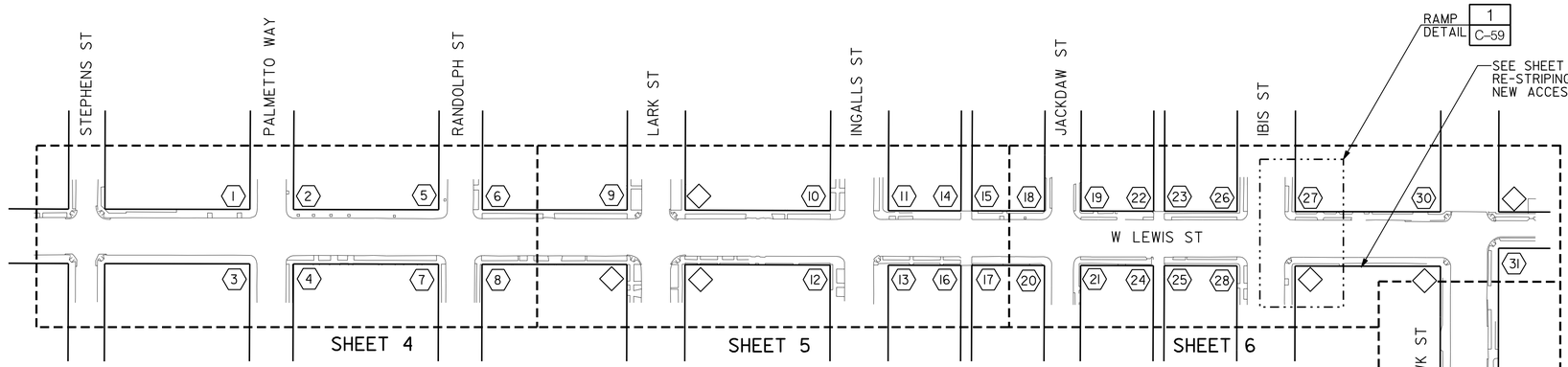
MISCELLANEOUS

C MODIFY NOTES 3, 5 AND 7. ADD NOTE 8. ADD CALLOUTS TO NOTE 8 ON DETAIL 2 AND SECTION A. MODIFY ANGLE SIZE ON DETAIL 2 AND SECTION A. MODIFY WELD CALLOUT ON DETAIL B. REVISE TITLE OF DETAIL 2.

ADDENDUM C

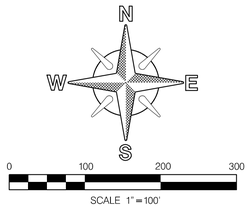


DIAGONAL OR CORNER TYPE CURB RAMPS



NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



LEGEND

⟨2⟩	CURB RAMP NUMBER
◇	NO ACTION
	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
CI	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138

CURB RAMP NOTES TABLE

⟨ ⟩ LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
1	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
2	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
3	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
4	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
5	A	X			X			SEE NOTES 2, 3, AND 8
6	A	X			X			SEE NOTES 2, 3, AND 8
7	A	X			X			SEE NOTES 2, 3, AND 8
8	A	X			X			SEE NOTES 2, 3, AND 8
9	A		X		X			SEE NOTE 8
10	A	X			X			SEE NOTE 8
11	A	X			X			
12	A	X			X			
13	A		X		X			
14	D	X			X			
15	D	X			X			
16	D	X			X			
17	D	X			X			
18	A	X			X			PATCH AND REPAIR DAMAGED ROAD AROUND CURB RAMP
19	A	X			X			PATCH AND REPAIR DAMAGED ROAD AROUND CURB RAMP
20	A	X			X			
21	A	X			X			
22	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
23	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
24	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
25	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
26	A	X			X			
27	A	X			X			SEE NOTE 2 AND DETAIL 1, SHT C-59
28	A	X			X			
29								NOT USED
30	A		X		X			
31	A		X		X			
32	A		X		X			
33	CI		X		X			SEE NOTES 4 AND 10
34	C2		X		X			
35	A		X		X			SEE NOTE 9
36	A		X		X			
37	D		X		X			SEE NOTE 5 AND DETAIL 2, SHT C-59
38	C2		X		X			SEE DETAIL 2, SHT C-59
39	A		X		X			RE-STRIPE ENTIRE INTERSECTION. SEE NOTES 1, 6, AND 7
40	A		X		X			RE-STRIPE ENTIRE INTERSECTION. SEE NOTES 1, 6, AND 7

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. CHECK HEIGHT OF 25 MPH SIGN. MUST BE 6'-8". IF NOT, RAISE.
10. CONTRACTOR SHALL INSTALL PEDESTRIAN RAILING BARRICADE PER SDE-103 BEHIND RETAINING CURB. DO NOT INSTALL R49 SIGN ON CHAIN.

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE UTILITY OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER. △C

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

G17. CONTRACTOR TO PROTECT OR RELOCATE ALL PULL BOXES/DRY UTILITIES AS REQUIRED. △C

G18. INSTALL ADA COMPLIANT PUSH BUTTONS. RELOCATE EXISTING PUSH BUTTONS AS REQUIRED. △C

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WARREN — NO. C45272 EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

10/06/2014

C-52

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 55 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH — DATE 10/6/2014
SUBMITTED BY: F. Michael Bagoua — PROJECT MANAGER
APPROVED BY: Francis Brooke — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
△C ADDENDUM C	BC	JA	10/6/14	

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

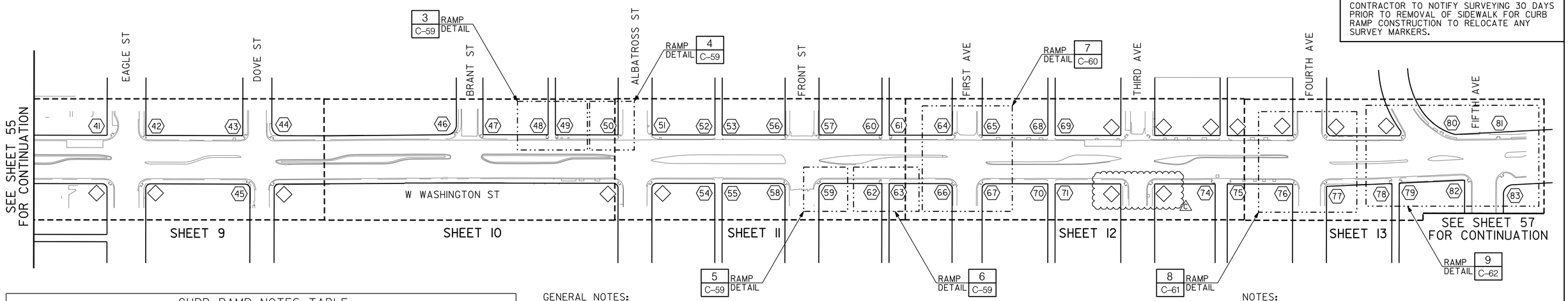
36656-55-D

△C REVISE NOTE G11 FOR CLARITY. ADD NOTED G17 AND G18.

ADDENDUM C

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
41	A		X		X			
42	CI		X		X			
43	A		X		X			
44	A		X		X			RE-STRIPE INTERSECTION FROM NE CORNER TO SE CORNER, SEE NOTE 1
45	A		X		X			
46	D		X		X			
47	D		X		X			
48	D		X		X			SEE NOTE 7 AND DETAIL 3, SHT C-59
49	D		X		X			SEE NOTE 7 AND DETAIL 3, SHT C-59
50	CI		X		X			SEE NOTE 5 AND DETAIL 4, SHT C-59
51	A		X		X			
52	D		X		X			
53	D		X		X			
54	D		X		X			
55	D		X		X			
56	CI		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTES 1 AND 4
57	A		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTE 1
58	A		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTE 1
59	A		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTE 1 AND DETAIL 5, SHT 59
60	D		X		X			
61	D		X		X			
62	D		X		X			SEE DETAIL 6, SHT C-59
63	D		X		X			SEE DETAIL 6 SHT C-59
64	B		X		X			SEE NOTE 1 AND DETAIL 7, SHT C-60
65	A		X		X			SEE NOTES 1, 7, AND DETAIL 7, SHT C-60
66	CI		X		X			SEE NOTES 1, 3, AND DETAIL 7, SHT C-60
67	A		X		X			SEE NOTE 1 AND DETAIL 7, SHT C-60
68	D		X		X			
69	D		X		X			
70	D		X		X			
71	D		X		X			
72	-		-		-			NOT USED C
73	-		-		-			NOT USED C
74	D		X		X			
75	D		X		X			
76	A		X		X			SEE NOTES 1, 3, AND DETAIL 8, SHT C-61
77	CI		X		X			SEE NOTE 1 AND DETAIL 8, SHT C-61
78	D		X		X			SEE DETAIL 9, SHT C-62
79	D		X		X			SEE DETAIL 9, SHT C-62
80	A		X		X			SEE NOTES 1, 5, AND DETAIL 9, SHT C-62
81	C2		X		X			SEE NOTE 1 AND DETAIL 9, SHT C-62
82	D		X		X			SEE NOTES 1, 5, 8, AND DETAIL 9, SHT C-62
83	A		X		X			TWO-RAMP CORNER - SEE NOTES 1, 8, AND DETAIL 9, SHT C-62

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE UTILITY OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER. C

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

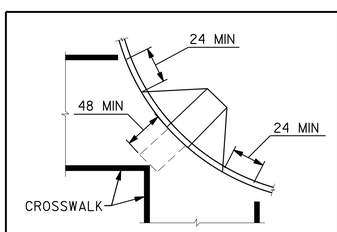
G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

G17. CONTRACTOR TO PROTECT OR RELOCATE ALL PULL BOXES/DRY UTILITIES AS REQUIRED. C

G18. INSTALL ADA COMPLIANT PUSH BUTTONS. RELOCATE EXISTING PUSH BUTTONS AS REQUIRED.

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.



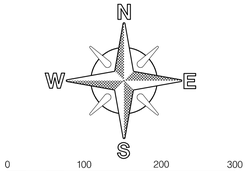
DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

2	CURB RAMP NUMBER
◇	NO ACTION
/\	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
CI	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 56 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH (PRINT NAME) — DATE 10/6/2014

SUBMITTED BY: F. Michael Bagoyo, PROJECT MANAGER

APPROVED: PROJECT ENGINEER

WATER WBS S-11021
SEWER WBS N/A

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-56-D

C-53

CURB RAMP PLAN 2

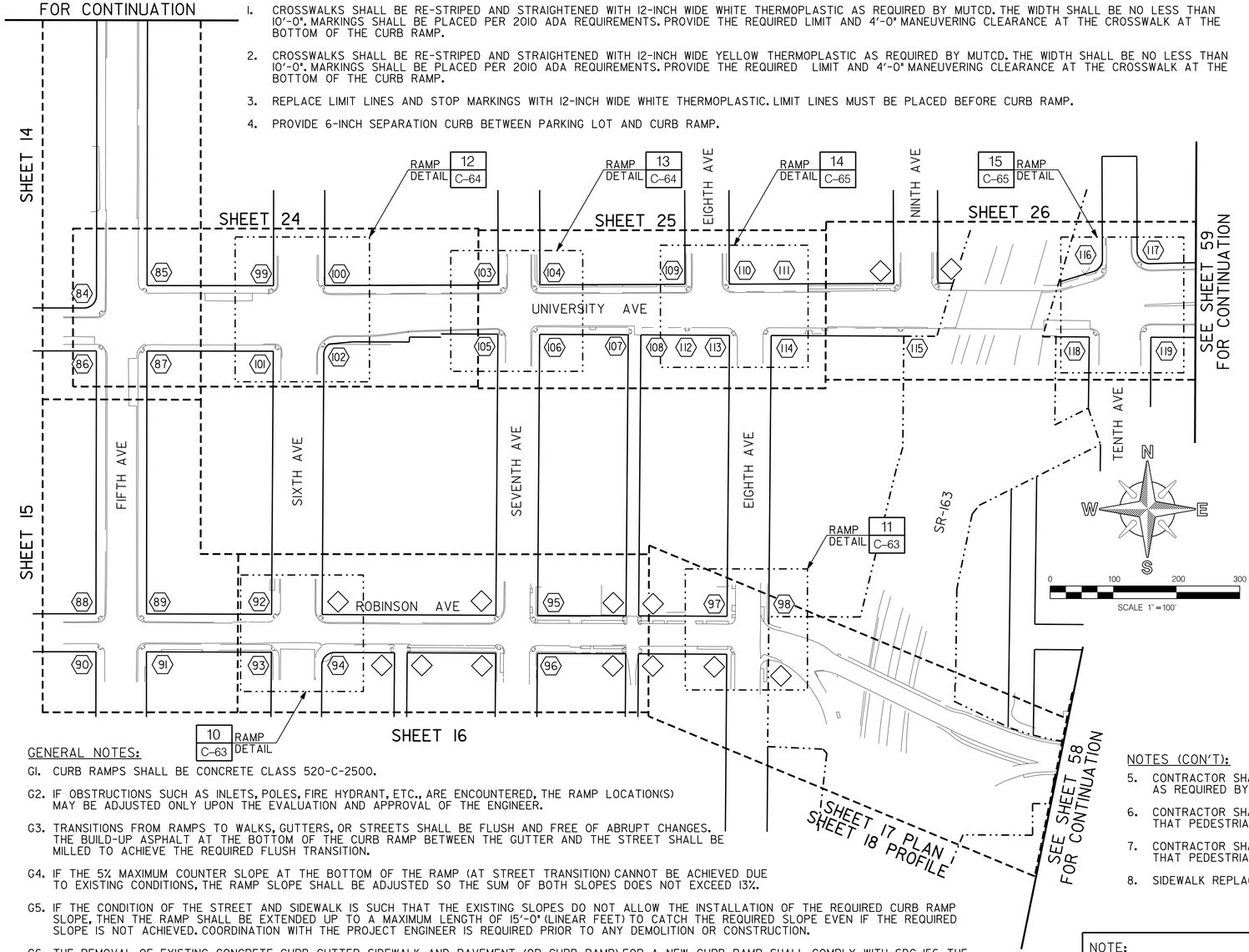
C REVISE NOTE G11 FOR CLARITY. ADD NOTED G17 AND G18. DELETE RAMPS 72 AND 73.

ADDENDUM C

SEE SHEET 56
FOR CONTINUATION

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.



GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE UTILITY OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER. C

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

G17. CONTRACTOR TO PROTECT OR RELOCATE ALL PULL BOXES/DRY UTILITIES AS REQUIRED. C

G18. INSTALL ADA COMPLIANT PUSH BUTTONS. RELOCATE EXISTING PUSH BUTTONS AS REQUIRED.

CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
84	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1 AND 7
85	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1 AND 7
86	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1, 7, AND 8
87	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1, 7, AND 8
88	A		X		X			SEE NOTE 1
89	A		X		X			SEE NOTES 1, 7, AND 8
90	A		X		X			SEE NOTES 1, 7, AND 8
91	A		X		X			SEE NOTE 1
92	C2		X		X			SEE NOTE 1 AND DETAIL 10, SHT C-63
93	C2		X		X			SEE NOTES 1, 3, AND DETAIL 10, SHT C-63
94	A	X			X			SEE NOTE 1 AND DETAIL 10, SHT C-63
95	A		X		X			SEE NOTE 1
96	A		X		X			SEE NOTE 1
97	A	X		X	X			SEE NOTE 1 AND DETAIL 11, SHT C-63
98	D	X			X			PLACE NEW RAMP DIRECTIONAL TO NW CORNER - SEE NOTE 1 AND DETAIL 11, SHT C-63
99	A		X		X			ADJUST PULLBOX - SEE NOTES 1, 7, AND DETAIL 12, SHT C-64
100	A		X		X			SEE NOTE 1 AND DETAIL 12, SHT C-64
101	A		X		X			SEE NOTES 1, 8, AND DETAIL 12, SHT C-64
102	C2		X		X			SEE NOTE 1 AND DETAIL 12, SHT C-64
103	A		X		X			SEE NOTE 1 AND DETAIL 13, SHT C-64
104	A		X		X			SEE NOTES 1, 3, AND DETAIL 13, SHT C-64
105	C1		X		X			SEE NOTES 1, 3, AND DETAIL 13, SHT C-64
106	A		X		X			SEE NOTE 1 AND DETAIL 13, SHT C-64
107	D		X		X			
108	D		X		X			
109	A		X		X			SEE NOTES 1, 3, AND DETAIL 14, SHT C-65
110	D		X		X			NEW RAMP DIRECTIONAL TO NW CORNER - SEE NOTES 1, 3, AND DETAIL 14, SHT C-65
111	B	X			X			SEE NOTES 1, 3, AND DETAIL 14, SHT C-65
112	B	X			X			REPLACE DRIVEWAY W/ CURB RAMP, ADD CURB AND GUTTER TO REMAINDER SEE NOTE 3 AND DETAIL 14, SHT C-65
113	C2		X		X			NEW RAMP DIRECTIONAL TO SE CORNER - SEE DETAIL 14, SHT C-65
114	A		X		X			SEE NOTE 3 AND DETAIL 14, SHT C-65
115	B		X		X			SEE NOTE 1
116	A		X		X			SEE NOTES 1, 3, AND DETAIL 15, SHT C-65
117	A		X		X			SEE NOTES 1, 3, AND DETAIL 15, SHT C-65
118	A		X		X			SEE NOTES 1, 3, 7, AND DETAIL 15, SHT C-65
119	A		X		X			SEE NOTES 1, 3, AND DETAIL 15, SHT C-65

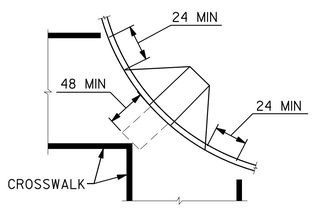
* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES (CON'T):

5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

2	CURB RAMP NUMBER
◇	NO ACTION
/\	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT WILSON WARREN No. CA5272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

C-54

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 3

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 57 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — 10/6/2014 DATE
IRAJ ASCHARZADEH
PRINT NAME

WATER WBS S-11021
SEWER WBS N/A

SUBMITTED BY: F. Michael Bagoua, PROJECT MANAGER
APPROVED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
C ADDENDUM C	BC	JA	10/6/14	

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

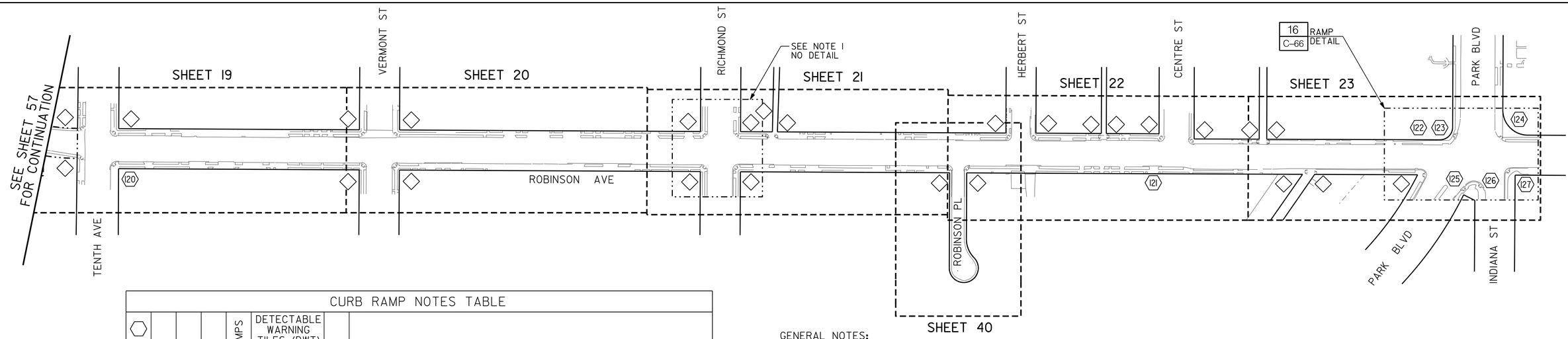
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-57-D

C REVISE NOTE G11 FOR CLARITY. ADD NOTED G17 AND G18.

ADDENDUM C

CURB RAMP PLAN 3



CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
120	A		X		X			SEE NOTE 1
121	B	X			X			MISSING CURB RAMP - SEE NOTE 3. ENSURE CURB RAMP DOES NOT IMPACT DRIVEWAY TO THE WEST. RELOCATE LIMIT LINE BEFORE CURB RAMP.
122	B	X			X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
123	C1		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
124	A		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
125	B		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
126	B		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
127	A		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK ARE AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE UTILITY OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER. (A)

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

G17. CONTRACTOR TO PROTECT OR RELOCATE ALL PULL BOXES/DRY UTILITIES AS REQUIRED. (C)

G18. INSTALL ADA COMPLIANT PUSH BUTTONS. RELOCATE EXISTING PUSH BUTTONS AS REQUIRED.

NOTE:

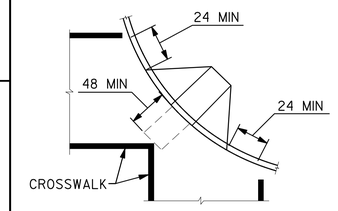
CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

LEGEND

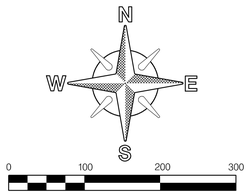
2	CURB RAMP NUMBER
	NO ACTION
	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



DIAGONAL OR CORNER TYPE CURB RAMPS



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON WARD NO. C43272 EXP. 06-31-18 CIVIL STATE OF CALIFORNIA

10/06/2014

C-55

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 4

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 58 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 10/6/2014

DESIGNED BY: F. Michael Bagoua, PROJECT MANAGER

CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
(A) ADDENDUM C	BC	JA	10/6/14	

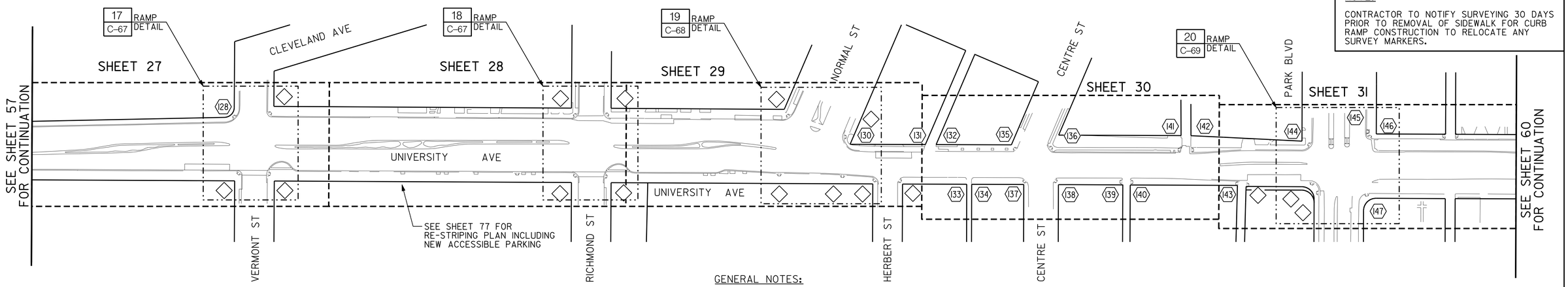
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS	S-11021
SEWER WBS	N/A
	VARIES (CCS27 COORDINATE)
	VARIES (CCS83 COORDINATE)
	36656-58-D

CURB RAMP PLAN 4

(A) REVISE NOTE G11 FOR CLARITY. ADD NOTED G17 AND G18.

ADDENDUM C



NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

CURB RAMP NOTES TABLE

LOCATION NO. ⬡	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
128	A		X		X			SEE NOTE 1 AND DETAIL 17, SHT C-67
129								NOT USED
130	C2	X			X			SEE NOTES 1, 10, AND DETAIL 19, SHT C-68
131	D	X			X			
132	D	X			X			
133	D	X			X			
134	D	X			X			
135	A		X		X			
136	A		X		X			
137	A		X		X			
138	A		X		X			
139	D		X		X			
140	D		X		X			
141	D		X		X			
142	D		X		X			
143	D		X		X			
144	A		X		X			SEE NOTES 1, 3, AND DETAIL 20, SHT C-69
145								NOT USED
146	A		X		X			SEE NOTES 1, 3, AND DETAIL 20, SHT C-69
147								NOT USED

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. RE-STRIPE ACCESSIBLE PARKING ON SOUTH SIDE. ADD TWO ACCESSIBLE PARKING SPOTS ON NORTH SIDE AND A CURB RAMP. SEE SDM-17, SHEETS 1 AND 4 OF 7.
10. INSTALL MODIFIED CURB RAMP, MOVE PULL BOX AND TRASH CAN, RELOCATE PEDESTRIAN PUSH BUTTON.
11. USE FLARELESS TYPE B RAMP TO ACCOMMODATE EXISTING VAULT.
12. COORDINATE WITH DEAN MARSDEN (UNIVERSITY MOBILITY PLAN).

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY (THE UTILITY OWNER) PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER. △C

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

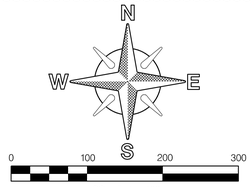
G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

△C G17. CONTRACTOR TO PROTECT OR RELOCATE ALL PULL BOXES/DRY UTILITIES AS REQUIRED.

G18. INSTALL ADA COMPLIANT PUSH BUTTONS. RELOCATE EXISTING PUSH BUTTONS AS REQUIRED.

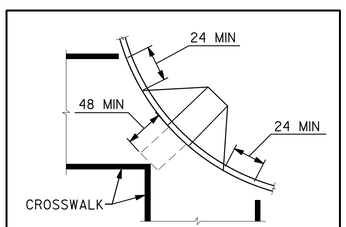


LEGEND

⬡2	CURB RAMP NUMBER
◇	NO ACTION
/\	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



DIAGONAL OR CORNER TYPE CURB RAMPS

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON WARD No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

C-56

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 5

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 59 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — DATE 10/6/2014

WATER WBS S-11021
SEWER WBS N/A

DESIGNED BY F. Michael Bafous, PROJECT MANAGER
CHECKED BY Thomas Bosman, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
△C ADDENDUM C	BC	JA	10/6/14	

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

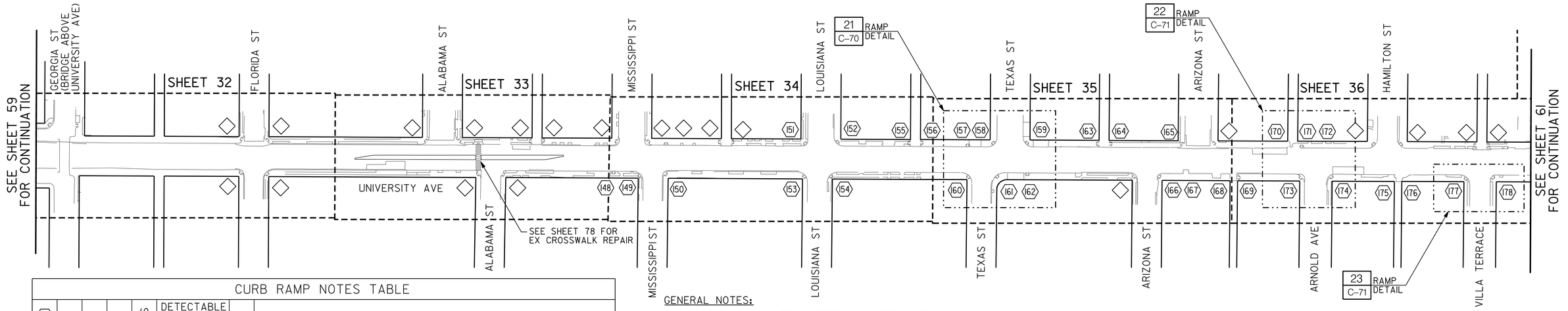
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-59-D

CURB RAMP PLAN 5

△C REVISE NOTE G11 FOR CLARITY. ADD NOTED G17 AND G18.

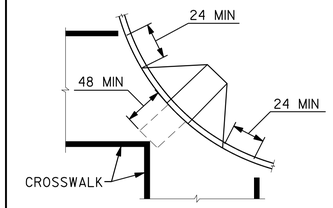
ADDENDUM C



CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
148	B		X		X			SEE NOTE 1
149	C1		X		X			
150	A		X		X			SEE NOTE 1
151	A		X		X			
152	A		X		X			
153	A		X		X			
154	C1		X		X			
155	D		X		X			
156	D		X		X			
157	B	X			X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
158	A		X		X			SEE NOTES, 1, 3, 5, AND DETAIL 21, SHT C-70
159	A		X		X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
160	A		X		X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
161	A		X		X			SEE NOTES 1, 3, 5, AND DETAIL 21, SHT C-70
162	B	X			X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
163	D		X		X			
164	D		X		X			
165	A		X		X			
166	A		X		X			
167	B	X			X			
168	D	X			X			
169	D		X		X			
170	D	X			X			SEE NOTE 1 AND DETAIL 22, SHT C-71
171	D	X			X			SEE NOTE 1 AND DETAIL 22, SHT C-71
172	D	X			X			SEE NOTE 1 AND DETAIL 22, SHT C-71
173	A		X		X			SEE NOTE 1 AND DETAIL 22, SHT C-71
174	A		X		X			SEE NOTES 1, 5, AND DETAIL 22, SHT C-71
175	D		X		X			
176	D		X		X			
177	D		X		X			DIRECTIONAL TO SE CORNER, SEE DETAIL 23, SHT C-71
178	D		X		X			DIRECTIONAL TO SW CORNER, SEE DETAIL 23, SHT C-71

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST



DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

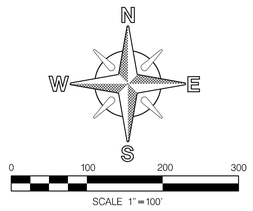
(2) CURB RAMP NUMBER

NO ACTION

EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE UTILITY OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER. (C)

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

G17. CONTRACTOR TO PROTECT OR RELOCATE ALL PULL BOXES/DRY UTILITIES AS REQUIRED. (C)

G18. INSTALL ADA COMPLIANT PUSH BUTTONS. RELOCATE EXISTING PUSH BUTTONS AS REQUIRED.

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. CHECK DRIVEWAY WIDTH AGAINST SDG-163, THEN DESIGN CURB RAMP. SEE ADA REPORT.
10. TWO NEW CURB RAMPS TO BE DESIGNED. REFER TO SDG-130, SHEET 2 OF 5.
11. COORDINATE WORK WITH JASON GUISE AND DEAN MARSDEN. ANOTHER PROJECT IS PLANNED HERE TO INSTALL A CROSSWALK.
12. COORDINATE WITH DEAN MARSDEN (UNIVERSITY MOBILITY PLAN).

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

C-57

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 6

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 60 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CIM ENGINEER IRAJ ASCHARZADEH PRINT NAME — 10/6/2014 DATE

SUBMITTED BY F. Michael Bagoua PROJECT MANAGER

APPROVED BY Francis Brown PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
(C) ADDENDUM C	BC	JA	10/6/14	

210-1725 CCS27 COORDINATE

1850444-6286407 CCS83 COORDINATE

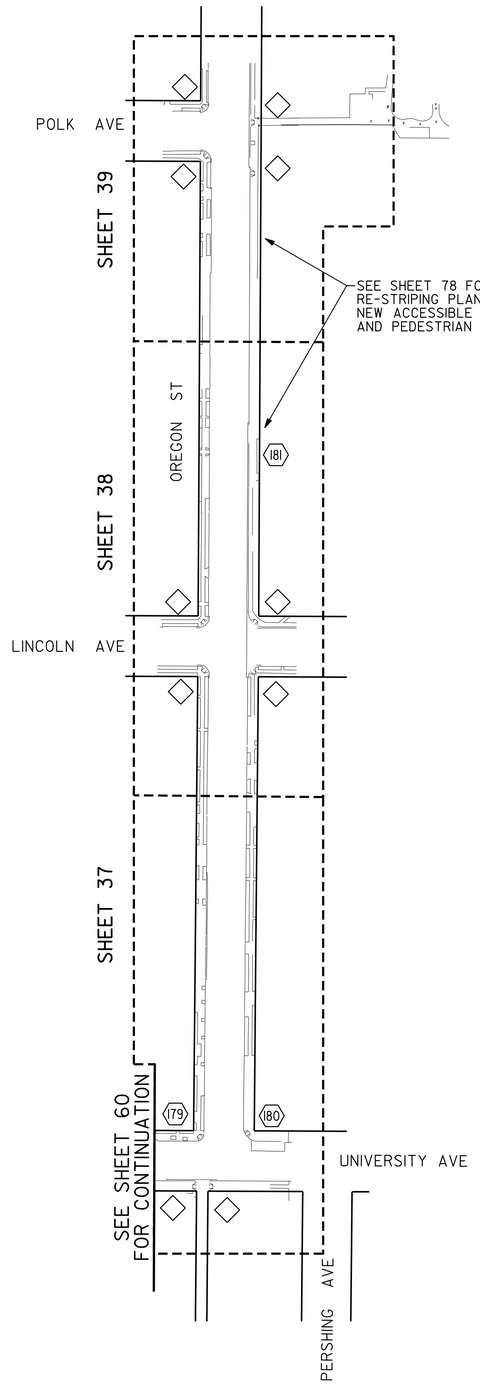
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-60-D

CURB RAMP PLAN 6

(C) REVISE NOTE G11 FOR CLARITY. ADD NOTED G17 AND G18.

ADDENDUM C



GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE UTILITY OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE ENGINEER. △C

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

G17. CONTRACTOR TO PROTECT OR RELOCATE ALL PULL BOXES/DRY UTILITIES AS REQUIRED. △C

G18. INSTALL ADA COMPLIANT PUSH BUTTONS. RELOCATE EXISTING PUSH BUTTONS AS REQUIRED. △C

CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
179	A		X		X			SEE NOTE 9
180	A		X		X			SEE NOTE 9
181	B	X			X			

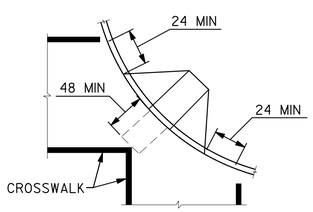
* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. COORDINATE WITH DEAN MARSDEN (UNIVERSITY MOBILITY PLAN).

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



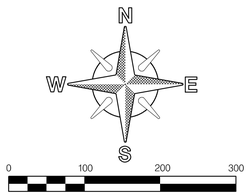
DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

(2)	CURB RAMP NUMBER
◇	NO ACTION
/\	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JEFFERY JUDSON WATSON NO. CA 5272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

10/06/2014

C-58

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 7

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 61 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH (PRINT NAME) — DATE 10/6/2014

DESIGNED BY: F. Michael Bafoua — PROJECT MANAGER

CHECKED BY: Francisco Rodarte — PROJECT ENGINEER

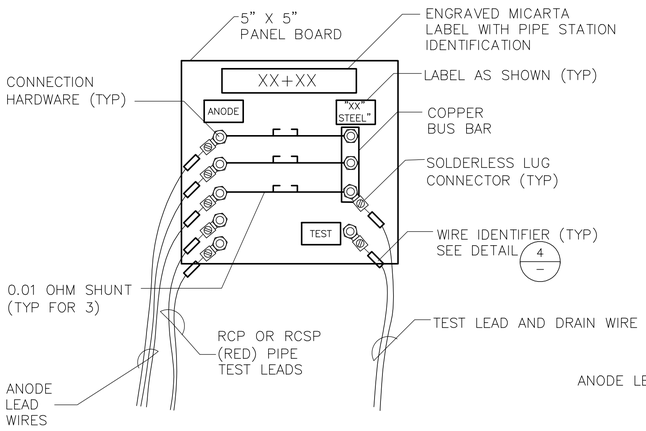
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			
△C ADDENDUM C	BC	JA	10/6/14	

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS	S-11021
SEWER WBS	N/A
	VARIES CCS27 COORDINATE
	VARIES CCS83 COORDINATE
	36656-61-D

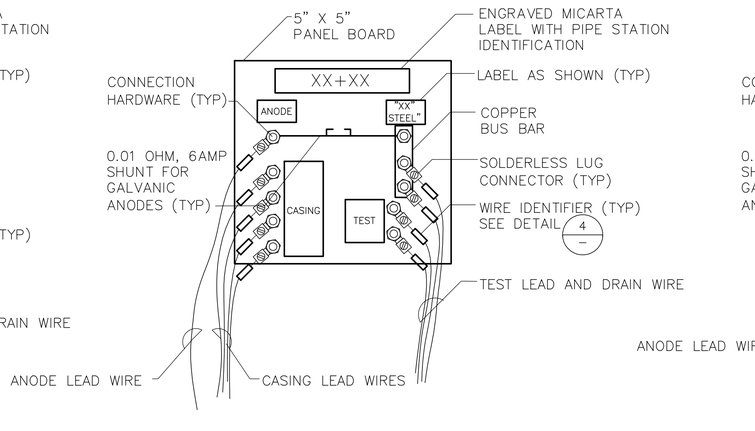
△C REVISE NOTE G11 FOR CLARITY. ADD NOTED G17 AND G18.

ADDENDUM C



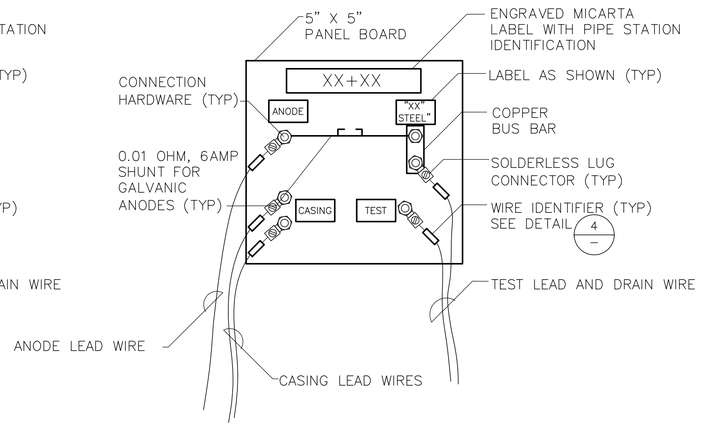
NOTE: RCP AND RCSP TEST LEADS ARE ONLY TO BE INCLUDED AT LOCATIONS WHERE ELECTRICAL ISOLATION IS BEING INSTALLED BETWEEN THE STEEL AND RCP/RCSP PIPING.

ATS TEST BOARD 1
NTS

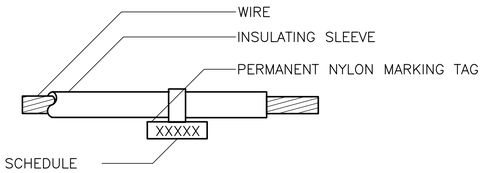


NOTE: EACH PIPELINE WILL HAVE ONE WIRE CONNECTED TO THE DRAIN COPPER BUS BAR AND ONE WIRE DESIGNATED AS A TEST WIRE

DUAL PIPE ANODE
TEST BOARD 2
NTS



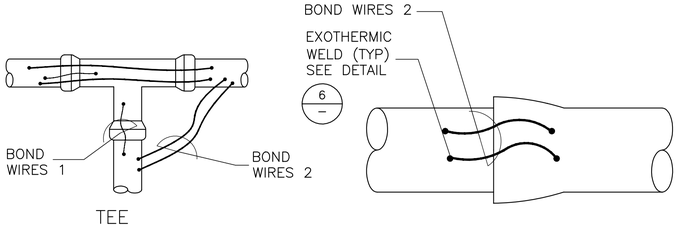
PIPE ANODE
TEST BOARD 3
NTS



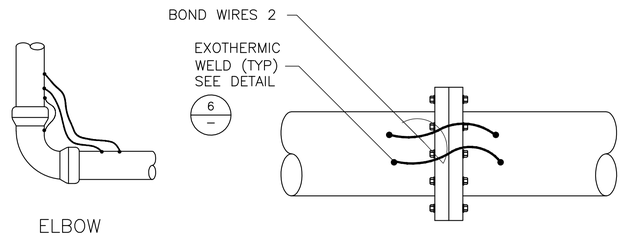
STRUCTURE	LABEL
XX" CASING	CSG
XX" STEEL WATER LINE	XX" ST
GALVANIC ANODE	ANODE

NOTE: XX" REFERS TO PIPE/CASING DIAMETER

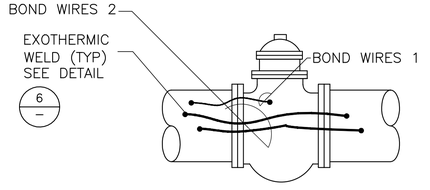
WIRE IDENTIFIER 4
NTS



TEE



ELBOW



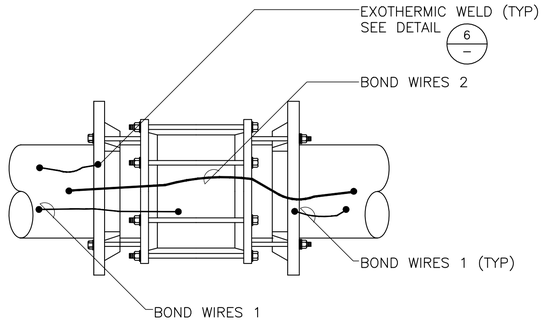
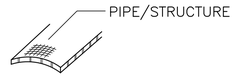


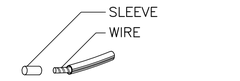
TABLE		
PIPE DIAMETER	BOND WIRE 1	BOND WIRE 2
12" TO 16"	1-#10 THHN	2-#4 HMWPE
36"	1-#10 THHN	2-#2 HMWPE

C

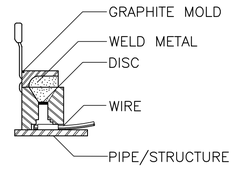
JOINT BONDS 5
NTS



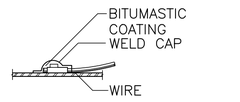
1. FILE PIPE/STRUCTURE TO BARE METAL AND CLEAN SURFACE.



2. STRIP INSULATION FROM WIRE AND ATTACH SLEEVE.



3. HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR. IGNITE WITH FLINT GUN REMOVE SLAG FROM CONNECTION WITH CHIPPING HAMMER.



4. COVER CONNECTION WITH BITUMASTIC COATING OVER ALL EXPOSED METAL, PLACE WELD CAP OVER CONNECTION. REPAIR ALL DAMAGE TO COATING AND LINING IN ACCORDANCE WITH MFG RECOMMENDATIONS.

EXOTHERMIC WELD 6
NTS

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

UNIVERSITY AVE PIPELINE REPLACEMENT

CP-3

UNIVERSITY AVE PIPELINE REPLACEMENT

CATHODIC PROTECTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 83 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — 10/6/2014 DATE
SUBMITTED BY: F. Michael Bafous PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	V&A			
C ADDENDUM C	V&A	JA	10/6/14	

210-1779 CCS27 COORDINATE
1850444--6280407 CCS83 COORDINATE
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED
36656-82-D

V&A
11011 Via Frontera, Suite C,
San Diego, CA 92127
Gwillson@vsengineering.com
Tel. (858) 576-0226, Fax (858) 576-0004

REGISTERED PROFESSIONAL ENGINEER
GLENN H. WILSON
NO. CR1076
CORROSION
STATE OF CALIFORNIA

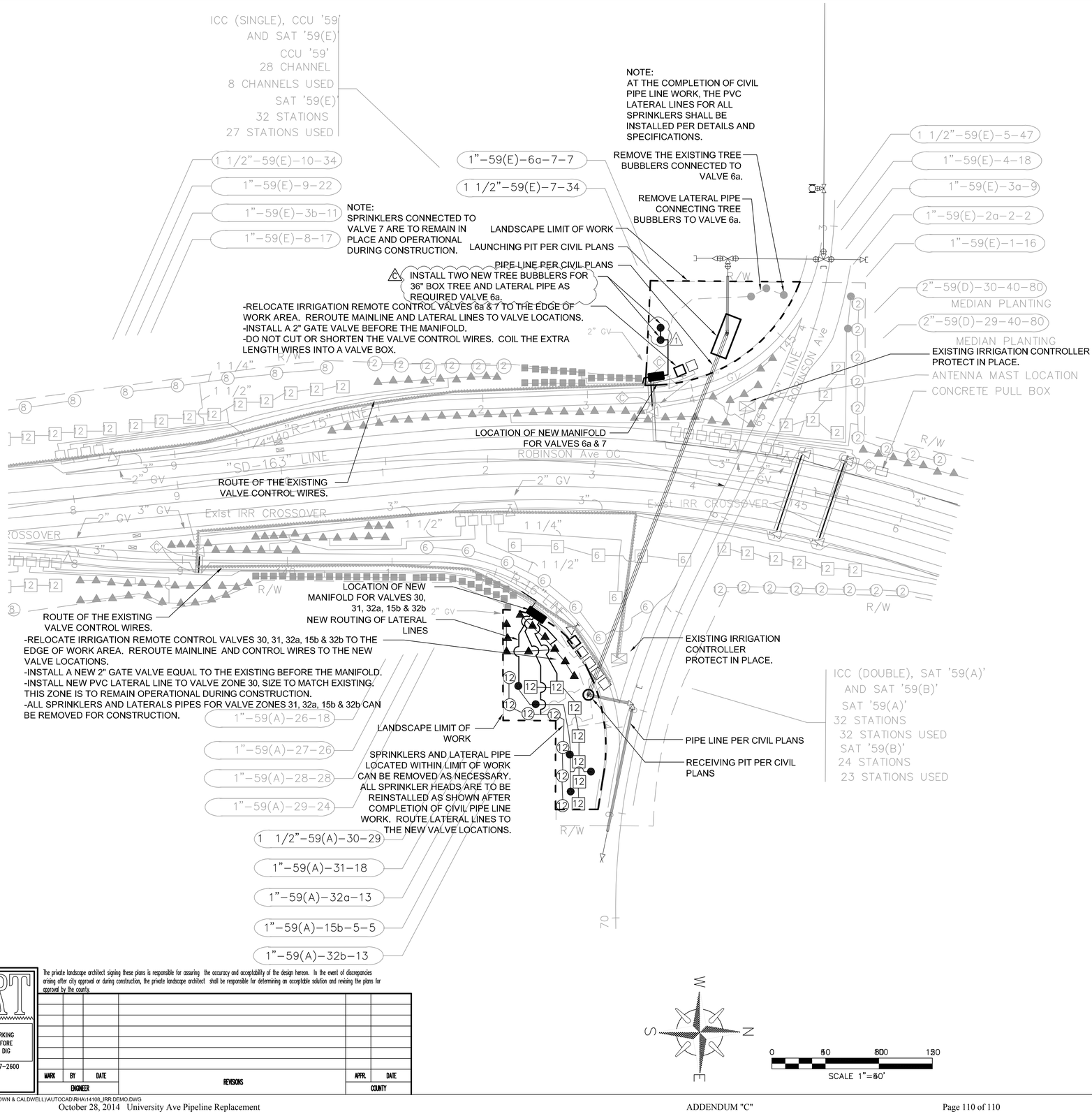
10/02/2014

C REVISE DETAIL 5 TABLE

ADDENDUM C

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PL 2.49
AS-BULIT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



EQUIPMENT NOTES:
1. PRIOR TO RELOCATING ANY REMOTE CONTROL VALVES, CONTRACTOR SHALL CONFIRM THAT THE VALVES ARE IN OPERATIONAL AND SERVICEABLE CONDITION. ANY VALVE FOUND IN POOR CONDITION SHALL BE REPLACED WITH A NEW EQUAL MODEL.
2. ALL IRRIGATION HEADS INSTALLED AFTER PIT AND PIPE CONSTRUCTION PER THIS PLAN SHALL BE NEW EQUAL MODELS OF WHAT WAS REMOVED PRIOR TO PIT AND PIPE CONSTRUCTION.
3. ALL REMOTE CONTROL VALVES ARE TO INSTALLED WITH NEW PIPE FITTINGS AND WIRE CONNECTIONS PER DETAILS AND SPECIFICATIONS.
4. NEW VALVE BOXES, EQUAL TO THE EXISTING, WILL BE INSTALLED AT ALL RELOCATED VALVES PER DETAILS AND SPECIFICATIONS.
5. ALL NEW IRRIGATION PIPING SHALL BE EQUAL IN SIZE TO THE EXISTING. THE PIPE SIZES SHALL BE NOTED BY THE CONTRACTOR DURING REMOVAL.
6. CONTRACTOR SHALL CREATE AS-BUILT DRAWINGS FOR ALL RELOCATED EQUIPMENT.
7. ALL PVC PIPING SHALL BE SCHEDULE 40 AND 1" MINIMUM SIZE.
8. ALL VEGETATION THAT IS NOT DIRECTLY IMPACTED BY CONSTRUCTION ACTIVITIES, BUT DOES HAVE WATER SHUT-OFF DUE TO CONSTRUCTION ACTIVITIES, MUST BE TRUCK WATERED 3 TIMES A WEEK WHILE THE IRRIGATION IS NOT OPERATIONAL.

NOTES:
1. CONTRACTOR SHALL REMOVE OR RELOCATE ALL IRRIGATION WITHIN THE LANDSCAPE LIMIT OF WORK EXCEPT FOR ITEMS NOTED PRIOR TO THE COMMENCEMENT OF PIT AND PIPE CONSTRUCTION.
2. CONTRACTOR SHALL TAKE ALL CARE TO PROTECT AND AVOID ANY DAMAGE TO EXISTING IRRIGATION MATERIAL TO BE PROTECTED IN PLACE WITHIN THE LANDSCAPE LIMIT OF WORK AS WELL AS ALL IRRIGATION MATERIAL LOCATED OUTSIDE OF THE LANDSCAPE LIMIT OF WORK. CONTRACTOR SHALL REPLACE ANY MATERIAL NOT TO BE REMOVED THAT IS DAMAGED DURING CONSTRUCTION WITHIN 7 DAYS AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL INSTALL NEW IRRIGATION MATERIAL AFTER PIT AND PIPE CONSTRUCTION IS COMPLETED AS SHOWN ON THIS IRRIGATION REPLACEMENT PLAN.
4. CONTRACTOR SHALL OBSERVE ALL ESTABLISHMENT AND MAINTENANCE PERIODS AS CALLED FOR IN THE PROJECT WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL REFER TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF SAN DIEGO WRITTEN SPECIFICATIONS, AND PROJECT SSP FOR FURTHER INFORMATION ON METHODS AND MATERIALS.

SPRINKLER SCHEDULE:

SYMBOL	DESCRIPTION	RADIUS	GPM	PATTERN	
(12)	GEAR DRIVE ROTOR	25'	1.8	FULL	
[12]	GEAR DRIVE ROTOR	25'	1.8	PART	
▲	SHRUB SPRAY	15'	3.7	FULL	
▲	SHRUB SPRAY	15'	1.8	PART	
●	FLOOD BUBBLER	-	1.0	-	

NOTES:
1. ALL SPRINKLERS HEADS SHALL HAVE AN INTERNAL OR EXTERNAL CHECK VALVE.
2. REFER TO EQUIPMENT NOTES FOR TYPE OF IRRIGATION HEADS.

ALL FADED LINES ARE EXISTING IRRIGATION AND ARE TO REMAIN - PROTECT IN PLACE

L-1

IRRIGATION PLAN

DIGALERT
DIAL BEFORE YOU DIG TOLL FREE 1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

The private landscape architect signing these plans is responsible for assuring the accuracy and acceptability of the design hereon. In the event of discrepancies arising after city approval or during construction, the private landscape architect shall be responsible for determining an acceptable solution and revising the plans for approval by the county.

MARK	BY	DATE	REVISIONS	APPR.	DATE

ENGINEER COUNTY

RHA LANDSCAPE ARCHITECTS PLANNERS, INC.
6780 INDIANA AVE., SUITE 160
RIVERSIDE, CALIFORNIA
92506
LIC. #1512
PH. (951) 781-1930
FAX (951) 686-8091

SEAL-LANDSCAPE ARCHITECT
LICENSED LANDSCAPE ARCHITECT DOUGLAS GROVE NO. 2798 Signature 11/30/15 Renewal Date 6/6/14 Date STATE OF CALIFORNIA

UNIVERSITY AVE PIPELINE REPLACEMENT
IRRIGATION DEMO AND REPLACEMENT PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 83 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 10/6/2014
SUBMITTED BY: F. Michael Bafoua PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RHA			
A ADDENDUM C	RHA	JA	10/6/14	

210-1779 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED
36656-83-D

A REVISE BUBBLER NOTE

ADDENDUM C

City of San Diego

CITY CONTACT: Damian Singleton, Contract Specialist, Email: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633

ADDENDUM "D"

FOR

UNIVERSITY AVE PIPELINE REPLACEMENT

BID NO.: K-15-5716-DBB-3
SAP NO. (WBS/IO/CC): S-11021
CLIENT DEPARTMENT: 2013
COUNCIL DISTRICT: 3
PROJECT TYPE: KA

BID DUE DATE:

2:00 PM
NOVEMBER 21 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Civil Engineer:

Robert J. Warren 11/10/14

1) Registered Civil Engineer — Date

Robert J. Warren

Seal:

11/10/14

2) For City Engineer — Date

Iraj Asgharzadeh

Seal

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

B. CLARIFICATION

1. Only Bid item 111 was added to the Bid List of this Addendum.

C. ADDENDUM C

1. To, Section D., Volume 1, Item 2, Attachment A, Scope of Work, Construction Cost, **DELETE** in its entirety.

2. To, Section D., Volume 1, Item 4, Wage Rates (pages 39 through 67), **DELETE** in their entirety and **SUBSTITUTE** with pages 4 through 36 of this Addendum.

3. To, Section D., Volume 2, Item 1, BIDDING DOCUMENTS, PROPOSAL (Bid) pages 80 through 87, **DELETE** in their entirety and **SUBSTITUTE** with pages 37 through 45 of this Addendum.

D. VOLUME 1

1. To Attachment A, Scope of Work, page 29, Item 2, Construction Cost, **DELETE** in its entirety and **SUBSTITTUE** with the following:

   2. CONSTRUCTION COST: The Engineer's Cost Estimate for this construction cost is **$19,960,000.00**.

James Nagelvoort, Director
Public Works Department

Dated: *November 10, 2014*
San Diego, California

JN/BD/egz

9. **WAGE RATES**. This contract shall be subject to the following Davis-Bacon Wage Decisions:

General Decision Number: CA140001 11/07/2014 CA1

Superseded General Decision Number: CA20130001

State: California

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	01/03/2014
1	01/10/2014
2	01/24/2014
3	02/21/2014
4	05/09/2014
5	05/23/2014
6	05/30/2014
7	06/20/2014
8	07/04/2014
9	07/11/2014
10	07/18/2014
11	07/25/2014
12	08/08/2014
13	08/22/2014
14	10/17/2014
15	11/07/2014

ASBE0005-002 06/30/2014

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems)	$ 35.44	19.36
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls)	$ 24.34	16.09

ASBE0005-004 06/24/2013

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)	$ 16.95	10.23

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER	$ 41.17	28.27

BRCA0004-008 05/01/2014

	Rates	Fringes
BRICKLAYER; MARBLE SETTER	$ 34.10	15.05

BRCA0018-004 06/01/2014

	Rates	Fringes
MARBLE FINISHER	$ 28.45	11.38
TILE FINISHER	$ 23.78	9.84
TILE LAYER	$ 35.14	14.33

BRCA0018-010 09/01/2013

	Rates	Fringes
TERRAZZO FINISHER	$ 26.59	10.34
TERRAZZO WORKER/SETTER	$ 33.63	11.13

CARP0409-002 07/01/2008

	Rates	Fringes
Diver		
(1) Wet	$ 663.68	9.82
(2) Standby	$ 331.84	9.82
(3) Tender	$ 323.84	9.82
(4) Assistant Tender	$ 299.84	9.82

Amounts in "Rates' column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer	$ 17.00	7.41

CARP0547-001 07/01/2009

	Rates	Fringes
CARPENTER		
(1) Bridge	$ 37.28	10.58
(2) Commercial Building	$ 32.30	10.58
(3) Heavy & Highway	$ 37.15	10.58
(4) Residential Carpenter	$ 25.84	10.58
(5) Residential Insulation Installer	$ 18.00	8.16
MILLWRIGHT	$ 37.65	10.58
PILEDRIVERMAN	$ 37.28	10.58

CARP0547-002 07/01/2009

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories		
Drywall Installer/Lather	$ 21.00	8.58
Drywall Stocker/Scrapper	$ 11.00	6.67
(2) All other work		
Drywall Installer/Lather	$ 27.35	9.58
Drywall Stocker/Scrapper	$ 11.00	6.67

ELEC0569-001 06/02/2014

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer	$ 44.91	3%+11.87
Electrician	$ 44.16	3%+11.87
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer	$ 40.00	3%+11.87
Electrician	$ 39.25	3%+11.87

ELEC0569-005 09/01/2014

	Rates	Fringes
Sound & Communications		
Sound Technician	$ 28.82	3%+10.81
Soundman	$ 23.06	3%+ 9.17

SOUND TECHNICIAN: Terminating, operating and performing final check-out

SOUNDMAN: Wire-pulling, splicing, assembling and installing devices

SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television

distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.

ELEC0569-006 10/06/2014

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1	$ 28.75	3%+7.42
Utility Technician #2	$ 23.90	3%+7.42

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

ELEC0569-008 06/03/2013

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories)	$ 22.37	3%+3.30

ELEC1245-001 06/01/2013

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer	$ 50.30	15.00
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment)	$ 40.17	14.56
(3) Groundman	$ 30.73	13.48
(4) Powderman	$ 44.91	13.48

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

---

ELEV0018-001 01/01/2014

	Rates	Fringes
ELEVATOR MECHANIC	$ 49.03	26.785

FOOTNOTE:
PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

ENGI0012-003 07/07/2014

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1	$ 39.05	22.25
GROUP 2	$ 39.83	22.25
GROUP 3	$ 40.12	22.25
GROUP 4	$ 41.61	22.25
GROUP 5	$ 41.86	22.25
GROUP 6	$ 41.83	22.25
GROUP 8	$ 41.94	22.25
GROUP 9	$ 42.19	22.25
GROUP 10	$ 42.06	22.25
GROUP 11	$ 42.31	22.25
GROUP 12	$ 42.23	22.25
GROUP 13	$ 42.33	22.25
GROUP 14	$ 42.36	22.25
GROUP 15	$ 42.44	22.25
GROUP 16	$ 42.56	22.25
GROUP 17	$ 42.73	22.25
GROUP 18	$ 42.83	22.25
GROUP 19	$ 42.94	22.25
GROUP 20	$ 43.06	22.25
GROUP 21	$ 43.23	22.25
GROUP 22	$ 43.33	22.25
GROUP 23	$ 43.44	22.25
GROUP 24	$ 43.56	22.25
GROUP 25	$ 43.73	22.25
OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting)		
GROUP 1	$ 40.40	22.25
GROUP 2	$ 41.18	22.25
GROUP 3	$ 41.47	22.25
GROUP 4	$ 41.61	22.25
GROUP 5	$ 41.83	22.25
GROUP 6	$ 41.94	22.25
GROUP 7	$ 42.06	22.25
GROUP 8	$ 42.23	22.25
GROUP 9	$ 42.40	22.25
GROUP 10	$ 43.40	22.25
GROUP 11	$ 44.40	22.25
GROUP 12	$ 45.40	22.25
GROUP 13	$ 46.40	22.25

OPERATOR: Power Equipment
(Tunnel Work)

GROUP 1	$ 40.90	22.25
GROUP 2	$ 41.68	22.25
GROUP 3	$ 41.97	22.25
GROUP 4	$ 42.11	22.25
GROUP 5	$ 42.33	22.25
GROUP 6	$ 42.44	22.25
GROUP 7	$ 42.56	22.25

PREMIUM PAY:
$3.75 per hour shall be paid on all Power Equipment Operator work on the followng Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: $2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter(concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms);

Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1

drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bendng machine operator; Trenching machine operator (over 6 ft. depth capacity,

manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote- control earth-moving equipment operator (operating a second piece of equipment: $1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)
GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds.and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem

(scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)
GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDRIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator
GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)
GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point whch is the SW corner of Section 34.T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM.

Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

ENGI0012-004 08/01/2014

	Rates	Fringes
OPERATOR: Power Equipment (DREDGING)		
(1) Leverman	$ 48.60	22.40
(2) Dredge dozer	$ 42.63	22.40
(3) Deckmate	$ 42.52	22.40
(4) Winch operator (stern winch on dredge)	$ 41.97	22.40
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand	$ 41.43	22.40
(6) Barge Mate	$ 42.04	22.40

IRON0377-002 07/01/2014

	Rates	Fringes
Ironworkers:		
Fence Erector	$ 26.58	17.74
Ornamental, Reinforcing and Structural	$ 33.50	26.74

PREMIUM PAY:

$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,
Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0089-001 07/01/2013

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1	$ 26.98	15.42
Group 2	$ 27.66	15.42
Group 3	$ 28.37	15.42
Group 4	$ 29.17	15.42
Group 5	$ 31.10	15.42
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer	$ 24.88	13.75
(2) Cleanup, Landscape, Fencing (Chain Link & Wood)	$ 23.59	13.75

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading

work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettlemen, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas,

electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and inclduing rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled
GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of oepration, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all pwder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	$ 27.98	13.39

LABO0089-004 07/01/2013

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1	$ 26.98	15.42
Group 2	$ 27.66	15.42
Group 3	$ 28.37	15.42
Group 4	$ 29.17	15.42
Group 5	$ 31.10	15.42

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber,Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/'2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of

materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.
GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter,Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting,m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prfefabricated Manhole Installer, Sandblast Nozzleman (Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 01/01/2014

	Rates	Fringes
Asbestos Removal Laborer	$ 28.00	15.25

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO1184-001 07/01/2014

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer	$ 31.65	13.33
(2) Vehicle Operator/Hauler	$ 31.82	13.33
(3) Horizontal Directional Drill Operator	$ 33.67	13.33
(4) Electronic Tracking Locator	$ 35.67	13.33
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1	$ 32.56	16.28
GROUP 2	$ 33.86	16.28
GROUP 3	$ 35.87	16.28
GROUP 4	$ 37.61	16.28

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

---

LABO1414-003 08/07/2013

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER	$ 27.45	16.36
PLASTER TENDER	$ 30.00	16.36

Work on a swing stage scaffold: $1.00 per hour additional.

Work at Military Bases - $3.00 additional per hour:
Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2014

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County)	$ 26.89	12.28
(2) All Other Work	$ 30.27	12.28

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

---

* PAIN0036-010 10/01/2014

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction	$ 26.84	14.29
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories)	$ 21.00	13.91

PAIN0036-012 10/01/2013

	Rates	Fringes
GLAZIER	$ 38.80	17.25

PAIN0036-019 07/01/2014

	Rates	Fringes
SOFT FLOOR LAYER	$ 26.77	12.75

LAS0200-005 08/06/2014

	Rates	Fringes
PLASTERER	$ 37.43	13.28

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: $3.00 additional per hour.

PLAS0500-001 07/01/2014

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1	$ 22.29	17.10
GROUP 2	$ 23.94	17.10
GROUP 3	$ 26.57	17.25

CEMENT MASONS - work inside the building line, meeting the following criteria:

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 07/01/2014

	Rates	Fringes

PLUMBER, PIPEFITTER,
STEAMFITTER
Camp Pendleton.....$ 49.21 20.36
Plumber and Pipefitter
All other work except
work on new additions and
remodeling of bars,
restaurant, stores and
commercial buildings not
to exceed 5,000 sq. ft.
of floor space and work
on strip malls, light
commercial, tenant
improvement and remodel
work.....$ 44.71 20.36
Work ONLY on new additions
and remodeling of
commercial buildings,
bars, restaurants, and
stores not to exceed 5,000
sq. ft. of floor space.....$ 43.33 19.38
Work ONLY on strip malls,
light commercial, tenant
improvement and remodel
work.....$ 34.59 17.71

PLUM0016-011 07/01/2014

Rates Fringes

PLUMBER/PIPEFITTER
Residential.....$ 36.15 16.28

PLUM0345-001 07/01/2014

Rates Fringes

PLUMBER
Landscape/Irrigation Fitter.$ 29.27 19.75
Sewer & Storm Drain Work....$ 33.24 17.13

ROOF0045-001 07/01/2012

Rates Fringes

ROOFER.....$ 25.08 7.28

SFCA0669-001 07/01/2013

	Rates	Fringes
SPRINKLER FITTER	$ 34.86	18.66

SHEE0206-001 01/01/2012

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton	$ 35.05	19.23
Except Camp Pendleton	$ 33.05	19.23
Sheet Metal Technician	$ 25.22	6.69

SHEET METAL TECHNICIAN - SCOPE:
a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system b. New single family residential buildings including tracts. c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under $1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

---

TEAM0036-001 07/01/2012

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 15.40	20.50
GROUP 2	$ 24.99	20.50
GROUP 3	$ 25.19	20.50
GROUP 4	$ 25.39	20.50
GROUP 5	$ 25.59	20.50
GROUP 6	$ 26.09	20.50
GROUP 7	$ 27.59	20.50

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed,Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the

wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISION

PROPOSAL (BID)

The Bidder agrees to the construction of **University Ave Pipeline Replacement**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at $500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
BASE BID							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)		$
2	1	LS	237310	7-10.2.6	Traffic Control		$
3	1	LS	237110	9-3.4.1	Mobilization		$
4	1	AL		9-3.5	Field Orders - Type II		$500,000.00
5	1	AL	541820	7-16.8	Exclusive Community Liaison Services		$250,000.00
6	1	LS	237310	306-1.1.6	Trench Sheeting, Shoring, and Bracing		$
7	100	CY	237110	306-1.2.1.1	Additional Bedding	$	$
8	950,000	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Striping	$	$
9	1,040	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	$	$
10	1	LS	238210	307-2	Remove and Replace Lighted Crosswalk		$
11	86	EA	237310	303-5.10.2	Curb Ramp Type A with Stainless Steel Detectable Warning Tiles	$	$
12	13	EA	237310	303-5.10.2	Curb Ramp Type B with Stainless Steel Detectable Warning Tiles	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
13	10	EA	237310	303-5.10.2	Curb Ramp Type C1 with Stainless Steel Detectable Warning Tiles	$	$
14	8	EA	237310	303-5.10.2	Curb Ramp Type C2 with Stainless Steel Detectable Warning Tiles	$	$
15	56	EA	237310	303-5.10.2	Curb Ramp Type D with Stainless Steel Detectable Warning Tiles	$	$
16	1	EA	237310	303-5.10.2	Curb Ramp Case A with Stainless Steel Detectable Warning Tiles	$	$
17	4	EA	237310	303-5.10.2	Curb Ramp Type C (Case E) with Detectable Warning Tiles	$	$
18	207	LF	237110	306-1.6	36-Inch Steel Water Main	$	$
19	32	LF	237110	306-1.6	24-Inch Steel Water Main	$	$
20	20,572	LF	237110	306-1.6	16-Inch Water Main Class 305	$	$
21	4,046	LF	237110	306-1.6	12-Inch Water Main Class 305	$	$
22	222	LF	237110	306-2.6	16-Inch Steel Water Main in 24" Steel Casing (Robinson)	$	$
23	80	LF	237110	306-1.6	12-Inch Steel Water Main (University)	$	$
24	712	LF	237110	306-1.6	8-Inch Water Main Class 305	$	$
25	46	EA	237110	306-1.6	Fire Hydrant Assembly	$	$
26	6	EA	237110	306-1.6	4-Inch Fire Service Connection	$	$
27	1	EA	237110	306-1.6	6-Inch Fire Service Connection	$	$
28	2	EA	237110	306-1.6	8-Inch Fire Service Connection	$	$
29	2	EA	237110	306-1.6	36-Inch Butterfly Valve Class 250B with By-Pass & 4" Gate Valve	$	$
30	1	EA	237110	306-1.6	24-Inch Butterfly Valve Class 250B	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
31	162	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	$	$
32	2	EA	237110	306-2.3.1	Tunnel Shafts - (Launching Shaft = 40' Long x 15' Wide x 45' Deep), (Receiving Shaft = 10' Diameter x 60' Deep)	$	$
33	360	LF	237110	306-2.3.1	Robinson Tunnel- Complete (16" Steel Water Main in 36" Steel Casing)	$	$
34	1	LS	561730	308-7	Landscape and Irrigation - CALTRANS Right of Way		$
35	1	LS	561730	308-7	Tree Removal, Trimming, Root Pruning, Root Barrier		$
36	1	LS	561730	308-7	Professional Arborist		$
37	1	LS	561730	308-7	3-Year Landscape, Irrigation and Trees Maintenance in CALTRANS Right of Way		$
38	360	LF	237110	306-1.9	University Bridge Crossing (Dual 12" Steel Water Pipe in 16" Steel Casing)	$	$
39	1	LS	238190	306-1.6	Cathodic Protection		$
40	4,570	LF	237110	306-5.3	Large Water Main Abandonment	$	$
41	240	EA	237110	306-14.1	1 Inch Water Service	$	$
42	10	EA	237110	306-14.1	1 Inch Water Service Transfer	$	$
43	53	EA	237110	306-14.1	2 Inch Water Service	$	$
44	5	EA	237110	306-14.1	2 Inch Water Service Transfer	$	$
45	19	EA	237110	306-18	4-Inch Blowoff Valve Assembly	$	$
46	1	EA	237110	306-18	Blow-off Sta. 84+66.00 (Robinson Tunnel)	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
47	25	EA	237110	306-19	2-Inch Air & Vacuum Assemblies, Class 250	$	$
48	1	LS	541330	701-13.9.5	Water Pollution Control Program Development		$
49	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation		$
50	4,000	LF	541690	707-3	Paleontological Monitoring Program	$	$
51	1	AL	541690	707-4	Archeological and Native American Mitigation and Curation - Type I		$10,000.00
52	100	CY	541690	707-5	Paleontological Mitigation and Excavation	$	$
53	46,200	LF	237110	600-1.2.2.10	High-lining by the Contractor	$	$
54	46,200	LF	237110	600-1.2.1.3	High-lining Removed by Contractor	$	$
55	1,659	CY	237110	306-1.6	Imported Backfill	$	$
56	1	AL	238210	306-13	Verizon Fiber Optic Relocation – Type I		$100,102.00
57	1	LS	238990	703-20	Preparation of Hazardous Waste Management Plan and Reporting		$
58	20	TON	238990	703-20	Monitoring, Testing, Sampling Site Storage and Handling of Soils Containing Non-RCRA Hazardous Waste	$	$
59	20	TON	238990	703-20	Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste	$	$
60	314	EA	237310	302-1.12	Traffic Detector Loop Replacement	$	$
61	1	LS	238210	307-2	Traffic Signal Relocations (Intersections of Robinson and Sixth; University and Texas)		$
62	20	EA	238210	307-2	Pedestrian Push Buttons	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
63	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions		$
64	1	AL	237310	7-10.2.6	Portable Changeable Message Signs (PCMS) - Type I		$6,500.00
65	1	LS	237310	4-1.3.4	Special Inspection and Testing of Field Welds		$
66	570	LF	238910	300-1.4	Removal and Disposal of Railroad Tracks	$	$
67	100	CY	237310	300-1.4	Additional Pavement Removal & Disposal	$	$
68	1,500	SF	237310	302-3.2	Asphalt Pavement Repair	$	$
69	1,500	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	$	$
70	1,945	SY	237310	302-7.4	Pavement Fabric	$	$
71	896	TON	237310	306-1.5.1	Temporary Resurfacing	$	$
72	25,000	SF	237310	302-1.12	Cold Mill AC Pavement (0 - 1 1/2")	$	$
73	500	LB	237310	302-14.5	Crack Seal	$	$
74	200	LF	237310	303-5.9	Additional Curb and Gutter	$	$
75	10	EA	237310	303-5.9	Contractor Date Stamp and Impressions	$	$
76	1,000	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	$	$
77	165	EA	237110	306-1.6	Thrust Blocks and Anchor Blocks	$	$
78	1	EA	237110	306-1.6	6-Inch Gate Valve	$	$
79	12	EA	237110	306-1.6	8-Inch Gate Valve	$	$
80	82	EA	237110	306-1.6	12-Inch Gate Valve	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
81	9	EA	237110	306-5.3	Removal of Abandoned Water Meter Box	$	$
82	20	EA	238210	307-2	Pedestrian Barricade SDE-103	$	$
83	6	EA	238210	307-2	Pedestrian Railing Barricade	$	$
84	2,065	LF	237110	708-6	Handling and Disposal of Non-friable Asbestos Material	$	$
85	4	EA	237110	207-10.2.5	12-Inch Double Ball Flexible Expansion Joint	$	$
86	1	LS	237110	207-10.2.5	Potholing		$
87	1	LS	237110	7-10.2.6	Traffic Control Design		$
88	1	LS	237110	7-8.3	Mitigation of Noise During Nighttime Operations		$
89	20	EA	237110	306-5.3	Removal of Valves on Abandoned Pipe and Restoration of Pavement	$	$
90	2	EA	237110	600-1.4.9	4-Inch Cut and Plug by Contractor	$	$
91	15	EA	237110	600-1.4.9	6-Inch Cut and Plug by Contractor	$	$
92	13	EA	237110	600-1.4.9	8-Inch Cut and Plug by Contractor	$	$
93	4	EA	237110	600-1.4.9	12-Inch Cut and Plug by Contractor	$	$
94	7	EA	237110	600-1.4.9	16-Inch Cut and Plug by Contractor	$	$
95	2	EA	237110	600-1.4.9	20-Inch Cut and Plug by Contractor	$	$
96	25	EA	237110	600-1.4.9	24-Inch Cut and Plug by Contractor	$	$
97	8	EA	237110	600-1.4.9	30-Inch Cut and Plug by Contractor	$	$
98	1	EA	237110	600-1.3.2.10	4-Inch Connections to the Existing System by Contractor	$	$

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
99	15	EA	237110	600-1.3.2.10	6-Inch Connections to the Existing System by Contractor	$	$
100	49	EA	237110	600-1.3.2.10	8-Inch Connections to the Existing System by Contractor	$	$
101	1	EA	237110	600-1.3.2.10	10-Inch Connections to the Existing System by Contractor	$	$
102	32	EA	237110	600-1.3.2.10	12-Inch Connections to the Existing System by Contractor	$	$
103	4	EA	237110	600-1.3.2.10	16-Inch Connections to the Existing System by Contractor	$	$
104	1	EA	237110	600-1.3.2.10	20-Inch Connections to the Existing System by Contractor	$	$
105	3	EA	237110	600-1.3.2.10	36-Inch Connections to the Existing System by Contractor	$	$
106	1	EA	237110	600-1.3.2.10	48-Inch Connections to the Existing System by Contractor	$	$
107	25	EA	237110	303-5.9	Contractor Date Stamp and Impressions	$	$
108	5	EA	237110	306-1.1.1	Temporary Connections to Existing System	$	$
109	200	CY	237110	303-5.10.2	Imported Backfill for Curb Ramp Construction	$	$
110	1	AL	237110	9-3.1	Allowance for Additional Work Within Caltrans ROW at University Avenue Bridge Crossing and at Robinson Avenue Bridge Crossing/Tunnel		$350,000.00
111	55	EA	237110	306-1.6	16-Inch Butterfly Valve Bypass Assembly	$	$
						ESTIMATED TOTAL BASE BID:	**$**

TOTAL BID PRICE FOR BID (Items 1 through 111, inclusive) amount written in words:

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: _____

The names of all persons interested in the foregoing proposal as principals are as follows:

_____

_____

_____

_____

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

Bidder: _____

Title: _____

Business Address: _____

Place of Business: _____

Place of Residence: _____

Signature: _____

NOTES:

A. The City shall determine the low Bid based on the Base Bid alone.

B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.

C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.

D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.

E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.

F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.

G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.

H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

I. Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

12/2/14 CN
valid

Purchasing and Contracting Department
Contracting Division
1200 Third Avenue, Suite 200
San Diego, CA 92101
(619) 236-6000

THE CITY OF SAN DIEGO

FAX TRANSMITTAL

Date: December 1, 2014

The following 8 pages (including this cover) are intended for:

To:	**Estimator**	**From:**	**Celia Navarro**
Company:	**Burtech Pipeline Incorp**	**Division:**	**Contracting Group**
Email #	**buddy@burtechpipeline.com**	**FAX #**	**619-533-3633**
Phone #	**(760) 634-2822**	**Phone #**	**619-533-3431**

RE: Bid # K-15-5716-DBB-3 – University Ave Pipeline Replacement

COMMENTS:

In tabulating the bid results of subject project, we have found that the ESTIMATED TOTAL BASE BID is **$19,354,365.00** NOT **$19,472,769.00** as per your bid.

Please FAX or Email acknowledgement/concurrence of the correct amount, by 4:00pm today.

If there are any problems with receiving this FAX transmission (such as missing pages), please contact the Sender at the "From" phone number given above.

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED, AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW, RECEIPT BY AN UNINTENDED RECIPIENT DOES NOT CONSTITUTE A WAIVER OF ANY APPLICABLE PRIVILEGE.

If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us at the above address via the U.S. Postal Service.

City of San Diego

CONTRACTOR'S NAME: BURTECH PIPELINE INCORPORATED
ADDRESS: 102 SECOND STREET, ENCINITAS, CA 92024
TELEPHONE NO.: (760) 634-2822 **FAX NO.:** (760) 634-2415
CITY CONTACT: Damian Singleton, Contract Specialist, Email: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633
MBajoua/BDoringo/egz

CONTRACT DOCUMENTS

FOR

UNIVERSITY AVE PIPELINE REPLACEMENT

VOLUME 2 OF 2

BID NO.: K-15-5716-DBB-3
SAP NO. (WBS/IO/CC): S-11021
CLIENT DEPARTMENT: 2013
COUNCIL DISTRICT: 3
PROJECT TYPE: KA

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- PHASED-FUNDING.
- FEDERAL EQUAL OPPORTUNITY CONTRACTING REQUIREMENTS.
- APPRENTICESHIP.
- PREVAILING WAGE RATES: STATE ☒ FEDERAL ☒
- THIS IS A SDWSRF FUNDED CONTRACT THROUGH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH.

THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY
REFER TO VOLUME 1 COVER PAGE FOR TIME, DATE, AND LOCATION

TABLE OF CONTENTS

DESCRIPTION **PAGE NUMBER**

Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Include the form(s) even if the information does not apply. Where the information does not apply write in N/A. Failure to include any of the forms may cause the Bid to be deemed **non-responsive.** If you are uncertain or have any questions about any required information, contact the City no later than 14 days prior to Bid due date.

1. Bid/Proposal 3
2. Bid Bond 6
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106 7
4. Contractors Certification of Pending Actions 8
5. Equal Benefits Ordinance Certification of Compliance 9
6. Lobby Prohibition, Certification and Disclosure 10
7. Instructions for Completion of SF-LLL, Disclosure of Lobbying Activities 11
8. Disclosure of Lobbying Activities 12
9. Proposal (Bid) 14
10. Form AA35 - List of Subcontractors 21
11. Form AA40 - Named Equipment/Material Supplier List 22
12. EPA FORM 6100-3 – DBE Subcontractor Performance Form 23
13. EPA FORM 6100-4 – DBE Subcontractor Utilization Form 25

PROPOSAL

Bidder's General Information

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

(1) Name under which business is conducted_____

(2) Signature (Given and surname) of proprietor _____

(3) Place of Business (Street & Number) _____

(4) City and State _____ Zip Code _____

(5) Telephone No. _____ Facsimile No._____

(6) Email Address _____

IF A PARTNERSHIP, SIGN HERE:

(1) Name under which business is conducted _____

(2) Name of each member of partnership, indicate character of each partner, general or special (limited):

_____

_____

(3) Signature (Note: Signature must be made by a general partner)

_____

Full Name and Character of partner

_____

_____

(4) Place of Business (Street & Number) _____

(5) City and State _____ Zip Code _____

(6) Telephone No. _____ Facsimile No. _____

(7) Email Address _____

IF A CORPORATION, SIGN HERE:

(1) Name under which business is conducted BURTECH PIPELINE INCORPORATED

(2) Signature, with official title of officer authorized to sign for the corporation:

_____
(Signature)

DOMINIC J. BURTECH
(Printed Name)

PRESIDENT & CEO
(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of CALIFORNIA

(4) Place of Business (Street & Number) 102 SECOND STREET

(5) City and State ENCINITAS, CALIFORNIA Zip Code 92024

(6) Telephone No. (760) 634-2822 Facsimile No. (760) 634-2415

(7) Email Address buddy@burtechpipeline.com

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "**NOTICE INVITING BIDS**", the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION CLASS A

LICENSE NO. 718202 EXPIRES JANUARY 31 , 2016

This license classification must also be shown on the front of the bid envelope. Failure to show license classification on the bid envelope may cause return of the bid unopened.

TAX IDENTIFICATION NUMBER (TIN): [redacted]

Email Address: buddy@burtechpipeline.com

THIS PROPOSAL MUST BE NOTARIZED BELOW:

I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature _____ Title PRESIDENT & CEO

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 20 DAY OF Nov , 2014.

Notary Public in and for the County of San Diego, State of CA

_____

(NOTARIAL SEAL)

ARTHUR P. ARQUILLA
Commission No. 2051358
NOTARY PUBLIC - CALIFORNIA
SAN DIEGO COUNTY
Commission Expires January 7, 2018

BID BOND

KNOW ALL MEN BY THESE PRESENTS,

That BURTECH PIPELINE, INCORPORATED as Principal, and

NORTH AMERICAN SPECIALTY INSURANCE COMPANY as Surety, are held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of 10% OF THE TOTAL BID AMOUNT for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled

UNIVERSITY AVE. PIPELINE REPLACEMENT, BID NO. K-15-5716-DBB-3

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form of agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 4TH day of NOVEMBER, 20 14

BURTECH PIPELINE, INCORPORATED (SEAL)	NORTH AMERICAN SPECIALTY INSURANCE COMPANY (SEAL)
(Principal)	(Surety)
By: _____	By: _____
(Signature)	(Signature)
DOMINIC J. BURTECH, JR., PRESIDENT	MARK D. IATAROLA, ATTORNEY-IN-FACT

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

County of SAN DIEGO }

On 11/04/2014 (Date) before me, GLENDA J. ROONEY, NOTARY PUBLIC (Here Insert Name and Title of the Officer),

personally appeared MARK D. IATAROLA (Name(s) of Signer(s)),

who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature Glenda J Rooney (Signature of Notary Public)

OFFICIAL SEAL
GLENDA J. ROONEY
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2012529
SAN DIEGO COUNTY
MY COMM. EXP. MAR. 16, 2017

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: MARK D. IATAROLA
- ☐ Individual
- ☐ Corporate Officer — Title(s): _____
- ☐ Partner — ☐ Limited ☐ General
- ☑ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name: _____
- ☐ Individual
- ☐ Corporate Officer — Title(s): _____
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

© 2007 National Notary Association • 9350 De Soto Ave., P.O. Box 2402 • Chatsworth, CA 91313-2402 • www.NationalNotary.org Item #5907 Reorder: Call Toll-Free 1-800-876-6827

NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schaumburg, Illinois, each does hereby make, constitute and appoint:

JOHN G. MALONEY, HELEN MALONEY, MICHELLE M. BASUIL,
GLENDA J. ROONEY, and MARK D. IATAROLA
JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION ($50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 9th of May, 2012:

"RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."

NORTH AMERICAN SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1973 NEW HAMPSHIRE

By _____
Steven P. Anderson, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company

By _____
David M. Layman, Vice President of Washington International Insurance Company
& Vice President of North American Specialty Insurance Company

WASHINGTON INTERNATIONAL INSURANCE COMPANY CORPORATE SEAL NEW HAMPSHIRE

IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 9th day of May, 2014.

North American Specialty Insurance Company
Washington International Insurance Company

State of Illinois
County of Cook ss:

On this 9th day of May, 2014, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and David M. Layman, Vice President of Washington International Insurance Company and Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.

"OFFICIAL SEAL"
DONNA D. SKLENS
Notary Public, State of Illinois
My Commission Expires 10/06/2015

Donna D. Sklens, Notary Public

I, Jeffrey Goldberg, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 4TH day of NOVEMBER, 2014.

Jeffrey Goldberg, Vice President & Assistant Secretary of
Washington International Insurance Company & North American Specialty Insurance Company

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California)

) ss.

County of SAN DIEGO)

DOMINIC J. BURTECH, being first duly sworn, deposes and says that he ~~or she~~ is PRESIDENT & CEO of the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Signed: _____

Title: PRESIDENT & CEO

Subscribed and sworn to before me this 20 day of Nov, 2014

_____
Notary Public

(SEAL)

ARTHUR P. ARQUILLA
Commission No. 2051358
NOTARY PUBLIC - CALIFORNIA
SAN DIEGO COUNTY
Commission Expires January 7, 2018

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California
County of San Diego }

On 11/20/14 (Date) before me, **Arthur P. Arquilla, Notary Public** (Here Insert Name and Title of the Officer),

personally appeared Dominic Burtech (Name(s) of Signer(s))

ARTHUR P. ARQUILLA
Commission No. 2051358
NOTARY PUBLIC - CALIFORNIA
SAN DIEGO COUNTY
Commission Expires January 7, 2018

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Signature of Notary Public)

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name: _____
☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

© 2007 National Notary Association • 9350 De Soto Ave., P.O Box 2402 • Chatsworth, CA 91313-2402 • www.NationalNotary.org Item #5907 Reorder: Call Toll-Free 1-800-876-6827

CONTRACTORS CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

☒ The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.

☐ The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

Date of Claim	Location	Description of Claim	Litigation (Y/N)	Status	Resolution/Remedial Action Taken

Contractor Name: BURTECH PIPELINE INCORPORATED

Certified By DOMINIC J. BURTECH Title PRESIDENT & CEO

Name

Signature Date 11/21/14

USE ADDITIONAL FORMS AS NECESSARY

EQUAL BENEFITS ORDINANCE CERTIFICATION OF COMPLIANCE

For additional information, contact:
CITY OF SAN DIEGO
EQUAL BENEFITS PROGRAM
202 C Street, MS 9A, San Diego, CA 92101
Phone (619) 533-3948 Fax (619) 533-3220

COMPANY INFORMATION

Company Name: BURTECH PIPELINE INCORPORATED	Contact Name: DOMINIC J. BURTECH
Company Address: 102 Second Street, Encinitas, CA 92024	Contact Phone: (760) 634-2822
	Contact Email: buddy@burtechpipeline.com

CONTRACT INFORMATION

Contract Title: UNIVERSITY AVENUE PIPELINE REPLACEMENT	Start Date: JAN. 2015
Contract Number (if no number, state location): K-15-5716-DBB-3	End Date: JULY 2017

SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
  - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
  - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at *www.sandiego.gov/administration.*

CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION

Please indicate your firm's compliance status with the EBO. The City may request supporting documentation.

☒ I affirm **compliance** with the EBO because my firm *(contractor must select one reason):*

- ☒ Provides equal benefits to spouses and domestic partners.
- ☐ Provides no benefits to spouses or domestic partners.
- ☐ Has no employees.
- ☐ Has collective bargaining agreement(s) in place prior to January 1, 2011, that has not been renewed or expired.

☐ I request the City's approval to pay affected employees a cash equivalent in lieu of equal benefits and verify my firm made a reasonable effort but is not able to provide equal benefits upon contract award. I agree to notify employees of the availability of a cash equivalent for benefits available to spouses but not domestic partners and to continue to make every reasonable effort to extend all available benefits to domestic partners.

It is unlawful for any contractor to knowingly submit any false information to the City regarding equal benefits or cash equivalent associated with the execution, award, amendment, or administration of any contract. [San Diego Municipal Code §22.4307(a)]

Under penalty of perjury under laws of the State of California, I certify the above information is true and correct. I further certify that my firm understands the requirements of the Equal Benefits Ordinance and will provide and maintain equal benefits for the duration of the contract or pay a cash equivalent if authorized by the City.

DOMINIC J. BURTECH - PRESIDENT & CEO		11/21/14
Name/Title of Signatory	Signature	Date

FOR OFFICIAL CITY USE ONLY

Receipt Date:	EBO Analyst:	☐ Approved	☐ Not Approved – Reason:

(Rev 02/15/2011)

LOBBY PROHIBITION, CERTIFICATION AND DISCLOSURE

In acknowledgment that funds received under this agreement have been provided pursuant to a Federal grant, recipient hereby recognizes the prohibitions against lobbying the Federal government with any of these funds. Recipient agrees that it shall comply with the laws set forth at 31 U.S.C. § 1352 (1989) and 24 C.F.R. part 87, to wit:

A. Conditions on use of funds

Recipient shall not expend any funds received pursuant to this agreement to pay any person to influence an officer or employee of Federal agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with any of the following Covered Federal actions:

(1) The awarding of any federal contract
(2) The making of any Federal grant
(3) The making of any Federal Loan
(4) The entering into of any cooperative agreement
(5) The extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

For purposes of defining the terms of this part of the agreement, the definitions set forth in 24 C.F.R. § 87.105 are hereby adopted and incorporated herein by reference.

B. Certification and Disclosure

Each recipient at every tier under this agreement shall file a certification regarding lobbying, and a Disclosure Form-LLL, where required by 24 C.F.R. § 87.110. The certification form and Disclosure Form-LLL are attached to this agreement.

C. Certifications must be filed:

(1) By any person upon each submission that initiates agency consideration for an award of a Federal contract, grant, or cooperative agreement exceeding $100,000, or a Federal loan or loan guarantee exceeding $150,000.
(2) Upon receipt by any person of a Federal contract, grant, or cooperative agreement exceeding $100,000, or upon receipt of a Federal loan or loan guarantee exceeding $150,000.
(3) By any person who requests or receives from a person referred to in subsections 1 and 2 of this paragraph:
    a. A subcontract exceeding $100,000 at any tier under a Federal contract;
    b. A subgrant, contract or subcontract exceeding $100,000 at any tier under a Federal grant;
    c. A contract or subcontract exceeding $100,000 at any tier under a Federal loan exceeding $150,000;
    d. A contract or subcontract exceeding $100,000 at any tier under a Federal cooperative agreement.

D. Disclosure Forms-LLL must be filed in every instance when a person applies for, requests, or receives Federal appropriations exceeding $100,000 pursuant to a contract, subcontract, grant, subgrant, loan, or cooperative agreement when such person has paid or expects to pay any sum, in cash or in kind, to influence or attempt to influence any officer or employee of an agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress. Further, Disclosure Form-LLL must be filed by recipients at any tier at the end of each calendar quarter in which there occurs any event that requires disclosure or materially affects information submitted in prior disclosures. Such events include:

(1) 1. An increase of $25,000 in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action;
(2) 2. A change in the person(s) influencing or attempting to influence a covered action;
(3) 3. A change in the officer(s), employee(s), or member(s) contacted to influence a covered action.

All disclosure Forms-LLL, but not certifications, shall be forwarded from tier to tier until received by the principal recipient, which in turn will file them with the appropriate Federal agency.

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Use the SF-LLLA Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing there port in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.

    (b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item4) to the lobbying entity (item10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the date(s) of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with Federal officials. Identify the Federal official(s) or employee(s) contacted or the officer(s), employee(s), or Member(s) of Congress that were contacted.
15. Check whether or not a SF-LLLA Continuation Sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing datasources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

DISCLOSURE OF LOBBYING ACTIVITIES Approved by OMB

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 0348-0046

(See reverse for public burden disclosure)

1. Type of Federal Action:	2. Status of Federal Action:	3. Report Type:
☒ a. Contract a. Grant b. Cooperative agreement c. Loan d. Loan guarantee e. Loan insurance	☒ a. bid/offer/application b. initial award c. post-award	☐ a. initial finding b. material change **For Material Change Only** year_____ quarter _____ date of last report_____

4. Name and Address of Reporting Entity:	5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime:
☒ Prime ☐ Subawardee Tier _____, *if known:* BURTECH PIPELINE INCORPORATED 102 Second St., Encinitas, CA 92024 Congressional District, *if known:*	Congressional District, *if known:*
6. Federal Department/Agency: California Department of Public Health	**7. Federal Program Name/Description:** Safe Drinking Water State Revolving Fund (SDWSRF) CFDA Number, *if applicable:* _____
8. Federal Action Number, if known:	**9. Award Amount,** if known: $ 19,472,769.00
10. a. Name and Address of Lobbying Entity (if individual, last name, first name, M)	**b. Individuals Performing Services** (including address if different from No. 10a) (last name, first name, MI):

(attach Continuation Sheet(s) SF-LLL4, *if necessary*)

11. Amount of Payment (check all that apply)	13. Type of Payment (check all that apply)
$_____ ☐ actual ☐ planned	☐ a. retainer ☐ b. one-time lee ☐ c. commission ☐ d. contingent fee ☐ e. deferral ☐ f. other: specify:_____
12. Form of Payment (check all that apply) ☐ a, cash ☐ b. in-kind: specify: nature _____ Value_____	

14. Brief Description of Services Performed or to be Performed and Date(s) of Service, Including officer(s), employee(s), or Member(s), contacted, for Payment indicated in item 11:

(attach Continuation Sheet(s) SF-LLLA, *if necessary*)

15. Continuation Sheet(s) SF-LLLA attached: ☐ Yes ☒ No

16.	Information requested through this for misauthorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less that $10,000 and not more than $100,000 for each such failure.	Signature: _____ Print Name: Dominic J. Burtech Title: President & CEO Telephone No.: 760-634-2822 Date: 11/21/16

Federal Use Only: Authorized for Local Reproduction Standard Form LLL (Rev. 7-07)

DISCLOSURE OF LOBBYING ACTIVITIES Approved by
CONTINUATION SHEET OMB0348-0046

Reporting Entity: Burtech Pipeline Incorporated Page 1 of 1

"NOT APPLICABLE"

Authorized for Local Reproduction
Standard Form - LLL-A

PROPOSAL (BID)

The Bidder agrees to the construction of **University Ave Pipeline Replacement**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at $500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
BASE BID							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)		$ 120,000.00
2	1	LS	237310	7-10.2.6	Traffic Control		$ 450,000.00
3	1	LS	237110	9-3.4.1	Mobilization		$ 250,000.00
4	1	AL		9-3.5	Field Orders - Type II		$500,000.00
5	1	AL	541820	7-16.8	Exclusive Community Liaison Services		$250,000.00
6	1	LS	237310	306-1.1.6	Trench Sheeting, Shoring, and Bracing		$ 140,000.00
7	100	CY	237110	306-1.2.1.1	Additional Bedding	$ 1.00	$ 100.00
8	950,000	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Striping	$ 0.45	$ 427,500.00
9	1,040	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	$ 1.15	$ 1,196.00 ~~119,600.00~~
10	1	LS	238210	307-2	Remove and Replace Lighted Crosswalk		$ 17,300.00
11	86	EA	237310	303-5.10.2	Curb Ramp Type A with Stainless Steel Detectable Warning Tiles	$ 3,150.00	$ 270,900.00
12	13	EA	237310	303-5.10.2	Curb Ramp Type B with Stainless Steel Detectable Warning Tiles	$ 3,250.00	$ 42,250.00

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
13	10	EA	237310	303-5.10.2	Curb Ramp Type C1 with Stainless Steel Detectable Warning Tiles	$ 3,310.00	$ 33,100.00
14	8	EA	237310	303-5.10.2	Curb Ramp Type C2 with Stainless Steel Detectable Warning Tiles	$ 3,350.00	$ 26,800.00
15	56	EA	237310	303-5.10.2	Curb Ramp Type D with Stainless Steel Detectable Warning Tiles	$ 2,750.00	$ 154,000.00
16	1	EA	237310	303-5.10.2	Curb Ramp Case A with Stainless Steel Detectable Warning Tiles	$ 3,250.00	$ 3,250.00
17	4	EA	237310	303-5.10.2	Curb Ramp Type C (Case E) with Detectable Warning Tiles	$ 3,310.00	$ 13,240.00
18	207	LF	237110	306-1.6	36-Inch Steel Water Main	$ 1,164.00	$ 240,948.00
19	32	LF	237110	306-1.6	24-Inch Steel Water Main	$ 1,063.00	$ 34,016.00
20	20,572	LF	237110	306-1.6	16-Inch Water Main Class 305	$ 216.00	$ 4,443,552.00
21	4,046	LF	237110	306-1.6	12-Inch Water Main Class 305	$ 179.00	$ 724,234.00
22	222	LF	237110	306-2.6	16-Inch Steel Water Main in 24" Steel Casing (Robinson)	$ 1,034.00	$ 229,548.00
23	80	LF	237110	306-1.6	12-Inch Steel Water Main (University)	$ 1,926.00	$ 154,080.00
24	712	LF	237110	306-1.6	8-Inch Water Main Class 305	$ 136.00	$ 96,832.00
25	46	EA	237110	306-1.6	Fire Hydrant Assembly	$ 11,025.00	$ 507,150.00
26	6	EA	237110	306-1.6	4-Inch Fire Service Connection	$ 8,200.00	$ 49,200.00
27	1	EA	237110	306-1.6	6-Inch Fire Service Connection	$ 8,250.00	$ 8,250.00
28	2	EA	237110	306-1.6	8-Inch Fire Service Connection	$ 9,850.00	$ 19,700.00
29	2	EA	237110	306-1.6	36-Inch Butterfly Valve Class 250B with By-Pass & 4" Gate Valve	$ 25,000.00	$ 50,000.00
30	1	EA	237110	306-1.6	24-Inch Butterfly Valve Class 250B	$ 13,000.00	$ 13,000.00

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
31	162	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	$8,550.00	$1,385,100.00
32	2	EA	237110	306-2.3.1	Tunnel Shafts - (Launching Shaft = 40' Long x 15' Wide x 45' Deep), (Receiving Shaft = 10' Diameter x 60' Deep)	$210,000.00	$420,000.00
33	360	LF	237110	306-2.3.1	Robinson Tunnel- Complete (16" Steel Water Main in 36" Steel Casing)	$1,603.00	$577,080.00
34	1	LS	561730	308-7	Landscape and Irrigation - CALTRANS Right of Way		$25,000.00
35	1	LS	561730	308-7	Tree Removal, Trimming, Root Pruning, Root Barrier		$25,000.00
36	1	LS	561730	308-7	Professional Arborist		$20,000.00
37	1	LS	561730	308-7	3-Year Landscape, Irrigation and Trees Maintenance in CALTRANS Right of Way		$50,000.00
38	360	LF	237110	306-1.9	University Bridge Crossing (Dual 12" Steel Water Pipe in 16" Steel Casing)	$750.00	$270,000.00
39	1	LS	238190	306-1.6	Cathodic Protection		$45,000.00
40	4,570	LF	237110	306-5.3	Large Water Main Abandonment	$ 18.00	$ 82,260.00
41	240	EA	237110	306-14.1	1 Inch Water Service	$ 3,996.00	$ 959,040.00
42	10	EA	237110	306-14.1	1 Inch Water Service Transfer	$ 800.00	$ 8,000.00
43	53	EA	237110	306-14.1	2 Inch Water Service	$ 5,300.00	$ 280,900.00
44	5	EA	237110	306-14.1	2 Inch Water Service Transfer	$ 1,000.00	$ 5,000.00
45	19	EA	237110	306-18	4-Inch Blowoff Valve Assembly	$ 8,150.00	$ 154,850.00
46	1	EA	237110	306-18	Blow-off Sta. 84+66.00 (Robinson Tunnel)	$ 5,900.00	$ 5,900.00

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
47	25	EA	237110	306-19	2-Inch Air & Vacuum Assemblies, Class 250	$ 6,600.00	$ 165,000.00
48	1	LS	541330	701-13.9.5	Water Pollution Control Program Development		$ 1,000.00
49	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation		$ 45,000.00
50	4,000	LF	541690	707-3	Paleontological Monitoring Program	$ 5.00	$ 20,000.00
51	1	AL	541690	707-4	Archeological and Native American Mitigation and Curation - Type I		$10,000.00
52	100	CY	541690	707-5	Paleontological Mitigation and Excavation	$ 10.00	$ 1,000.00
53	46,200	LF	237110	600-1.2.2.10	High-lining by the Contractor	$ 25.00	$ 1,155,000.00
54	46,200	LF	237110	600-1.2.1.3	High-lining Removed by Contractor	$ 1.25	$ 57,750.00
55	1,659	CY	237110	306-1.6	Imported Backfill	$ 5.00	$ 8,295.00
56	1	AL	238210	306-13	Verizon Fiber Optic Relocation – Type I		$100,102.00
57	1	LS	238990	703-20	Preparation of Hazardous Waste Management Plan and Reporting		$ 8,000.00
58	20	TON	238990	703-20	Monitoring, Testing, Sampling Site Storage and Handling of Soils Containing Non-RCRA Hazardous Waste	$ 200.00	$ 4,000.00
59	20	TON	238990	703-20	Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste	$ 400.00	$ 8,000.00
60	314	EA	237310	302-1.12	Traffic Detector Loop Replacement	$ 500.00	$ 157,000.00
61	1	LS	238210	307-2	Traffic Signal Relocations (Intersections of Robinson and Sixth; University and Texas)		$ 40,000.00
62	20	EA	238210	307-2	Pedestrian Push Buttons	$ 2,500.00	$ 50,000.00

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
63	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions		$ 6,000.00
64	1	AL	237310	7-10.2.6	Portable Changeable Message Signs (PCMS) - Type I		$6,500.00
65	1	LS	237310	4-1.3.4	Special Inspection and Testing of Field Welds		$ 30,000.00
66	570	LF	238910	300-1.4	Removal and Disposal of Railroad Tracks	$ 60.00	$ 34,200.00
67	100	CY	237310	300-1.4	Additional Pavement Removal & Disposal	$ 100.00	$ 10,000.00
68	1,500	SF	237310	302-3.2	Asphalt Pavement Repair	$ 15.00	$ 22,500.00
69	1,500	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	$ 15.00	$ 22,500.00
70	1,945	SY	237310	302-7.4	Pavement Fabric	$ 4.60	$ 8,947.00
71	896	TON	237310	306-1.5.1	Temporary Resurfacing	$ 120.00	$ 107,520.00
72	25,000	SF	237310	302-1.12	Cold Mill AC Pavement (0 - 1 1/2")	$ 0.47	$ 11,750.00
73	500	LB	237310	302-14.5	Crack Seal	$ 16.00	$ 8,000.00
74	200	LF	237310	303-5.9	Additional Curb and Gutter	$ 45.00	$ 9,000.00
75	10	EA	237310	303-5.9	Contractor Date Stamp and Impressions	$ 300.00	$ 3,000.00
76	1,000	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	$ 7.50	$ 7,500.00
77	165	EA	237110	306-1.6	Thrust Blocks and Anchor Blocks	$ 150.00	$ 24,750.00
78	1	EA	237110	306-1.6	6-Inch Gate Valve	$ 1,500.00	$ 1,500.00
79	12	EA	237110	306-1.6	8-Inch Gate Valve	$ 2,000.00	$ 24,000.00
80	82	EA	237110	306-1.6	12-Inch Gate Valve	$ 3,200.00	$ 262,400.00

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
81	9	EA	237110	306-5.3	Removal of Abandoned Water Meter Box	$ 650.00	$ 5,850.00
82	20	EA	238210	307-2	Pedestrian Barricade SDE-103	$ 3,000.00	$ 60,000.00
83	6	EA	238210	307-2	Pedestrian Railing Barricade	$ 3,000.00	$ 18,000.00
84	2,065	LF	237110	708-6	Handling and Disposal of Non-friable Asbestos Material	$ 25.00	$ 51,625.00
85	4	EA	237110	207-10.2.5	12-Inch Double Ball Flexible Expansion Joint	$ 1,000.00	$ 4,000.00
86	1	LS	237110	207-10.2.5	Potholing		$ 130,000.00
87	1	LS	237110	7-10.2.6	Traffic Control Design		$ 10,000.00
88	1	LS	237110	7-8.3	Mitigation of Noise During Nighttime Operations		$ 40,000.00
89	20	EA	237110	306-5.3	Removal of Valves on Abandoned Pipe and Restoration of Pavement	$ 4000.00	$ 80,000.00
90	2	EA	237110	600-1.4.9	4-Inch Cut and Plug by Contractor	$ 3,800.00	$ 7,600.00
91	15	EA	237110	600-1.4.9	6-Inch Cut and Plug by Contractor	$ 4,400.00	$ 66,000.00
92	13	EA	237110	600-1.4.9	8-Inch Cut and Plug by Contractor	$ 4,800.00	$ 62,400.00
93	4	EA	237110	600-1.4.9	12-Inch Cut and Plug by Contractor	$ 5,300.00	$ 21,200.00
94	7	EA	237110	600-1.4.9	16-Inch Cut and Plug by Contractor	$ 6,200.00	$ 43,400.00
95	2	EA	237110	600-1.4.9	20-Inch Cut and Plug by Contractor	$ 6,000.00	$ 12,000.00
96	25	EA	237110	600-1.4.9	24-Inch Cut and Plug by Contractor	$ 8000.00	$ 200,000.00
97	8	EA	237110	600-1.4.9	30-Inch Cut and Plug by Contractor	$ 10,000.00	$ 80,000.00
98	1	EA	237110	600-1.3.2.10	4-Inch Connections to the Existing System by Contractor	$ 4,300.00	$ 4,300.00

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
99	15	EA	237110	600-1.3.2.10	6-Inch Connections to the Existing System by Contractor	$4,500.00	$ 67,500.00
100	49	EA	237110	600-1.3.2.10	8-Inch Connections to the Existing System by Contractor	$ 4,900.00	$ 240,100.00
101	1	EA	237110	600-1.3.2.10	10-Inch Connections to the Existing System by Contractor	$ 5,000.00	$ 5,000.00
102	32	EA	237110	600-1.3.2.10	12-Inch Connections to the Existing System by Contractor	$ 5,200.00	$ 166,400.00
103	4	EA	237110	600-1.3.2.10	16-Inch Connections to the Existing System by Contractor	$ 6,000.00	$ 24,000.00
104	1	EA	237110	600-1.3.2.10	20-Inch Connections to the Existing System by Contractor	$ 20,000.00	$ 20,000.00
105	3	EA	237110	600-1.3.2.10	36-Inch Connections to the Existing System by Contractor	$ 28,000.00	$ 84,000.00
106	1	EA	237110	600-1.3.2.10	48-Inch Connections to the Existing System by Contractor	$ 35,000.00	$ 35,000.00
107	25	EA	237110	303-5.9	Contractor Date Stamp and Impressions	$ 300.00	$ 7,500.00
108	5	EA	237110	306-1.1.1	Temporary Connections to Existing System	$ 7,500.00	$ 37,500.00
109	200	CY	237110	303-5.10.2	Imported Backfill for Curb Ramp Construction	$ 25.00	$ 5,000.00
110	1	AL	237110	9-3.1	Allowance for Additional Work Within Caltrans ROW at University Avenue Bridge Crossing and at Robinson Avenue Bridge Crossing/Tunnel		$350,000.00
111	55	EA	237110	306-1.6	16-Inch Butterfly Valve Bypass Assembly	$ 25,500.00	$ 1,402,500.00
						ESTIMATED TOTAL BASE BID:	$ ~~19,472,769.00~~ $19,354,365.00

TOTAL BID PRICE FOR BID (Items 1 through 111, inclusive) amount written in words:

Nineteen million Four Hundred Seventy two thousand Seven Hundred Sixty Nine Dollars zero cents

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: A, B, C, D.

The names of all persons interested in the foregoing proposal as principals are as follows:

Dominic J. Burtech - President & CEO

Julie J. Burtech - VP & Secretary

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

Bidder: Burtech Pipeline Inc.

Title: President & CEO

Business Address: 102 Second St. Encinitas, CA 92024

Place of Business: Encinitas, CA 92024

Place of Residence: Encinitas, CA 92024

Signature:

NOTES:

A. The City shall determine the low Bid based on the Base Bid alone.

B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.

C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.

D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.

E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.

F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.

G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.

H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

I. Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Bakers Concrete Cutting Address: P.O. Box 848 City: San Marcos State: CA Zip: 92079 Phone: (760) 744-1679 Email: bakers.leslie@gmail.com	Constructor	636696	Saw Cutting	$ 26,650.00	WBE	Caltrans	—
Name: YBS Concrete Inc. Address: 821 Kuhn Dr. # 204 City: Chula Vista State: CA Zip: 91914 Phone: (619) 271-6122 Email: ybsconcrete@yahoo.com	Constructor	885270	Curb Ramps	$ 405,725.00	ELBE	City	—

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

0.0863 QC

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Long's Directional Boring Address: 1476 Bodie Place. City: Norco State: CA Zip: 92860 Phone: (951) 817-0111 Email: longsdirectionalboring@yahoo.com	Constructor	786830	#33 Jack & Bore	$386,200.00	WBE	Caltrans	—
Name: Southwest Signal Service Address: 397 Raleigh Ave. City: Elcajon State: CA Zip: 92020 Phone: (619) 442-3343 Email: dlebeau@Southwestsignal.com	Constructor	451115	#10, 60, 61 & 62 Traffic Loops	$ 211,632.00	SBE	CADoGS	—

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Hudson Safe-T Lite Address: 777 Gabu Way City: El Cajon State: CA Zip: 92022 Phone: (619) 441-3644 Email: bob@hudsonsafetlite.com	Designer	788289	Traffic Control	$ 30,000.00	WBE	CALTRANS	—
Name: Sealright Paving Address: 9053 Olive drive, 1 City: Spring Valley State: CA Zip: 91977 Phone: (619) 465-7411 Email: srpestimating@sbcglobal.net	Constructor	364113	Asphalt Paving	$319,583.00	MBE	GCMSDC	—

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: VetSource Inc. Address: 500 La Terraza Bl., #150 City: Escondido State: CA Zip: 92025 Phone: (619) 368-4356 Email: mpagano@vetsourceinc.com	Constructor	994396	#38 Bridge Crossing	$217,683.70	DVBE	CPUC	—
Name: Video Fact Address: 4150 Morena Blvd. City: Lamesa State: CA Zip: 91941 Phone: (619) 889-8368 Email: Chris@videofact.net	Constructn	N/A	#63 Video Docs	$ 5,200.00	ELBE	CITY	—

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Cell-Crete Address: 135 E. Railroad Ave City: Monrovia State: CA Zip: 91016 Phone: (626) 357-3500 Email: dvillegas@cell-crete.com	Constructor	243404	Pipe Abandonment	$34,655.37	—	—	—
Name: Brian F. Smith & Assoc. Address: 14010 Poway Road Ste. A City: Poway State: CA Zip: 92064 Phone: (858) 679-8218 Email: kguerrero@bfsa-ca.com	Constructor	N/A	Paleo monitoring	$33,975.00	SLBE	City	—

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

The Bidder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES (MUST BE FILLED OUT)	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED②
Name: Logans Marketing Address: 121 Broadway # 1220 City: San Diego State: CA Zip: 92101 Phone: (619) 233-3766 Email: NOHEARU@gmail.com	Sand, Asphalt, Cold mix	$ 200,000.00	yes	NO	DBE	CALTRANS
Name: Address: City: State: Zip: Phone: Email:						

① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification

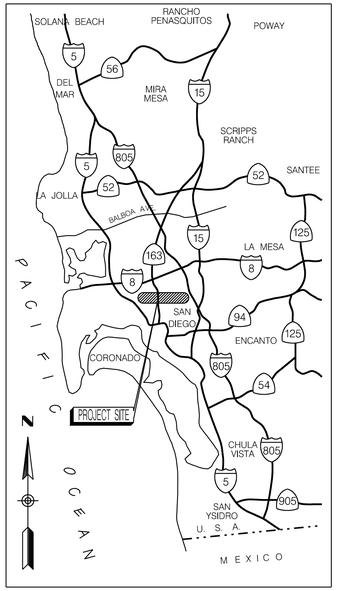
UNIVERSITY AVE PIPELINE REPLACEMENT

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

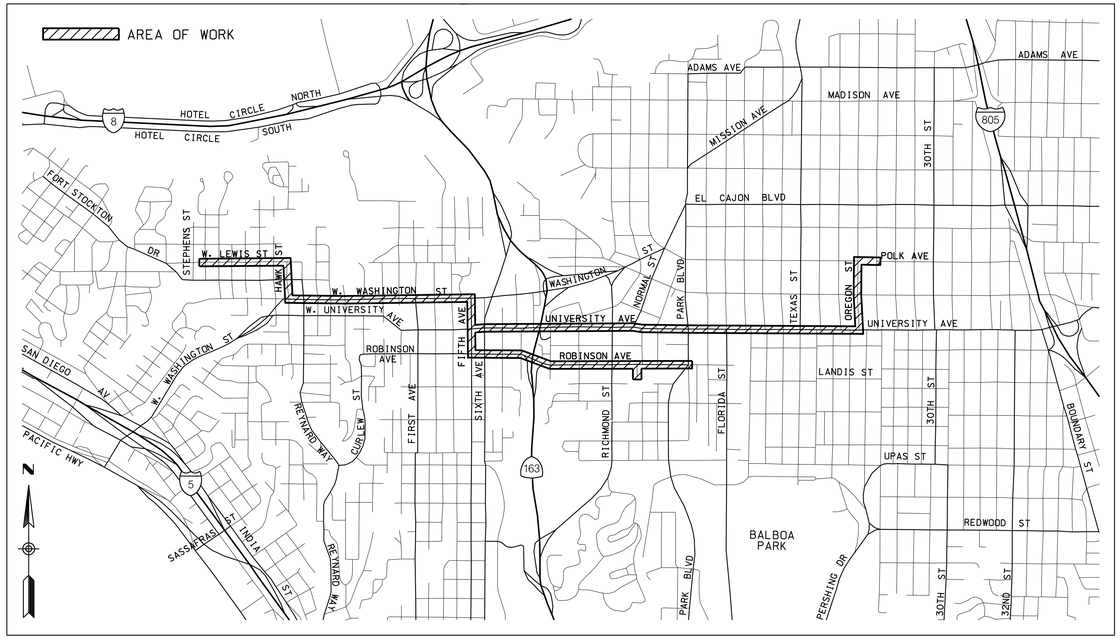
STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NO SCALE

G-1

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Robert J. Wa... 6-9-2014
PROJECT ENGINEER DATE

CONSULTANT
Brown AND Caldwell

PLANS FOR THE CONSTRUCTION OF
UNIVERSITY AVE PIPELINE REPLACEMENT
COVER SHEET

CONSTRUCTION CHANGE / ADDENDUM

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
PUBLIC WORKS PROJECT

CONSTRUCTION SITE STORM WATER PRIORITY (INSPECTION FREQUENCY): HIGH.____ MEDIUM..X.. LOW.____

SPEC. NO. 5716

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
PVC PIPE CL 235 (C905 DR-18)	-
STL PIPE ASTM 53 GRADE B	-
GATE VALVES	-
BUTTERFLY VALVES	-
FIRE HYDRANTS	-
BLOW-OFF VALVES	-
AIR/VACUUM VALVES	-

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARDEN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 01 OF 86 SHEETS

APPROVED J. Bonnell 6-9-2014
FOR CITY ENGINEER DATE
IRAJ ASCHARZADEH
PRINT NAME

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A

SUBMITTED BY F. Michael Bafous
PROJECT MANAGER

APPROVED BY Francisco Mendoza
PROJECT ENGINEER

SEE SHEETS
CCS27 COORDINATE

SEE SHEETS
CCS83 COORDINATE

36656-01-D

UNIVERSITY AVE PIPELINE REPLACEMENT

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\G-GENERAL\36656-G01.dgn
18-JUL-2014 14:47 therencia

CONTRACTOR'S RESPONSIBILITIES

1. PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
2. NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69 KV & HIGHER)
3. EXCAVATE AROUND WATER METER BOX (I.E., CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING THE MAIN.
4. CITY FORCES, WHERE CALLED OUT, WILL MAKE PERMANENT CUTS AND PLUGS AND CONNECTIONS.
5. KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SPECIFIED SHOWN ON THE PLANS.
6. THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLANS ARE APPROXIMATE.
7. KEEP STORM DRAIN INLETS FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORDED INFORMATION ONLY AND ARE SOLELY FOR YOUR CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. PRIOR TO EXCAVATION, YOU MUST VERIFY ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 5-1.
9. EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. SEE PLAN VIEW.
10. FOR COORDINATION OF THE SHUTDOWN OF TRANSMISSION MAINS (16 INCHES AND LARGER), CONTACT THE CITY'S SENIOR WATER DISTRIBUTION OPERATIONS SUPERVISOR TATYANA FIKHMAN AT tfikhman@sandiego.gov OR AT (619) 527-7465.
11. FOR COORDINATION OF THE SHUTDOWN OF DISTRIBUTION MAINS (LESS THAN 16 INCHES), CONTACT THE CITY'S WATER OPERATIONS MANAGER BERNARD POWELL AT bpowell@sandiego.gov OR AT (619) 527-3945.
12. CONTACT THE CORROSION SECTION (619) 527-8065 IF DUCTILE IRON PIPING IS TO BE USED.
13. THRUST BLOCKS SHALL BE USED ON ALL PRESSURE PIPE AT ALL TEES, CROSSES, BENDS, VALVES AND REDUCERS.
14. CONTRACTOR SHALL COORDINATE WITH MTS REGARDING AFFECTED BUS STOPS TWO DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
15. EXISTING BURIED TROLLEY TRACKS WILL BE ENCOUNTERED DURING CONSTRUCTION. IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH THICK CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS. ALL INTEREFERING TRACK AND SUB-BASE SHALL BE REMOVED.
16. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING ASBESTOS CEMENT PIPE PER ALL APPLICABLE REGULATIONS.

STORM WATER PROTECTION

1. THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2013-0003 AND NPDES No. CAG079001.

ABBREVIATIONS

ABAND	ABANDON	EL, ELEV	ELEVATION	PPB	PEDESTRIAN PUSHBUTTON
ABAND'D	ABANDONED	ELEC	ELECTRIC	PROP	PROPOSED
AC	ASBESTOS CEMENT	EX, EXIST	EXISTING	PVC	POLYVINYL CHLORIDE
ADA	PIPE AMERICANS W/ DISABILITIES ACT	E/O	EAST OF	RCP	REINFORCED CONCRETE PIPE
		F	FLANGE		
		FH	FIRE HYDRANT	RCSC	REINFORCED CONCRETE
AHD	AHEAD	FS	FIRE SERVICE		STEEL CYLINDER PIPE
ASSY	ASSEMBLY	GV	GATE VALVE	RED	REDUCER
AVE	AVENUE	HDPE	HIGH-DENSITY POLYETHYLENE	RT	RIGHT
AWWA	AMERICAN WATER WORKS ASSOCIATION	HP	HIGH PRESSURE	R/W	RIGHT-OF-WAY
		HWY	HIGHWAY	℄	SURVEY LINE
BFV	BUTTERFLY VALVE	IE	INVERT ELEVATION	SD	STORM DRAIN
BK	BACK	LBS/FT	POUNDS PER FOOT	SDR	STANDARD DIMENSION RATIO
BTWN	BETWEEN	LF	LINEAR FEET	SQ FT	SQUARE FOOT
CATV	CABLE TV	LT	LEFT	ST	STREET
CI	CAST IRON PIPE	MJ	MECHANICAL JOINT	STD	STANDARD
CICL	CAST IRON CONCRETE LINED PIPE	MTD	MULTIPLE TELEPHONE DUCT	STL	STEEL
				SO	STUB OUT
C	CENTER LINE	MUTCD	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	S/O	SOUTH OF
CL	CLASS			SWR	SEWER
COND	CONDUIT			TEL	TELEPHONE
CONT	CONTINUED			UNKN	UNKNOWN
CONTR	CONTRACTOR	N/O	NORTH OF	VC	VITRIFIED CLAY PIPE
DB	DIRECT BURIED	OVHD	OVER HEAD	WM	WATER METER
DWG	DRAWING	PEHP	POLYETHYLENE HIGH PRESSURE	WTR	WATER
DWT	DETECTABLE WARNING TILE	P.L.	PROPERTY LINE	W/	WITH
EB	ENCASED BURIED			W/O	WEST OF

EXISTING STRUCTURES

EX WATER MAIN & VALVES
EX WATER METER
EX FIRE HYDRANT
EX SEWER MAIN & MANHOLES
EX DRAINS
EX PAVEMENT (PROFILE)
EX GROUND LINE (PROFILE)
EX TRAFFIC SIGNAL — TS
EX STREET LIGHT — SL
GAS MAIN
ELEC. COND., TEL. COND., CATV — E — T — C
RAILROAD, TROLLEY TRACKS

LIMITS OF WORK

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE SIZE (IN)	PIPE MATERIAL	LENGTH FT
1	G-1	COVER SHEET				
2	G-2	LIST OF DRAWINGS, NOTES, AND LEGEND				
3	G-3	KEY MAP				
4	C-1	W. LEWIS ST 16" WATER PIPELINE A PLAN AND PROFILE STA 0+75 TO STA 6+50	STEPHENS ST TO RANDOLPH ST	16/12		575/140
5	C-2	W. LEWIS ST 16" WATER PIPELINE A PLAN AND PROFILE STA 6+50 TO STA 13+00	LARK ST TO INGALLS ST	16/12		650/140
6	C-3	W. LEWIS ST/HAWK ST 16" WATER PIPELINE A PLAN AND PROFILE STA 13+00 TO STA 20+00	JACKDAW ST TO HAWK ST	16/12		700/207
7	C-4	HAWK ST 16" WATER PIPELINE A PLAN AND PROFILE STA 20+00 TO STA 27+00	W. LEWIS ST TO W. WASHINGTON ST	16/12		745/178
8	C-5	W. WASHINGTON ST 16" WATER PIPELINE A PLAN AND PROFILE STA 27+00 TO STA 33+00	GOLDFINCH ST TO FALCON ST	16/12		600/242
9	C-6	W. WASHINGTON ST 16" WATER PIPELINE A PLAN AND PROFILE STA 33+00 TO STA 39+00	EAGLE ST TO DOVE ST	16/8		600/230
10	C-7	W. WASHINGTON ST 16" WATER PIPELINE A PLAN AND PROFILE STA 39+00 TO STA 45+00	DOVE ST TO BRANT ST	16/12		600/105
11	C-8	W. WASHINGTON ST 16" WATER PIPELINE A PLAN AND PROFILE STA 45+00 TO STA 51+00	ALBATROSS ST TO FRONT ST	16/12/8		600/173/60
12	C-9	W. WASHINGTON ST 16" WATER PIPELINE A PLAN AND PROFILE STA 51+00 TO STA 58+00	FIRST AVE TO THIRD AVE	16/12/8		700/110/70
13	C-10	W. WASHINGTON ST/FIFTH AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 58+00 TO STA 64+00	FOURTH AVE TO FIFTH AVE	16/12		654/207
14	C-11	FIFTH AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 64+00 TO STA 70+00	W. WASHINGTON ST TO UNIVERSITY AVE	16/12		600/50
15	C-12	FIFTH AVE/ROBINSON AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 70+00 TO STA 75+50	UNIVERSITY AVE TO ROBINSON AVE	16		630
16	C-13	ROBINSON AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 75+50 TO STA 82+00	SIXTH AVE TO SEVENTH AVE	16/12		650/120
17	C-14	ROBINSON AVE/EIGHTH AVE 16" WATER PIPELINE A PLAN AND DETAILS STA 82+00 TO STA 90+00	EIGHTH AVE TO SR-163	16/12		830/40
18	C-15	ROBINSON AVE/EIGHTH AVE 16" WATER PIPELINE A PROFILE STA 82+00 TO STA 90+00	EIGHTH AVE TO SR-163	N/A		N/A
19	C-16	ROBINSON AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 90+00 TO STA 96+00	TENTH AVE TO VERMONT ST	16/12		600/90
20	C-17	ROBINSON AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 96+00 TO STA 102+00	VERMONT ST TO RICHMOND ST	16/12		600/90
21	C-18	ROBINSON AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 102+00 TO STA 108+00	RICHMOND ST TO ALBERT ST	16/12		600/80
22	C-19	ROBINSON AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 108+00 TO STA 114+00	ROBINSON PL TO CENTRE ST	16/12		600/100
23	C-20	ROBINSON AVE 16" WATER PIPELINE A PLAN AND PROFILE STA 114+00 TO STA 119+51.27	PARK BLVD TO INDIANA ST	16/12/8		585/101/12
24	C-21	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 200+00 TO STA 205+50	FIFTH AVE TO SIXTH AVE	16/12		550/276
25	C-22	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 205+50 TO STA 211+00	SEVENTH AVE TO EIGHTH AVE	16/12/8		550/90/50
26	C-23	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 211+00 TO STA 217+00	NINTH AVE TO TENTH AVE	16/12		373/640
27	C-24	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 217+00 TO STA 223+00	TENTH AVE TO VERMONT ST	16/12		600/140
28	C-25	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 223+00 TO STA 229+00	VERMONT ST TO RICHMOND ST	16/12		600/140
29	C-26	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 229+00 TO STA 235+00	NORMAL ST TO HERBERT ST	16/12		600/158
30	C-27	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 235+00 TO STA 241+00	CENTRE ST TO PARK BLVD	16/12		600/100
31	C-28	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 241+00 TO STA 247+00	PARK BLVD TO GEORGIA ST	16		640
32	C-29	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 247+00 TO STA 253+00	GEORGIA ST TO FLORIDA ST	16/8		600/80
33	C-30	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 253+00 TO STA 258+50	ALABAMA ST TO MISSISSIPPI ST	16/12		550/80
34	C-31	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 258+50 TO STA 265+00	MISSISSIPPI ST TO LOUISIANA ST	16/12		650/211
35	C-32	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 265+00 TO STA 271+00	TEXAS ST TO ARIZONA ST	16/12		600/176
36	C-33	UNIVERSITY AVE 16" WATER PIPELINE B PLAN AND PROFILE STA 271+00 TO STA 277+00	ARNOLD ST TO VILLA TERRACE	16/12		600/122
37	C-34	UNIVERSITY AVE/OREGON ST 16" WATER PIPELINE B PLAN AND PROFILE STA 277+00 TO STA 283+00	UNIVERSITY AVE TO LINCOLN AVE	16/12		600/65
38	C-35	OREGON ST 16" WATER PIPELINE B PLAN AND PROFILE STA 283+00 TO STA 289+00	LINCOLN AVE TO POLK AVE	16/12		600/80
39	C-36	OREGON ST 16" WATER PIPELINE B PLAN AND PROFILE STA 289+00 TO STA 293+60.98	POLK AVE TO COMMUNITY PARK	36/24/16/12		207/32/322/35
40	C-37	ROBINSON PLACE 8" WATER PIPELINE C PLAN AND PROFILE STA 0+00 TO STA 2+10.00	CUL-DE-SAC AT ROBINSON AVE	8		210
				TOTAL WATER 36"		207
				24"		32
				16"		21,154
				12"		4,486
				8"		712
41	C-38	HORIZONTAL ALIGNMENT COORDINATE INDEX REPORT 1				
42	C-39	HORIZONTAL ALIGNMENT COORDINATE INDEX REPORT 2				
43	C-40	HORIZONTAL ALIGNMENT COORDINATE INDEX REPORT 3 AND MISCELLANEOUS DETAILS				
44	C-41	MISCELLANEOUS DETAILS 1				
45	C-42	MISCELLANEOUS DETAILS 2				
46	C-43	MISCELLANEOUS DETAILS 3				
47	C-44	MISCELLANEOUS DETAILS 4				
48	C-45	STREET RESURFACING PLAN 1	STREET RESURFACING			
49	C-46	STREET RESURFACING PLAN 2				
50	C-47	STREET RESURFACING PLAN 3				
51	C-48	STREET RESURFACING PLAN 4				
52	C-49	STREET RESURFACING PLAN 5				
53	C-50	STREET RESURFACING PLAN 6				
54	C-51	STREET RESURFACING PLAN 7				
55	C-52	CURB RAMP PLAN 1	CURB RAMP LOCATION			
56	C-53	CURB RAMP PLAN 2				
57	C-54	CURB RAMP PLAN 3				
58	C-55	CURB RAMP PLAN 4				
59	C-56	CURB RAMP PLAN 5				
60	C-57	CURB RAMP PLAN 6				
61	C-58	CURB RAMP PLAN 7				
62	C-59	CURB RAMP DETAILS 1	CURB RAMP ENLARGED PLANS			
63	C-60	CURB RAMP DETAILS 2				
64	C-61	CURB RAMP DETAILS 3				
65	C-62	CURB RAMP DETAILS 4				
66	C-63	CURB RAMP DETAILS 5				
67	C-64	CURB RAMP DETAILS 6				
68	C-65	CURB RAMP DETAILS 7				
69	C-66	CURB RAMP DETAILS 8				
70	C-67	CURB RAMP DETAILS 9				
71	C-68	CURB RAMP DETAILS 10				
72	C-69	CURB RAMP DETAILS 11				
73	C-70	CURB RAMP DETAILS 12				
74	C-71	CURB RAMP DETAILS 13				
75	C-72	TYPICAL CURB RAMP DETAILS				
76	C-73	STRIPING 1	STRIPING AND TRAFFIC LOOPS			
77	C-74	STRIPING 2				
78	C-75	STRIPING 3				
79	C-76	TRAFFIC LOOPS 1				
80	CP-1	CATHODIC PROTECTION DETAILS	CATHODIC PROTECTION			
81	CP-2	CATHODIC PROTECTION DETAILS				
82	CP-3	CATHODIC PROTECTION DETAILS				
83	L-1	LANDSCAPE IRRIGATION DEMO AND REPLACEMENT PLAN	LANDSCAPE			
84	L-2	LANDSCAPE PLANTING DEMO AND REPLACEMENT PLAN				
85	L-3	LANDSCAPE DETAILS				
86	L-4	LANDSCAPE DETAILS				
T01 to T249	TC-1 to TC-249	TRAFFIC PLANS	TRAFFIC PLANS			

WORK TO BE DONE

THE PROJECT CONSISTS OF REPLACING APPROX. 21,300 LF OF AGED 16-INCH TO 36-INCH CAST IRON PIPE WATER PIPE WITH NEW 16-INCH PVC ALONG COMMERCIAL AND RESIDENTIAL URBAN STREETS WITHIN THE NORTH PARK AND UPTOWN AREAS OF SAN DIEGO. THE NEW LINE WILL SERVE AS A TRANSMISSION AND DISTRIBUTION MAIN, WITH EXISTING SERVICES BEING REPLACED AND CONNECTED TO THE NEW LINE. IN ADDITION TO THE REPLACEMENT, THE PROJECT INCLUDES THE ABANDONMENT OF SEVERAL THOUSAND FEET OF EXISTING DISTRIBUTION PIPING.

THE NEW LINE WILL CROSS HWY SR-163 AT 2 LOCATIONS:
UNIVERSITY AVE AND ROBINSON AVE

THESE CROSSINGS REQUIRE A CALTRANS ENCROACHMENT PERMIT.
THE ROBINSON AVE CROSSING WILL BE A BORE AND JACK CROSSING, WHILE THE UNIVERSITY AVE CROSSING WILL BE LOCATED IN EXISTING UTILITY CELLS WITHIN THE BRIDGE.

THE PROJECT INCLUDES REPLACING EXISTING FIRE HYDRANTS, INSTALLING NEW FIRE HYDRANTS, NEW ADA CURB RAMPS, STREET SLURRY SEAL, DISTRIBUTION LINE INTERCONNECTIONS, NEW ISOLATION VALVES, AND REPLACEMENT OF THE EXISTING SERVICE LATERALS AND METERS.

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

DISCIPLINE CODE

G	GENERAL
C	CIVIL
CP	CATHODIC PROTECTION
L	LANDSCAPE
TC	TRAFFIC CONTROL

LEGEND

IMPROVEMENTS	STANDARD DRAWINGS	SYMBOL
TRENCH RESURFACING	SDG-107, SDG-108	
CONCRETE PROTECTION FOR EXIST SEWER PIPE	SDS-116	
PIPE SUPPORT FOR UNDERCUT AC WATER MAIN	SDW-162	
CUTTING & PLUGGING ABANDONED WATER MAIN	WP-03	
SURVEY MONUMENT	M-10	
WATER MAIN & APPURTENANCES	SDW-110, SDW-148, SDW-151, SDW-161	
VALVES WITH CAPS & WELLS	SDW-109, SDW-152, SDW-153, SDW-154, WV-05	
FIRE SERVICE CONNECTION & ASSEMBLY	SDW-109, SDW-118, SDW-148, SDW-152, SDW-153	P.L. F
6" FIRE HYDRANT ASSEMBLY & MARKER 2-PORT UNLESS SPECIFIED AS 3-PORT	SDW-104, SDW-109, SDW-148, SDW-152, SDW-153	PROPOSED WATER
1" WATER SERVICE UNLESS OTHERWISE SPECIFIED	SDW-107, SDW-134, SDW-135 SDW-136, SDW-137, SDW-138, SDW-148, SDW-149, SDW-150, WS-03	WM P.L. W PROPOSED WATER
WATER SERVICE TRANSFER	SDW-149, SDW-150	WM P.L. T
BLOW-OFF ASSEMBLY	SDW-106, SDW-143, SDW-144, SDW-145, SDW-146, SDW-148, WB-05,	B.O. PROPOSED WATER
AIR & VACUUM VALVE	SDW-117, SDW-148, SDW-158, SDW-159, SDW-160	A.V.
HIGHLINING BY CONTRACTOR	SDW-170, SDW-171, SDW-172, SDW-173	

FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP, HORIZONTAL ALIGNMENT COORDINATE AND TRAFFIC CONTROL SHEETS.

FIELD DATA

BENCHMARK:
•NWBP UNIVERSITY & MISSISSIPPI ELEV=285.99 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK.

BASIS OF BEARINGS/COORDINATES:
THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY USING GPS 173 (•173) AND GPS 17 (•17) AS SHOWN ON ROS 14492 I.E. N4° 04'52"W, ZONE 6 (EPOCH 91.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH THE BASE STATION LOCATED AT AN AUTONOMOUS POSITION, CONSTRAINING TO GPS 173 (PT•173), GPS 17 (PT•17) AND CHECKING GPS 1040 (PT•1040).

FIELD NOTES:
GJ761 WATER, DAVIS, 7/9/2008, WO 187541, 208-1713

DATUM: MEAN SEA LEVEL

STREETS REQUIRING 12" TRENCH CAP:
UNIVERSITY AVENUE

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WARD — No. C43272 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

G-2

PLANS FOR THE CONSTRUCTION OF
UNIVERSITY AVE PIPELINE REPLACEMENT
LIST OF DRAWINGS, NOTES AND LEGEND

CITY OF SAN DIEGO, CALIFORNIA

SHEET 02 OF 75 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A

DESIGNED BY F. Michael Bafoua, PROJECT MANAGER
CHECKED BY Thanicia Therencia, PROJECT ENGINEER

SEE SHEETS CCS27 COORDINATE
SEE SHEETS CCS83 COORDINATE

36656-02-D

LIST OF DRAWINGS, NOTES AND LEGEND

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 – University Avenue Pipeline\CADD\2-SHEETS\G-GENERAL\36656-G02.dgn
18-JUL-2014 14:58 therencia

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

KEY MAP

STA 0+75.00
BEGIN CONSTRUCTION
PIPELINE A

STEPHENS ST · PALMETTO WAY · RANDOLPH ST · LARK ST · INGALLS ST · JACKDAW ST · IBIS ST · HAWK ST

W LEWIS ST

SHEET 4 · SHEET 5 · SHEET 6 · SHEET 7

FT STOCKTON DR

W WASHINGTON ST

GOLDFINCH ST · FALCON ST · EAGLE ST · DOVE ST · BRANT ST · ALBATROSS ST · FRONT ST · FIRST AVE · THIRD AVE · FOURTH AVE · FIFTH AVE

SHEET 8 · SHEET 9 · SHEET 10 · SHEET 11 · SHEET 12 · SHEET 13

CALTRANS
UNIVERSITY AVENUE
ENCROACHMENT
PERMIT LOCATION

WASHINGTON ST

SHEET 14 · SHEET 24 · SHEET 25 · SHEET 26

EIGHTH AVE · NINTH AVE · TENTH AVE

UNIVERSITY AVE

STA 68+69.67 =
STA 200+00.00
BEGIN CONSTRUCTION
PIPELINE B

SHEET 15

SIXTH AVE · SEVENTH AVE · EIGHTH AVE · SR-163

ROBINSON AVE

SHEET 16 · SHEET 17 PLAN · SHEET 18 PROFILE

SEE BOTTOM LEFT
FOR CONTINUATION

STA 293+60.98
END CONSTRUCTION
PIPELINE B

CALTRANS
ROBINSON AVENUE
ENCROACHMENT
PERMIT LOCATION

OREGON ST

POLK AVE

SHEET 39 · SHEET 38

IDAHO ST

LINCOLN AVE

SHEET 37

APPLICANT PROJECT 141953 REQUIRES
TWO CALTRANS ENCROACHMENT PERMITS.
UNIVERSITY AVENUE AND ROBINSON AVENUE
ENCROACHMENT PERMIT APPLICATIONS TO
BE SUBMITTED TO CALTRANS SEPARATELY.

SHEET 27 · CLEVELAND AVE · SHEET 28 · SHEET 29 · NORMAL ST · CENTRE ST · SHEET 30 · PARK BLVD · SHEET 31 · GEORGIA ST · SHEET 32 · FLORIDA ST · ALABAMA ST · SHEET 33 · MISSISSIPPI ST · SHEET 34 · LOUISIANA ST · TEXAS ST · SHEET 35 · ARIZONA ST · SHEET 36 · HAMILTON ST

UNIVERSITY AVE

SEE TOP RIGHT
FOR CONTINUATION

UNIVERSITY AVE

ESSEX ST

HERBERT ST · CENTRE ST

ESSEX ST

SHEET 23

GEORGIA ST · FLORIDA ST · ALABAMA ST · MISSISSIPPI ST · LOUISIANA ST · TEXAS ST · ARIZONA ST · ARNOLD AVE · VILLA TERRACE · PERSHING AVE

ROBINSON AVE

STA 9I+15.56 BK =
STA 9I+13.36 AHD
STATION EQUATION

TENTH AVE · VERMONT ST · RICHMOND ST

SHEET 19 · SHEET 20 · SHEET 21 · SHEET 40 · SHEET 22

CALTRANS
ROBINSON AVENUE
ENCROACHMENT
PERMIT LOCATION

STA 108+25.71 =
STA 0+00.00
BEGIN CONSTRUCTION
PIPELINE C

ROBINSON PL

STA 2+10.00
END CONSTRUCTION
PIPELINE C

PARK BLVD · INDIANA ST

STA 119+51.27
END CONSTRUCTION
PIPELINE A

N · W · E · S

0 300 600 900
SCALE 1" = 300'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WARREN
NO. C45272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA

06/09/2014

G-3

UNIVERSITY AVE PIPELINE REPLACEMENT

GENERAL

KEY MAP

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 03 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) 6-9-2014 DATE
SUBMITTED BY F. Michael Bagoua PROJECT MANAGER
PREPARED BY Francine Bellan PROJECT ENGINEER

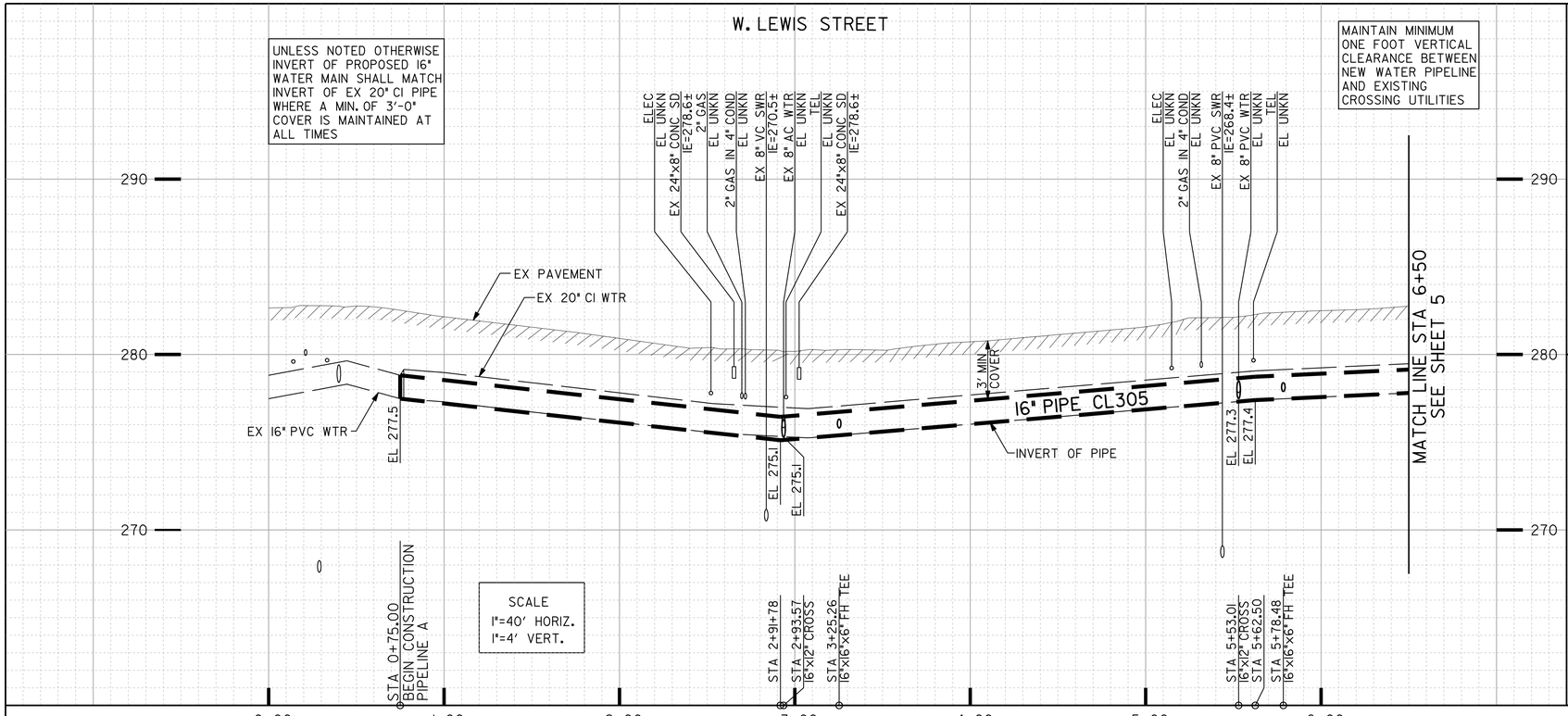
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

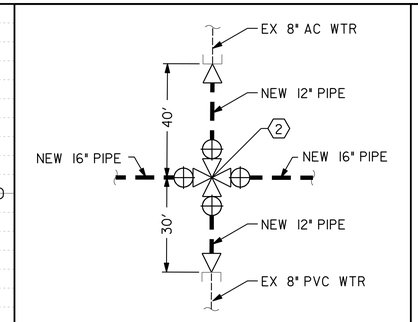
SEE SHEETS CCS27 COORDINATE
SEE SHEETS CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

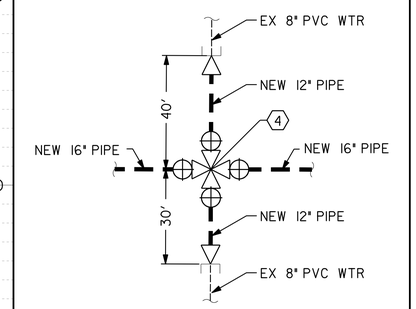
36656-03-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\G-GENERAL\36656-G03.dgn
18-JUL-2014 14:59 therencia





DETAIL A
PALMETTO WAY AT W. LEWIS ST.
NTS



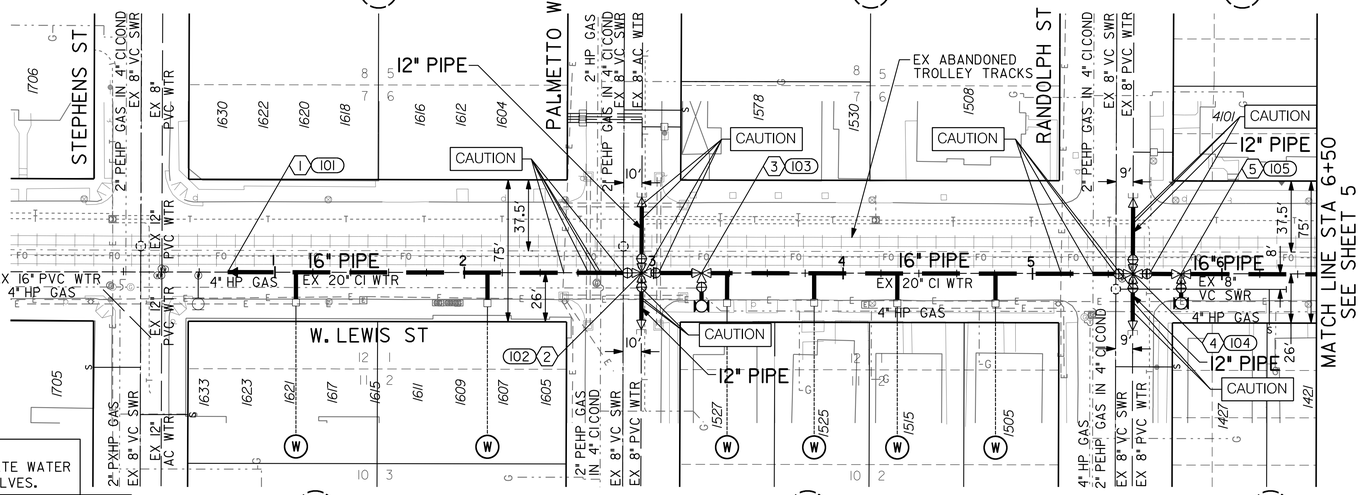
DETAIL B
RANDOLPH ST. AT W. LEWIS ST.
NTS

REFERENCE:
WATER: 10337-2-D, 15598-5-D, 26549-4-D, 26549-6-D, 26549-7-D, 34219-9-D
SEWER: 13686-5-D, 13686-6-D, 13686-8-D, 13686-9-D
STORM DRAIN: 534-L
GAS: 4-85, 4-86, 22-401
ELECTRIC: 214-1713
CABLE TV:
TELEPHONE: un0502ac, un0502ca, un0702bd, un0702db
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI8S
THOMAS BROS.: 1268-H5
HGL: 463.56

RETIREMENTS:
20" - 575' CI 1915
FH (6-PORT) - 1
8" - 40' AC 1962
8" - 30' PVC 1995
8" - 40' PVC 1994
8" - 30' PVC 1994
¾" SERVICE - 6

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

NORTH FLORENCE HEIGHTS MAP 634 (6)
NORTH FLORENCE HEIGHTS MAP 634 (5)
ARNOLD & CHOATE'S ADDITION MAP 334 (40)



NORTH FLORENCE HEIGHTS MAP 634 (7)
NORTH FLORENCE HEIGHTS MAP 634 (8)
ARNOLD & CHOATE'S ADDITION MAP 334 (41)

1 101
BY CONTRACTOR
STA 0+75.00
BEGIN CONSTRUCTION OF LINE A

2 102
BY CONTRACTOR FURNISH & INSTALL
STA 2+93.57
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 30' RT
40' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

3 103
BY CONTRACTOR FURNISH & INSTALL
STA 3+25.26
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

4 104
BY CONTRACTOR FURNISH & INSTALL
STA 5+53.01
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 30' RT
40' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL B

5 105
BY CONTRACTOR FURNISH & INSTALL
STA 5+78.48
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

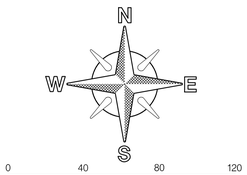
HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CAUTION
4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JEFFREY JUDSON WATSON No. CA 32772 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-1

UNIVERSITY AVE PIPELINE REPLACEMENT

W. LEWIS STREET
16" WATER PIPELINE A
PLAN AND PROFILE
STA 0+75 TO STA 6+50

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 04 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — DATE 6-9-2014

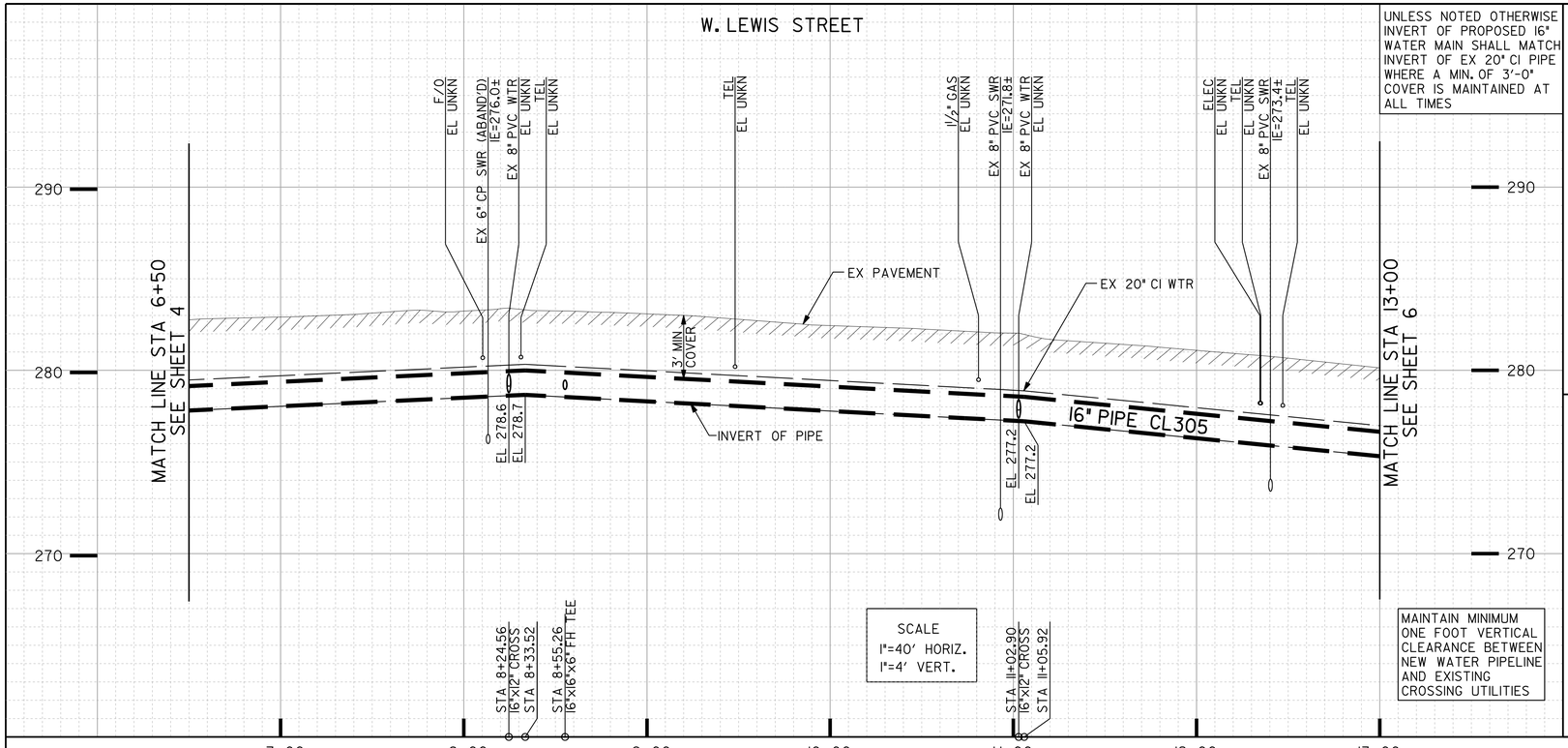
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY: F. Michael Bogosian, PROJECT MANAGER
CHECKED BY: Thomas Boehm, PROJECT ENGINEER
214-1713 CCS27 COORDINATE
1854444-6274407 CCS83 COORDINATE
36656-04-D

W. LEWIS STREET

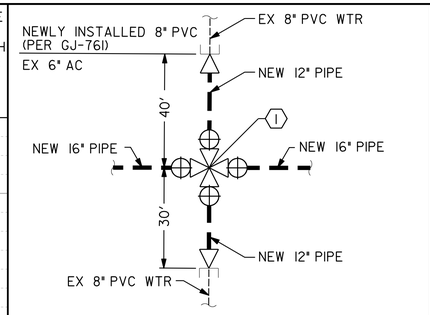
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C01.dgn
18-JUL-2014 15:00 therencia



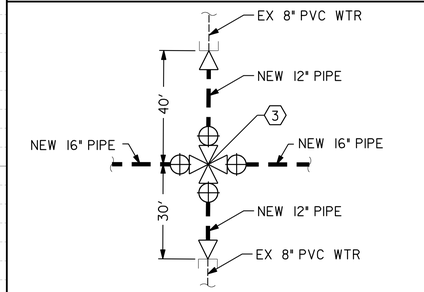
SCALE
1"=40' HORIZ.
1"=4' VERT.

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 20" CI PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
LARK ST. AT W. LEWIS ST.
NTS



DETAIL B
INGALLS ST. AT W. LEWIS ST.
NTS

REFERENCE:
WATER: 14331-5-D, 15598-5-D, 26549-9-D, 26549-10-D
SEWER: 13686-9-D, 26310-19-D, 26310-20-D, 26549-12-D, 26549-13-D
STORM DRAIN:
GAS: 22-306, 22-308, 22-396
ELECTRIC: 214-1713
CABLE TV:
TELEPHONE: un0502ac, un0502ad, un0502ca, un0502cb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI8S
THOMAS BROS.: 1268-H5
HGL: 463.80

RETIREMENTS:
20" - 650' CI 1915
6" - 40' AC 1971
8" - 30' PVC 1995
8" - 40' PVC 1995
8" - 30' PVC 1995
¾" SERVICE - 9
1" SERVICE - 1

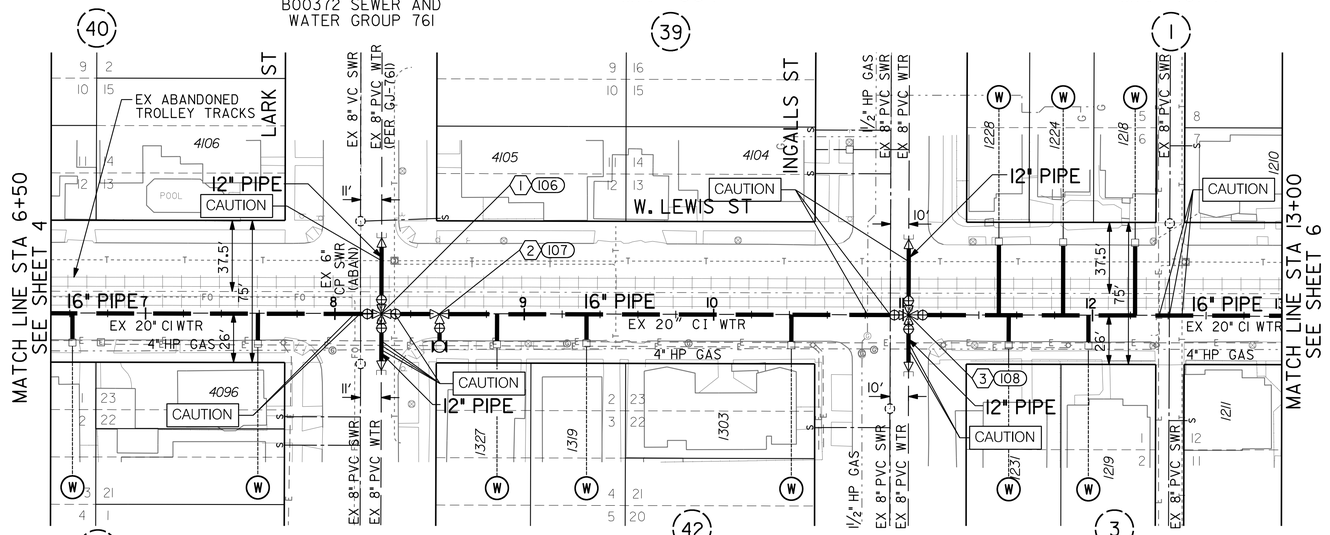
CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

ARNOLD & CHOATE'S ADDITION
MAP 334

ADJACENT PROJECT:
B00372 SEWER AND WATER GROUP 761

ARNOLD & CHOATE'S ADDITION
MAP 334

WASHINGTON HEIGHTS
MAP 1074



ARNOLD & CHOATE'S ADDITION
MAP 334

ARNOLD & CHOATE'S ADDITION
MAP 334

WASHINGTON HEIGHTS
MAP 1074

1 106
BY CONTRACTOR
FURNISH & INSTALL
STA 8+24.56
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 30' RT
40' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

2 107
BY CONTRACTOR
FURNISH & INSTALL
STA 8+55.26
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

3 108
BY CONTRACTOR
FURNISH & INSTALL
STA 11+02.90
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 30' RT
40' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL B

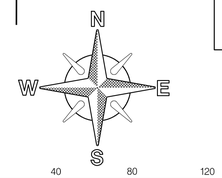
ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CAUTION
4" HP GASI CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.



0 40 80 120
SCALE 1" = 40'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JEFFERY JUDSON WATSON No. CA 32772 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

PRESSURE ZONE: ALVARADO 536

C-2

UNIVERSITY AVE PIPELINE REPLACEMENT

W. LEWIS STREET
16" WATER PIPELINE A
PLAN AND PROFILE
STA 6+50 TO STA 13+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 05 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — DATE 6-9-2014

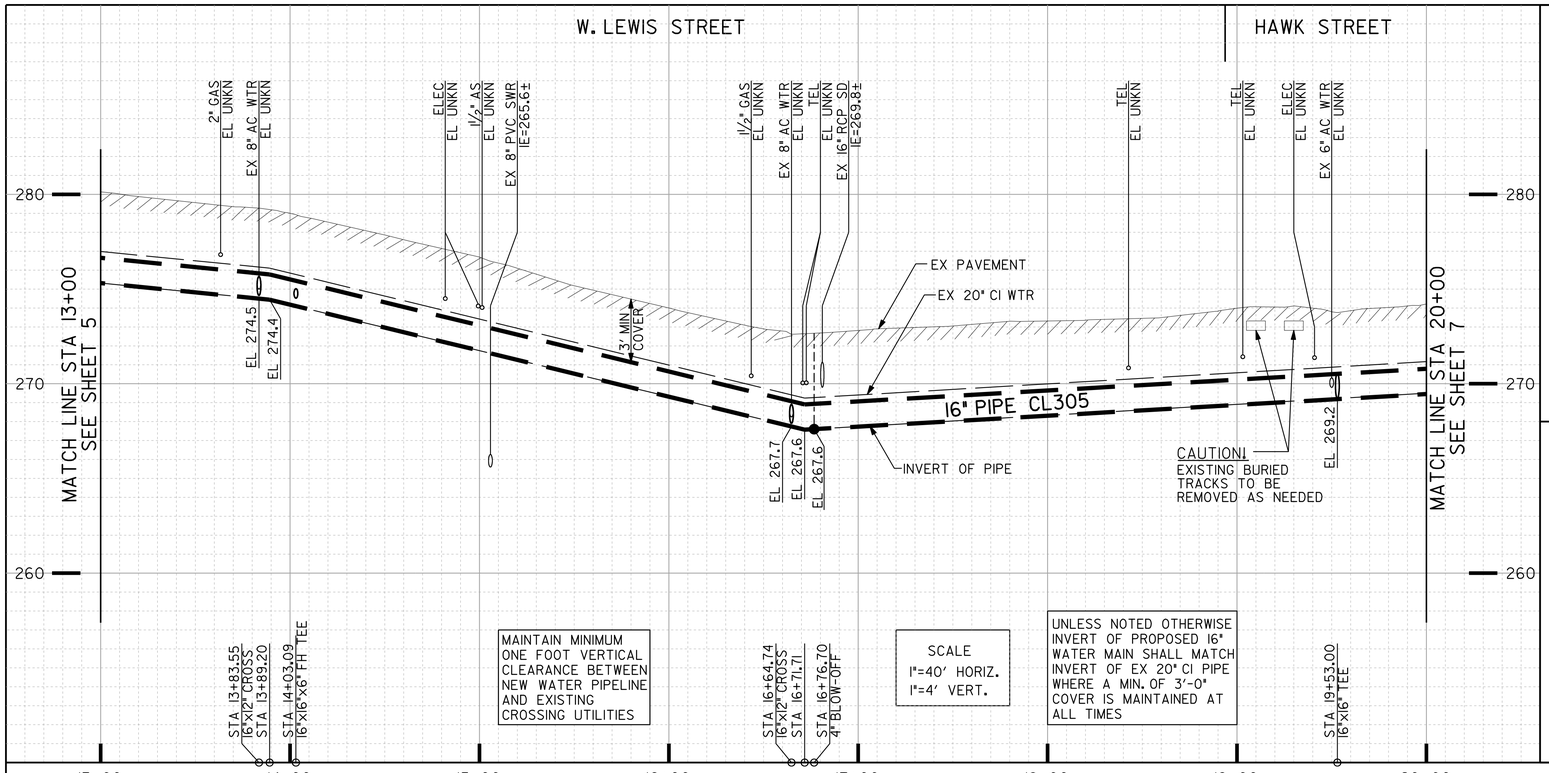
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

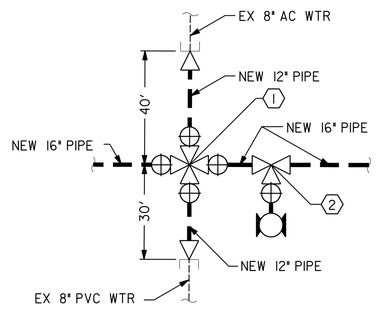
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY: F. Michael Bagoua, PROJECT MANAGER
CHECKED BY: Therence Rocha, PROJECT ENGINEER
214-1713 CCS27 COORDINATE
1854444-6274407 CCS83 COORDINATE
36656-05-D

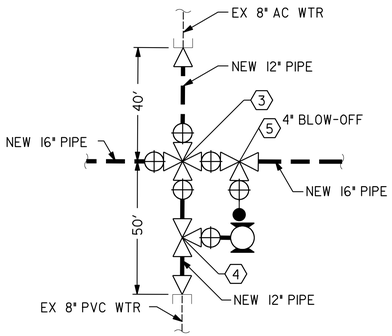
W. LEWIS STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C02.dgn
18-JUL-2014 15:01 therencia

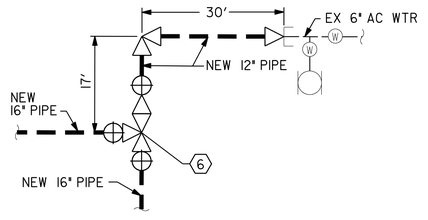




DETAIL A
JACKDAW ST. AT W. LEWIS ST.
NTS



DETAIL B
IBIS ST. AT W. LEWIS ST.
NTS

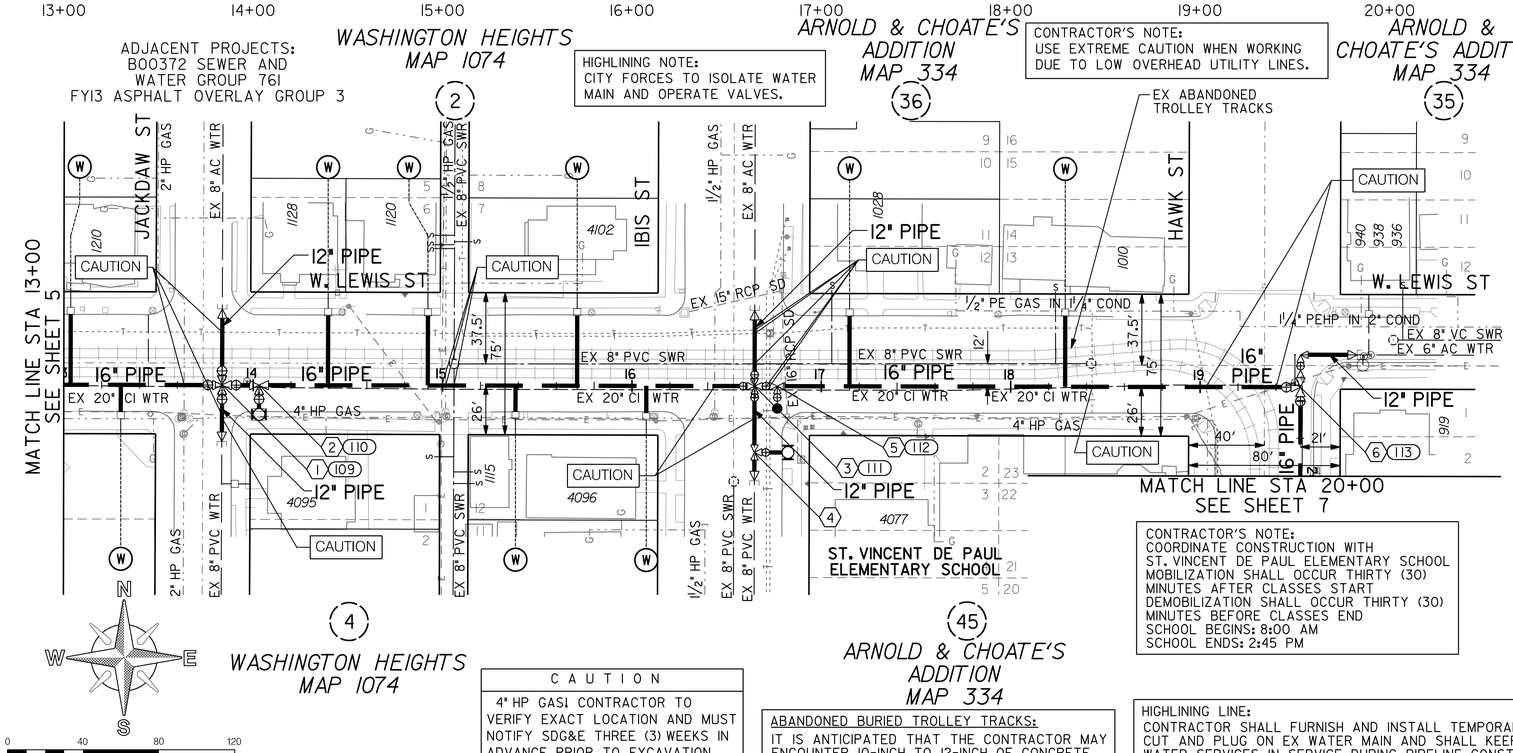


DETAIL C
HAWK ST. AT W. LEWIS ST.
NTS

REFERENCE:
WATER: 14331-5-D, 15598-5-D, 26549-9-D, 26549-10-D
SEWER: 13686-9-D, 26310-19-D, 26310-20-D, 26549-12-D, 26549-13-D
STORM DRAIN:
GAS: 22-306, 22-308, 22-396
ELECTRIC: 214-1713
CABLE TV:
TELEPHONE: un0502ac, un0502ad, un0502ca, un0502cb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI8S
THOMAS BROS.: 1268-H5
HGL: 463.95

RETIREMENTS:
20" - 700' CI 1915
FH (4-PORT) - 1
8" - 40' AC 1958
8" - 30' PVC 1998
8" - 40' AC 1971
8" - 50' PVC 1998
6" - 47' AC 1968
¾" SERVICE - 7
1" SERVICE - 1
UNKN SERVICE - 1

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.



CAUTION
4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

(1) (109)
BY CONTRACTOR
FURNISH & INSTALL
STA 13+83.55
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 30' RT
40' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

(2) (110)
BY CONTRACTOR
FURNISH & INSTALL
STA 14+03.09
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

(3) (111)
BY CONTRACTOR
FURNISH & INSTALL
STA 16+64.74
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 50' RT
40' - 12" CL305 PIPE, LT
50' - 12" CL305 PIPE, RT
SEE DETAIL B

(4)
BY CONTRACTOR
FURNISH & INSTALL
STA 16+64.74 (35' RT)
1 - 12"x12"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

(5) (112)
BY CONTRACTOR
FURNISH & INSTALL
STA 16+74.70
1 - 16"x16"x4" TEE (MJ, MJ, F) RT
1 - 4" BLOW-OFF ASSY

(6) (113)
BY CONTRACTOR
FURNISH & INSTALL
STA 19+53.00
1 - 16" TEE (F)
2 - 16" BFV (F, MJ) BK, RT
1 - 16"x12" (F) RED LT
1 - 12" GV (F, MJ) LT
1 - 12" 90° BEND (MJ) 17' LT
1 - 12"x6" RED (MJ) LT
17' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, AHD
SEE DETAIL C

PRESSURE ZONE: ALVARADO 536

C-3

UNIVERSITY AVE PIPELINE REPLACEMENT

W. LEWIS STREET / HAWK STREET

16" WATER PIPELINE A
PLAN AND PROFILE
STA 13+00 TO STA 20+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 06 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A

DESIGNED BY: F. Michael Bafous — PROJECT MANAGER
CHECKED BY: Francisco Rocha — PROJECT ENGINEER

214-1713 CCS27 COORDINATE
1854444-6274407 CCS83 COORDINATE

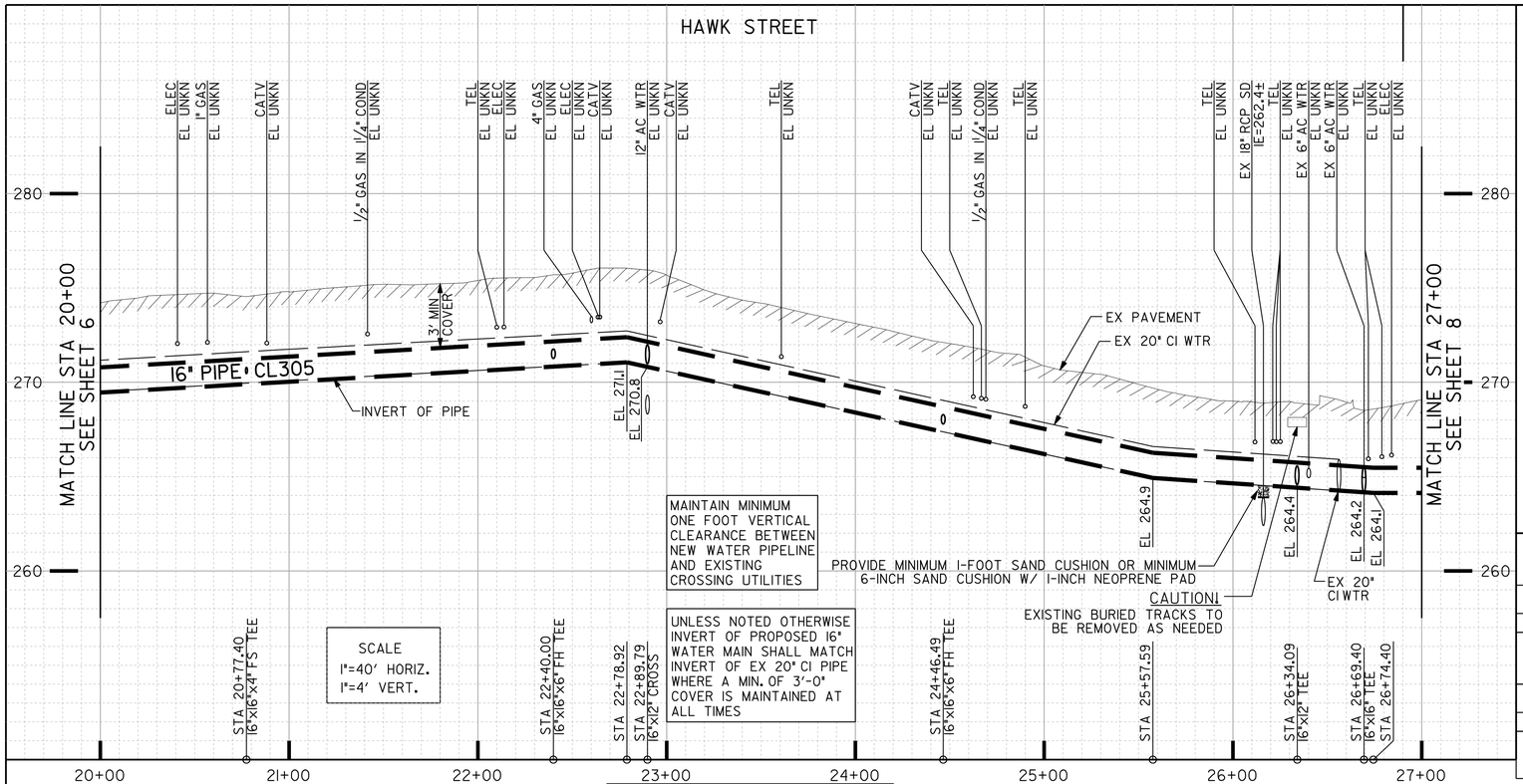
36656-06-D

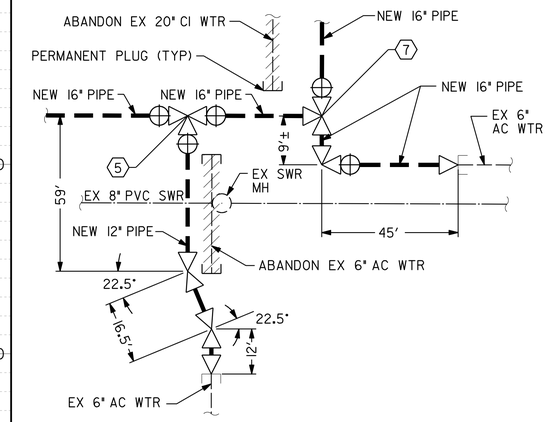
Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — DAVID JUDSON WILLIS — No. C45272 — Exp. 06-30-16 — CIVIL — STATE OF CALIFORNIA
06/09/2014

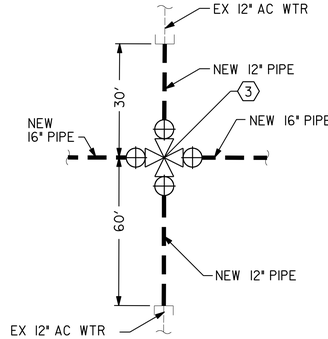
W. LEWIS STREET / HAWK STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C03.dgn
18-JUL-2014 15:02 therencia





DETAIL B
W. WASHINGTON ST. AT HAWK ST.
NTS



DETAIL A
FORT STOCKTON DR. AT HAWK ST.
NTS

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 20+00	STA 27+00	700

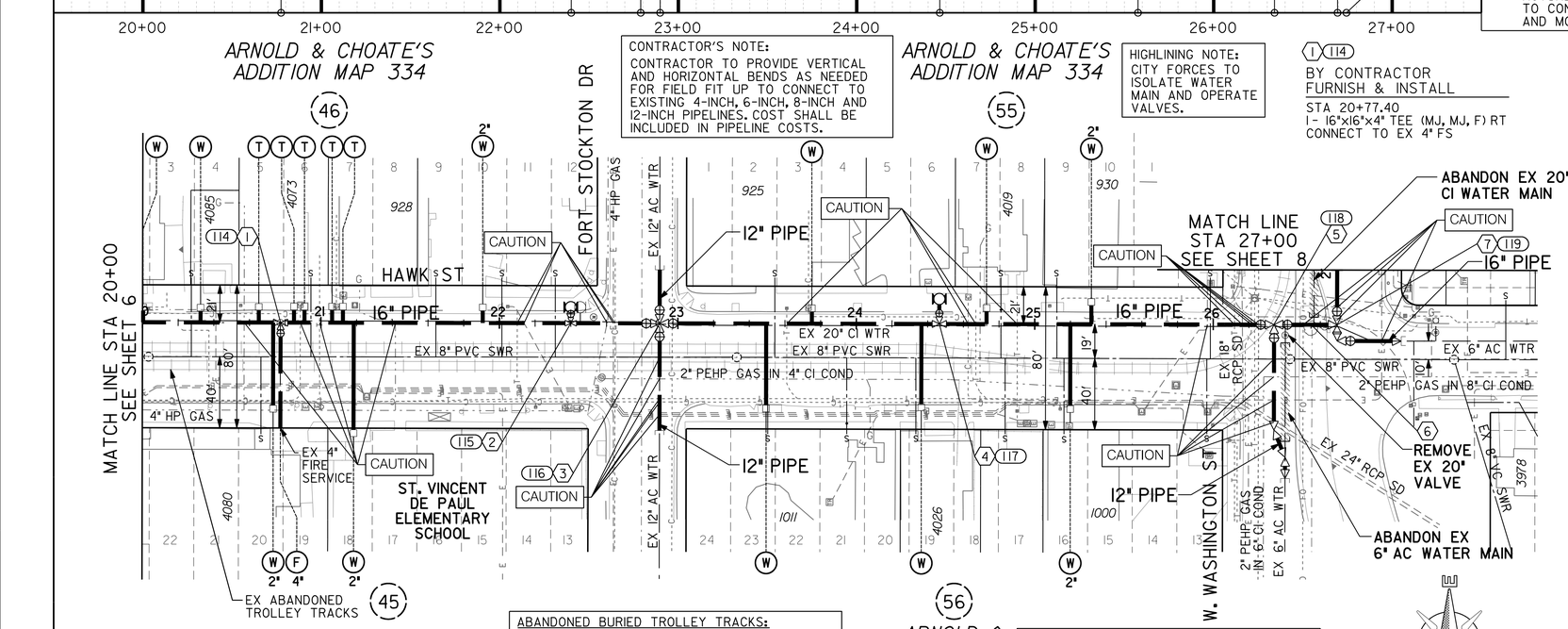
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 20+00	STA 27+00	700

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

REFERENCE:
WATER: 14524-L, 10296-7-D, 12593-D, 12749-3-D, 15598-5-D
SEWER: 26310-11-D, 26310-12-D, 26310-15-D, 26310-23-D, 26310-30-D
STORM DRAIN:
GAS: 22-332, 22-389, 22-392
ELECTRIC: 212-1716C
CABLE TV:
TELEPHONE: un0502da, un0502dc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI9S
THOMAS BROS.: 1268-J5
HGL: 464.30

RETIREMENTS:
20" - 660' CI 1915
FH (4-PORT) - 1
12" - 30' AC 1962
12" - 60' AC 1962
8" - 45' AC 1998
6" - 85' AC 1959
3/4" SERVICE - 5
1 1/2" SERVICE - 5
UNKN SERVICE - 3
8" FIRE SERVICE - 1- UNKN



CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

(1)(114) BY CONTRACTOR FURNISH & INSTALL
STA 20+77.40
1- 16"x16"x4" TEE (MJ, MJ, F) RT
CONNECT TO EX 4" FS

(2)(115) BY CONTRACTOR FURNISH & INSTALL
STA 22+40.00
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER

(3)(116) BY CONTRACTOR FURNISH & INSTALL
STA 22+89.81
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
30' - 12" CL305 PIPE, LT
60' - 12" CL305 PIPE, RT
SEE DETAIL A

(4)(117) BY CONTRACTOR FURNISH & INSTALL
STA 24+46.49
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

(5)(118) BY CONTRACTOR FURNISH & INSTALL
STA 26+34+09
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) RT
2 - 12" 22 1/2" BEND (MJ) 59.1 RT, 75.5' RT
1- 12"x6" RED (MJ) 85' RT
87' - 12" CL305 PIPE, RT
SEE DETAIL B

(6) BY CONTRACTOR
STA 26+54.84
REMOVE AND REPLACE EX TREE AND EX MEDIAN IN KIND

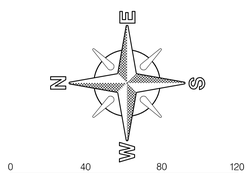
(7)(119) BY CONTRACTOR FURNISH & INSTALL
STA 26+69.40
1- 16" TEE (F)
2 - 16" ADAPTER, BK, AHD
1- 16" 90° BEND (MJ, F) RT
1- 16" BFV (F, MJ) RT
1- 16"x6" RED (MJ) 45' RT
1- 16" BFV (F, MJ) AHD
SEE DETAIL B

CAUTION
4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
COORDINATE CONSTRUCTION WITH ST. VINCENT DE PAUL ELEMENTARY SCHOOL
MOBILIZATION SHALL OCCUR THIRTY (30) MINUTES AFTER CLASSES START
DEMOBILIZATION SHALL OCCUR THIRTY (30) MINUTES BEFORE CLASSES END
SCHOOL BEGINS: 8:00 AM
SCHOOL ENDS: 2:45 PM



PRESSURE ZONE: ALVARADO 536

C-4

UNIVERSITY AVE PIPELINE REPLACEMENT

HAWK STREET

16" WATER PIPELINE A
PLAN AND PROFILE
STA 20+00 TO STA 27+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 07 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) 6-9-2014 DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

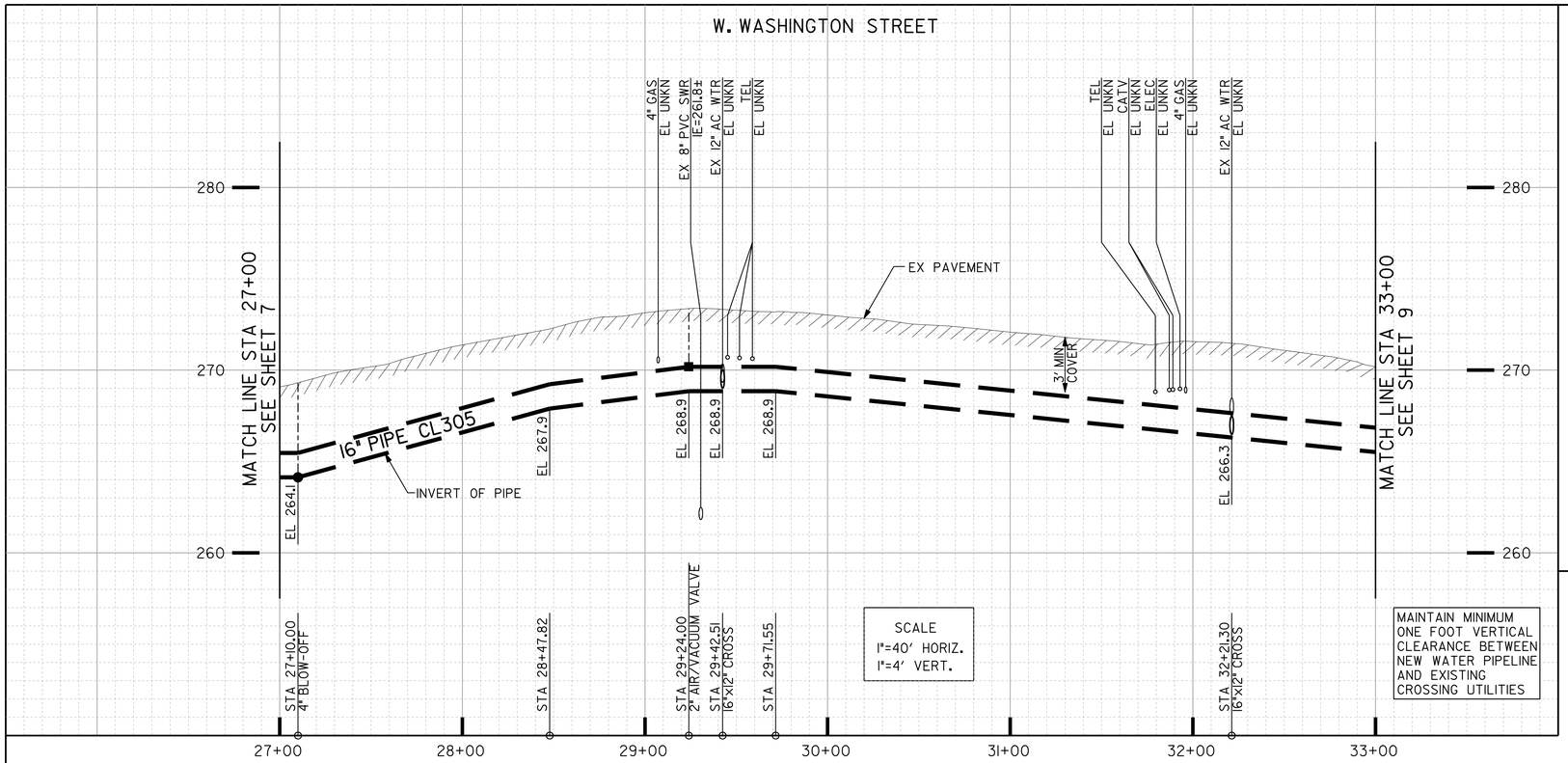
Brown AND Caldwell

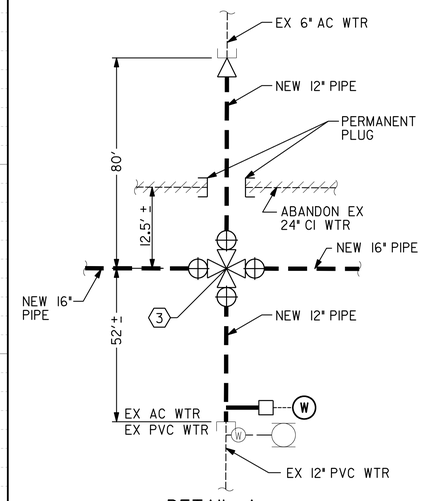
REGISTERED PROFESSIONAL ENGINEER JUDSON W. WHITE No. CA5272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

WATER WBS	S-11021
SEWER WBS	N/A
DESIGNED BY	F. Michael Bogosian, PROJECT MANAGER
CHECKED BY	Thomas Boehm, PROJECT ENGINEER
	210-1713 CCS27 COORDINATE
	1850444-6274407 CCS83 COORDINATE
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
	36656-07-D

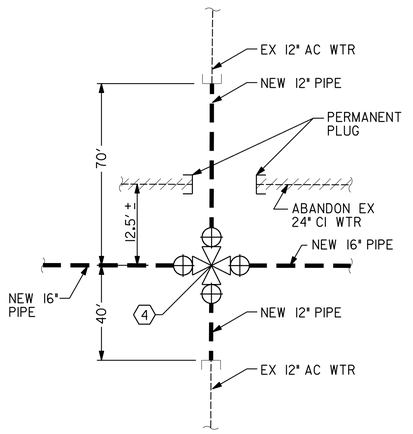
HAWK STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C04.dgn
18-JUL-2014 15:02 therencia





DETAIL A
GOLDFINCH ST. AT W. WASHINGTON ST.
NTS



DETAIL B
FALCON ST. AT W. WASHINGTON ST.
NTS

RETIREMENTS:
24" - 357.7' CI 1915
20" - 242.3' CI 1915
12" - 67.5' AC 1959
12" - 64.5' AC 1959
12" - 57.5' AC 1959
12" - 52.5' AC 1959
¾" SERVICE - 3
1" SERVICE - 1
UNKN SERVICE - 2

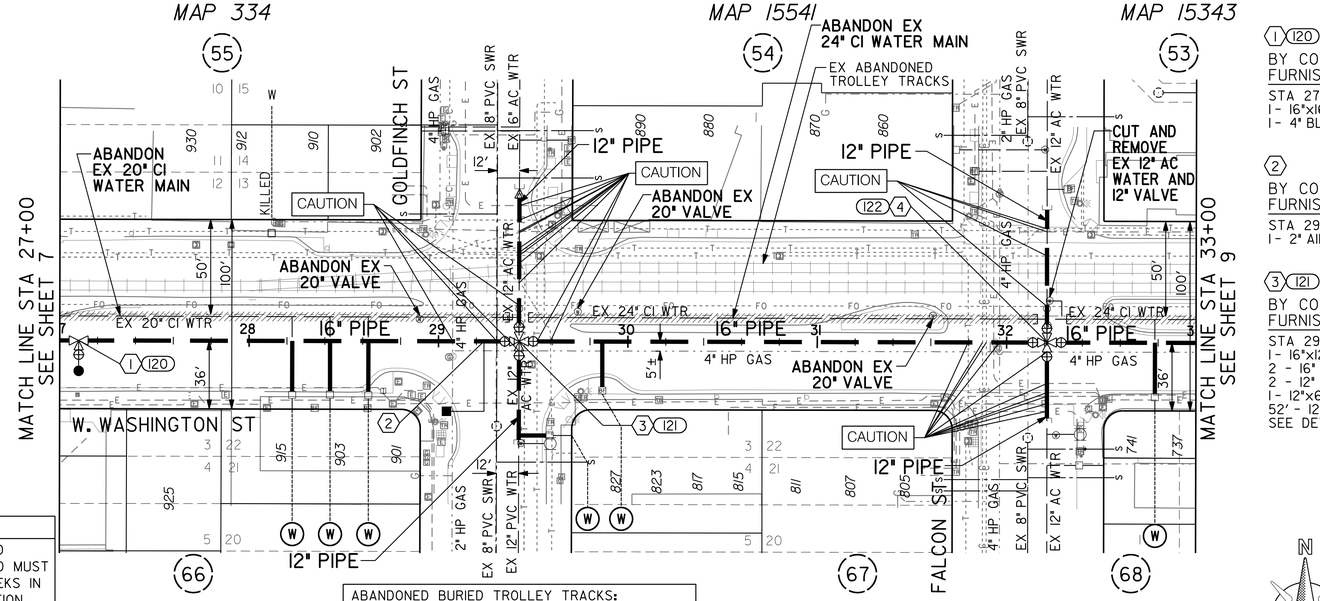
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 27+00	STA 33+00	600

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 27+00	STA 33+00	600

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.



1 (120)
BY CONTRACTOR
FURNISH & INSTALL
STA 27+10.00
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" BLOW-OFF ASSY

2
BY CONTRACTOR
FURNISH & INSTALL
STA 29+24.00
1- 2" AIR/VACUUM VALVE ASSY, RT

3 (121)
BY CONTRACTOR
FURNISH & INSTALL
STA 29+42.51
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ BK, AHD
2 - 12" GV (F, MJ) LT, RT
1- 12"x6" RED (MJ) 80' LT
52' - 12" CL305 PIPE, RT
SEE DETAIL A

4 (122)
BY CONTRACTOR
FURNISH & INSTALL
STA 32+21.30
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ BK, AHD
2 - 12" GV (F, MJ) LT, RT
70' - 12" CL305 PIPE, LT
40' - 12" CL305 PIPE, RT
SEE DETAIL B

REFERENCE:
WATER: 14524-L, 14543-L, 8353-W, 8060-2-W, 12749-3-D, 15598-5-D, 26310-2-D,
SEWER: 26310-7-D, 26310-8-D, 26310-9-D, 26310-10-D, 26310-12-D, 26310-15-D, 26310-30-D
STORM DRAIN:
GAS: 22-331, 22-332
ELECTRIC: 212-1716C
CABLE TV:
TELEPHONE: un0302cc, un050lba, un0502dc, un0502dd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: F19S
THOMAS BROS.: 1268-J5
HGL: 464.50

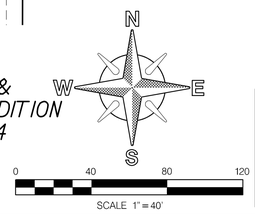
CAUTION
4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WARREN
NO. C43272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-5

UNIVERSITY AVE PIPELINE REPLACEMENT

W. WASHINGTON STREET
16" WATER PIPELINE A
PLAN AND PROFILE
STA 27+00 TO STA 33+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 08 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014
DESIGNED BY: F. Michael Bagoua PROJECT MANAGER
CONTACT: Francisco Gaeta PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

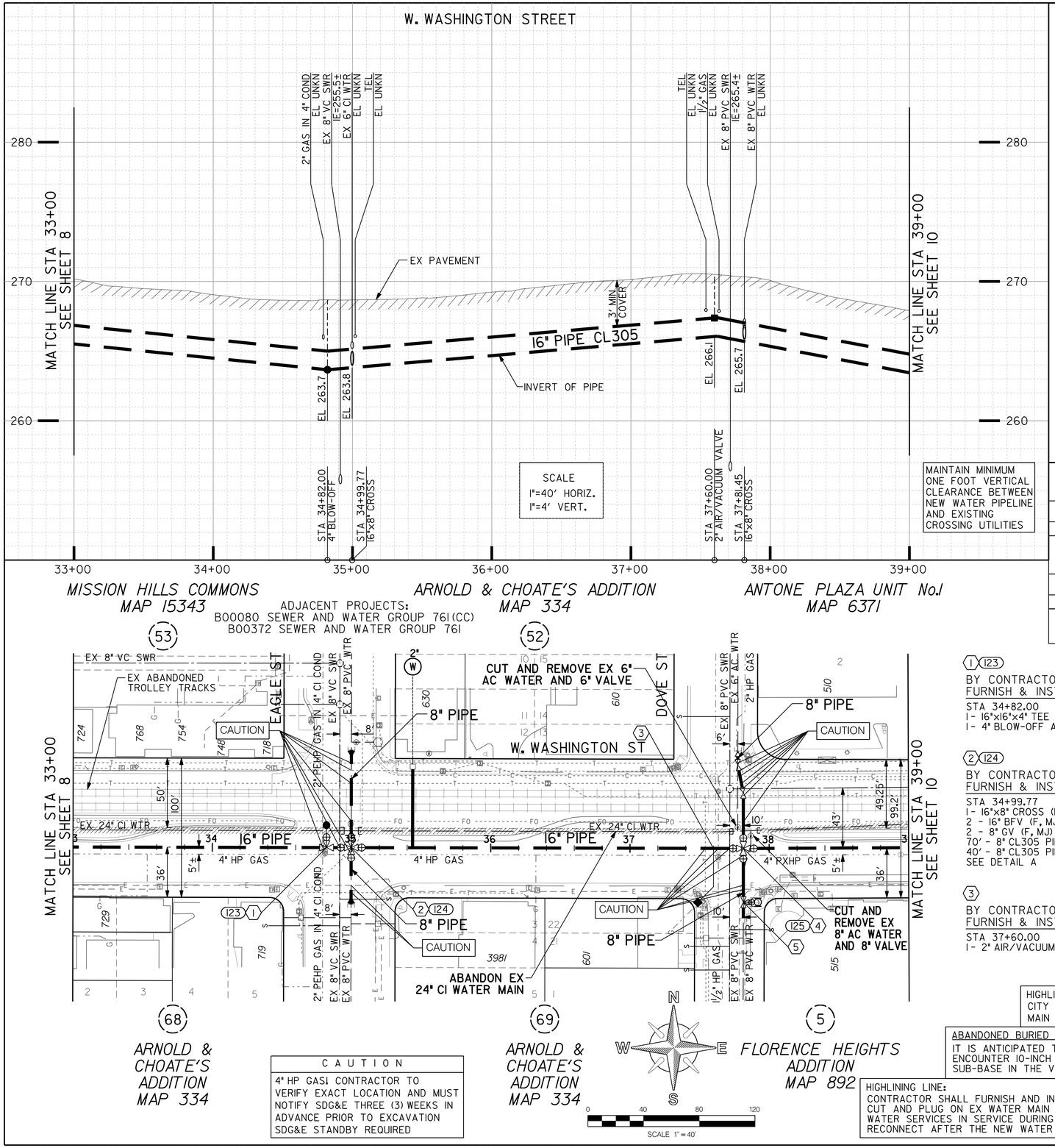
210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

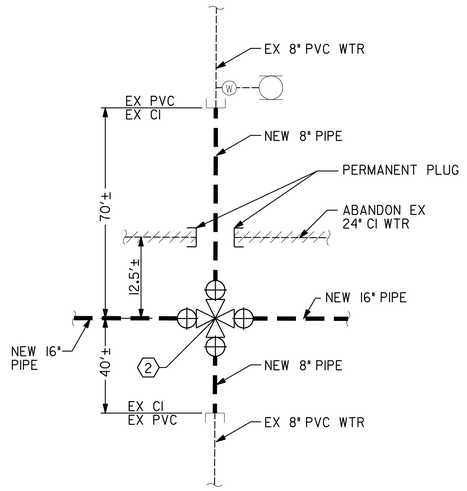
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-08 -D

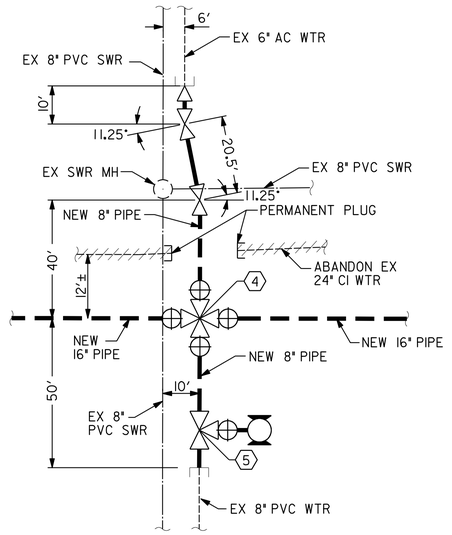
W. WASHINGTON STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C05.dgn
18-JUL-2014 15:03 therencia





DETAIL A
EAGLE ST. AT W. WASHINGTON ST.
NTS



DETAIL B
DOVE ST. AT W. WASHINGTON ST.
NTS

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 33+00	STA 39+00	600

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 33+00	STA 39+00	600

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

REFERENCE:
WATER: 8353-W, 8354-W, 10798-9-D, 15598-5-D, 22247-10-D
SEWER: 16151-4-D, 22247-10-D, 22247-11-D
STORM DRAIN: 13598-3-D
GAS: 22-330, 22-335
ELECTRIC: 212-1716D
CABLE TV:
TELEPHONE: un0302cc, un0302cd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI9S
THOMAS BROS.: 1268-J5
HGL: 465.05

RETIREMENTS:
24" - 600' CI 1915
FH (4-PORT) - 1
6" - 57.5' CI 1963
6" - 52.5' CI 1963
6" - 58' AC 1959
6" - 62' AC 1959
1½" SERVICE - 1

(1)(123)
BY CONTRACTOR
FURNISH & INSTALL
STA 34+82.00
1 - 16"x16"x4" TEE (MJ, MJ, F) LT
1 - 4" BLOW-OFF ASSY

(2)(124)
BY CONTRACTOR
FURNISH & INSTALL
STA 34+99.77
1 - 16"x8" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 8" GV (F, MJ) LT, RT
70' - 8" CL305 PIPE, LT
40' - 8" CL305 PIPE, RT
SEE DETAIL A

(3)
BY CONTRACTOR
FURNISH & INSTALL
STA 37+60.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

(4)(125)
BY CONTRACTOR
FURNISH & INSTALL
STA 37+81.45
1 - 16"x8" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 8" GV (F, MJ) LT, RT
2 - 8" 11¼° BEND (MJ) 39.8' LT & 60.3' LT
1 - 8"x6" RED (MJ) 70' LT
70' - 8" CL305 PIPE, LT
50' - 8" CL305 PIPE, RT
SEE DETAIL B

(5)
BY CONTRACTOR
FURNISH & INSTALL
STA 37+81.46
1 - 8"x8"x6" TEE (MJ, MJ, F) 38.6' RT
1 - 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

CAUTION
4" HP GAS: CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JEFFREY JUDSON WILLIAMS
No. CA5272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE:
ALVARADO 536
C-6

UNIVERSITY AVE PIPELINE REPLACEMENT

W. WASHINGTON STREET

16" WATER PIPELINE A
PLAN AND PROFILE
STA 33+00 TO STA 39+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 09 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH, PRINT NAME — DATE 6-9-2014
DESIGNED BY: F. Michael Bogosian, PROJECT MANAGER
CHECKED BY: Francisco Rodriguez, PROJECT ENGINEER

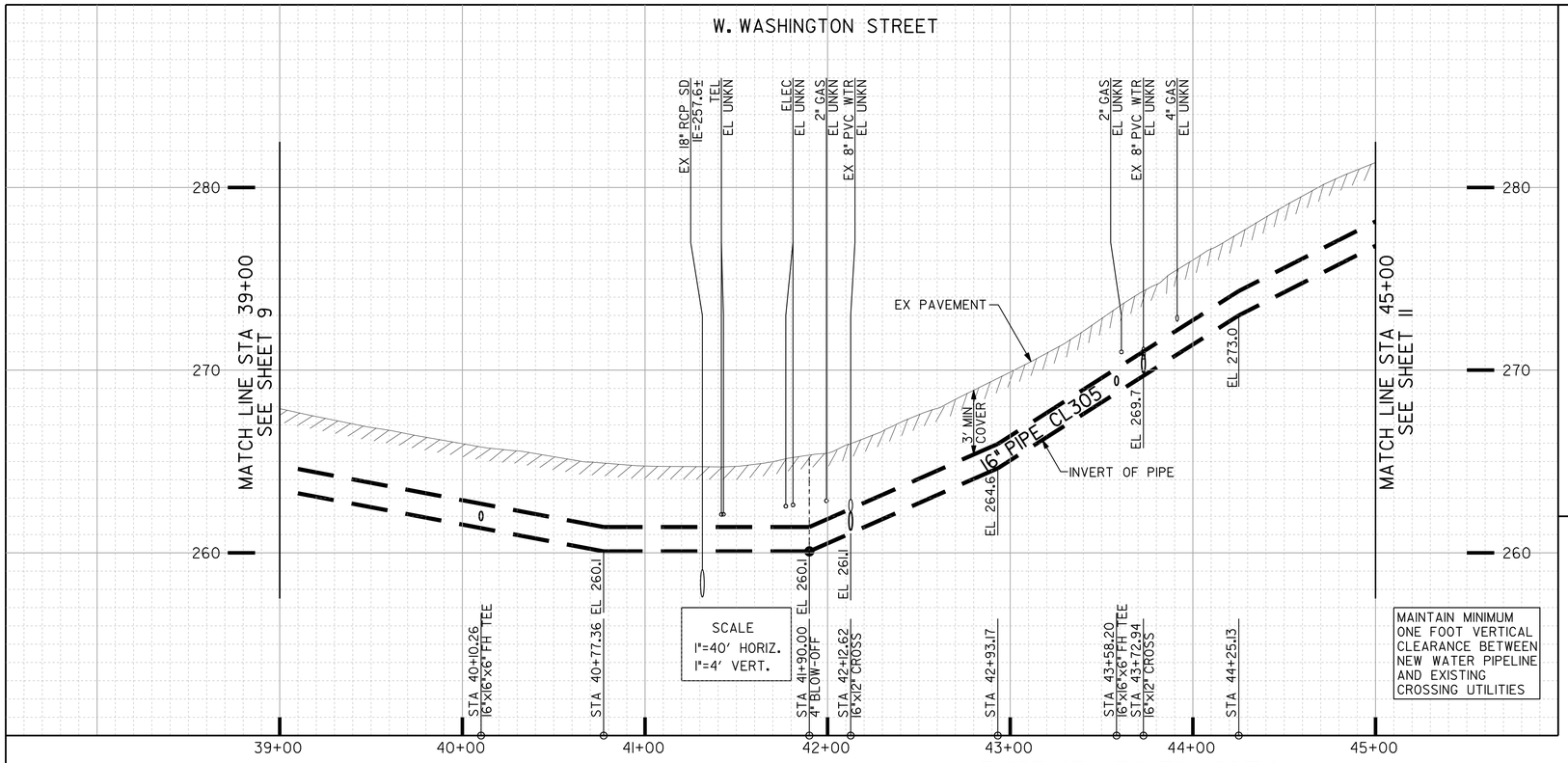
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

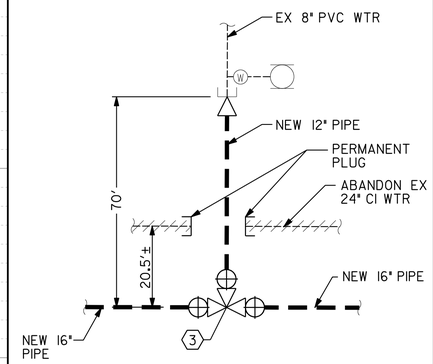
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE
36656-09-D

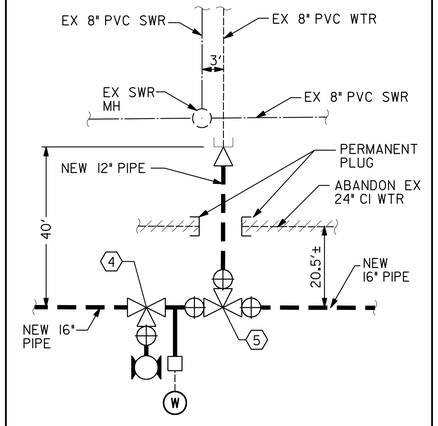
W. WASHINGTON STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C06.dgn
18-JUL-2014 15:04 therencia





DETAIL A
BRANT ST. AT W. WASHINGTON ST.
NTS

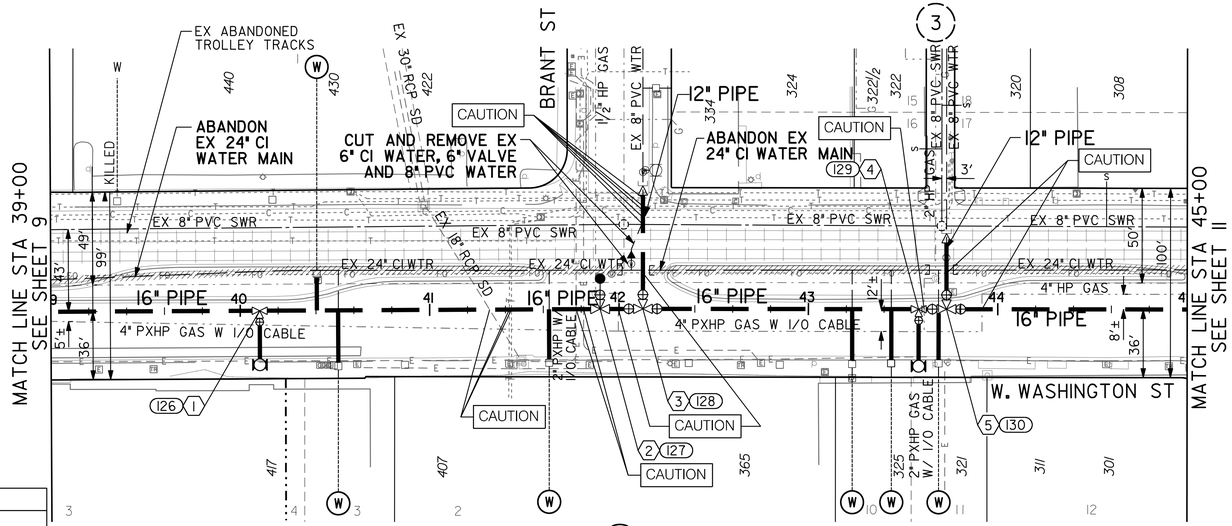


DETAIL B
ALLEY AT W. WASHINGTON ST.
NTS

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 39+00	STA 45+00	600

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 39+00	STA 45+00	600

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.



ANTONE PLAZA UNIT No.1
MAP 6371

FLORENCE HEIGHTS ADDITION
MAP 892

1 126
BY CONTRACTOR
FURNISH & INSTALL
STA 40+10.26
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

2 127
BY CONTRACTOR
FURNISH & INSTALL
STA 41+90.00
1- 16"x16"x4" TEE (MJ, MJ, F) LT
1- 4" BLOW-OFF ASSY

3 128
BY CONTRACTOR
FURNISH & INSTALL
STA 42+12.62
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
1- 12"x8" RED (MJ) 70' LT
70' - 12" CL305 PIPE, LT
SEE DETAIL A

4 129
BY CONTRACTOR
FURNISH & INSTALL
STA 43+58.20
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

5 130
BY CONTRACTOR
FURNISH & INSTALL
STA 43+72.94
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
1- 12"x8" RED (MJ) 40' LT
40' - 12" CL305 PIPE, LT
SEE DETAIL B

REFERENCE:
WATER: 15598-5-D, 22247-12-D, 22247-13-D, 26527-5-D, 26527-9-D, 26527-11-D,
SEWER: 22247-11-D, 22247-12-D, 22247-13-D, 26527-25-D, 30280-3-D, 30280-4-D
STORM DRAIN:
GAS: 22-294, 22-336, 22-337
ELECTRIC: 212-1716D
CABLE TV:
TELEPHONE: un0302cd, un0302dc, un0302dd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI9S
THOMAS BROS.: 1268-J5, 1269-A5
HGL: 465.75

RETIREMENTS:
24" - 600' CI 1915
8" - 40' PVC 1996
6" - 10' CI 1952
8" - 20' PVC 1987
1/2" SERVICE - 2
1" SERVICE - 1
UNKN SERVICE - 4

PRESSURE ZONE: ALVARADO 536

C-7

CAUTION

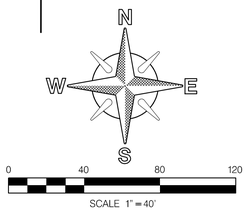
4" HP GAS: CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WARREN
NO. C43272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

W. WASHINGTON STREET

16" WATER PIPELINE A
PLAN AND PROFILE
STA 39+00 TO STA 45+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 10 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014

WATER WBS S-11021
SEWER WBS N/A

DESIGNED BY F. Michael Bakowa — PROJECT MANAGER
CHECKED BY Francisco Mendoza — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1713
CCS27 COORDINATE

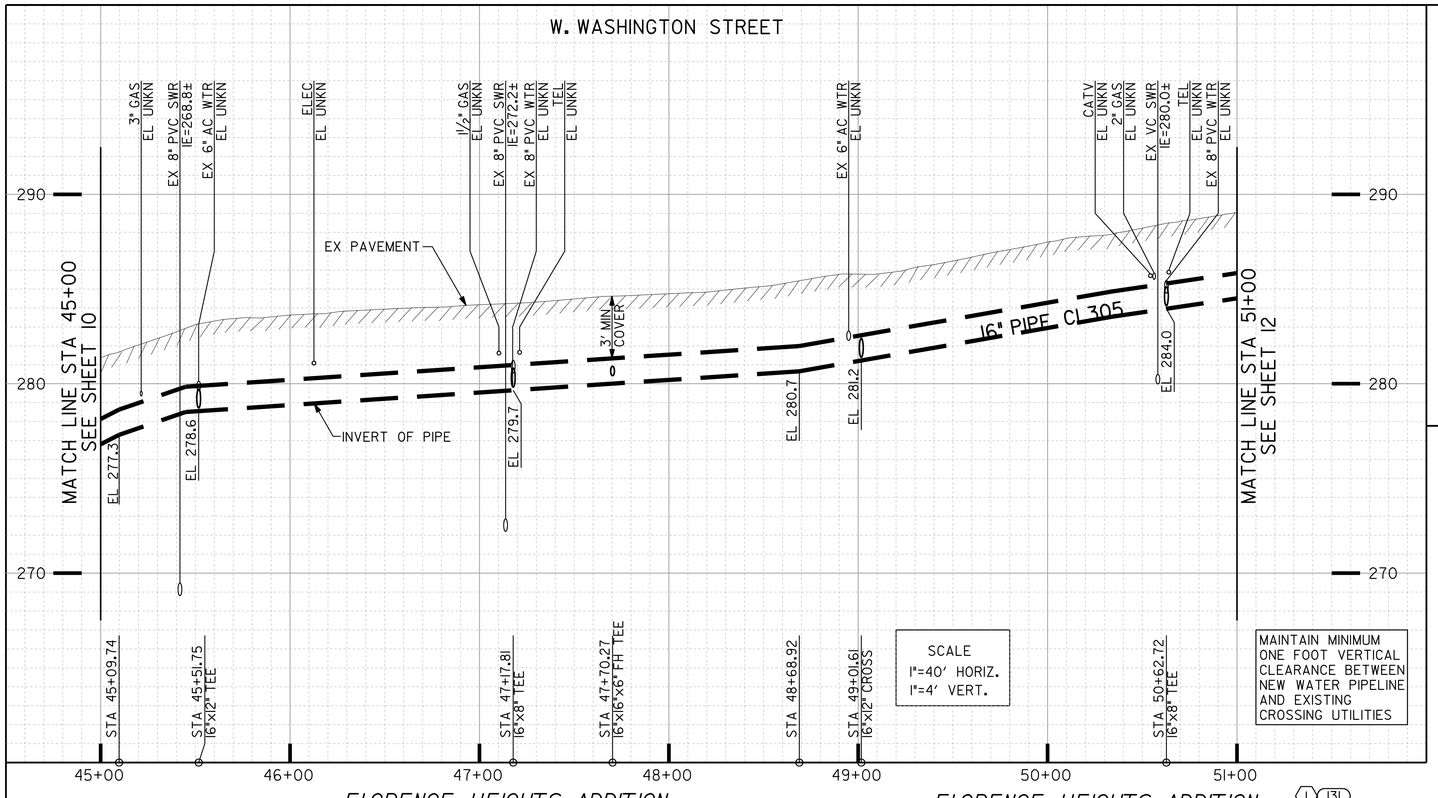
1850444-6274407
CCS83 COORDINATE

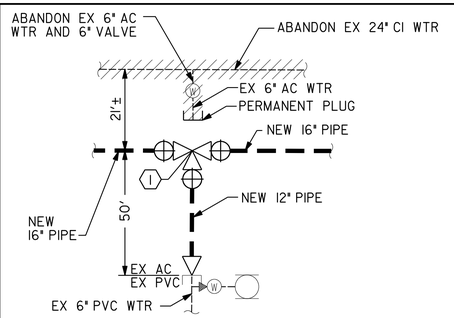
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-10-D

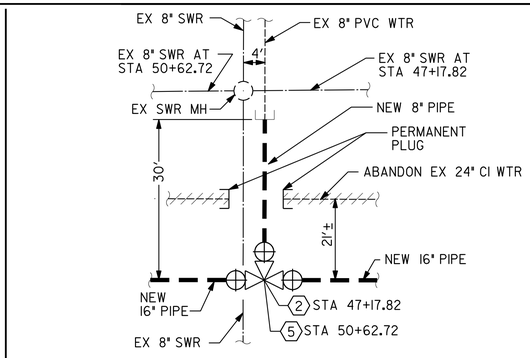
W. WASHINGTON STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C07.dgn
18-JUL-2014 15:05 therencia





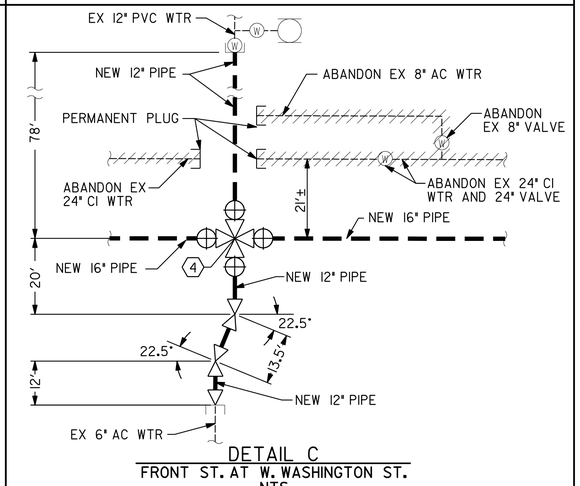
DETAIL A
ALBATROSS ST. AT W. WASHINGTON ST.
NTS



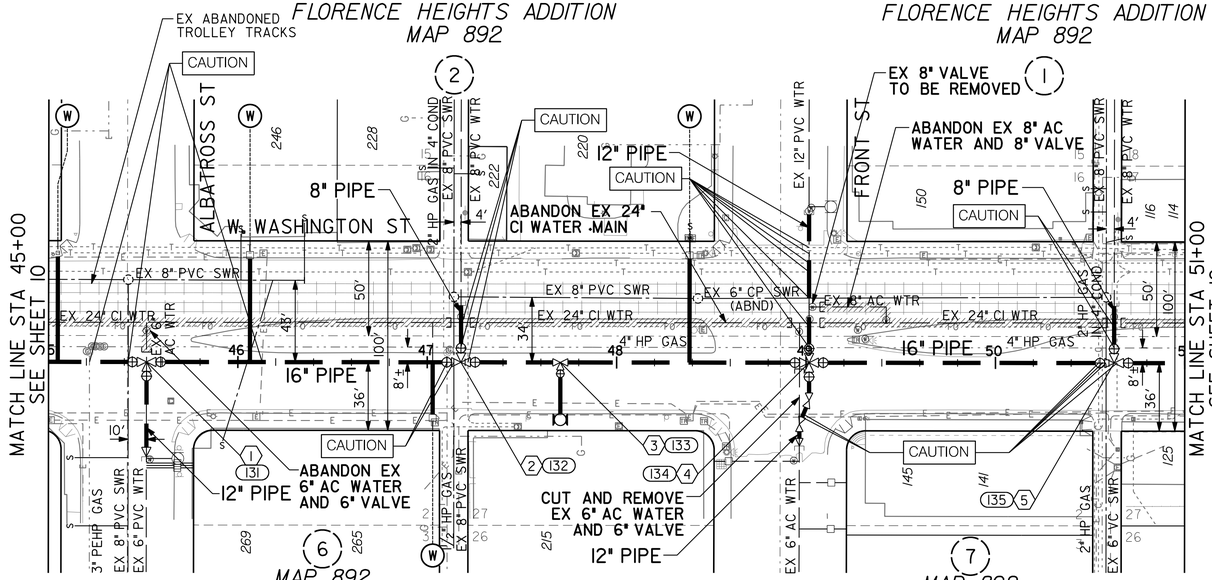
DETAIL B
ALLEYS AT W. WASHINGTON ST.
NTS

REFERENCE:

WATER: 15598-5-D, 22247-12-D, 22247-13-D, 26527-5-D, 26527-9-D, 26527-11-D,
SEWER: 22247-11-D, 22247-12-D, 22247-13-D, 26527-25-D, 30280-3-D, 30280-4-D
STORM DRAIN:
GAS: 22-294, 22-336, 22-337
ELECTRIC: 212-1716D
CABLE TV:
TELEPHONE: un0302cd, un0302dc, un0302dd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: FI9S
THOMAS BROS.: 1268-J5, 1269-A5
HGL: 466.11



DETAIL C
FRONT ST. AT W. WASHINGTON ST.
NTS



1 (131)
BY CONTRACTOR
FURNISH & INSTALL

STA 45+51.75
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) RT
1 - 12"x6" RED (MJ) 50' RT
50' - 12" CL305 PIPE, RT
SEE DETAIL A

2 (132)
BY CONTRACTOR
FURNISH & INSTALL

STA 47+17.81
1 - 16"x8" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 8" GV (F, MJ) LT
30' - 8" CL305 PIPE, LT
SEE DETAIL B

3 (133)
BY CONTRACTOR
FURNISH & INSTALL

STA 47+70.27
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

4 (134)
BY CONTRACTOR
FURNISH & INSTALL

STA 49+01.61
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12" 22½° BEND (MJ) 20' & 33.4' RT
1 - 12"x6" RED (MJ) 45' RT
78' - 12" CL305 PIPE, LT
45' - 12" CL305 PIPE, RT
SEE DETAIL C

5 (135)
BY CONTRACTOR
FURNISH & INSTALL

STA 50+62.72
1 - 16"x8" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 8" GV (F, MJ) LT
30' - 8" CL305 PIPE, LT
SEE DETAIL B

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 45+00	STA 51+00	600

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 45+00	STA 51+00	600

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

RETIREMENTS:

24" - 600' CI 1915
6" - 71' AC 1959
8" - 9' PVC 1996
12" - 57' CI 1931
8" - 50' AC 1959
6" - 65' AC 1959
8" - 9' PVC 1996
¾" SERVICE - 1
UNKN SERVICE - 3

PRESSURE ZONE: ALVARADO 536

C-8

CAUTION

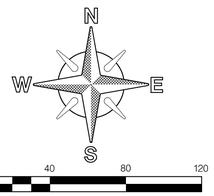
4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WARD
No. C45272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

W. WASHINGTON STREET

UNIVERSITY AVE PIPELINE REPLACEMENT

W. WASHINGTON STREET
16" WATER PIPELINE A
PLAN AND PROFILE
STA 45+00 TO STA 51+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 11 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

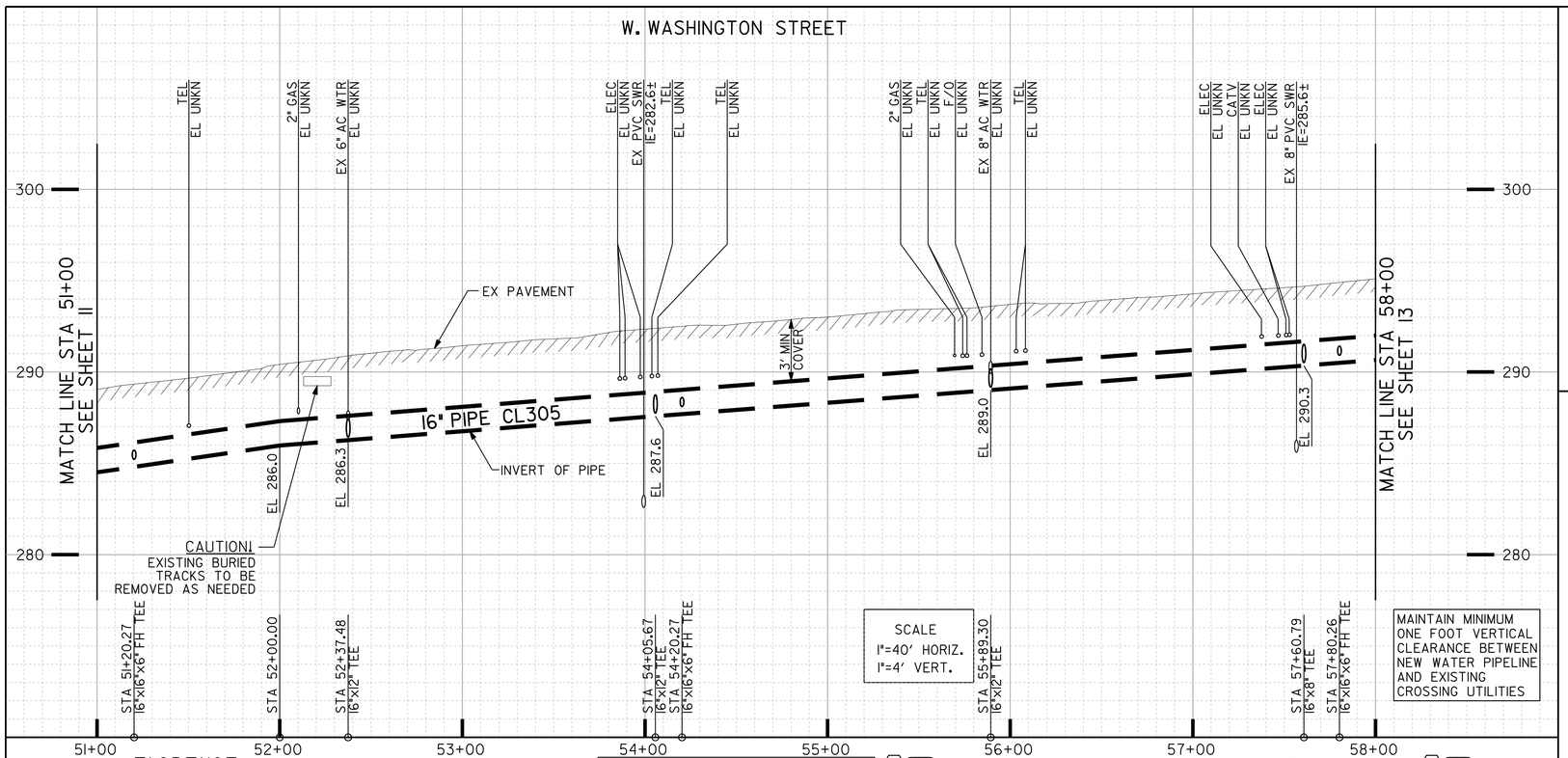
APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 DATE
DESIGNED BY F. Michael Bafouna PROJECT MANAGER
CHECKED BY Francisco Rodriguez PROJECT ENGINEER

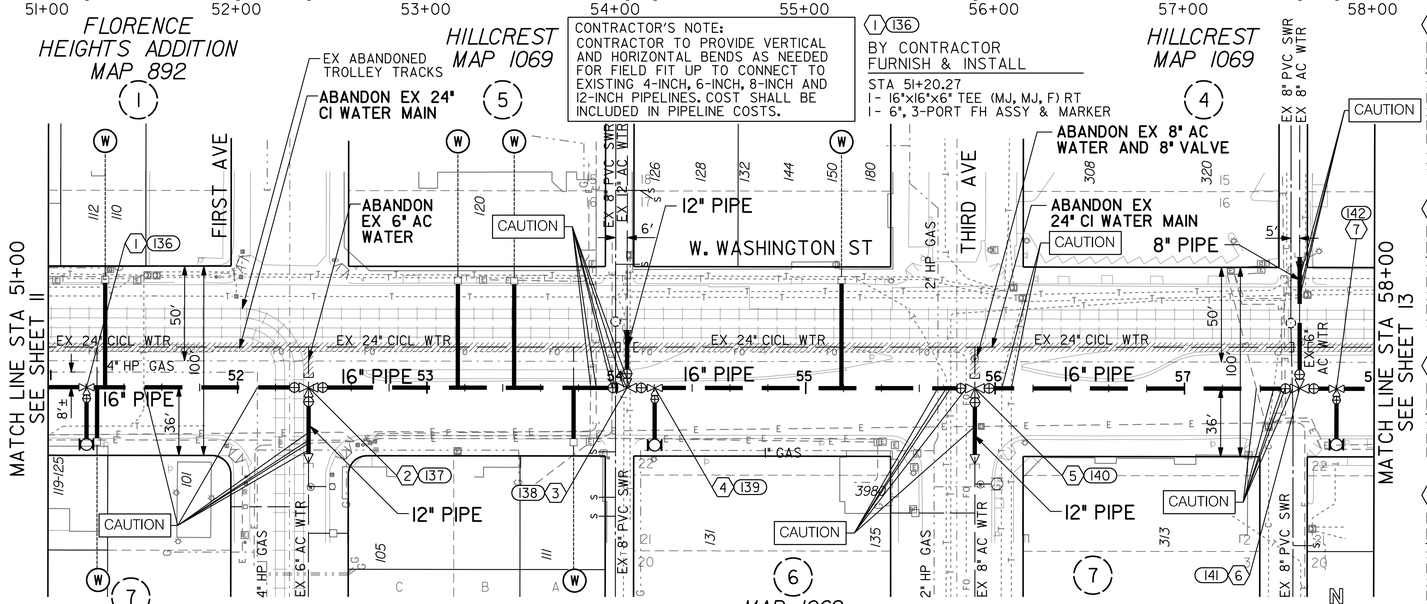
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-11-D





CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

C A U T I O N

4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

N W E S
0 40 80 120
SCALE 1" = 40'

1 (136) BY CONTRACTOR FURNISH & INSTALL
STA 51+20.27
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

2 (137) BY CONTRACTOR FURNISH & INSTALL
STA 52+37.48
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) RT
1 - 12"x6" RED (MJ) 40' RT
40' - 12" CL305 PIPE, RT
SEE DETAIL A

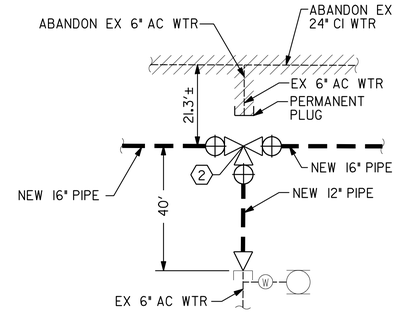
3 (138) BY CONTRACTOR FURNISH & INSTALL
STA 54+05.67
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
SEE DETAIL B

4 (139) BY CONTRACTOR FURNISH & INSTALL
STA 54+20.27
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

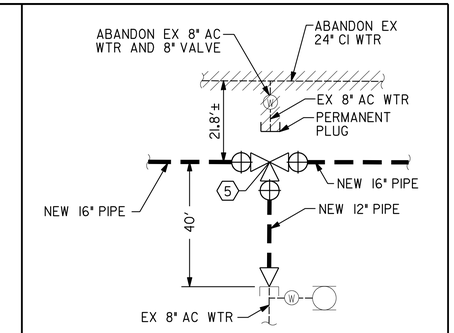
5 (140) BY CONTRACTOR FURNISH & INSTALL
STA 55+89.30
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) RT
1 - 12"x8" RED (MJ) 40' RT
40' - 12" CL305 PIPE, RT
SEE DETAIL C

6 (141) BY CONTRACTOR FURNISH & INSTALL
STA 57+60.79
1 - 16"x8" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 8" GV (F, MJ) LT
70' - 8" CL305 PIPE, LT
SEE DETAIL D

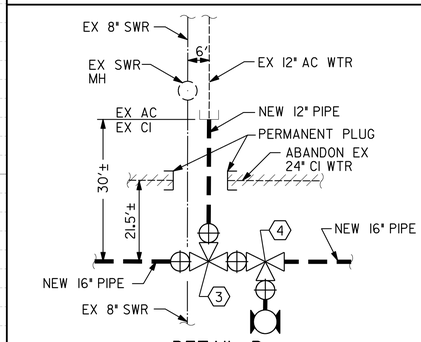
7 (142) BY CONTRACTOR FURNISH & INSTALL
STA 57+80.26
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER



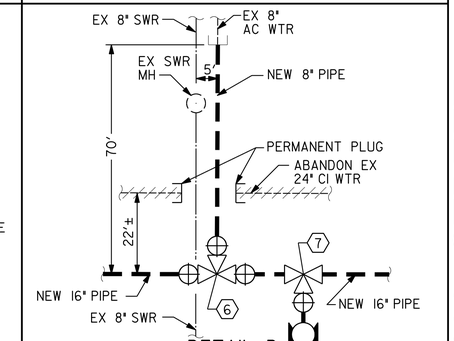
DETAIL A
FIRST AVE. AT W. WASHINGTON ST.
NTS



DETAIL C
THIRD AVE. AT W. WASHINGTON ST.
NTS



DETAIL B
ALLEY AT W. WASHINGTON ST.
NTS



DETAIL D
ALLEY AT W. WASHINGTON ST.
NTS

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 51+00	STA 58+00	700

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA 51+00	STA 58+00	700

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

REFERENCE:
WATER: 8354-W, 12749-15-D, 15598-4-D, 20548-11-D, 22706-16-D, 26527-15-D
SEWER: 9272-L, 22706-10-D, 26527-27-D, 30503-6-D
STORM DRAIN:
GAS: 22-337, 22-338, 22-339
ELECTRIC: 212-1719C
CABLE TV:
TELEPHONE: un0102cc, un0302dd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-A5
HGL: 466.60

PRESSURE ZONE: ALVARADO 536

C-9

RETIREMENTS:
24" - 600' CICL 1915
6" - 61' AC 1959
8" - 9' CI 1921
8" - 62' AC 1959
6" - 48' AC 1959
3/4" SERVICE - 2
2" SERVICE - 1
UNKN SERVICE - 3

UNIVERSITY AVE PIPELINE REPLACEMENT

W. WASHINGTON STREET

16" WATER PIPELINE A
PLAN AND PROFILE
STA 51+00 TO STA 58+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 12 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

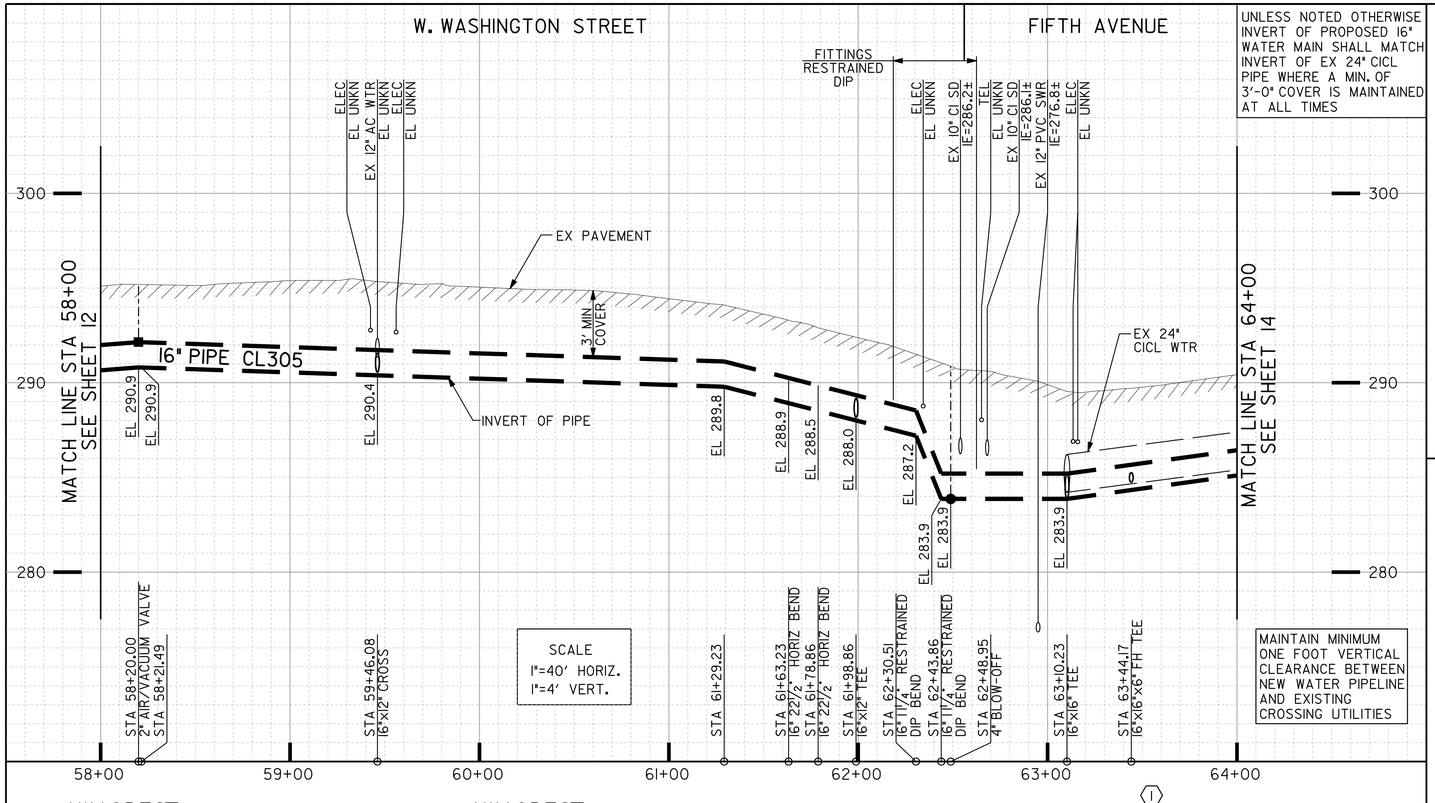
WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY: F. Michael Bagoua, PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____
36656-12-D

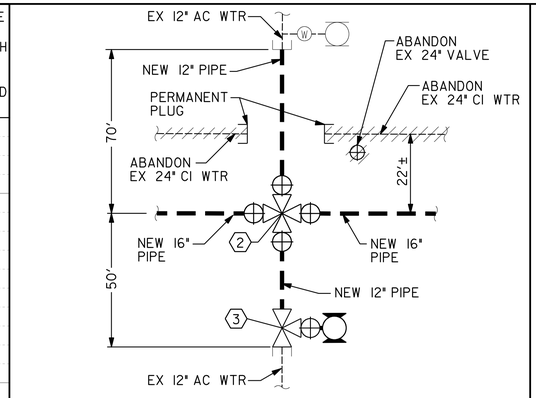
Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — JUDSON WARREN — No. C45272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA
06/09/2014

W. WASHINGTON STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C09.dgn
18-JUL-2014 15:06 therencia





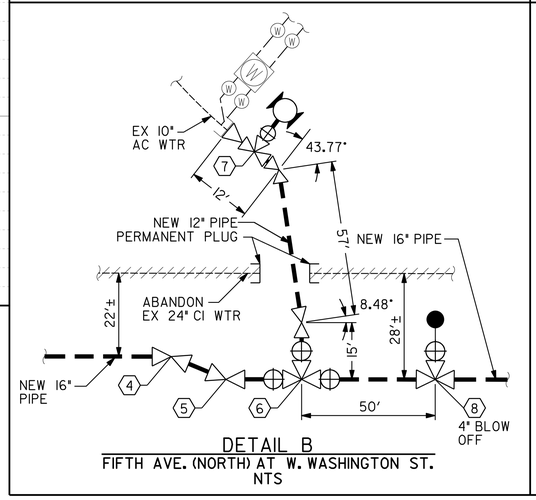
DETAIL A
FOURTH AVE. AT W. WASHINGTON ST.
NTS

REFERENCE:

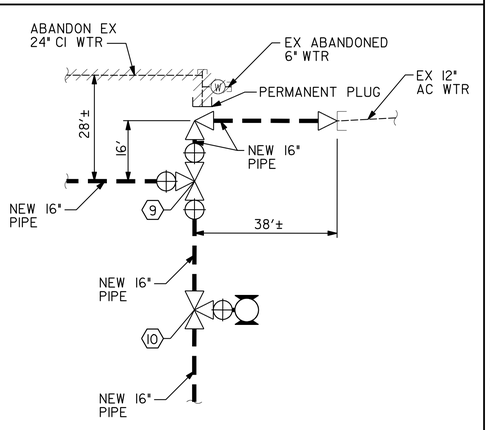
WATER: 8355-W, 7272-D, 15598-4-D, 17437-2-D, 18054-5-D, 11934-2-D, 24760-15-D
SEWER: 122706-11-D, 22247-4-D, 22706-10-D, 122706-12-D
STORM DRAIN: 6151-1-R
GAS: 22-289, 22-341
ELECTRIC: 212-1719C
CABLE TV:
TELEPHONE: un0102cd, un0102dc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-A5
HGL: 467.38

RETIREMENTS:

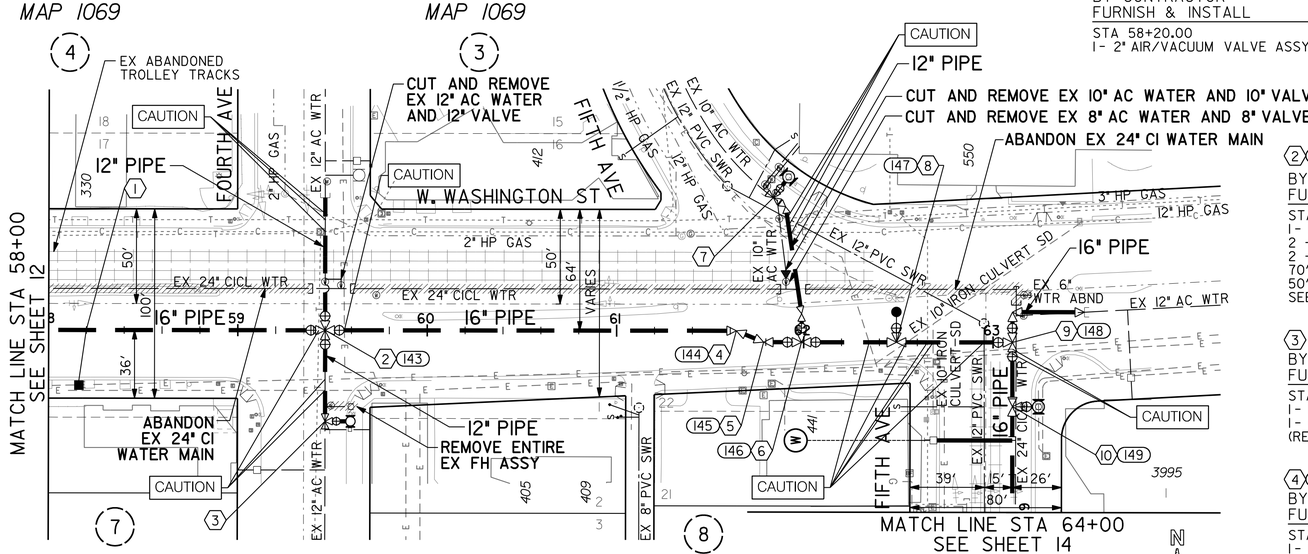
24" - 628' CICL 1915
FH (4-PORT) - 1
12" - 61' AC 1959
12" - 72' AC 1959
8" - 5' AC 1959
10" - 48' AC 1965
12" - 36' AC 1993
UNKN SERVICE - 1



DETAIL B
FIFTH AVE. (NORTH) AT W. WASHINGTON ST.
NTS



DETAIL C
FIFTH AVE. (SOUTH) AT W. WASHINGTON ST.
NTS



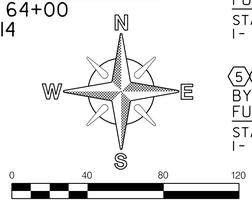
CAUTION
12" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.



1 BY CONTRACTOR
FURNISH & INSTALL
STA 58+20.00
1- 2" AIR/VACUUM VALVE ASSY, RT

2 143 BY CONTRACTOR
FURNISH & INSTALL
STA 59+46.08
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
70' - 12" CL305 PIPE, LT
50' - 12" CL305 PIPE, RT
SEE DETAIL A

3 BY CONTRACTOR
FURNISH & INSTALL
STA 59+46.08 (48' RT)
1- 12"x12"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)

4 144 BY CONTRACTOR
FURNISH & INSTALL
STA 61+63.23
1- 16" 22½° BEND (MJ)

5 145 BY CONTRACTOR
FURNISH & INSTALL
STA 61+78.86
1- 16" 22½° BEND (MJ)

6 146 BY CONTRACTOR
FURNISH & INSTALL
STA 61+98.86
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
1- 12" 11¼° BEND (MJ) 15' LT
1- 12" 45° BEND (MJ) 72.2' LT
1- 12"x10" REDUCER (MJ) 80' LT
80' - 12" CL305 PIPE, LT
SEE DETAIL B

7 BY CONTRACTOR
FURNISH & INSTALL
STA 61+98.86 (80' LT)
1- 12"x12"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)

8 147 BY CONTRACTOR
FURNISH & INSTALL
STA 62+48.95
1- 4" BLOW-OFF ASSY, LT

9 148 BY CONTRACTOR
FURNISH & INSTALL
STA 63+10.23
1- 16" TEE (F)
3 - 16" BFV (F, MJ) BK, AHD, LT
1- 90° BEND (MJ) 16' LT
1- 16"x12" RED 52' LT
52' - 12" CL305 PIPE, LT
SEE DETAIL C

10 149 BY CONTRACTOR
FURNISH & INSTALL
STA 63+44.17
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)

PRESSURE ZONE: ALVARADO 536

C-10

UNIVERSITY AVE PIPELINE REPLACEMENT

W. WASHINGTON STREET /FIFTH AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 58+00 TO STA 64+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 13 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — DATE 6-9-2014

WATER WBS S-11021
SEWER WBS N/A

DESIGNED BY: F. Michael Bafous, PROJECT MANAGER
CHECKED BY: Francisco Rodriguez, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-13-D

Brown AND Caldwell

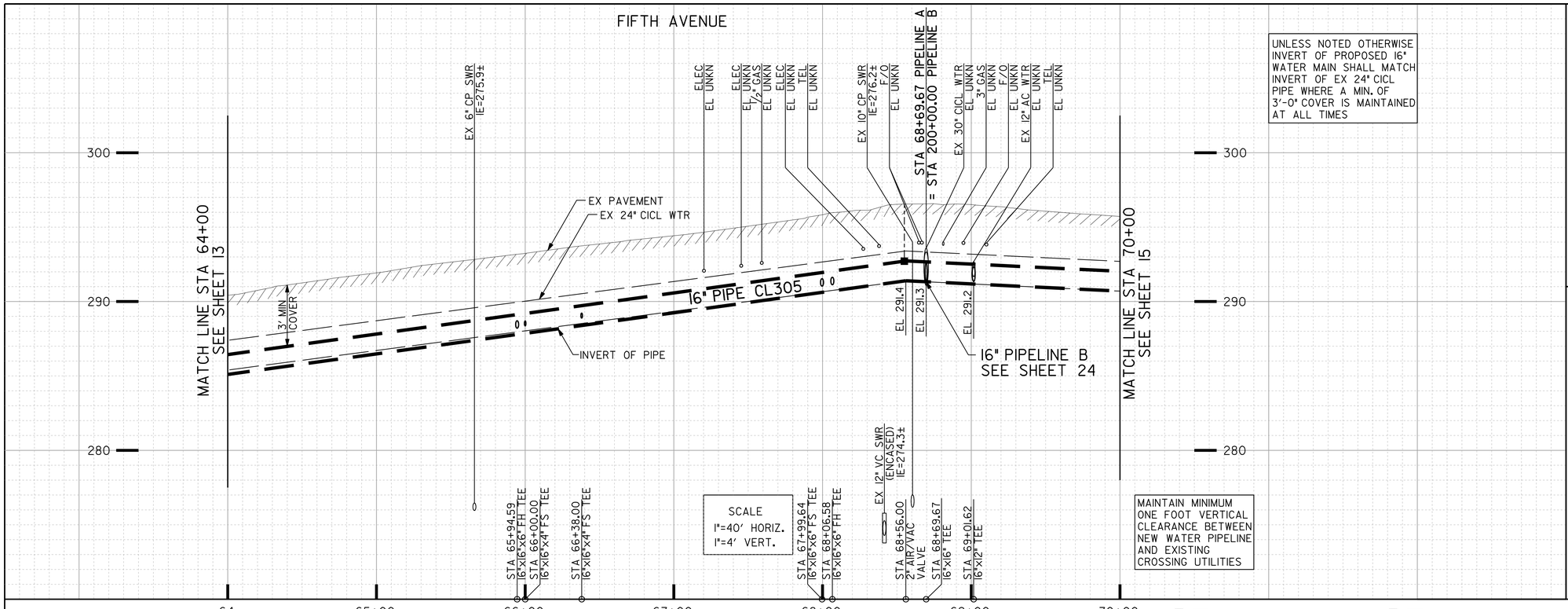
REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WARD — No. C45272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA

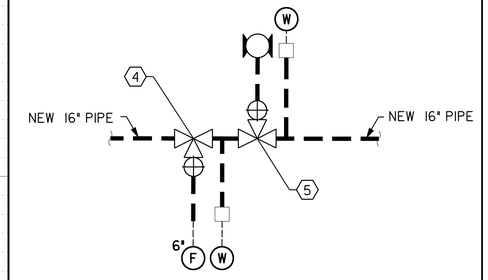
06/09/2014

W. WASHINGTON STREET /FIFTH AVENUE

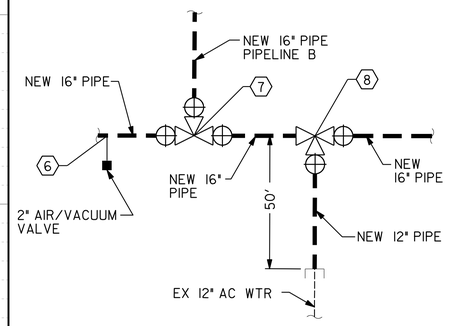
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C10.dgn
18-JUL-2014 15:07 therencia

FIFTH AVENUE





DETAIL A
FIFTH AVE.
NTS

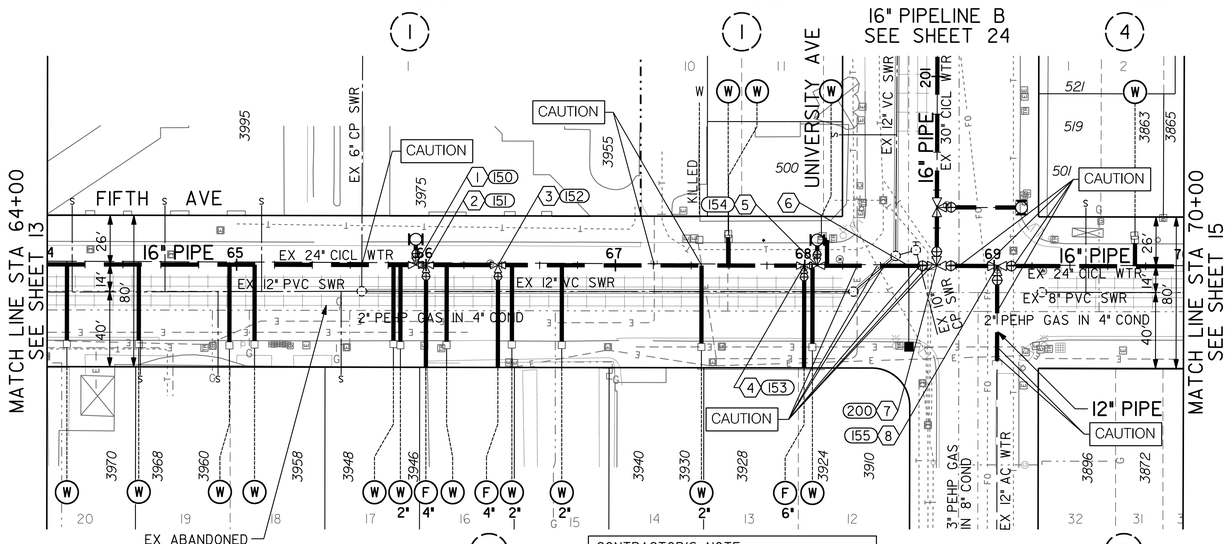


DETAIL B
UNIVERSITY AVE. AT FIFTH AVE.
NTS

HILLCREST SQUARE
MAP 12457

NORTH SIDE ADDITION
MAP 666

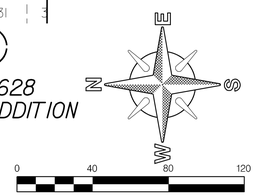
NUTT'S ADDITION
MAP 628



MAP 1069
HILLCREST

ADJACENT PROJECT:
FY13 ASPHALT
OVERLAY GROUP 2

MAP 628
NUTT'S ADDITION



1 (150)
BY CONTRACTOR
FURNISH & INSTALL
STA 65+94.59
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)

2 (151)
BY CONTRACTOR
FURNISH & INSTALL
STA 66+00.00
1- 16"x16"x4" TEE (MJ, MJ, F) RT
CONNECT TO EX 4" FS

3 (152)
BY CONTRACTOR
FURNISH & INSTALL
STA 66+38.00
1- 16"x16"x4" TEE (MJ, MJ, F) RT
CONNECT TO EX 4" FS

4 (153)
BY CONTRACTOR
FURNISH & INSTALL
STA 67+99.64
1- 16"x16"x6" TEE (MJ, MJ, F) LT
CONNECT TO EX 6" FS
SEE DETAIL A

5 (154)
BY CONTRACTOR
FURNISH & INSTALL
STA 68+06.58
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)
SEE DETAIL A

6
BY CONTRACTOR
FURNISH & INSTALL
STA 68+55.00
1- 2" AIR/VACUUM VALVE ASSY, RT

7 (200)
BY CONTRACTOR
FURNISH & INSTALL
STA 68+69.67 PIPELINE A = STA 200+00.00 PIPELINE B
1- 16" TEE (F)
3 - 16" BFV (F, MJ) BK, AHD, LT
SEE DETAIL B

8 (155)
BY CONTRACTOR
FURNISH & INSTALL
STA 69+01.62
1- 16"x16"x12" TEE (F)
1- 16" BFV (F, MJ) AHD
1- 12" GV (F, MJ) RT
1- 16" ADAPTER, BK
50' - 2" CL305 PIPE, RT
SEE DETAIL B

REFERENCE:
WATER: 11934-2-D, 15598-4-D, 24760-15-D
SEWER: 12395-1-D, 22247-4-D
STORM DRAIN: 6151-1-R
GAS: 22-289, 22-341
ELECTRIC: 212-1719A, 212-1719C
CABLE TV:
TELEPHONE: un0102dc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-A5
HGL: 468.14

RETIREMENTS:
24" - 600' CICL 1915
FH (6-PORT) - 2
6" FIRE SERVICE - 1
4" FIRE SERVICE - 2
12" - 50' AC 1989
¾" SERVICE - 2
1" SERVICE - 1
1½" SERVICE - 2
2" SERVICE - 4
UNKN SERVICE - 7

PRESSURE ZONE: ALVARADO 536

C-11

CAUTION
3" HP GAS IN 8" CONDUITI CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

UNIVERSITY AVE PIPELINE REPLACEMENT

FIFTH AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 64+00 TO STA 70+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 14 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

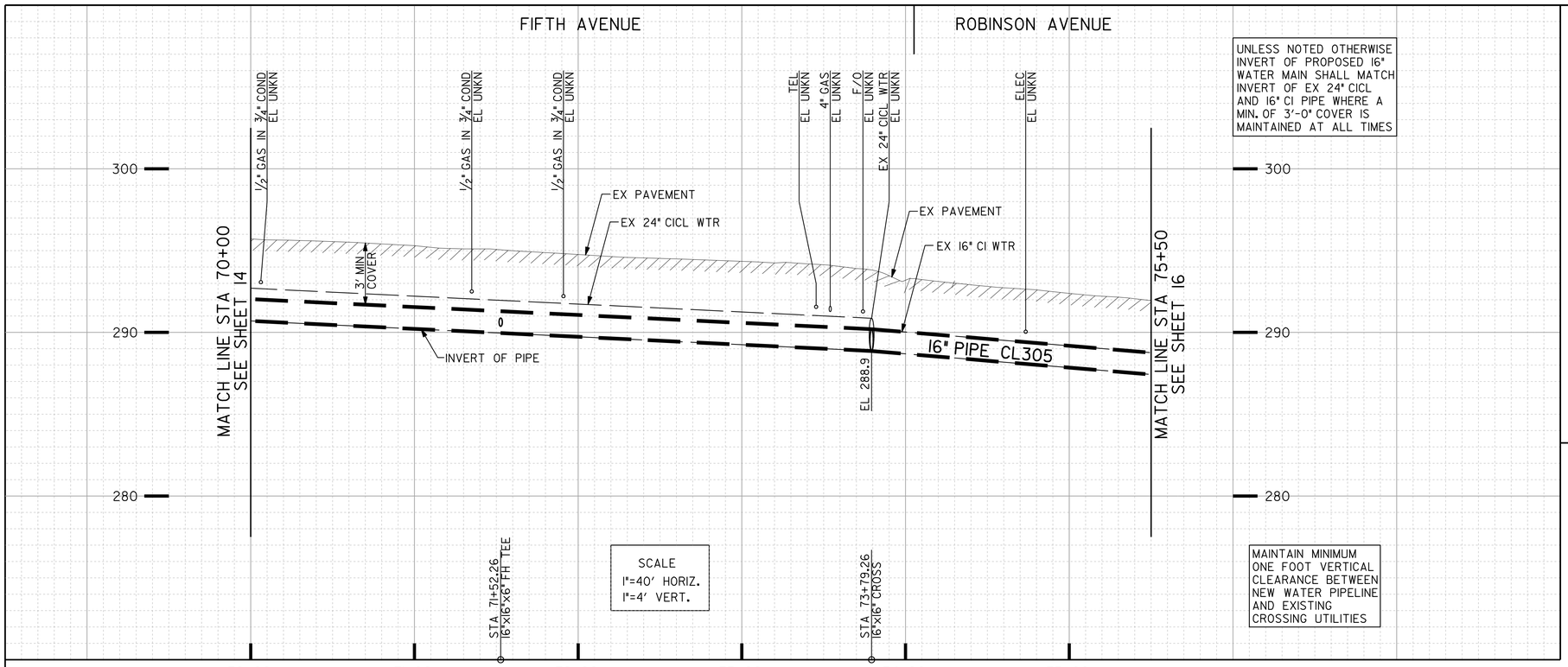
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

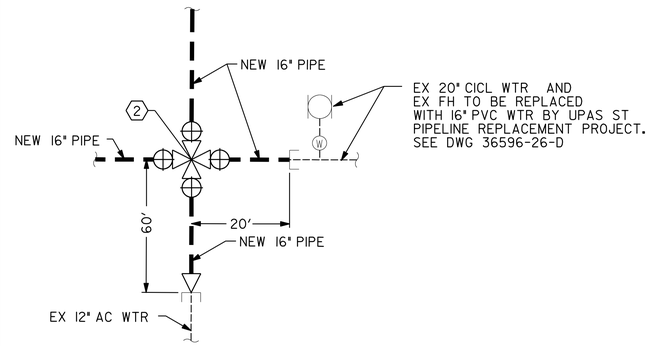
WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafouna PROJECT MANAGER
CHECKED BY Francisco Rodriguez PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-14-D

REGISTERED PROFESSIONAL ENGINEER — RICHARD JUDSON WEBB — NO. C43272 — EXP. 06-31-18 — CIVIL — STATE OF CALIFORNIA
06/09/2014

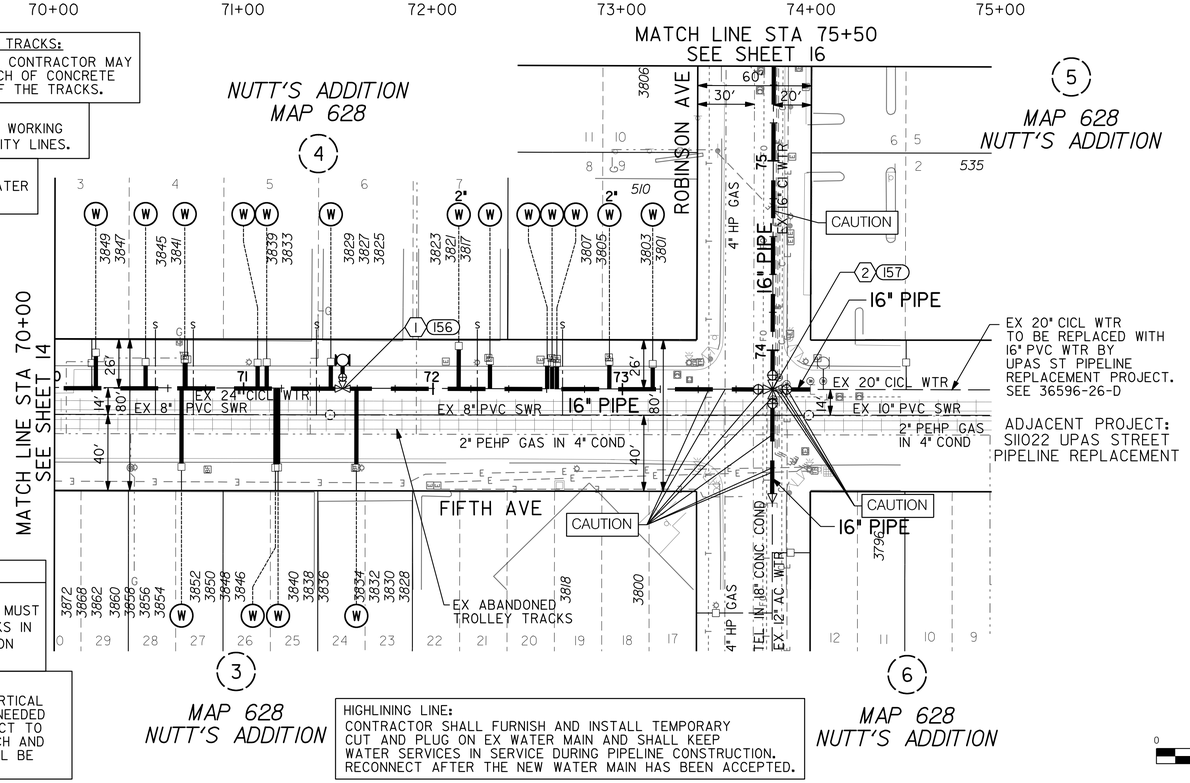
Brown AND Caldwell

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C11.dgn
18-JUL-2014 15:07 therencia





DETAIL A
ROBINSON AVE. AT FIFTH AVE.
NTS



ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

C A U T I O N

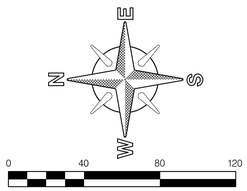
4" HP GASI CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

1 156
BY CONTRACTOR
FURNISH & INSTALL
STA 71+52.62
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER

2 157
BY CONTRACTOR
FURNISH & INSTALL
STA 73+79.26
1- 16" CROSS (F)
4 - 16" BFV (F, MJ) BK, RT, LT, AHD
1- 16"x12" RED (MJ) 60' RT
20' - 12" CL305 PIPE, AHD
60' - 12" CL305 PIPE, RT
SEE DETAIL A



REFERENCE:
WATER: 8055-2-W, 11934-2-D, 15598-4-D, 24760-15-D, 36596-26-D
SEWER: 12395-1-D, 22247-4-D
STORM DRAIN: 6151-1-R
GAS: 22-289, 22-341
ELECTRIC: 212-1719A, 212-1719C
CABLE TV:
TELEPHONE: un0102dc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-A5
HGL: 468.44

RETIREMENTS:
24" - 380' CICL 1915
20" - 20' CICL 1915
16" - 171' CI 1959
12" - 60' AC 1958
¾" SERVICE - 9
1" SERVICE - 3
2" SERVICE - 2
UNKN SERVICE - 3

PRESSURE ZONE: ALVARADO 536

C-12

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER RICHARD JUDSON WASLEY NO. C43272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

FIFTH AVENUE /ROBINSON AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 70+00 TO STA 75+50

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 15 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH, PRINT NAME — DATE 6-9-2014
DESIGNED BY: F. Michael Bafoua, PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

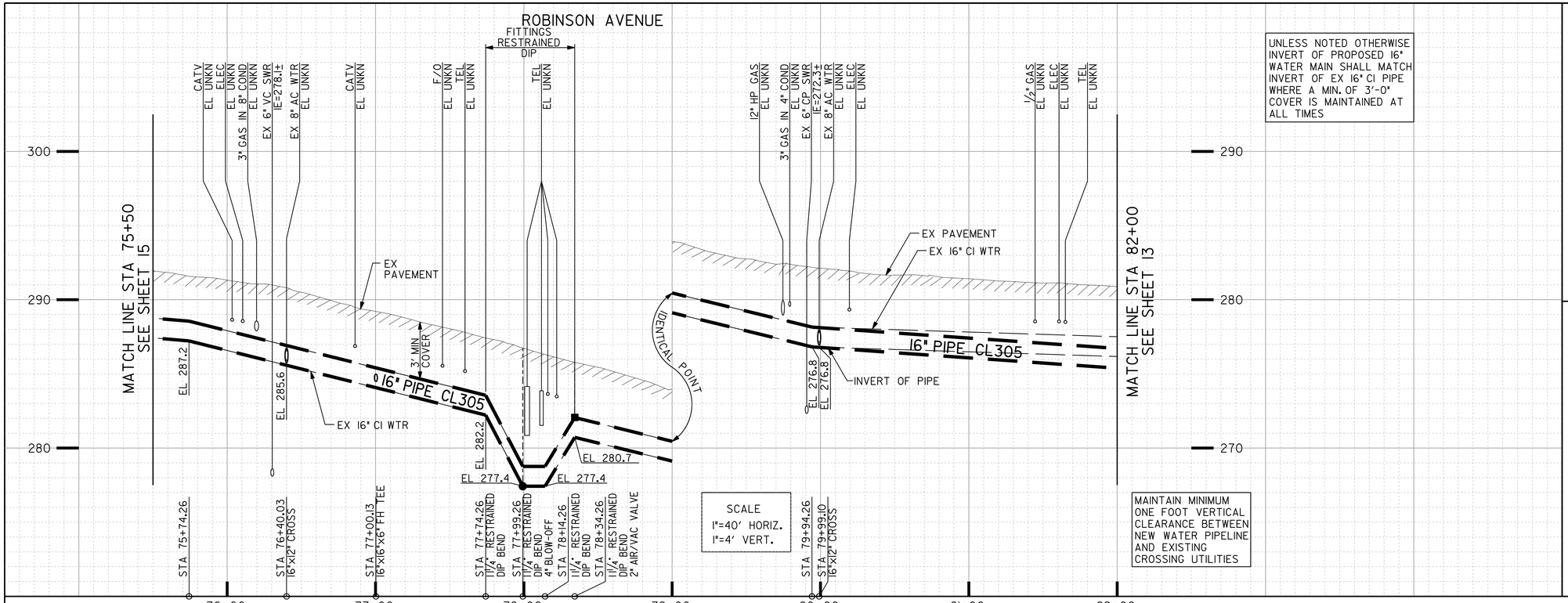
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-15-D

FIFTH AVENUE /ROBINSON AVENUE

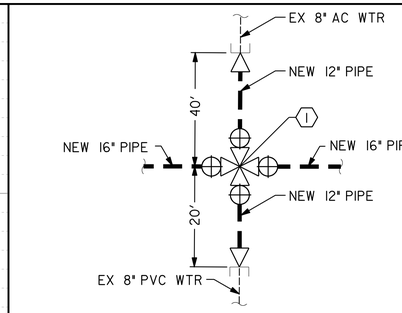
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C12.dgn
18-JUL-2014 15:08 therencia



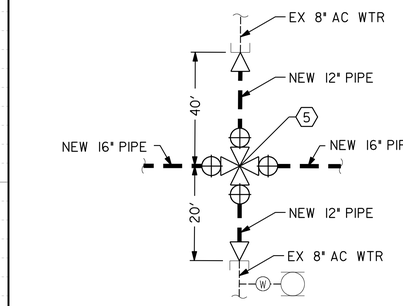
UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 16" CI PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

SCALE
1"=40' HORIZ.
1"=4' VERT.

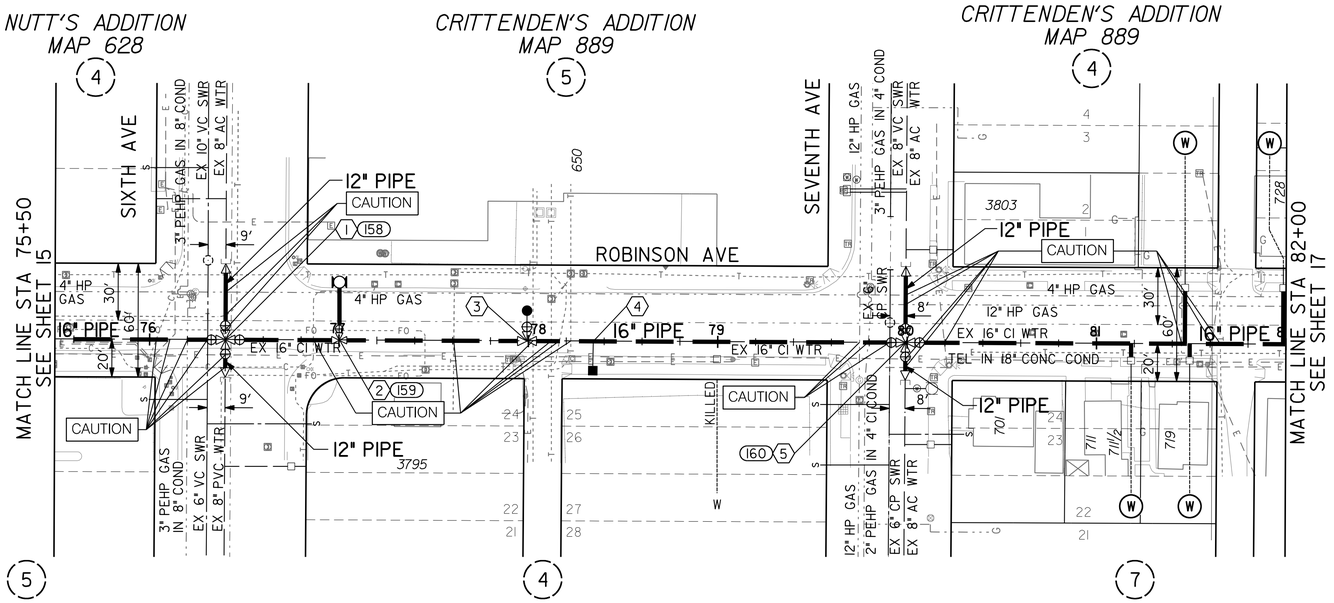
MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
SIXTH AVE. AT ROBINSON AVE.
NTS



DETAIL B
SEVENTH AVE. AT ROBINSON AVE.
NTS



158
BY CONTRACTOR
FURNISH & INSTALL

STA 76+40.03
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 20' RT
40' - 12" CL305 PIPE, LT
20' - 12" CL305 PIPE, RT
SEE DETAIL A

159
BY CONTRACTOR
FURNISH & INSTALL

STA 77+00.13
1 - 16"x16"x6" TEE (MJ, MJ, F) LT
1 - 6", 3-PORT FH ASSY & MARKER

3
BY CONTRACTOR
FURNISH & INSTALL

STA 77+99.26
1 - 16"x16"x4" TEE (MJ, MJ, F) LT
1 - 4" BLOW-OFF ASSY

4
BY CONTRACTOR
FURNISH & INSTALL

STA 78+34.26
1 - 2" AIR/VACUUM VALVE ASSY, RT

160
BY CONTRACTOR
FURNISH & INSTALL

STA 79+99.10
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 40' LT, 20' RT
40' - 12" CL305 PIPE, LT
20' - 12" CL305 PIPE, RT
SEE DETAIL B

REFERENCE:
WATER: 8055-2-W, 12045-10-D, 15598-4-D, 20548-5-D, 26527-8-D
SEWER: 1297-1-L, 12395-3-D, 12395-5-D, 22336-3-D, 22336-4-D
STORM DRAIN:
GAS: 2-257, 2-257A, 2-261, 22-256, 22-257
ELECTRIC: 212-1719A, 212-1719B
CABLE TV:
TELEPHONE: un010lbc, un010lbd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-A6
HGL: 469.06

RETIREMENTS:
16" - 650' CI 1959
8" - 40' AC 1984
8" - 20' PVC 1996
8" - 40' AC 1965
8" - 20' AC 1965
¾" SERVICE - 3
1" SERVICE - 1
UNKN SERVICE - 1

PRESSURE ZONE: ALVARADO 536

C-13

CAUTION
12" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

N W E S
0 40 80 120
SCALE 1"=40'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER RAJ JUDSON ASCHARZADEH No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 75+50 TO STA 82+00

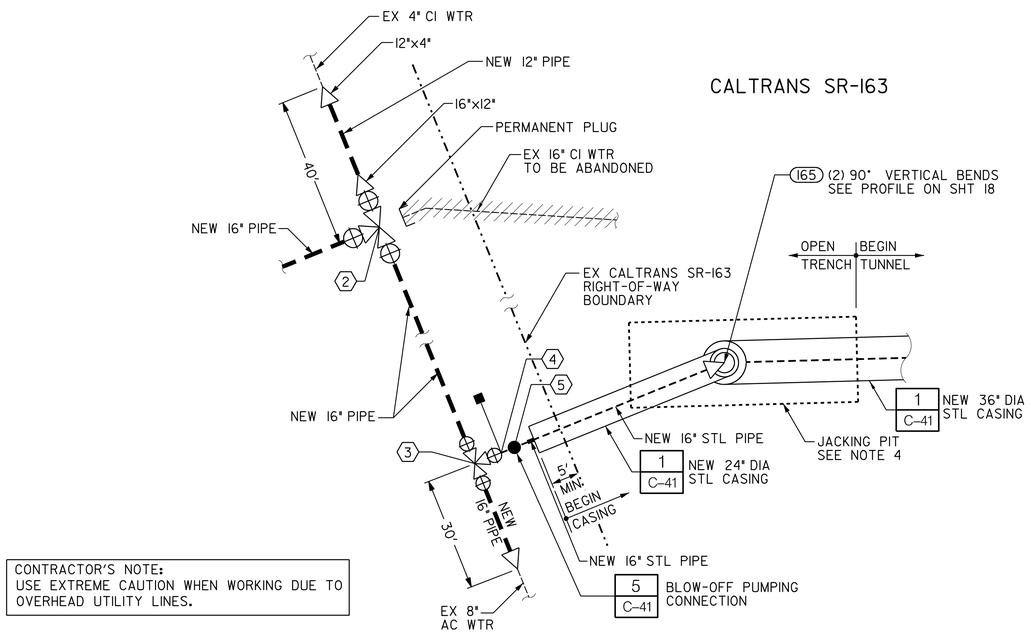
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 16 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DESIGNED BY: F. Michael Bafouna — PROJECT MANAGER
CHECKED BY: Thomas Bailey — PROJECT ENGINEER

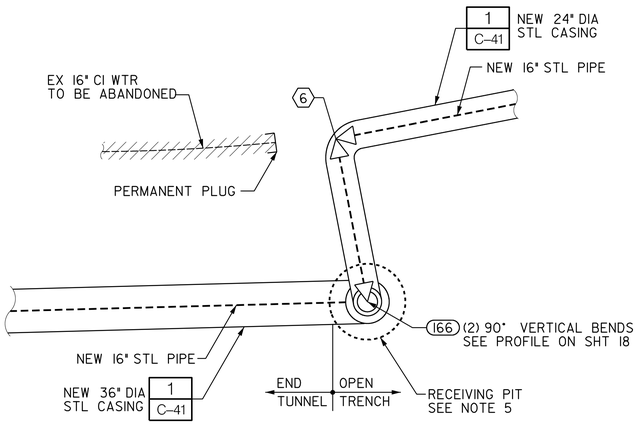
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

WATER WBS S-11021
SEWER WBS N/A
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-16 -D

ROBINSON



DETAIL A
EIGHTH AVE. AT ROBINSON AVE.
NTS



DETAIL B
SR-163 NORTHBOUND OFF-RAMP AT ROBINSON AVE.
NTS

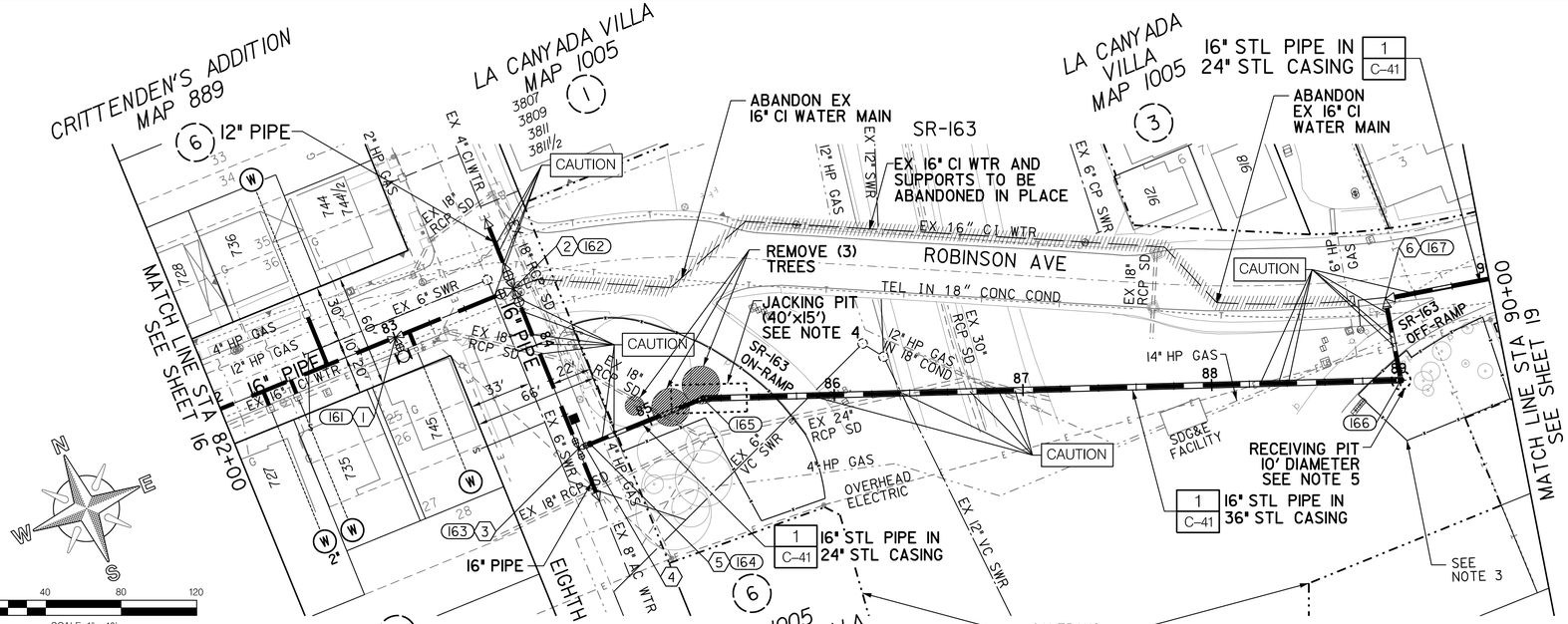
PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

NOTES:

1. SEE LANDSCAPE PLANS, SHEETS 83 THROUGH 86, FOR LIMITS OF LANDSCAPE AREA.
2. ONLY THREE TREES ARE TO BE REMOVED AS SHOWN ON THIS PLAN. ALL OTHER TREES SHALL BE PROTECTED IN PLACE. SEE LANDSCAPE SHEETS FOR ADDITIONAL REQUIREMENTS.
3. INSTALL TEMPORARY SIX-FOOT HIGH CHAIN LINK PERIMETER FENCE AROUND JACKING AND RECEIVING CONSTRUCTION AREAS. APPROXIMATE LIMITS SHOWN ON THIS PLAN. CONTRACTOR SHALL COORDINATE WITH CALTRANS FOR FINAL LIMITS OF FENCING REQUIRED.
4. JACKING PIT SHALL BE APPROXIMATELY 40' LONG x 15' WIDE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF ON-RAMP PAVEMENT. EXACT SIZE AND LOCATION SHALL BE SUBMITTED BY CONTRACTOR FOR APPROVAL AND FINAL PERMIT PRIOR TO START OF CONSTRUCTION OPERATIONS. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.
5. RECEIVING PIT SHALL BE APPROXIMATELY 10' DIAMETER OR 10' SQUARE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF OFF-RAMP PAVEMENT. EXACT SIZE AND LOCATION SHALL BE SUBMITTED BY CONTRACTOR FOR APPROVAL AND FINAL PERMIT PRIOR TO START OF CONSTRUCTION OPERATIONS. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.
6. ALL 16-INCH DIAMETER STEEL CARRIER PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. MINIMUM WALL THICKNESS OF 3/8" REQUIRED. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
7. VIDEOTAPE INSPECTION OF REPAIRED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
8. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.
9. SEE SHEET SHEET 44 FOR ADDITIONAL NOTES AND DETAILS.

ROBINSON AVENUE /EIGHTH AVENUE



CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CAUTION
14"/12"/6"/4" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

(1) (161)
BY CONTRACTOR
FURNISH & INSTALL
STA 83+00.31
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

(2) (162)
BY CONTRACTOR
FURNISH & INSTALL
STA 83+67.86
1- 16" TEE (F)
2 - 16" BFV (F, MJ) BK, RT
1- 16" BFV (F) LT
1- 16"x12" RED (F, MJ) LT
1- 16"x4" RED (MJ) 40' LT
40' - 12" CL305 PIPE, LT
SEE DETAIL A

(3) (163)
BY CONTRACTOR
FURNISH & INSTALL
STA 84+59.26
1- 16" TEE (F)
3 - 16" BFV (F) AHD, BK, RT
1- 16"x8" RED (MJ) 30' RT
30' - 16" CL305 PIPE, RT
SEE DETAIL A

(4)
BY CONTRACTOR
FURNISH & INSTALL
STA 84+63.00
1- 2" AIR/VACUUM VALVE ASSY, LT

(5) (164)
BY CONTRACTOR
FURNISH & INSTALL
STA 84+66.00
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" BLOW-OFF ASSY
SEE DETAIL A

(6) (167)
BY CONTRACTOR
FURNISH & INSTALL
STA 89+44.10
1- 16" 90° STL BEND (PE)
SEE DETAIL B

REFERENCE:
WATER: 8055-2-W, 8056-W, 7385-D
SEWER: 83-1-D, 987-D
STORM DRAIN: 3351-B
GAS: 2-262, 2-262A
ELECTRIC: 212-1719B
CABLE TV:
TELEPHONE: un020lac
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-B6
HGL: 469.61

RETIREMENTS:
16" - 715' CI 1959
4" - 40' CI 1909
8" - 120' AC 1958
¾" SERVICE - 3
2" SERVICE - 1

FOR PROFILE
SEE SHEET 18

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JUDSON WARD
NO. C45272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-14

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE /EIGHTH AVENUE
16" WATER PIPELINE A
PLAN AND DETAILS
STA 82+00 TO STA 90+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 17 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) 6-9-2014 DATE
DESIGNED: F. Michael Bafous PROJECT MANAGER
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

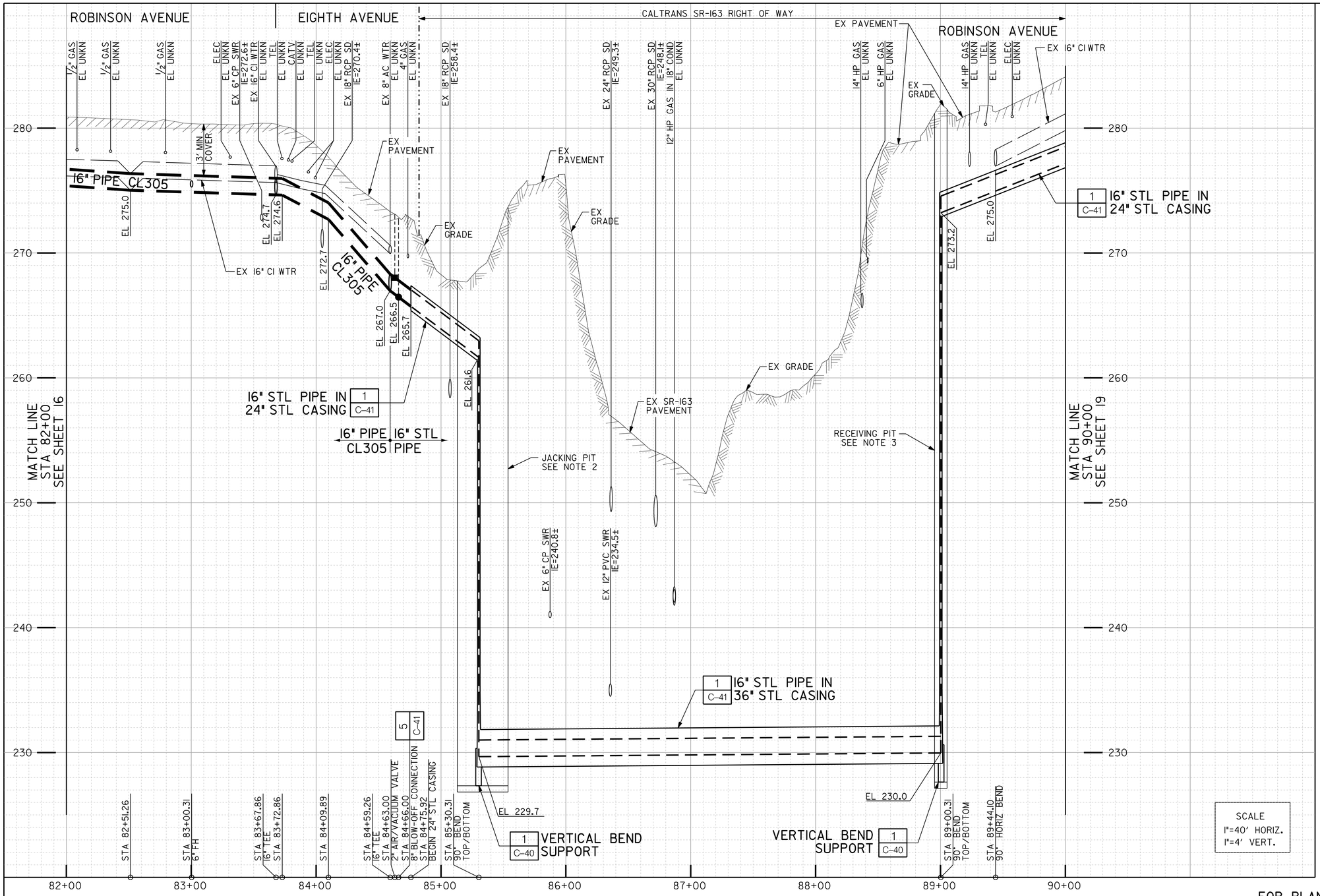
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-17-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C14.dgn
18-JUL-2014 15:12 therencia

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE _____ DATE _____



NOTES:

1. STEEL PIPE CASING SHALL BE ASTM A283 GRADE D.
2. JACKING PIT SHALL BE APPROXIMATELY 40' LONG x 15' WIDE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF ON-RAMP PAVEMENT. EXACT SIZE AND LOCATION SHALL BE SUBMITTED BY CONTRACTOR FOR APPROVAL AND FINAL PERMIT PRIOR TO START OF CONSTRUCTION OPERATIONS. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.
3. RECEIVING PIT SHALL BE APPROXIMATELY 10' DIAMETER OR 10' SQUARE. EDGE OF PIT MAY BE NO CLOSER THAN FIVE FEET FROM EDGE OF OFF-RAMP PAVEMENT. EXACT SIZE AND LOCATION SHALL BE SUBMITTED BY CONTRACTOR FOR APPROVAL AND FINAL PERMIT PRIOR TO START OF CONSTRUCTION OPERATIONS. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.
4. POUR CONCRETE SLAB AT BOTTOM OF JACKING AND RECEIVING PITS.
5. ALL 16-INCH DIAMETER STEEL CARRIER PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. MINIMUM WALL THICKNESS OF 3/8" REQUIRED. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
6. VIDEOTAPE INSPECTION OF REPAIRED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
7. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.
8. SEE SHEET 44 FOR ADDITIONAL NOTES AND DETAILS.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES

SCALE
1"=40' HORIZ.
1"=4' VERT.

FOR PLAN SEE SHEET 17

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER DAVID JUDSON WATSON No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

C-15

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE /EIGHTH AVENUE

16" WATER PIPELINE A
PROFILE
STA 82+00 TO STA 90+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 18 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

DESIGNED BY: F. Michael Bafoua PROJECT MANAGER

CHECKED BY: Thanissa Rodan PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE

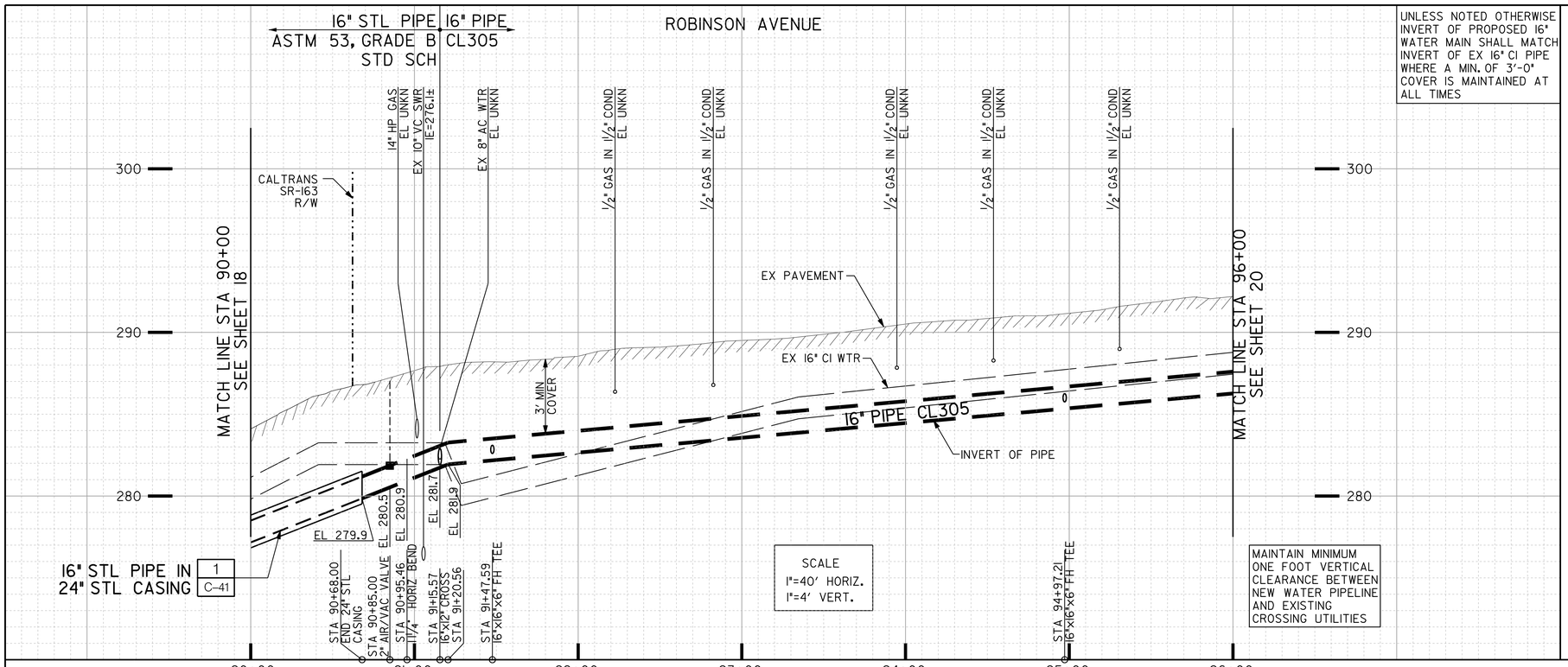
1850444-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-18 -D

ROBINSON AVENUE /EIGHTH AVENUE

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C15.dgn
18-JUL-2014 15:13 therencia



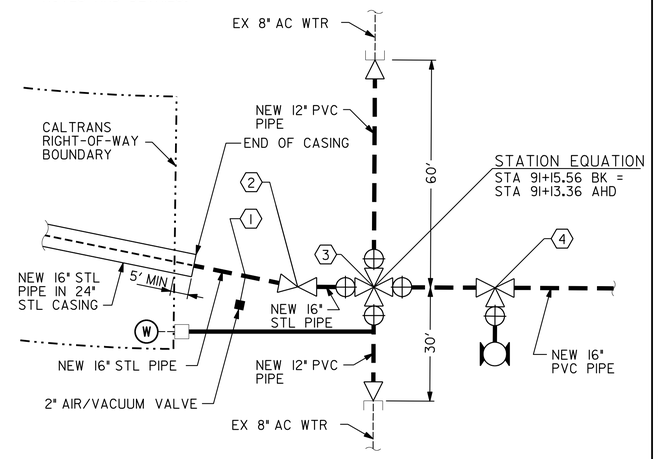
UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 16" CI PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

NOTES:

1. ALL 16" DIAMETER STEEL PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS, MINIMUM WALL THICKNESS OF ⅜" REQUIRED.
2. SEE DRAWING C-41 FOR ADDITIONAL NOTES AND DETAILS.

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

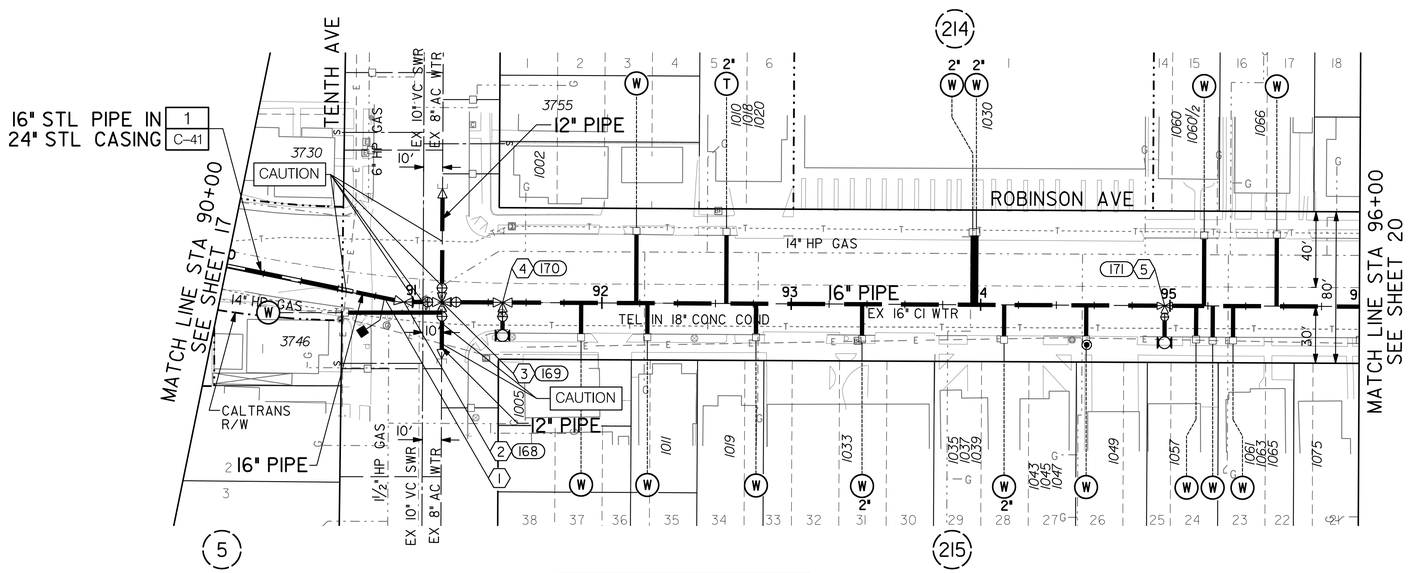
STATE REPRESENTATIVE _____ DATE _____



DETAIL A
TENTH AVE. AT ROBINSON AVE.
NTS

UNIVERSITY HTS AMENDED

HILLCREST TOWERS
MAP 15544



5

MAP 1005
LA CANYADA
VILLA

214

215

UNIVERSITY HTS
AMENDED

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CAUTION
14" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

1
BY CONTRACTOR
FURNISH & INSTALL
STA 90+85.00
1- 2" AIR/VACUUM VALVE ASSY, RT

2 168
BY CONTRACTOR
FURNISH & INSTALL
STA 90+95.46
1- 16"11¼° STL BEND (PE)

3 169
BY CONTRACTOR
FURNISH & INSTALL
STA 91+15.57
1- 16"x12" CROSS (F)
1- 16" BFV (F) BK
1- 16" BFV (F, MJ) AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 60' LT, 30' RT
60' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

4 170
BY CONTRACTOR
FURNISH & INSTALL
STA 91+47.59
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

5 171
BY CONTRACTOR
FURNISH & INSTALL
STA 94+97.21
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

REFERENCE:
WATER: 8055-3-W, 1247I-5-D, 1247I-10-D
SEWER: 13482-7-D
STORM DRAIN:
GAS: 2-262A, 2-264, 2-265
ELECTRIC: 212-1719B, 212-1722A
CABLE TV:
TELEPHONE: un020lad, un020lbc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-B6
HGL: 470.06

RETIREMENTS:
16" - 600' CI 1959
FH (4-PORT) - 1
8" - 60' AC 1967
8" - 30' AC 1967
¾" SERVICE - 7
1" SERVICE - 1
2" SERVICE - 5
UNKN SERVICE - 2

N
W E
S
0 40 80 120
SCALE 1" = 40'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
RICHARD JUDSON WARD
No. C43272
Ex. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-16

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE
16" WATER PIPELINE A
PLAN AND PROFILE
STA 90+00 TO STA 96+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 19 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH — DATE 6-9-2014
PRINT NAME

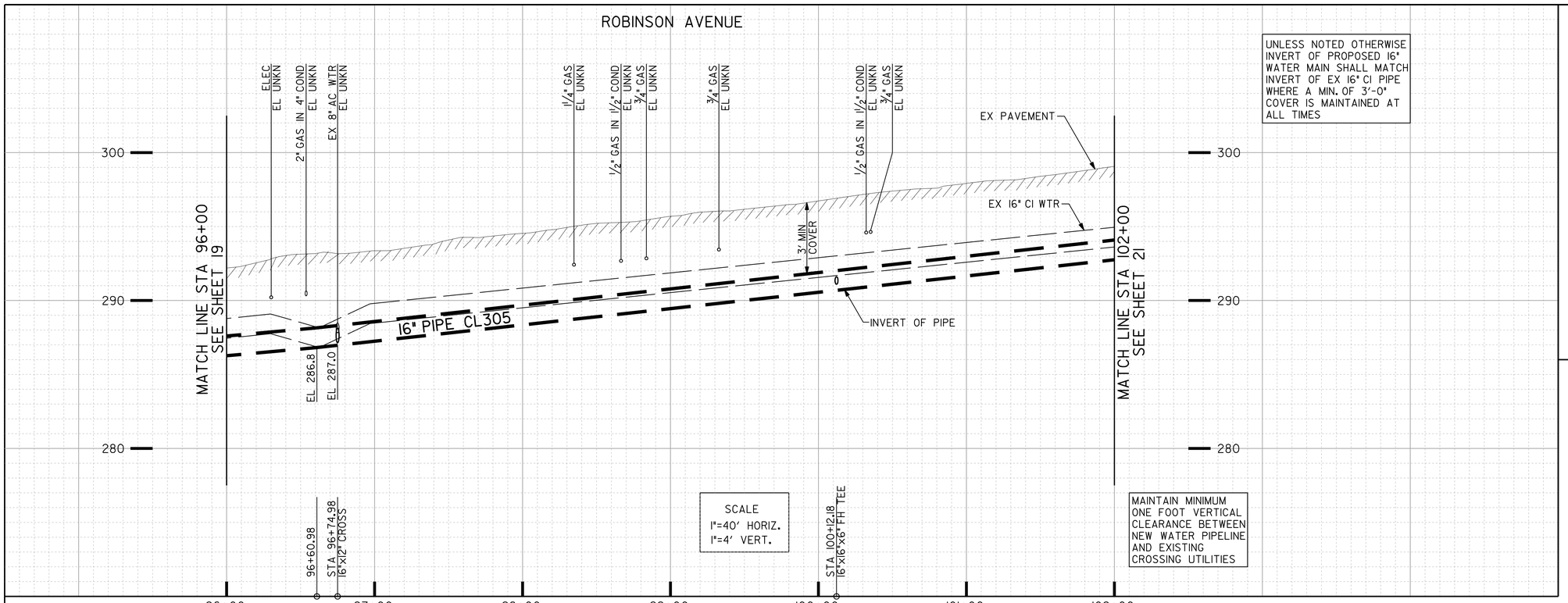
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

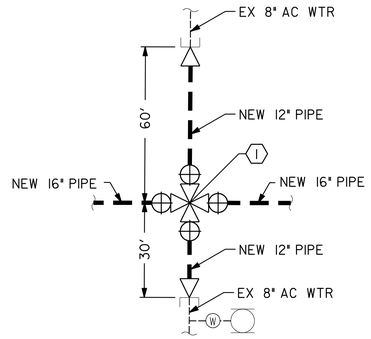
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafous PROJECT MANAGER
CHECKED BY Thomas Bailey PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-19-D

ROBINSON

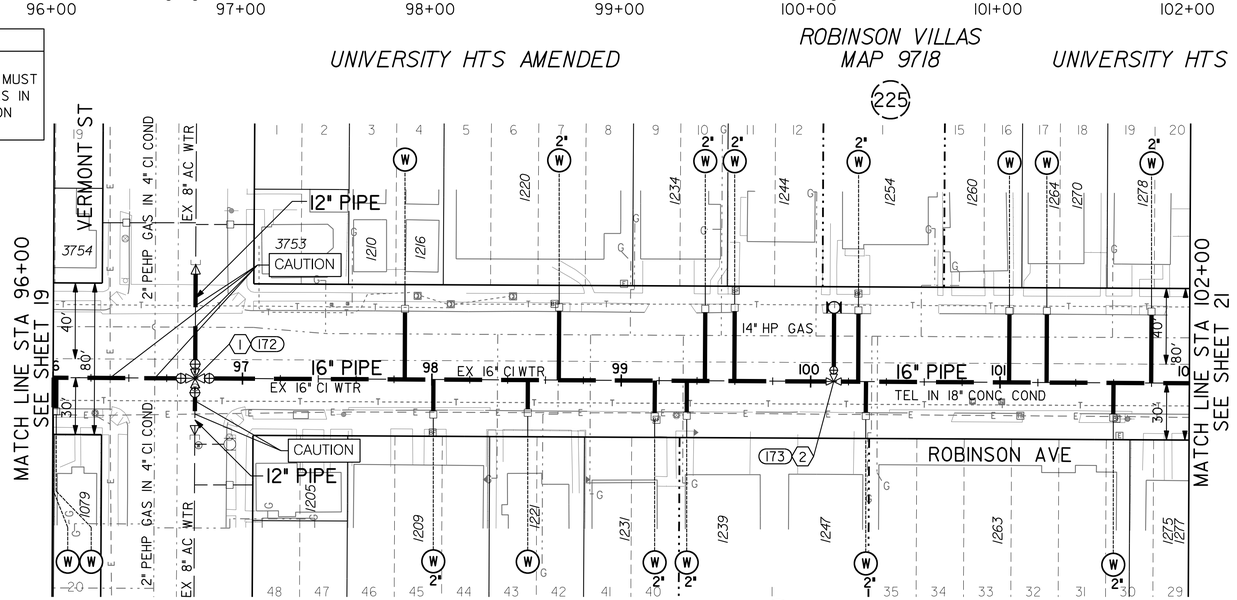
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C16.dgn
18-JUL-2014 15:13 therencia





DETAIL A
VERMONT ST. AT ROBINSON AVE.
NTS

CAUTION
14" HP GASI CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED



1 (172)
BY CONTRACTOR
FURNISH & INSTALL
STA 96+74.98
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 60' LT, 30' RT
60' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

2 (173)
BY CONTRACTOR
FURNISH & INSTALL
STA 100+12.18
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER

REFERENCE:
WATER: 8055-4-W, 12471-3-D, 12808-14-D
SEWER: 13482-14-D
STORM DRAIN: 2715-L
GAS: 2-269
ELECTRIC: 212-1722A
CABLE TV:
TELEPHONE: un020lbd, un020ldb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-B6
HGL: 470.50

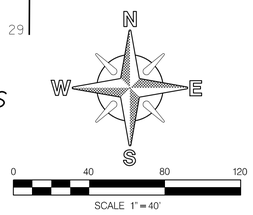
RETIREMENTS:
16" - 600' CI 1959
8" - 60' AC 1967
8" - 30' AC 1967
¾" SERVICE - 6
2" SERVICE - 10

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER RICHARD J. WATSON No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-17

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 96+00 TO STA 102+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 20 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DESIGNED BY: F. Michael Bafoua — PROJECT MANAGER
CHECKED BY: Therencia Rocha — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

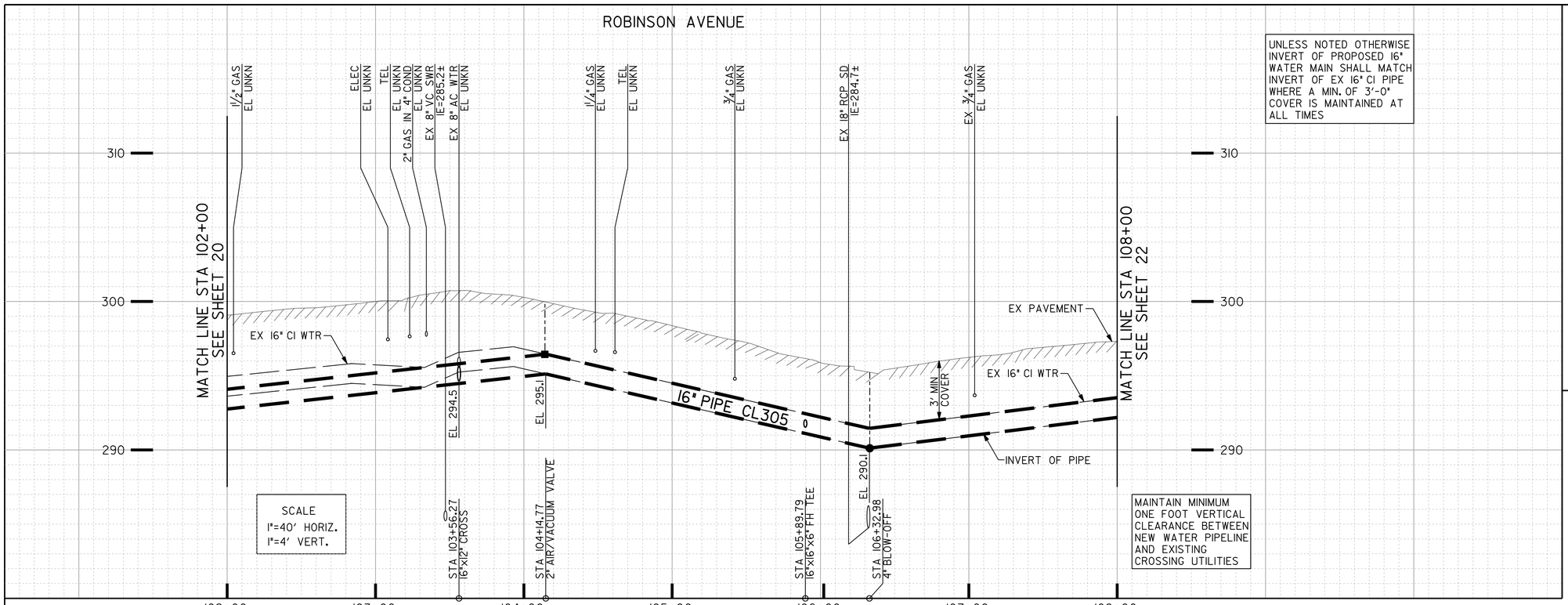
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-20-D

ROBINSON

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C17.dgn
18-JUL-2014 15:14 therencia

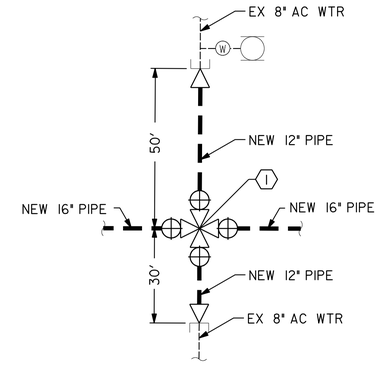
ROBINSON AVENUE



SCALE
1"=40' HORIZ.
1"=4' VERT.

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 16" CI PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

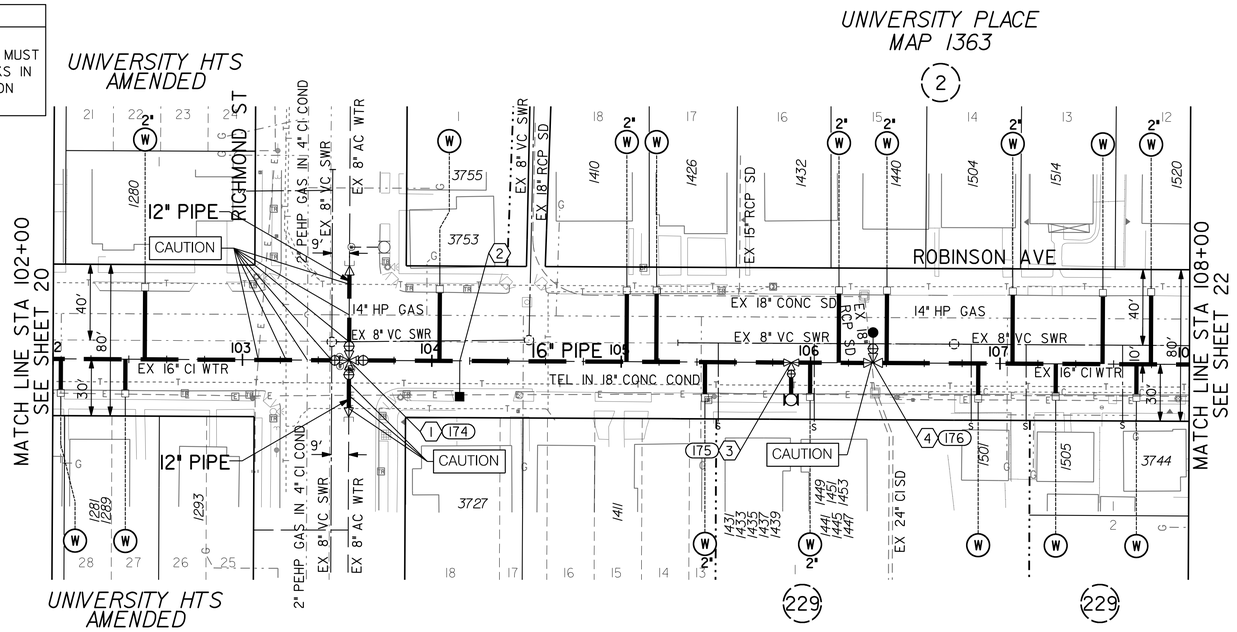
MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
RICHMOND ST. AT ROBINSON AVE.
NTS

CAUTION

14" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED



1 174
BY CONTRACTOR
FURNISH & INSTALL
STA 103+56.27
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12"x8" RED (MJ) 50' LT, 30' RT
50' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

2
BY CONTRACTOR
FURNISH & INSTALL
STA 104+14.77
1- 2" AIR/VACUUM VALVE ASSY, RT

3 175
BY CONTRACTOR
FURNISH & INSTALL
STA 105+89.79
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

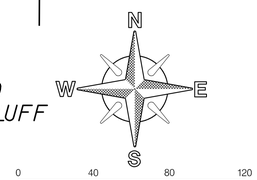
4 176
BY CONTRACTOR
FURNISH & INSTALL
STA 106+32.98
1- 16"x16"x4" TEE (MJ, MJ, F) LT
1- 4" BLOW-OFF ASSY

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



REFERENCE:
WATER: 8055-4-W, 20548-12-D
SEWER: 13482-6-D, 14600-7-D
STORM DRAIN: 3689-B, 2715-L
GAS: 2-269, 2-272
ELECTRIC: 212-1722B
CABLE TV:
TELEPHONE: un040lac, un040lad
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-C6
HGL: 470.80

RETIREMENTS:
16" - 600' CI 1959
8" - 50' AC 1967
8" - 30' AC 1968
¾" SERVICE - 5
1" SERVICE - 2
2" SERVICE - 8
UNKN SERVICE - 1

PRESSURE ZONE: ALVARADO 536

C–18

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. WATSON
No. C43272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA

06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE
16" WATER PIPELINE A
PLAN AND PROFILE
STA 102+00 TO STA 108+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 21 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — DATE 6-9-2014
IRAJ ASCHARZADEH
PRINT NAME

DESIGNED BY: F. Michael Bafous, PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

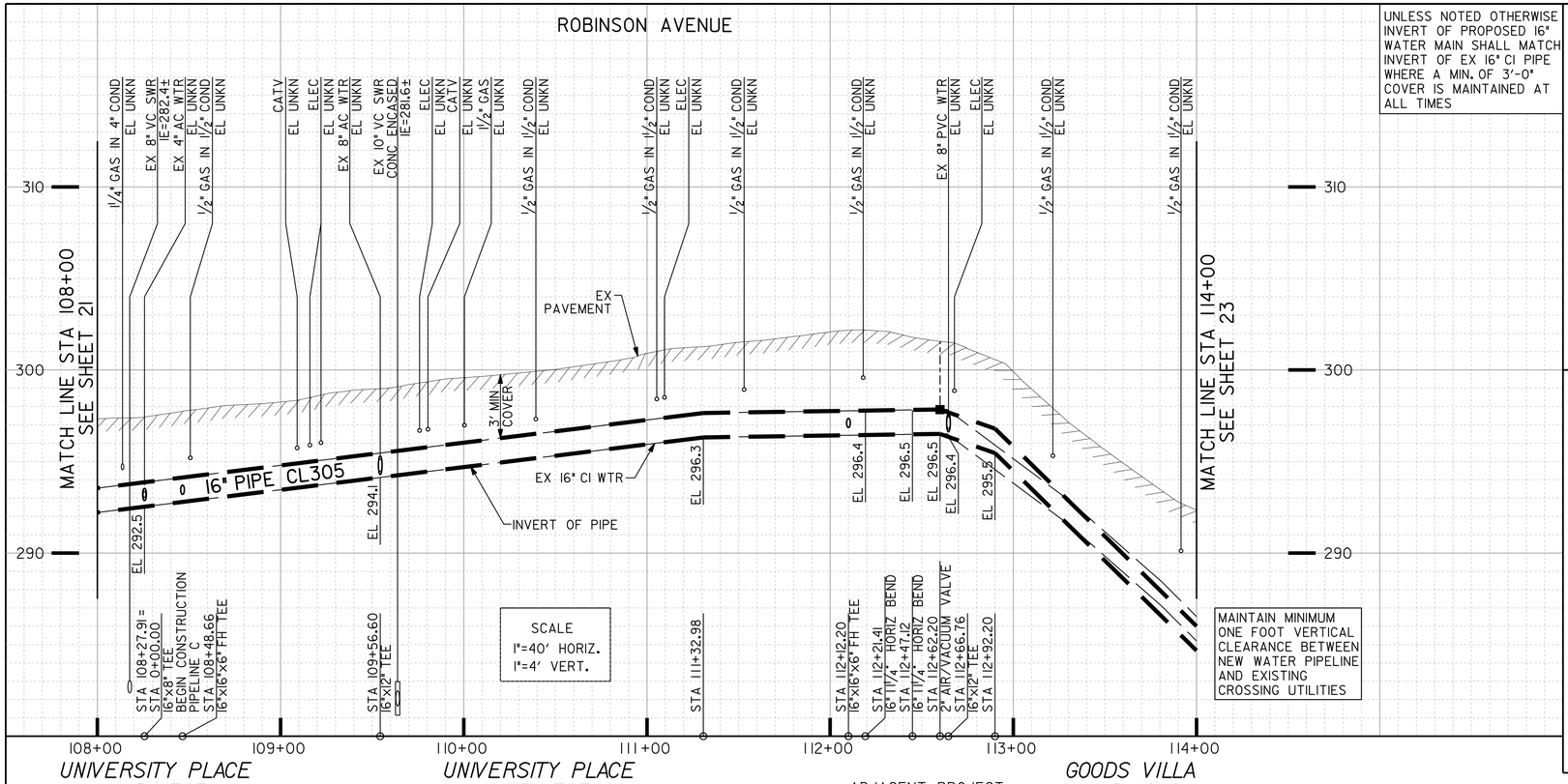
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656– 21 –D

ROBINSON

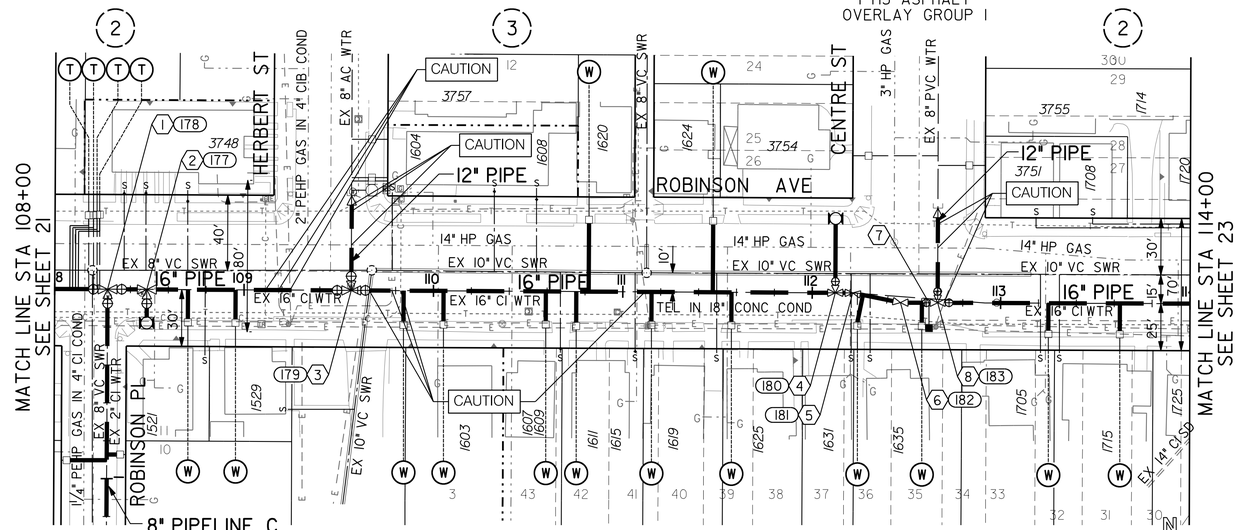
ROBINSON AVENUE

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 16" CI PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES



UNIVERSITY PLACE MAP 1363 — UNIVERSITY PLACE MAP 1363 — GOODS VILLA MAP 1046

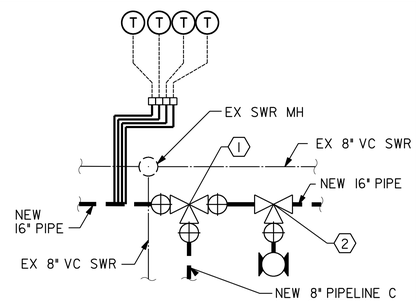
ADJACENT PROJECT: FY15 ASPHALT OVERLAY GROUP I



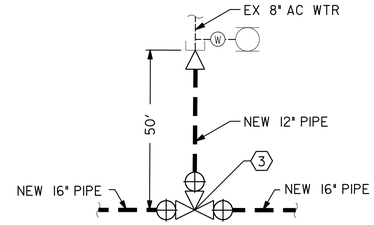
MAP 242 HIGGINS ADDITION — UNIVERSITY HEIGHTS ADDITION

SCALE 1"=40'

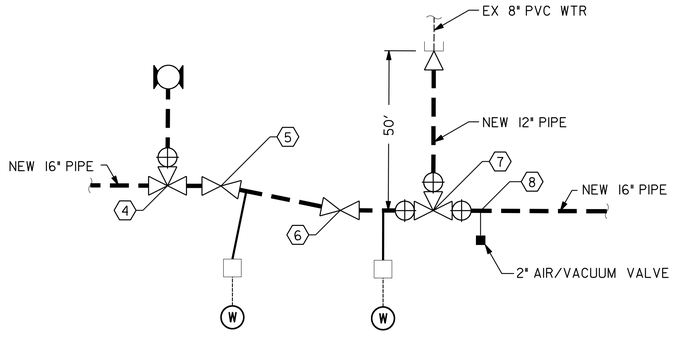
DETAIL A
ROBINSON PL. AT ROBINSON AVE.
NTS



DETAIL B
HERBERT ST. AT ROBINSON AVE.
NTS



DETAIL C
CENTRE ST. AT ROBINSON AVE.
NTS



① 178
BY CONTRACTOR
FURNISH & INSTALL
STA 108+27.91
1 - 16"x16"x8" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 8" GV (F, MJ) RT
40' - 8" CL305 PIPE, RT
SEE DETAIL A

② 177
BY CONTRACTOR
FURNISH & INSTALL
STA 108+48.66
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

③ 179
BY CONTRACTOR
FURNISH & INSTALL
STA 109+56.60
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
12"x8" RED (MJ) 50' LT
50' - 12" CL305 PIPE, LT
SEE DETAIL B

④ 180
BY CONTRACTOR
FURNISH & INSTALL
STA 112+12.20
1 - 16"x16"x6" TEE (MJ, MJ, F) LT
1 - 6", 3-PORT FH ASSY & MARKER

⑤ 181
BY CONTRACTOR
FURNISH & INSTALL
STA 112+21.41
1 - 16" 11¼° BEND (MJ)

⑥ 182
BY CONTRACTOR
FURNISH & INSTALL
STA 112+47.12
1 - 16" 11¼° BEND (MJ)

⑦
BY CONTRACTOR
FURNISH & INSTALL
STA 112+62.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

⑧ 183
BY CONTRACTOR
FURNISH & INSTALL
STA 112+66.76
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
12"x8" RED (MJ) 50' LT
50' - 12" CL305 PIPE, LT
SEE DETAIL C

REFERENCE:
WATER: 8055-4-W, 8055-5-W, 13110-2-D, 11138-7-D, 14432-2-D, 26328-2-D, 26328-4-D
SEWER: 14600-4-D, 14600-5-D, 14600-6-D, 26328-23-D, 30873-10-D, 30873-11-D
STORM DRAIN: 2715-L
GAS: 2-272, 2-275, 11-329
ELECTRIC: 212-1722B
CABLE TV:
TELEPHONE: un040lad, un040lbc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-C6
HGL: 471.32

RETIREMENTS:
16" - 600' CI 1959
FH (4-PORT) - 1
8" - 50' AC 1984
8" - 50' PVC 1972
¾" SERVICE - 12
UNKN SERVICE - 6

PRESSURE ZONE: ALVARADO 536

C-19

CAUTION
14" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — RICHARD JUDSON WARD — No. C43272 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE

16" WATER PIPELINE A
PLAN AND PROFILE
STA 108+00 TO STA 114+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 22 OF 86 SHEETS

WATER WBS	S-11021
SEWER WBS	N/A

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DEPUTY DIRECTOR: F. Michael Bofo... PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

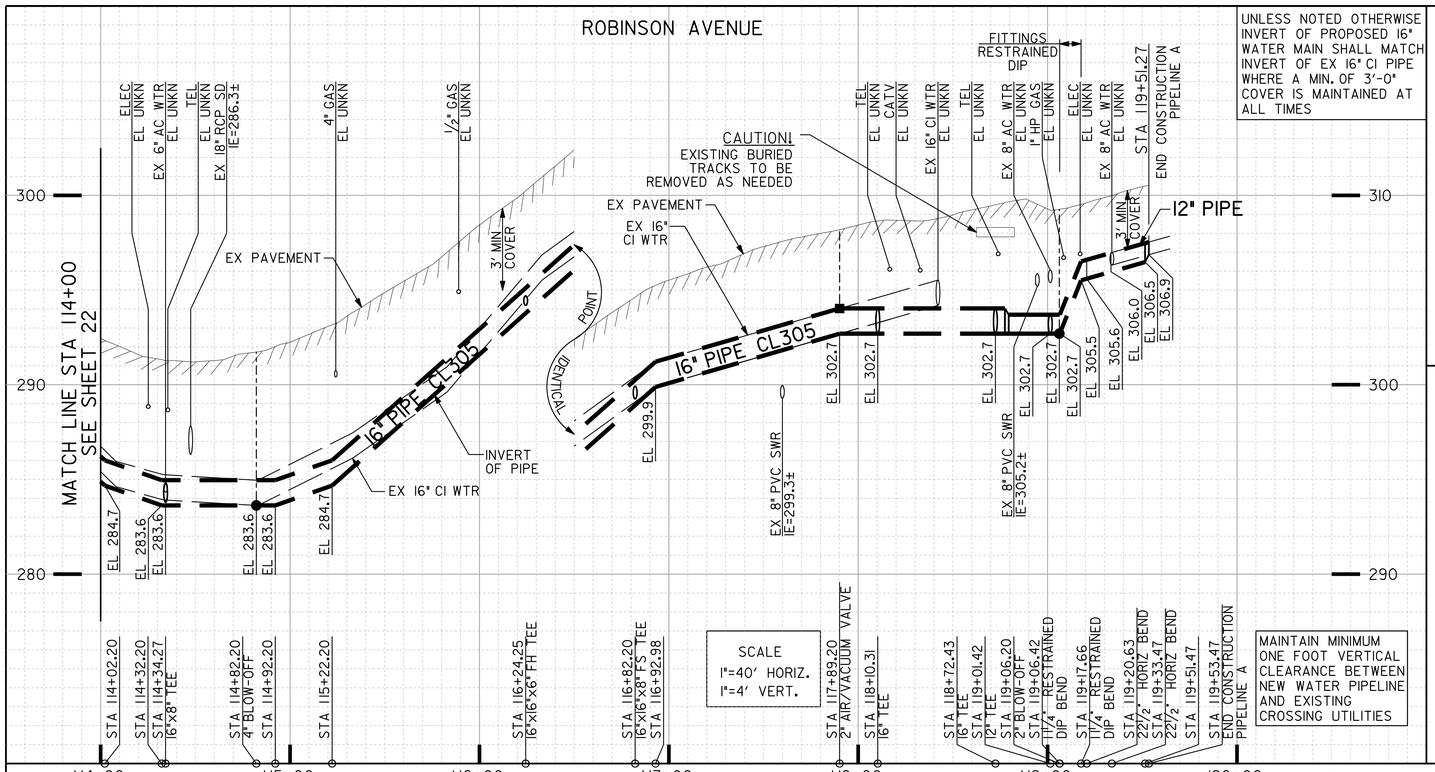
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719	CCS27 COORDINATE
1850444-6280407	CCS83 COORDINATE
36656-22-D	

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C19.dgn
18-JUL-2014 15:16 therencia

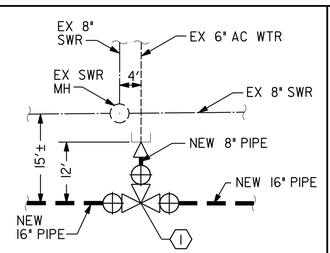
ROBINSON AVENUE



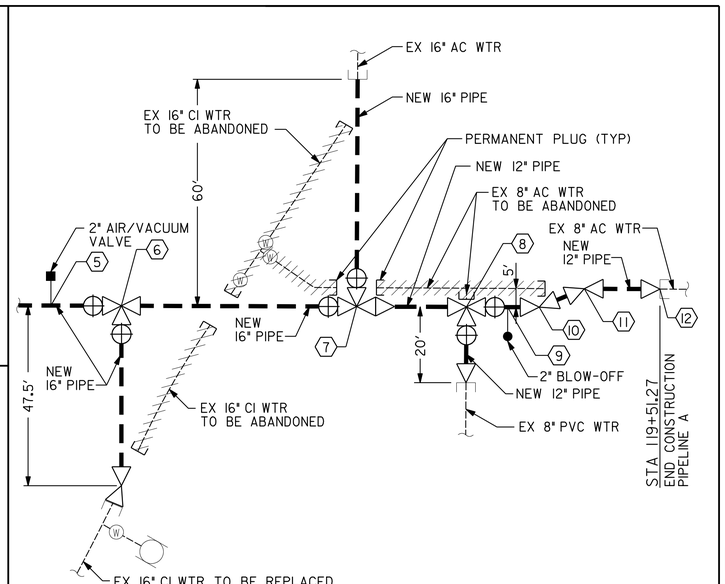
SCALE
1"=40' HORIZ.
1"=4' VERT.

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 16" CI PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



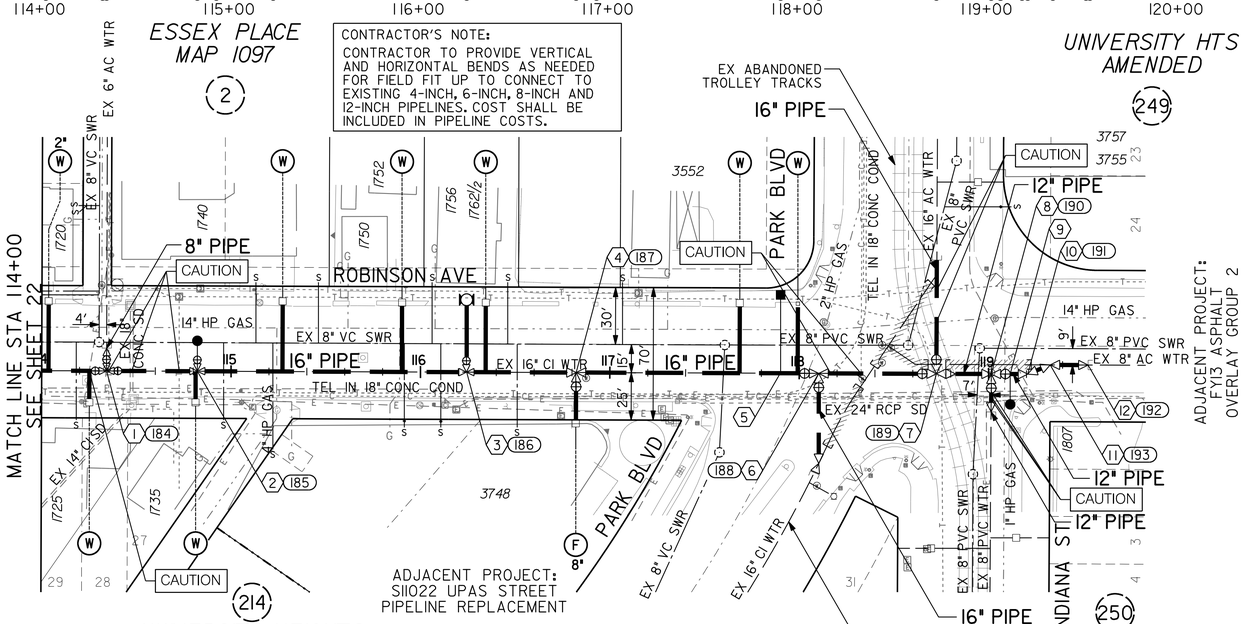
DETAIL A
ALLEY AT ROBINSON AVE.
NTS



DETAIL B
PARK BLVD. AT ROBINSON AVE.
NTS

REFERENCE:
WATER: 8055-5-W, 13110-2-D, 11138-7-D, 14432-2-D, 26328-2-D, 26328-4-D
SEWER: 14600-4-D, 14600-5-D, 14600-6-D, 26328-23-D, 30873-10-D, 30873-11-D
STORM DRAIN: 2715-L
GAS: 2-275, 11-329
ELECTRIC: 212-1722B
CABLE TV:
TELEPHONE: un040lad, un040lbc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-C6
HGL: 471.77

RETIREMENTS:
16" - 430' CI 1959
8" FIRE SERVICE
16" - 120' CI 1913
16" - 8' CI 1968
8" - 108' AC 1963
8" - 25' PVC 1993
¾" SERVICE - 3
2" SERVICE - 1
UNKN SERVICE - 4



(1) (184)
BY CONTRACTOR
FURNISH & INSTALL
STA 14+34.27
1- 16"x16"x8" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 8" GV (F, MJ) LT
1- 8"x6" RED (MJ) 12' LT
12" - 8" CL305 PIPE, LT
SEE DETAIL A

(2) (185)
BY CONTRACTOR
FURNISH & INSTALL
STA 14+82.20
1- 16"x16"x4" TEE (MJ, MJ, F) LT
1- 4" BLOW-OFF ASSY

(3) (186)
BY CONTRACTOR
FURNISH & INSTALL
STA 16+24.25
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER

(4) (187)
BY CONTRACTOR
FURNISH & INSTALL
STA 16+82.20
1- 16"x16"x8" TEE (MJ, MJ, F) RT
1- 8" FIRE SERVICE CONNECTION AND ASSY

(5)
BY CONTRACTOR
FURNISH & INSTALL
STA 17+88.00
1- 2" AIR/VACUUM VALVE ASSY, LT

(6) (188)
BY CONTRACTOR
FURNISH & INSTALL
STA 18+10.20
1- 16" TEE (F)
2 - 16" BFV (F, MJ) BK, RT
1- 16" 22½° BEND (MJ) 47.5' RT
52' - 16" CL305 PIPE, RT
SEE DETAIL B

(7) (189)
BY CONTRACTOR
FURNISH & INSTALL
STA 18+72.43
1- 16" TEE (F)
2 - 16" BFV (F, MJ) BK, LT
1- 16"x12" RED (F, MJ) AHD
SEE DETAIL B

(8) (190)
BY CONTRACTOR
FURNISH & INSTALL
STA 19+01.42
1- 12"x12" TEE (F)
2 - 12" GV (F, MJ) AHD, RT
1- 12"x8" RED (MJ) 20' RT
SEE DETAIL B

(9)
BY CONTRACTOR
FURNISH & INSTALL
STA 19+06.20
1- 2" BLOW-OFF ASSY, LT

(10) (191)
BY CONTRACTOR
FURNISH & INSTALL
STA 19+20.63
1- 12" 22½° BEND (MJ)
SEE DETAIL B

(11) (192)
BY CONTRACTOR
FURNISH & INSTALL
STA 19+33.47
1- 12" 22½° BEND (MJ)
SEE DETAIL B

(12) (193)
BY CONTRACTOR
FURNISH & INSTALL
STA 19+53.47
1- 12"x8" RED (MJ)
SEE DETAIL B
(END CONSTRUCTION OF LINE A)

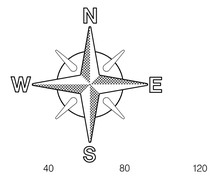
CAUTION
14" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JUDSON WARD
No. C43272
Ex. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE:
ALVARADO 536

C-20

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON AVENUE
16" WATER PIPELINE A
PLAN AND PROFILE
STA 114+00 TO STA 119+51.27

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 23 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafous — PROJECT MANAGER
CHECKED BY — PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

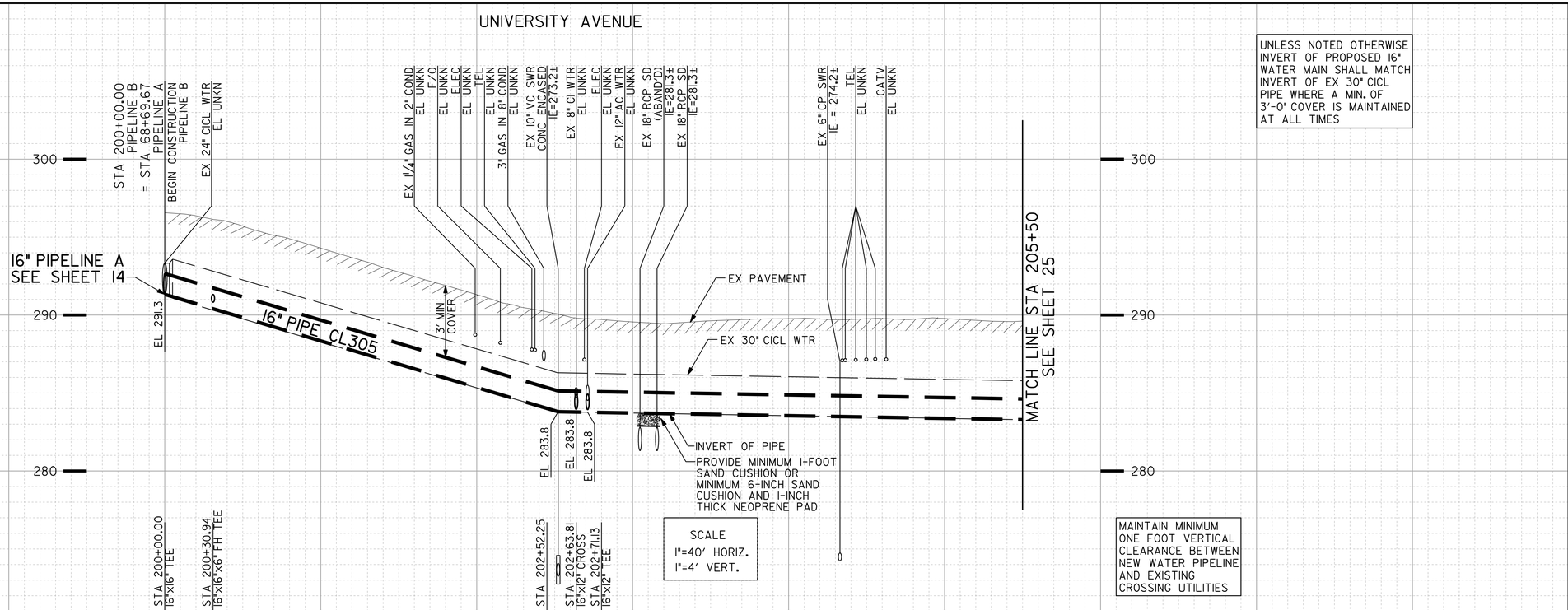
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-23-D

ROBINSON AVENUE

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C20.dgn
18-JUL-2014 15:16 therencia

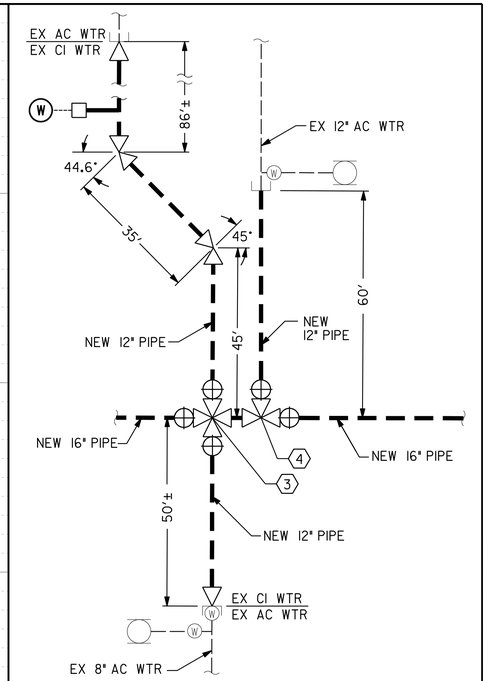
UNIVERSITY AVENUE



UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 30" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
SIXTH AVE. AT UNIVERSITY AVE.
NTS

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

1 200
BY CONTRACTOR
FURNISH & INSTALL

STA 200+00.00 PIPELINE B = STA 68+69.67 PIPELINE A
1 - 16" TEE (F)
3 - 16" BFV (F, MJ) AHD, LT, RT
SEE DETAIL B, SHT 14
(BEGIN CONSTRUCTION OF PIPELINE B)

2 201
BY CONTRACTOR
FURNISH & INSTALL

STA 200+30.94
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

3 202
BY CONTRACTOR
FURNISH & INSTALL

STA 202+63.81
1 - 16"x12" CROSS (F)
1 - 16" ADAPTER, AHD
1 - 16" BFV (F, MJ) BK
2 - 12" GV (F, MJ) LT, RT
1 - 12"x8" RED (MJ) 50' RT
2 - 12" 45° BEND (M) 45' LT, 80' LT
1 - 12"x10" RED (MJ) 155' LT
165' - 12" CL305 PIPE, LT
50' - 12" CL305 PIPE, RT
SEE DETAIL A

4 203
BY CONTRACTOR
FURNISH & INSTALL

STA 202+71.13
1 - 16"x16"x12" TEE (F)
1 - 16" ADAPTER, BK
1 - 16" BFV (F, MJ) AHD
1 - 12" GV (F, MJ) LT
60' - 12" CL305 PIPE, LT
SEE DETAIL A

REFERENCE:
WATER: 12395-6-D, 15598-4-D, 20548-5-D, 22706-17-D
SEWER: 505-1-D, 12395-2-D, 12395-3-D, 12395-4-D, 12395-5-D, 24090-D
STORM DRAIN: 16753-2-D
GAS: 2-261, 22-257, 2-257A, 22-286, 22-289
ELECTRIC: 212-1719A, 212-1719B
CABLE TV:
TELEPHONE: un0101ba, un0101bb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-A5
HGL: 468.44

RETIREMENTS:
30" - 550' CICL 1909
FH (6-PORT) - 1
12" - 60' AC 1967
8" - 166' CI 1909
8" - 50' CI 1959
¾" SERVICE - 2
2" SERVICE - 1
UNKN SERVICE - 1

PRESSURE ZONE: ALVARADO 536

C-21

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CAUTION
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
PHILIP JUDSON WASSON
No. C43272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 200+00 TO STA 205+50

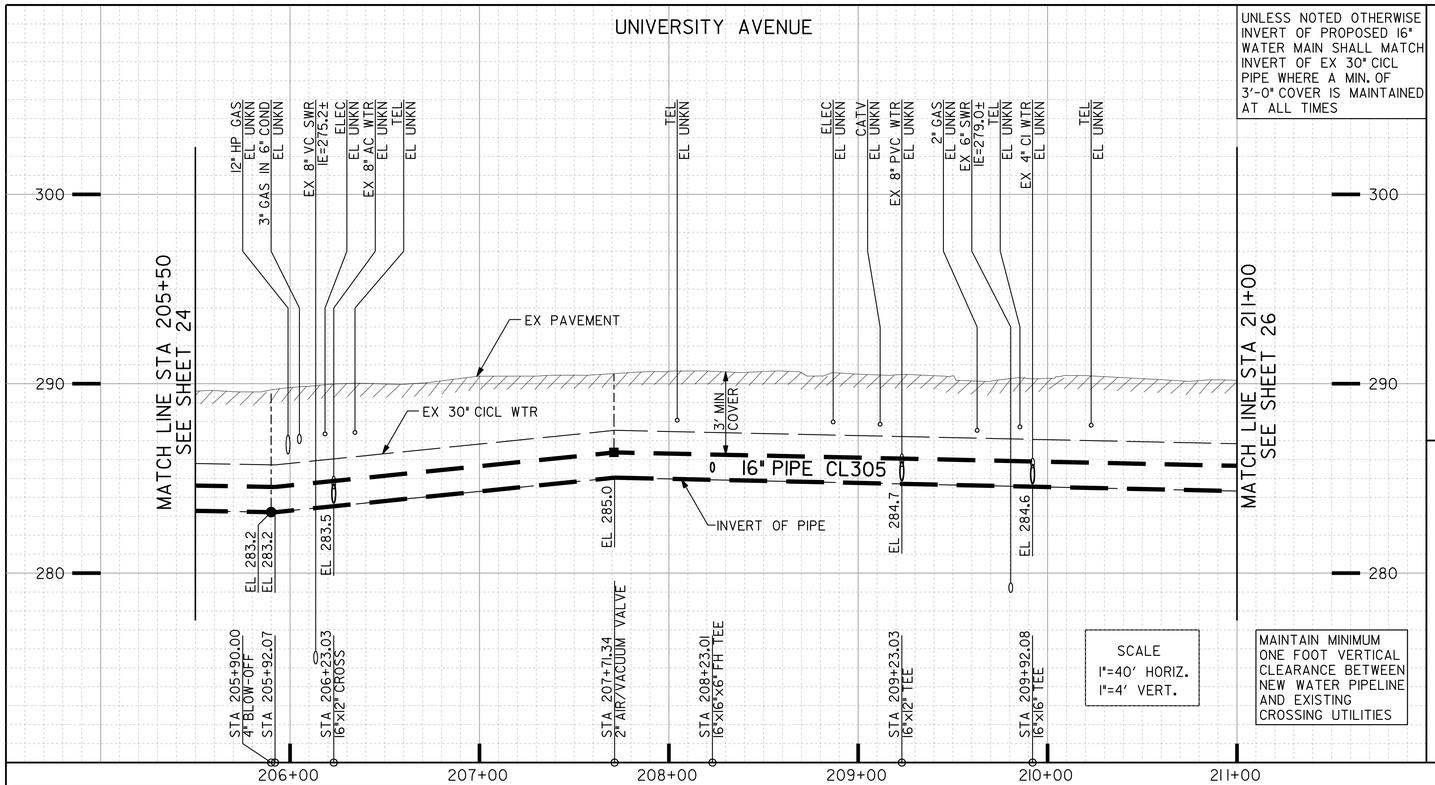
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 24 OF 86 SHEETS

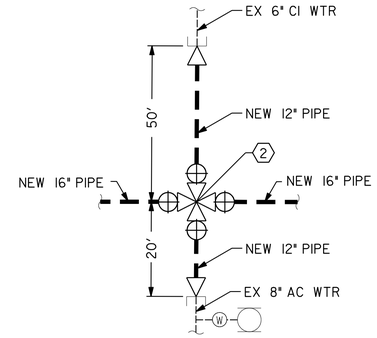
APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

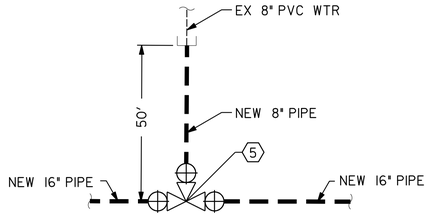
WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafouna PROJECT MANAGER
CHECKED BY PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED
36656-24-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C21.dgn
18-JUL-2014 15:17 therencia

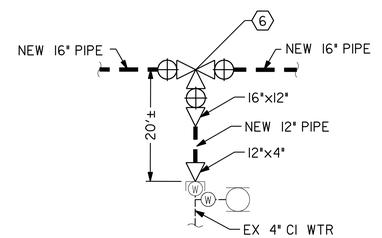




DETAIL A
SEVENTH AVE. AT UNIVERSITY AVE.
NTS



DETAIL B
EIGHTH AVE. (NORTH) AT UNIVERSITY AVE.
NTS

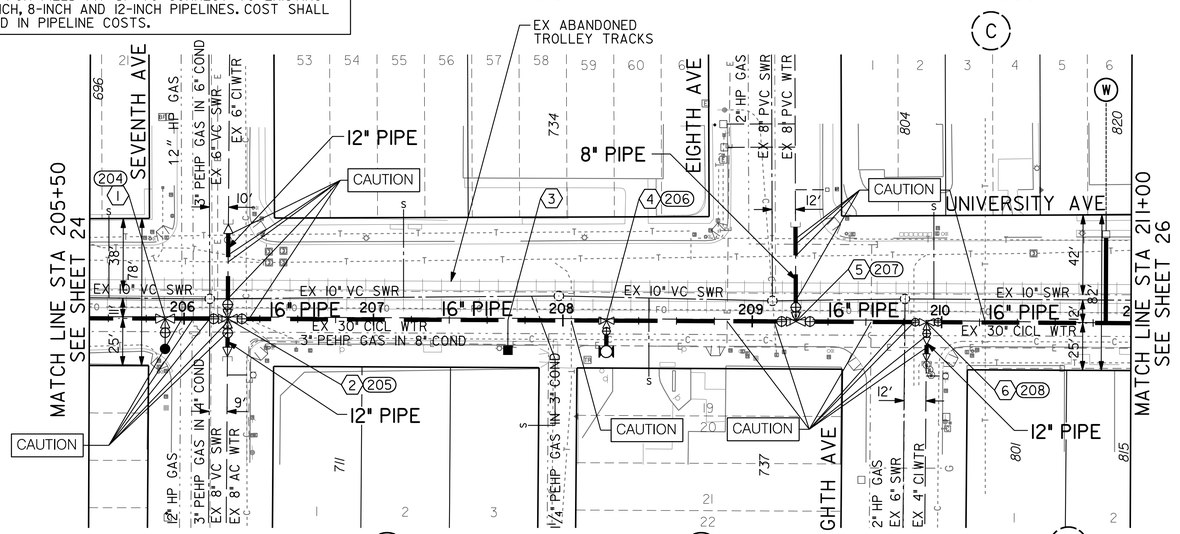


DETAIL C
EIGHTH AVE. (SOUTH) AT UNIVERSITY AVE.
NTS

REFERENCE:
WATER: 15598-3-D, 20548-6-D, 31951-19-D
SEWER: 508-12-L, 31951-2-D
STORM DRAIN:
GAS: 2-261, 2-262, 22-283, 22-285
ELECTRIC: 212-1719B
CABLE TV:
TELEPHONE: un020laa
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-B5
HGL: 469.15

RETIREMENTS:
30" - 550' CICL 1909
6" - 50' CI 1909
8" - 20' AC 1965
8" - 50' PVC 2006
4" - 20' CI 1909
¾" SERVICE - 1

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.



1 (204)
BY CONTRACTOR
FURNISH & INSTALL
STA 205+90.00
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" BLOW-OFF ASSY

2 (205)
BY CONTRACTOR
FURNISH & INSTALL
STA 206+23.03
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
1- 12"x6" RED (MJ) 50' LT
1- 12"x8" RED (MJ) 20' RT
50' - 12" CL305 PIPE, LT
20' - 12" CL305 PIPE, RT
SEE DETAIL A

3
BY CONTRACTOR
FURNISH & INSTALL
STA 207+71.34
1- 2" AIR/VACUUM VALVE ASSY, RT

4 (206)
BY CONTRACTOR
FURNISH & INSTALL
STA 208+23.01
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

5 (207)
BY CONTRACTOR
FURNISH & INSTALL
STA 209+23.03
1- 16"x16"x8" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 8" GV (F, MJ) LT
50' - 8" CL305 PIPE, LT
SEE DETAIL B

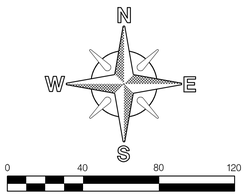
6 (208)
BY CONTRACTOR
FURNISH & INSTALL
STA 209+92.08
1- 16"x16"x16" TEE (F)
3 - 16" BFV (F, MJ) BK, AHD
1- 16"x12" RED (F, MJ) RT
1- 12"x4" RED (MJ) 20' RT
20' - 12" CL305 PIPE, RT
SEE DETAIL C

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CAUTION
3" PEHP GAS IN 8" CONDUIT AND 12" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JUDSON WARD
No. C43272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-22

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 205+50 TO STA 211+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 25 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

WATER WBS S-11021
SEWER WBS N/A

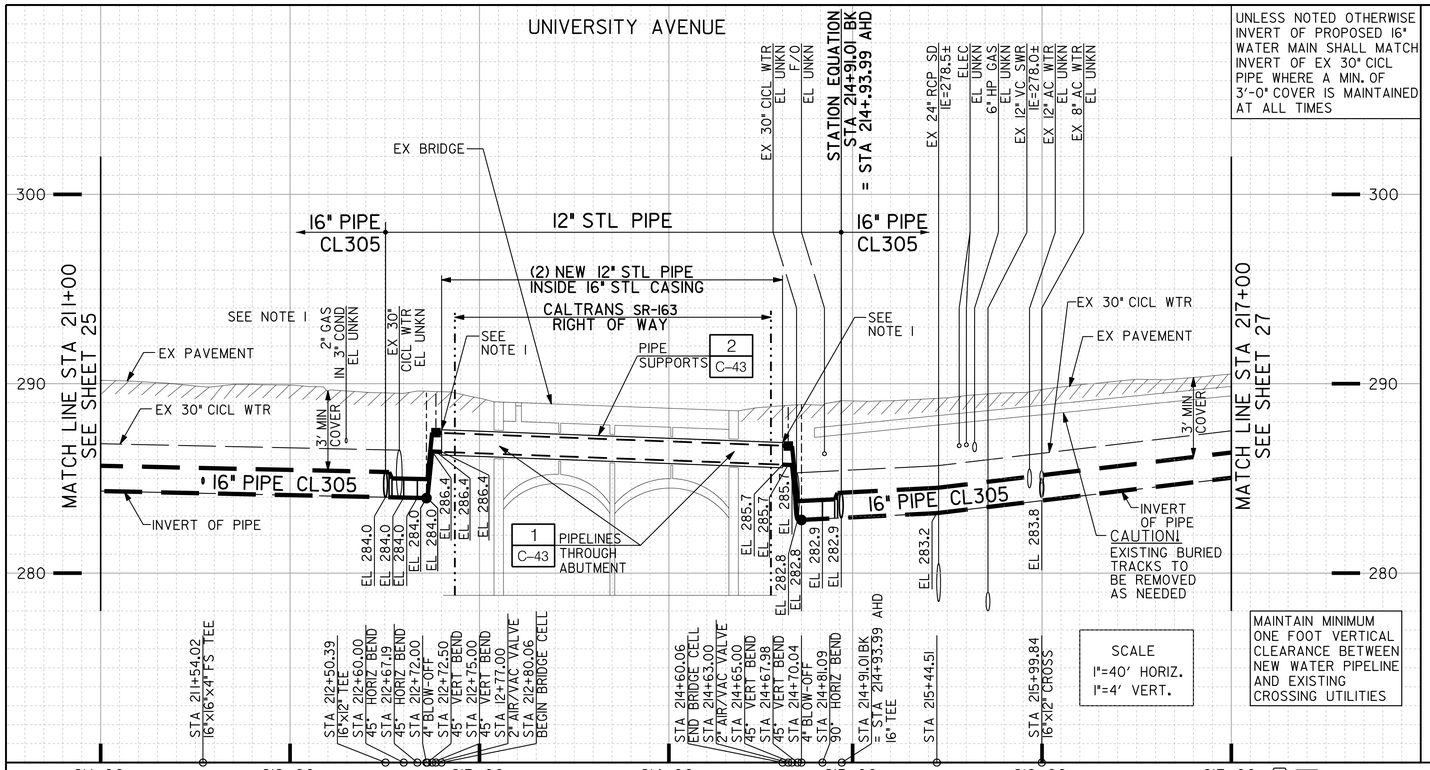
DESIGNED BY: F. Michael Bagoua, PROJECT MANAGER
CHECKED BY: Francisco Rocha, PROJECT ENGINEER

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

36656-25-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C22.dgn
18-JUL-2014 15:17 therencia

UNIVERSITY AVENUE



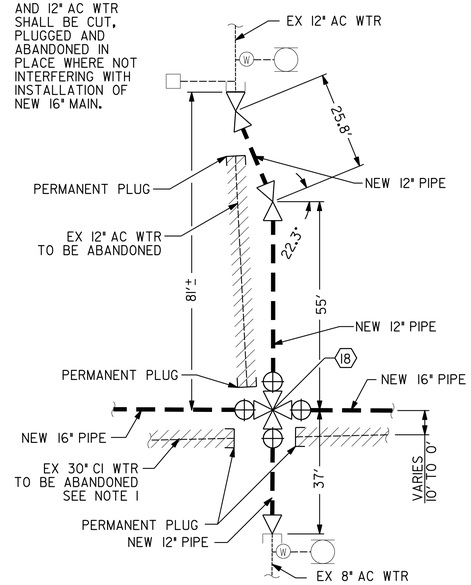
SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 30" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

NOTE:

1. EXISTING 30" CI AND 12" AC WTR SHALL BE CUT, PLUGGED AND ABANDONED IN PLACE WHERE NOT INTERFERING WITH INSTALLATION OF NEW 16" MAIN.



DETAIL A
TENTH AVE. AT UNIVERSITY AVE.
NTS

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

REFERENCE:

WATER: C-1315-43, 15598-3-D, 20548-6-D, 3195I-19-D
SEWER: 508-12-L, 3195I-2-D
STORM DRAIN:
GAS: 2-261, 2-262, 22-283, 22-285
ELECTRIC: 212-1719B
CABLE TV:
TELEPHONE: un020laa
IMPROVEMENTS: CALTRANS C-1315
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-B5
HGL: 469.79

RETIREMENTS:

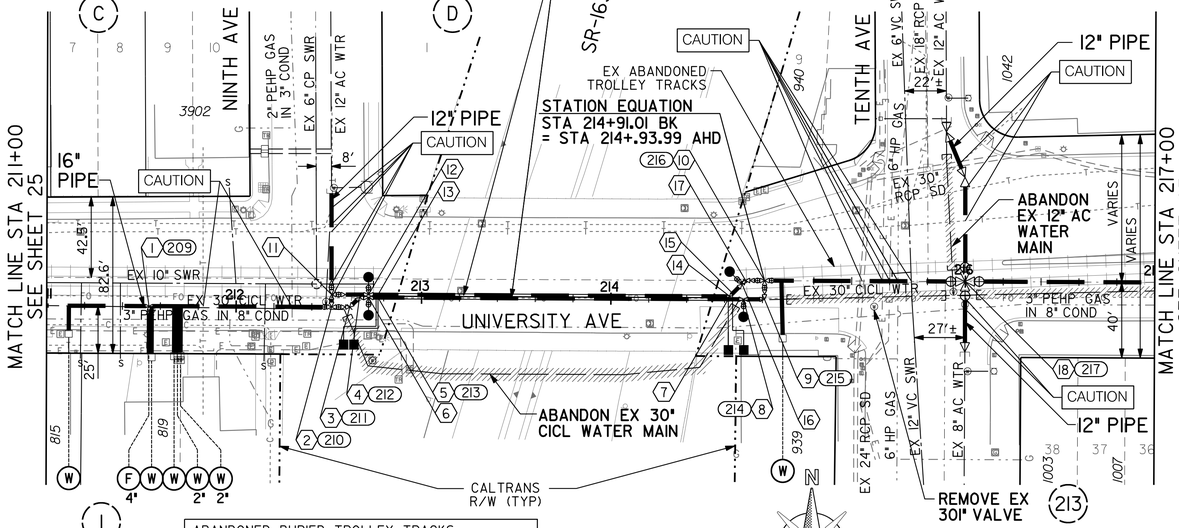
30" - 380' CICL 1909
30" - 250' CICL 1946
12" - 60' AC 1984
12" - 91' AC 1991
8" - 27' AC 1967
¾" SERVICE - 1
1" SERVICE - 1
UNKN SERVICE - 4

NOTES:

1. CONTRACTOR SHALL PROVIDE FLANGED FORCE-BALABNCED FLEX-TEND FLEXIBLE EXPANSION JOINTS, EBAA IRON MODEL 44I2520B OR APPROVED EQUAL, ON BOTH SIDES OF BRIDGE CROSSING ON EACH OF THE 12" STEEL PIPES.
2. EX 5-INCH FIBER OPTIC CONDUIT AND CABLE LOCATED IN EX UTILITY CELL THROUGH BRIDGE ABUTMENTS SHALL BE RELOCATED TO ADJACENT UTILITY CELL BY A VERIZON APPROVED SUB-CONTRACTOR PRIOR TO START OF CONSTRUCTION THROUGH PRE-NEGOTIATED WORK PACKAGE IDENTIFIED AS A BID ITEM IN THE BID SCHEDULE.
3. SEE SHEETS 45 AND 46 FOR ADDITIONAL NOTES AND DETAILS OF BRIDGE CROSSING.
4. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

ESTUDILLO & CAPRON'S ADDITION MAP 650

MAP 1005 LA CANYADA ADDITION

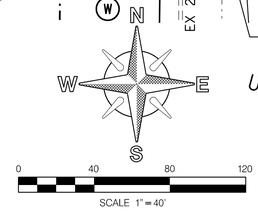


1 C-42 (2) NEW 12" STL PIPE INSIDE 16" STL CASING IN BRIDGE CELL

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.



UNIVERSITY HTS AMENDED

(1)(209) BY CONTRACTOR FURNISH & INSTALL
STA 211+54.02
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" FIRE SERVICE AND ASSY

(2)(210) BY CONTRACTOR FURNISH & INSTALL
STA 212+50.39
1- 16" TEE (F)
1- 16" ADAPTER, LT
1- 16" BFV (F) AHD
1- 16"x12" RED (F) AHD
1- 16" BFV (F, MJ) BK
60' - 12" CL305 PIPE, LT

(3)(211) BY CONTRACTOR FURNISH & INSTALL
STA 212+60.00
1- 12" 45° STL BEND (PE)

(4)(212) BY CONTRACTOR FURNISH & INSTALL
STA 212+67.19
1- 12" 45° STL BEND (PE)

(5)(213) BY CONTRACTOR FURNISH & INSTALL
STA 212+72.00
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" BLOW-OFF ASSY

(6) BY CONTRACTOR FURNISH & INSTALL
STA 212+77.00
1- 2" AIR/VACUUM VALVE ASSY, RT

(7) BY CONTRACTOR FURNISH & INSTALL
STA 214+63.00
1- 2" AIR/VACUUM VALVE ASSY, RT

(8)(214) BY CONTRACTOR FURNISH & INSTALL
STA 214+70.04
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" BLOW-OFF ASSY

(9)(215) BY CONTRACTOR FURNISH & INSTALL
STA 214+81.09
1- 12" 90° STL BEND (PE)

(10)(216) BY CONTRACTOR FURNISH & INSTALL
STATION EQUATION
STA 214+91.01 BK =
STA 214+93.99 AHD
1- 16" TEE (F)
2 - 16" BFV (F) BK, LT
1- 16" BFV (F, MJ) AHD
2 - 16"x12" RED (F) BK, LT

(11) BY CONTRACTOR FURNISH & INSTALL
STA 212+50.38 (6.58 LT)
1- 16" TEE (F)
1- 16" ADAPTER, RT
2 - 16" BFV (F) AHD, LT
1- 16"x12" RED (F, MJ) LT
1- 16"x12" RED (F) AHD

(12) BY CONTRACTOR FURNISH & INSTALL
STA 212+70.00 (1.5' LT)
1- 16"x16"x4" TEE (MJ, MJ, F) LT
1- 4" BLOW-OFF ASSY

(13) BY CONTRACTOR FURNISH & INSTALL
STA 212+77.00 (1.5' LT)
1- 2" AIR/VACUUM VALVE ASSY, RT

(14) BY CONTRACTOR FURNISH & INSTALL
STA 214+62.68 (1.5' LT)
1- 12" 45° STL BEND (PE)

(15) BY CONTRACTOR FURNISH & INSTALL
STA 214+64.25 (3.1' LT)
1- 2" AIR/VACUUM VALVE ASSY, RT

(16) BY CONTRACTOR FURNISH & INSTALL
STA 214+69.20 (4.3' LT)
1- 16"x16"x4" TEE (MJ, MJ, F) LT
1- 4" BLOW-OFF ASSY

(17) BY CONTRACTOR FURNISH & INSTALL
STA 214+71.09 (9.79' LT)
1- 12" 45° STL BEND (PE)

(18)(217) BY CONTRACTOR FURNISH & INSTALL
STA 215+99.84
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
1- 12"x8" RED (MJ) 37' RT
2 - 12" 22 1/2° BEND (MJ) 55' LT & 79' LT
85' - 12" CL305 PIPE, LT
37' - 12" CL305 PIPE, RT
SEE DETAIL A

PRESSURE ZONE: ALVARADO 536

C-23

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

CAUTION
3" PEHP GAS IN 8" CONDUIT & 6" HP GAS!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON WARD No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVENUE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 211+00 TO STA 217+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 26 OF 86 SHEETS

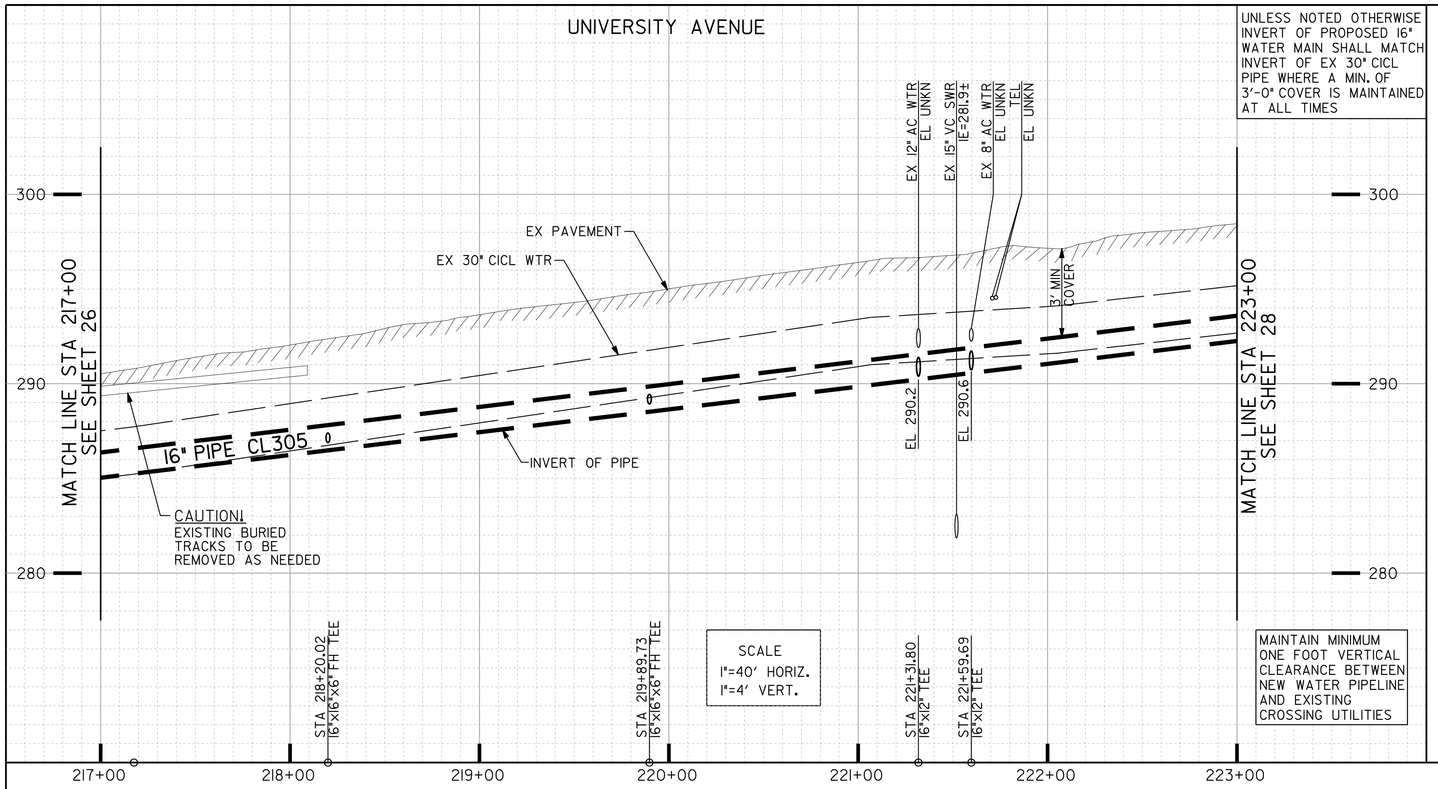
APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

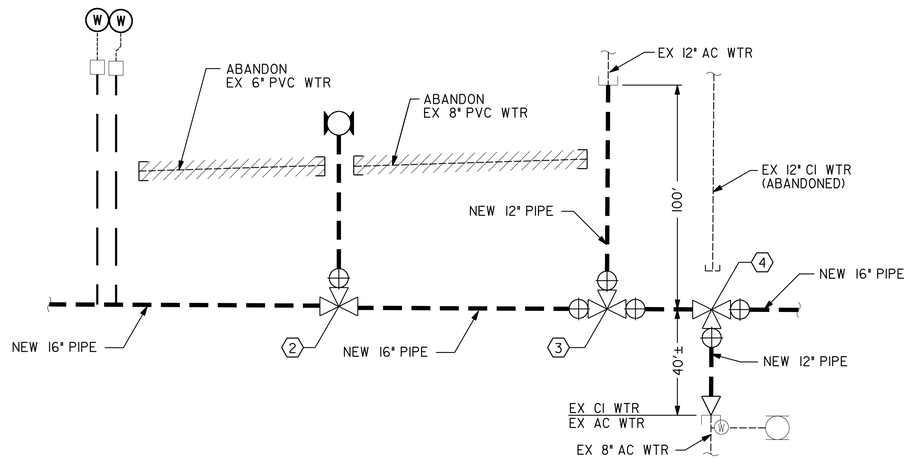
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bogovac PROJECT MANAGER
CHECKED BY Thomas Boehm PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED
36656-26-D

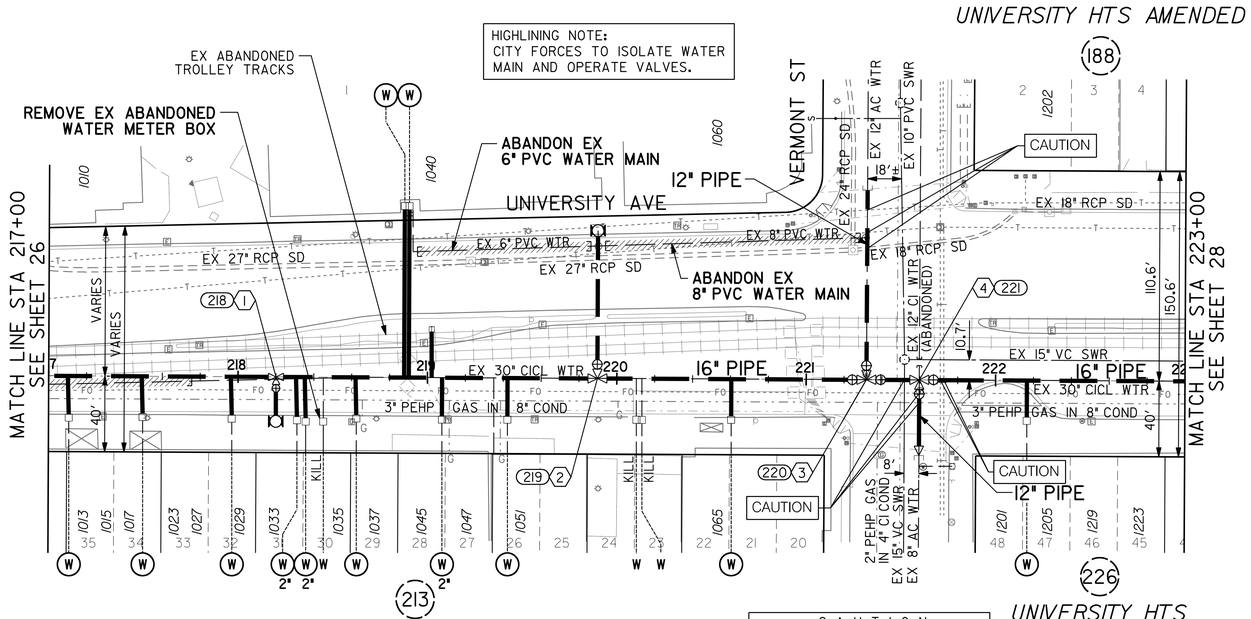
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C23.dgn
18-JUL-2014 15:18 therencia

(X) (XX)





DETAIL A
VERMONT ST. AT UNIVERSITY AVE.
NTS



1 218
BY CONTRACTOR
FURNISH & INSTALL
STA 218+20.02
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

2 219
BY CONTRACTOR
FURNISH & INSTALL
STA 219+89.73
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)
SEE DETAIL A

3 220
BY CONTRACTOR
FURNISH & INSTALL
STA 221+31.80
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
100' - 12" CL305 PIPE, LT
SEE DETAIL A

4 221
BY CONTRACTOR
FURNISH & INSTALL
STA 221+59.69
1 - 16"x16"x12" TEE (F)
1 - 16" ADAPTER, BK
1 - 16" BFV (F, MJ) AHD
1 - 12" GV (F, MJ) RT
1 - 12"x8" RED (MJ) 40' RT
40' - 12" CL305 PIPE, RT
SEE DETAIL A

REFERENCE:
WATER: 12471-5-D, 12471-11-D, 15598-3-D, 24586-4-D, 24586-6-D, 24586-16-D
SEWER: 987-D, 13482-2-D, 13482-3-D, 31951-4-D
STORM DRAIN: 24586-4-D, 24586-5-D
GAS: 2-267, 2-268, 2-281, 22-283
ELECTRIC: 212-1719B, 212-1722A
CABLE TV:
TELEPHONE: un020lab, un020lba
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-B5
HGL: 470.37

RETIREMENTS:
30" - 600' CICL 1909
FH (6-PORT) - 1
12" - 100' AC 1991
12" - 40' CI 1924
8" - 142' PVC 1991
6" - 95' PVC 1991
¾" SERVICE - 4
1" SERVICE - 3
UNKN SERVICE - 5

PRESSURE ZONE: ALVARADO 536

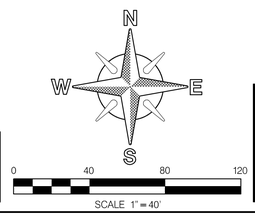
CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

UNIVERSITY HTS AMENDED

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CAUTION
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
GEOFFREY JUDSON WARREN
NO. CA 52172
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

C-24

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 217+00 TO STA 223+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 27 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH — DATE 6-9-2014
PRINT NAME

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafouna PROJECT MANAGER
CHECKED BY Francisco Rodriguez PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

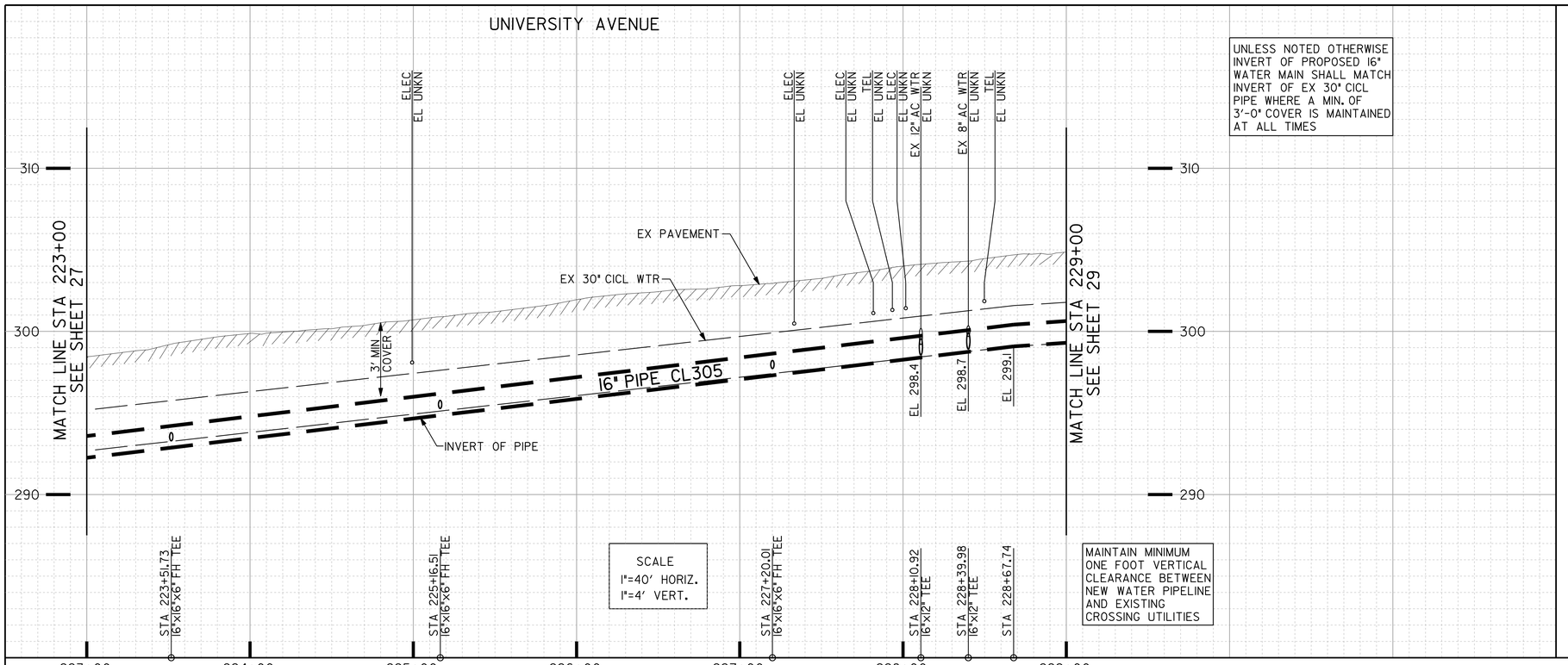
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-27-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C24.dgn
18-JUL-2014 15:19 therencia

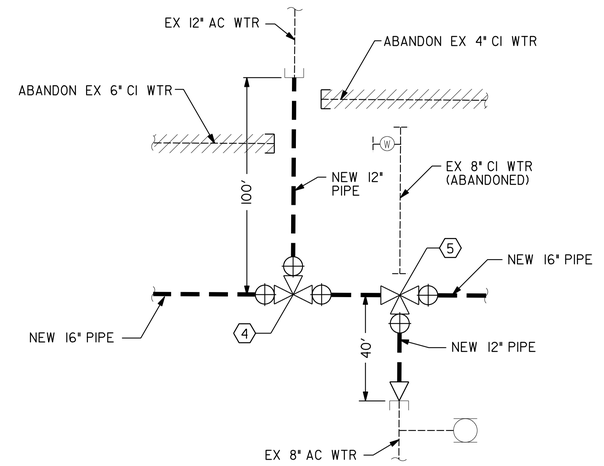
UNIVERSITY AVENUE



UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 30" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

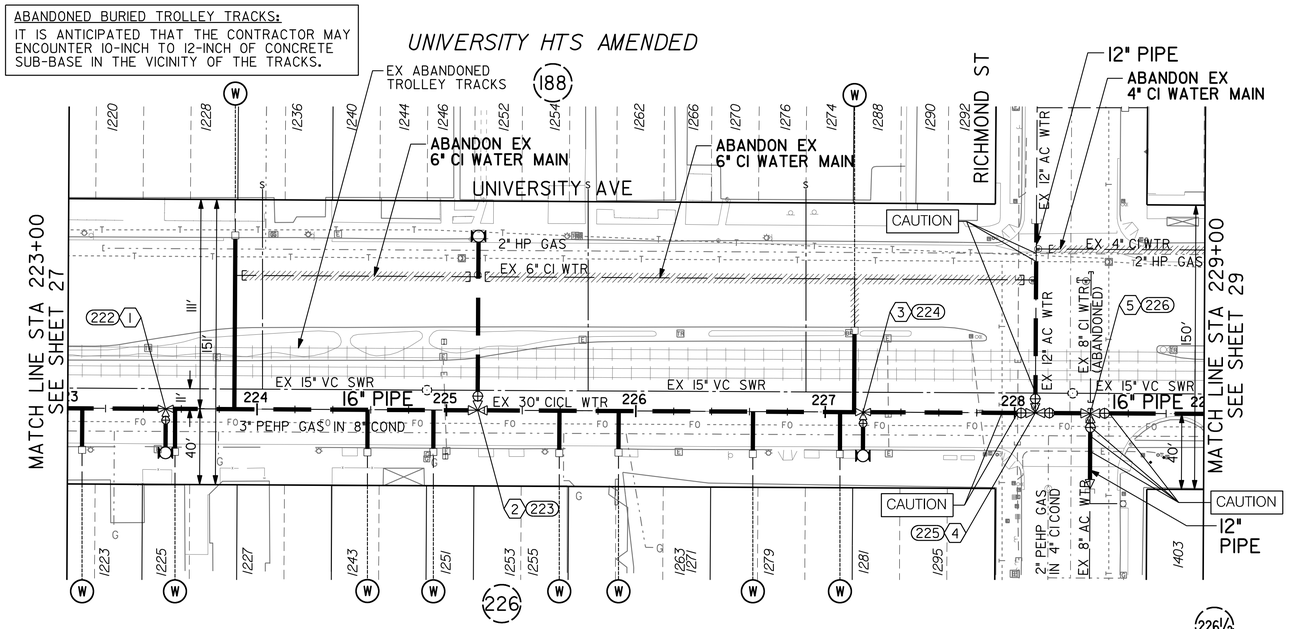
SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
RICHMOND ST. AT UNIVERSITY AVE.
NTS

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.



1 222
BY CONTRACTOR
FURNISH & INSTALL
STA 223+51.73
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

2 223
BY CONTRACTOR
FURNISH & INSTALL
STA 225+16.51
1- 16"x16"x6" TEE (MJ, MJ, F) LT
1- 6", 3-PORT FH ASSY & MARKER

3 224
BY CONTRACTOR
FURNISH & INSTALL
STA 227+20.01
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

4 225
BY CONTRACTOR
FURNISH & INSTALL
STA 228+10.92
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
100' - 12" CL305 PIPE, LT
SEE DETAIL A

5 226
BY CONTRACTOR
FURNISH & INSTALL
STA 228+39.98
1- 16"x16"x12" TEE (F)
1- 16" ADAPTER, BK
1- 16" BFV (F, MJ) AHD
1- 12" GV (F, MJ) RT
1- 12"x8" RED (MJ) 40' RT
40' - 12" CL305 PIPE, RT
SEE DETAIL A

REFERENCE:
WATER: 12471-3-D, 15598-3-D, 24586-6-D
SEWER: 13482-3-D
STORM DRAIN:
GAS: 2-268, 2-270, 2-281, 22-348
ELECTRIC: 212-1722A
CABLE TV:
TELEPHONE: un020lbb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-B5
HGL: 470.95

RETIREMENTS:
30" - 600' CICL 1909
FH (6-PORT) - 1
12" - 100' AC 1991
8" - 40' AC 1967
6" - 423' CI 1914
4" - 89' CI 1914
¾" SERVICE - 5
1" SERVICE - 2
UNKN SERVICE - 3

PRESSURE ZONE: ALVARADO 536

C-25

CAUTION
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

226½
UNIVERSITY HTS AMENDED

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

N W E S
0 40 80 120
SCALE 1" = 40'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
RAJ JUDSON WASHINGTON
No. C43272
Ex. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVENUE

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 223+00 TO STA 229+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 28 OF 86 SHEETS

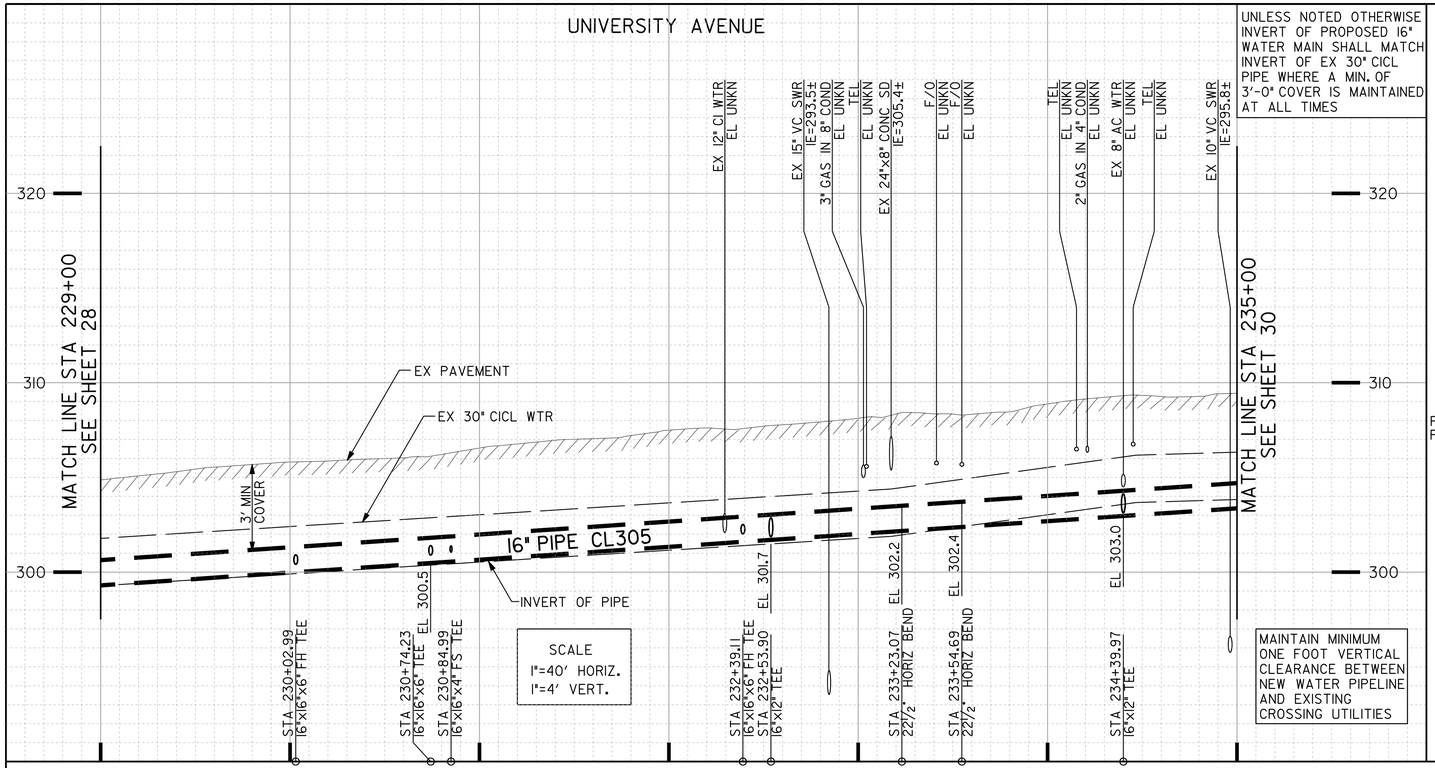
APPROVED: FOR CITY ENGINEER — DATE 6-9-2014
IRAJ ASCHARZADEH
PRINT NAME

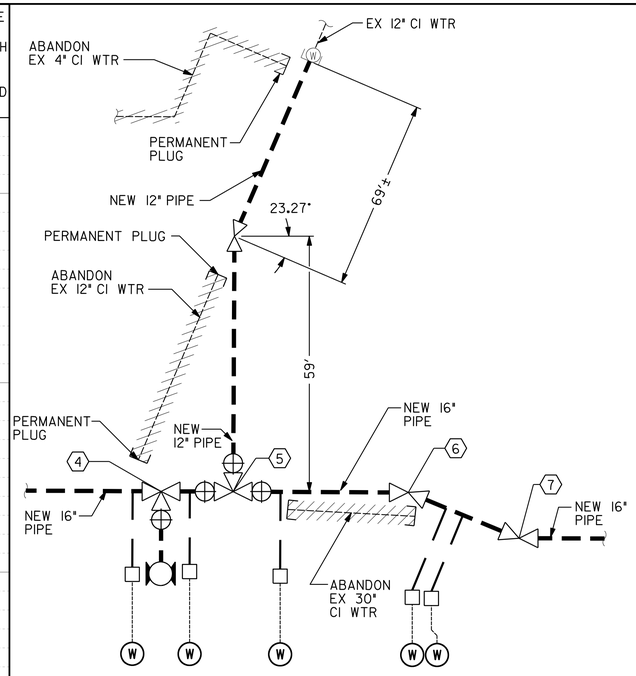
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

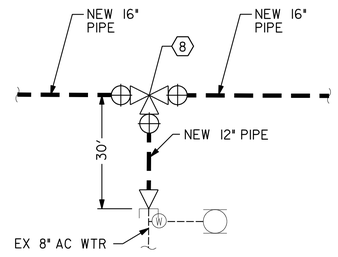
WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafous PROJECT MANAGER
CHECKED BY Thomas Bailey PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-28-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C25.dgn
18-JUL-2014 15:20 therencia





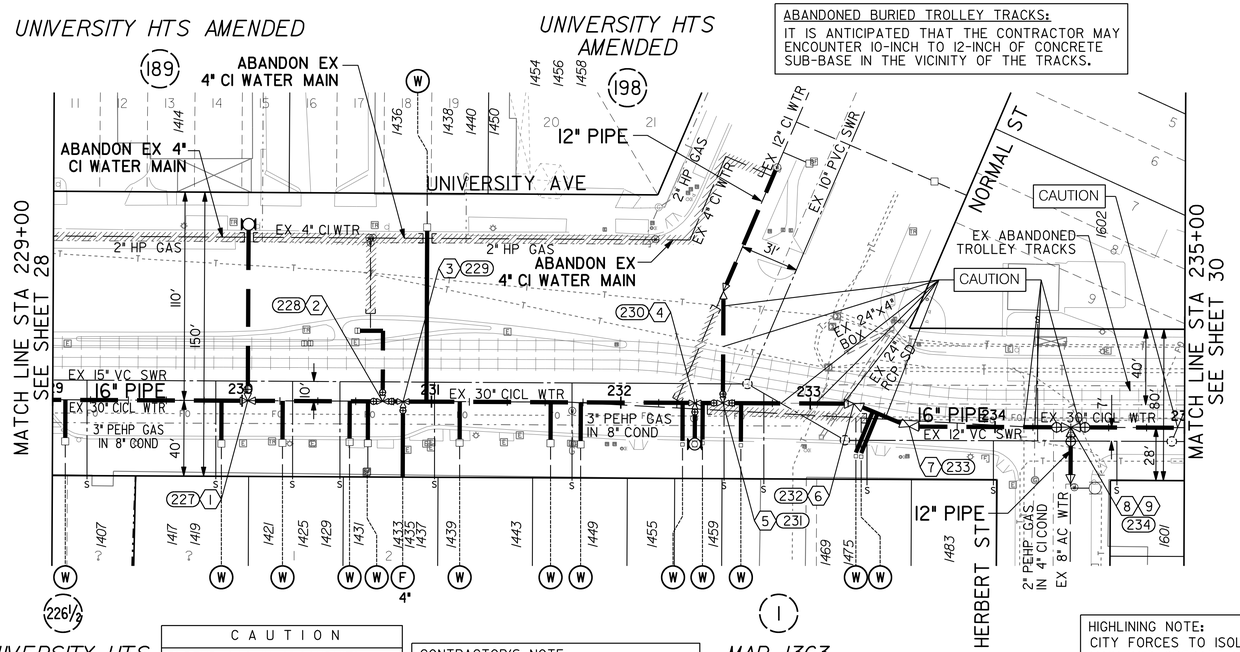
DETAIL A
NORMAL ST. AT UNIVERSITY AVE.
NTS



DETAIL B
HERBERT ST. AT UNIVERSITY AVE.
NTS

REFERENCE:
WATER: 12471-3-D, 14432-2-D, 15598-3-D, 20548-12-D, 26328-2-D, 26575-7-D
SEWER: 4188-1-L, 13482-3-D, 13482-4-D, 26575-25-D
STORM DRAIN:
GAS: 2-271, 22-271, 22-346, 22-347
ELECTRIC: 212-1722B
CABLE TV:
TELEPHONE: un040laa, un040lab
IMPROVEMENTS:
100' SCALE/FIELD BOOK: GI9S
THOMAS BROS.: 1269-C5
HGL: 471.27

RETIREMENTS:
30" - 600' CICL 1909
4" FIRE SERVICE - 1
FH (6-PORT) - 1
12" - 132' CI 1914
4" - 411' CI 1914
8" - 30' AC 1984
¾" SERVICE - 3
1" SERVICE - 5
UNKN SERVICE - 5



UNIVERSITY HTS AMENDED

MAP 1363 UNIVERSITY PLACE

CAUTION
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

1 (227)
BY CONTRACTOR
FURNISH & INSTALL
STA 230+02.99
1 - 16"x16"x6" TEE (MJ, MJ, F) LT
1 - 6", 3-PORT FH ASSY & MARKER

2 (228)
BY CONTRACTOR
FURNISH & INSTALL
STA 230+74.23
1 - 16"x16"x6" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 6" GV (F, MJ) LT
CONNECT TO EX IRRIGATION

3 (229)
BY CONTRACTOR
FURNISH & INSTALL
STA 230+84.99
1 - 16"x16"x4" TEE (MJ, MJ, F) RT
1 - 4 FIRE SERVICE & ASSY

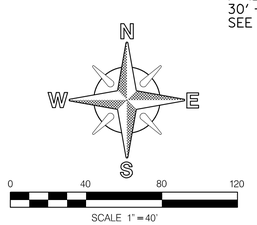
4 (230)
BY CONTRACTOR
FURNISH & INSTALL
STA 232+39.11
1 - 16"x16"x6" TEE (MJ, MJ, F) LT
1 - 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

5 (231)
BY CONTRACTOR
FURNISH & INSTALL
STA 232+53.90
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
1 - 12" 22½° BEND (MJ) 59' LT
128' - 12" CL305 PIPE, LT
SEE DETAIL A

6 (232)
BY CONTRACTOR
FURNISH & INSTALL
STA 233+23.07
1 - 16" 22½° BEND (MJ)

7 (233)
BY CONTRACTOR
FURNISH & INSTALL
STA 233+54.69
1 - 16" 22½° BEND (MJ)

8 (234)
BY CONTRACTOR
FURNISH & INSTALL
STA 234+39.97
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) RT
1 - 12"x8" RED (MJ) 30' RT
30' - 12" CL305 PIPE, RT
SEE DETAIL B



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-26

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 229+00 TO STA 235+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 29 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

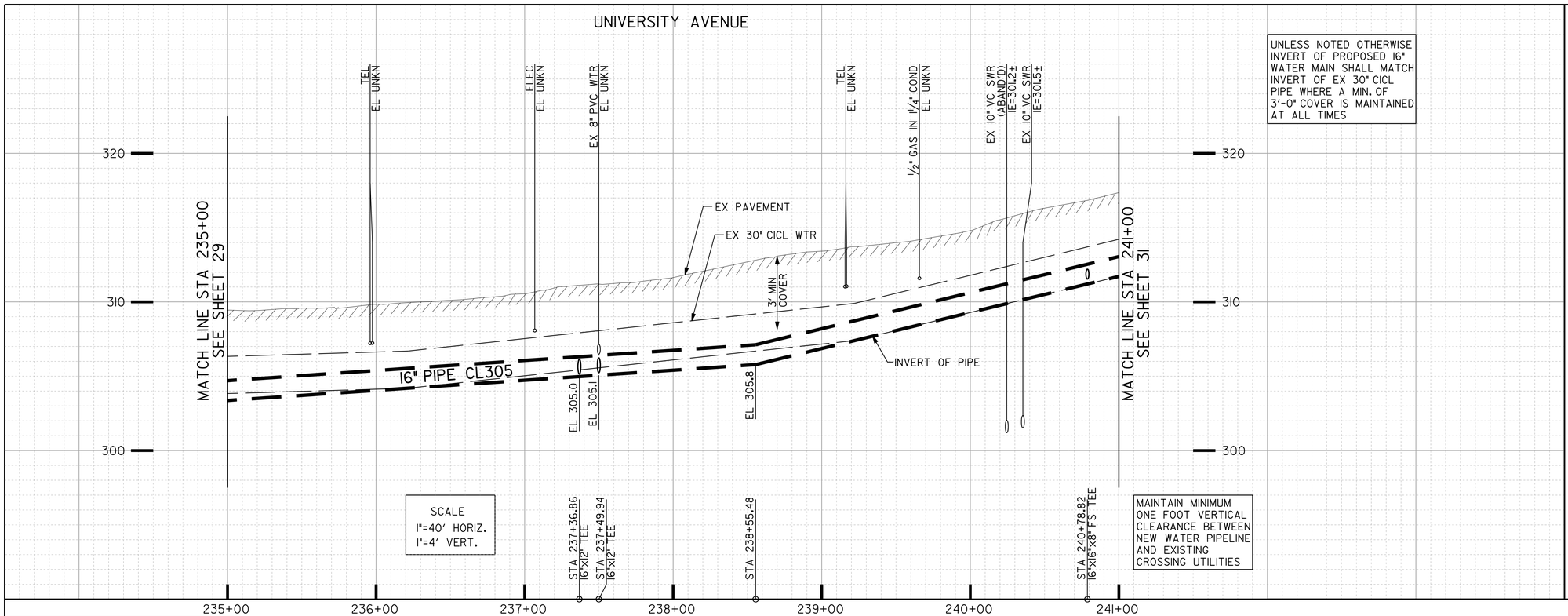
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A

DESIGNED BY F. Michael Bafouna PROJECT MANAGER
CHECKED BY Francisco Gaeta PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-29-D

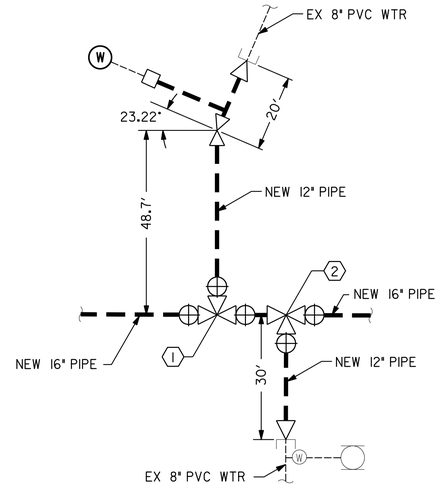
UNIVERSITY AVENUE



UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 30" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

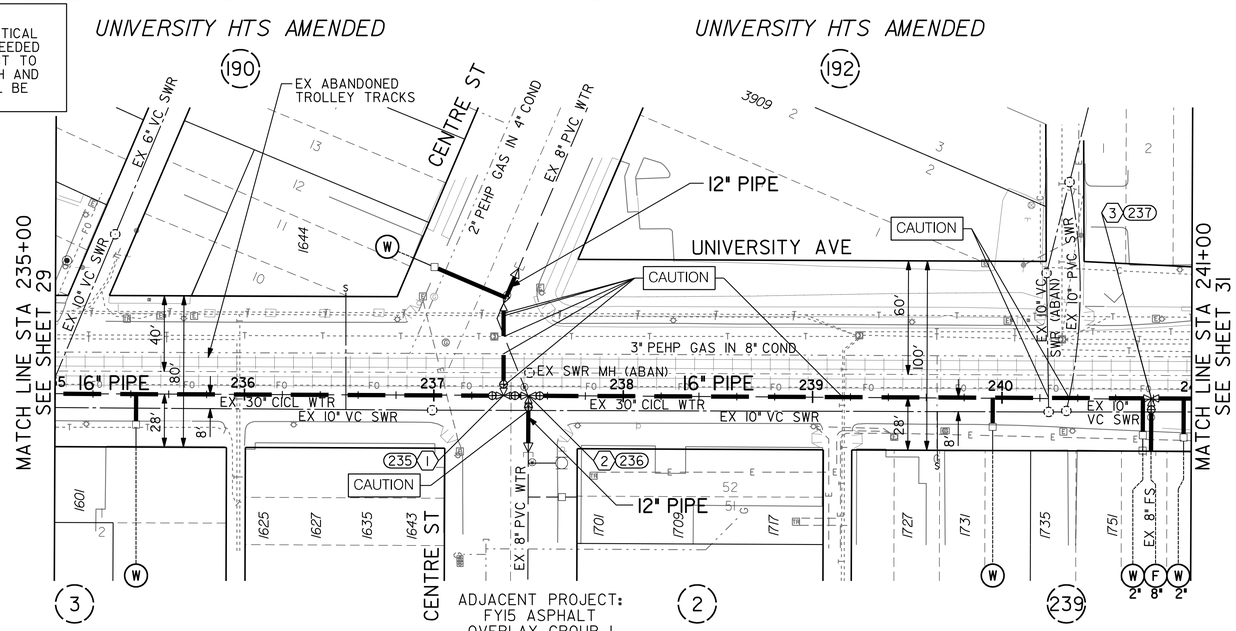
SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
CENTRE ST. AT W. UNIVERSITY AVE.
NTS

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.



ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

C A U T I O N
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

1 235
BY CONTRACTOR
FURNISH & INSTALL
STA 237+36.86
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
1- 12" 22½° BEND (MJ) 48.7' LT
1- 12"x8" RED (MJ) 67' LT
68' - 12" CL305 PIPE, LT
SEE DETAIL A

2 236
BY CONTRACTOR
FURNISH & INSTALL
STA 237+49.94
1- 16"x16"x12" TEE (F)
1- 16" ADAPTER, BK
1- 16" BFV (F, MJ) AHD
1- 12" GV (F, MJ) RT
1- 12"x8" RED (MJ) 30' RT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

3 237
BY CONTRACTOR
FURNISH & INSTALL
STA 240+78.82
1- 16"x16"x8" TEE (MJ, MJ, F) RT
1- 8" FIRE SERVICE AND ASSY

N
W E
S
0 40 80 120
SCALE 1" = 40'

REFERENCE:
WATER: 12471-3-D, 14432-2-D, 15598-3-D, 20548-12-D, 26328-2-D, 26575-11-D
SEWER: 4188-1-L, 13482-3-D, 13482-4-D, 26575-25-D
STORM DRAIN:
GAS: 2-271, 22-271, 22-346, 22-347
ELECTRIC: 212-1722B
CABLE TV:
TELEPHONE: un040laa, un040lab
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-C5
HGL: 472.13

RETIREMENTS:
30" - 600' CICL 1909
8" FIRE SERVICE - 1
8" - 72' PVC 1995
8" - 30' PVC 1993
¾" SERVICE - 1
1" SERVICE - 1
2" SERVICE - 2
UNKN SERVICE - 1

PRESSURE ZONE: ALVARADO 536

C-27

UNIVERSITY AVENUE

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 235+00 TO STA 241+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 30 OF 86 SHEETS

APPROVED: _____ 6-9-2014
FOR CITY ENGINEER — DATE
IRAJ ASCHARZADEH
PRINT NAME

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

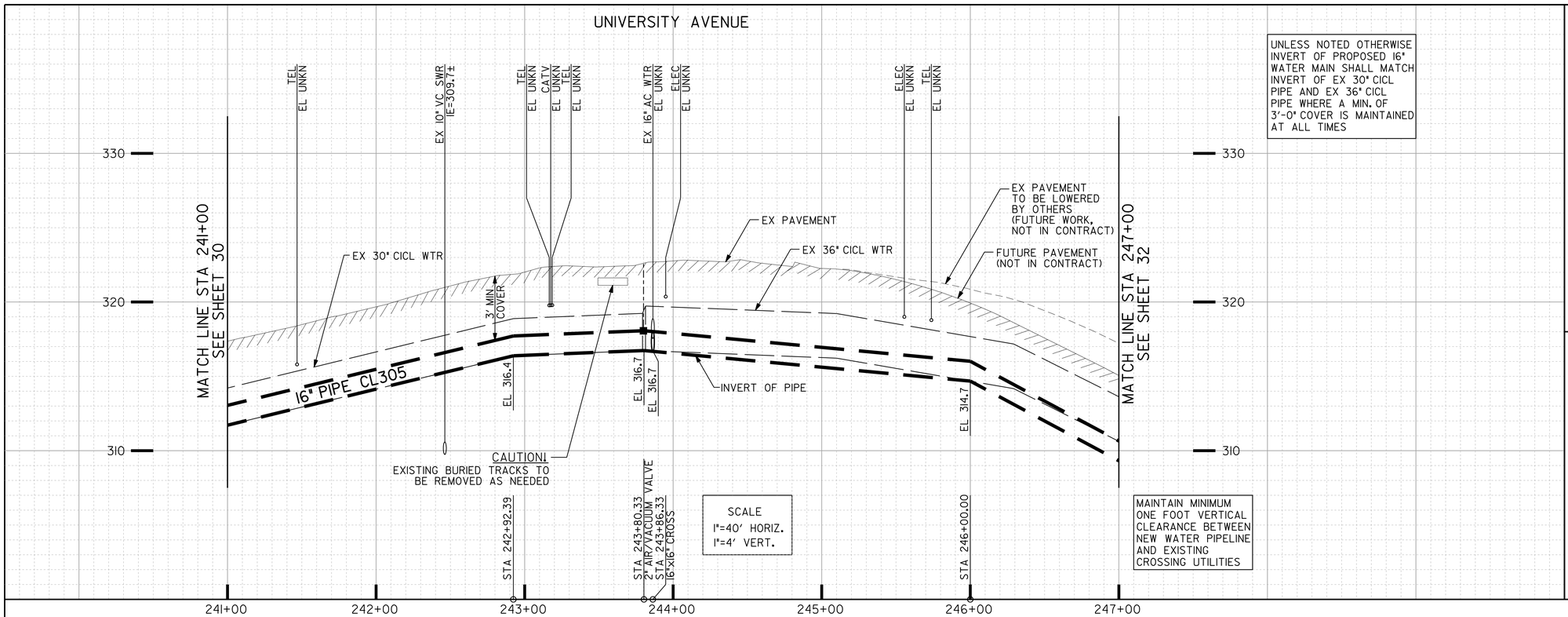
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
DEPUTY DIRECTOR: F. Michael Bofenkamp, PROJECT MANAGER
CONCUR: Thomas Bailey, PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-30-D

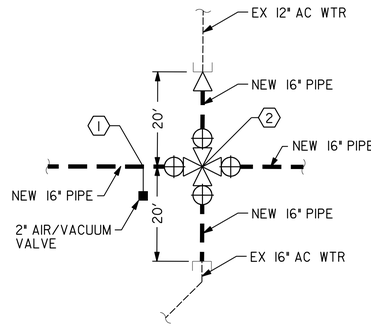
Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
Philip Judson Wasson
No. C43272
06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C27.dgn
18-JUL-2014 15:21 therencia



UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 30" CICL PIPE AND EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES



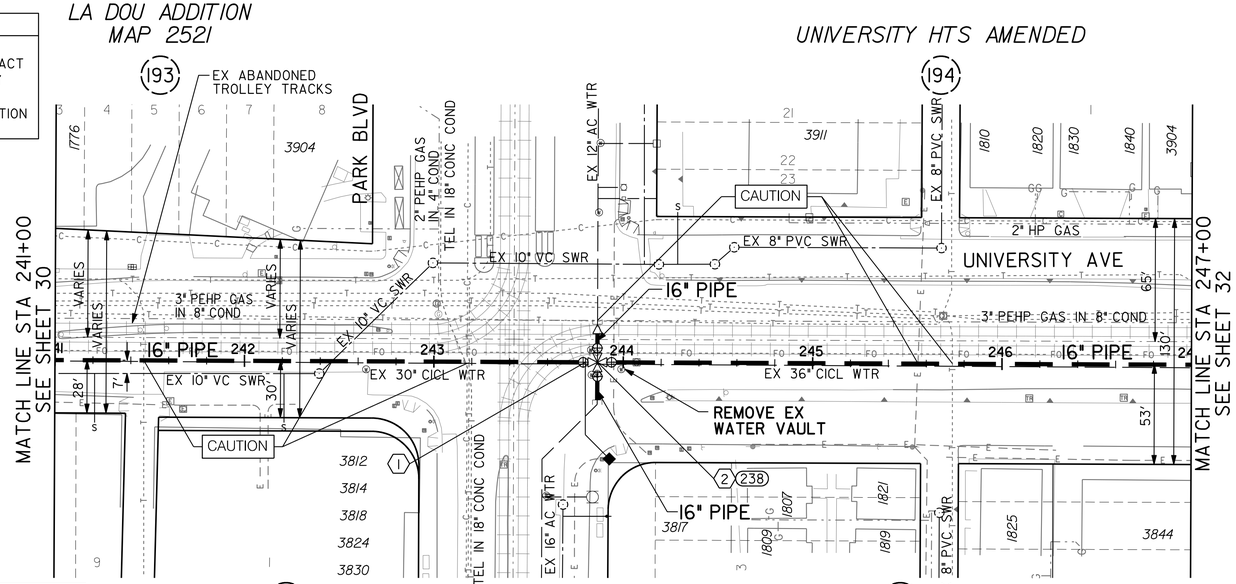
DETAIL A
PARK BLVD. AT UNIVERSITY AVE.
NTS

REFERENCE:
WATER: 13110-2-D, 13110-3-D, 15598-3-D
SEWER: 13482-4-D, 13482-5-D, 30873-13-D, 30873-61-D, 31951-6-D
STORM DRAIN:
GAS: 2-277, 2-277A, 11-331, 11-396, 22-345
ELECTRIC: 212-1722B
CABLE TV:
TELEPHONE: un0401ba, un0401bb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-C5
HGL: 472.32

RETIREMENTS:
30" - 286' CI 1909
36" - 314' CI 1909
12" - 20' AC 1968
16" - 20' AC 1968

UNIVERSITY AVENUE

CAUTION
3" PEHP GAS IN 8" CONDUIT CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED



MAP 14972
THE EGYPTIAN

UNIVERSITY HTS AMENDED

ADJACENT PROJECT:
S00863 GEORGIA STREET BRIDGE IMPROVEMENTS

1 BY CONTRACTOR FURNISH & INSTALL
STA 243+80.33
1- 2" AIR/VACUUM VALVE ASSY, RT

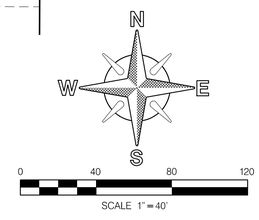
2 (238) BY CONTRACTOR FURNISH & INSTALL
STA 243+86.33
1- 16" CROSS (F)
4 - 16" BFV (F, MJ) BK, AHD, LT, RT
1- 16"x12" RED (MJ) 20' LT
20' - 12" CL305 PIPE, LT
20' - 12" CL305 PIPE, RT
SEE DETAIL A

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JUDSON WARD
No. C43272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

PRESSURE ZONE: ALVARADO 536

C-28

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 241+00 TO STA 247+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 31 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) 6-9-2014 DATE

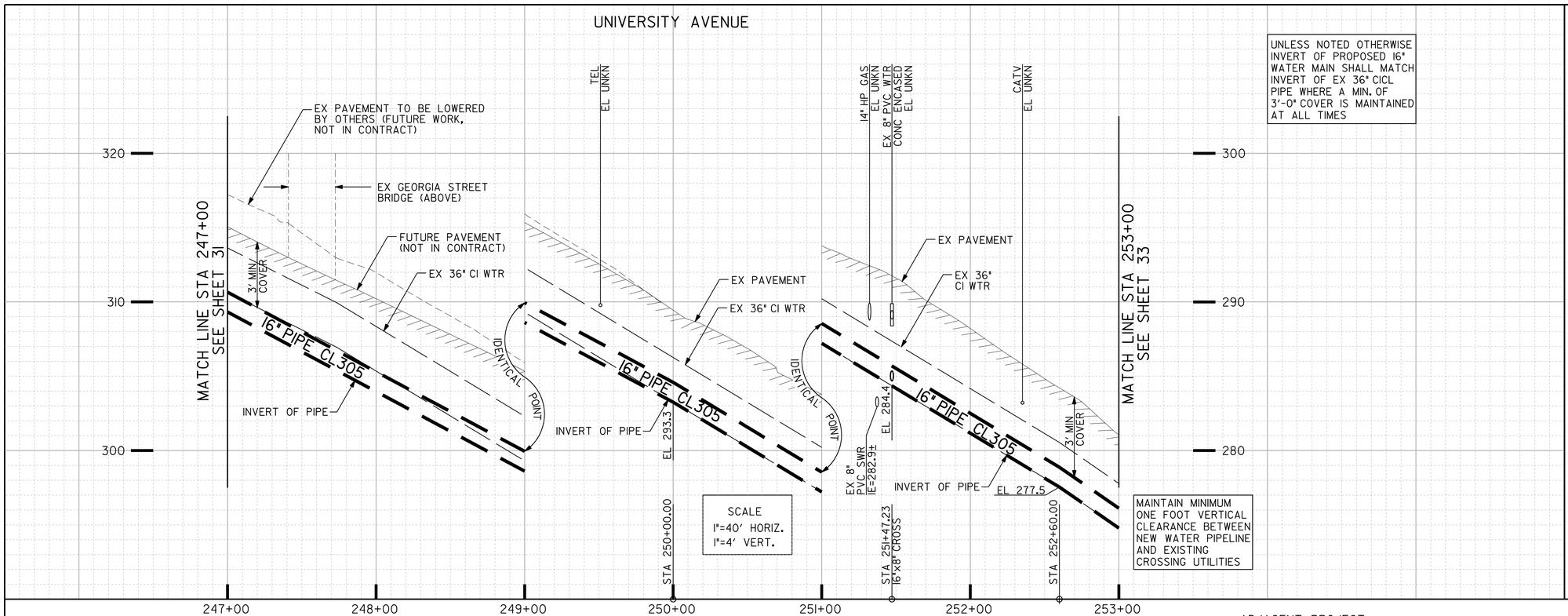
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

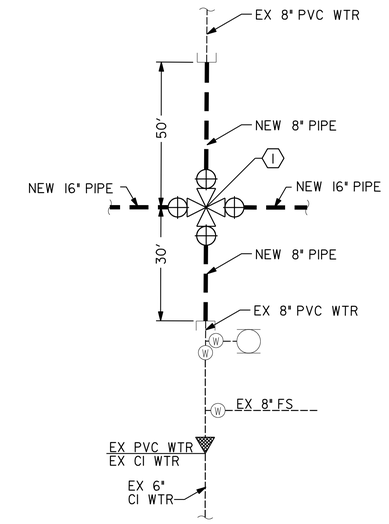
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bagoua PROJECT MANAGER
CHECKED BY Thomas Boehm PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-31-D

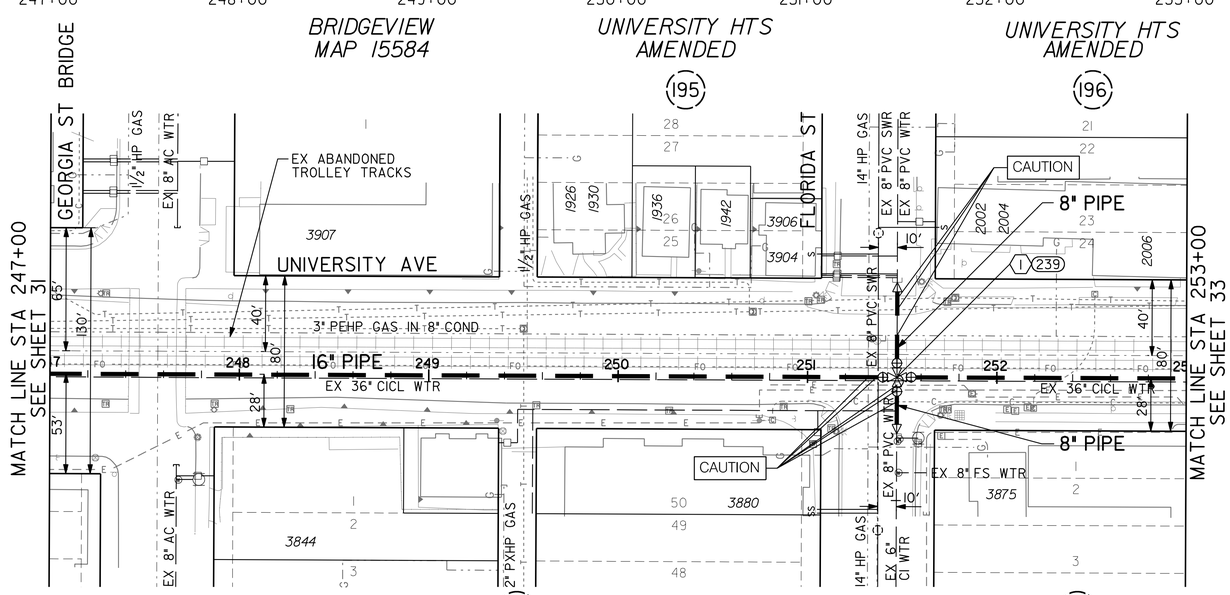
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C28.dgn
18-JUL-2014 15:21 therencia

UNIVERSITY AVENUE





DETAIL A
FLORIDA ST. AT UNIVERSITY AVE.
NTS



ADJACENT PROJECT:
S00915 UNIVERSITY AVENUE MOBILITY

(I) 239
BY CONTRACTOR
FURNISH & INSTALL

STA 251+47.23
1 - 16"x8" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 8" GV (F, MJ) LT, RT
50' - 8" CL305 PIPE, LT
30' - 8" CL305 PIPE, RT
SEE DETAIL A

REFERENCE:
WATER: I4432-2-D, I5598-3-D, 26575-I3-D
SEWER: I2799-2-D, I2799-3-D, 26575-29-D
STORM DRAIN:
GAS: II-332, II-333, II-394, II-395, II-396
ELECTRIC: 2I2-I725A
CABLE TV:
TELEPHONE: un040lbb, un060laa
IMPROVEMENTS:
I00' SCALE/FIELD BOOK: HI9S
THOMAS BROS.: I269-C5
HGL: 473.47

RETIREMENTS:
36" - 600' CICL I909
8" - 80' PVC I995

PRESSURE ZONE: ALVARADO 536

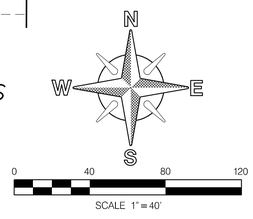
C-29

CAUTION
3" PEHP GAS IN 8" CONDUIT & 14" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JEFFREY JUDSON WARD
No. C43272
06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE

16" WATER PIPELINE B
PLAN AND PROFILE
STA 247+00 TO STA 253+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 32 OF 86 SHEETS

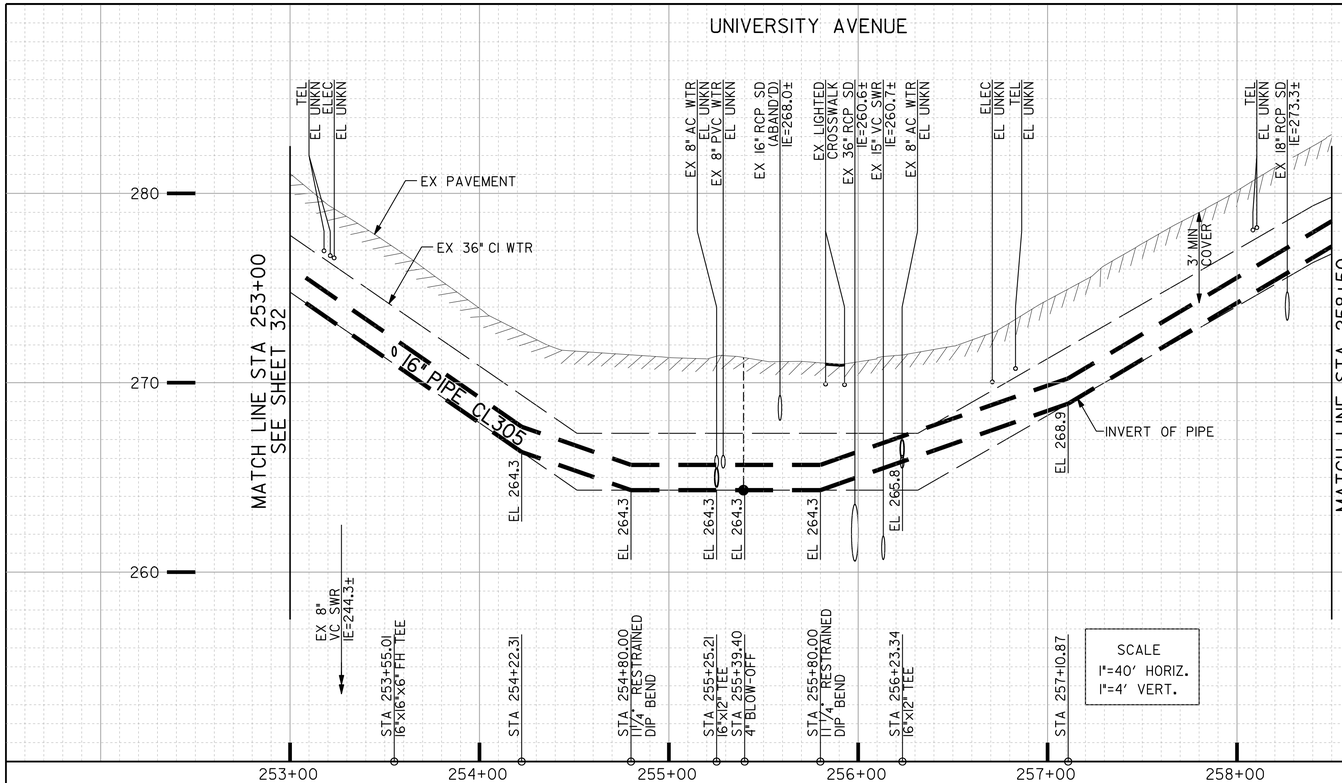
APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

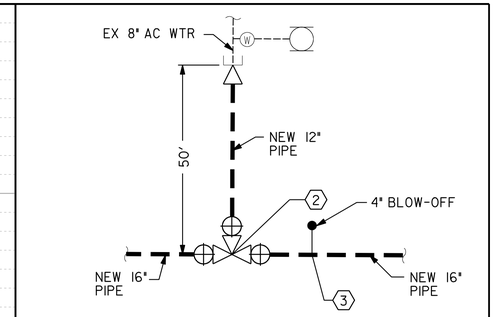
WATER WBS S-11021
SEWER WBS N/A
DEPUTY DIRECTOR: F. Michael Bofenkamp, PROJECT MANAGER
CHECKED BY: Thomas Bailey, PROJECT ENGINEER
210-1725 CCS27 COORDINATE
1850444-6286407 CCS83 COORDINATE
36656-32-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C29.dgn
18-JUL-2014 15:22 therencia

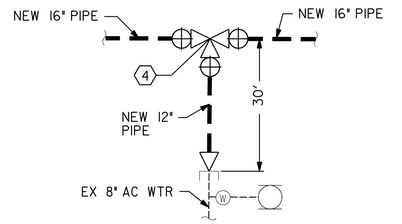


UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



DETAIL A
ALABAMA ST. (NORTH) AT UNIVERSITY AVE.
NTS

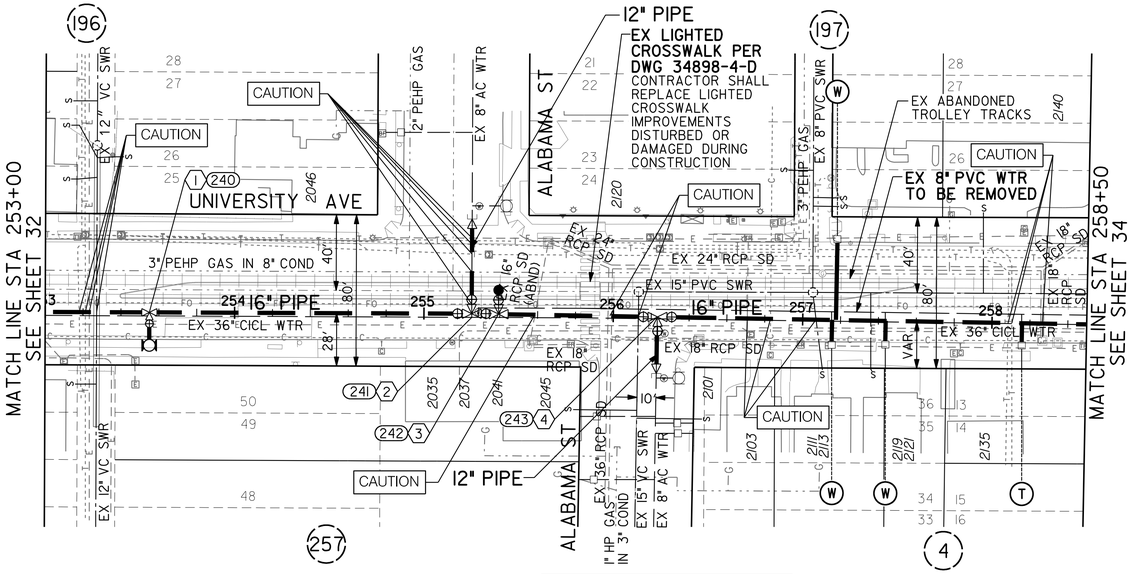


DETAIL B
ALABAMA ST. (SOUTH) AT UNIVERSITY AVE.
NTS

UNIVERSITY AVENUE

UNIVERSITY HTS AMENDED

UNIVERSITY HTS AMENDED



ADJACENT PROJECT:
S00915 UNIVERSITY AVENUE MOBILITY

MAP 65
PAULY'S ADDITION

I 240
BY CONTRACTOR
FURNISH & INSTALL
STA 253+55.01
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

2 241
BY CONTRACTOR
FURNISH & INSTALL
STA 255+25.21
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
1- 12"x8" RED (MJ) 50' LT
50' - 12" CL305 PIPE, LT
SEE DETAIL A

3 242
BY CONTRACTOR
FURNISH & INSTALL
STA 255+39.40
1- 16"x16"x4" TEE (MJ, MJ, F) LT
1- 4" BLOW-OFF ASSY

4 243
BY CONTRACTOR
FURNISH & INSTALL
STA 256+23.34
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) RT
1- 12"x8" RED (MJ) 30' RT
30' - 12" CL305 PIPE, RT
SEE DETAIL B

REFERENCE:
WATER: 14548-L, 14432-6-D, 14432-8-D, 15598-2-D, 26328-17-D, 26328-18-D, 26575-14-D
SEWER: 14432-5-D, 17484-2-D, 17484-3-D, 17484-5-D
STORM DRAIN: 2774-1-L, 11953-1-D
GAS: 11-333, 11-334, 11-337, 11-338, 11-392, 11-393, 11-394
ELECTRIC: 212-1725A, 212-1725B
CABLE TV:
TELEPHONE: un060lab, un060lba
IMPROVEMENTS:
100' SCALE/FIELD BOOK: HI9S
THOMAS BROS.: 1269-C5, 1269-D5
HGL: 475.38

RETIREMENTS:
36" - 550' CI 1909
8" - 50' AC 1972
8" - 29' AC 1972
8" - 326' PVC 1993
¾" SERVICE - 2
UNKN SERVICE - 2

PRESSURE ZONE: ALVARADO 536

C-30

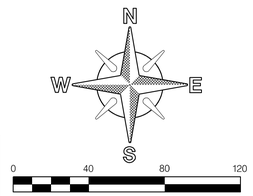
CAUTION
3" PEHP GAS IN 8" CONDUIT! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
RICHARD JUDSON WARD
No. C43272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 253+00 TO STA 258+50

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 33 OF 86 SHEETS

WATER WBS	S-11021
SEWER WBS	N/A

APPROVED: _____ 6-9-2014 DATE
FOR CITY ENGINEER
IRAJ ASCHARZADEH
PRINT NAME

DEPUTY DIRECTOR
F. Michael Bofo...
PROJECT MANAGER

DESIGNED BY
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1725
CCS27 COORDINATE

1850444-6286407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-33-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C30.dgn
18-JUL-2014 15:22 therencia

UNIVERSITY AVENUE

UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

MATCH LINE STA 258+50 SEE SHEET 33

MATCH LINE STA 265+00 SEE SHEET 35

EX 8" AC WTR EL UNKN
EX 8" CI WTR EL UNKN
CATV EL UNKN
ELEC EL UNKN
TEL EL UNKN
1" GAS EL UNKN
½" GAS EL UNKN
½" COND EL UNKN

EX PAVEMENT
EX 36" CI WTR
3' MIN COVER
16" PIPE CL305
IDENTICAL POINT
EL 297.4
INVERT OF PIPE

STA 258+00.00 EL 277.2
EL 279.8
STA 259+05.40 16"x12" TEE
EL 281.8
STA 259+48.92 16"x12" TEE
STA 261+40.01 16"x16"x8" FH TEE
STA 262+30.00 2" AIR/VACUUM VALVE
STA 262+84.08 16"x12" CROSS

SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES

259+00 260+00 261+00 262+00 263+00 264+00 265+00

300 290 280 320 310 300

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

UNIVERSITY HTS AMENDED (198)

UNIVERSITY HTS AMENDED (199)

EX 8" PVC WTR TO BE REMOVED

MISSISSIPPI ST

LOUISIANA ST

UNIVERSITY AVE

12" PIPE

CAUTION

EX 8" PVC WTR TO BE REMOVED

EX ABANDONED TROLLEY TRACKS

EX 15" PVC SWR

EX 8" PVC SWR

EX 36" CICL WTR

3" PEHP GAS IN 8" COND

16" PIPE

EX WATER VALVE VAULT TO BE REMOVED

REMOVE EX ABANDONED WATER METER

ADJACENT PROJECT: S00915 UNIVERSITY AVENUE MOBILITY

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CAUTION
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

(3) MAP 65 PAULY'S ADDITION

(2) MAP 65 PAULY'S ADDITION

(1)(244) BY CONTRACTOR FURNISH & INSTALL
STA 259+05.40
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
1 - 12"x8" RED (MJ) 55' LT
55' - 12" CL305 PIPE, LT
SEE DETAIL A

(2)(245) BY CONTRACTOR FURNISH & INSTALL
STA 259+48.92
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) RT
1 - 12"x8" RED (MJ) 45' RT
45' - 12" CL305 PIPE, RT
SEE DETAIL A

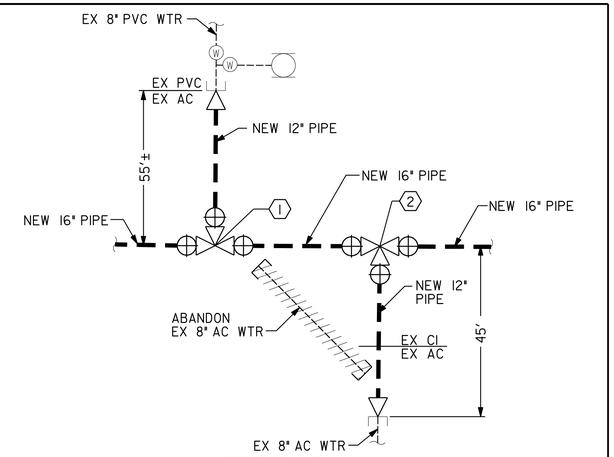
(3)(246) BY CONTRACTOR FURNISH & INSTALL
STA 261+40.01
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

(4) BY CONTRACTOR FURNISH & INSTALL
STA 262+30.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

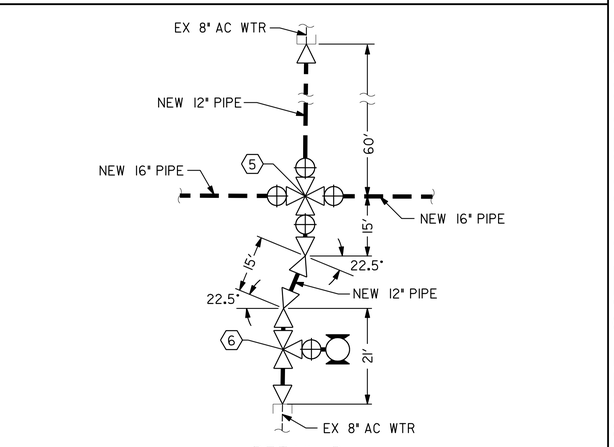
(5)(247) BY CONTRACTOR FURNISH & INSTALL
STA 262+84.08
1 - 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
2 - 12" 22½° BEND (MJ) 15' & 29.7' RT
2 - 12"x8" RED (MJ) 60' LT & 50' RT
51' - 12" CL305 PIPE, RT
SEE DETAIL B

(6) BY CONTRACTOR FURNISH & INSTALL
STA 262+84.08 (35.29' RT)
1 - 16"x16"x6" TEE (MJ, MJ, F) LT
1 - 6", 3-PORT FH ASSY & MARKER
(REMOVE ENTIRE EX FH ASSY)

SCALE 1"=40'



DETAIL A
MISSISSIPPI ST. AT UNIVERSITY AVE.
NTS



DETAIL B
LOUISIANA ST. AT UNIVERSITY AVE.
NTS

REFERENCE:
WATER: 13321-7-D, 14432-9-D, 14432-10-D, 15598-2-D, 26328-12-D, 26328-18-D, 26328-19-D
SEWER: 13885-9-D, 14561-2-D, 14561-3-D, 17484-7-D
STORM DRAIN: 5553-L
GAS: 11-338, 11-390, 11-391
ELECTRIC: 212-1725B
CABLE TV:
TELEPHONE: un0601aa, un0601bb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: 1195
THOMAS BROS.: 1269-D5
HGL: 476.71

RETIREMENTS:
36" - 650' CI 1909
FH (6-PORT) - 1
8" - 120' AC 1959
8" - 35' CI 1914
8" - 60' AC 1972
8" - 51' AC 1972
8" - 650' PVC 1993
¾" SERVICE - 2
UNKN SERVICE - 5

PRESSURE ZONE: ALVARADO 536

C-31

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 258+50 TO STA 265+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 34 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DESIGNED BY: F. Michael Bafoua, PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

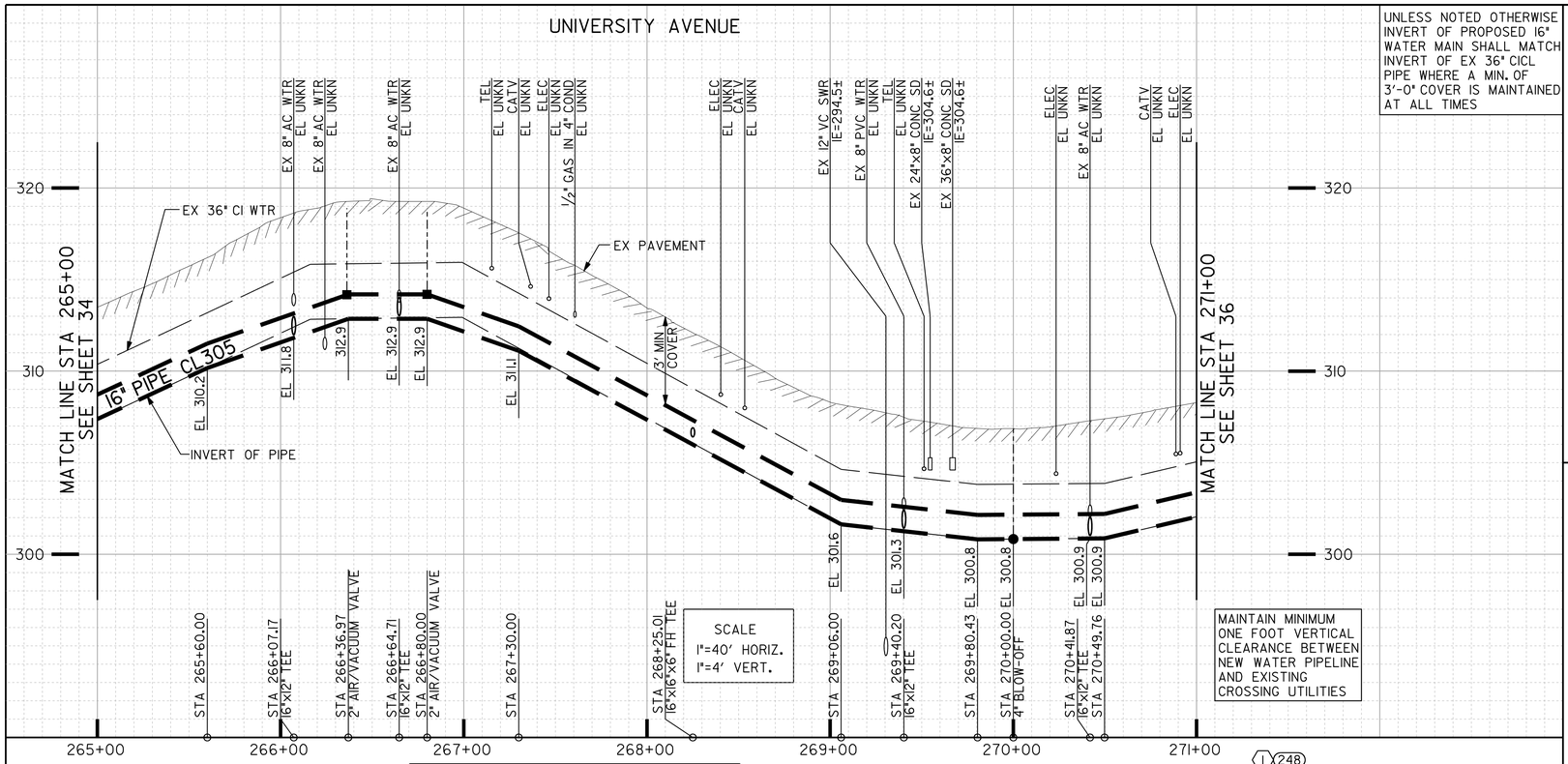
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1725 CCS27 COORDINATE
1850444-6286407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-34-D

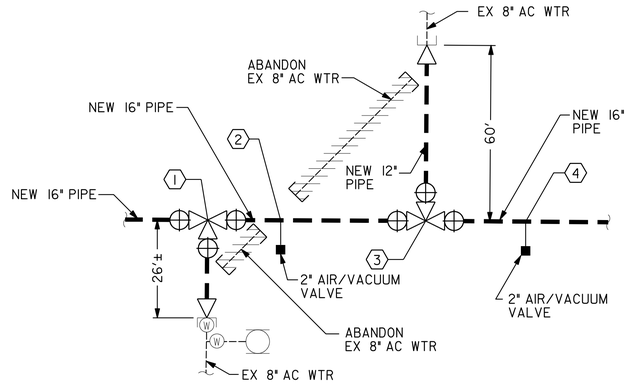
Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — Richard Judson Walker — No. 43272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA
06/09/2014

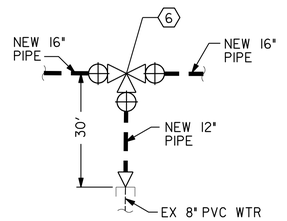
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C31.dgn
18-JUL-2014 15:22 therencia



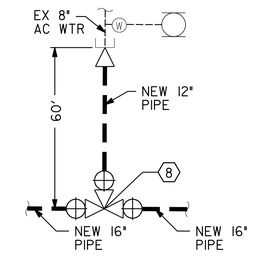
UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES



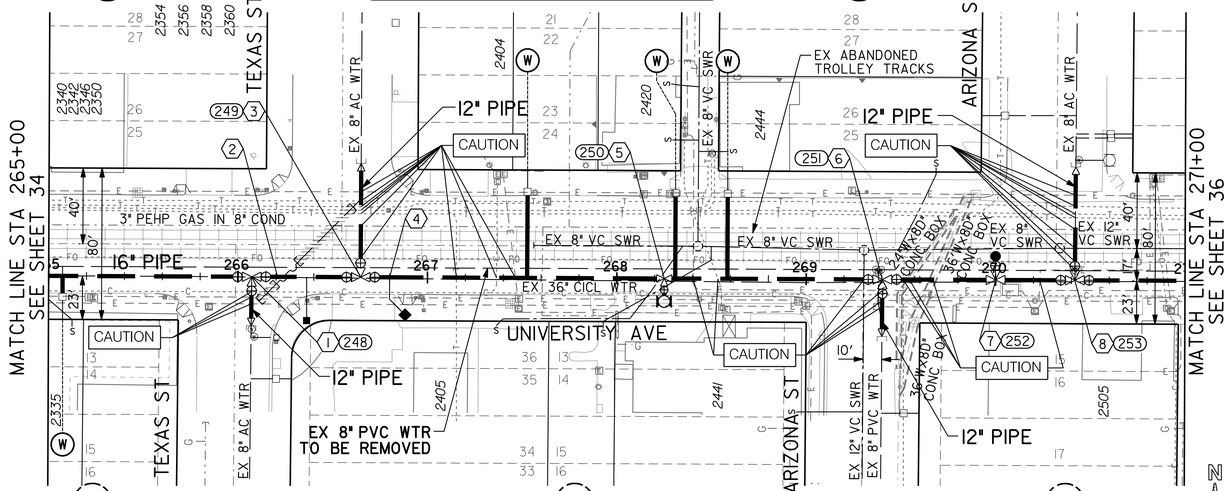
DETAIL A
TEXAS ST. (SOUTH AND NORTH) AT UNIVERSITY AVE.
NTS



DETAIL B
ARIZONA ST. (SOUTH) AT UNIVERSITY AVE.
NTS



DETAIL C
ARIZONA ST. (NORTH) AT UNIVERSITY AVE.
NTS



1 (248)
BY CONTRACTOR
FURNISH & INSTALL
STA 266+07.17
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) RT
1 - 12"x8" RED (MJ) 26' RT
26' - 12" CL305 PIPE, RT
SEE DETAIL A

2
BY CONTRACTOR
FURNISH & INSTALL
STA 266+36.97
1 - 2" AIR/VACUUM VALVE ASSY, RT

3 (249)
BY CONTRACTOR
FURNISH & INSTALL
STA 266+64.71
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
1 - 12"x8" RED (MJ) 60' LT
60' - 12" CL305 PIPE, LT
SEE DETAIL A

4
BY CONTRACTOR
FURNISH & INSTALL
STA 266+80.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

5 (250)
BY CONTRACTOR
FURNISH & INSTALL
STA 268+25.01
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

6 (251)
BY CONTRACTOR
FURNISH & INSTALL
STA 269+40.20
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) RT
1 - 12"x8" RED (MJ) 30' RT
30' - 12" CL305 PIPE, RT
SEE DETAIL B

7 (252)
BY CONTRACTOR
FURNISH & INSTALL
STA 270+00.00
1 - 16"x16"x4" TEE (MJ, MJ, F) LT
1 - 4" BLOW-OFF ASSY

8 (253)
BY CONTRACTOR
FURNISH & INSTALL
STA 270+41.87
1 - 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 12" GV (F, MJ) LT
1 - 12"x8" RED (MJ) 60' LT
60' 12" CL305 PIPE, LT
SEE DETAIL C

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CAUTION
3" PEHP GAS IN 8" CONDUIT
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

REFERENCE:
WATER: 13321-7-D, 14432-9-D, 14432-10-D, 15598-2-D, 26328-12-D, 26328-18-D, 26328-19-D
SEWER: 13885-9-D, 14561-2-D, 14561-3-D, 17484-7-D
STORM DRAIN: 5553-L
GAS: 11-338, 11-390, 11-391
ELECTRIC: 212-1725B
CABLE TV:
TELEPHONE: un0601aa, un0601bb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: HI9S
THOMAS BROS.: 1269-D5
HGL: 478.50

RETIREMENTS:
36" - 600' CI 1909
8" - 600' PVC 1993
8" - 125' AC 1972
8" - 35' PVC 1993
8" - 60' PVC 1969
¾" SERVICE - 3
1" SERVICE - 1

PRESSURE ZONE: ALVARADO 536

C-32

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 265+00 TO STA 271+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 35 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — 6-9-2014 DATE

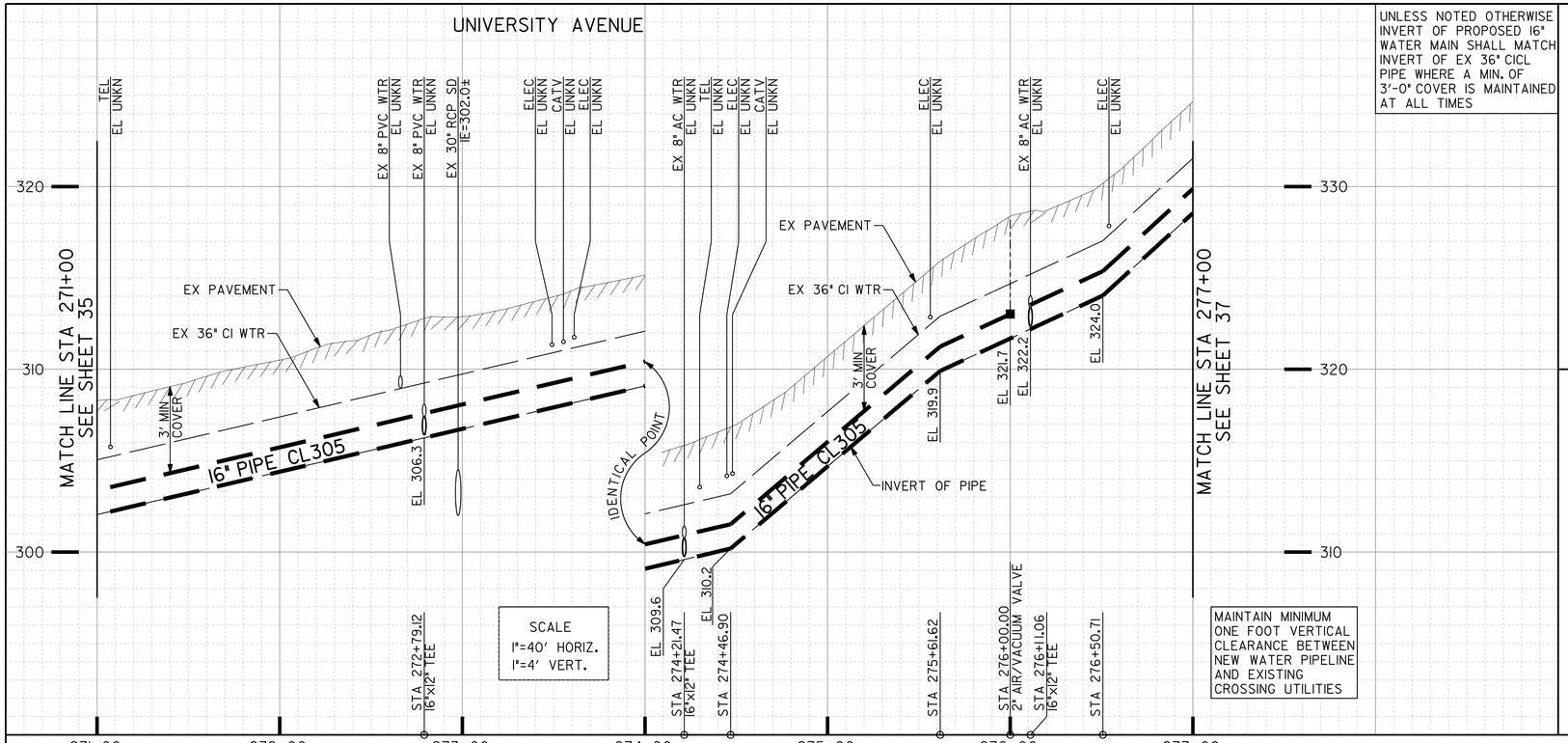
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

WATER WBS S-11021
SEWER WBS N/A
DESIGNED F. Michael Bafoua, PROJECT MANAGER
CHECKED Thomas Rolen, PROJECT ENGINEER
210-1725 CCS27 COORDINATE
1850444-6286407 CCS83 COORDINATE
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____
36656-35-D

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WILLIAMS — No. CA5272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA
06/09/2014

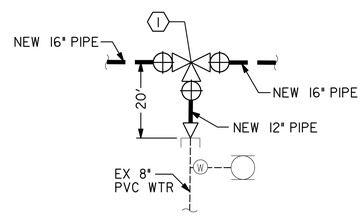
UNIVERSITY AVENUE



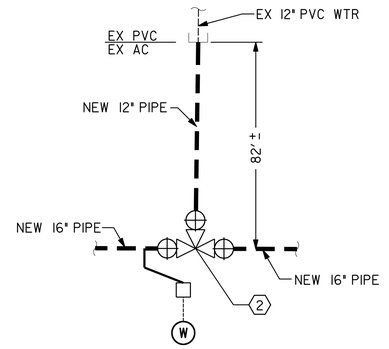
SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES

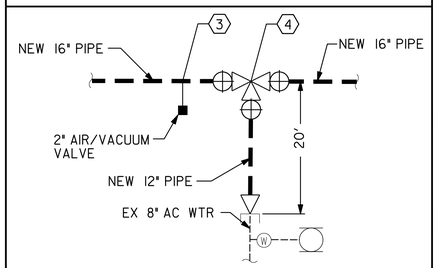
UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES



DETAIL A
ARNOLD AVE. AT UNIVERSITY AVE.
NTS



DETAIL B
HAMILTON ST. AT UNIVERSITY AVE.
NTS



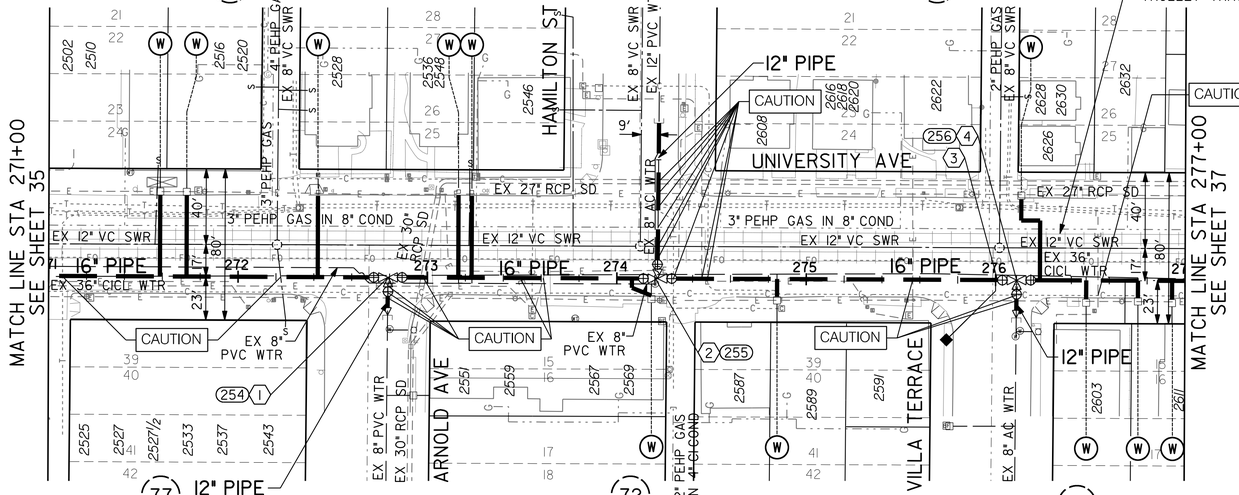
DETAIL C
VILLA TERRACE AT UNIVERSITY AVE.
NTS

REFERENCE:
WATER: 8049-1-W, 15598-2-D, 16842-5-D, 21842-12-D, 26328-19-D
SEWER: 14561-2-D, 14561-6-D, 14561-8-D, 14561-10-D
STORM DRAIN: 14055-4-D, 14055-5-D
GAS: 11-342, 11-346, 11-387, 11-388, 11-389
ELECTRIC: 212-1725B
CABLE TV:
TELEPHONE: un080laa, un080lab
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H19S
THOMAS BROS.: 1269-D5
HGL: 479.76

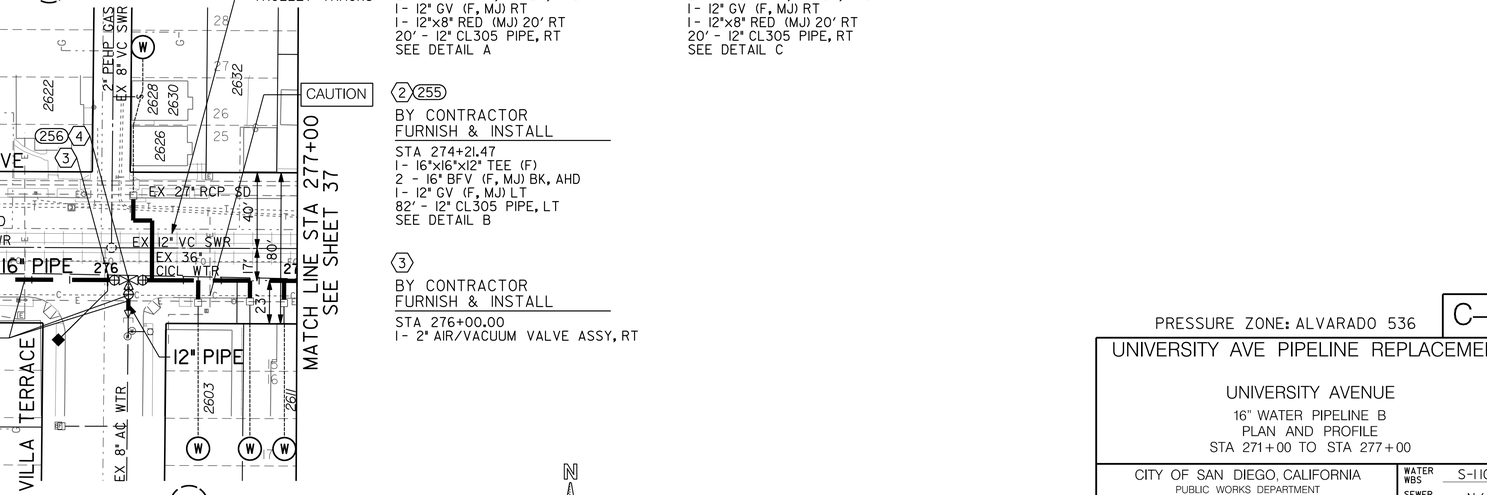
RETIREMENTS:
36" - 600' CI 1909
8" - 397' PVC 1993
8" - 20' PVC 1993
8" - 20' AC 1959
¾" SERVICE - 5
1½" SERVICE - 1
UNKN SERVICE - 5

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

UNIVERSITY HTS AMENDED



UNIVERSITY HTS AMENDED



ADJACENT PROJECT:
S00915 UNIVERSITY AVENUE MOBILITY

1 254
BY CONTRACTOR
FURNISH & INSTALL
STA 272+79.12
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) RT
1- 12"x8" RED (MJ) 20' RT
20' - 12" CL305 PIPE, RT
SEE DETAIL A

2 255
BY CONTRACTOR
FURNISH & INSTALL
STA 274+21.47
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) LT
82' - 12" CL305 PIPE, LT
SEE DETAIL B

3
BY CONTRACTOR
FURNISH & INSTALL
STA 276+00.00
1- 2" AIR/VACUUM VALVE ASSY, RT

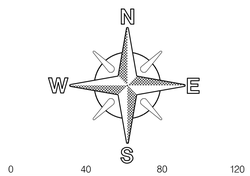
4 256
BY CONTRACTOR
FURNISH & INSTALL
STA 276+11.06
1- 16"x16"x12" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1- 12" GV (F, MJ) RT
1- 12"x8" RED (MJ) 20' RT
20' - 12" CL305 PIPE, RT
SEE DETAIL C

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

CAUTION
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.



Brown AND Caldwell

06/09/2014

PRESSURE ZONE: ALVARADO 536

C-33

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
16" WATER PIPELINE B
PLAN AND PROFILE
STA 271+00 TO STA 277+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 36 OF 86 SHEETS

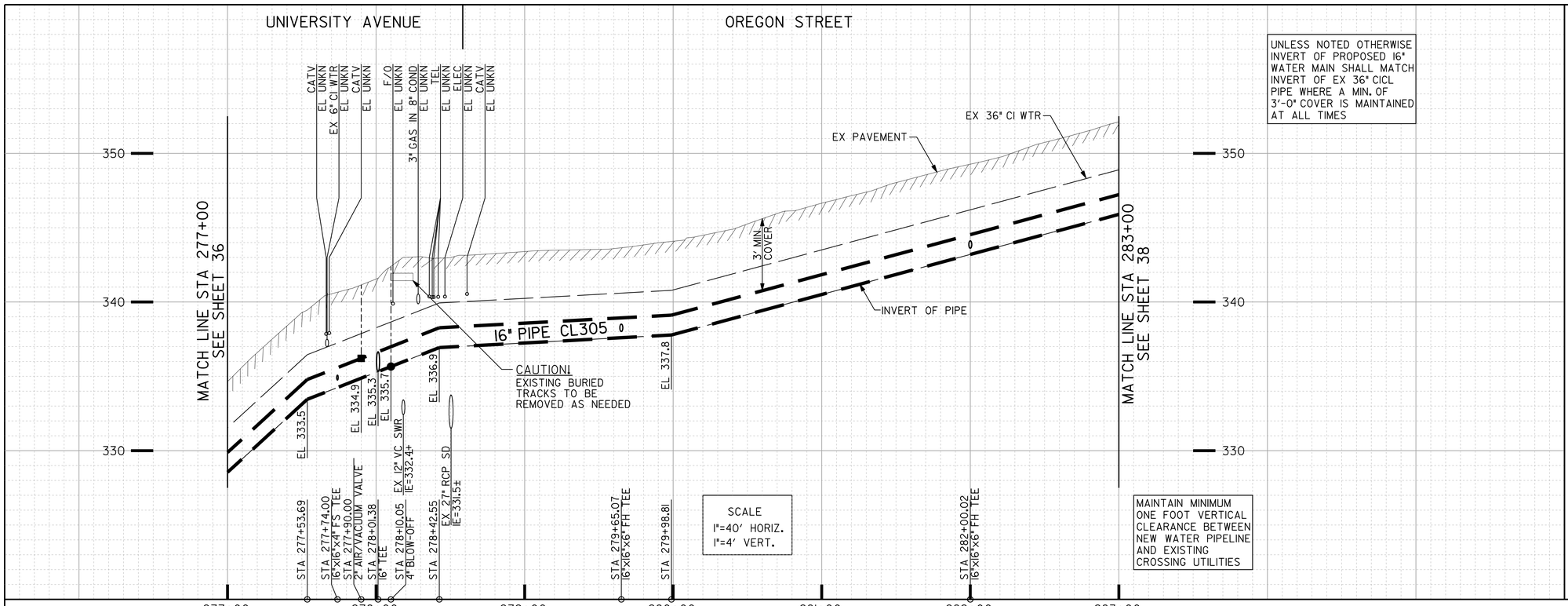
APPROVED: FOR CITY ENGINEER — IRAJ ASGHARZADEH, PRINT NAME — 6-9-2014, DATE

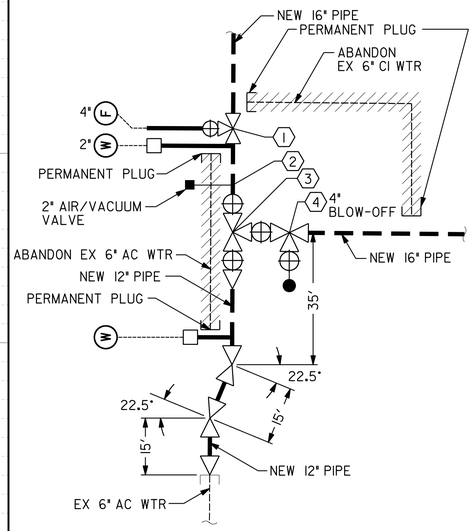
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bagowa, PROJECT MANAGER
CHECKED BY Francisco Rodriguez, PROJECT ENGINEER
210-1725 CCS27 COORDINATE
1850444-6286407 CCS83 COORDINATE
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____
36656-36-D

UNIVERSITY AVENUE

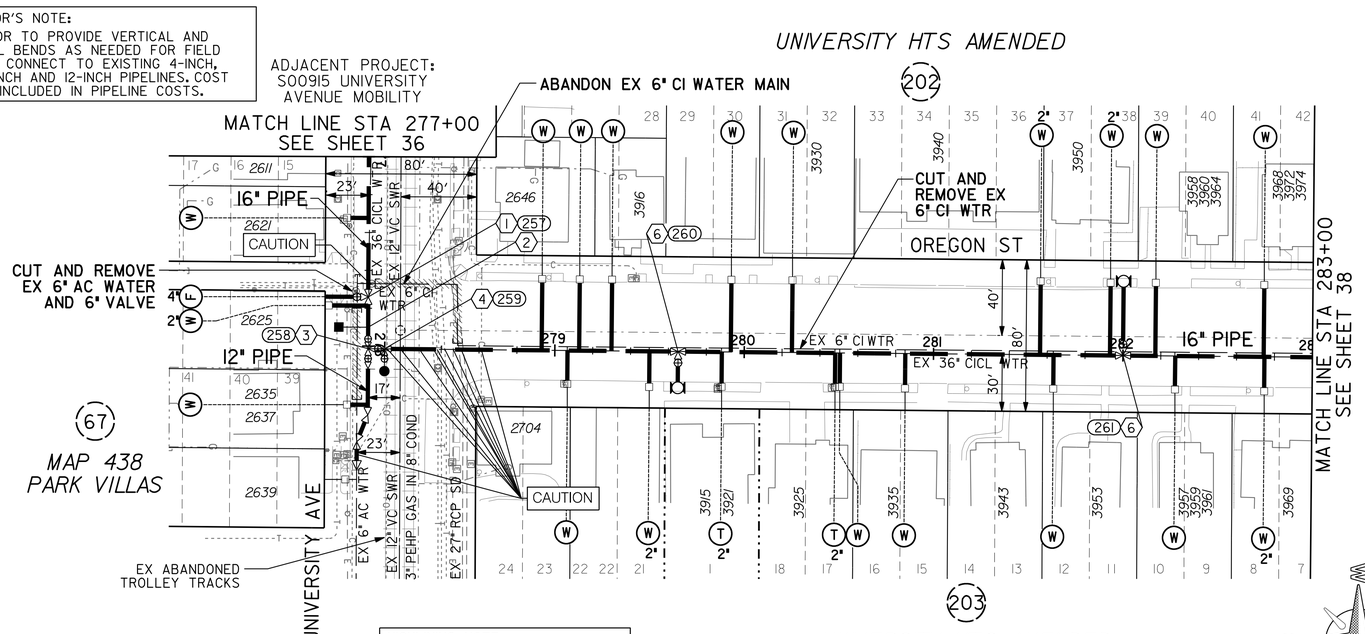
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C33.dgn
18-JUL-2014 15:25 therencia





DETAIL A
UNIVERSITY AVE. AT OREGON ST.
NTS

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

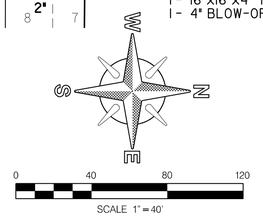


HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

ABANDONED BURIED TROLLEY TRACKS:
IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

CAUTION
3" PEHP GAS IN 8" CONDUIT!
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED



(1)(257)
BY CONTRACTOR
FURNISH & INSTALL
STA 277+74.00
1 - 16"x16"x4" TEE (MJ, MJ, F) RT
1 - 4" FIRE SERVICE CONNECTION & ASSY

(2)
BY CONTRACTOR
FURNISH & INSTALL
STA 277+90.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

(3)(258)
BY CONTRACTOR
FURNISH & INSTALL
STA 278+01.38
1 - 16" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 16" BFV (F) RT
1 - 16"x12" RED (F, MJ) RT
2 - 12" 22½° BEND (MJ) 35' & 50.26' RT
1 - 12"x6" RED (MJ) 65' RT
65' - 12" CL305 PIPE, RT
SEE DETAIL A

(4)(259)
BY CONTRACTOR
FURNISH & INSTALL
STA 278+10.05
1 - 16"x16"x4" TEE (MJ, MJ, F) RT
1 - 4" BLOW-OFF ASSY

(5)(260)
BY CONTRACTOR
FURNISH & INSTALL
STA 279+65.07
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER

(6)(261)
BY CONTRACTOR
FURNISH & INSTALL
STA 282+00.02
1 - 16"x16"x6" TEE (MJ, MJ, F) LT
1 - 6", 3-PORT FH ASSY & MARKER

NOTE:
CONFLICT EXISTS BETWEEN RECORD DRAWINGS WITH REGARDS TO ACTUAL LOCATION OF EX 6" CI WATER. DISTANCE FROM EX 36" CICL WATER RANGES BETWEEN 2' AND 4'.

REFERENCE:
WATER: 6167-4-W, 15598-2-D, 16842-5-D
SEWER: 14561-2-D
STORM DRAIN: 14055-4-D, 14055-5-D
GAS: 11-346, 11-387, 11-405
ELECTRIC: 212-1728C
CABLE TV:
TELEPHONE: un0802cb
IMPROVEMENTS:
100' SCALE/FIELD BOOK: HI9S
THOMAS BROS.: 1269-D5
HGL: 481.22

RETIREMENTS:
36" - 600' CI 1909
4" FIRE SERVICE - 1
6" - 103' AC 1954
6" - 536' CI 1978
¾" SERVICE - 5
1" SERVICE - 2
2" SERVICE - 7
UNKN SERVICES - 7

PRESSURE ZONE: ALVARADO 536

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
RAJ J. JUDSON WASHINGTON
No. C43272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

C-34

UNIVERSITY AVENUE PIPELINE REPLACEMENT

UNIVERSITY AVENUE /OREGON STREET

16" WATER PIPELINE B
PLAN AND PROFILE
STA 277+00 TO STA 283+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 37 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 DATE

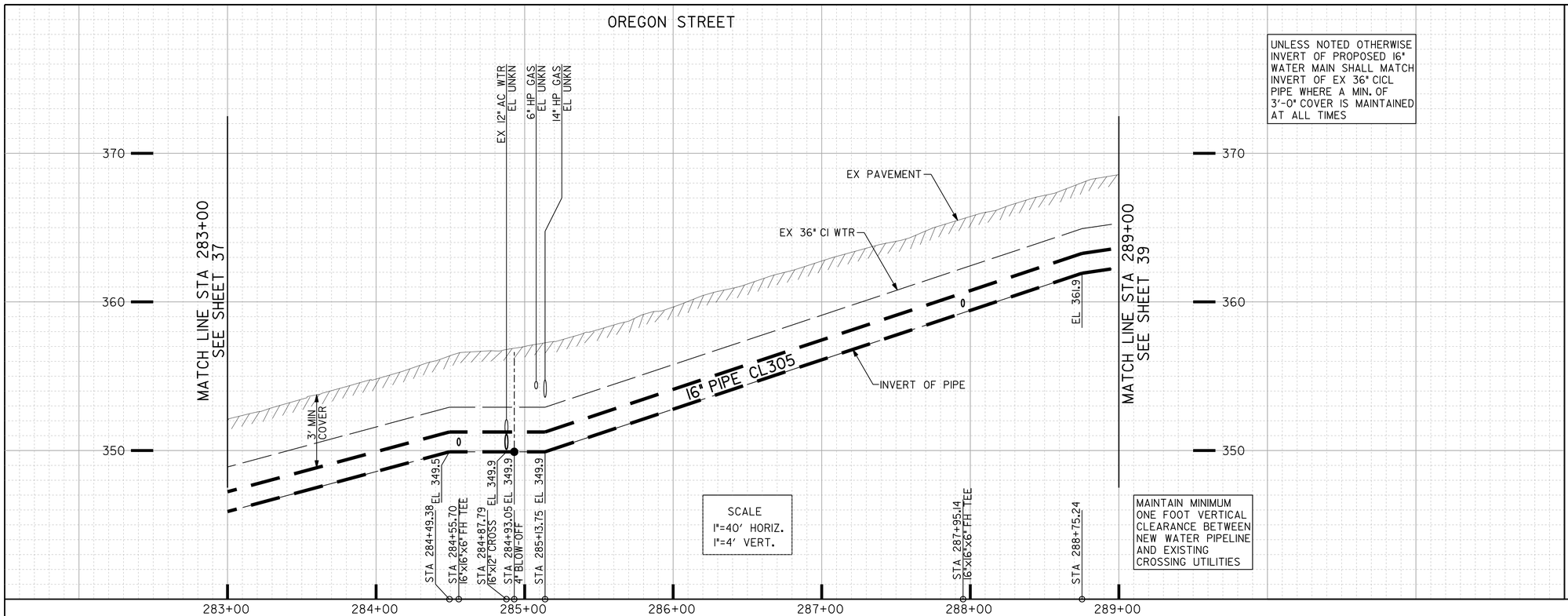
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafous PROJECT MANAGER
CHECKED BY Francine Banks PROJECT ENGINEER
210-1725 CCS27 COORDINATE
1850444-6286407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-37-D

UNIVERSITY AVENUE /OREGON STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C34.dgn
18-JUL-2014 15:26 therencia

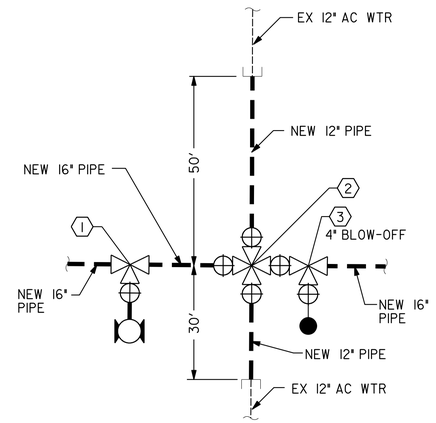
OREGON STREET



UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

SCALE
1"=40' HORIZ.
1"=4' VERT.

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



NOTE:
CONFLICT EXISTS BETWEEN RECORD DRAWINGS WITH REGARDS TO ACTUAL LOCATION OF EX 6" CI WTR. DISTANCE FROM EX 36" CICL WTR RANGES BETWEEN 2' AND 4'.

DETAIL A
LINCOLN AVE. AT OREGON ST.
NTS

CAUTION

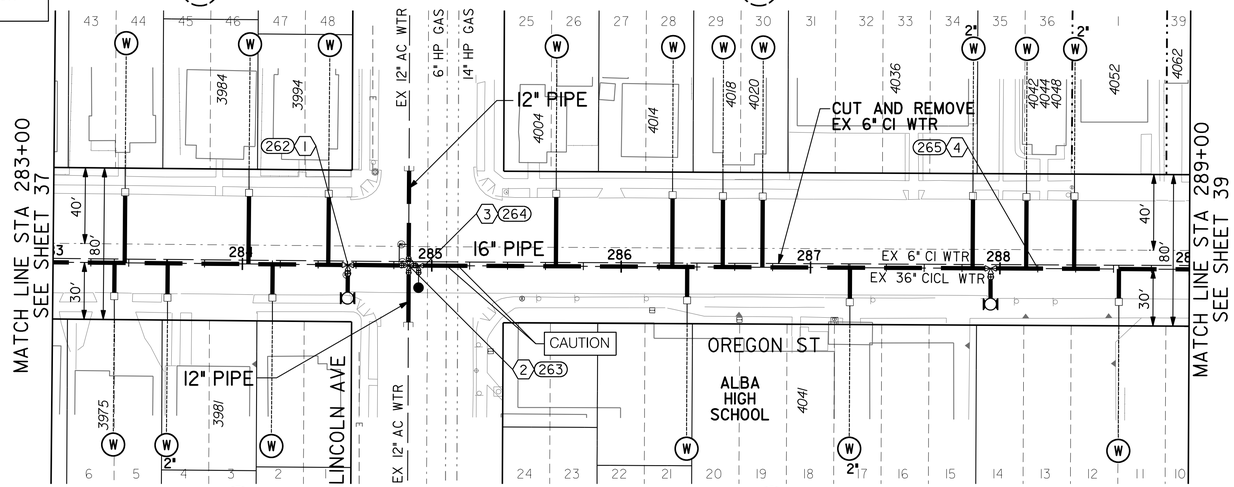
6" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION
SDG&E STANDBY REQUIRED

UNIVERSITY HTS AMENDED (202)

ADJACENT PROJECT:
FY14 ASPHALT
JOC GROUP 3

UNIVERSITY HTS AMENDED (169)

NEU OREGON CONDO MAP 10321



UNIVERSITY HTS AMENDED (203)

UNIVERSITY HTS AMENDED (168)

1 262
BY CONTRACTOR
FURNISH & INSTALL
STA 284+55.70
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)

2 263
BY CONTRACTOR
FURNISH & INSTALL
STA 284+87.79
1- 16"x12" CROSS (F)
2 - 16" BFV (F, MJ) BK, AHD
2 - 12" GV (F, MJ) LT, RT
50' - 12" CL305 PIPE, LT
30' - 12" CL305 PIPE, RT
SEE DETAIL A

3 264
BY CONTRACTOR
FURNISH & INSTALL
STA 284+93.05
1- 16"x16"x4" TEE (MJ, MJ, F) RT
1- 4" BLOW-OFF ASSY

4 265
BY CONTRACTOR
FURNISH & INSTALL
STA 287+95.14
1- 16"x16"x6" TEE (MJ, MJ, F) RT
1- 6", 3-PORT FH ASSY & MARKER

REFERENCE:
WATER: 5615-W, 5532-W, 6907-W, 6167-04-W, 7307-W, 12120-2-D, 15598-2-D, 16842-5-D
SEWER:
STORM DRAIN:
GAS: 11-424
ELECTRIC: 214-1728A
CABLE TV:
TELEPHONE: un0802dd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: HI8S
THOMAS BROS.: 1269-D5
HGL: 483.90

RETIREMENTS:
36" - 600' CI 1909
6" - 615' CI 1978
FH (4-PORT) - 1
12" - 50' AC 1954
12" - 30' AC 1954
¾" SERVICE - 6
1" SERVICE - 1
2" SERVICE - 4
UNKN SERVICE - 5

NOTE:
CONFLICT EXISTS BETWEEN RECORD DRAWINGS WITH REGARDS TO ACTUAL LOCATION OF EX 6" CI WATER. DISTANCE FROM EX 36" CICL WATER RANGES BETWEEN 2' AND 4'.

PRESSURE ZONE: ALVARADO 536

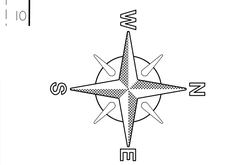
C-35

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

CONTRACTOR'S NOTE:
COORDINATE CONSTRUCTION WITH ALBA HIGH SCHOOL
MOBILIZATION SHALL OCCUR THIRTY (30) MINUTES AFTER CLASSES START
DEMOBILIZATION SHALL OCCUR THIRTY (30) MINUTES BEFORE CLASSES END
SCHOOL BEGINS: 7:30 AM
SCHOOL ENDS: 2:40 PM



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
HENRY JUDSON WARREN
No. C43272
06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

OREGON STREET
16" WATER PIPELINE B
PLAN AND PROFILE
STA 283+00 TO STA 289+00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 38 OF 86 SHEETS

WATER WBS	S-11021
SEWER WBS	N/A

APPROVED: FOR CITY ENGINEER — 6-9-2014 DATE
IRAJ ASCHARZADEH PRINT NAME

DESIGNED BY: F. Michael Bafouna PROJECT MANAGER
CHECKED BY: Thomas Rolla PROJECT ENGINEER

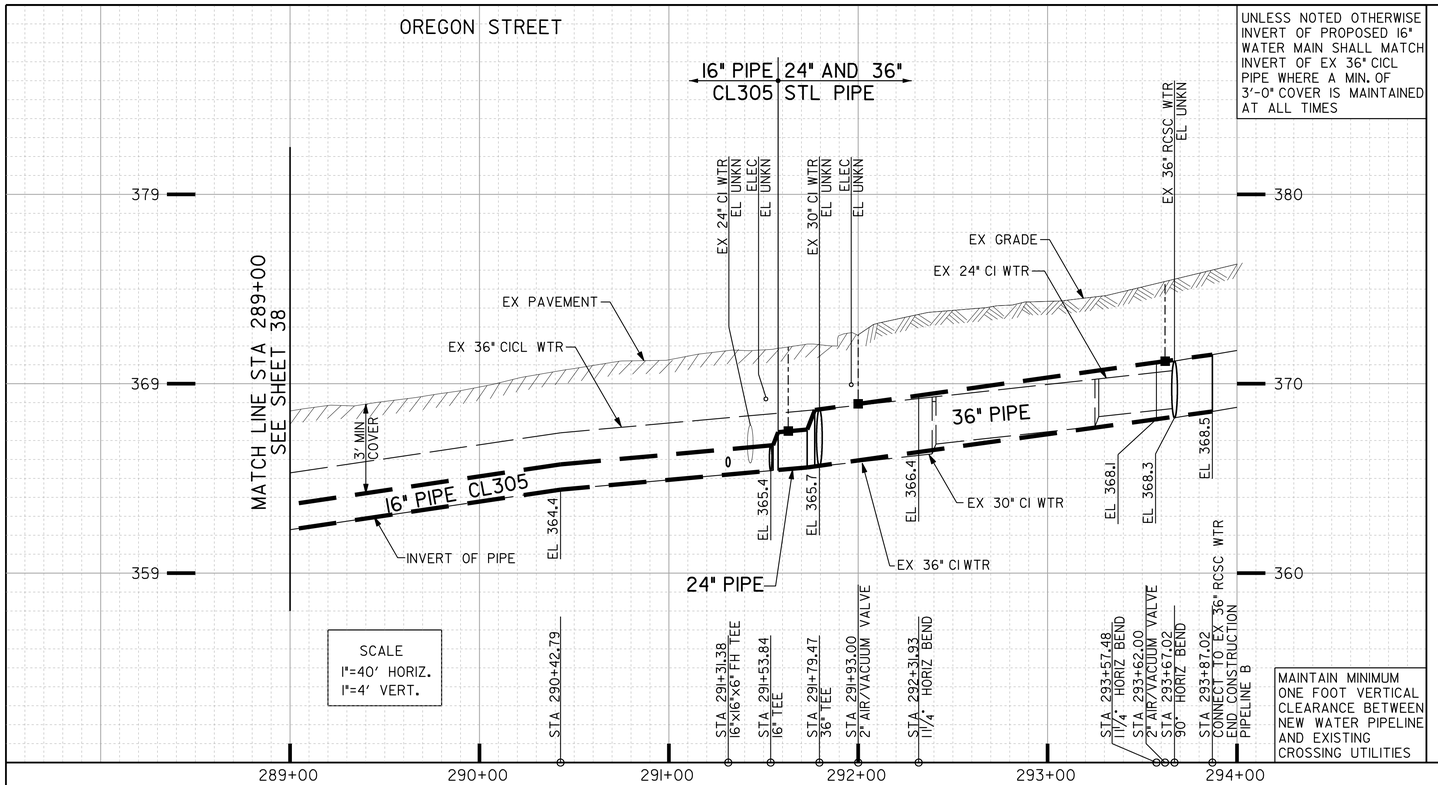
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

214-1725 CCS27 COORDINATE
1854444-6286407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

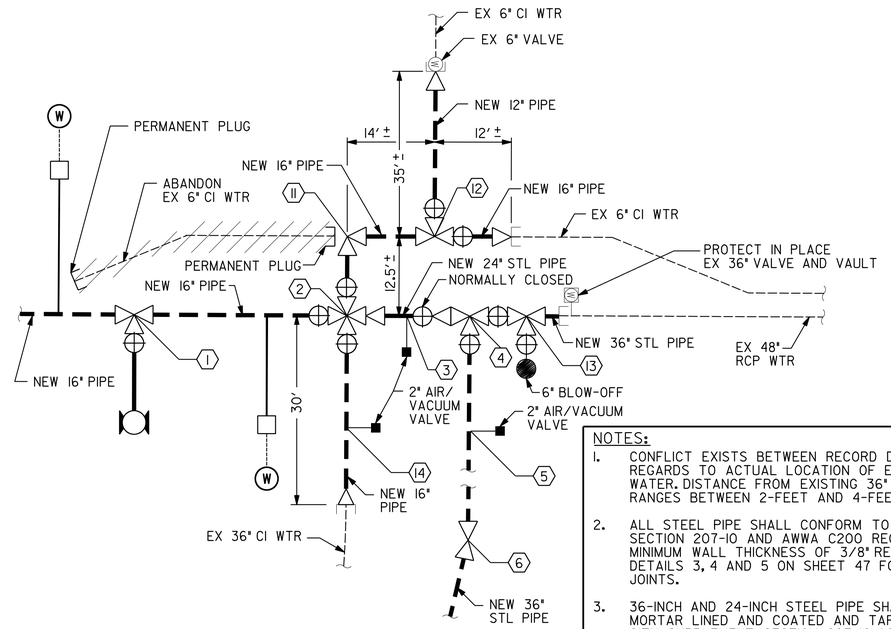
36656-38-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C35.dgn
18-JUL-2014 15:26 therencia



UNLESS NOTED OTHERWISE INVERT OF PROPOSED 16" WATER MAIN SHALL MATCH INVERT OF EX 36" CICL PIPE WHERE A MIN. OF 3'-0" COVER IS MAINTAINED AT ALL TIMES

MAINTAIN MINIMUM ONE FOOT VERTICAL CLEARANCE BETWEEN NEW WATER PIPELINE AND EXISTING CROSSING UTILITIES



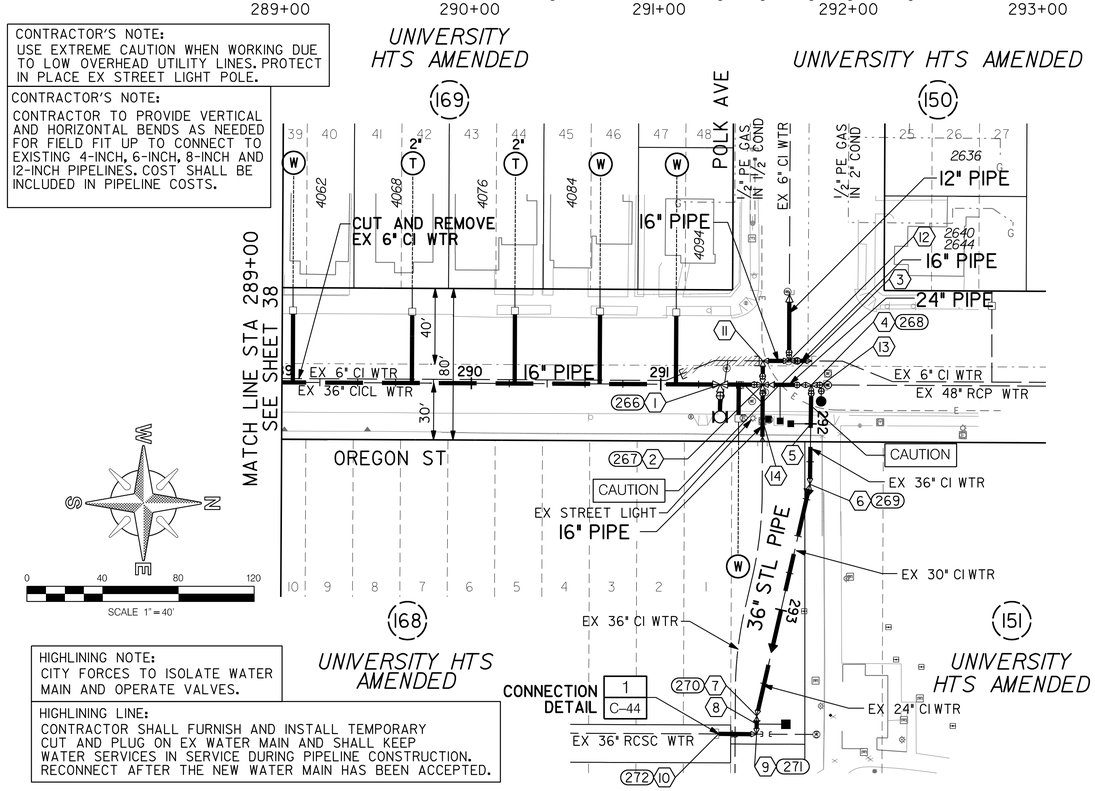
DETAIL A
POLK AVE. AT OREGON ST.
NTS

NOTES:

1. CONFLICT EXISTS BETWEEN RECORD DRAWINGS WITH REGARDS TO ACTUAL LOCATION OF EXISTING 6" CI WATER. DISTANCE FROM EXISTING 36" CICL WATER RANGES BETWEEN 2-FEET AND 4-FEET.
2. ALL STEEL PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. MINIMUM WALL THICKNESS OF 3/8" REQUIRED. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
3. 36-INCH AND 24-INCH STEEL PIPE SHALL BE CEMENT MORTAR LINED AND COATED AND TAPE WRAPPED PER CITY SUPPLEMENT SECTION 207-10.4.7 REQUIREMENTS. SEE DETAILS ON SHEET 47 FOR WELDED JOINT DETAILS.
4. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
5. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES. PROTECT IN PLACE EX STREET LIGHT POLE.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 4-INCH, 6-INCH, 8-INCH AND 12-INCH PIPELINES. COST SHALL BE INCLUDED IN PIPELINE COSTS.



HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

① 266
BY CONTRACTOR
FURNISH & INSTALL
STA 291+31.38
1 - 16"x16"x6" TEE (MJ, MJ, F) RT
1 - 6", 3-PORT FH ASSY & MARKER (REMOVE ENTIRE EX FH ASSY)

② 267
BY CONTRACTOR
FURNISH & INSTALL
STA 291+53.84
1 - 16" CROSS (F)
3 - 16" BFV (F, MJ) BK, RT, LT
1 - 16"x24" RED (F) AHD
1 - 16x36" RED (MJ) 30' RT
30' - 16" CL305 PIPE, RT
SEE DETAIL A

③
BY CONTRACTOR
FURNISH & INSTALL
STA 291+63.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

④ 268
BY CONTRACTOR
FURNISH & INSTALL
STA 291+79.47
1 - 36" STL TEE (F)
1 - 24" BFV (F) BK NORMALLY CLOSED
1 - 24"x36" RED (F) BK
2 - 36" BFV (F) LT, AHD
12' - 36" STL PIPE, LT
SEE DETAIL A

⑤
BY CONTRACTOR
FURNISH & INSTALL
STA 292+00.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

⑥ 269
BY CONTRACTOR
FURNISH & INSTALL
STA 292+31.93
1 - 36" 11¼° STL BEND (PE)

⑦ 270
BY CONTRACTOR
FURNISH & INSTALL
STA 293+57.48
1 - 36" 11¼° STL BEND (PE)

⑧
BY CONTRACTOR
FURNISH & INSTALL
STA 293+62.00
1 - 2" AIR/VACUUM VALVE ASSY, RT

⑨ 271
BY CONTRACTOR
FURNISH & INSTALL
STA 293+67.02
1 - 36" 90° STL BEND (PE)

⑩ 272
BY CONTRACTOR
FURNISH & INSTALL
STA 293+87.02
1 - 36" STL CONNECTION TO EX 36" RCCP
SEE DETAIL 1, DWG C-44
(END CONSTRUCTION OF LINE B)

⑪
BY CONTRACTOR
FURNISH & INSTALL
STA 291+53.84, 12.5' LT
1 - 16" 90° BEND (MJ)
12.5' - 16" CL305 PIPE, LT

⑫
BY CONTRACTOR
FURNISH & INSTALL
STA 291+67.70, 12.5' LT
1 - 16"x16"x12" TEE (MJ, F, F)
1 - 16" BFV (F, MJ) AHD
1 - 16"x6" RED (MJ) 12' AHD
1 - 12" GV (F, MJ) LT
1 - 12"x6" RED (MJ) 35' LT
12' - 16" CL305 PIPE, AHD
35' - 12" CL305 PIPE, LT
SEE DETAIL A

⑬
BY CONTRACTOR
FURNISH & INSTALL
STA 291+79.47, 6' LT
1 - 36"x36"x6" TEE (MJ, MJ, F) AHD
1 - 6" BLOW-OFF ASSY

⑭
BY CONTRACTOR
FURNISH & INSTALL
STA 291+53.84, 18' RT
1 - 2" AIR/VACUUM VALVE ASSY, AHD

REFERENCE:
WATER: 5331-01-W, 5615-W, 5532-W, 6135-L, 6907-W, 7307-W, 12120-2-D, 15598-2-D, 16842-5-D
SEWER:
STORM DRAIN:
GAS: 11-424
ELECTRIC: 214-1728A
CABLE TV:
TELEPHONE: un0802dd
IMPROVEMENTS:
100' SCALE/FIELD BOOK: HI8S
THOMAS BROS.: 1269-D5
HGL: 487.81

RETIREMENTS:
48" - 5' RCP 1953
36" - 280' CI 1909
36" - 34' CI 1955
36" - 54' CI 1909
30" - 84' CI 1909
24" - 42' CI 1909
36" - 5' RCSC 1941
6" - 280' CI 1978
6" - 35' CI 1978
FH (6-PORT) - 1
¾" SERVICE - 1
2" SERVICE - 2
UNKN SERVICE - 3

PRESSURE ZONE: ALVARADO 536

C-36

UNIVERSITY AVE PIPELINE REPLACEMENT

OREGON STREET
16" WATER PIPELINE B
PLAN AND PROFILE
STA 289+00 TO STA 293+87.02

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 39 OF 86 SHEETS

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bagoua PROJECT MANAGER
CHECKED BY Francine Berlin PROJECT ENGINEER
214-1725 CCS27 COORDINATE
1854444-6286407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-39-D

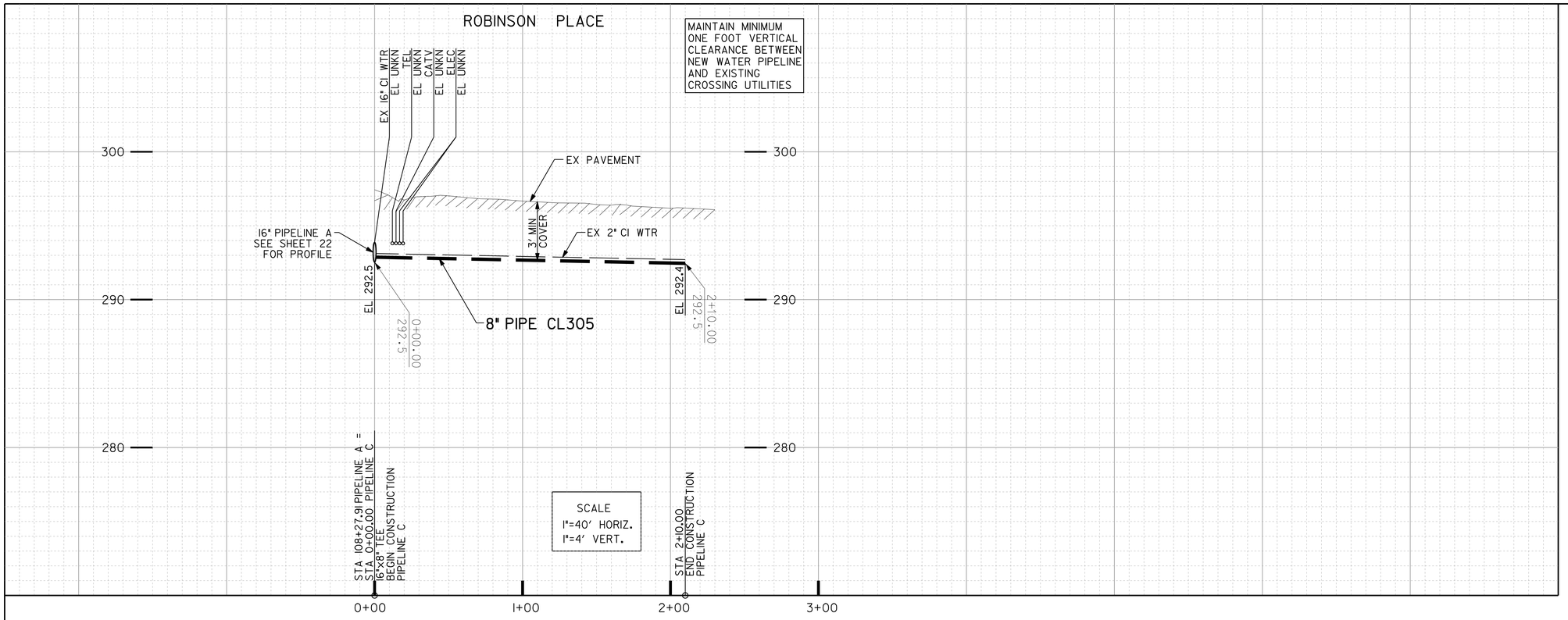
Brown AND Caldwell

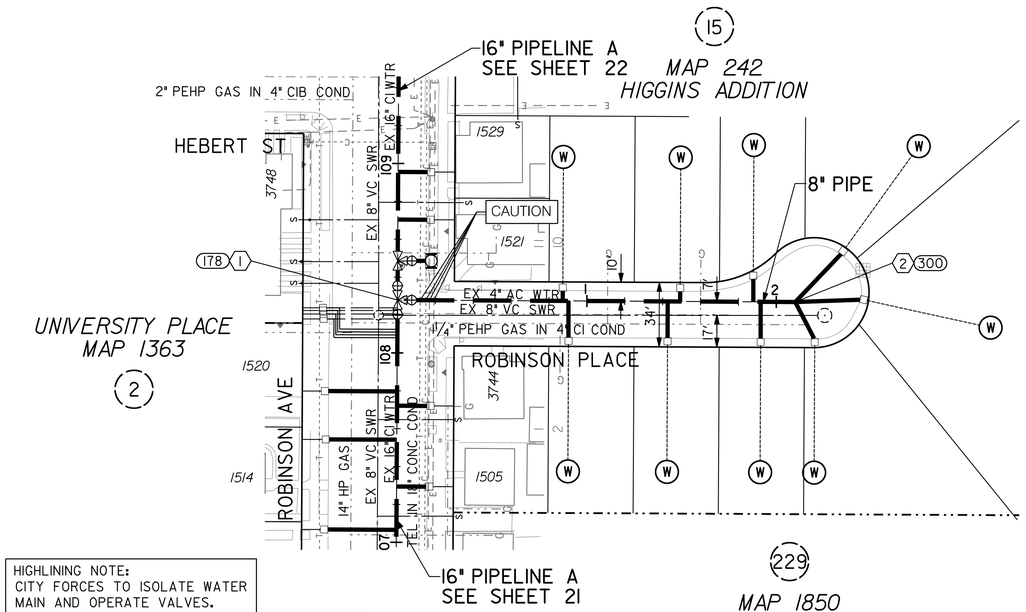
REGISTERED PROFESSIONAL ENGINEER — Judson Wilson — No. C43272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

OREGON STREET

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C36.dgn
18-JUL-2014 15:27 therencia





1 178
BY CONTRACTOR
FURNISH & INSTALL

STA 108+27.91 PIPELINE A =
STA 0+00.00 PIPELINE C
1 - 16"x16"x8" TEE (F)
2 - 16" BFV (F, MJ) BK, AHD
1 - 8" GV (F, MJ) RT
SEE DETAIL A, SHEET 22

2 300
BY CONTRACTOR
FURNISH & INSTALL

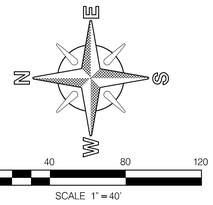
STA 2+10.00
1 - MULTI-SERVICE ASSY DEAD END MAIN

HIGHLINING NOTE:
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

HIGHLINING LINE:
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:
CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED FOR FIELD FIT UP TO CONNECT TO EXISTING 8-INCH AND 12-INCH PIPELINES AT INTERSECTIONS. COST SHALL BE INCLUDED IN PIPELINE COSTS.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER DAVID JUDSON WILLIAMS No. CA5272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

REFERENCE:
WATER: 8055-5-W, 13110-2-D, 11138-7-D, 14432-2-D, 26328-2-D, 26328-4-D
SEWER: 14600-4-D, 14600-5-D, 14600-6-D, 26328-23-D, 30873-10-D, 30873-11-D
STORM DRAIN: 2715-L
GAS: 2-275, 11-329
ELECTRIC: 212-1722B
CABLE TV:
TELEPHONE: un040lad, un040lbc
IMPROVEMENTS:
100' SCALE/FIELD BOOK: G19S
THOMAS BROS.: 1269-C6
HGL: 471.12

RETIREMENTS:
2" - 206' CI 1915
4" - 4' AC 1958
UNKN SERVICE - 9

ROBINSON PLACE

PRESSURE ZONE: ALVARADO 536

C-37

UNIVERSITY AVE PIPELINE REPLACEMENT

ROBINSON PLACE
8" WATER PIPELINE C
PLAN AND PROFILE
STA 0+00 TO STA 2+10.00

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 40 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — 6-9-2014 DATE
DESIGNED BY F. Michael Bogosian PROJECT MANAGER
CHECKED BY Thomas Rodin PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-40-D

HORIZONTAL ALIGNMENT REVIEW REPORT
REPORT CREATED: 5/16/2014

PROJECT: UNIVERSITY PIPELINE
INPUT GRID FACTOR: 1.00

****

ALIGNMENT NAME: PIPELINE A

Element: Linear
POB (100) 0+00.00 1854566.1301 6276161.4727
STA (101) 0+75.00 1854565.7064 6276236.4716
Tangential Direction: S 89° 40'35" E
Tangential Length: 75.00

Element: Linear
STA (101) 0+75.00 1854565.7064 6276236.4716
STA (102) 2+93.57 1854565.2715 6276455.0417
Tangential Direction:S 89° 53'10" E
Tangential Length: 218.57

Element: Linear
STA (102) 2+93.57 1854565.2715 6276455.0417
STA (103) 3+25.26 1854565.2084 6276486.7301
Tangential Direction: S 89° 53'10" E
Tangential Length: 31.69

Element: Linear
STA (103) 3+25.26 1854565.2084 6276486.7301
STA (104) 5+53.01 1854564.7552 6276714.4849
Tangential Direction: S 89° 53'10" E
Tangential Length: 227.76

Element: Linear
STA (104) 5+53.01 1854564.7552 6276714.4849
STA (105) 5+78.48 1854564.7046 6276739.9538
Tangential Direction: S 89° 53'10" E
Tangential Length: 25.47

Element: Linear
STA (105) 5+78.48 1854564.7046 6276739.9538
STA (106) 8+24.56 1854564.2149 6276986.0285
Tangential Direction: S 89° 53'10" E
Tangential Length: 246.08

Element: Linear
STA (106) 8+24.56 1854564.2149 6276986.0285
STA (107) 8+55.26 1854564.1538 6277016.7291
Tangential Direction: S 89° 53'10" E
Tangential Length: 30.70

Element: Linear
STA (107) 8+55.26 1854564.1538 6277016.7291
STA (108) 11+02.90 1854563.6611 6277264.3720
Tangential Direction: S 89° 53'10" E
Tangential Length: 247.64

Element: Linear
STA (108) 11+02.90 1854563.6611 6277264.3720
STA (109) 13+83.55 1854563.1027 6277545.0189
Tangential Direction: S 89° 53'10" E
Tangential Length: 280.65

Element: Linear
PI(109)13+83.55 1854563.1027 6277545.0189
PI(110)14+03.09 1854563.0638 6277564.5616
Tangential Direction: S 89° 53'10" E
Tangential Length: 19.54

Element: Linear
STA (110) 14+03.09 1854563.0638 6277564.5616
STA (111) 16+64.74 1854562.5431 6277826.2120
Tangential Direction: S 89° 53'10" E
Tangential Length: 261.65

Element: Linear
STA (111) 16+64.74 1854562.5431 6277826.2120
STA (112) 16+76.70 1854562.5193 6277838.1714
Tangential Direction: S 89° 53'10" E
Tangential Length: 11.96

Element: Linear
STA (112) 16+76.70 1854562.5193 6277838.1714
STA (113) 19+53.00 1854561.9696 6278114.4633
Tangential Direction: S 89° 53'10" E
Tangential Length: 276.29

Element: Linear
STA (113) 19+53.00 1854561.9696 6278114.4633
STA (114) 20+77.40 1854437.570 6278114.2107
Tangential Direction: S 0° 06'59" W
Tangential Length: 124.40

Element: Linear
STA (114) 20+77.40 1854437.5702 6278114.2107
STA (115) 22+40.00 1854274.9659 6278113.8805
Tangential Direction: S 0° 06'59" W
Tangential Length: 162.60

Element: Linear
STA (115) 22+40.00 1854274.9659 6278113.8805
STA (116) 22+89.81 1854225.1584 6278113.7794
Tangential Direction: S 0° 06'59" W
Tangential Length: 49.81

Element: Linear
STA (116) 22+89.81 1854225.1584 6278113.7794
STA (117) 24+46.49 1854068.4728 6278113.4612
Tangential Direction: S 0° 06'59" W
Tangential Length: 156.69

Element: Linear
STA (117) 24+46.49 1854068.4728 6278113.4612
STA (118) 26+34.09 1853880.8805 6278113.0802
Tangential Direction: S 0° 06'59" W
Tangential Length: 187.59

Element: Linear
STA (118) 26+34.09 1853880.8805 6278113.0802
STA (119) 26+69.40 1853845.5658 6278113.0085
Tangential Direction: S 0° 06'59" W
Tangential Length: 35.31

Element: Linear
STA (119) 26+69.40 1853845.5658 6278113.0085
STA (120) 27+10.00 1853845.4764 6278153.6075
Tangential Direction: S 89° 52'26" E
Tangential Length: 40.60

Element: Linear
STA (120) 27+10.00 1853845.4764 6278153.6075
STA (121) 29+42.51 1853844.9645 6278386.1193
Tangential Direction: S 89° 52'26" E
Tangential Length: 232.51

Element: Linear
STA (121) 29+42.51 1853844.9645 6278386.1193
STA (122) 32+21.30 1853844.3507 6278664.9018
Tangential Direction: S 89° 52'26" E
Tangential Length: 278.78

Element: Linear
STA (122) 32+21.30 1853844.3507 6278664.9018
STA (123) 34+82.02 1853843.7767 6278925.6247
Tangential Direction: S 89° 52'26" E
Tangential Length: 260.72

Element: Linear
STA (123) 34+82.02 1853843.7767 6278925.6247
STA (124) 34+99.77 1853843.7376 6278943.3774
Tangential Direction: S 89° 52'26" E
Tangential Length: 17.75

Element: Linear
STA (124) 34+99.77 1853843.7376 6278943.3774
STA (125) 37+81.45 1853843.1174 6279225.0529
Tangential Direction: S 89° 52'26" E
Tangential Length: 281.68

Element: Linear
STA (125) 37+81.45 1853843.1174 6279225.0529
STA (126) 40+10.26 1853844.2393 6279453.8585
Tangential Direction: N 89° 43'09" E
Tangential Length: 228.81

Element: Linear
STA (126) 40+10.26 1853844.2393 6279453.8585
STA (127) 41+90.00 1853845.1207 6279633.5996
Tangential Direction: N 89° 43'09" E
Tangential Length: 179.74

Element: Linear
STA (127) 41+90.00 1853845.1207 6279633.5996
STA (128) 42+12.62 1853845.2316 6279656.2180
Tangential Direction: N 89° 43'09" E
Tangential Length: 22.62

Element: Linear
STA (128) 42+12.62 1853845.2316 6279656.2180
STA (129) 43+58.20 1853845.0549 6279801.8041
Tangential Direction: S 89° 55'50" E
Tangential Length: 145.59

Element: Linear
STA (129) 43+58.20 1853845.0549 6279801.8041
STA (130) 43+72.94 1853845.0371 6279816.5402
Tangential Direction: S 89° 55'50" E
Tangential Length: 14.74

Element: Linear
STA (130) 43+72.94 1853845.0371 6279816.5402
STA (131) 45+51.75 1853844.8201 6279995.3471
Tangential Direction: S 89° 55'50" E
Tangential Length: 178.81

Element: Linear
STA (131) 45+51.75 1853844.8201 6279995.3471
STA (132) 47+17.81 1853844.6185 6280161.4134
Tangential Direction: S 89° 55'50" E
Tangential Length: 166.07

Element: Linear
STA (132) 47+17.81 1853844.6185 6280161.4134
STA (133) 47+70.27 1853844.5549 6280213.8690
Tangential Direction: S 89° 55'50" E
Tangential Length: 52.46

Element: Linear
STA (133) 47+70.27 1853844.5549 6280213.8690
STA (134) 49+01.61 1853844.3955 6280345.2078
Tangential Direction: S 89° 55'50" E
Tangential Length: 131.34

Element: Linear
STA (134) 49+01.61 1853844.3955 6280345.2078
STA (135) 50+62.72 1853844.2000 6280506.3181
Tangential Direction: S 89° 55'50" E
Tangential Length: 161.11

Element: Linear
STA (135) 50+62.72 1853844.2000 6280506.3181
STA (136) 51+20.27 1853844.1301 6280563.8688
Tangential Direction: S 89° 55'50" E
Tangential Length: 57.55

Element: Linear
STA (136) 51+20.27 1853844.1301 6280563.8688
STA (137) 52+37.48 1853843.9879 6280681.0830
Tangential Direction: S 89° 55'50" E
Tangential Length: 117.21

Element: Linear
STA (137) 52+37.48 1853843.9879 6280681.0830
STA (138) 54+05.67 1853843.7838 6280849.2706
Tangential Direction: S 89° 55'50" E
Tangential Length: 168.19

Element: Linear
STA (138) 54+05.67 1853843.7838 6280849.2706
STA (139) 54+20.27 1853843.7661 6280863.8685
Tangential Direction: S 89° 55'50" E
Tangential Length: 14.60

Element: Linear
STA (139) 54+20.27 1853843.7661 6280863.8685
STA (140) 55+89.30 1853843.5609 6281032.8980
Tangential Direction: S 89° 55'50" E
Tangential Length: 169.03

Element: Linear
STA (140) 55+89.30 1853843.5609 6281032.8980
STA (141) 57+60.79 1853843.3528 6281204.3866
Tangential Direction: S 89° 55'50" E
Tangential Length: 171.49

Element: Linear
STA (141) 57+60.79 1853843.3528 6281204.3866
STA (142) 57+80.26 1853843.3292 6281223.8613
Tangential Direction: S 89° 55'50" E
Tangential Length: 19.47

Element: Linear
STA (142) 57+80.26 1853843.3292 6281223.8613
STA (143) 59+46.08 1853843.1280 6281389.6792
Tangential Direction: S 89° 55'50" E
Tangential Length: 165.82

Element: Linear
STA (143) 59+46.08 1853843.1280 6281389.6792
STA (144) 61+63.23 1853842.8644 6281606.8237
Tangential Direction: S 89° 55'50" E
Tangential Length: 217.14

Element: Linear
STA (144) 61+63.23 1853842.8644 6281606.8237
STA (145) 61+78.86 1853836.8370 6281621.2495
Tangential Direction: S 67° 19'25" E
Tangential Length: 15.63

Element: Linear
STA (145) 61+78.86 1853836.8370 6281621.2495
STA (146) 61+98.86 1853836.8159 6281641.2495
Tangential Direction: S 89° 56'23" E
Tangential Length: 20.00

Element: Linear
STA (146) 61+98.86 1853836.8159 6281641.2495
STA (147) 62+48.95 1853836.7633 6281691.3395
Tangential Direction: S 89° 56'23" E
Tangential Length: 50.09

Element: Linear
STA (147) 62+48.95 1853836.7633 6281691.3395
STA (148) 63+10.23 1853836.6990 6281752.6161
Tangential Direction: S 89° 56'23" E
Tangential Length: 61.28

Element: Linear
STA (148) 63+10.23 1853836.6990 6281752.6161
STA (149) 63+44.17 1853802.7535 6281752.5585
Tangential Direction: S 0° 05'50" W
Tangential Length: 33.95

Element: Linear
STA (149) 63+44.17 1853802.7535 6281752.5585
STA (150) 65+94.59 1853552.3330 6281752.1338
Tangential Direction: S 0° 05'50" W
Tangential Length: 250.42

Element: Linear
STA (150) 65+94.59 1853552.3330 6281752.1338
STA (151) 66+00.00 1853546.9260 6281752.1247
Tangential Direction: S 0° 05'50" W
Tangential Length: 5.41

Element: Linear
STA (151) 66+00.00 1853546.9260 6281752.1247
STA (152) 66+38.00 1853508.9260 6281752.0602
Tangential Direction: S 0° 05'50" W
Tangential Length: 38.00

Element: Linear
STA (152) 66+38.00 1853508.9260 6281752.0602
STA (153) 67+99.64 1853347.2900 6281751.7861
Tangential Direction: S 0° 05'50" W
Tangential Length: 161.64

Element: Linear
STA (153) 67+99.64 1853347.2900 6281751.7861
STA (154) 68+06.58 1853340.3430 6281751.7744
Tangential Direction: S 0° 05'50" W
Tangential Length: 6.95

Element: Linear
STA (154) 68+06.58 1853340.3430 6281751.7744
STA (200) 68+69.67 1853277.2569 6281751.6674
Tangential Direction: S 0° 05'50" W
Tangential Length: 63.09

Element: Linear
STA (200) 68+69.67 1853277.2569 6281751.6674
STA (155) 69+01.62 1853245.3093 6281751.6100
Tangential Direction: S 0° 06'11" W
Tangential Length: 31.95

Element: Linear
STA (155) 69+01.62 1853245.3093 6281751.6100
STA (156) 71+52.26 1852994.6641 6281751.1595
Tangential Direction: S 0° 06'11" W
Tangential Length: 250.65

Element: Linear
STA (156) 71+52.26 1852994.6641 6281751.1595
STA (157) 73+79.26 1852767.6638 6281750.7514
Tangential Direction: S 0° 06'11" W
Tangential Length: 227.00

Element: Linear
STA (157) 73+79.26 1852767.6638 6281750.7514
STA (158) 76+40.03 1852766.5856 6282011.5171
Tangential Direction: S 89° 45'47" E
Tangential Length: 260.77

Element: Linear
STA (158) 76+40.03 1852766.5856 6282011.5171
STA (159) 77+00.13 1852766.3371 6282071.6182
Tangential Direction: S 89° 45'47" E
Tangential Length: 60.10

Element: Linear
STA (159) 77+00.13 1852766.3371 6282071.6182
STA (160) 79+99.10 1852765.1010 6282370.5880
Tangential Direction: S 89° 45'47" E
Tangential Length: 298.97

Element: Linear
STA (160) 79+99.10 1852765.1010 6282370.5880
STA (161) 83+00.31 1852763.8557 6282671.7893
Tangential Direction: S 89° 45'47" E
Tangential Length: 301.20

Element: Linear
STA (161) 83+00.31 1852763.8557 6282671.7893
STA (162) 83+67.86 1852763.5764 6282739.3424
Tangential Direction: S 89° 45'47" E
Tangential Length: 67.55

Element: Linear
STA (162) 83+67.86 1852763.5764 6282739.3424
STA (163) 84+59.26 1852672.1830 6282738.5588
Tangential Direction: S 0° 29'28" W
Tangential Length: 91.40

Element: Linear
STA (163) 84+59.26 1852672.1830 6282738.5588
STA (164) 84+66.00 1852672.1252 6282745.2987
Tangential Direction: S 89° 30'32" E
Tangential Length: 6.74

Element: Linear
STA (164) 84+66.00 1852672.1252 6282745.2987
STA (165) 85+30.31 1852671.5739 6282809.6061
Tangential Direction: S 89° 30'32" E
Tangential Length: 64.31

Element: Linear
STA (165) 85+30.31 1852671.5739 6282809.6061
STA (166) 89+00.31 1852539.0305 6283155.0511
Tangential Direction: S 69° 00'32" E
Tangential Length: 370.00

Element: Linear
STA (166) 89+00.31 1852539.0305 6283155.0511
STA (167) 89+44.10 1852581.9341 6283163.8005
Tangential Direction: N 11° 31'35" E
Tangential Length: 43.79

Element: Linear
STA (167) 89+44.10 1852581.9341 6283163.8005
STA (168) 90+95.46 1852551.6894 6283312.1093
Tangential Direction: S 78° 28'25" E
Tangential Length: 151.36

Element: Linear
STA (168) 90+95.46 1852551.6894 6283312.1093
STA (169) 91+15.57 1852551.5900 6283332.2187
Tangential Direction: S 89° 43'00" E
Tangential Length: 20.11

Element: Linear
STA (169) 91+15.57 1852551.5900 6283332.2187
STA (170) 91+47.59 1852551.4316 6283364.2464
Tangential Direction: S 89° 43'00" E
Tangential Length: 32.03

Element: Linear
STA (170) 91+47.59 1852551.4316 6283364.2464
STA (171) 94+97.21 1852549.7032 6283713.8595
Tangential Direction: S 89° 43'00" E
Tangential Length: 349.62

FOR CONTINUATION SEE SHEET 42

HORIZONTAL ALIGNMENT COORDINATE INDEX REPORT 1

C-38

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

HORIZONTAL ALIGNMENT
COORDINATE INDEX REPORT 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 41 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014
SUBMITTED BY F. Michael Bagoua PROJECT MANAGER
DESIGNED BY Francine Bonilla PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656- 41 -D

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

HORIZONTAL ALIGNMENT REVIEW REPORT
REPORT CREATED: 5/16/2014

PROJECT: UNIVERSITY PIPELINE
INPUT GRID FACTOR: 1.00

****

ALIGNMENT NAME: PIPELINE A

FOR CONTINUATION SEE SHEET 41

Element: Linear
STA (171) 94+97.21 1852549.7032 6283713.8595
STA (172) 96+74.98 1852548.8243 6283891.6252
Tangential Direction: S 89° 43'00" E
Tangential Length: 177.77

Element: Linear
STA (172) 96+74.98 1852548.8243 6283891.6252
STA (173) 100+12.18 1852547.1573 6284228.8217
Tangential Direction: S 89° 43'00" E
Tangential Length: 337.20

Element: Linear
STA (173) 100+12.18 1852547.1573 6284228.8217
STA (174) 103+56.27 1852545.4562 6284572.9040
Tangential Direction: S 89° 43'00" E
Tangential Length: 344.09

Element: Linear
STA (174) 103+56.27 1852545.4562 6284572.9040
STA (175) 105+89.79 1852544.3017 6284806.4257
Tangential Direction: S 89° 43'00" E
Tangential Length: 233.52

Element: Linear
STA (175) 105+89.79 1852544.3017 6284806.4257
STA (176) 106+32.98 1852544.0882 6284849.6132
Tangential Direction: S 89° 43'00" E
Tangential Length: 43.19

Element: Linear
STA (176) 106+32.98 1852544.0882 6284849.6132
STA (178) 108+27.91 1852543.1245 6285044.5433
Tangential Direction: S 89°33'/64"43'00" E
Tangential Length: 194.93

Element: Linear
PSTA(178) 108+27.91 1852543.1245 6285044.5433
STA (177) 108+48.66 1852543.0219 6285065.2875
Tangential Direction: S 89°33'/64"43'00" E
Tangential Length: 20.74

Element: Linear
PSTA(177) 108+48.66 1852543.0219 6285065.2875
STA (179) 109+56.60 1852542.4882 6285173.2319
Tangential Direction: S 89°33'/64"43'00" E
Tangential Length: 107.95

Element: Linear
PSTA(179) 109+56.60 1852542.4882 6285173.2319
STA (180) 112+12.20 1852541.2246 6285428.8272
Tangential Direction: S 89°33'/64"43'00" E
Tangential Length: 255.60

Element: Linear
PSTA(180) 112+12.20 1852541.2246 6285428.8272
STA (181) 112+21.41 1852541.1791 6285438.0339
Tangential Direction: S 89°33'/64"43'00" E
Tangential Length: 9.21

Element: Linear
PSTA(181) 112+21.41 1852541.1791 6285438.0339
STA (182) 112+47.12 1852536.0357 6285463.2221
Tangential Direction: S 78° 27'33" E
Tangential Length: 25.71

Element: Linear
STA (182) 112+47.12 1852536.0357 6285463.2221
STA (183) 112+66.76 1852535.9674 6285482.8638
Tangential Direction: S 89° 48'02" E
Tangential Length: 19.64

Element: Linear
STA (183) 112+66.76 1852535.9674 6285482.8638
STA (184) 114+34.27 1852535.3846 6285650.3784
Tangential Direction: S 89° 48'02" E
Tangential Length: 167.52

Element: Linear
STA (184) 114+34.27 1852535.3846 6285650.3784
STA (185) 114+82.20 1852535.2179 6285698.3046
Tangential Direction: S 89° 48'02" E
Tangential Length: 47.93

Element: Linear
STA (185) 114+82.20 1852535.2179 6285698.3046
STA (186) 116+24.25 1852534.7236 6285840.3559
Tangential Direction: S 89° 48'02" E
Tangential Length: 142.05

Element: Linear
STA (186) 116+24.25 1852534.7236 6285840.3559
STA (187) 116+82.20 1852534.5220 6285898.3034
Tangential Direction: S 89° 48'02" E
Tangential Length: 57.95

Element: Linear
STA (187) 116+82.20 1852534.5220 6285898.3034
STA (188) 118+10.31 1852534.0763 6286026.4180
Tangential Direction: S 89° 48'02" E
Tangential Length: 128.12

Element: Linear
STA (188) 118+10.31 1852534.0763 6286026.4180
STA (189) 118+72.43 1852533.8602 6286088.5296
Tangential Direction: S 89° 48'02" E
Tangential Length: 62.11

Element: Linear
STA (189) 118+72.43 1852533.8602 6286088.5296
STA (190) 119+01.42 1852533.7594 6286117.5206
Tangential Direction: S 89° 48'02" E
Tangential Length: 28.99

Element: Linear
STA (190) 119+01.42 1852533.7594 6286117.5206
STA (191) 119+20.63 1852533.6925 6286136.7364
Tangential Direction: S 89° 48'02" E
Tangential Length: 19.22

Element: Linear
STA (191) 119+20.63 1852533.6925 6286136.7364
STA (192) 119+33.47 1852538.5644 6286148.6150
Tangential Direction: N 67° 41'58" E
Tangential Length: 12.84

Element: Linear
STA (192) 119+33.47 1852538.5644 6286148.6150
STA (193) 119+53.47 1852538.4717 6286168.6148
Tangential Direction: S 89° 44'04" E
Tangential Length: 20.00

****

ALIGNMENT NAME: PIPELINE B

Element: Linear
STA (200) 200+00.00 1853277.2569 6281751.6674
STA (201) 200+30.94 1853277.1449 6281782.6117
Tangential Direction: S 89° 47'33" E
Tangential Length: 30.94

Element: Linear
STA (201) 200+30.94 1853277.1449 6281782.6117
STA (202) 202+63.81 1853276.3018 6282015.4775
Tangential Direction: S 89° 47'33" E
Tangential Length: 232.87

Element: Linear
STA (202) 202+63.81 1853276.3018 6282015.4775
STA (203) 202+71.13 1853276.2752 6282022.7991
Tangential Direction: S 89° 47'33" E
Tangential Length: 7.32

Element: Linear
STA (203) 202+71.13 1853276.2752 6282022.7991
STA (204) 205+90.00 1853275.1208 6282341.6626
Tangential Direction: S 89° 47'33" E
Tangential Length: 318.87

Element: Linear
STA (204) 205+90.00 1853275.1208 6282341.6626
STA (205) 206+23.03 1853275.0012 6282374.6887
Tangential Direction: S 89° 47'33" E
Tangential Length: 33.03

Element: Linear
STA (205) 206+23.03 1853275.0012 6282374.6887
STA (206) 208+23.01 1853274.0267 6282574.6734
Tangential Direction: S 89° 43'15" E
Tangential Length: 199.99

Element: Linear
STA (206) 208+23.01 1853274.0267 6282574.6734
STA (207) 209+23.03 1853273.5394 6282674.6891
Tangential Direction: S 89° 43'15" E
Tangential Length: 100.02

Element: Linear
STA (207) 209+23.03 1853273.5394 6282674.6891
STA (208) 209+92.08 1853273.2029 6282743.7409
Tangential Direction: S 89° 43'15" E
Tangential Length: 69.05

Element: Linear
STA (208) 209+92.08 1853273.2029 6282743.7409
STA (209) 211+54.02 1853272.4138 6282905.6820
Tangential Direction: S 89° 43'15" E
Tangential Length: 161.94

Element: Linear
STA (209) 211+54.02 1853272.4138 6282905.6820
STA (210) 212+50.39 1853271.9442 6283002.0429
Tangential Direction: S 89° 43'15" E
Tangential Length: 96.36

Element: Linear
STA (210) 212+50.39 1853271.9442 6283002.0429
STA (211) 212+60.00 1853271.8974 6283011.6557
Tangential Direction: S 89° 43'15" E
Tangential Length: 9.61

Element: Linear
STA (211) 212+60.00 1853271.8974 6283011.6557
STA (212) 212+67.19 1853276.9581 6283016.7633
Tangential Direction: N 45° 15'51" E
Tangential Length: 7.19

Element: Linear
STA (212) 212+67.19 1853276.9581 6283016.7633
STA (213) 212+72.00 1853276.9359 6283021.5731
Tangential Direction: S 89° 44'09" E
Tangential Length: 4.81

Element: Linear
STA (213) 212+72.00 1853276.9359 6283021.5731
STA (214) 214+70.04 1853276.0226 6283219.6139
Tangential Direction: S 89° 44'09" E
Tangential Length: 198.04

Element: Linear
STA (214) 214+70.04 1853276.0226 6283219.6139
STA (215) 214+81.09 1853275.9716 6283230.6656
Tangential Direction: S 89° 44'09" E
Tangential Length: 11.05

Element: Linear
STA (215) 214+81.09 1853275.9716 6283230.6656
EQN BK 214+91.01 1853285.8868 6283230.7113
EQN AHD A 214+93.99 1853285.8868 6283230.7113
STA (216)A 214+93.99 1853285.8874 6283230.7113
Tangential Direction: N 0° 15'51" E
Tangential Length: 9.92

Element: Linear
STA (216)A 214+93.99 1853285.8874 6283230.7113
STA (217)A 215+99.84 1853285.3742 6283336.5587
Tangential Direction: S 89° 43'20" E
Tangential Length: 105.85

Element: Linear
STA (217)A 215+99.84 1853285.3742 6283336.5587
STA (218)A 218+20.02 1853284.3113 6283556.7329
Tangential Direction: S 89° 43'24" E
Tangential Length: 220.18

Element: Linear
STA (218)A 218+20.02 1853284.3113 6283556.7329
STA (219)A 219+89.73 1853283.4920 6283726.4423
Tangential Direction: S 89° 43'24" E
Tangential Length: 169.71

Element: Linear
STA (219)A 219+89.73 1853283.4920 6283726.4423
STA (220)A 221+31.80 1853282.8062 6283868.5132
Tangential Direction: S 89° 43'24" E
Tangential Length: 142.07

Element: Linear
STA (220)A 221+31.80 1853282.8062 6283868.5132
STA (221)A 221+59.69 1853282.6715 6283896.4068
Tangential Direction: S 89° 43'24" E
Tangential Length: 27.89

Element: Linear
STA (221)A 221+59.69 1853282.6715 6283896.4068
STA (222)A 223+51.73 1853281.7445 6284088.4421
Tangential Direction: S 89° 43'24" E
Tangential Length: 192.04

Element: Linear
STA (222)A 223+51.73 1853281.7445 6284088.4421
STA (223)A 225+16.51 1853280.9490 6284253.2153
Tangential Direction: S 89° 43'24" E
Tangential Length: 164.78

Element: Linear
STA (223)A 225+16.51 1853280.9490 6284253.2153
STA (224)A 227+20.01 1853279.9666 6284456.7170
Tangential Direction: S 89° 43'24" E
Tangential Length: 203.50

Element: Linear
STA (224)A 227+20.01 1853279.9666 6284456.7170
STA (225)A 228+10.92 1853279.5278 6284547.6215
Tangential Direction: S 89° 43'24" E
Tangential Length: 90.91

Element: Linear
STA (225)A 228+10.92 1853279.5278 6284547.6215
STA (226)A 228+39.98 1853279.3875 6284576.6853
Tangential Direction: S 89° 43'24" E
Tangential Length: 29.06

Element: Linear
STA (226)A 228+39.98 1853279.3875 6284576.6853
STA (227)A 230+02.99 1853278.6005 6284739.6949
Tangential Direction: S 89° 43'24" E
Tangential Length: 163.01

Element: Linear
STA (227)A 230+02.99 1853278.6005 6284739.6949
STA (228)A 230+74.23 1853278.2567 6284810.9292
Tangential Direction: S 89° 43'24" E
Tangential Length: 71.24

Element: Linear
STA (228)A 230+74.23 1853278.2567 6284810.9292
STA (229)A 230+84.99 1853278.2047 6284821.6894
Tangential Direction: S 89° 43'24" E
Tangential Length: 10.76

Element: Linear
STA (229)A 230+84.99 1853278.2047 6284821.6894
STA (230)A 232+39.11 1853277.4607 6284975.8140
Tangential Direction: S 89° 43'24" E
Tangential Length: 154.13

Element: Linear
STA (230)A 232+39.11 1853277.4607 6284975.8140
STA (231)A 232+53.90 1853277.3893 6284990.5960
Tangential Direction: S 89° 43'24" E
Tangential Length: 14.78

Element: Linear
STA (231)A 232+53.90 1853277.3893 6284990.5960
STA (232)A 233+23.07 1853277.0554 6285059.7647
Tangential Direction: S 89° 43'24" E
Tangential Length: 69.17

Element: Linear
STA (232)A 233+23.07 1853277.0554 6285059.7647
STA (233)A 233+54.69 1853264.9547 6285088.9784
Tangential Direction: S 67° 30'00" E
Tangential Length: 31.62

Element: Linear
STA (233)A 233+54.69 1853264.9547 6285088.9784
STA (234)A 234+39.97 1853264.5990 6285174.2610
Tangential Direction: S 89° 45'40" E
Tangential Length: 85.28

Element: Linear
STA (234)A 234+39.97 1853264.5990 6285174.2610
STA (235)A 237+36.86 1853263.3605 6285471.1442
Tangential Direction: S 89° 45'40" E
Tangential Length: 296.89

Element: Linear
STA (235)A 237+36.86 1853263.3605 6285471.1442
STA (236)A 237+49.94 1853263.3060 6285484.2258
Tangential Direction: S 89° 45'40" E
Tangential Length: 13.08

Element: Linear
STA (236)A 237+49.94 1853263.3060 6285484.2258
STA (237)A 240+78.82 1853261.9341 6285813.1101
Tangential Direction: S 89° 45'40" E
Tangential Length: 328.89

Element: Linear
STA (237)A 240+78.82 1853261.9341 6285813.1101
STA (238)A 243+86.33 1853260.6514 6286120.6117
Tangential Direction: S 89° 45'40" E
Tangential Length: 307.50

Element: Linear
STA (238)A 243+86.33 1853260.6514 6286120.6117
STA (239)A 251+47.23 1853257.4774 6286881.5092
Tangential Direction: S 89° 45'40" E
Tangential Length: 760.90

Element: Linear
STA (239)A 251+47.23 1853257.4774 6286881.5092
STA (240)A 253+55.01 1853256.6106 6287089.2845
Tangential Direction: S 89° 45'40" E
Tangential Length: 207.78

Element: Linear
STA (240)A 253+55.01 1853256.6106 6287089.2845
STA (241)A 255+25.21 1853255.9007 6287259.4823
Tangential Direction: S 89° 45'40" E
Tangential Length: 170.20

Element: Linear
STA (241)A 255+25.21 1853255.9007 6287259.4823
STA (242)A 255+39.40 1853255.6540 6287273.6735
Tangential Direction: S 89° 00'15" E
Tangential Length: 14.19

Element: Linear
STA (242)A 255+39.40 1853255.6540 6287273.6735
STA (243)A 256+23.34 1853254.1952 6287357.5992
Tangential Direction: S 89° 00'15" E
Tangential Length: 83.94

Element: Linear
STA (243)A 256+23.34 1853254.1952 6287357.5992
STA (244)A 259+05.40 1853249.2929 6287639.6169
Tangential Direction: S 89° 00'15" E
Tangential Length: 282.06

Element: Linear
STA (244)A 259+05.40 1853249.2929 6287639.6169
STA (245)A 259+48.92 1853249.1044 6287683.1339
Tangential Direction: S 89° 45'06" E
Tangential Length: 43.52

Element: Linear
STA (245)A 259+48.92 1853249.1044 6287683.1339
STA (246)A 261+40.01 1853248.2763 6287874.2241
Tangential Direction: S 89° 45'06" E
Tangential Length: 191.09

Element: Linear
STA (246)A 261+40.01 1853248.2763 6287874.2241
STA (247)A 262+84.08 1853247.6520 6288018.2893
Tangential Direction: S 89° 45'06" E
Tangential Length: 144.07

Element: Linear
STA (247)A 262+84.08 1853247.6520 6288018.2893
STA (248)A 266+07.17 1853246.2520 6288341.3821
Tangential Direction: S 89° 45'06" E
Tangential Length: 323.10

FOR CONTINUATION SEE SHEET 43

HORIZONTAL ALIGNMENT COORDINATE INDEX REPORT 2

C-39

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

HORIZONTAL ALIGNMENT
COORDINATE INDEX REPORT 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 42 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — DATE 6-9-2014
DESIGNED BY F. Michael Bafgowa PROJECT MANAGER
CHECKED BY Francisco Rodriguez PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-42-D

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARNER No. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C39.dgn
18-JUL-2014 15:28 therencia

HORIZONTAL ALIGNMENT REVIEW REPORT
REPORT CREATED: 5/16/2014

PROJECT: UNIVERSITY PIPELINE
INPUT GRID FACTOR: 1.00

****

ALIGNMENT NAME: PIPELINE B

FOR CONTINUATION SEE SHEET 42

Element: Linear
STA (248)A 266+07.17 1853246.2520 6288341.3821
STA (249)A 266+64.71 1853246.0026 6288398.9197
Tangential Direction: S 89° 45'06" E
Tangential Length: 57.54

Element: Linear
STA (249)A 266+64.71 1853246.0026 6288398.9197
STA (250)A 268+25.01 1853245.3080 6288559.2133
Tangential Direction: S 89° 45'06" E
Tangential Length: 160.30

Element: Linear
STA (250)A 268+25.01 1853245.3080 6288559.2133
STA (251)A 269+40.20 1853244.8089 6288674.4039
Tangential Direction: S 89° 45'06" E
Tangential Length: 115.19

Element: Linear
STA (251)A 269+40.20 1853244.8089 6288674.4039
STA (252)A 270+00.00 1853244.5498 6288734.2059
Tangential Direction: S 89° 45'06" E
Tangential Length: 59.80

Element: Linear
STA (252)A 270+00.00 1853244.5498 6288734.2059
STA (253)A 270+41.87 1853244.3683 6288776.0723
Tangential Direction: S 89° 45'06" E
Tangential Length: 41.87

Element: Linear
STA (253)A 270+41.87 1853244.3683 6288776.0723
STA (254)A 272+79.12 1853243.3403 6289013.3236
Tangential Direction: S 89° 45'06" E
Tangential Length: 237.25

Element: Linear
STA (254)A 272+79.12 1853243.3403 6289013.3236
STA (255)A 274+21.47 1853242.7234 6289155.6752
Tangential Direction: S 89° 45'06" E
Tangential Length: 142.35

Element: Linear
STA (255)A 274+21.47 1853242.7234 6289155.6752
STA (256)A 276+11.06 1853241.9019 6289345.2580
Tangential Direction: S 89° 45'06" E
Tangential Length: 189.58

Element: Linear
STA (256)A 276+11.06 1853241.9019 6289345.2580
STA (257)A 277+74.00 1853241.1958 6289508.1982
Tangential Direction: S 89° 45'06" E
Tangential Length: 162.94

Element: Linear
STA (257)A 277+74.00 1853241.1958 6289508.1982
STA (258)A 278+01.38 1853241.0772 6289535.5815
Tangential Direction: S 89° 45'06" E
Tangential Length: 27.38

Element: Linear
STA (258)A 278+01.38 1853241.0772 6289535.5815
STA (259)A 278+10.05 1853249.7405 6289535.6598
Tangential Direction: N 0° 31'04" E
Tangential Length: 8.66

Element: Linear
STA (259)A 278+10.05 1853249.7405 6289535.6598
STA (260)A 279+65.07 1853404.7594 6289537.0605
Tangential Direction: N 0° 31'04" E
Tangential Length: 155.03

Element: Linear
STA (260)A 279+65.07 1853404.7594 6289537.0605
STA (261)A 282+00.02 1853639.6934 6289539.1833
Tangential Direction: N 0° 31'04" E
Tangential Length: 234.94

Element: Linear
STA (261)A 282+00.02 1853639.6934 6289539.1833
STA (262)A 284+55.70 1853895.3685 6289541.4936
Tangential Direction: N 0° 31'04" E
Tangential Length: 255.69

Element: Linear
STA (262)A 284+55.70 1853895.3685 6289541.4936
STA (263)A 284+87.79 1853927.4605 6289541.7835
Tangential Direction: N 0° 31'04" E
Tangential Length: 32.09

Element: Linear
STA (263)A 284+87.79 1853927.4605 6289541.7835
STA (264)A 284+93.05 1853932.7127 6289541.8095
Tangential Direction: N 0° 16'57" E
Tangential Length: 5.25

Element: Linear
STA (264)A 284+93.05 1853932.7127 6289541.8095
STA (265)A 287+95.14 1854234.8021 6289543.2997
Tangential Direction: N 0° 16'57" E
Tangential Length: 302.09

Element: Linear
STA (265)A 287+95.14 1854234.8021 6289543.2997
STA (266)A 291+31.38 1854571.0345 6289544.9583
Tangential Direction: N 0° 16'57" E
Tangential Length: 336.24

Element: Linear
STA (266)A 291+31.38 1854571.0345 6289544.9583
STA (267)A 291+53.84 1854593.4994 6289545.0691
Tangential Direction: N 0° 16'57" E
Tangential Length: 22.47

Element: Linear
STA (267)A 291+53.84 1854593.4994 6289545.0691
STA (268)A 291+79.47 1854619.1269 6289545.1955
Tangential Direction: N 0° 16'57" E
Tangential Length: 25.63

Element: Linear
STA (268)A 291+79.47 1854619.1269 6289545.1955
STA (269)A 292+31.93 1854618.4114 6289597.6540
Tangential Direction: S 89° 13'07" E
Tangential Length: 52.46

Element: Linear
STA (269)A 292+31.93 1854618.4114 6289597.6540
STA (270)A 293+57.48 1854590.3259 6289720.0163
Tangential Direction: S 77° 04'23" E
Tangential Length: 125.54

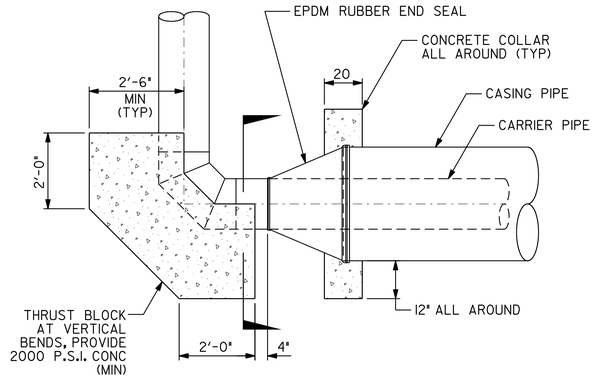
Element: Linear
STA (270)A 293+57.48 1854590.3259 6289720.0163
STA (271)A 293+67.02 1854590.2803 6289729.5555
Tangential Direction: S 89° 43'34" E
Tangential Length: 9.54

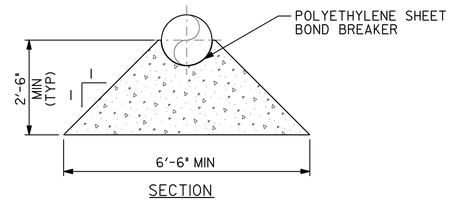
Element: Linear
STA (271)A 293+67.02 1854590.2803 6289729.5555
STA (272)A 293+87.02 1854570.2811 6289729.3713
Tangential Direction: S 0° 31'40" W
Tangential Length: 20.00

****

ALIGNMENT NAME: PIPELINE C

Element: Linear
STA (178) 0+00.00 1852543.1245 6285044.5433
STA (300) 2+10.00 1852333.1247 6285043.5023
Tangential Direction: S 0° 17'02" W
Tangential Length: 210.00





SECTION

VERTICAL BEND SUPPORT

DETAIL	1
NO SCALE	C-14
	C-15

HORIZONTAL ALIGNMENT COORDINATE INDEX REPORT 3 AND MISCELLANEOUS DETAILS

C-40

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

HORIZONTAL ALIGNMENT
COORDINATE INDEX REPORT 3
AND MISCELLANEOUS DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 43 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
SUBMITTED BY: F. Michael Bagoua, PROJECT MANAGER
APPROVED BY: Francisco Mendoza, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

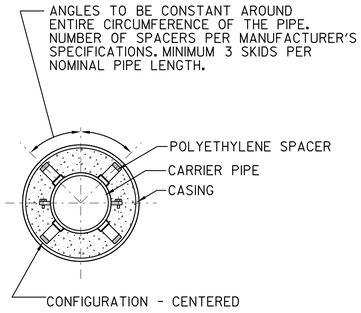
36656-43-D

Brown AND Caldwell

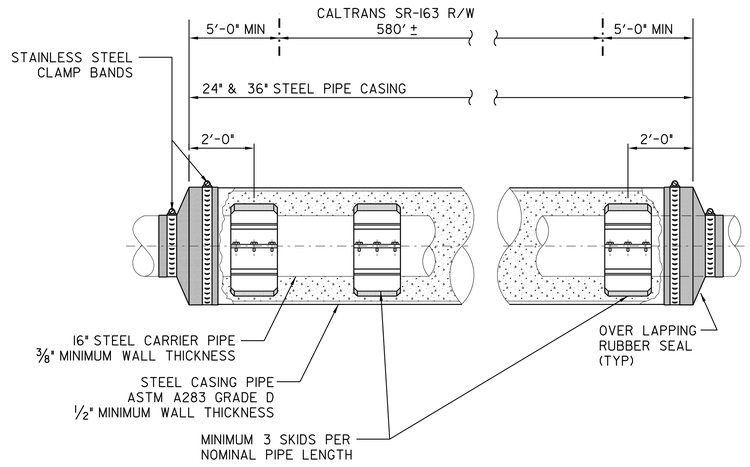
REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WARREN — No. C45272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C40.dgn
18-JUL-2014 15:29 therencia



CROSS-SECTION

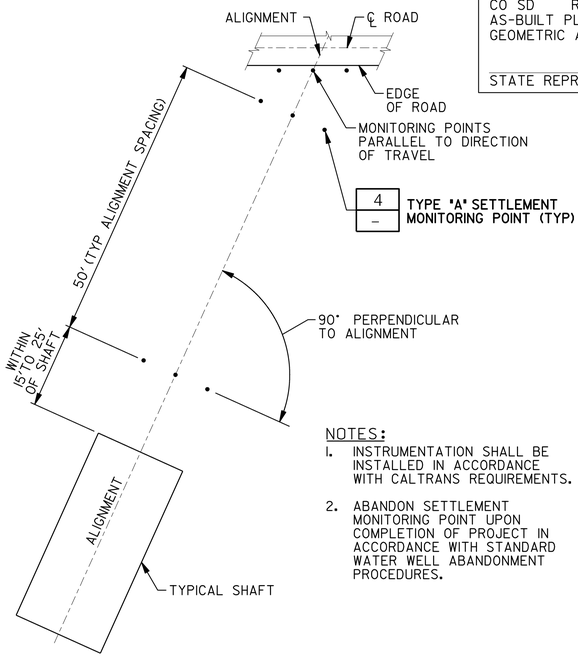


NOTES

1. ALL 16" DIAMETER STEEL CARRIER PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 REQUIREMENTS. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
2. STEEL PIPE CASING SHALL BE ASTM A283 GRADE D.
3. INTERIOR OF CASING PIPE SHALL BE GROUND SMOOTH AND LUBRICATED FOR SPACER INSTALLATION.
4. CASING PIPE TO BE SUPPLIED IN NOMINAL CONTINUOUS 20-FOOT LENGTHS. JOINTS TO BE SINGLE WELDED, FULL CIRCUMFERENCE. DEVIATIONS TO BE APPROVED BY OWNER'S REPRESENTATIVE.
5. 16" DIAMETER STEEL PIPE SHALL BE CEMENT MORTAR LINED AND COATED AND TAPE WRAPPED PER CITY SUPPLEMENT SECTION 207-10.4.7 REQUIREMENTS.
6. CASING SPACER SHALL BE NON-METALLIC HIGH-DENSITY POLYETHYLENE MEETING ISO 9002 STANDARDS.
7. SEE DETAILS 3, 4 AND 5 ON SHEET 47 FOR WELDED JOINTS.
8. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
9. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

CASING ASSEMBLY DETAIL

DETAIL	1
SCALE: 1" = 1'-0"	C-14
	C-15



NOTES:

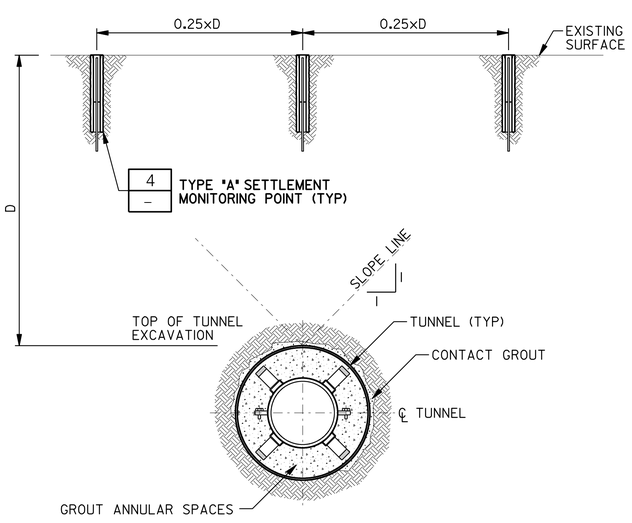
1. INSTRUMENTATION SHALL BE INSTALLED IN ACCORDANCE WITH CALTRANS REQUIREMENTS.
2. ABANDON SETTLEMENT MONITORING POINT UPON COMPLETION OF PROJECT IN ACCORDANCE WITH STANDARD WATER WELL ABANDONMENT PROCEDURES.

TYPE "A" SURFACE MONITORING POINT PLAN

DETAIL	2
	–

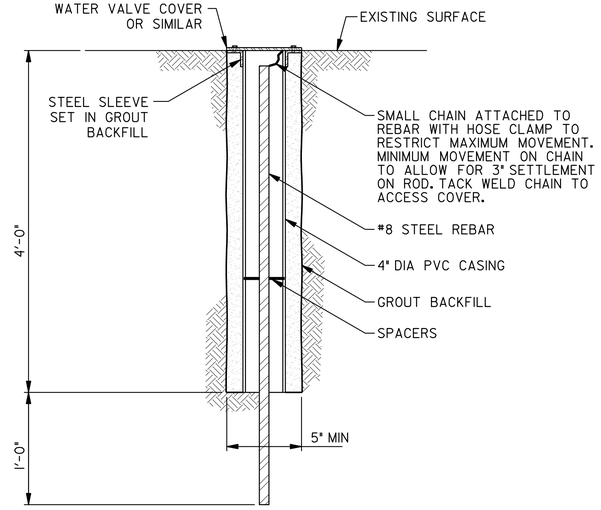
PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



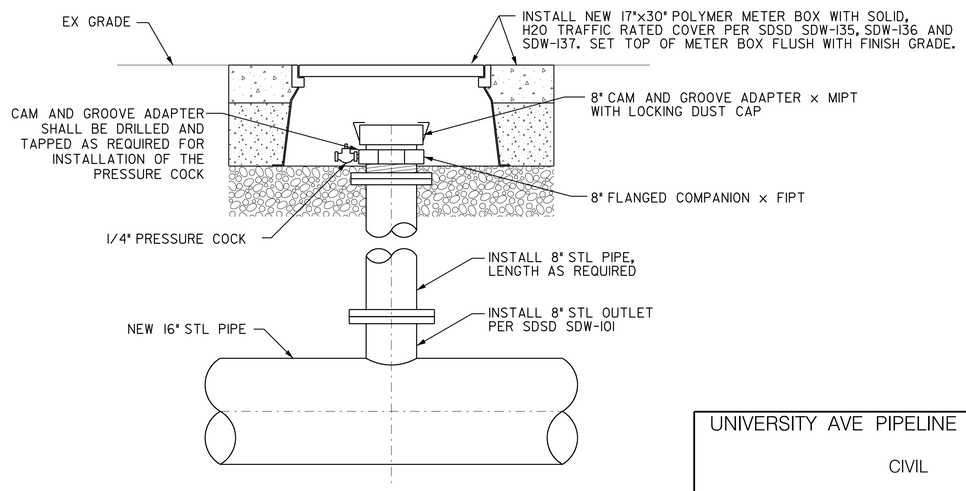
TYPE "A" SURFACE MONITORING PLACEMENT

DETAIL	2
SCALE: NONE	–



TYPE "A" SETTLEMENT MONITORING POINT

DETAIL	4
SCALE: NONE	–



BLOW-OFF PUMPING CONNECTION

DETAIL	5
SCALE: NONE	C-14
	C-15

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ARTHUR JUDSON WATSON III No. C45272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

MISCELLANEOUS DETAILS 1

C-41

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

MISCELLANEOUS DETAILS 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 44 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) 6-9-2014 DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

WATER WBS S-11021
SEWER WBS N/A

SUBMITTED BY: F. Michael Bafous PROJECT MANAGER

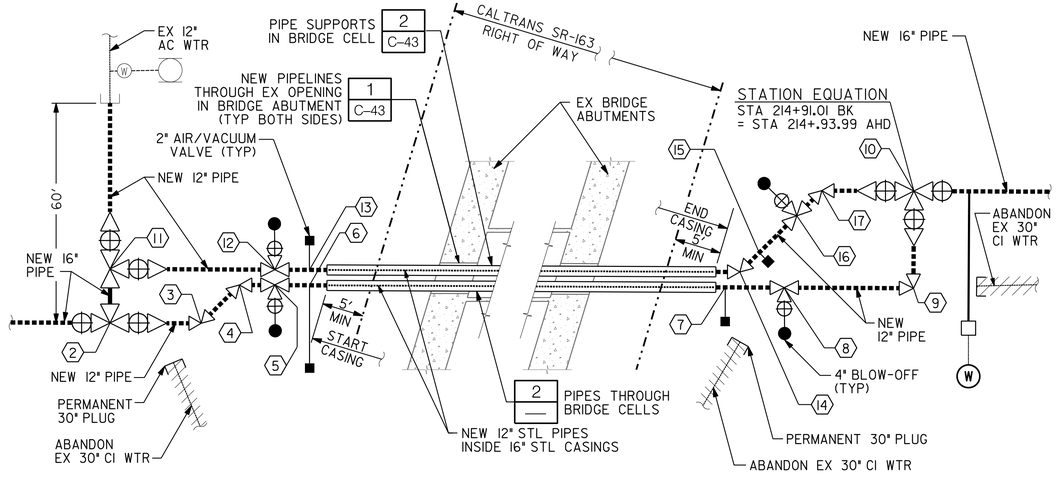
PROJECT ENGINEER

VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

36656-44-D

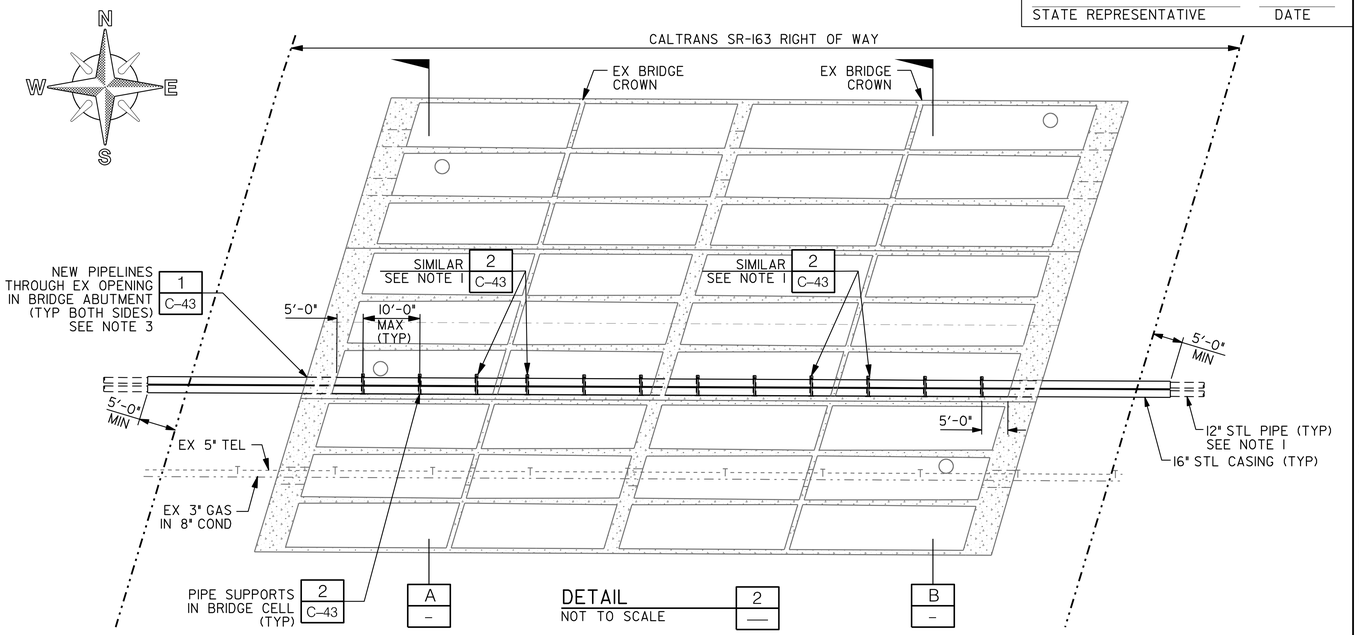
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C41.dgn
18-JUL-2014 15:31 therencia



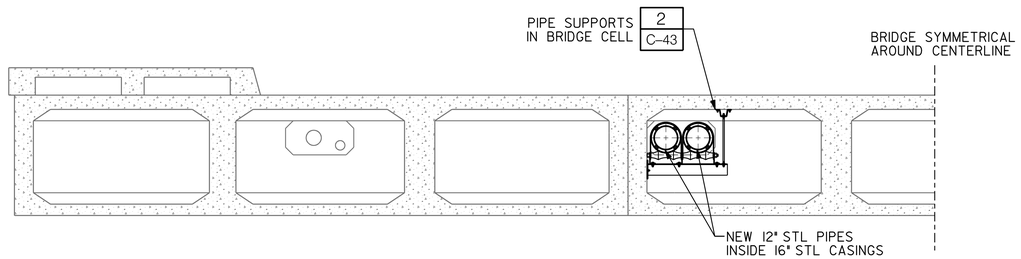
SR-163 BRIDGE CROSSING AT UNIVERSITY AVE

DETAIL 1 / NTS C-23

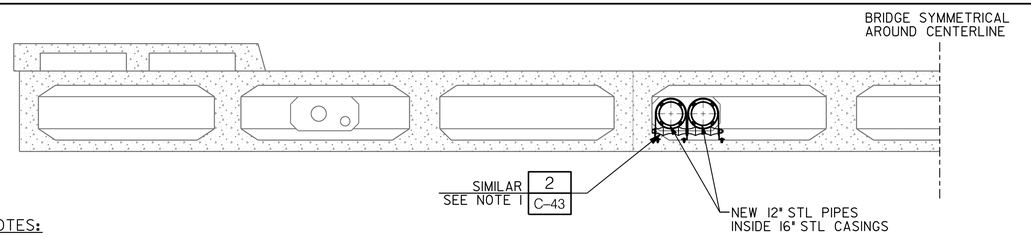
NOTE:
(2) FOR CONSTRUCTION NOTE INFORMATION SEE SHT 26



DETAIL 2 / NOT TO SCALE



SECTION AT BRIDGE ABUTMENT A / NOT TO SCALE



NOTES:

1. PROVIDE ROLLERS, CLAMPS AND ATTACHMENT ANGLES DIRECTLY CONNECTED TO BRIDGE BOTTOM DECK. ADJUST LENGTH AS REQUIRED

SECTION NEAR BRIDGE CROWN B / NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL PROVIDE FLANGED FORCE-BALABNCED FLEX-TEND FLEXIBLE EXPANSION JOINTS, EBAA IRON MODEL 4412520B OR APPROVED EQUAL, ON BOTH SIDES OF BRIDGE CROSSING ON EACH OF THE 12" STEEL PIPES
2. EX 5-INCH FIBER OPTIC CONDUIT AND CABLE LOCATED IN EX UTILITY CELL THROUGH BRIDGE ABUTMENTS SHALL BE RELOCATED TO ADJACENT UTILITY CELL BY A VERIZON APPROVED SUB-CONTRACTOR PRIOR TO START OF CONSTRUCTION THROUGH PRE-NEGOTIATED WORK PACKAGE IDENTIFIED AS A BID ITEM IN THE BID SCHEDULE.
3. REMOVE EXISTING BRIDGE FORMWORK LEFT IN PLACE AS REQUIRED FOR PIPELINE INSTALLATION.
4. 12" DIAMETER STEEL PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 MATERIAL REQUIREMENTS AND SHALL HAVE SHOP APPLIED EPOXY LINING AND COATING PER AWWA C210 REQUIREMENTS.
5. 16" DIAMETER CASING SHALL BE STEEL PIPE ASTM A283 GRADE D.
6. WELDED JOINTS FOR 12" STEEL PIPE AND 16" STEEL CASING PIPE SHALL BE PER AWWA C210 AND C206 REQUIREMENTS. INTERIOR JOINT OF STEEL PIPE LINING SHALL BE REPAIRED PER AWWA C210 REQUIREMENTS.
7. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
8. CASING SPACER MATERIAL SHALL BE NON-METALLIC HIGH DENSITY POLYETHYLENE MEETING ISO 9002 STANDARDS.
9. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON WARD No. C43272 Exp. 06-31-18 CIVIL STATE OF CALIFORNIA
06/09/2014

C-42

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

MISCELLANEOUS DETAILS 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 45 OF 86 SHEETS

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014
DESIGNED BY F. Michael Bafouna PROJECT MANAGER
CHECKED BY Thanina Rahim PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

WATER WBS S-11021
SEWER WBS N/A
VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE
36656-45-D

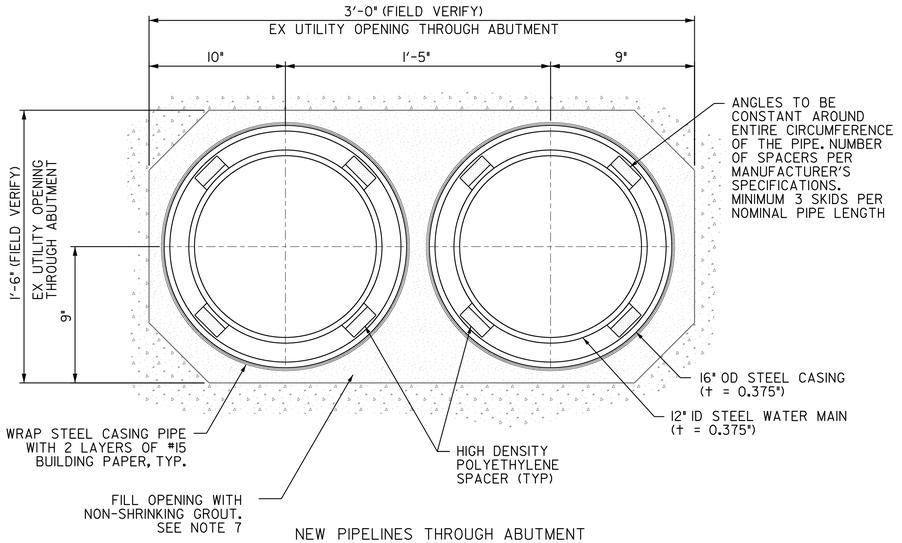
MISCELLANEOUS DETAILS 2

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C42.dgn
18-JUL-2014 15:31 therencia

NOTES:

1. REMOVE EXISTING BRIDGE FORMWORK LEFT IN PLACE AS REQUIRED FOR PIPELINE INSTALLATION.
2. 12" DIAMETER STEEL PIPE SHALL CONFORM TO GREENBOOK SECTION 207-10 AND AWWA C200 MATERIAL REQUIREMENTS AND SHALL HAVE SHOP APPLIED EPOXY LINING AND COATING PER AWWA C210 REQUIREMENTS.
3. 16" DIAMETER CASING SHALL BE STEEL PIPE ASTM A283 GRADE D.
4. WELDED JOINTS FOR 12" STEEL PIPE AND 16" STEEL CASING PIPE SHALL BE PER AWWA C210 AND C206 REQUIREMENTS. INTERIOR JOINT OF STEEL PIPE LINING SHALL BE REPAIRED PER AWWA C210 REQUIREMENTS.
5. VIDEOTAPE INSPECTION OF REPAIRED WELDED JOINTS SHALL BE AT THE COST OF THE CONTRACTOR.
6. CASING SPACER MATERIAL SHALL BE NON-METALLIC HIGH DENSITY POLYETHYLENE MEETING ISO 9002 STANDARDS.
7. NON-SHRINK GROUT SHALL BE FIVE STAR PRODUCTS, FIVE STAR GROUT; BASF MASTERFLOW 928; OR APPROVED EQUAL.
8. SEE SHEETS 80 THROUGH 82 FOR CATHODIC PROTECTION PLANS AND DETAILS.

NOTE:
WEIGHT OF 12" DIA WATER MAIN, 16" DIA CASING AND CONTENTS = 120 LBS/FT

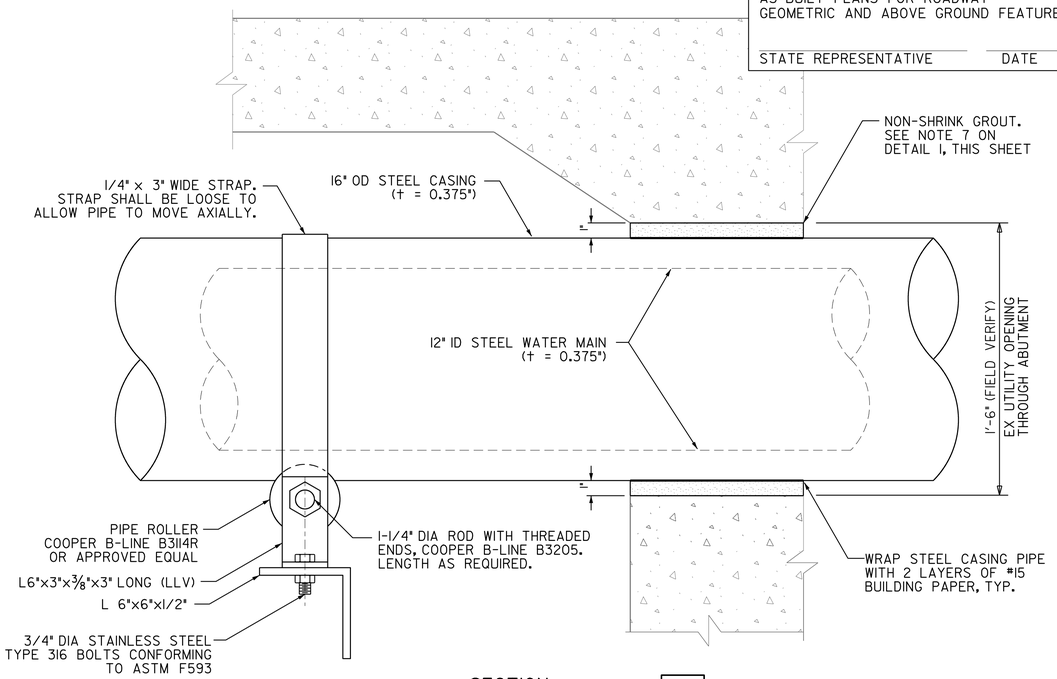


NEW PIPELINES THROUGH ABUTMENT
LOOKING WEST

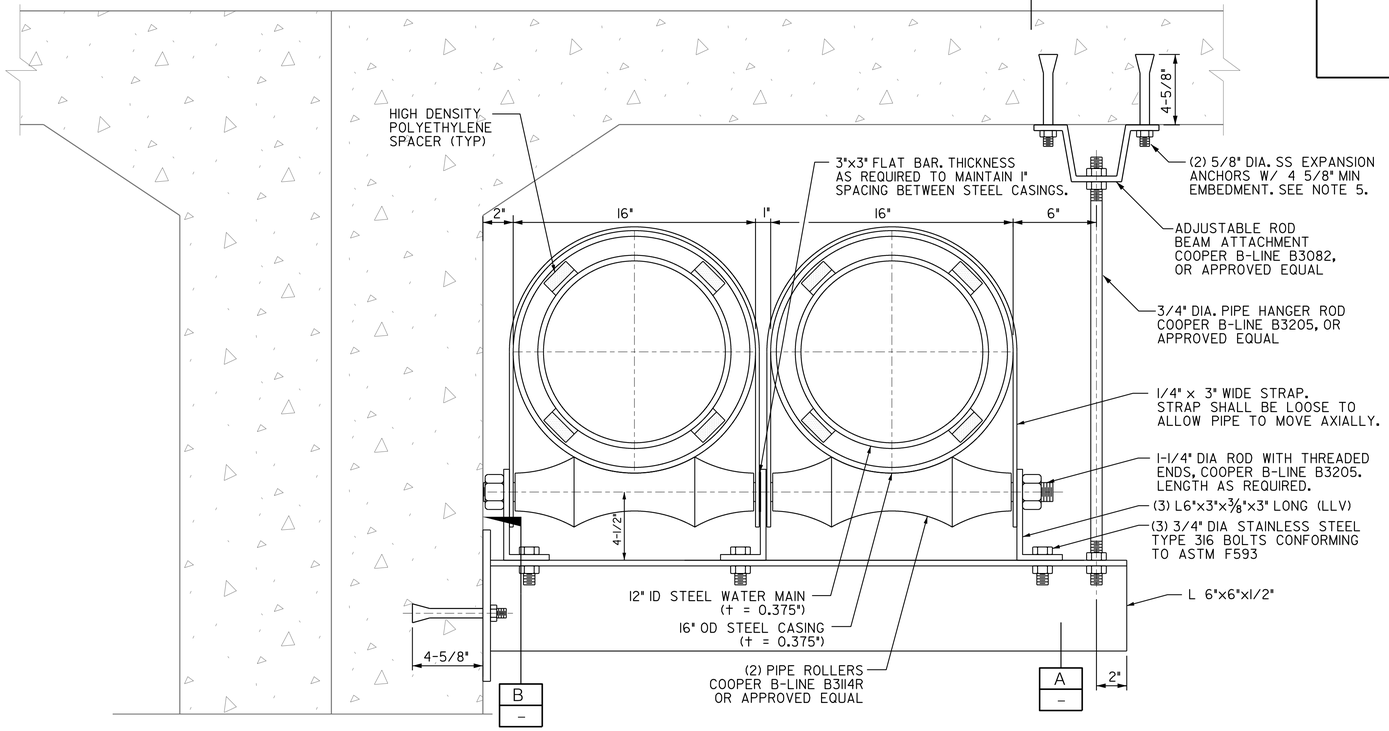
DETAIL 1
SCALE: 1/2" = 1'-0" VAR

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SECTION A
NO SCALE

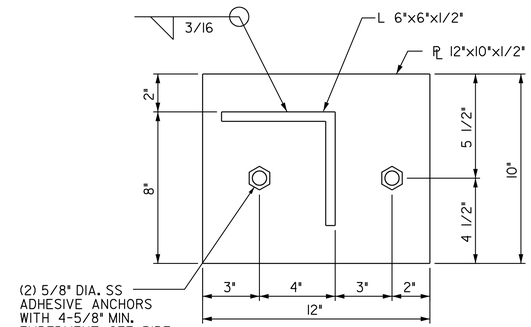


NEW PIPE SUPPORTS IN BRIDGE CELL
LOOKING WEST

DETAIL 2
SCALE: 1/2" = 1'-0" VAR

PIPE SUPPORT NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO PIPE SUPPORT FABRICATION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OCCURRING ON THE DRAWINGS OR FOUND ON HIS COORDINATION WORK.
2. CONTRACTOR SHALL LOCATE ALL EXISTING REINFORCING STEEL USING NON-DESTRUCTIVE SCANNING METHODS PRIOR TO DRILLING HOLES IN EXISTING CONCRETE FOR NEW ANCHORS BOLTS. LOCATION OF ANCHOR BOLTS SHALL BE ADJUSTED TO AVOID CUTTING EXISTING REINFORCING STEEL.
3. PIPE SUPPORTS SHALL BE SPACED AT 10-FEET MAXIMUM AND ONE SUPPORT SHALL BE INSTALLED AT 5 FEET MAXIMUM FROM EACH BRIDGE ABUTMENT OR BENT.
4. STEEL ANGLES AND PLATES SHALL CONFORM TO ASTM A36 STANDARDS.
5. EXPANSION ANCHORS SHALL BE STRONG-TIE TYPE 316 STAINLESS STEEL, STRONG BOLT 2.
6. PIPE SUPPORT ATTACHMENTS AND APPURTENANCES SHOWN IN THE DETAIL ARE COOPER B-LINE PRODUCTS. EQUAL PRODUCTS SHALL CONFORM TO THE ANSI/MSS SP-58 MANUFACTURERS STANDARDIZATION SOCIETY: PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN AND MANUFACTURE.
7. ALL METALS, WITH THE EXCEPTION OF THE ANCHOR BOLTS, SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND ASTM A153.



SECTION B
NO SCALE

C-43

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

MISCELLANEOUS DETAILS 3

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 46 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DESIGNED BY: F. Michael Bafouna — PROJECT MANAGER
CHECKED BY: Francisco Rocha — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES — CCS27 COORDINATE
VARIES — CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

36656-46-D

Brown AND Caldwell

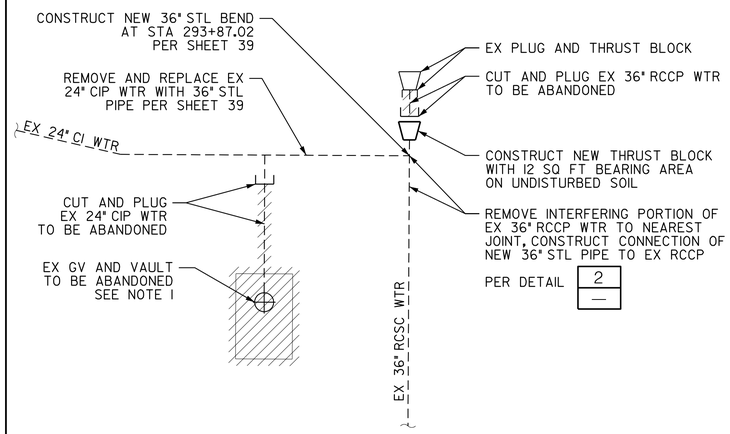
REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WARREN — No. C45272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

MISCELLANEOUS DETAILS 3

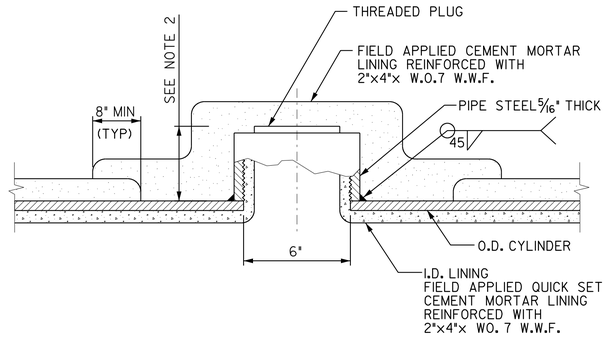
NOTE:

1. EXISTING 24" GATE VALVE AND VAULT SHOWN ON RECORD DRAWING 307-W NOT FOUND ON SURVEY. CONTRACTOR TO FIELD VERIFY LOCATION.



NEW STEEL PIPE TO EXISTING RCCP

DETAIL 1 — NO SCALE C-36

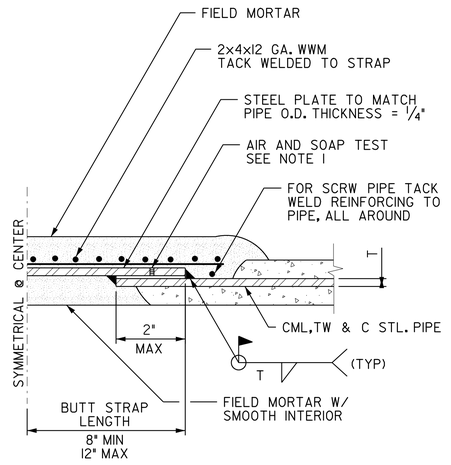


NOTES:

1. REFER TO BUTT STRAP CLOSURE DETAIL 4, THIS SHEET FOR BUTT STRAP INSTALLATION.
2. LENGTH OF THE STUB SHOULD BE THE SHORTEST POSSIBLE.
3. FIELD WELDING SHALL BE PER AWWA C-206. ALL WELDS SHALL HAVE EQUAL LEG DIMENSIONS AND MINIMUM THROAT IS EQUAL TO 0.0707 x LEG DIMENSION.
4. PIPE MATERIAL SHALL BE PER AWWA C-200.
5. ALL UNCOATED SURFACES, INCLUDING BOLTS AND NUTS, SHALL BE MORTAR COATED AND LINED PER AWWA C-205 OR C-602, WHICHEVER IS APPLICABLE. FOR DIELECTRIC MORTAR COATED PIPE, APPLY TO THE EXTERIOR SURFACE OF THE BURIED HANDHOLE COATING PER AWWA C-217.
6. SIZE AND NUMBER OF HAND HOLES SHALL BE APPROVED BY THE CITY.

BLIND FLANGE CLOSURE

DETAIL 3 — NO SCALE VAR

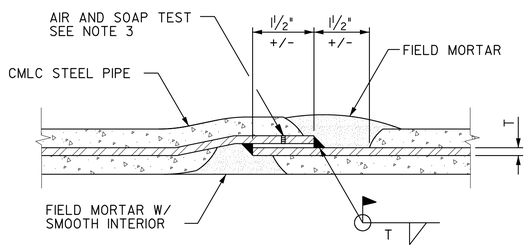


NOTE:

1. BEFORE WELDING, DRILL AND TAP 4-1/4" DIA EQUALLY SPACED HOLES FOR AIR-SOAP TEST. CONTRACTOR TO PLUG HOLES BY WELDING AFTER SUCCESSFUL COMPLETION OF TESTS.

BUTT STRAP CLOSURE

DETAIL 4 — NO SCALE VAR

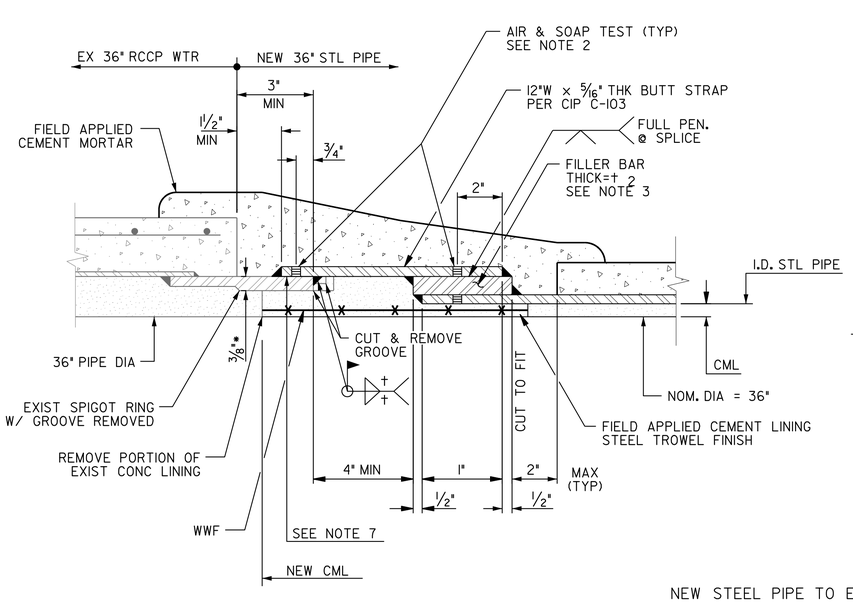


NOTES:

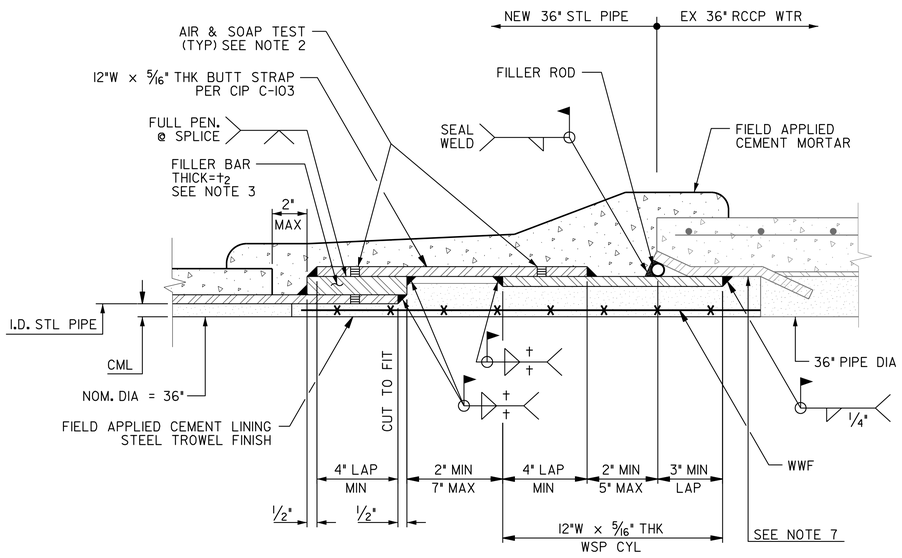
1. FOR PIPE 30" AND LARGER, PROVIDE WELD INSIDE PIPE.
2. FOR PIPE SMALLER THAN 30" DO NOT PROVIDE WELD INSIDE PIPE.
3. BEFORE WELDING, DRILL AND TAP 4-1"4" DIA EQUALLY SPACED HOLES FOR AIR-SOAP TEST. CONTRACTOR TO PLUG HOLES BY WELDING AFTER SUCCESSFUL COMPLETION OF TESTS.

STEEL PIPE JOINT

DETAIL 5 — NO SCALE VAR



CONNECTION TO EXISTING RCCP SPIGOT



CONNECTION TO EXISTING RCCP BELL

NEW STEEL PIPE TO EXISTING RCCP

DETAIL 2 — NO SCALE —

CONNECTION NOTES:

1. 12" LENGTH OF BUTT STRAP FOR FIELD CLOSING SECTION. BUTT STRAPS TO BE FURNISHED IN TWO PIECES AND SHIPPED LOOSE FOR FILED JOINING. t = 5/16"
2. BEFORE WELDING, DRILL AND TAP 4-1/4" DIA EQUALLY SPACED HOLES FOR AIR-SOAP TEST. CONTRACTOR TO PLUG HOLES BY WELDING AFTER SUCCESSFUL COMPLETION OF TESTS.
3. t = INDICATED OFFSET OR NEW PIPE O.D. TO MATCH EXISTING PIPE JOINT. USE FILLER BARS TO FIELD FIT.
4. SURFACES TO BE WELDED SHALL BE CLEANED BY WIRE BRUSHING PRIOR TO WELDING.
5. CONTRACTOR TO REMOVE LINING, CUT OFF GROOVE, AND GRIND ENDS SMOOTH PRIOR TO WELDING.
6. BEVEL ENDS OF BACKING PLATE AT BUTT STRAP PRIOR TO WELDING OR BACK GOUGE AT CONTACT WITH ADJACENT CYLINDER PRIOR TO COMPLETING INSIDE FILLET WELD.
7. FIELD VERIFY EXISTING JOINT LOCATION, GEOMETRY, AND DIAMETER BEFORE FABRICATION.
8. WELD LONGITUDINAL WELDS BEFORE GIRTH WELDS.

C-44

MISCELLANEOUS DETAILS 4

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARDLAW NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

MISCELLANEOUS DETAILS 4

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 47 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

SUBMITTED BY: F. Michael Bafous PROJECT MANAGER

APPROVED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

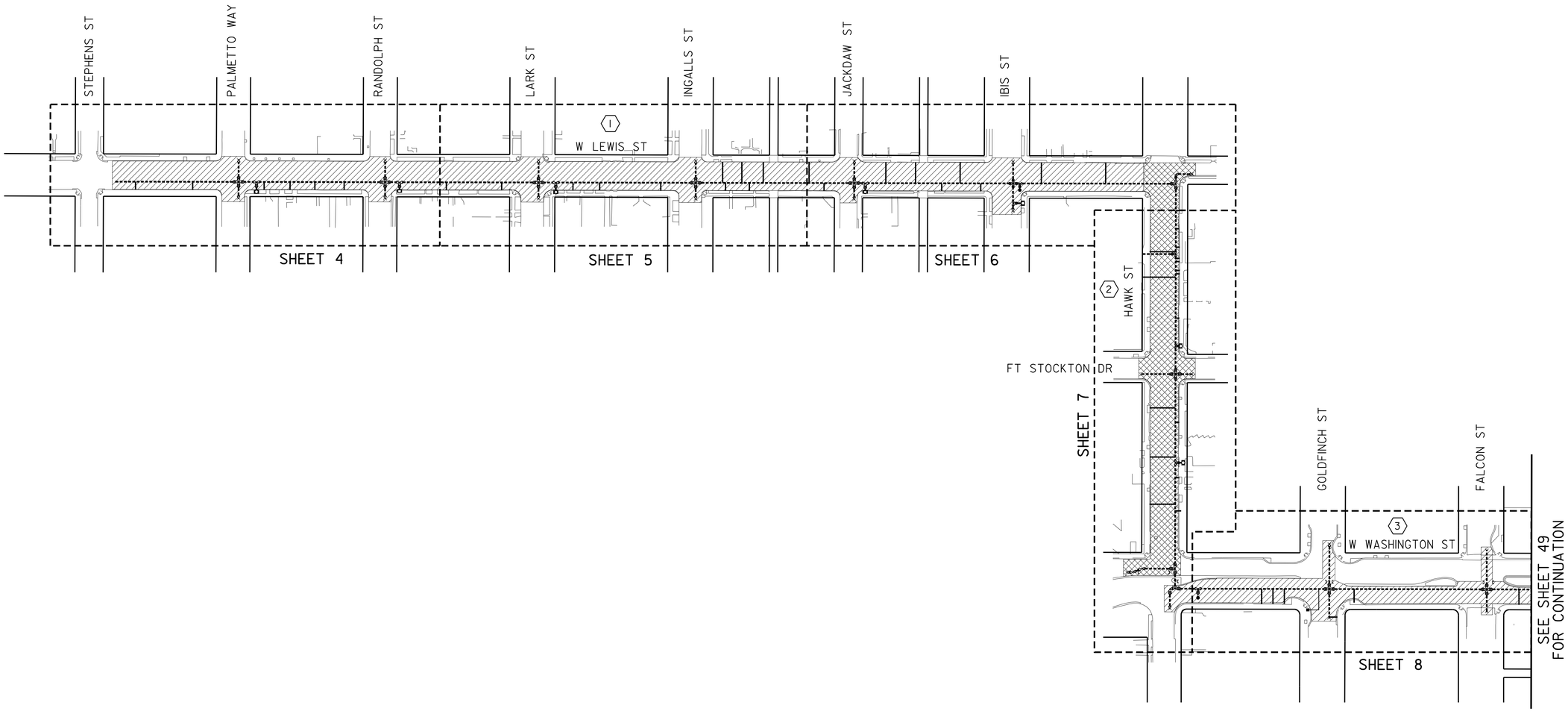
VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-47-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C44.dgn
18-JUL-2014 15:32 therencia



STREET RESURFACING PLAN 1

PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
1	W. LEWIS ST	SLURRY SEAL	00+70	18+96	VARIES	100902.3
2	HAWK ST	AC OVERLAY	18+96	26+46	VARIES	41431.9
3	W. WASHINGTON ST	SLURRY SEAL	26+60	33+00	VARIES	31563.4
				TOTAL AREA OF SLURRY SEAL		132465.7
				TOTAL AREA OF RESURFACE AC		41431.9

LEGEND

- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- 2 — LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-106

N W E S

0 100 200 300

SCALE 1" = 100'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — JEFFREY JUDSON WATSON — NO. CA 32172 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

C-45

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

STREET RESURFACING PLAN 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 48 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — DATE 6-9-2014

DESIGNED BY F. Michael Bagowa PROJECT MANAGER

CHECKED BY Francisco Rodriguez PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

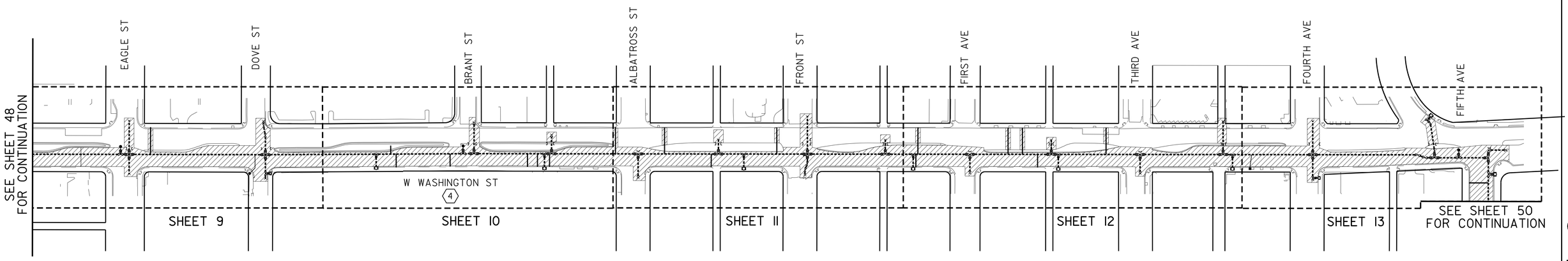
VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-48-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C45.dgn
18-JUL-2014 15:33 therencia



PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
4	W. WASHINGTON ST	SLURRY SEAL	33+00	64+00	VARIES	126688.9
				TOTAL AREA OF SLURRY SEAL		126688.9
				TOTAL AREA OF RESURFACE AC		N/A

LEGEND

- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- 2 — LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-106

N W E S

0 100 200 300

SCALE 1" = 100'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WILLIAMS No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

STREET RESURFACING PLAN 2

C-46

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

STREET RESURFACING PLAN 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 49 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — DATE 5-9-2014
IRAJ ASCHARZADEH
PRINT NAME

DESIGNED BY F. Michael Bafouna PROJECT MANAGER

CHECKED BY PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-49-D

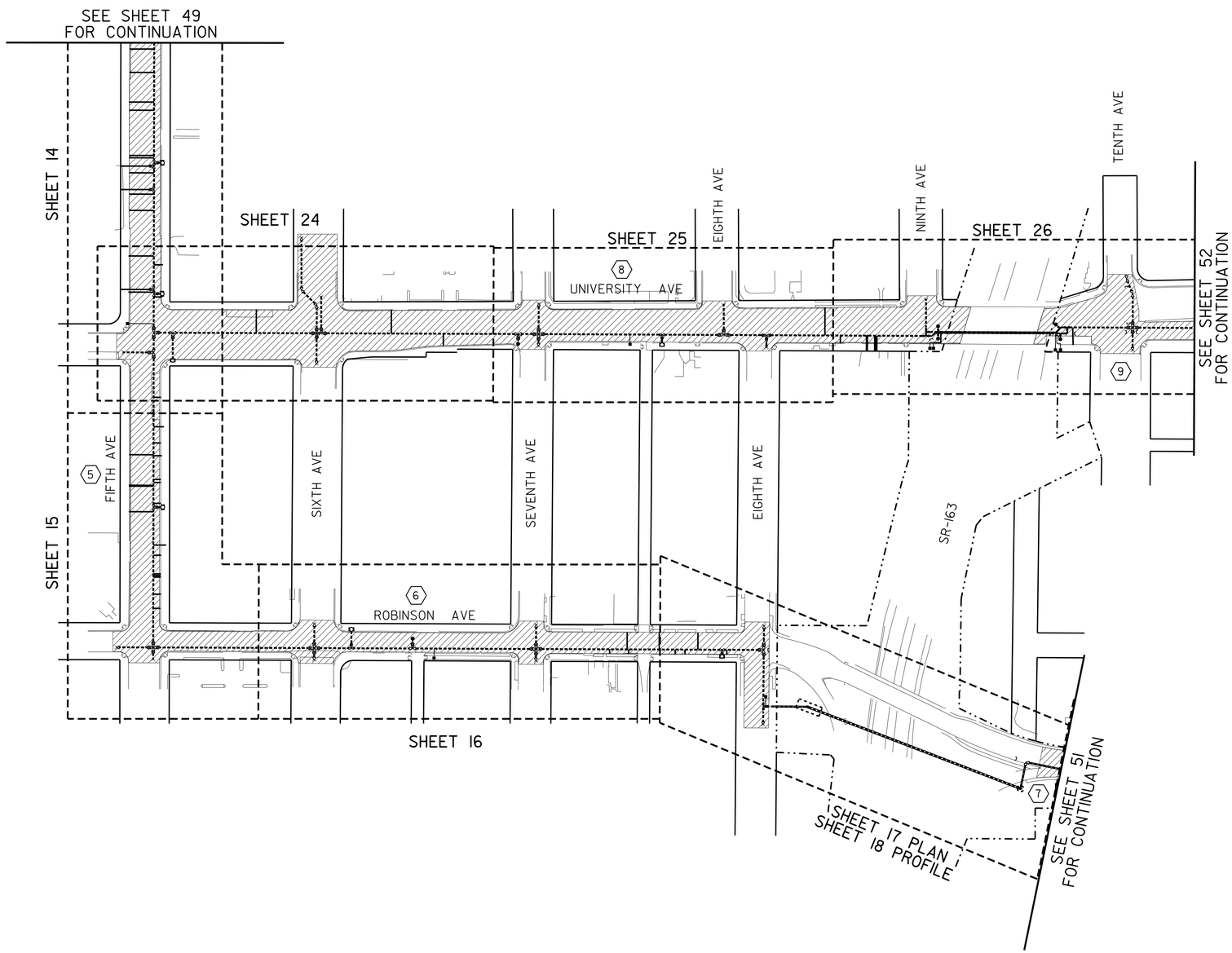
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C46.dgn
18-JUL-2014 15:34 therencia

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
5	FIFTH AVE	SLURRY SEAL	64+00	74+00	VARIES	51365.7
6	ROBINSON AVE	SLURRY SEAL	74+00	84+68	VARIES	42365.2
7	ROBINSON AVE	SLURRY SEAL	89+66	90+00	VARIES	1680.5
8	UNIVERSITY AVE	SLURRY SEAL	200+00	213+12	VARIES	93087.5
9	UNIVERSITY AVE	SLURRY SEAL	214+32	217+00	VARIES	15581.5
				TOTAL AREA OF SLURRY SEAL		204080.4
				TOTAL AREA OF RESURFACE AC		N/A

LEGEND	
	APPROXIMATE LOCATION OF SLURRY SEAL
	APPROX. LIMITS OF RESURFACE AC OVERLAY
2	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
	COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-106

N W E S

0 100 200 300
SCALE 1" = 100'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

STREET RESURFACING PLAN 3

C-47

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

STREET RESURFACING PLAN 3

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 50 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — 6-9-2014 DATE

SUBMITTED BY F. Michael Bafous PROJECT MANAGER

PREPARED BY PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

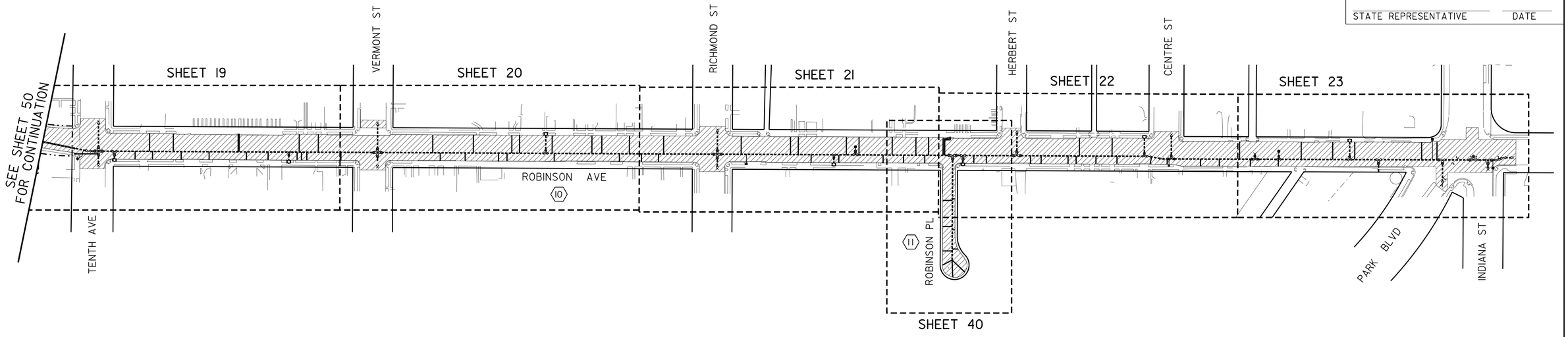
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-50-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C47.dgn
18-JUL-2014 15:34 therencia

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY
GEOMETRIC AND ABOVE GROUND FEATURES

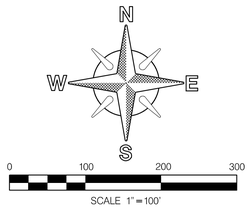
STATE REPRESENTATIVE DATE



PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
10	ROBINSON AVE	SLURRY SEAL	90+00	119+60	VARIES	161281.7
11	ROBINSON PL	SLURRY SEAL	0+00	2+10	VARIES	6677.1
				TOTAL AREA OF SLURRY SEAL		167958.8
				TOTAL AREA OF RESURFACE AC		N/A

LEGEND

- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- (2) LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-106



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WILLIAMS
No. C43272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

STREET RESURFACING PLAN 4

C-48

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

STREET RESURFACING PLAN 4

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 51 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — DATE 6-9-2014
IRAJ ASCHARZADEH
PRINT NAME

DESIGNED BY F. Michael Bafoua PROJECT MANAGER
CHECKED BY Thomas Bodin PROJECT ENGINEER

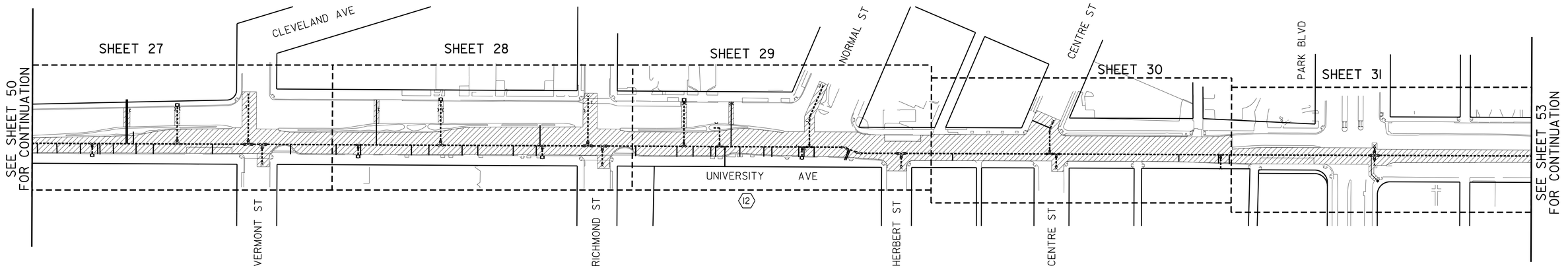
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656- 51 -D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C48.dgn
18-JUL-2014 15:35 therencia



STREET RESURFACING PLAN 5

C-49

PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
12	UNIVERSITY AVE	SLURRY SEAL	217+00	247+00	VARIES	145038.5
				TOTAL AREA OF SLURRY SEAL		145038.5
				TOTAL AREA OF RESURFACE AC		N/A

LEGEND

- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- 2 — LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-106

N W E S

0 100 200 300

SCALE 1" = 100'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WILLIAMS — No. C43272 — Exp. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

STREET RESURFACING PLAN 5

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 52 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — DATE 5-9-2014
IRAJ ASCHARZADEH
PRINT NAME

DESIGNED BY F. Michael Bafoua — PROJECT MANAGER
CHECKED BY Thomas Bodin — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

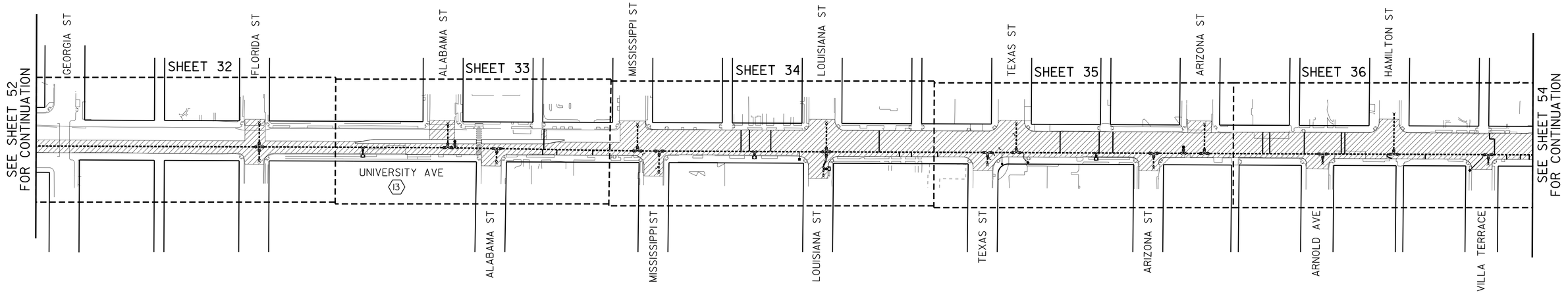
VARIES — CCS27 COORDINATE

VARIES — CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-52-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C49.dgn
18-JUL-2014 15:35 therencia



STREET RESURFACING PLAN 6

PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
13	UNIVERSITY AVE	SLURRY SEAL	247+00	277+00	VARIES	141541.5
				TOTAL AREA OF SLURRY SEAL		141541.5
				TOTAL AREA OF RESURFACE AC		N/A

LEGEND

- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- 2 — LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-106

N W E S

0 100 200 300

SCALE 1" = 100'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WILLIAMS
No. C43272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA

06/09/2014

C-50

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

STREET RESURFACING PLAN 6

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 53 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — DATE 6-9-2014
IRAJ ASCHARZADEH
PRINT NAME

DESIGNED BY F. Michael Bafoua
PROJECT MANAGER

CHECKED BY Thomas Bodin
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

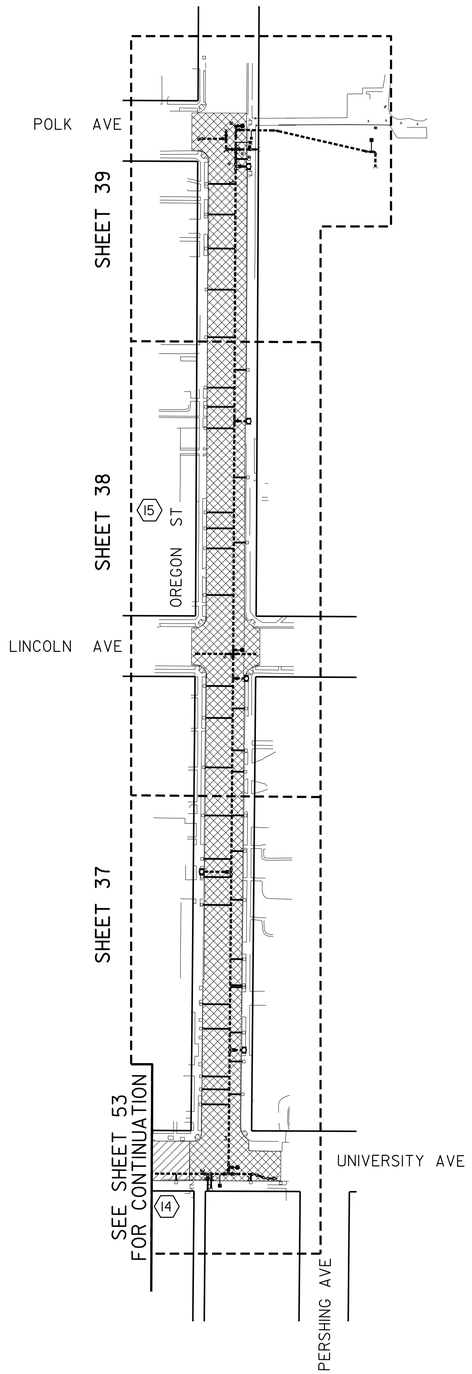
VARIES
CCS27 COORDINATE

VARIES
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-53-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C50.dgn
18-JUL-2014 15:36 therencia



PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
14	UNIVERSITY AVE	SLURRY SEAL	277+00	277+50	VARIES	2600.0
15	OREGON ST	AC OVERLAY	277+50	292+00	VARIES	77689.5
				TOTAL AREA OF SLURRY SEAL		2600.0
				TOTAL AREA OF RESURFACE AC		77689.5

LEGEND	
	APPROXIMATE LOCATION OF SLURRY SEAL
	APPROX. LIMITS OF RESURFACE AC OVERLAY
2	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
	COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-106

N W E S

0 100 200 300

SCALE 1" = 100'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JEFFREY JUDSON WARREN No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

STREET RESURFACING PLAN 7

C-51

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

STREET RESURFACING PLAN 7

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 54 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — DATE 6-9-2014

DESIGNED BY F. Michael Bagowa PROJECT MANAGER

CHECKED BY Francisco Rodriguez PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

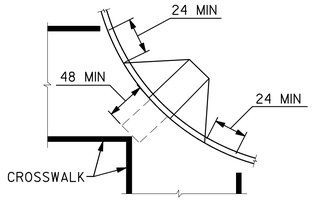
VARIES CCS27 COORDINATE

VARIES CCS83 COORDINATE

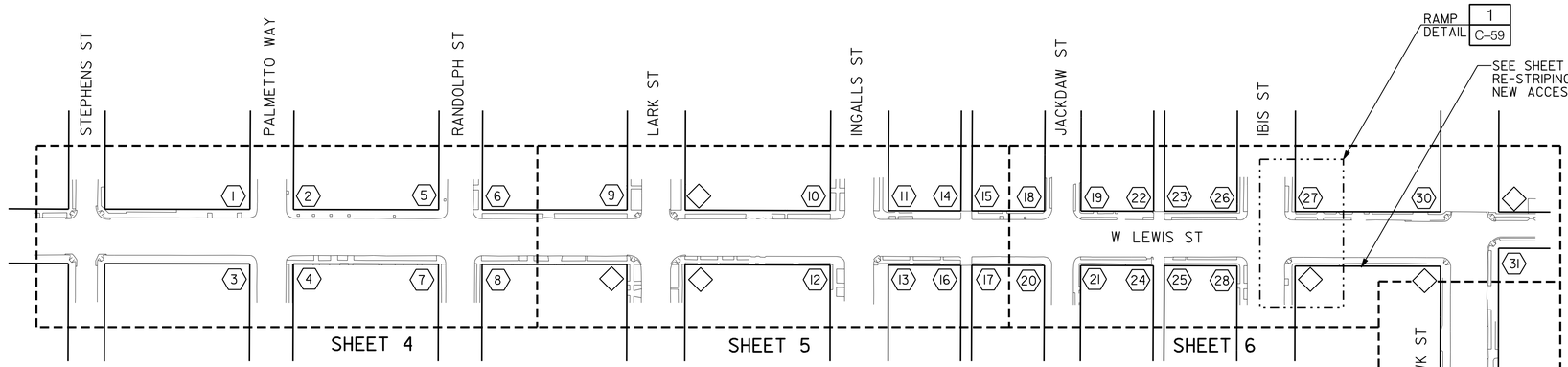
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

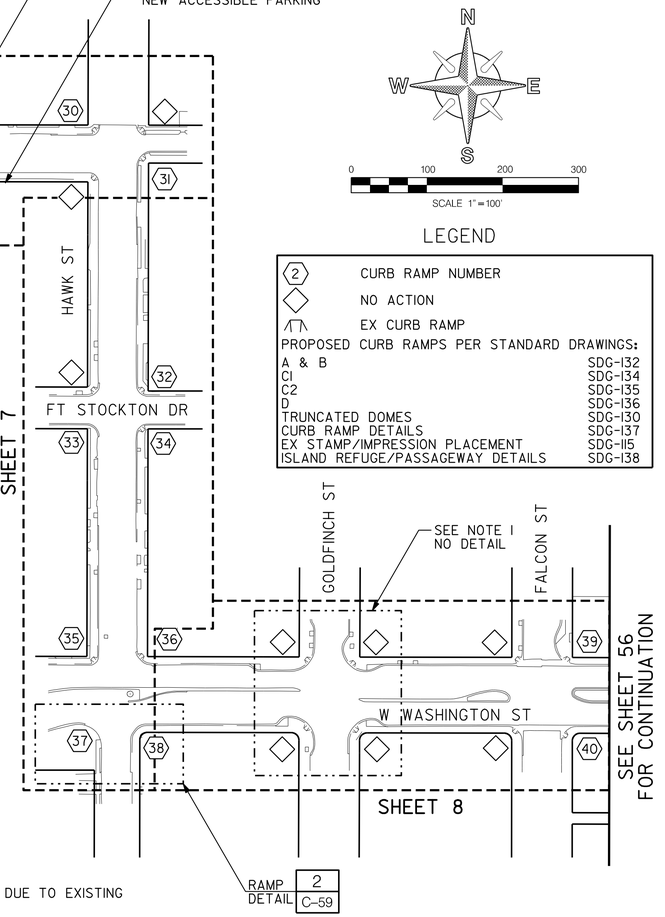
36656-54-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C51.dgn
18-JUL-2014 15:36 therencia



DIAGONAL OR CORNER TYPE CURB RAMPS





NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

LEGEND

⟨2⟩	CURB RAMP NUMBER
◇	NO ACTION
	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
CI	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138

CURB RAMP NOTES TABLE

⟨ ⟩ LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
1	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
2	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
3	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
4	C	X				X		CASE C BLENDED TRANSITION PER SDG-130, SHEET 2 OF 5
5	A	X			X			SEE NOTES 2, 3, AND 8
6	A	X			X			SEE NOTES 2, 3, AND 8
7	A	X			X			SEE NOTES 2, 3, AND 8
8	A	X			X			SEE NOTES 2, 3, AND 8
9	A		X		X			SEE NOTE 8
10	A	X			X			SEE NOTE 8
11	A	X			X			
12	A	X			X			
13	A		X		X			
14	D	X			X			
15	D	X			X			
16	D	X			X			
17	D	X			X			
18	A	X			X			PATCH AND REPAIR DAMAGED ROAD AROUND CURB RAMP
19	A	X			X			PATCH AND REPAIR DAMAGED ROAD AROUND CURB RAMP
20	A	X			X			
21	A	X			X			
22	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
23	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
24	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
25	D	X			X			PATCH AND REPAIR DAMAGE ALONG ALLEY APRON
26	A	X			X			
27	A	X			X			SEE NOTE 2 AND DETAIL 1, SHT C-59
28	A	X			X			
29								NOT USED
30	A		X		X			
31	A		X		X			
32	A		X		X			
33	CI		X		X			SEE NOTES 4 AND 10
34	C2		X		X			
35	A		X		X			SEE NOTE 9
36	A		X		X			
37	D		X		X			SEE NOTE 5 AND DETAIL 2, SHT C-59
38	C2		X		X			SEE DETAIL 2, SHT C-59
39	A		X		X			RE-STRIPE ENTIRE INTERSECTION. SEE NOTES 1, 6, AND 7
40	A		X		X			RE-STRIPE ENTIRE INTERSECTION. SEE NOTES 1, 6, AND 7

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. CHECK HEIGHT OF 25 MPH SIGN. MUST BE 6'-8". IF NOT, RAISE.
10. CONTRACTOR SHALL INSTALL PEDESTRIAN RAILING BARRICADE PER SDE-103 BEHIND RETAINING CURB. DO NOT INSTALL R49 SIGN ON CHAIN.

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER.

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

Brown AND Caldwell

06/09/2014

C-52

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 55 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH — DATE 6-9-2014
SUBMITTED BY: F. Michael Bagoua — PROJECT MANAGER
PREPARED BY: Francis Boada — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

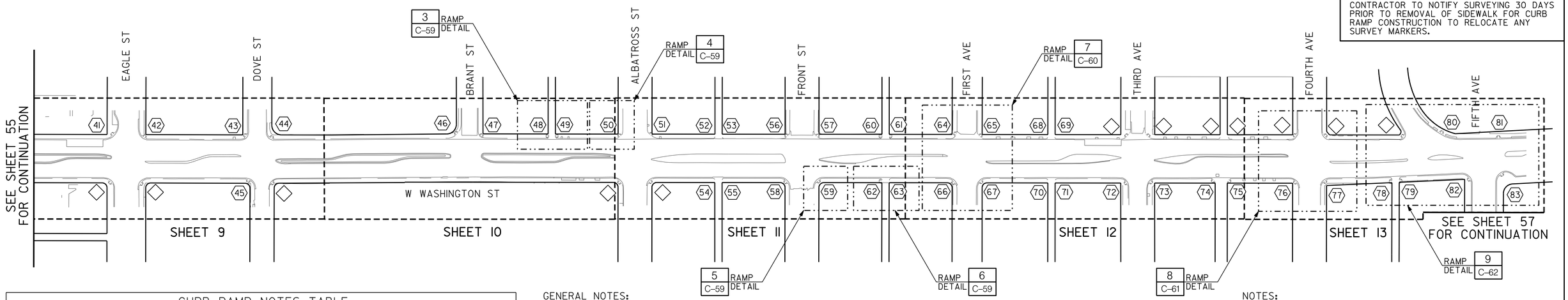
36656-55-D

CURB RAMP PLAN 1

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C52.dgn
18-JUL-2014 15:37 therencia

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
41	A		X		X			
42	CI		X		X			
43	A		X		X			
44	A		X		X			RE-STRIPE INTERSECTION FROM NE CORNER TO SE CORNER, SEE NOTE 1
45	A		X		X			
46	D		X		X			
47	D		X		X			
48	D		X		X			SEE NOTE 7 AND DETAIL 3, SHT C-59
49	D		X		X			SEE NOTE 7 AND DETAIL 3, SHT C-59
50	CI		X		X			SEE NOTE 5 AND DETAIL 4, SHT C-59
51	A		X		X			
52	D		X		X			
53	D		X		X			
54	D		X		X			
55	D		X		X			
56	CI		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTES 1 AND 4
57	A		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTE 1
58	A		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTE 1
59	A		X		X			REMOVE RAISED MEDIAN AT CROSSWALK - SEE NOTE 1 AND DETAIL 5, SHT 59
60	D		X		X			
61	D		X		X			
62	D		X		X			SEE DETAIL 6, SHT C-59
63	D		X		X			SEE DETAIL 6 SHT C-59
64	B		X		X			SEE NOTE 1 AND DETAIL 7, SHT C-60
65	A		X		X			SEE NOTES 1, 7, AND DETAIL 7, SHT C-60
66	CI		X		X			SEE NOTES 1, 3, AND DETAIL 7, SHT C-60
67	A		X		X			SEE NOTE 1 AND DETAIL 7, SHT C-60
68	D		X		X			
69	D		X		X			
70	D		X		X			
71	D		X		X			
72	A		X		X			
73	A		X		X			
74	D		X		X			
75	D		X		X			
76	A		X		X			SEE NOTES 1, 3, AND DETAIL 8, SHT C-61
77	CI		X		X			SEE NOTE 1 AND DETAIL 8, SHT C-61
78	D		X		X			SEE DETAIL 9, SHT C-62
79	D		X		X			SEE DETAIL 9, SHT C-62
80	A		X		X			SEE NOTES 1, 5, AND DETAIL 9, SHT C-62
81	C2		X		X			SEE NOTE 1 AND DETAIL 9, SHT C-62
82	D		X		X			SEE NOTES 1, 5, 8, AND DETAIL 9, SHT C-62
83	A		X		X			TWO-RAMP CORNER - SEE NOTES 1, 8, AND DETAIL 9, SHT C-62

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER.

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

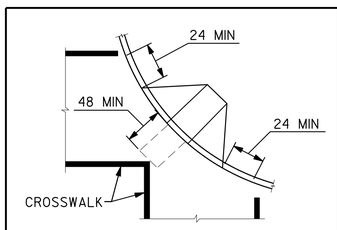
G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.



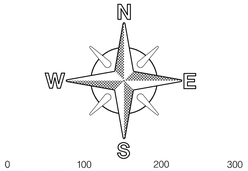
DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

(2)	CURB RAMP NUMBER
◇	NO ACTION
⩚	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
CI	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

C-53

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 56 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH (PRINT NAME) — DATE: 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A

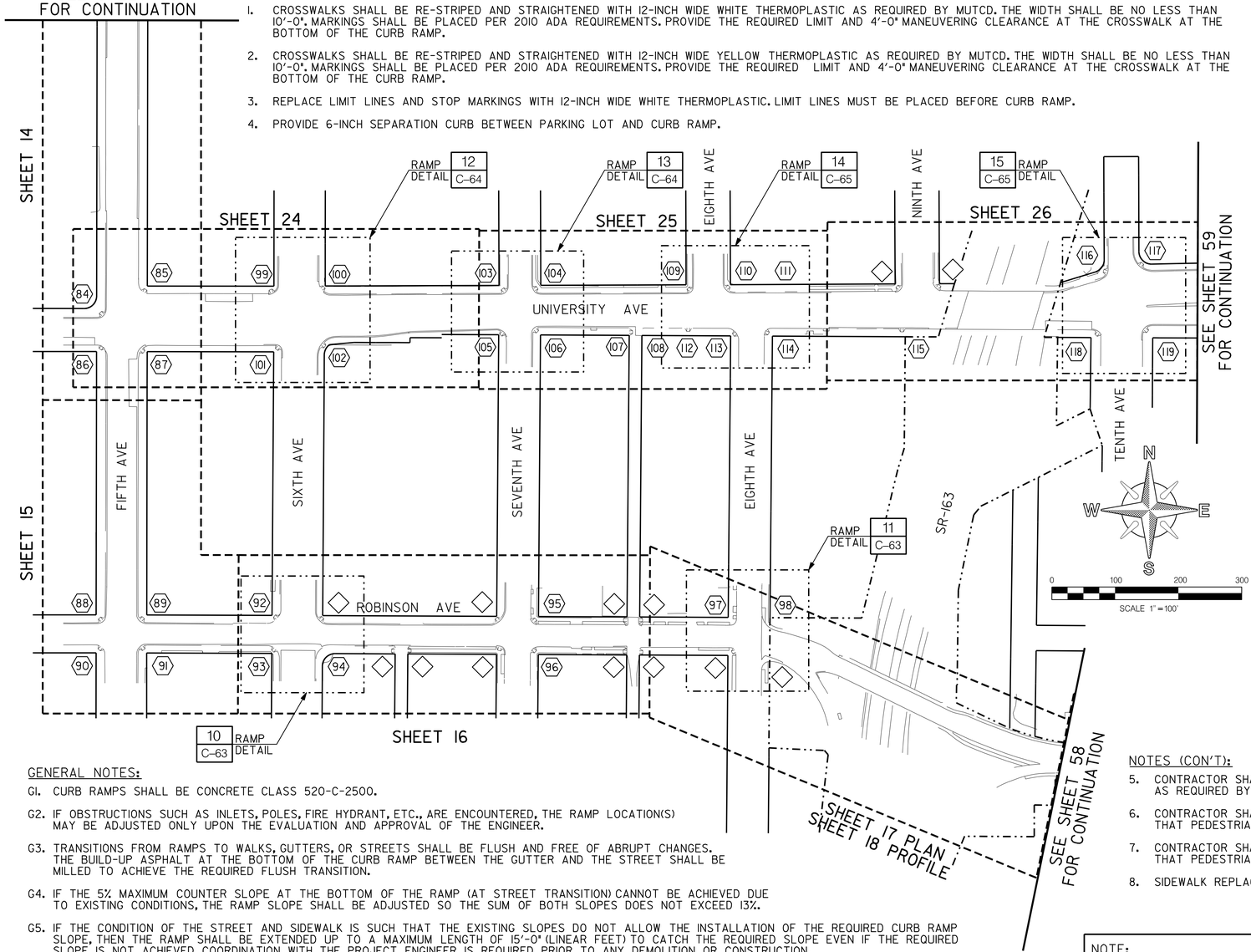
SUBMITTED BY: F. Michael Bagoyo, PROJECT MANAGER
APPROVED BY: PROJECT ENGINEER

VARIES, CCS27 COORDINATE
VARIES, CCS83 COORDINATE

36656-56-D

CURB RAMP PLAN 2

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C53.dgn
18-JUL-2014 15:37 therencia



NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER.

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
84	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1 AND 7
85	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1 AND 7
86	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1, 7, AND 8
87	A		X		X			RAMP SHALL HAVE 6' WIDE OPENING - SEE NOTES 1, 7, AND 8
88	A		X		X			SEE NOTE 1
89	A		X		X			SEE NOTES 1, 7, AND 8
90	A		X		X			SEE NOTES 1, 7, AND 8
91	A		X		X			SEE NOTE 1
92	C2		X		X			SEE NOTE 1 AND DETAIL 10, SHT C-63
93	C2		X		X			SEE NOTES 1, 3, AND DETAIL 10, SHT C-63
94	A	X			X			SEE NOTE 1 AND DETAIL 10, SHT C-63
95	A		X		X			SEE NOTE 1
96	A		X		X			SEE NOTE 1
97	A	X		X	X			SEE NOTE 1 AND DETAIL 11, SHT C-63
98	D	X			X			PLACE NEW RAMP DIRECTIONAL TO NW CORNER - SEE NOTE 1 AND DETAIL 11, SHT C-63
99	A		X		X			ADJUST PULLBOX - SEE NOTES 1, 7, AND DETAIL 12, SHT C-64
100	A		X		X			SEE NOTE 1 AND DETAIL 12, SHT C-64
101	A		X		X			SEE NOTES 1, 8, AND DETAIL 12, SHT C-64
102	C2		X		X			SEE NOTE 1 AND DETAIL 12, SHT C-64
103	A		X		X			SEE NOTE 1 AND DETAIL 13, SHT C-64
104	A		X		X			SEE NOTES 1, 3, AND DETAIL 13, SHT C-64
105	C1		X		X			SEE NOTES 1, 3, AND DETAIL 13, SHT C-64
106	A		X		X			SEE NOTE 1 AND DETAIL 13, SHT C-64
107	D		X		X			
108	D		X		X			
109	A		X		X			SEE NOTES 1, 3, AND DETAIL 14, SHT C-65
110	D		X		X			NEW RAMP DIRECTIONAL TO NW CORNER - SEE NOTES 1, 3, AND DETAIL 14, SHT C-65
111	B	X			X			SEE NOTES 1, 3, AND DETAIL 14, SHT C-65
112	B	X			X			REPLACE DRIVEWAY W/ CURB RAMP, ADD CURB AND GUTTER TO REMAINDER SEE NOTE 3 AND DETAIL 14, SHT C-65
113	C2		X		X			NEW RAMP DIRECTIONAL TO SE CORNER - SEE DETAIL 14, SHT C-65
114	A		X		X			SEE NOTE 3 AND DETAIL 14, SHT C-65
115	B		X		X			SEE NOTE 1
116	A		X		X			SEE NOTES 1, 3, AND DETAIL 15, SHT C-65
117	A		X		X			SEE NOTES 1, 3, AND DETAIL 15, SHT C-65
118	A		X		X			SEE NOTES 1, 3, 7, AND DETAIL 15, SHT C-65
119	A		X		X			SEE NOTES 1, 3, AND DETAIL 15, SHT C-65

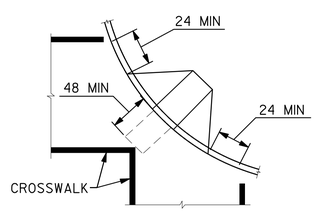
* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES (CON'T):

5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

2	CURB RAMP NUMBER
	NO ACTION
	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT WILSON WARREN No. CA5272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

C-54

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 3

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 57 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 (DATE)

WATER WBS S-11021
SEWER WBS N/A

SUBMITTED BY: F. Michael Bagoua, PROJECT MANAGER

APPROVED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

VARIES CCS27 COORDINATE

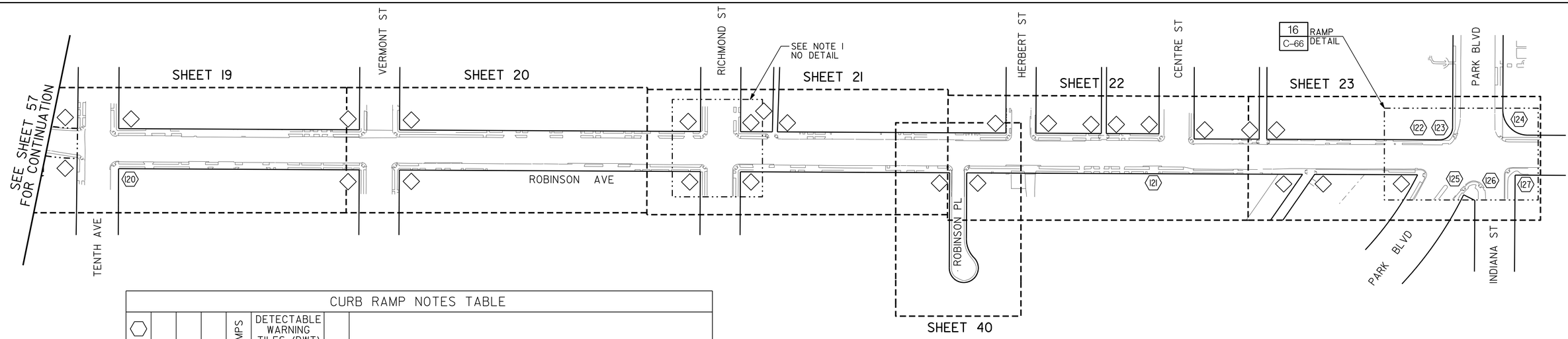
VARIES CCS83 COORDINATE

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

36656-57-D

CURB RAMP PLAN 3

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C54.dgn
18-JUL-2014 15:38 therencia



CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
120	A		X		X			SEE NOTE 1
121	B	X			X			MISSING CURB RAMP - SEE NOTE 3. ENSURE CURB RAMP DOES NOT IMPACT DRIVEWAY TO THE WEST. RELOCATE LIMIT LINE BEFORE CURB RAMP.
122	B	X			X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
123	C1		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
124	A		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
125	B		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
126	B		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66
127	A		X		X			SEE NOTES 1, 3, AND DETAIL 16, SHT C-66

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK ARE AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER.

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

LEGEND

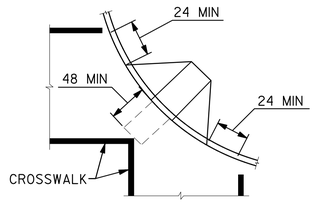
2	CURB RAMP NUMBER
◇	NO ACTION
/\	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

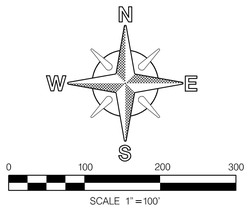
A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



DIAGONAL OR CORNER TYPE CURB RAMPS



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON WARD No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

C-55

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 4

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 58 OF 86 SHEETS

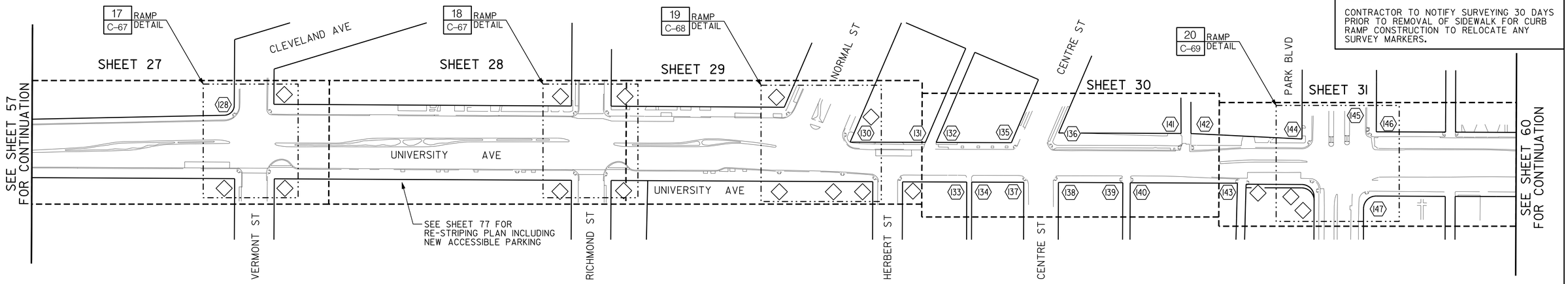
APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DESIGNED BY: F. Michael Bafouna — PROJECT MANAGER
CHECKED BY: Thomas Bolin — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
VARIES — CCS27 COORDINATE
VARIES — CCS83 COORDINATE
36656-58-D

CURB RAMP PLAN 4



NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

CURB RAMP NOTES TABLE

LOCATION NO. ⟨⟩	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
128	A		X		X			SEE NOTE 1 AND DETAIL 17, SHT C-67
129								NOT USED
130	C2	X			X			SEE NOTES 1, 10, AND DETAIL 19, SHT C-68
131	D	X			X			
132	D	X			X			
133	D	X			X			
134	D	X			X			
135	A		X		X			
136	A		X		X			
137	A		X		X			
138	A		X		X			
139	D		X		X			
140	D		X		X			
141	D		X		X			
142	D		X		X			
143	D		X		X			
144	A		X		X			SEE NOTES 1, 3, AND DETAIL 20, SHT C-69
145								NOT USED
146	A		X		X			SEE NOTES 1, 3, AND DETAIL 20, SHT C-69
147								NOT USED

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. RE-STRIPE ACCESSIBLE PARKING ON SOUTH SIDE. ADD TWO ACCESSIBLE PARKING SPOTS ON NORTH SIDE AND A CURB RAMP. SEE SDM-17, SHEETS 1 AND 4 OF 7.
10. INSTALL MODIFIED CURB RAMP, MOVE PULL BOX AND TRASH CAN, RELOCATE PEDESTRIAN PUSH BUTTON.
11. USE FLARELESS TYPE B RAMP TO ACCOMMODATE EXISTING VAULT.
12. COORDINATE WITH DEAN MARSDEN (UNIVERSITY MOBILITY PLAN).

GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER.

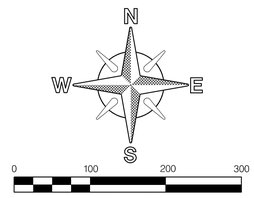
G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

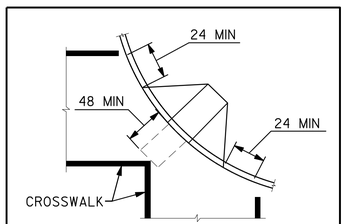


LEGEND

⟨2⟩	CURB RAMP NUMBER
◇	NO ACTION
	EX CURB RAMP

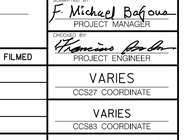
PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



DIAGONAL OR CORNER TYPE CURB RAMPS

Brown AND Caldwell



06/09/2014

C-56

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 5

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 59 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER — IRAJ ASCHARZADEH, PRINT NAME — DATE 6-9-2014

DESIGNED BY: F. Michael Bafous, PROJECT MANAGER

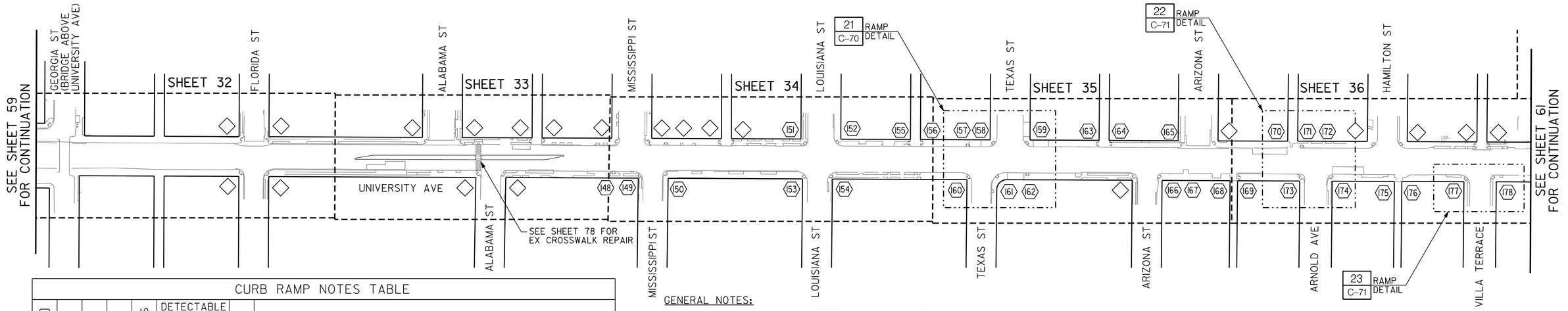
CHECKED BY: Florence Ba-la, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

WATER WBS	S-11021
SEWER WBS	N/A
	VARIES CCS27 COORDINATE
	VARIES CCS83 COORDINATE
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
	36656-59-D

CURB RAMP PLAN 5

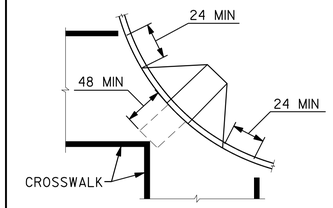
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C56.dgn
18-JUL-2014 15:39 therencia



CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
148	B		X		X			SEE NOTE 1
149	C1		X		X			
150	A		X		X			SEE NOTE 1
151	A		X		X			
152	A		X		X			
153	A		X		X			
154	C1		X		X			
155	D		X		X			
156	D		X		X			
157	B	X			X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
158	A		X		X			SEE NOTES, 1, 3, 5, AND DETAIL 21, SHT C-70
159	A		X		X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
160	A		X		X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
161	A		X		X			SEE NOTES 1, 3, 5, AND DETAIL 21, SHT C-70
162	B	X			X			SEE NOTES 1, 3, AND DETAIL 21, SHT C-70
163	D		X		X			
164	D		X		X			
165	A		X		X			
166	A		X		X			
167	B	X			X			
168	D	X			X			
169	D		X		X			
170	D	X			X			SEE NOTE 1 AND DETAIL 22, SHT C-71
171	D	X			X			SEE NOTE 1 AND DETAIL 22, SHT C-71
172	D	X			X			SEE NOTE 1 AND DETAIL 22, SHT C-71
173	A		X		X			SEE NOTE 1 AND DETAIL 22, SHT C-71
174	A		X		X			SEE NOTES 1, 5, AND DETAIL 22, SHT C-71
175	D		X		X			
176	D		X		X			
177	D		X		X			DIRECTIONAL TO SE CORNER, SEE DETAIL 23, SHT C-71
178	D		X		X			DIRECTIONAL TO SW CORNER, SEE DETAIL 23, SHT C-71

* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST



DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

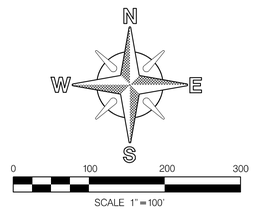
2 CURB RAMP NUMBER

NO ACTION

EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER.

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. CHECK DRIVEWAY WIDTH AGAINST SDG-163, THEN DESIGN CURB RAMP. SEE ADA REPORT.
10. TWO NEW CURB RAMPS TO BE DESIGNED. REFER TO SDG-130, SHEET 2 OF 5.
11. COORDINATE WORK WITH JASON GUISE AND DEAN MARSDEN. ANOTHER PROJECT IS PLANNED HERE TO INSTALL A CROSSWALK.
12. COORDINATE WITH DEAN MARSDEN (UNIVERSITY MOBILITY PLAN).

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WARREN — NO. C45272 EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

C-57

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 6

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 60 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH — DATE: 6-9-2014

WATER WBS: S-11021
SEWER WBS: N/A

SUBMITTED BY: F. Michael Bagoua — PROJECT MANAGER

APPROVED BY: Francis Brown — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1725 CCS27 COORDINATE

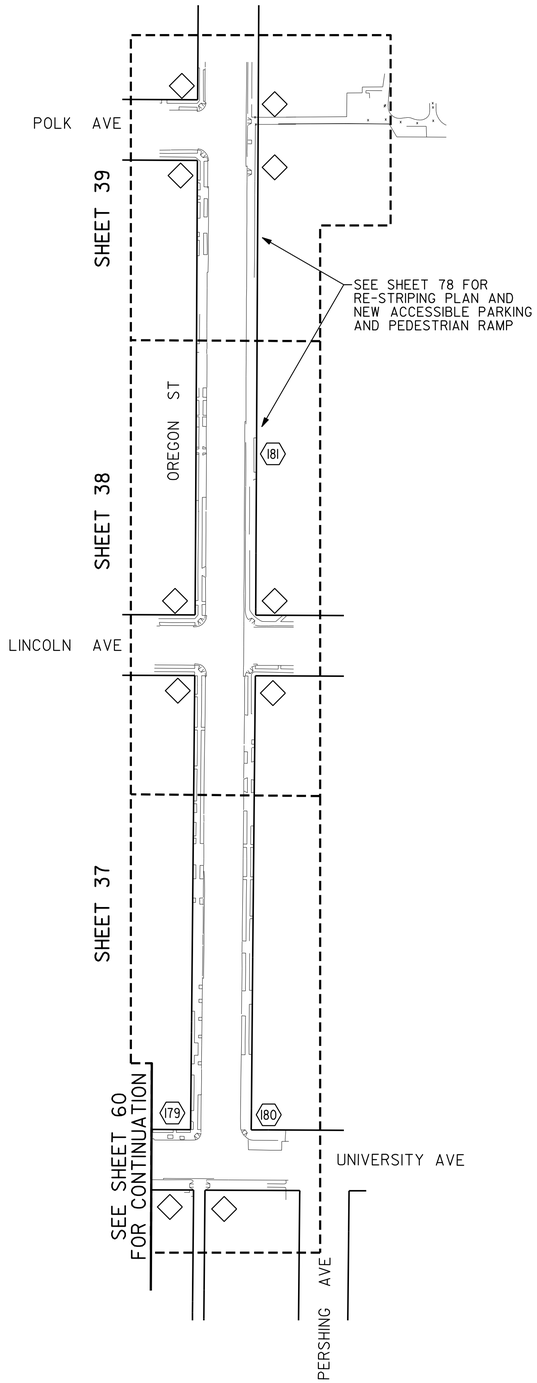
1850444-6286407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-60-D

CURB RAMP PLAN 6

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C57.dgn
18-JUL-2014 15:40 therencia



GENERAL NOTES:

G1. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.

G2. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION AND APPROVAL OF THE ENGINEER.

G3. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.

G4. IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOES NOT EXCEED 13%.

G5. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH THE PROJECT ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

G6. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.

G7. THE CROSS SLOPE OF THE RAMP AND LANDINGS SHALL BE 1.5%.

G8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED. CURB RAMP SHALL NOT AFFECT THE EXISTING DRAINAGE PATTERN ON STREET.

G9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.

G10. HISTORICAL STAMP IMPRESSIONS SHALL BE PRESERVED PER SDG-115.

G11. UTILITY PULL BOXES, MANHOLES, VAULTS, AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE ENGINEER.

G12. PROTECT EXISTING PEDESTRIAN BARRICADES. IF DAMAGED, REPLACE BARRICADES PER SDE-103.

G13. ANY EXISTING CROSSWALK STRIPING AFFECTED BY NEW SLURRY SEAL SHALL BE REPLACED PER FEDERAL, STATE, AND LOCAL ADA REQUIREMENTS.

G14. PATCH AND REPAIR SURFACE DAMAGES ALONG THE BOTTOM OF THE CURB RAMPS AND AT THE CROSSING AREAS SERVING THE CURB RAMPS.

G15. FOR NEW CURB RAMPS AT THE T-SIDE OF T-INTERSECTIONS, PROVIDE A RED CURB WITHIN THE CURB RAMP AREA TO PREVENT PEOPLE FROM PARKING AT THE CURB RAMPS.

G16. DUE TO ONGOING CONSTRUCTION WITHIN THE AREA, SOME EXISTING CURB RAMPS SHOWN TO BE REPLACED ON THESE PLANS MAY BE UPGRADED TO CURRENT ADA REQUIREMENTS BY OTHERS. CONTRACTOR SHALL PERFORM A FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES.

CURB RAMP NOTES TABLE

LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES (DWT) *STAINLESS STEEL	DETECTABLE WARNING TILES (DWT) *NON-STAINLESS STEEL	CONSTRAINTS	COMMENTS / MODIFICATIONS
179	A		X		X			SEE NOTE 9
180	A		X		X			SEE NOTE 9
181	B	X			X			

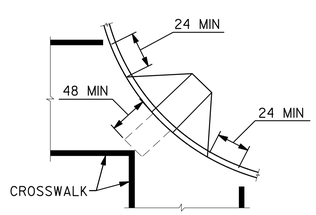
* THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTES:

1. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE WHITE THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
2. CROSSWALKS SHALL BE RE-STRIPED AND STRAIGHTENED WITH 12-INCH WIDE YELLOW THERMOPLASTIC AS REQUIRED BY MUTCD. THE WIDTH SHALL BE NO LESS THAN 10'-0". MARKINGS SHALL BE PLACED PER 2010 ADA REQUIREMENTS. PROVIDE THE REQUIRED LIMIT AND 4'-0" MANEUVERING CLEARANCE AT THE CROSSWALK AT THE BOTTOM OF THE CURB RAMP.
3. REPLACE LIMIT LINES AND STOP MARKINGS WITH 12-INCH WIDE WHITE THERMOPLASTIC. LIMIT LINES MUST BE PLACED BEFORE CURB RAMP.
4. PROVIDE 6-INCH SEPARATION CURB BETWEEN PARKING LOT AND CURB RAMP.
5. CONTRACTOR SHALL INSTALL PEDESTRIAN BARRICADE PER SDE-103 AND DIRECTIONAL SIGNS AS REQUIRED BY MUTCD AND 2010 ADA REQUIREMENTS TO PREVENT CROSSING OF STREET.
6. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS ROUTES TO INTERSECTION ARE NOT INTERRUPTED.
7. CONTRACTOR SHALL PROVIDE BARRICADES AND DIRECTIONAL SIGNS AS REQUIRED TO ENSURE THAT PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.
8. SIDEWALK REPLACEMENT MUST MATCH COLOR AND PATTERN OF ADJACENT SIDEWALK.
9. COORDINATE WITH DEAN MARSDEN (UNIVERSITY MOBILITY PLAN).

NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



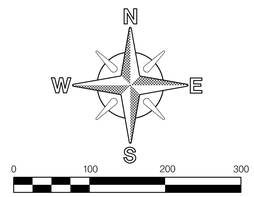
DIAGONAL OR CORNER TYPE CURB RAMPS

LEGEND

2	CURB RAMP NUMBER
◇	NO ACTION
/\	EX CURB RAMP

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
C1	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — JEFFERY JUDSON WATSON — NO. CA 5272 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

C-58

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP PLAN 7

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 61 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

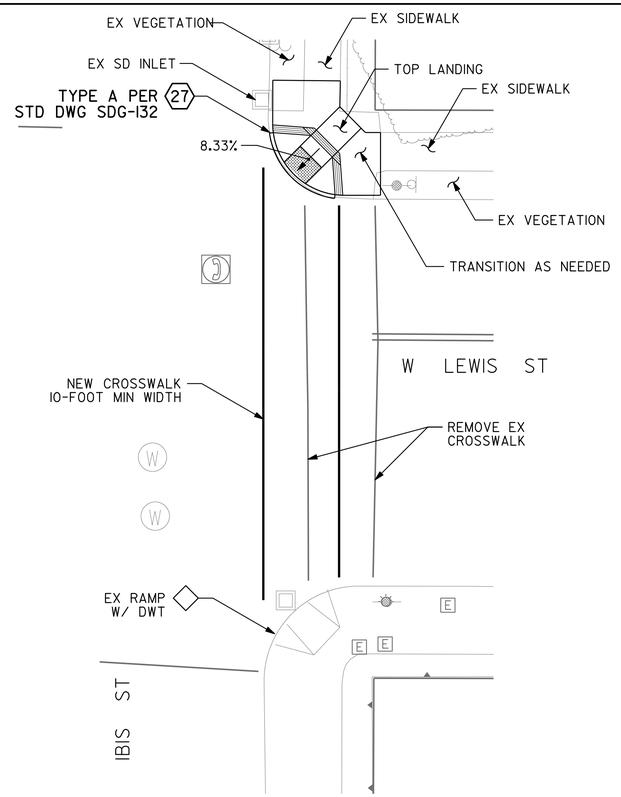
WATER WBS S-11021
SEWER WBS N/A

DESIGNED BY F. Michael Bagoua — PROJECT MANAGER
CHECKED BY Francisco Rodriguez — PROJECT ENGINEER

VARIES — CCS27 COORDINATE
VARIES — CCS83 COORDINATE

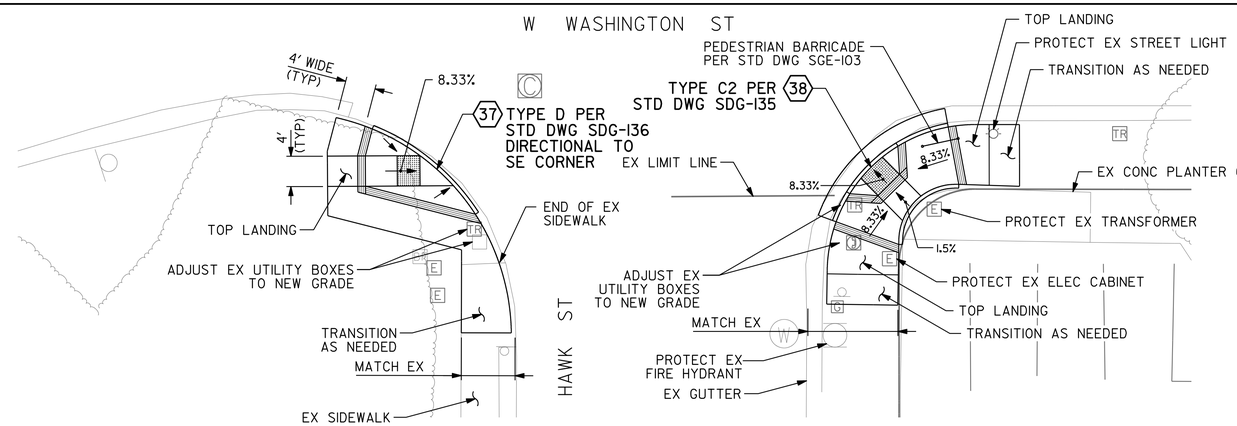
36656- 61 -D

CURB RAMP PLAN 7



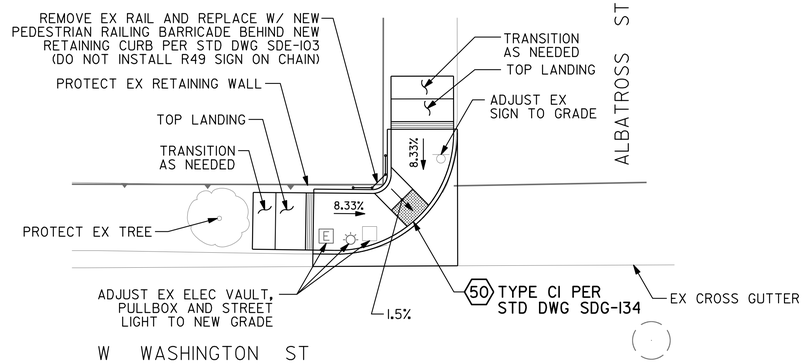
WEST LEWIS ST AND IBIS ST
SEE SHEET 6 FOR PLAN AND PROFILE

DETAIL 1 | SCALE: 1" = 10' | C-52



WEST WASHINGTON ST AND HAWK ST
SEE SHEET 7 FOR PLAN AND PROFILE

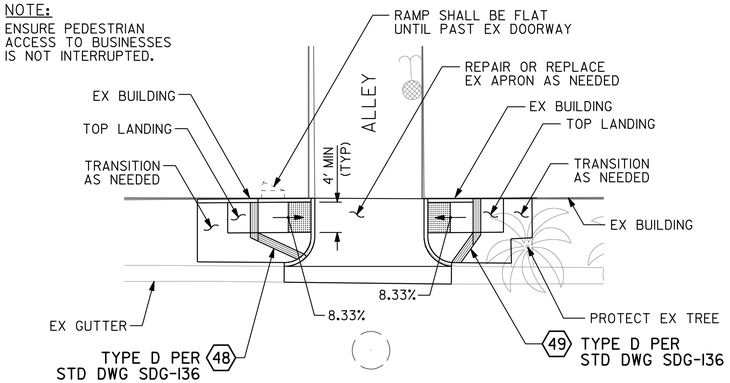
DETAIL 2 | SCALE: 1" = 10' | C-52



WEST WASHINGTON ST AND ALBATROSS ST
SEE SHEET 11 FOR PLAN AND PROFILE

DETAIL 4 | SCALE: 1" = 10' | C-53

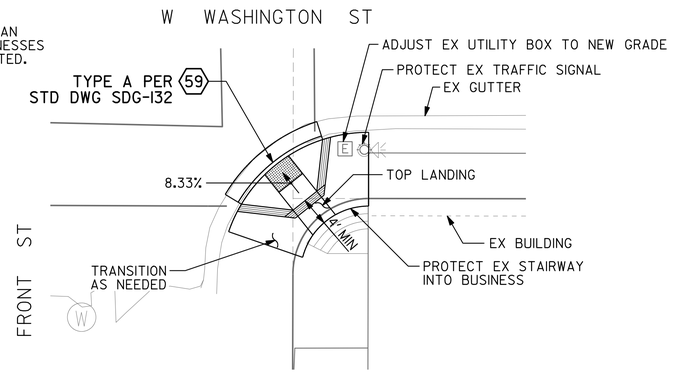
NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.



WEST WASHINGTON ST AND ALLEY
BETWEEN BRANT ST AND ALBATROSS ST
SEE SHEET 10 FOR PLAN AND PROFILE

DETAIL 3 | SCALE: 1" = 10' | C-53

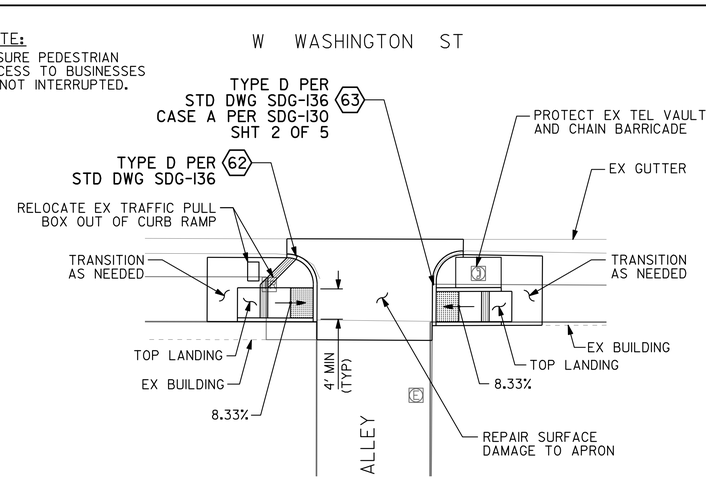
NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.



WEST WASHINGTON ST AND FRONT ST
SEE SHEET 11 FOR PLAN AND PROFILE

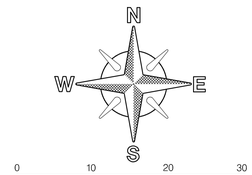
DETAIL 5 | SCALE: 1" = 10' | C-53

NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.



WEST WASHINGTON ST AND ALLEY
BETWEEN FRONT ST AND FIRST AVE
SEE SHEET 11 FOR PLAN AND PROFILE

DETAIL 6 | SCALE: 1" = 10' | C-53



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JEFFREY JUDSON WARD
No. CA 32772
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

C-59

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 62 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DESIGNED BY: F. Michael Bogosian — PROJECT MANAGER
CHECKED BY: Francisco Rodarte — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

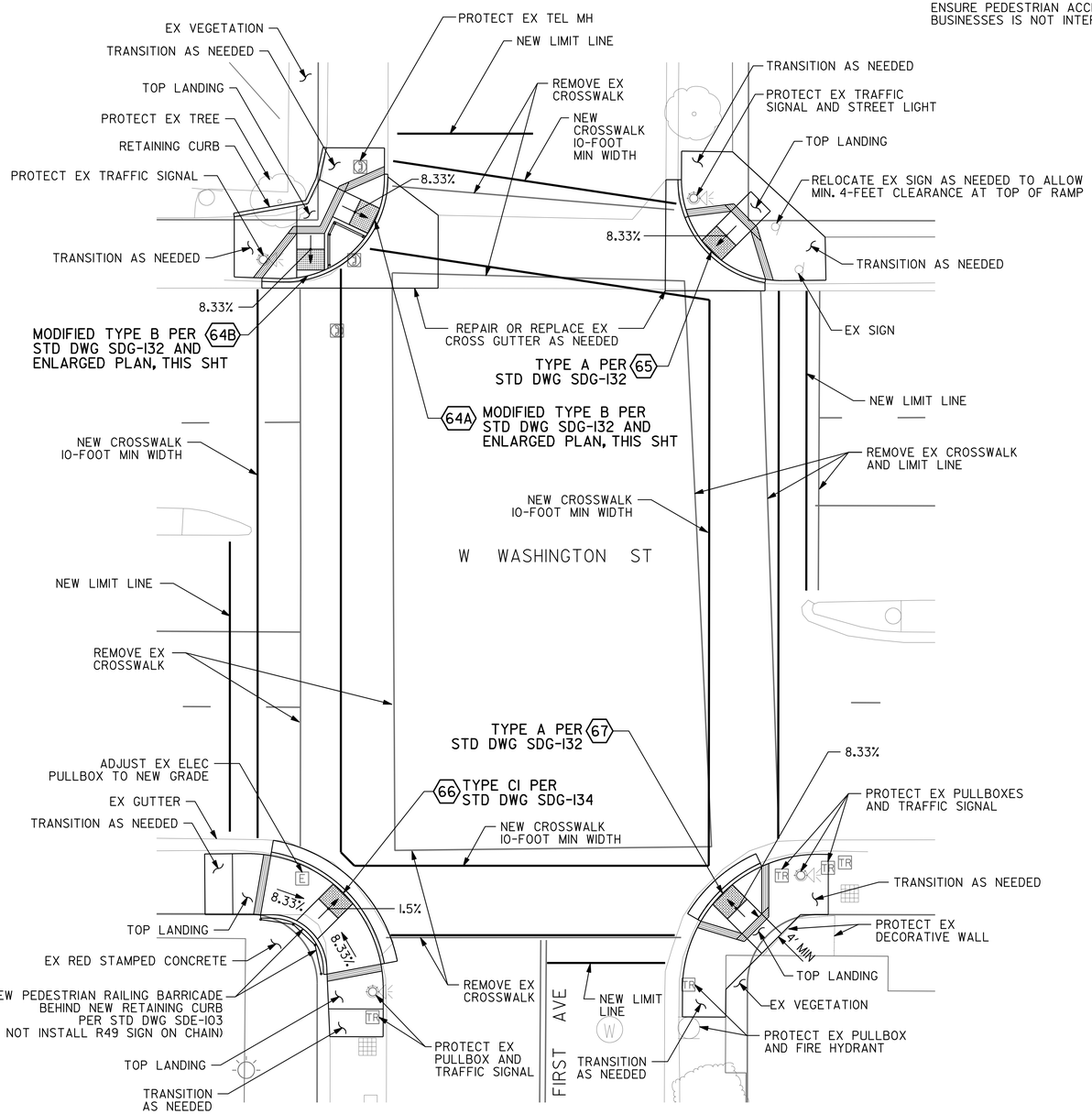
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A
VARIES CCS27 COORDINATE
VARIES CCS83 COORDINATE
36656-62-D

CURB RAMP DETAILS 1

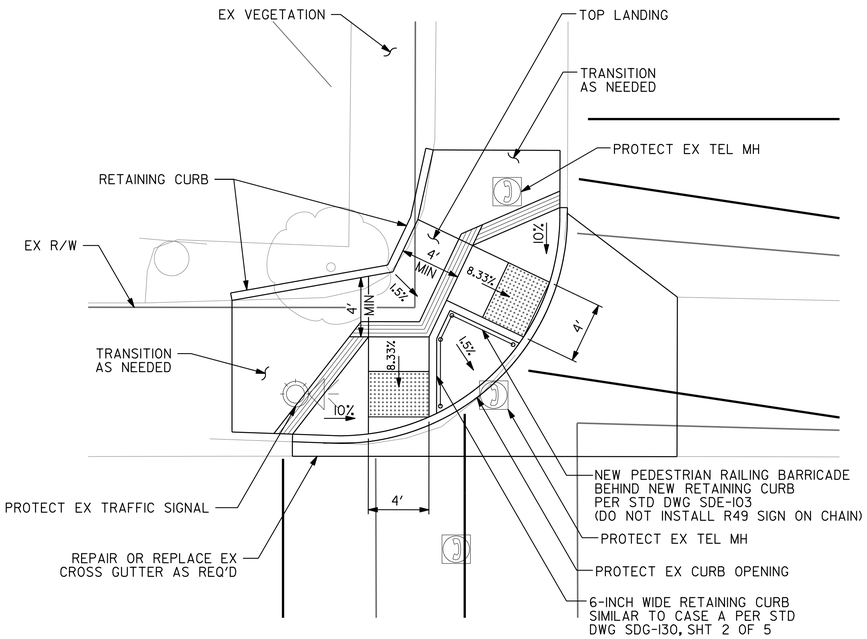
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C59.dgn
18-JUL-2014 15:41 therencia

NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.

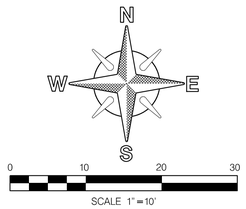


WEST WASHINGTON ST AND FIRST AVE
SEE SHEET 12 FOR PLAN AND PROFILE

DETAIL 7
SCALE: 1" = 10' C-53



RAMPS 64A AND 64B ENLARGED PLAN
SCALE: 1" = 5'



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WALKER No. CA 5272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

CURB RAMP DETAILS 2

C-60

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 63 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — DATE 6-9-2014
IRAJ ASCHARZADEH
PRINT NAME

DESIGNED BY: F. Michael Bogosian — PROJECT MANAGER
CHECKED BY: Thanissa Rodrigues — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

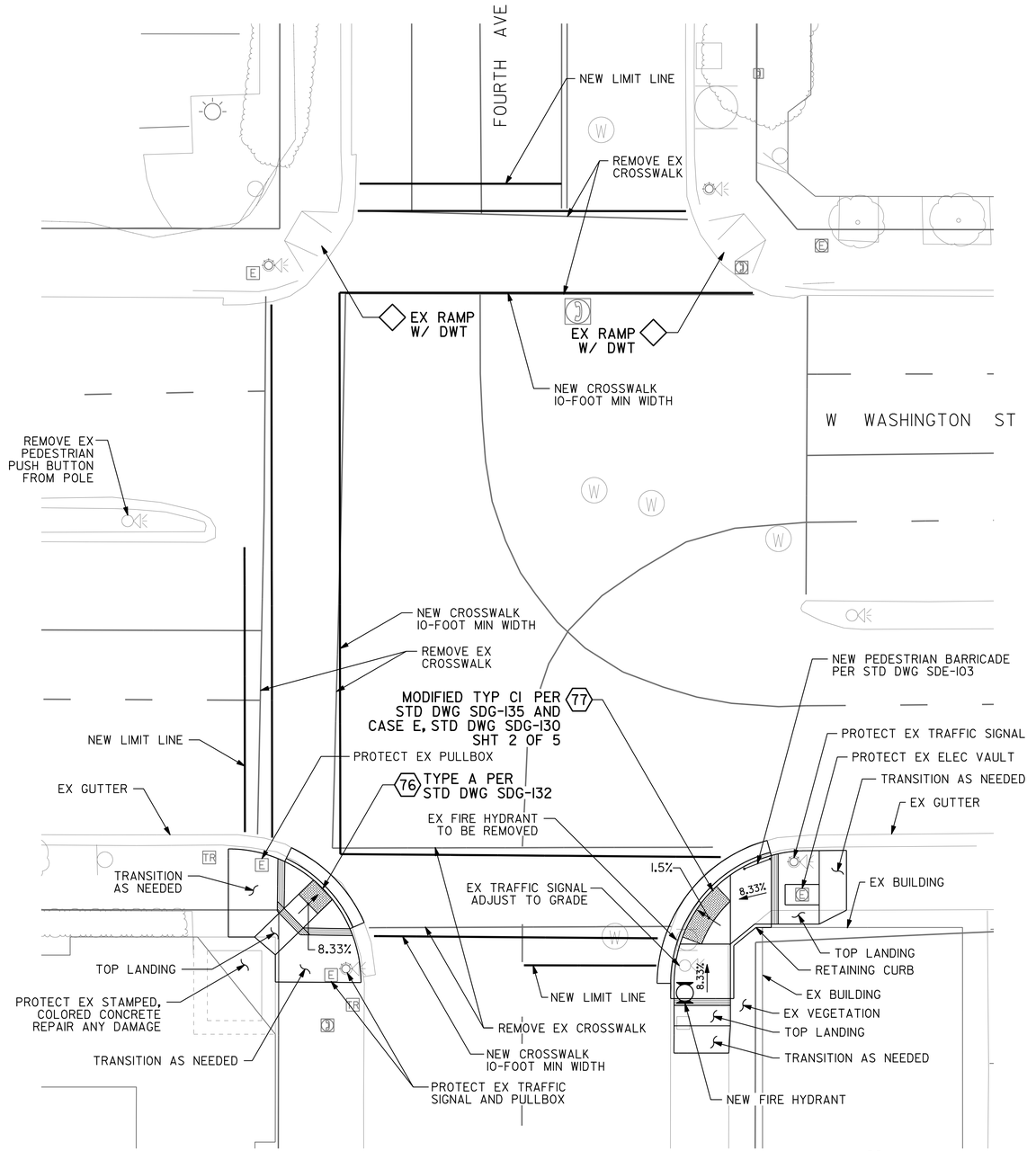
210-1719
CCS27 COORDINATE

1850444-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-63-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C60.dgn
18-JUL-2014 15:41 therencia



WEST WASHINGTON ST AND FOURTH AVE
SEE SHEET 12 FOR PLAN AND PROFILE

DETAIL	8
SCALE: 1" = 10'	C-53

CURB RAMP DETAILS 3

C-61

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 3

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 64 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

SUBMITTED BY F. Michael Bafous PROJECT MANAGER

PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE

1850444-6280407 CCS83 COORDINATE

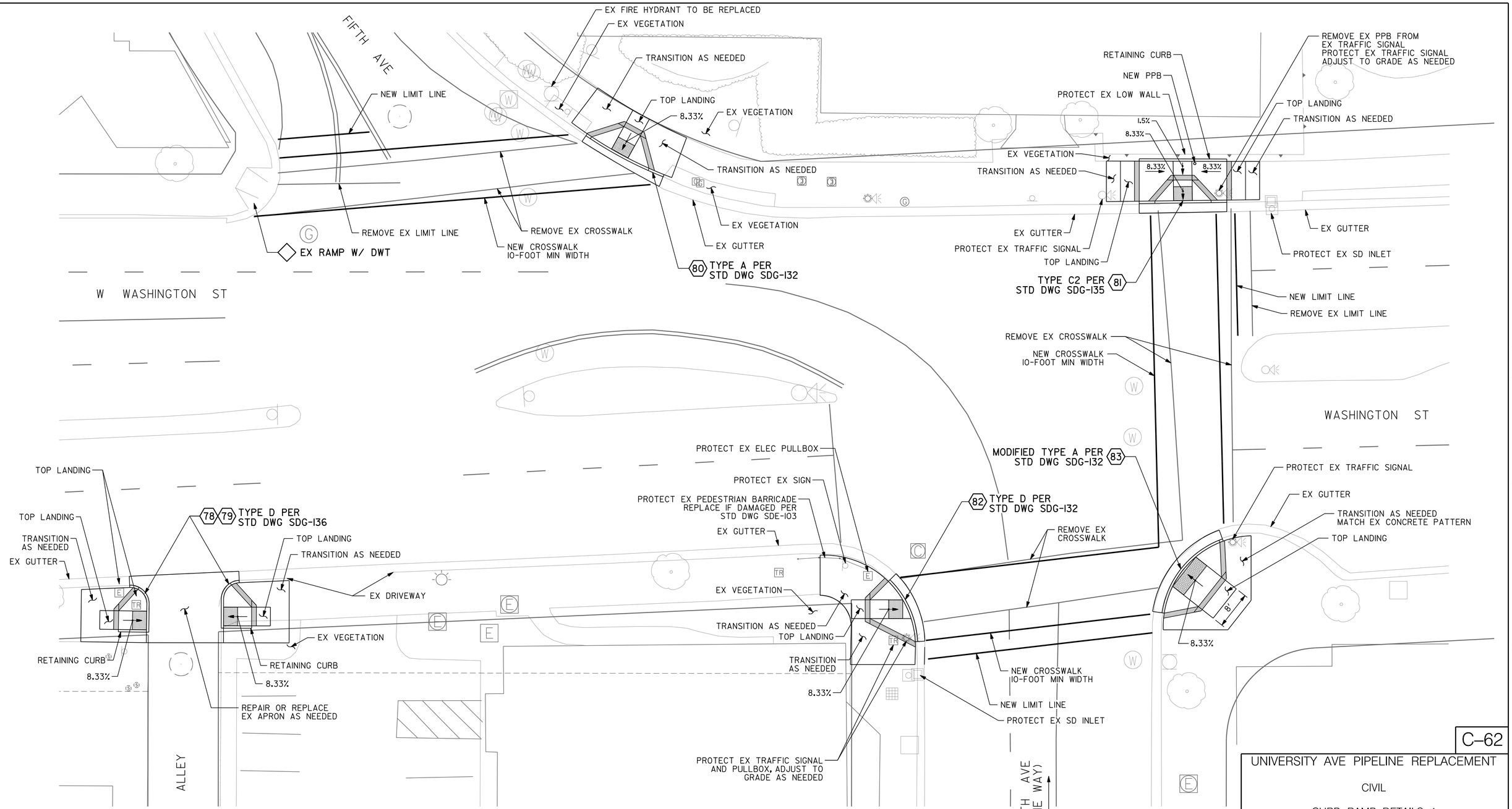
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

36656-64-D

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — ROBERT JUDSON WILSON — NO. C45272 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014



WEST WASHINGTON ST AND FIFTH AVE
SEE SHEET 12 FOR PLAN AND PROFILE

DETAIL	9
SCALE: 1" = 10'	C-53

N W E S

0 10 20 30
SCALE 1" = 10'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WARREN
No. C45272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA

06/09/2014

CURB RAMP DETAILS 4

C-62

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 4

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 65 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — DATE 6-9-2014

DESIGNED BY F. Michael Bafous PROJECT MANAGER

CHECKED BY Francisco Rodriguez PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

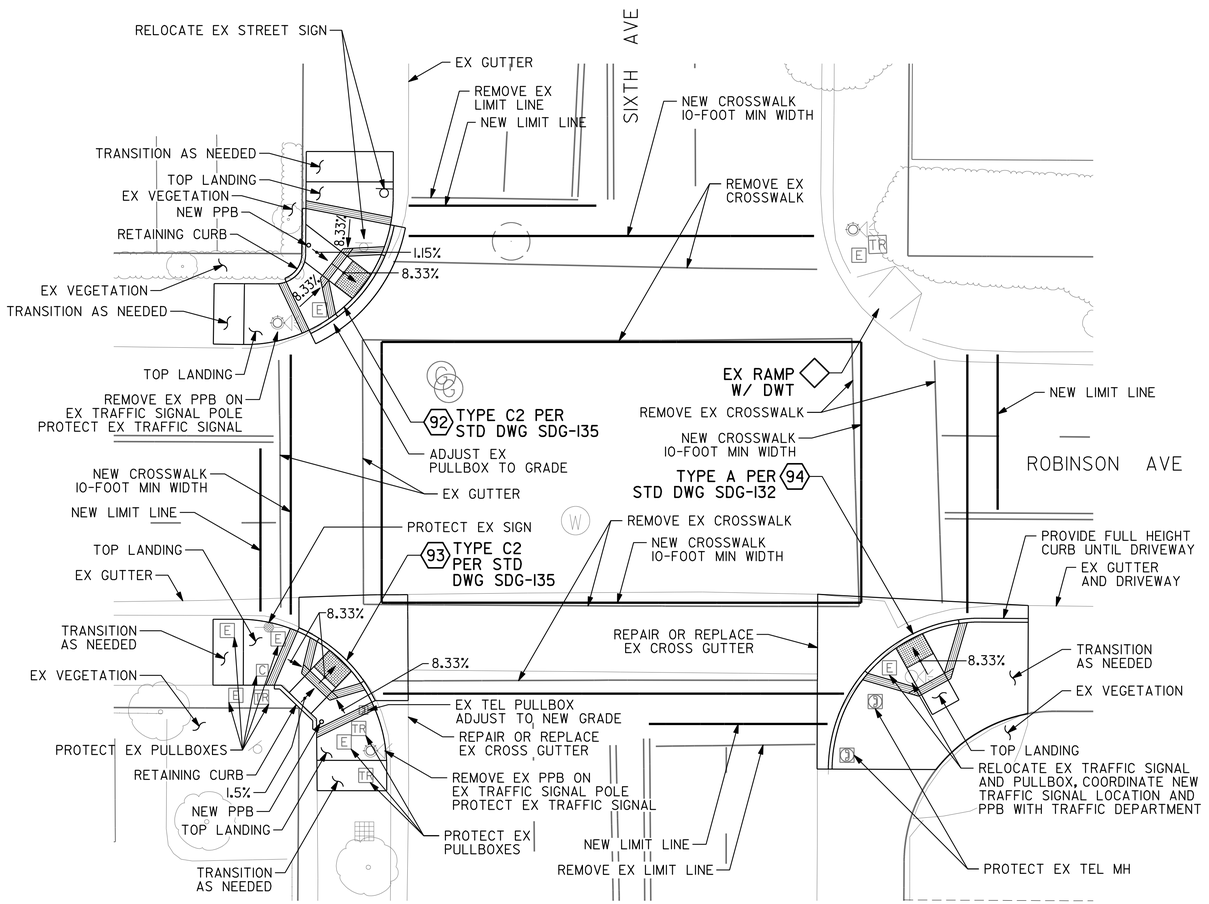
210-1719 CCS27 COORDINATE

1850444-6280407 CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

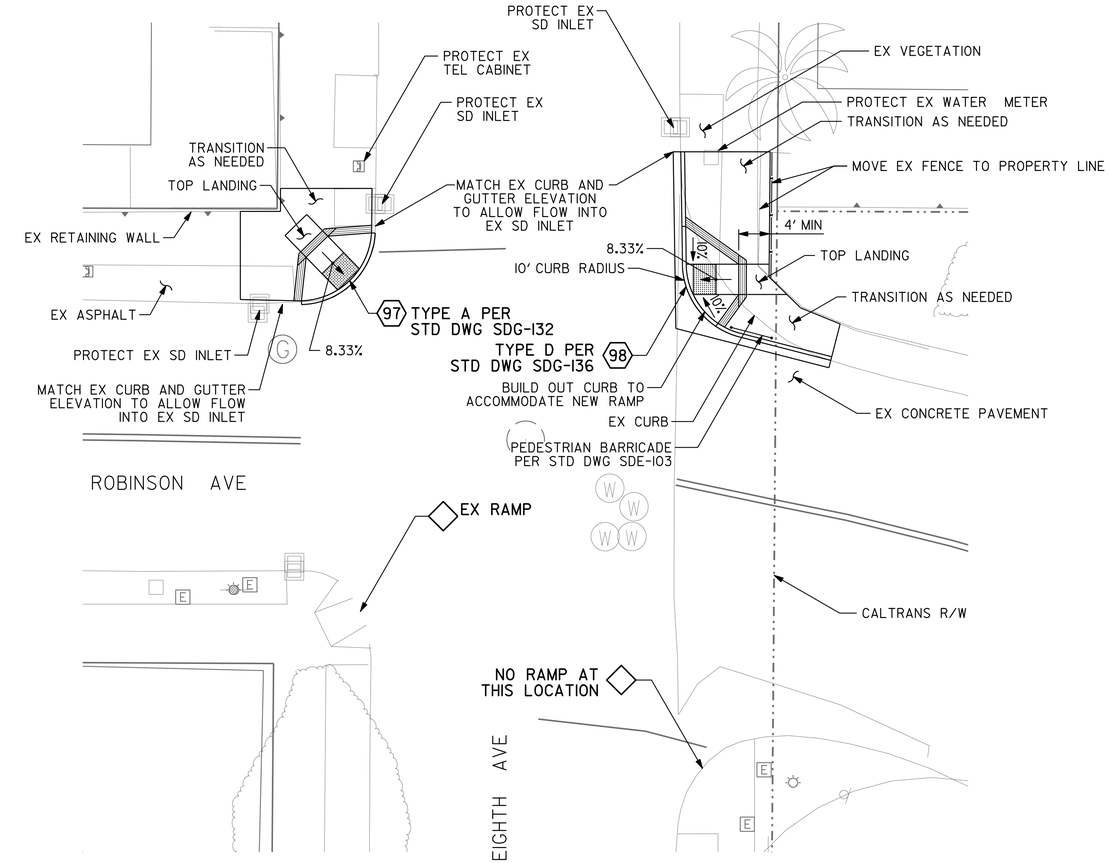
36656-65-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C62.dgn
18-JUL-2014 15:42 therencia



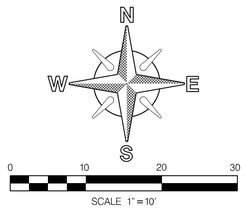
ROBINSON AVE AND SIXTH AVE
SEE SHEET 16 FOR PLAN AND PROFILE

DETAIL 10
SCALE: 1" = 10' C-54



ROBINSON AVE AND EIGHTH AVE
SEE SHEET 17 FOR PLAN

DETAIL 11
SCALE: 1" = 10' C-54



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
RICHARD JUDSON WARNER
NO. C45272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

CURB RAMP DETAILS 5

C-63

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 5

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 66 OF 86 SHEETS

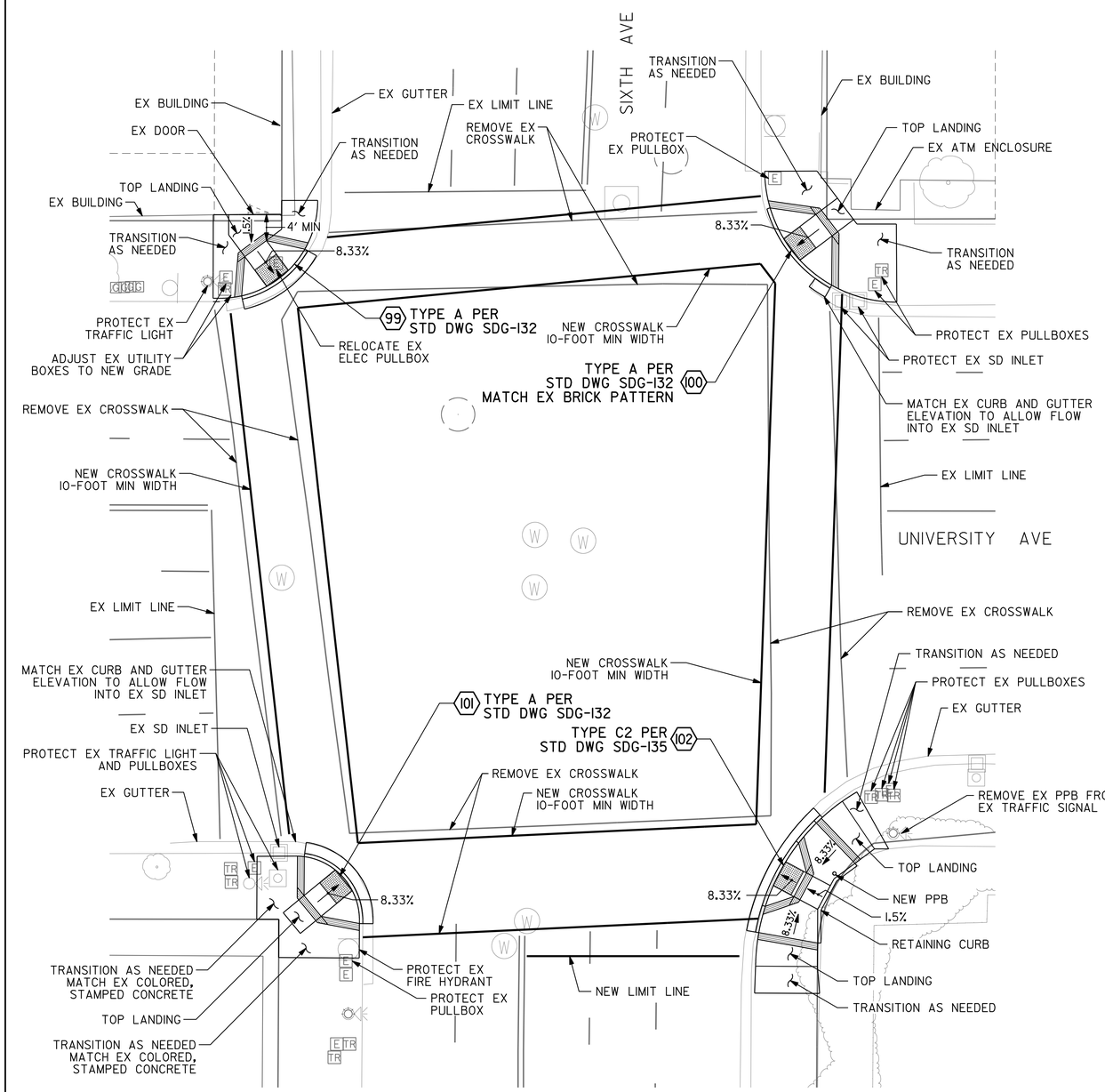
APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

WATER WBS S-11021
SEWER WBS N/A
DESIGNED BY F. Michael Bafoua PROJECT MANAGER
CHECKED BY PROJECT ENGINEER
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-66-D

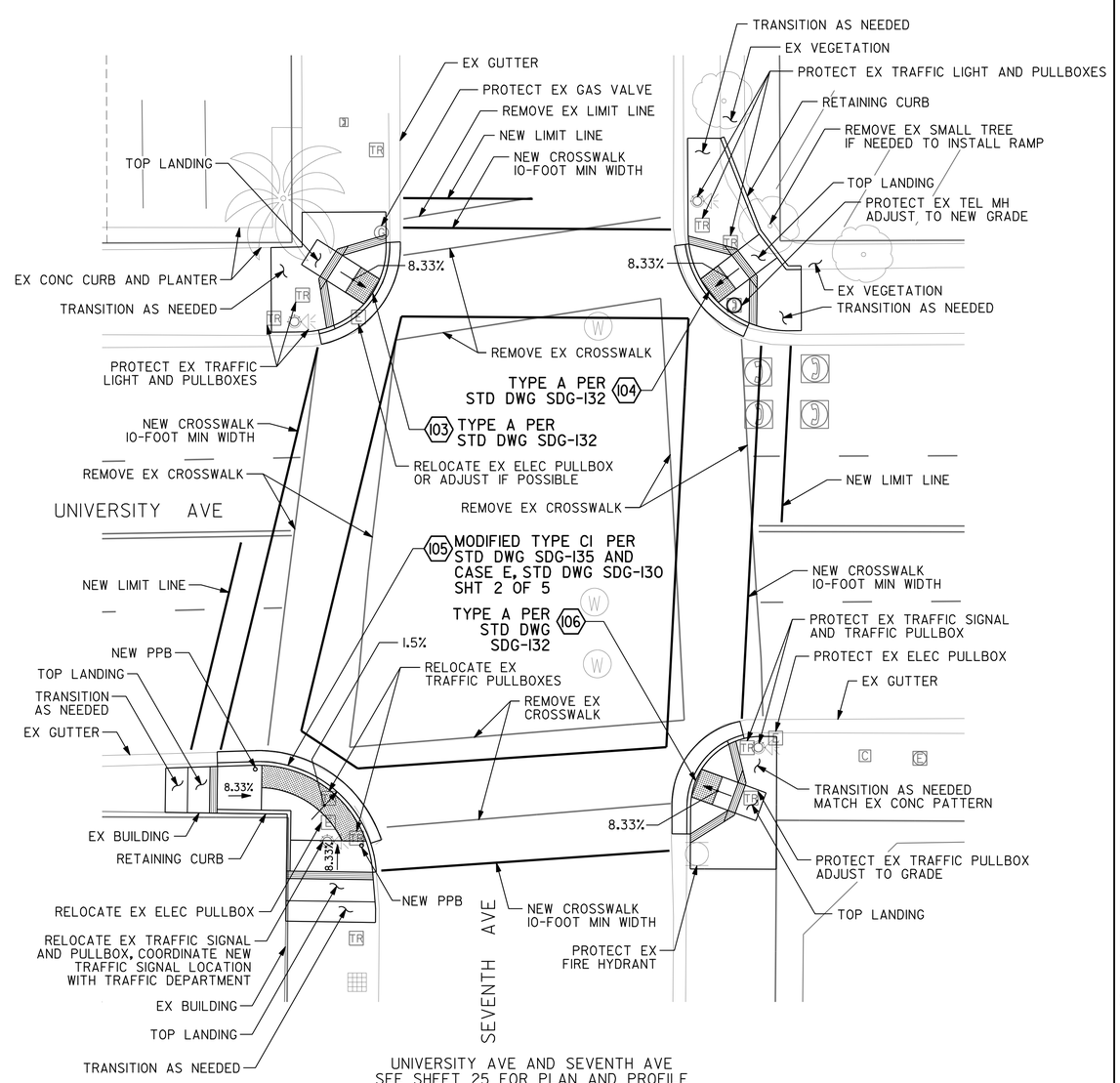
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C63.dgn
18-JUL-2014 15:42 therencia



NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.

UNIVERSITY AVE AND SIXTH AVE
SEE SHEET 24 FOR PLAN AND PROFILE

DETAIL 12
SCALE: 1" = 10' C-54

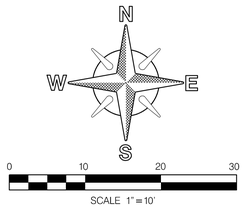


UNIVERSITY AVE AND SEVENTH AVE
SEE SHEET 25 FOR PLAN AND PROFILE

DETAIL 13
SCALE: 1" = 10' C-54

CURB RAMP DETAILS 6

C-64



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER JUDSON W. WHITE No. C43272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 6

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 67 OF 86 SHEETS

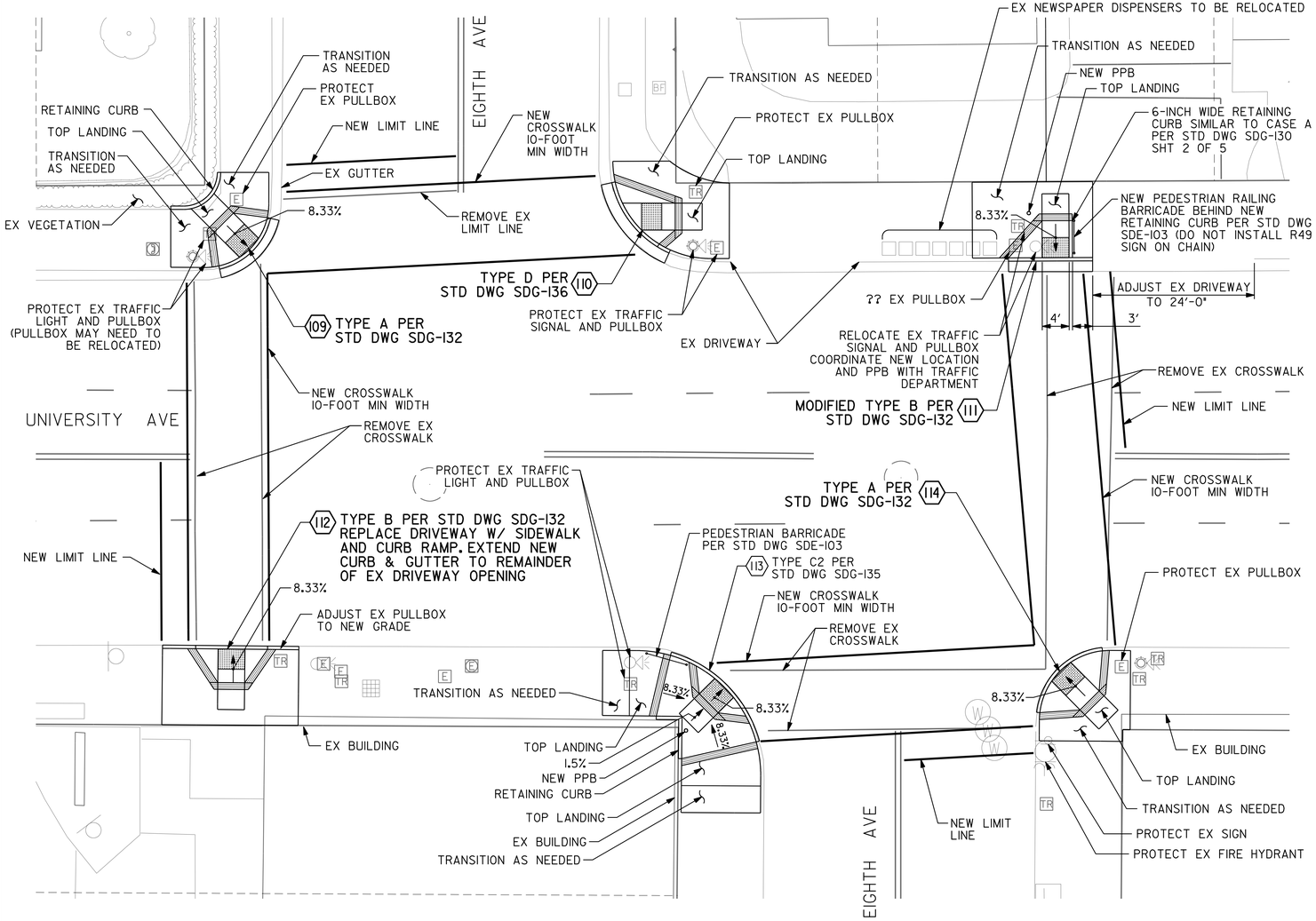
APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014
DESIGNED BY F. Michael Bogosian PROJECT MANAGER
CHECKED BY Thomas Lo PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

WATER WBS S-11021
SEWER WBS N/A
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-67-D

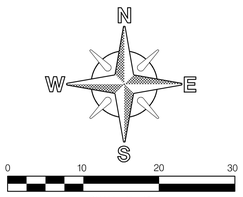
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C64.dgn
18-JUL-2014 15:43 therencia

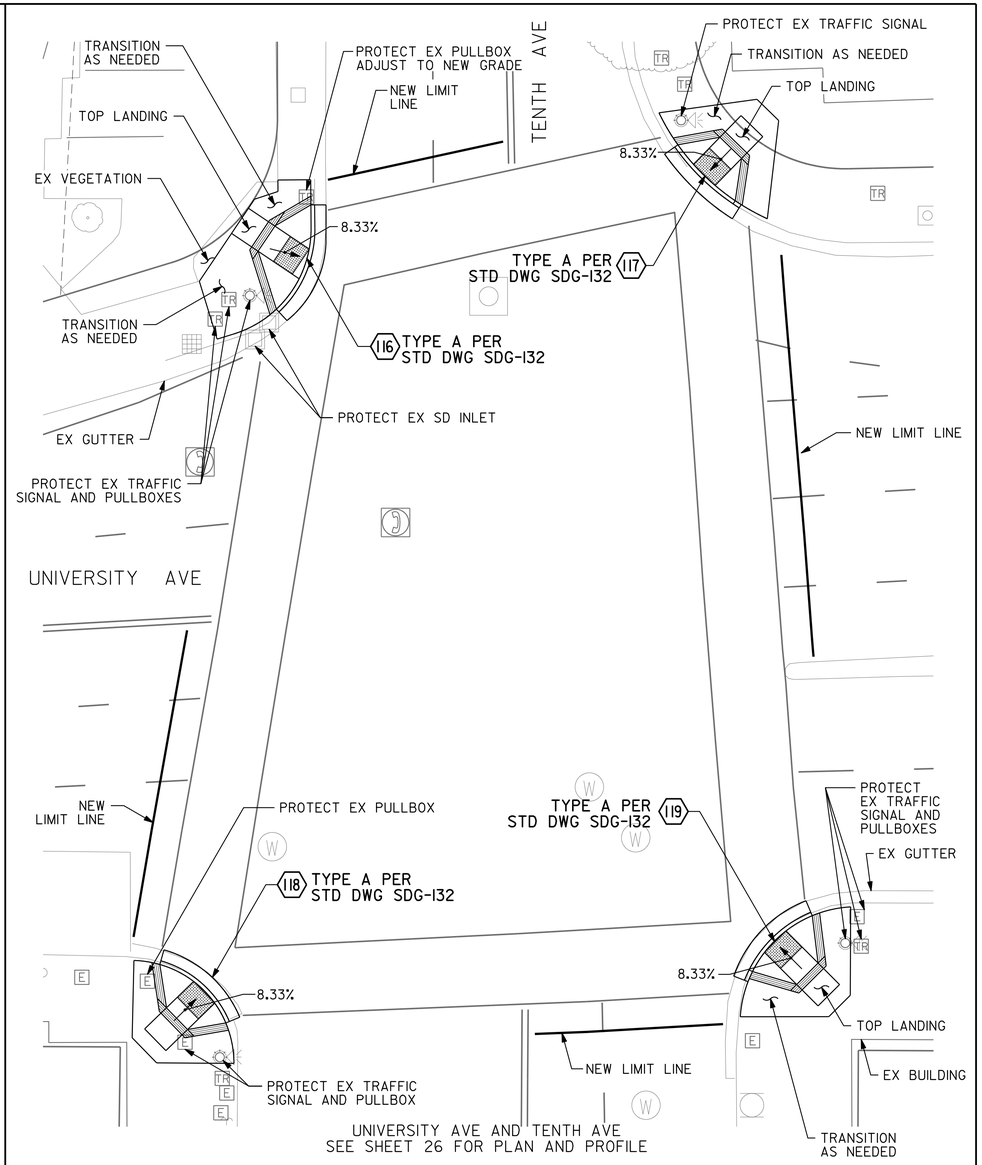


UNIVERSITY AVE AND EIGHTH AVE
SEE SHEET 25 FOR PLAN AND PROFILE

DETAIL 14
SCALE: 1" = 10' C-54

NOTE:
ENSURE ACCESS TO BUSINESSES DURING RAMP CONSTRUCTION





UNIVERSITY AVE AND TENTH AVE
SEE SHEET 26 FOR PLAN AND PROFILE

DETAIL 15
SCALE: 1" = 10' C-54

NOTE:
ENSURE ACCESS TO BUSINESSES DURING RAMP CONSTRUCTION

CURB RAMP DETAILS 7

C-65

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 7

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 68 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014
SUBMITTED BY F. Michael Bagoua PROJECT MANAGER
APPROVED BY PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

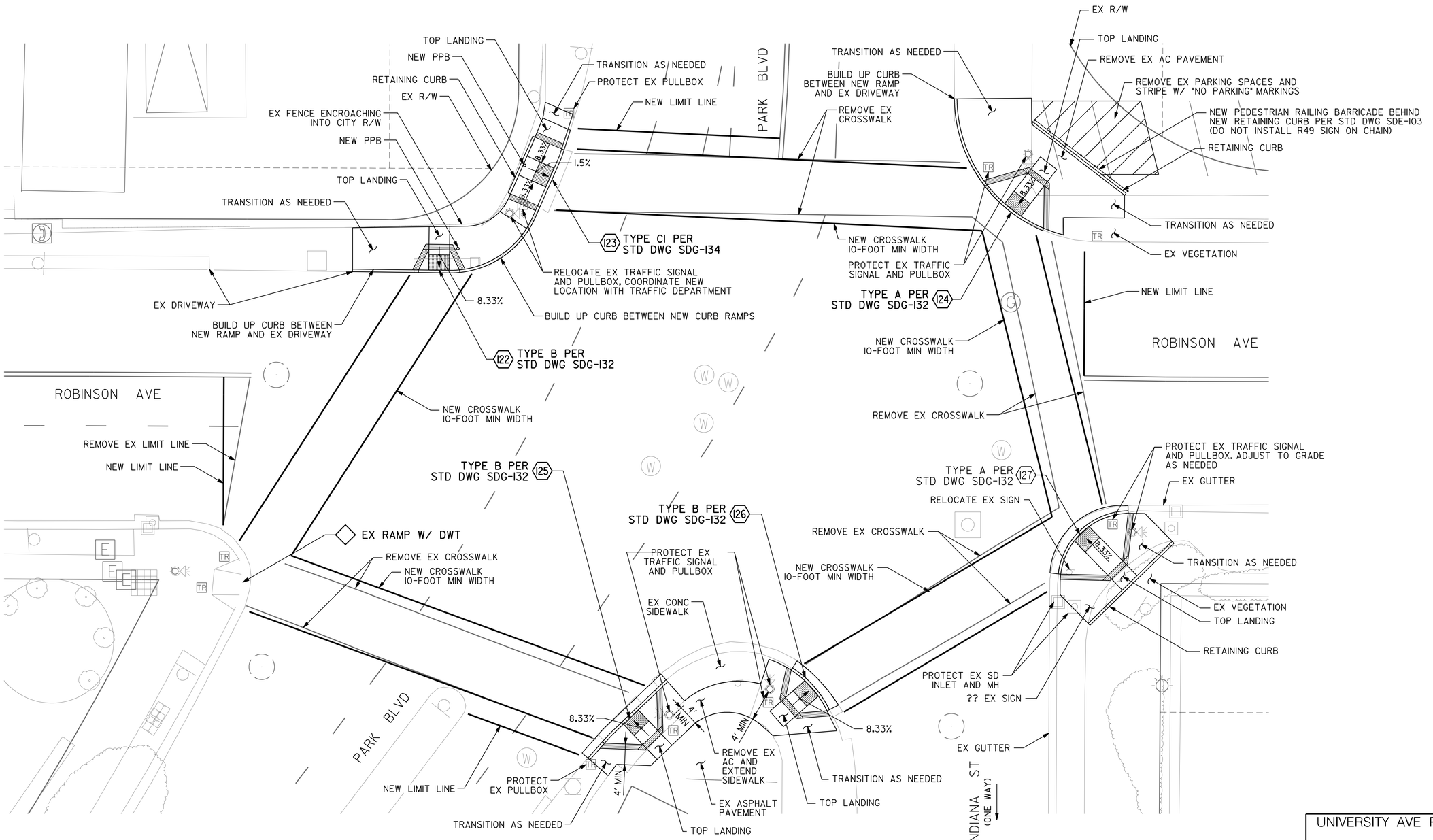
CONTRACTOR — DATE STARTED —
INSPECTOR — DATE COMPLETED —

36656-68-D

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA
06/09/2014

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C65.dgn
18-JUL-2014 15:43 therencia



ROBINSON AVE AND PARK BLVD/INDIANA STREET
SEE SHEET 23 FOR PLAN AND PROFILE

DETAIL	16
SCALE: 1" = 10'	C-55

CURB RAMP DETAILS 8

C-66

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 8

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 69 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER — DATE 6-9-2014
IRAJ ASCHARZADEH
PRINT NAME

DESIGNED BY F. Michael Bogosian PROJECT MANAGER
CHECKED BY PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1719 CCS27 COORDINATE

1850444-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

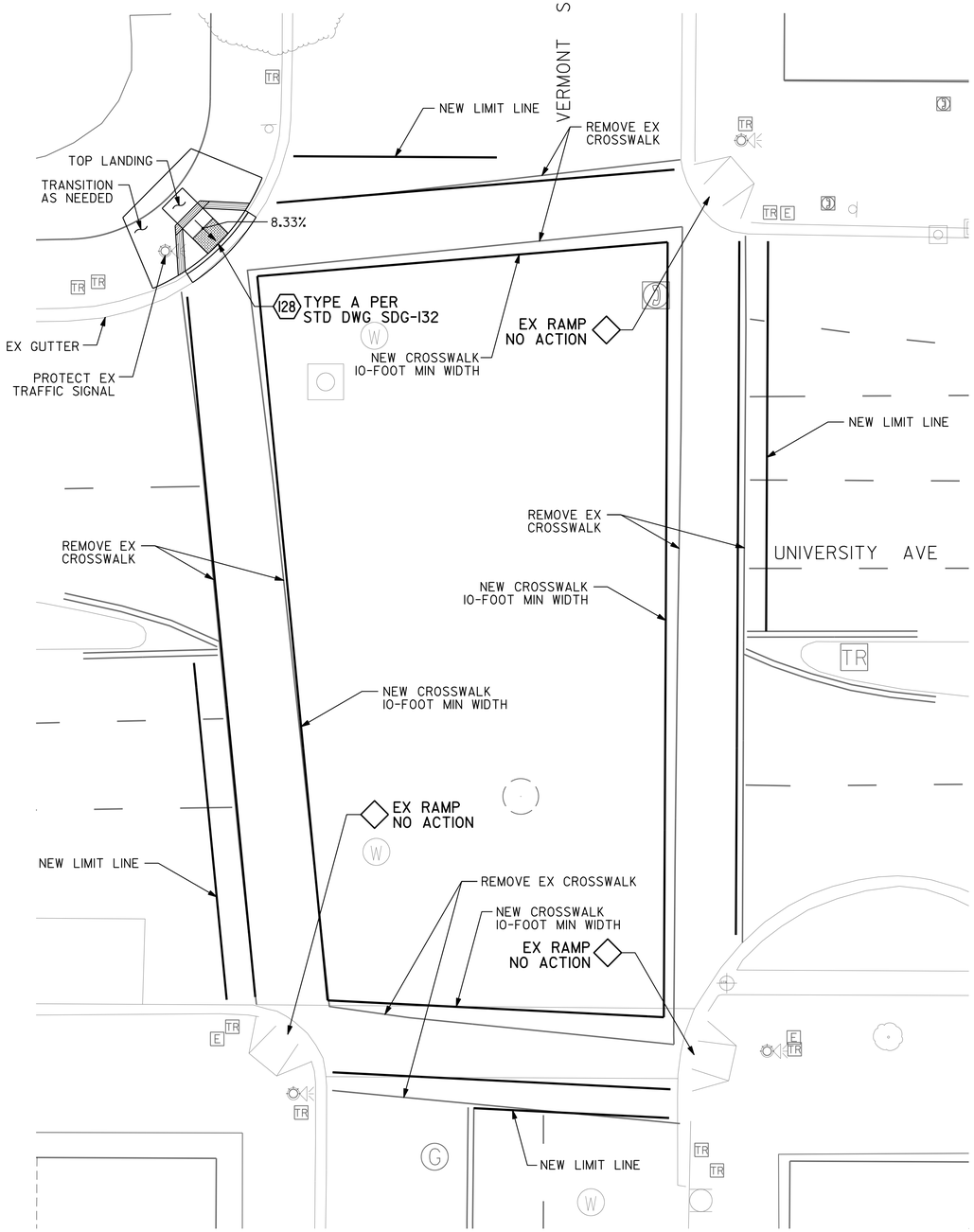
36656-69-D

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WILLIS No. CA5272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

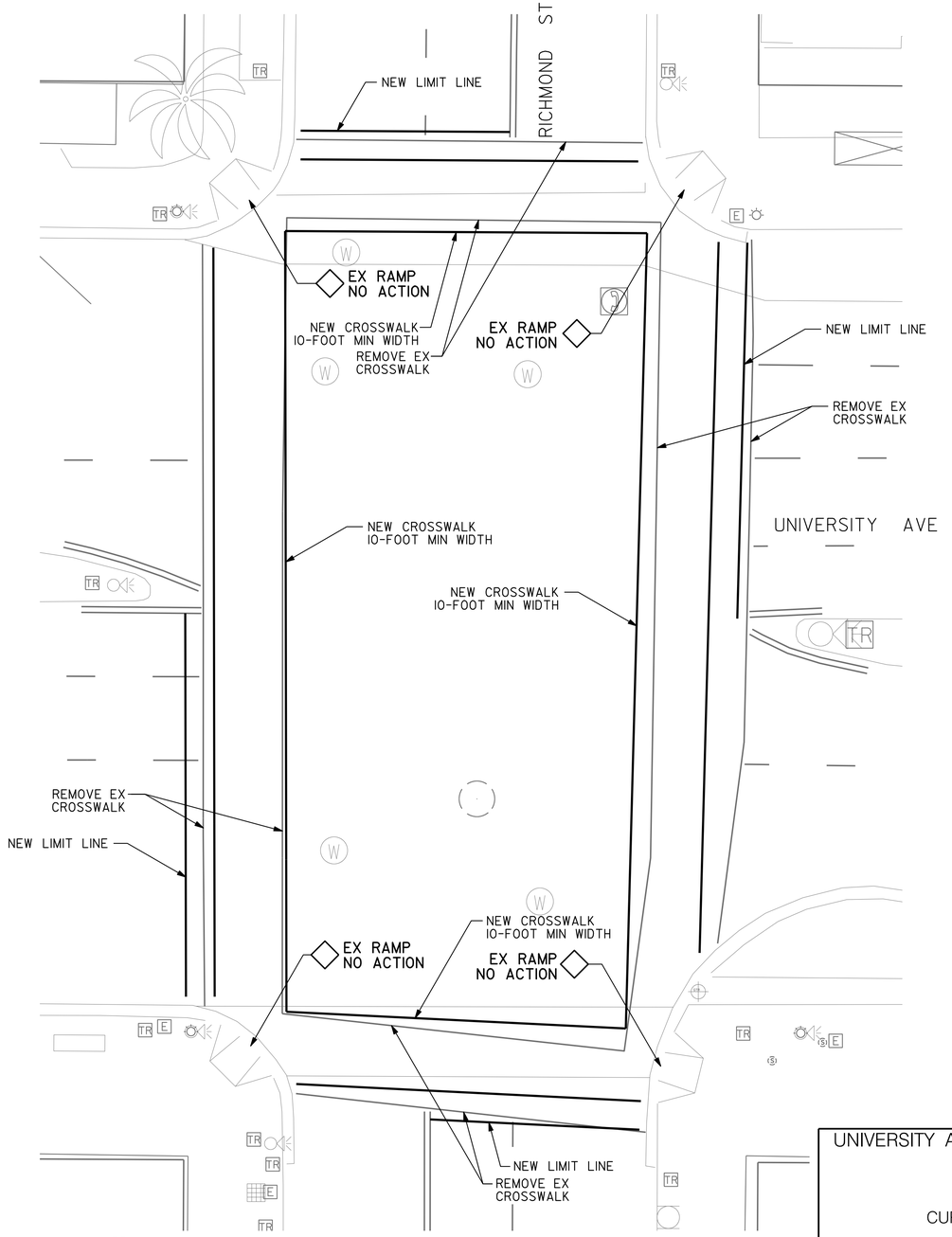
06/09/2014

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C66.dgn
18-JUL-2014 15:44 therencia



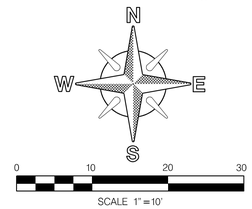
UNIVERSITY AVE AND VERMONT ST
SEE SHEET 27 FOR PLAN AND PROFILE

DETAIL 17
SCALE: 1" = 10' C-56



UNIVERSITY AVE AND RICHMOND ST
SEE SHEET 28 FOR PLAN AND PROFILE

DETAIL 18
SCALE: 1" = 10' C-56



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
JUDSON WARREN
NO. C45272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

CURB RAMP DETAILS 9

C-67

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 9

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 70 OF 86 SHEETS

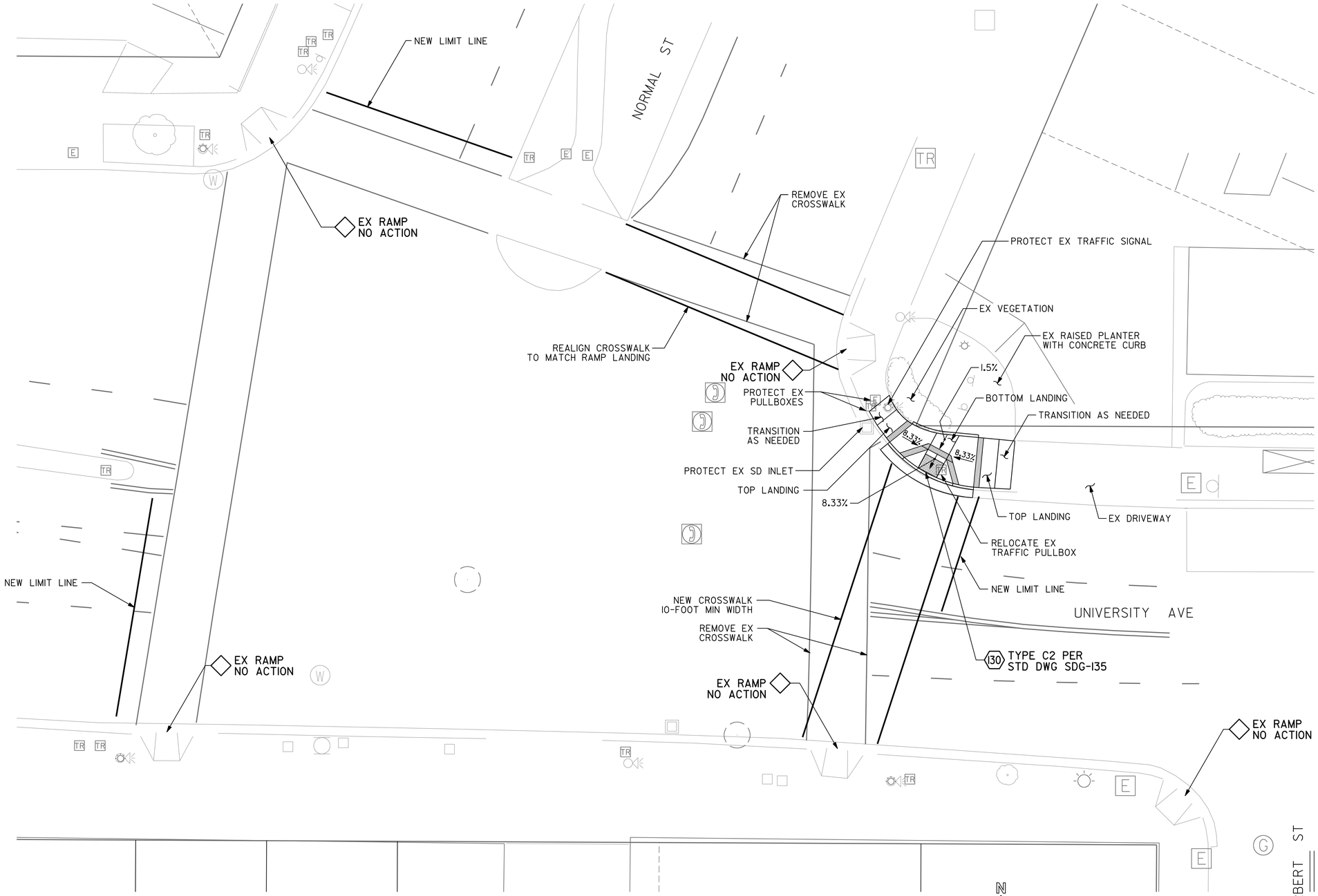
APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS	S-11021
SEWER WBS	N/A
DESIGNED BY	F. Michael Bafouna, PROJECT MANAGER
DRAWN BY	PROJECT ENGINEER
	210-1719 CCS27 COORDINATE
	1850444-6280407 CCS83 COORDINATE
	36656-70-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C67.dgn
18-JUL-2014 15:45 therencia



UNIVERSITY AVE AND NORMAL ST
SEE SHEET 29 FOR PLAN AND PROFILE

DETAIL 19
SCALE: 1" = 10' C-56

N
W E
S

0 10 20 30
SCALE 1" = 10'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
ROBERT JUDSON WARREN
NO. C45272
EXP. 06-31-16
CIVIL
STATE OF CALIFORNIA

06/09/2014

C-68

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 10

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 71 OF 86 SHEETS

APPROVED FOR CITY ENGINEER
IRAJ ASCHARZADEH
PRINT NAME
6-9-2014
DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A

SUBMITTED BY
F. Michael Bagoua
PROJECT MANAGER

RECOMMENDED BY
PROJECT ENGINEER

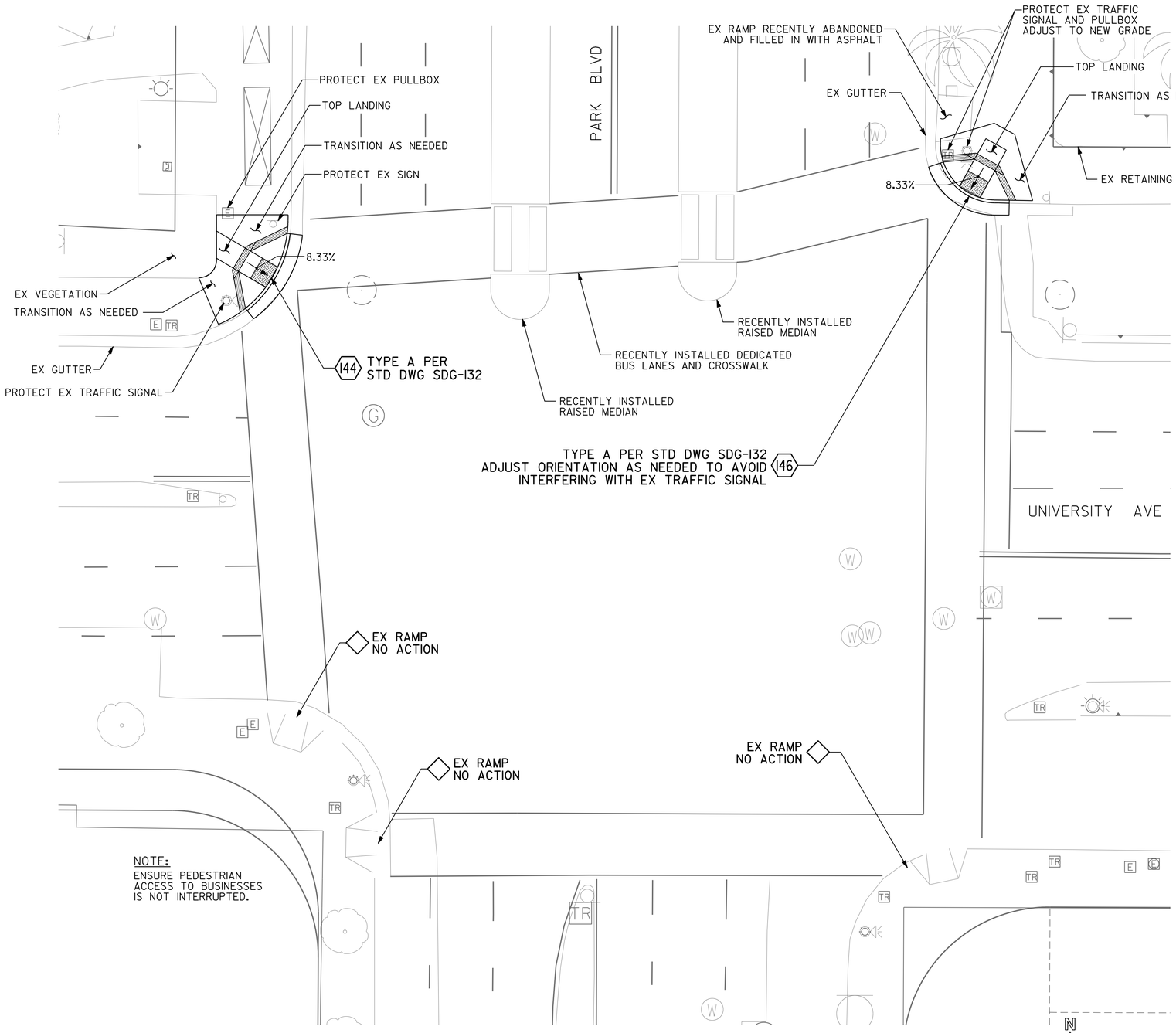
210-1719
CCS27 COORDINATE

1850444-6280407
CCS83 COORDINATE

36656- 71 -D

CURB RAMP DETAILS 10

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C68.dgn
18-JUL-2014 15:45 therencia



UNIVERSITY AVE AND PARK BLVD
SEE SHEET 31 FOR PLAN AND PROFILE

DETAIL	20
SCALE: 1" = 10'	C-56

N W E S

0 10 20 30

SCALE 1" = 10'

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ROBERT JUDSON WARREN NO. C45272 EXP. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

CURB RAMP DETAILS 11

C-69

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 11

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 72 OF 86 SHEETS

APPROVED FOR CITY ENGINEER: IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-11021
SEWER WBS N/A

SUBMITTED BY: F. Michael Bagoua, PROJECT MANAGER

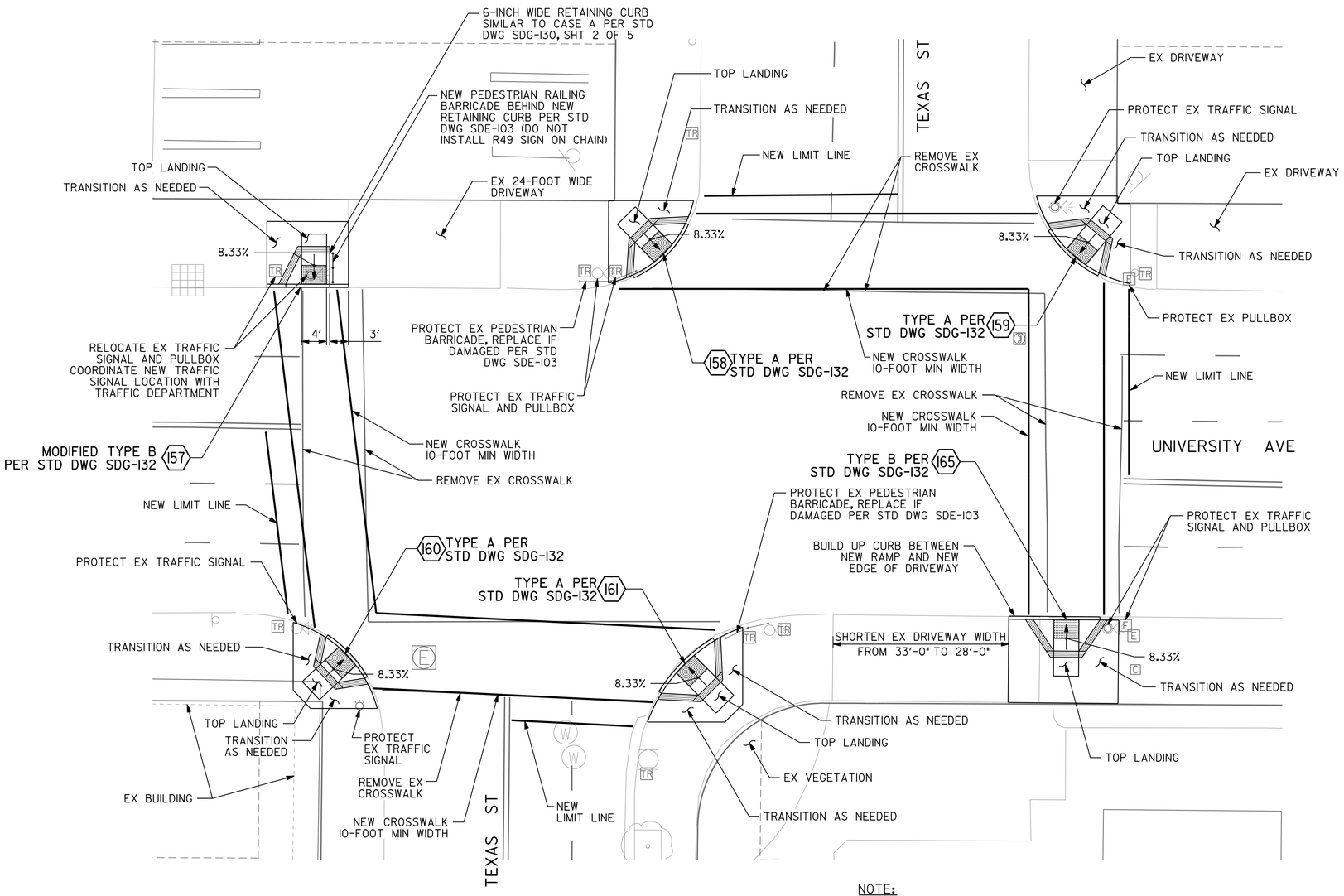
APPROVED BY: Francisco Mendoza, PROJECT ENGINEER

210-1719 CCS27 COORDINATE

1850444-6280407 CCS83 COORDINATE

36656-72-D

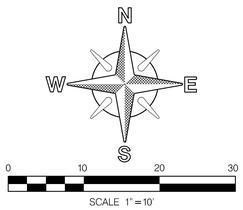
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C69.dgn
18-JUL-2014 15:46 therencia



NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.

UNIVERSITY AVE AND TEXAS ST
SEE SHEET 35 FOR PLAN AND PROFILE

DETAIL	21
SCALE: 1" = 10'	C-57



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER
DAVID JUDSON WILSON
No. C43272
Exp. 06-31-16
CIVIL
STATE OF CALIFORNIA
06/09/2014

CURB RAMP DETAILS 12

C-70

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 12

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 73 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — DATE 6-9-2014
DESIGNED BY F. Michael Bafous PROJECT MANAGER
CHECKED BY Thomas Lo PROJECT ENGINEER

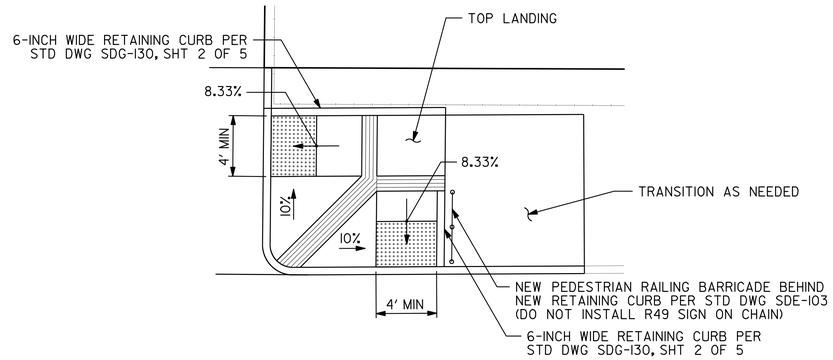
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1725 CCS27 COORDINATE
1850444-6286407 CCS83 COORDINATE

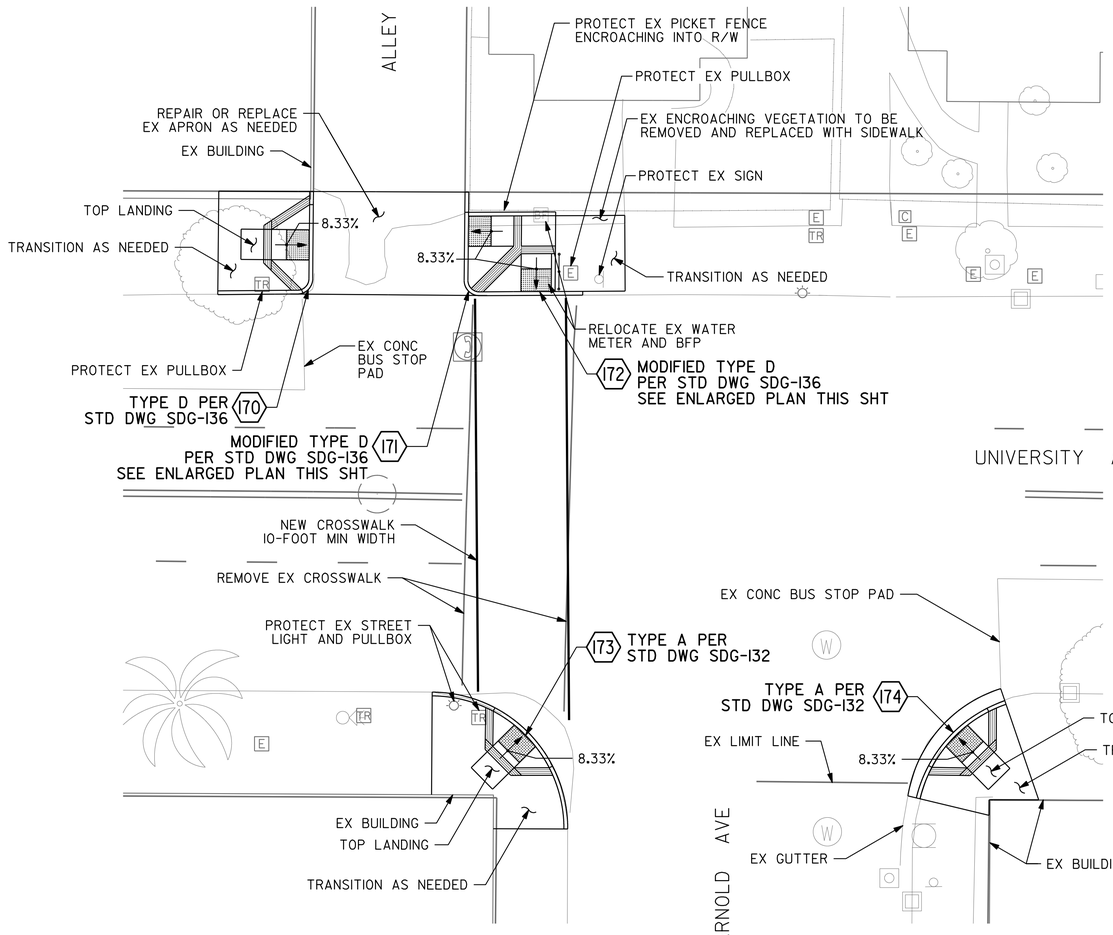
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

36656-73-D

P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C70.dgn
18-JUL-2014 15:46 therencia



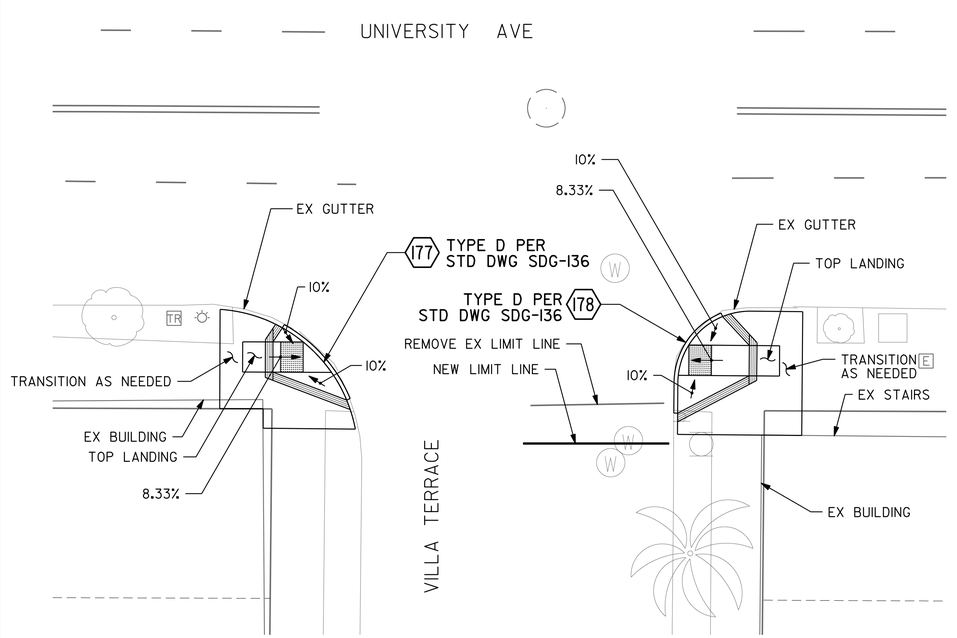
RAMPS 171 AND 172 ENLARGED PLAN
SCALE: 1" = 5'



UNIVERSITY AVE AND ARNOLD AVE
SEE SHEET 36 FOR PLAN AND PROFILE

DETAIL 22
SCALE: 1" = 10' C-57

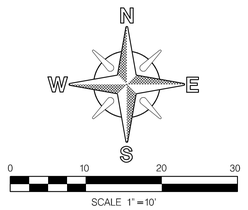
NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.



NOTE:
ENSURE PEDESTRIAN ACCESS TO BUSINESSES IS NOT INTERRUPTED.

UNIVERSITY AVE AND VILLA TERRACE
SEE SHEET 36 FOR PLAN AND PROFILE

DETAIL 23
SCALE: 1" = 10' C-57



Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER ARTHUR JUDSON WATSON No. C45272 Exp. 06-31-16 CIVIL STATE OF CALIFORNIA

06/09/2014

C-71

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

CURB RAMP DETAILS 13

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 74 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

SUBMITTED BY: F. Michael Bafous PROJECT MANAGER

PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

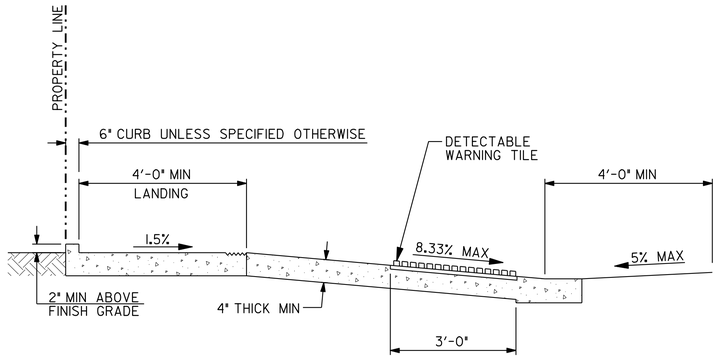
210-1725 CCS27 COORDINATE

1850444-6286407 CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-74-D

CURB RAMP DETAILS 13

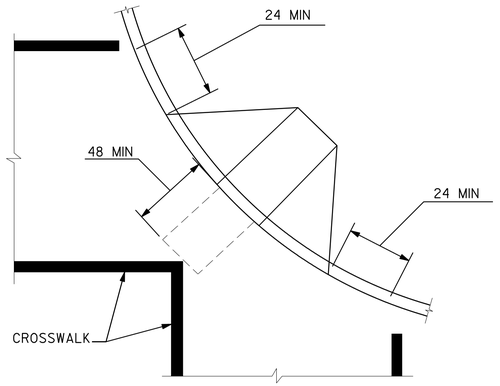


NOTE:

IF THE 4-FOOT 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOESN'T EXCEED 13.3%.

CURB RAMP SLOPE

DETAIL 1 / NO SCALE VAR



NOTE:

CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

DIAGONAL OR CORNER TYPE CURB RAMPS

DETAIL 1 / NO SCALE VAR

TYPICAL CURB RAMP DETAILS

C-72

UNIVERSITY AVE PIPELINE REPLACEMENT

CIVIL

TYPICAL CURB RAMP DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 75 OF 86 SHEETS

WATER WBS S-11021
SEWER WBS N/A

APPROVED FOR CITY ENGINEER IRAJ ASCHARZADEH — DATE 6-9-2014
PRINT NAME

DESIGNED BY F. Michael Bagoua PROJECT MANAGER
CHECKED BY Thomas Rocha PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BC			

210-1725 CCS27 COORDINATE

1850444-6286407 CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

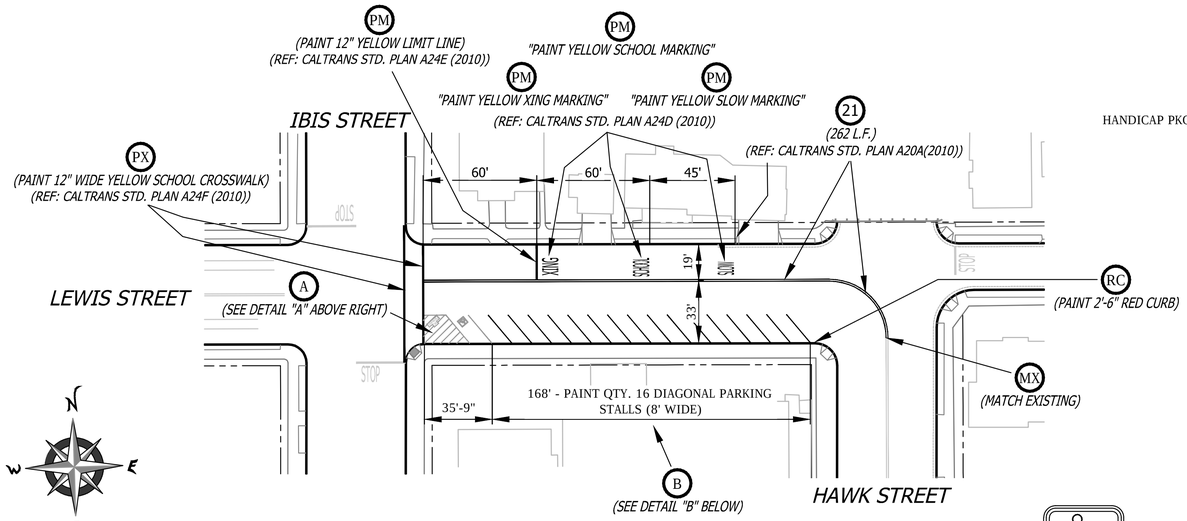
36656-75-D

Brown AND Caldwell

REGISTERED PROFESSIONAL ENGINEER — RUDSON WADE — NO. C43272 — EXP. 06-31-16 — CIVIL — STATE OF CALIFORNIA

06/09/2014

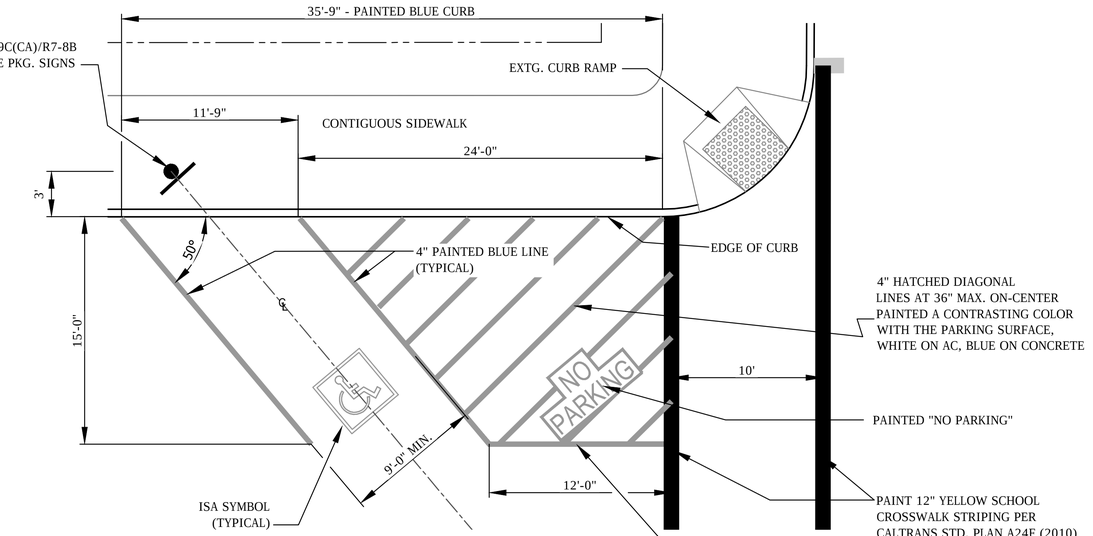
P:\Projects\San Diego, City of (CA)_MWWD 2008-2011 As-Needed\141953 - University Avenue Pipeline\CADD\2-SHEETS\C-CIVIL\36656-C72.dgn
18-JUL-2014 15:47 therencia



FOR LEWIS STREET DRAWING
SCALE: 1"=40'

DETAIL "A"

SCALE: 1" = 5'



HANDICAP ACCESSIBLE PARKING
DIAGONAL SINGLE PARKING STALL

R99C(CA)

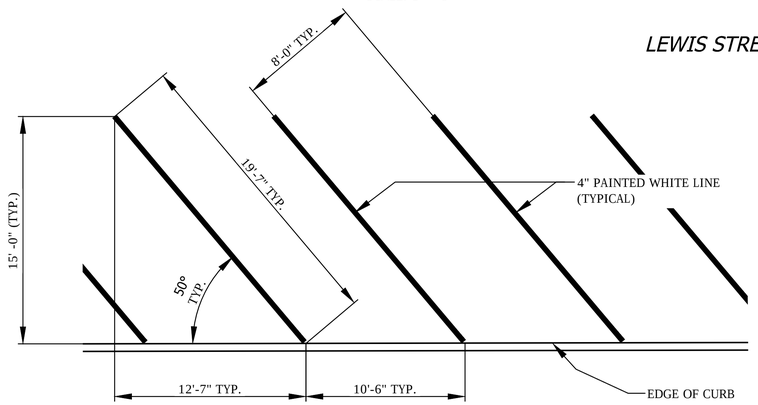
R99(CA)

DETAIL "B"

DIAGONAL SINGLE PARKING STALL

SCALE: 1" = 5'

LEWIS STREET



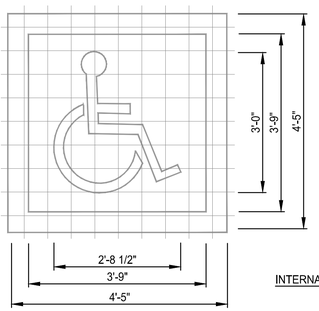
R99B(CA)

R7-8B

HANDICAP ACCESSIBLE PARKING SIGNS

NOTES:
1. POST MOUNTED SIGNS, SEE M-45 FOR BREAK AWAY SIGN POST
2. SIGN SHALL BE CONSTUCTED OF A MINIMUM ⅛" THICK ALUMINUM
3. COLORS:
   BORDER, TEXT, AND SYMBOL-WHITE (RETROREFLECTIVE)
   BACKGROUND-BLUE (RETROREFLECTIVE)
4. FONT: SANS SERIF-CLEARVIEW

(REFERENCE: CITY OF SAN DIEGO STANDARD DRAWING "SDM-117(6)"



INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA)

INTERNATIONAL SYMBOL OF ACCESSIBILITY PAVEMENT SYMBOL SHALL BE PAINTED WHITE ON BLUE BACKGOUND.

BLUE COLOR TO MATCH COLOR A 15090 IN THE FEDERAL STANDARD 595A AS SPECIFIED IN SECTION 522(B) 2.

ISA SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICER WHEN THE VEHICLE IS PARKED IN THE SPACE.

NO PARKING 12"

THE WORDS "NO PARKING SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12" HIGH LOCATED AT THE END OF THE ACCESS AISLE SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS

LEWIS STREET SIGNING & STRIPING

C-73

UNIVERSITY AVE PIPELINE REPLACEMENT
LEWIS STREET
SIGNING AND STRIPING PLAN
IBIS STREET TO HAWK STREET

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 76 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — 6-9-2014 DATE

SUBMITTED BY: F. Michael Bafous PROJECT MANAGER

CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

214-1713 CCS27 COORDINATE

1854444-6274407 CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

36656- 76-D

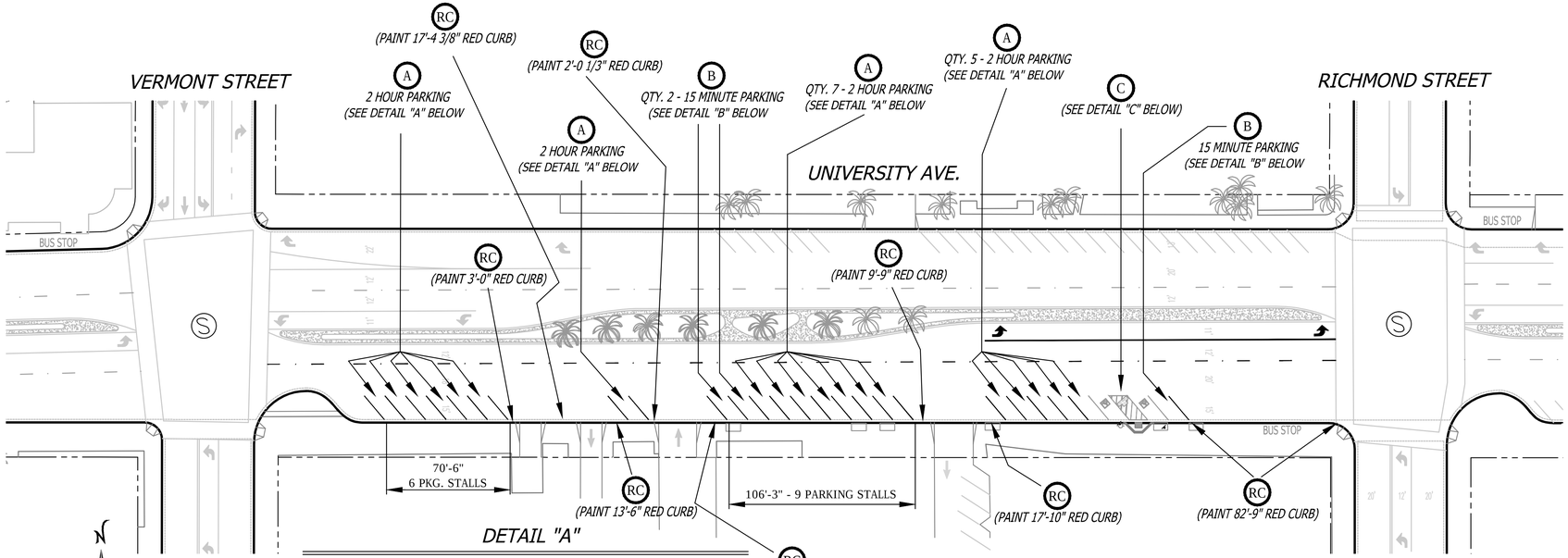
City of San Diego
PUBLIC WORKS PROJECT

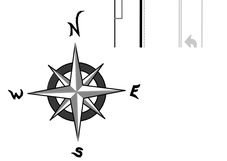
SCALE: 1" = 40'
VERT: N/A
HOR: N/A
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 06/06/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373
DWG NAME: 130601-SS-1A | DATE: 06/06/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

Z:\PROJECTS\130601-UNIVERSITY PIPELINE\TRAFFIC CONTROL JUNE 24 2014\130601-SS-01 THRU SS-03.DWG
24 June 2014 ----

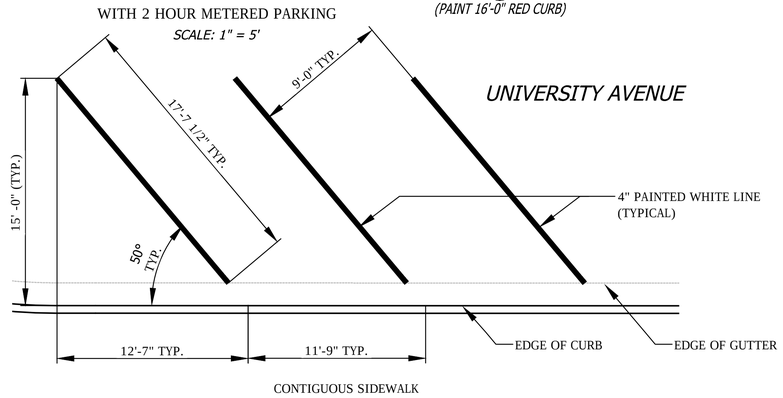




FOR UNIVERSITY AVENUE (ABOVE RIGHT)
SCALE: 1"=40'

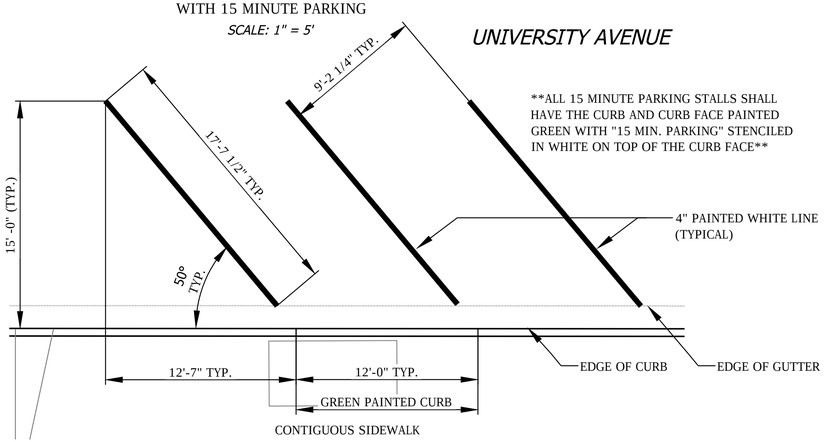
DETAIL "A"

TYPICAL DIAGONAL SINGLE PARKING STALL
WITH 2 HOUR METERED PARKING
SCALE: 1" = 5'



DETAIL "B"

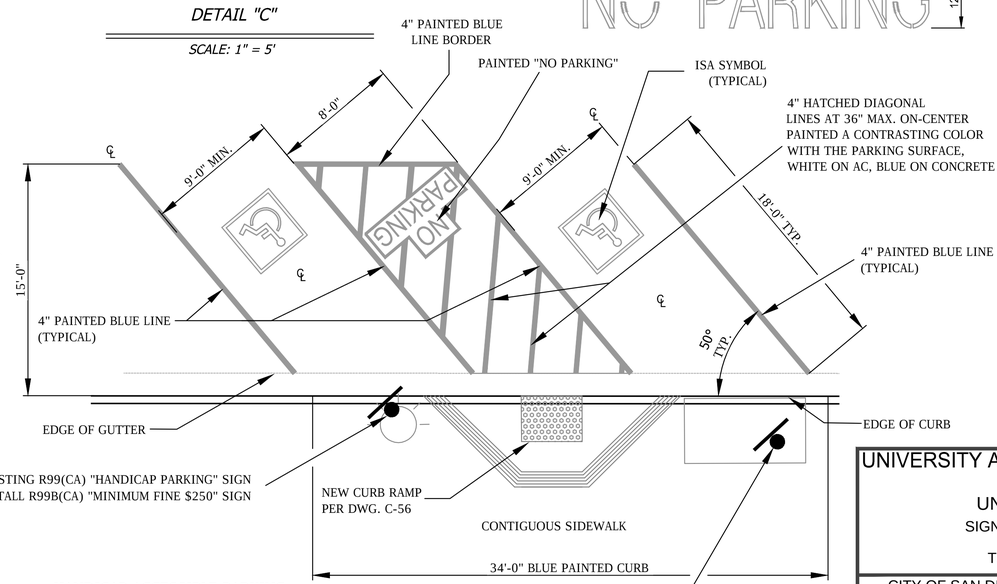
TYPICAL DIAGONAL SINGLE PARKING STALL
WITH 15 MINUTE PARKING
SCALE: 1" = 5'



ALL 15 MINUTE PARKING STALLS SHALL HAVE THE CURB AND CURB FACE PAINTED GREEN WITH "15 MIN. PARKING" STENCILED IN WHITE ON TOP OF THE CURB FACE

DETAIL "C"

SCALE: 1" = 5'



HANDICAP ACCESSIBLE PARKING
DIAGONAL DOUBLE PARKING STALL WITH VAN ACCESSIBILITY

EXISTING R99C(CA)/R7-8B
"HANDICAP PARKING/VAN ACCESSIBLE"
PARKING SIGNS

R99C(CA)

R99(CA)

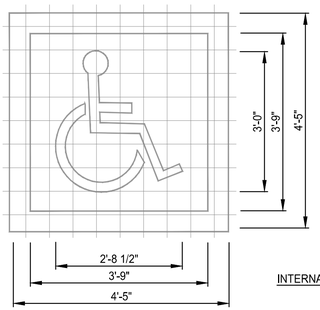
R99B(CA)

R7-8B

HANDICAP ACCESSIBLE PARKING SIGNS

NOTES:
1. POST MOUNTED SIGNS, SEE M-45 FOR BREAK AWAY SIGN POST
2. SIGN SHALL BE CONSTUCTED OF A MINIMUM ⅛" THICK ALUMINUM
3. COLORS:
   BORDER, TEXT, AND SYMBOL-WHITE (RETROREFLECTIVE)
   BACKGROUND-BLUE (RETROREFLECTIVE)
4. FONT: SANS SERIF-CLEARVIEW

(REFERENCE: CITY OF SAN DIEGO STANDARD DRAWING "SDM-117(6)"

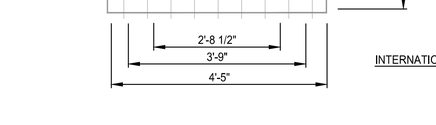


INTERNATIONAL SYMBOL OF ACCESSIBILITY PAVEMENT SYMBOL SHALL BE PAINTED WHITE ON BLUE BACKGOUND.

BLUE COLOR TO MATCH COLOR A 15090 IN THE FEDERAL STANDARD 595A AS SPECIFIED IN SECTION 522(B) 2.

ISA SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICER WHEN THE VEHICLE IS PARKED IN THE SPACE.

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA)



THE WORDS "NO PARKING SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12" HIGH LOCATED AT THE END OF THE ACCESS AISLE SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS

UNIVERSITY AVENUE SIGNING & STRIPING

C-74

UNIVERSITY AVE PIPELINE REPLACEMENT

UNIVERSITY AVENUE
SIGNING AND STRIPING PLAN
VERMONT STREET
TO RICHMOND STREET

City of San Diego
PUBLIC WORKS PROJECT

SCALE: 1" = 40'
VERT: N/A
HOR: N/A
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 06/06/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373
DWG NAME:130601-SS-2A | DATE: 06/06/2014 | BY: DoB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 77 OF 86 SHEETS

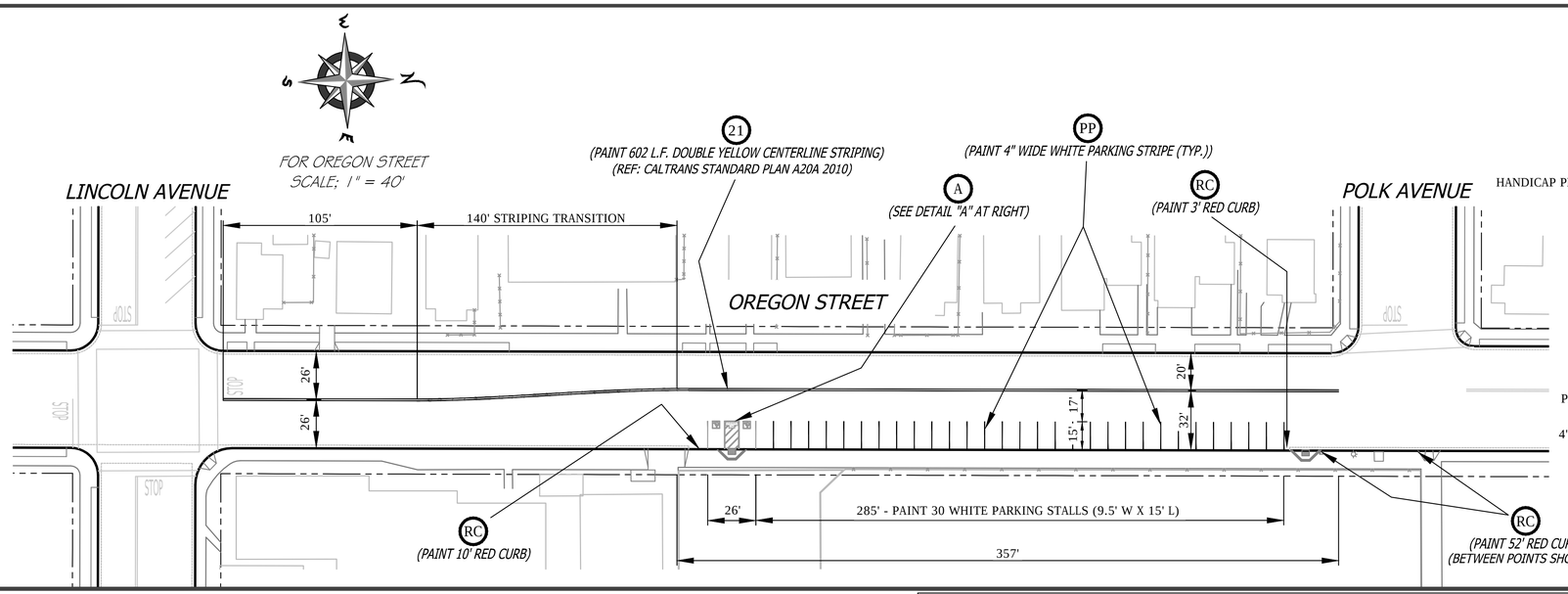
APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH (PRINT NAME) — 6-9-2014 DATE
SUBMITTED BY: F. Michael Baksa PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

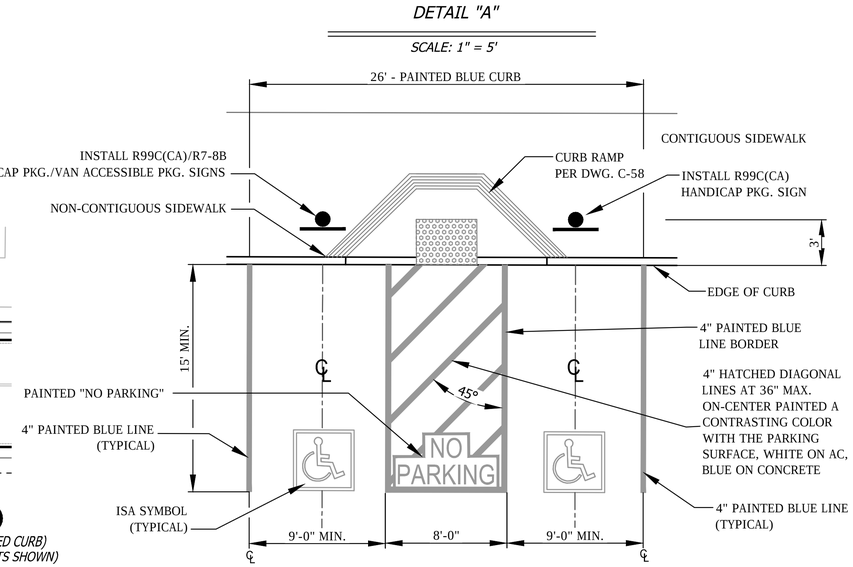
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

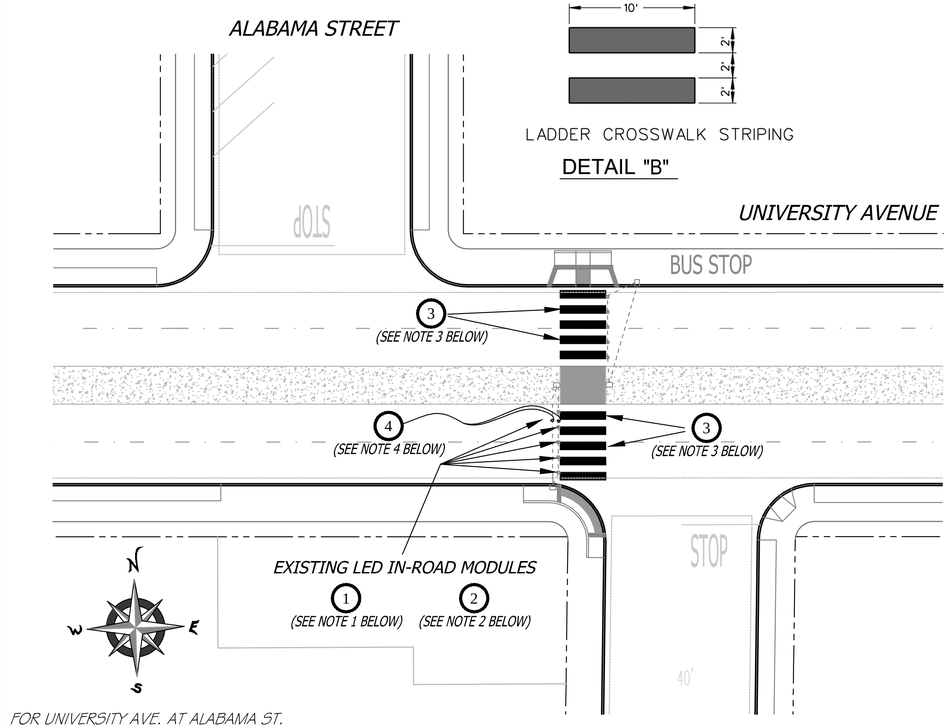
WATER WBS S-1 1021
SEWER WBS N/A
210-1719 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656- 77-D

Z:\PROJECTS\130601-UNIVERSITY PIPELINE\TRAFFIC CONTROL JUNE 24 2014\130601-SS-01 THRU SS-03.DWG
24 June 2014 ----





HANDICAP ACCESSIBLE PARKING
DOUBLE PARKING STALL



FOR UNIVERSITY AVE. AT ALABAMA ST.
SCALE; 1" = 20'

UNIVERSITY AVENUE AT ALABAMA STREET CONSTRUCTION NOTES

1. **PRIOR TO PIPELINE CONSTRUCTION IN THIS AREA, THE CONTRACTOR SHALL DISABLE AND REMOVE THE SWARNCO LANE LIGHT LED ILLUMINATED IN-ROADWAY MODULES (SYSTEM MODEL MLK150).**
2. **UPON RESTORATION OF THE PAVEMENT THE CONTRACTOR SHALL INSTALL THE REMOVED OR REPLACE WITH NEW IN-ROADWAY MODELS TO REACTIVATE THE IN-ROADWAY LIGHTING SYSTEM.**
3. **CONTRACTOR TO INSTALL CROSSWALK WHITE THERMOPLASTIC STRIPING WITH TWO (2') FOOT SEPARATION BETWEEN STRIPES, MINIMUM 30 MILS. (SEE DETAIL B)**
4. **PROTECT IN PLACE EXISTING 2" CONDUIT AND CONDUCTORS**

SWARNCO IN-ROADWAY LIGHT SYSTEM

1. GENERAL

This specification defines the requirements for a hardwired, In-Roadway Light System (IRWL) used for the pedestrian crosswalk operation to alert motorists that they are approaching an active pedestrian crossing. The system consists of the materials for the installation of a hardwired In-Roadway Light System and auxiliary components to support the System, as outlined in this specification.

2. IN-ROADWAY MODULES

In-roadway LED modules are designed to be embedded into the roadway surface and interconnected by direct burial cable hardwired and controlled from other suitable housing.

Module Housing

Mechanical-

The design of the housing shall be such to withstand the weight and constant surface abuse caused by vehicular traffic operating in all-weather environments.

The dimensions of each housing shall not exceed more than 10 square inches in cross-sectional area nor more than 3 inches in overall height. The upper portion of the housing shall not extend more than ¼ inch above the road surface when installed. The housing shall allow for adjustment of the visible display up to 90 degrees in relation to the plane of the interconnection cable.

The upper removable assembly-

Material - Heat treated, M8x20 DIN912 cast A4 stainless steel. The upper LED removable assembly shall attach to the base with stainless steel security screws easily removable for maintenance or replacement and is completely water tight and tested for water ingress to IP68. All electrical terminations shall occur within the IRWL housing. Under no circumstances shall any electrical connection be made in the pavement outside the IRWL housing.

The lower housing-

The lower housing shall be made of an aluminum alloy or other corrosion resistant material tested for a minimum of 5,000 kg compressive strength. It shall be designed to be permanently embedded in the roadway with epoxy or other adhesive material to secure it below the asphalt or concrete surface. There shall be adequate space to accommodate wire terminations or connectors with the interconnect cable.

Lens

Prismatic- Borofloat hardened glass, and shall be uni-directional or bi-directional determined by application.
NO PLASTIC LENS OR BODY COMPONENTS SHALL BE EXPOSED TO TRAFFIC.

3. IN-ROAD INSTALLATION

One 3/8" slot to be cut, 2 1/2" depth; holes, 2 3/4" depth cores cut for each housing, centered over the slot where IRWLs are to be placed. Alternately, manufacturer supplied conduit system may be used for installation in concrete.

IRWL control cable - 14/2-22/2, conductor insulator color code Red, Black, Green, white; .36" o.d. (nominal), with dry water block system; tinned copper conductors; outer jacket labeled specific to the IRWL manufacture..

Sub-Base Encapsulation material. Waterproof connectors: silicon filled w/cap.

Mounting and Bedding; manufacturer approved resilien 1t-setting Epoxy Resin

R99C(CA)

R99(CA)

R99B(CA)

R7-8B

HANDICAP ACCESSIBLE PARKING SIGNS

NOTES:
1. POST MOUNTED SIGNS, SEE M-45 FOR BREAK AWAY SIGN POST
2. SIGN SHALL BE CONSTUCTED OF A MINIMUM ⅛" THICK ALUMINUM
3. COLORS:
   BORDER, TEXT, AND SYMBOL-WHITE (RETROREFLECTIVE)
   BACKGROUND-BLUE (RETROREFLECTIVE)
4. FONT: SANS SERIF-CLEARVIEW
(REFERENCE: CITY OF SAN DIEGO STANDARD DRAWING "SDM-117(6)"

City of San Diego
PUBLIC WORKS PROJECT

SCALE: VARIES
VERT: N/A
HOR: N/A
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
06/06/2014 DATE
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373
DWG NAME: 130601-SS-3A | DATE: 06/06/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

C-75

UNIVERSITY AVE PIPELINE REPLACEMENT
SIGNING AND STRIPING PLAN
OREGON STREET
LINCOLN STREET TO POLK STREET
AND
UNIVERSITY AVENUE
AT ALABAMA STEET

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 78 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — 6-9-2014 DATE
SUBMITTED BY: F. Michael Bafous PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

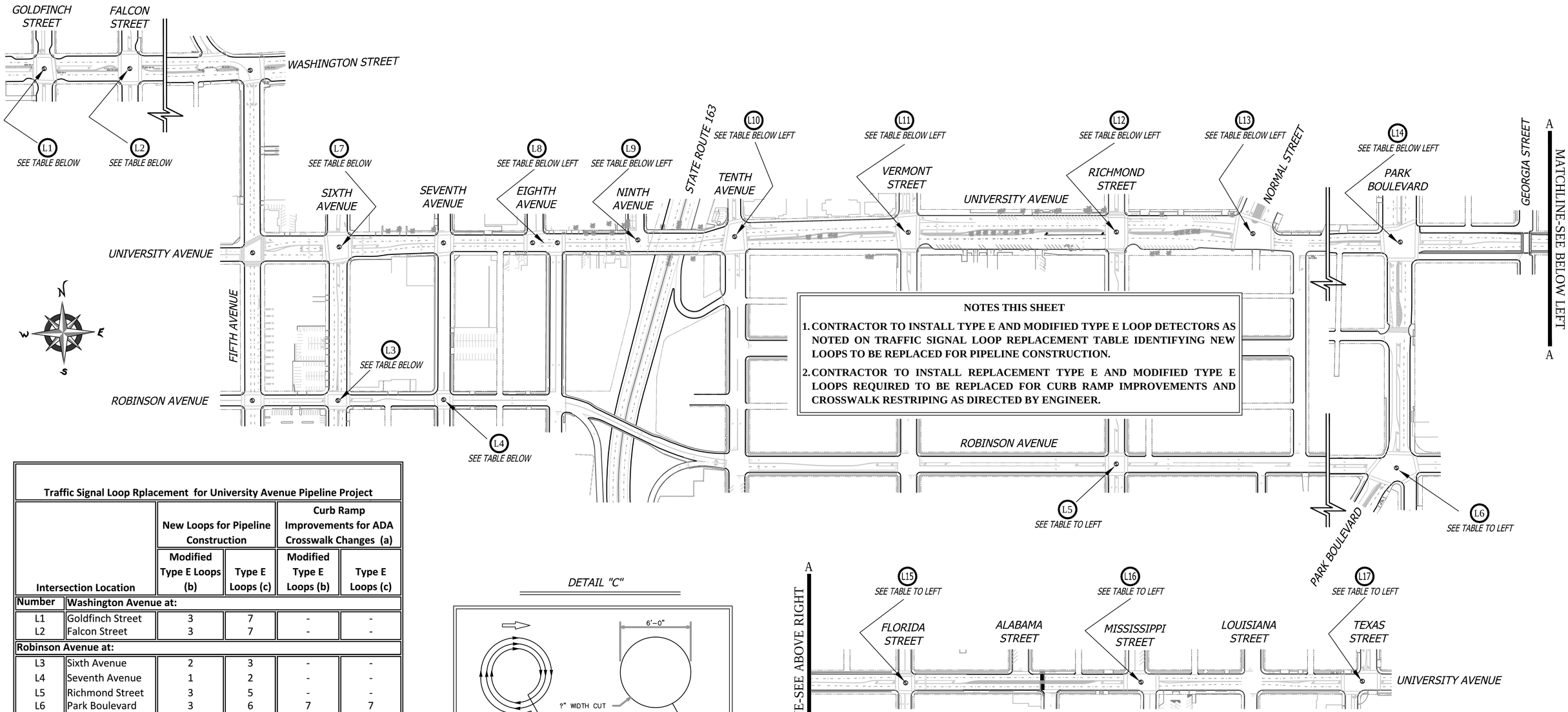
210-1725
CCS27 COORDINATE
1850444-2626407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-78-D

OREGON ST / UNIVERSITY AVE SIGNING & STRIPING

Z:\PROJECTS\130601-UNIVERSITY PIPELINE\TRAFFIC CONTROL JUNE 24 2014\130601-SS-01 THRU SS-03.DWG
24 June 2014 ----

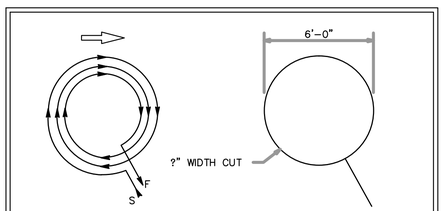


Traffic Signal Loop Rplacement for University Avenue Pipeline Project

Intersection Location		New Loops for Pipeline Construction: Modified Type E Loops (b)	New Loops for Pipeline Construction: Type E Loops (c)	Curb Ramp Improvements for ADA Crosswalk Changes (a): Modified Type E Loops (b)	Curb Ramp Improvements for ADA Crosswalk Changes (a): Type E Loops (c)
Number	**Washington Avenue at:**				
L1	Goldfinch Street	3	7	-	-
L2	Falcon Street	3	7	-	-
Robinson Avenue at:					
L3	Sixth Avenue	2	3	-	-
L4	Seventh Avenue	1	2	-	-
L5	Richmond Street	3	5	-	-
L6	Park Boulevard	3	6	7	7
University Avenue AT:					
L7	Sixth Avenue	3	5	4	8
L8	Eighth Avenue	-	-	4	4
L9	Ninth Avenue	2	4	4	4
L10	Tenth Avenue	4	8	10	18
L11	Vermont Street	3	5	7	8
L12	Richmond Street	4	9	9	24
L13	Normal Street	2	4	4	8
L14	Park Boulevard	3	11	8	16
L15	Florida Street	2	6	-	-
L16	Missippippi Street	2	4	-	-
L17	Texas Street	3	7	7	17
	Grand Total:	**43**	**93**	**64**	**114**

(a) The existing Modified Type E and Type E Loops may have to be replaced. The Engineer will confirm required loop replacement with the Contractor, (b) See Detail B, (c) See Detail C.

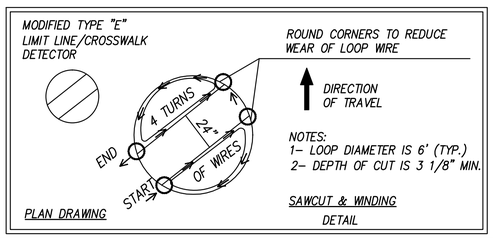
DETAIL "C"



TYPE E LOOP DETECTOR CONFIGURATION

NOTES:
1. Round corners of acute angle sawcuts to prevent damage to conductors.
2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

DETAIL "B"



City of San Diego
PUBLIC WORKS PROJECT

SCALE: 1" = 160'
VERT: N/A
HOR: N/A
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
06/06/2014
DATE
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373
DWG NAME: 130601-LOOPS-4A | DATE: 06/06/2014 | BY: DoB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

C-76

UNIVERSITY AVE PIPELINE REPLACEMENT
TRAFFIC LOOP REPLACEMENT
WASHINGTON STREET
ROBINSON AVENUE
UNIVERSITY AVENUE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 79 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH (PRINT NAME) — 6-9-2014 DATE

WATER WBS S-1 1021
SEWER WBS N/A

DESIGNED BY: F. Michael Bagoua — PROJECT MANAGER
CHECKED BY: Francine Bolla — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

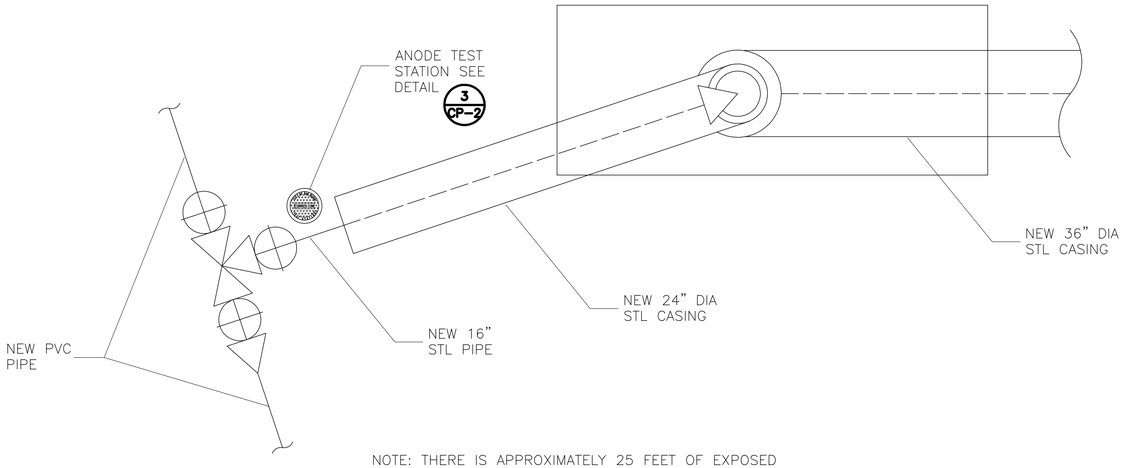
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-79-D

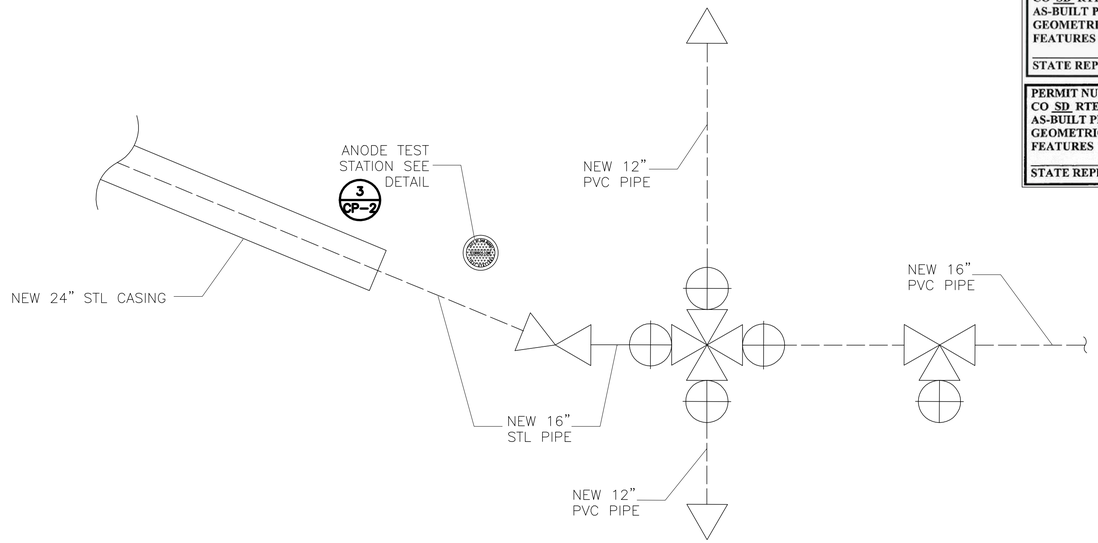
TRAFFIC LOOPS I

Z:\PROJECTS\130601-UNIVERSITY PIPELINE\TRAFFIC CONTROL JUNE 24 2014\130601-TL-04.DWG
24 June 2014 ----



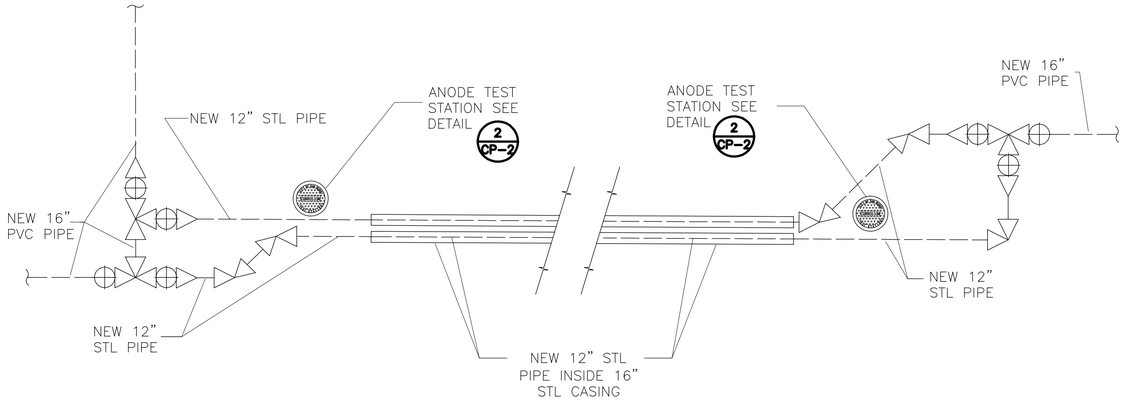
NOTE: THERE IS APPROXIMATELY 25 FEET OF EXPOSED NEW STEEL PIPING PRIOR TO THE CASING.

EIGHTH AVE. AT ROBINSON AVE. 1 –
NTS



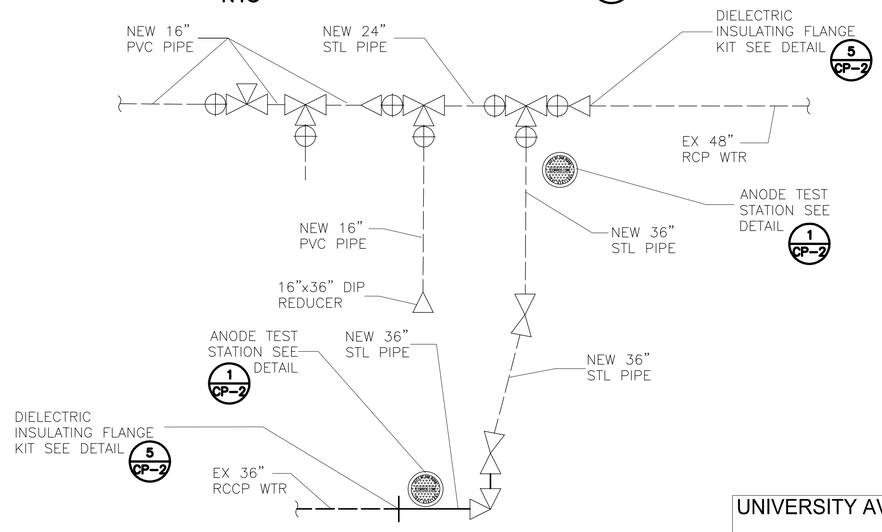
NOTE: THERE IS APPROXIMATELY 25 FEET OF EXPOSED NEW STEEL PIPING PRIOR TO THE CASING.

TENTH AVE. AT ROBINSON AVE. 2 –
NTS



NOTES:
1. THERE IS APPROXIMATELY 25 FEET OF EXPOSED NEW STEEL PIPING PRIOR TO THE CASING.
2. THERE ARE TWO SECTIONS OF NEW 12" STEEL PIPE ON BOTH SIDES OF THE CASING (FOUR IN TOTAL). EACH SECTION IS APPROXIMATELY 25 FEET.

SR-163 BRIDGE CROSSING AT UNIVERSITY AVE. 3 –
NTS



POLK AVE. AT OREGON ST. 4 –
NTS

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

UNIVERSITY AVE PIPELINE REPLACEMENT

CP-1

UNIVERSITY AVE PIPELINE REPLACEMENT

CATHODIC PROTECTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 80 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — DATE 6-9-2014
SUBMITTED BY: J. Michael Bafous PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	V&A			

210-1779 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR — DATE STARTED —
INSPECTOR — DATE COMPLETED —

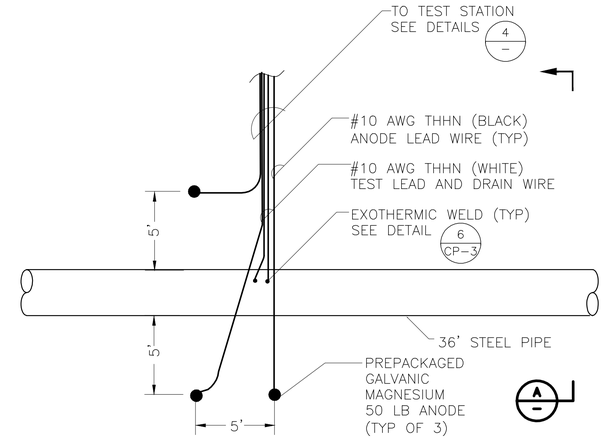
36656-80-D

V&A
11011 Via Frontera, Suite C,
San Diego, CA 92127
Gwillson@vsengineering.com
Tel. (858) 576-0226, Fax (858) 576-0004

REGISTERED PROFESSIONAL ENGINEER
GLENN H. WILSON
NO. CR1076
CORROSION
STATE OF CALIFORNIA

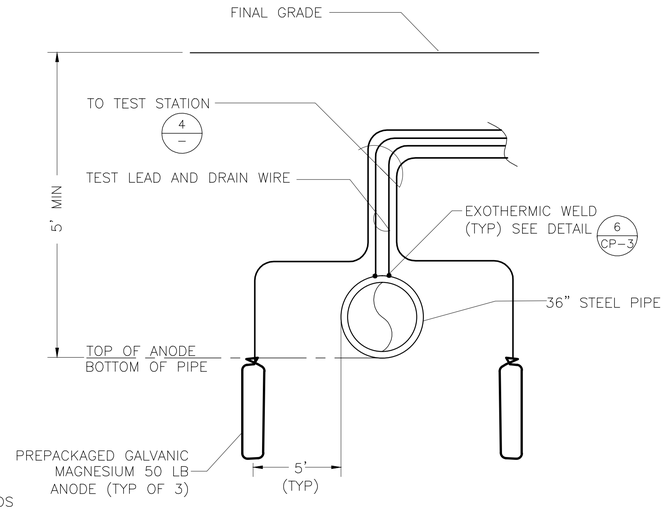
06/09/2014

F:\PROJECTS\2014\0000-0099\14-0095 B&C COFSD PL REPLACEMENT\DRAWINGS\14-0095 CP DETAILS 20140602.DWG
2 June 2014 Theresa

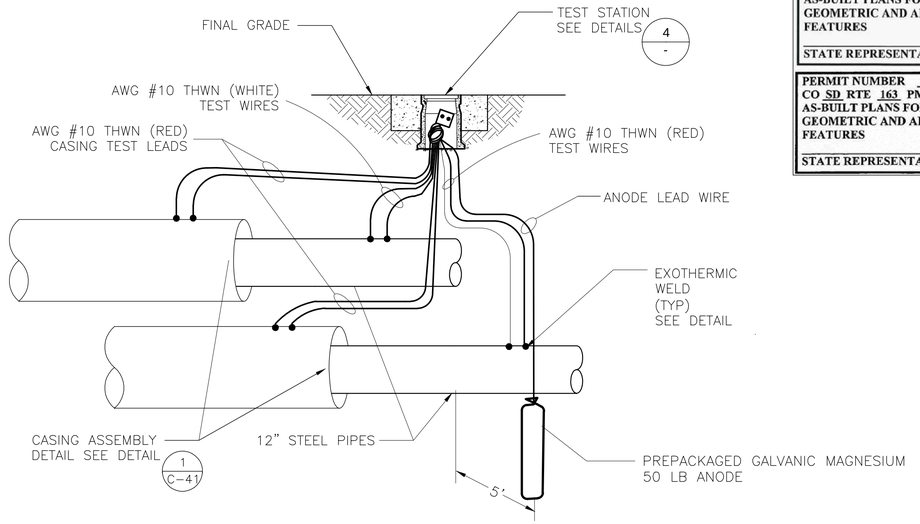


NOTE: TEST STATION MAY ALSO INCLUDE 2 RCP OR 2 RCSP (RED) PIPE TEST LEADS

ANODE TEST STATION (ATS) PLAN 1
NTS



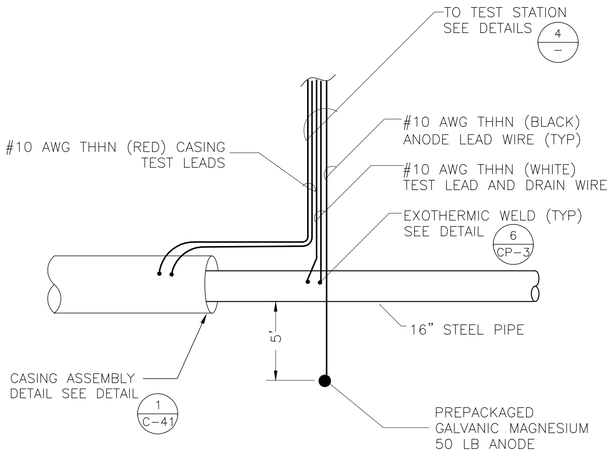
ATS SECTION A
NTS



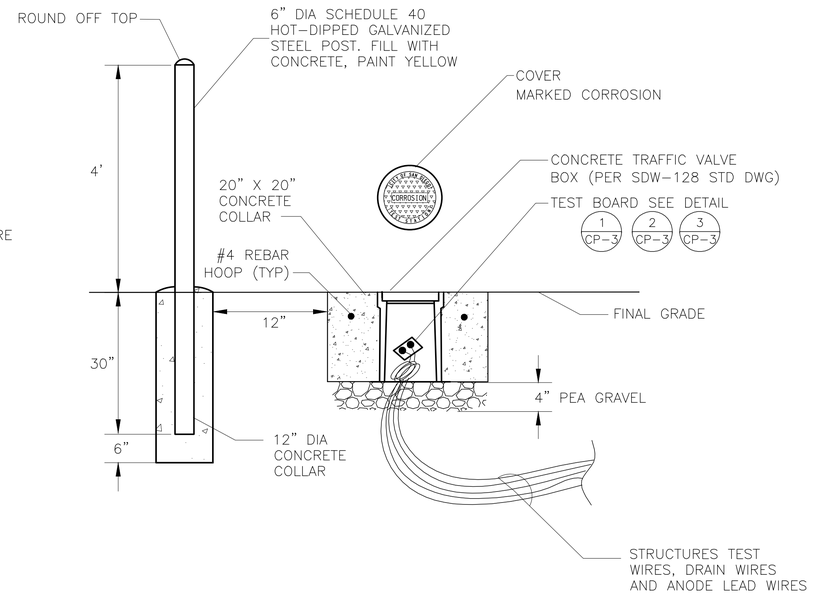
DUAL PIPE ANODE TEST STATION DETAIL 2
NTS

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

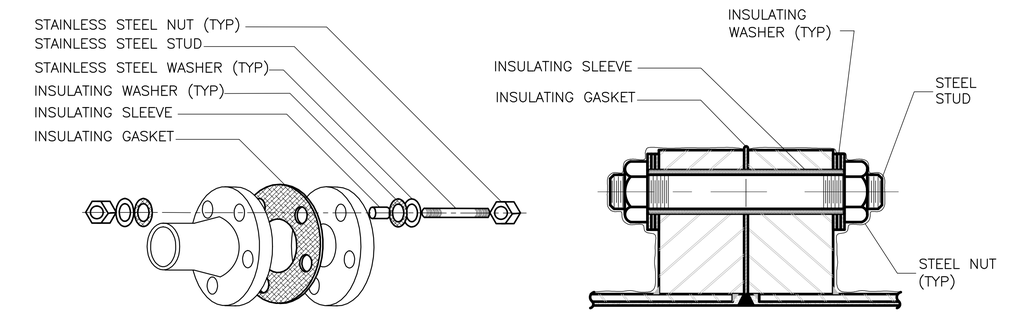
PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE



PIPE ANODE TEST STATION (PATS) PLAN 3
NTS



FLUSH-TO GRADE TEST STATION BOX 4
NTS



DIELECTRIC INSULATING FLANGE KIT 5
NTS

CP-2

UNIVERSITY AVE PIPELINE REPLACEMENT

CATHODIC PROTECTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 81 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH (PRINT NAME) 6-9-2014 DATE
SUBMITTED BY: F. Michael Bafous PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	V&A			

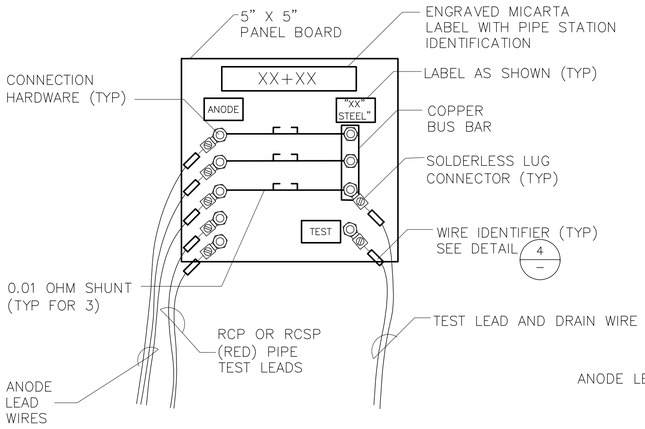
210-1779 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

36656-81-D

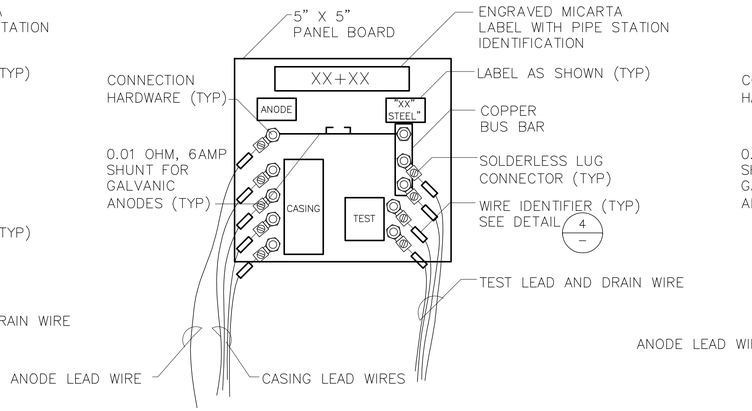
REGISTERED PROFESSIONAL ENGINEER
GLENN H. WILSON
NO. CR1076
CORROSION
STATE OF CALIFORNIA
06/09/2014

V&A
11011 Via Frontera, Suite C,
San Diego, CA 92127
Gwilson@vaengineering.com
Tel: (858) 576-0226, Fax (858) 576-0004



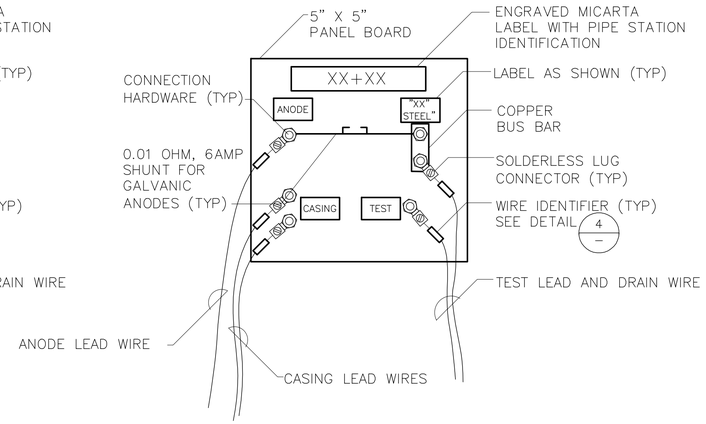
NOTE: RCP AND RCSP TEST LEADS ARE ONLY TO BE INCLUDED AT LOCATIONS WHERE ELECTRICAL ISOLATION IS BEING INSTALLED BETWEEN THE STEEL AND RCP/RCSP PIPING.

ATS TEST BOARD 1
NTS

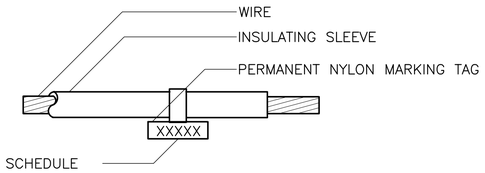


NOTE: EACH PIPELINE WILL HAVE ONE WIRE CONNECTED TO THE DRAIN COPPER BUS BAR AND ONE WIRE DESIGNATED AS A TEST WIRE

DUAL PIPE ANODE TEST BOARD 2
NTS



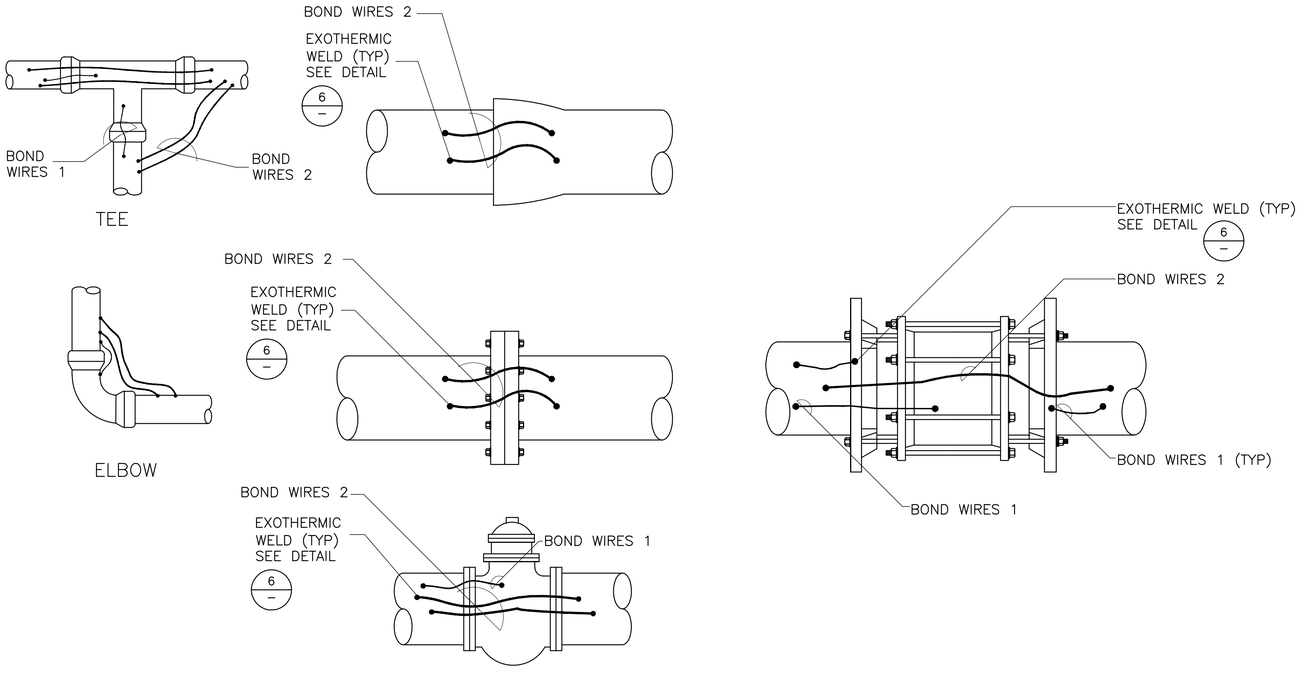
PIPE ANODE TEST BOARD 3
NTS



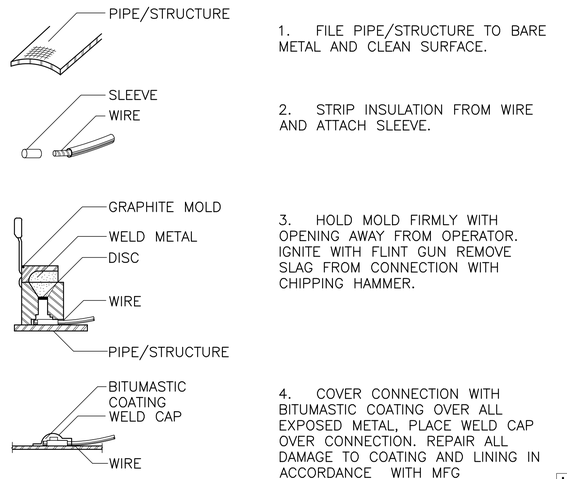
STRUCTURE	LABEL
XX" CASING	CSG
XX" STEEL WATER LINE	XX" ST
GALVANIC ANODE	ANODE

NOTE: XX" REFERS TO PIPE/CASING DIAMETER

WIRE IDENTIFIER 4
NTS



JOINT BONDS 5
NTS



1. FILE PIPE/STRUCTURE TO BARE METAL AND CLEAN SURFACE.

2. STRIP INSULATION FROM WIRE AND ATTACH SLEEVE.

3. HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR. IGNITE WITH FLINT GUN REMOVE SLAG FROM CONNECTION WITH CHIPPING HAMMER.

4. COVER CONNECTION WITH BITUMASTIC COATING OVER ALL EXPOSED METAL, PLACE WELD CAP OVER CONNECTION. REPAIR ALL DAMAGE TO COATING AND LINING IN ACCORDANCE WITH MFG RECOMMENDATIONS.

EXOTHERMIC WELD 6
NTS

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

PERMIT NUMBER 11-14-NUB-0038
CO SD RTE 163 PM 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

UNIVERSITY AVE PIPELINE REPLACEMENT

CP-3

UNIVERSITY AVE PIPELINE REPLACEMENT

CATHODIC PROTECTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 83 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — 6-9-2014 DATE

SUBMITTED BY: F. Michael Bafous PROJECT MANAGER

CHECKED BY: PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	V&A			

210-1779 CCS27 COORDINATE

1850444-6280407 CCS83 COORDINATE

CONTRACTOR DATE STARTED

INSPECTOR DATE COMPLETED

36656-82-D

V&A
11011 Via Frontera, Suite C,
San Diego, CA 92127
Gwillson@vsengineering.com
Tel. (858) 576-0226, Fax (858) 576-0004

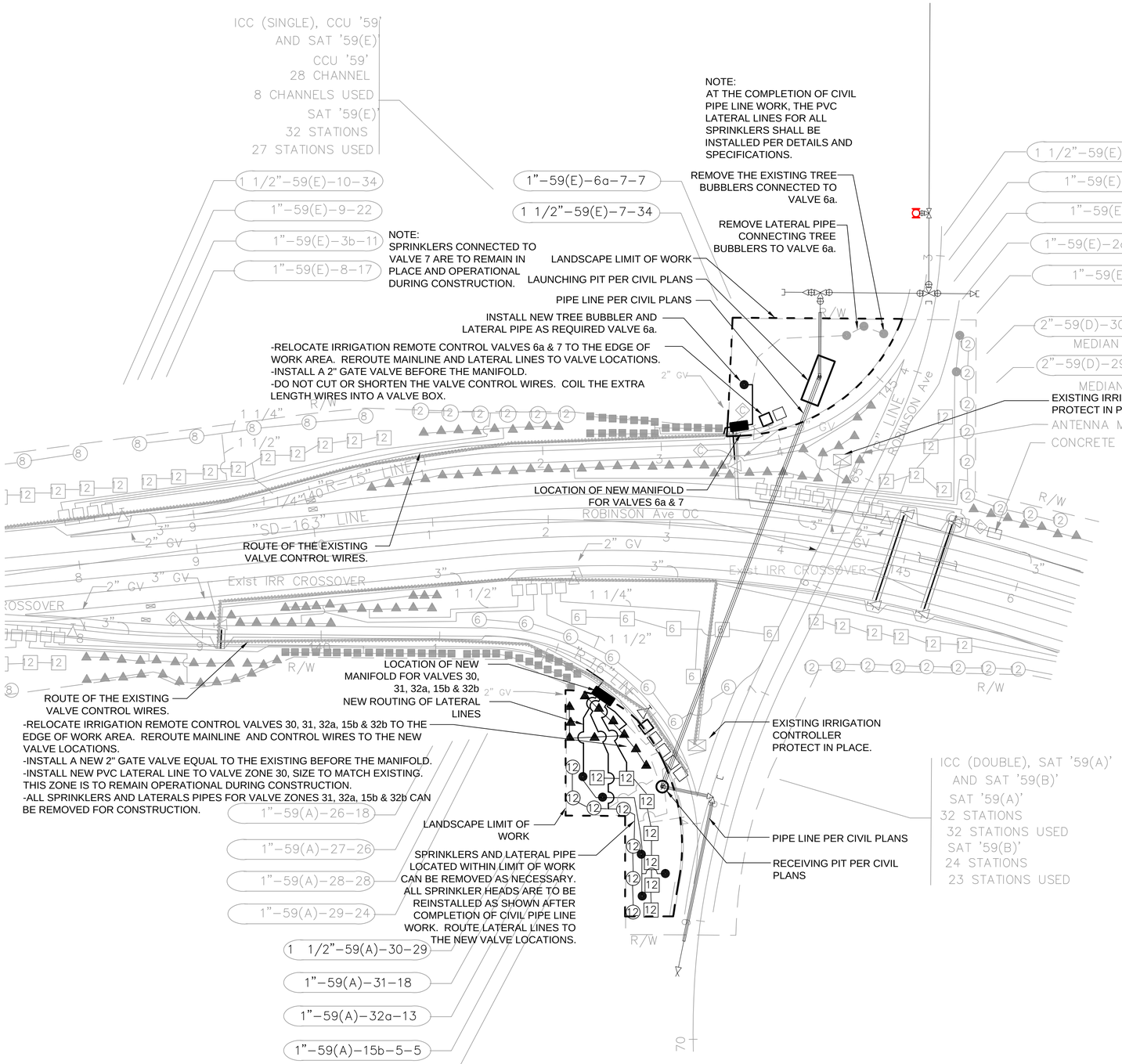
REGISTERED PROFESSIONAL ENGINEER
GLENN H. WILSON
NO. CR1076
CORROSION
STATE OF CALIFORNIA

06/09/2014

F:\PROJECTS\2014\0000-0099\14-0095 B&C COFSD PL REPLACEMENT\DRAWINGS\14-0095 CP DETAILS 20140602.DWG
2 June 2014 Thevencia

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PL 2.49
AS-BULIT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



EQUIPMENT NOTES:
1. PRIOR TO RELOCATING ANY REMOTE CONTROL VALVES, CONTRACTOR SHALL CONFIRM THAT THE VALVES ARE IN OPERATIONAL AND SERVICEABLE CONDITION. ANY VALVE FOUND IN POOR CONDITION SHALL BE REPLACED WITH A NEW EQUAL MODEL.
2. ALL IRRIGATION HEADS INSTALLED AFTER PIT AND PIPE CONSTRUCTION PER THIS PLAN SHALL BE NEW EQUAL MODELS OF WHAT WAS REMOVED PRIOR TO PIT AND PIPE CONSTRUCTION.
3. ALL REMOTE CONTROL VALVES ARE TO INSTALLED WITH NEW PIPE FITTINGS AND WIRE CONNECTIONS PER DETAILS AND SPECIFICATIONS.
4. NEW VALVE BOXES, EQUAL TO THE EXISTING, WILL BE INSTALLED AT ALL RELOCATED VALVES PER DETAILS AND SPECIFICATIONS.
5. ALL NEW IRRIGATION PIPING SHALL BE EQUAL IN SIZE TO THE EXISTING. THE PIPE SIZES SHALL BE NOTED BY THE CONTRACTOR DURING REMOVAL.
6. CONTRACTOR SHALL CREATE AS-BUILT DRAWINGS FOR ALL RELOCATED EQUIPMENT.
7. ALL PVC PIPING SHALL BE SCHEDULE 40 AND 1" MINIMUM SIZE.
8. ALL VEGETATION THAT IS NOT DIRECTLY IMPACTED BY CONSTRUCTION ACTIVITIES, BUT DOES HAVE WATER SHUT-OFF DUE TO CONSTRUCTION ACTIVITIES, MUST BE TRUCK WATERED 3 TIMES A WEEK WHILE THE IRRIGATION IS NOT OPERATIO NAL.

NOTES:
1. CONTRACTOR SHALL REMOVE OR RELOCATE ALL IRRIGATION WITHIN THE LANDSCAPE LIMIT OF WORK EXCEPT FOR ITEMS NOTED PRIOR TO THE COMMENCEMENT OF PIT AND PIPE CONSTRUCTION.
2. CONTRACTOR SHALL TAKE ALL CARE TO PROTECT AND AVOID ANY DAMAGE TO EXISTING IRRIGATION MATERIAL TO BE PROTECTED IN PLACE WITHIN THE LANDSCAPE LIMIT OF WORK AS WELL AS ALL IRRIGATION MATERIAL LOCATED OUTSIDE OF THE LANDSCAPE LIMIT OF WORK. CONTRACTOR SHALL REPLACE ANY MATERIAL NOT TO BE REMOVED THAT IS DAMAGED DURING CONSTRUCTION WITHIN 7 DAYS AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL INSTALL NEW IRRIGATION MATERIAL AFTER PIT AND PIPE CONSTRUCTION IS COMPLETED AS SHOWN ON THIS IRRIGATION REPLACEMENT PLAN.
4. CONTRACTOR SHALL OBSERVE ALL ESTABLISHMENT AND MAINTENANCE PERIODS AS CALLED FOR IN THE PROJECT WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL REFER TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF SAN DIEGO WRITTEN SPECIFICATIONS, AND PROJECT SSP FOR FURTHER INFORMATION ON METHODS AND MATERIALS.

SPRINKLER SCHEDULE:

SYMBOL	DESCRIPTION	RADIUS	GPM	PATTERN	
⑫	GEAR DRIVE ROTOR	25'	1.8	FULL	
[12]	GEAR DRIVE ROTOR	25'	1.8	PART	
▲	SHRUB SPRAY	15'	3.7	FULL	
▲	SHRUB SPRAY	15'	1.8	PART	
●	FLOOD BUBBLER	-	1.0	-	

NOTES:
1. ALL SPRINKLERS HEADS SHALL HAVE AN INTERNAL OR EXTERNAL CHECK VALVE.
2. REFER TO EQUIPMENT NOTES FOR TYPE OF IRRIGATION HEADS.

ALL FADED LINES ARE EXISTING IRRIGATION AND ARE TO REMAIN - PROTECT IN PLACE

L-1

IRRIGATION PLAN

DIGALERT
DIAL BEFORE YOU DIG
TOLL FREE 1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

The private landscape architect signing these plans is responsible for assuring the accuracy and acceptability of the design hereon. In the event of discrepancies arising after city approval or during construction, the private landscape architect shall be responsible for determining an acceptable solution and revising the plans for approval by the county.

MARK	BY	DATE	REVISIONS	APPR.	DATE
ENGINEER				COUNTY	

RHA LANDSCAPE ARCHITECTS PLANNERS, INC
6780 INDIANA AVE., SUITE 160
RIVERSIDE, CALIFORNIA
92506
LIC. #1512
PH. (951) 781-1930
FAX (951) 686-8091

SEAL-LANDSCAPE ARCHITECT

LICENSED LANDSCAPE ARCHITECT — DOUGLAS GROVE NO. 2978 — Signature 11/20/13 — Renewal Date 8/31/14 — Date — STATE OF CALIFORNIA

UNIVERSITY AVE PIPELINE REPLACEMENT
IRRIGATION DEMO AND REPLACEMENT PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 83 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASCHARZADEH PRINT NAME — DATE 6-9-2014

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RHA			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-1 1021
SEWER WBS N/A
SUBMITTED BY: F. Michael Baigova PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER
210-1779 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-83-D

N:\PROJECTS\14PRJ\14108 UNIVERSITY AVENUE PIPELINE (BROWN & CALDWELL)\AUTOCAD\RHA\14108_IRR DEMO.DWG
22 April 2014 Therencia

[One Inch on Original Sheet] Drawing File: N:\Projects\14prj\14108 University Avenue Pipeline (Brown & Caldwell)\AutoCAD\RHA\ 14108_IRR DEMO Jul 21, 2014 - 10:02am

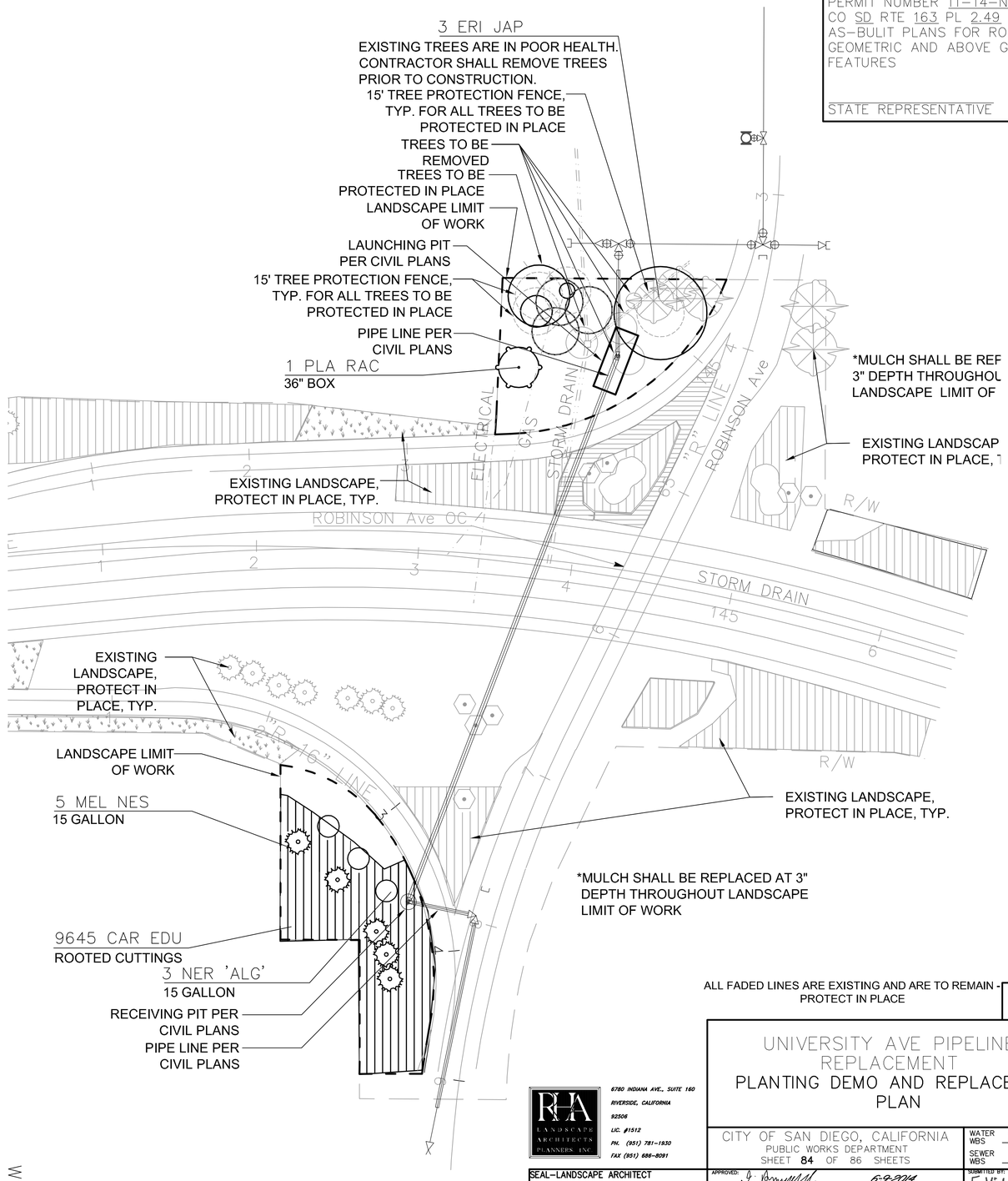
PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PL 2.49
AS-BULIT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

PLANT LEGEND

ABBREVIATION	BOTANIC NAME	QUANTITY	SIZE	DETAIL
CAR EDU	CARPOBROTUS EDULIS	9645	ROOTED CUTTINGS	C/L-4
MEL NES	MELALEUCA NESOPHILA	5	15 GALLON	B/L-4
NER 'ALG'	NERIUM OLEANDER 'ALGIERS'	3	15 GALLON	B/L-4
PLA RAC	PLATANUS RACEMOSA	1	36" BOX	A/L-4
MULCH	3" MEDIUM GRIND CEDAR MULCH			

NOTES:
1. CONTRACTOR SHALL REMOVE ALL PLANTING WITHIN THE LANDSCAPE LIMIT OF WORK EXCEPT FOR THOSE TREES LABELED PROTECT IN PLACE PRIOR TO THE COMMENCEMENT OF PIT AND PIPE CONSTRUCTION.
2. CONTRACTOR SHALL TAKE ALL CARE TO PROTECT AND AVOID ANY DAMAGE TO EXISTING PLANT MATERIAL LABELED TO BE PROTECTED IN PLACE WITHIN THE LANDSCAPE LIMIT OF WORK AS WELL AS ALL PLANT MATERIAL LOCATED OUTSIDE OF THE LANDSCAPE LIMIT OF WORK. CONTRACTOR SHALL REPLACE ANY MATERIAL NOT TO BE REMOVED THAT IS DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL INSTALL NEW PLANT MATERIAL AFTER PIT AND PIPE CONSTRUCTION IS COMPLETED AS SHOWN ON THIS PLAN.
4. CONTRACTOR SHALL OBSERVE ALL ESTABLISHMENT AND MAINTENANCE PERIODS AS CALLED FOR IN THE PROJECT WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL REFER TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF SAN DIEGO WRITTEN SPECIFICATIONS, AND PROJECT SSP FOR FURTHER INFORMATION ON METHODS AND MATERIALS.
6. ALL TREES REMOVED PER PLAN SHALL BE CHIPPED AND SPREAD IN THE WESTERN ON RAMP AREA PER CITY OF SAN DIEGO WRITTEN SPECIFICATIONS, AND PROJECT SSP.
7. AL NEW TREES SHALL BE INSTALLED A MINIMUM DISTANCE FROM UTILITIES AS FOLLOWS: 5' FROM GAS AND STORM DRAIN LINES, 30' FROM ROADWAY, AND 10' FROM OVERHEAD UTILITIES AND SEWER.



PLANTING PLAN

ALL FADED LINES ARE EXISTING AND ARE TO REMAIN - PROTECT IN PLACE

L-2

DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

The private landscape architect signing these plans is responsible for assuring the accuracy and acceptability of the design hereon. In the event of discrepancies arising after city approval or during construction, the private landscape architect shall be responsible for determining an acceptable solution and revising the plans for approval by the county.

MARK	BY	DATE	REVISIONS	APPR.	DATE

ENGINEER COUNTY

RHA LANDSCAPE ARCHITECTS PLANNERS, INC
6780 INDIANA AVE., SUITE 160
RIVERSIDE, CALIFORNIA
92506
LIC. #1512
PH. (951) 781-1930
FAX (951) 686-8091

SEAL-LANDSCAPE ARCHITECT

LICENSED LANDSCAPE ARCHITECT
DOUGLAS GROVE NO. 5778
Signature
11/20/15
Renewal Date
8/9/14
Date
STATE OF CALIFORNIA

UNIVERSITY AVE PIPELINE REPLACEMENT
PLANTING DEMO AND REPLACEMENT PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 84 OF 86 SHEETS

APPROVED: _____ 6-9-2014
FOR CITY ENGINEER DATE
IRAJ ASGHARZADEH
PRINT NAME

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RHA			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

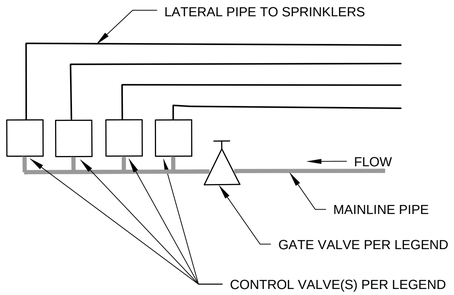
WATER WBS S-1 1021
SEWER WBS N/A
SUBMITTED BY: F Michael Bafous PROJECT MANAGER
CHECKED BY: Therencia Bolton PROJECT ENGINEER
210-1779 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-84-D

N:\PROJECTS\14PRJ\14108 UNIVERSITY AVENUE PIPELINE (BROWN & CALDWELL)\AUTOCAD\RHA\14108_PLANTING DEMO.DWG
22 April 2014 Therencia

[One Inch on Original Sheet] Drawing File: N:\Projects\14prj\14108 University Avenue Pipeline (Brown & Caldwell)\AutoCAD\RHA\ 14108_PLANTING DEMO Jul 17, 2014 - 11:04am

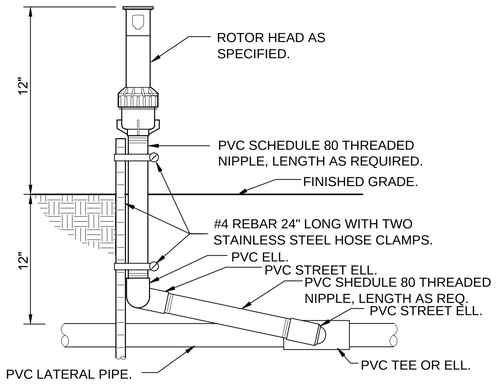
PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PL 2.49
AS-BULIT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



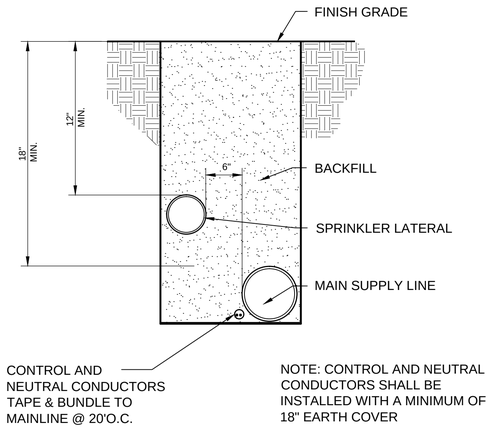
-VALVE BOXES TO BE SPACED 2' ON-CENTER
-CONTROL VALVE BOXES TO OFFSET 3' FROM EDGE OF PAVEMENT.

G IRRIGATION VALVE MANIFOLD DETAIL



E SHRUB ROTOR ON FIXED RISER

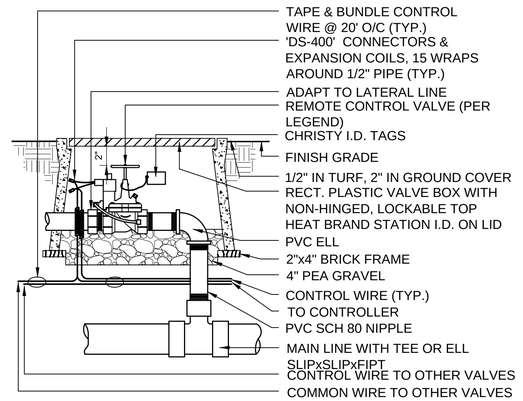
3" = 1'-0" 328403.33-01



NOTE: CONTROL AND NEUTRAL CONDUCTORS SHALL BE INSTALLED WITH A MINIMUM OF 18" EARTH COVER

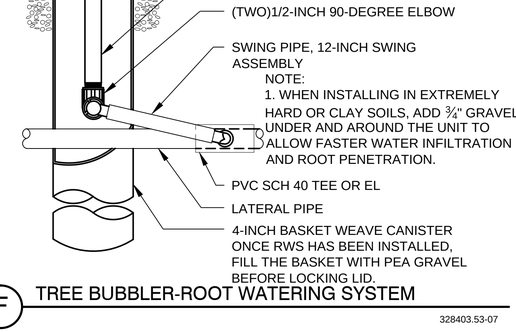
C PIPE AND WIRE TRENCH

1" = 1" 328409.76-06



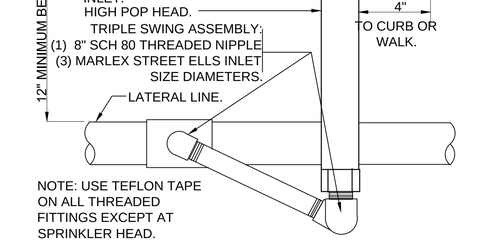
A REMOTE CONTROL VALVE

1 1/2" = 1'-0" 328406.13-11



F TREE BUBBLER-ROOT WATERING SYSTEM

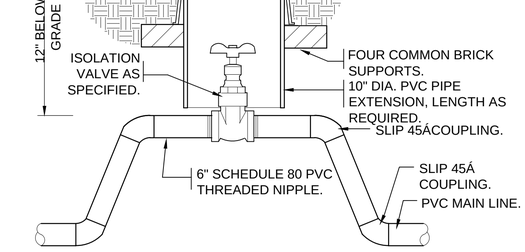
328403.53-07



NOTE: USE TEFLON TAPE ON ALL THREADED FITTINGS EXCEPT AT SPRINKLER HEAD.

D SHRUB SPRAY HIGHPOP MARLEX ASSEMBLY

328403.29-10



B ISOLATION GATE VALVE

328406.33-12

LANDSCAPE DETAILS

L-3

RHA LANDSCAPE ARCHITECTS PLANNERS, INC.
6780 INDIANA AVE., SUITE 160
RIVERSIDE, CALIFORNIA
92506
LIC. #1512
PH. (951) 781-1930
FAX (951) 686-8091

SEAL-LANDSCAPE ARCHITECT

LICENSED LANDSCAPE ARCHITECT — DOUGLAS GROVE NO. 2779 — Signature 11/30/15 — Renewal Date 8/8/14 — Date — STATE OF CALIFORNIA

UNIVERSITY AVE PIPELINE REPLACEMENT
LANDSCAPE DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 85 OF 86 SHEETS

WATER WBS S-1 1021
SEWER WBS N/A

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — DATE 6-9-2014
SUBMITTED BY: F. Michael Bafaro PROJECT MANAGER
CHECKED BY: Francis Boltz PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RHA			

210-1779 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

36656-85-D

DIGALERT — DIAL BEFORE YOU DIG — TOLL FREE 1-800-227-2600 — TWO WORKING DAYS BEFORE YOU DIG — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

The private landscape architect signing these plans is responsible for assuring the accuracy and acceptability of the design hereon. In the event of discrepancies arising after city approval or during construction, the private landscape architect shall be responsible for determining an acceptable solution and revising the plans for approval by the county.

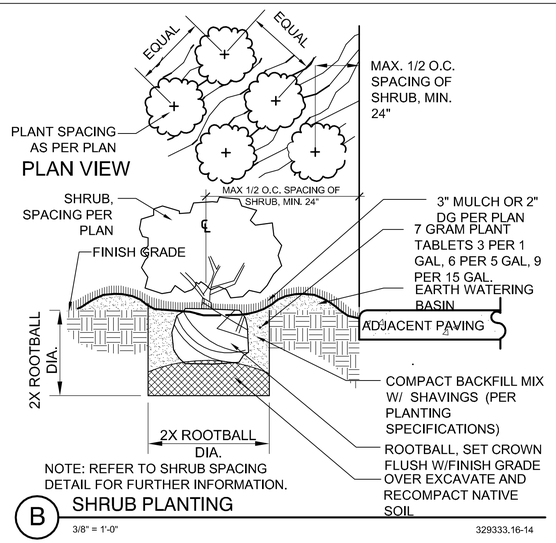
MARK	BY	DATE	REVISIONS	APPR.	DATE

ENGINEER — COUNTY

PERMIT NUMBER 11-14-NUJ-0042
CO SD RTE 163 PL 2.49
AS-BULIT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

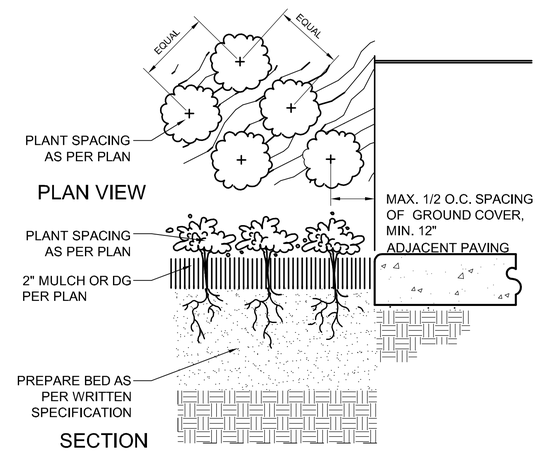
STATE REPRESENTATIVE DATE

LANDSCAPE DETAILS



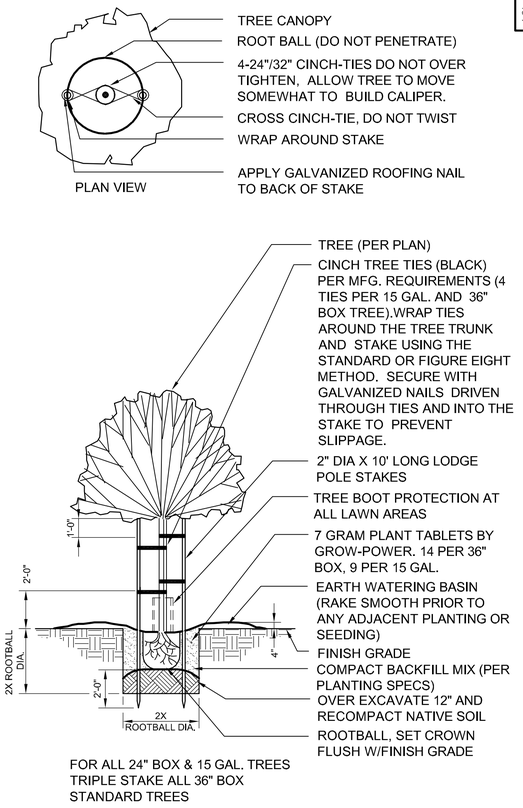
B SHRUB PLANTING

3/8" = 1'-0" 329333.16-14



C GROUND COVER SPACING

1" = 1" 32 9313-03



A DOUBLE STAKE WITH CINCH TIE

1/4" = 1'-0" 329343.19-34

DIGALERT

DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG

TOLL FREE 1-800-227-2600

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

The private landscape architect signing these plans is responsible for assuring the accuracy and acceptability of the design hereon. In the event of discrepancies arising after city approval or during construction, the private landscape architect shall be responsible for determining an acceptable solution and revising the plans for approval by the county.

MARK	BY	DATE	REVISIONS	APPR.	DATE

ENGINEER COUNTY

RHA LANDSCAPE ARCHITECTS PLANNERS, INC.
6780 INDIANA AVE., SUITE 160
RIVERSIDE, CALIFORNIA
92506
LIC. #1512
PH. (951) 781-1930
FAX (951) 686-8091

SEAL-LANDSCAPE ARCHITECT

LICENSED LANDSCAPE ARCHITECT — DOUGLAS GROVE NO. 2778 — STATE OF CALIFORNIA
Signature
11/20/15
Renewal Date
6/9/14
Date

L-4

UNIVERSITY AVE PIPELINE REPLACEMENT

LANDSCAPE DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 86 OF 86 SHEETS

APPROVED: FOR CITY ENGINEER IRAJ ASGHARZADEH PRINT NAME — 6-9-2014 DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RHA			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WATER WBS S-1 1021
SEWER WBS N/A
SUBMITTED BY: F. Michael Baroua PROJECT MANAGER
CHECKED BY: PROJECT ENGINEER
210-1779 CCS27 COORDINATE
1850444-6280407 CCS83 COORDINATE
36656-86-D

N:\PROJECTS\14PIR\14108 UNIVERSITY AVENUE PIPELINE (BROWN & CALDWELL)\AUTOCAD\RHA\14108_DETAILS.DWG
23 April 2014 Therencia

[One Inch on Original Sheet] Drawing File: N:\Projects\14pr\14108 University Avenue Pipeline (Brown & Caldwell)\AutoCAD\RHA\ 14108_DETAILS Jul 17, 2014 - 11:06am

TRAFFIC CONTROL NOTES

1. **VALIDATION:** THIS TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL PER SECTION 7-10.2.3 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CALL THE ENGINEERING TRAFFIC CONTROL SECTION AT (858) 495-4741 TO OBTAIN A PERMIT. THE CONTRACTOR MUST CALL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN THE WORK WILL AFFECT A TRAFFIC SIGNAL.

2. **STANDARDS:** THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:

   A. CITY OF SAN DIEGO STANDARD DRAWINGS, APPENDIX "A"
   B. CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; DECEMBER 31, 2012 EDITION
   C. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION (GREENBOOK), INCLUDING REGIONAL AND CITY OF SAN DIEGO SUPPLEMENT AMENDMENTS
   D. TEMPORARY TRAFFIC CONTROL DEVICES WITHIN CALTRANS RIGHT OF WAY SHALL BE IN ACCORDANCE WITH CALTRANS 2010 REVISED STANDARD PLANS RSP T9 THROUGH RSP T14

3. **NOTIFICATIONS:** THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AFFECTED AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL:

· FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
· POLICE DEPARTMENT TRAFFIC	(STREET OR ALLEY CLOSURE)	(858) 495-7800
· WASTE MANAGEMENT DEPT.	(REFUSE COLLECTION)	(858) 694-7000
· STREET DIVISION / ELECTRICAL	(TRAFFIC SIGNALS)	(619) 527-7500
· SAN DIEGO TRANSIT	(BUS STOPS)	(619) 595-7038
· MTDB	(TAXI ZONES)	(619) 235-2643
· UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800) 422-4133

   THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

4. **POSTING NO PARKING SIGNS:** THE CONTRACTOR SHALL POST TOW-AWAY / NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE FOR TEMPORARY PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS.

5. **EXCAVATIONS:** EXCEPT AS SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORKDAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES OPEN TO TRAFFIC , EXCEPT AS SHOWN ON THE PLANS.

6. **RESTORATION OF TRAFFIC CONTROL DEVICES:** THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE EQUAL TO EXISTING IMPROVEMENTS. LOOP DETECTORS SHALL BE REPLACED WITHIN THREE (3) WORKING DAYS OF COMPLETION OF UNDERGROUND WORK.

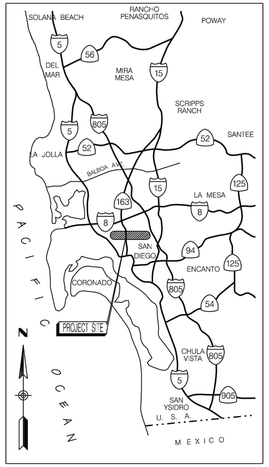
7. **CHANGES IN WORK:** THE RESIDENT ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVES THE RIGHT TO MAKE CHANGES AS THE FIELD CONDITIONS WARRANT. SUCH CHANGES SHALL SUPERSEDE THESE PLANS.

8. FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL, PER SECTION 7-10.2.1 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, PREPARE **TRAFFIC CONTROL SHOP DRAWINGS** AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW **TWENTY (20) WORKING DAYS** FOR REVIEW OF THE SHOP DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE A **TRAFFIC CONTROL PLAN (TCP) PERMIT** FOR THIS WORK.

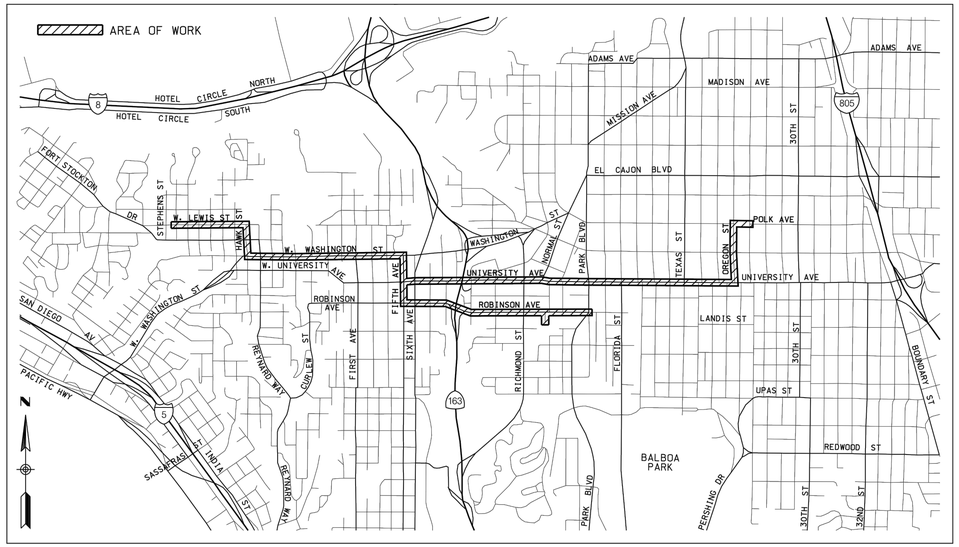
TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNAL TO BE PLACED ON "RED" FLASH

Ⓢ TRAFFIC SIGNAL MODIFICATION NOTE
(TO BE PLACED ON ALL SHEETS WITH WORK IN SIGNALIZED INTERSECTIONS)

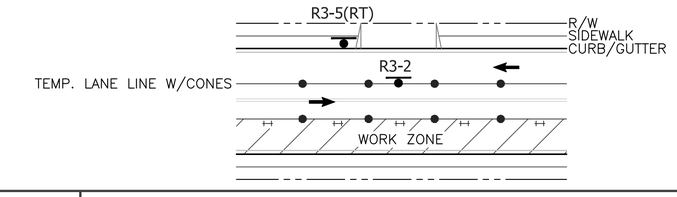


VICINITY MAP



LOCATION MAP

"TYPICAL" DRIVEWAY DETAIL "A"



PERMIT NUMBER: 11-14-NUB-0038	PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.6	CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES	AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE	STATE REPRESENTATIVE DATE

LEGEND

- ● - DELINEATOR/CONE
- ⟵⟶ - TRAFFIC DIRECTION
- ┼┼┼┼ - TYPE I BARRICADES
- ┼┼┼┼ - TYPE III BARRICADES
- ┼┼┼┼ - TYPE III BARRICADE WITH SIGN
- ▨ - TRENCH LINE
- ● - MAN HOLE
- ◆ - HIGH LEVEL WARNING DEVICE SEE CALTRANS TRAFFIC MANUAL
- ● - TRAFFIC SIGN
- ● - DOUBLE TRAFFIC SIGN
- ▲ - FLASHING ARROW SIGN
- ▯ - CHANGEABLE MESSAGE SIGN
- ▨ - K-RAIL
- ⚑ - FLAGGER WITH C28 PADDLE
- ☼ - WARNING LIGHTS (FLASHING/STEADY BURN)
- ×-×-× - 6 FT CONSTRUCTION FENCING
- ×-×-●-×-× - 4 FT ORANGE SAFETY FENCING WITH 48 INCH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS
- ▨ - TRANSITION AREA
- ▨ - CONCRETE MEDIAN
- ▨ - WORK ZONE
- Ⓢ - SIGNALIZED INTERSECTION

TC- 01

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

NOTES SHEET AND SIGN LEGEND FOR TRAFFIC CONTROL PLAN SET (SHEETS TC-1 THRU TC-249)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 1 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR TRAFFIC ENGINEER 07/15/14 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

SEE DRAWINGS
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T01-D

WORK HOURS:	**VARIES - SEE DRAWINGS**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE.					
UNIVERSITY AVE.					
SR-163 NORTHBOUND					

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/07/2014 | BY: DoB

ENGINEER OF WORK
NAME DATE

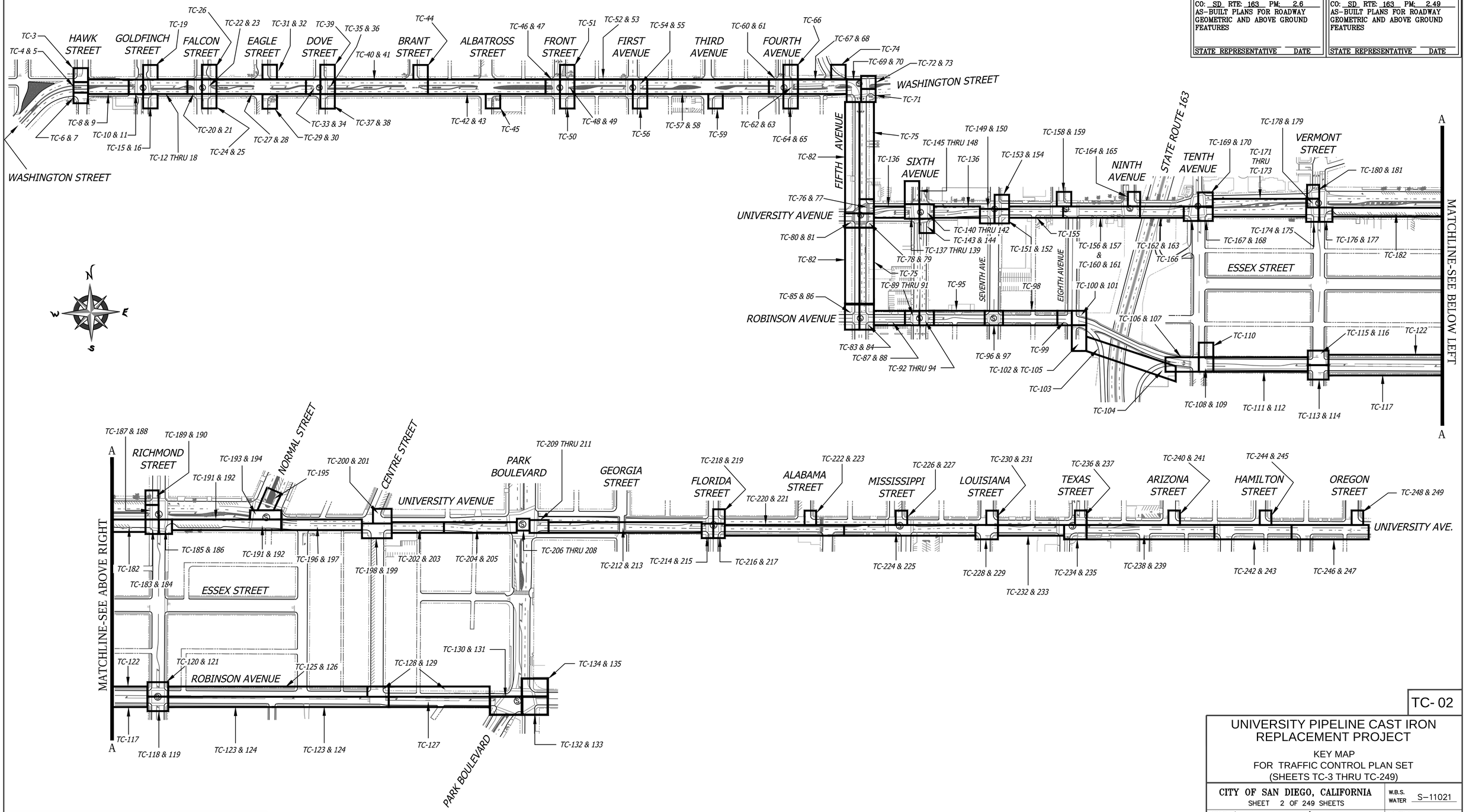
DES _____
DWN _____
CKD _____

City of San Diego
PUBLIC WORKS PROJECT

SCALE:
VERT:
HOR:
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

APPROVED BY: FOR CITY ENGINEER
CHECKED BY: ASSOCIATE ENGINEER
CHECKED BY: INSPECTOR

PERMIT NUMBER: 11-14-NUB-0038	PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.6	CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES	AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE	STATE REPRESENTATIVE DATE



WORK HOURS:	**VARIES - SEE DRAWINGS**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE.					
UNIVERSITY AVE.					
SR-163 NORTHBOUND					

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 10/18/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 10/18/2014 | BY: DaB

ENGINEER OF WORK

NAME DATE

DES

DWN

CKD

City of San Diego
PUBLIC WORKS PROJECT

SCALE: NONE
VERT: N/A
HOR: N/A
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

APPROVED BY: FOR CITY ENGINEER
CHECKED BY: ASSOCIATE ENGINEER
CHECKED BY: INSPECTOR

TC- 02

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

KEY MAP
FOR TRAFFIC CONTROL PLAN SET
(SHEETS TC-3 THRU TC-249)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 2 OF 249 SHEETS

W.B.S. WATER S-11021

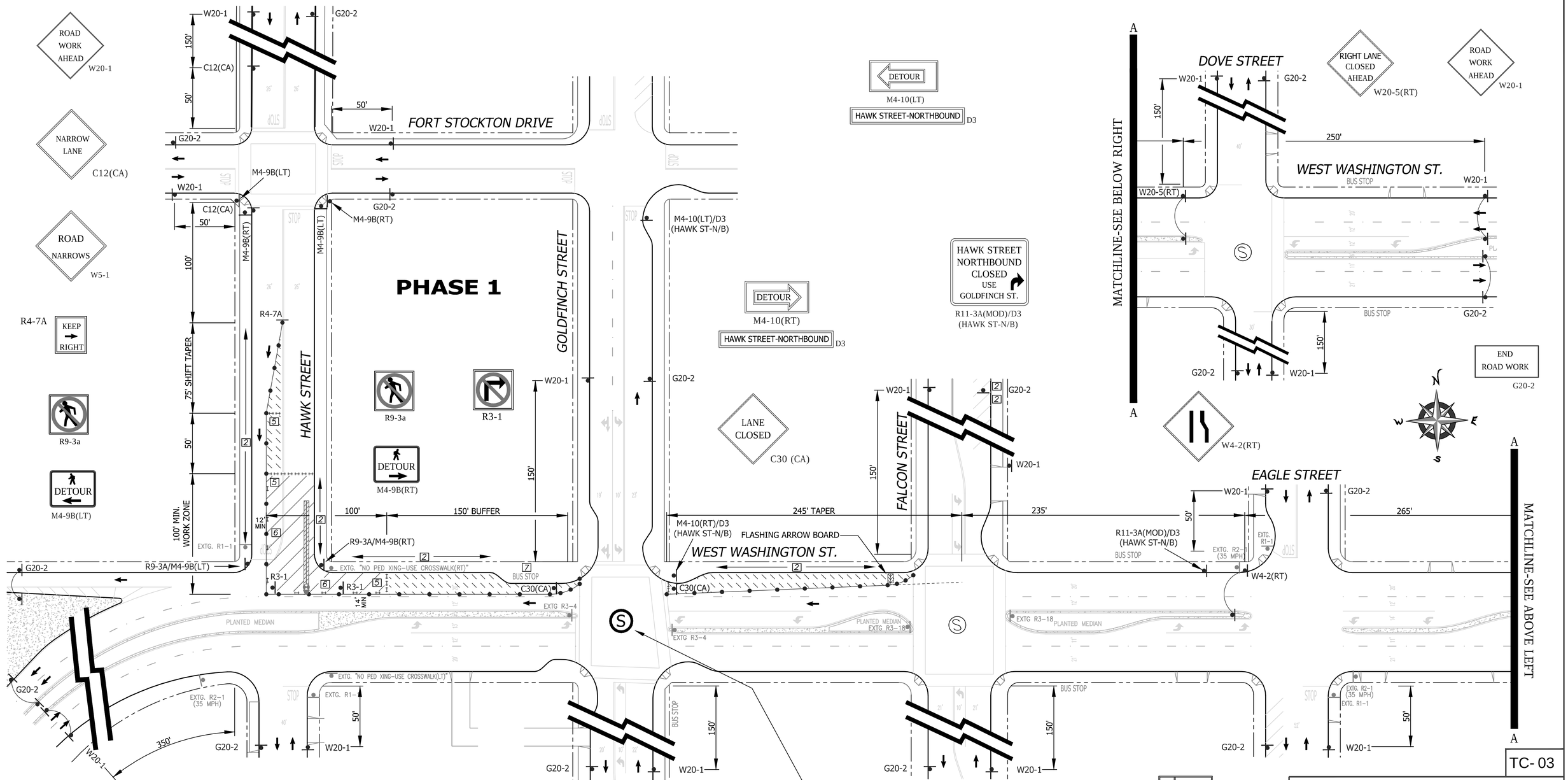
APPROVED: Ahmed Aburahmah 07/15/14
FOR TRAFFIC ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
SEE DRAWINGS
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

36656-T02-D



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

(S) SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	N/A	N/A	500 FT.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 1

CITY OF SAN DIEGO, CALIFORNIA
SHEET 3 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

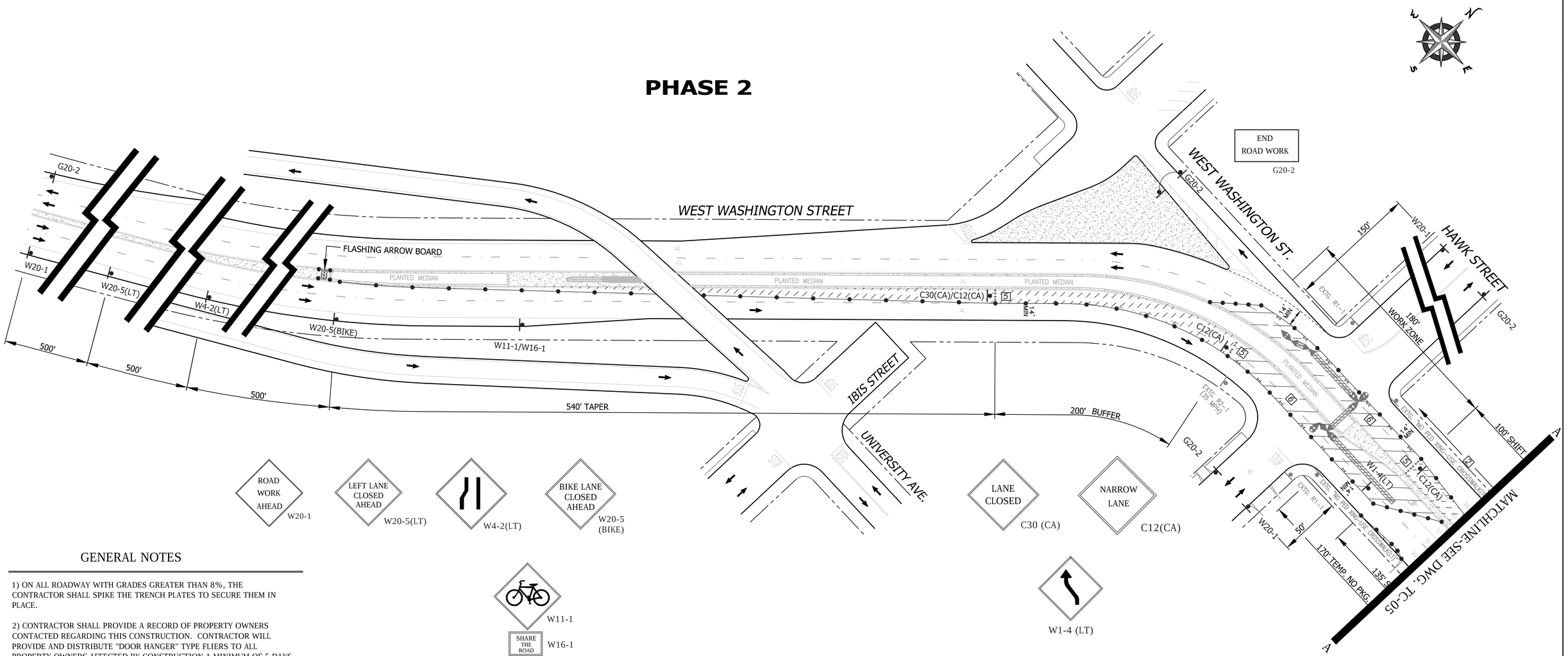
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
36656-T03-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-03

PHASE 2



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 04

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 2

CITY OF SAN DIEGO, CALIFORNIA
SHEET 4 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED
36656-T04-D

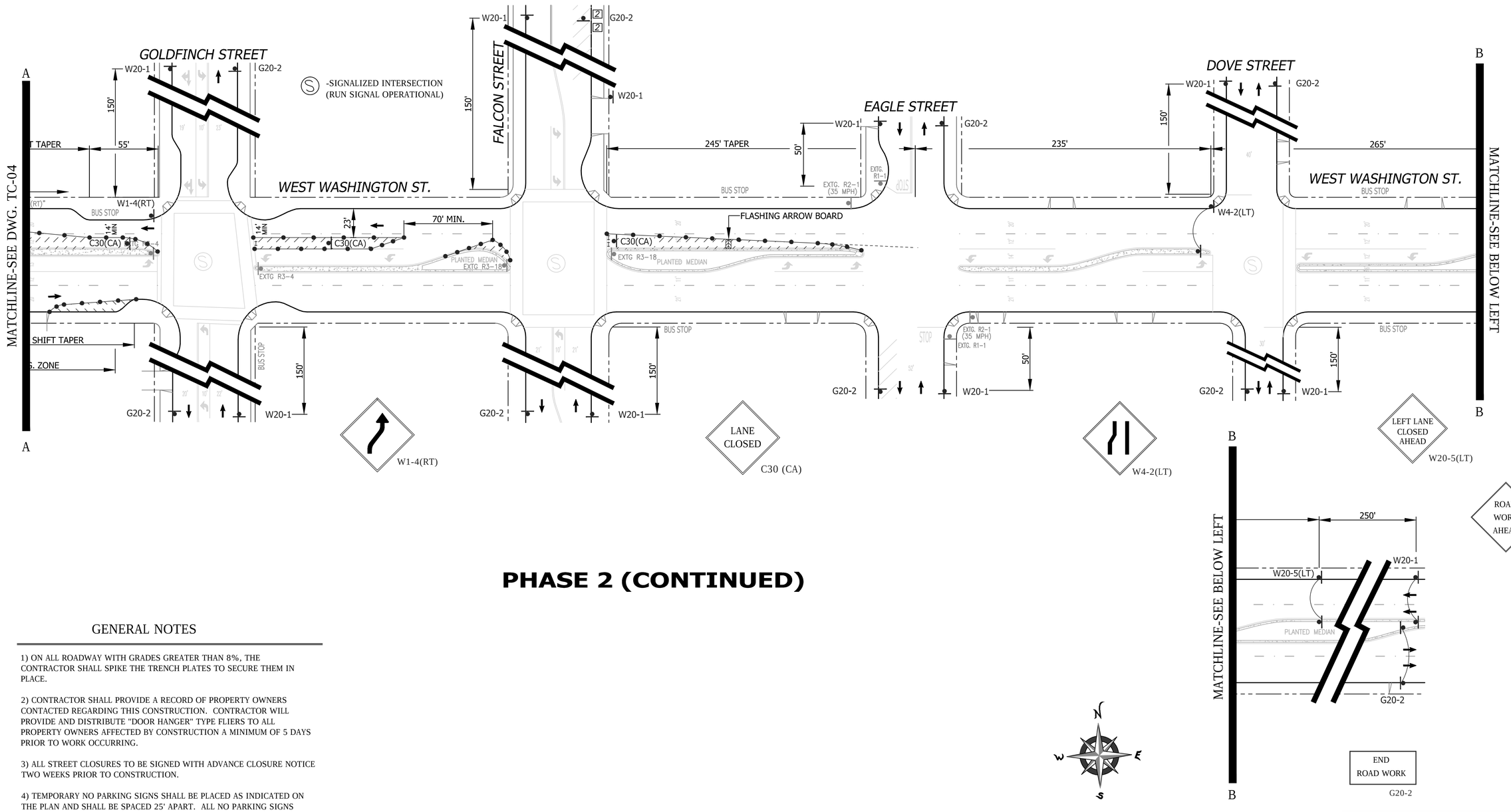
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/09/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 2 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/9/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 05

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 2

CITY OF SAN DIEGO, CALIFORNIA
SHEET 5 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

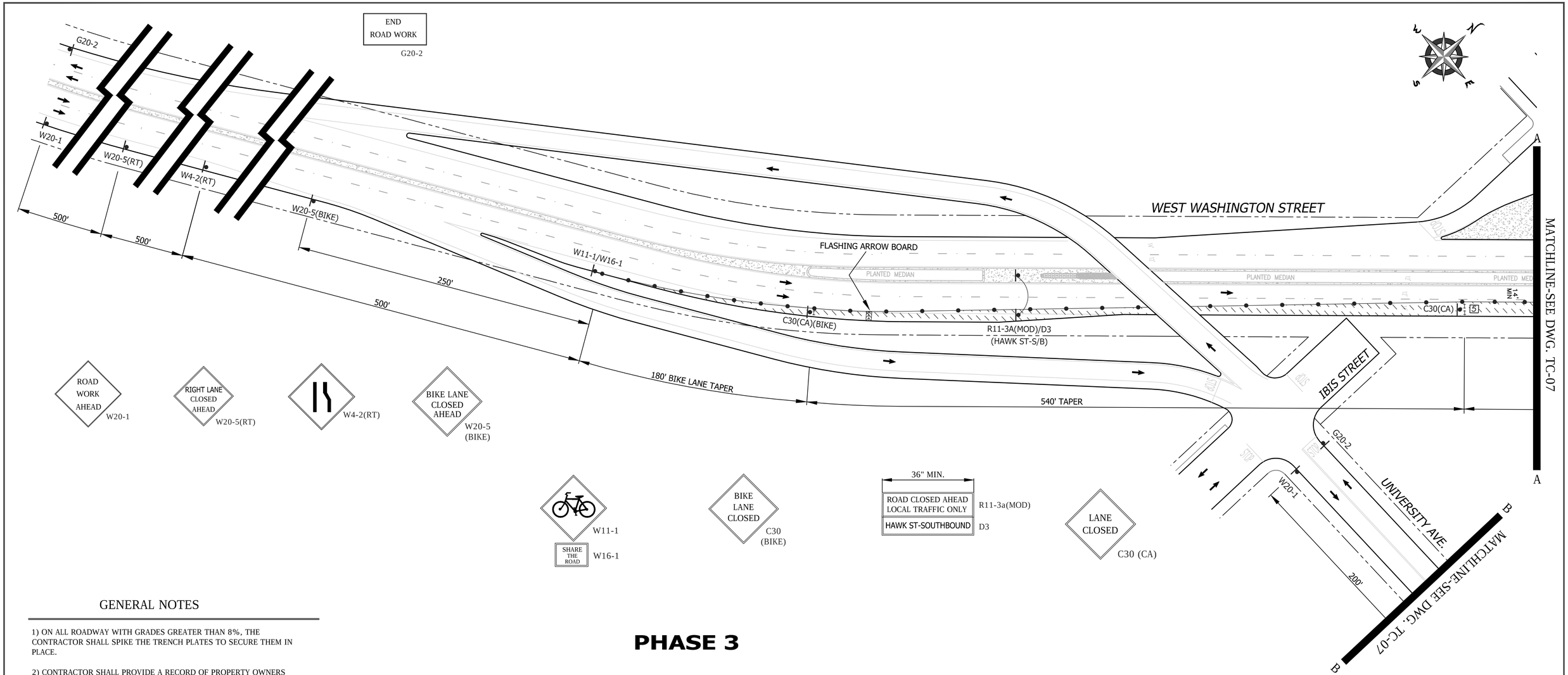
210-1713
CCS27 COORDINATE

1850444-6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T05-D



PHASE 3

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE	30	N/A	N/A	200 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 06

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 3

CITY OF SAN DIEGO, CALIFORNIA
SHEET 6 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

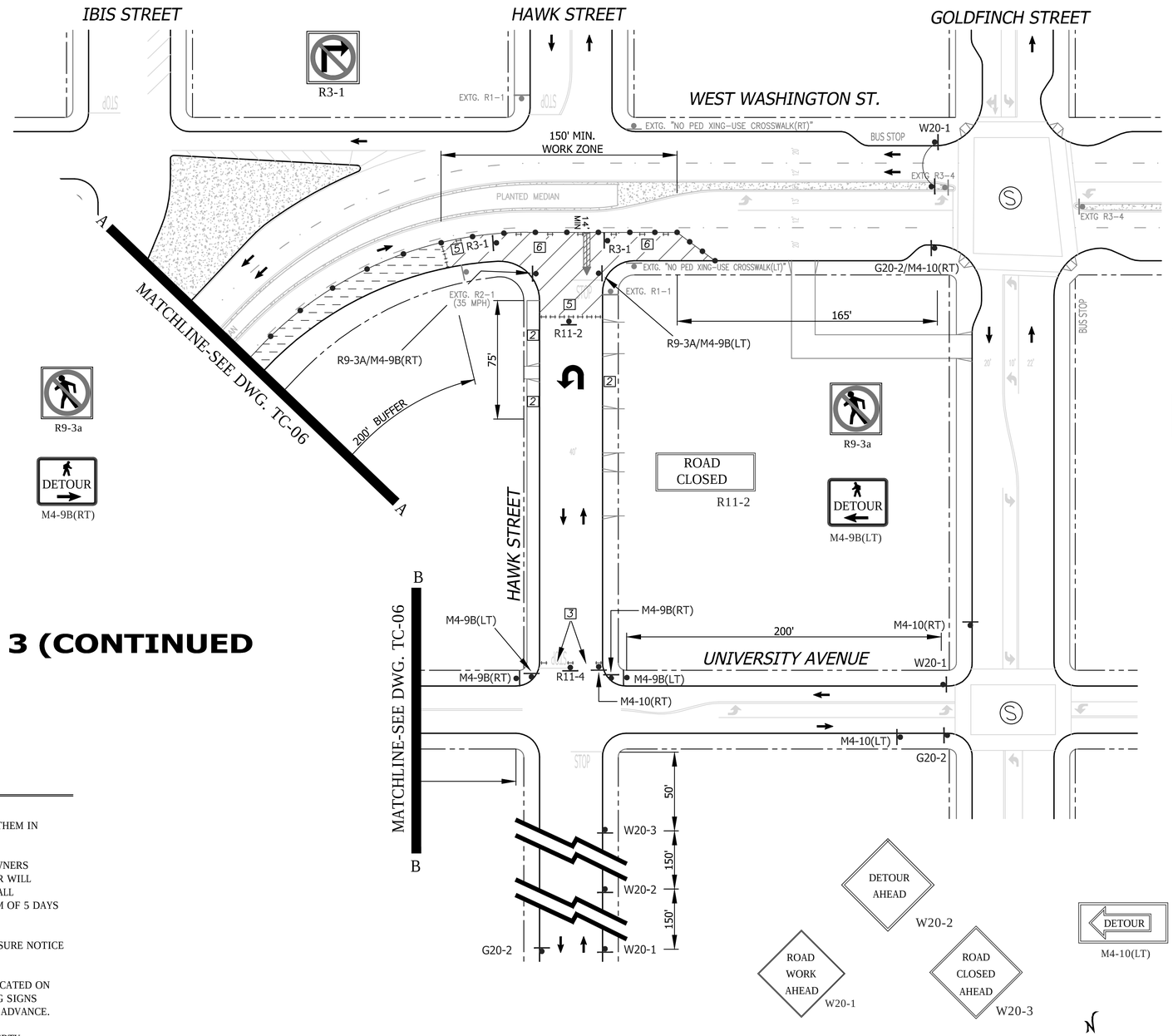
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T06-D

PHASE 3 (CONTINUED



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

END ROAD WORK
G20-2

DETOUR
M4-10(RT)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	SEE DWG.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 07

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 3

CITY OF SAN DIEGO, CALIFORNIA
SHEET 7 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

210-1713
CCS27 COORDINATE

1850444-6274407
CCS83 COORDINATE

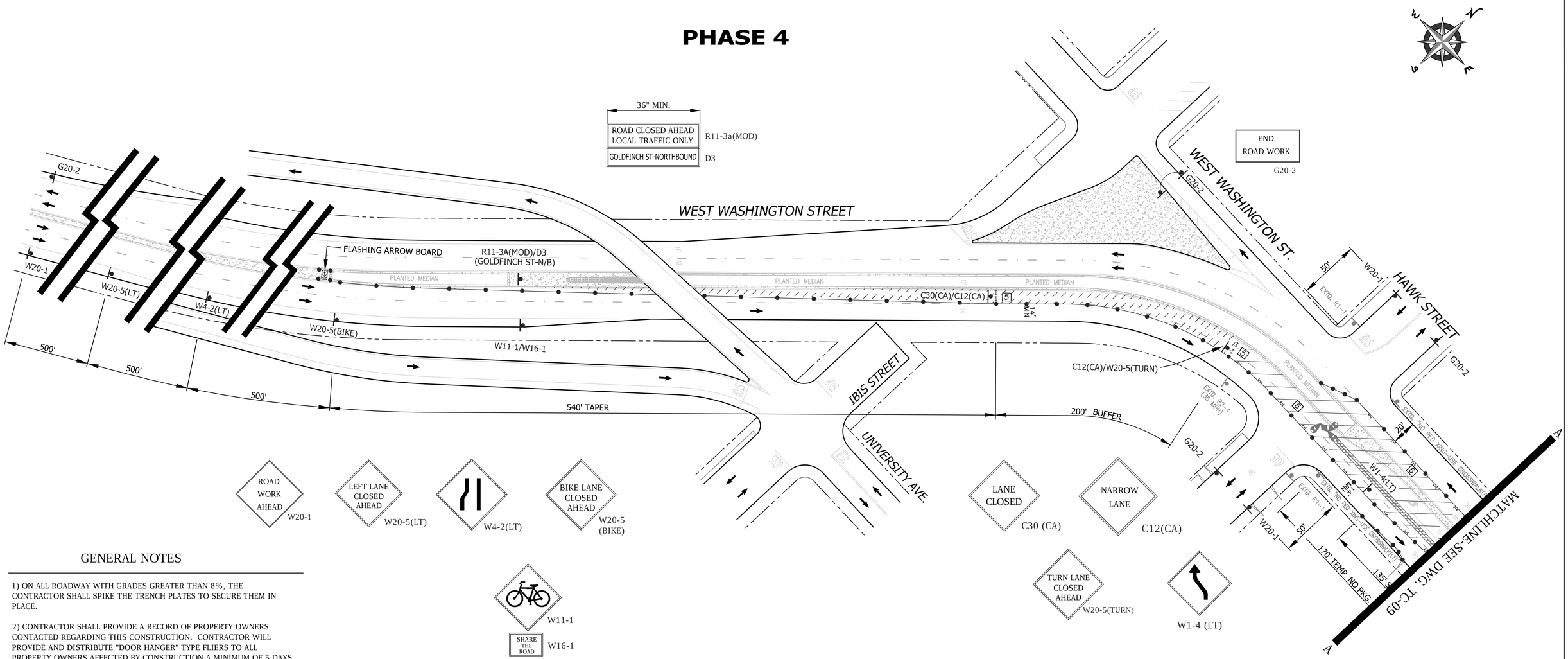
36656-T07-D

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

SEE DRAWING TC-09 FOR ACCOMPANYING DETOUR ROUTE

PHASE 4



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING	
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/09/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 08

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
HAWK STREET TO GOLDFINCH STREET
PHASE 4

CITY OF SAN DIEGO, CALIFORNIA
SHEET 8 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

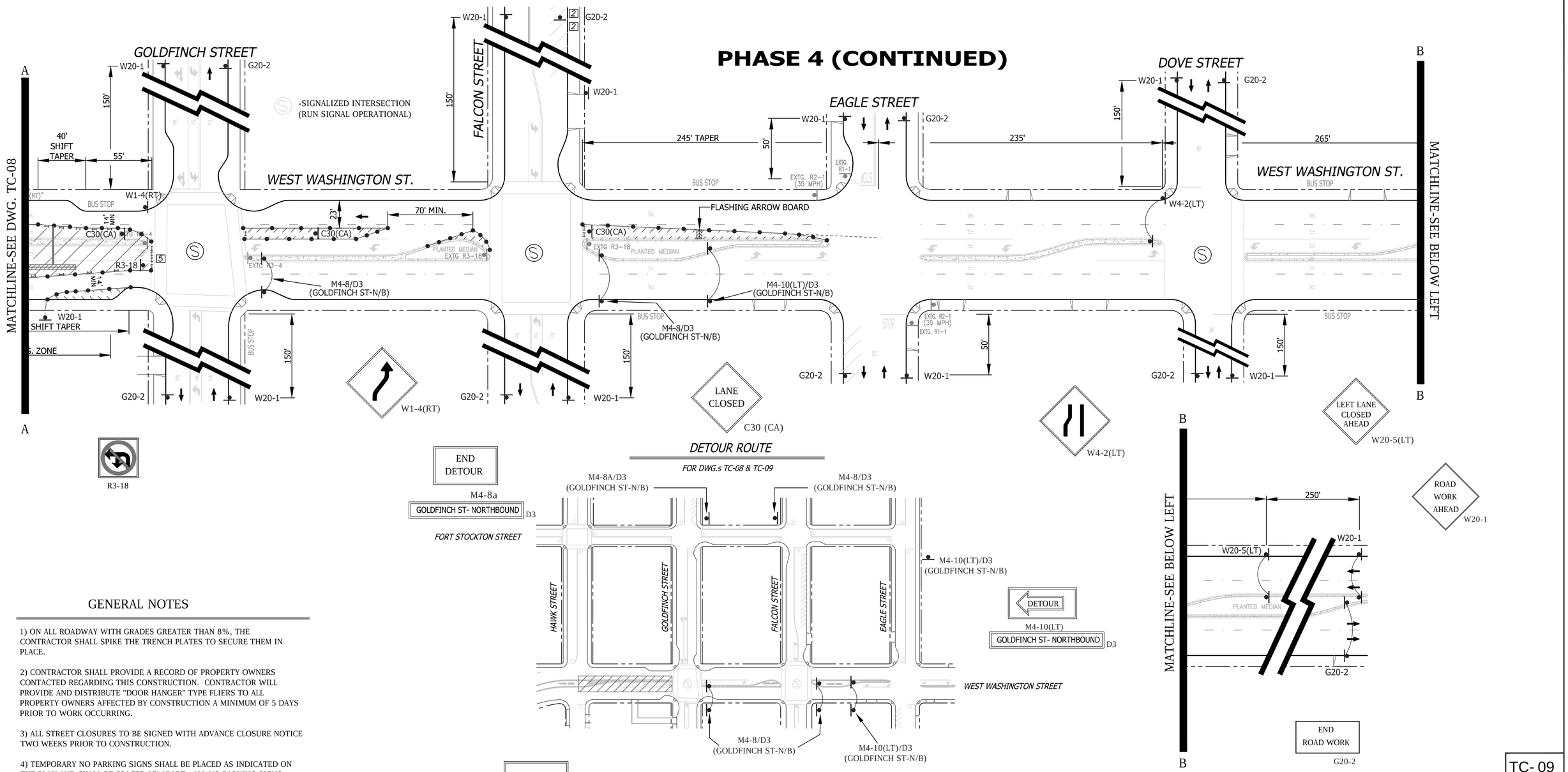
SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
36656-T08-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 4 (CONTINUED)



R3-18

END DETOUR

M4-8a

GOLDFINCH ST- NORTHBOUND D3

FORT STOCKTON STREET

DETOUR ROUTE

FOR DWG.s TC-08 & TC-09

DETOUR
M4-10(LT)
GOLDFINCH ST- NORTHBOUND D3

DETOUR
M4-8
GOLDFINCH ST- NORTHBOUND D3

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/09/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 09

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
HAWK STREET TO GOLDFINCH STREET
PHASE 4

CITY OF SAN DIEGO, CALIFORNIA
SHEET 9 OF 249 SHEETS

W.B.S. WATER S-11021

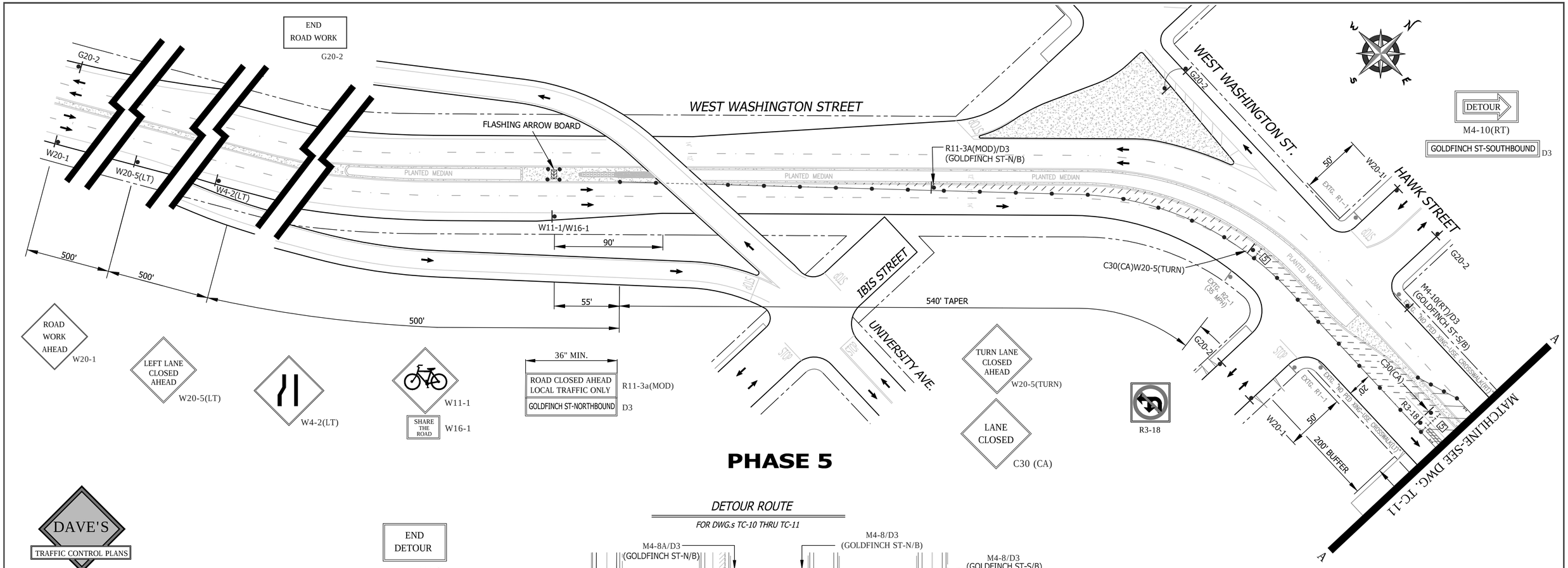
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T09-D



DAVE'S
TRAFFIC CONTROL PLANS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

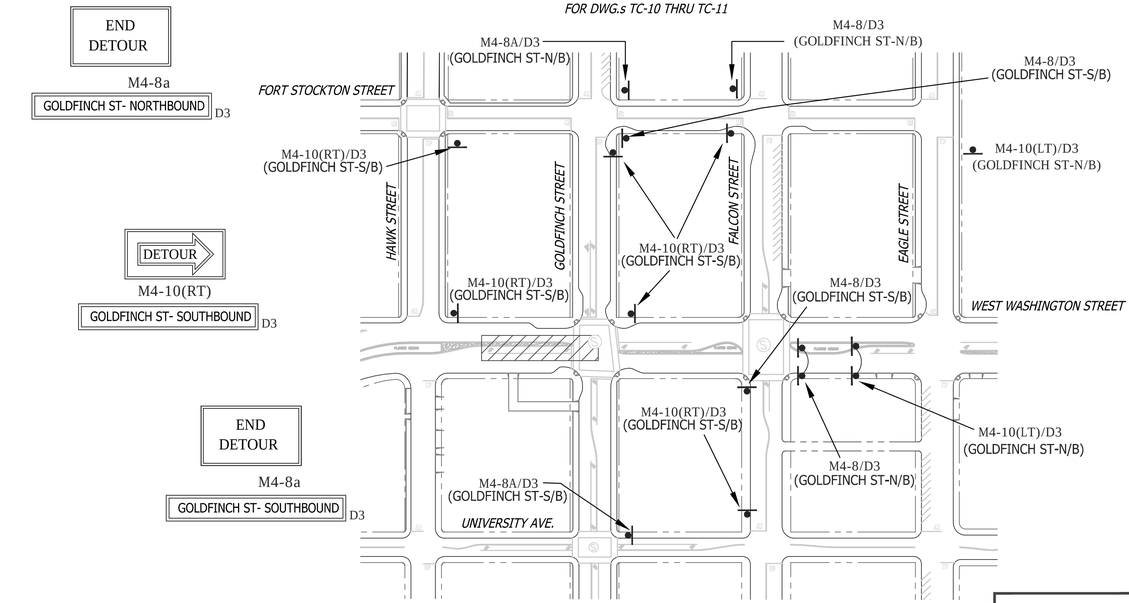
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

DETOUR ROUTE

FOR DWG.s TC-10 THRU TC-11



END DETOUR
M4-8a
GOLDFINCH ST- NORTHBOUND D3

DETOUR
M4-10(RT)
GOLDFINCH ST- SOUTHBOUND D3

END DETOUR
M4-8a
GOLDFINCH ST- SOUTHBOUND D3

DETOUR
M4-10(LT)
GOLDFINCH ST- NORTHBOUND D3

DETOUR
M4-8
GOLDFINCH ST- SOUTHBOUND D3

DETOUR
M4-8
GOLDFINCH ST- NORTHBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

TC- 10

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 5

CITY OF SAN DIEGO, CALIFORNIA
SHEET 10 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah — 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T10-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell — 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/09/2014 | BY:DaB

SCALE:
1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 5 (CONTINUED)

SEE DRAWING TC-10 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE BELOW RIGHT

MATCHLINE-SEE DWG. TC-10

MATCHLINE-SEE ABOVE RIGHT

MATCHLINE-SEE ABOVE LEFT

MATCHLINE-SEE BELOW LEFT

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

GOLDFINCH STREET

FALCON STREET

WEST WASHINGTON ST.

EAGLE STREET

DOVE STREET

UNIVERSITY AVE.

FORT STOCKTON DR.

GOLDFINCH ST

ROAD CLOSED — R11-2

ONLY — R3-5(RT)

DETOUR — M4-10(RT)

125' TAPER

100' BUFFER

R3-5(RT)/M4-10(RT)

12' MIN

FLASHING ARROW BOARD

C30(CA)

LANE CLOSED — C30 (CA)

150'

200' TANGENT/LEFT TURN LANE CLOSURE

M4-10(RT)/D3 (GOLDFINCH ST-S/B)

R11-3A(MOD)/D3 (GOLDFINCH ST-S/B)

36" MIN. — ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY — GOLDFINCH ST-SOUTHBOUND — R11-3a(MOD) D3

DETOUR — M4-10(RT) — GOLDFINCH ST-SOUTHBOUND D3

W20-1 — G20-2

W4-2(LT)

245' TAPER — 50' — EXTG. R2-1 (35 MPH) — EXTG. R1-1

235' — 265'

BUS STOP

R9-3A — WALK(RT)"

R11-2

R3-18 — C30(CA) — EXTG R3-4 — PLANTED MEDIAN — EXTG R3-18

11' MIN — 20' — 12' MIN

150' WORK ZONE

R4-7A — KEEP RIGHT

R3-18

R9-3a

M4-8/D3 (GOLDFINCH ST-S/B)

DETOUR — M4-8 — GOLDFINCH ST-SOUTHBOUND D3

75' BUFFER — 60' SHIFT TAPER — 110'

200' — W20-5(TURN)

END ROAD WORK — G20-2

TURN LANE CLOSED AHEAD — W20-5(TURN)

GOLDFINCH ST SOUTHBOUND CLOSED — USE DETOUR — CUSTOM DETOUR SIGN

ROAD WORK AHEAD — W20-1

LEFT LANE CLOSED AHEAD — W20-5(LT)

END ROAD WORK — G20-2

ROAD CLOSED AHEAD — W20-3

W4-2(LT)

CUSTOM DETOUR SIGN — 50' — 65' — W20-3/W4-2(LT)

M4-10(RT)/D3 (GOLDFINCH ST-S/B)

LEFT LANE CLOSED AHEAD — W20-5(LT)

ROAD WORK AHEAD — W20-1

250'

PLANTED MEDIAN

R26 (MOD)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
9. -VEHICULAR FLAGMAN. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, VEHICULAR FLAGMAN TO FACILLITATE VEHICLE MOVEMENT THRU THE INTERSECTION TO / FROM THE TEMPORARY DETOUR ON THE OTHER SIDE OF THE STREET

Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT	
GOLDFINCH STREET	25	SEE DWG.	SEE DWG.	25 FT	
W. WASHINGTON ST (E/B)	45	SEE DWG.	500 FT.	25 FT	

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/09/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 5

CITY OF SAN DIEGO, CALIFORNIA
SHEET 11 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

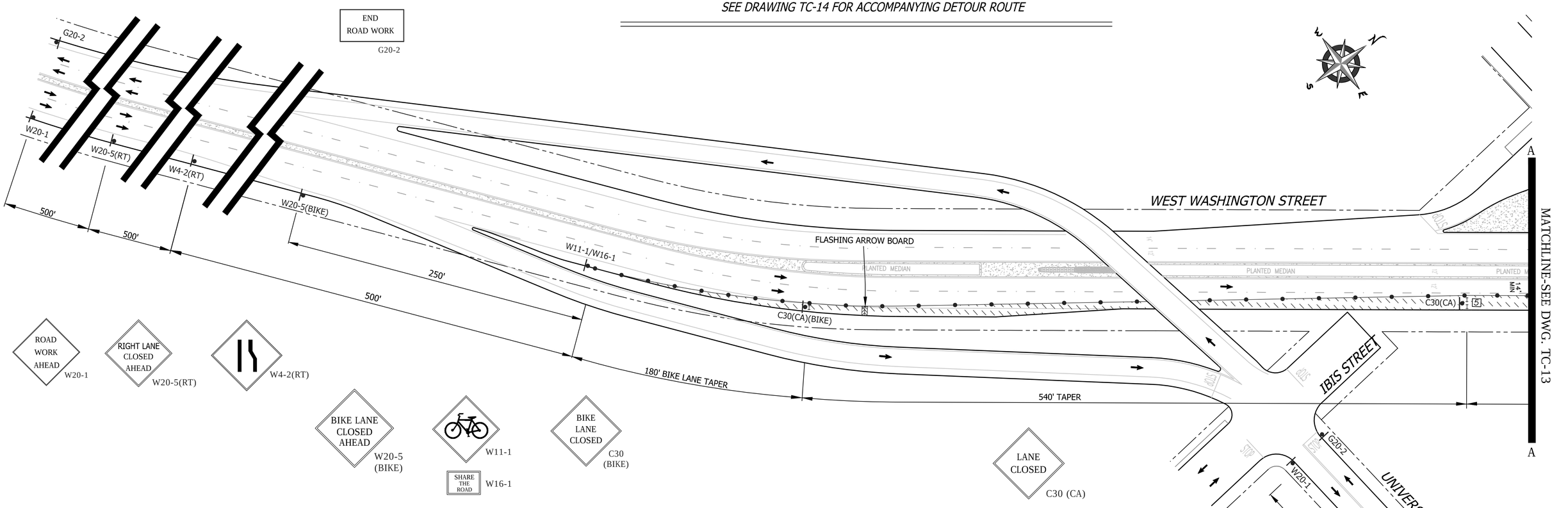
210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T11-D

TC-11

SEE DRAWING TC-14 FOR ACCOMPANYING DETOUR ROUTE



PHASE 6

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -VEHICULAR FLAGMAN. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, VEHICULAR FLAGMAN TO FACILLITATE VEHICLE MOVEMENT THRU THE INTERSECTION TO / FROM THE TEMPORARY DETOUR ON THE OTHER SIDE OF THE STREET

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 12

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 6

CITY OF SAN DIEGO, CALIFORNIA
SHEET 12 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T12-D

PHASE 6 (CONTINUED)

MATCHLINE-SEE BELOW LEFT

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE SET TO "RED FLASH".

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

SEE DRAWING TC-14 FOR ACCOMPANYING DETOUR ROUTE

END ROAD WORK G20-2

WEST WASHINGTON ST. EASTBOUND CLOSED USE GOLDFINCH ST. R11-3A(MOD)/D3 (W. WASH. ST-E/B)

HAWK STREET

GOLDFINCH STREET

155' TEMP. NO PARKING ZONE

125' TAPER

75' BUFFER/REV. TAPER

W1-4(RT)

FLASHING ARROW BOARD

C30(CA)

DETOUR M4-8 W. WASHINGTON ST-EASTBOUND D3

M4-10(LT)/D3 (W. WASHINGTON ST-E/B)

M4-8/D3 (W. WASHINGTON ST-E/B)

FALCON STREET

W20-1

G20-2

DO NOT ENTER R5-1

WRONG WAY R5-1A

EAGLE STREET

200'

WEST WASHINGTON ST.

EXTG. R1-1

EXTG. "NO PED XING-USE CROSSWALK(RT)"

BUS STOP

EXTG. R2-1 (35 MPH)

R4-7A

R9-3A

R5-1/R5-1A's

R11-3A(MOD)/D3 (W. WASH ST-E/B)

EXTG R3-4

PLANTED MEDIAN

70' MIN.

C12(CA)

W1-4(LT)

M4-10(RT)/D3 (W. WASH ST-E/B)

R3-7(RT)

R4-7A's

135' SHIFT TAPER

90'

170' TEMP. NO PKG. ZONE

50'

75' SHIFT TAPER

100' - SPACE SIGNS EVENLY AS SHOWN

R3-5(RT)

R3-1

R11-2

M4-10(RT)

EXTG R3-18

PLANTED MEDIAN

M4-10(RT)/D3 (W. WASHINGTON ST-E/B)

CONTRACTOR SHALL KEEP ONE CROSSWALK OPEN AT ALL TIMES WHEN ACCOMPLISHING WORK SHOWN (EXAMPLE SHOWN)

75' BUFFER

100' SHIFT TAPER

175' TEMP. NO PARKING ZONE

R9-3a

R3-1

ONLY R3-5(RT)

ROAD CLOSED R11-2

W1-4(LT)

70'

200'

C12(CA)

M4-10(LT)/D3 (W. WASHINGTON ST-E/B)

M4-8A/D3 (W. WASHINGTON ST-E/B)

ROAD WORK AHEAD W20-1

END DETOUR M4-8a W. WASHINGTON ST-EASTBOUND D3

END ROAD WORK G20-2

25'

150'

LEFT LANE CLOSED AHEAD W20-5(LT)

DETOUR M4-10(RT)

MATCHLINE-SEE DWG. TC-12

RIGHT LANE MUST TURN RIGHT R3-7(RT)

90' MIN.

200' BUFFER

DETOUR M4-10(RT) W. WASHINGTON ST-EASTBOUND D3

W1-4 (LT)

ROAD NARROWS W5-1

NARROW LANE C12(CA)

KEEP RIGHT R4-7A

FORT STOCKTON DRIVE

W20-5(LT)

M4-10(RT)/D3 (W. WASHINGTON ST-EASTBOUND)

MATCHLINE-SEE DWG. TC-12

DETOUR M4-10(LT) W. WASHINGTON ST-EASTBOUND D3

G20-2/M4-10(LT)/D3 (W. WASHINGTON ST-E/B)

DETOUR AHEAD W20-2

END ROAD WORK G20-2

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M. R26 (MOD)

ROAD WORK AHEAD W20-1

MATCHLINE-SEE ABOVE RIGHT

–SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

TC- 13

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 6

CITY OF SAN DIEGO, CALIFORNIA
SHEET 13 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1713 CCS27 COORDINATE
1850444–6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T13-D

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

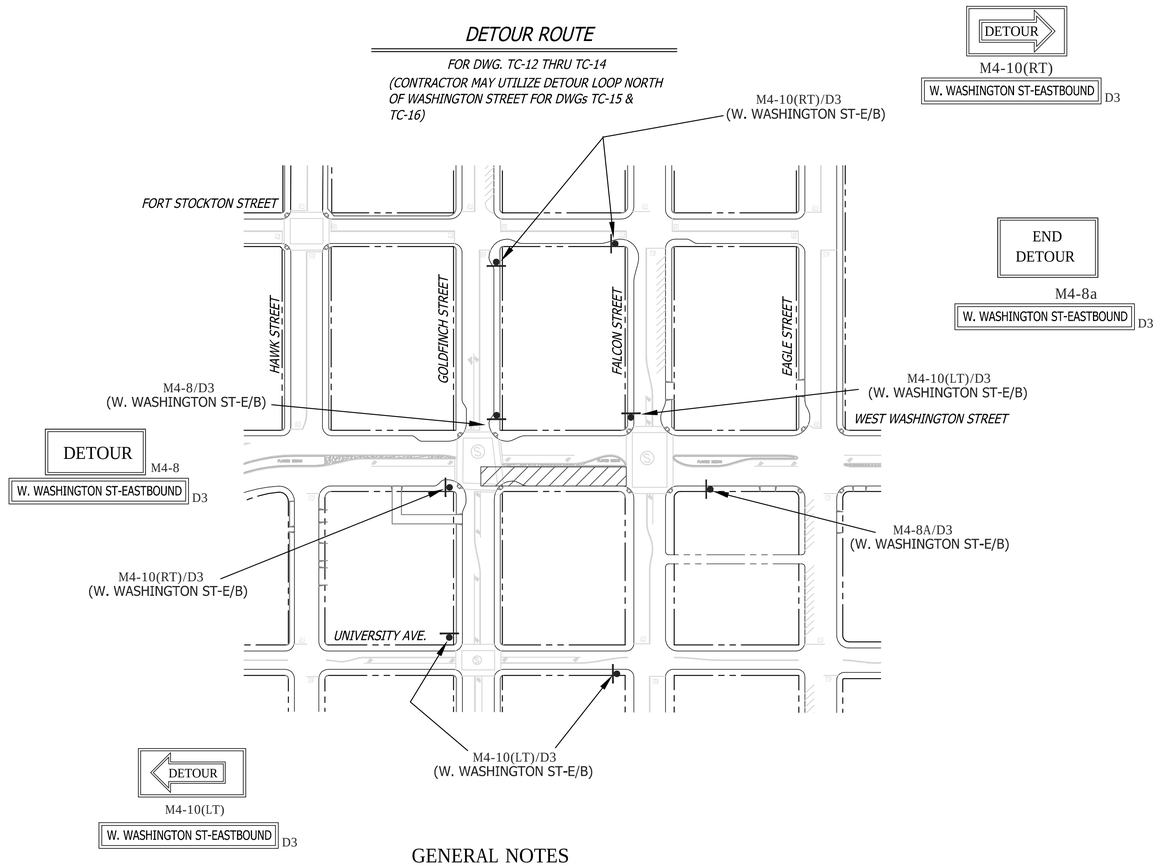
REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9–30–15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME:130601–TC–1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 6 (CONTINUED)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 14

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 6

CITY OF SAN DIEGO, CALIFORNIA
SHEET 14 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

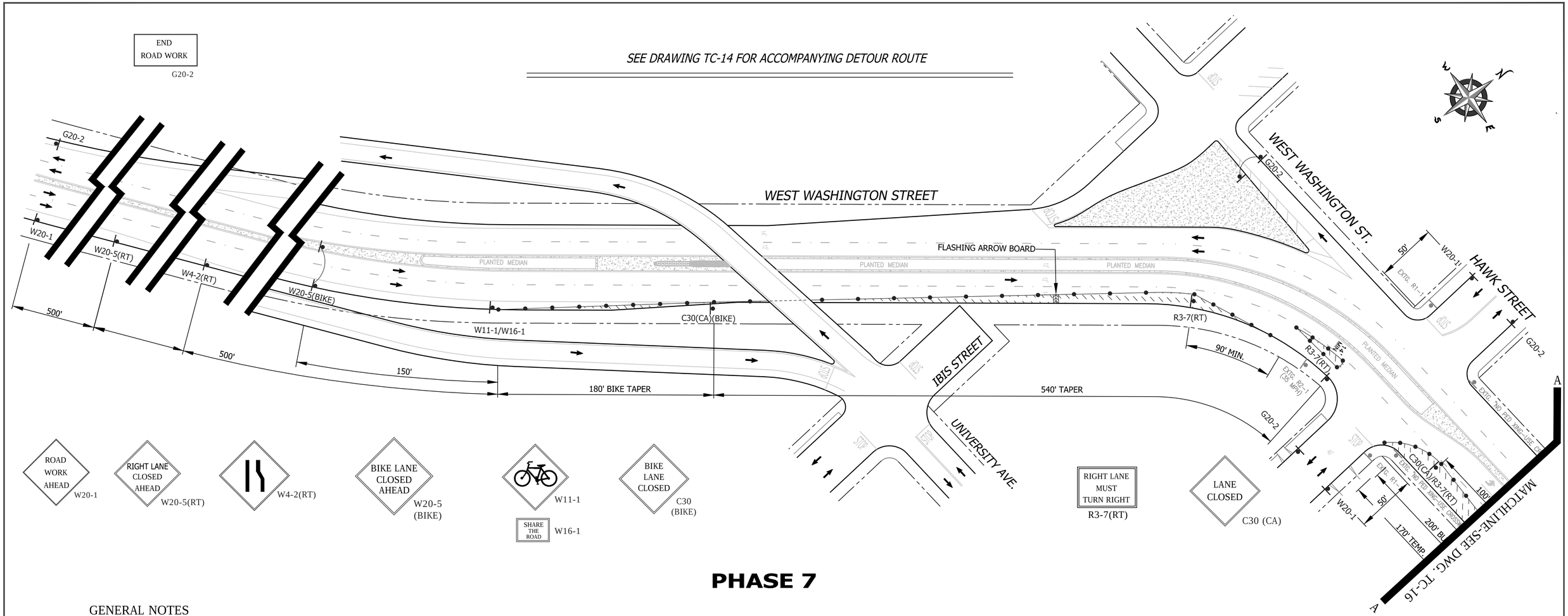
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T14-D

END
ROAD WORK
G20-2

SEE DRAWING TC-14 FOR ACCOMPANYING DETOUR ROUTE



ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

BIKE LANE CLOSED AHEAD W20-5 (BIKE)

W11-1

SHARE THE ROAD W16-1

BIKE LANE CLOSED C30 (BIKE)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

LANE CLOSED C30 (CA)

PHASE 7

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 15

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 7

CITY OF SAN DIEGO, CALIFORNIA
SHEET 15 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

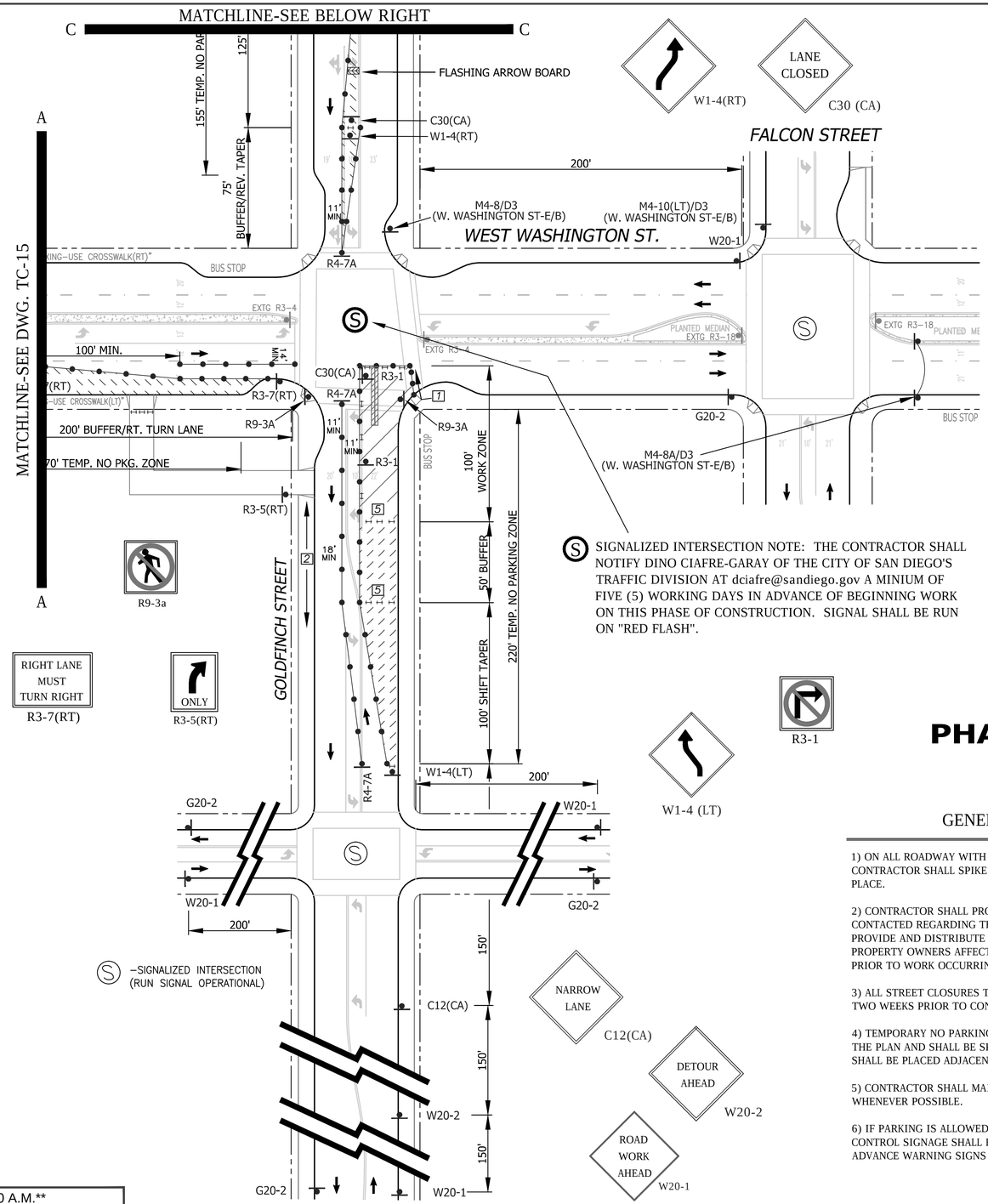
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

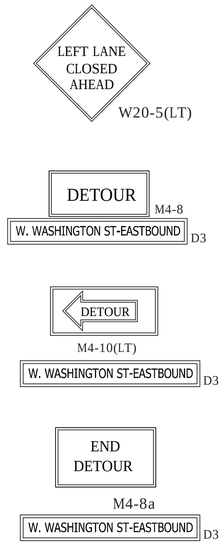
36656-T15-D

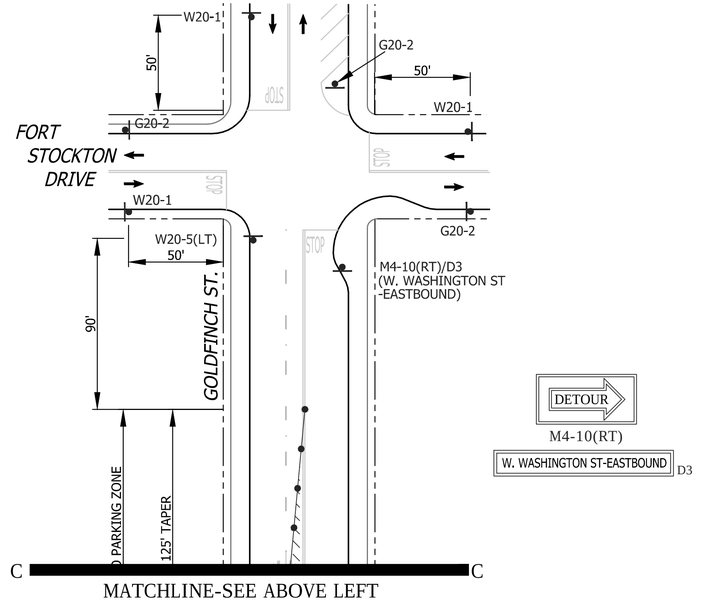


Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN ON "RED FLASH".

Ⓢ –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SEE DRAWING TC-14 FOR ACCOMPANYING DETOUR ROUTE





PHASE 7 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 16

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 7

CITY OF SAN DIEGO, CALIFORNIA
SHEET 16 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

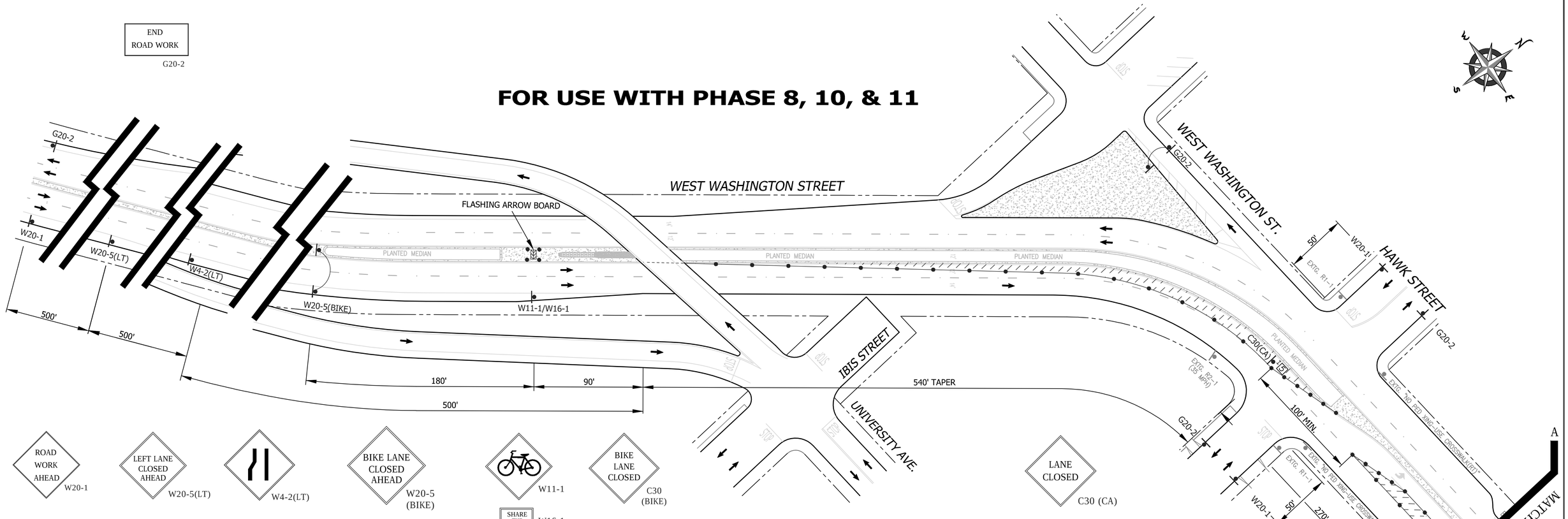
210–1713
CCS27 COORDINATE
1850444–6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T16-D

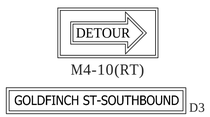
END
ROAD WORK
G20-2

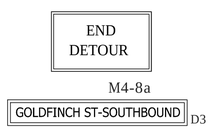
FOR USE WITH PHASE 8, 10, & 11



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

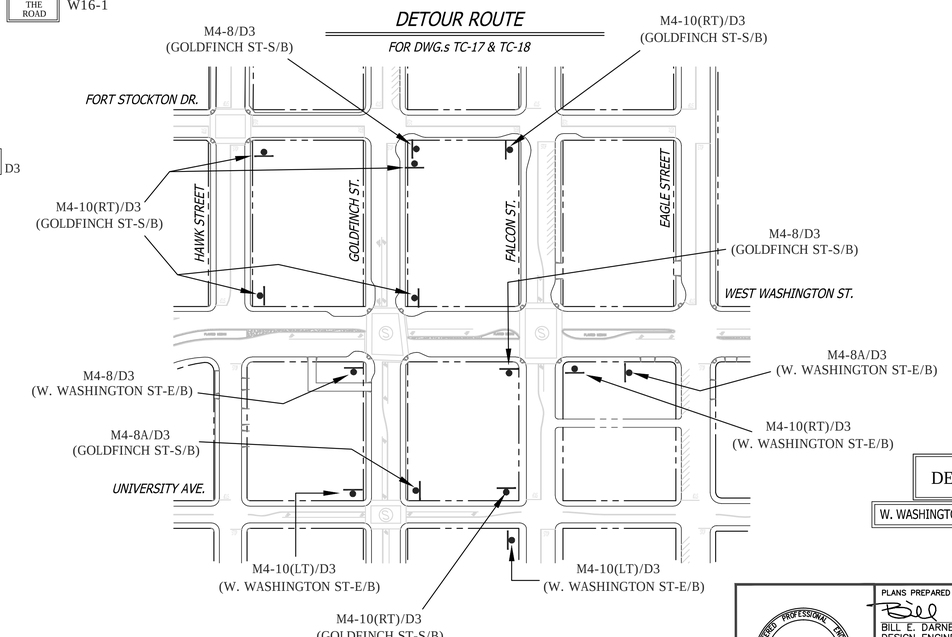


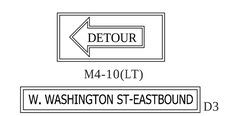


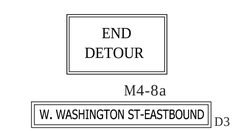
R26 (MOD)

DETOUR ROUTE

FOR DWG.s TC-17 & TC-18







WORK HOURS:	**9:00 P.M. to 5:00 A.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

TC- 17

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 8

CITY OF SAN DIEGO, CALIFORNIA
SHEET 17 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED
36656-T17-D

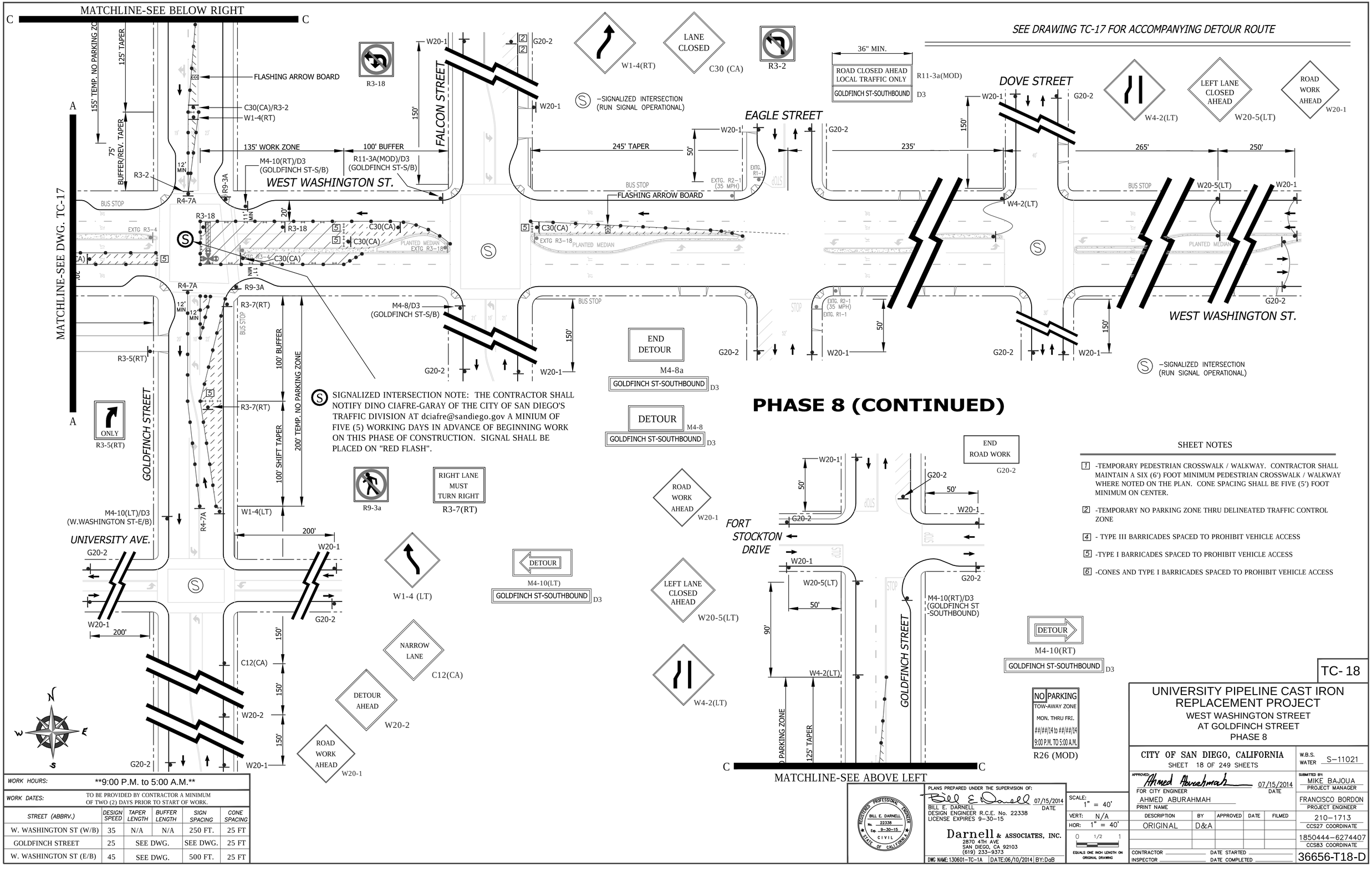
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



S SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

PHASE 8 (CONTINUED)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC- 18

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 8

CITY OF SAN DIEGO, CALIFORNIA
SHEET 18 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

36656-T18-D

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

DETOUR
M4-10(RT)
GOLDFINCH ST-NORTHBOUND D3

HAWK STREET
W20-1
G20-2
ROAD CLOSED
R11-2
M4-10(RT)/D3
(GOLDFINCH ST-N/B)
EXTG. "NO PED XING-USE CROSSWALK(RT)"
EXTG. R1-1
STOP
BUS STOP
50'
100' MIN. WORK ZONE
150'
R5-1/R5-1A
R9-3A

WEST WASHINGTON ST.
G20-2
PLANTED MEDIAN
EXTG R3-4
R3-2
C30(CA)
R3-2
5
R11-2
6
R3-1
12' MIN
R3-1
C30(CA)
200' BUFFER & TEMP. NO PKG. ZONE
R11-3A(MOD)/D3
(GOLDFINCH ST-N/B)
FALCON STREET
150'
W20-1
G20-2
2
DO NOT ENTER
R5-1
WRONG WAY
R5-1A
R3-1
36" MIN.
ROAD CLOSED AHEAD
LOCAL TRAFFIC ONLY
GOLDFINCH ST-NORTHBOUND
R11-3a(MOD)
D3
RIGHT LANE MUST TURN RIGHT
R3-7(RT)

EAGLE STREET
W20-1
G20-2
245' TAPER & TEMP. NO PKG. ZONE
50'
235'
7
BUS STOP
EXTG. R2-1 (35 MPH)
EXTG. R1-1
STOP
R3-7(RT)
FLASHING ARROW BOARD
R3-7(RT)
12' MIN
EXTG R3-18
PLANTED MEDIAN
R3-4
R3-4
EXTG R3-18
PLANTED MEDIAN
EXTG R3-4
M4-8/D3
(GOLDFINCH ST-N/B)
BUS STOP
M4-10(LT)/D3
(GOLDFINCH ST-N/B)
150'
W20-1
G20-2
S –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)
R3-4
A
MATCHLINE-SEE BELOW LEFT
A

EXTG. "NO PED XING-USE CROSSWALK(LT)"
STOP
EXTG. R1-1
50'
230' TURN LANE CLOSURE
W20-1
G20-2
EXTG. R2-1 (35 MPH)
G20-2
PLANTED
W20-5(TURN)
500'
W20-1
500'
TURN LANE CLOSED AHEAD
W20-5(TURN)
R3-2
LANE CLOSED
C30 (CA)
R9-3a

GOLDFINCH STREET
R61(MOD)/
M4-10(RT)
BUS STOP
7
12' MIN
60' MIN. OPENING
135' SHIFT TAPER & TEMP. NO PARKING ZONE
R61(MOD)
R61(MOD)
ONLY
ONLY
R61(MOD)
DETOUR
M4-10(RT)

PHASE 9

DETOUR
M4-8
GOLDFINCH ST-NORTHBOUND D3
DETOUR
M4-10(LT)
GOLDFINCH ST-NORTHBOUND D3
END DETOUR
M4-8a
GOLDFINCH ST-NORTHBOUND D3
R3-4
S –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

A
DOVE STREET
W20-1
G20-2
150'
265'
250'
W4-2(RT)
RIGHT LANE CLOSED AHEAD
W20-5(RT)
ROAD WORK AHEAD
W20-1
BUS STOP
W20-5(RT)
W20-1
W4-2(RT)
PLANTED MEDIAN
G20-2
WEST WASHINGTON ST.
150'
G20-2
W20-1
MATCHLINE-SEE ABOVE RIGHT
A
S –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)
END ROAD WORK
G20-2

UNIVERSITY AVE.
G20-2
W20-1
200'
W20-3
W20-1
G20-2
ROAD CLOSED AHEAD
W20-3
DETOUR AHEAD
W20-2
150'
W20-2
150'
G20-2
W20-1
DETOUR
M4-10(RT)
GOLDFINCH ST-NORTHBOUND D3

DETOUR ROUTE
FOR DWG. TC-19
M4-8A/D3
(GOLDFINCH ST-N/B)
M4-8/D3
(GOLDFINCH ST-N/B)
FORT STOCKTON DR.
HAWK ST
GOLDFINCH ST
FALCON ST
EAGLE ST
M4-10(LT)/D3
(GOLDFINCH ST-N/B)
WEST WASHINGTON STREET
M4-8/D3
(GOLDFINCH ST-N/B)
M4-10(RT)/D3
(GOLDFINCH ST-N/B)
UNIVERSITY AVE.
M4-10(RT)/D3
(GOLDFINCH ST-N/B)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE OR RE-ROUTE. CONTRACTOR SHALL CONTACT SAN DIEGO TRANSIT AT (619) 238-0100 X424 A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION.

TC- 19

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	N/A	N/A	500 FT.	25 FT

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET AT GOLDFINCH STREET PHASE 9

CITY OF SAN DIEGO, CALIFORNIA
SHEET 19 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T19-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 10

MATCHLINE-SEE DWG. TC-21

ONLY | ONLY
R61(MOD)

DETOUR
M4-10(RT)

Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

R4-7A KEEP → RIGHT

DETOUR M4-8
W. WASHINGTON ST-WESTBOUND D3

ROAD CLOSED
R11-2

ROAD WORK AHEAD
W20-1

Ⓢ –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

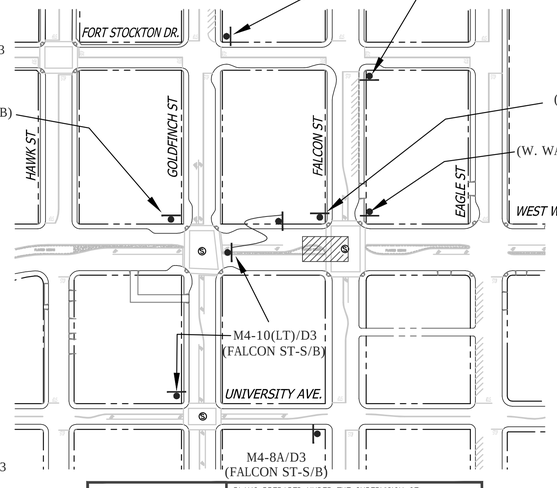
W4-2(LT)

GOLDFINCH STREET
EAGLE STREET
DOVE STREET
WEST WASHINGTON ST.
FALCON STREET

W20-1, G20-2, 150', 165', 115' SHIFT TAPER & TEMP. NO PKG. ZONE, 60' MIN. OPENING, R61(MOD), R61(MOD)/M4-10(RT), 12' MIN, R4-7A, 200' BUFFER, 50', 245' TAPER, 250', M4-8/D3 (W. WASHINGTON ST-W/B), BUS STOP, EXTG. R2-1 (35 MPH), EXTG. R1-1, STOP, R9-3A, M4-10(LT)/D3 (FALCON ST-S/B), 20' MIN, C30(CA), C12(CA), R11-2, R3-2, EXTG R3-4, EXTG R3-18, PLANTED MEDIAN, 14' MIN, 6, FLASHING ARROW BOARD, 70' MIN.

W1-4(RT), 100' SHIFT TAPER, 50' BUFFER, 80' WORK ZONE, R5-1/R5-1A, 90' TURN LANE CLOSURE, 25', R4-7A, R3-2, DO NOT ENTER R5-1, WRONG WAY R5-1A, END DETOUR M4-8a W. WASHINGTON ST-WESTBOUND D3, M4-8A/D3 (W. WASHINGTON ST-W/B), R11-3A(MOD)/D3 (W. WASHINGTON ST-W/B), 36" MIN., ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY, W.WASHINGTON ST-WESTBOUND D3, R11-3a(MOD), LANE CLOSED C30 (CA), R9-3a, NARROW LANE C12(CA), END ROAD WORK G20-2, ROAD WORK AHEAD W20-1, DETOUR M4-10(LT) FALCON ST-SOUTHBOUND D3, END DETOUR M4-8a FALCON ST-SOUTHBOUND D3, DETOUR M4-10(LT) W. WASHINGTON ST-WESTBOUND D3, DETOUR M4-10(RT) FALCON ST-SOUTHBOUND D3

DETOUR ROUTE
FOR DWG. TC-20 & TC-21



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 20

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT FALCON STREET
PHASE 10

CITY OF SAN DIEGO, CALIFORNIA
SHEET 20 OF 249 SHEETS

W.B.S.
WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

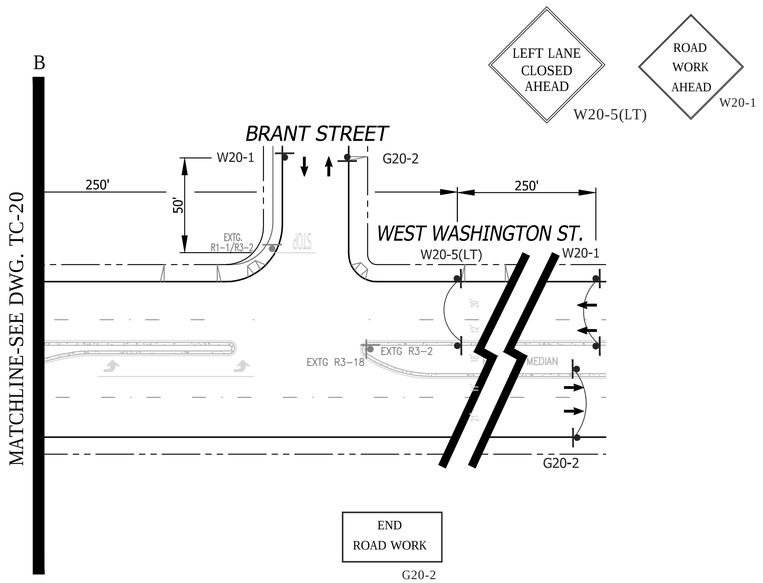
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

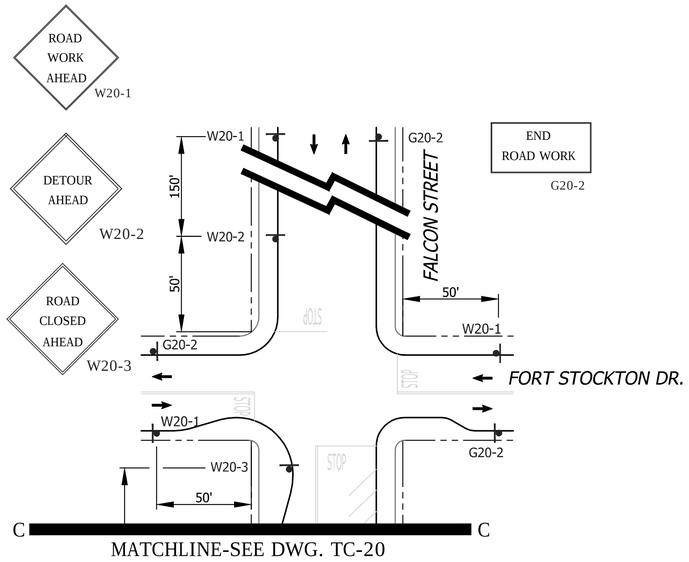
210–1713
CCS27 COORDINATE
1850444–6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T20-D

PHASE 10 (CONTINUED)





SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 21

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET - PHASE 10
(CONTINUATION SHEET FOR TC-20)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 21 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

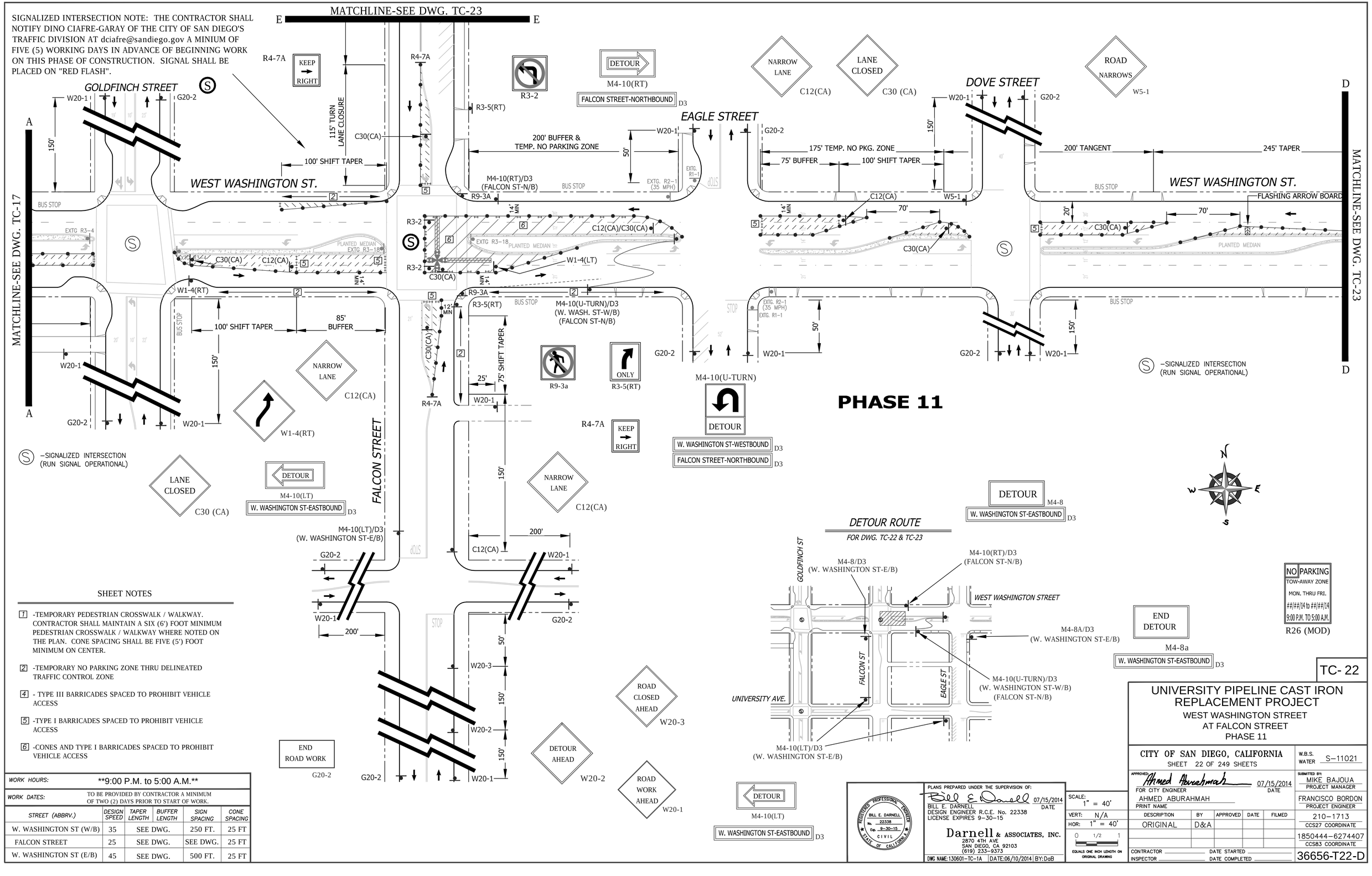
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T21-D

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



PHASE 11

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

DETOUR ROUTE

FOR DWG. TC-22 & TC-23

DETOUR
M4-8
W. WASHINGTON ST-EASTBOUND D3

END DETOUR
M4-8a
W. WASHINGTON ST-EASTBOUND D3

DETOUR
M4-10(LT)
W. WASHINGTON ST-EASTBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 22

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET
PHASE 11

CITY OF SAN DIEGO, CALIFORNIA
SHEET 22 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

210–1713 CCS27 COORDINATE
1850444–6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T22-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9–30–15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

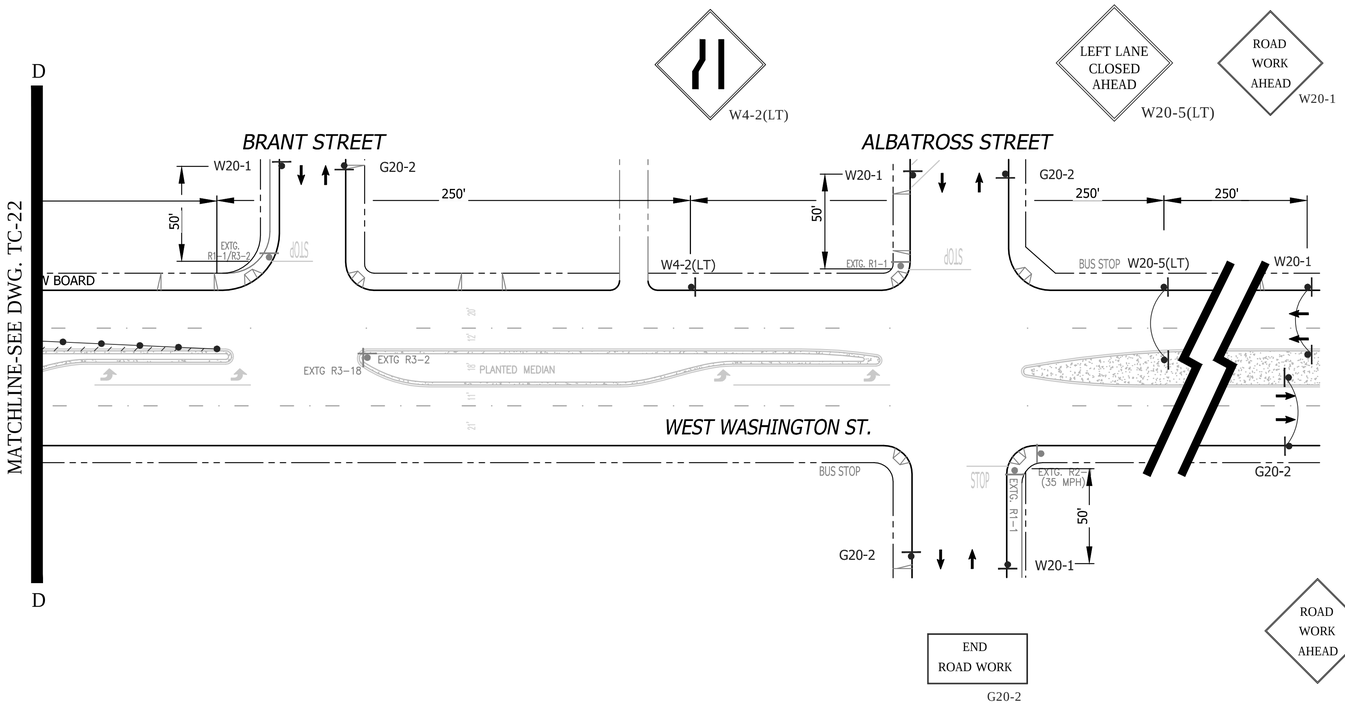
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

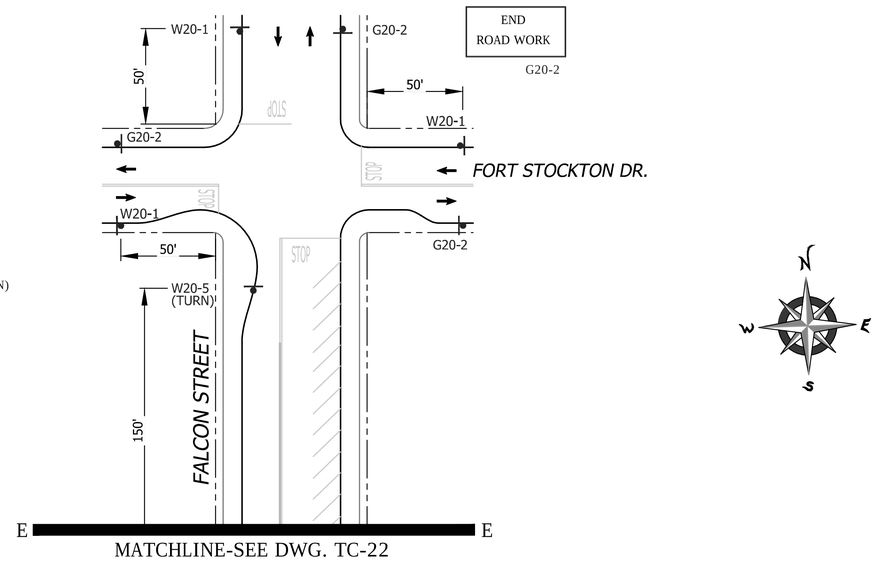
DWG NAME: 130601–TC–1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

PHASE 11 (CONTINUED)





GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 23

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET - PHASE 11
(CONTINUATION SHEET FOR TC-22)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 23 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T23-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

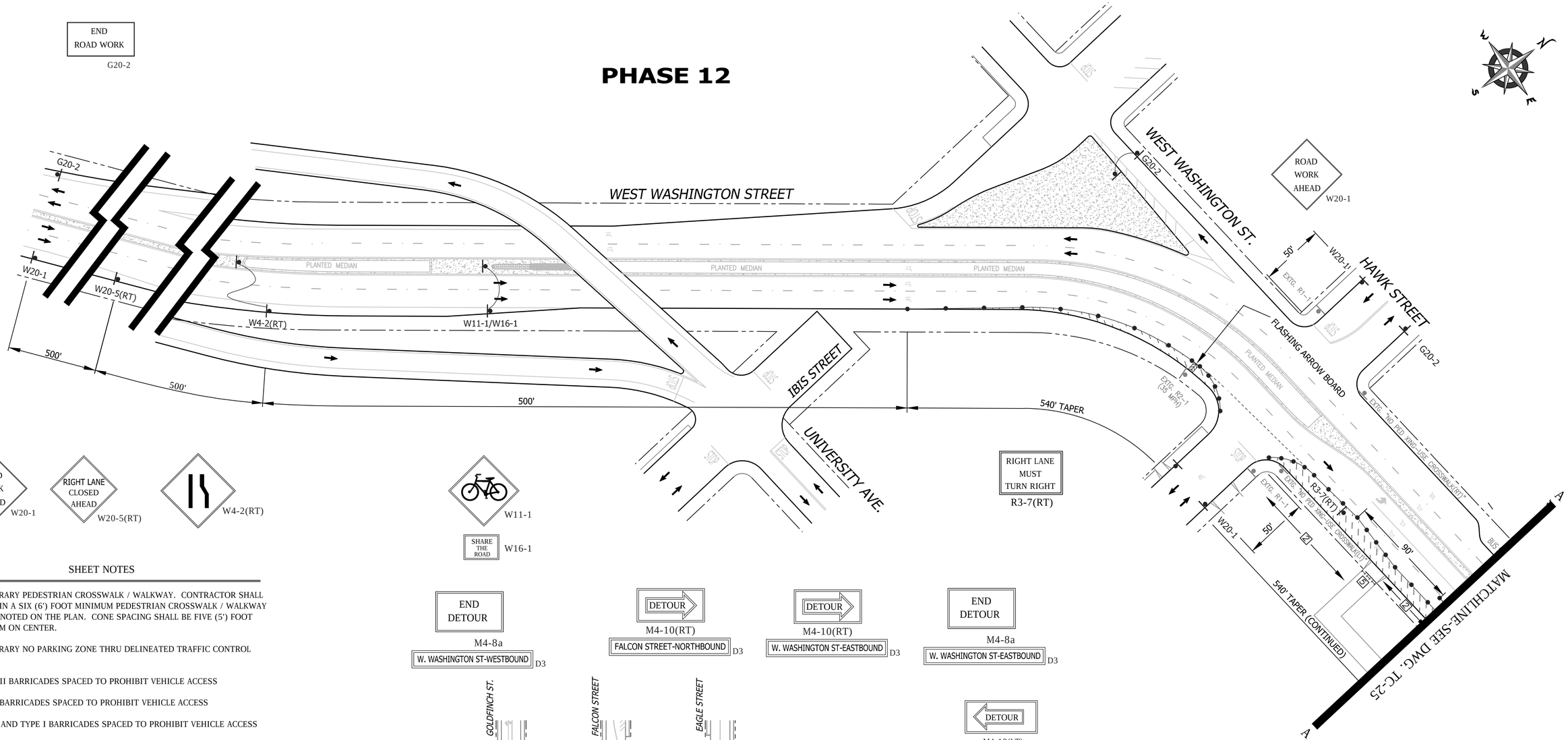
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 12

END ROAD WORK
G20-2



ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

W11-1

SHARE THE ROAD W16-1

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

END DETOUR
M4-8a
W. WASHINGTON ST-WESTBOUND D3

DETOUR
M4-10(RT)
FALCON STREET-NORTHBOUND D3

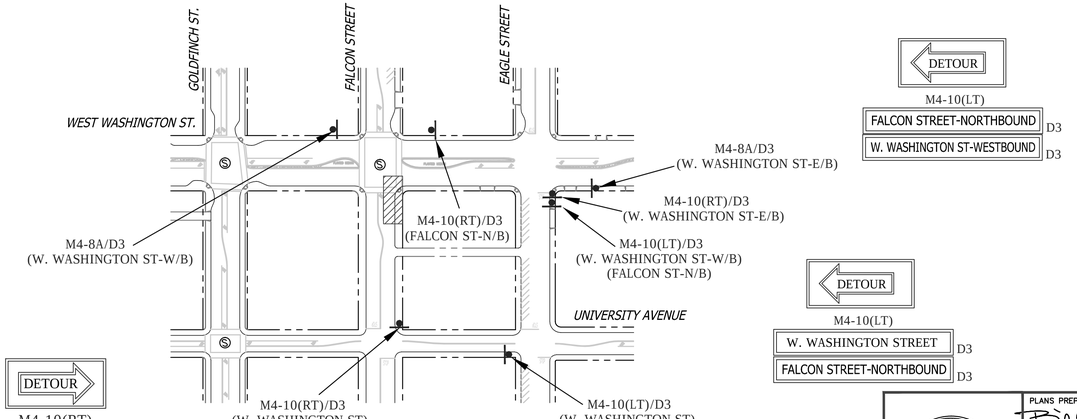
DETOUR
M4-10(RT)
W. WASHINGTON ST-EASTBOUND D3

END DETOUR
M4-8a
W. WASHINGTON ST-EASTBOUND D3

DETOUR
M4-10(LT)
FALCON STREET-NORTHBOUND D3
W. WASHINGTON ST-WESTBOUND D3

DETOUR
M4-10(LT)
W. WASHINGTON STREET D3
FALCON STREET-NORTHBOUND D3

DETOUR
M4-10(RT)
W. WASHINGTON STREET D3
FALCON STREET-NORTHBOUND D3



DETOUR ROUTE
FOR DWG.s TC-24 & TC-25

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 24

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET
PHASE 12

CITY OF SAN DIEGO, CALIFORNIA
SHEET 24 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

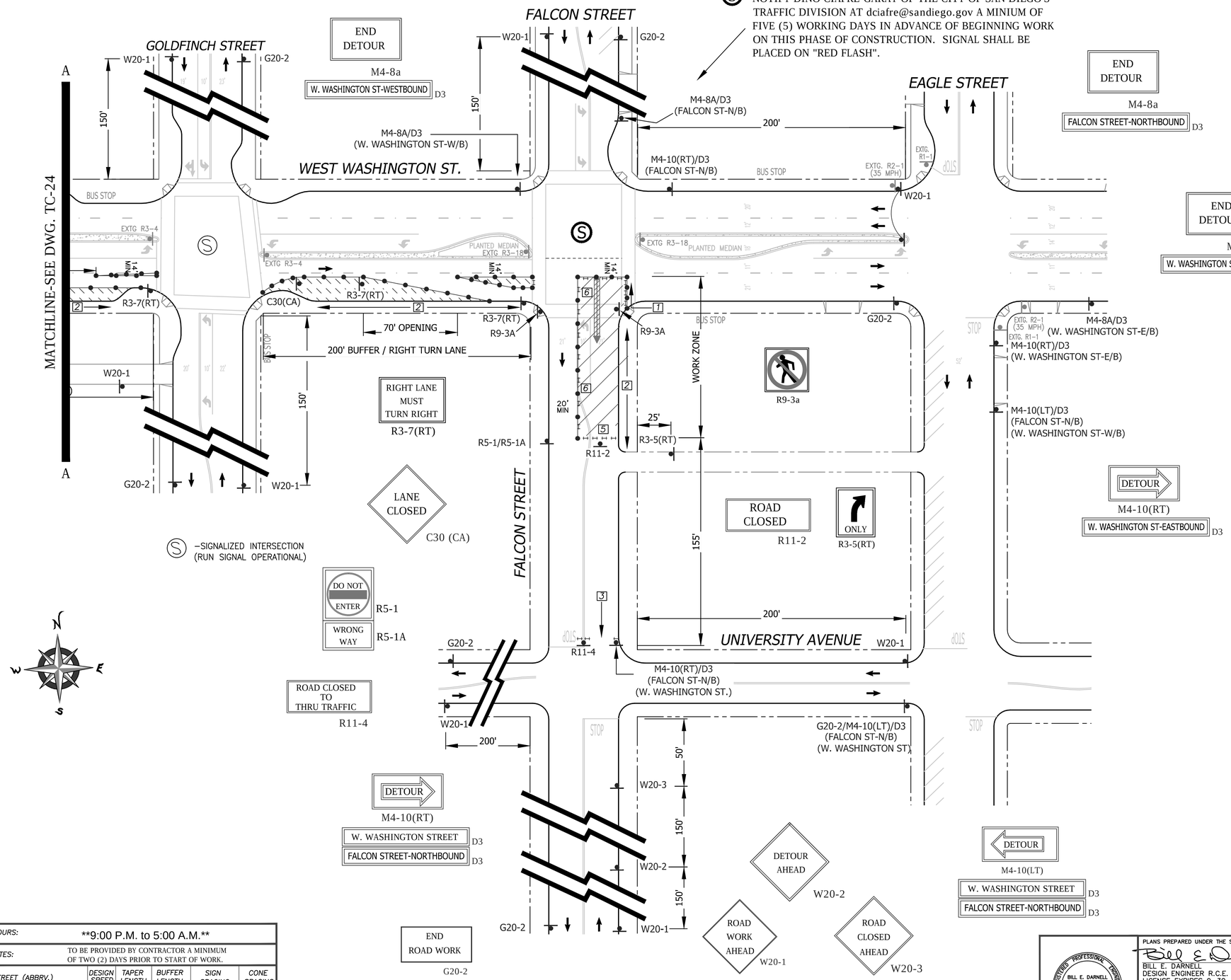
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T24-D

SEE DRAWING TC-24 FOR ACCOMPANYING DETOUR ROUTE

PHASE 12 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	SEE DWG.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 25

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET
PHASE 12

CITY OF SAN DIEGO, CALIFORNIA
SHEET 25 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

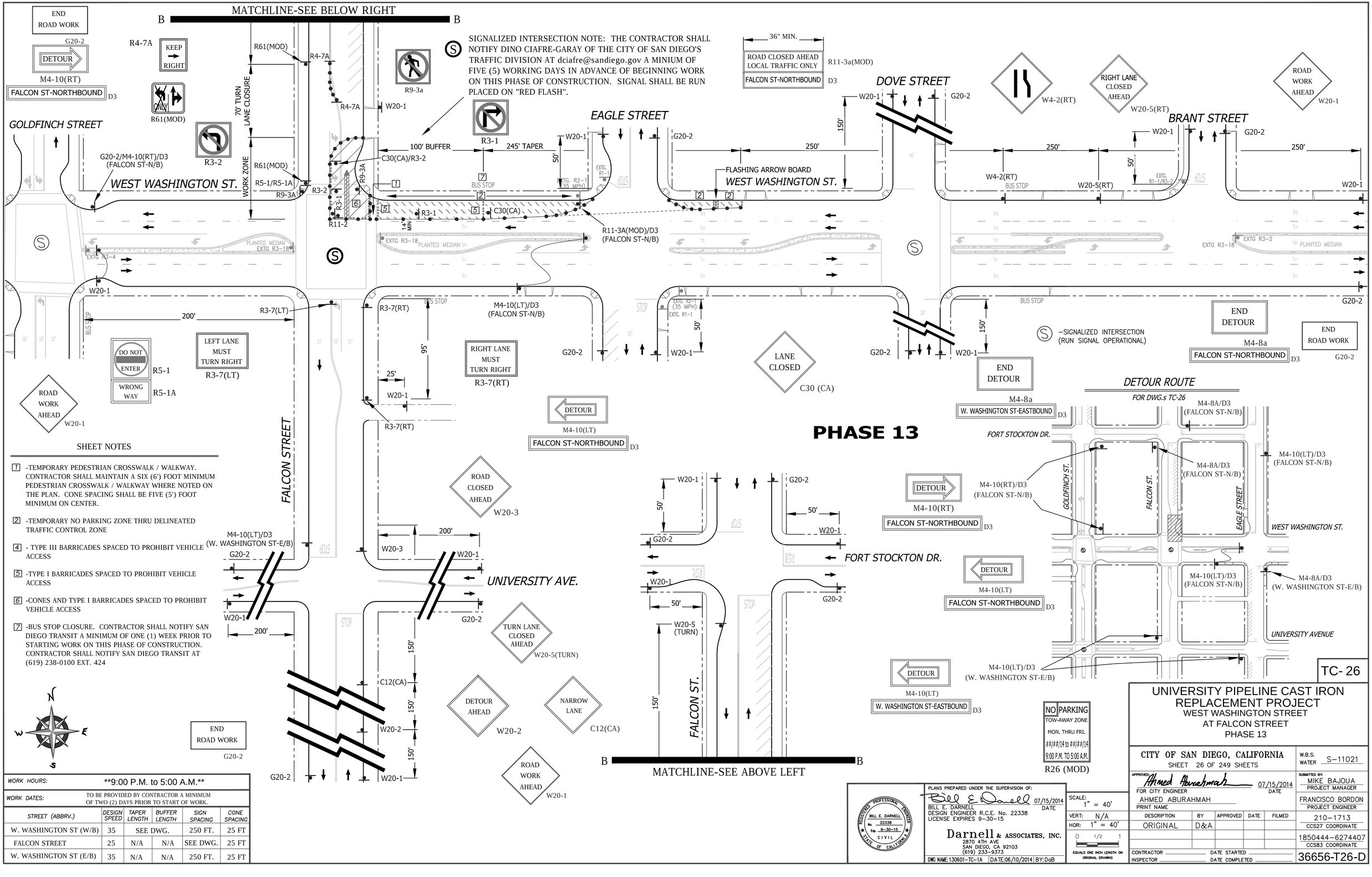
SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T25-D



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
7. -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 26

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT FALCON STREET
PHASE 13

CITY OF SAN DIEGO, CALIFORNIA
SHEET 26 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

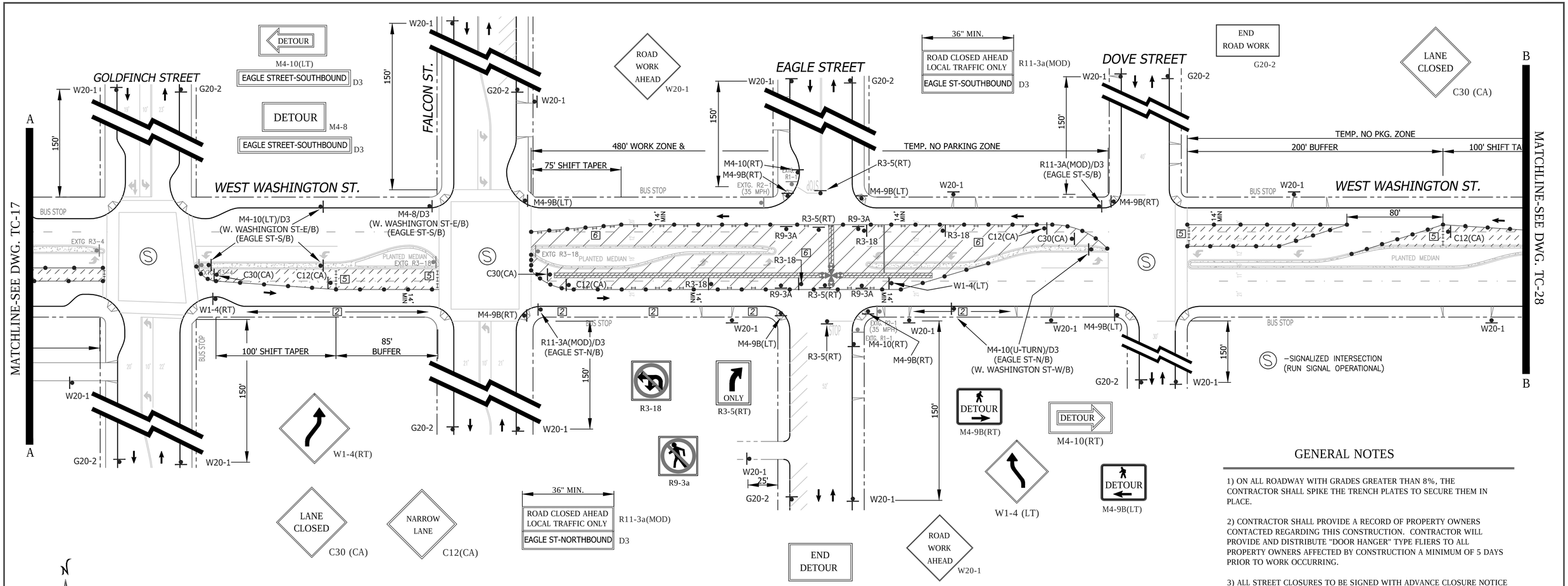
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T26-D



PHASE 14

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 27

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
FALCON STREET TO DOVE STREET
PHASE 14

CITY OF SAN DIEGO, CALIFORNIA
SHEET 27 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

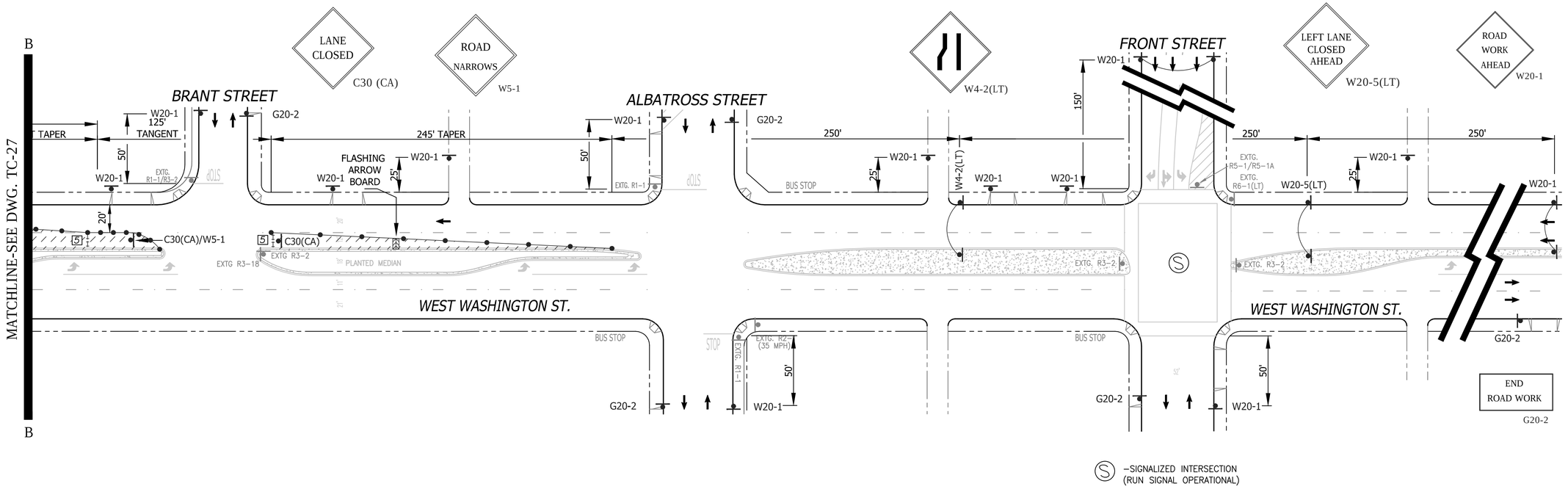
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T27-D



PHASE 14 (CONTINUED)

SHEET NOTES

7 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 28

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
FALCON STREET TO DOVE STREET
(CONTINUATION SHEET FOR TC-26)
PHASE 14

CITY OF SAN DIEGO, CALIFORNIA
SHEET 28 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1713 CCS27 COORDINATE
1850444–6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T28-D

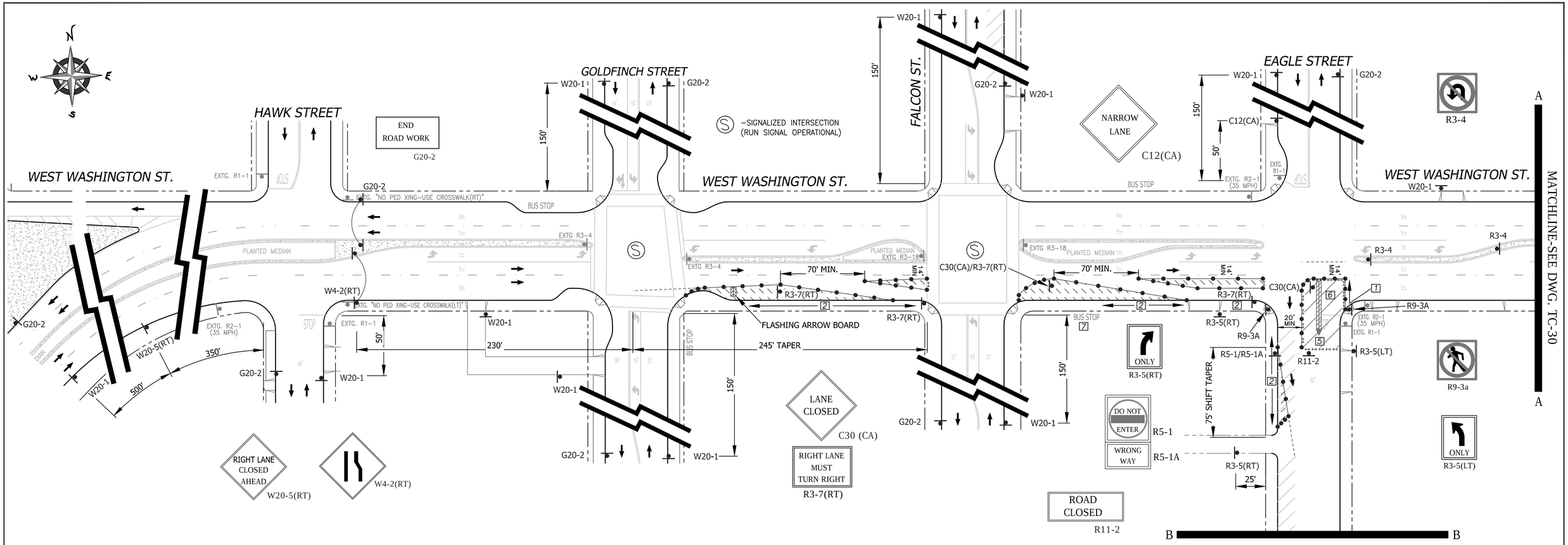
REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME:130601–TC–1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 15

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 - TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

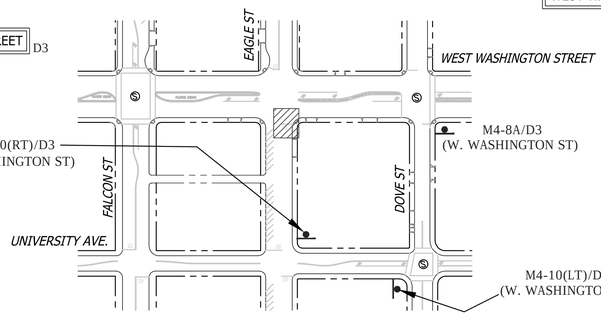
6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

DETOUR
M4-10(RT)
WEST WASHINGTON STREET D3

DETOUR
M4-10(LT)
WEST WASHINGTON STREET D3

DETOUR ROUTE

FOR DWG. TC-29 & T-30



END DETOUR
M4-8a
WEST WASHINGTON STREET D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 29

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT EAGLE STREET
PHASE 15

CITY OF SAN DIEGO, CALIFORNIA
SHEET 29 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME
DATE

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1713
CCS27 COORDINATE

1850444–6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T29-D

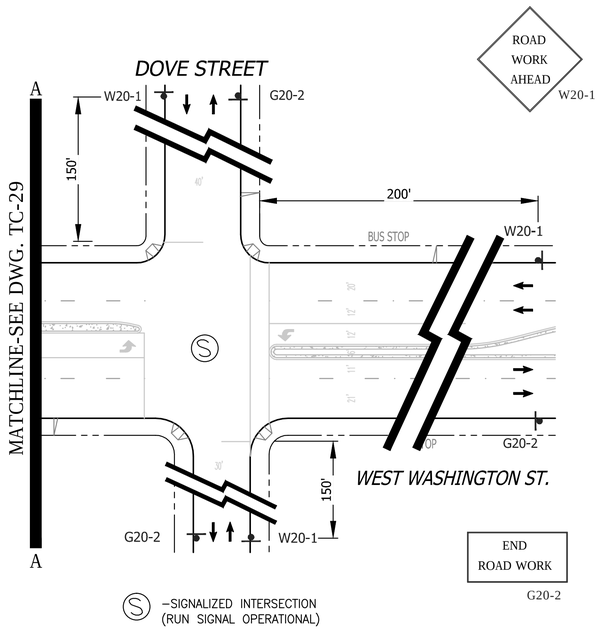
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9–30–15
CIVIL
STATE OF CALIFORNIA

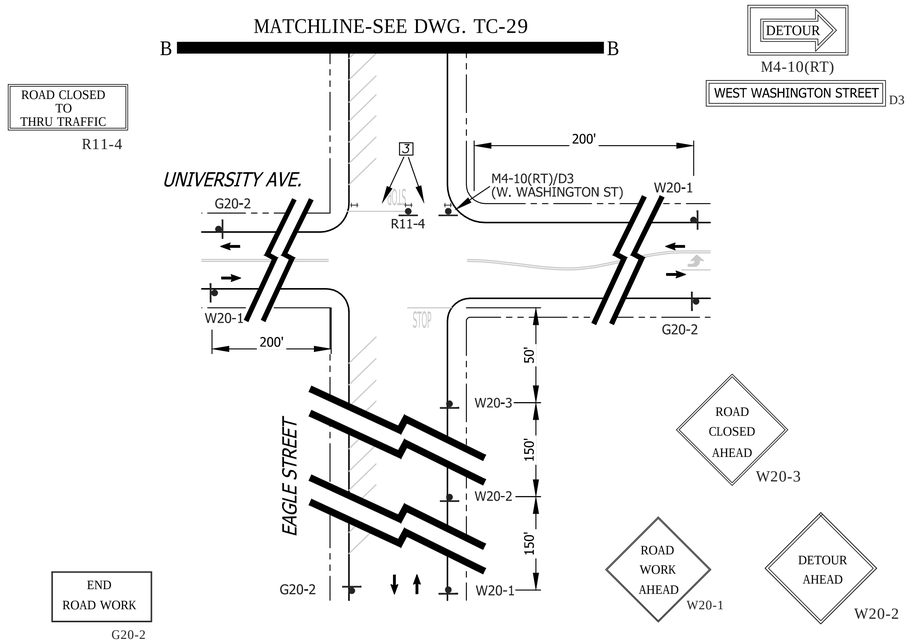
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME: 130601–TC–1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING





PHASE 15 (CONTINUED)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 - TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 30

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT EAGLE STREET
(CONTINUATION SHEET FOR TC-29)
PHASE 15

CITY OF SAN DIEGO, CALIFORNIA
SHEET 30 OF 249 SHEETS

W.B.S.
WATER S-11021

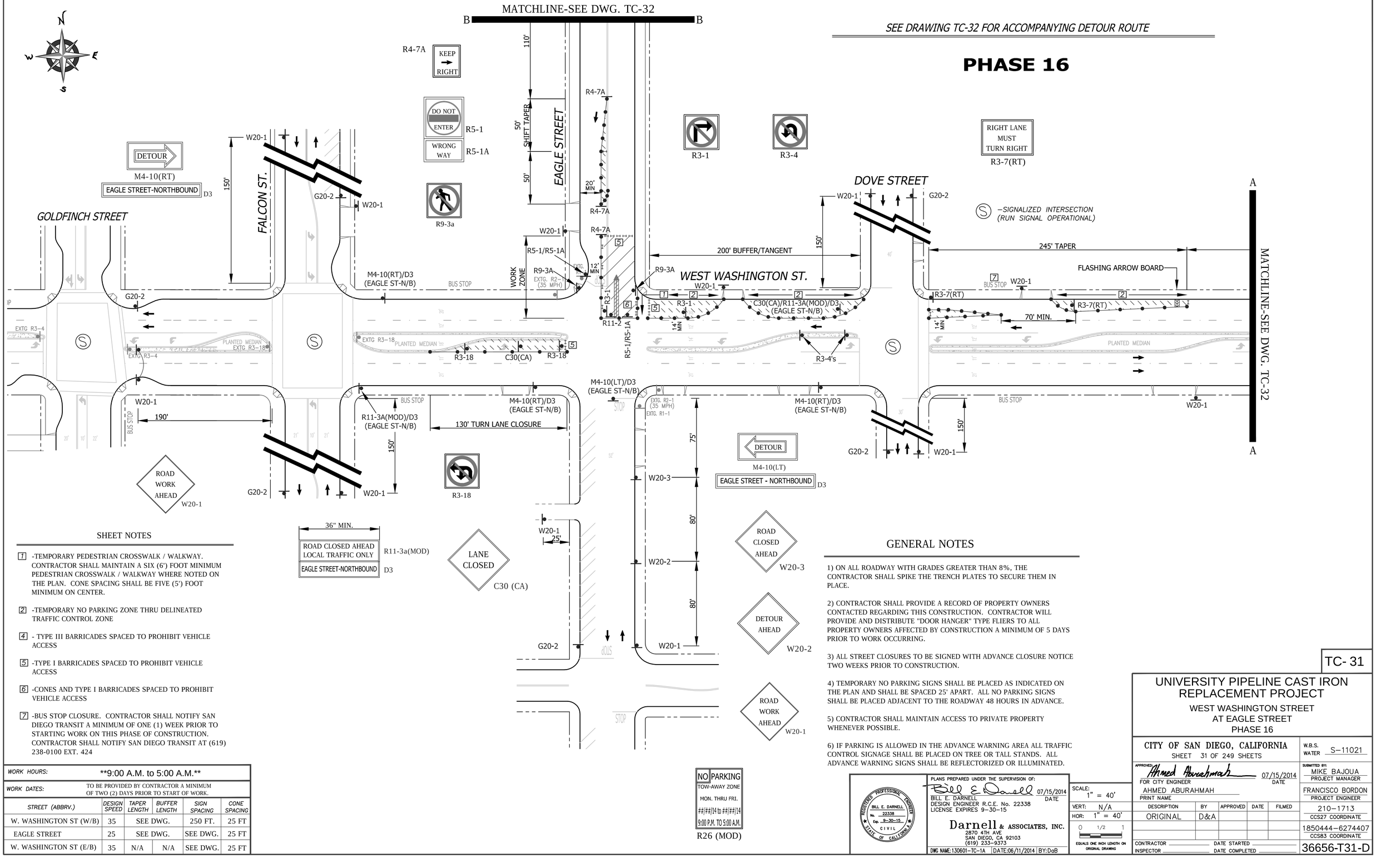
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
36656-T30-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 A.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	SEE DWG.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 31

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT EAGLE STREET
PHASE 16

CITY OF SAN DIEGO, CALIFORNIA
SHEET 31 OF 249 SHEETS

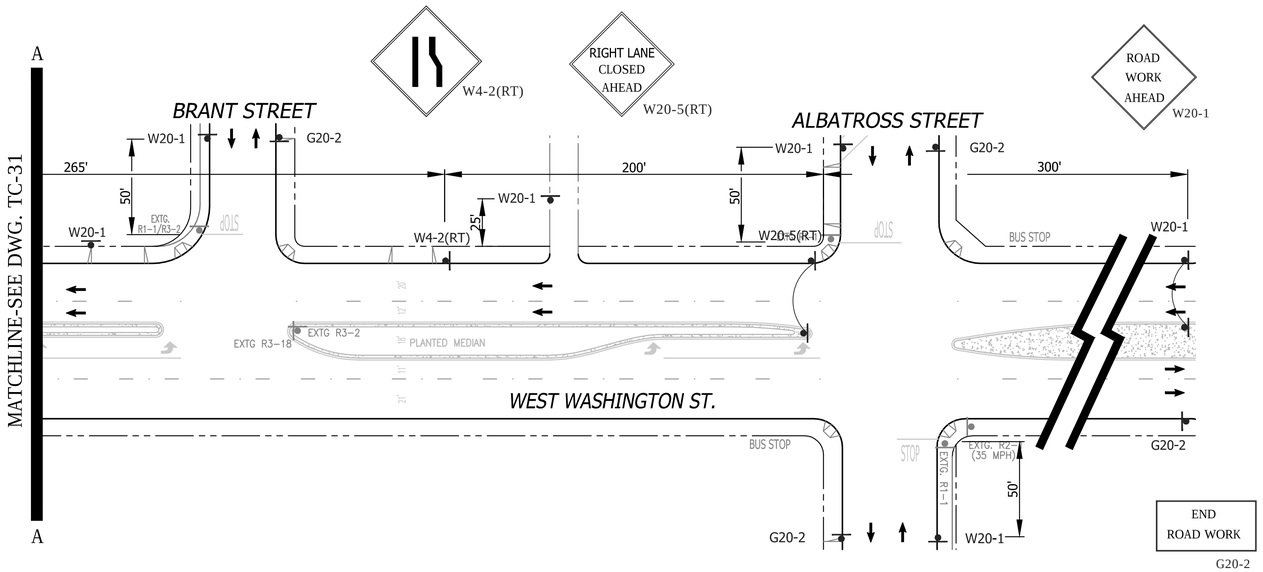
W.B.S. WATER S-11021

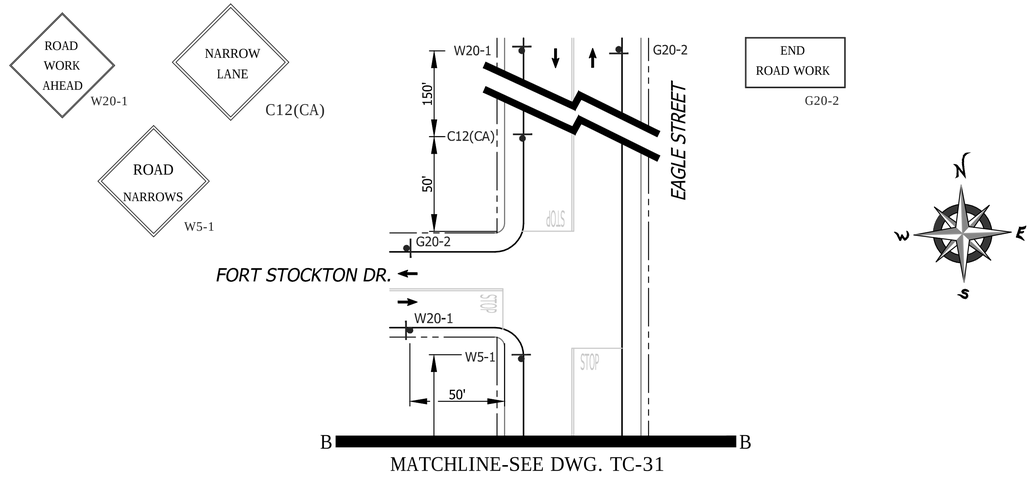
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED
36656-T31-D

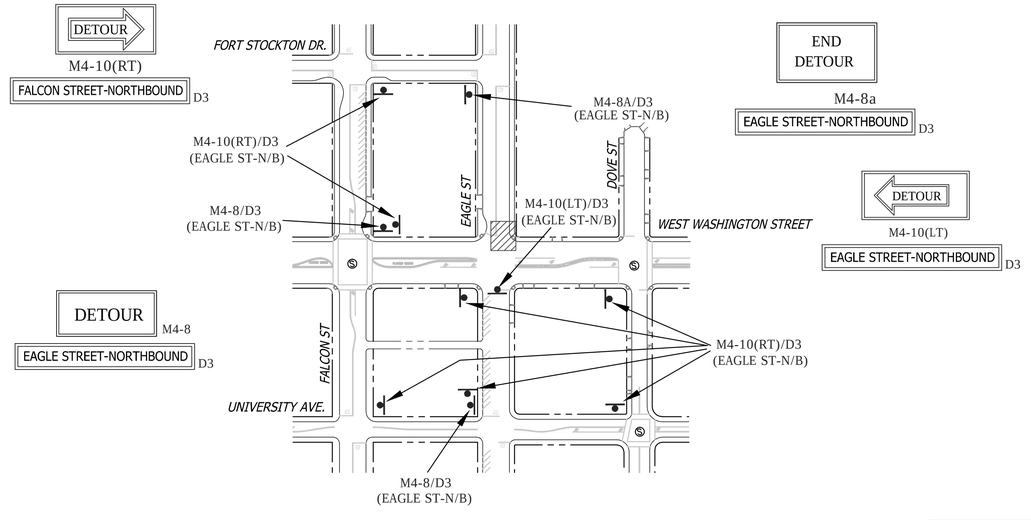




PHASE 16 (CONTINUED)

DETOUR ROUTE

FOR DWG. T31 & T32



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
7. -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

TC- 32

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT EAGLE STREET
(CONTINUATION SHEET FOR TC-31) PHASE 16

CITY OF SAN DIEGO, CALIFORNIA
SHEET 32 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
36656-T32-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

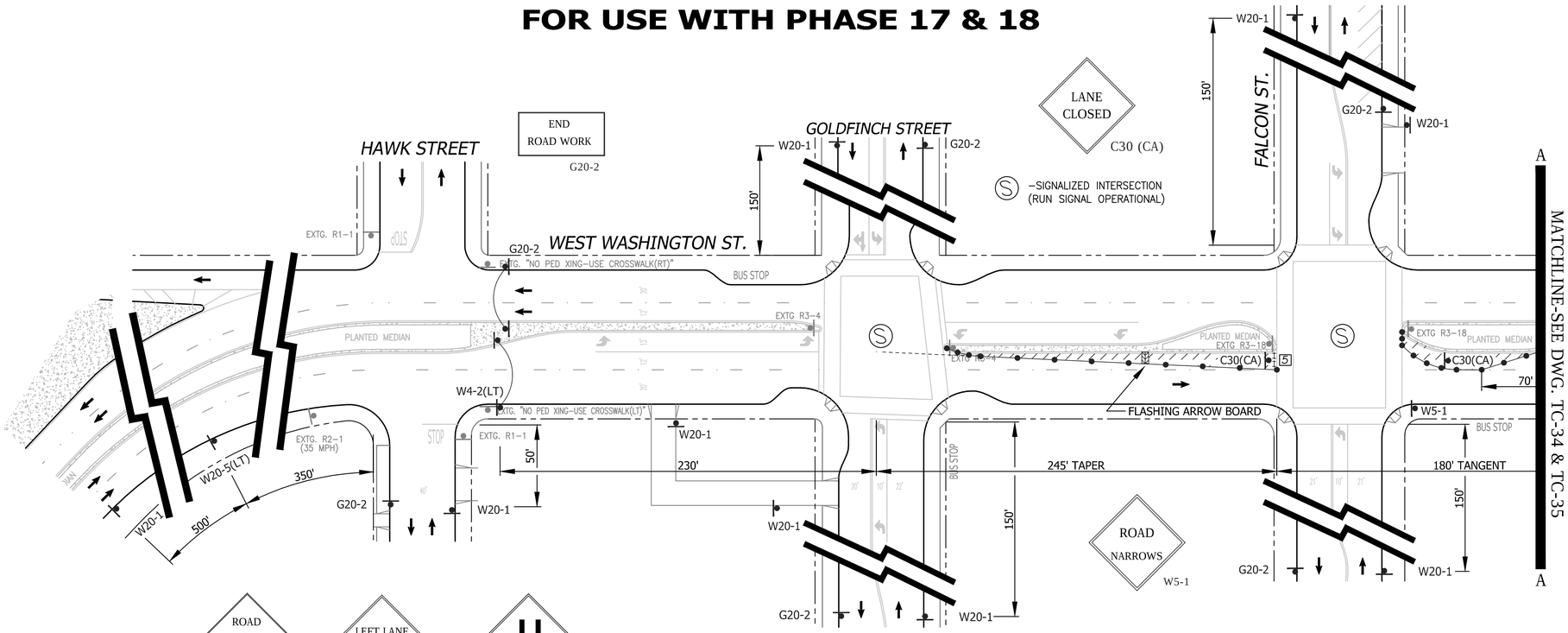
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

FOR USE WITH PHASE 17 & 18



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

R26 (MOD)

TC- 33

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET
PHASE 17

CITY OF SAN DIEGO, CALIFORNIA
SHEET 33 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T33-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

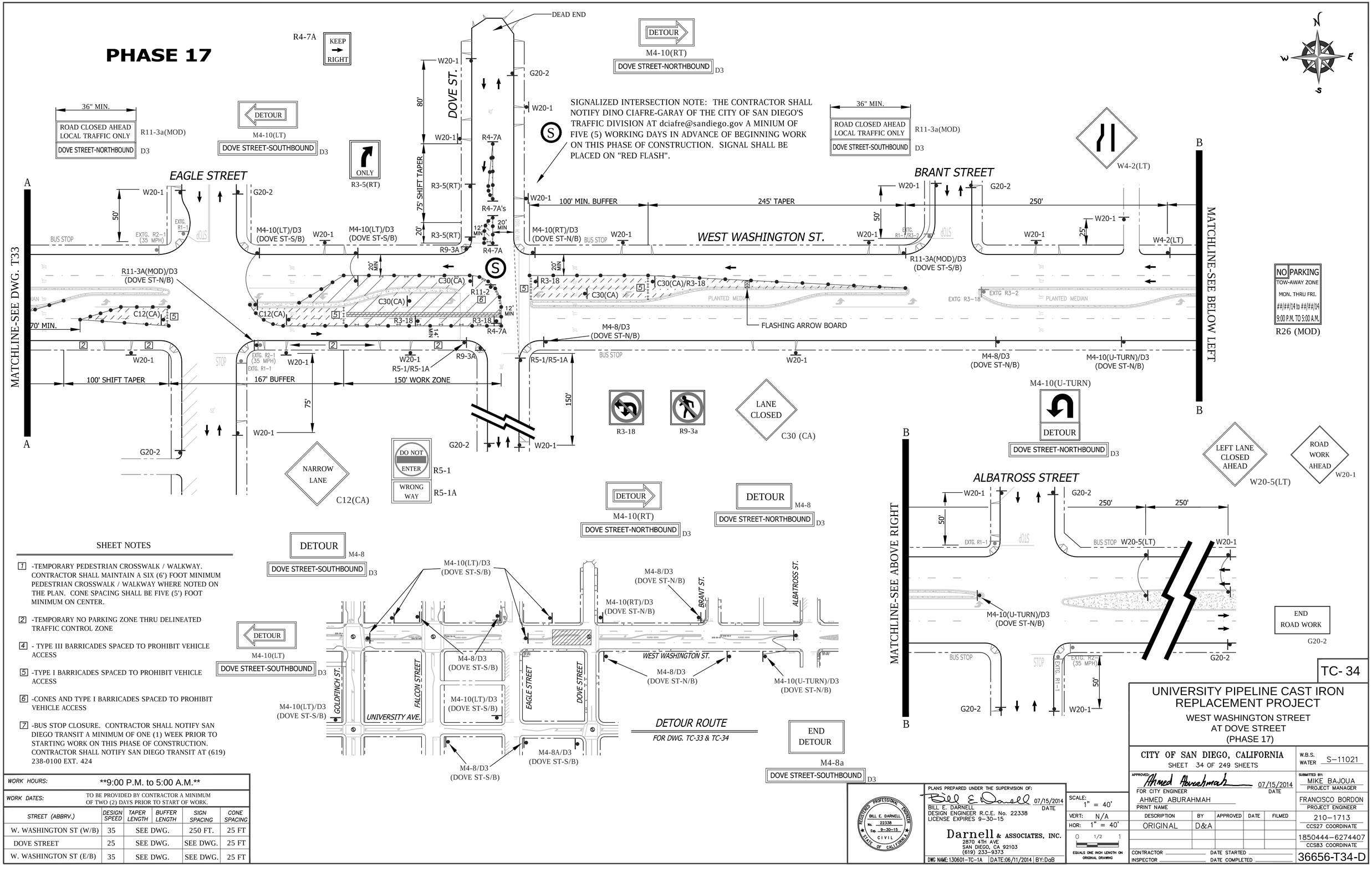
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 17



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
7. -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	250 FT.	25 FT
DOVE STREET	25	SEE DWG.	SEE DWG.	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	SEE DWG.	SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 34

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET
(PHASE 17)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 34 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

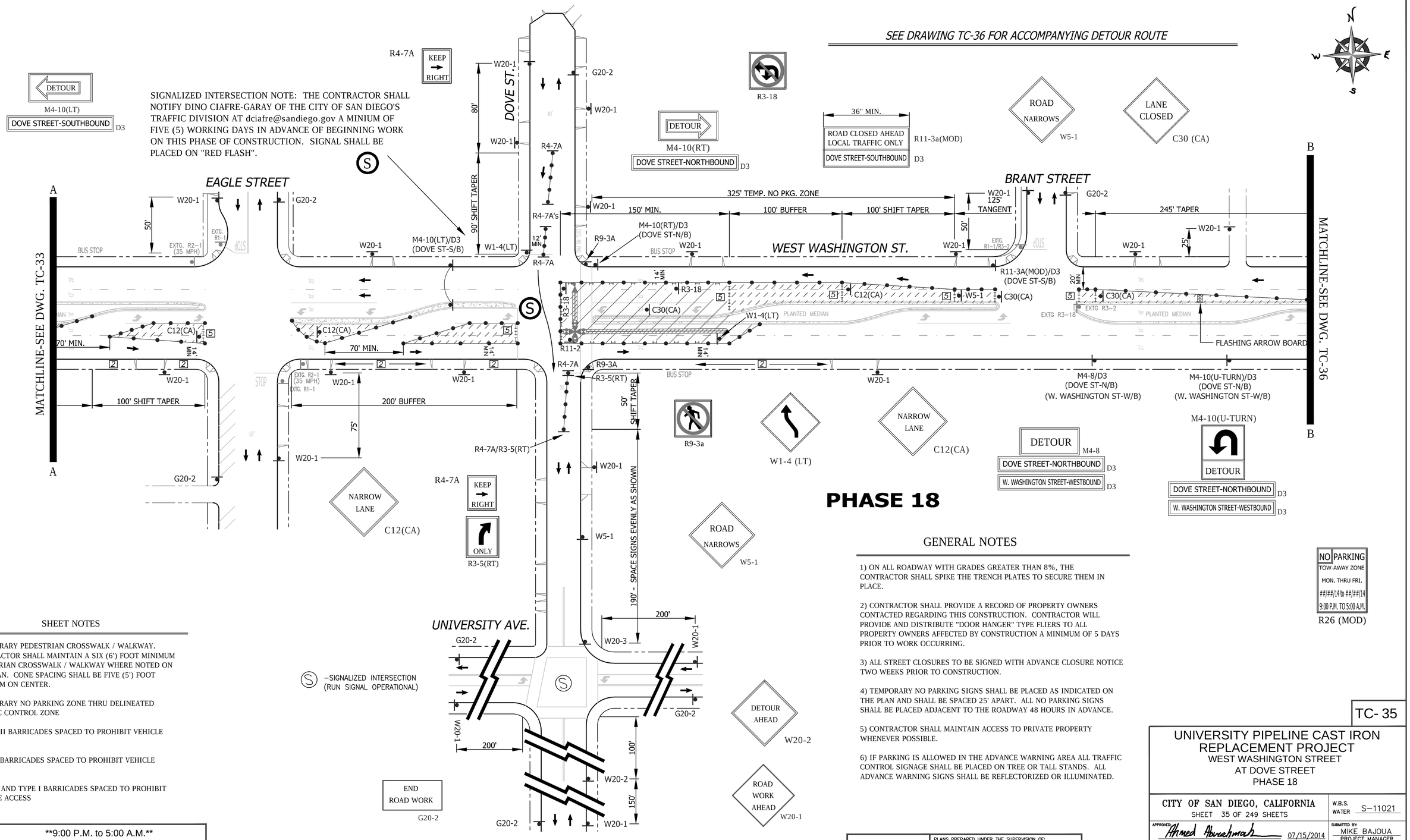
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T34-D



PHASE 18

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

S –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 35

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT DOVE STREET
PHASE 18

CITY OF SAN DIEGO, CALIFORNIA
SHEET 35 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

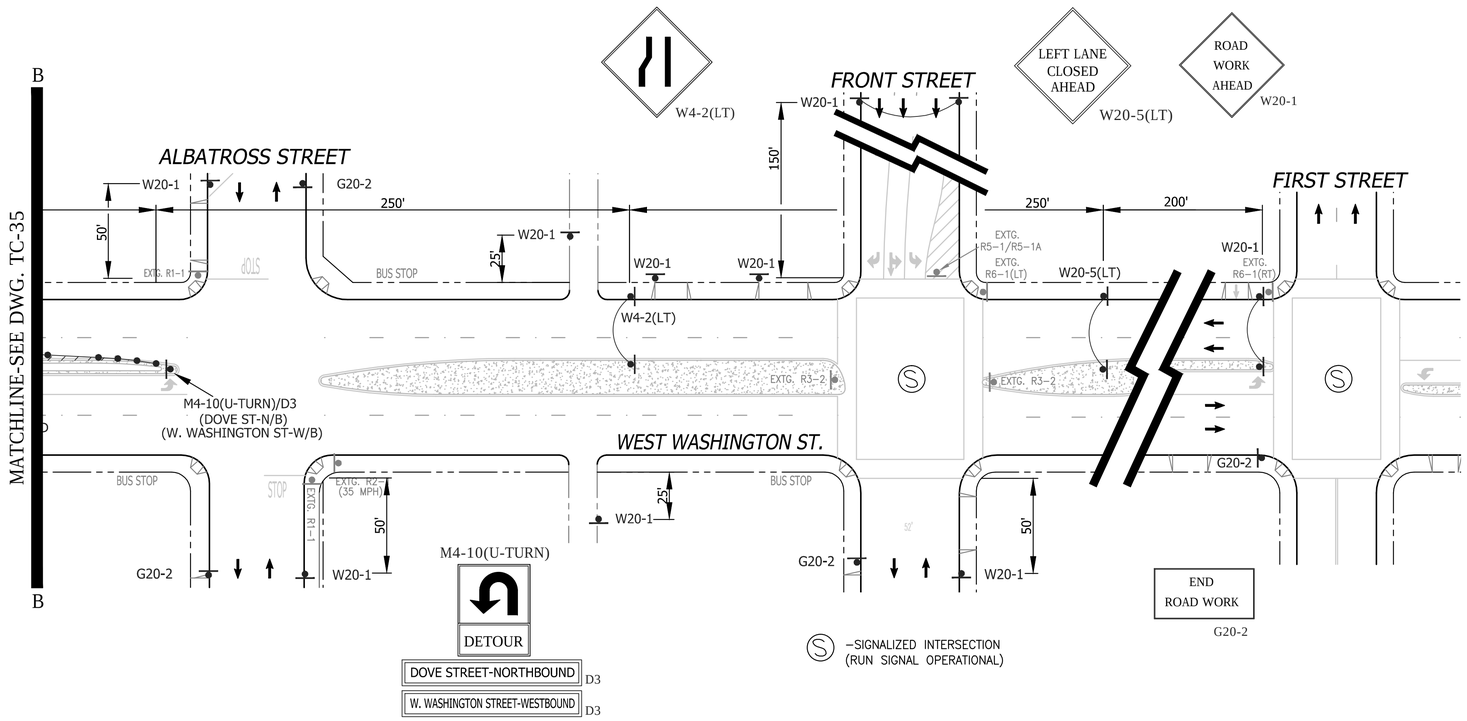
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T35-D

PHASE 18 (CONTINUED)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

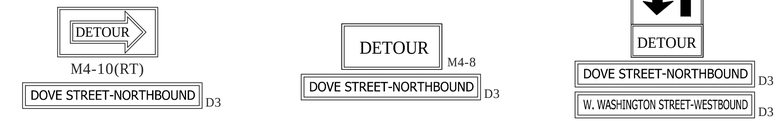
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SHEET NOTES

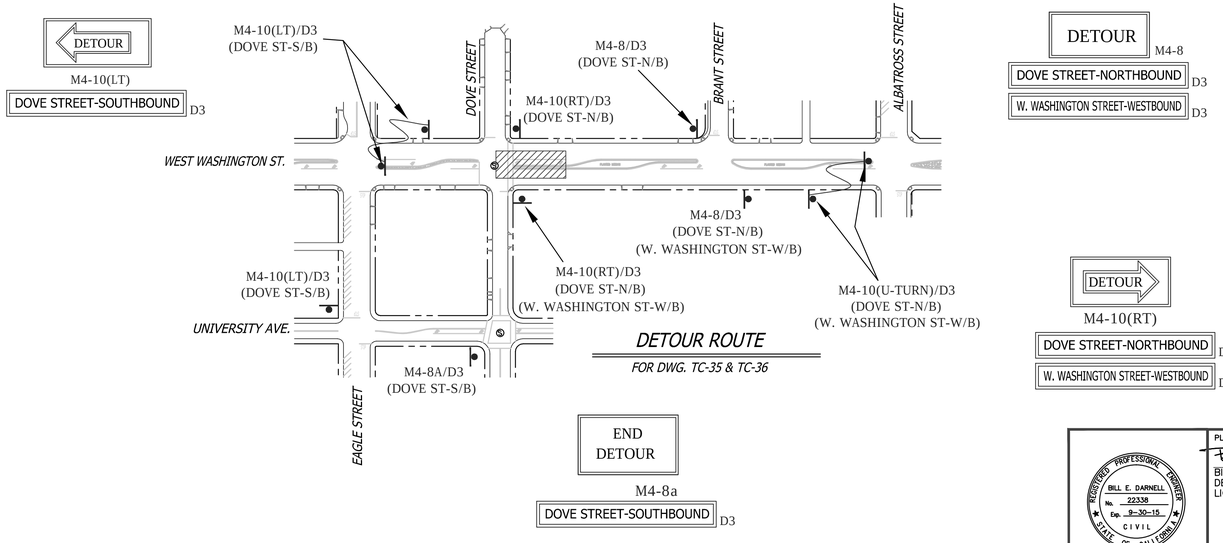
1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

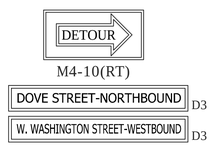
2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS





WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 36

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET (PHASE 18)
CONTINUATION SHEET FOR DWG. TC-35

CITY OF SAN DIEGO, CALIFORNIA
SHEET 36 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

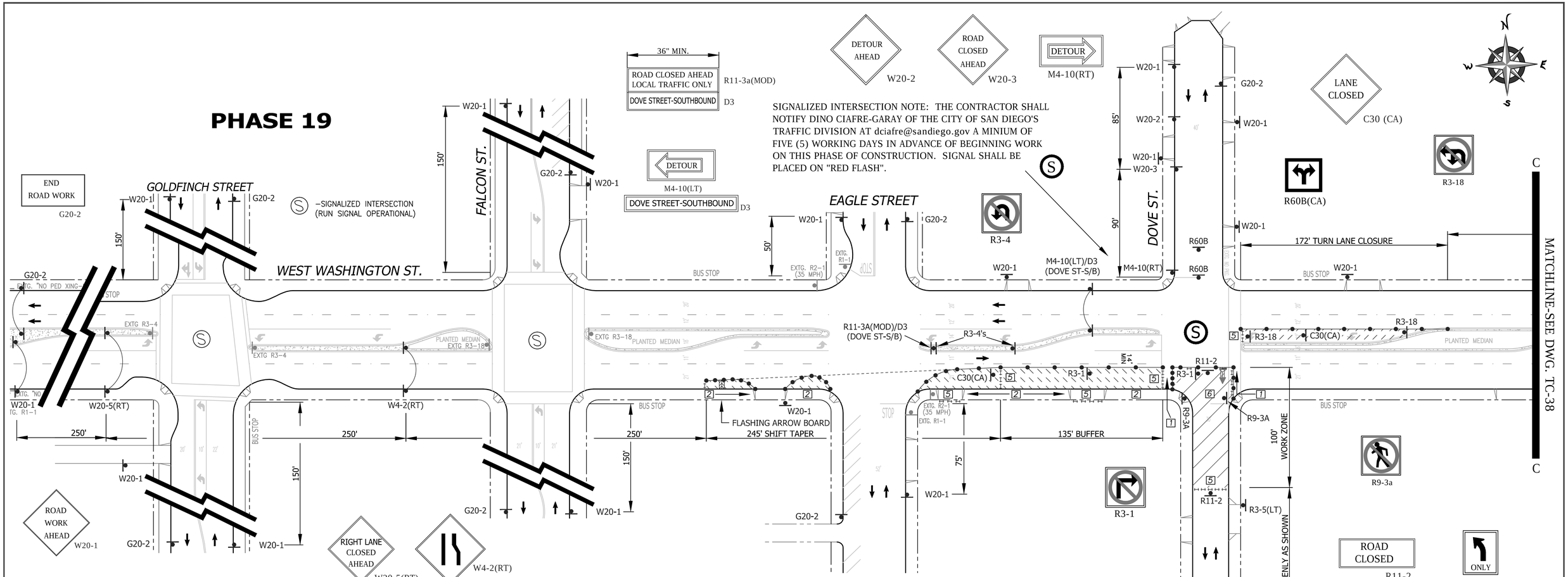
210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T36-D

PHASE 19

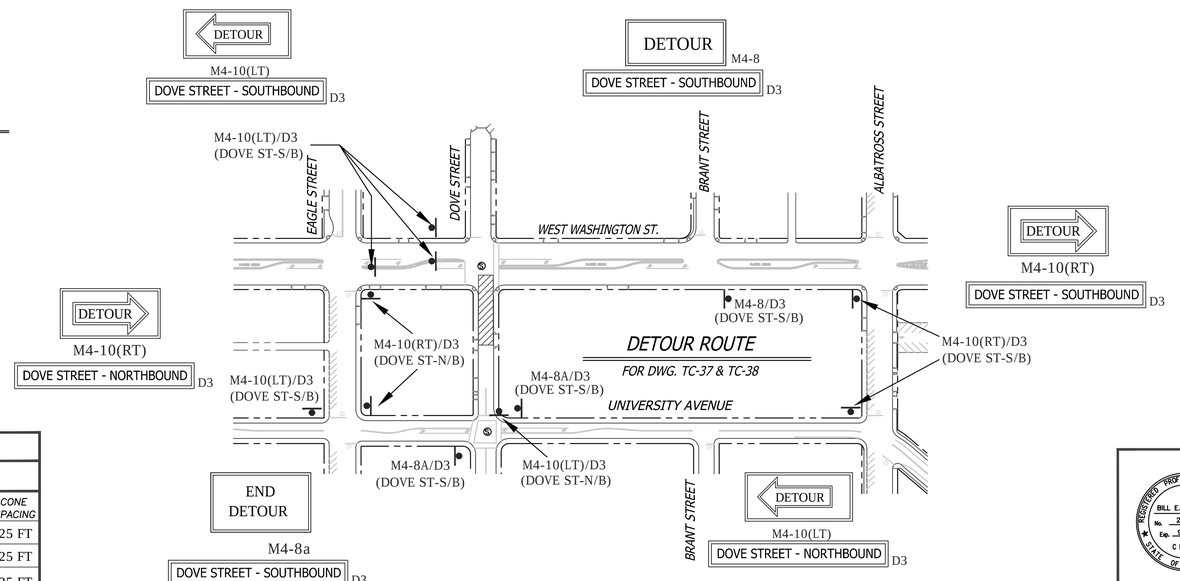
SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 37

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET
PHASE 19

CITY OF SAN DIEGO, CALIFORNIA
SHEET 37 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1713
CCS27 COORDINATE
185044–6274407
CCS83 COORDINATE
36656-T37-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

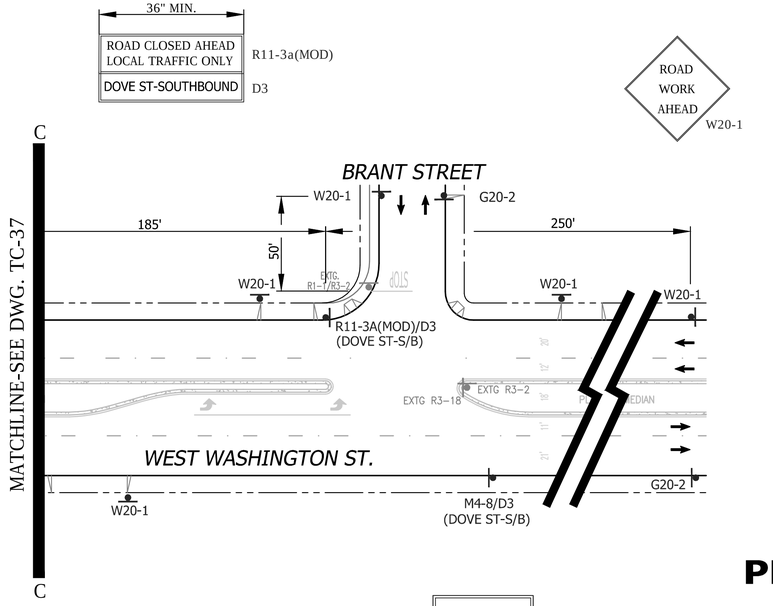
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9–30–15 — CIVIL — STATE OF CALIFORNIA

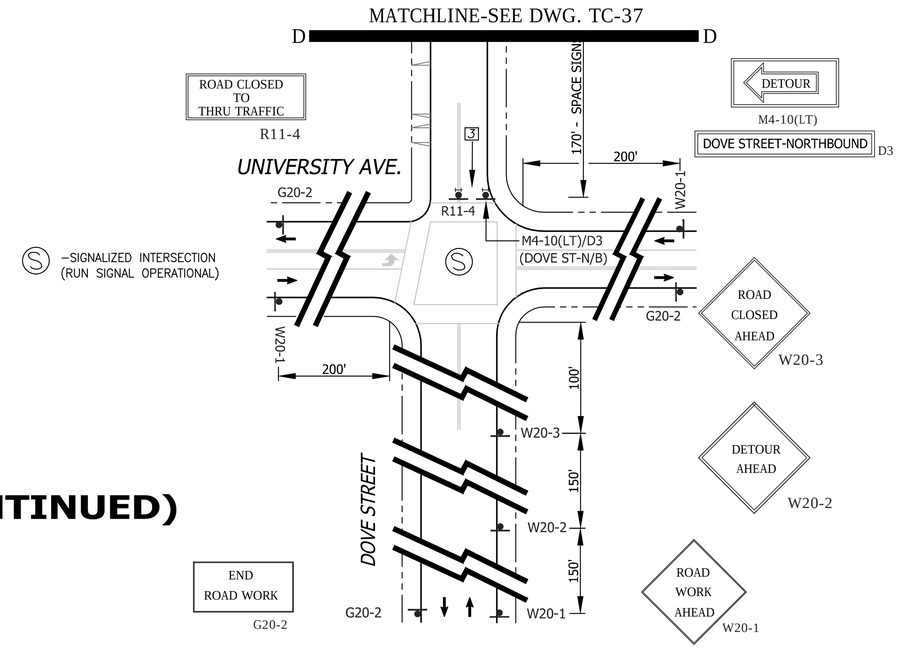
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME: 130601–TC–1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING





PHASE 19(CONTINUED)

SEE DRAWING TC-37 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 38

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET (PHASE 19)
CONTINUATION SHEET FOR DWG. TC-37

CITY OF SAN DIEGO, CALIFORNIA
SHEET 38 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

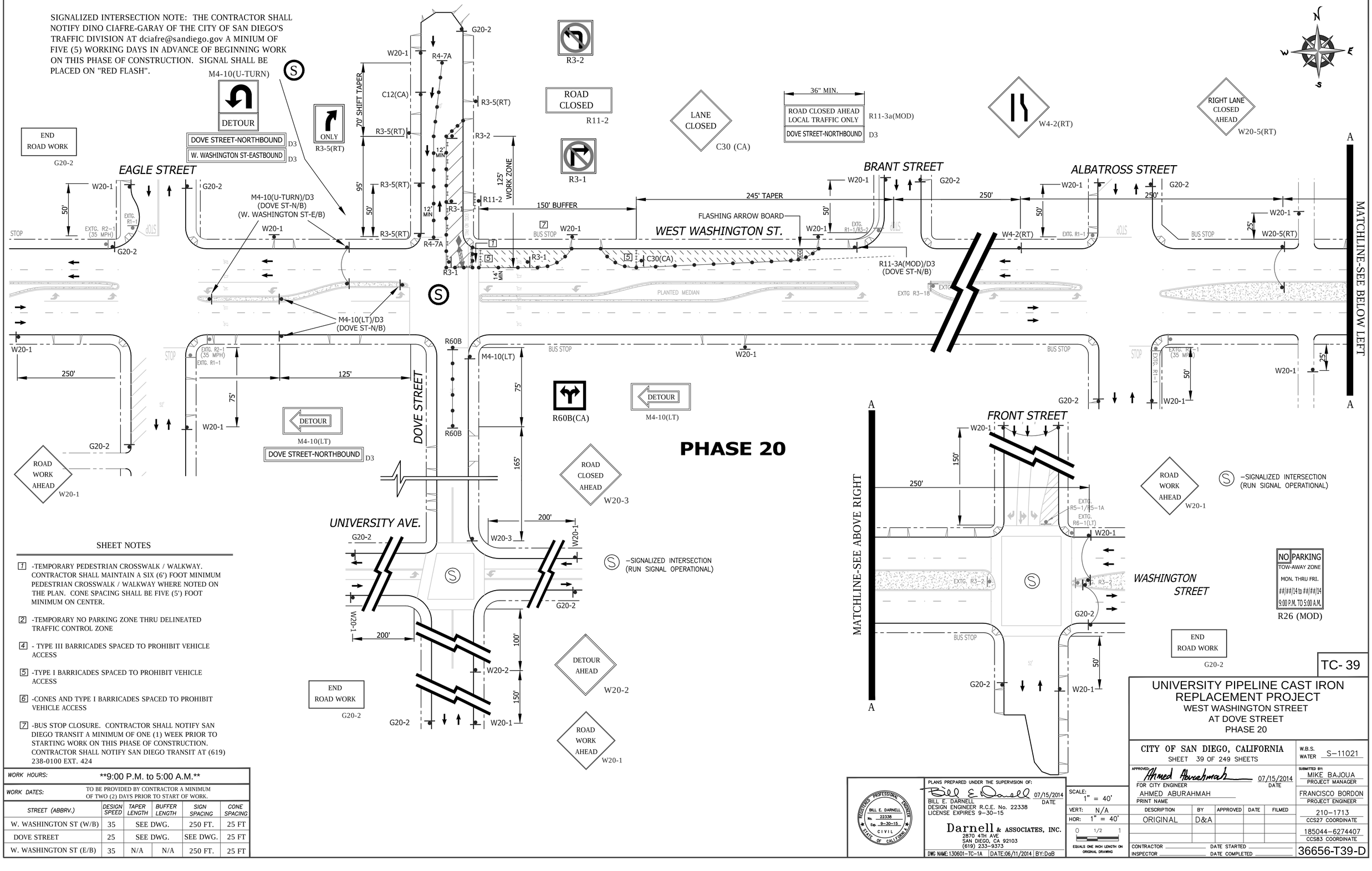
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T38-D

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



PHASE 20

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 39

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET AT DOVE STREET PHASE 20

CITY OF SAN DIEGO, CALIFORNIA
SHEET 39 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T39-D

PHASE 21

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

HAWK STREET

END ROAD WORK
G20-2

GOLDFINCH STREET

FALCON ST.

EAGLE STREET

DOVE ST.

WEST WASHINGTON ST.

BRANT STREET

ALBATROSS STREET

M4-10(U-TURN)
DETOUR
WEST WASHINGTON ST-EASTBOUND D3

M4-10(U-TURN)/D3
(W.WASHINGTON ST-E/B)

M4-10(U-TURN)/D3
(BRANT STREET)

MATCHLINE-SEE BELOW LEFT

MATCHLINE-SEE ABOVE RIGHT

MATCHLINE-SEE DWG. TC-41

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

LANE CLOSED C30 (CA)

NARROW LANE C12(CA)

ROAD NARROWS W5-1

LEFT LANE MUST TURN RIGHT R3-7(LT)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M. R26 (MOD)

R9-3a

R3-18

W1-4 (LT)

595' WORK ZONE

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 40

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
DOVE STREET TO ALBATROSS STREET
PHASE 21

CITY OF SAN DIEGO, CALIFORNIA
SHEET 40 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH DATE
PRINT NAME

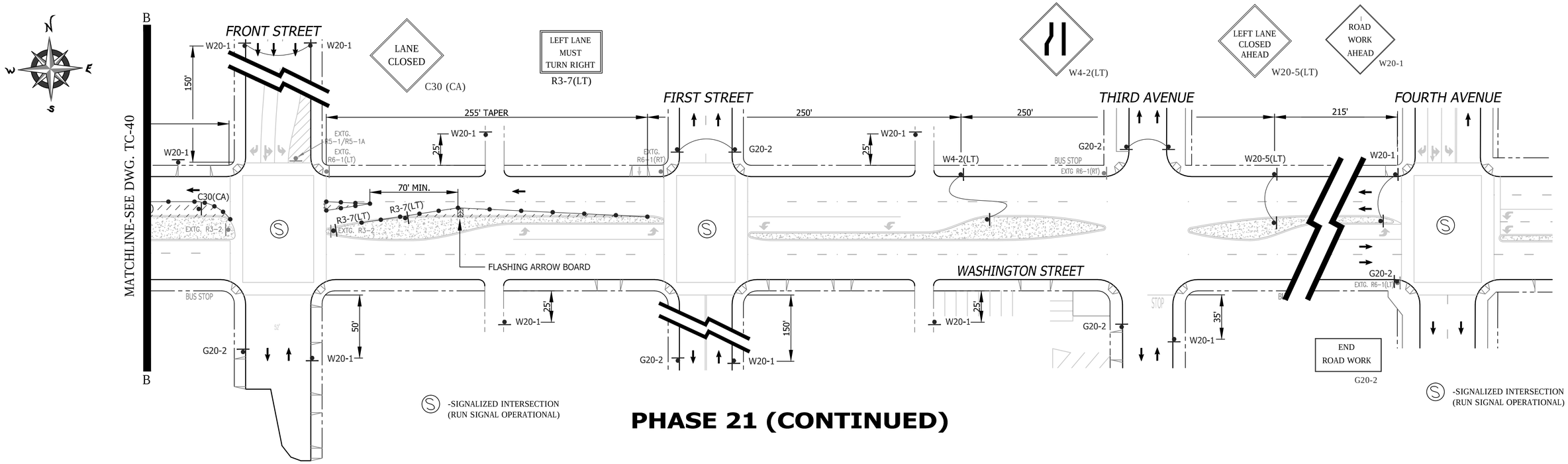
SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
185044-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T40-D



PHASE 21 (CONTINUED)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 41

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
CONTINUATION SHEET FOR DWG. T40
PHASE 21

CITY OF SAN DIEGO, CALIFORNIA
SHEET 41 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

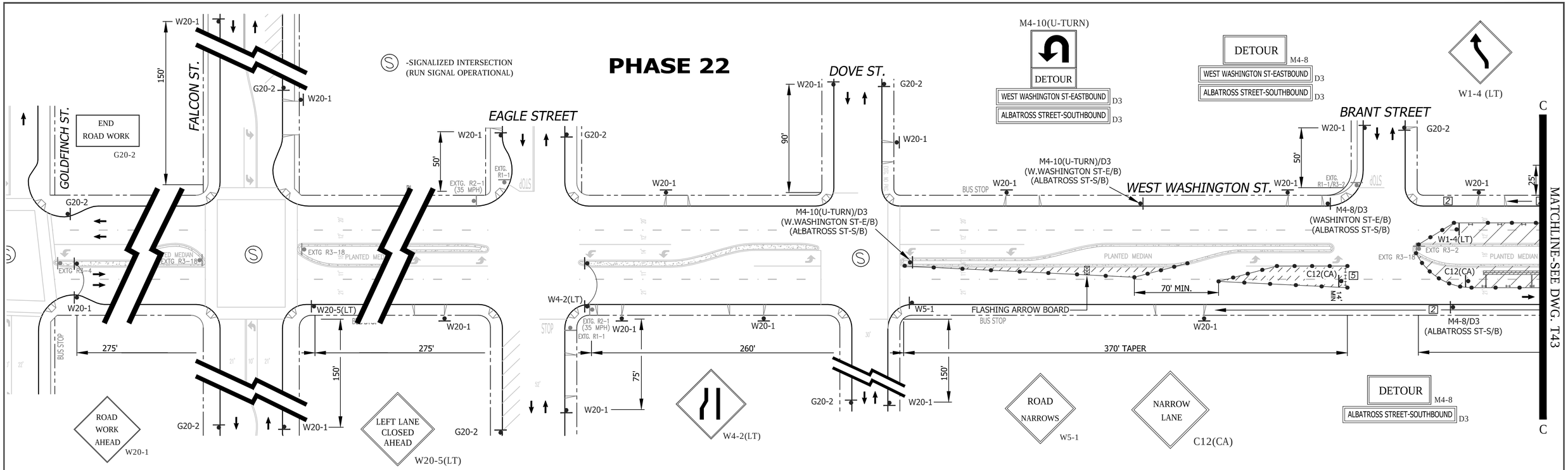
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T41-D



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 42

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
BRANT STREET TO FRONT STREET
PHASE 22

CITY OF SAN DIEGO, CALIFORNIA
SHEET 42 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T42-D

PHASE 22 (CONTINUED)

ALBATROSS STREET

FRONT STREET

FIRST STREET

THIRD AVENUE

FOURTH AVENUE

FIFTH AVENUE

WASHINGTON STREET

MATCHLINE-SEE DWG. T42

MATCHLINE-SEE BELOW LEFT

MATCHLINE-SEE ABOVE LEFT

620' WORK ZONE

100' SHIFT TAPER

125' TANGENT

110'

285' TAPER

215'

220'

350'

70' MIN.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 43

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
CONTINUATION SHEET FOR DWG. T42
PHASE 22

CITY OF SAN DIEGO, CALIFORNIA
SHEET 43 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

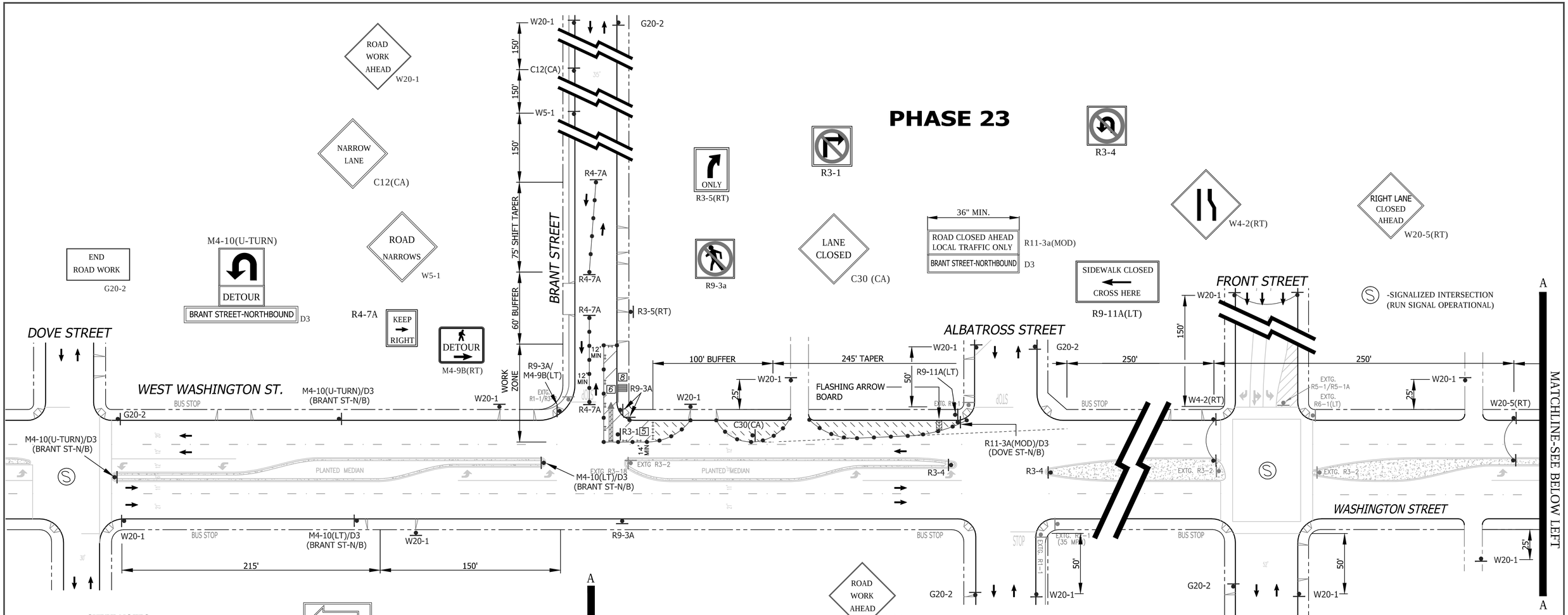
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T43-D

PHASE 23



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A (1) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

TC- 44

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT BRANT STREET
PHASE 23

CITY OF SAN DIEGO, CALIFORNIA
SHEET 39 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T44-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

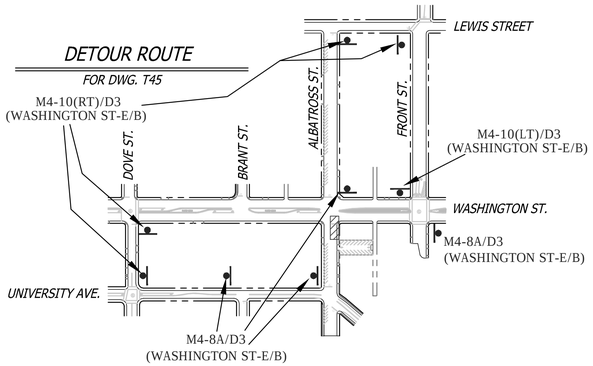
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

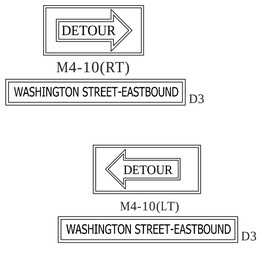
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

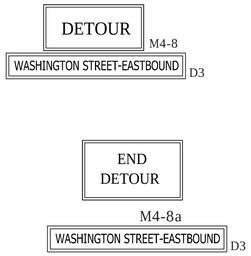
DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

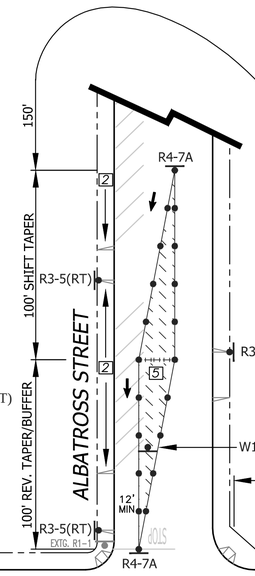
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

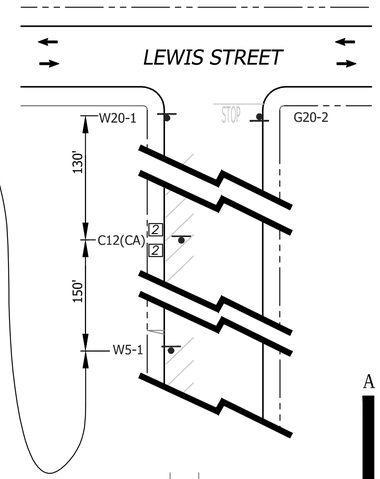
PHASE 24

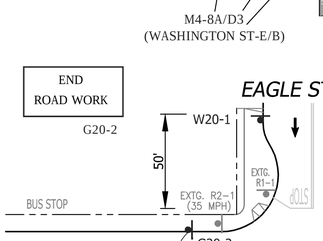


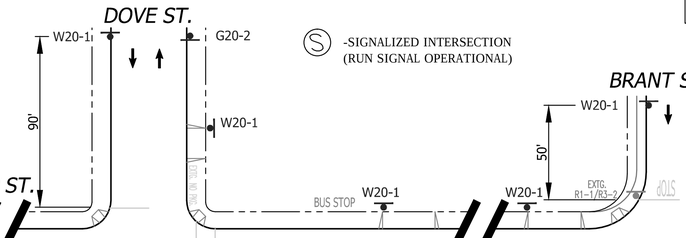


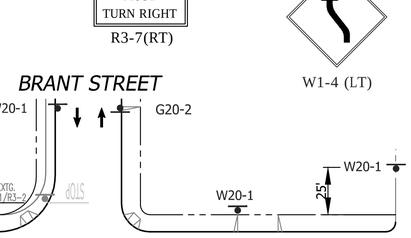


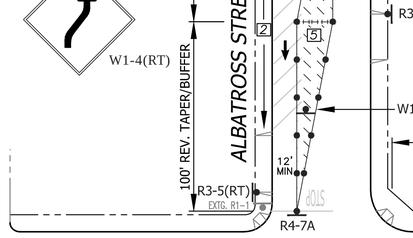


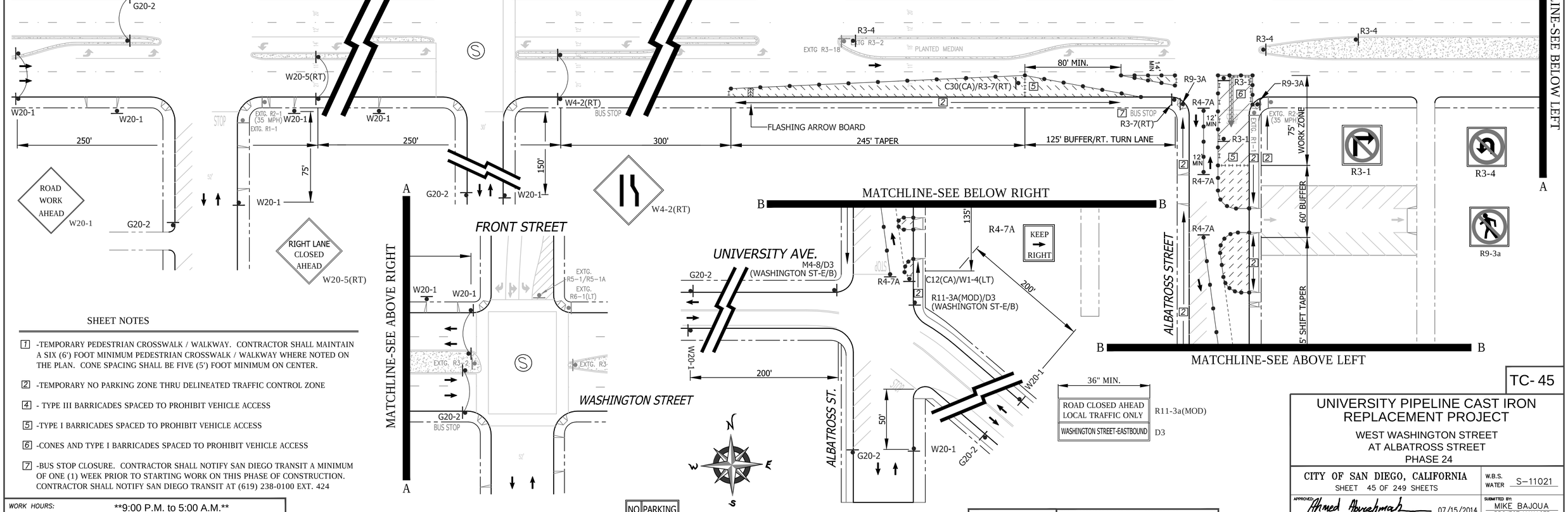












SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

36" MIN.
ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY — R11-3a(MOD)
WASHINGTON STREET-EASTBOUND — D3

TC- 45

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT ALBATROSS STREET
PHASE 24

CITY OF SAN DIEGO, CALIFORNIA
SHEET 45 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T45-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 25

DOVE ST.

EAGLE STREET

WEST WASHINGTON ST.

BRANT STREET

ALBATROSS STREET

FIRST STREET

FRONT STREET

WASHINGTON STREET

MATCHLINE-SEE DWG. TC-47

MATCHLINE-SEE BELOW LEFT

MATCHLINE-SEE ABOVE RIGHT

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

END ROAD WORK G20-2

W20-1 G20-2 W20-1 90' G20-2 W20-1

50' XTG. R2-1 (35 MPH) EXTG. R1-1 STOP G20-2

W20-1 BUS STOP W20-1 50' EXTG. R1-1/R3-2 STOP W20-1 G20-2

W20-1 25' W20-1 50' EXTG. R1-1 STOP W20-1 G20-2

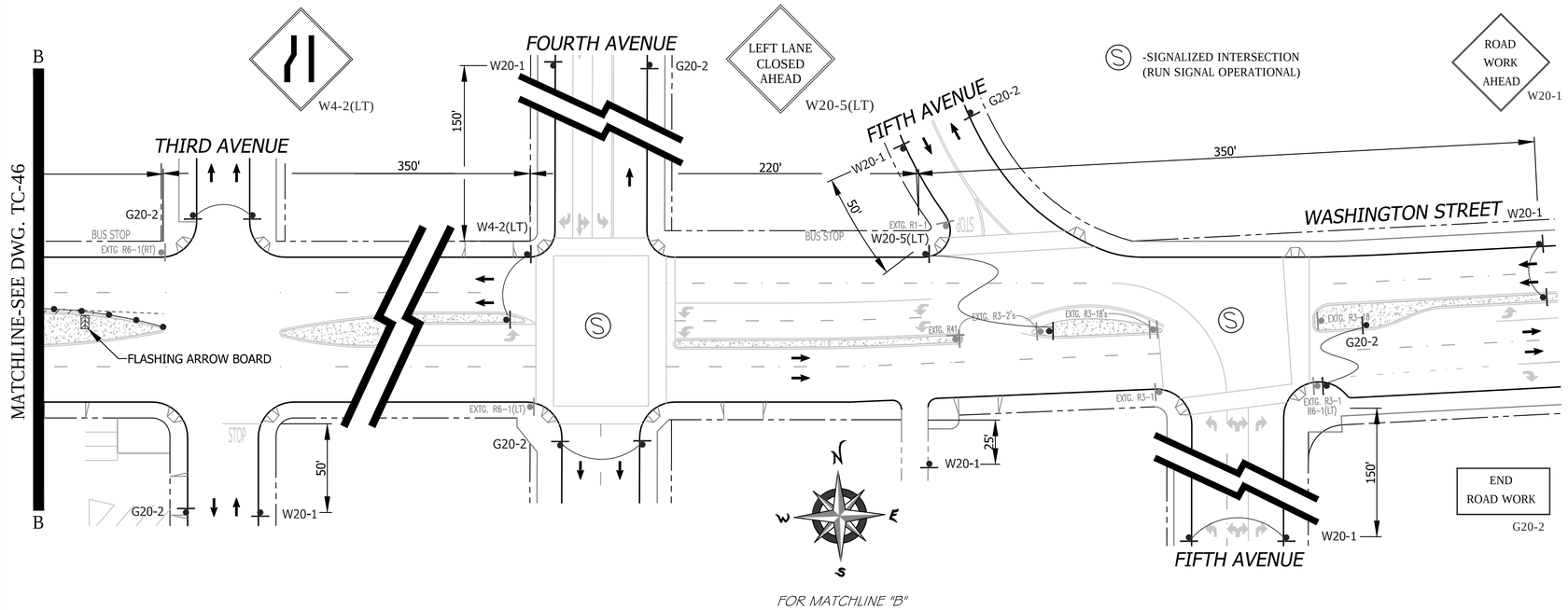
M4-10(U-TURN)/D3 (WASHINGTON ST-E/B) (FRONT ST-S/B)

W20-1 25' W20-1 BUS STOP

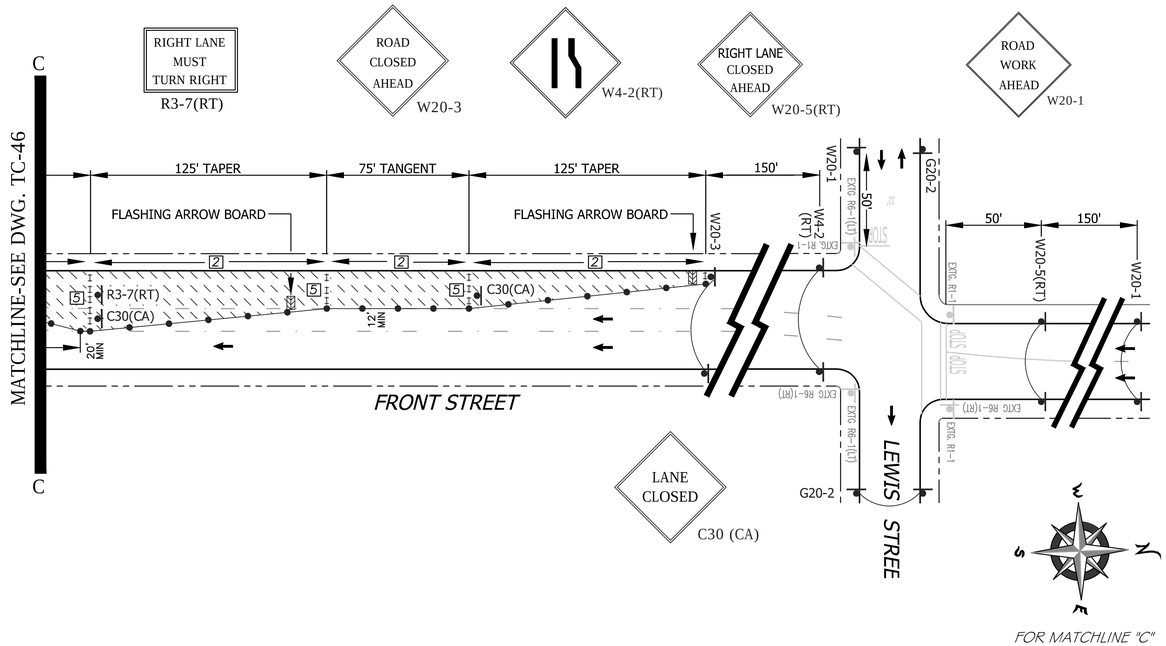
EXTG R3-2 EXTG R3-1 PLANTED MEDIAN C30(CA) 70' MIN. FLASHING ARROW BOARD W5-1 BUS STOP

C12(CA) 100' SHIFT TAPER 100' BUFFER 125' TANGENT 245' TAPER

W20-1 W20-1 W20-5(LT) W4-2(LT) W20-1 W20-1 W20-1



PHASE 25 (CONTINUED)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 47

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FRONT STREET - PHASE 25
CONTINUATION SHEET FOR DWG. TC-46

CITY OF SAN DIEGO, CALIFORNIA
SHEET 47 OF 249 SHEETS

W.B.S. WATER S-11021

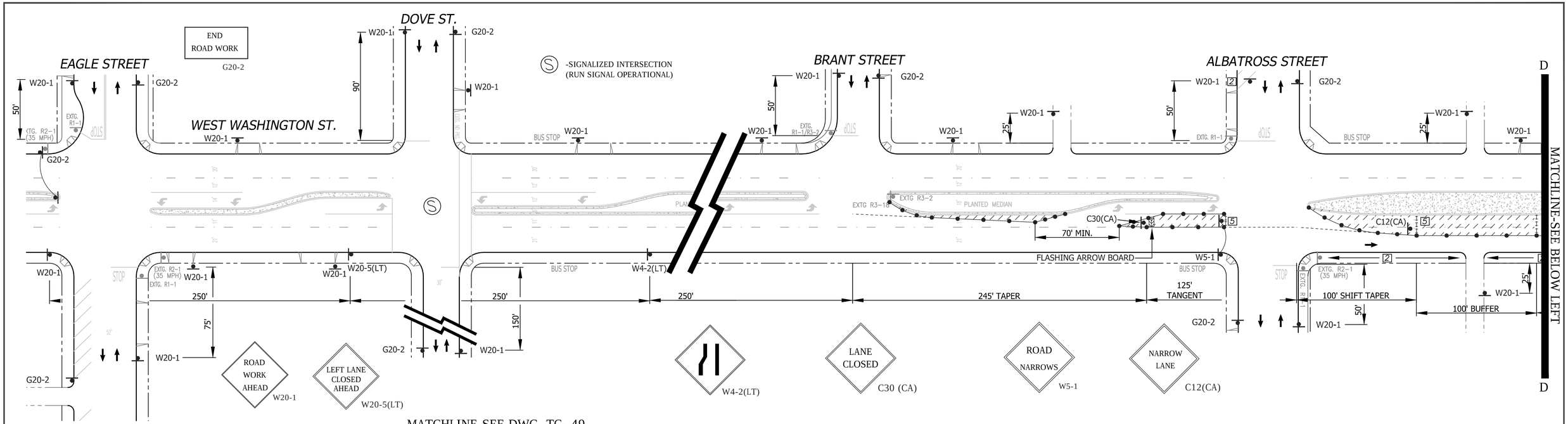
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

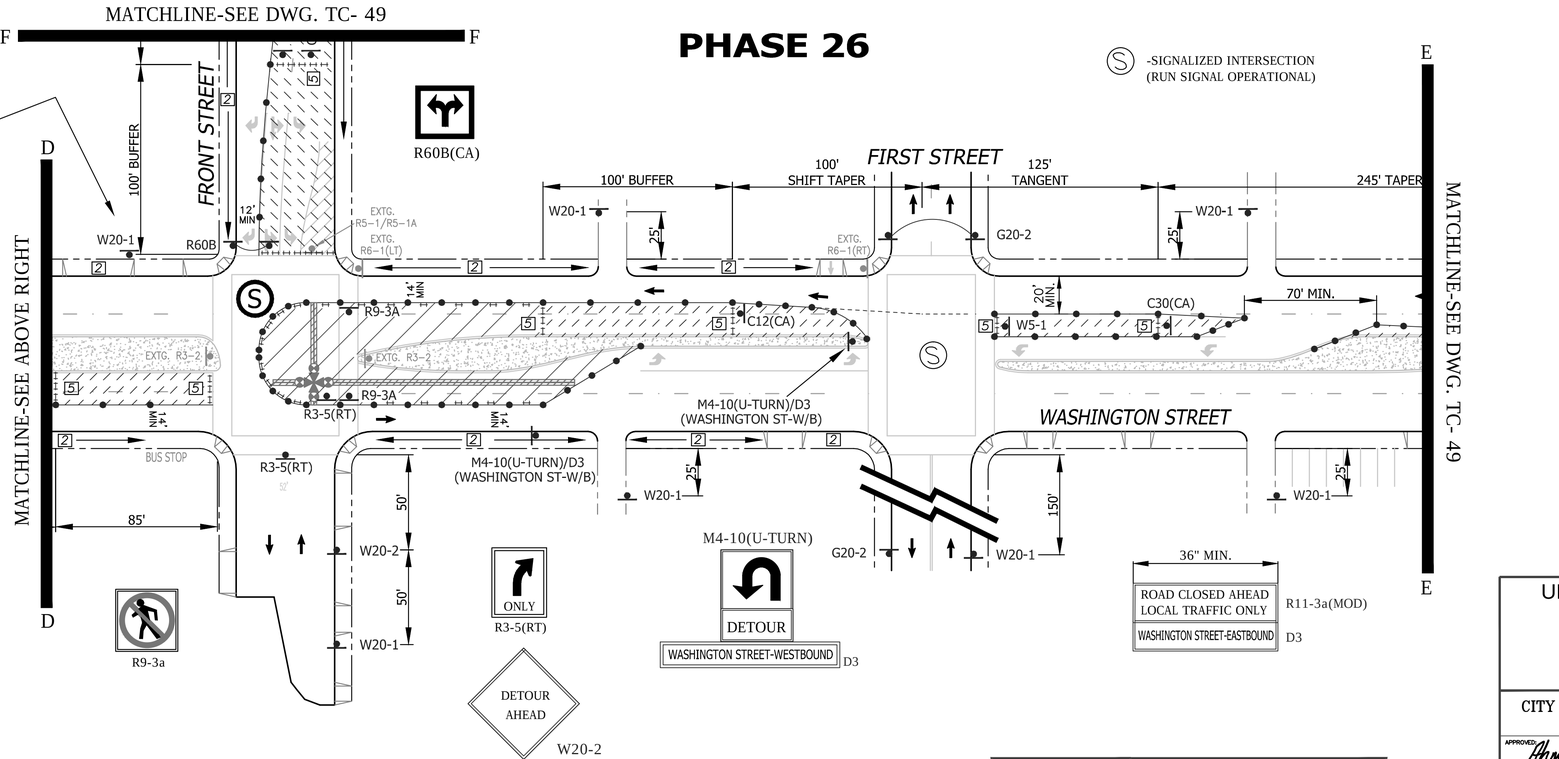
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T47-D





PHASE 26

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT
FRONT STREET	25	SEE DWG.	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 48

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FRONT STREET
PHASE 26

CITY OF SAN DIEGO, CALIFORNIA
SHEET 48 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

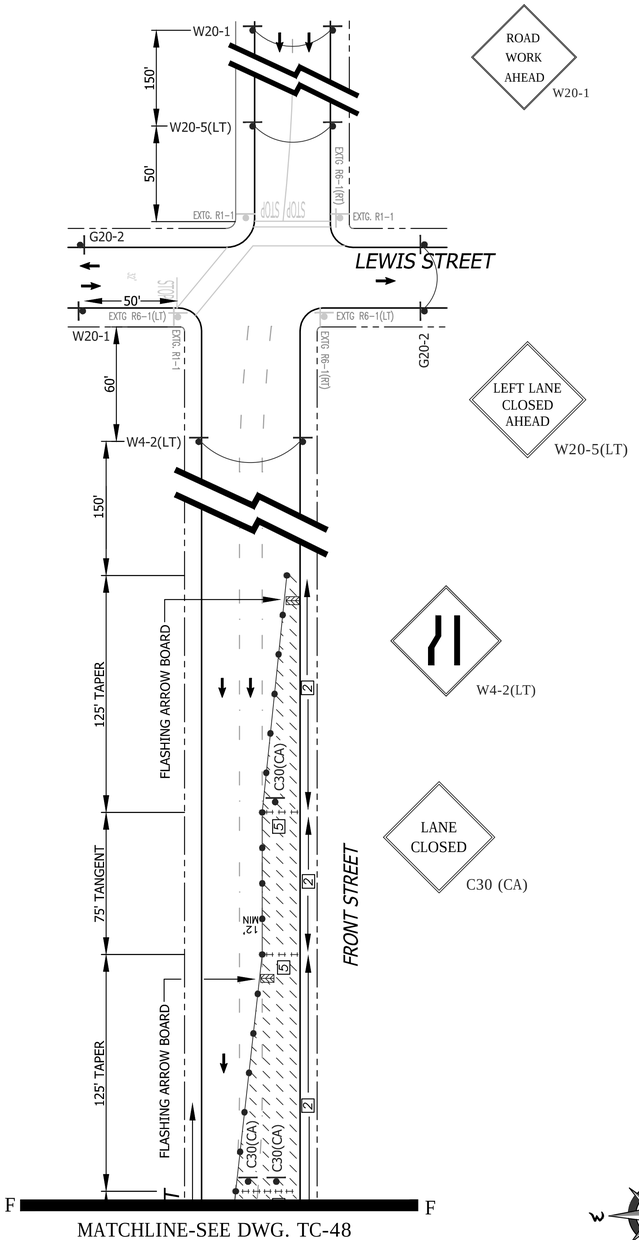
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

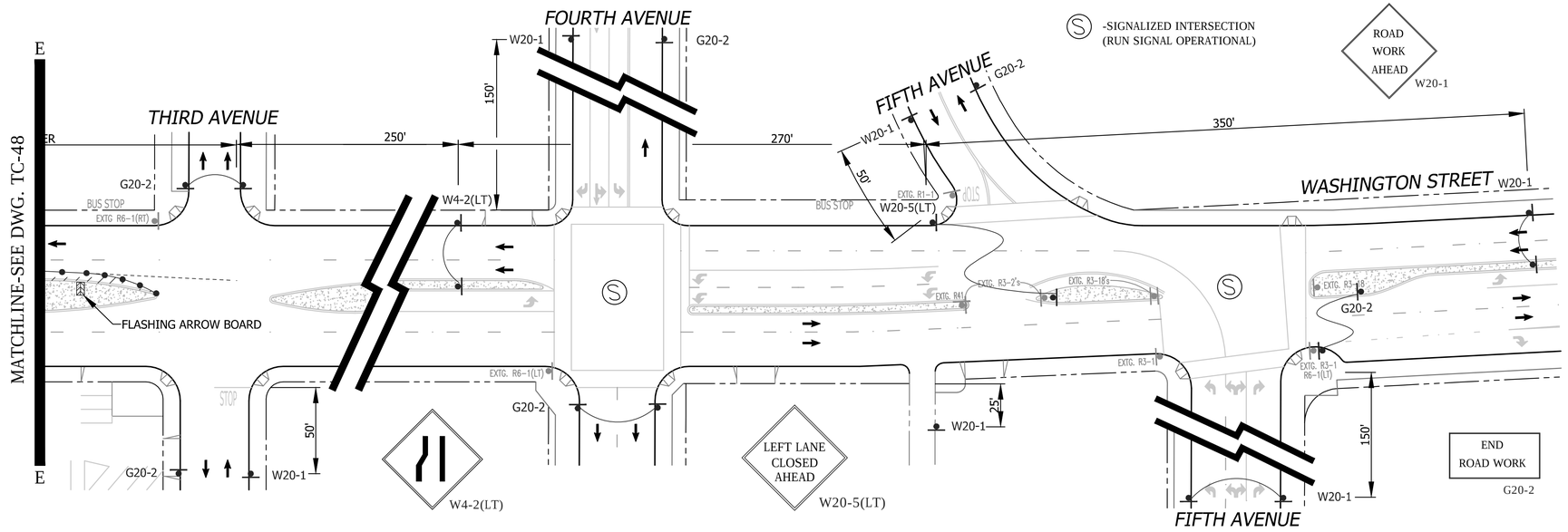
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T48-D





PHASE 26 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

R26 (MOD)

TC- 49

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FRONT STREET - PHASE 26
CONTINUATION SHEET FOR DWG. TC-48

CITY OF SAN DIEGO, CALIFORNIA
SHEET 49 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
185044-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T49-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 27

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

W20-1 · 150' · W20-5(RT) · 50' · EXTG R6-1(RT) · EXTG. R1-1 · STOP · G20-2 · LEWIS STREET · 50' · EXTG R6-1(LT) · W20-1 · W4-2 (RT) · EXTG R6-1(RT) · G20-2 · 150' · 125' TAPER · FLASHING ARROW BOARD · C30(CA) · A · A

MATCHLINE-SEE ABOVE RIGHT

DETOUR M4-8 WASHINGTON STREET - EASTBOUND D3

END DETOUR M4-8a WASHINGTON STREET - EASTBOUND D3

DETOUR ROUTE
FOR DWG. TC-50

WASHINGTON STREET · DOVE STREET · BRANT STREET · FRONT STREET · ALBATROSS STREET · M4-10(U-TURN)/D3 (WASHINGTON ST-E/B) · M4-8/D3 (WASHINGTON ST-E/B) · M4-8A/D3 (WASHINGTON ST-E/B) · WORK ZONE · M4-10(LT)/D3 (WASHINGTON ST-E/B)

M4-10(U-TURN) DETOUR

M4-10(LT) DETOUR WASHINGTON STREET - EASTBOUND D3

R3-4

R4-7A KEEP RIGHT

R61(MOD) ONLY

MATCHLINE-SEE BELOW LEFT

75' TANGENT · 125' TAPER · FLASHING ARROW BOARD · 150' BUFFER/RT. TURN LANE · FRONT STREET · C3 · 12' MIN · R3-7(RT) · C30(CA) · 20' MIN · 80' MIN. · R61(MOD)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

R3-4

ROAD WORK AHEAD W20-1

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

END ROAD WORK G20-2

M4-10(U-TURN)/D3 (WASHINGTON ST-E/B)

BRANT STREET · W20-1 · 50' · G20-2 · EXTG. R1-1/R2-2 · M4-8/D3 (WASHINGTON ST-E/B) · W20-1 · W20-5(RT) · W4-2(RT) · 250' · 250' · 250'

ALBATROSS STREET · W20-1 · 50' · G20-2 · EXTG. R1-1 · M4-8/D3 (WASHINGTON ST-E/B) · BUS STOP · 25' · W20-1 · R61(MOD) · 150' BUFFER/RT. TURN LANE · FRONT STREET · 12' MIN · 70' · 200' · EXTG. R5-1/R5-1A · EXTG. R6-1(LT) · FIRST STREET · WASHINGTON STREET · EXTG. R6-1(RT) · W20-1

MEDIAN · EXTG R3-18 · EXTG R3-2 · PLANTER · EXTG. R3-2 · R3-4 · R3-4 · R3-4 · R3-4 · EXTG. R3-2 · EXTG. R3-2 · FLASHING ARROW BOARD · C30(CA)/R3-7(RT) · 60' MIN. · 14' MIN · R3-5(LT) · STOP · EXTG. R2-1 (35 MPH) · EXTG. R1-1 · 50' · 245' TAPER · 25' · W20-1 · 100' BUFFER · R4-7A · 12' MIN · R3-5(LT) · R9-3A · 54' · WORK ZONE · 53' · W1-4(LT) · 14' MIN · W20-1 · ONLY R3-5(LT) · G20-2

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

R9-3a

W1-4 (LT)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER · BILL E. DARNELL · No. 22338 · Exp. 9-30-15 · CIVIL · STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 50

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FRONT STREET
PHASE 27

CITY OF SAN DIEGO, CALIFORNIA
SHEET 50 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

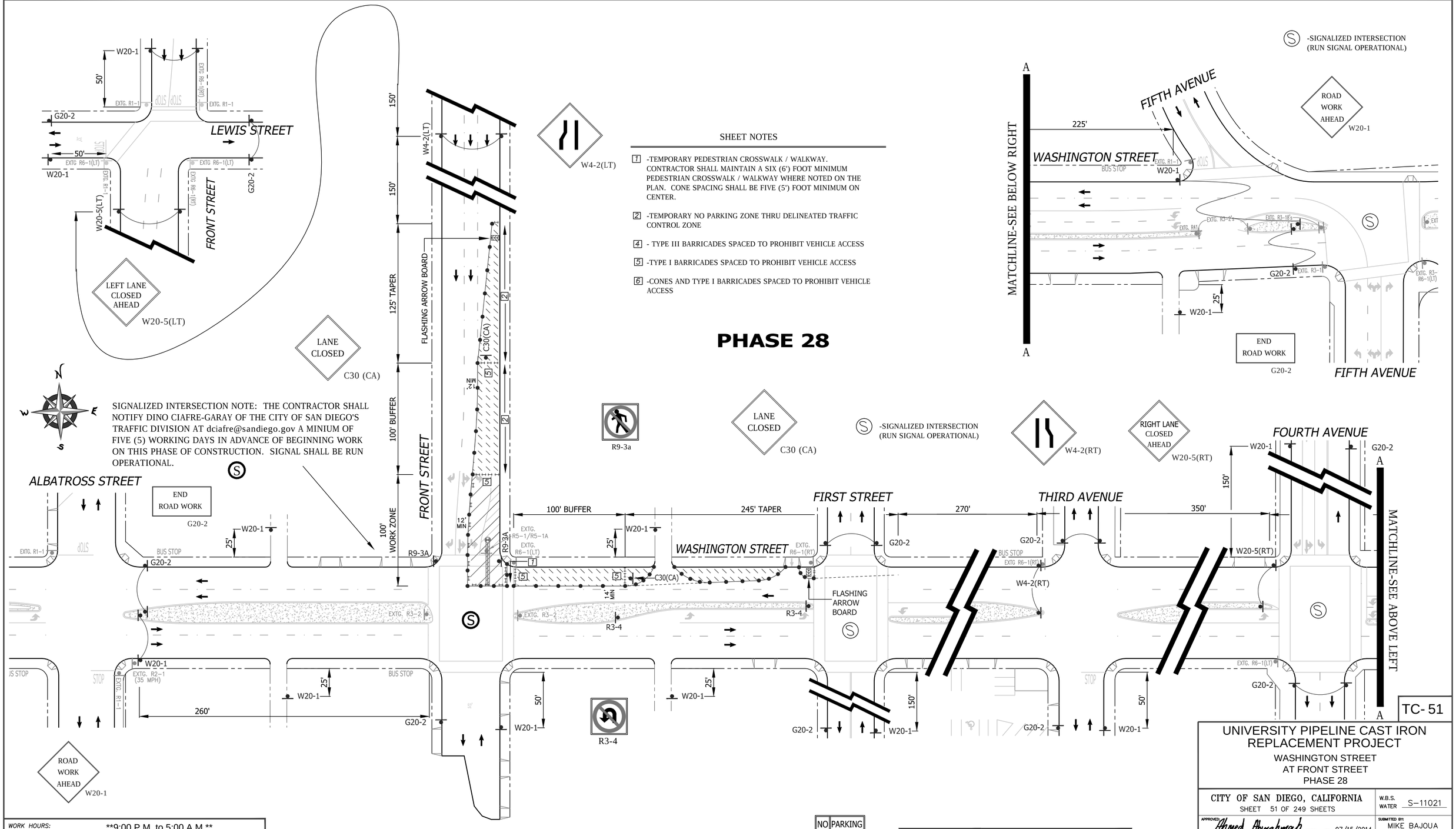
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T50-D



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FRONT STREET
PHASE 28

CITY OF SAN DIEGO, CALIFORNIA
SHEET 51 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-51

36656-T51-D

PHASE 29

DOVE ST.
EAGLE STREET
WEST WASHINGTON ST.
BRANT STREET
ALBATROSS STREET
MATCHLINE-SEE BELOW LEFT
MATCHLINE-SEE DWG. TC-53
FRONT STREET
FIRST AVENUE
THIRD AVENUE
FOURTH AVENUE
WASHINGTON STREET
MATCHLINE-SEE ABOVE RIGHT
MATCHLINE-SEE DWG. TC-53

END ROAD WORK
G20-2

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ROAD WORK AHEAD
W20-1

LEFT LANE CLOSED AHEAD
W20-5(LT)

W4-2(LT)

ROAD NARROWS
W5-1

LANE CLOSED
C30 (CA)

ROAD NARROWS
W5-1

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

M4-10(U-TURN)
DETOUR
FIRST AVENUE - SOUTHBOUND D3

ROAD NARROWS
W5-1

36" MIN.
ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
FIRST AVENUE - SOUTHBOUND
R11-3a(MOD) D3

LEFT LANE MUST TURN RIGHT
R3-7(LT)

NARROW LANE
C12(CA)

36" MIN.
ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
FIRST AVENUE - NORTHBOUND
R11-3a(MOD) D3

R9-3a

M4-10(U-TURN)
DETOUR
FIRST AVENUE - NORTHBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT	
FRONT STREET	25	SEE DWG.	SEE DWG.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 52

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIRST AVENUE
PHASE 29

CITY OF SAN DIEGO, CALIFORNIA
SHEET 52 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

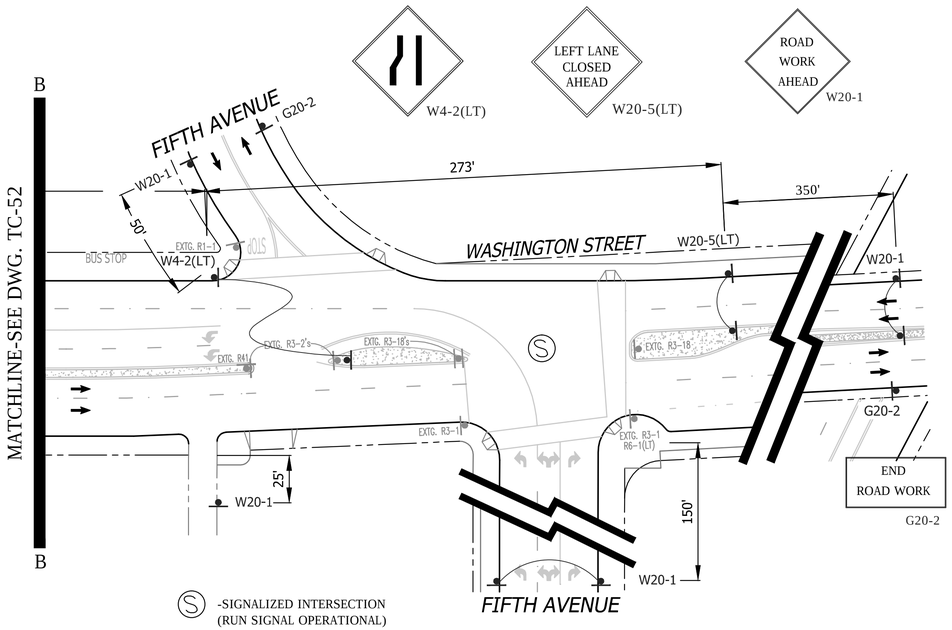
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T52-D



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

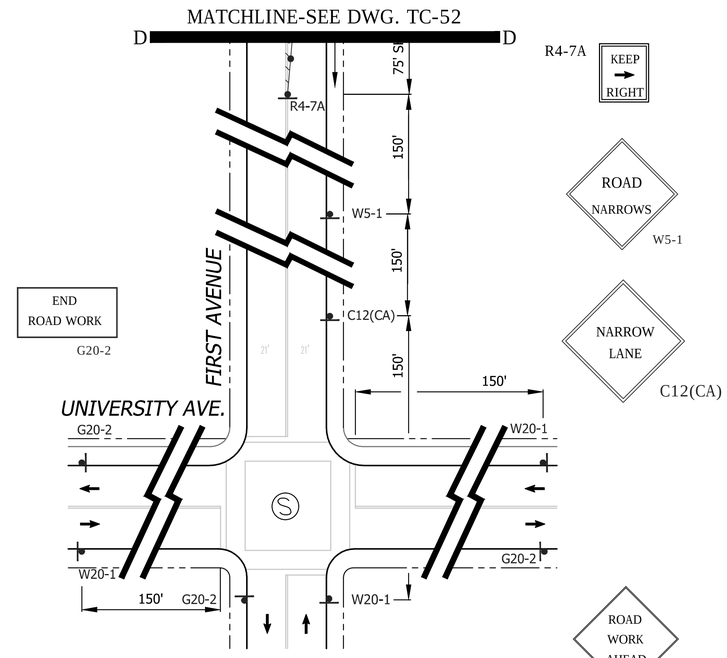
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

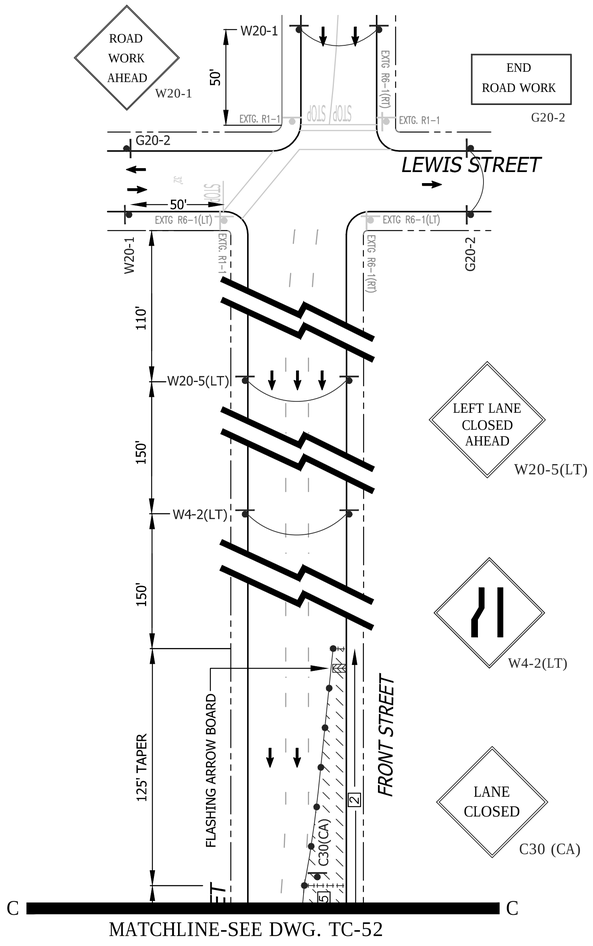
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
FIRST AVENUE	25	SEE DWG.		150 FT.	25 FT

PHASE 29 (CONTINUED)





SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

R26 (MOD)

TC- 53

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE - PHASE 29
CONTINUATION SHEET FOR DWG. TC-52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 53 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah — FOR CITY ENGINEER — 07/15/2014 DATE
AHMED ABURAHMAH — PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T53-D

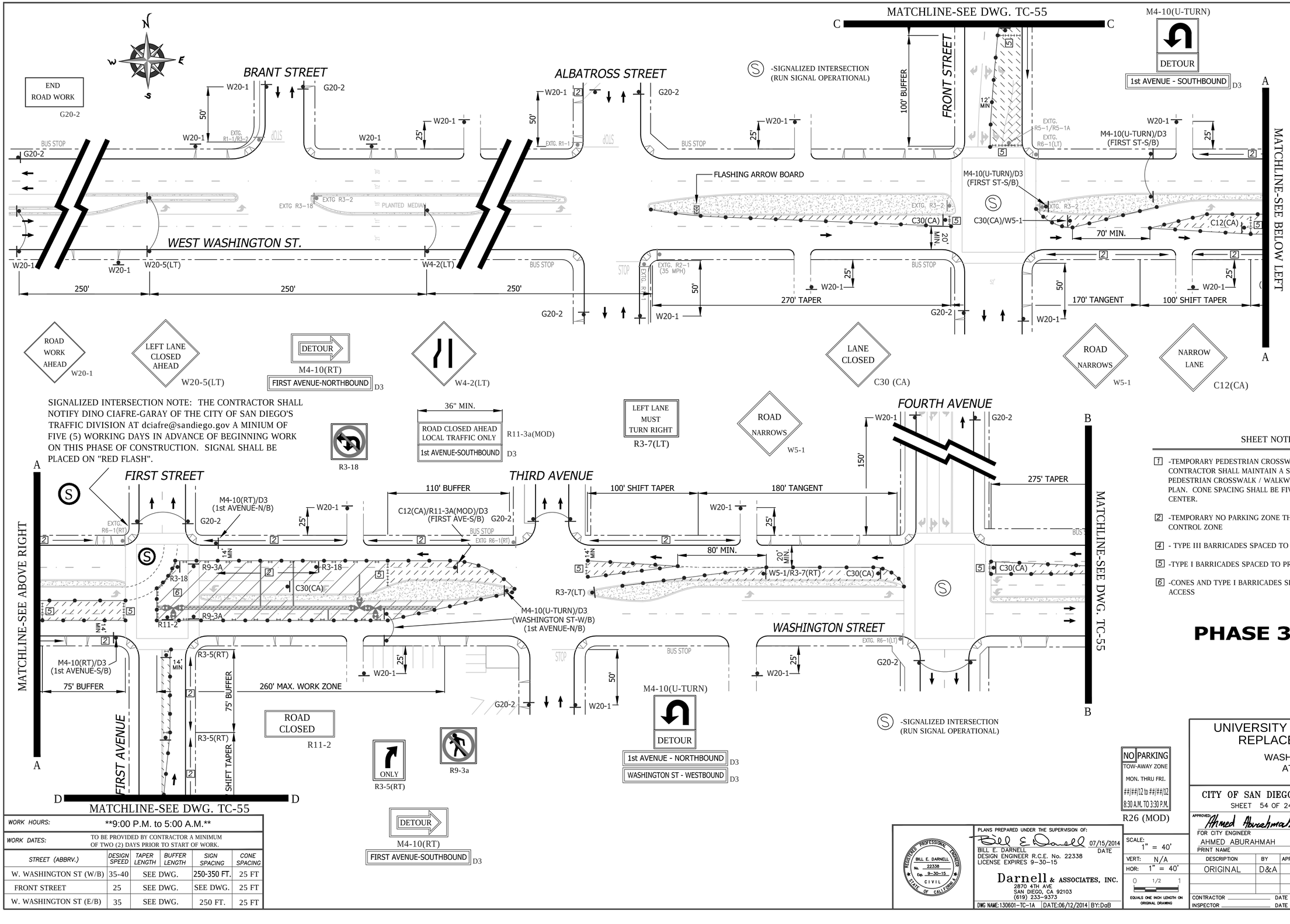
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 30

TC- 54

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE
PHASE 30

CITY OF SAN DIEGO, CALIFORNIA
SHEET 54 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T54-D

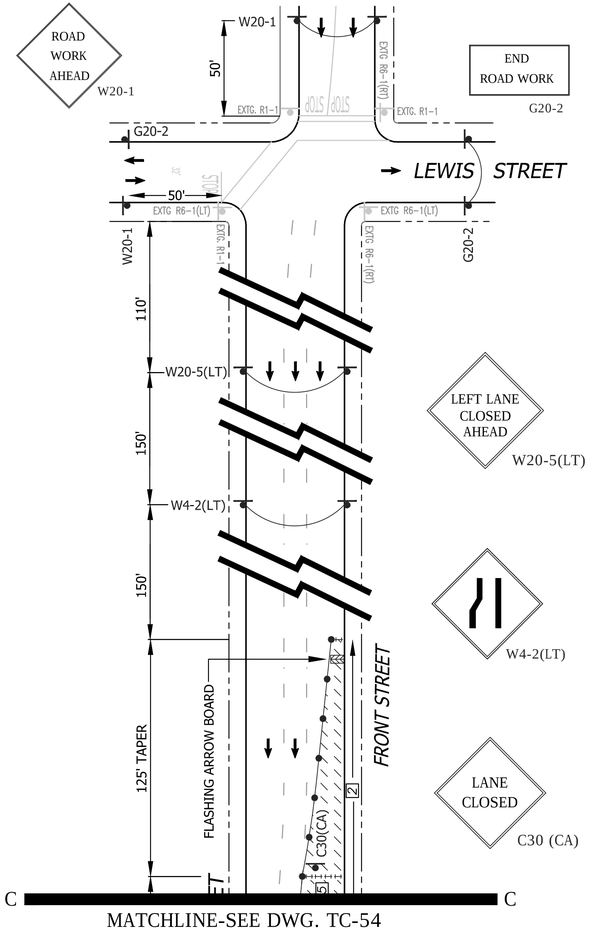
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

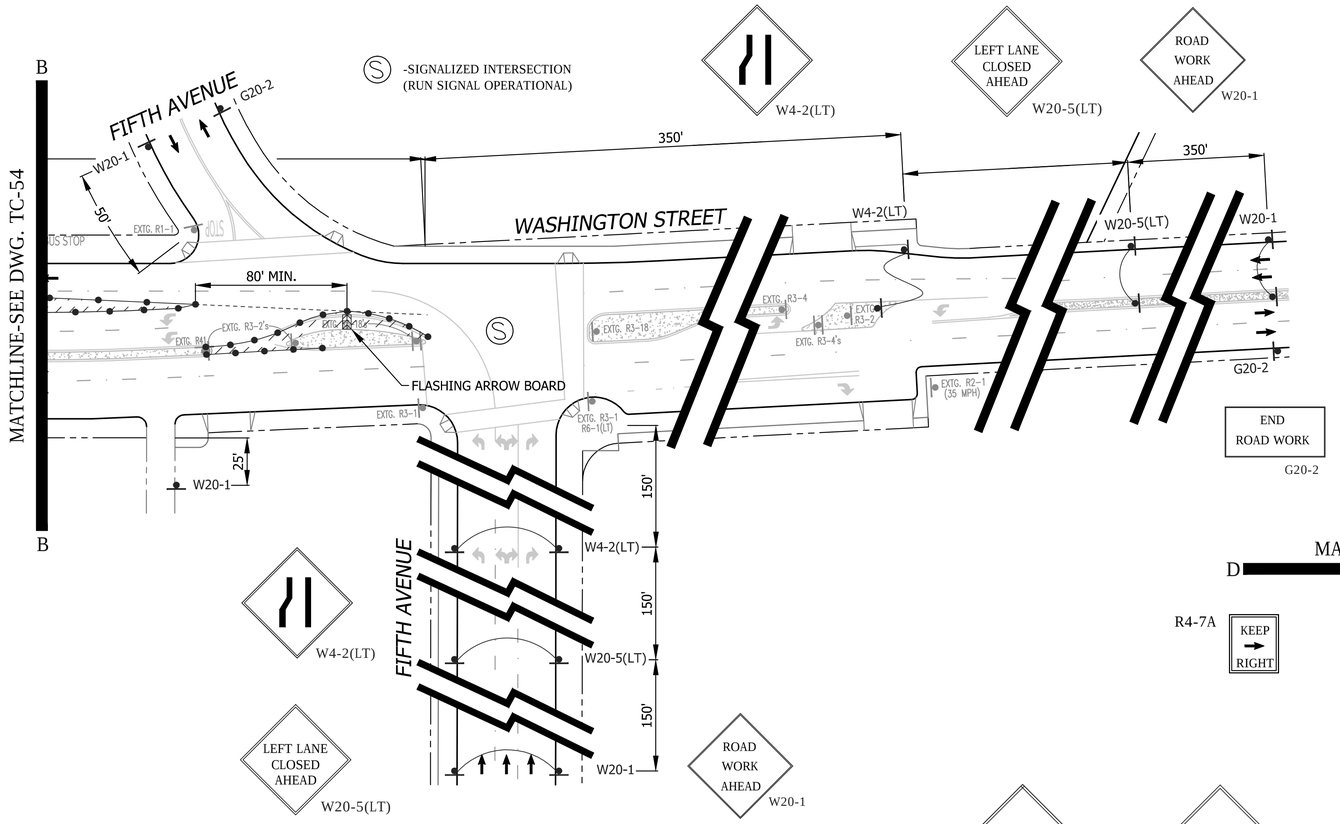
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

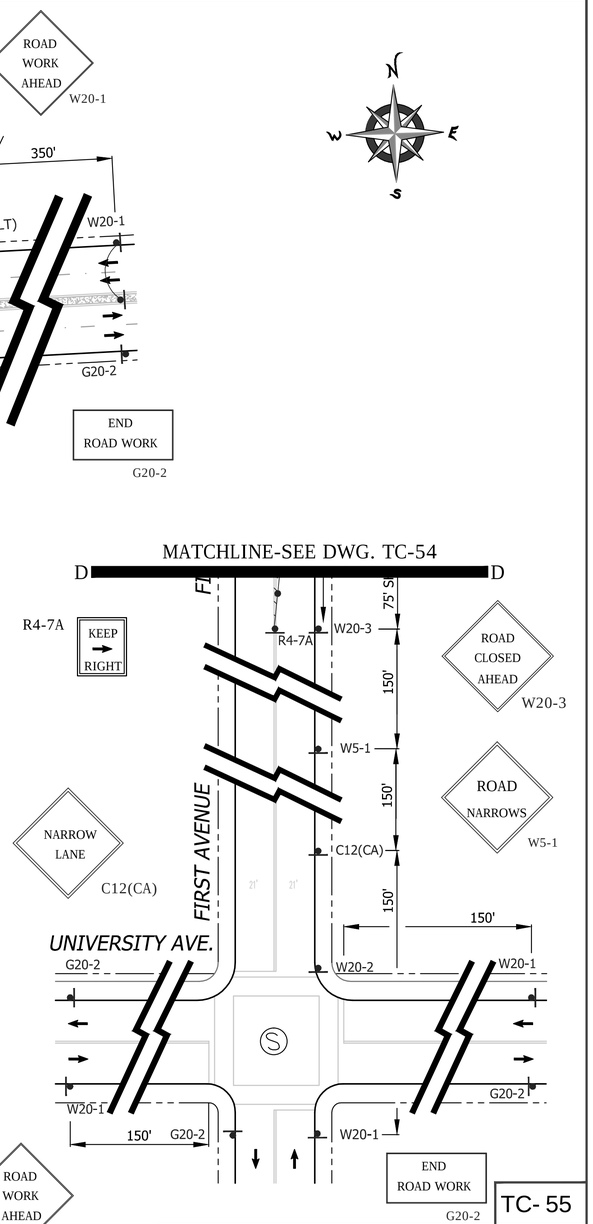
DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING





PHASE 30 (CONTINUED)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
FIRST AVENUE	25	SEE DWG.		150 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 55

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE - PHASE 30
CONTINUATION SHEET FOR DWG. TC-54

CITY OF SAN DIEGO, CALIFORNIA
SHEET 55 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

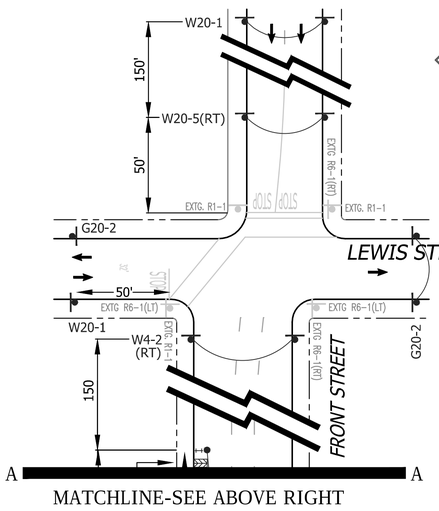
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T55-D

PHASE 31



MATCHLINE-SEE ABOVE RIGHT

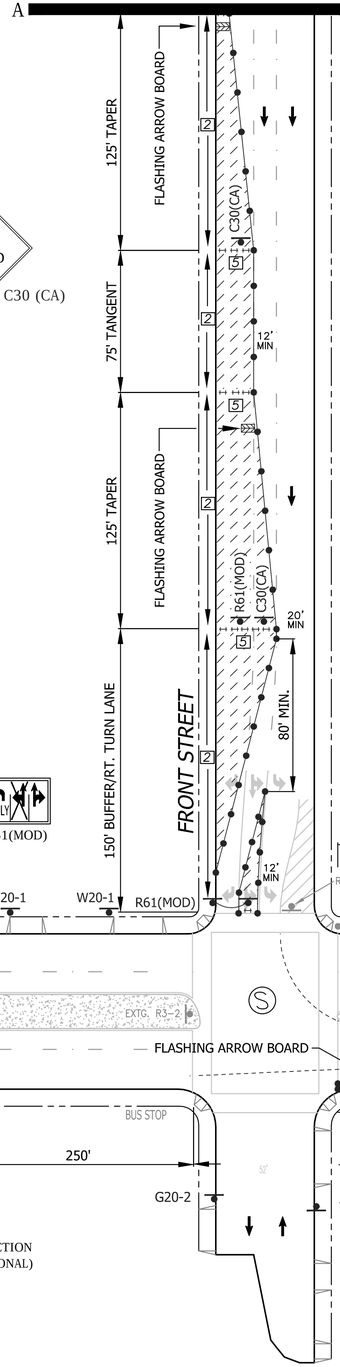
ROAD WORK AHEAD W20-1

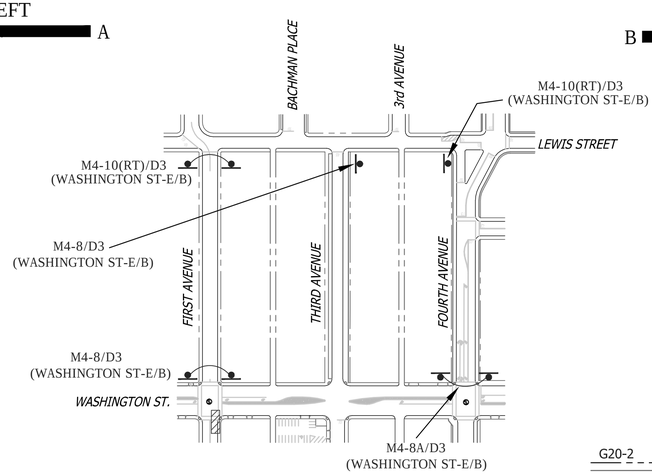
RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

MATCHLINE-SEE BELOW LEFT





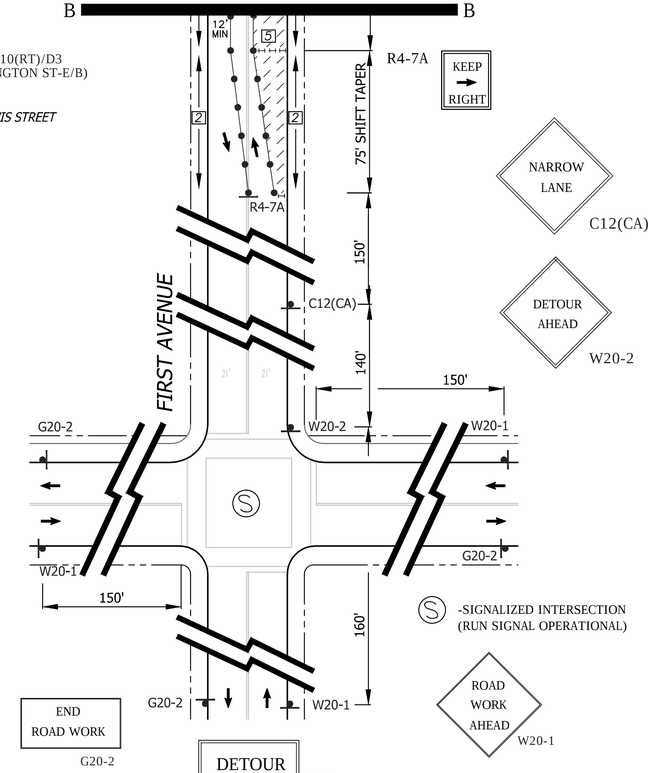
DETOUR ROUTE

FOR DWG. TC-56

LANE CLOSED C30 (CA)

Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

MATCHLINE-SEE BELOW LEFT



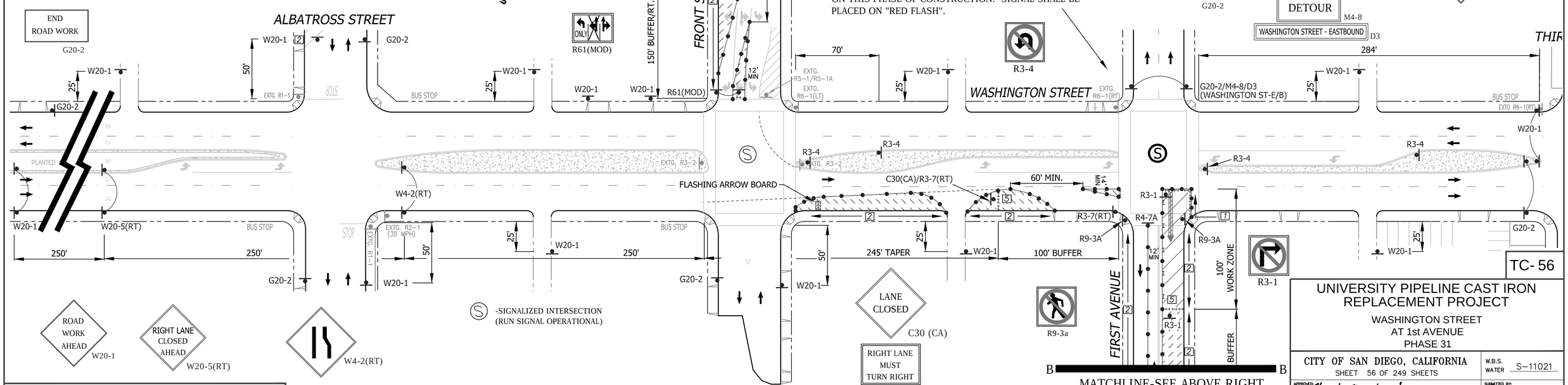
Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2

DETOUR M4-8

WASHINGTON STREET - EASTBOUND D3



ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

LANE CLOSED C30 (CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

R9-3a

FIRST AVENUE

BUFFER

B

B

MATCHLINE-SEE ABOVE RIGHT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
1st AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE
PHASE 31

CITY OF SAN DIEGO, CALIFORNIA
SHEET 56 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T56-D

MATCHLINE-SEE DWG. TC-58

C C

BRANT STREET

ALBATROSS STREET

FRONT STREET

100' BUFFER

-SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

M4-10(U-TURN)
DETOUR
1st AVENUE - SOUTHBOUND D3

A A

MATCHLINE-SEE BELOW LEFT

W20-1 G20-2 50' 25' BUS STOP EXTG. R1-1/R3-2 EXTG. R1-1 STOP

EXTG. R5-1/R5-1A EXTG. R6-1(LT) 12' MIN

M4-10(U-TURN)/D3
(FIRST ST-S/B)

FLASHING ARROW BOARD

EXTG R3-18 EXTG R3-2 PLANTED MEDIAN

EXTG. R3-2 C30(CA) 20' MIN.

M4-10(U-TURN)/D3
(FIRST ST-S/B)

C30(CA)/W5-1

C12(CA) 70' MIN.

WEST WASHINGTON ST.

W20-1 W20-5(LT) W4-2(LT) 250' 250' 250'

EXTG. R2-1 (35 MPH) EXTG. R6-1

270' TAPER

170' TANGENT 100' SHIFT TAPER

ROAD NARROWS W5-1

NARROW LANE C12(CA)

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

M4-10(U-TURN)
DETOUR
3rd AVENUE - SOUTHBOUND D3

PHASE 32

DETOUR
M4-10(RT)
THIRD AVENUE - NORTHBOUND D3

LANE CLOSED C30 (CA)

FOURTH AVENUE

36" MIN.
ROAD CLOSED AHEAD
LOCAL TRAFFIC ONLY
3rd AVENUE-SOUTHBOUND D3
R11-3a(MOD) 150'

LANE CLOSED C30 (CA) 275' TAPER

B

MATCHLINE-SEE DWG. TC-58

FIRST AVENUE

THIRD AVENUE

WASHINGTON STREET

DETOUR
M4-9B(RT)

M4-9B(LT)

M4-10(RT)/D3
(3rd AVE-N/B)

R11-3A(MOD)/D3
(3rd AVENUE-N/B)

EXTG. R6-1(RT) BUS STOP EXTG R6-1(RT)

M4-10(U-TURN)/D3
(3rd AVENUE-S/B)

R9-3A R3-18 R3-5(RT) 14' MIN

C12(CA) C30(CA)

M4-10(U-TURN)/D3
(WASHINGTON ST-W/B)
(3rd AVENUE-N/B)

EXTG. R6-1(LT)

M4-10(U-TURN)/D3
(3rd AVE-S/B)

525' WORK ZONE

12' MIN

M4-9B(RT) M4-10(RT) 75' SHIFT TAPER

110' MIN.

R4-7A KEEP RIGHT

R4-7A/R3-5(RT)

ONLY R3-5(RT)

DETOUR
M4-10(RT)

M4-10(U-TURN)
DETOUR
3rd AVENUE - NORTHBOUND D3
WASHINGTON ST - WESTBOUND D3

-SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

ROAD NARROWS W5-1

ROAD WORK AHEAD W20-1

NARROW LANE C12(CA)

MATCHLINE-SEE ABOVE RIGHT

75' BUFFER 150' G20-2 W20-1

36" MIN.
ROAD CLOSED AHEAD
LOCAL TRAFFIC ONLY
3rd AVENUE-NORTHBOUND D3
R11-3a(MOD)

R3-18 M4-9B(LT) R9-3a

DETOUR
M4-10(RT)
THIRD AVENUE - SOUTHBOUND D3

W5-1 C12(CA) 150' 150' 150'

LANE CLOSED C30 (CA)

NARROW LANE C12(CA)

N W E S

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

-SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
3rd AVENUE	25	SEE DWG.	SEE DWG.		25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 57

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
1st AVENUE TO 4th AVENUE
PHASE 32

CITY OF SAN DIEGO, CALIFORNIA
SHEET 57 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

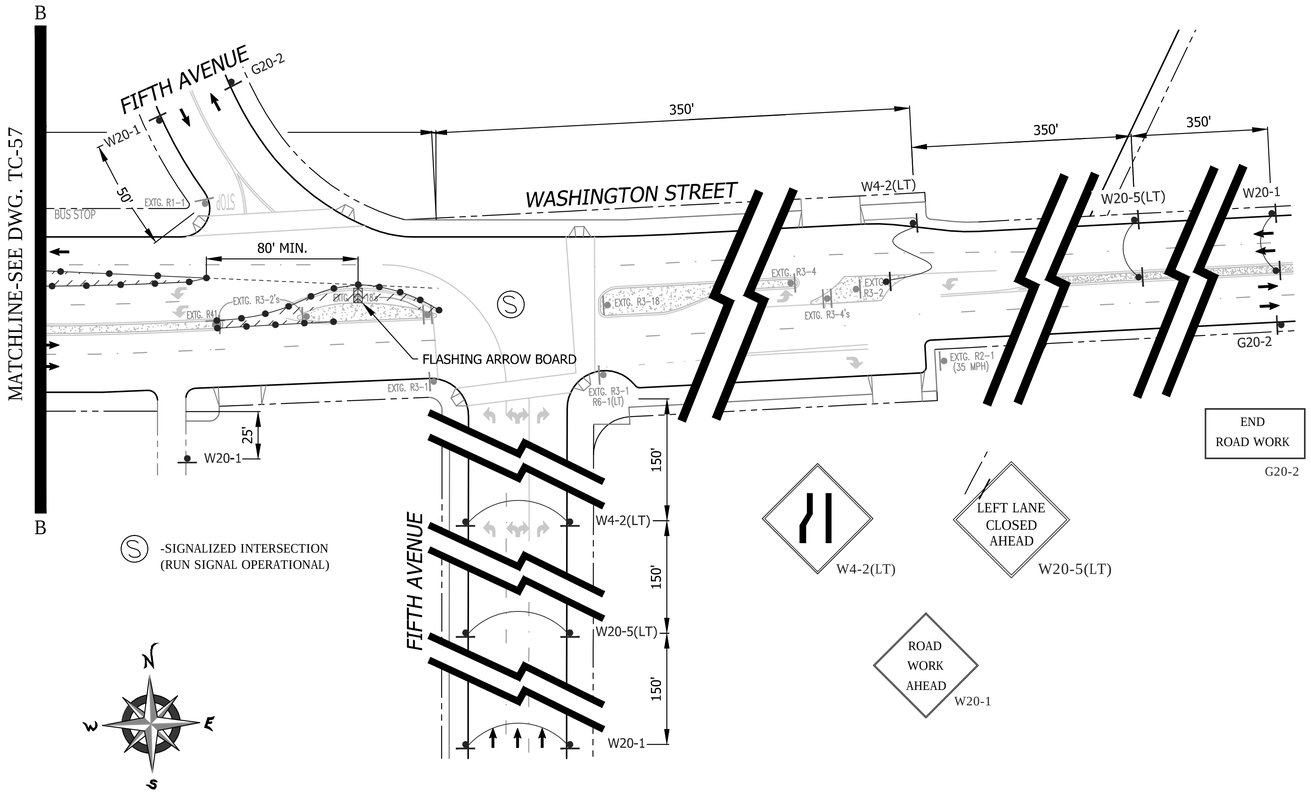
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

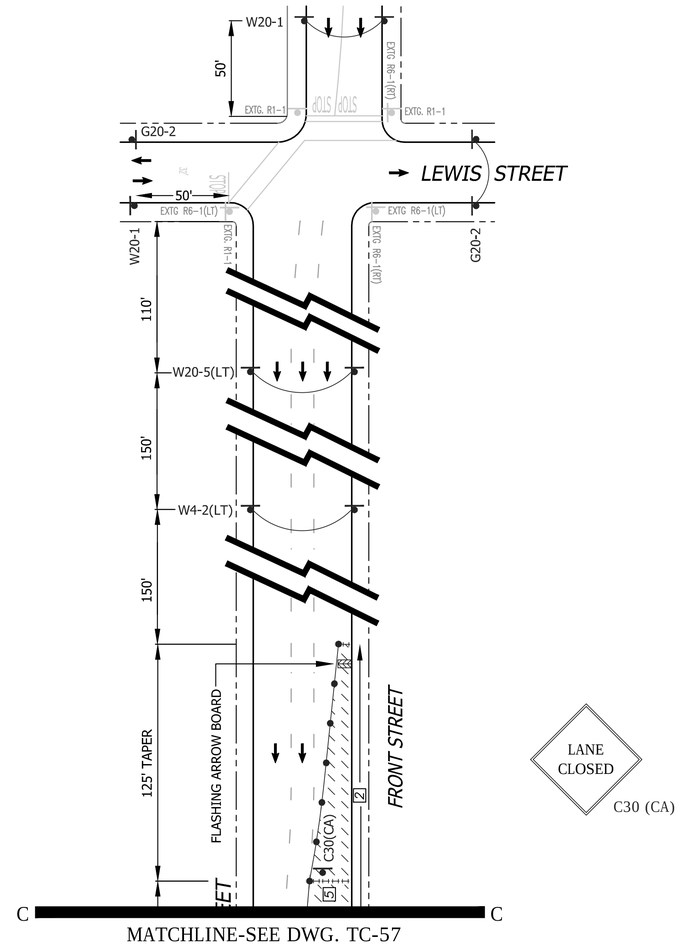
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T57-D





PHASE 32 (CONTINUED)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
3rd AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 58

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
1st AVENUE TO 4th AVENUE
PHASE 32

CITY OF SAN DIEGO, CALIFORNIA
SHEET 58 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

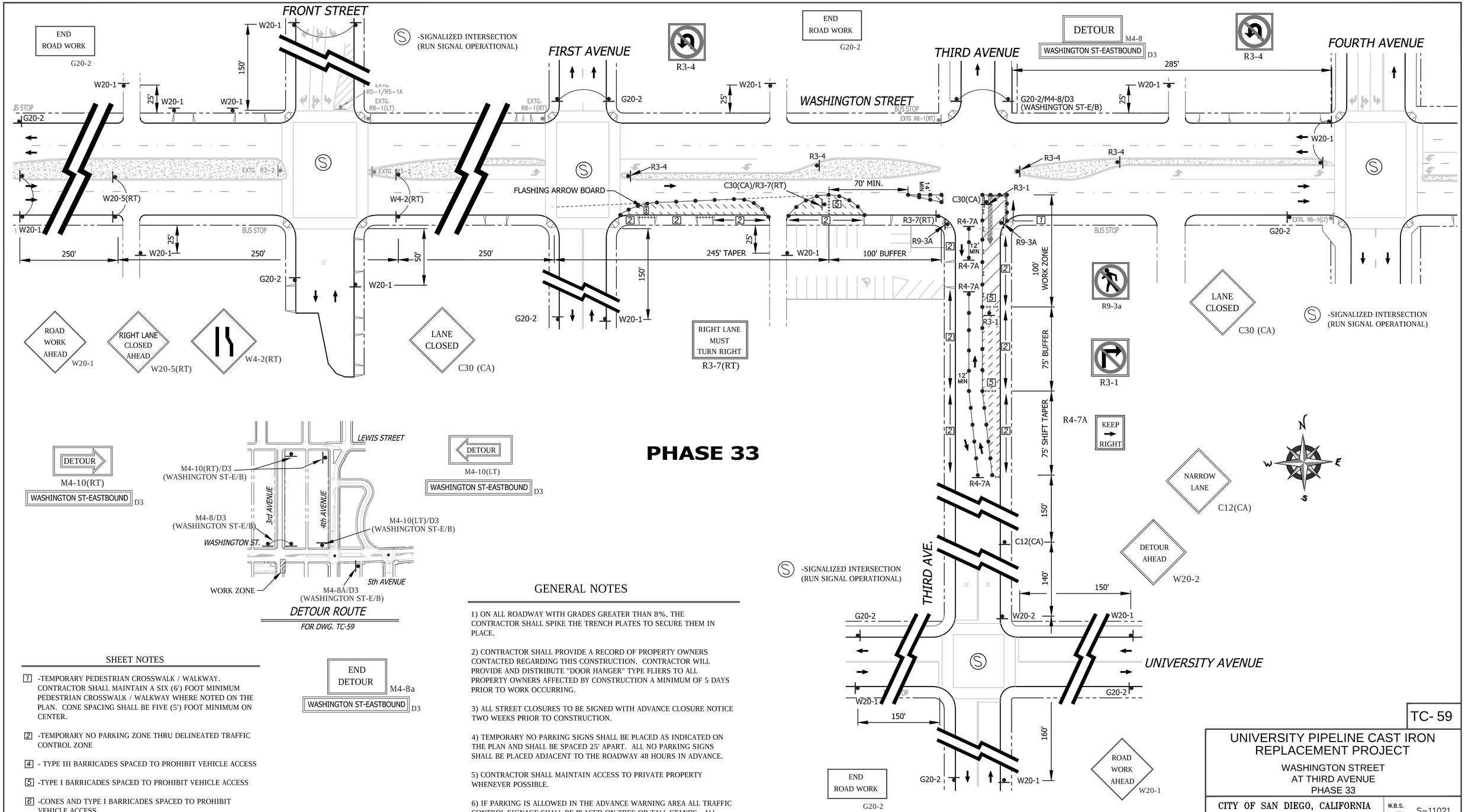
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T58-D



PHASE 33

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

END DETOUR M4-8a
WASHINGTON ST-EASTBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373
DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 59

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT THIRD AVENUE
PHASE 33

CITY OF SAN DIEGO, CALIFORNIA
SHEET 59 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

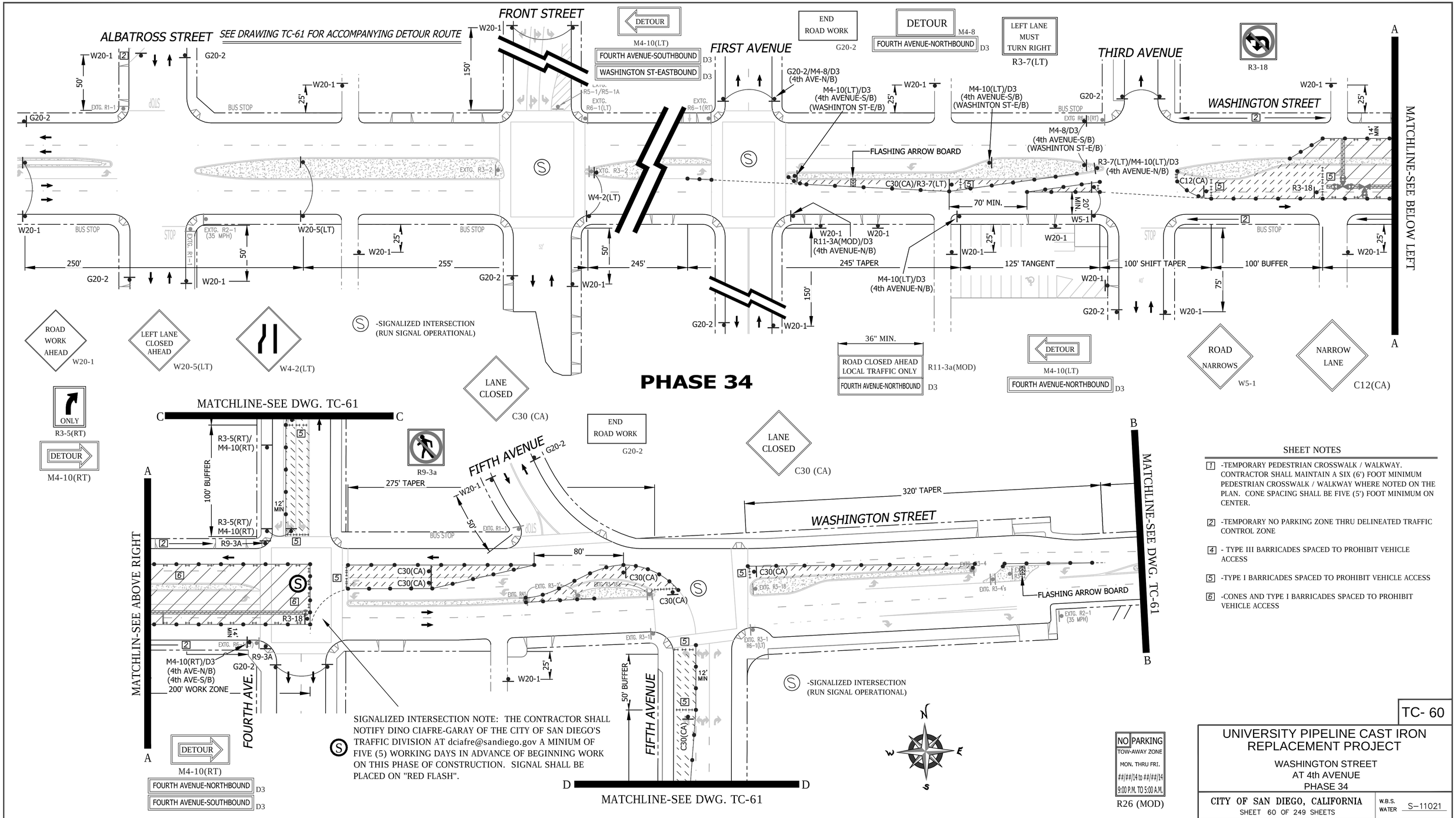
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T59-D



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 60

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 4th AVENUE
PHASE 34

CITY OF SAN DIEGO, CALIFORNIA
SHEET 60 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

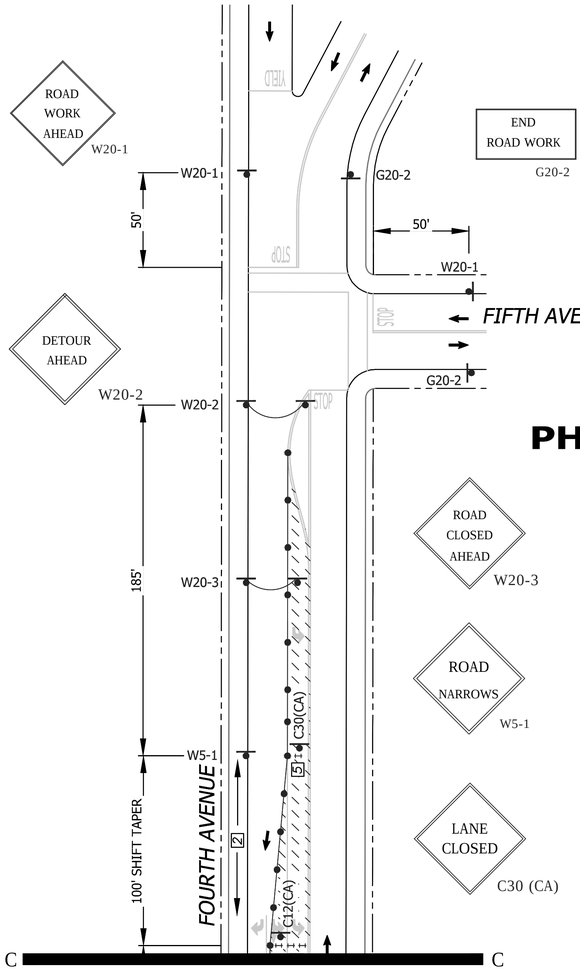
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

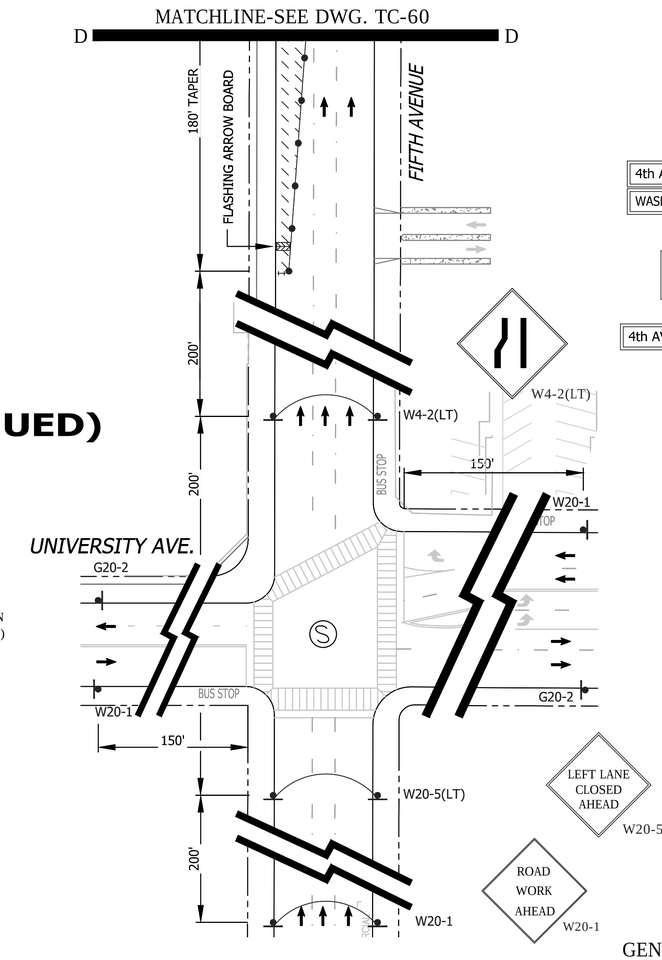
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

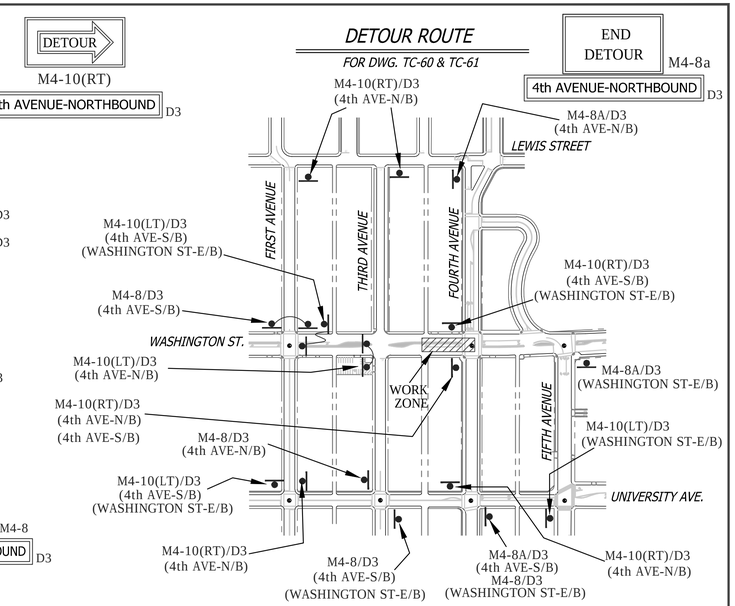
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T60-D

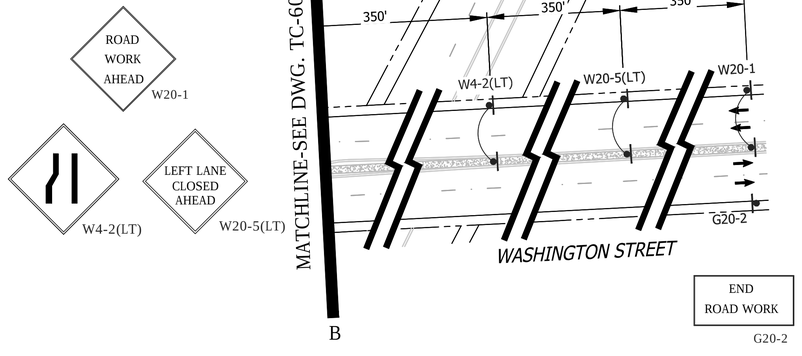
PHASE 34 (CONTINUED)







-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 61

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 4th AVENUE - PHASE 34
(CONTINUATION SHEET FOR DWG. T60)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 61 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

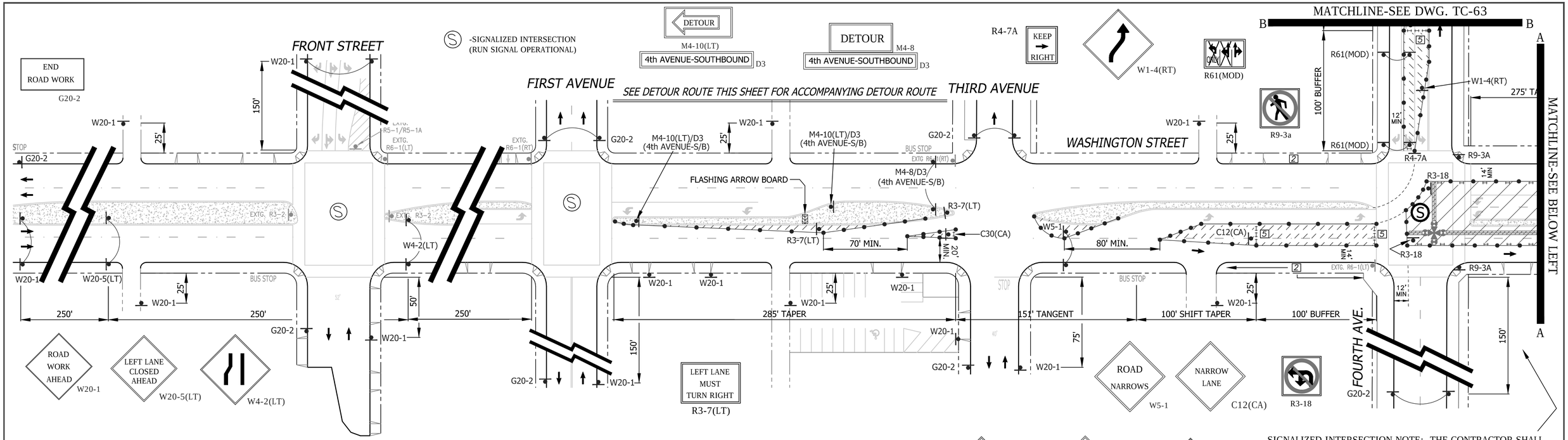
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T61-D



PHASE 35

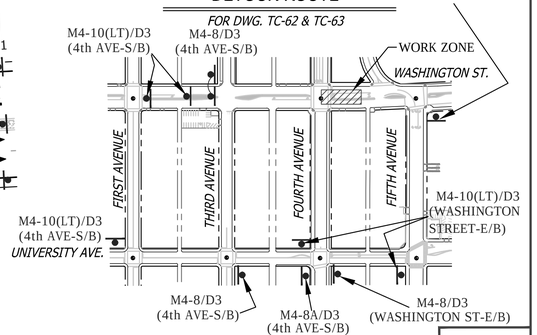
S -SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

DETOUR ROUTE
FOR DWG. TC-62 & TC-63



TC- 62

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE
PHASE 35

CITY OF SAN DIEGO, CALIFORNIA
SHEET 62 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T62-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

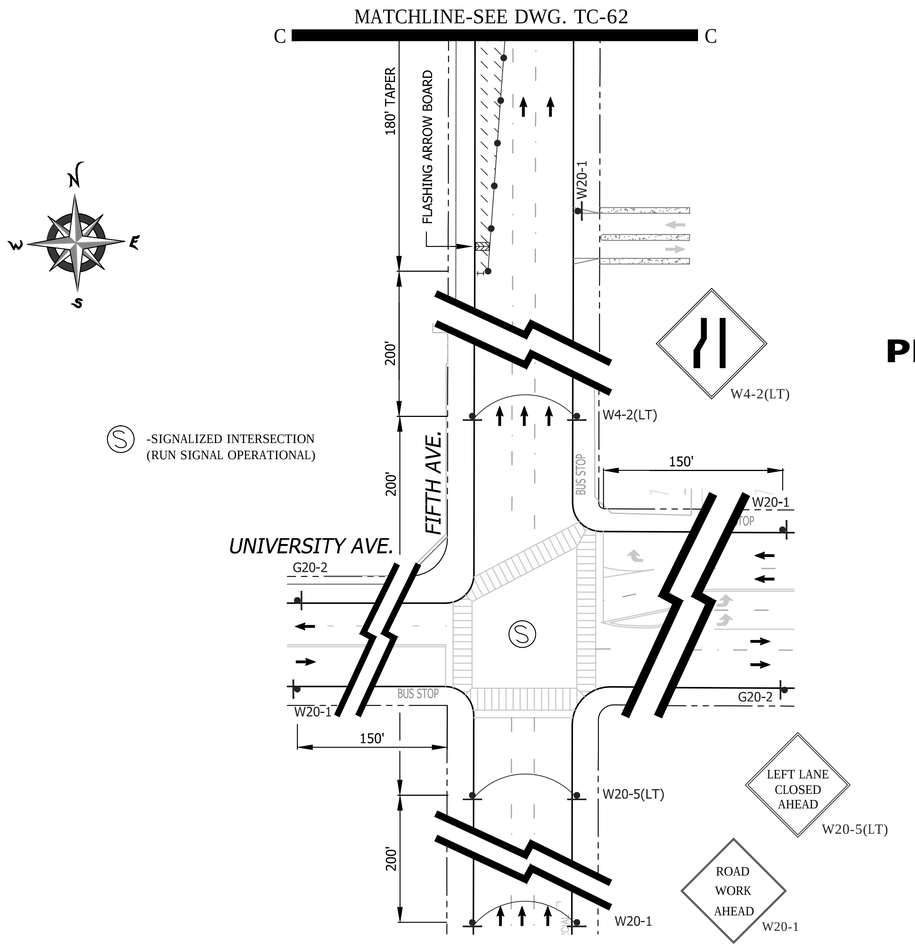
PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

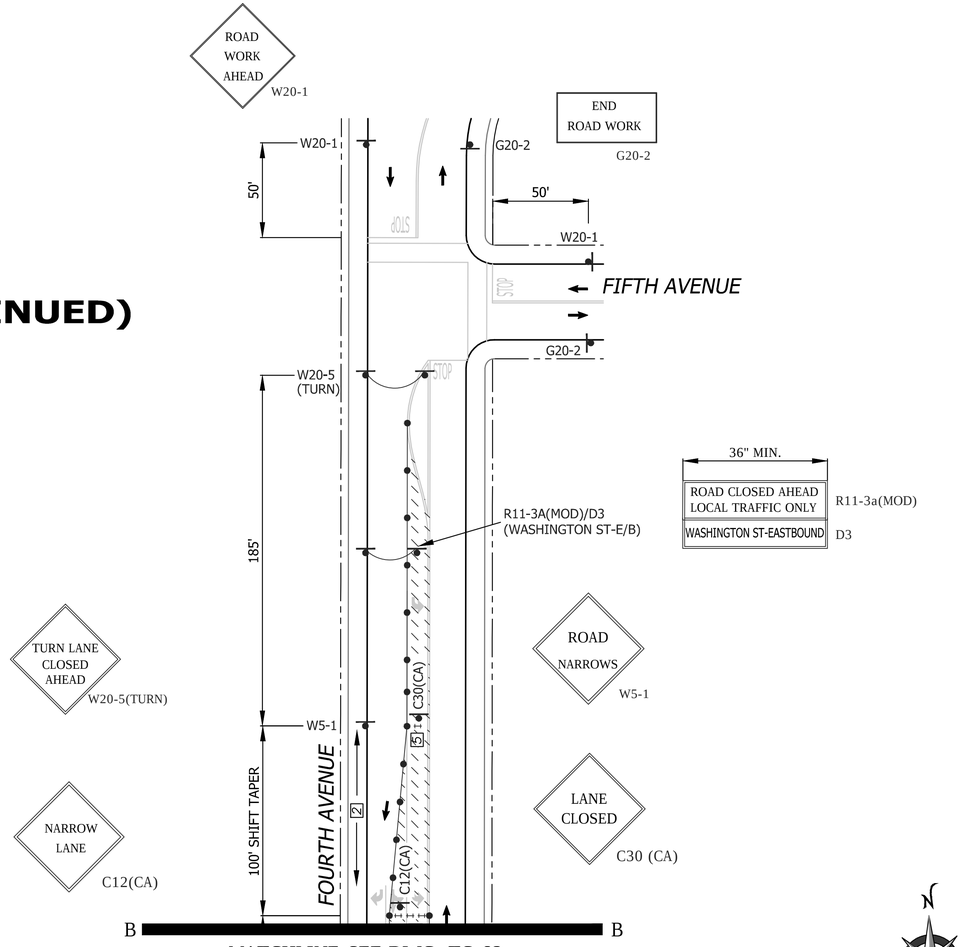
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 35 (CONTINUED)





SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 63

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE - PHASE 35
(CONTINUATION SHEET FOR TC-62)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 63 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

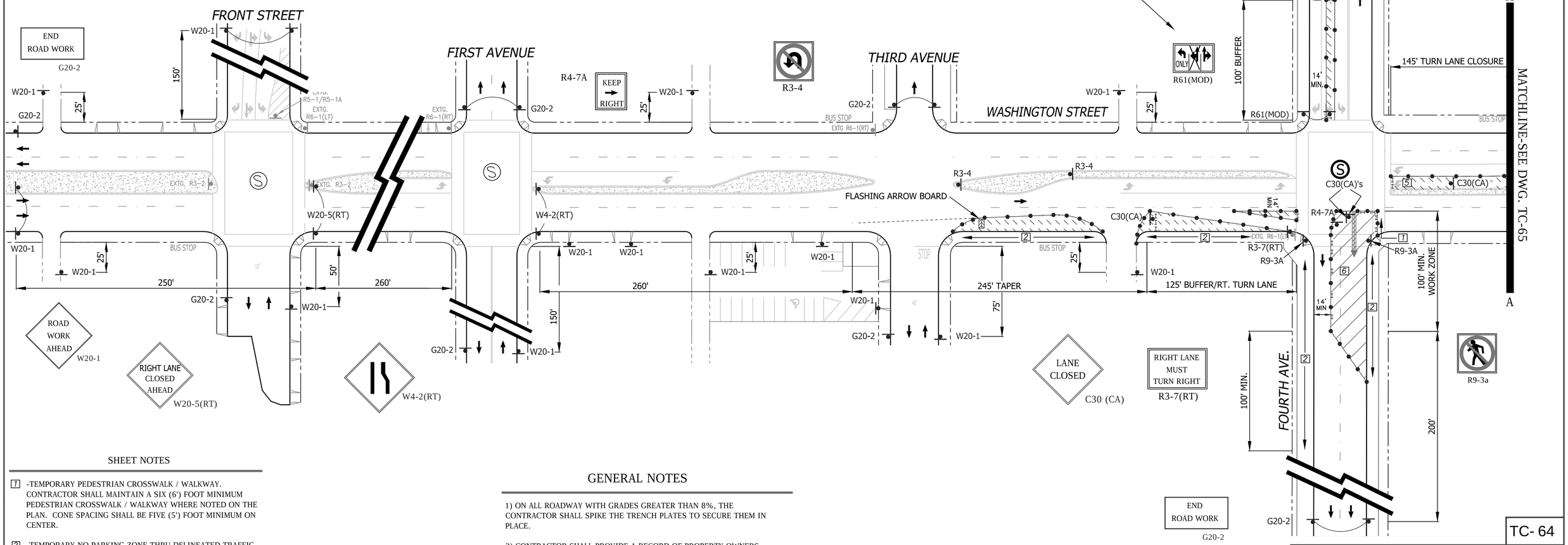
36656-T63-D

PHASE 36

MATCHLINE-SEE DWG. TC-65

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 64

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE
PHASE 36

CITY OF SAN DIEGO, CALIFORNIA
SHEET 64 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

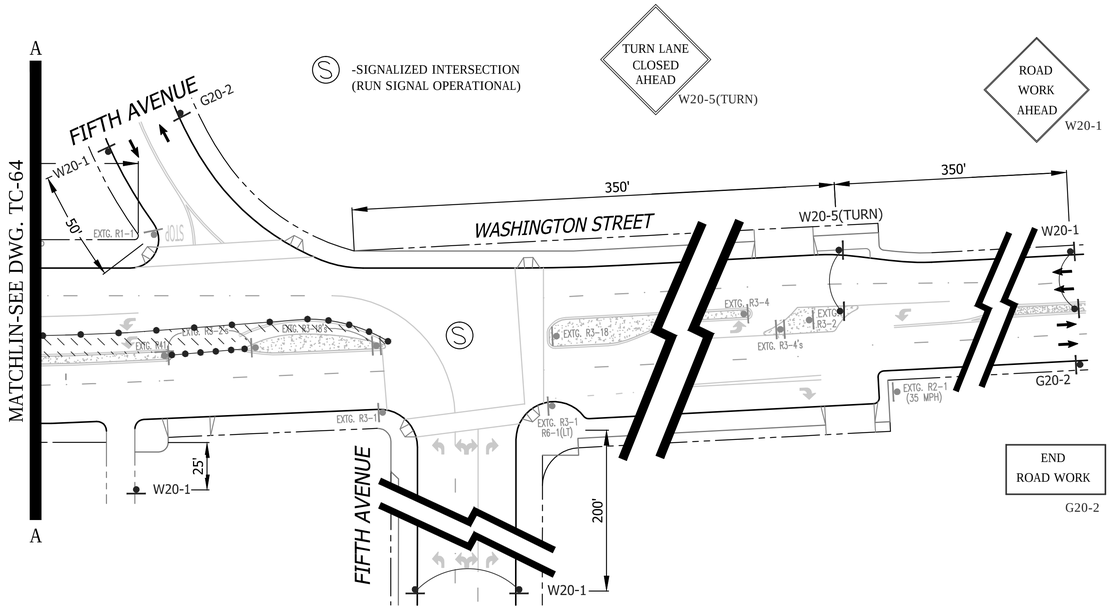
SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

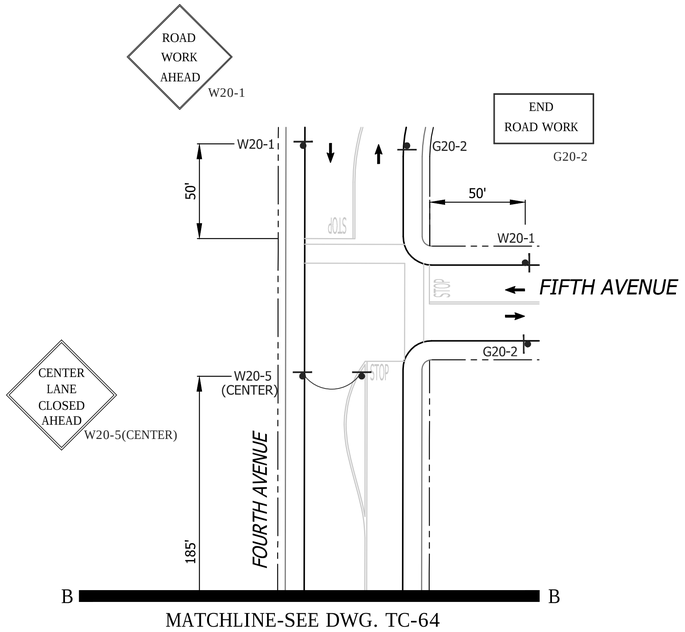
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T64-D





PHASE 36 (CONTINUED)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 65

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE - PHASE 36
(CONTINUATION SHEET FOR TC-64)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 65 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T65-D

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

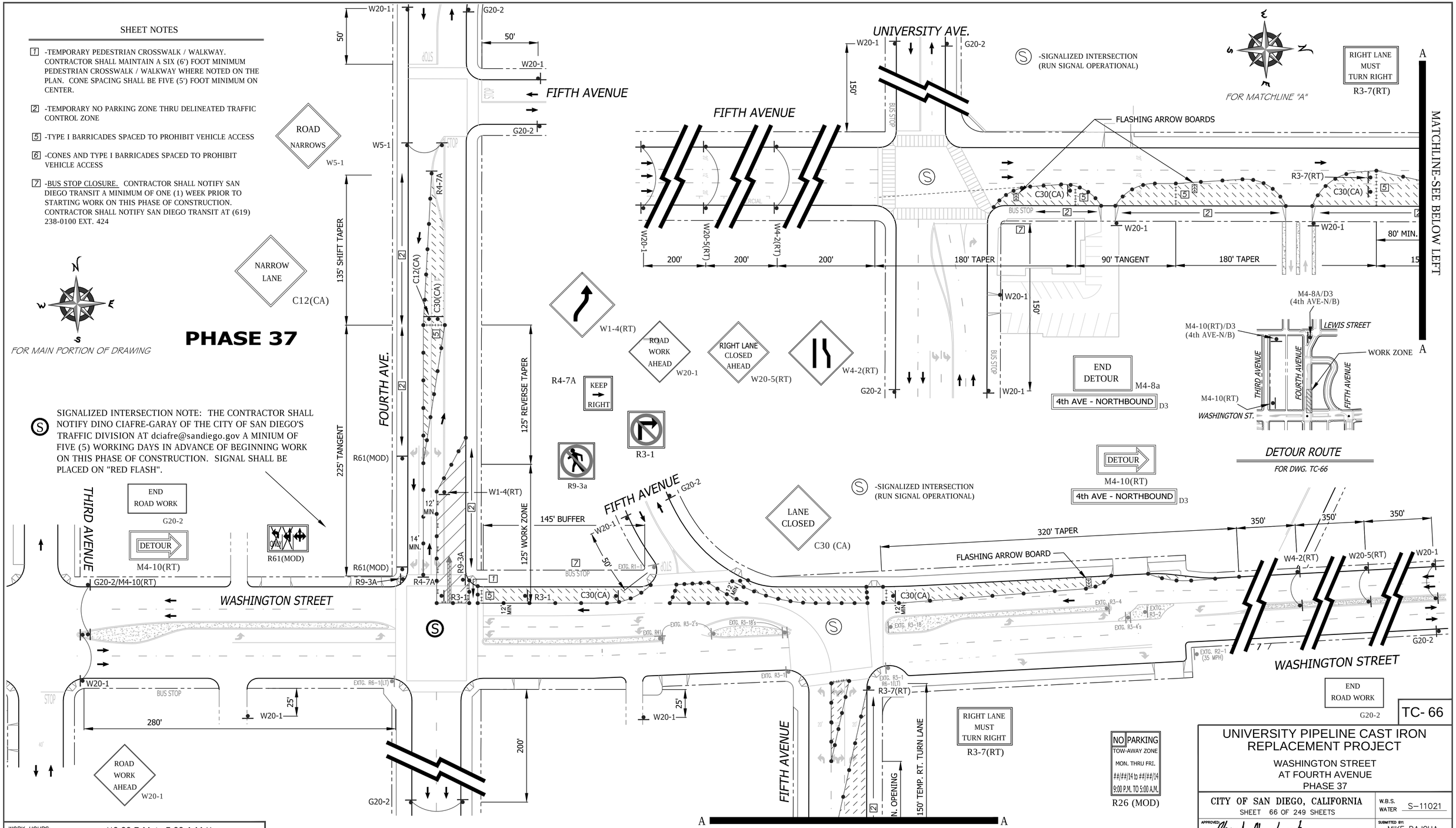
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

FOR MAIN PORTION OF DRAWING

PHASE 37

Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE
PHASE 37

CITY OF SAN DIEGO, CALIFORNIA
SHEET 66 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

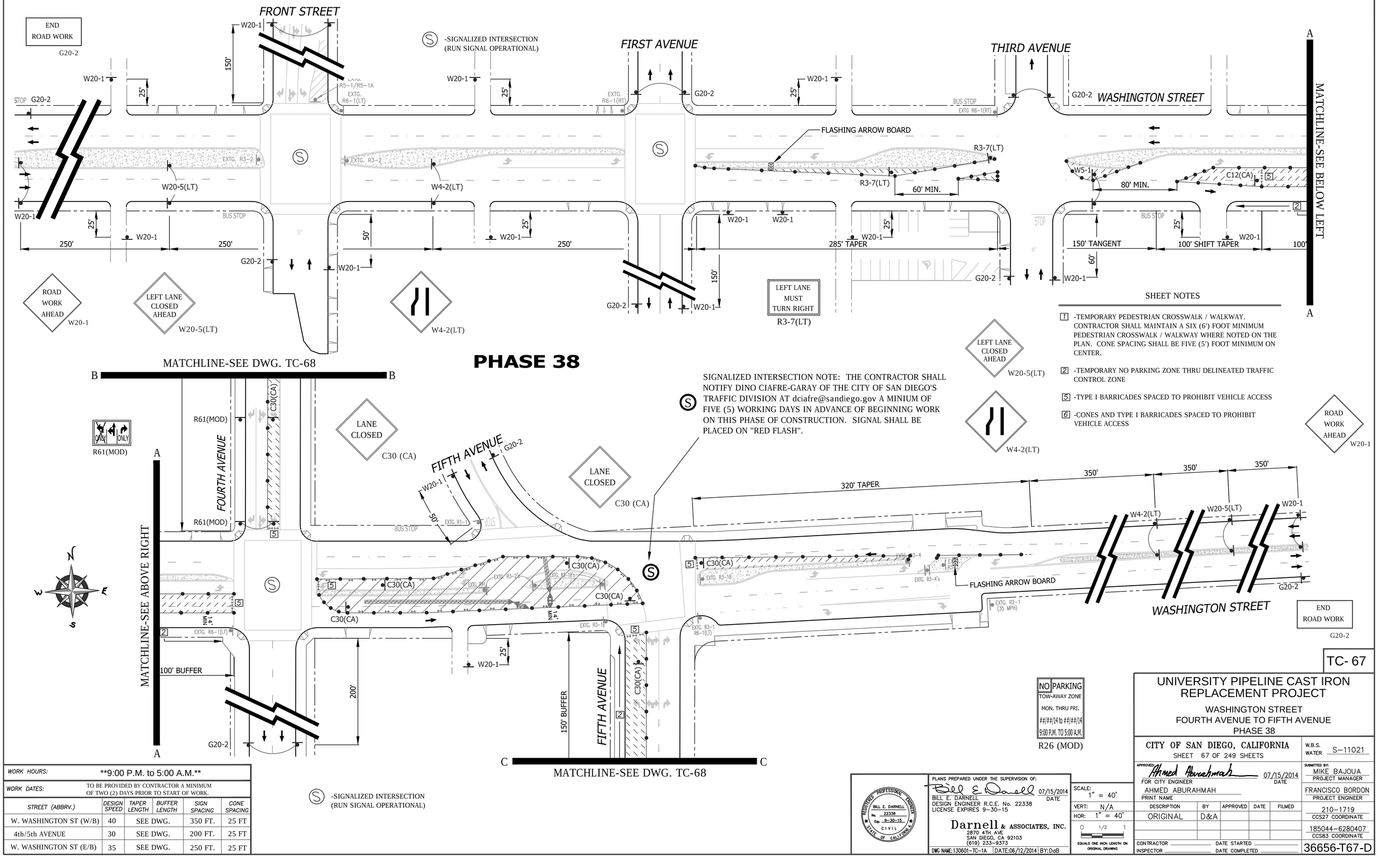
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

TC- 66

36656-T66-D



PHASE 38

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 67

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
FOURTH AVENUE TO FIFTH AVENUE
PHASE 38

CITY OF SAN DIEGO, CALIFORNIA
SHEET 67 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

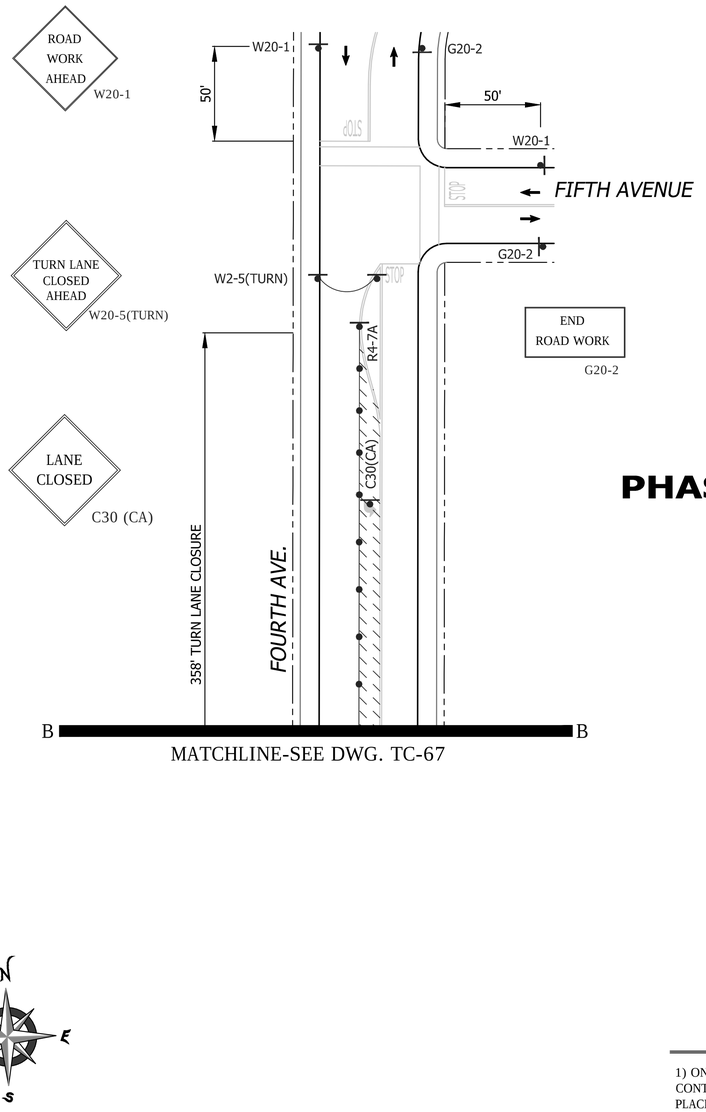
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

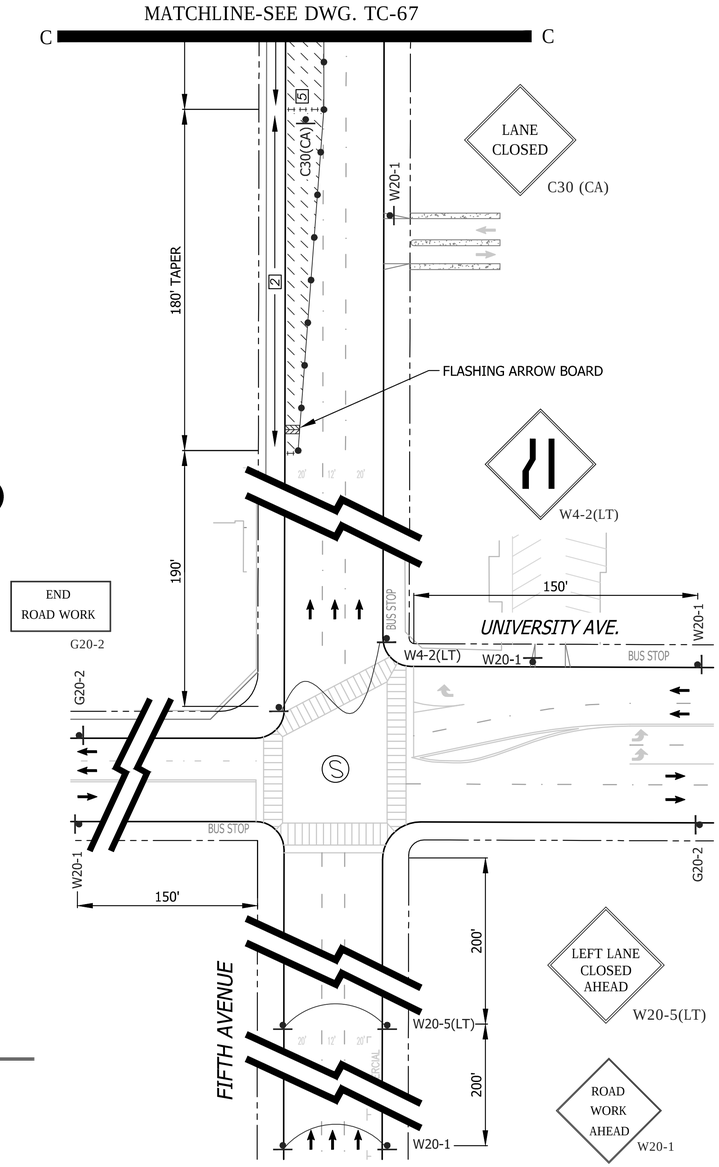
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T67-D



PHASE 38 (CONTINUED)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 68

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
FOURTH AVENUE TO FIFTH AVENUE - PHASE 38
(CONTINUATION SHEET FOR TC-67)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 68 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T68-D

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

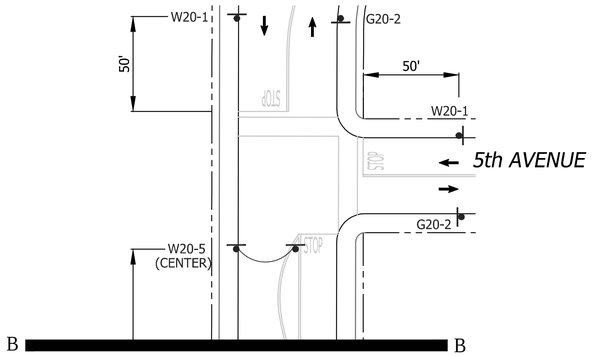
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

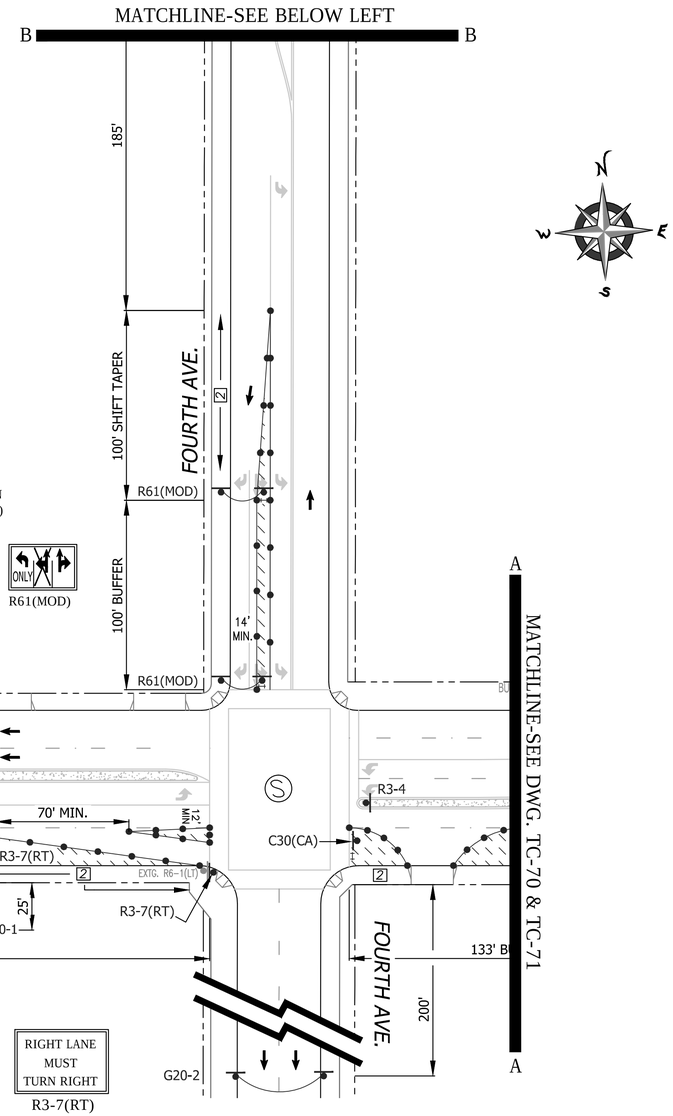
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

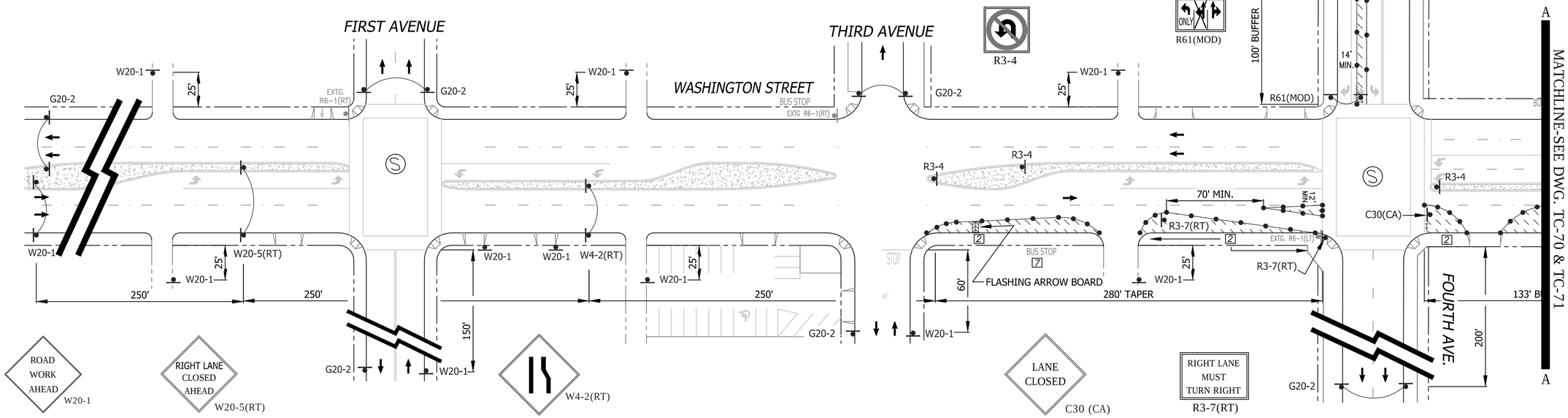




Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PHASE 39 & PHASE 40

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

R26 (MOD)

TC- 69

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE
PHASE 39

CITY OF SAN DIEGO, CALIFORNIA
SHEET 69 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T69-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

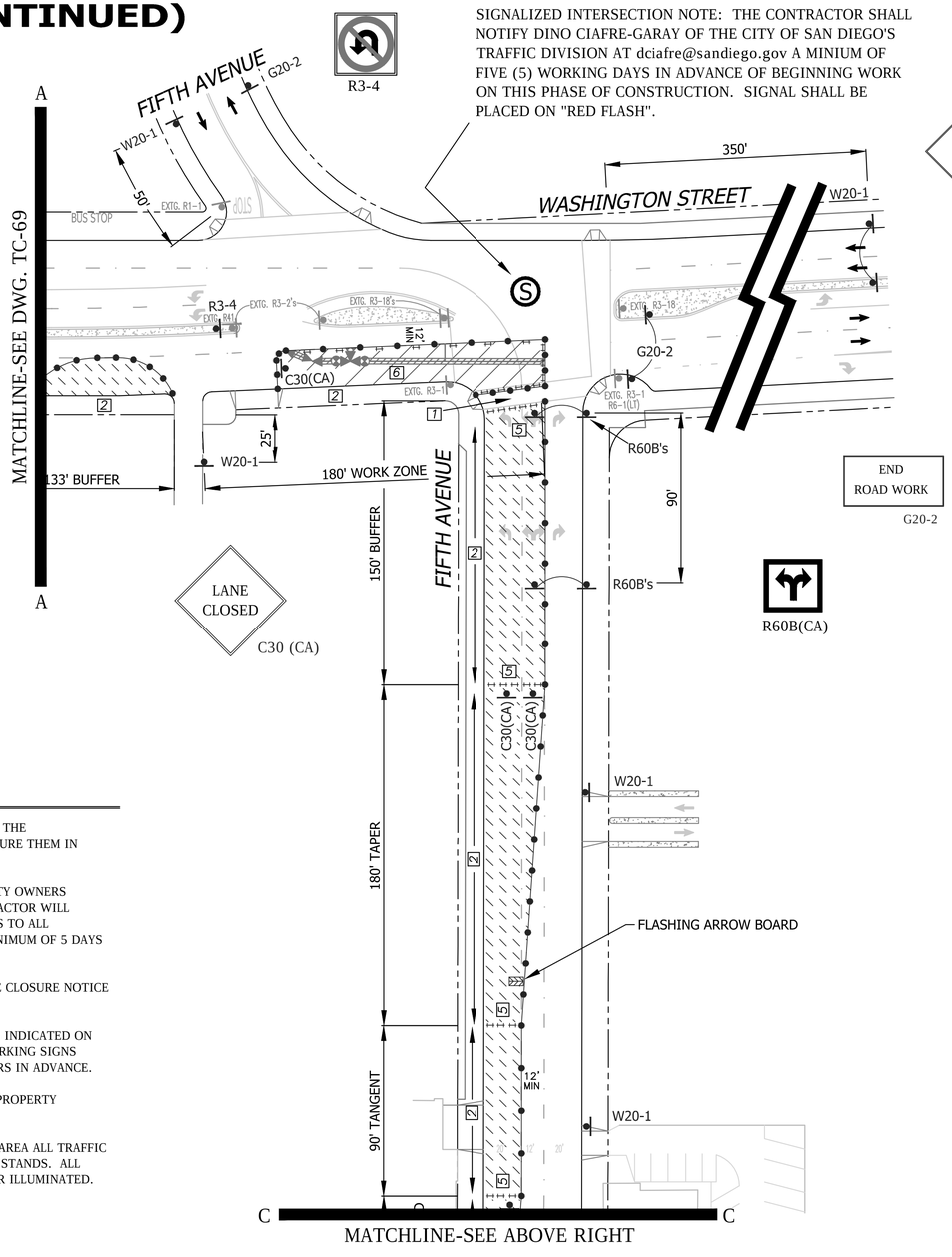
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

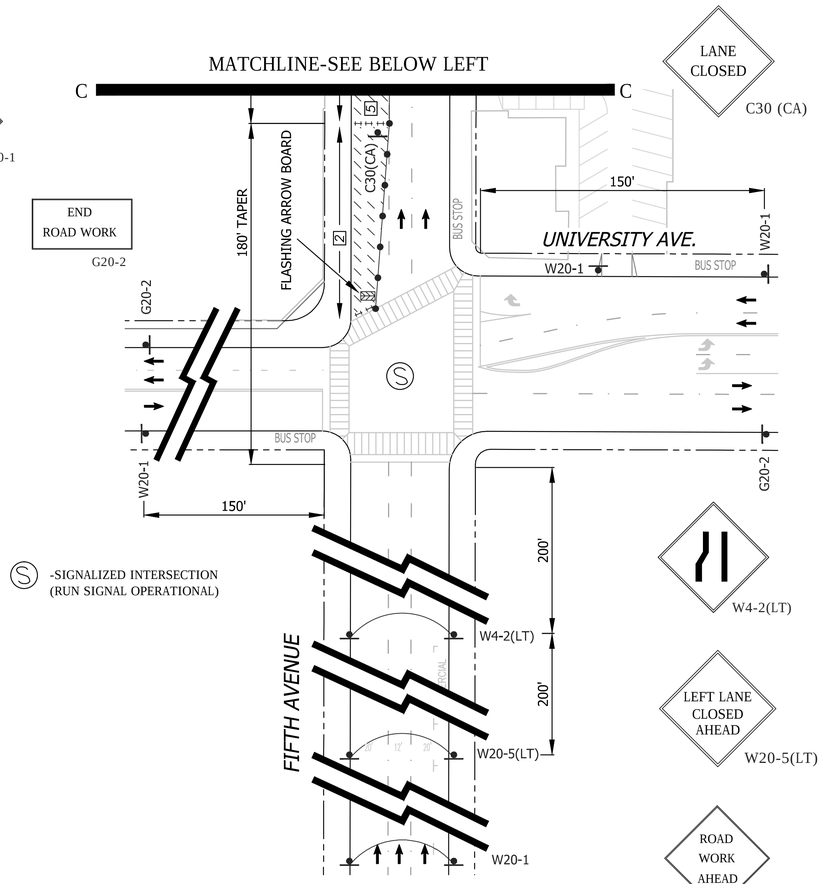
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 39 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

ROAD WORK AHEAD W20-1



S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 70

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE - PHASE 39
(CONTINUATION SHEET FOR DWG. TC-69)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 70 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

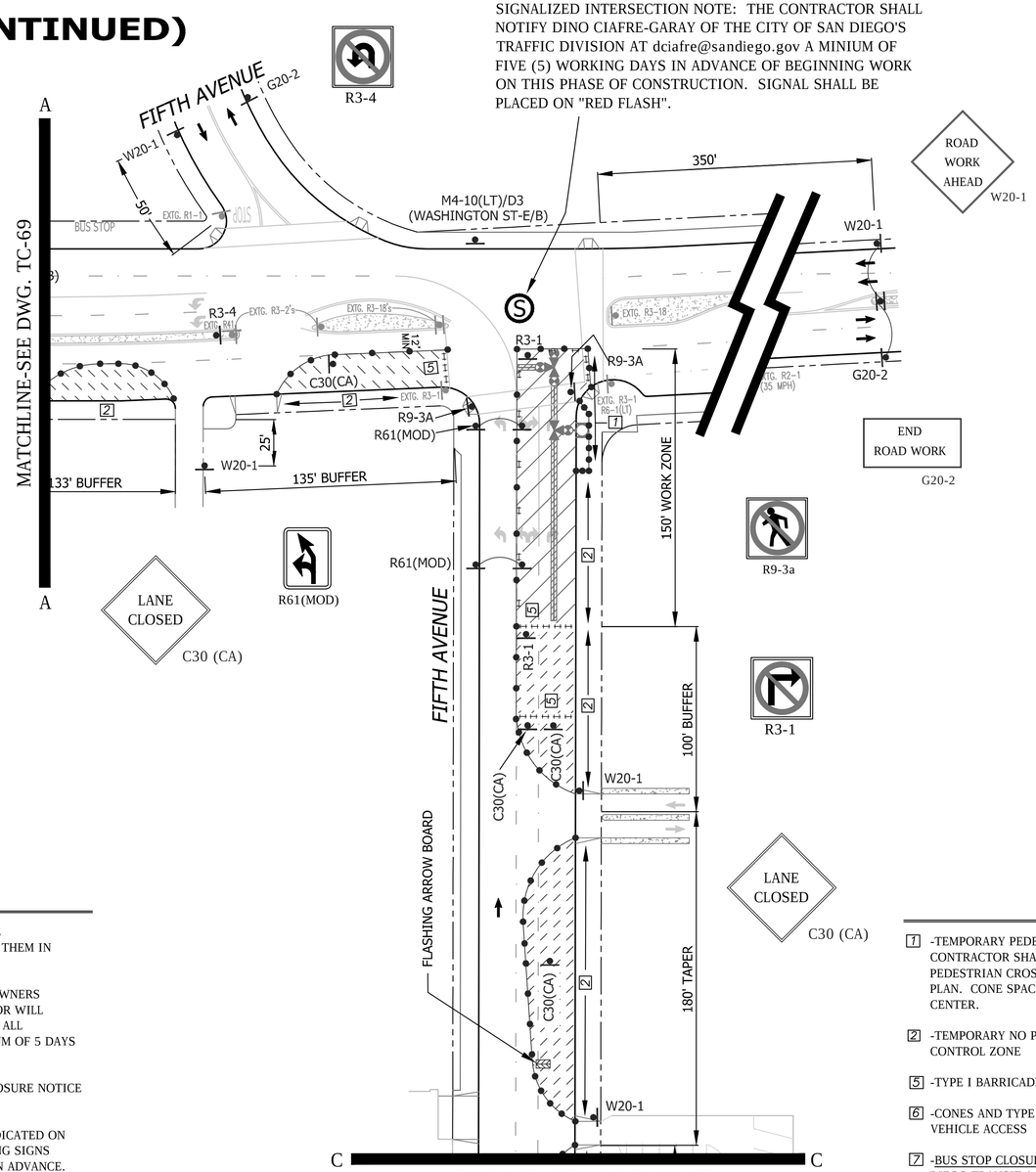
36656-T70-D

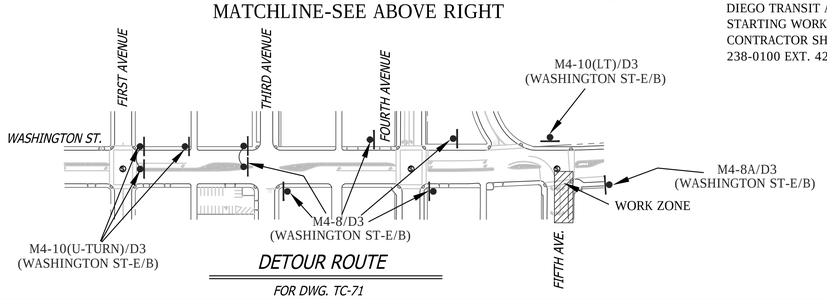
PHASE 40 (CONTINUED)

DETOUR M4-8
WASHINGTON ST - EASTBOUND D3

DETOUR
M4-10(LT)
WASHINGTON ST - EASTBOUND D3

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".





GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT	
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

SHEET NOTES

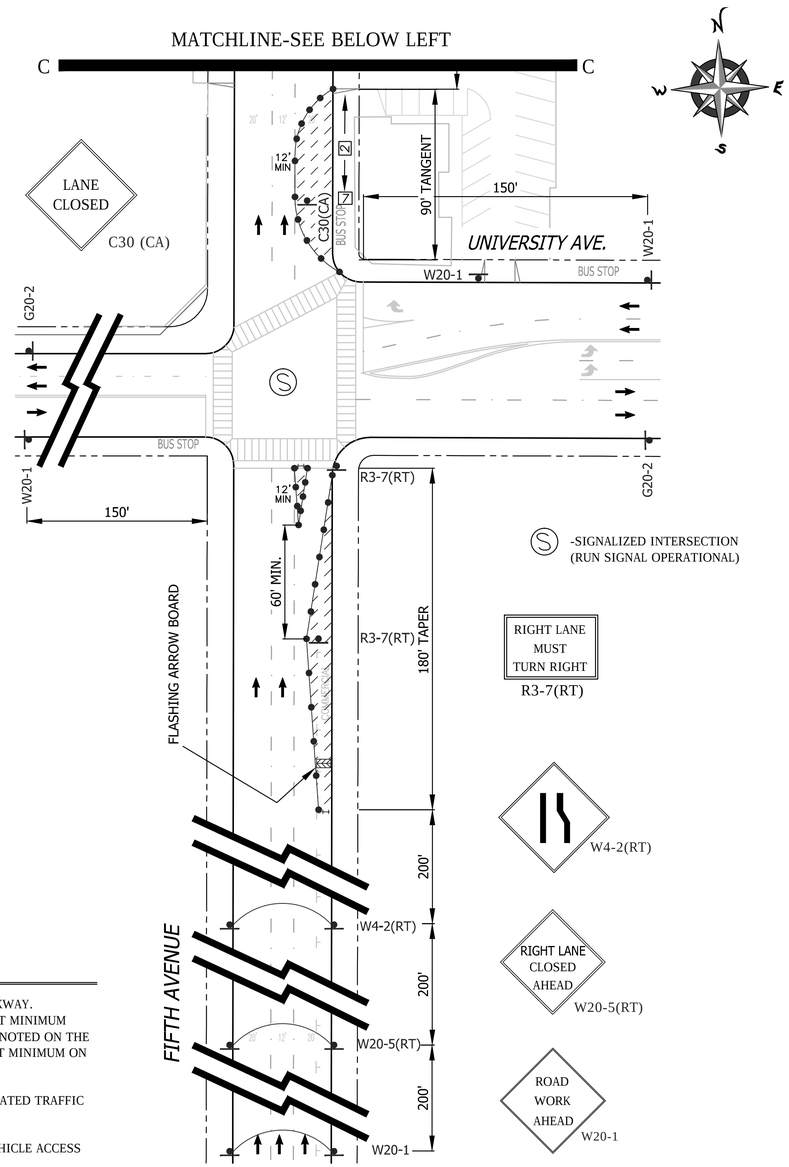
1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 71

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE - PHASE 40
(CONTINUATION SHEET FOR DWG. TC-69)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 71 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T71-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

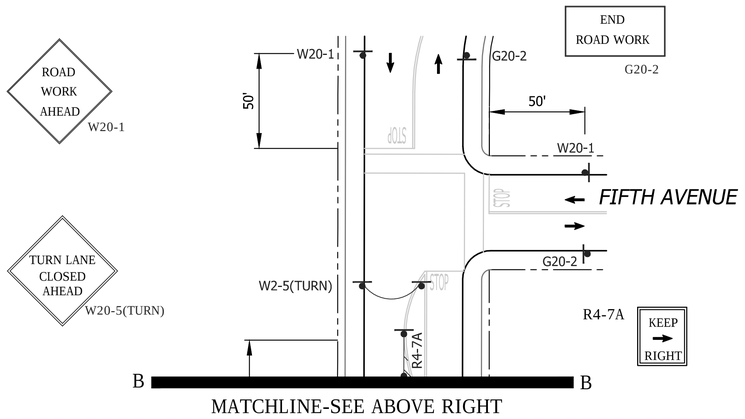
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

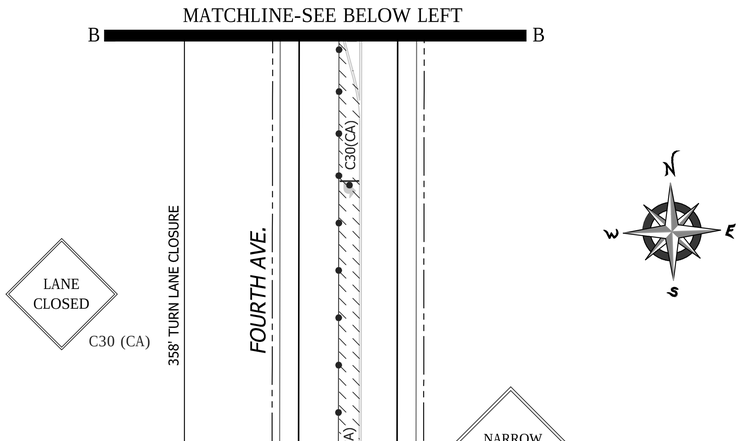
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

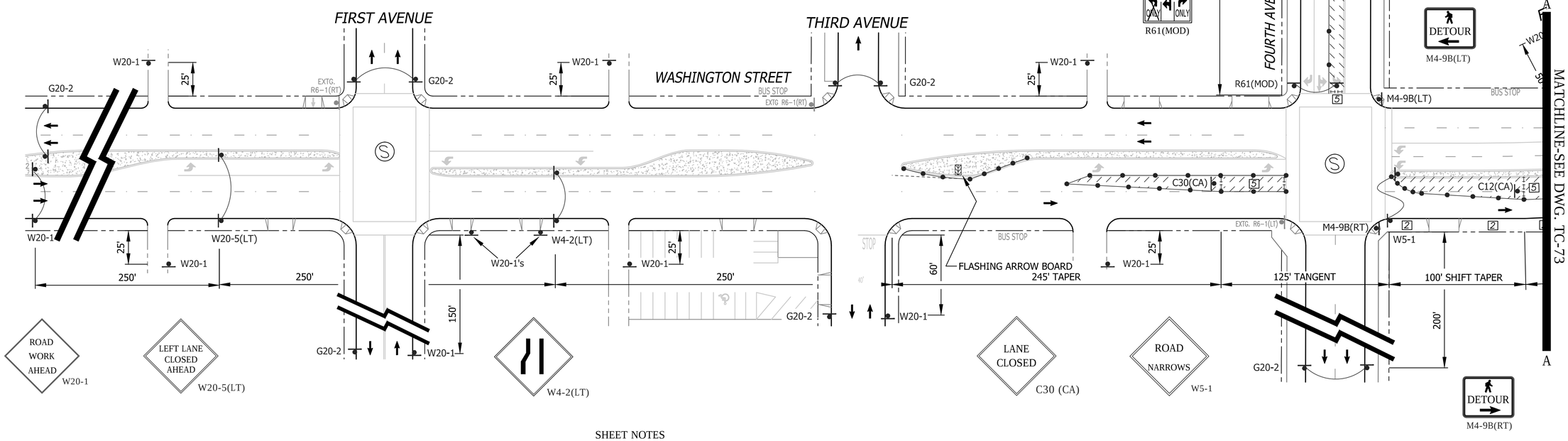




Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PHASE 41

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 72

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE
PHASE 41

CITY OF SAN DIEGO, CALIFORNIA
SHEET 72 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

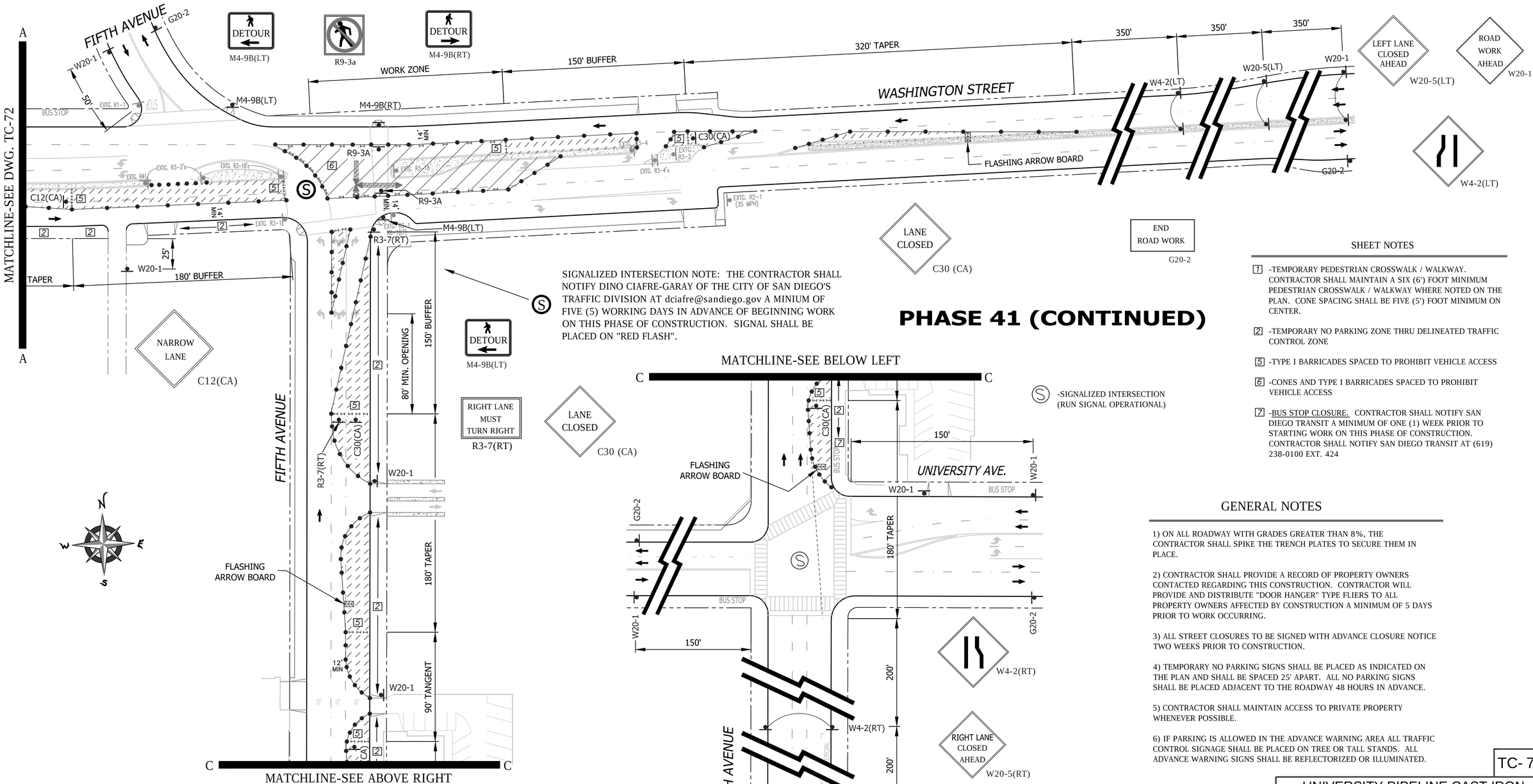
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T72-D



SHEET NOTES

[7] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT	
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 73

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE - PHASE 41
(CONTINUATION SHEET FOR DWG. TC-72)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 73 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T73-D

PHASE 42

MATCHLINE-SEE BELOW LEFT

MATCHLINE-SEE ABOVE RIGHT

MATCHLINE-SEE BELOW LEFT

MATCHLINE-SEE ABOVE RIGHT

N

W E

S

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

CONTRACTOR SHALL CONTACT SCRIPPS-MERCY HOSPITAL AT (619) 294-8111 A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION.

W1-4(RT)

R9-3a

LANE CLOSED
C30 (CA)

W4-2(RT)

RIGHT LANE CLOSED AHEAD
W20-5(RT)

ROAD WORK AHEAD
W20-1

FOURTH AVENUE

100' REV. TAPER/BUFFER

80' MIN.

12' MIN

R9-3A

R4-7A

EXTG. R1-1

BUS STOP

G20-2

C30(CA)

EXTG. R4-1

EXTG. R3-2's

EXTG. R3-18's

EXTG. R3-18

EXTG. R3-4

EXTG. R3-4's

EXTG. R3-2

EXTG. R2-1 (35 MPH)

150' BUFFER

320' TAPER

350'

350'

350'

FLASHING ARROW BOARD

W20-1

WASHINGTON STREET

W4-2(RT)

W20-5(RT)

W20-1

G20-2

END ROAD WORK

G20-2

EXTG. R6-1(LT)

W20-1

25'

280'

EXTG. R3-1

EXTG. R3-1

R3-7(RT)

80' MIN. OPENING

150' BUFFER

RIGHT LANE MUST TURN RIGHT

R3-7(RT)

FIFTH AVENUE

R3-7(RT)

C30(CA)

W20-1

180' TAPER

FLASHING ARROW BOARD

12' MIN

W20-1

90' TANGENT

B

B

W20-1

G20-2

END ROAD WORK

G20-2

50'

STOP

STOP

FOURTH AVENUE

C12(CA)

W5-1

140'

50'

W20-1

150'

FIFTH AVENUE

100' SHIFT TAPER

R4-7A

A

A

B

B

C30(CA)

150'

UNIVERSITY AVE.

W20-1

BUS STOP

W20-1

FLASHING ARROW BOARD

LANE CLOSED

C30 (CA)

G20-2

180' TAPER

BUS STOP

W20-1

150'

200'

200'

200'

FIFTH AVENUE

W4-2(RT)

W20-5(RT)

W20-1

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

W4-2(RT)

ROAD WORK AHEAD
W20-1

RIGHT LANE CLOSED AHEAD
W20-5(RT)

G20-2

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
5th AVENUE	25-30	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 74

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE
PHASE 42

CITY OF SAN DIEGO, CALIFORNIA
SHEET 74 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

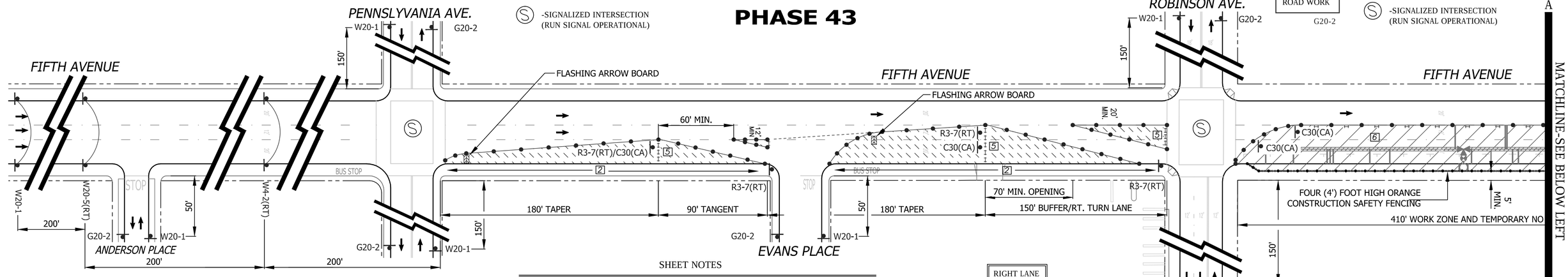
210-1719
CCS27 COORDINATE

185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T74-D

PHASE 43



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

LANE CLOSED C30 (CA)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

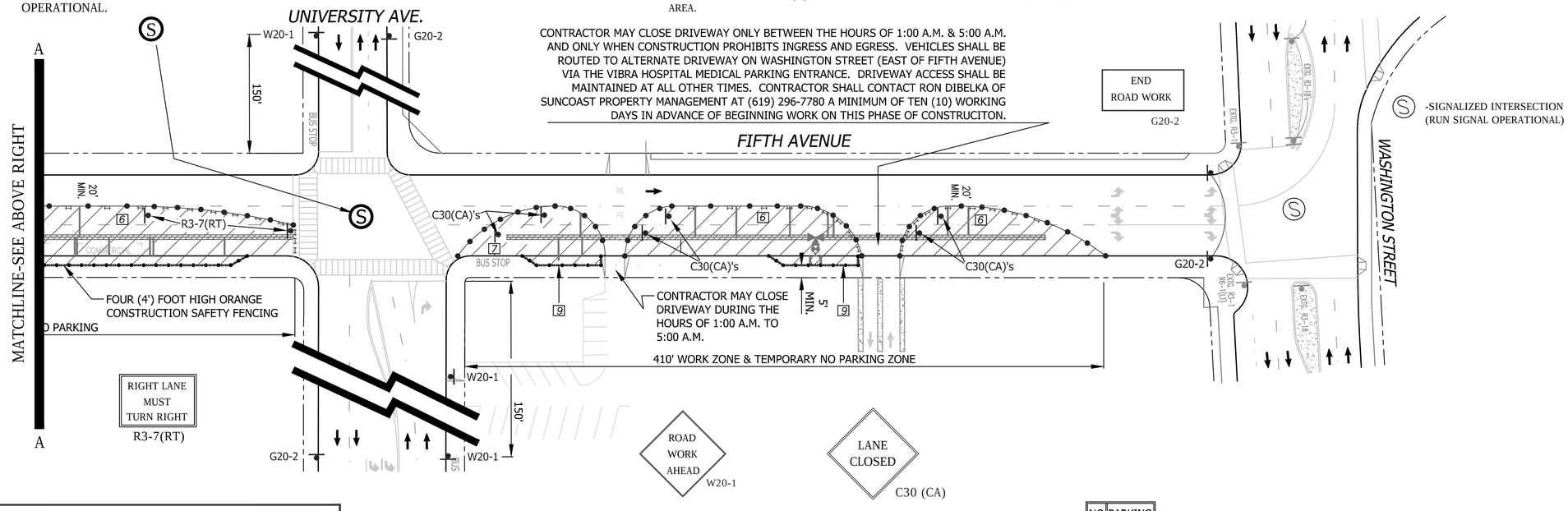
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

CONTRACTOR MAY CLOSE DRIVEWAY ONLY BETWEEN THE HOURS OF 1:00 A.M. & 5:00 A.M. AND ONLY WHEN CONSTRUCTION PROHIBITS INGRESS AND EGRESS. VEHICLES SHALL BE ROUTED TO ALTERNATE DRIVEWAY ON WASHINGTON STREET (EAST OF FIFTH AVENUE) VIA THE VIBRA HOSPITAL MEDICAL PARKING ENTRANCE. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL OTHER TIMES. CONTRACTOR SHALL CONTACT RON DIBELKA OF SUNCOAST PROPERTY MANAGEMENT AT (619) 296-7780 A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCITON.



RIGHT LANE MUST TURN RIGHT R3-7(RT)

ROAD WORK AHEAD W20-1

LANE CLOSED C30 (CA)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 75

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE -
ROBINSON AVENUE TO WASHINGTON STREET
PHASE 43

CITY OF SAN DIEGO, CALIFORNIA
SHEET 75 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

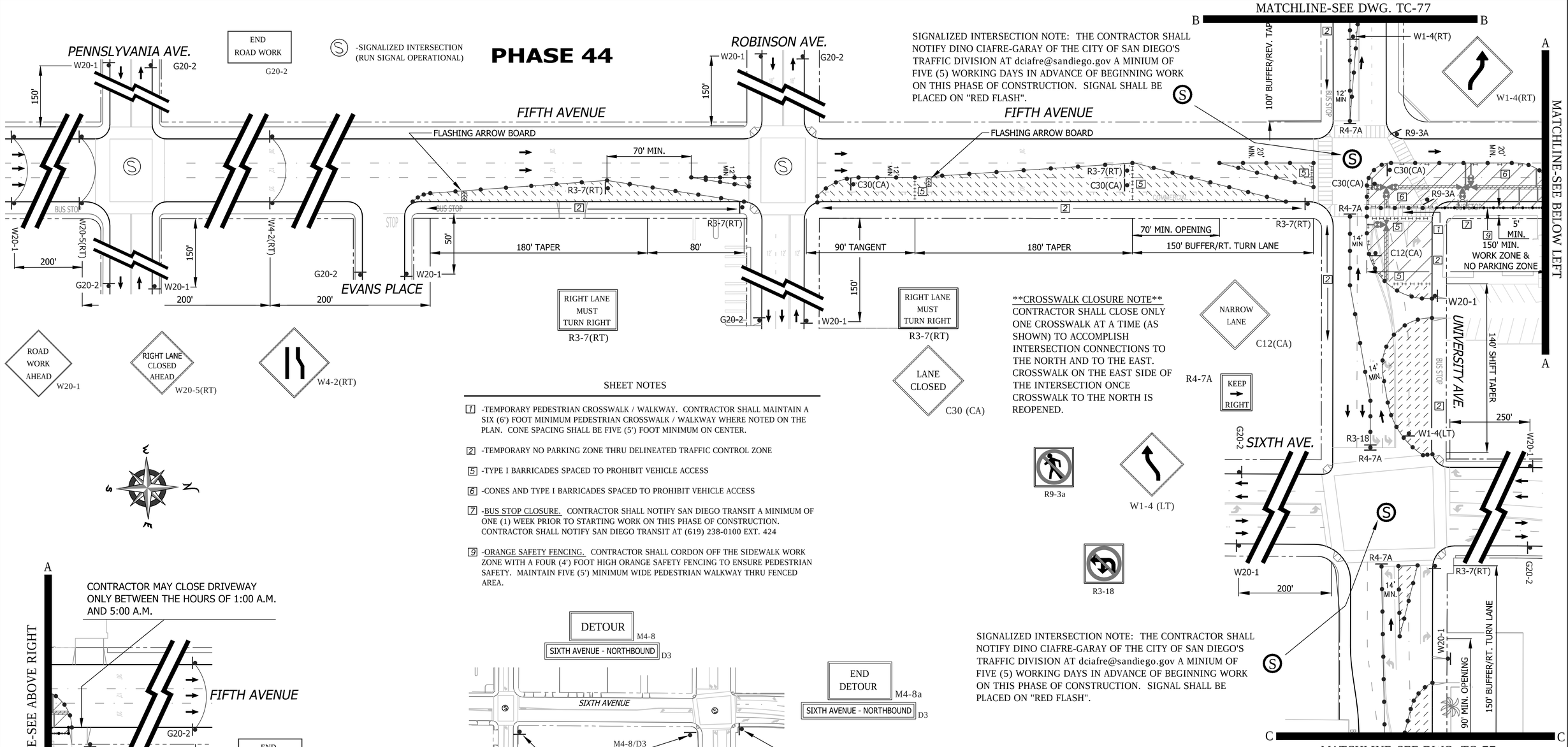
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T75-D

PHASE 44

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

NARROW LANE C12(CA)

R4-7A KEEP RIGHT

R9-3a

W1-4 (LT)

R3-18

CROSSWALK CLOSURE NOTE
CONTRACTOR SHALL CLOSE ONLY ONE CROSSWALK AT A TIME (AS SHOWN) TO ACCOMPLISH INTERSECTION CONNECTIONS TO THE NORTH AND TO THE EAST. CROSSWALK ON THE EAST SIDE OF THE INTERSECTION ONCE CROSSWALK TO THE NORTH IS REOPENED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

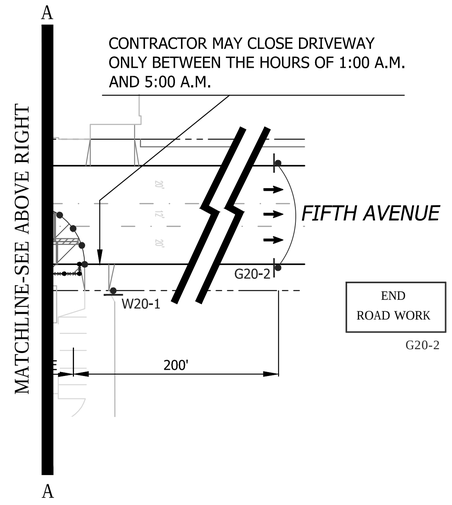
[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

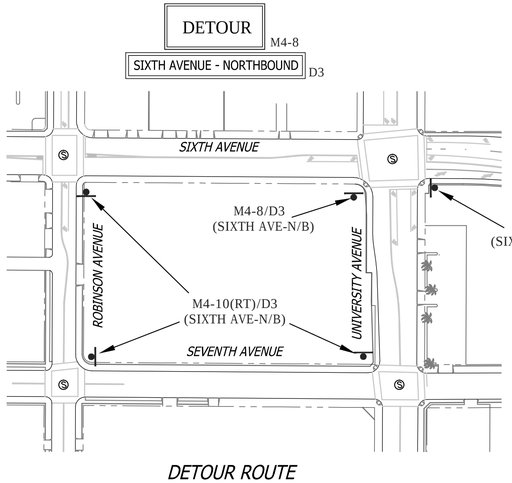
[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.



DETOUR M4-10(RT) SIXTH AVENUE - NORTHBOUND D3



END DETOUR M4-8a SIXTH AVENUE - NORTHBOUND D3

FOR DETOUR ROUTE

DETOUR ROUTE
FOR DWGs. TC-76 & TC-77

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	25-30	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 44

CITY OF SAN DIEGO, CALIFORNIA
SHEET 76 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

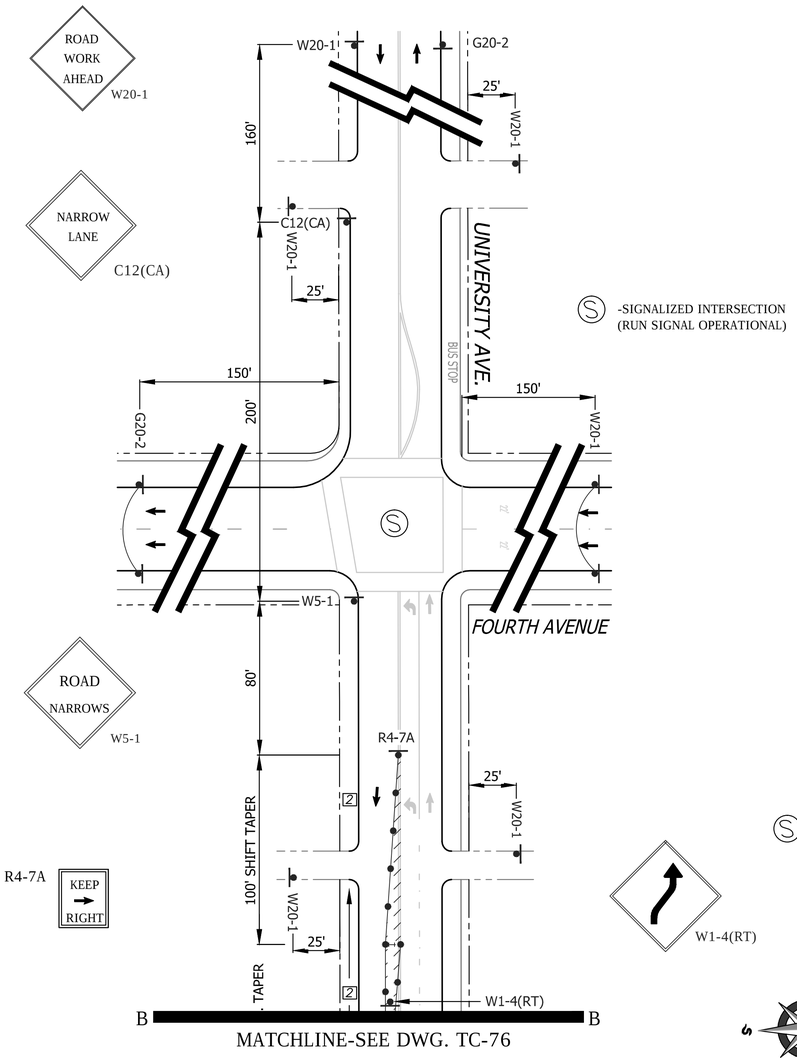
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

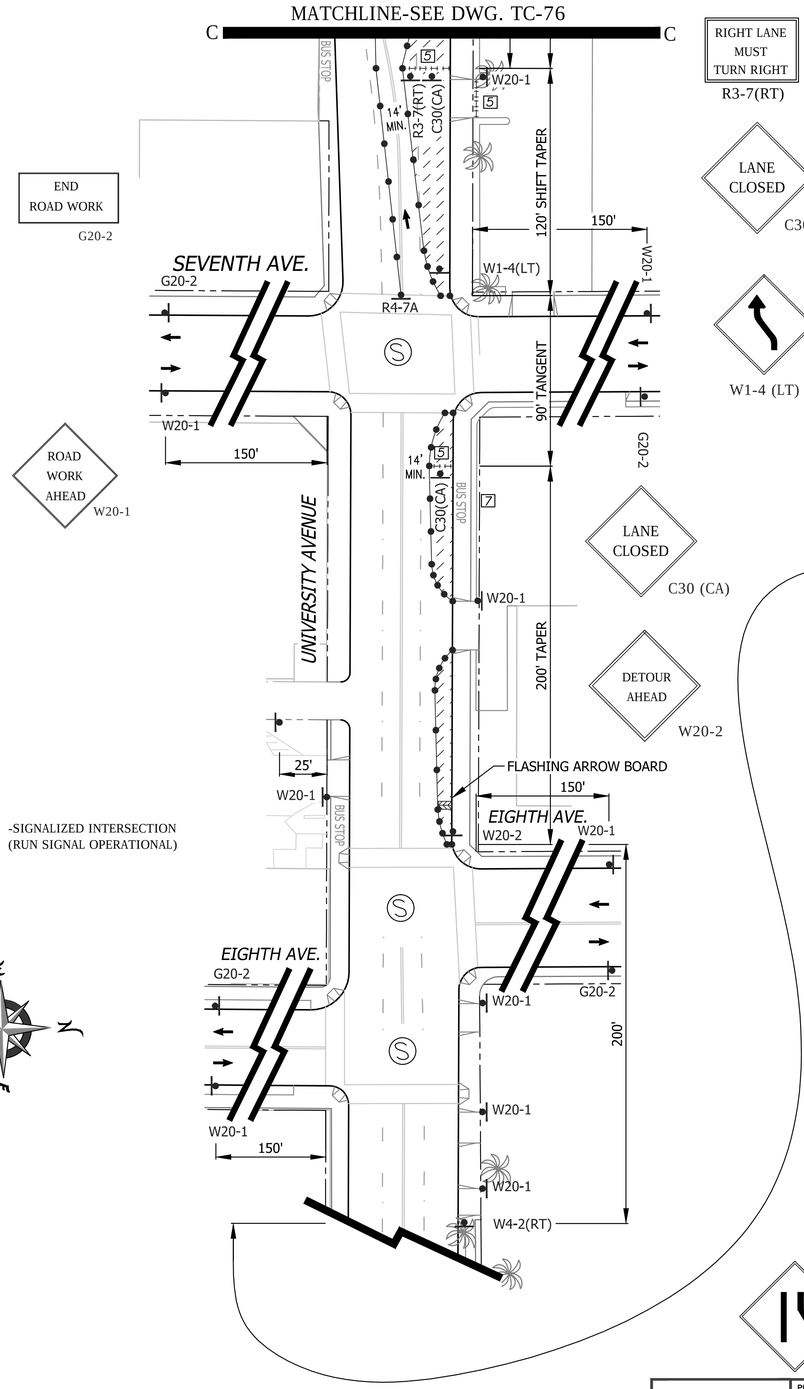
36656-T76-D

TC- 76

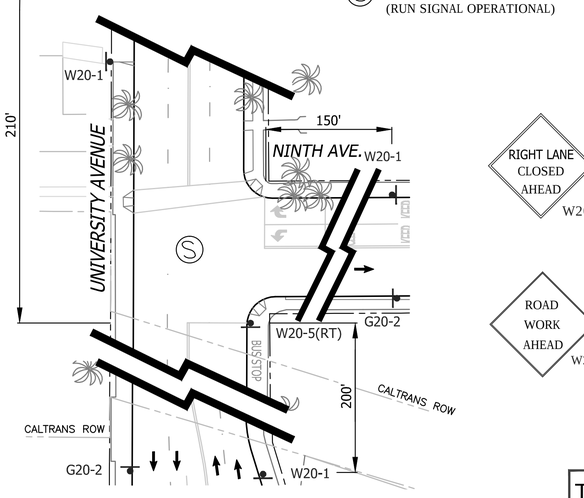
PHASE 44 (CONTINUED)



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	25-30	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

W4-2(RT)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 77

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 44

CITY OF SAN DIEGO, CALIFORNIA
SHEET 77 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

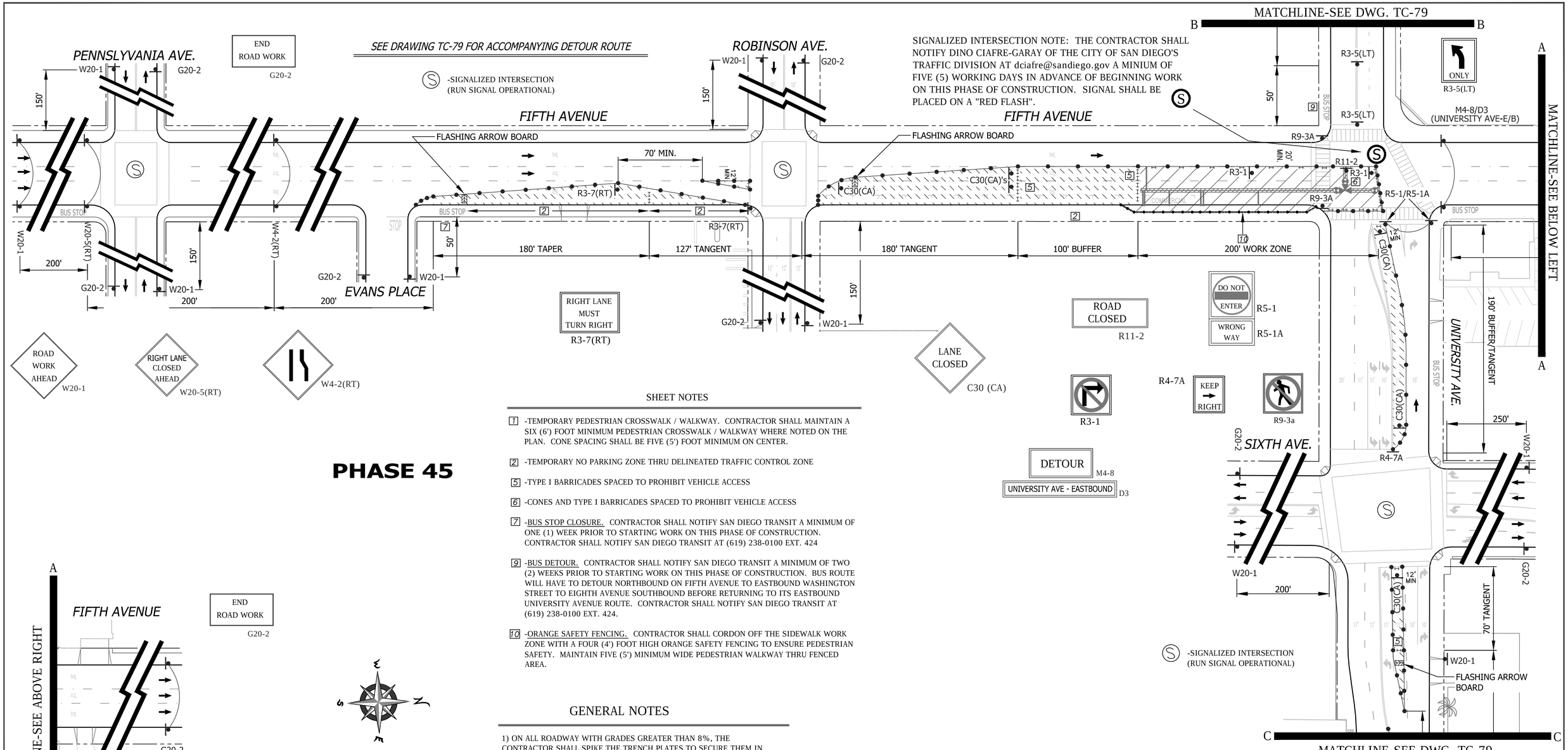
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

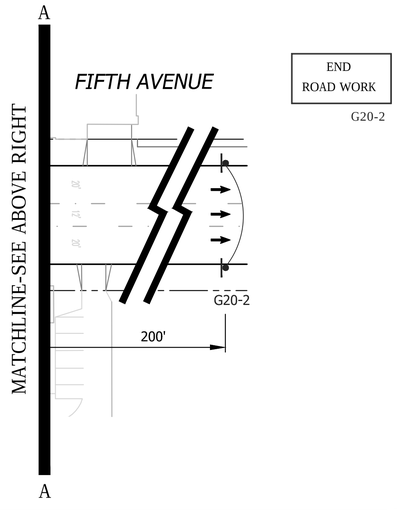
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T77-D



PHASE 45



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

[10] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 78

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 45

CITY OF SAN DIEGO, CALIFORNIA
SHEET 78 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T78-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

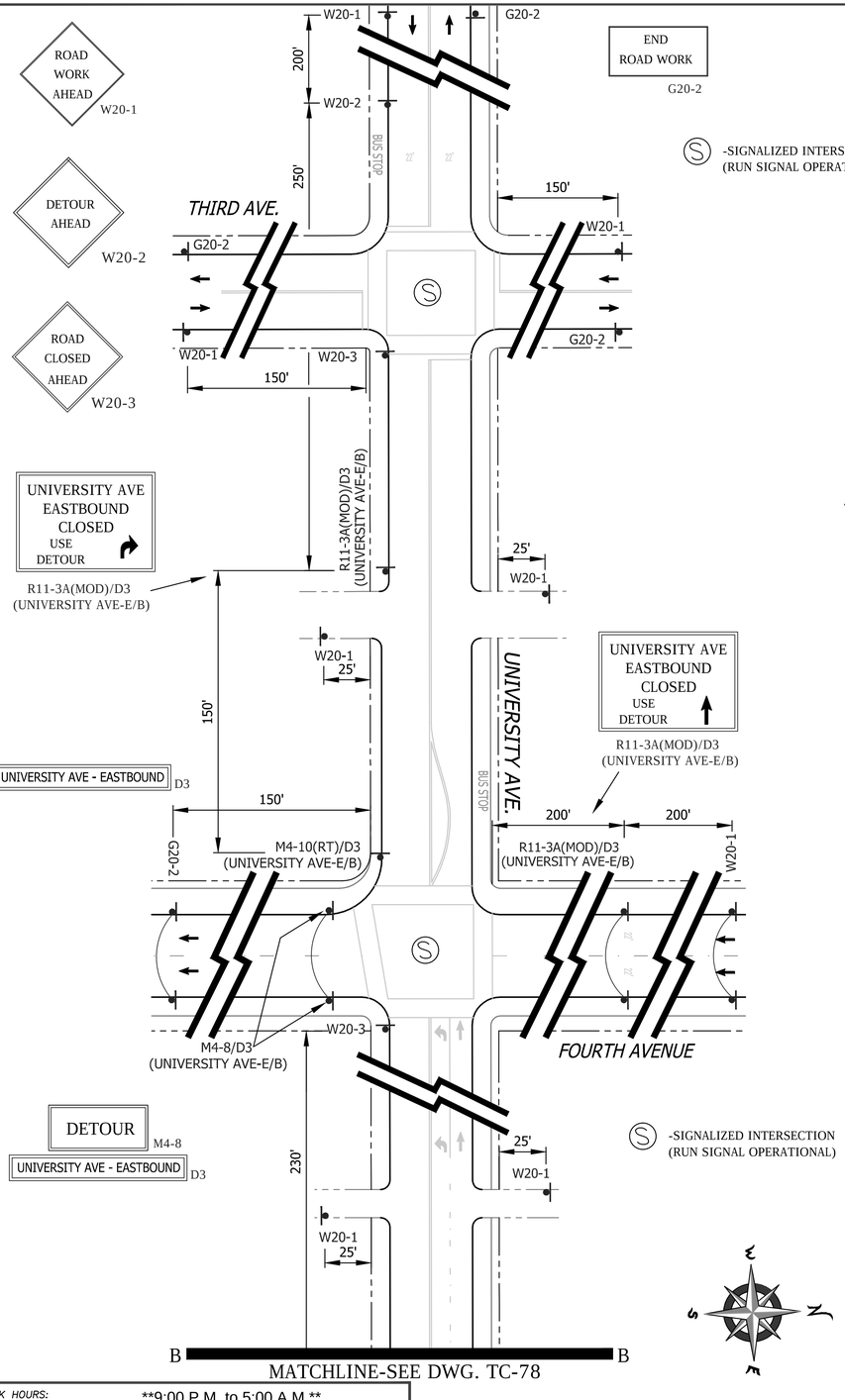
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

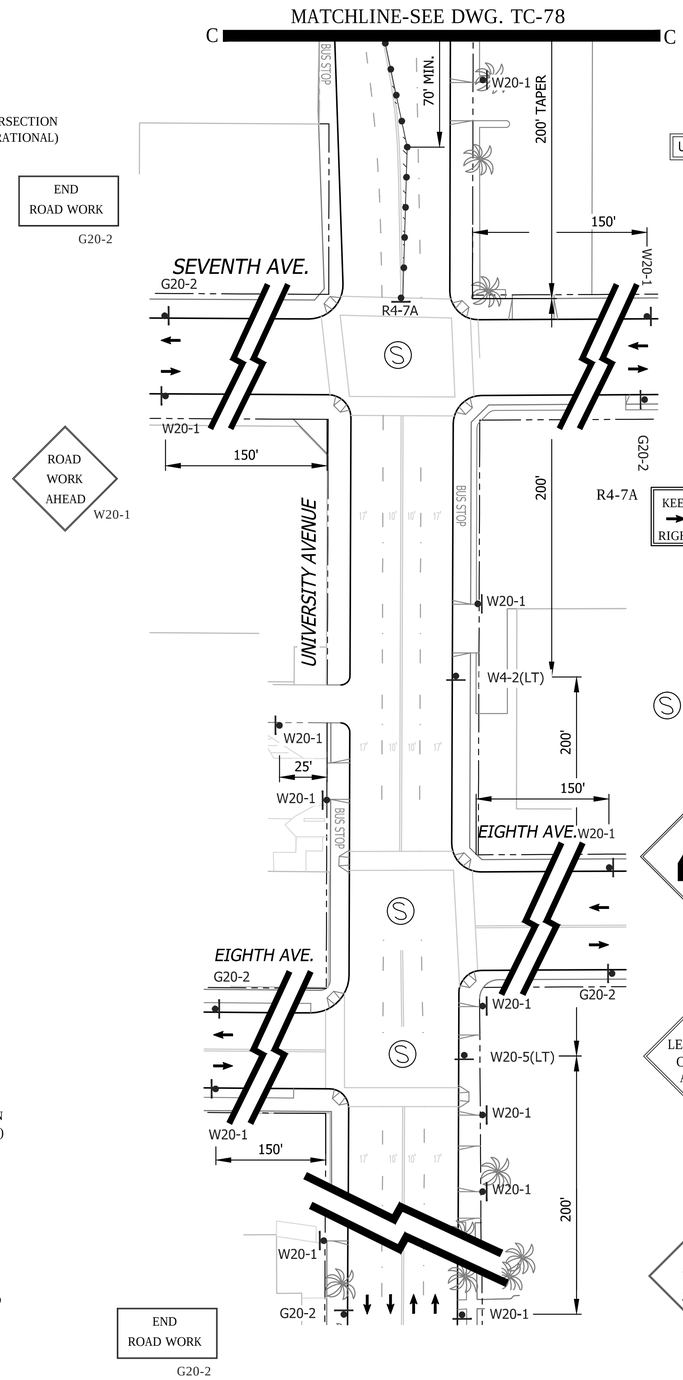
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

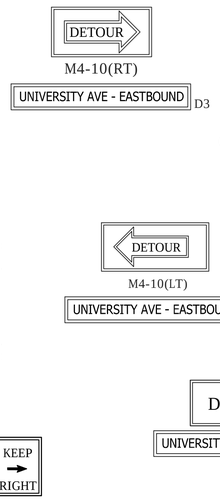
DWG NAME:130601-TC-1A | DATE:06/12/2014 | BY:DaB

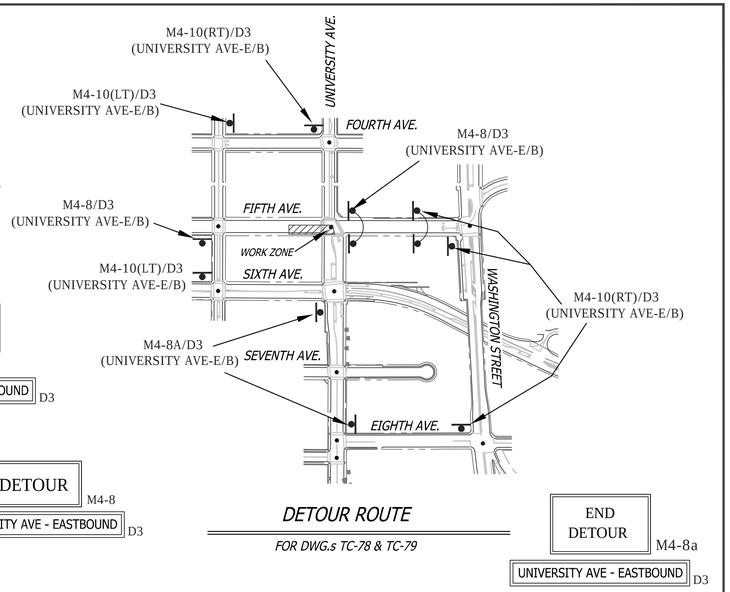
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 45 (CONTINUED)









SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

9 -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

TC- 79

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 45

CITY OF SAN DIEGO, CALIFORNIA
SHEET 79 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T79-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

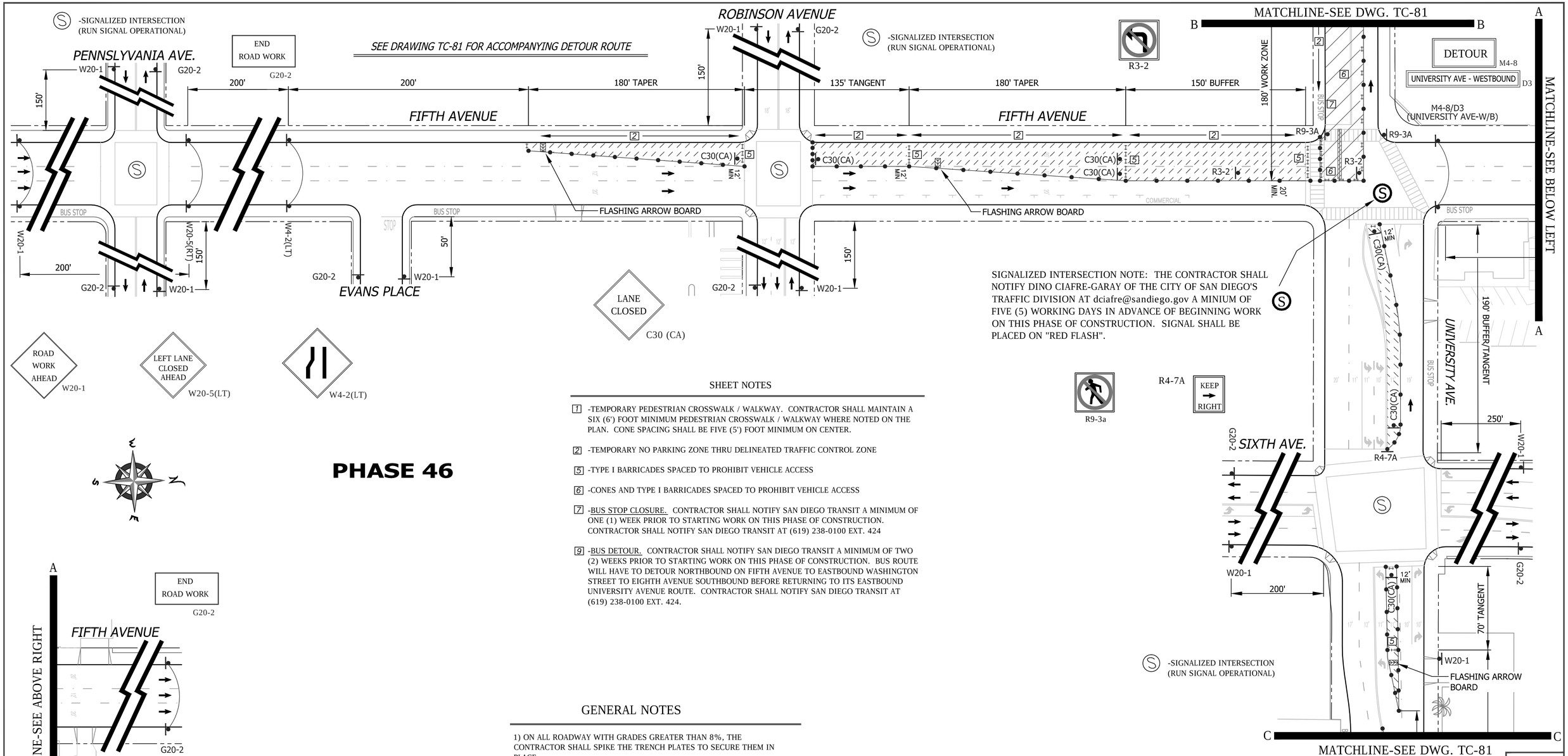
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 46

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 46

CITY OF SAN DIEGO, CALIFORNIA
SHEET 80 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

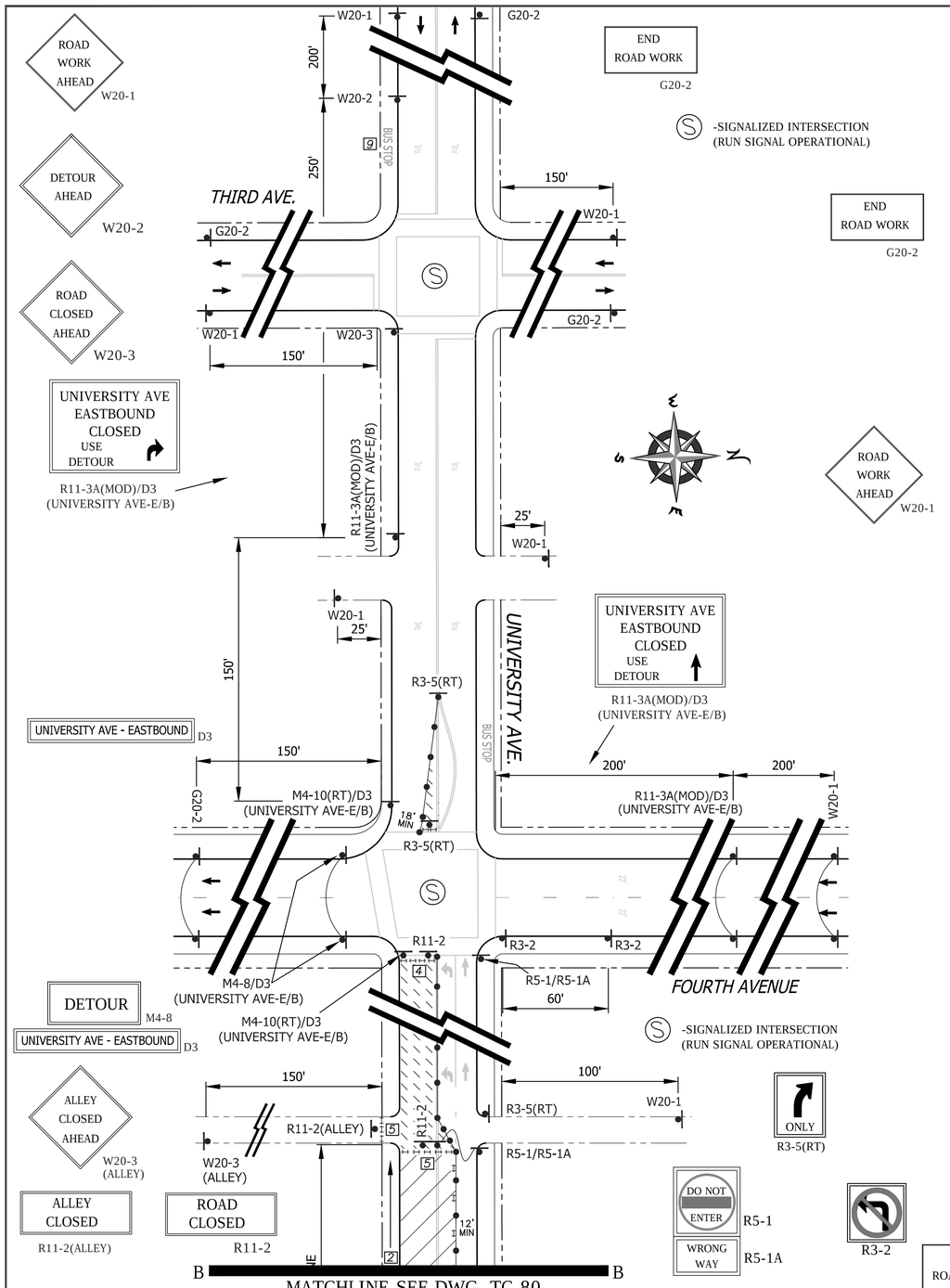
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

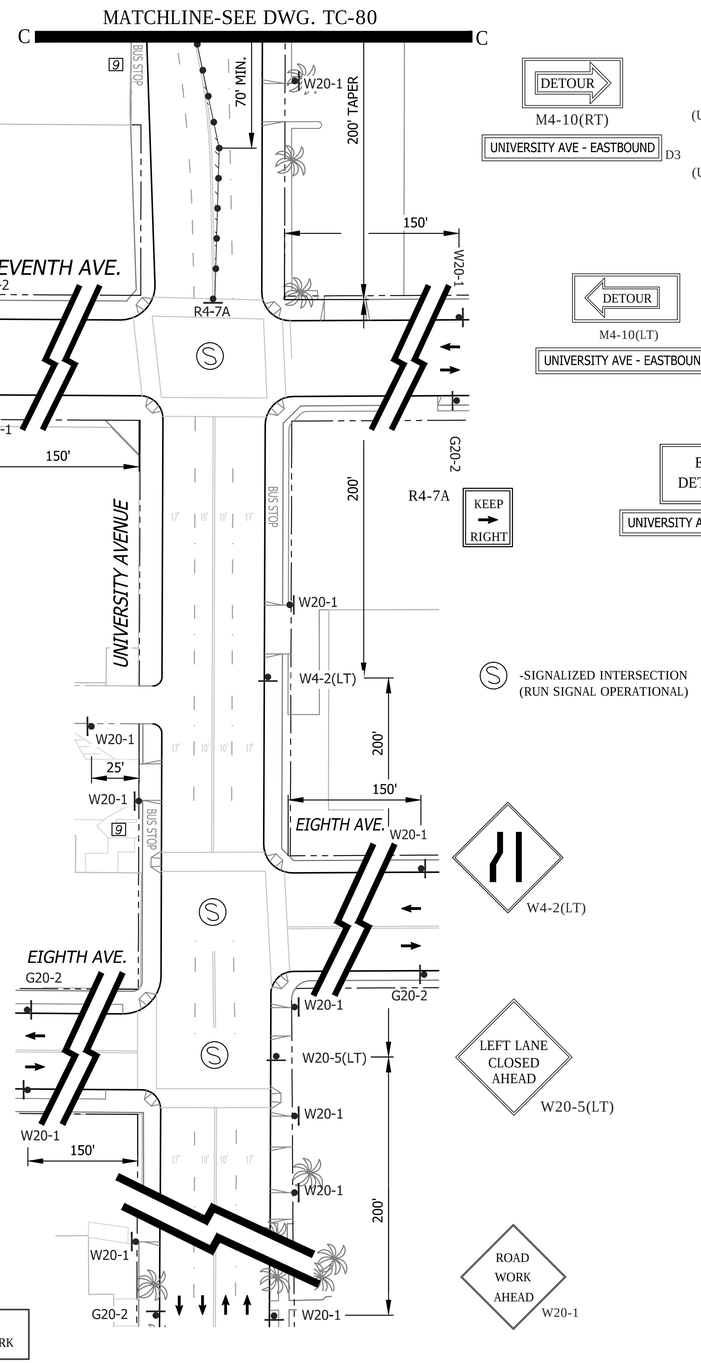
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

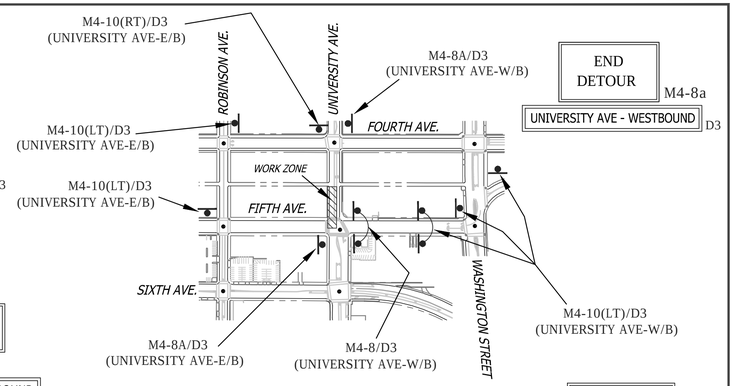
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC- 80
36656-T80-D

PHASE 46 (CONTINUED)







DETOUR ROUTE

FOR DWG.s TC-80 & TC-81

R26 (MOD)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M.

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

TC- 81

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 46

CITY OF SAN DIEGO, CALIFORNIA
SHEET 81 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T81-D

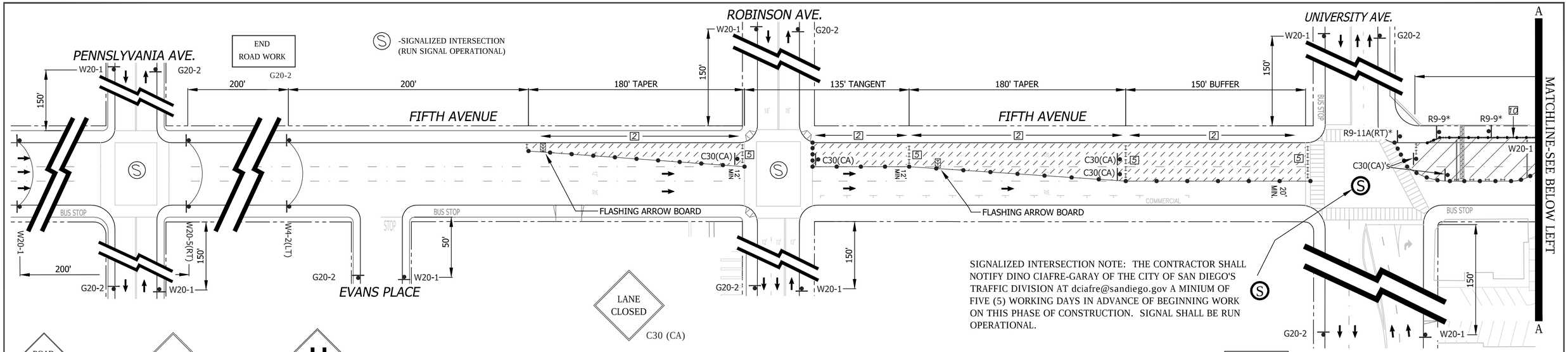
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

DWG NAME: 130601-TC-1A | DATE: 06/12/2014 | BY: DaB

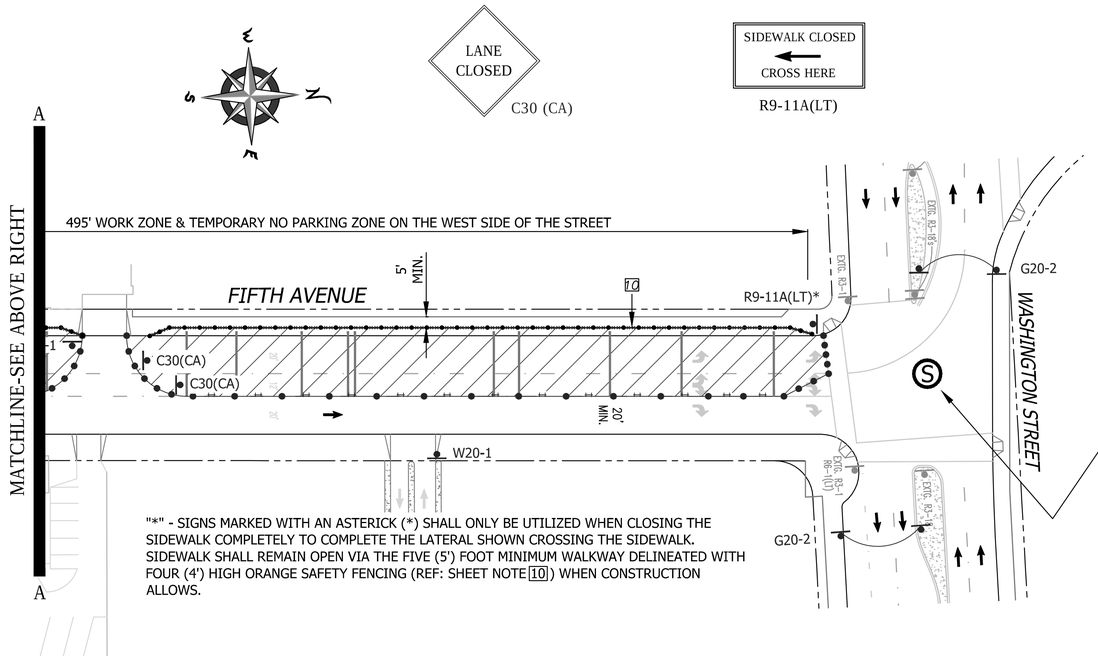
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

PHASE 47

"TYPICAL WORK ZONE FOR THE CONSTRUCTION OF LATERALS ON FIFTH AVENUE BETWEEN ROBINSON AVENUE AND WASHINGTON STREET"



"*" - SIGNS MARKED WITH AN ASTERICK (*) SHALL ONLY BE UTILIZED WHEN CLOSING THE SIDEWALK COMPLETELY TO COMPLETE THE LATERAL SHOWN CROSSING THE SIDEWALK. SIDEWALK SHALL REMAIN OPEN VIA THE FIVE (5') FOOT MINIMUM WALKWAY DELINEATED WITH FOUR (4') HIGH ORANGE SAFETY FENCING (REF: SHEET NOTE [10]) WHEN CONSTRUCTION ALLOWS.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RECALL".

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

[10] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

TC- 82

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
ROBINSON AVENUE TO WASHINGTON AVENUE
PHASE 47

CITY OF SAN DIEGO, CALIFORNIA
SHEET 82 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

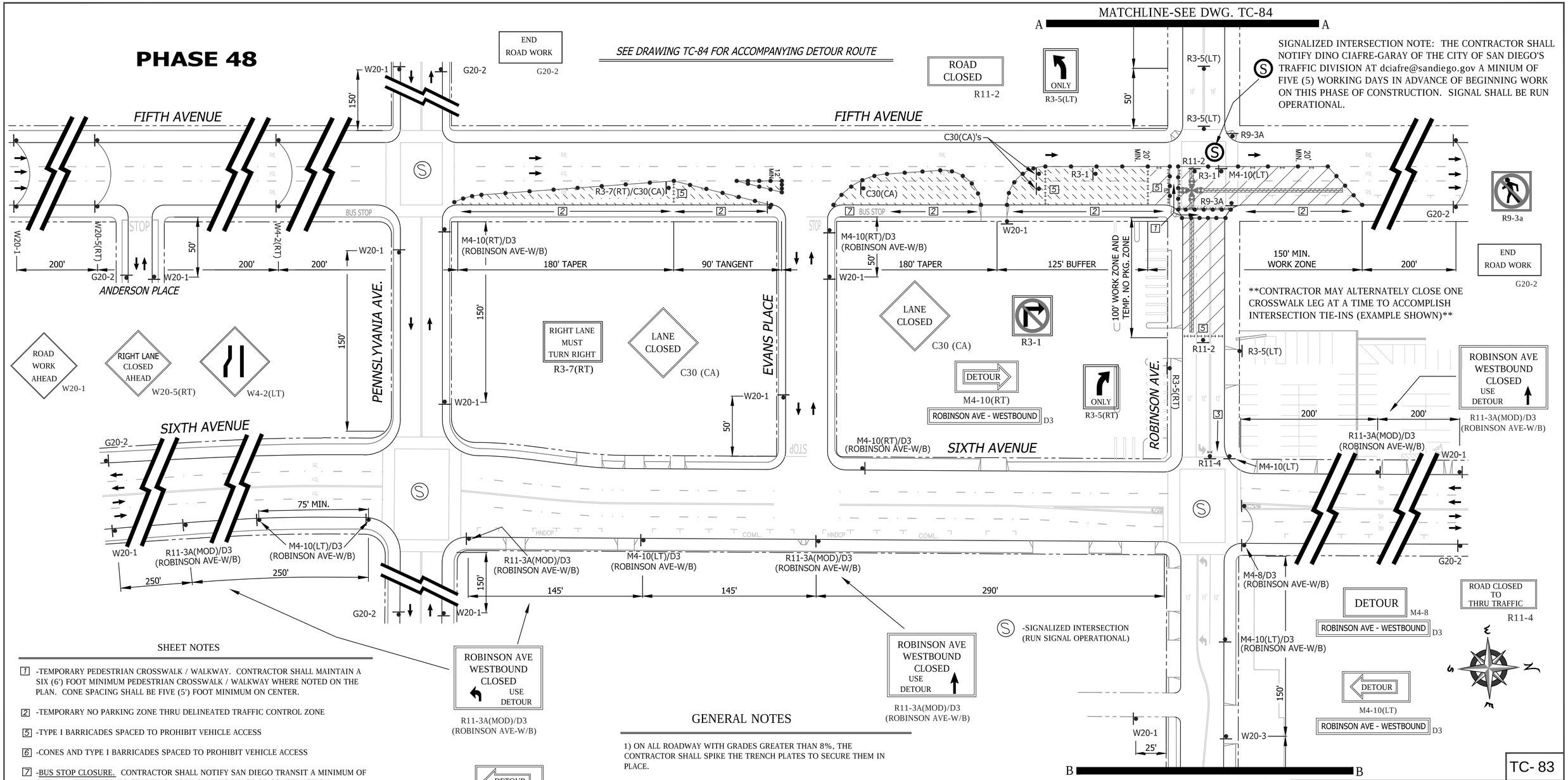
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T82-D

PHASE 48



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	SEE DWG.		150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 48

CITY OF SAN DIEGO, CALIFORNIA
SHEET 83 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

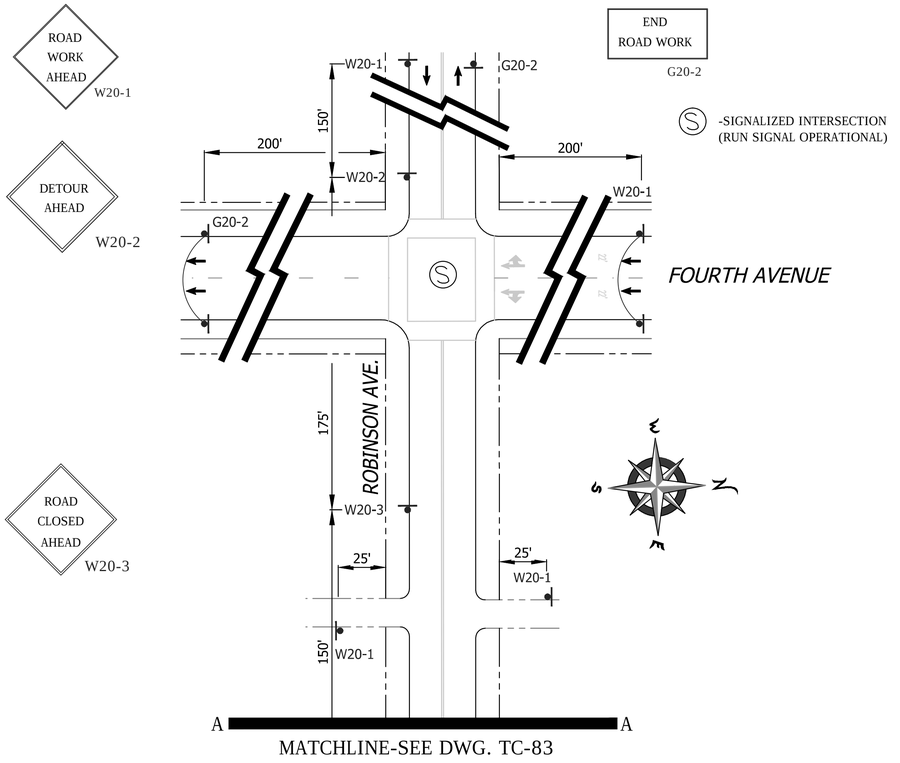
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

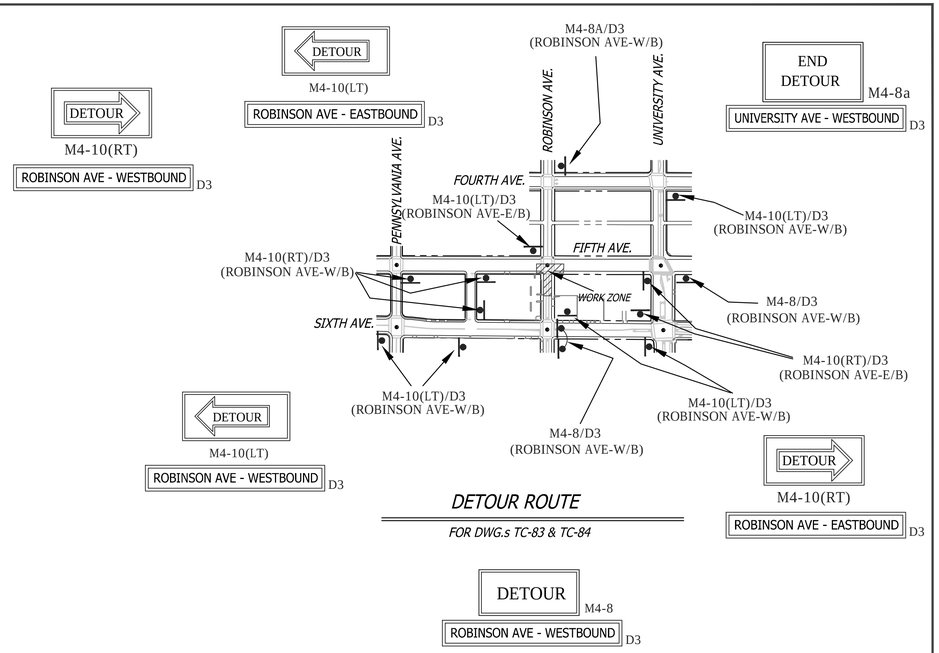
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T83-D

TC- 83



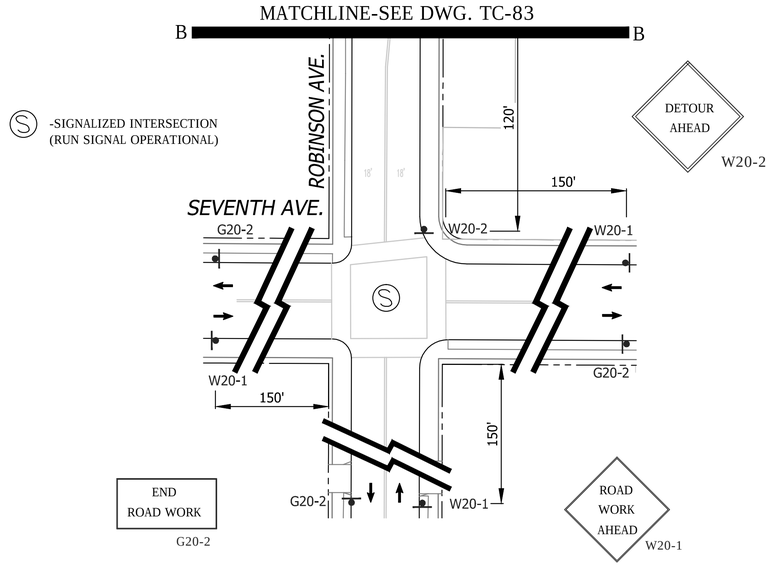
PHASE 48 (CONTINUED)



DETOUR ROUTE

FOR DWG.s TC-83 & TC-84

MATCHLINE-SEE DWG. TC-83



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

TC- 84

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 48

CITY OF SAN DIEGO, CALIFORNIA
SHEET 84 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T84-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

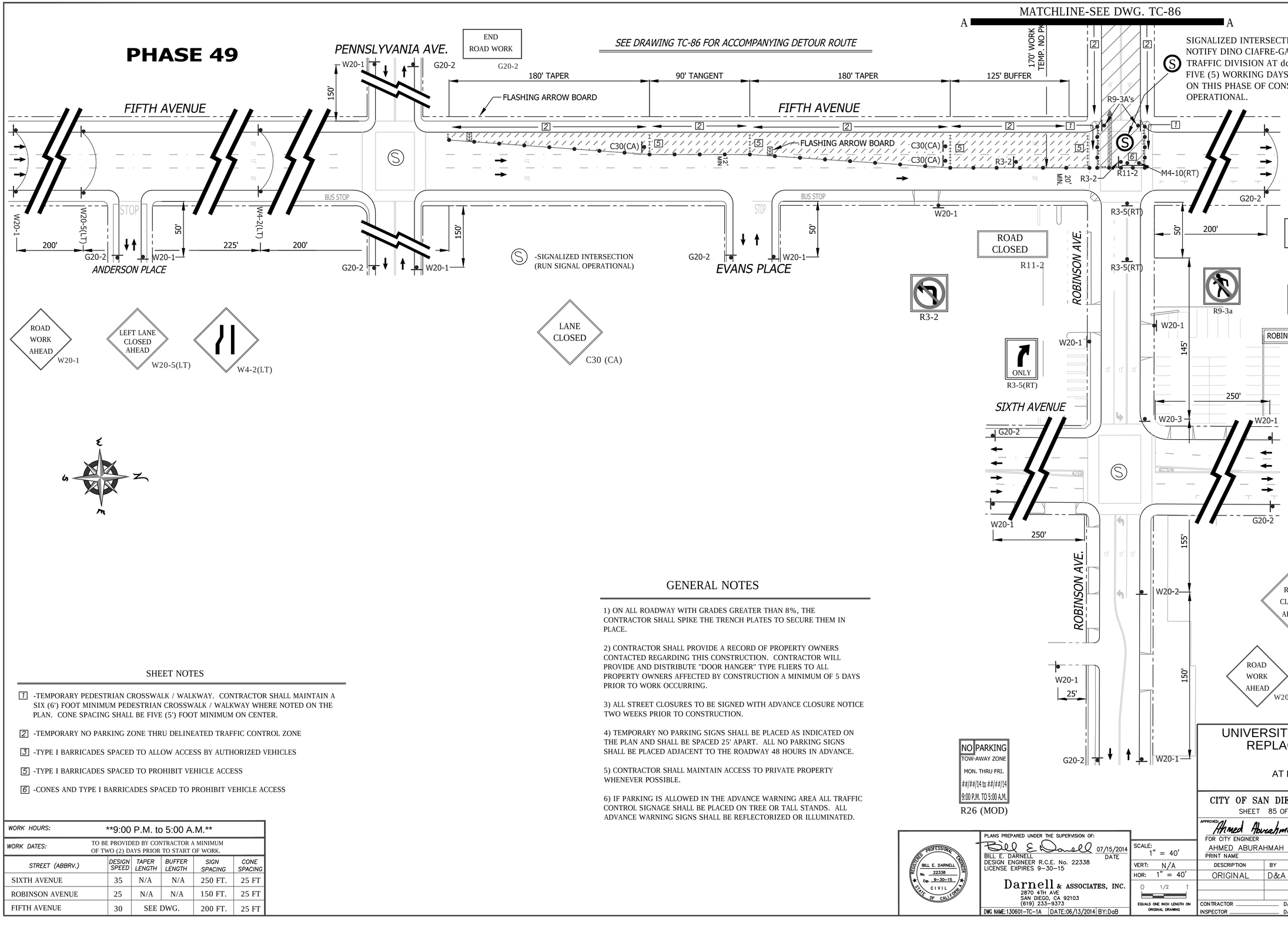
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/13/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 49



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	250 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/13/2014 | BY:DaB

SCALE:
1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 85

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 49

CITY OF SAN DIEGO, CALIFORNIA
SHEET 85 OF 249 SHEETS

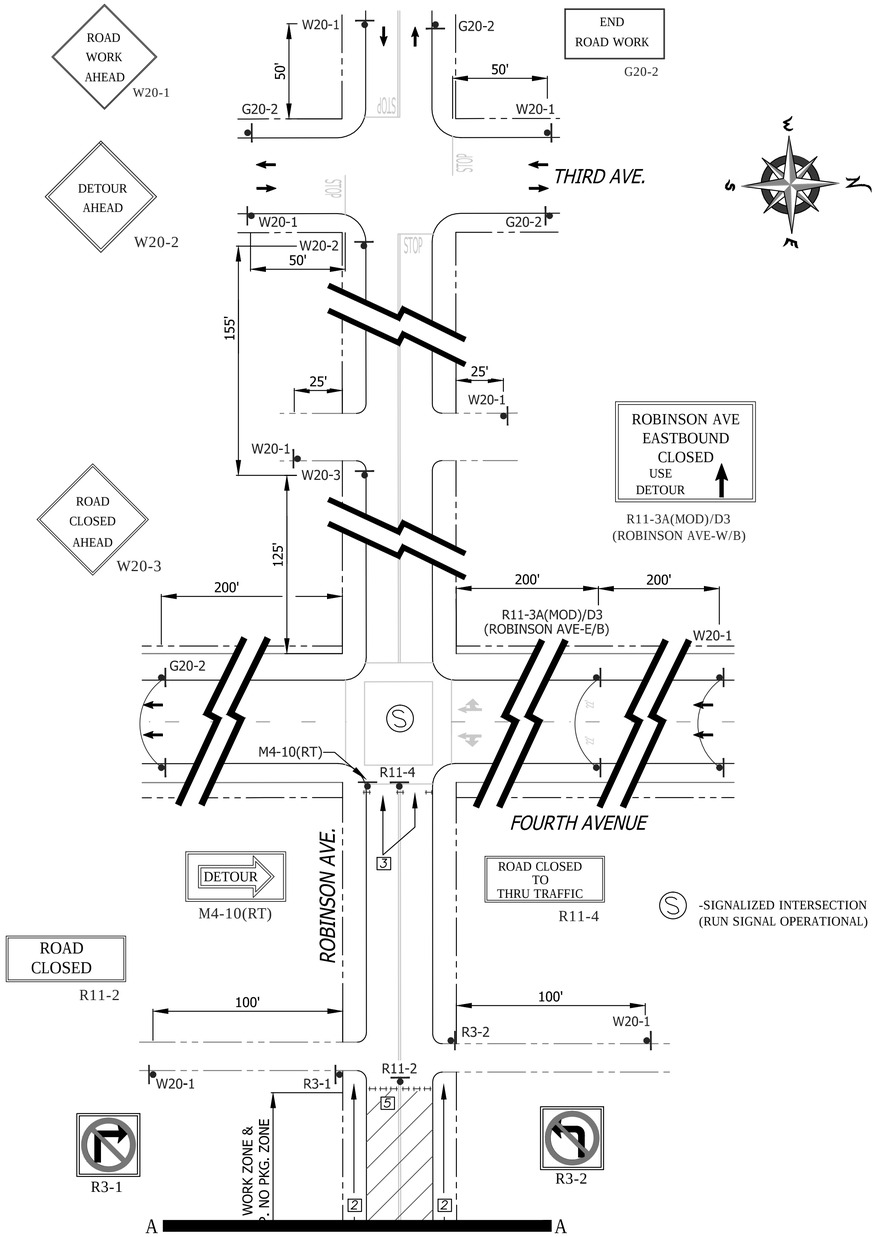
W.B.S.
WATER S-11021

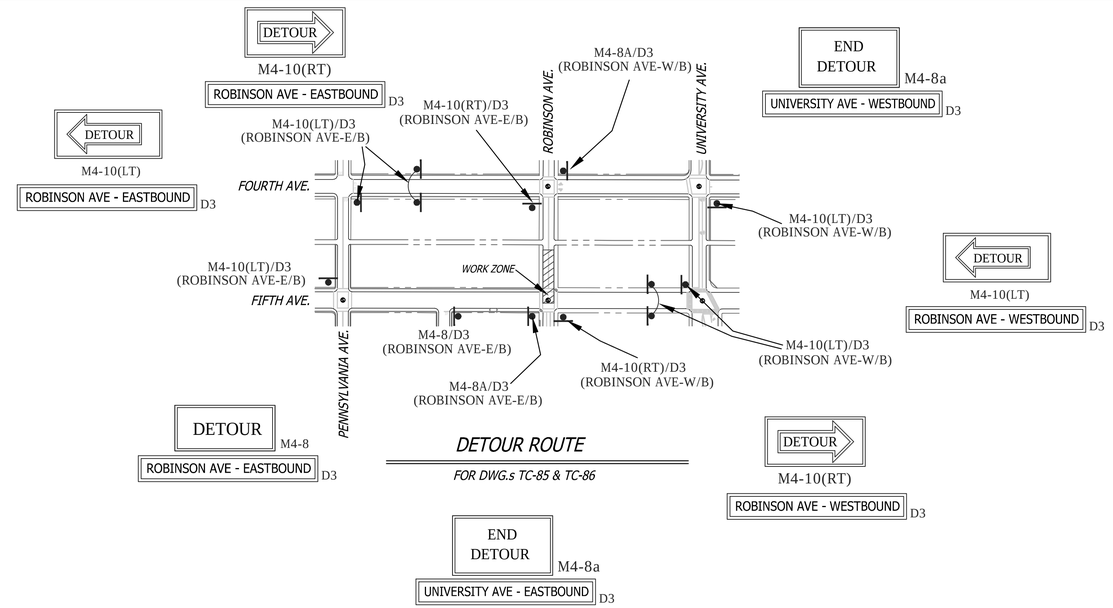
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T85-D

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____





PHASE 49 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FOURTH AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

TC- 86

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 49

CITY OF SAN DIEGO, CALIFORNIA
SHEET 86 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T86-D

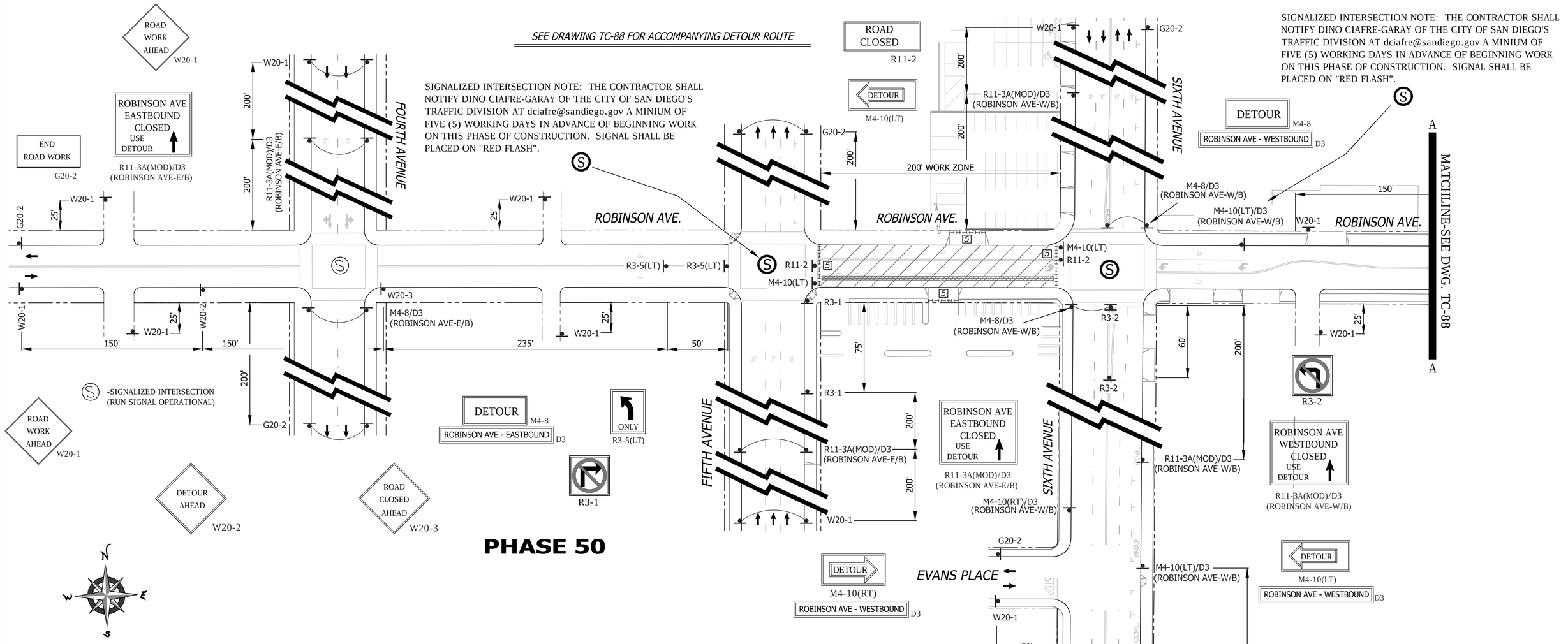
REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/13/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 50

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 87

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
FIFTH AVENUE TO SIXTH AVENUE
PHASE 50

CITY OF SAN DIEGO, CALIFORNIA
SHEET 87 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER AHMED ABURAHMAH PRINT NAME 07/15/2014 DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

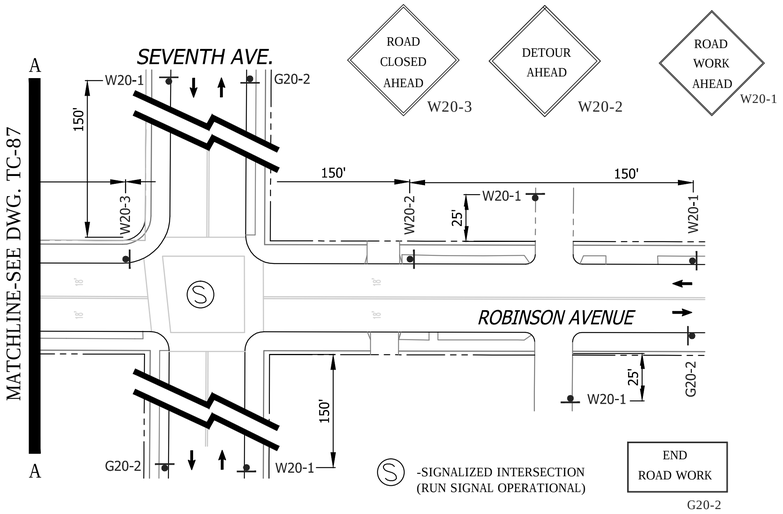
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T87-D

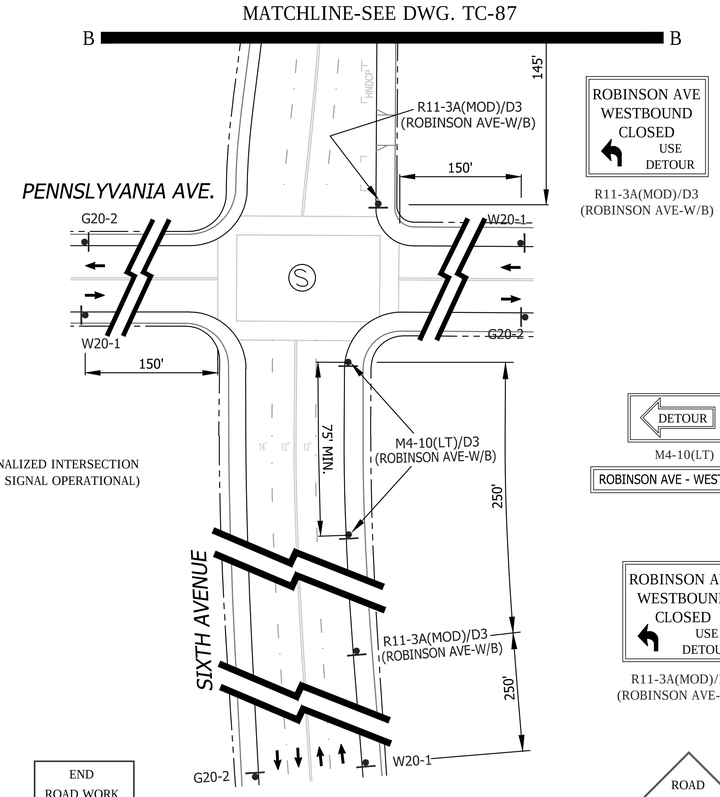
PHASE 50 (CONTINUED)



ROAD CLOSED AHEAD W20-3

DETOUR AHEAD W20-2

ROAD WORK AHEAD W20-1



ROBINSON AVE WESTBOUND CLOSED USE DETOUR

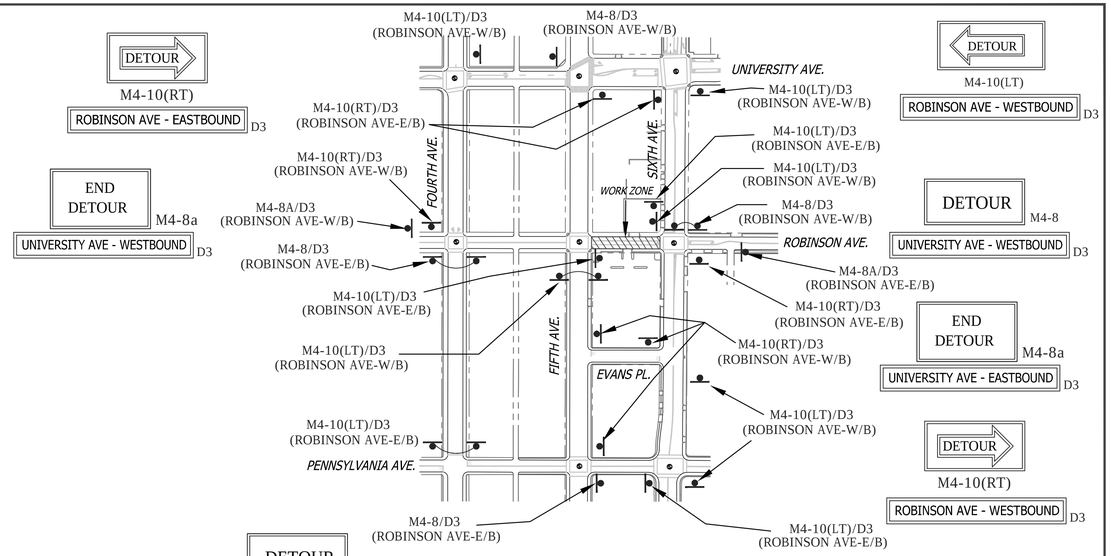
R11-3A(MOD)/D3
(ROBINSON AVE-W/B)

DETOUR
M4-10(LT)
ROBINSON AVE - WESTBOUND D3

ROBINSON AVE WESTBOUND CLOSED USE DETOUR

R11-3A(MOD)/D3
(ROBINSON AVE-W/B)

ROAD WORK AHEAD W20-1



DETOUR ROUTE

FOR DWG.s TC-87 & TC-88

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/13/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 88

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
FIFTH AVENUE TO SIXTH AVENUE
PHASE 50

CITY OF SAN DIEGO, CALIFORNIA
SHEET 88 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T88-D

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

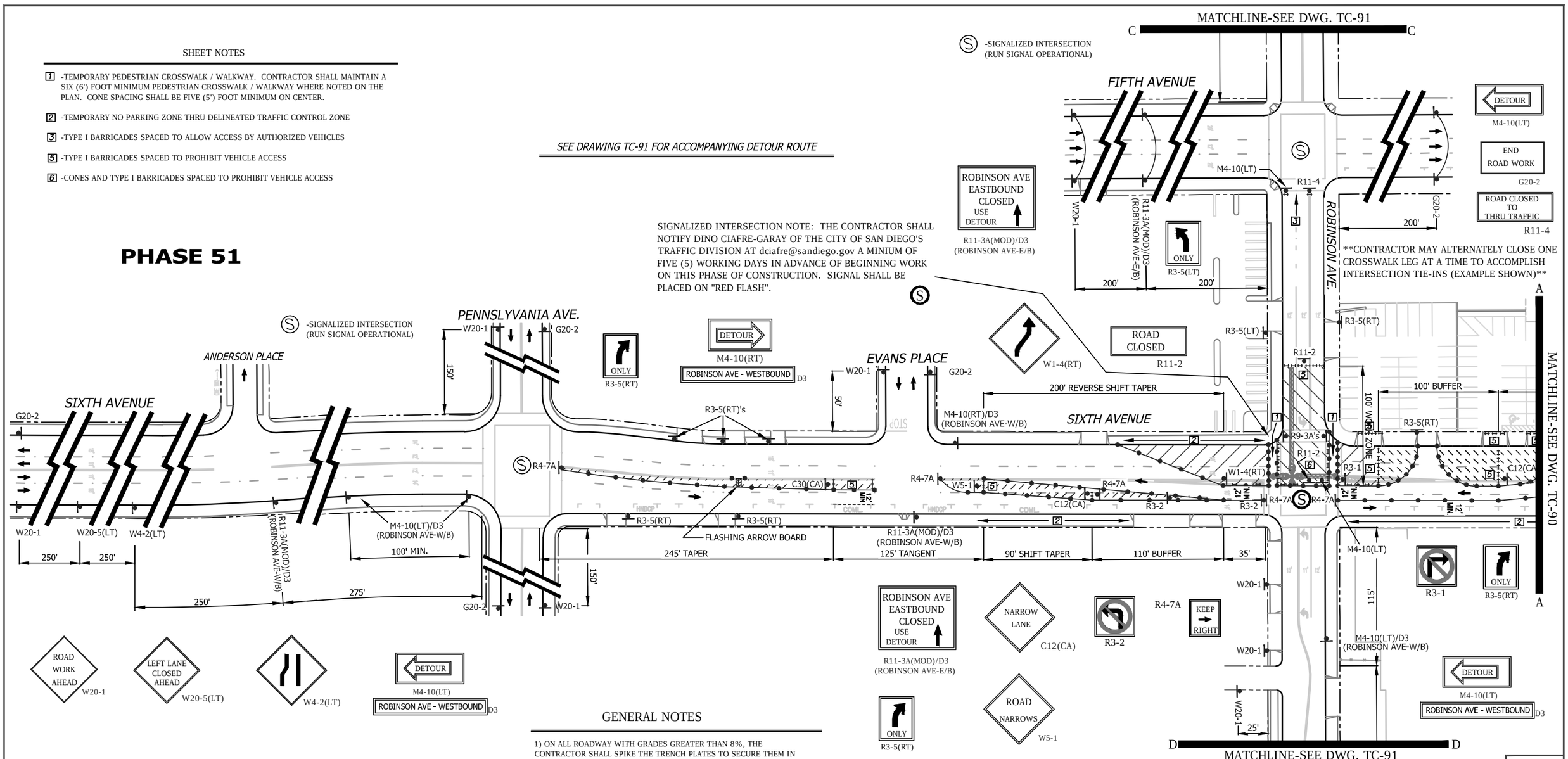
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SEE DRAWING TC-91 FOR ACCOMPANYING DETOUR ROUTE

PHASE 51

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 235-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 89

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 51

CITY OF SAN DIEGO, CALIFORNIA
SHEET 89 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

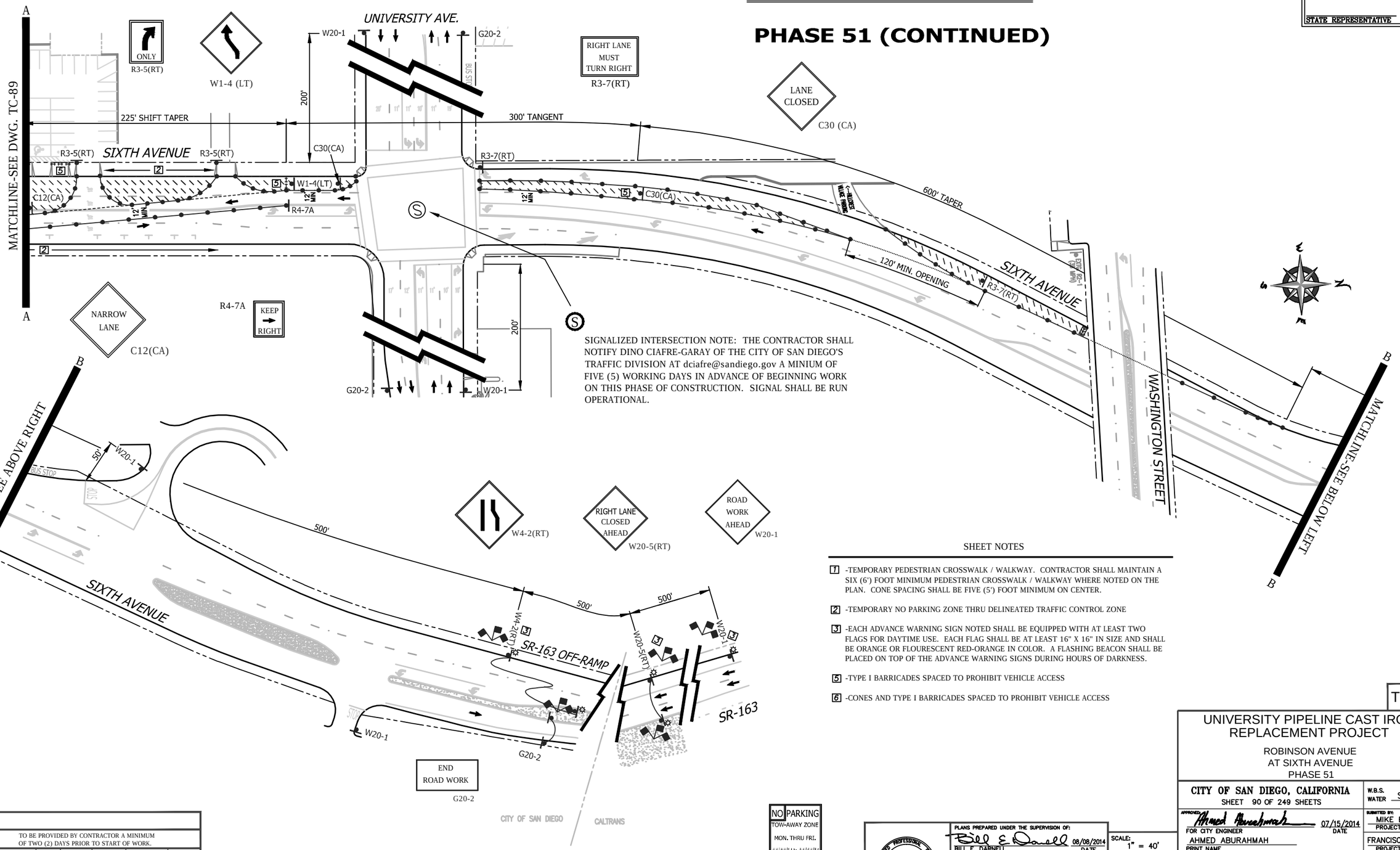
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED
36656-T89-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-91 FOR ACCOMPANYING DETOUR ROUTE

PHASE 51 (CONTINUED)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SR-163 OFF RAMP	50	SEE DWG.		500 FT.	25 FT
UNIVERSITY AVE.	30	N/A	N/A	200 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 90

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 51

CITY OF SAN DIEGO, CALIFORNIA
SHEET 90 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

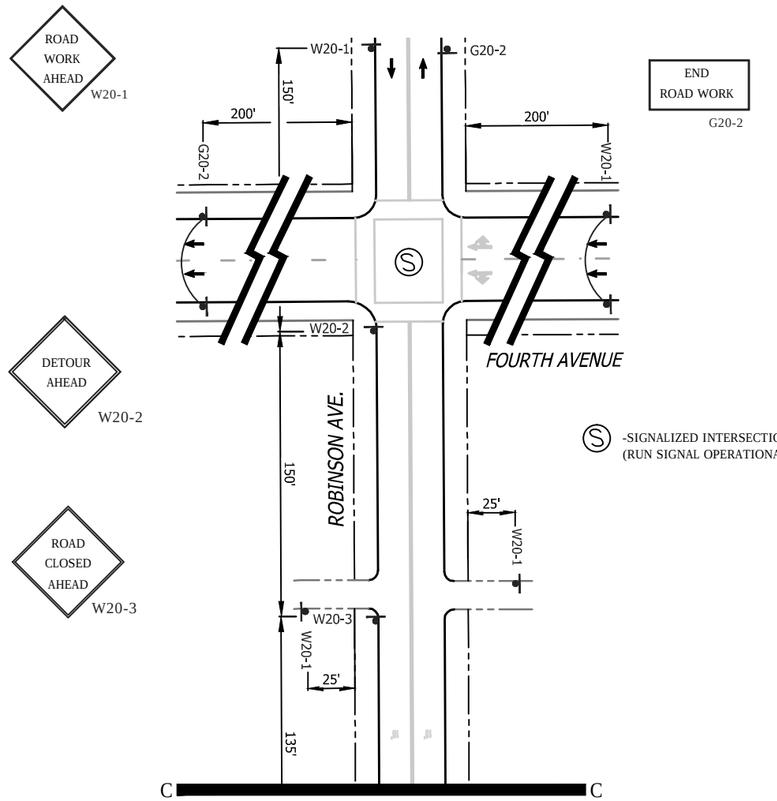
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

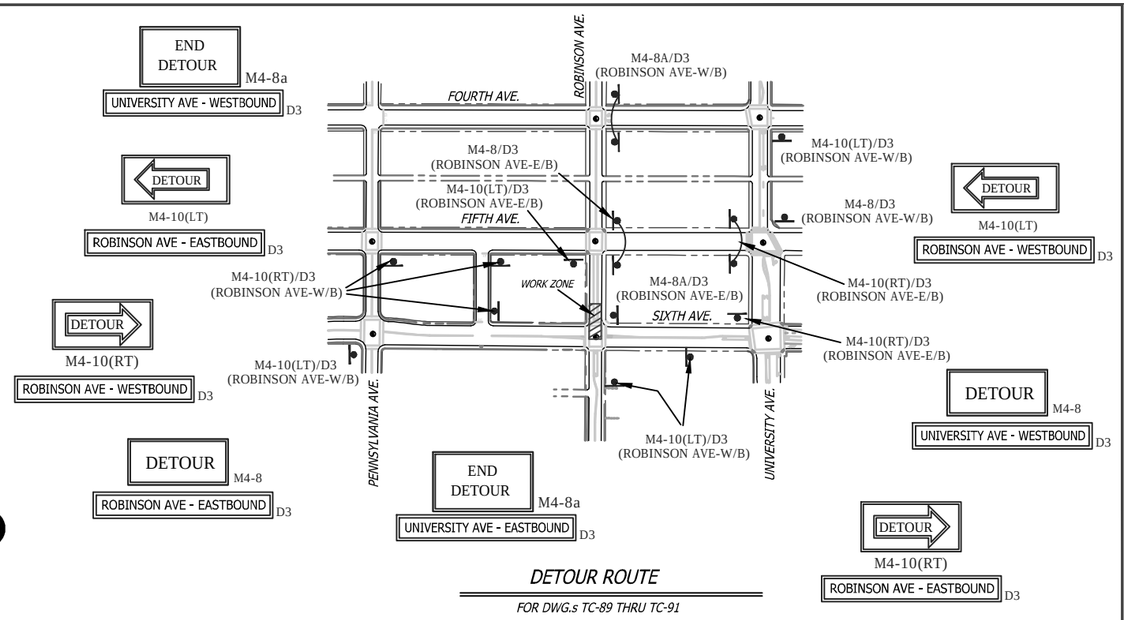
36656-T90-D



END ROAD WORK
G20-2

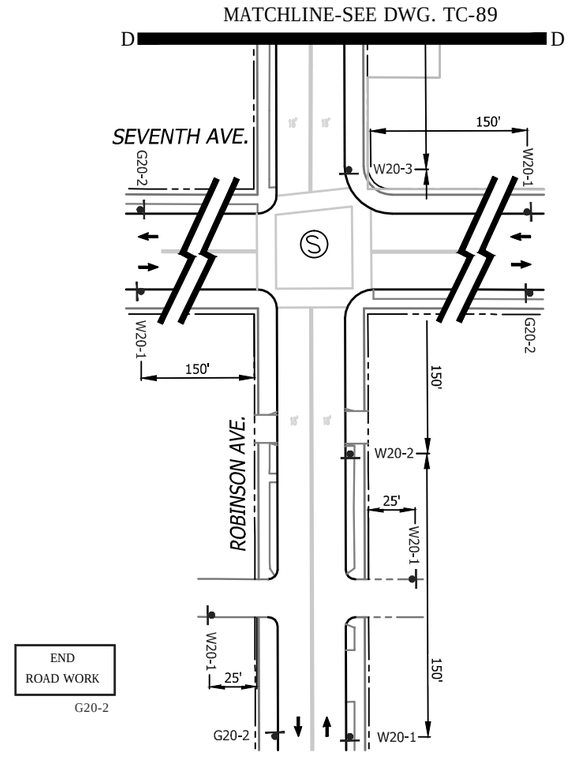
-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PHASE 51 (CONTINUED)



DETOUR ROUTE

FOR DWG.s TC-89 THRU TC-91



END ROAD WORK
G20-2

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ROAD CLOSED AHEAD
W20-3

DETOUR AHEAD
W20-2

ROAD WORK AHEAD
W20-1

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 91

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 51

CITY OF SAN DIEGO, CALIFORNIA
SHEET 91 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T91-D

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

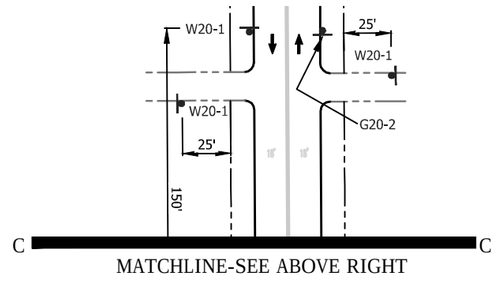
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

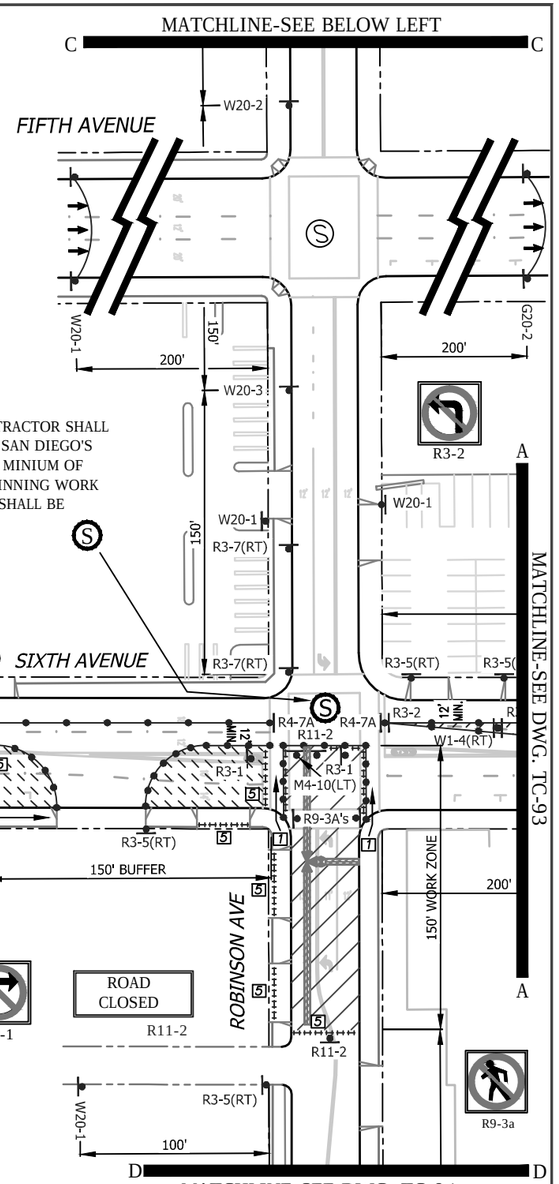
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

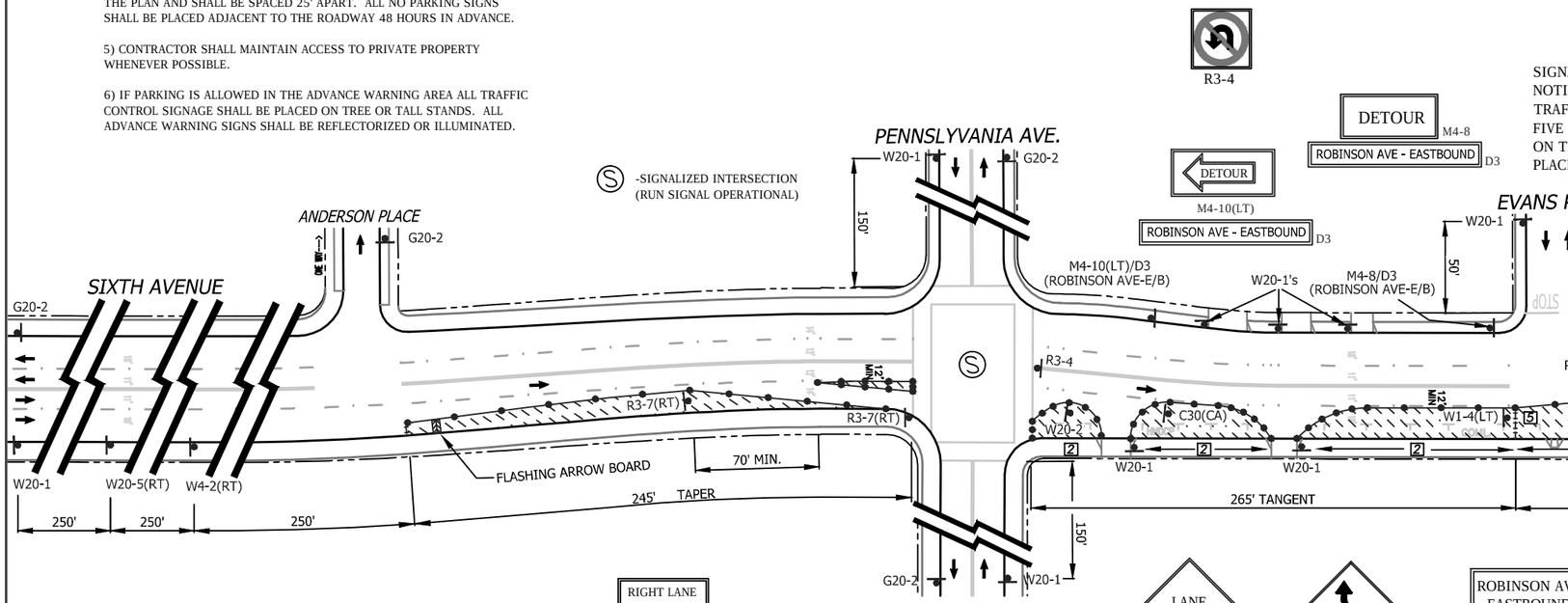
PHASE 52

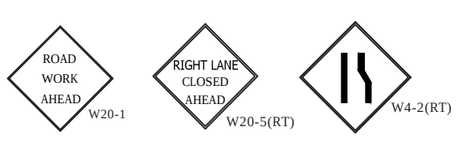
SEE DRAWING TC-94 FOR ACCOMPANYING DETOUR ROUTE

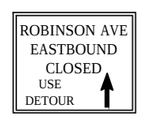


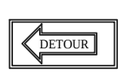


SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".









SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

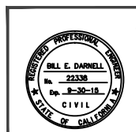
2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT



PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DoB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 92 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: FOR CITY ENGINEER AHMED ABURAHMAH PRINT NAME — DATE 07/15/2014

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1719 CCS27 COORDINATE
185044–6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T92-D

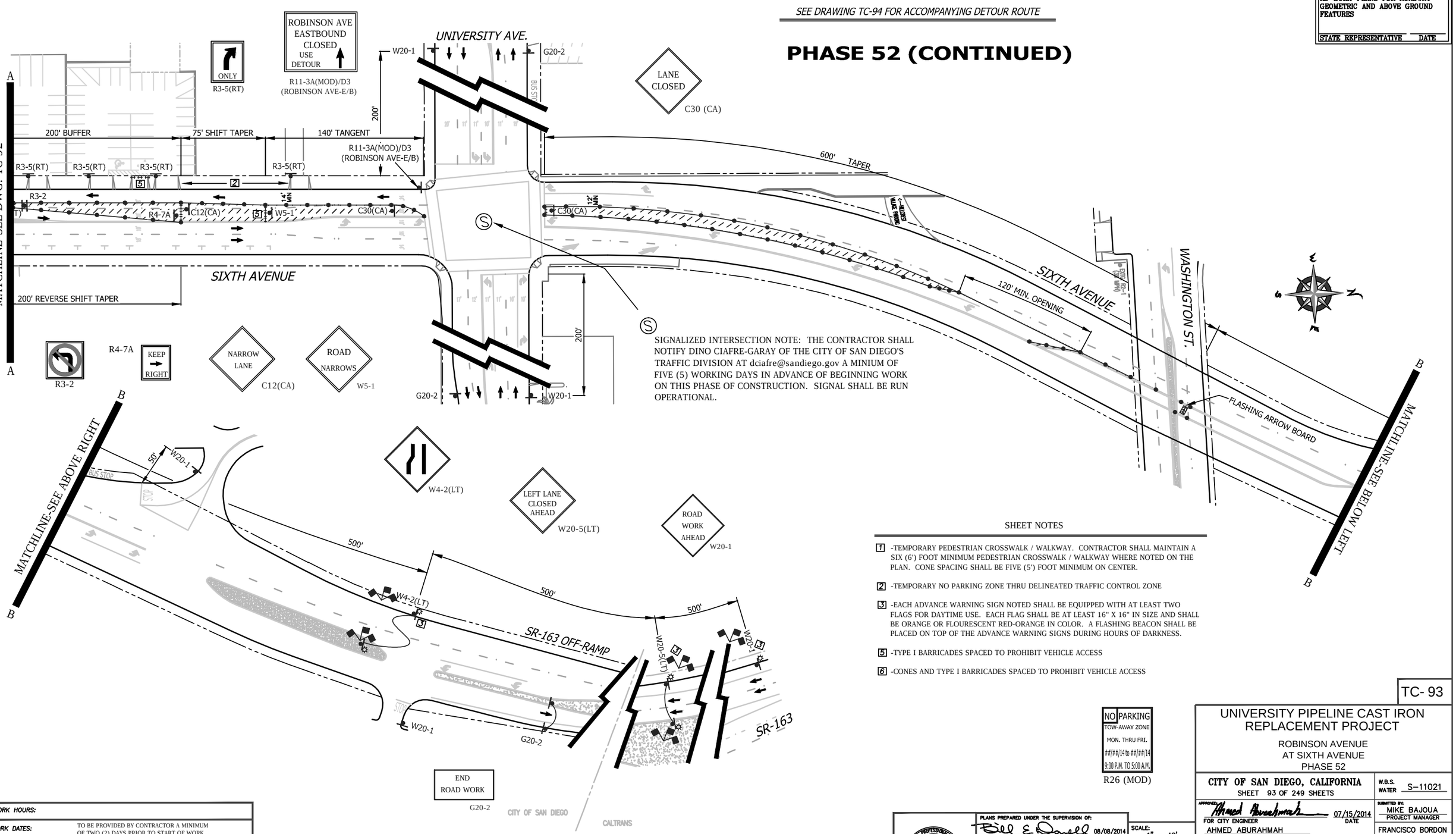
TC- 92

PERMIT NUMBER 11-14-NUJ-0042
CO: SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-94 FOR ACCOMPANYING DETOUR ROUTE

PHASE 52 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SR-163 OFF RAMP	50	SEE DWG.		500 FT.	25 FT
UNIVERSITY AVE.	30	N/A	N/A	200 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 93

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 93 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

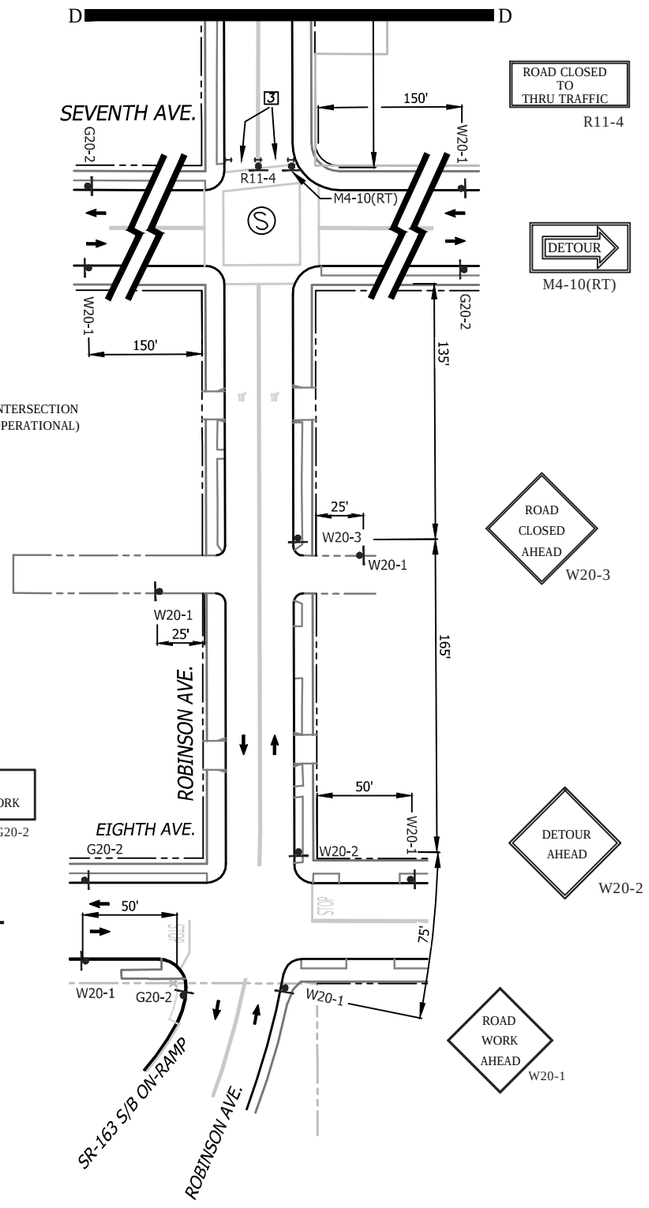
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T93-D

PHASE 52 (CONTINUED)

Ⓢ -SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)



END ROAD WORK
G20-2

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

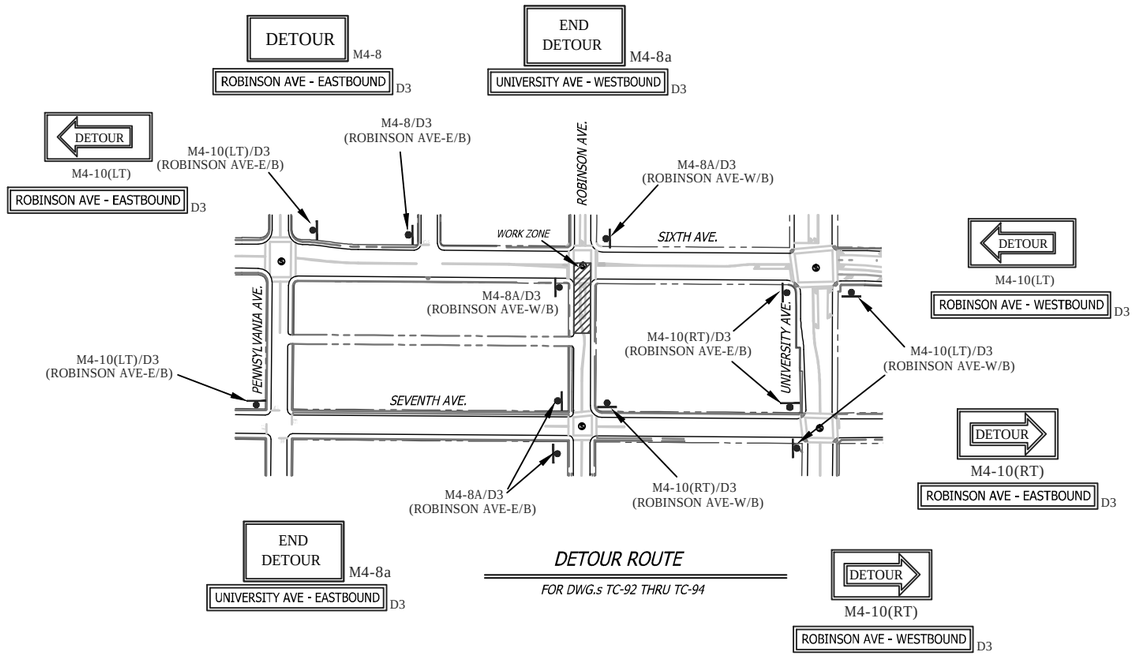
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	SEE DWG.	25 FT



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 94

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 94 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T94-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 53

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PERMIT NUMBER 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

ROBINSON AVE EASTBOUND CLOSED USE DETOUR
R11-3A(MOD)/D3 (ROBINSON AVE-E/B)

SIDEWALK CLOSED CROSS HERE
R9-11A(RT)

SIDEWALK CLOSED
R9-9

ROAD CLOSED
R11-2

WORK ZONE & TEMPORARY NO PARKING ZONE

SIDEWALK CLOSED CROSS HERE
R9-11A(LT)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.
R26 (MOD)

MATCHLINE-SEE BELOW LEFT

MATCHLINE-SEE ABOVE RIGHT

ROBINSON AVE.
SIXTH AVENUE
FIFTH AVENUE
SEVENTH AVE.
EVANS PLACE
PENNSLYVANIA AVE.
EIGHTH AVE.

ROAD WORK AHEAD W20-1
DETOUR AHEAD W20-2
ROAD CLOSED AHEAD W20-3
RIGHT LANE MUST TURN RIGHT R3-7(RT)
ALLEY CLOSED R11-2(ALLEY)
ALLEY CLOSED TO THRU TRAFFIC R11-4(ALLEY)
DETOUR M4-8 ROBINSON AVE - WESTBOUND D3

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

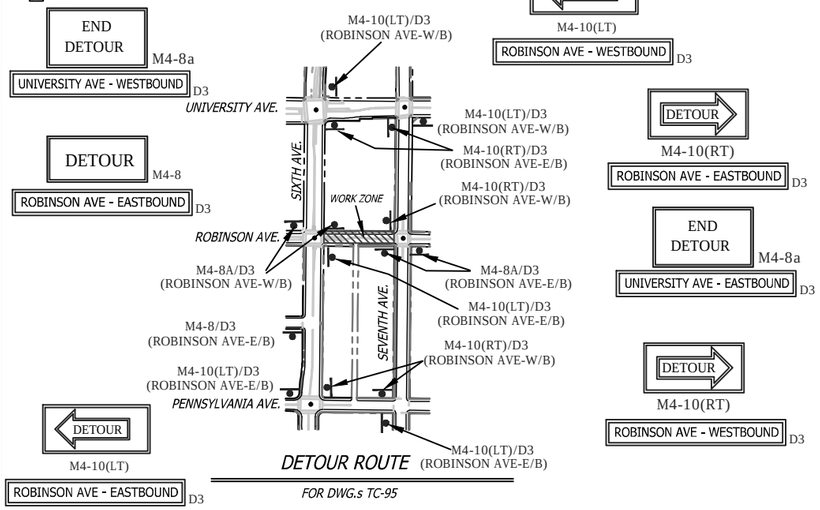
2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

END DETOUR M4-8a UNIVERSITY AVE - WESTBOUND D3
DETOUR M4-8 ROBINSON AVE - EASTBOUND D3
DETOUR M4-10(LT) ROBINSON AVE - EASTBOUND D3
DETOUR M4-10(LT) ROBINSON AVE - WESTBOUND D3
DETOUR M4-10(RT) ROBINSON AVE - EASTBOUND D3
END DETOUR M4-8a UNIVERSITY AVE - EASTBOUND D3
DETOUR M4-10(RT) ROBINSON AVE - WESTBOUND D3



DETOUR ROUTE FOR DWG.s TC-95

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT

TC- 95

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
SIXTH AVENUE TO SEVENTH AVENUE
PHASE 53

CITY OF SAN DIEGO, CALIFORNIA
SHEET 95 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED
36656-T95-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

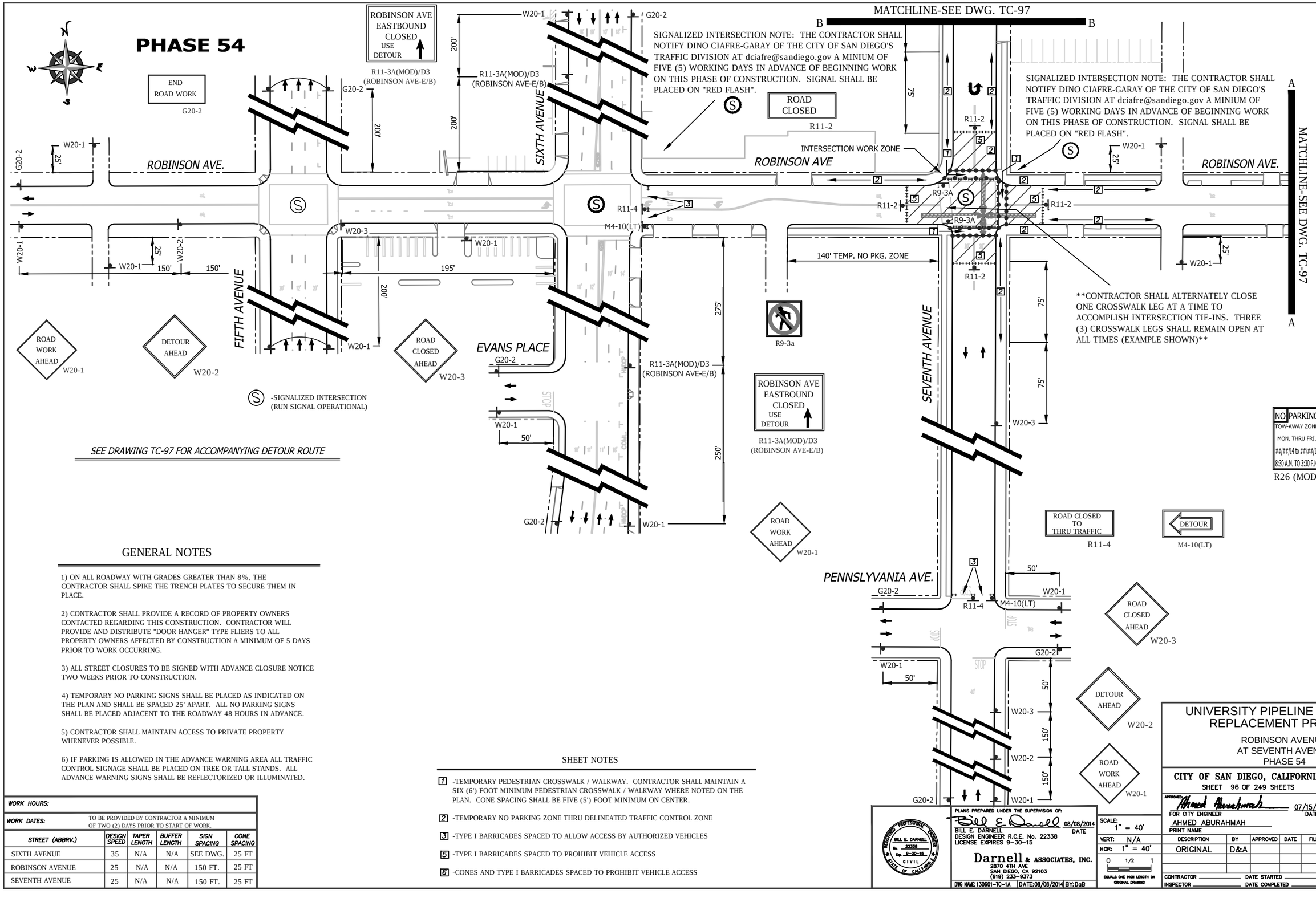
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 54



SEE DRAWING TC-97 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 96

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SEVENTH AVENUE
PHASE 54

CITY OF SAN DIEGO, CALIFORNIA
SHEET 96 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER
210–1719 CCS27 COORDINATE
185044–6280407 CCS83 COORDINATE
36656-T96-D

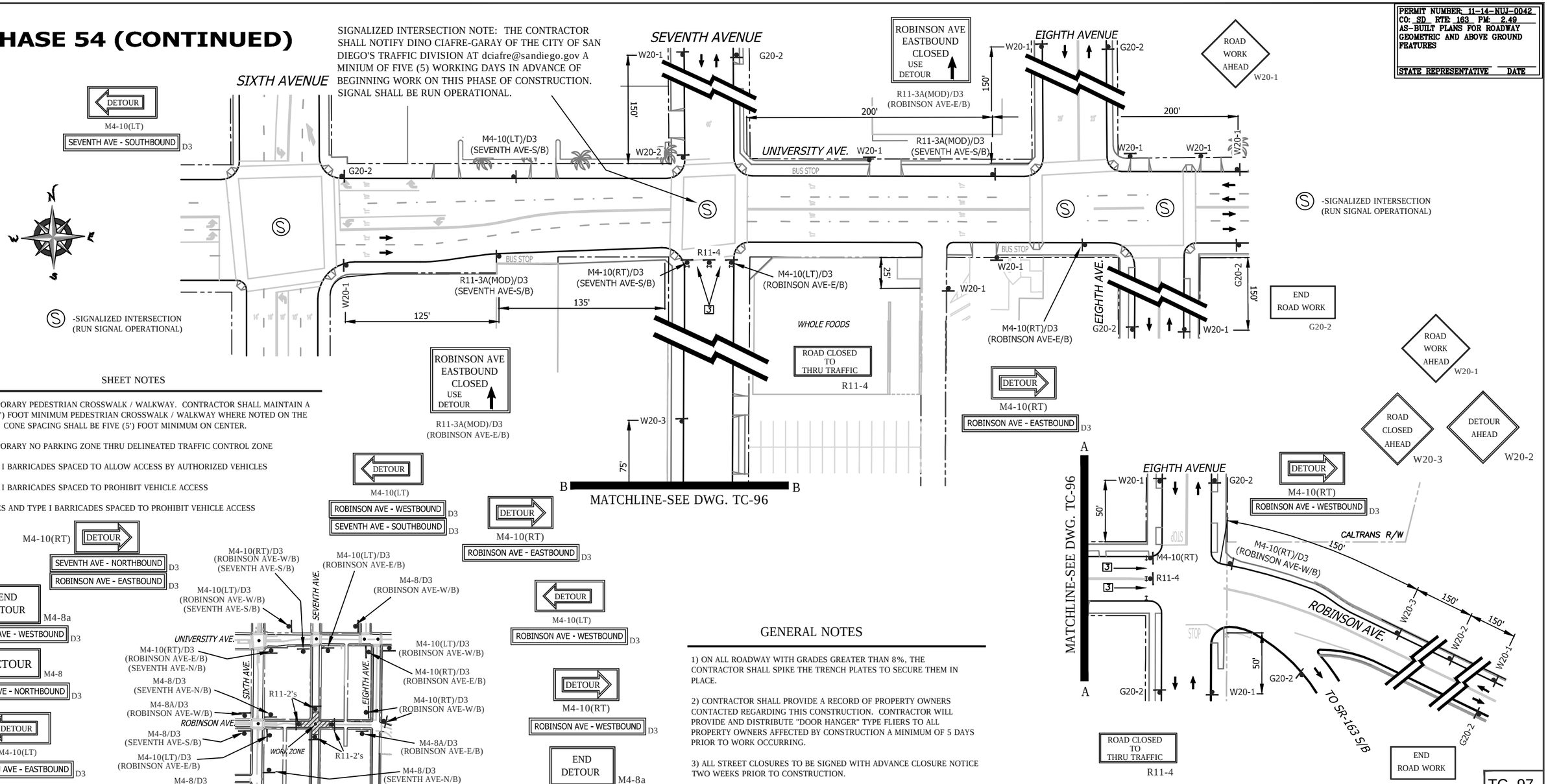
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 54 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

PERMIT NUMBER 11-14-NUI-0042
CO. SD RTE. 163 PM. 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE



SHEET NOTES

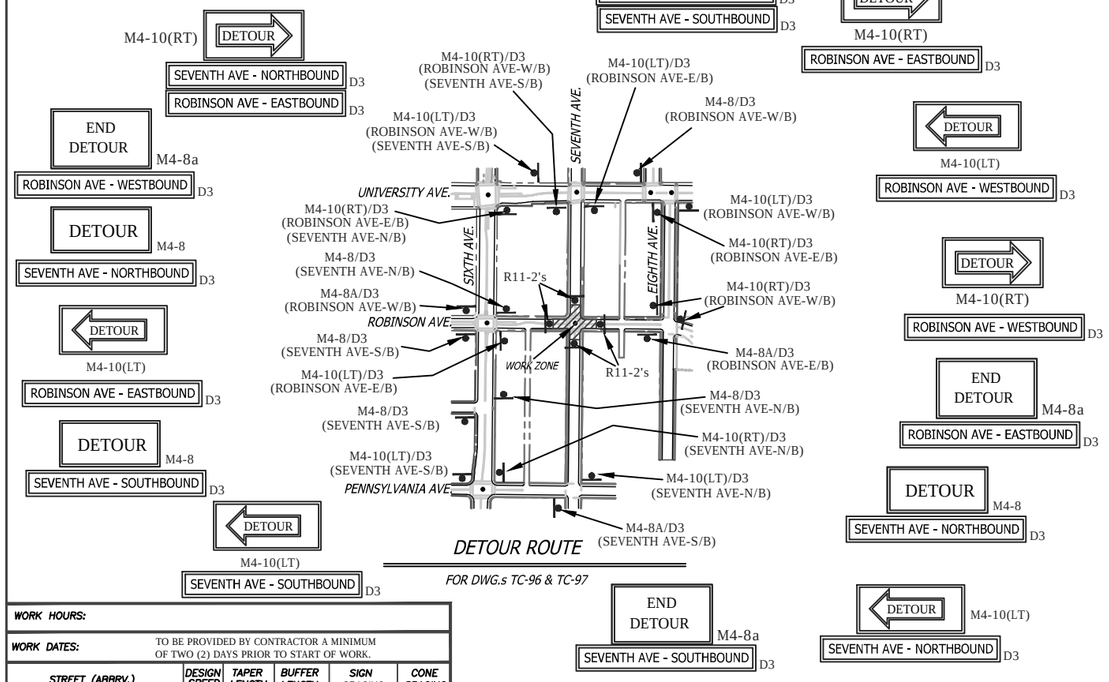
1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC- 97

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SEVENTH AVENUE
PHASE 54

CITY OF SAN DIEGO, CALIFORNIA
SHEET 97 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

CCS27 COORDINATE
CCS83 COORDINATE

36656-T97-D

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

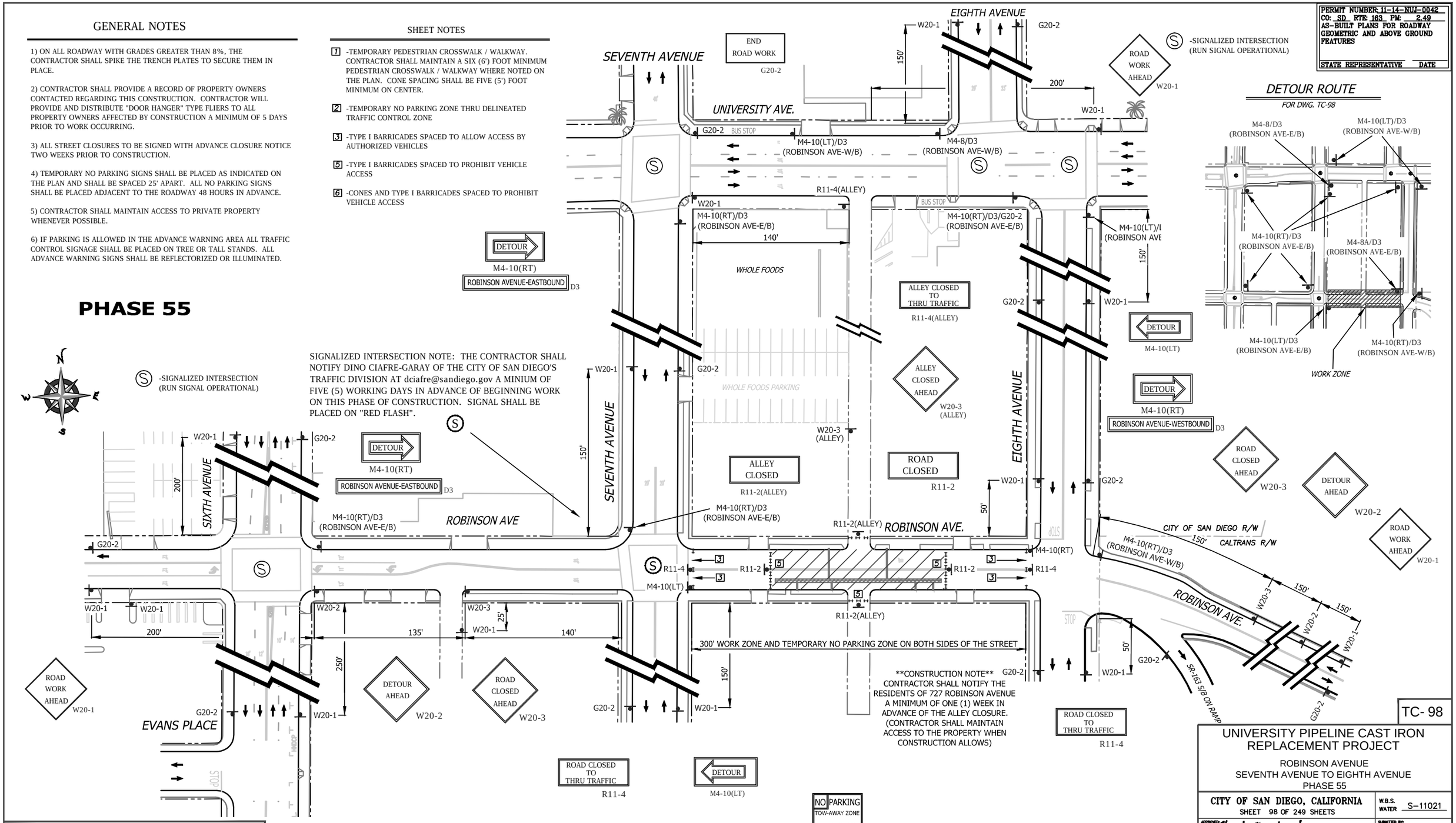
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 55

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



CONSTRUCTION NOTE CONTRACTOR SHALL NOTIFY THE RESIDENTS OF 727 ROBINSON AVENUE A MINIMUM OF ONE (1) WEEK IN ADVANCE OF THE ALLEY CLOSURE. (CONTRACTOR SHALL MAINTAIN ACCESS TO THE PROPERTY WHEN CONSTRUCTION ALLOWS)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

DETOUR ROUTE

FOR DWG. TC-98

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

PERMIT NUMBER 11-14-NUJ-0042
CO. SD RTE 163 PM 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

TC- 98

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
SEVENTH AVENUE TO EIGHTH AVENUE
PHASE 55

CITY OF SAN DIEGO, CALIFORNIA
SHEET 98 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T98-D

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

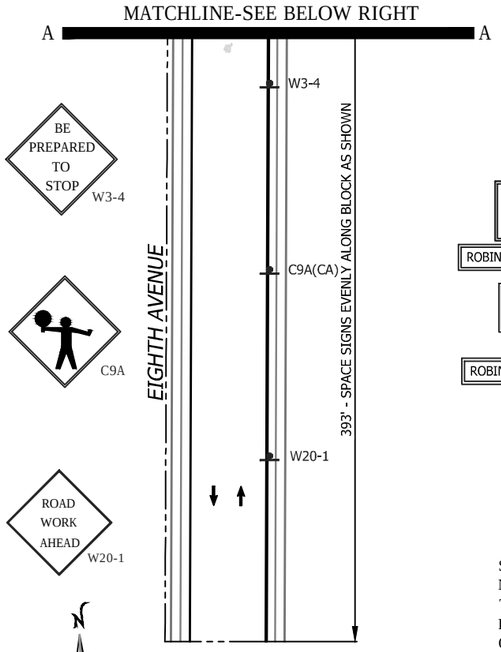
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

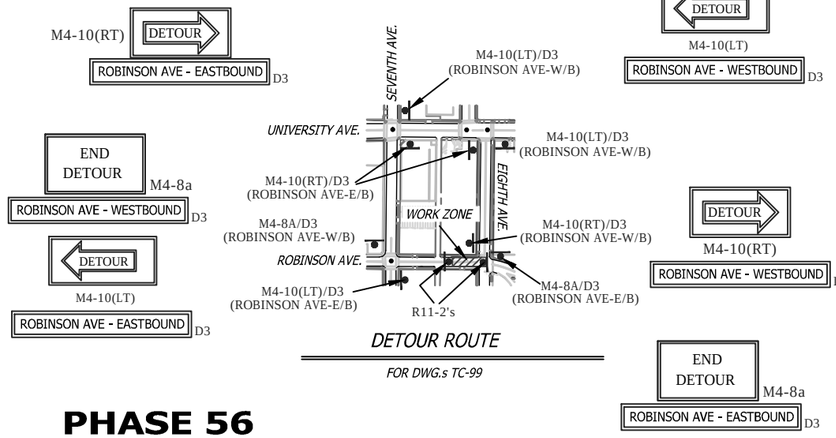
PERMIT NUMBER 11-14-NUJ-0042
CO. SD RTE. 163 PM. 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

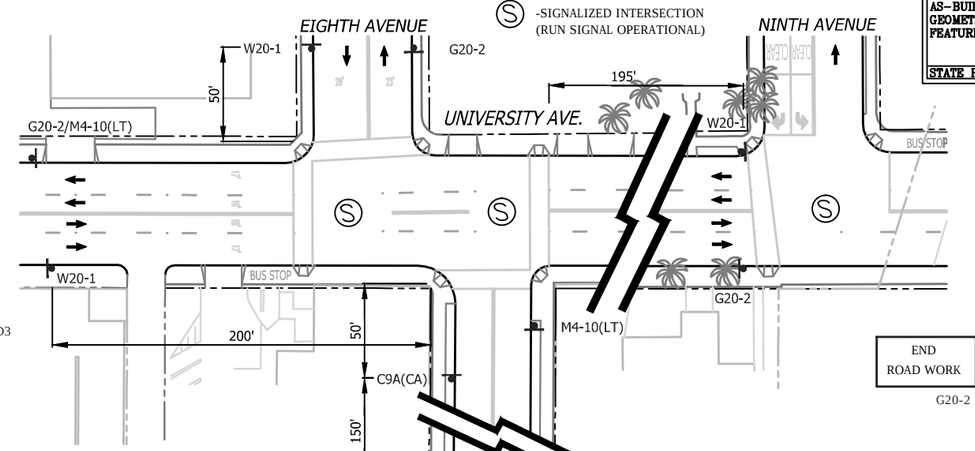
STATE REPRESENTATIVE DATE

PHASE 56

MATCHLINE-SEE BELOW RIGHT



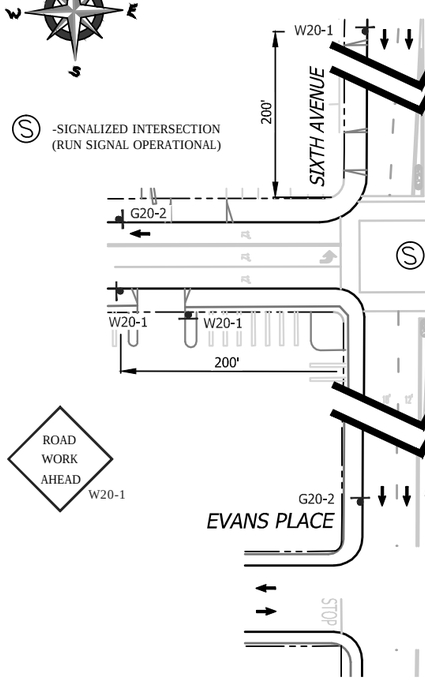


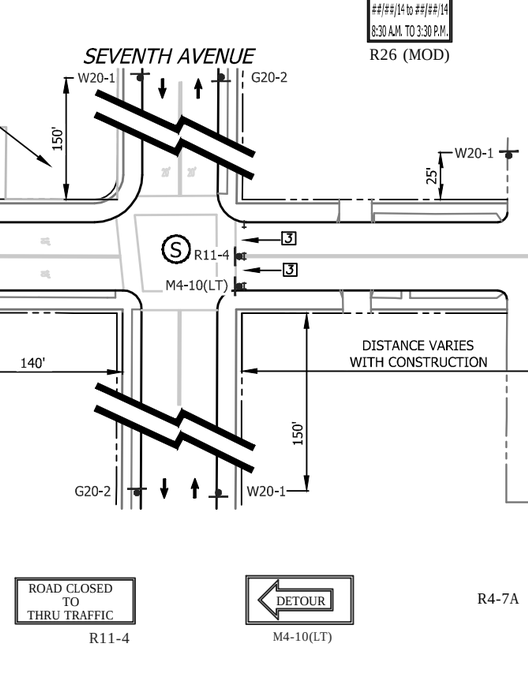


PHASE 56

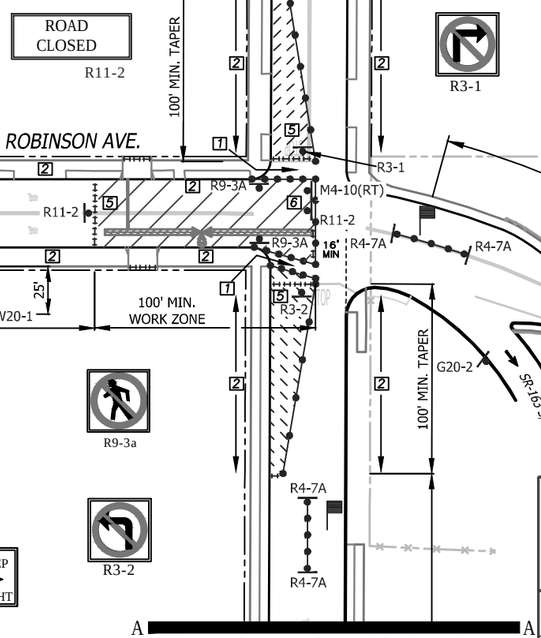
EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

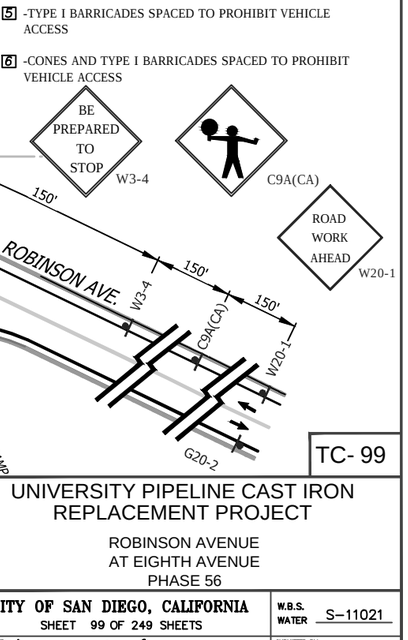
SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.





R26 (MOD)





SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:07/31/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 99

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT EIGHTH AVENUE
PHASE 56

CITY OF SAN DIEGO, CALIFORNIA
SHEET 99 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

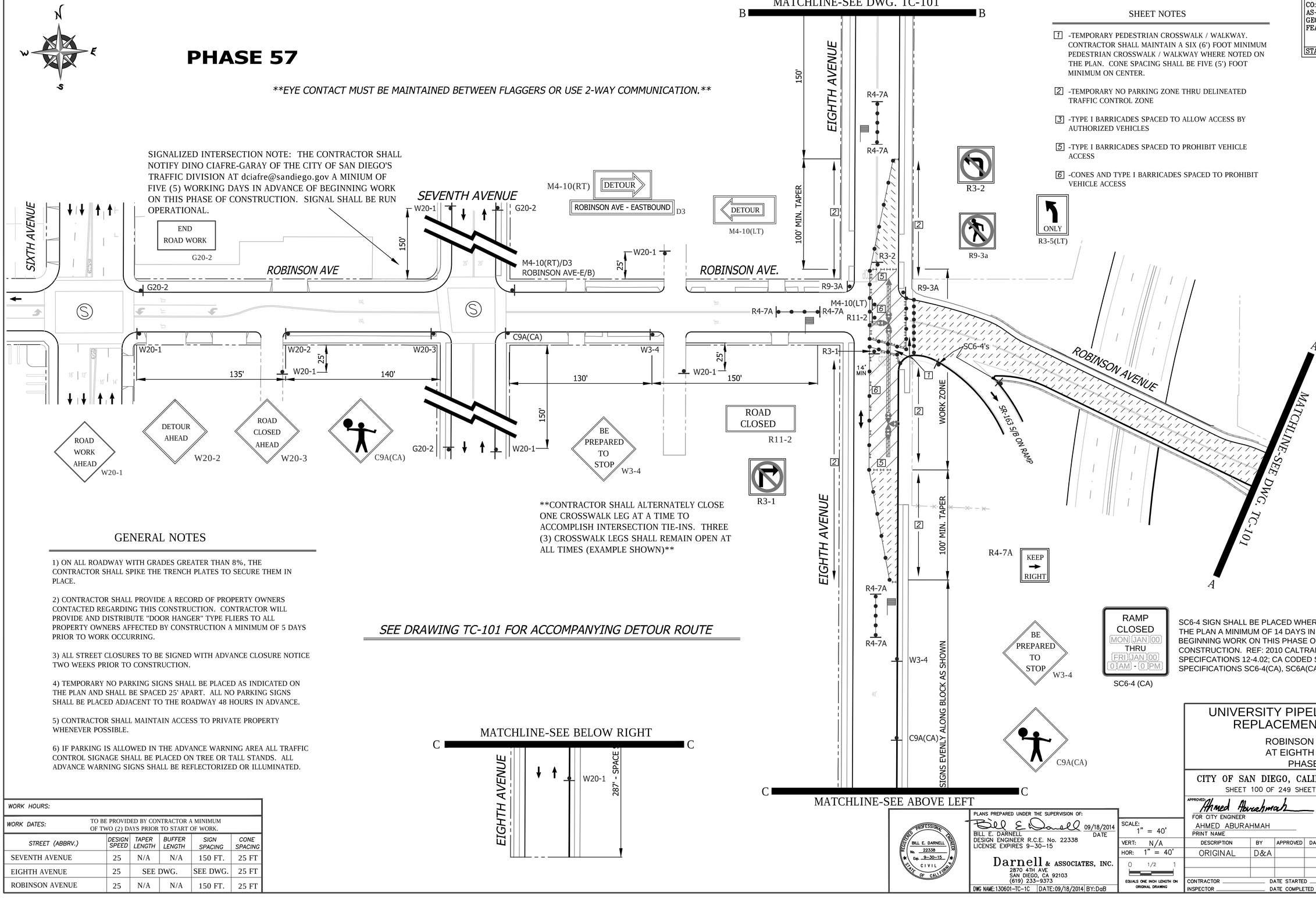
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T99-D

PHASE 57

EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.



CONTRACTOR SHALL ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS. THREE (3) CROSSWALK LEGS SHALL REMAIN OPEN AT ALL TIMES (EXAMPLE SHOWN)

SEE DRAWING TC-101 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PERMIT NUMBER: 11-14-NUI-0042	
CO: SD	RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES	
STATE REPRESENTATIVE	DATE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

RAMP CLOSED
MON JAN 00
THRU
FRI JAN 00
0 AM - 0 PM
SC6-4 (CA)

SC6-4 SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 14 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

TC-100

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT EIGHTH AVENUE
PHASE 57

CITY OF SAN DIEGO, CALIFORNIA
SHEET 100 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah — FOR CITY ENGINEER — 07/15/2014 DATE
AHMED ABURAHMAH — PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T100-D

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 09/18/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1C | DATE:09/18/2014 | BY:DaB

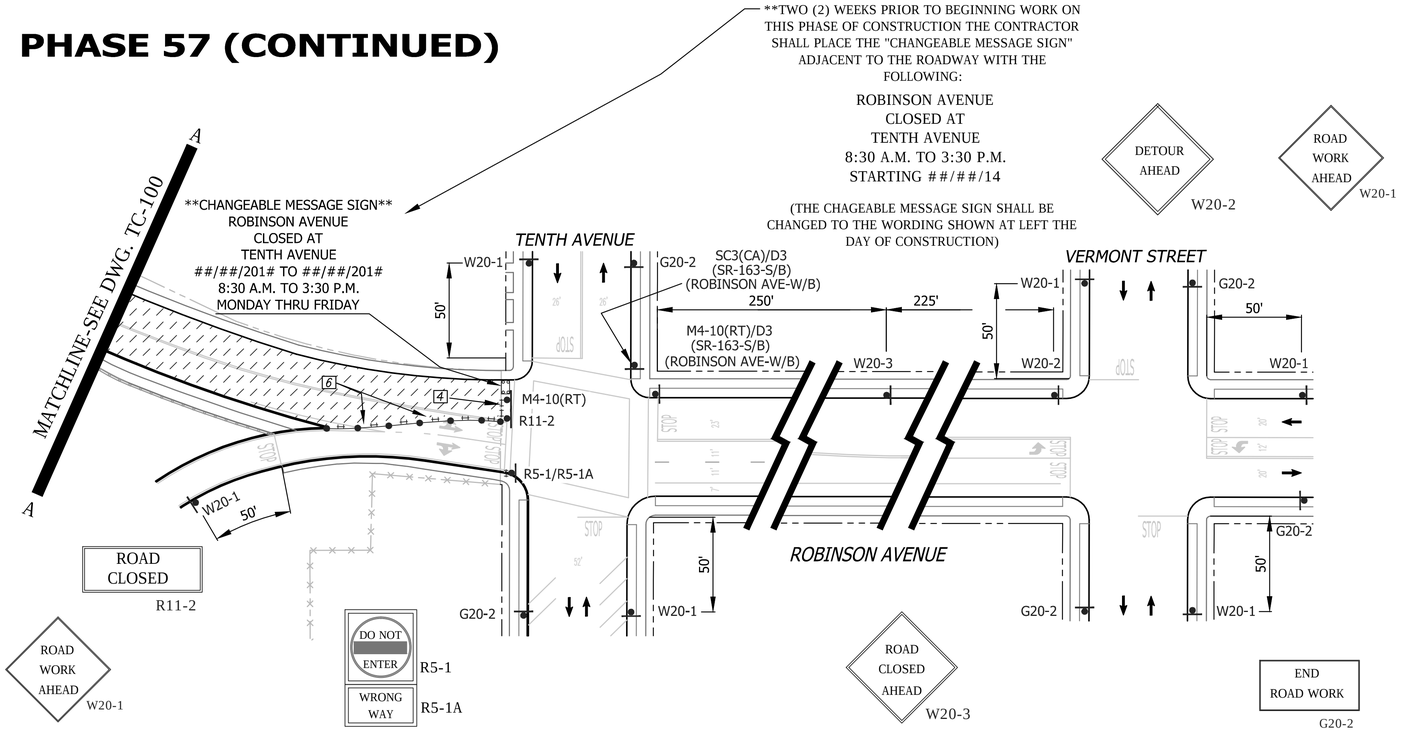
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 57 (CONTINUED)

**TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THIS PHASE OF CONSTRUCTION THE CONTRACTOR SHALL PLACE THE "CHANGEABLE MESSAGE SIGN" ADJACENT TO THE ROADWAY WITH THE FOLLOWING:

ROBINSON AVENUE
CLOSED AT
TENTH AVENUE
8:30 A.M. TO 3:30 P.M.
STARTING ##/##/14

(THE CHAGEABLE MESSAGE SIGN SHALL BE CHANGED TO THE WORDING SHOWN AT LEFT THE DAY OF CONSTRUCTION)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

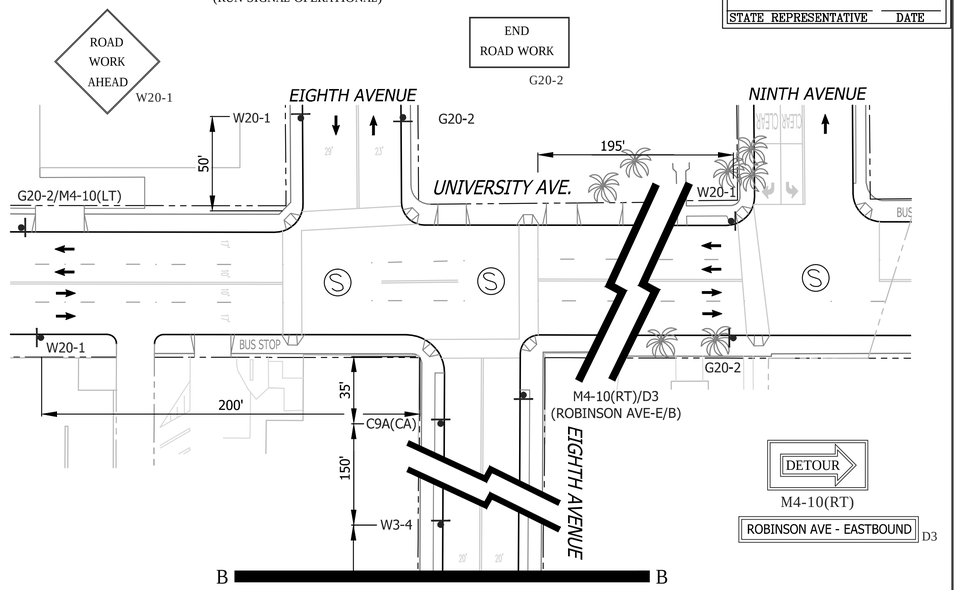
4 -TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	SEE DWG.	25 FT
10th AVE./VERMONT ST.	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th AVE	35	N/A	N/A	SEE DWG.	25 FT

S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



MATCHLINE-SEE DWG. TC-100

DETOUR M4-8 ROBINSON AVE - EASTBOUND D3

DETOUR M4-8 ROBINSON AVE - WESTBOUND D3

DETOUR M4-10(LT) ROBINSON AVE - WESTBOUND D3

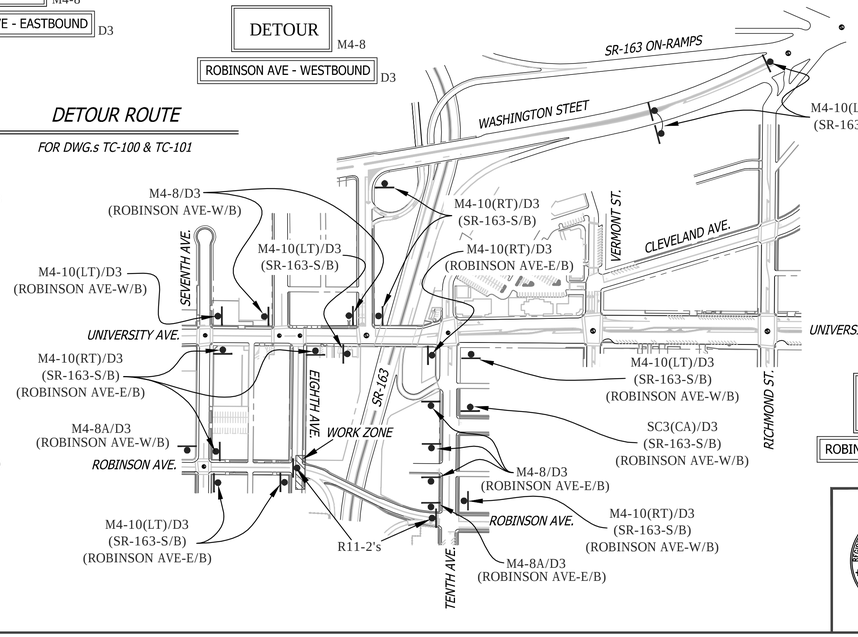
DETOUR M4-10(RT) CALIFORNIA 163 SOUTHBOUND D3 ROBINSON AVE - EASTBOUND D3

END DETOUR M4-8a ROBINSON AVE - WESTBOUND D3

DETOUR M4-10(LT) CALIFORNIA 163 SOUTHBOUND D3 ROBINSON AVE - EASTBOUND D3

DETOUR ROUTE

FOR DWG.s TC-100 & TC-101



DETOUR M4-10(LT) CALIFORNIA 163 SOUTHBOUND D3

C9A(CA)

BE PREPARED TO STOP W3-4

DETOUR M4-10(RT) CALIFORNIA 163 SOUTHBOUND D3

DETOUR SC3(CA) CALIFORNIA 163 SOUTHBOUND D3 ROBINSON AVE - WESTBOUND D3

DETOUR M4-10(LT) CALIFORNIA 163 SOUTHBOUND D3 ROBINSON AVE - WESTBOUND D3

END DETOUR M4-8a ROBINSON AVE - EASTBOUND D3

DETOUR M4-10(RT) CALIFORNIA 163 SOUTHBOUND D3 ROBINSON AVE - WESTBOUND D3

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.
R26 (MOD)

N E S W

PERMIT NUMBER: 11-14-NUI-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 09/18/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1C | DATE:09/18/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 101

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT EIGHTH AVENUE
PHASE 57

CITY OF SAN DIEGO, CALIFORNIA
SHEET 101 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

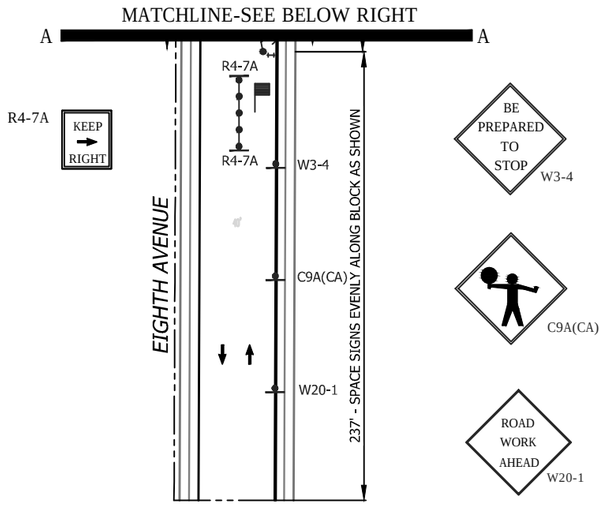
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T101-D

PERMIT NUMBER 11-14-NUI-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

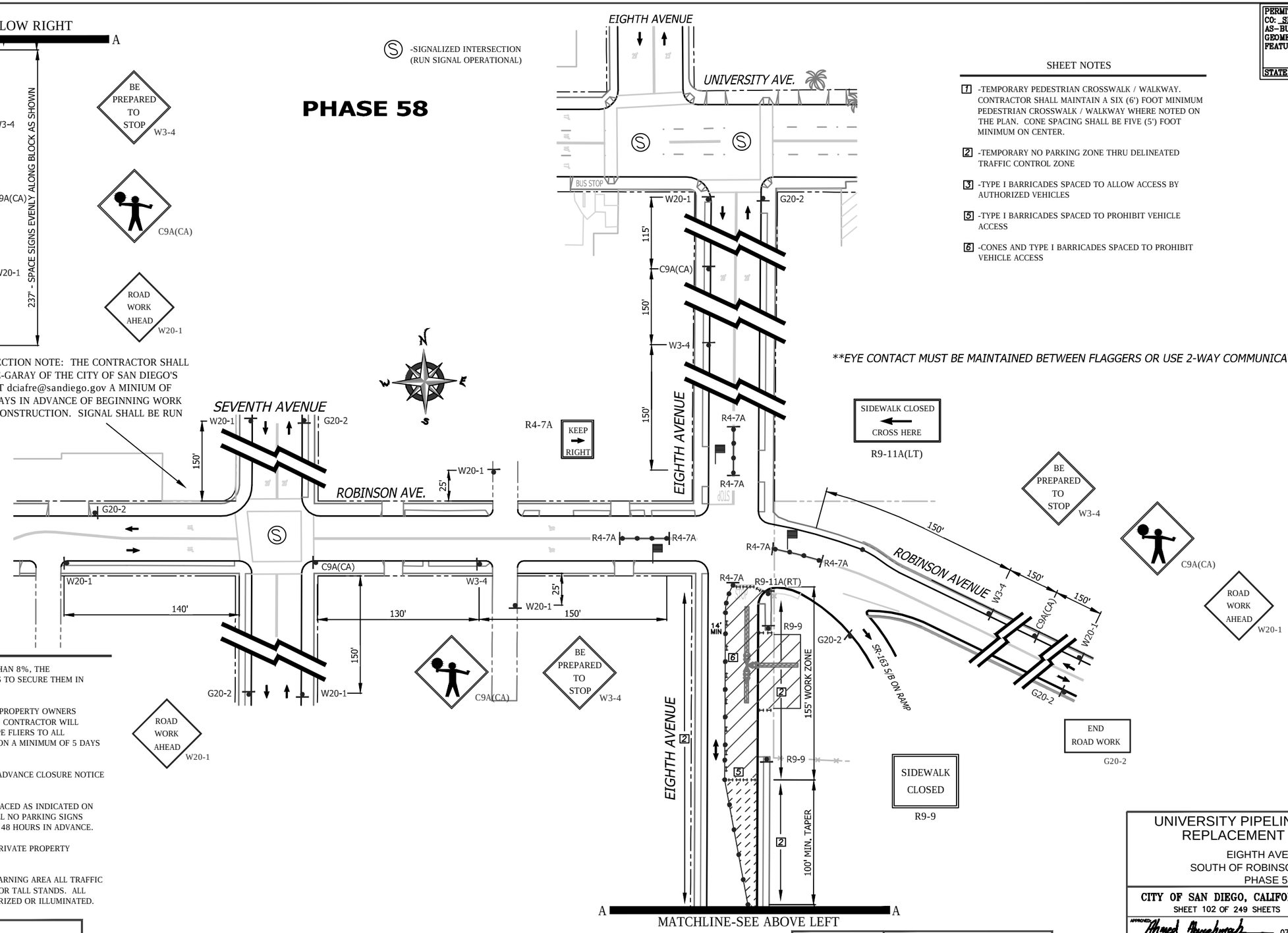
PHASE 58

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

END ROAD WORK
G20-2



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:07/31/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-102

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

EIGHTH AVENUE
SOUTH OF ROBINSON AVENUE
PHASE 58

CITY OF SAN DIEGO, CALIFORNIA
SHEET 102 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

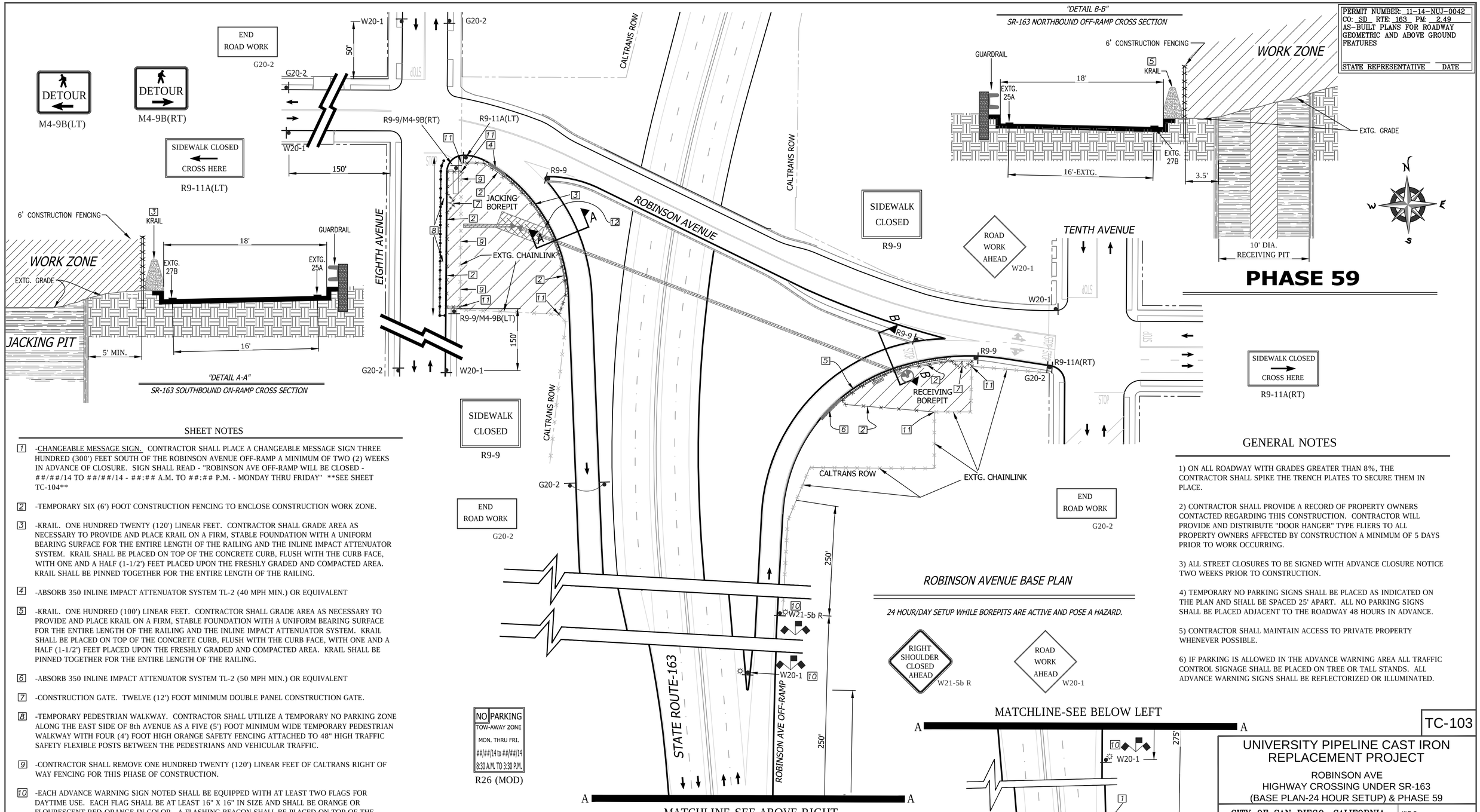
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T102-D



PERMIT NUMBER: 11-14-NUI-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

PHASE 59

SHEET NOTES

7 -CHANGEABLE MESSAGE SIGN. CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN THREE HUNDRED (300') FEET SOUTH OF THE ROBINSON AVENUE OFF-RAMP A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CLOSURE. SIGN SHALL READ - "ROBINSON AVE OFF-RAMP WILL BE CLOSED - ##/##/14 TO ##/##/14 - ##:## A.M. TO ##:## P.M. - MONDAY THRU FRIDAY" **SEE SHEET TC-104**

2 -TEMPORARY SIX (6') FOOT CONSTRUCTION FENCING TO ENCLOSE CONSTRUCTION WORK ZONE.

3 -KRAIL. ONE HUNDRED TWENTY (120') LINEAR FEET. CONTRACTOR SHALL GRADE AREA AS NECESSARY TO PROVIDE AND PLACE KRAIL ON A FIRM, STABLE FOUNDATION WITH A UNIFORM BEARING SURFACE FOR THE ENTIRE LENGTH OF THE RAILING AND THE INLINE IMPACT ATTENUATOR SYSTEM. KRAIL SHALL BE PLACED ON TOP OF THE CONCRETE CURB, FLUSH WITH THE CURB FACE, WITH ONE AND A HALF (1-1/2') FEET PLACED UPON THE FRESHLY GRADED AND COMPACTED AREA. KRAIL SHALL BE PINNED TOGETHER FOR THE ENTIRE LENGTH OF THE RAILING.

4 -ABSORB 350 INLINE IMPACT ATTENUATOR SYSTEM TL-2 (40 MPH MIN.) OR EQUIVALENT

5 -KRAIL. ONE HUNDRED (100') LINEAR FEET. CONTRACTOR SHALL GRADE AREA AS NECESSARY TO PROVIDE AND PLACE KRAIL ON A FIRM, STABLE FOUNDATION WITH A UNIFORM BEARING SURFACE FOR THE ENTIRE LENGTH OF THE RAILING AND THE INLINE IMPACT ATTENUATOR SYSTEM. KRAIL SHALL BE PLACED ON TOP OF THE CONCRETE CURB, FLUSH WITH THE CURB FACE, WITH ONE AND A HALF (1-1/2') FEET PLACED UPON THE FRESHLY GRADED AND COMPACTED AREA. KRAIL SHALL BE PINNED TOGETHER FOR THE ENTIRE LENGTH OF THE RAILING.

6 -ABSORB 350 INLINE IMPACT ATTENUATOR SYSTEM TL-2 (50 MPH MIN.) OR EQUIVALENT

7 -CONSTRUCTION GATE. TWELVE (12') FOOT MINIMUM DOUBLE PANEL CONSTRUCTION GATE.

8 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

9 -CONTRACTOR SHALL REMOVE ONE HUNDRED TWENTY (120') LINEAR FEET OF CALTRANS RIGHT OF WAY FENCING FOR THIS PHASE OF CONSTRUCTION.

10 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE	25	N/A	N/A	150 FT.	25 FT
8th AVENUE	25	N/A	N/A	150 FT.	25 FT
SR-163 OFF-RAMP	50	N/A	N/A	500 FT.	25 FT

SHEET NOTES

11 -ATTACH TEMPORARY CONSTRUCTION FENCING TO EXISTING CALTRANS ROW FENCING TO PROHIBIT PEDESTRIAN ACCESS

12 -CONTRACTOR SHALL MAINTAIN A FIVE (5') FOOT MINIMUM CLEARANCE BETWEEN THE BACKSIDE OF THE KRAIL AND THE EDGE OF THE BOREPIT.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN the ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC-103

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
HIGHWAY CROSSING UNDER SR-163
(BASE PLAN-24 HOUR SETUP) & PHASE 59

CITY OF SAN DIEGO, CALIFORNIA
SHEET 103 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T103-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/08/2014 BY: DaB

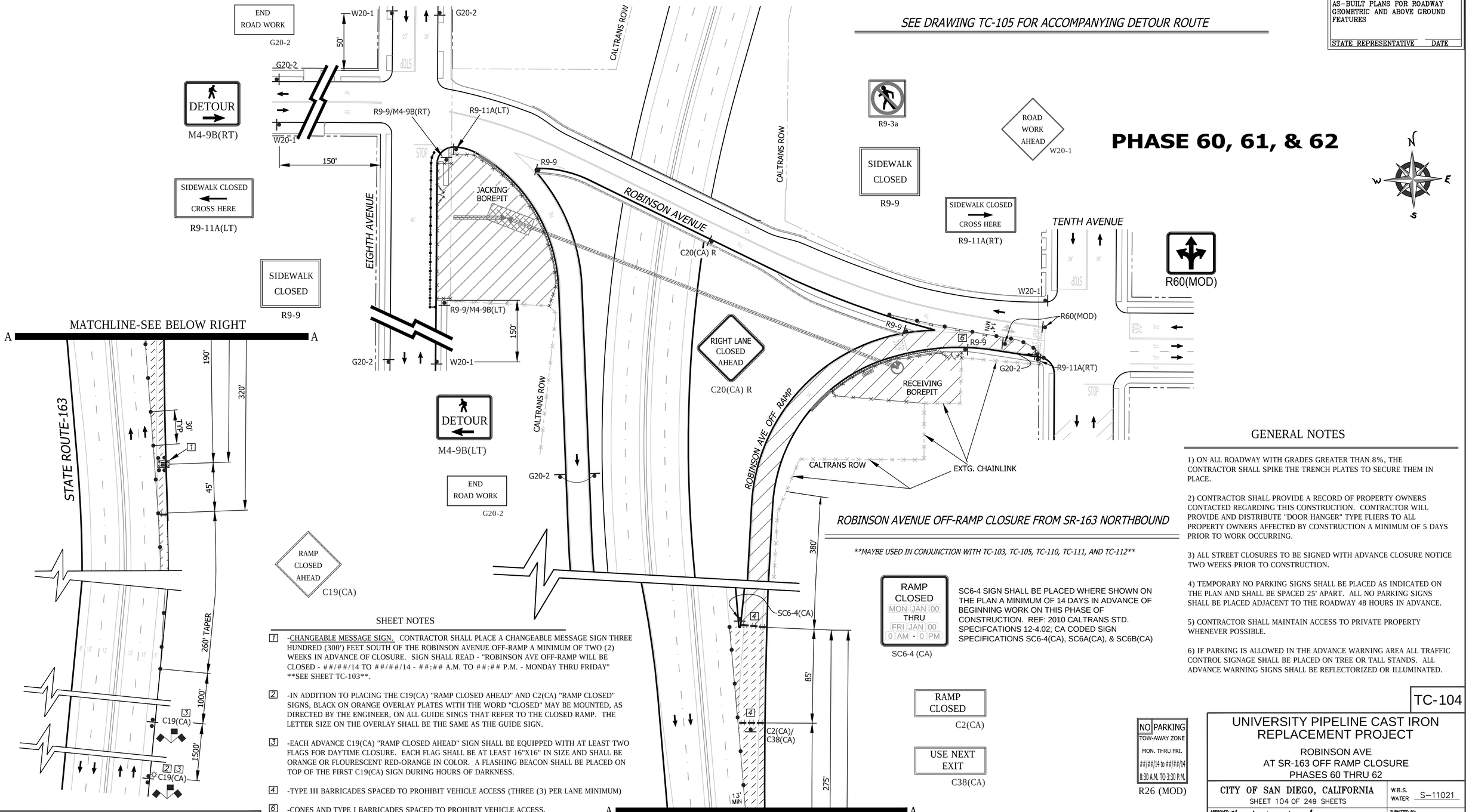
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-105 FOR ACCOMPANYING DETOUR ROUTE

PHASE 60, 61, & 62



ROBINSON AVENUE OFF-RAMP CLOSURE FROM SR-163 NORTHBOUND

MAYBE USED IN CONJUNCTION WITH TC-103, TC-105, TC-110, TC-111, AND TC-112

RAMP CLOSED
MON JAN 00
THRU
FRI JAN 00
0 AM - 0 PM
SC6-4 (CA)

SC6-4 SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 14 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

RAMP CLOSED
C2(CA)

USE NEXT EXIT
C38(CA)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -CHANGEABLE MESSAGE SIGN. CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN THREE HUNDRED (300') FEET SOUTH OF THE ROBINSON AVENUE OFF-RAMP A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CLOSURE. SIGN SHALL READ - "ROBINSON AVE OFF-RAMP WILL BE CLOSED - ##/##/14 TO ##/##/14 - ##:## A.M. TO ##:## P.M. - MONDAY THRU FRIDAY" **SEE SHEET TC-103**.

2 -IN ADDITION TO PLACING THE C19(CA) "RAMP CLOSED AHEAD" AND C2(CA) "RAMP CLOSED" SIGNS, BLACK ON ORANGE OVERLAY PLATES WITH THE WORD "CLOSED" MAY BE MOUNTED, AS DIRECTED BY THE ENGINEER, ON ALL GUIDE SINGS THAT REFER TO THE CLOSED RAMP. THE LETTER SIZE ON THE OVERLAY SHALL BE THE SAME AS THE GUIDE SIGN.

3 -EACH ADVANCE C19(CA) "RAMP CLOSED AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME CLOSURE. EACH FLAG SHALL BE AT LEAST 16"X16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE FIRST C19(CA) SIGN DURING HOURS OF DARKNESS.

4 -TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS (THREE (3) PER LANE MINIMUM)

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS.

8 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE	25	N/A	N/A	150 FT.	25 FT
SR-163 NORTHBOUND	65	SEE DWG.		SEE DWG.	30 FT
SR-163 OFF-RAMP	50	N/A	N/A	500 FT.	30 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/08/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-104

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT SR-163 OFF RAMP CLOSURE
PHASES 60 THRU 62

CITY OF SAN DIEGO, CALIFORNIA
SHEET 104 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

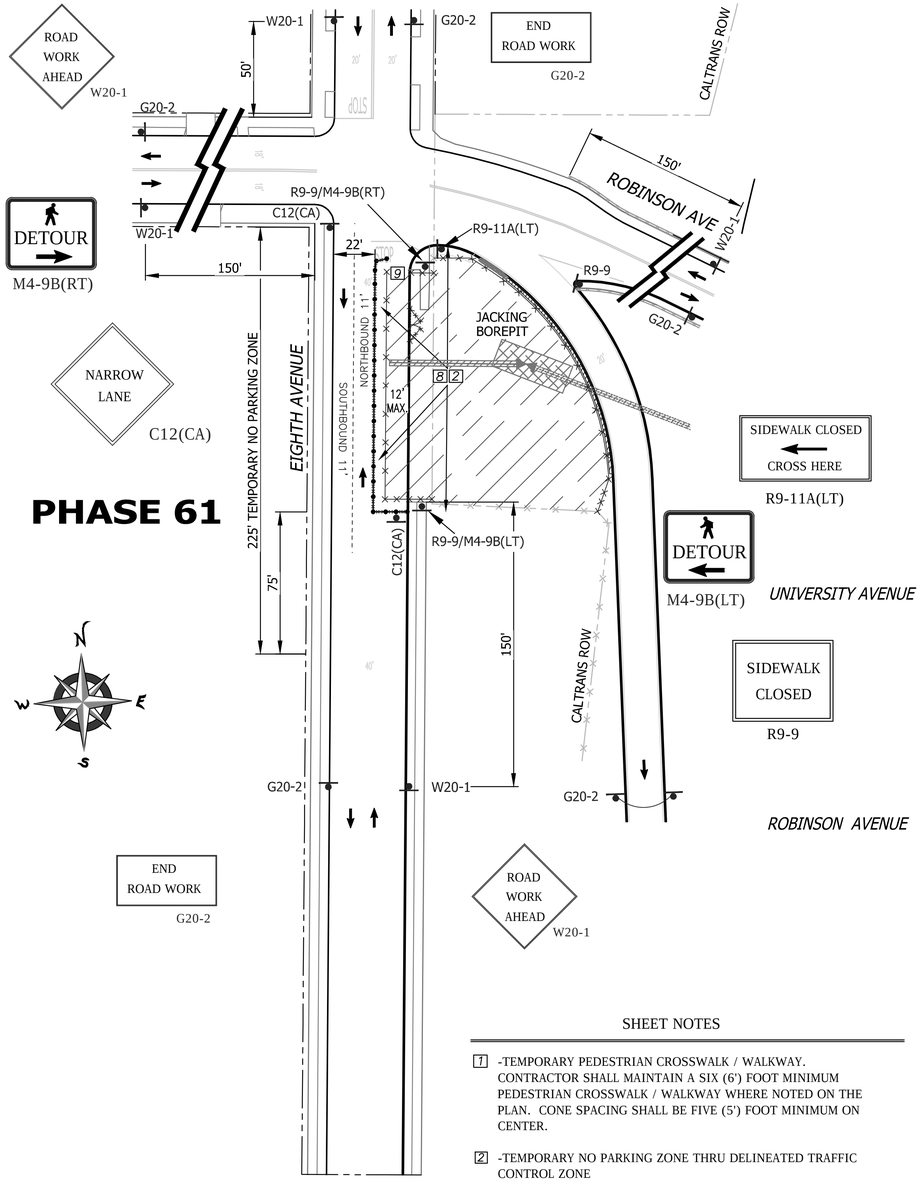
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

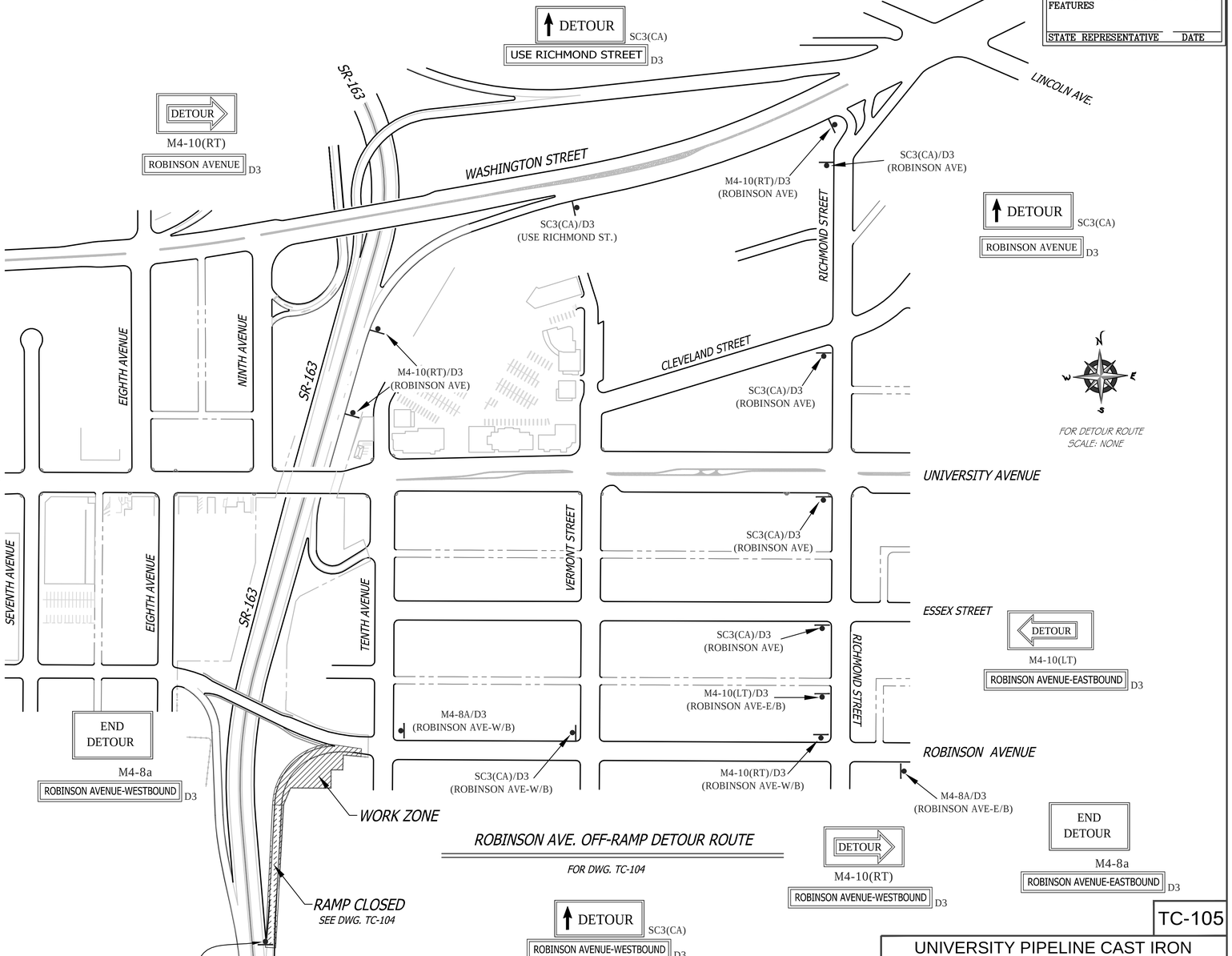
210-1719
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T104-D

THIS TRAFFIC CONTROL SETUP MAY BE USED IN CONJUNCTION WITH DRAWING TC-103, TC-104, TC-106, OR TC-105.





PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

8 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH ONE (1) ROW OF FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC AND THE CHAINLINK FENCING.

9 -CONTRACTOR MAY PULL OUT THE TEMPORARY FENCING TWELVE (12') MAXIMUM FROM THE FACE OF CURB DURING THE WORK DAY TO EXTEND THEIR DAYTIME WORK ZONE. CONTRACTOR SHALL MAINTAIN TEN (10') FOOT MINIMUM OPENING FOR CONSTRUCTION VEHICLE ACCESS. OPENING SHALL BE CONED OR BARRICADED OFF WHEN INGRESS AND EGRESS IS NOT NEEDED OR PLACE A FLAGMAN AT THE OPENING TO ENSURE PEDESTRIANS DO NOT ENTER THE WORK ZONE

SC6-4 SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 14 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
ROBINSON AVE.	25	N/A	N/A	150 FT.	25 FT
8th AVENUE	25	N/A	N/A	SEE DWG.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/01/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-105

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

EIGHTH AVENUE
SOUTH OF ROBINSON AVE-WEST OF SR-163 ROW
PHASE 61

CITY OF SAN DIEGO, CALIFORNIA
SHEET 105 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T105-D

PHASE 62

SEE DWG. TC-107 FOR ACCOMPANYING DETOUR ROUTE

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

DETOUR M4-10(RT) — ROBINSON AVENUE - EASTBOUND D3
DETOUR M4-8 — ROBINSON AVENUE - EASTBOUND D3
DETOUR M4-10(LT)
ROAD CLOSED TO THRU TRAFFIC R11-4
ROAD CLOSED R11-2
NARROW LANE C12(CA)
ROAD WORK AHEAD W20-1
DETOUR AHEAD W20-2
KEEP RIGHT R4-7A
STOP R1-1
SIDEWALK CLOSED R9-9
R3-1
R60B(CA)
SIDEWALK CLOSED CROSS HERE R9-11A(LT)
DETOUR M4-9B(LT) / DETOUR M4-9B(RT)
R9-11A(RT)
R9-3a
R3-2
ROAD NARROWS W5-1
NARROW LANE C12(CA)
ROAD WORK AHEAD W20-1
R26 (MOD)

MATCHLINE-SEE DWG. TC-107 (A)
MATCHLINE-SEE ABOVE LEFT (C)
MATCHLINE-SEE DWG. TC-107 (B)

EIGHTH AVENUE
CALTRANS ROW
SR-163
ROBINSON AVENUE
TENTH AVENUE
ONEIDA WAY
SR-163 N/B ON-RAMP
ROBINSON AVE. OFF RAMP
ROBINSON AVE.
JACKING BOREPIT
RECEIVING BOREPIT
WORK ZONE
TEMPORARY NO PARKING ZONE ON BOTH SIDES OF THE STREET
90' SHIFT TAPER
50' BUFFER
75' REVERSE TAPER
75' SHIFT TAPER
170'-SPACE SIGNS EVENLY AS SHOWN
175' SHIFT TAPER
TEMPORARY NO PARKING ZONE

SEE DWG. TC-104 FOR TRAFFIC CONTROL SETUP FOR OFF-RAMP CLOSURE & DWG. TC-107 FOR ACCOMPANYING DETOUR ROUTE

PLACE ADVANCE WARNING SIGNS ON TALL STANDS

ROBINSON AVE EASTBOUND CLOSED 8th AVE to 10th AVE
MON JAN 00 THRU FRI JAN 00
0 AM - 0 PM
SC6-4(CA) (MOD)/D3 (ROBINSON AVE-E/B)
SC6-4(CA) (MOD) SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 7 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

ROBINSON AVE WESTBOUND CLOSED 10th AVE to 8th AVE
MON JAN 00 THRU FRI JAN 00
0 AM - 0 PM
SC6-4(CA) (MOD)/D3 (ROBINSON AVE-W/B)
SC6-4(CA) (MOD) SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 7 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

CUSTOM SIGN E/B — CALIFORNIA 163 SOUTHBOUND ACCESS ONLY
R11-3A(MOD)/D3 (ROBINSON AVE-E/B) (SR-163 S/B ACCESS ONLY)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY / CROSSWALK. CONTRACTOR SHALL PROVIDE A EIGHT (8') FOOT(MINIMUM) WIDE PEDESTRIAN CROSSWALK WHERE SHOWN ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED

3 -SIGNS ON TYPE I BARRICADES SPACED (24' MIN.) TO ALLOW ACCESS BY VEHICLES REQUIRING SR-163 SOUTHBOUND ACCESS.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE THE TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/01/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-106

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
BETWEEN SR-163 OFF-RAMP & 10th AVENUE
PHASE 62

CITY OF SAN DIEGO, CALIFORNIA
SHEET 106 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

36656-T106-D

PHASE 62 (CONTINUED)

PERMIT NUMBER 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SEVENTH AVENUE

END ROAD WORK G20-2

DETOUR M4-10(RT) ROBINSON AVENUE - EASTBOUND D3

R11-3(MOD)/D3 (ROBINSON AVE-E/B) (SR-163-S/B ONLY)

M4-10(RT)/D3 (ROBINSON AVE-E/B)

W20-1, G20-2, 150', 25', W20-2, 130'

ROBINSON AVE.

MATCHLINE-SEE DWG. TC-106

ROBINSON AVE EASTBOUND CLOSED 8th AVE to 10th AVE
CALIFORNIA 163
SOUTHBOUND ACCESS ONLY

R11-3A(MOD)/D3 (ROBINSON AVE-E/B) (SR-163 S/B ACCESS ONLY)

ROAD WORK AHEAD W20-1

DETOUR AHEAD W20-2

ROAD CLOSED AHEAD W20-3

ROAD CLOSED AHEAD W20-3

NARROW LANE C12(CA)

DETOUR AHEAD W20-2

B

VERMONT STREET

W20-1, G20-2, 50', 250', 250', W20-3, C12(CA), W20-2, W20-1, STOP

M4-10(LT)/D3 (ROBINSON AVE-W/B) (SR-163-S/B)

ROBINSON AVE.

G20-2, W20-1, 50'

END ROAD WORK G20-2

MATCHLINE-SEE DWG. TC-106

B

A

MATCHLINE-SEE DWG. TC-106

A

DETOUR M4-10(RT) ROBINSON AVENUE D3

DETOUR M4-10(LT) ROBINSON AVENUE-WESTBOUND D3

DETOUR SC3(CA) USE RICHMOND STREET D3

SR-163

WASHINGTON STREET

SC3(CA)/D3 (USE RICHMOND ST.)

M4-10(RT)/D3 (ROBINSON AVE)

SC3(CA)/D3 (ROBINSON AVE)

RICHMOND STREET

DETOUR SC3(CA) ROBINSON AVENUE D3

EIGHTH AVENUE

NINTH AVENUE

CLEVELAND STREET

M4-10(RT)/D3 (ROBINSON AVE)

SC3(CA)/D3 (ROBINSON AVE)

SC3(CA)/D3 (ROBINSON AVE-W/B) (SR-163-S/B)

M4-10(LT)/D3 (ROBINSON AVE-W/B) (SR-163-S/B)

SC3(CA)/D3 (ROBINSON AVE-E/B)

FOR DETOUR ROUTE SCALE: NONE

UNIVERSITY AVENUE

M4-10(RT)/D3 (ROBINSON AVE-E/B)

M4-10(LT)/D3 (ROBINSON AVE-W/B) (SR-163-S/B)

SC3(CA)/D3 (ROBINSON AVE)

SC3(CA)/D3 (ROBINSON AVE-E/B)

SC3(CA)/D3 (ROBINSON AVE-W/B) (SR-163-S/B)

VERMONT STREET

SEVENTH AVENUE

EIGHTH AVENUE

SR-163

TENTH AVENUE

DETOUR SC3(CA) ROBINSON AVENUE-EASTBOUND D3

ESSEX STREET

SC3(CA)/D3 (ROBINSON AVE-E/B)

SC3(CA)/D3 (ROBINSON AVE)

RICHMOND STREET

M4-8A/D3 (ROBINSON AVE-E/B)

M4-10(RT)/D3 (ROBINSON AVE-W/B) (SR-163-S/B)

M4-10(LT)/D3 (ROBINSON AVE-E/B)

DETOUR M4-10(LT) ROBINSON AVENUE-EASTBOUND D3

ROBINSON AVENUE

M4-10(RT)/D3 (ROBINSON AVE-E/B)

M4-10(LT)/D3 (ROBINSON AVE-E/B)

M4-8A/D3 (ROBINSON AVE-W/B)

M4-10(RT)/D3 (ROBINSON AVE-W/B)

SC3(CA)/D3 (ROBINSON AVE-W/B)

M4-10(LT)/D3 (ROBINSON AVE-W/B) (SR-163-S/B)

WORK ZONE

ROAD WORK AHEAD W20-1

DETOUR M4-10(RT) ROBINSON AVENUE-EASTBOUND D3

DETOUR M4-10(LT) ROBINSON AVENUE-EASTBOUND D3

DETOUR M4-10(RT) ROBINSON AVENUE-WESTBOUND D3

END DETOUR M4-8a ROBINSON AVENUE-WESTBOUND D3

DETOUR M4-10(LT) CALIFORNIA 163 SOUTHBOUND ROBINSON AVENUE - WESTBOUND D3

DETOUR M4-10(RT) CALIFORNIA 163 SOUTHBOUND ROBINSON AVENUE - WESTBOUND D3

RAMP CLOSED SEE DWG. TC-104

C2(RAMP)(CA)/C38(CA)

SR-163

RAMP CLOSED C2(CA)

USE NEXT EXIT C38(CA)

DETOUR ROUTE

FOR DWG. TC-106 & TC-107

DETOUR SC3(CA) ROBINSON AVENUE-WESTBOUND D3

DETOUR M4-10(RT) ROBINSON AVENUE-WESTBOUND D3

END DETOUR M4-8a ROBINSON AVENUE-EASTBOUND D3

DETOUR SC3(CA) ROBINSON AVENUE-EASTBOUND D3

DETOUR M4-10(LT) ROBINSON AVENUE-EASTBOUND D3

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

RAMP CLOSED MON JAN 00 THRU FRI JAN 00 0 AM - 0 PM

SC6-4 (CA)

SC6-4 SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 14 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVE/VERMONT ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/01/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-107

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
BETWEEN SR-163 OFF-RAMP & 10th AVENUE
PHASE 62

CITY OF SAN DIEGO, CALIFORNIA
SHEET 107 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T107-D

PHASE 63

PERMIT NUMBER 11-14-NUJ-0042
CO: SD FTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

DETOUR M4-10(RT)
ROBINSON AVENUE-EASTBOUND D3
ROAD CLOSED TO THRU TRAFFIC R11-4
ROAD CLOSED R11-2
DETOUR M4-9B(RT)
ROBINSON AVE EASTBOUND CLOSED 8th AVE to 10th AVE MON JAN 00 THRU FRI JAN 00 0 AM - 0 PM (60" x 60")
SC6-4(CA) (MOD) SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 7 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)
SC6-4(CA) (MOD)/D3 (ROBINSON AVE-E/B)
ROAD NARROWS W5-1
SIDEWALK CLOSED CROSS HERE R9-11A(LT)
SIDEWALK CLOSED R9-9
DETOUR M4-10(LT)
ROAD CLOSED R11-2
KEEP RIGHT R4-7A
ROAD WORK AHEAD W20-1
NARROW LANE C12(CA)
SR-163 N/B ON-RAMP
TENTH AVENUE
DETOUR SC3(CA)
CALIFORNIA 163 SOUTHBOUND D3
ROBINSON AVE - EASTBOUND D3
SEE DRAWING TC-109 FOR ACCOMPANYING DETOUR ROUTE
MATCHLINE-SEE ABOVE LEFT
MATCHLINE-SEE DWG. TC-109
MATCHLINE-SEE DWG. TC-109
R11-3(MOD)/D3 (ROBINSON AVE-E/B) (SR-163 S/B ACCESS ONLY)
M4-8/D3 (ROBINSON AVE-E/B)
M4-10(RT)/D3 (ROBINSON AVE-E/B)
M4-10(LT)
SC6-4(MOD)/D3 (ROBINSON AVE-E/B) CUSTOM SIGN E/B
CUSTOM SIGN E/B
R9-9/M4-9B(RT)
R9-11A(LT)
DETOUR M4-9B(LT)
EIGHTH AVENUE
JACKING BOREPIT
ROBINSON AVENUE
CALTRANS ROW
SR-163
R3-2
375'
SEE DWG. TC-103 FOR TRAFFIC CONTROL SETUP FOR OFF-RAMP
RECEIVING BOREPIT
ROBINSON AVE OFF RAMP
250'
100'
CALTRANS ROW
C20(CA) R
R60B(CA)
ROAD CLOSED AHEAD W20-3
DETOUR M4-9B
DETOUR M4-9B(LT)
PLACE ADVANCE WARNING SIGNS ON TALL STANDS
ROBINSON AVE EASTBOUND CLOSED 8th AVE to 10th AVE CALIFORNIA 163 SOUTHBOUND ACCESS ONLY
R11-3A(MOD)/D3 (ROBINSON AVE-E/B) (SR-163 S/B ACCESS ONLY)
ONEIDA WAY
ESSEX STREET
TEMPORARY NO PARKING ZONE
75' SHIFT TAPER
65' BUFFER
50' BUFFER
TEMPORARY NO PARKING ZONE ON BOTH SIDES OF THE STREET
170' WORK ZONE
153'-SPACE SIGNS EVENLY AS SHOWN
R9-3a
DO NOT ENTER R5-1
WRONG WAY R5-1A
SC3(CA)-8/D3 (SR-163-S/B) (ROBINSON AVE-E/B)
130' 100' BUFFER 150' SHIFT TAPER
R9-3A
R5-1/R5-1A
M4-9B/W16-9P
R11-3(MOD)/D3 (SR-163-S/B)
DETOUR M4-10(RT)
STOP R1-1
R3-1
CALIFORNIA 163 SOUTHBOUND D3
M4-9B
DETOUR AHEAD W16-9P
R11-3A(MOD)/D3 (SR-163 S/B)
SIDEWALK CLOSED CROSS HERE R9-11A(RT)
R4-7A KEEP RIGHT
DETOUR M4-9B(RT)
DETOUR AHEAD W20-2
ROAD WORK AHEAD W20-1
NARROW LANE C12(CA)
NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)
SOUTHBOUND CLOSED TO ROBINSON AVE WESTBOUND USE DETOUR
SIDEWALK CLOSED G20-2 R9-9

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY CROSSWALK FOR USE BY PEDESTRIAN ESCORT

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -SIGNS MOUNTED ON TYPE I BARRICADES SPACED TO ALLOW ACCESS BY WESTBOUND ROBINSON AVE. VEHICLES AND EASTBOUND VEHICLES REQUIRING SR-163 SOUTHBOUND ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILITATE PEDESTRIAN MOVEMENT (IN BOTH DIRECTIONS) BETWEEN THE SOUTHWEST CORNER OF THE INTERSECTION SOUTH TO THE TEMPORARY PEDESTRIAN CROSSWALK AND ACROSS THE STREET TO THE SOUTHEAST CORNER

SHEET NOTES

9 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/08/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-108

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT TENTH AVENUE
PHASE 63

CITY OF SAN DIEGO, CALIFORNIA
SHEET 108 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

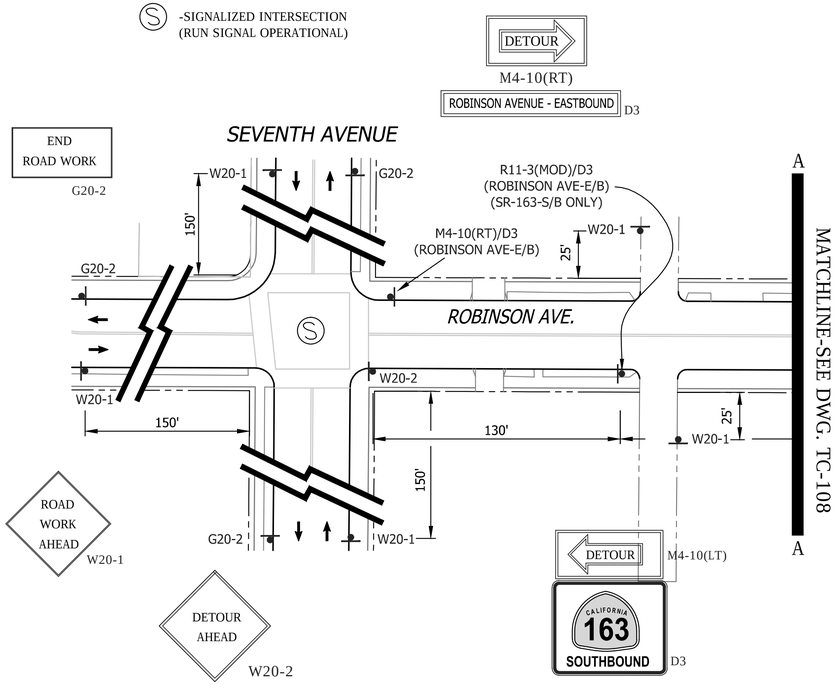
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

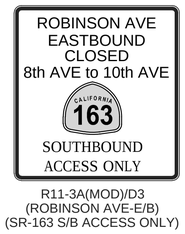
36656-T108-D

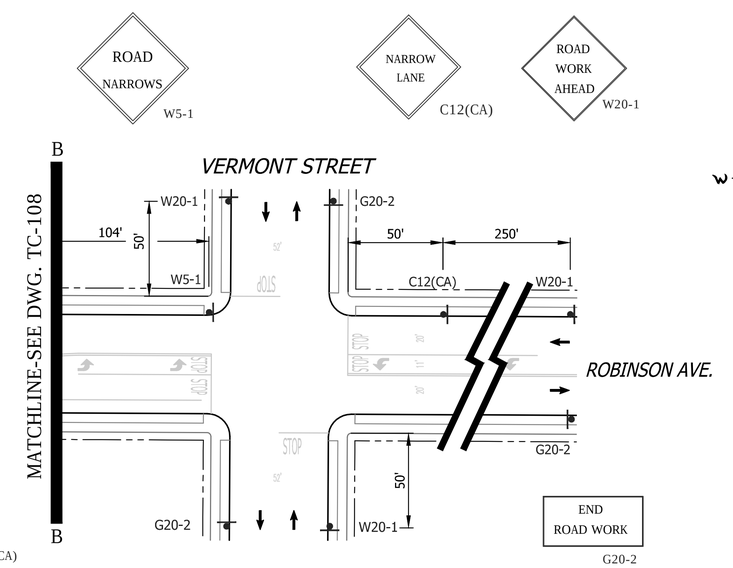
PHASE 63 (CONTINUED)

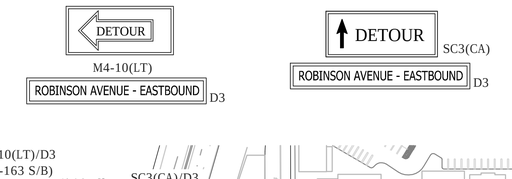
PERMIT NUMBER 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

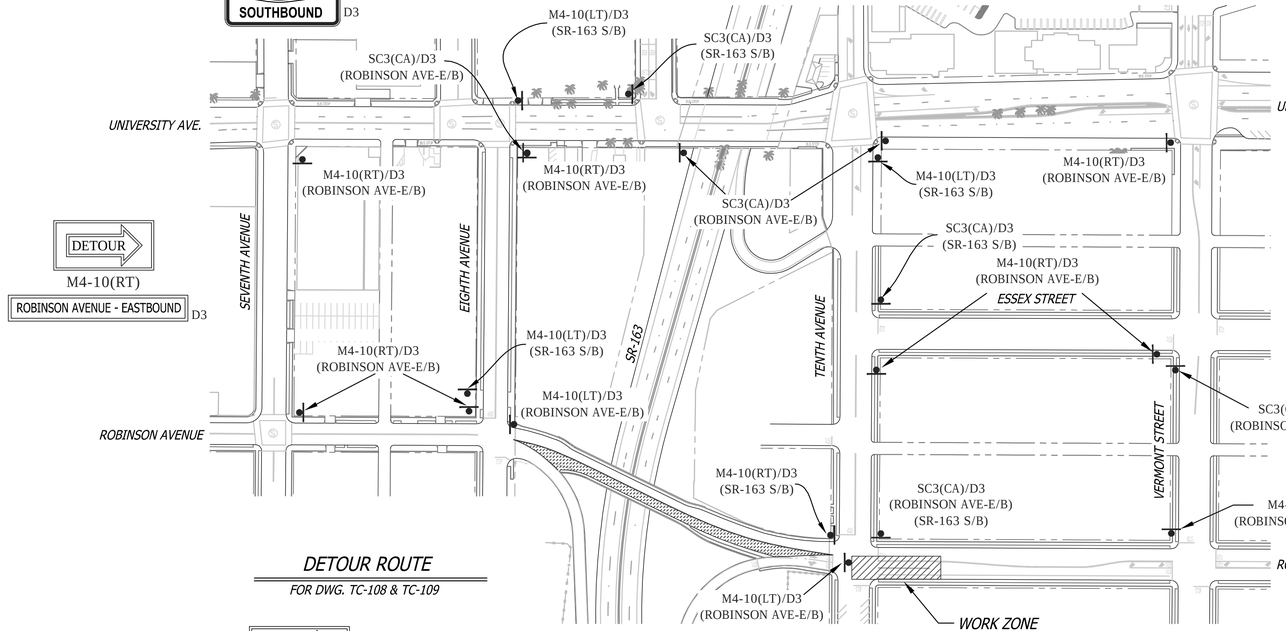
STATE REPRESENTATIVE DATE





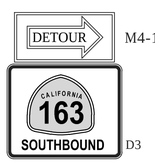






DETOUR ROUTE

FOR DWG. TC-108 & TC-109



SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY CROSSWALK FOR USE BY PEDESTRIAN ESCORT
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF BOTH THE W20-1 SIGNS DURING HOURS OF DARKNESS.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
8. -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT FROM THE EAST SIDE OF THE INTERSECTION TO THE WEST.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC-109

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT TENTH AVENUE
PHASE 63

CITY OF SAN DIEGO, CALIFORNIA
SHEET 109 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T109-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/08/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 64

PERMIT NUMBER 11-14-NUJ-0042
CO: SD FTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

SIDEWALK CLOSED
CROSS HERE
R9-11A(LT)

EIGHTH AVENUE
W20-1 G20-2 50'
SIDEWALK CLOSED R9-9
CALTRANS ROW
SR-163
M4-10(RT)/D3 (TENTH AVE-N/B)
C12(CA) STOP
R9-11A(LT) 80'
C9A(CA) R9-9
ROBINSON AVENUE
150'
W3-4
G20-2 W20-1
CALTRANS ROW
R4-7A KEEP RIGHT
R9-3a
M4-8/D3 (TENTH AVE-N/B)
TEMPORARY NO PARKING ZONE
75' SHIFT TAPER
65' BUFFER
TENTH AVENUE
R4-7A
R9-3A
12' MIN
75' REVERSE SHIFT TAPER
R3-1
135' MIN. BUFFER [2]
200' SHIFT TAPER [2]
147'
W1-4(LT)
W3-4/C12(CA)
R4-7A
100' SHIFT TAPER
R9-11A(RT) 55' 20'
SEE DWG. TC-104 FOR TRAFFIC CONTROL SETUP FOR OFF-RAMP CLOSURE & DWG. TC-105 FOR ACCOMPANYING DETOUR ROUTE
SR-163 N/B OFF-RAMP
CALTRANS ROW
R3-7(RT) 64' BUFFER
TEMPORARY NO PARKING ZONE ON BOTH SIDES OF THE STREET
75' SHIFT TAPER
25' W20-1
C9A(CA)
340' TEMPORARY NO PARKING ZONE
W1-4(LT)
153'-SPACE SIGNS EVENLY AS SHOWN
C12(CA)
W20-2
G20-2

ROAD NARROWS W5-1
C9A
BE PREPARED TO STOP W3-4
W1-4(RT)
RIGHT LANE MUST TURN RIGHT
R3-7(RT)
W1-4 (LT)
DETOUR AHEAD W20-2
ROAD WORK AHEAD W20-1
END ROAD WORK G20-2
SIDEWALK CLOSED CROSS HERE R9-11A(RT)
PLACE ADVANCE WARNING SIGNS ON TALL STANDS

ROAD WORK AHEAD W20-1
NARROW LANE C12(CA)
BE PREPARED TO STOP W3-4

DETOUR M4-8
TENTH AVENUE - NORTHBOUND D3
M4-10(RT) DETOUR
TENTH AVENUE - NORTHBOUND D3
C9A
TENTH AVENUE NORTHBOUND CLOSED USE DETOUR

VERMONT STREET
W20-1 G20-2 M4-/D3 (TENTH AVE-N/B)
C9A(CA)
250' 250' 250'
M4-10(RT)/D3 (TENTH AVE-N/B)
R11-3A(MOD)/D3 (TENTH AVE-N/B)
W20-2 W20-1
G20-2
R11-3A(MOD)/D3 (TENTH AVE-N/B)
TENTH AVENUE NORTHBOUND CLOSED USE DETOUR
G20-2 W20-1

MATCHLINE-SEE ABOVE RIGHT
MATCHLINE-SEE BELOW LEFT
MATCHLINE-SEE ABOVE LEFT

ONEIDA WAY
ESSEX STREET
W20-1 G20-2 W5-1 150' 50' 25'
C9A(CA)
TENTH AVENUE
SR-163 N/B ON-RAMP
C12(CA)

END DETOUR M4-8a
TENTH AVENUE - NORTHBOUND D3
M4-10(RT)/D3 (TENTH AVE-N/B)
M4-8/D3 (TENTH AVE-N/B)
NINTH AVE.
UNIVERSITY AVE.
M4-8A/D3 (TENTH AVE-N/B)
ESSEX STREET
EIGHTH AVE.
SR-163
TENTH AVE.
M4-10(LT)/D3 (TENTH AVE-N/B)
VERMONT ST.
ROBINSON AVE.
M4-8/D3 (TENTH AVE-N/B)
M4-8/D3 (TENTH AVE-N/B)
M4-10(RT)/D3 (TENTH AVE-N/B)

DETOUR ROUTE
FOR DWG. TC-110

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY CROSSWALK TO FACILLITATE PEDESTRIAN MOVEMENT TO OTHER SIDE OF THE STREET. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE WARNING SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

DETOUR AHEAD W20-2
C9A
BE PREPARED TO STOP W3-4
ROAD WORK AHEAD W20-1
NARROW LANE C12(CA)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

DETOUR
M4-10(LT)
TENTH AVENUE - NORTHBOUND D3

TC-110

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.	150 FT.	25 FT	
10th AVENUE	25	SEE DWG.	SEE DWG.	25 FT	
ROBINSON AVE E/O 10th	35	SEE DWG.	250 FT.	25 FT	

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT 10th AVENUE (PHASE 3)
PHASE 64

CITY OF SAN DIEGO, CALIFORNIA
SHEET 110 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

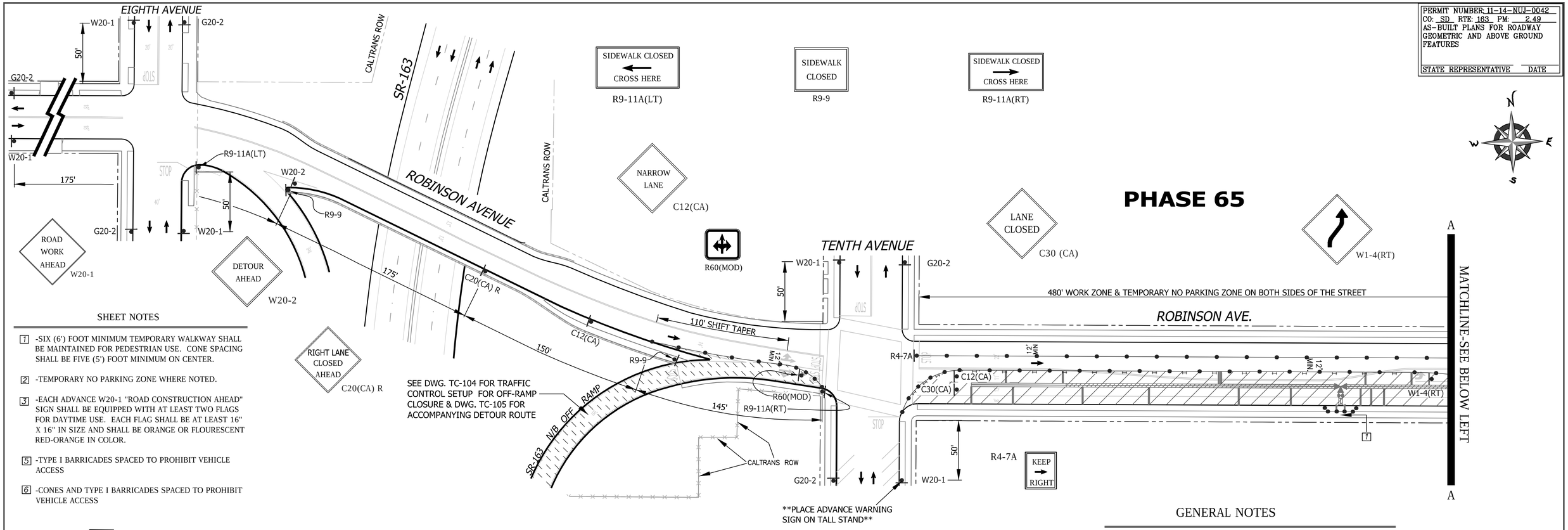
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T110-D

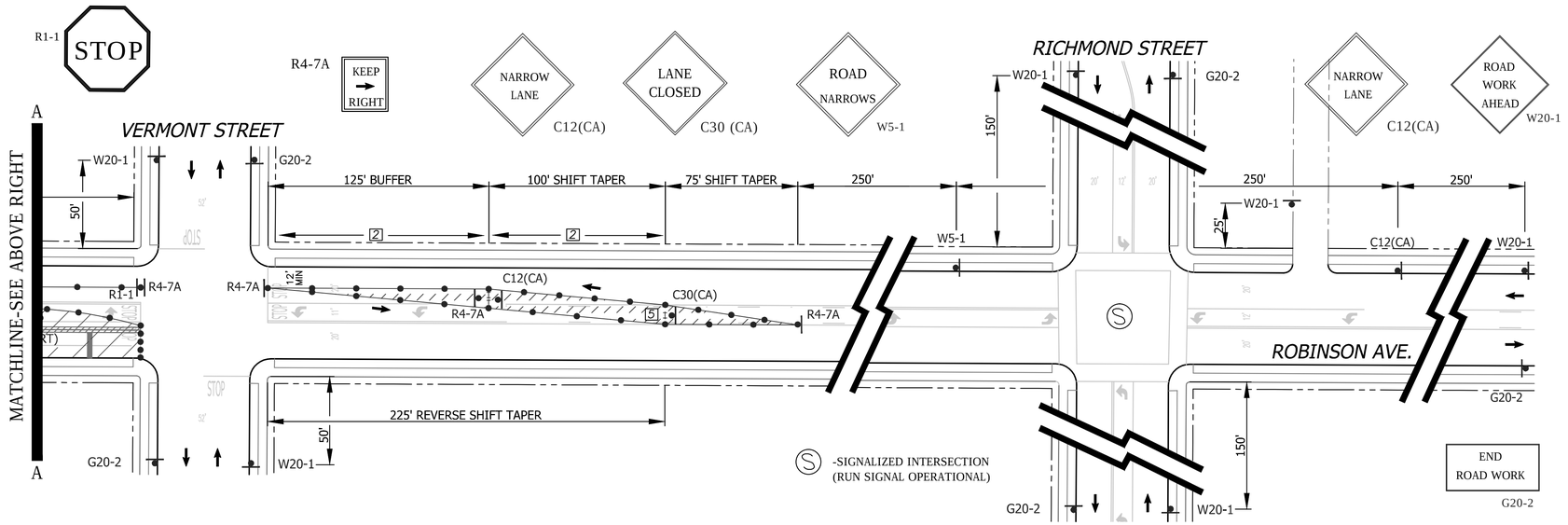
PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

PHASE 65



SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th/VERMONT/RICHMOND	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 09/18/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1C | DATE: 09/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-111

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
ROBINSON AVE
TENTH AVENUE TO VERMONT AVENUE
PHASE 65

CITY OF SAN DIEGO, CALIFORNIA
SHEET 111 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

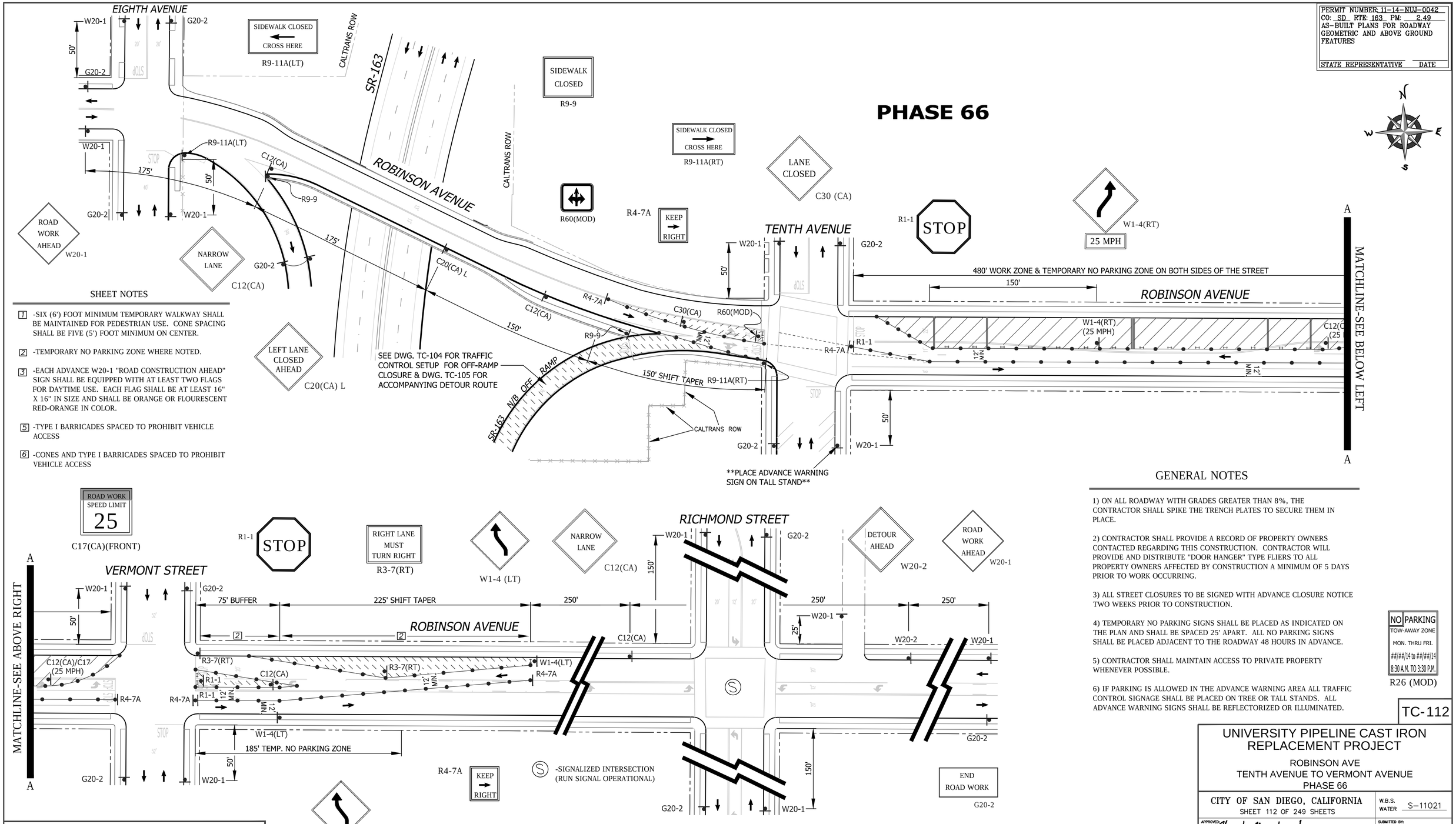
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T111-D

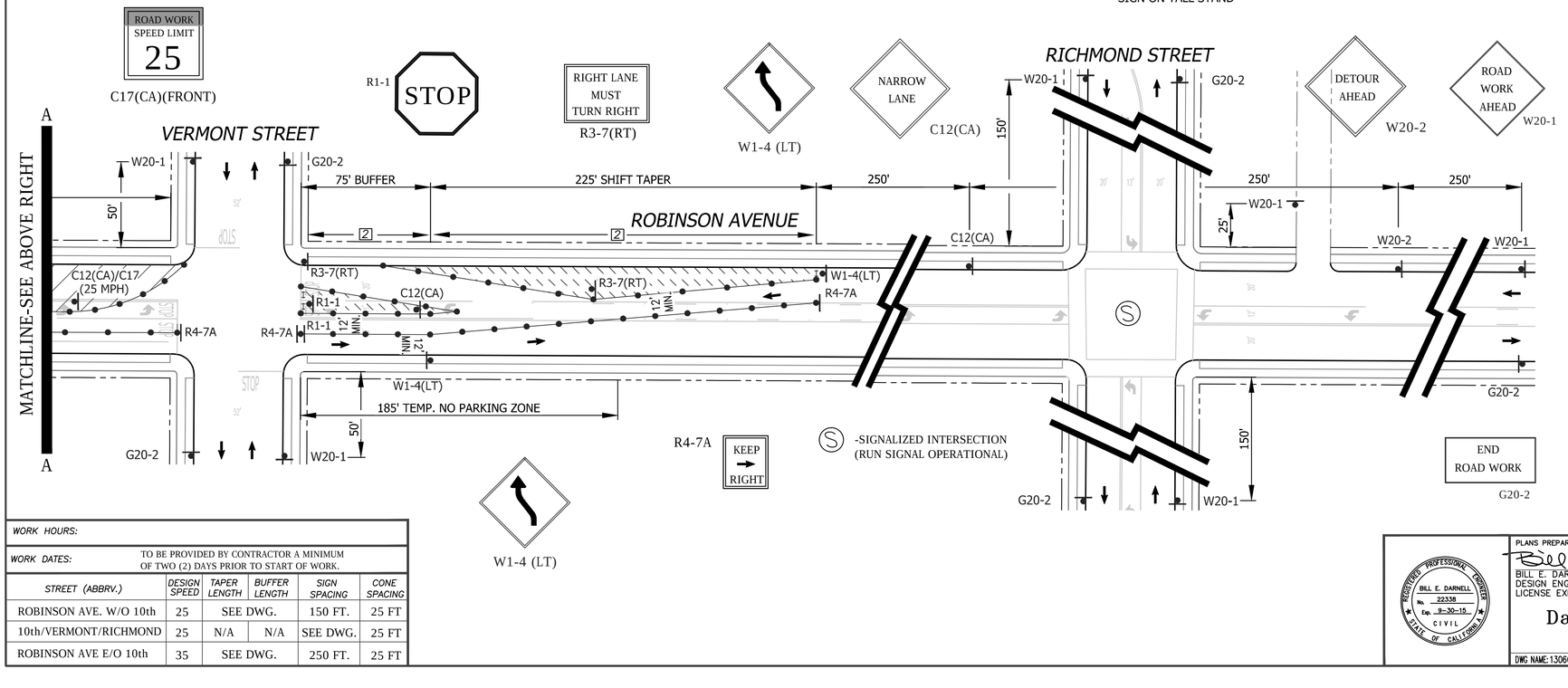
PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

PHASE 66



SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th/VERMONT/RICHMOND	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 09/18/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1C | DATE: 09/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-112

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
TENTH AVENUE TO VERMONT AVENUE
PHASE 66

CITY OF SAN DIEGO, CALIFORNIA
SHEET 112 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

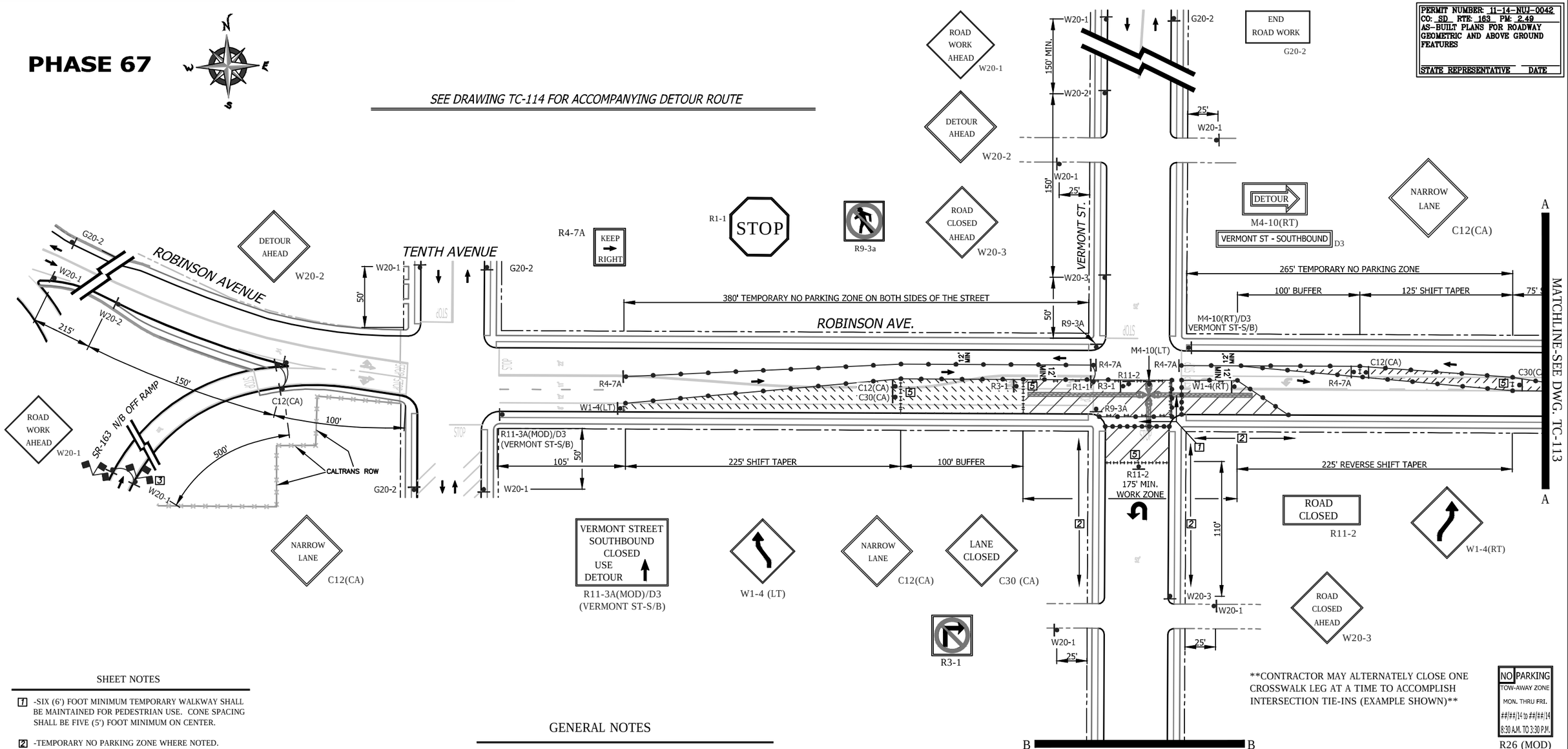
36656-T112-D

PHASE 67

SEE DRAWING TC-114 FOR ACCOMPANYING DETOUR ROUTE

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

[7] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-113

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 67

CITY OF SAN DIEGO, CALIFORNIA
SHEET 113 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

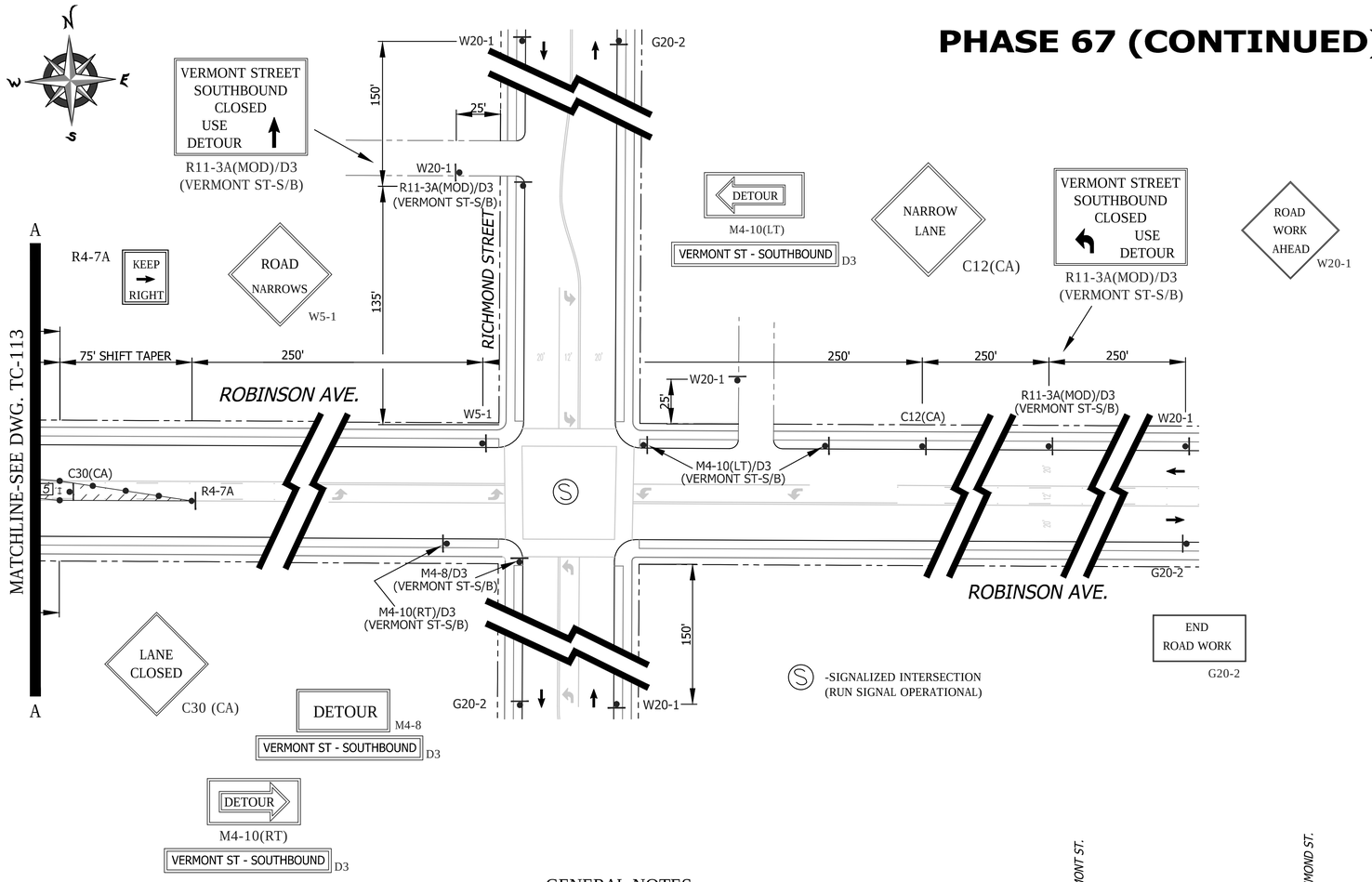
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

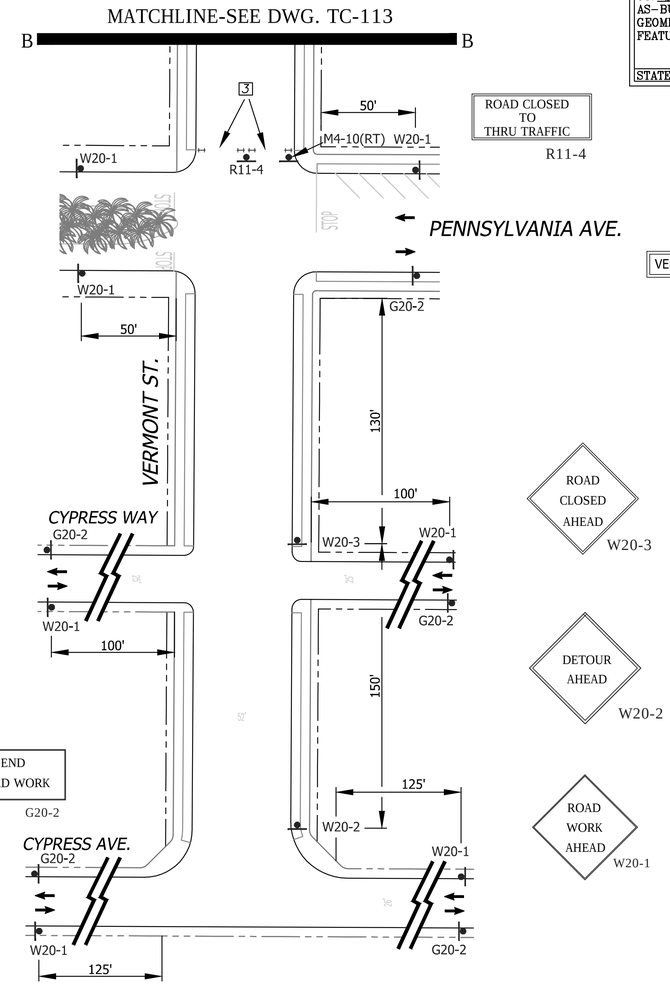
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

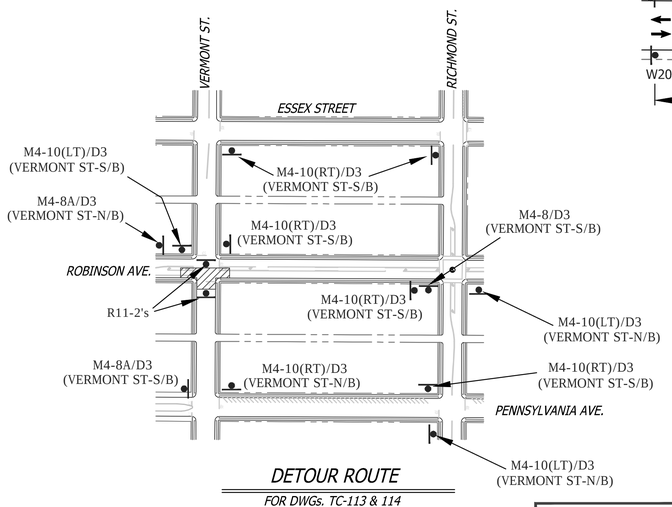
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T113-D

PHASE 67 (CONTINUED)







DETOUR ROUTE

FOR DWGs. TC-113 & 114

SHEET NOTES

[7] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	N/A	N/A	SEE DWG.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/08/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-114

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 67

CITY OF SAN DIEGO, CALIFORNIA
SHEET 114 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T114-D

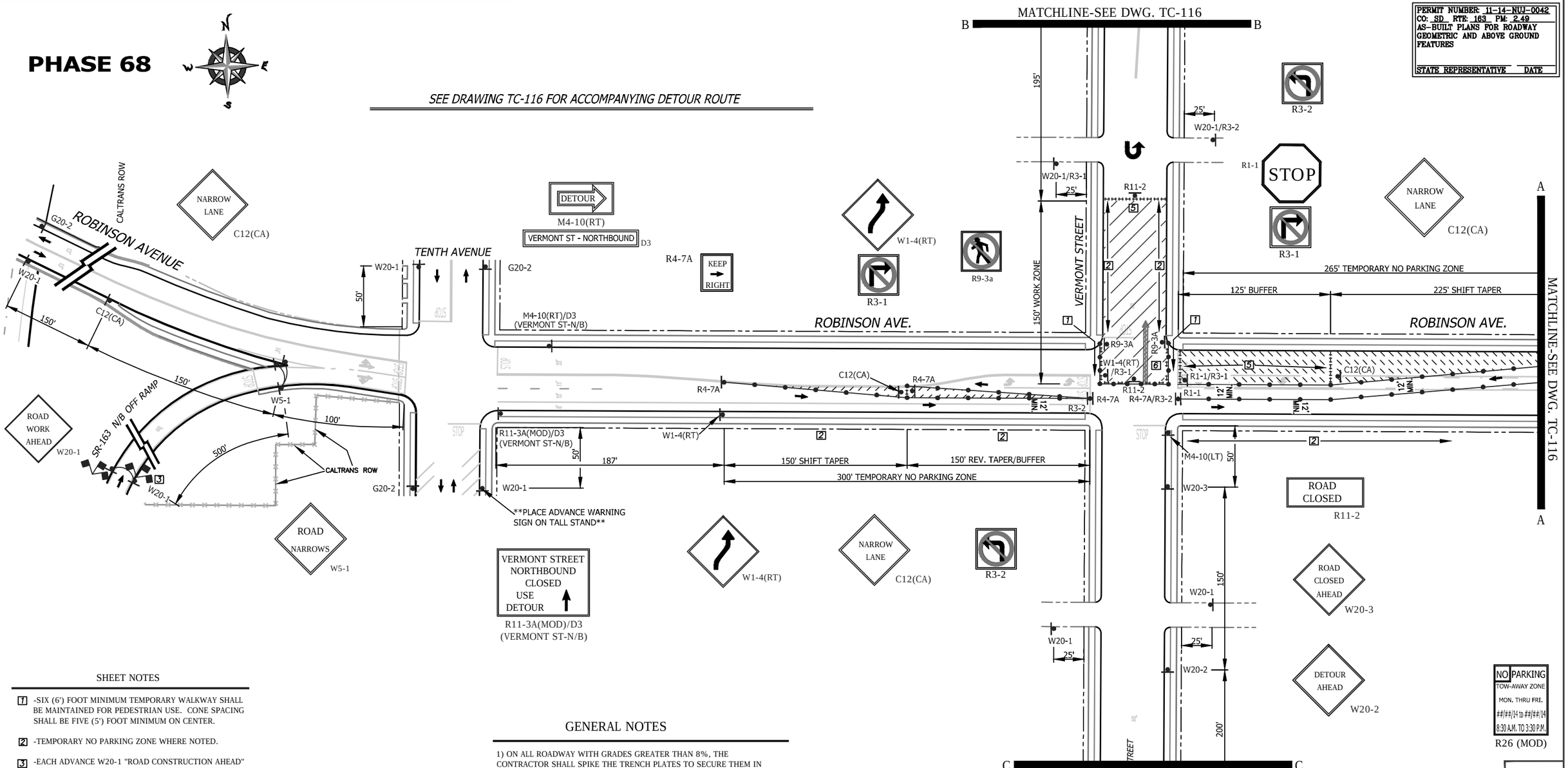
PHASE 68

SEE DRAWING TC-116 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-116

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DoB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-115

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 68

CITY OF SAN DIEGO, CALIFORNIA
SHEET 115 OF 249 SHEETS

W.B.S. WATER S-11021

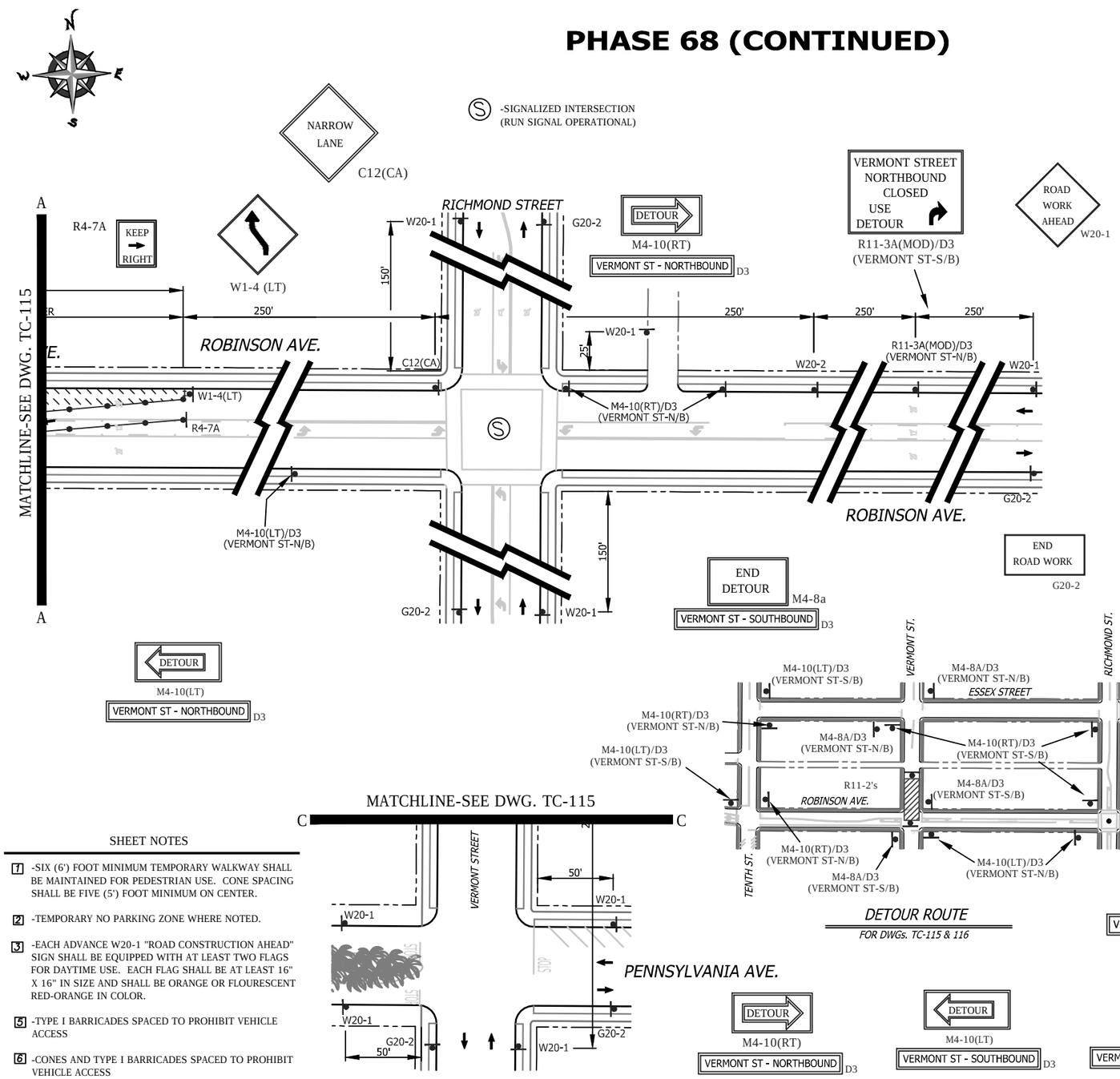
APPROVED Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
36656-T115-D

PHASE 68 (CONTINUED)



SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	N/A	N/A	SEE DWG.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-116

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 68

CITY OF SAN DIEGO, CALIFORNIA
SHEET 116 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

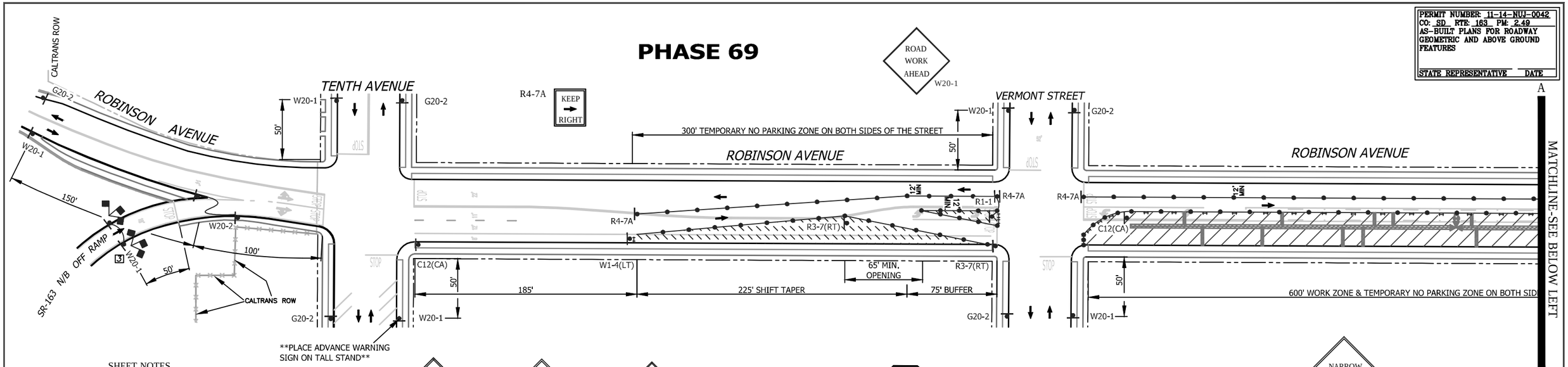
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T116-D

PHASE 69

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

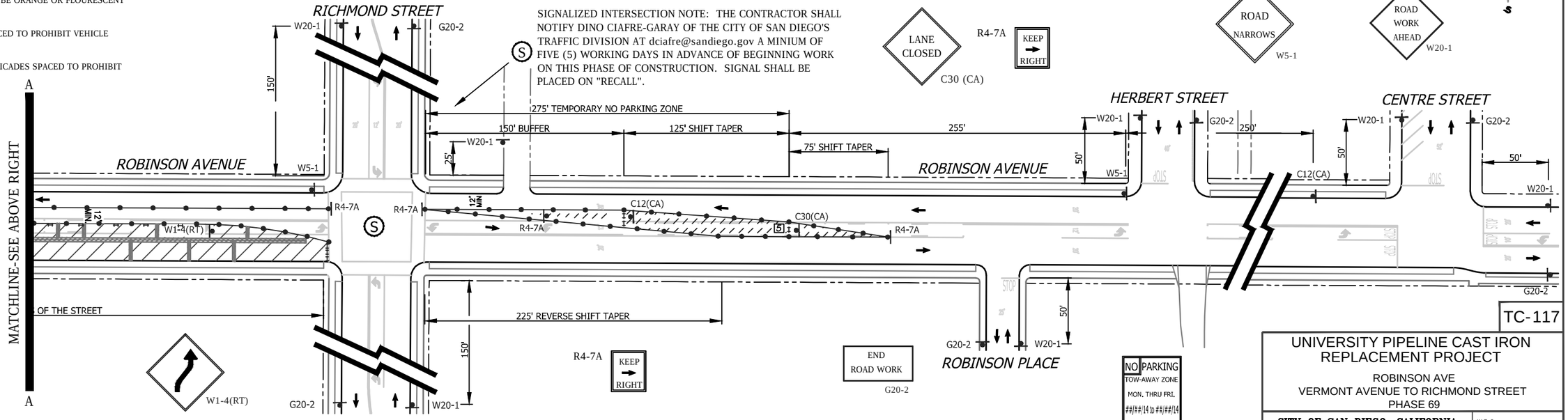
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



TC-117

WORK HOURS:					
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT/RICHMOND ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
VERMONT AVENUE TO RICHMOND STREET
PHASE 69

CITY OF SAN DIEGO, CALIFORNIA
SHEET 117 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

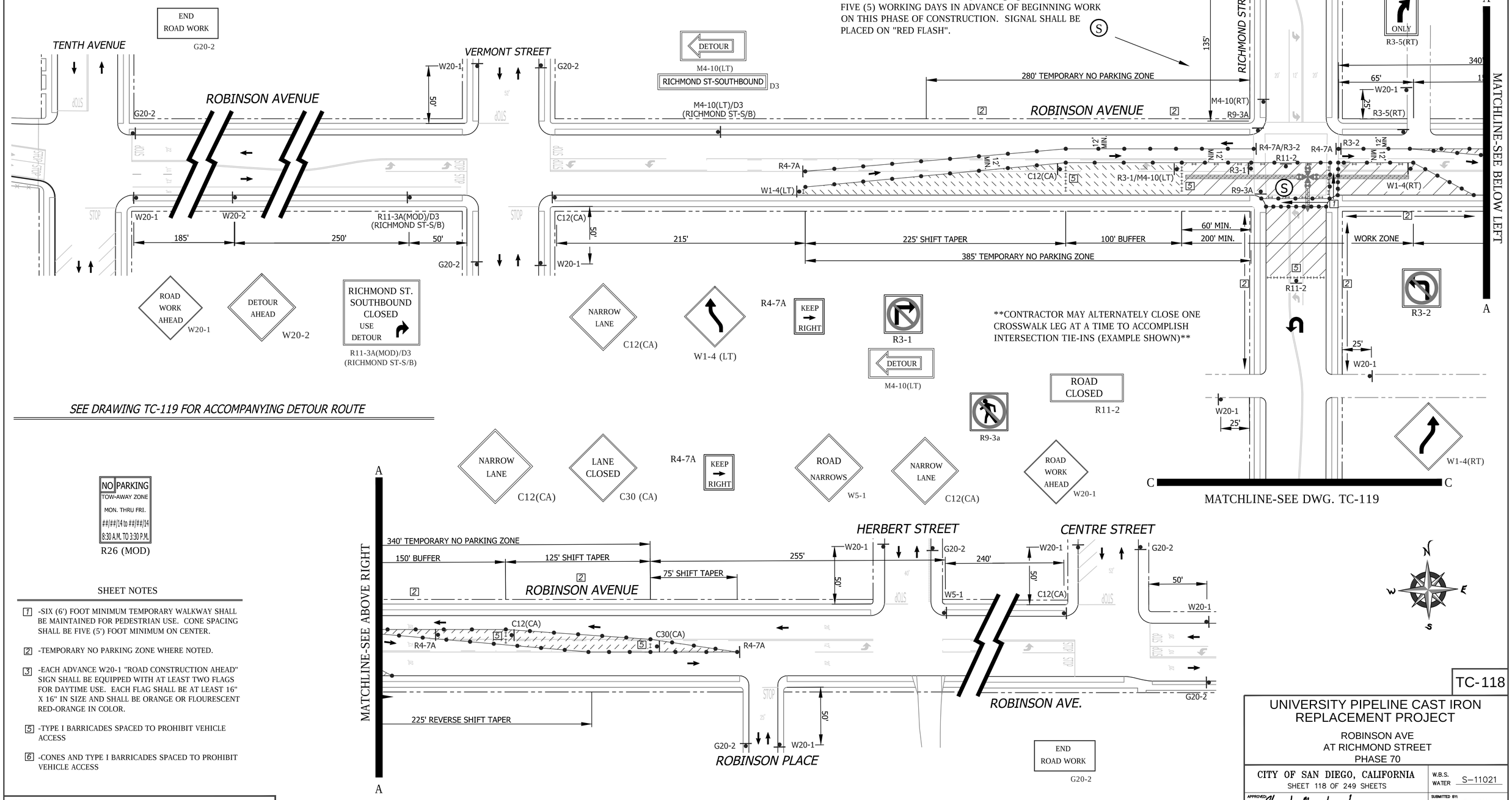
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T117-D

PHASE 70



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

SEE DRAWING TC-119 FOR ACCOMPANYING DETOUR ROUTE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/16/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-118

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 70

CITY OF SAN DIEGO, CALIFORNIA
SHEET 118 OF 249 SHEETS

W.B.S. WATER S-11021

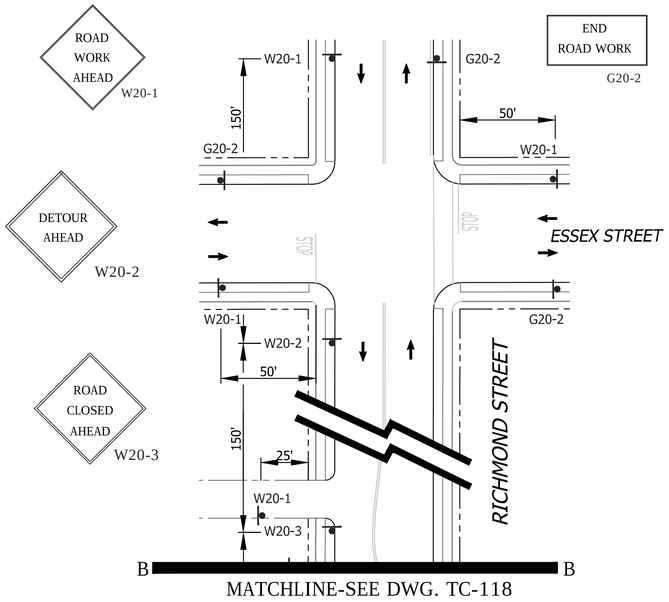
APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED
36656-T118-D

PHASE 70 (CONTINUED)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

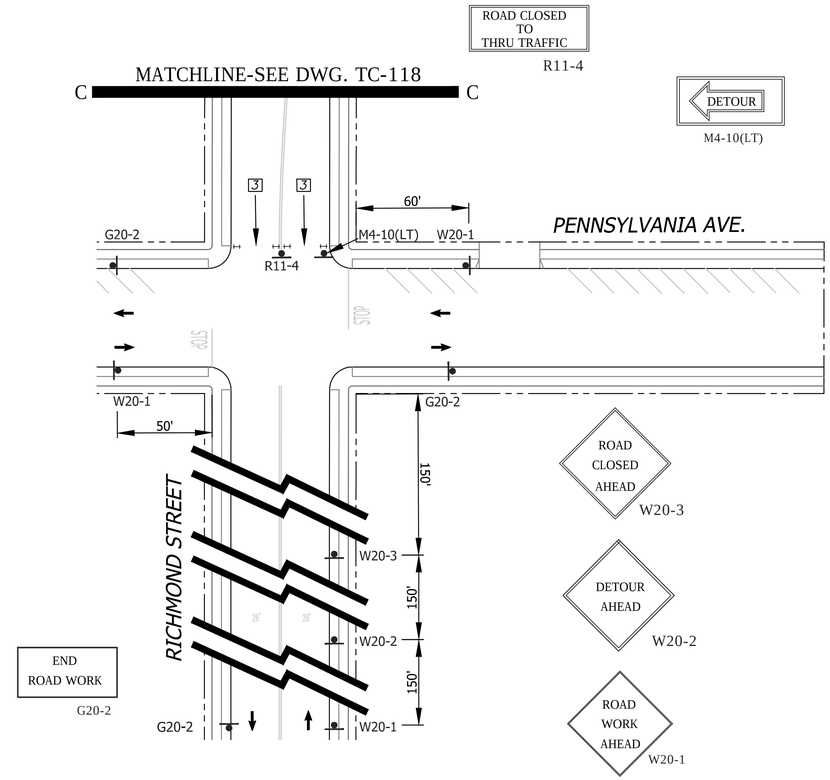
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

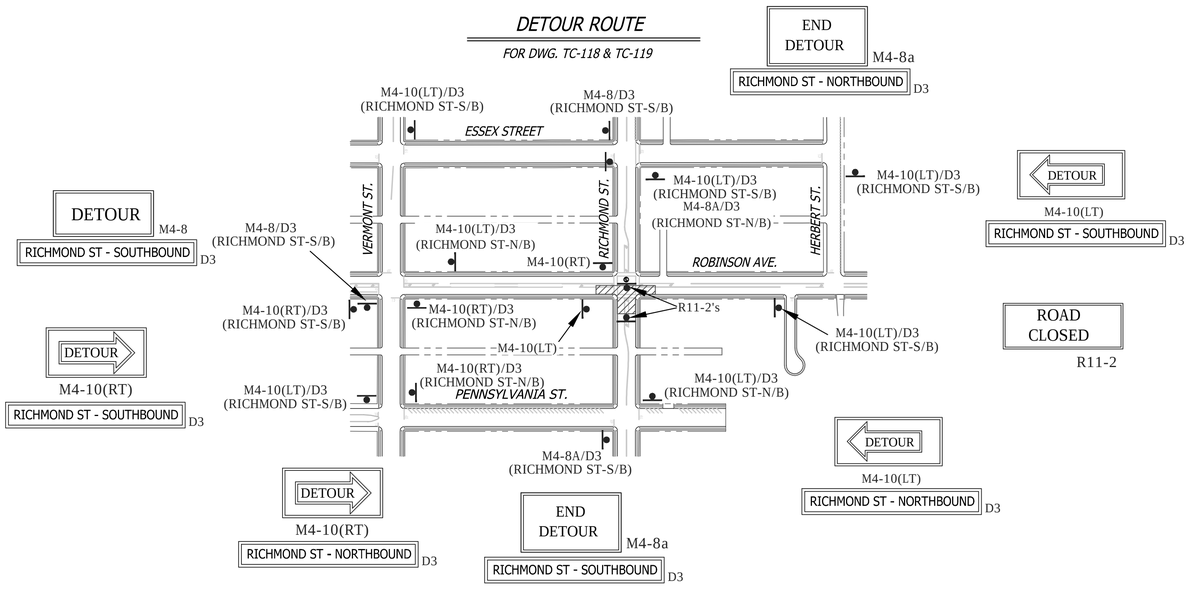
3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

DETOUR ROUTE

FOR DWG. TC-118 & TC-119



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-119

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 70

CITY OF SAN DIEGO, CALIFORNIA
SHEET 119 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

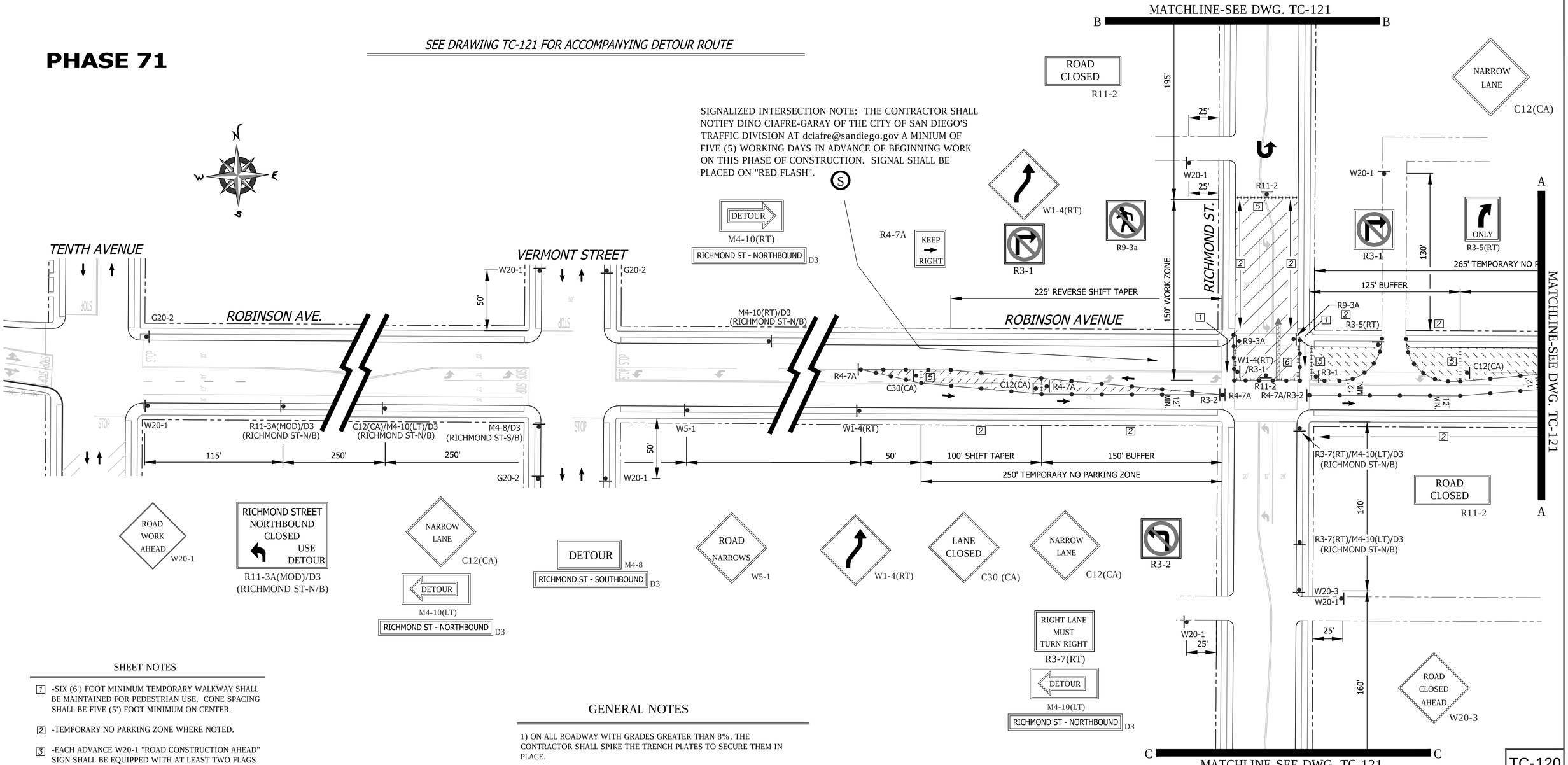
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T119-D

PHASE 71

SEE DRAWING TC-121 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
RICHMOND ST. N/O UNIV.	30	N/A	N/A	200 FT.	25 FT
RICHMOND ST. S/O UNIV.	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-120

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 71

CITY OF SAN DIEGO, CALIFORNIA
SHEET 120 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

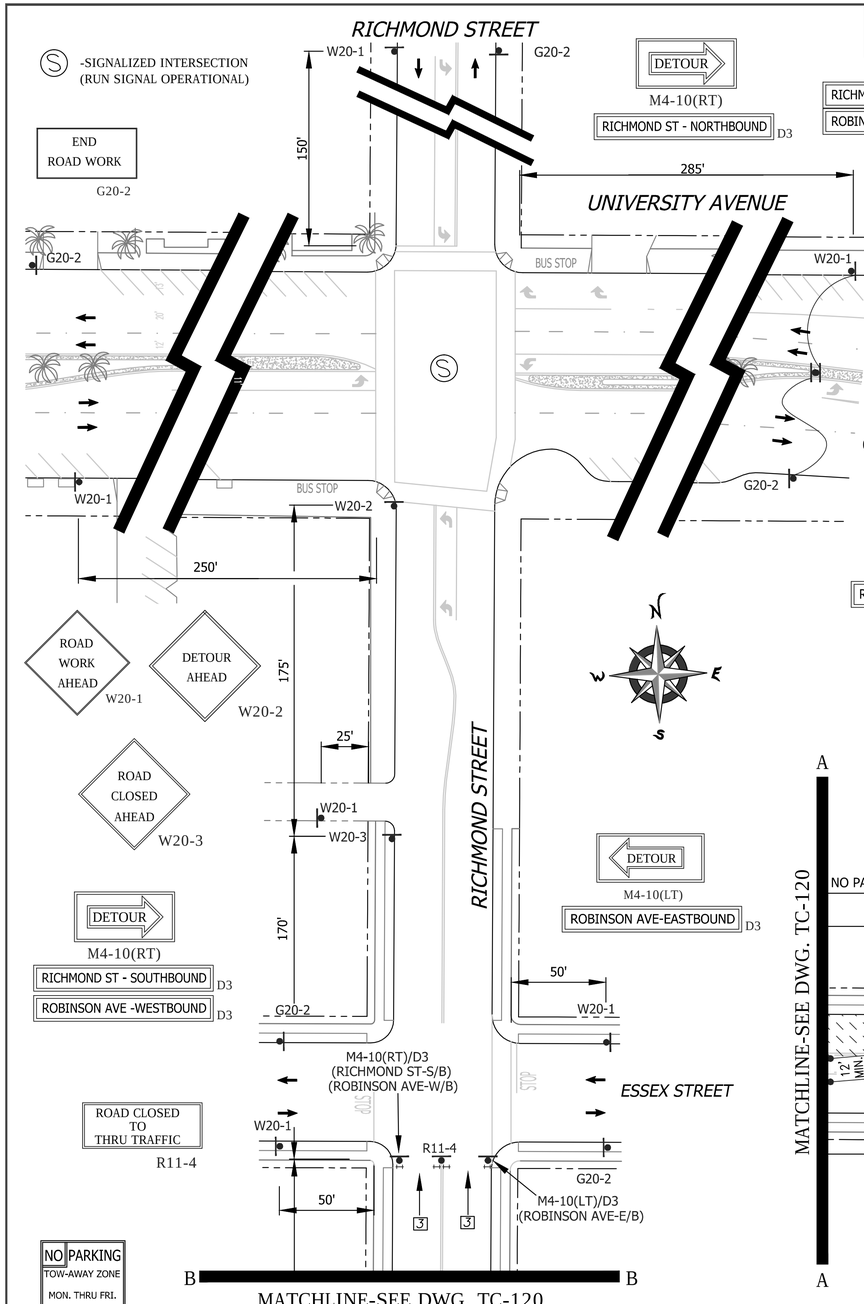
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

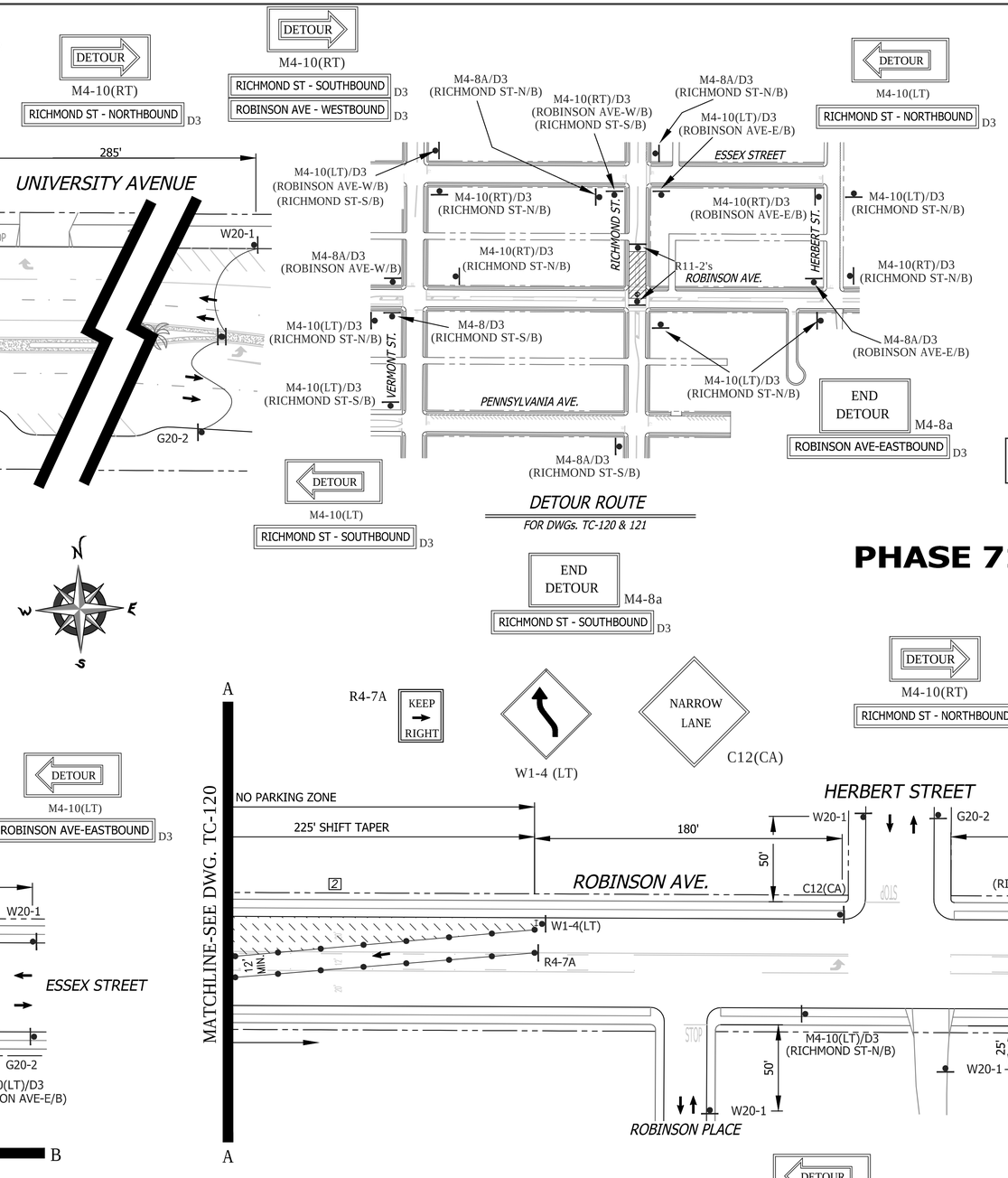
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T120-D

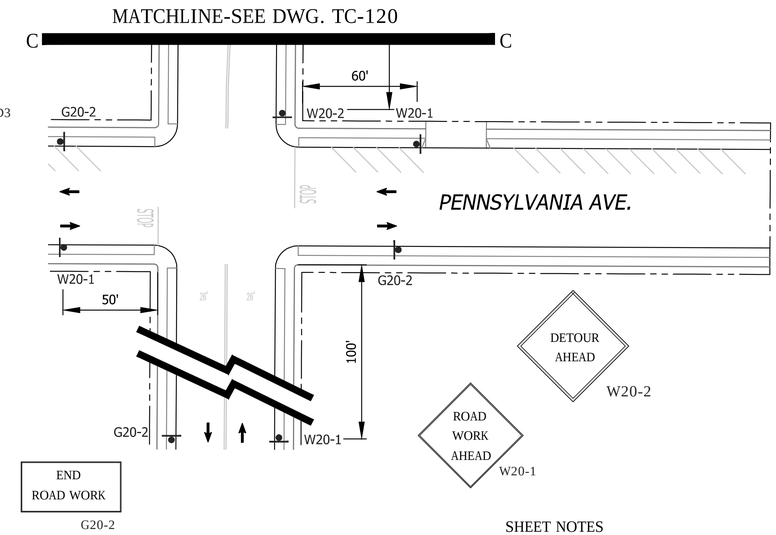
PHASE 71 (CONTINUED)





DETOUR ROUTE

FOR DWGs. TC-120 & 121



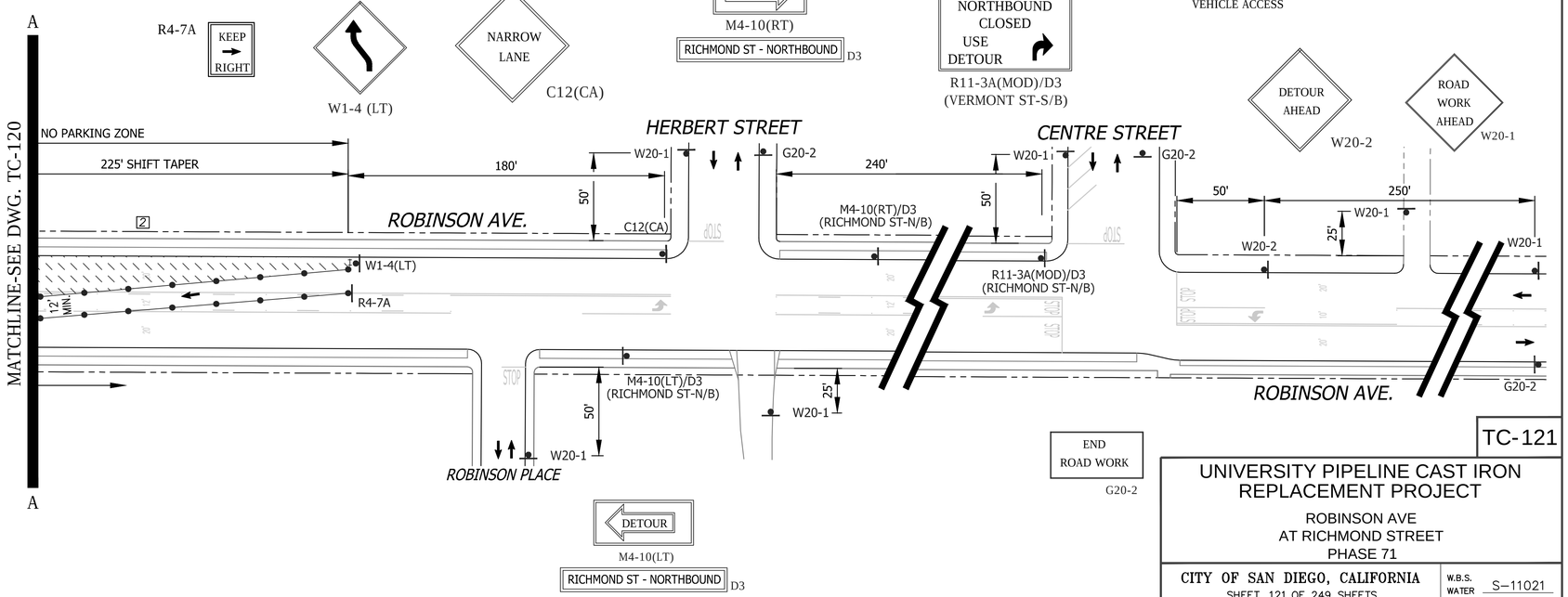
SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



TC-121

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND ST N/O UNIV.	30	N/A	N/A	200 FT.	25 FT
RICHMOND ST S/O UNIV.	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 71

CITY OF SAN DIEGO, CALIFORNIA
SHEET 121 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

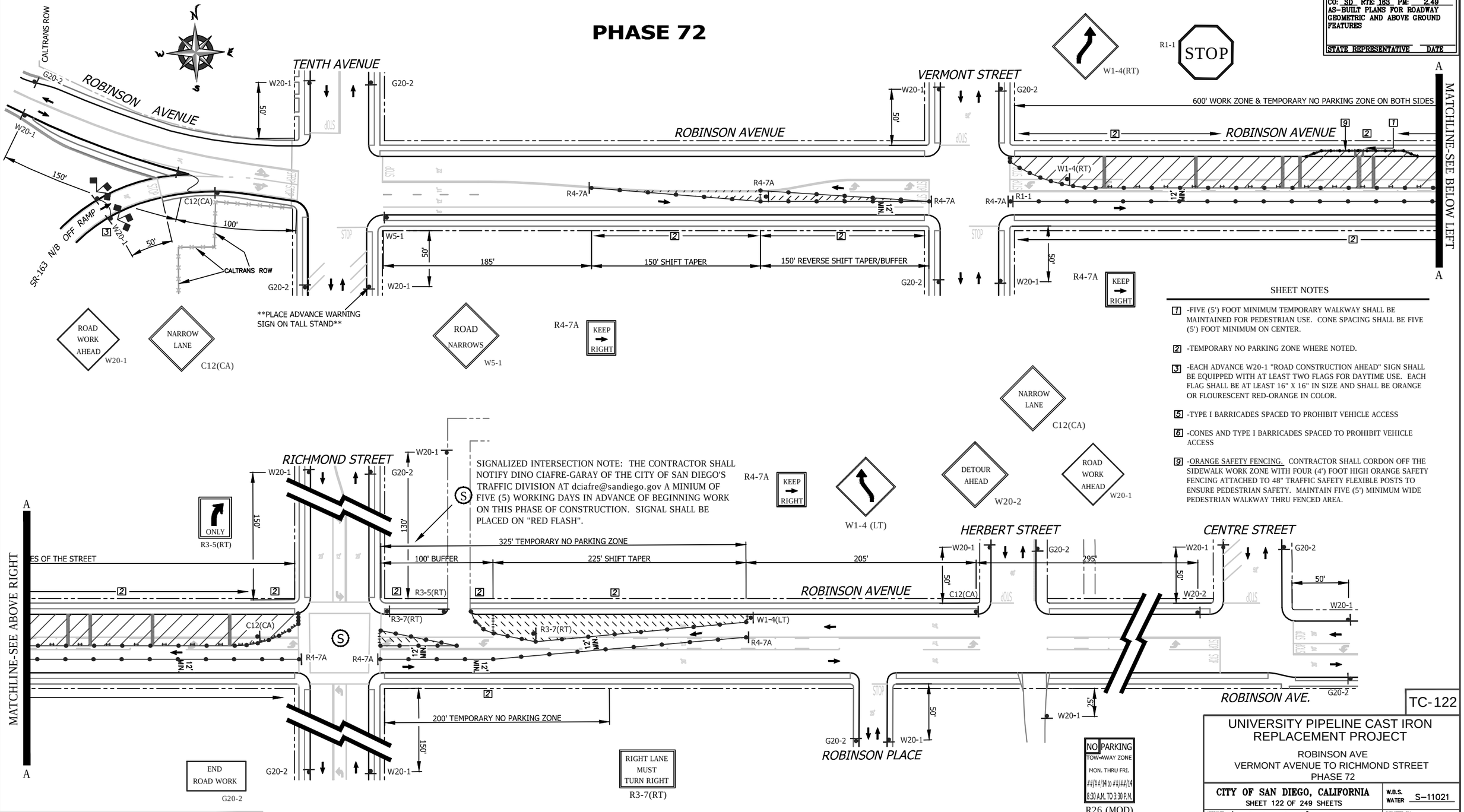
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T121-D

PHASE 72

PERMIT NUMBER 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

[1] -FIVE (5') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[9] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

WORK HOURS:

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT/RICHMOND ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/08/2014 | BY:DoB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-122

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
VERMONT AVENUE TO RICHMOND STREET
PHASE 72

CITY OF SAN DIEGO, CALIFORNIA
SHEET 122 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

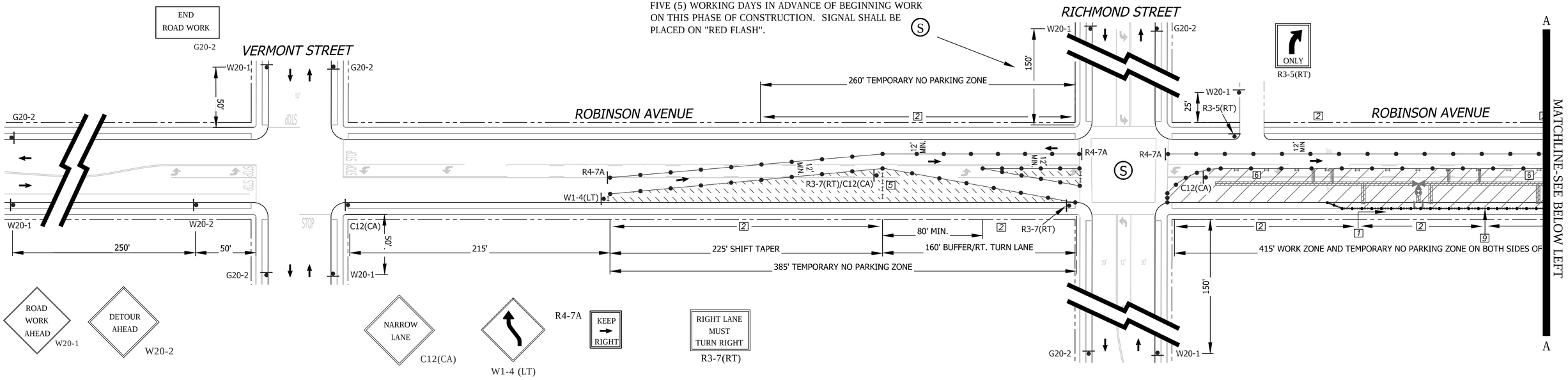
SUBMITTED BY
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

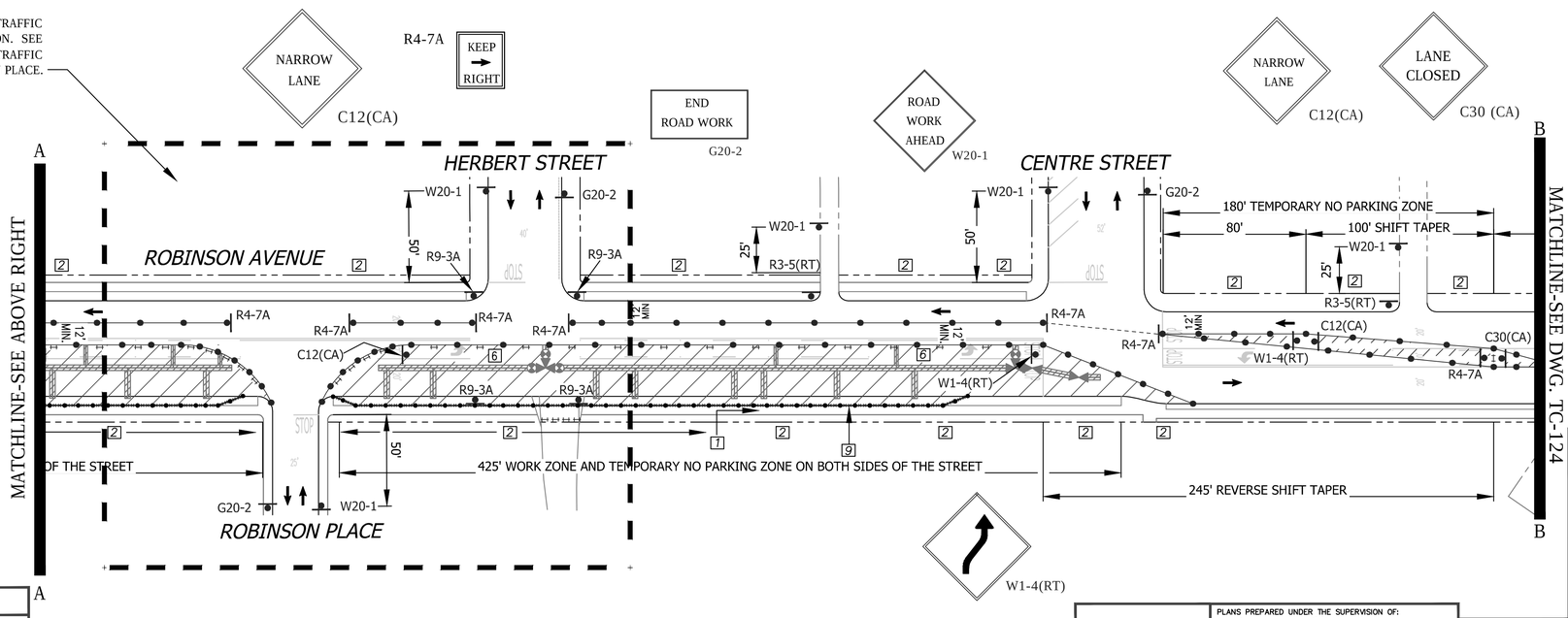
36656-T122-D

PHASE 73

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DETAIL "A" ON SHEET TC-122 FOR TRAFFIC CONTROL SETUP FOR THIS INTERSECTION. SEE DWG. TC-122 (LOWER RIGHT) FOR TRAFFIC CONTROL SETUP FOR ROBINSON PLACE.



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[9] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	SEE DWG.	25 FT
HERBERT/CENTRE ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-123

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO HERBERT STREET
PHASE 73

CITY OF SAN DIEGO, CALIFORNIA
SHEET 123 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T123-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

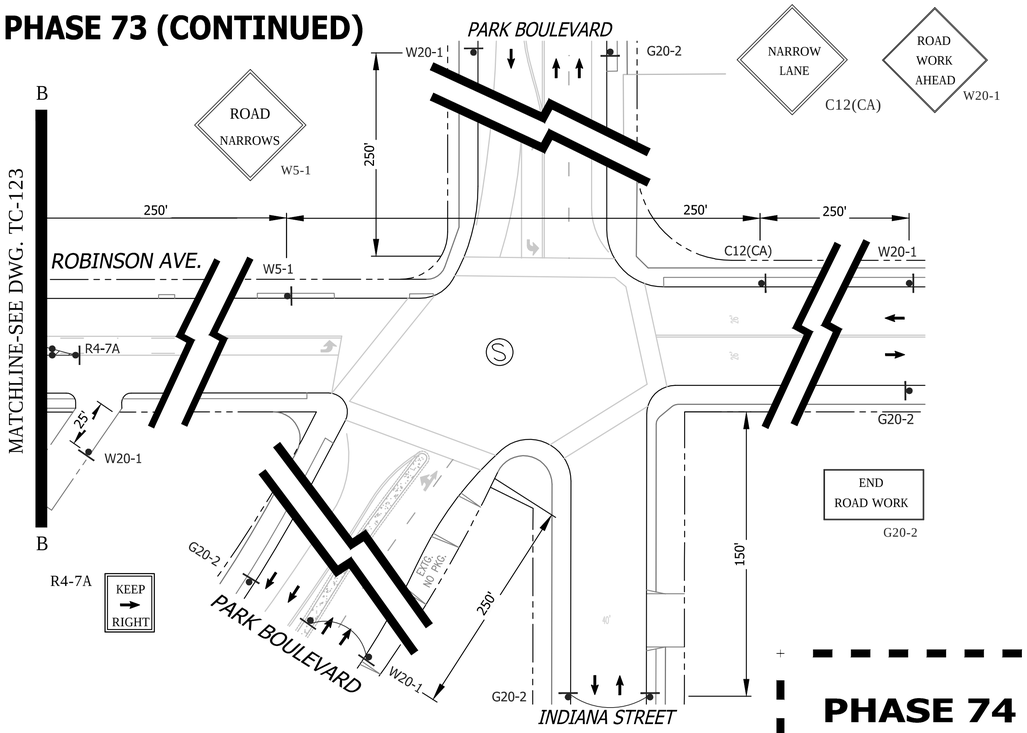
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

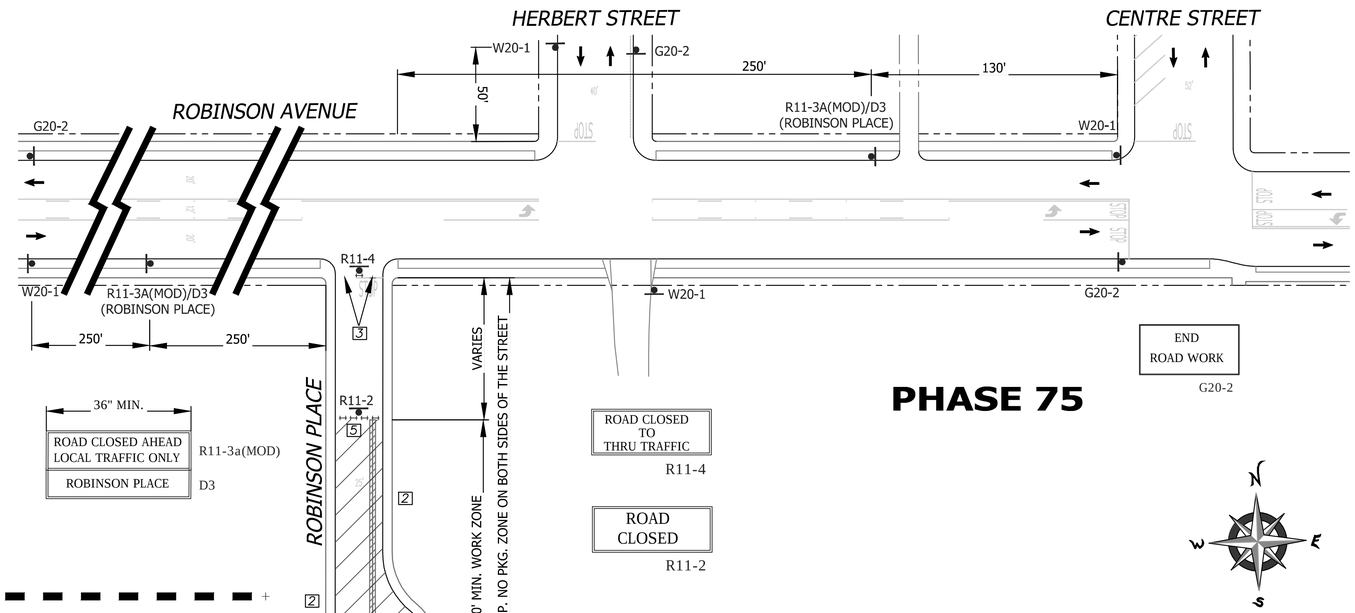
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

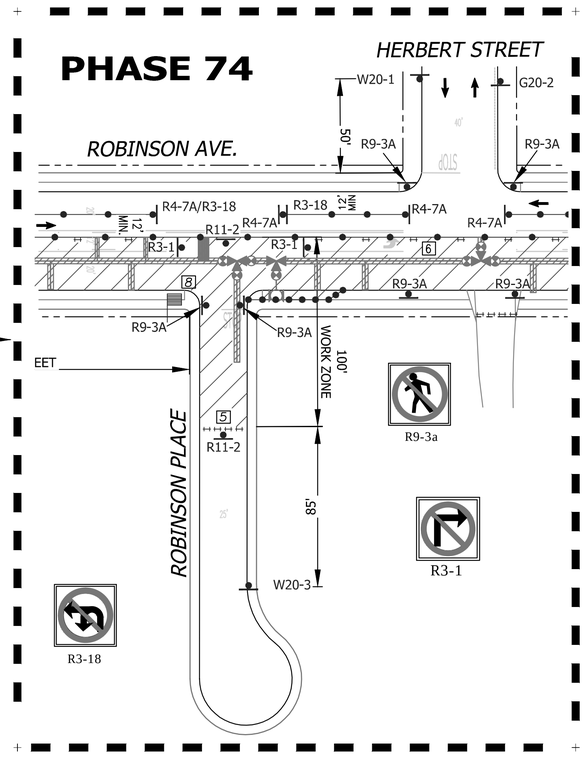
DWG NAME:130601-TC-1A | DATE:06/16/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 73 (CONTINUED)







SHEET NOTES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT THRU OR AROUND THE WORK ZONE.

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

CONTRACTOR SHALL PROVIDE FOR LOCAL ACCESS TO ROBINSON PLACE WHEN CONSTRUCTION ALLOWS. ONCE TRENCH AND PIPELINE HAS CLEARED THE LIMIT LINE ON ROBINSON PLACE THE CONTRACTOR SHALL PLATE AND MAINTAIN ACCESS TO ROBINSON PLACE. (SEE ABOVE RIGHT FOR TRAFFIC CONTROL SETUP FOR ROBINSON PLACE.)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-124

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/16/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO HEBERT STREET
PHASE 73, 74, & 75

CITY OF SAN DIEGO, CALIFORNIA
SHEET 124 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

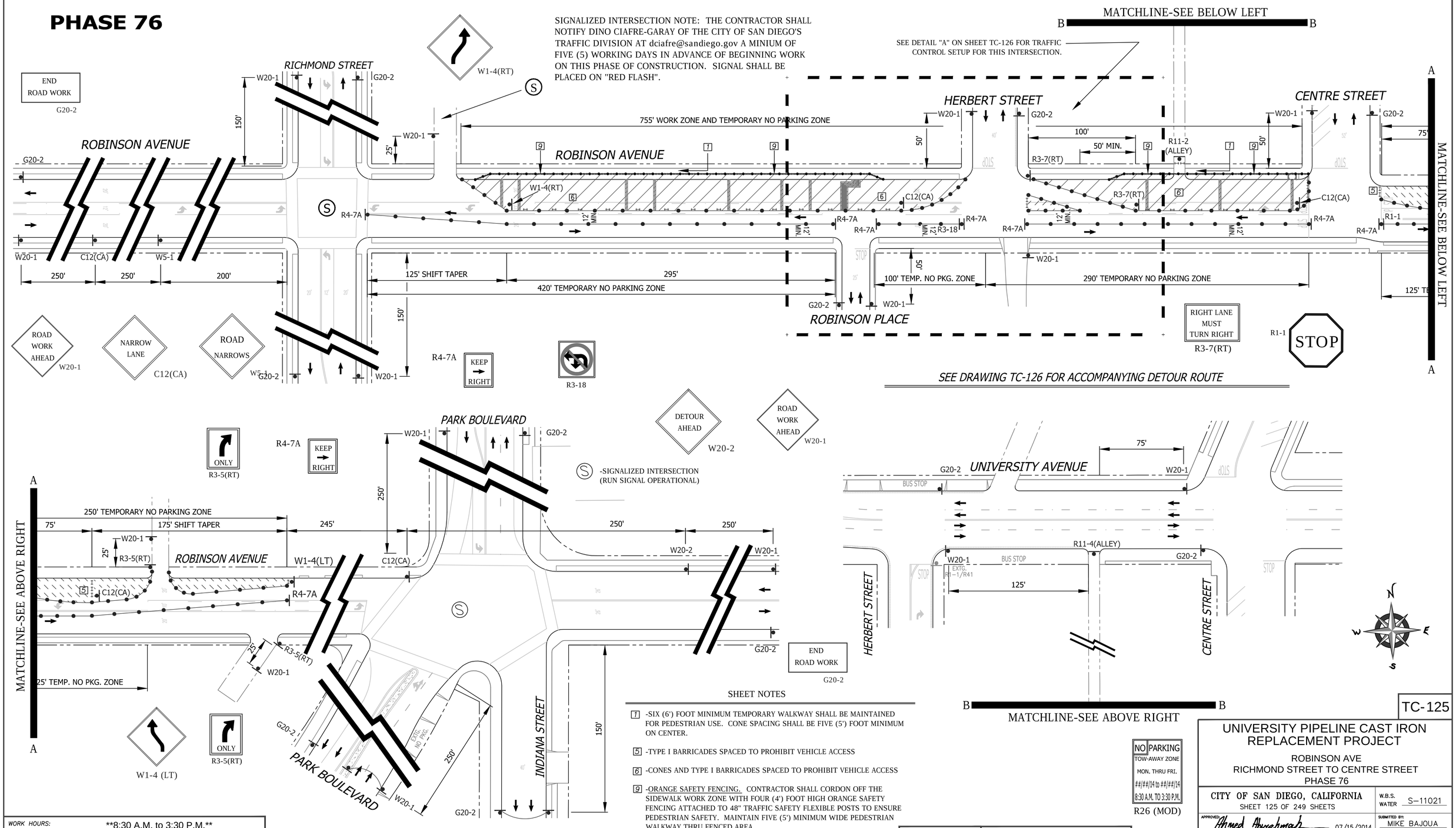
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T124-D

PHASE 76

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/16/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-125

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO CENTRE STREET
PHASE 76

CITY OF SAN DIEGO, CALIFORNIA
SHEET 125 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
36656-T125-D

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 76 (CONTINUED)

ROAD WORK AHEAD W20-1

NARROW LANE C12(CA)

ROAD NARROWS W5-1

R4-7A KEEP → RIGHT

R9-3a

SHEET NOTES

7 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

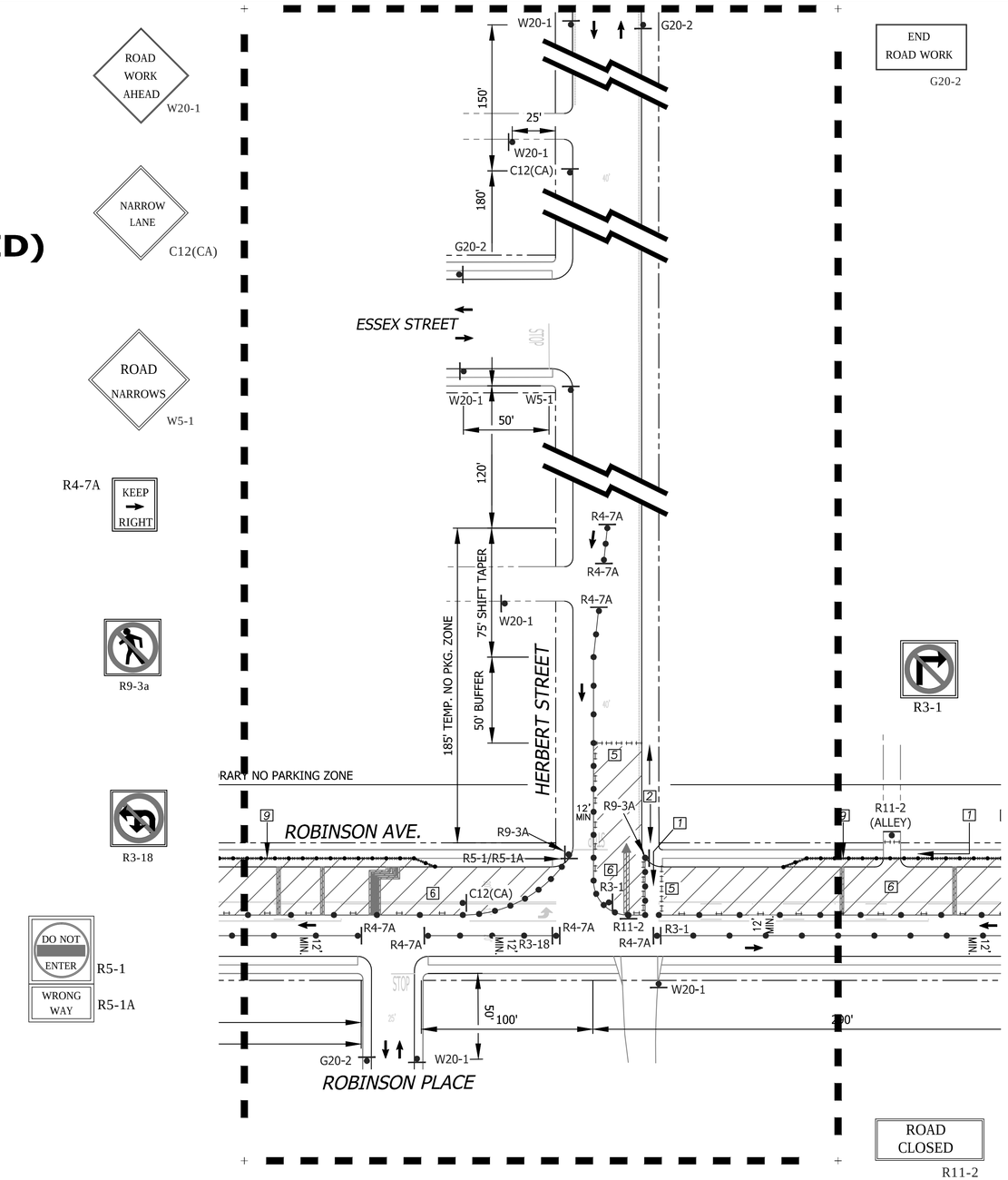
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



DETAIL "A"

(TRAFFIC CONTROL FOR LATERAL TIE-IN AT HERBERT STREET)

R3-18

DO NOT ENTER R5-1

WRONG WAY R5-1A

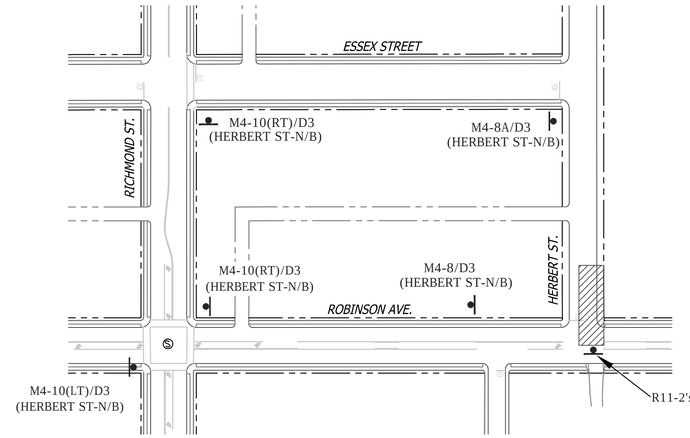
END ROAD WORK G20-2

R3-1

ROAD CLOSED R11-2

DETOUR M4-10(RT) HERBERT ST - NORTHBOUND D3

END DETOUR M4-8a HERBERT ST - NORTHBOUND D3



DETOUR ROUTE

FOR DWG. TC-125 & TC-126

DETOUR M4-8 HERBERT ST - NORTHBOUND D3

ALLEY CLOSED R11-2(ALLEY)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT STREET	25	SEE DWG.		150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

BILL E. DARNELL 07/15/2014 DATE

BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/16/2014 | BY:DaB

SCALE: 1" = 40'

VERT: N/A

HOR: 1" = 40'

0 1/2 1

EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-126

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO CENTRE STREET
PHASE 76

CITY OF SAN DIEGO, CALIFORNIA
SHEET 126 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

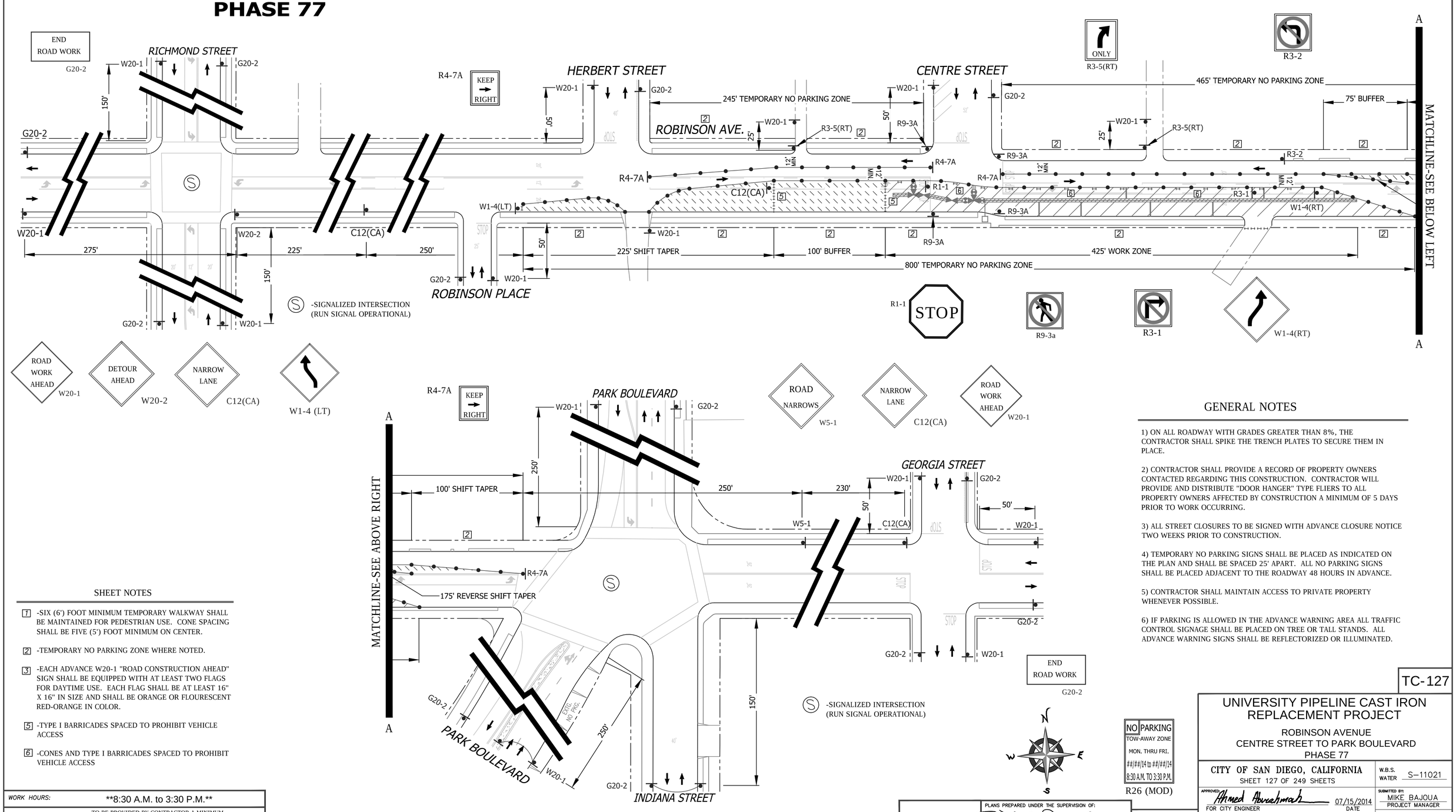
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T126-D

PHASE 77



SHEET NOTES

7 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-127

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 77

CITY OF SAN DIEGO, CALIFORNIA
SHEET 127 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T127-D

PHASE 78

SHEET NOTES

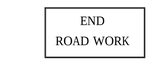
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

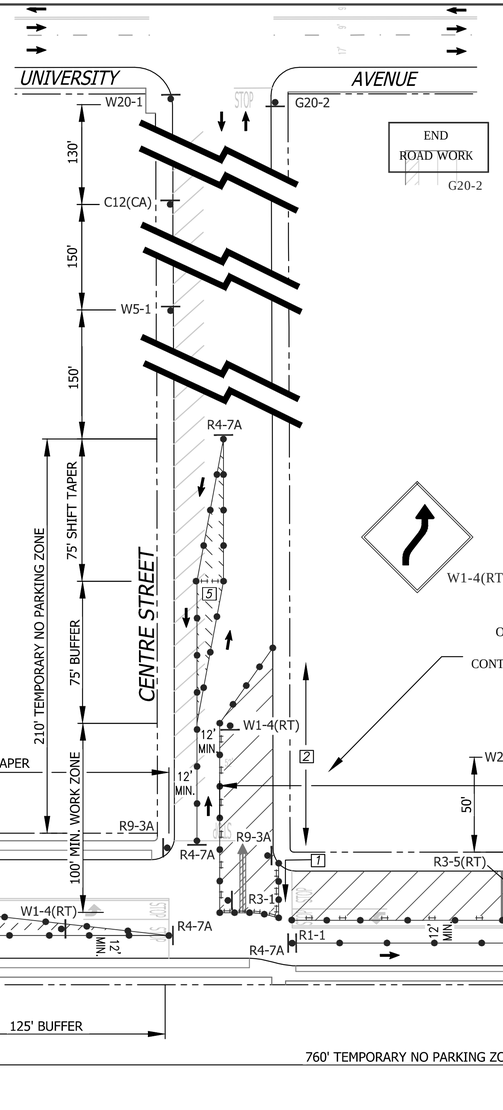
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

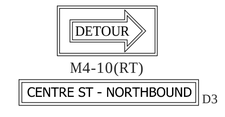
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

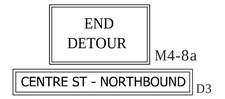
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

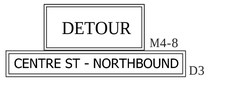
9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

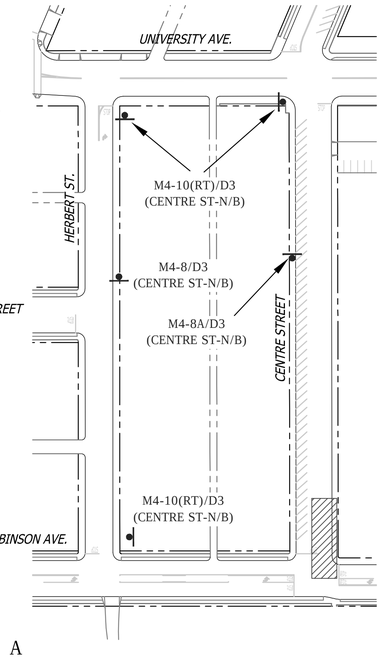












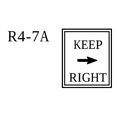
A

DETOUR ROUTE

FOR DWG. TC-128 & TC-129

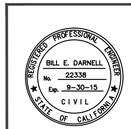
MATCHLINE-SEE DWG. TC-129

A



R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT



PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'

VERT: N/A
HOR: 1" = 40'

0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-128

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 78

CITY OF SAN DIEGO, CALIFORNIA
SHEET 128 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

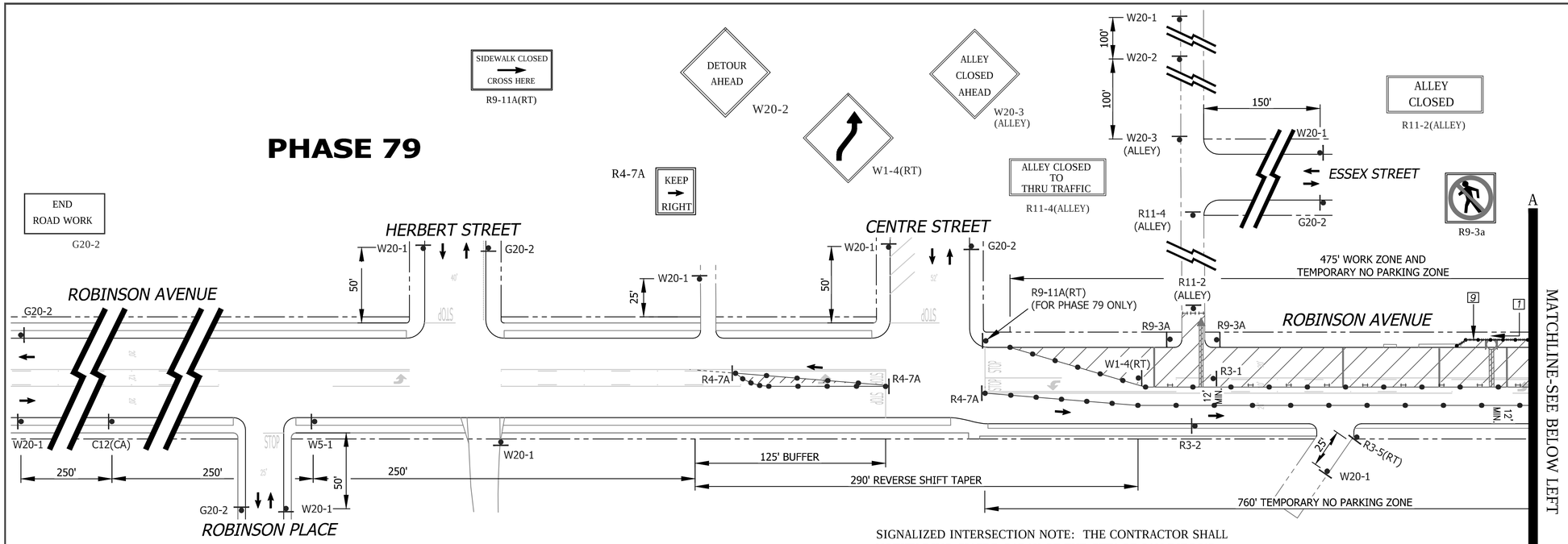
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T128-D

PHASE 79



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RECALL".

R3-2 R3-1 ONLY R3-5(RT)

ROAD WORK AHEAD W20-1 NARROW LANE C12(CA) ROAD NARROWS W5-1

SHEET NOTES

7 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

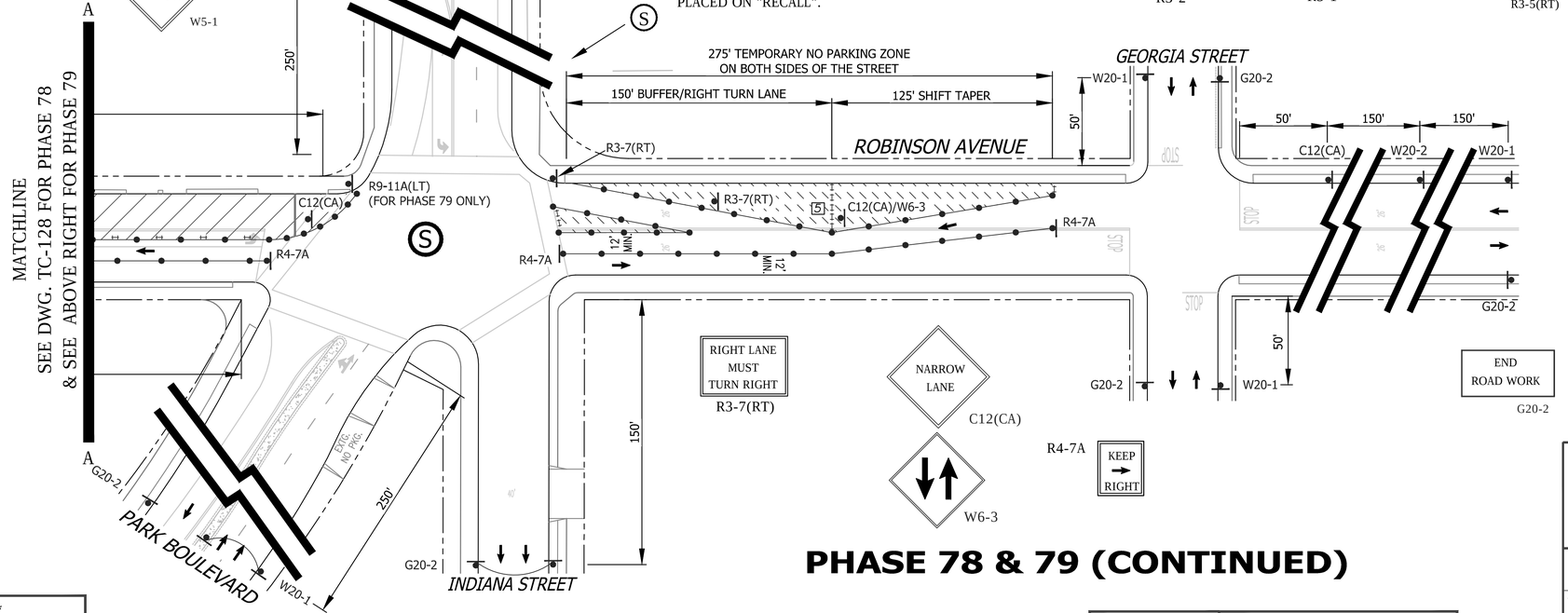
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SIDEWALK CLOSED CROSS HERE
R9-11A(LT)



ROAD WORK AHEAD W20-1 NARROW LANE C12(CA) DETOUR AHEAD W20-2

PHASE 78 & 79 (CONTINUED)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-129

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 78 & 79

CITY OF SAN DIEGO, CALIFORNIA
SHEET 129 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T129-D

PHASE 80

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

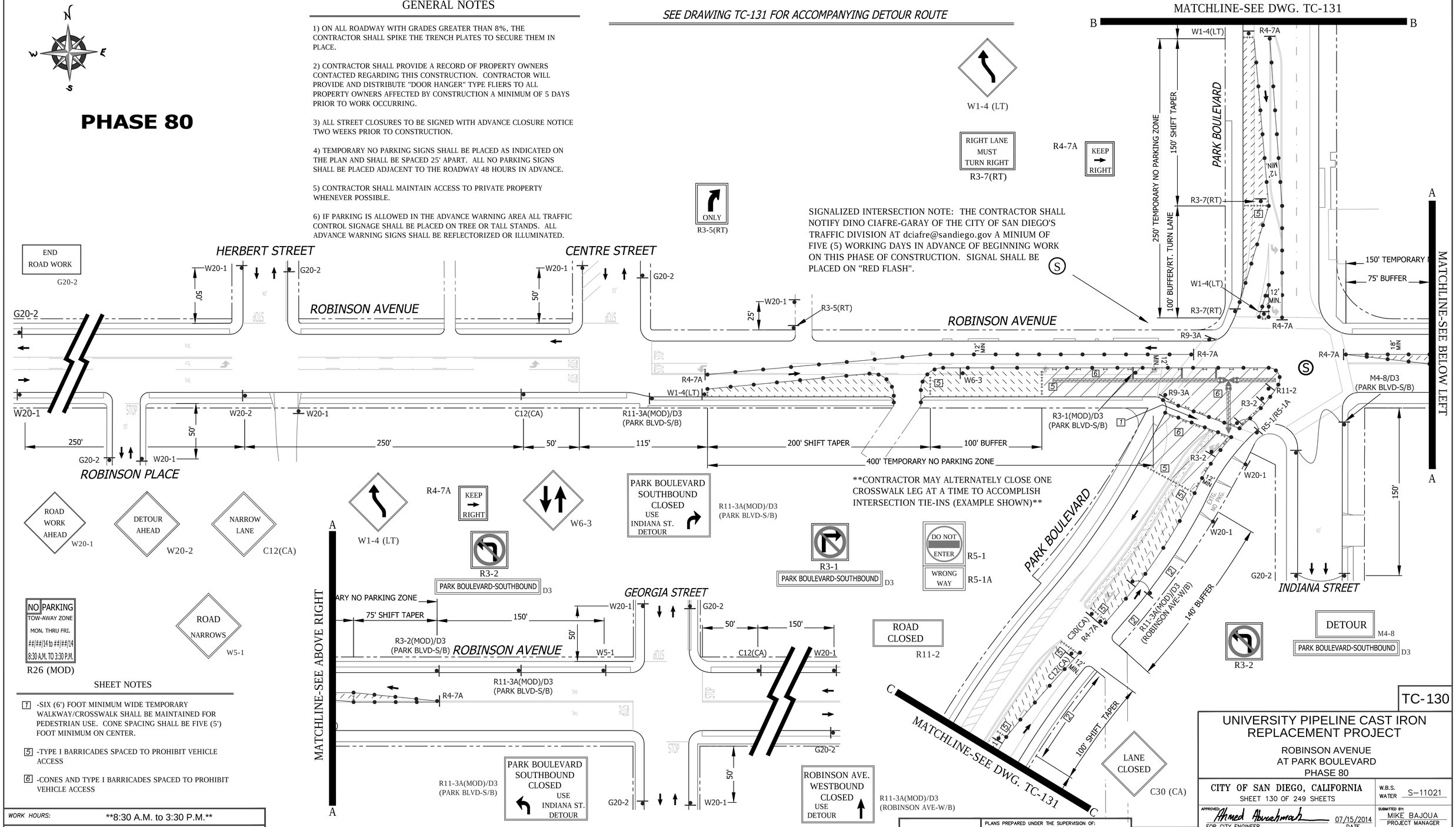
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SEE DRAWING TC-131 FOR ACCOMPANYING DETOUR ROUTE



SHEET NOTES

[7] -SIX (6') FOOT MINIMUM WIDE TEMPORARY WALKWAY/CROSSWALK SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-130

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 80

CITY OF SAN DIEGO, CALIFORNIA
SHEET 130 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

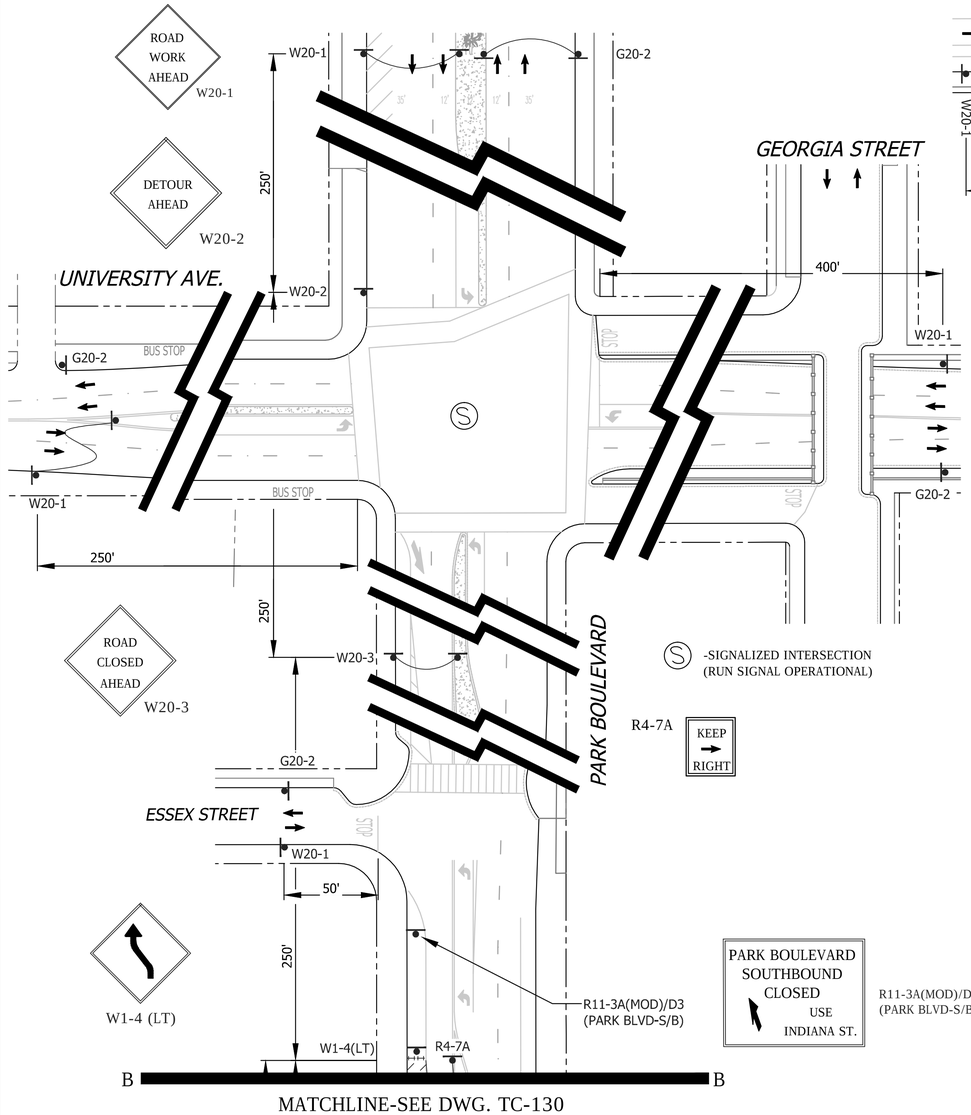
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T130-D

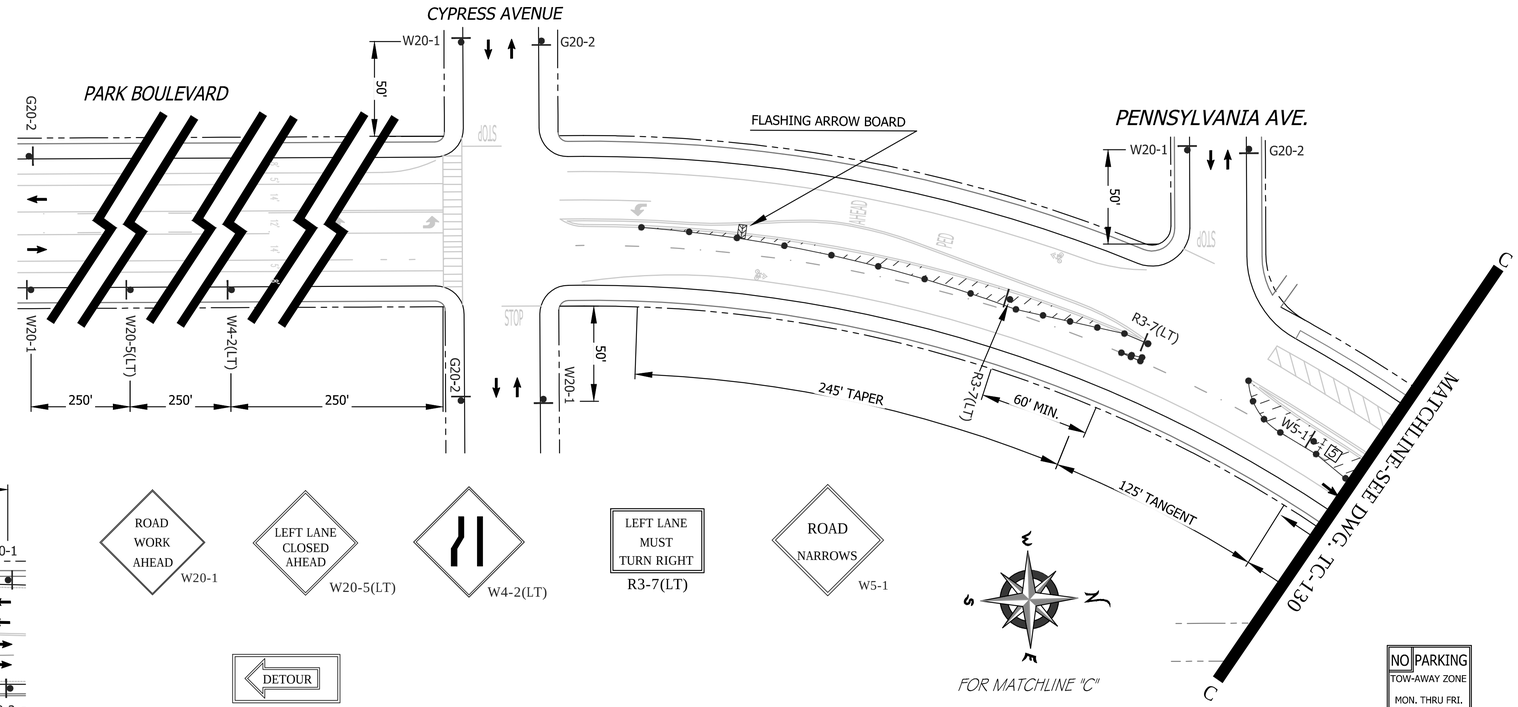
PHASE 80

FOR MATCHLINE "B"



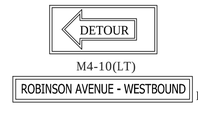
-SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

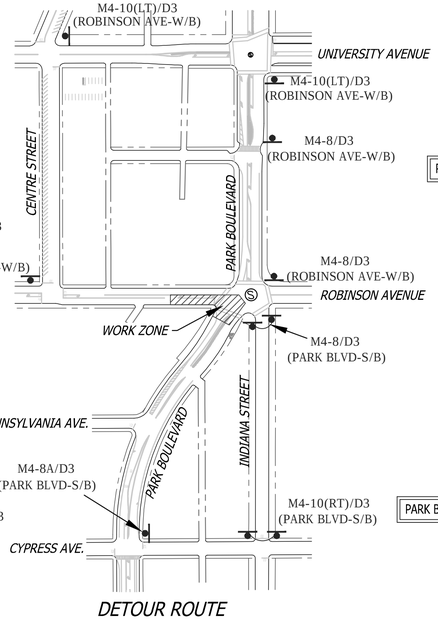
MATCHLINE-SEE DWG. TC-130



FOR MATCHLINE "C"

R26 (MOD)





FOR DETOUR ROUTE
SCALE:NONE

END DETOUR
M4-8a
ROBINSON AVENUE - WESTBOUND
D3

M4-8A/D3
(ROBINSON AVE-W/B)

END DETOUR
M4-8a
PARK BOULEVARD - SOUTHBOUND
D3

DETOUR
M4-8
ROBINSON AVENUE - WESTBOUND
D3

DETOUR
M4-8
PARK BOULEVARD - SOUTHBOUND
D3

DETOUR
M4-10(RT)
PARK BOULEVARD - SOUTHBOUND
D3

DETOUR ROUTE
FOR DWGs. TC-130 & TC-131

SHEET NOTES

1 -SIX (6') FOOT MINIMUM WIDE TEMPORARY WALKWAY/CROSSWALK SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVENUE	35	N/A	N/A	250 FT.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-131

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 80

CITY OF SAN DIEGO, CALIFORNIA
SHEET 131 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T131-D

PHASE 81

MATCHLINE-SEE DWG. TC-133

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

ESSEX STREET

CENTRE STREET

GEORGIA STREET

ROBINSON AVENUE

PARK BOULEVARD

INDIANA STREET

ROBINSON AVE. EASTBOUND CLOSED
USE CYPRESS AVE. DETOUR
R11-3A(MOD)/D3 (ROBINSON AVE-E/B)

225' TEMPORARY NO PARKING ZONE

75' BUFFER | 75' SHIFT TAPER | 90'

120' TURN LANE CLOSURE

150' BUFFER

100' MIN. SHIFT TAPER

245' TAPER

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

SEE DRAWING TC-133 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

7 -SIX (6') FOOT MINIMUM WIDE TEMPORARY WALKWAY/CROSSWALK SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

TC-132

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 81

CITY OF SAN DIEGO, CALIFORNIA
SHEET 132 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

210-1719
CCS27 COORDINATE

185044-6280407
CCS83 COORDINATE

36656-T132-D

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

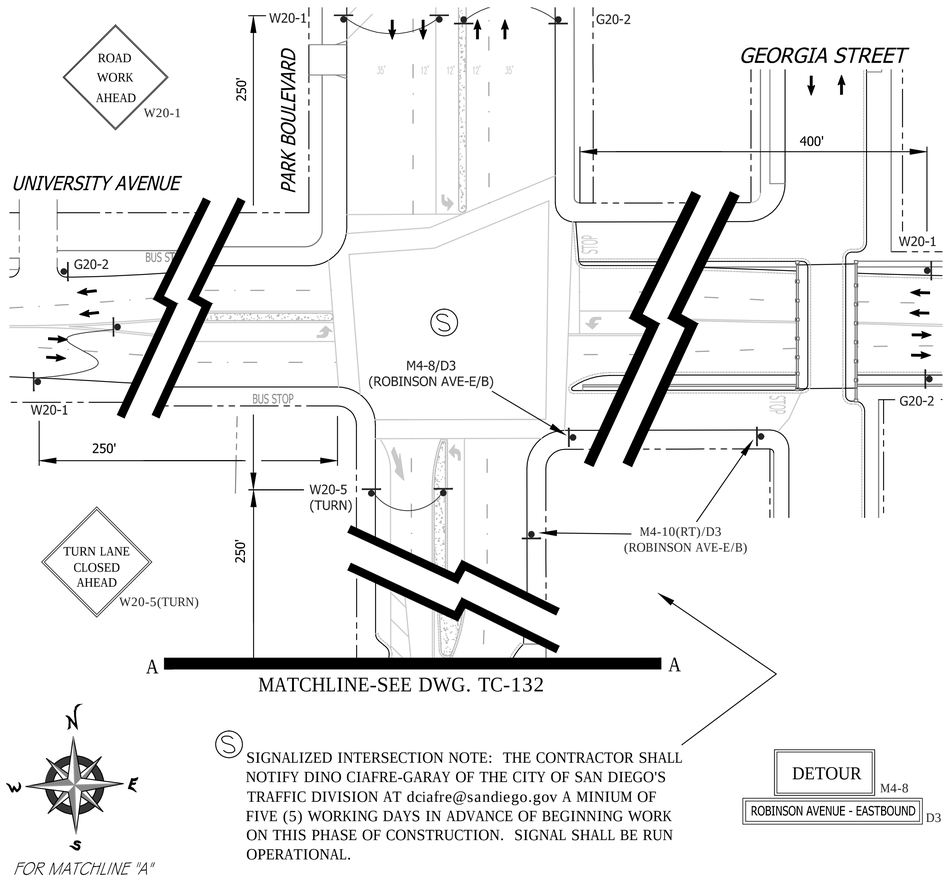
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

FOR MATCHLINE "A"

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

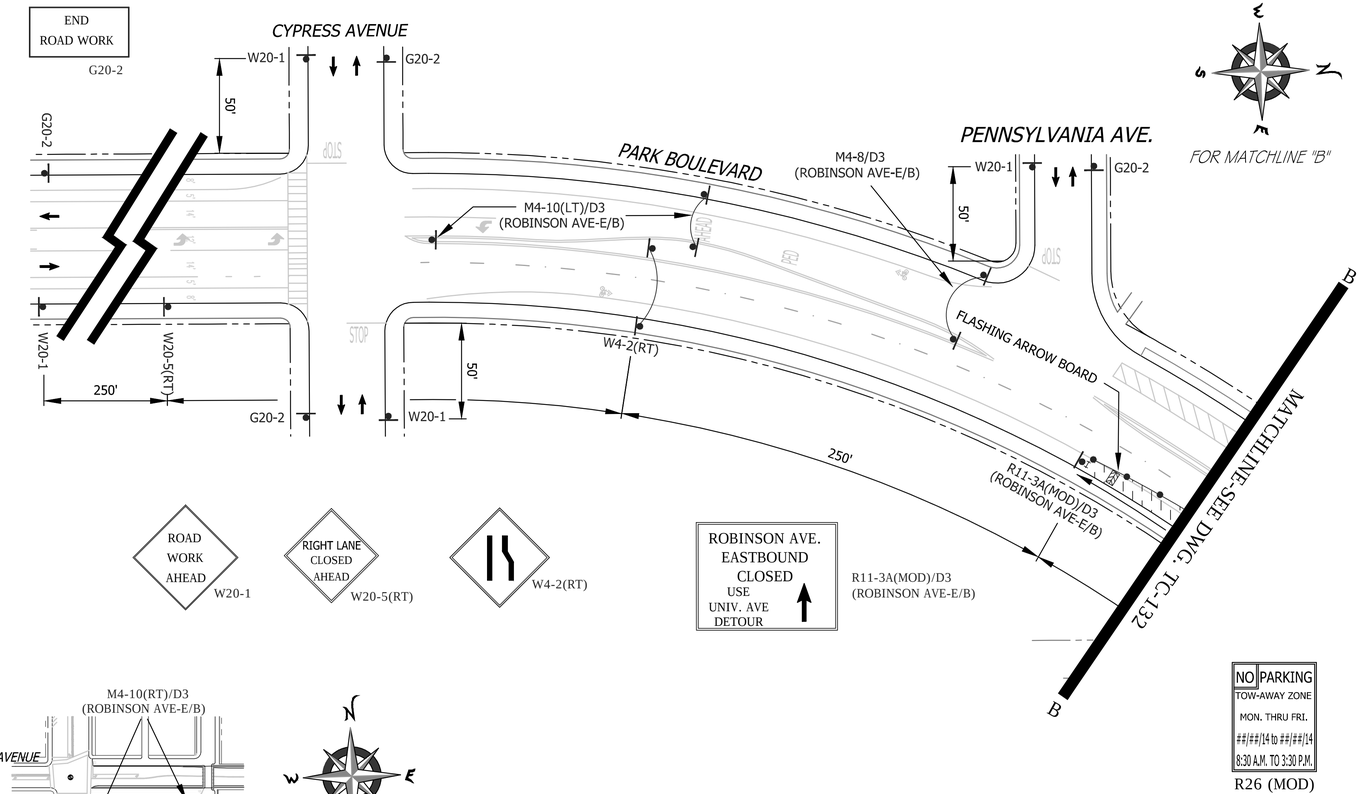
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

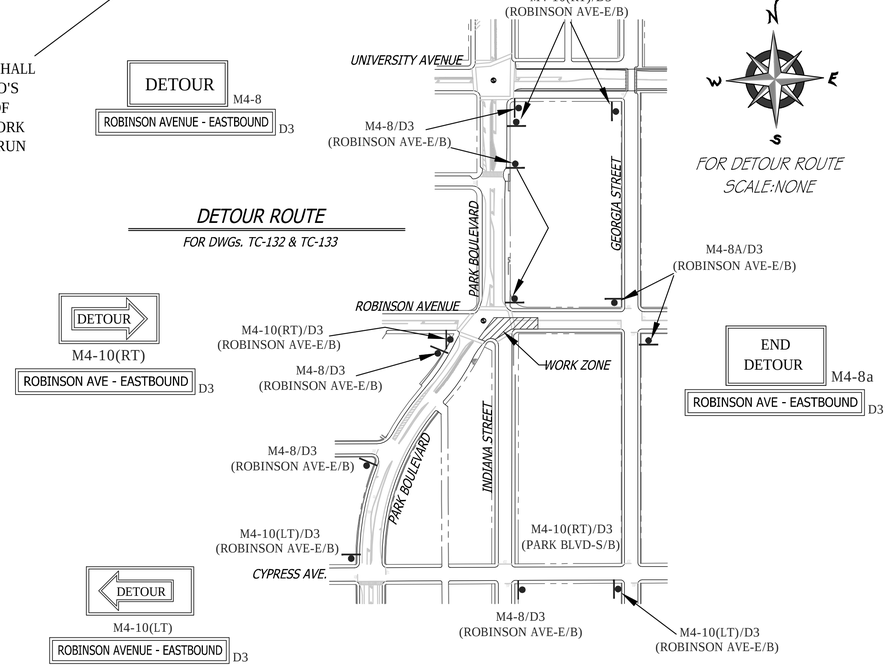
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVENUE	35	N/A	N/A	250 FT.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT





DETOUR
M4-8
ROBINSON AVENUE - EASTBOUND
D3

DETOUR
M4-10(RT)
ROBINSON AVE - EASTBOUND
D3

DETOUR
M4-10(LT)
ROBINSON AVENUE - EASTBOUND
D3

END DETOUR
M4-8a
ROBINSON AVE - EASTBOUND
D3

DETOUR ROUTE
FOR DWGs. TC-132 & TC-133

FOR DETOUR ROUTE
SCALE:NONE

PHASE 81 (CONTINUED)

TC-133

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 81

CITY OF SAN DIEGO, CALIFORNIA
SHEET 133 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T133-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 82

SEE DRAWING TC-135 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

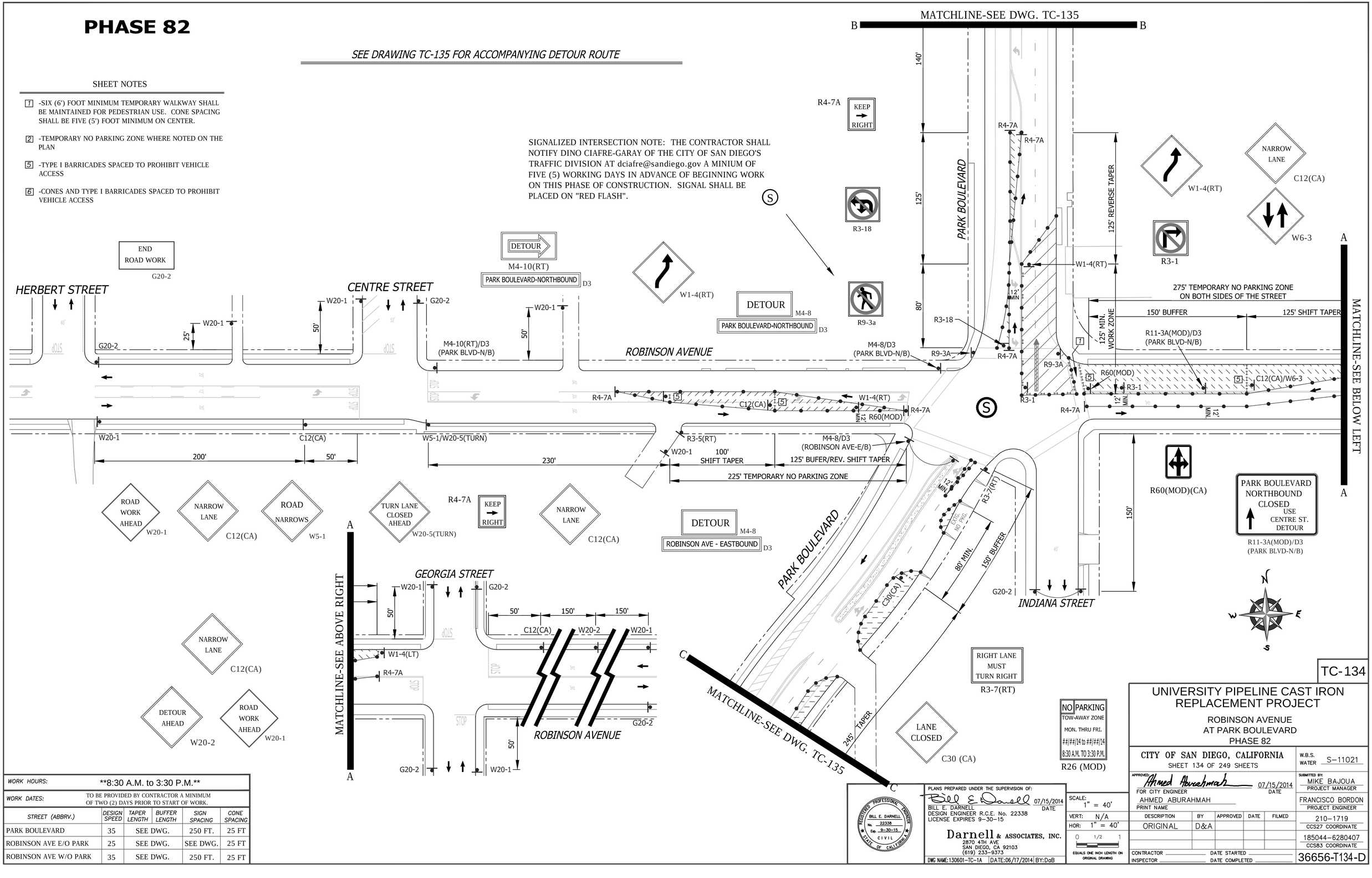
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



WORK HOURS:	**8:30 A.M. to 3:30 P.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	SEE DWG.	250 FT.	25 FT
ROBINSON AVE E/O PARK	25	SEE DWG.	SEE DWG.	25 FT
ROBINSON AVE W/O PARK	35	SEE DWG.	250 FT.	25 FT

TC-134

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 82

CITY OF SAN DIEGO, CALIFORNIA
SHEET 134 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T134-D

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

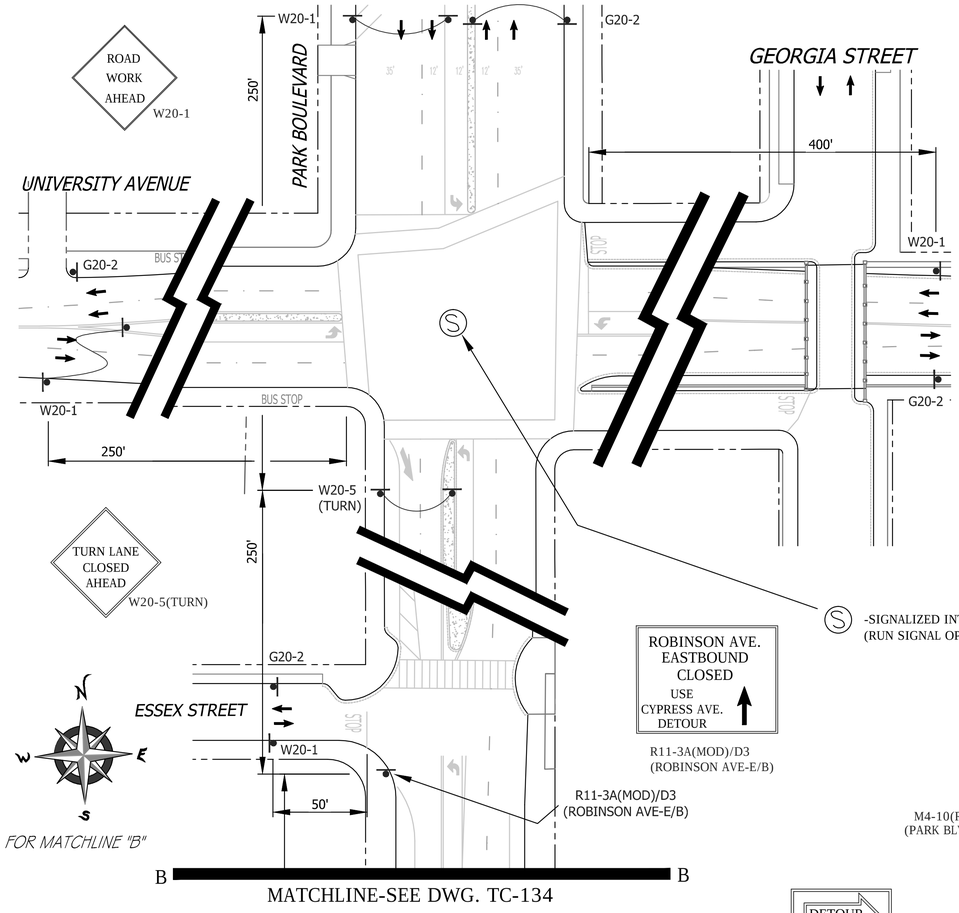
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

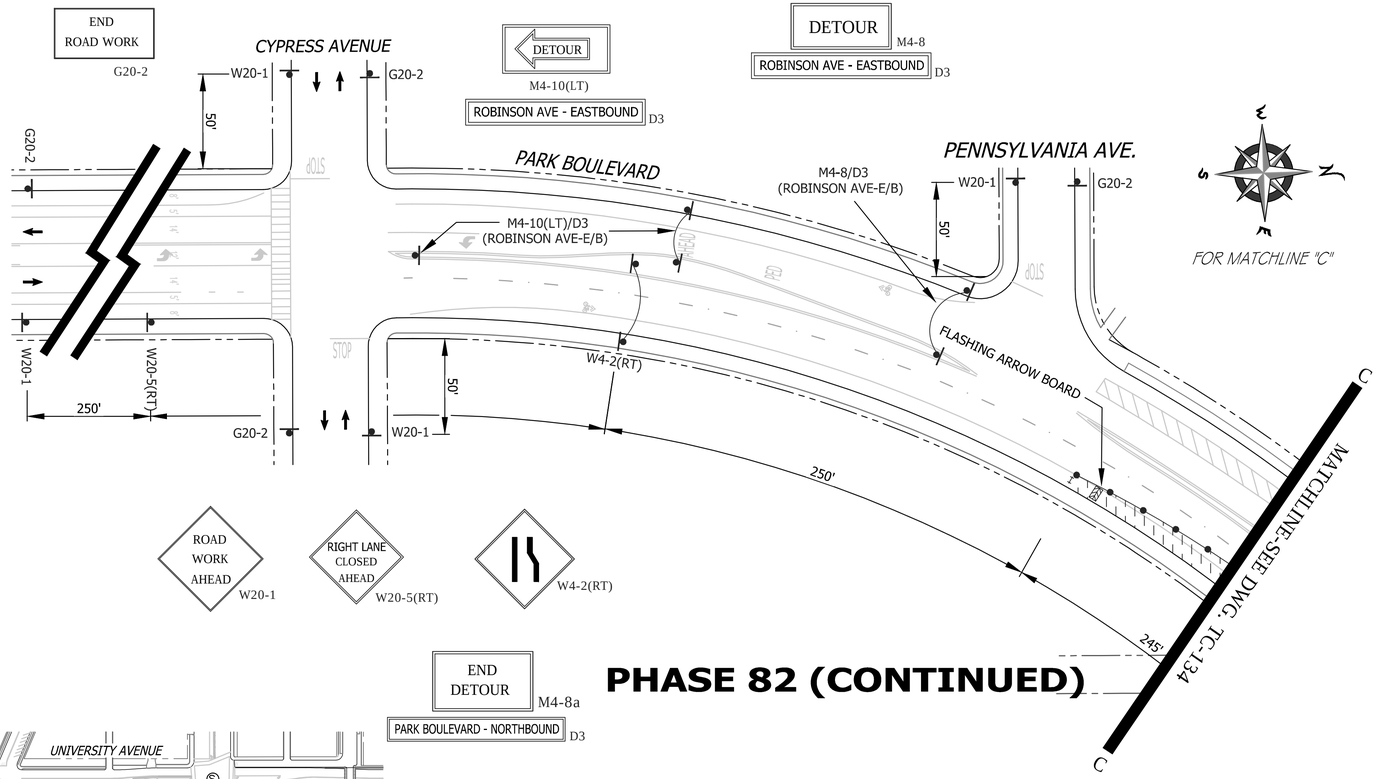
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

DWG NAME:130601-TC-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 82 (CONTINUED)





NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVENUE	35	N/A	N/A	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-135

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 82

CITY OF SAN DIEGO, CALIFORNIA
SHEET 135 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

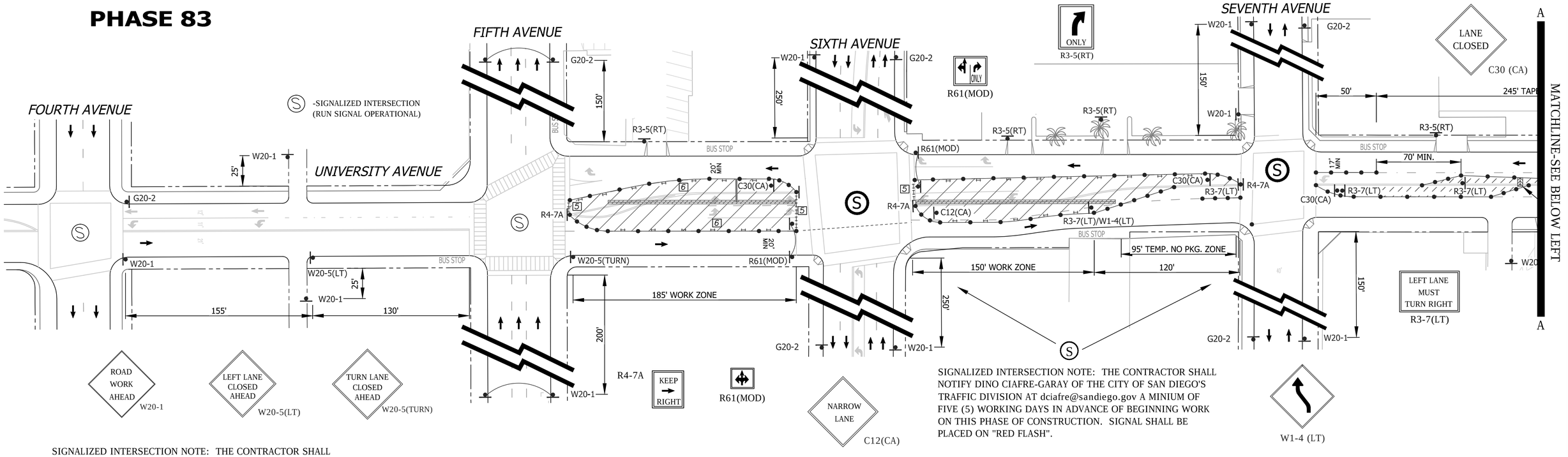
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

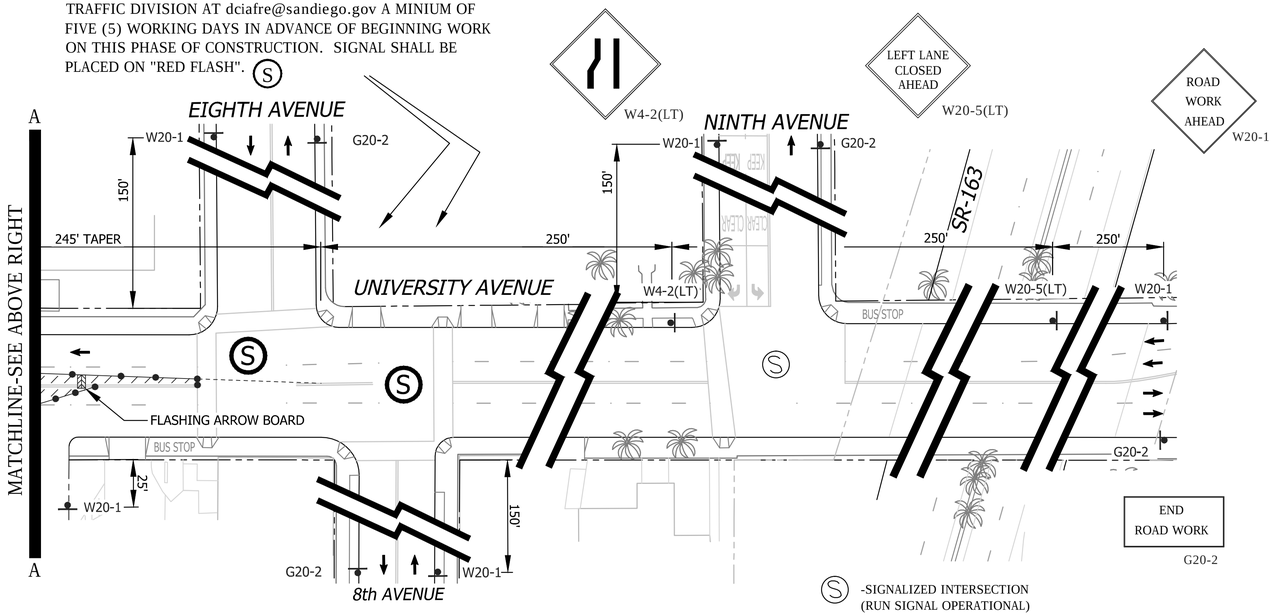
36656-T135-D

PHASE 83



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH". (S)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-136

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 83

CITY OF SAN DIEGO, CALIFORNIA
SHEET 136 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T136-D

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

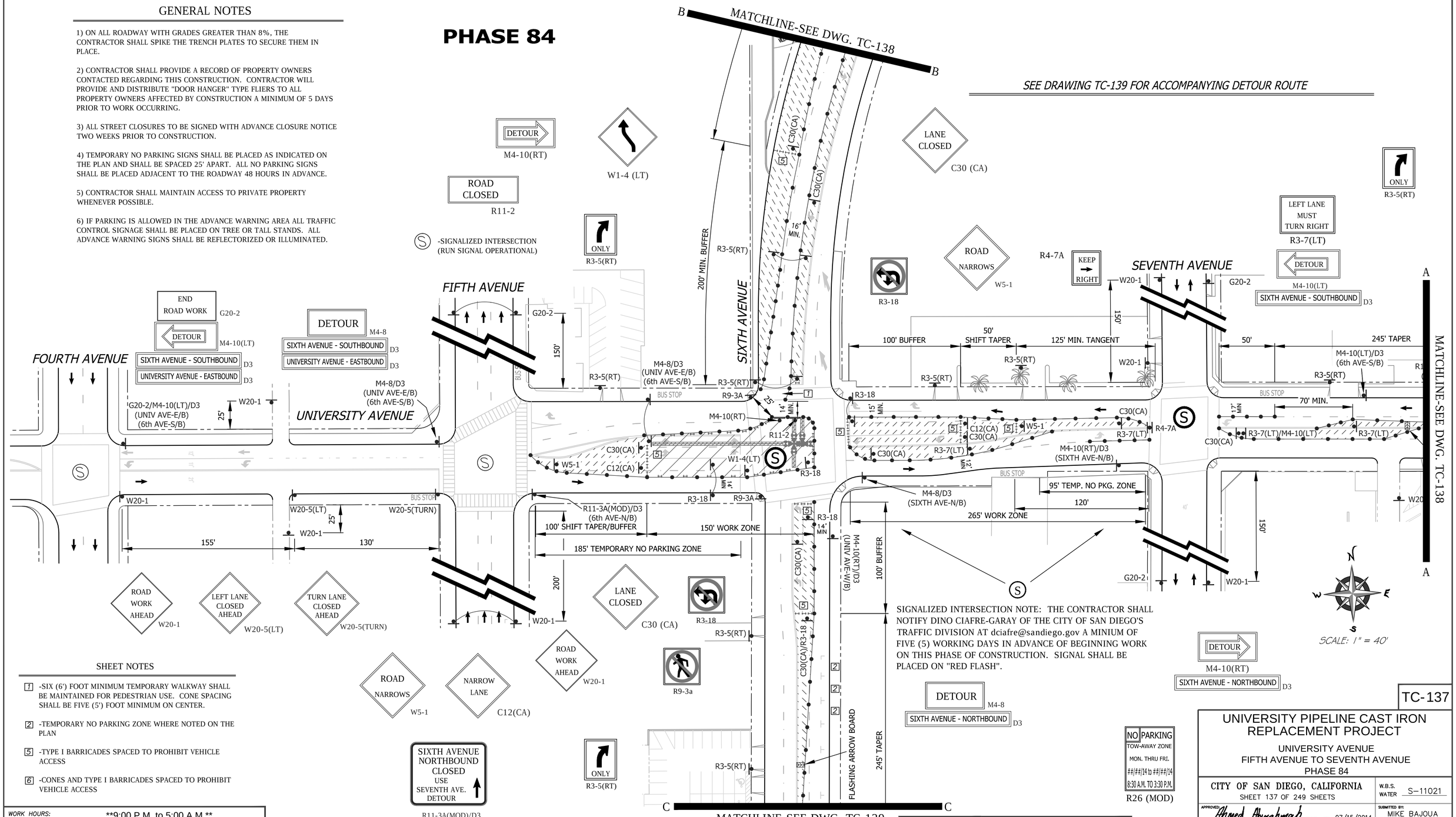
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PHASE 84



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

DETOUR
M4-8
SIXTH AVENUE - NORTHBOUND D3

DETOUR
M4-10(RT)
SIXTH AVENUE - NORTHBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-137

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 84

CITY OF SAN DIEGO, CALIFORNIA
SHEET 137 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

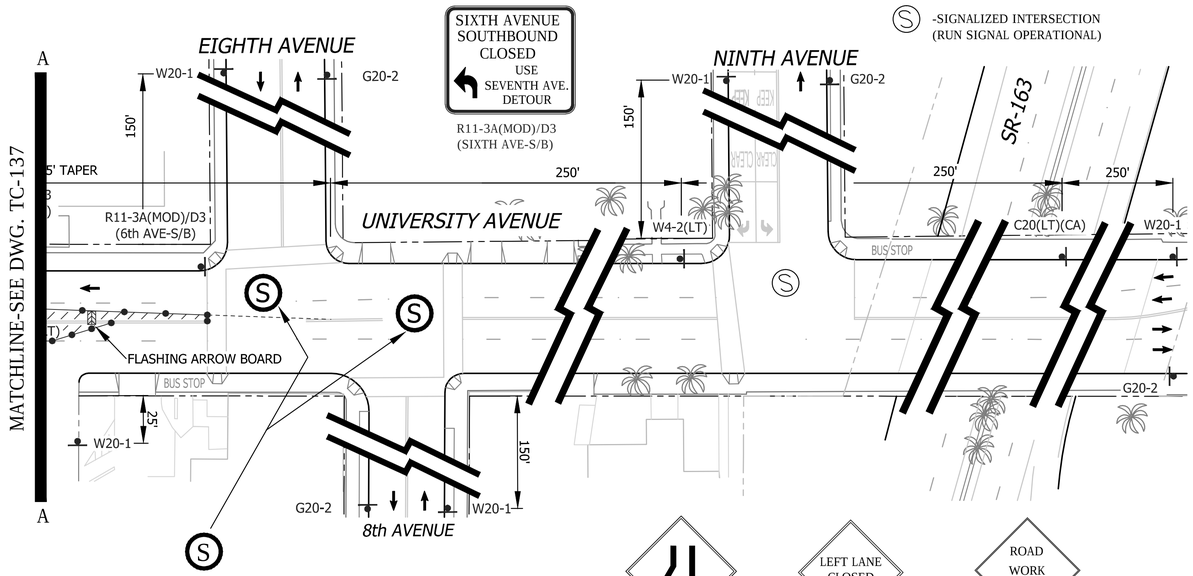
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T137-D

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



FOR MATCHLINE "A"
SCALE: 1" = 40'

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

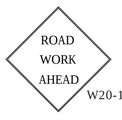
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

3 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

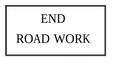
SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

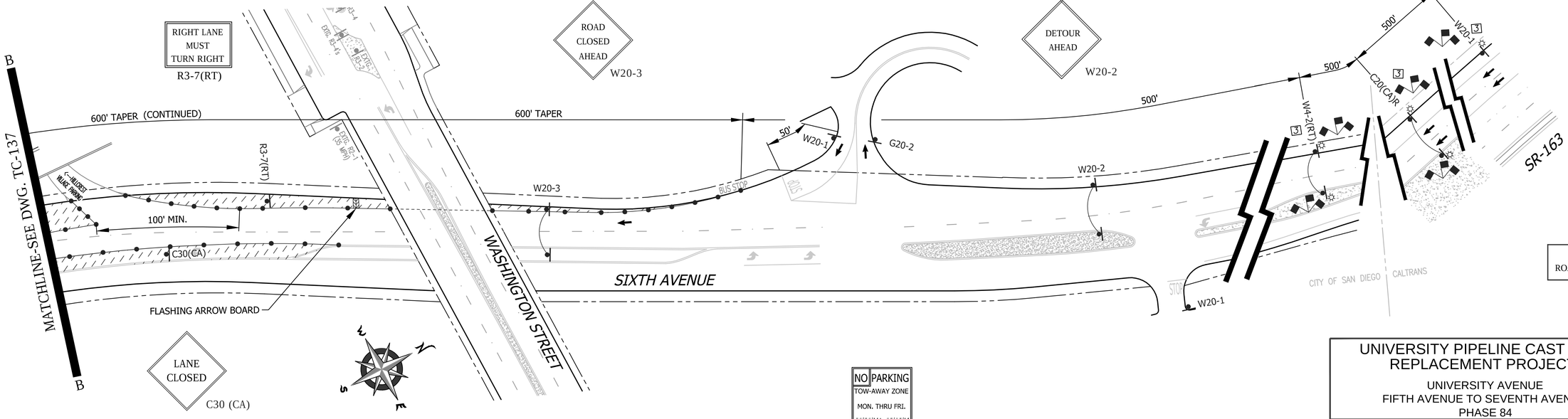


PHASE 84 (CONTINUED)

SEE DRAWING TC-139 FOR ACCOMPANYING DETOUR ROUTE

END
ROAD WORK
G20-2





FOR MATCHLINE "B"
SCALE: 1" = 40'

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

END
ROAD WORK
G20-2

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	45	SEE DWG.		500 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-138

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 84

CITY OF SAN DIEGO, CALIFORNIA
SHEET 138 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

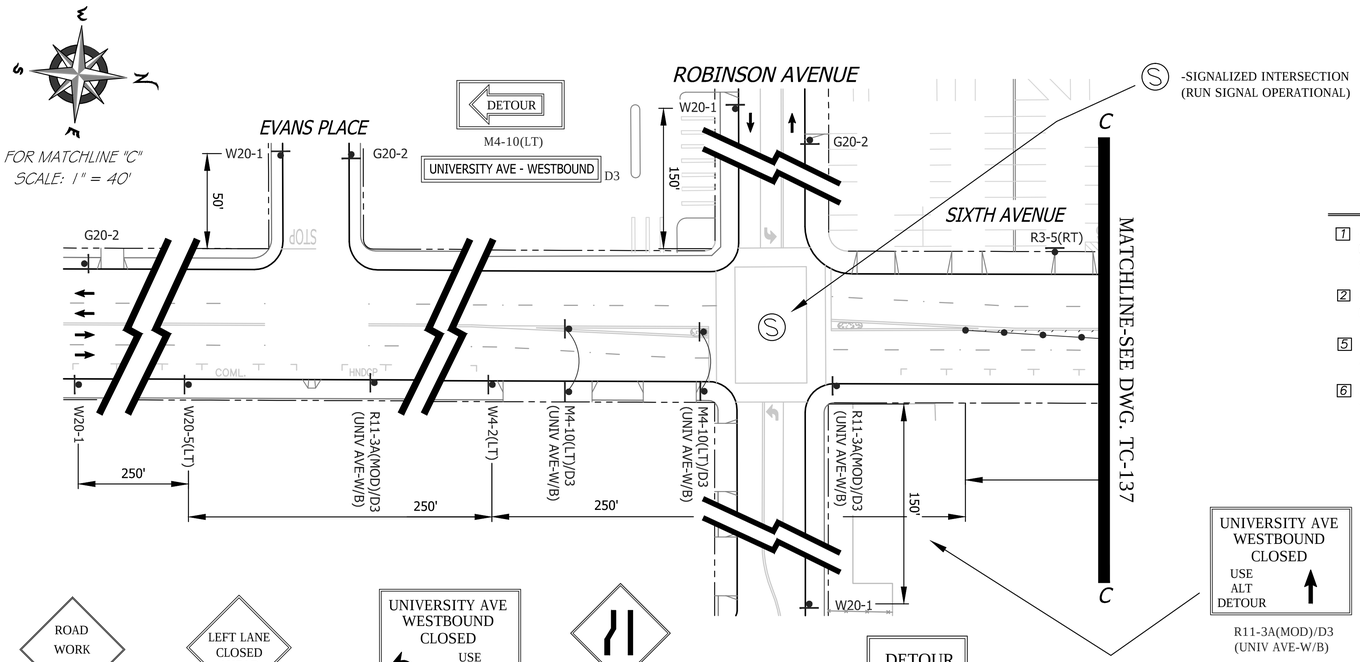
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

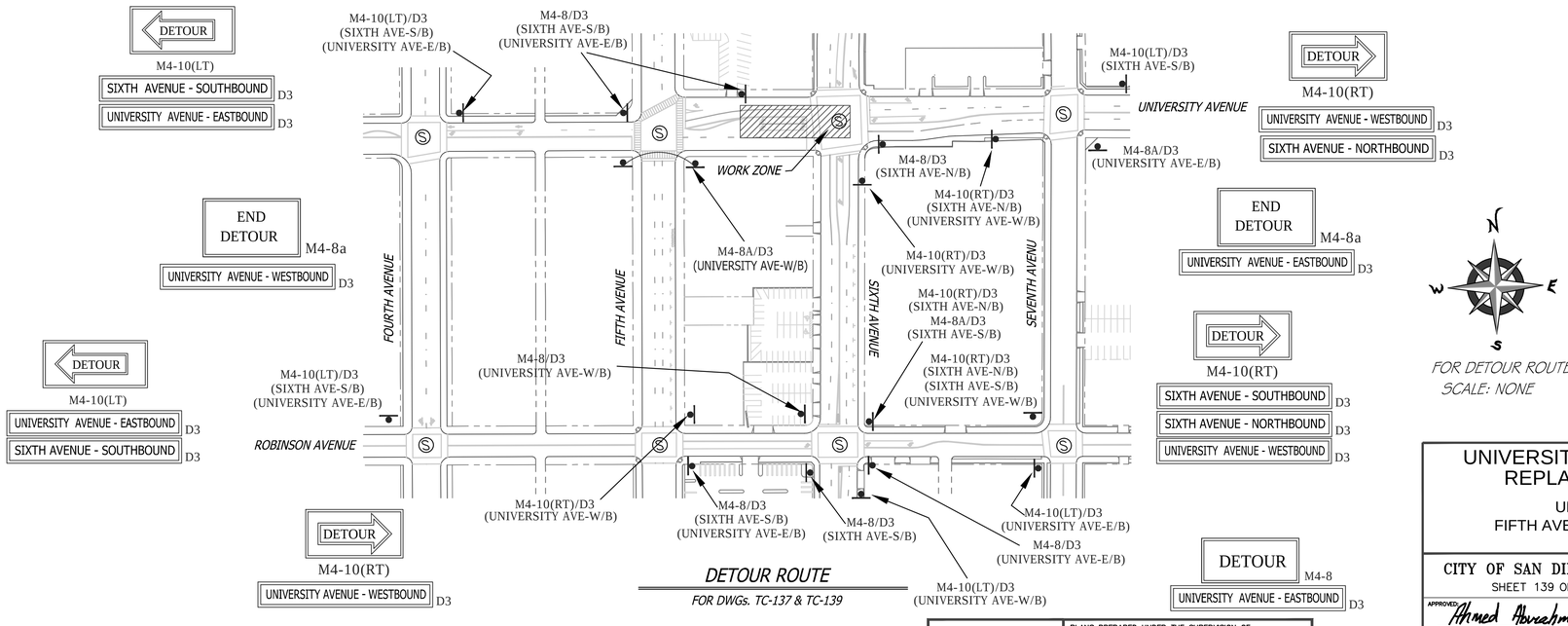
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T138-D





NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PHASE 84 (CONTINUED)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-139

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 84

CITY OF SAN DIEGO, CALIFORNIA
SHEET 139 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T139-D

PHASE 85

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

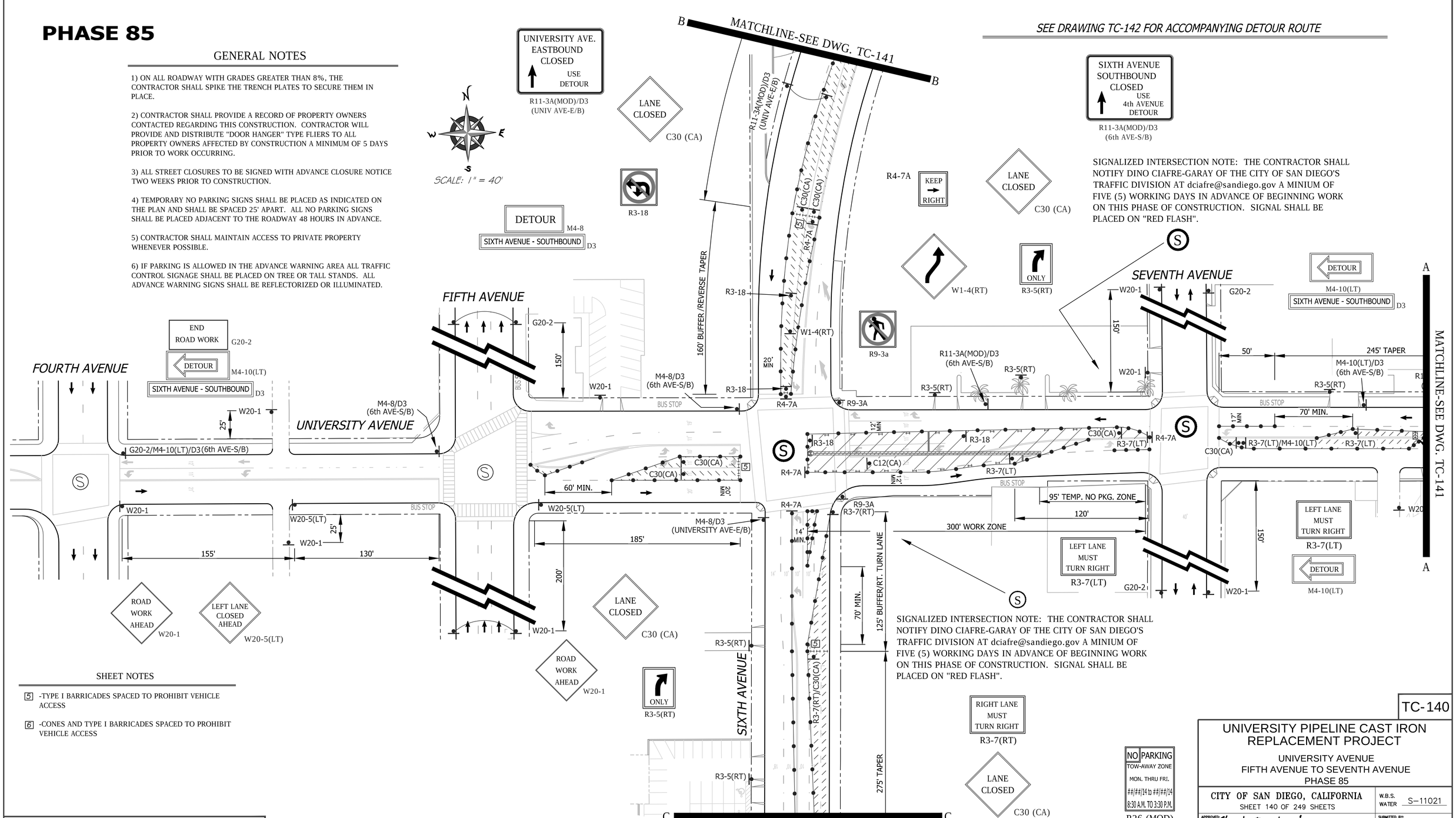
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
08/08/2014 DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-140

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 85

CITY OF SAN DIEGO, CALIFORNIA
SHEET 140 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

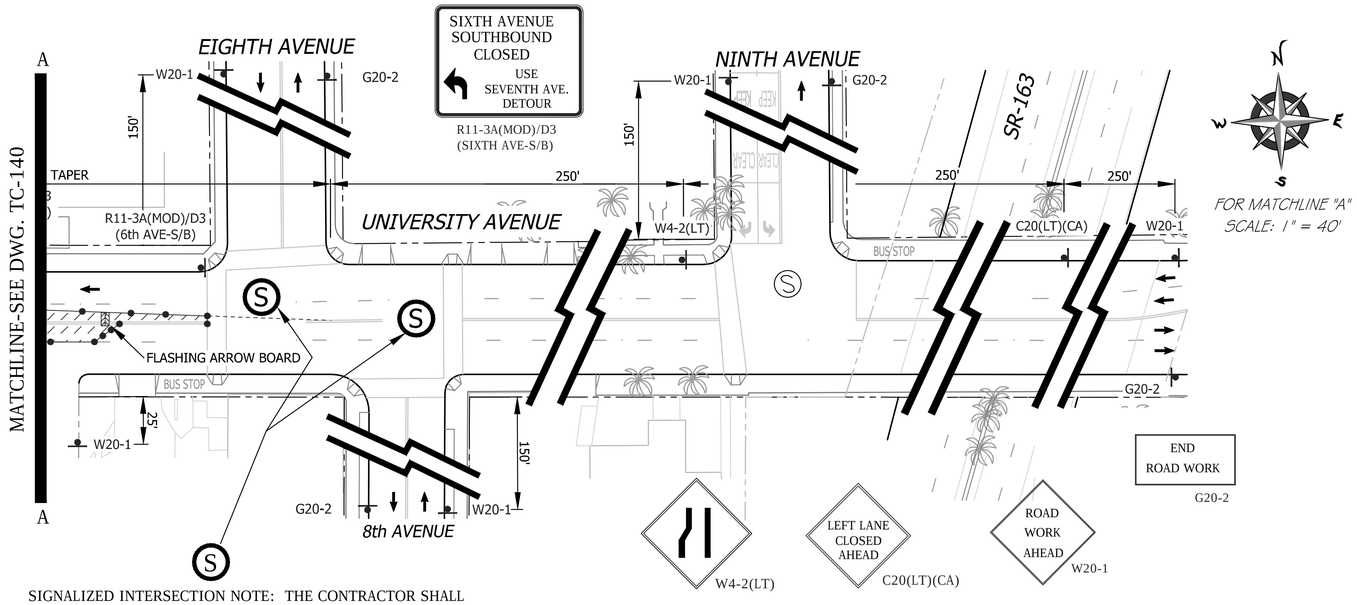
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T140-D

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



FOR MATCHLINE "A"
SCALE: 1" = 40'

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

3 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

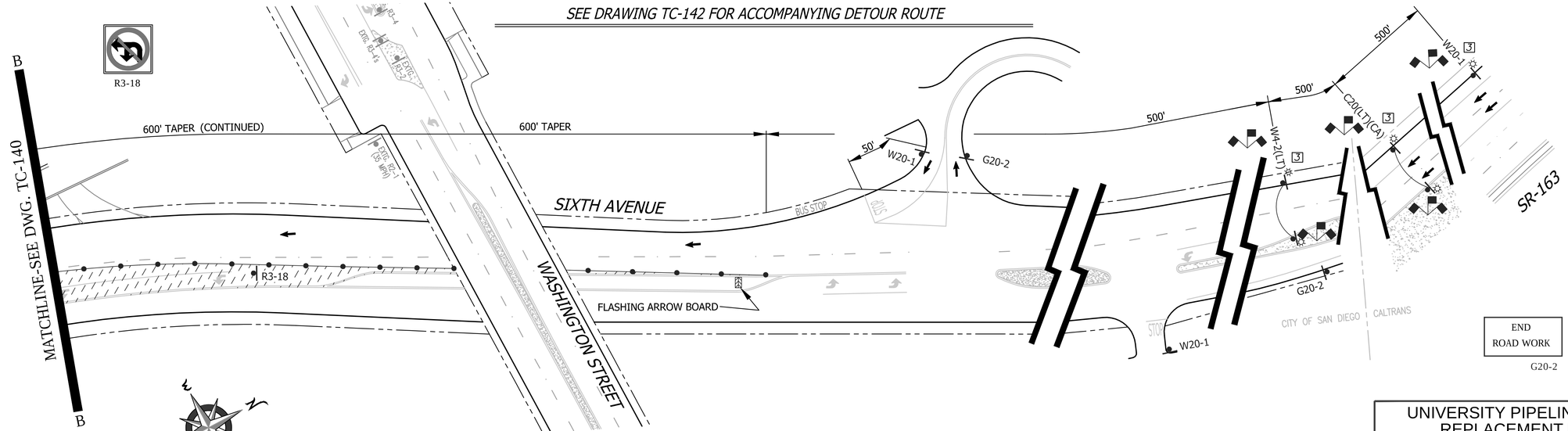
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 85 (CONTINUED)

W4-2(LT) LEFT LANE CLOSED AHEAD C20(LT)(CA) ROAD WORK AHEAD W20-1

SEE DRAWING TC-142 FOR ACCOMPANYING DETOUR ROUTE



FOR MATCHLINE "B"
SCALE: 1" = 40'

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	45	SEE DWG.		500 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-141

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 85

CITY OF SAN DIEGO, CALIFORNIA
SHEET 141 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

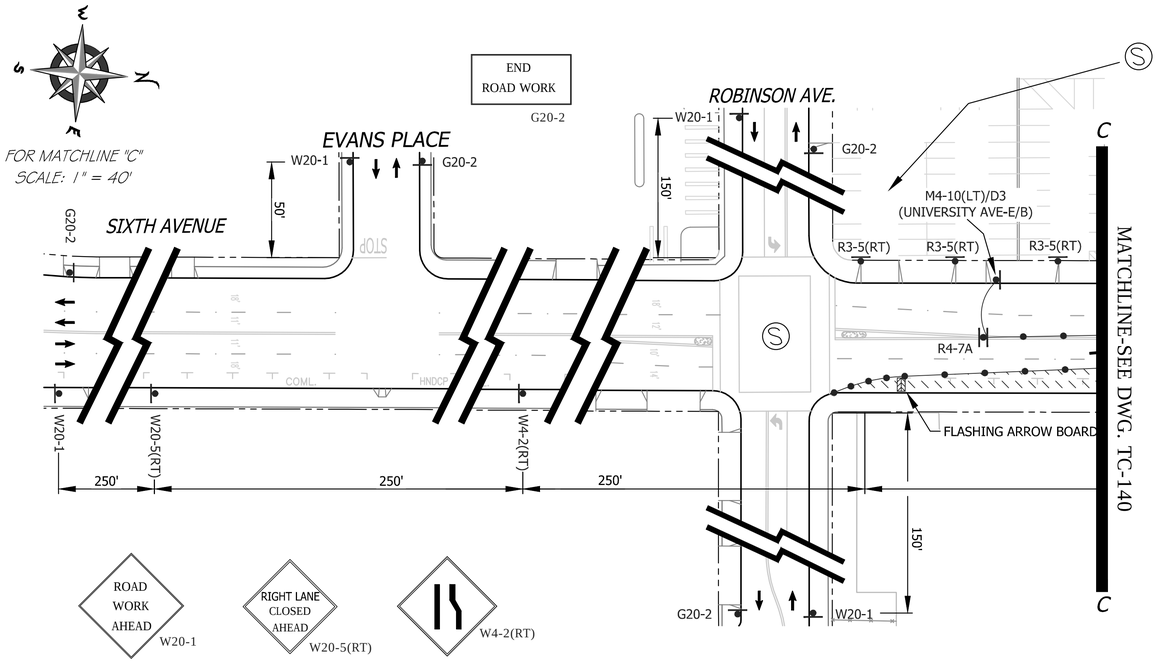
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T141-D



FOR MATCHLINE "C"
SCALE: 1" = 40'

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

DETOUR
M4-10(LT)
UNIVERSITY AVENUE - EASTBOUND D3

ONLY
R3-5(RT)

R4-7A KEEP → RIGHT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

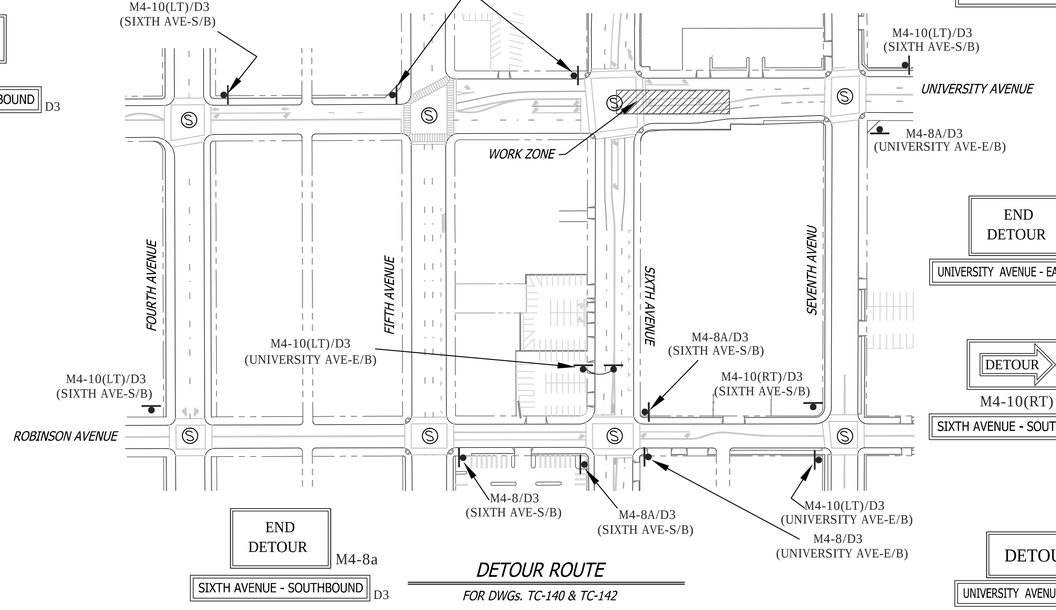
PHASE 85 (CONTINUED)

DETOUR
M4-8
SIXTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(LT)
SIXTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(LT)
SIXTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(LT)
SIXTH AVENUE - SOUTHBOUND D3



DETOUR ROUTE
FOR DWGs. TC-140 & TC-142

END DETOUR M4-8a
SIXTH AVENUE - SOUTHBOUND D3

END DETOUR M4-8a
UNIVERSITY AVENUE - EASTBOUND D3

DETOUR
M4-10(RT)
SIXTH AVENUE - SOUTHBOUND D3

DETOUR M4-8
UNIVERSITY AVENUE - EASTBOUND D3

FOR DETOUR ROUTE
SCALE: NONE

SHEET NOTES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-142

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 85

CITY OF SAN DIEGO, CALIFORNIA
SHEET 142 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T142-D

PHASE 86

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

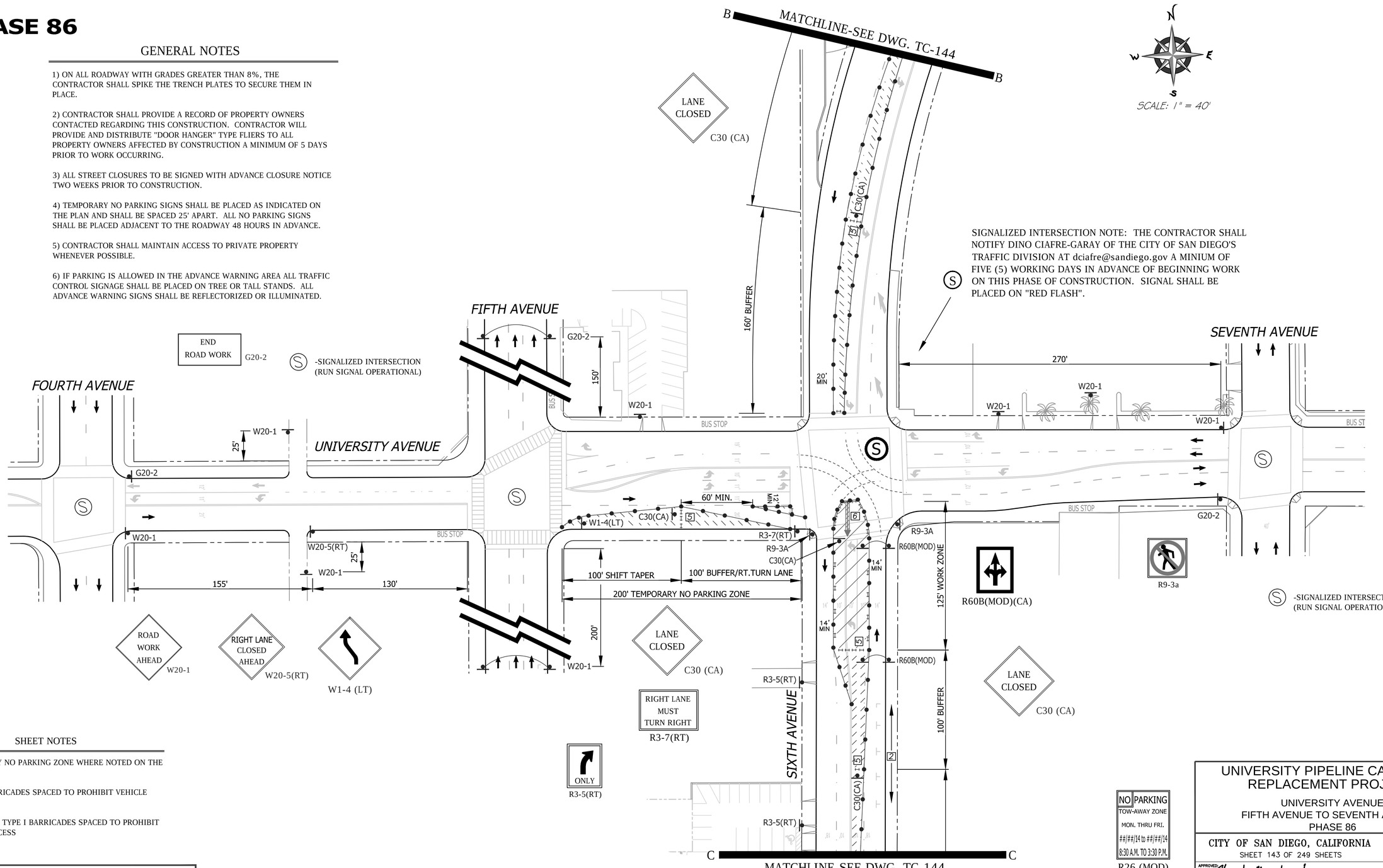
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-143

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 86

CITY OF SAN DIEGO, CALIFORNIA
SHEET 143 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

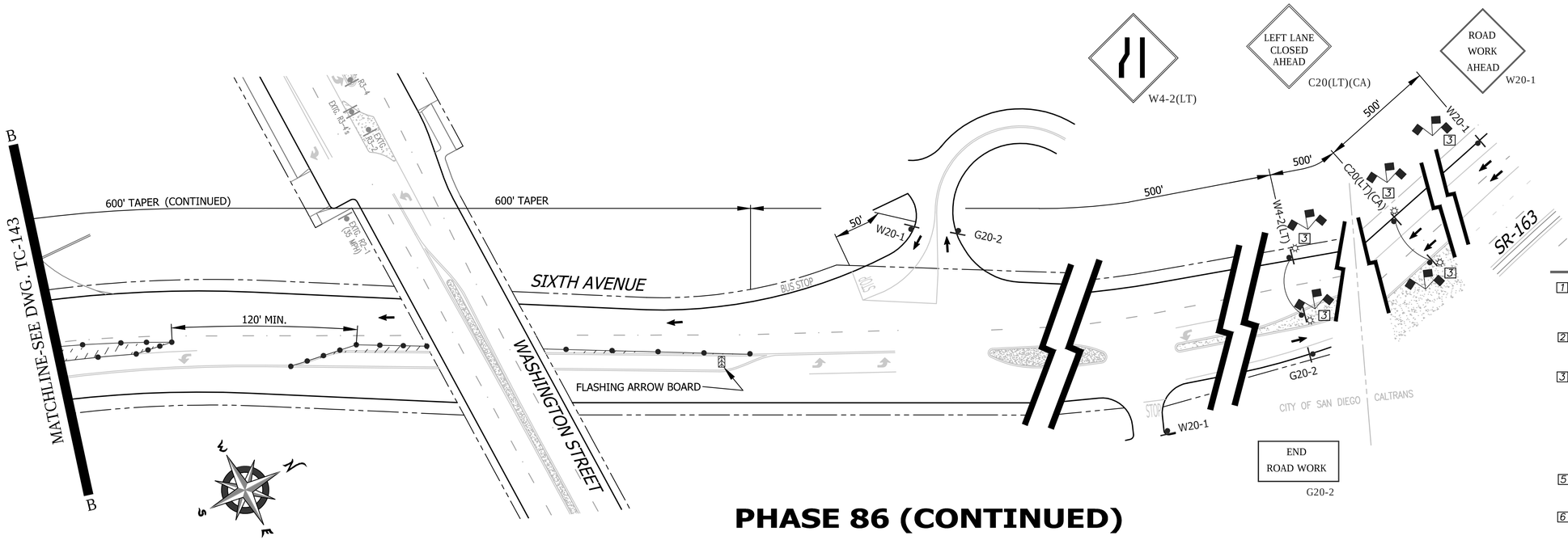
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T143-D

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



FOR MATCHLINE "B"
SCALE: 1" = 40'

PHASE 86 (CONTINUED)

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN
3. -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

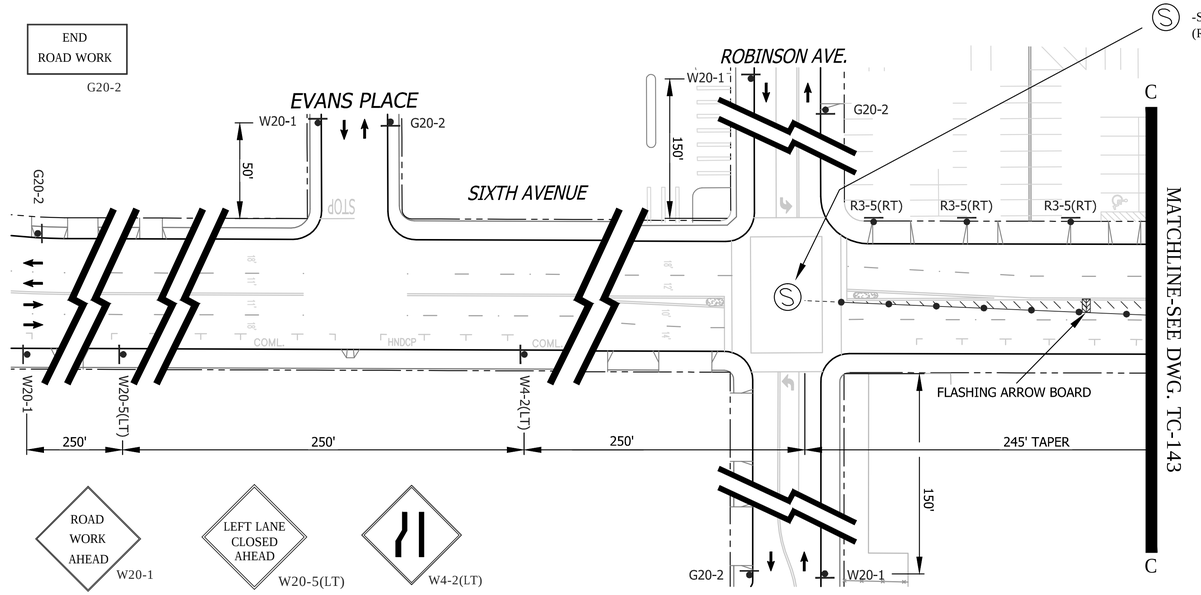
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



FOR MATCHLINE "C"
SCALE: 1" = 40'

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	45	SEE DWG.		500 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE: 08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-144

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 86

CITY OF SAN DIEGO, CALIFORNIA
SHEET 144 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

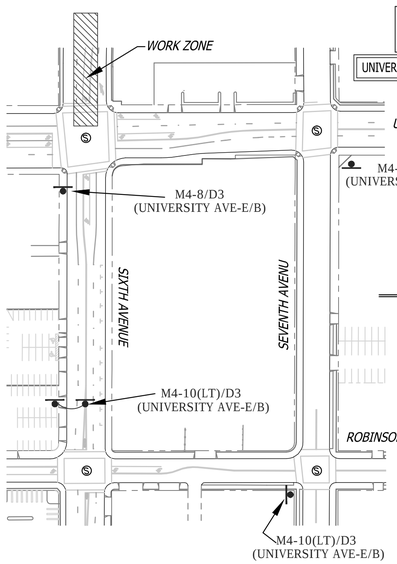
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T144-D

PHASE 87



DETOUR M4-8
UNIVERSITY AVENUE - EASTBOUND D3

M4-8A/D3 (UNIVERSITY AVE-E/B)

END DETOUR M4-8a
UNIVERSITY AVENUE - EASTBOUND D3

DETOUR ROUTE
FOR DWGs. TC-145 & TC-146

R3-18

DETOUR
M4-10(LT)
UNIVERSITY AVENUE - EASTBOUND D3

R9-3a

B MATCHLINE-SEE DWG. TC-146 B

RIGHT LANE CLOSED AHEAD W20-5(RT)

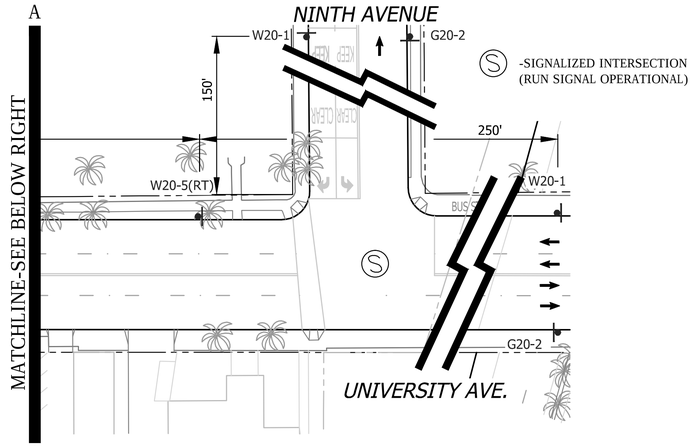
ROAD WORK AHEAD W20-1

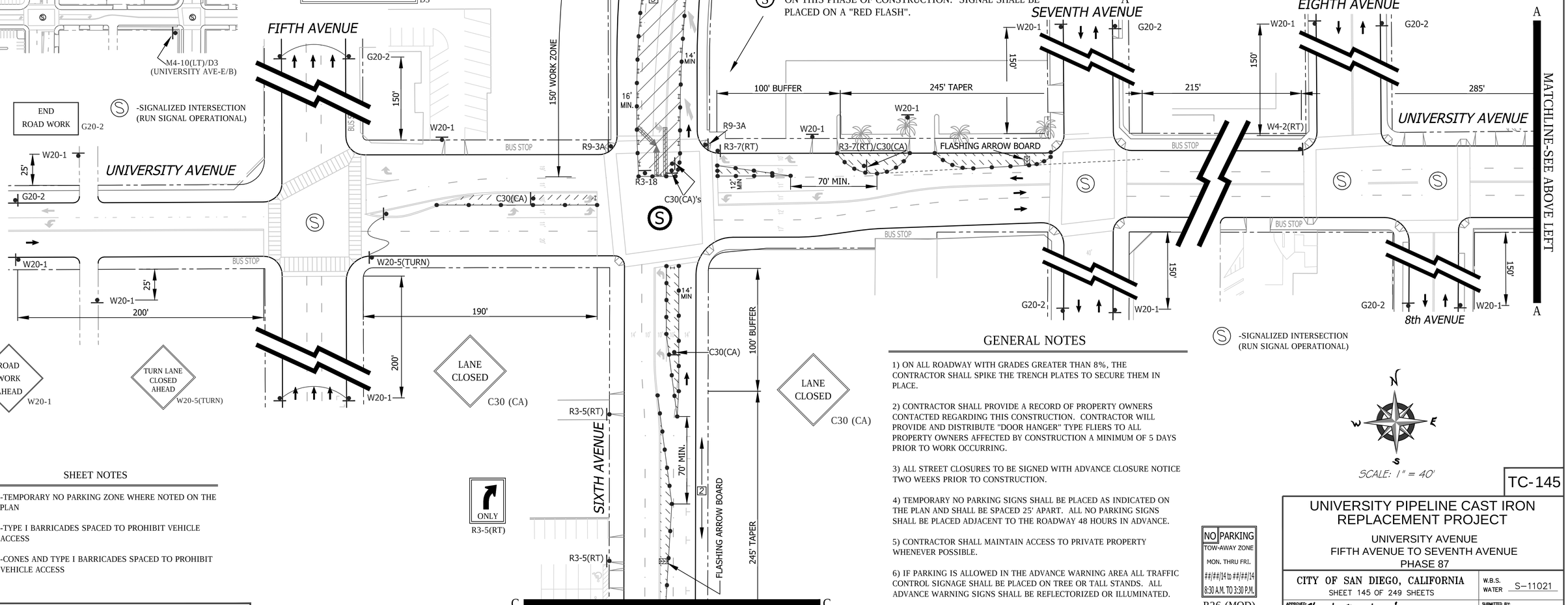
RIGHT LANE MUST TURN RIGHT R3-7(RT)

LANE CLOSED C30 (CA)

W4-2(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON A "RED FLASH".





ROAD WORK AHEAD W20-1

TURN LANE CLOSED AHEAD W20-5(TURN)

LANE CLOSED C30 (CA)

LANE CLOSED C30 (CA)

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

N
W E
S

SCALE: 1" = 40'

TC-145

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 87

CITY OF SAN DIEGO, CALIFORNIA
SHEET 145 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T145-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

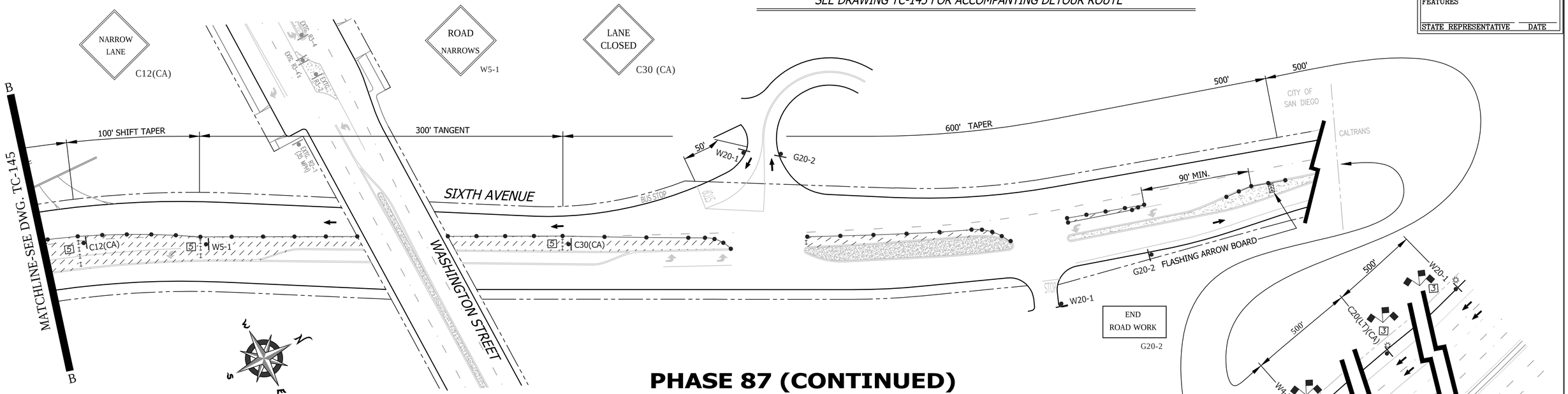
DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-145 FOR ACCOMPANYING DETOUR ROUTE

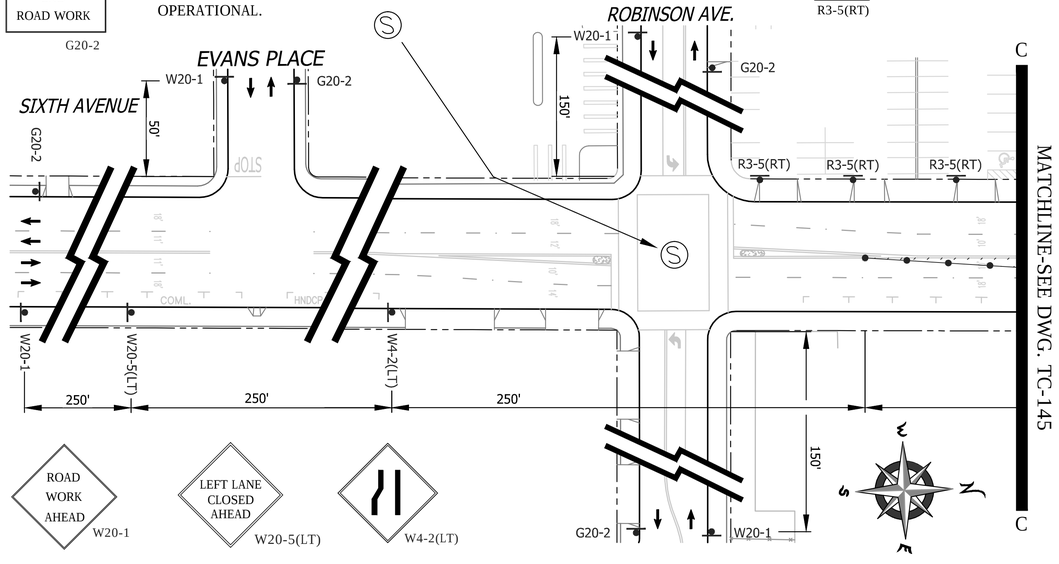


PHASE 87 (CONTINUED)

FOR MATCHLINE "B"
SCALE: 1" = 40'

END ROAD WORK
G20-2

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.



FOR MATCHLINE "C"
SCALE: 1" = 40'

ONLY
R3-5(RT)

SHEET NOTES

[7] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

[3] -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 A.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	50	SEE DWG.		500 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-146

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 87

CITY OF SAN DIEGO, CALIFORNIA
SHEET 146 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T146-D

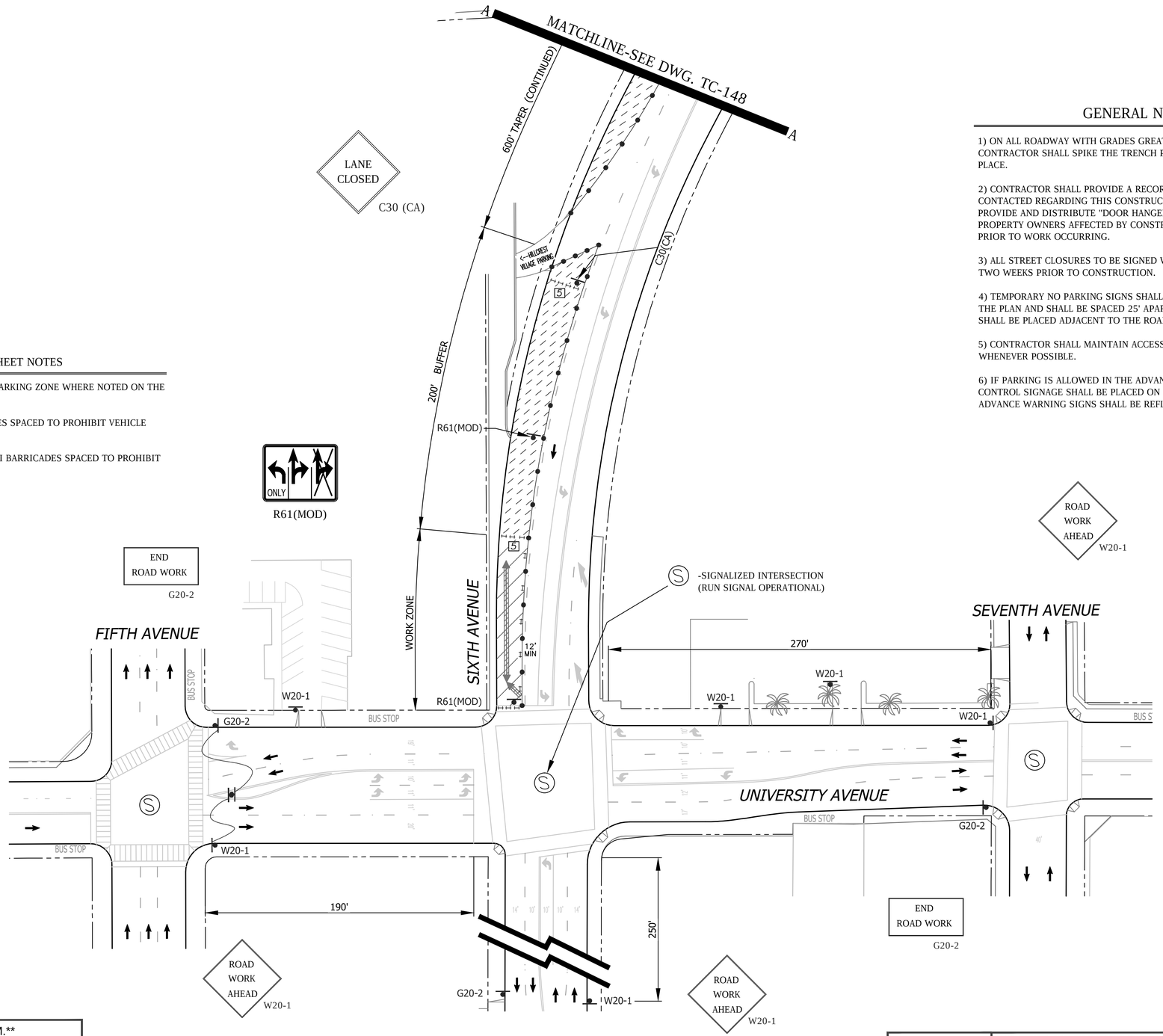
PHASE 88

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

ROAD WORK AHEAD W20-1

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

N
W E
S

SCALE: 1" = 40'

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-147

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 88

CITY OF SAN DIEGO, CALIFORNIA
SHEET 147 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

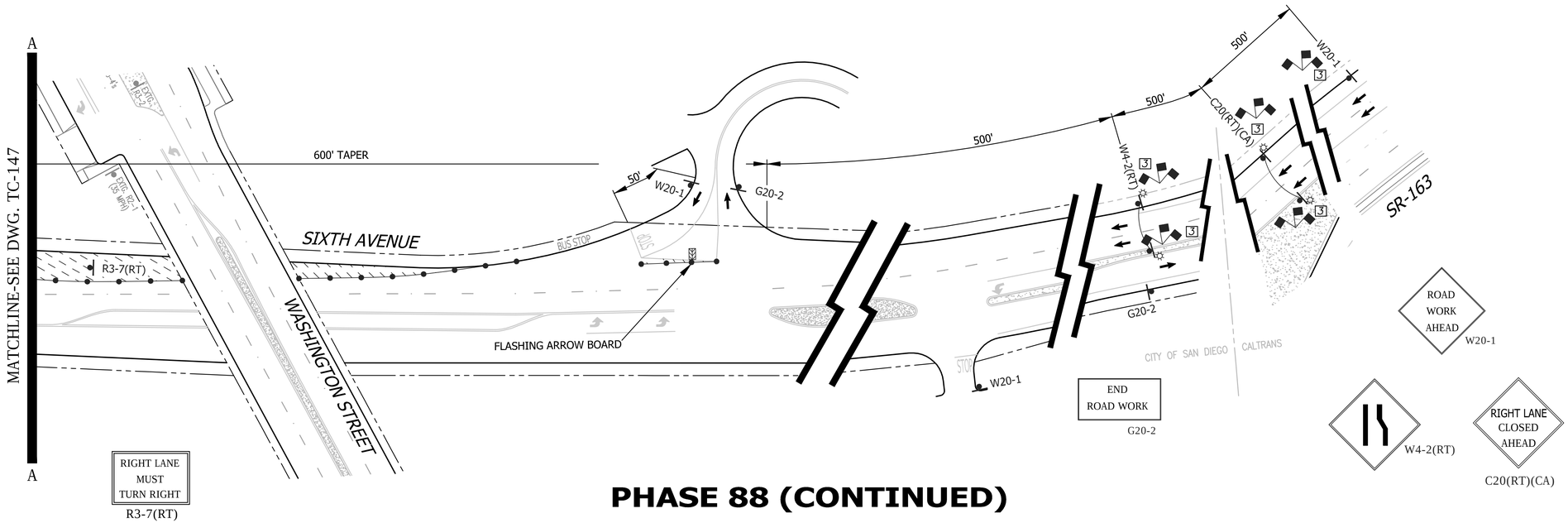
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T147-D

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



FOR MATCHLINE "B"
SCALE: 1" = 40'

PHASE 88 (CONTINUED)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN
3. -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 A.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	50	SEE DWG.		500 FT.	25 FT
UNIVERSITY AVE E/O 6th	30	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE W/O 6th	25	N/A	N/A	150 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-148

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 88

CITY OF SAN DIEGO, CALIFORNIA
SHEET 148 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

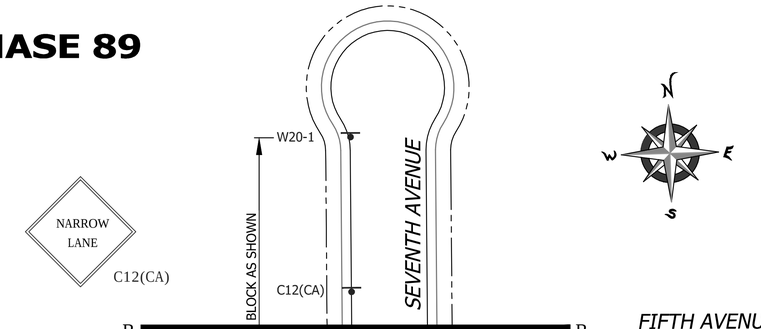
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

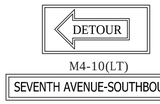
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T148-D

PHASE 89

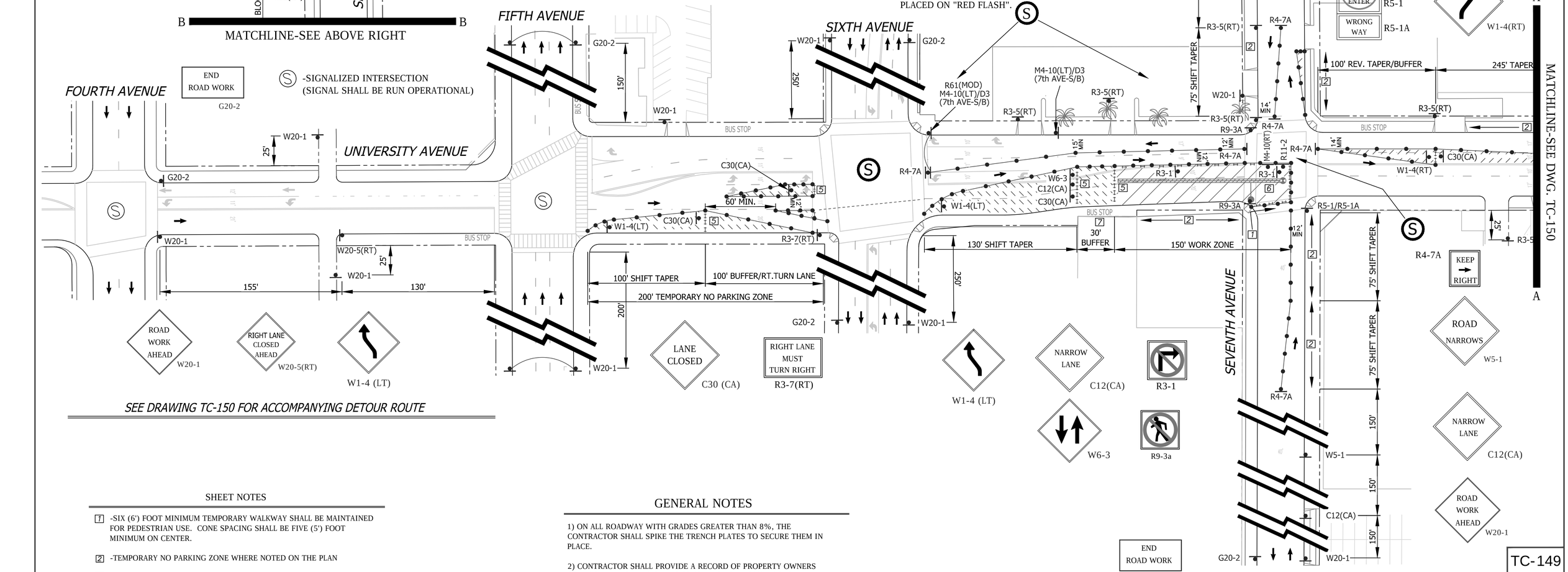


R61(MOD)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

MATCHLINE-SEE BELOW LEFT



SEE DRAWING TC-150 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SEVENTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-149

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 89

CITY OF SAN DIEGO, CALIFORNIA
SHEET 149 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

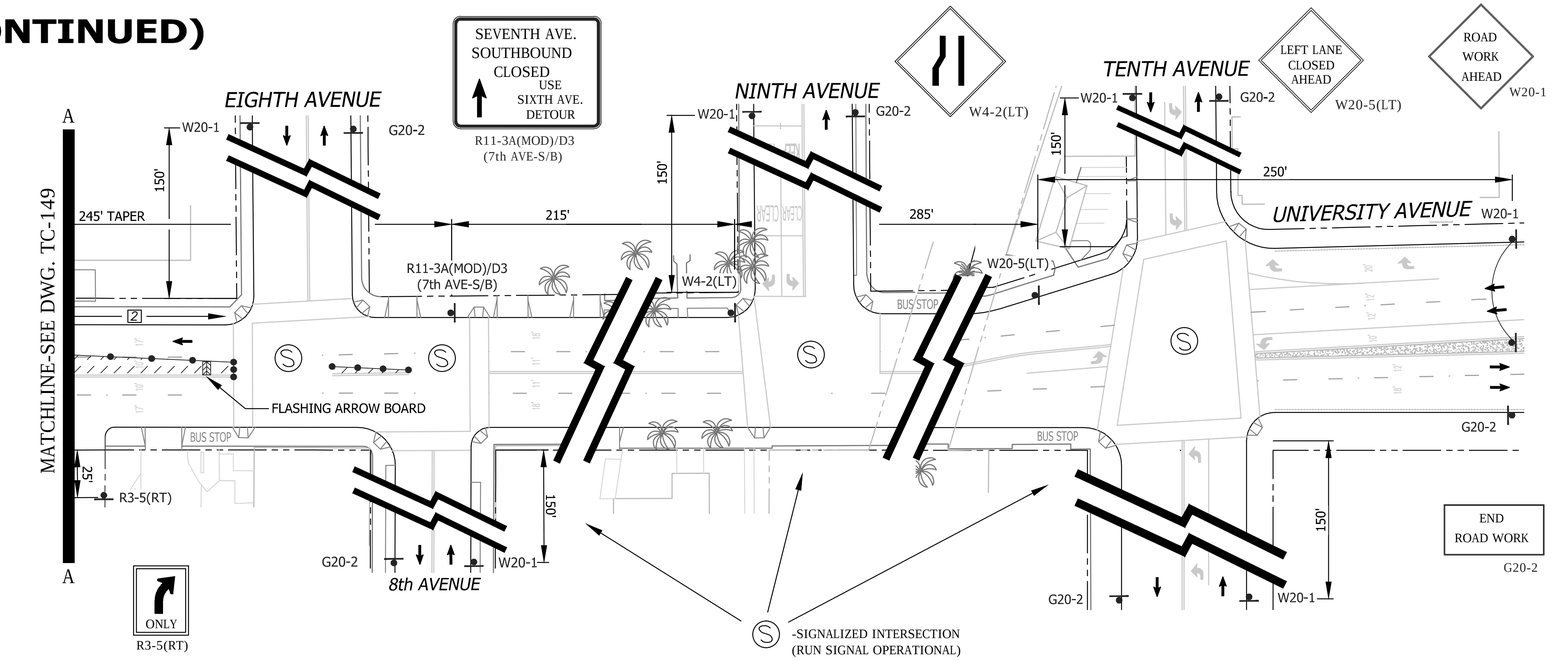
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T149-D

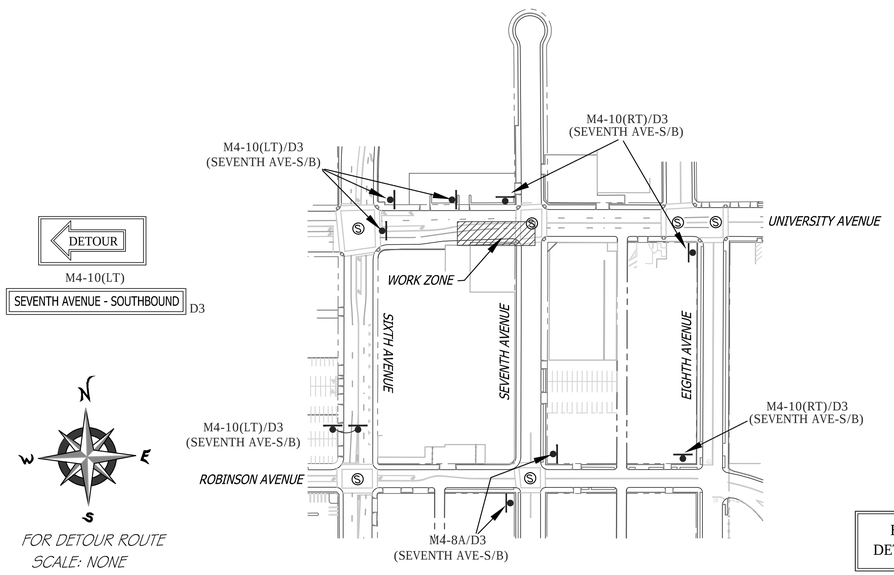
PHASE 89 (CONTINUED)



SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT



DETOUR
M4-10(LT)
SEVENTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(RT)
SEVENTH AVENUE - SOUTHBOUND D3

END DETOUR M4-8a
SEVENTH AVENUE - SOUTHBOUND D3

FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-149 & TC-150

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-150

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 89

CITY OF SAN DIEGO, CALIFORNIA
SHEET 150 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

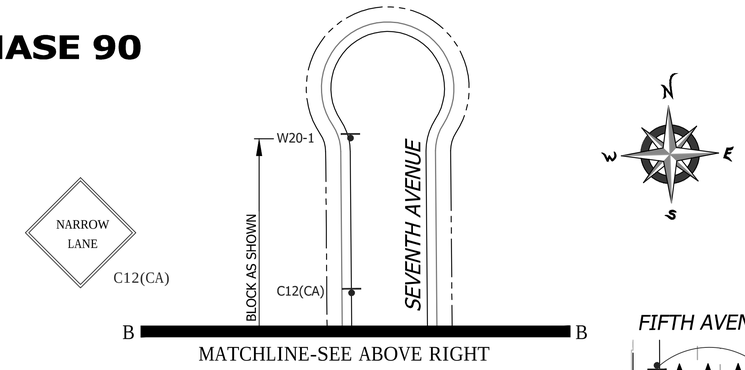
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T150-D

PHASE 90

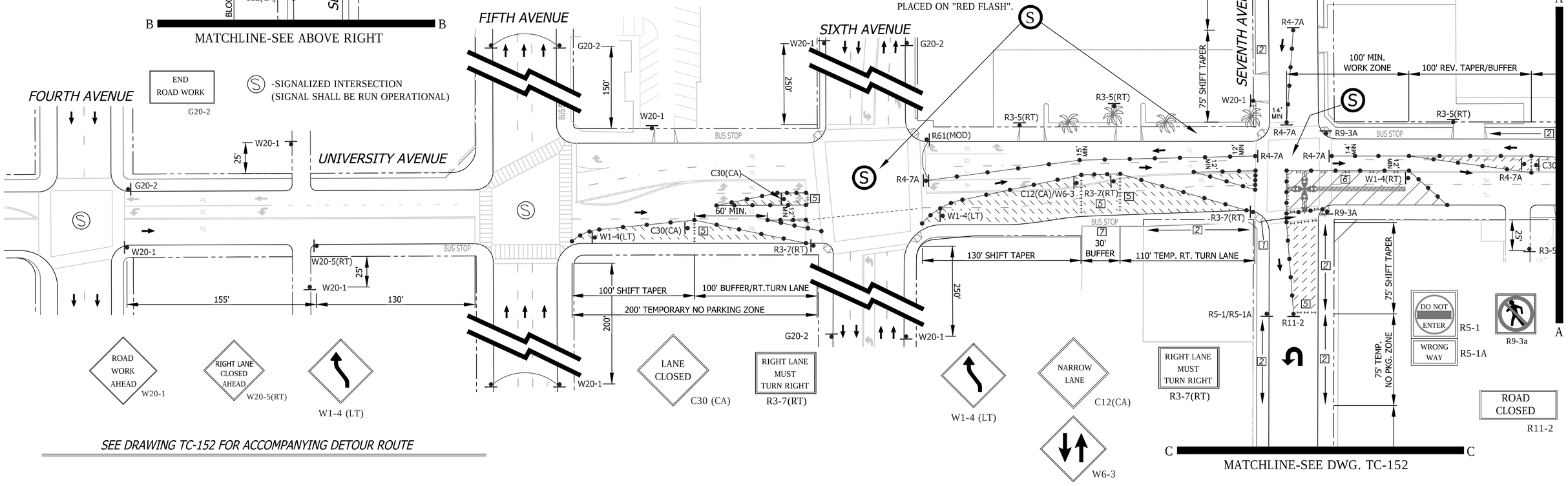


R61(MOD)

R3-5(RT)

W5-1

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DRAWING TC-152 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
SEVENTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-151

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 90

CITY OF SAN DIEGO, CALIFORNIA
SHEET 151 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

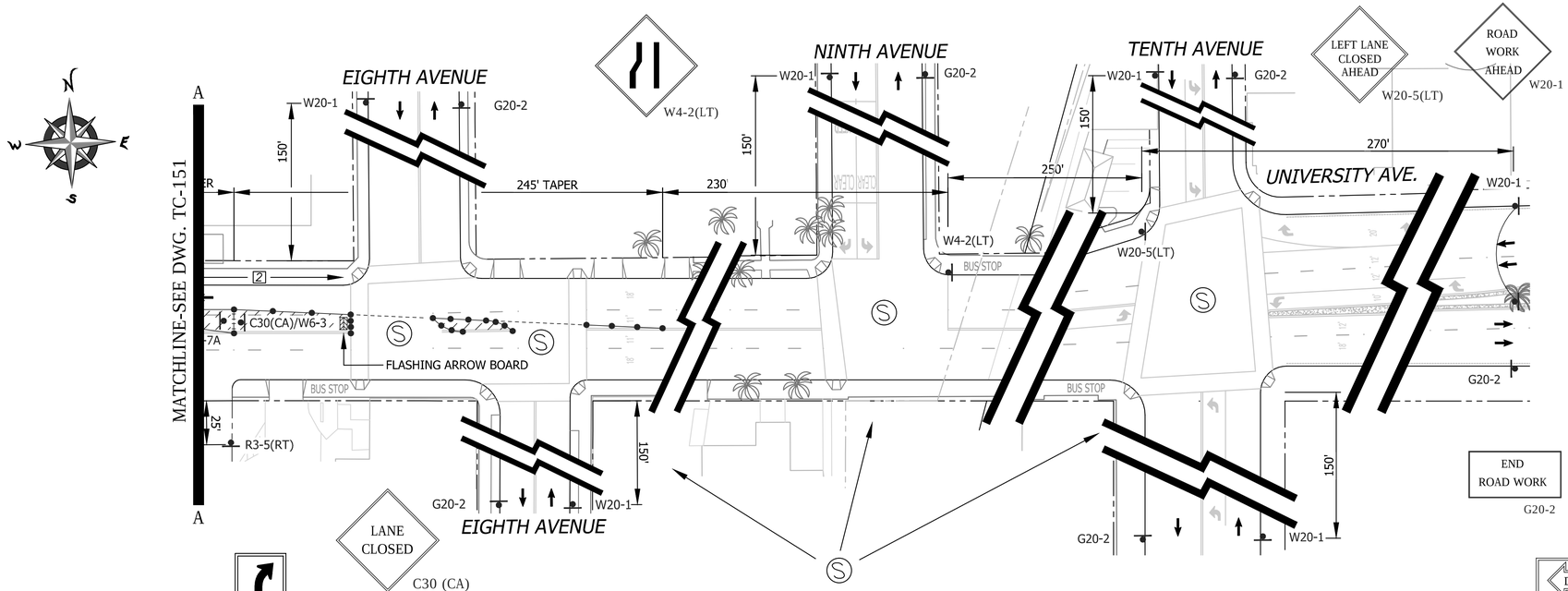
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

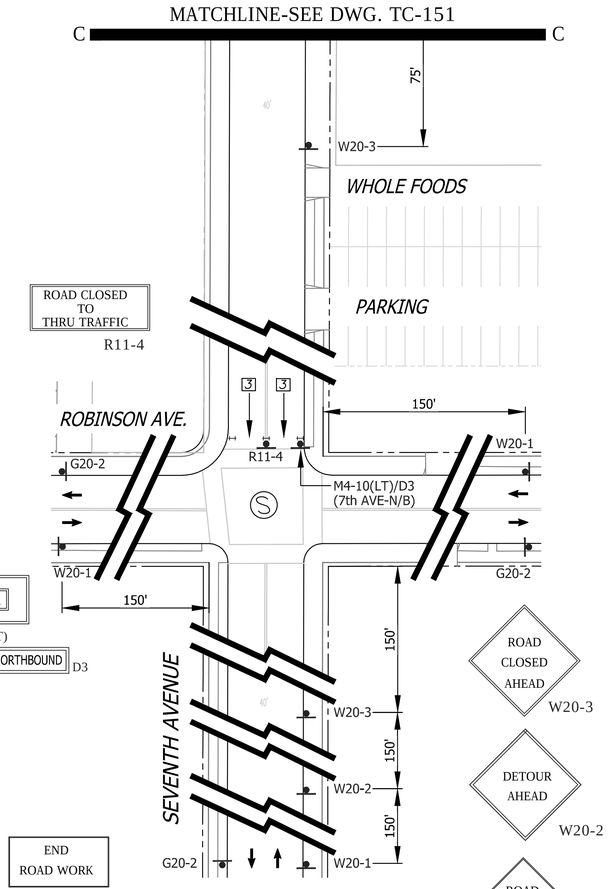
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T151-D





PHASE 90 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

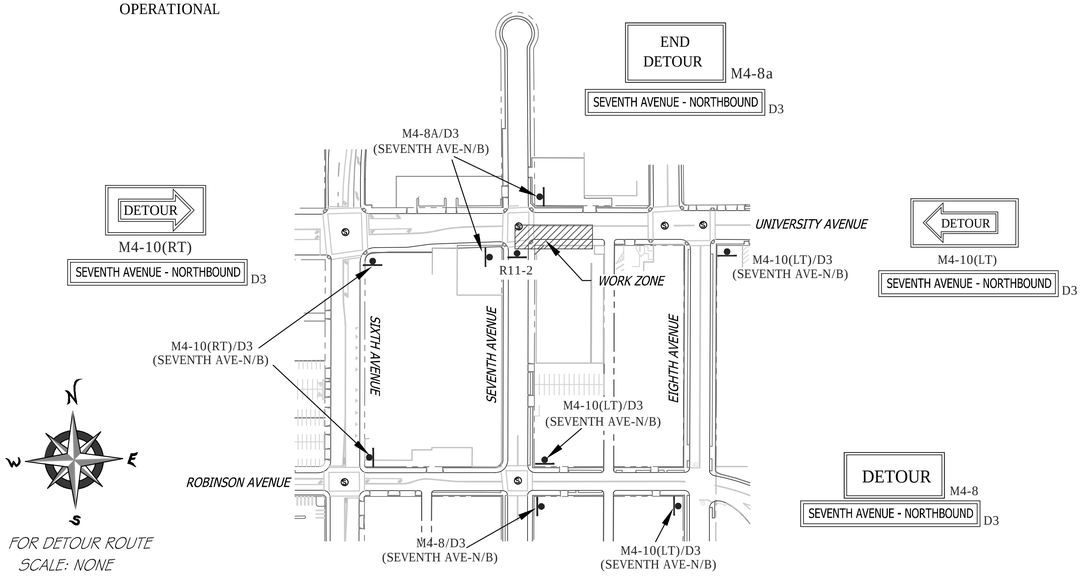
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-151 & TC-152

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-152

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 90

CITY OF SAN DIEGO, CALIFORNIA
SHEET 152 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

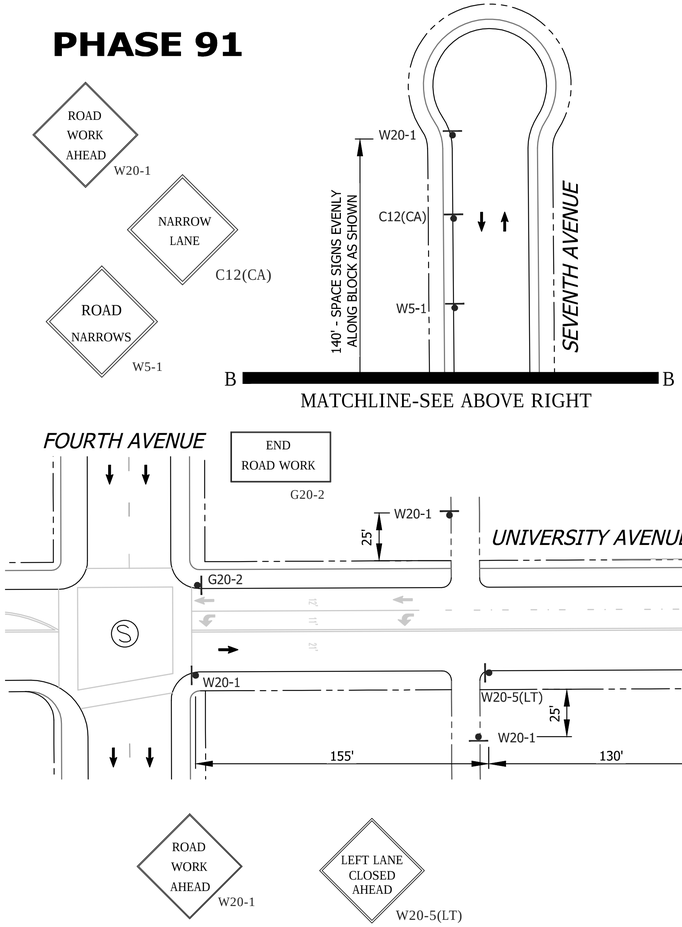
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

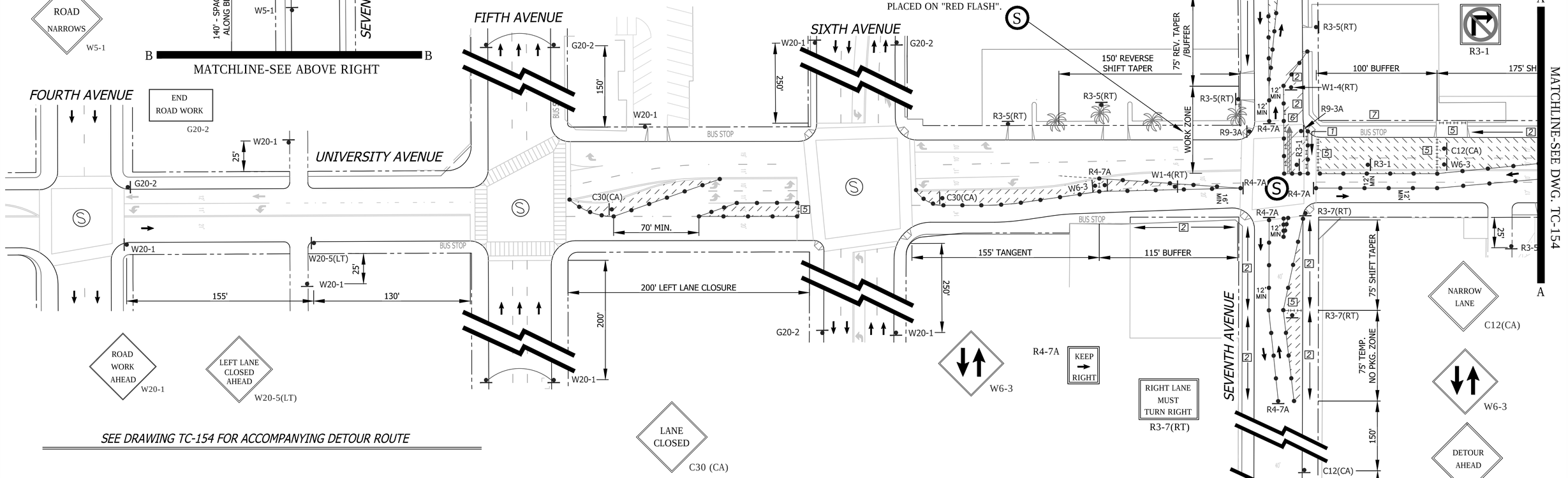
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T152-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 91





SEE DRAWING TC-154 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.	250 FT.	25 FT	
SEVENTH AVENUE	25	SEE DWG.	SEE DWG.	25 FT	
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.	250 FT.	25 FT	

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/18/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-153

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 91

CITY OF SAN DIEGO, CALIFORNIA
SHEET 153 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

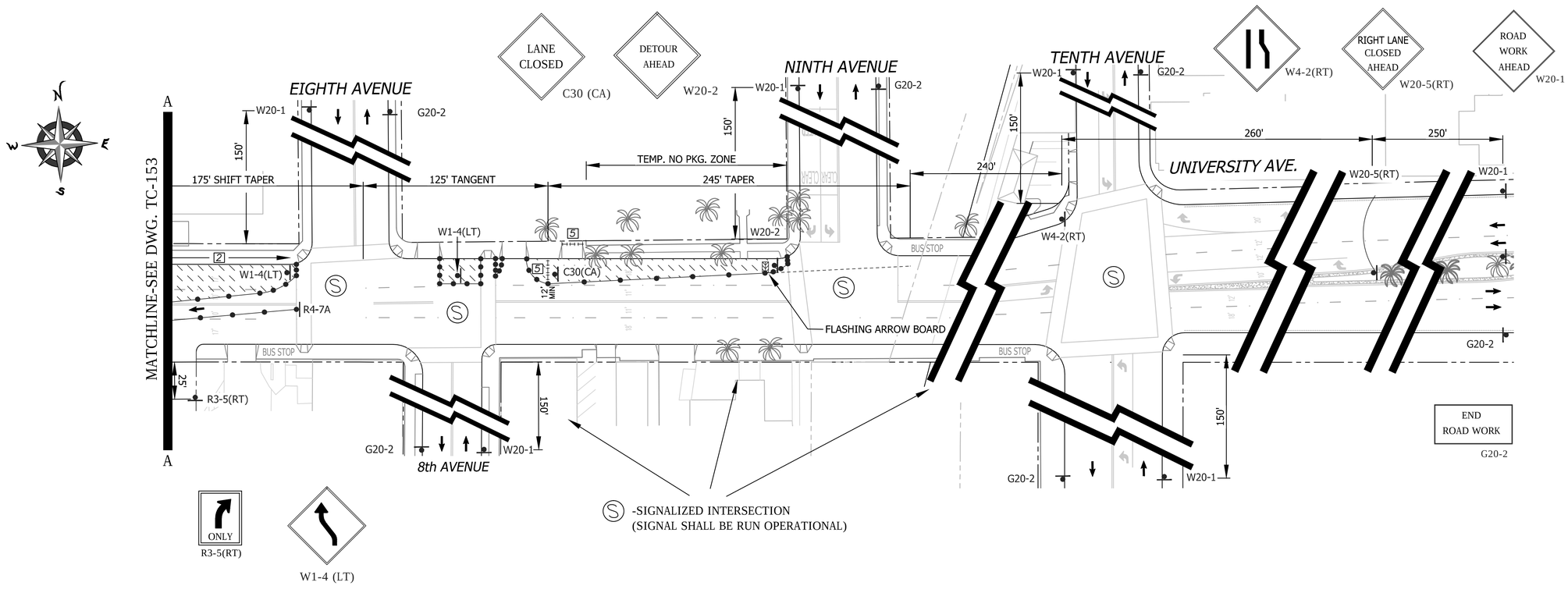
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T153-D



PHASE 91 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

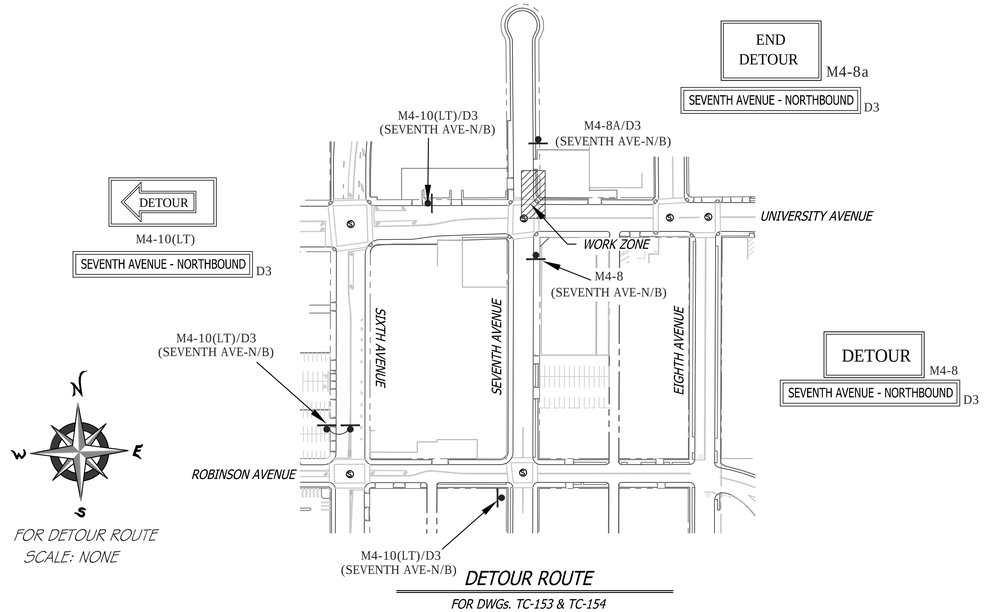
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-154

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 91

CITY OF SAN DIEGO, CALIFORNIA
SHEET 154 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T154-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/18/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 92

N W E S

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

R61(MOD)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

R3-5(RT) ONLY

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

FOURTH AVENUE
END ROAD WORK G20-2
RIGHT LANE CLOSED AHEAD W20-5(RT)
W20-1 25'
UNIVERSITY AVENUE
G20-2
W20-1
W20-5(RT) 25'
W20-1
155' 130'
BUS STOP

FIFTH AVENUE
G20-2 150'
W20-1
BUS STOP
C30(CA)
60' MIN.
W1-4(LT)
C30(CA) 5
R3-7(RT)
100' SHIFT TAPER
100' BUFFER/RT.TURN LANE
200' TEMPORARY NO PARKING ZONE
200'
G20-2
W20-1

SIXTH AVENUE
W20-1 G20-2
250'
R61(MOD)
R4-7A
W6-3
C12(CA)
C30(CA)
R3-7(RT) 5
W1-4(LT)
R3-7(RT)
BUS STOP
7 30' BUFFER
2
130' SHIFT TAPER
110' TEMP. RT. TURN LANE
250'
G20-2
W20-1

SEVENTH AVENUE
W20-1 G20-2
150'
R3-5(RT)
W20-1
R3-5(RT)
R61(MOD)
BUS STOP
R4-7A
15' MIN
12' MIN
R4-7A
14' MIN
C12(CA)/W6-3
5
R11-2(ALLEY)
150'
G20-2
W20-1
WHOLE FOODS
WHOLE FOODS
A
MATCHLINE-SEE BELOW LEFT
A
R11-4 (ALLEY)
100'
W20-3 (ALLEY)
PARKING

ROAD WORK AHEAD W20-1
R4-7A KEEP → RIGHT
W1-4 (LT)
LANE CLOSED C30 (CA)
RIGHT LANE MUST TURN RIGHT R3-7(RT)
NARROW LANE C12(CA)
RIGHT LANE MUST TURN RIGHT R3-7(RT)
R4-7A KEEP → RIGHT
ALLEY CLOSED R11-2(ALLEY)
W6-3
W4-2(LT)
LEFT LANE CLOSED AHEAD W20-5(LT)
ROAD WORK AHEAD W20-1
ALLEY CLOSED TO THRU TRAFFIC R11-4(ALLEY)
ALLEY CLOSED AHEAD W20-3 (ALLEY)

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

R4-7A KEEP → RIGHT

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

NINTH AVENUE
W20-1 G20-2
150'
200' TANGENT
SR-163
250' TAPER
BUS STOP
TENTH AVENUE
W20-1 G20-2
150'
250' 250' 250'
UNIVERSITY AVE.
W4-2(LT)
W20-5(LT)
W20-1
G20-2

EIGHTH AVENUE
A
W20-1 G20-2
150'
R9-3A
2
R4-7A R4-7A R4-7A R4-7A
W6-3/C30(CA)
W1-4(RT) R4-7A
C30(CA)
W1-4(RT)
R9-3A
8 BUS STOP
7
5
MATCHLINE-SEE ABOVE RIGHT
A
125' SHIFT TAPER
150'
G20-2
W20-1
8th AVENUE
R9-3a
FLASHING ARROW BOARD
BUS STOP
W1-4(RT)
G20-2
W20-1
150'

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

END ROAD WORK G20-2

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

TC-155

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 92

CITY OF SAN DIEGO, CALIFORNIA
SHEET 155 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

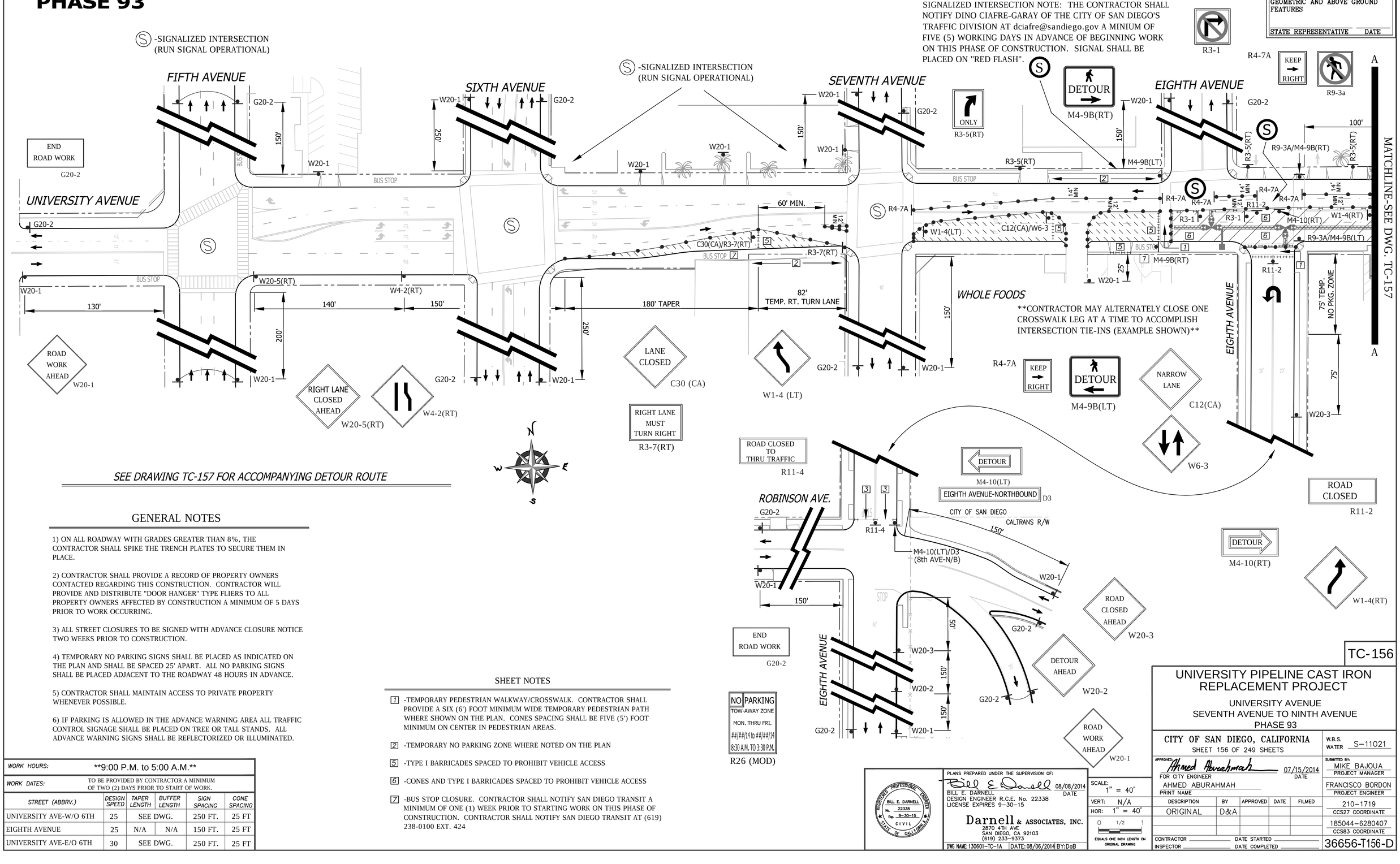
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T155-D

PHASE 93

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DRAWING TC-157 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE: 08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-156

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 93

CITY OF SAN DIEGO, CALIFORNIA
SHEET 156 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

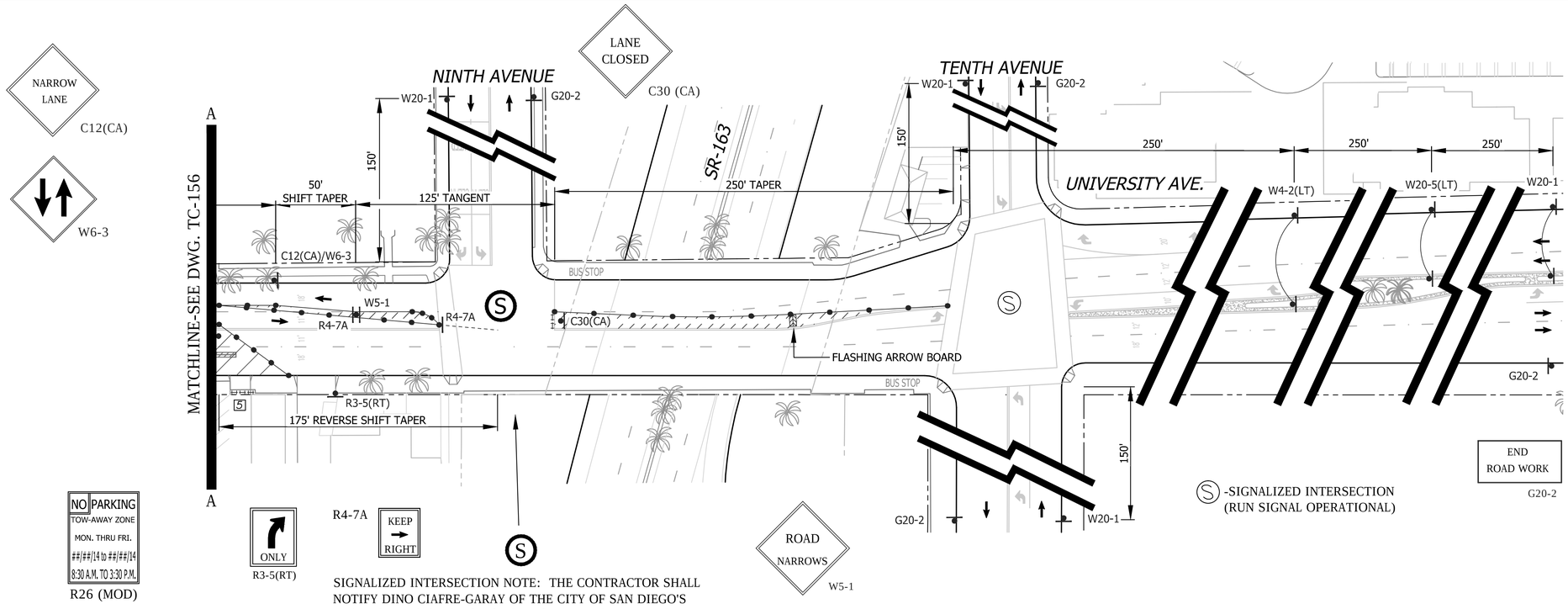
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T156-D

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

PHASE 93 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

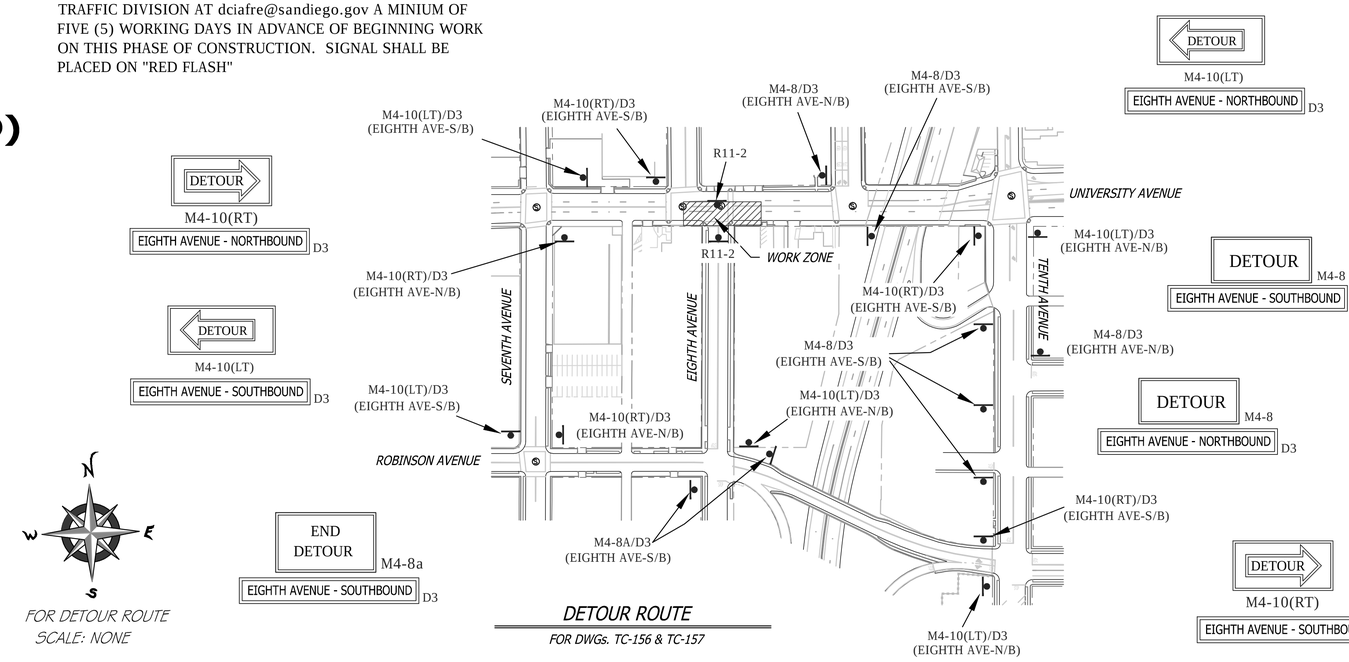
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
NINTH / TENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-156 & TC-157

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

TC-157

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 93

CITY OF SAN DIEGO, CALIFORNIA
SHEET 157 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T157-D

PHASE 94

SEE DRAWING TC-159 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

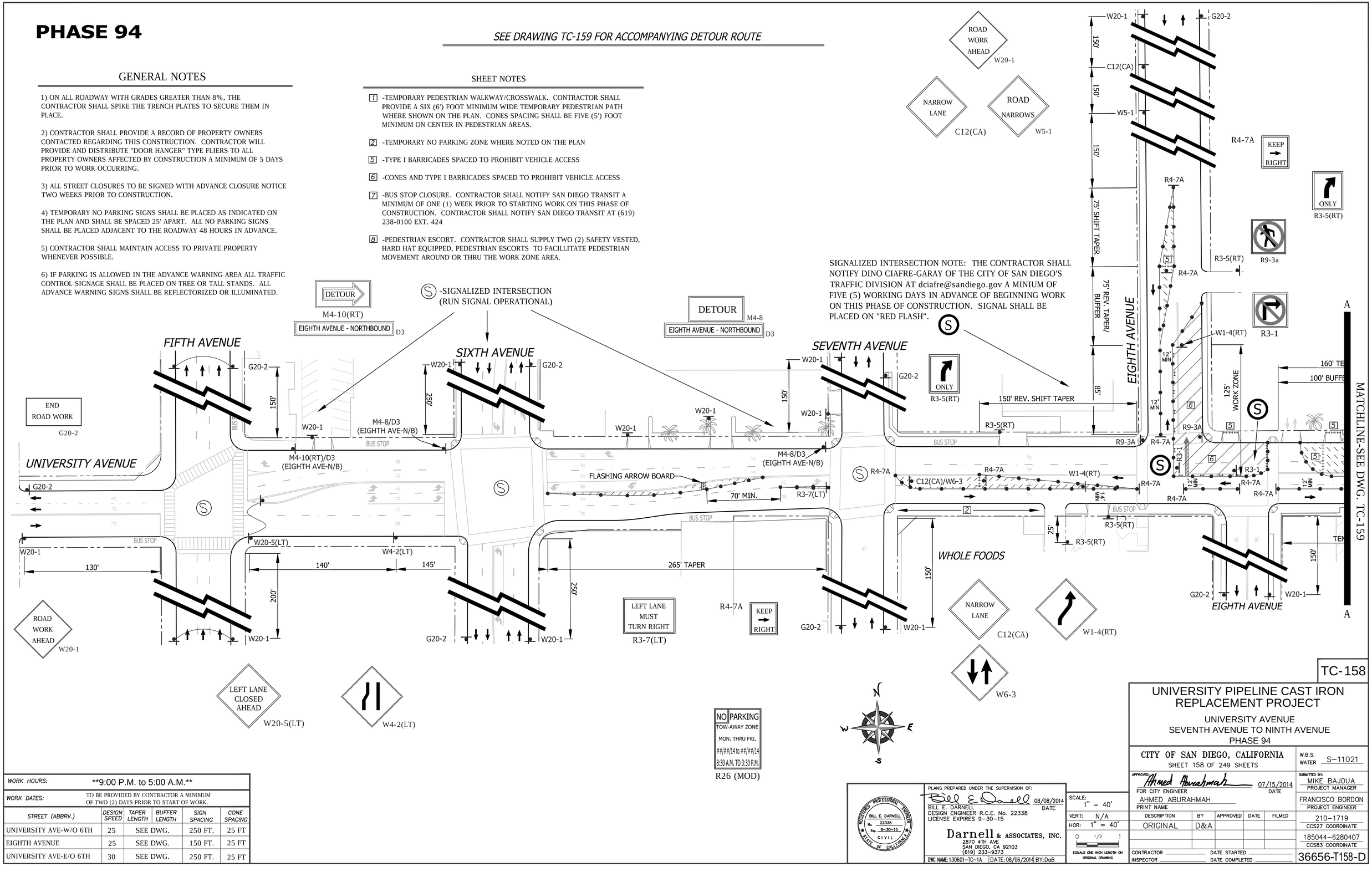
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-158

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 94

CITY OF SAN DIEGO, CALIFORNIA
SHEET 158 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

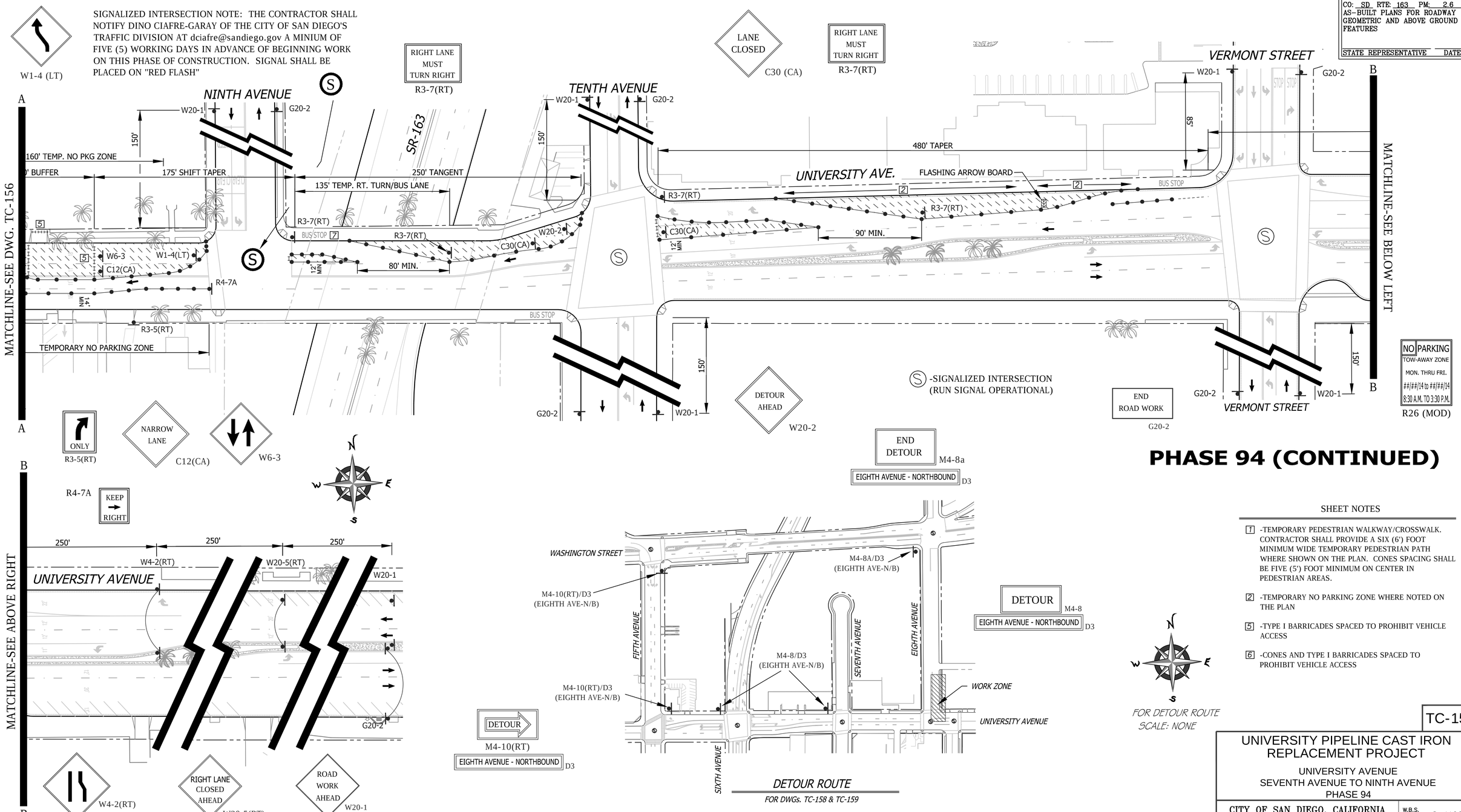
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T158-D

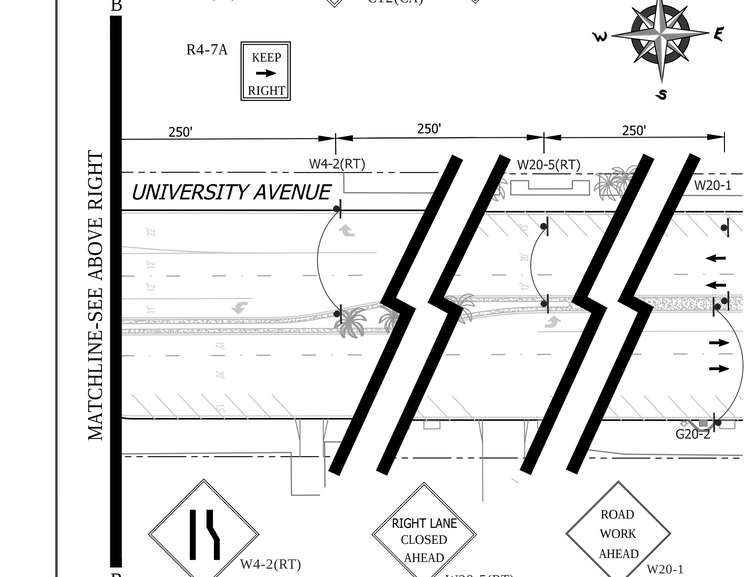
PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"



PHASE 94 (CONTINUED)



DETOUR ROUTE
FOR DWGs. TC-158 & TC-159

FOR DETOUR ROUTE
SCALE: NONE

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT AVENUE	25	N/A	N/A	SEE DWG.	25 FT
NINTH / TENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

TC-159

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 94

CITY OF SAN DIEGO, CALIFORNIA
SHEET 159 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T159-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

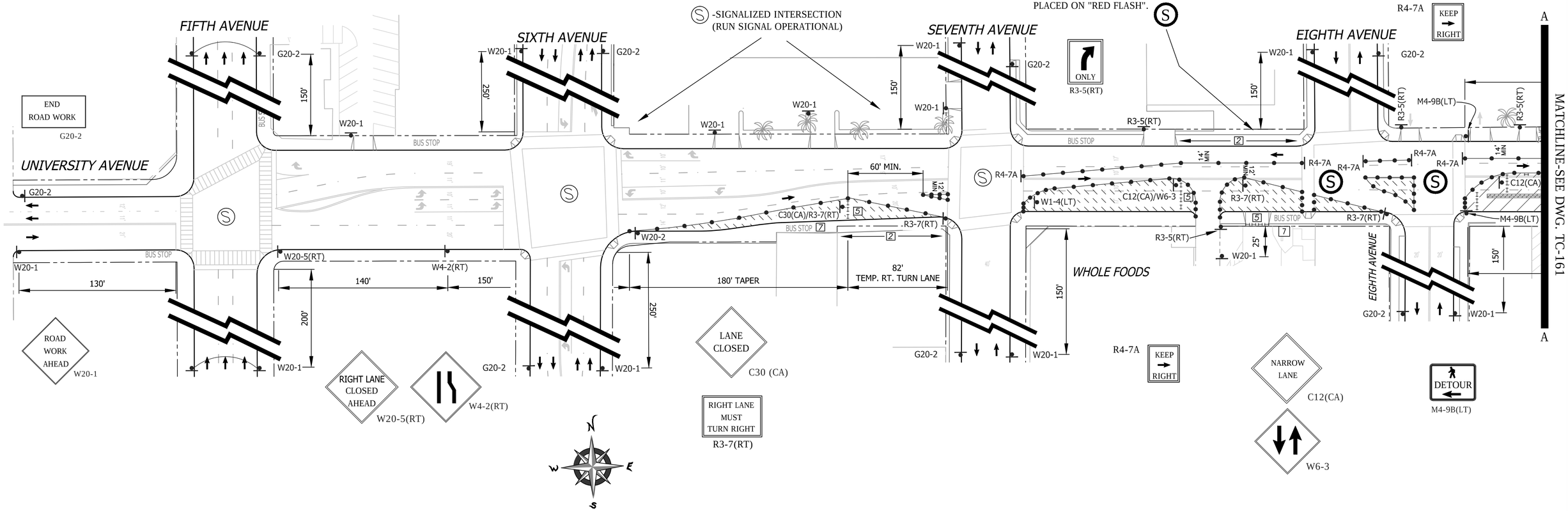
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 95

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-160

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 95

CITY OF SAN DIEGO, CALIFORNIA
SHEET 160 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

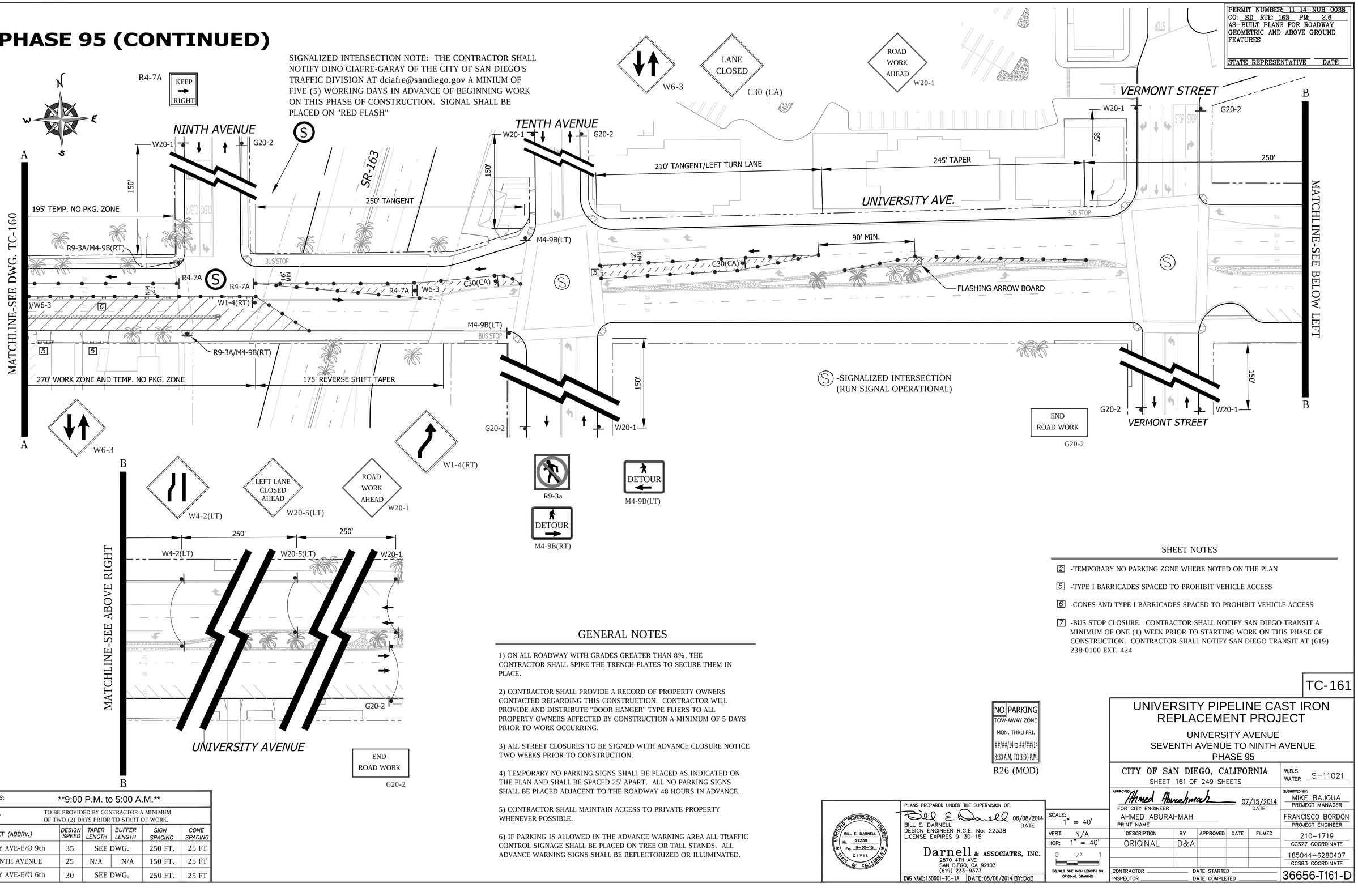
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T160-D

PHASE 95 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
NINTH / TENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-161

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 95

CITY OF SAN DIEGO, CALIFORNIA
SHEET 161 OF 249 SHEETS

W.B.S. WATER S-11021

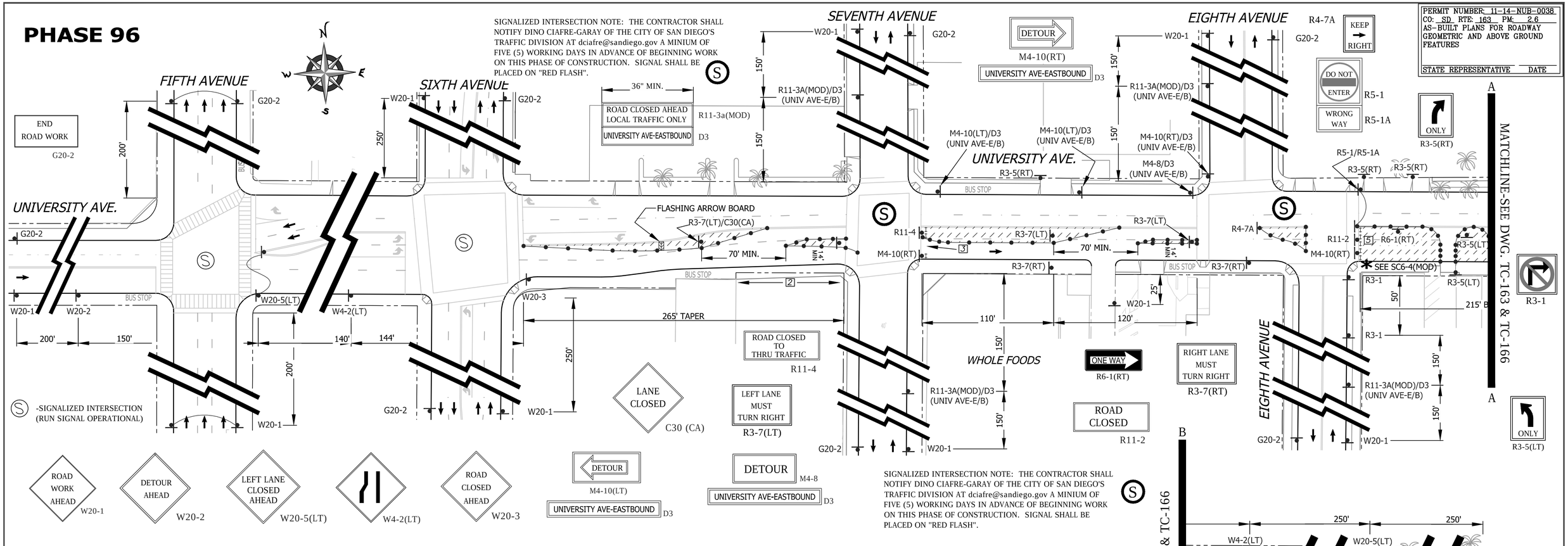
APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED
36656-T161-D

PHASE 96



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ROAD WORK AHEAD W20-1

DETOUR AHEAD W20-2

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

ROAD CLOSED AHEAD W20-3

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SEE DRAWING TC-163 FOR ACCOMPANYING DETOUR ROUTE

ROAD WORK AHEAD W20-1

W4-2(LT)

LEFT LANE CLOSED AHEAD W20-5(LT)

* 60" UNIVERSITY AVE EASTBOUND CLOSED 8th AVE to 10th AVE MON JAN 00 THRU FRI JAN 00 0 PM - 0 AM 60"

SC6-4(CA) (MOD)/D3 (UNIVERSITY AVE-E/B)

SC6-4(CA) (MOD) SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN, MARKED BY AN ASTERICK (*), A MINIMUM OF 7 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE OR TEMPORARY NO PARKING ZONE TO ACCOMMODATE ADVANCE WARNING SIGN VISIBILITY

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

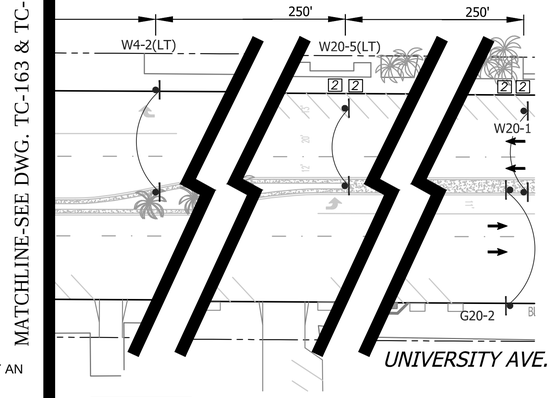
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE E/O 9th	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNVIVERSITY AVE E/O 6th	30	SEE DWG.		200 FT.	25 FT



END ROAD WORK G20-2

PERMIT NUMBER: 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

TC-162

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
BRIDGE CROSSING OVER SR-163
PHASE 96

CITY OF SAN DIEGO, CALIFORNIA
SHEET 162 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
36656-T162-D

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

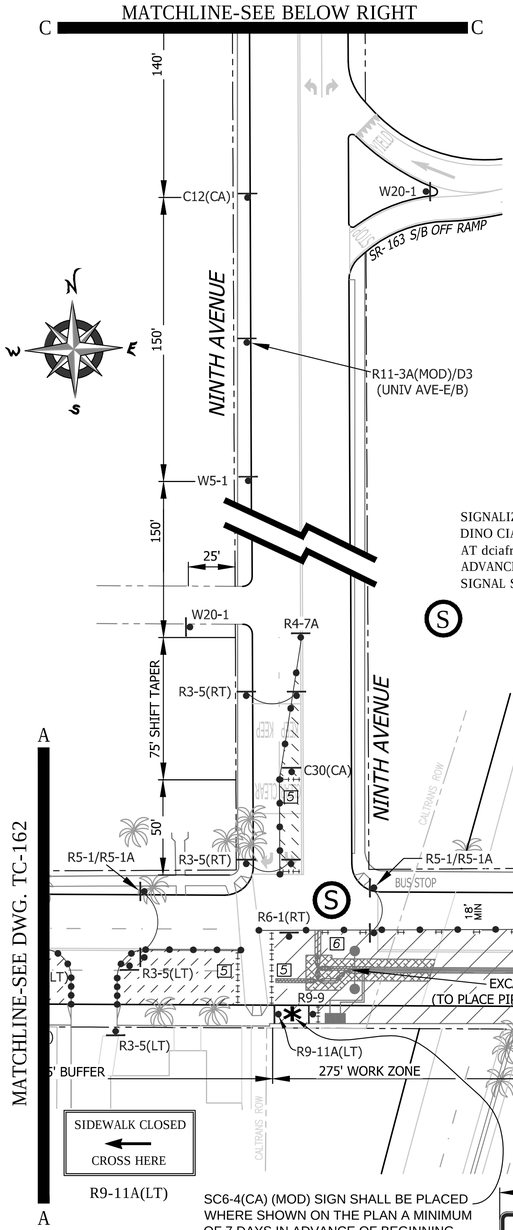
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

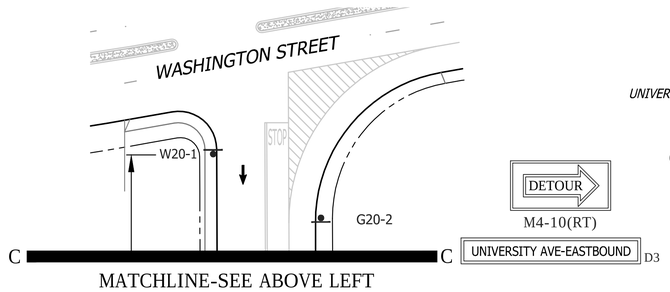
DWG NAME:130601-TC-1A | DATE:08/06/2014 BY:DaB

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

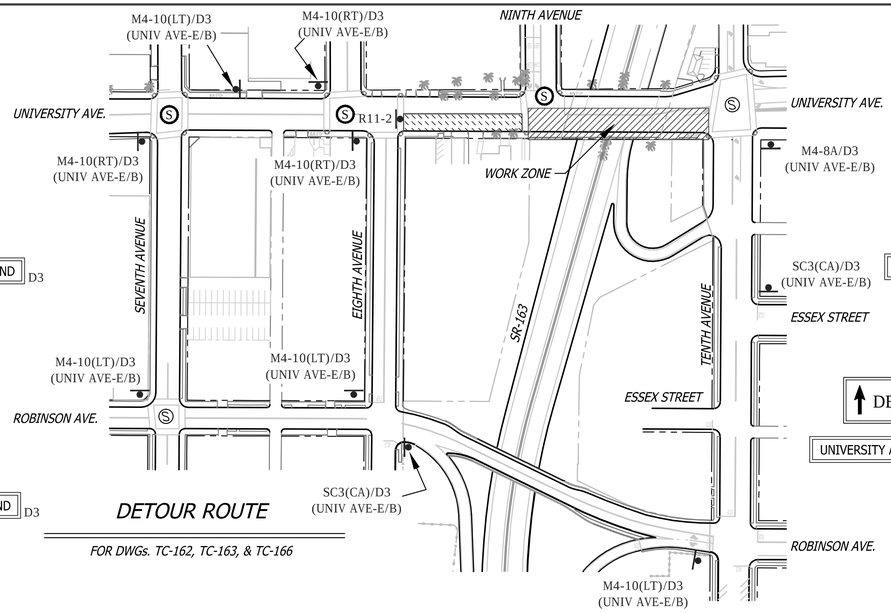
PHASE 96 (CONTINUED)





DETOUR
M4-10(RT)
UNIVERSITY AVE-EASTBOUND D3

DETOUR
M4-10(LT)
UNIVERSITY AVE-EASTBOUND D3



DETOUR ROUTE

FOR DWGs. TC-162, TC-163, & TC-166

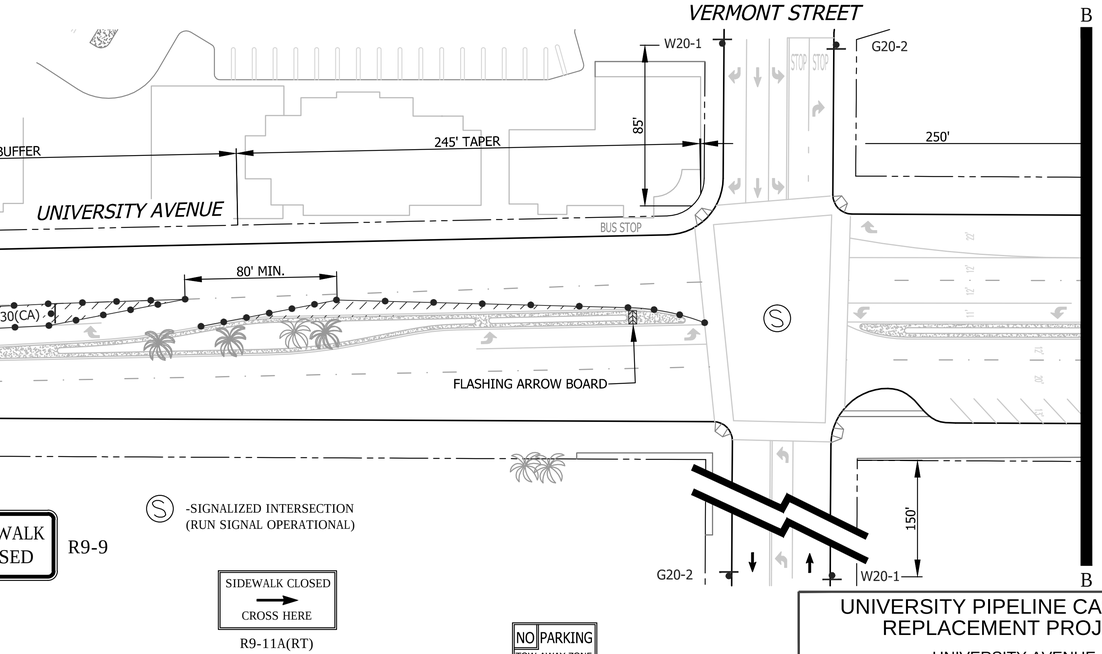
END DETOUR
M4-8a
UNIVERSITY AVE-EASTBOUND D3

DETOUR SC3(CA)
UNIVERSITY AVE-EASTBOUND D3

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIDEWALK CLOSED
CROSS HERE
R9-11A(RT)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SC6-4(CA) (MOD) SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN A MINIMUM OF 7 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

60"
UNIVERSITY AVE EASTBOUND CLOSED
8th AVE to 10th AVE
MON JAN 00
THRU
FRI JAN 00
0 PM - 0 AM
60"
SC6-4(CA) (MOD)/D3
(UNIVERSITY AVE-E/B)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE E/O 9th	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNVIVERSITY AVE E/O 6th	30	SEE DWG.		200 FT.	25 FT

SHEET NOTES

7 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE OR TEMPORARY NO PARKING ZONE TO ACCOMMODATE ADVANCE WARNING SIGN VISIBILITY

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

SHEET NOTES

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-163

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
BRIDGE CROSSING OVER SR-163
(CONTINUATION SHEET FOR TC-162) PHASE 96

CITY OF SAN DIEGO, CALIFORNIA
SHEET 163 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T163-D

PHASE 97

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

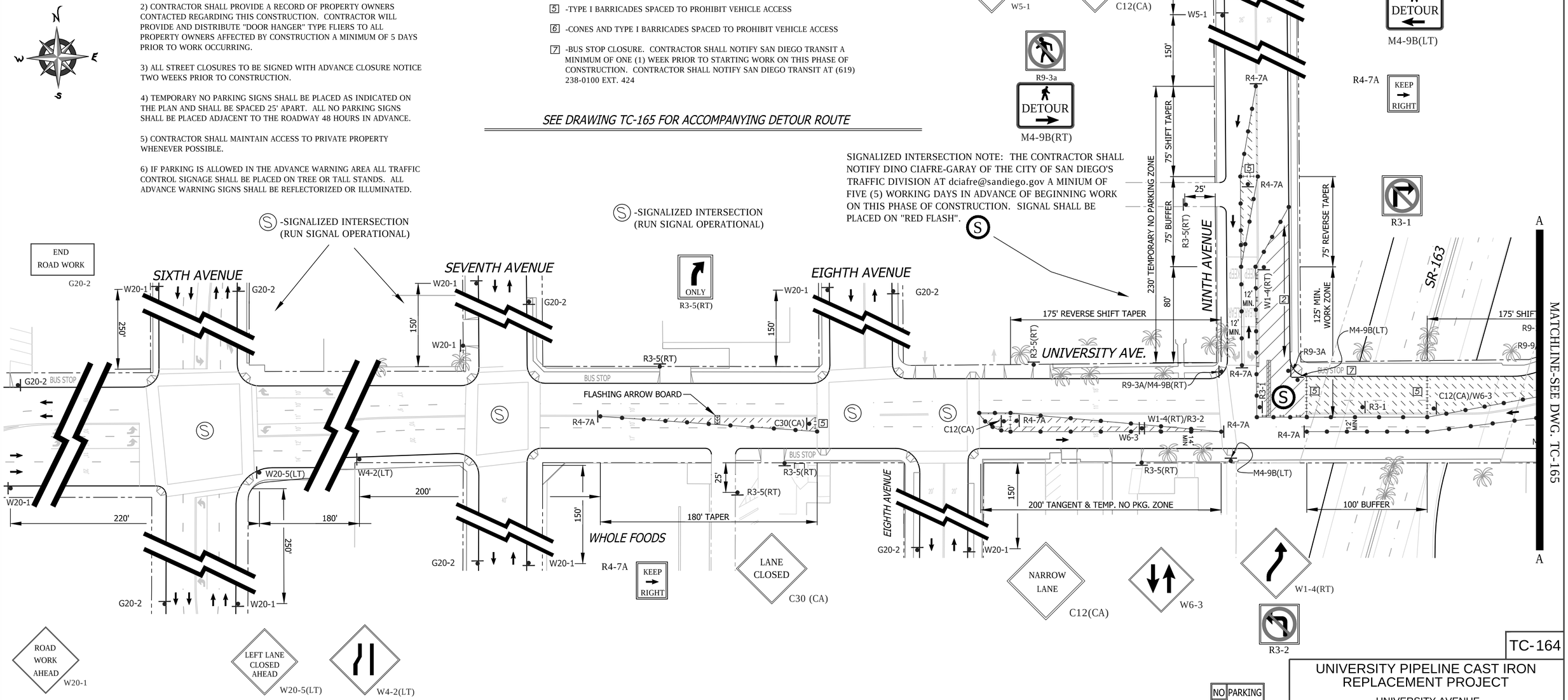
[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

SEE DRAWING TC-165 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.	250 FT.	25 FT	
EIGHTH AVENUE	25	SEE DWG.	150 FT.	25 FT	
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.	250 FT.	25 FT	

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PERMIT NUMBER: 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-164

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NINTH AVENUE
PHASE 97

CITY OF SAN DIEGO, CALIFORNIA
SHEET 164 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

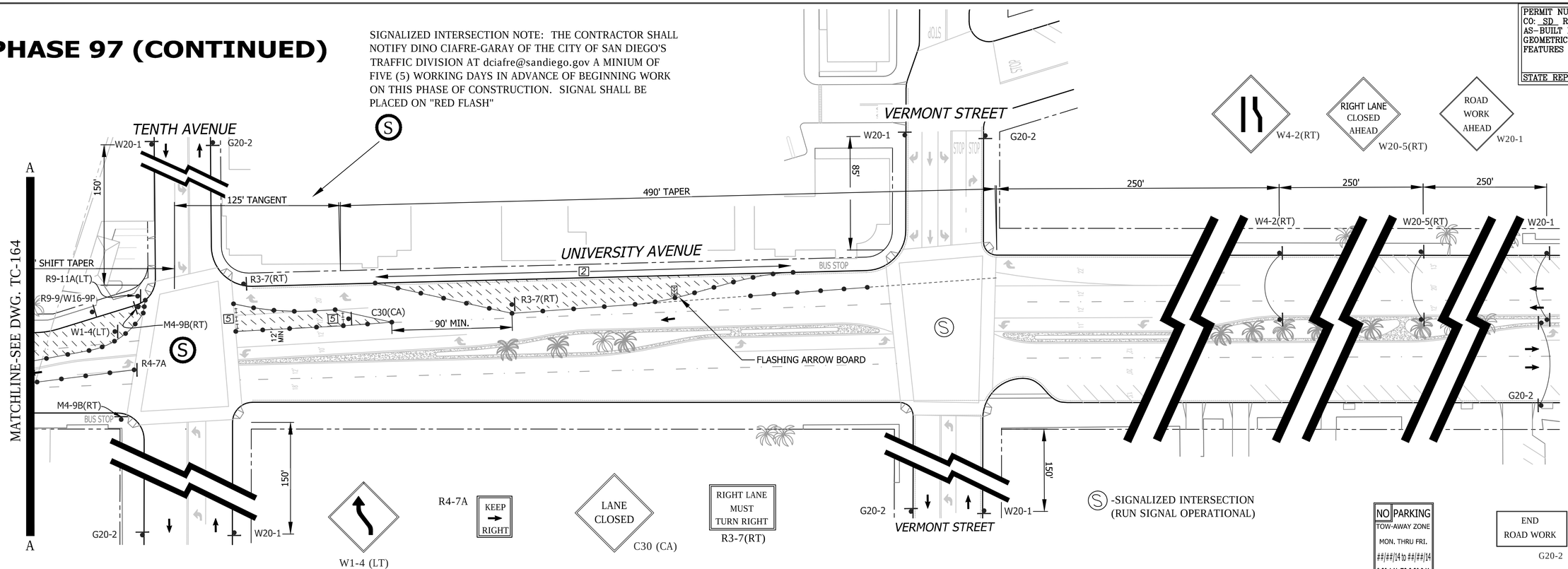
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T164-D

PHASE 97 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

PERMIT NUMBER: 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

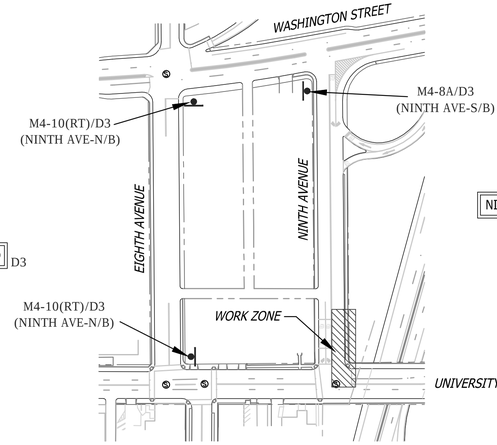
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

FOR DETOUR ROUTE
SCALE: NONE

DETOUR
M4-10(RT)
NINTH AVENUE - NORTHBOUND D3

END DETOUR
M4-8a
NINTH AVENUE - SOUTHBOUND D3



DETOUR ROUTE
FOR DWGs. TC-164 & TC-165

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
TENTH/VERMONT	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

TC-165

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NINTH AVENUE
PHASE 97

CITY OF SAN DIEGO, CALIFORNIA
SHEET 165 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T165-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 98 (CONTINUED)

SEE DRAWING TC-163 FOR ACCOMPANYING DETOUR ROUTE

PERMIT NUMBER:11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

MATCHLINE-SEE BELOW

C C

ROAD NARROWS W5-1

W5-1 150' 25'

ONLY R3-5(RT)

W20-1 R4-7A

KEEP RIGHT R4-7A

NINTH AVENUE

SR-163

R5-1 DO NOT ENTER WRONG WAY R5-1A

R3-5(RT) 75' SHIFT TAPER

C30(CA) 5

50'

R5-1/R5-1A R3-5(RT)

250' TANGENT

CALTRANS ROW

BUS STOP

W20-1 W20-2 W20-3 120'

G20-2

R3-7(RT) 75'

12" MIN

R9-3A

R3-7(RT)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

R9-3a

ROAD CLOSED AHEAD W20-3

DETOUR AHEAD W20-2

ROAD WORK AHEAD W20-1

VERMONT STREET

W20-1 85'

G20-2 END ROAD WORK G20-2

250'

245' BUFFER 245' TAPER

UNIVERSITY AVENUE

BUS STOP

80' MIN.

12" MIN 12" MIN C30(CA)

FLASHING ARROW BOARD

B B

MATCHLINE-SEE DWG. TC-162

MATCHLINE-SEE DWG. TC-162

A A

R6-1(RT) R3-5(LT) 5 7 5 R11-2

SC6-4(CA)(Mod)

12" MIN C30(CA) 6 5 6 R9-3A R4-7A

7 BUS STOP

R3-5(LT)

BUFFER 200' BUFFER 150' WORK ZONE

W1-4(RT) 12" MIN

TENTH AVENUE 85'

C12(CA)

R4-7A R4-7A

25' W20-1

ONE WAY R6-1(RT)

ROAD CLOSED R11-2

100' REVERSE SHIFT TAPER

CALTRANS ROW

ONLY R3-5(LT)

WASHINGTON STREET

R4-7A KEEP RIGHT

W20-1 G20-2

NINTH AVENUE 140'

C12(CA)

W1-4(RT)

SR-163 N/B ON-RAMP

R4-7A 2 100' SHIFT TAPER 50' W20-1 R4-7A

NARROW LANE C12(CA)

W20-1

SR-163 S/B OFF RAMP

36" MIN.

ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY R11-3a(MOD)

UNIVERSITY AVE-EASTBOUND D3

ESSEX STREET

G20-2

150'

R11-3A(MOD)/D3 (UNIV AVE-E/B)

60"

UNIVERSITY AVE EASTBOUND CLOSED 8th AVE to 10th AVE MON JAN 00 THRU FRI JAN 00 0 PM - 0 AM

60"

SC6-4(CA) (MOD)/D3 (UNIVERSITY AVE-E/B)

C C

MATCHLINE-SEE ABOVE

S SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

S SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

LANE CLOSED C30 (CA)

G20-2 150' W20-1

ROAD WORK AHEAD W20-1

S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ONEIDA WAY

50' W20-1 25' W20-1

W5-1

ROAD NARROWS W5-1

NARROW LANE C12(CA)

TENTH AVENUE

150' C12(CA) 150'

G20-2 W20-1

ROAD WORK AHEAD W20-1

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK/WALKWAY. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.	250 FT.	25 FT	
TENTH AVENUE	25	SEE DWG.	150 FT.	25 FT	
UNIVERSITY AVE-E/O 6th	30	SEE DWG.	250 FT.	25 FT	

* SC6-4(CA) (MOD) SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN (WITH AN ASTERICK) A MINIMUM OF 7 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

TC-166

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 98

CITY OF SAN DIEGO, CALIFORNIA
SHEET 166 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T166-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 99

SEE DRAWING TC-168 FOR ACCOMPANYING DETOUR ROUTE

PERMIT NUMBER: 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

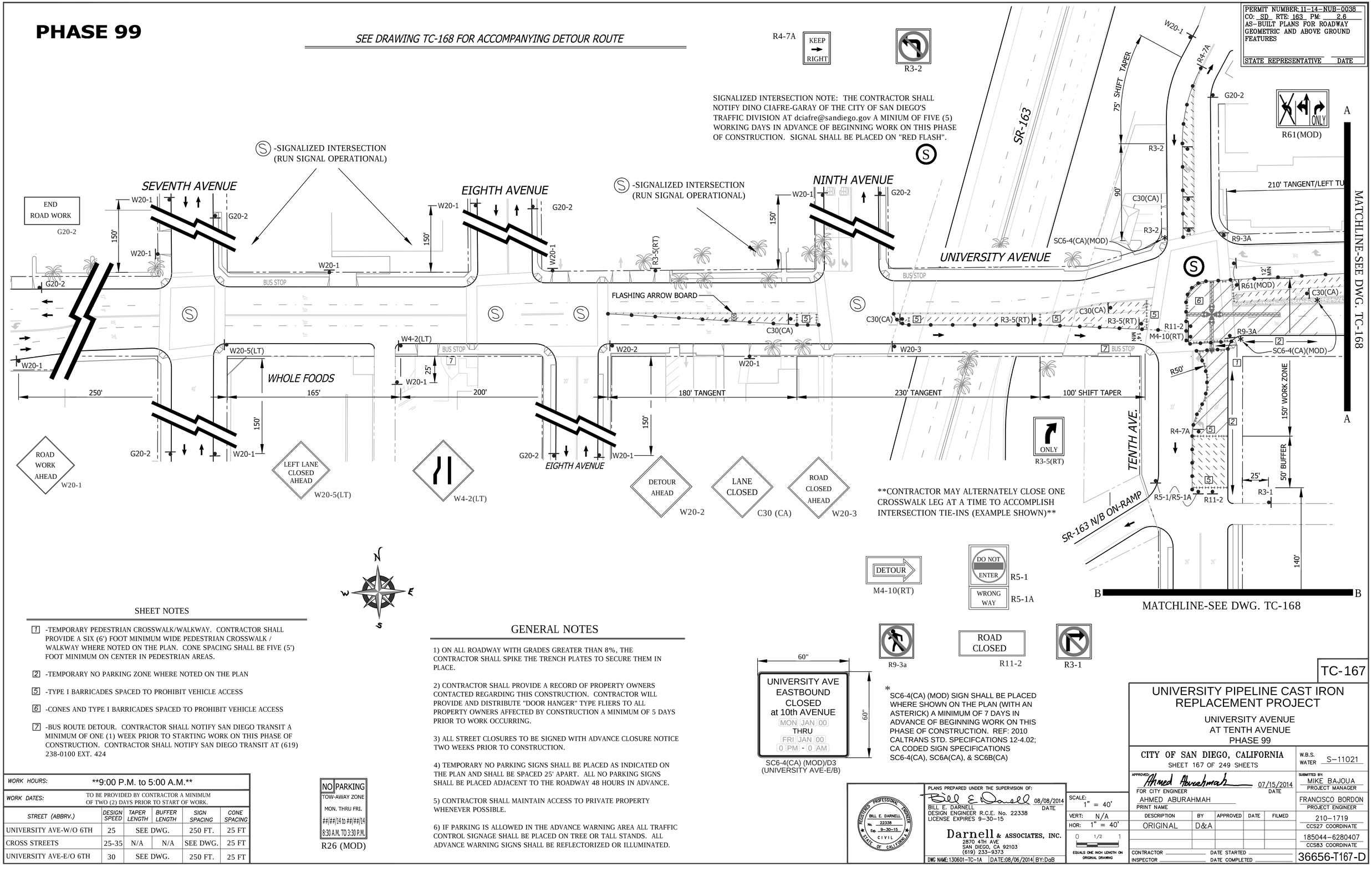
R4-7A KEEP RIGHT

R3-2

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

DETOUR M4-10(RT)

DO NOT ENTER R5-1
WRONG WAY R5-1A

R9-3a

ROAD CLOSED R11-2

R3-1

60"
UNIVERSITY AVE EASTBOUND CLOSED at 10th AVENUE
MON JAN 00
THRU
FRI JAN 00
0 PM - 0 AM
60"
SC6-4(CA) (MOD)/D3 (UNIVERSITY AVE-E/B)

* SC6-4(CA) (MOD) SIGN SHALL BE PLACED WHERE SHOWN ON THE PLAN (WITH AN ASTERICK) A MINIMUM OF 7 DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. REF: 2010 CALTRANS STD. SPECIFCATIONS 12-4.02; CA CODED SIGN SPECIFICATIONS SC6-4(CA), SC6A(CA), & SC6B(CA)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK/WALKWAY. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/06/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-167

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 99

CITY OF SAN DIEGO, CALIFORNIA
SHEET 167 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

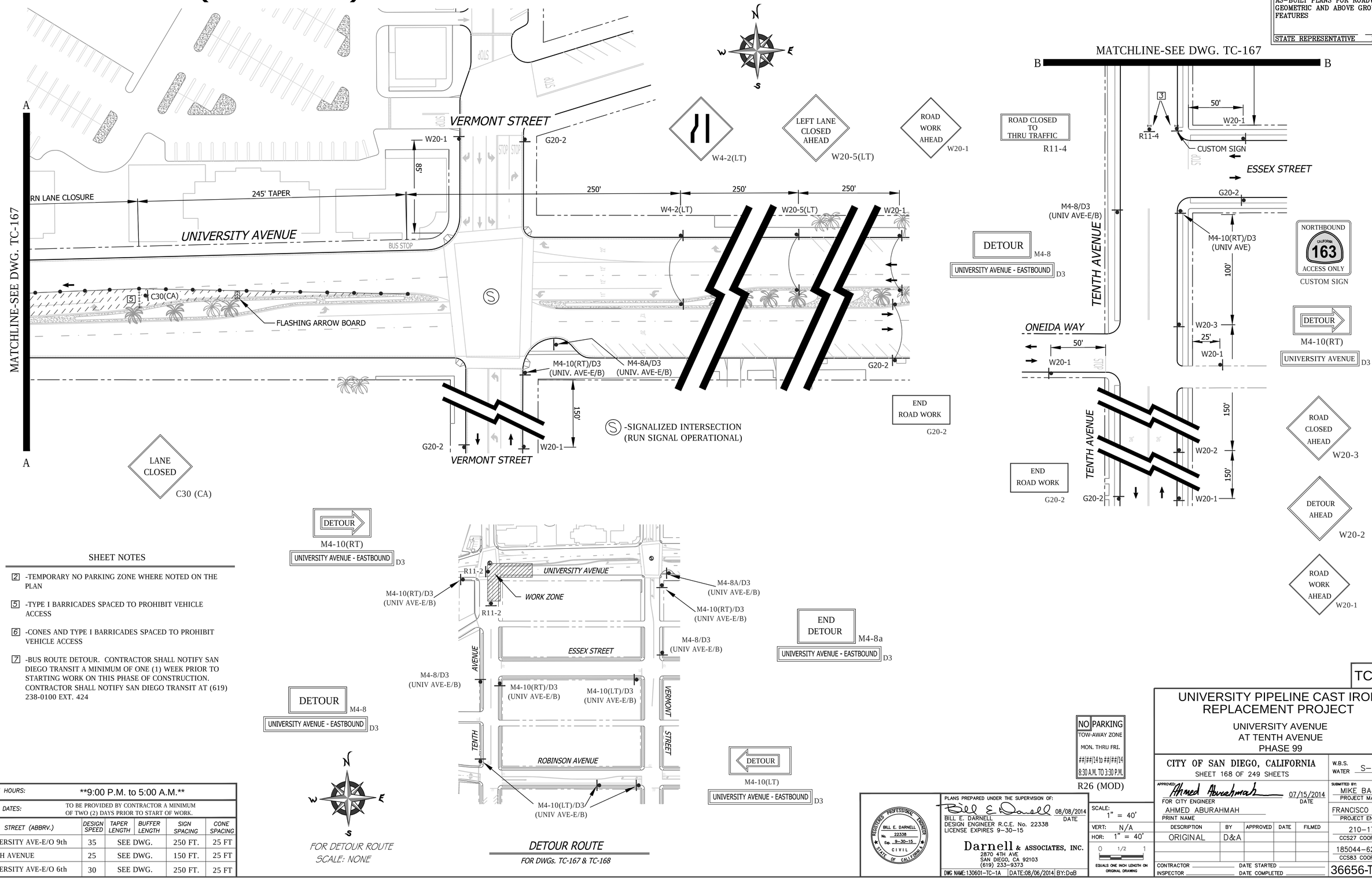
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T167-D

PHASE 99 (CONTINUED)

PERMIT NUMBER:11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
TENTH AVENUE	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-167 & TC-168

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/06/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-168

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 99

CITY OF SAN DIEGO, CALIFORNIA
SHEET 168 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

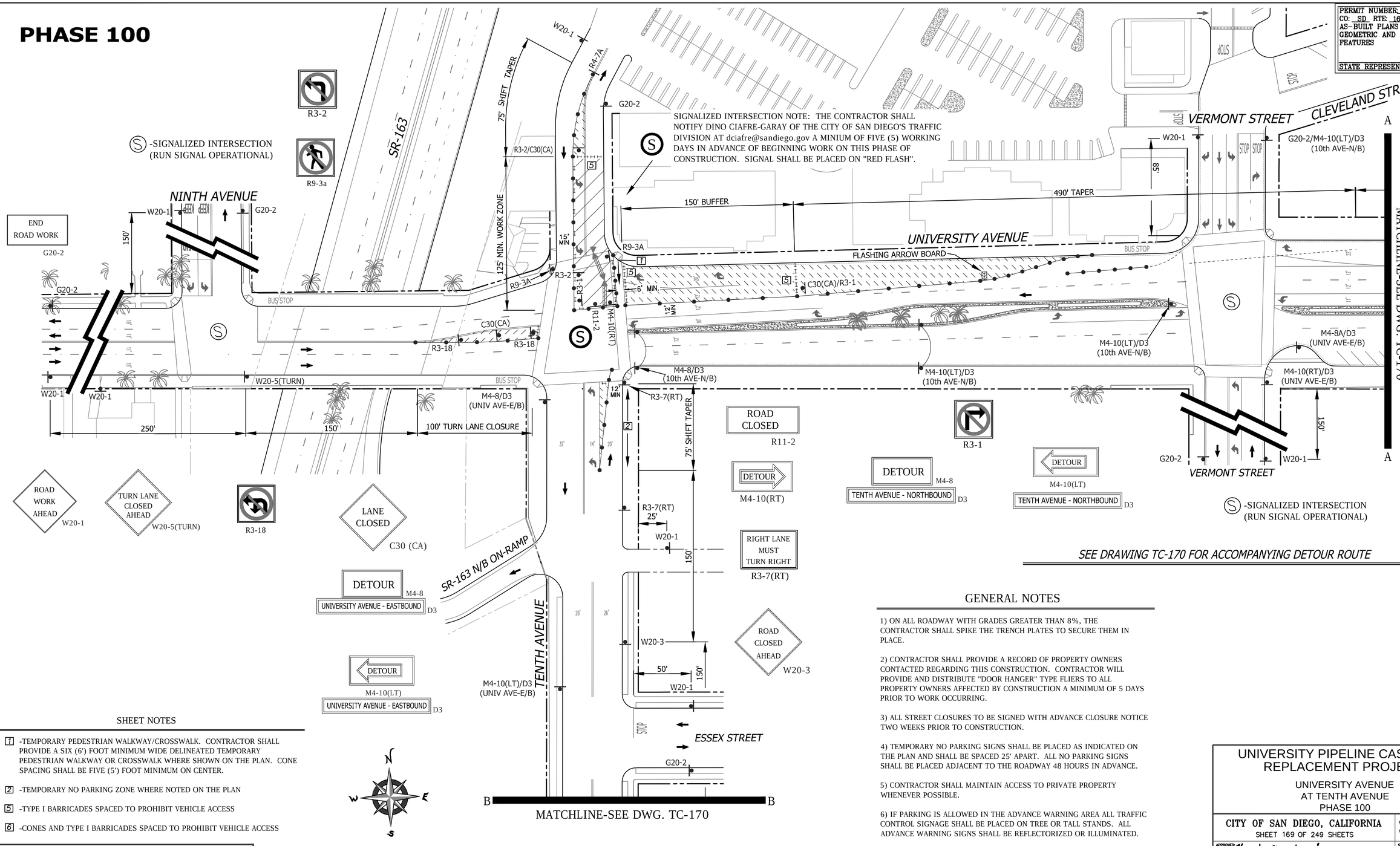
36656-T168-D

PHASE 100

PERMIT NUMBER 11-14-NUB-0038	
CO: SD	RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES	
STATE REPRESENTATIVE	DATE

Ⓢ -SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DRAWING TC-170 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE DELINEATED TEMPORARY PEDESTRIAN WALKWAY OR CROSSWALK WHERE SHOWN ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
TENTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-169

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 100

CITY OF SAN DIEGO, CALIFORNIA
SHEET 169 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T169-D

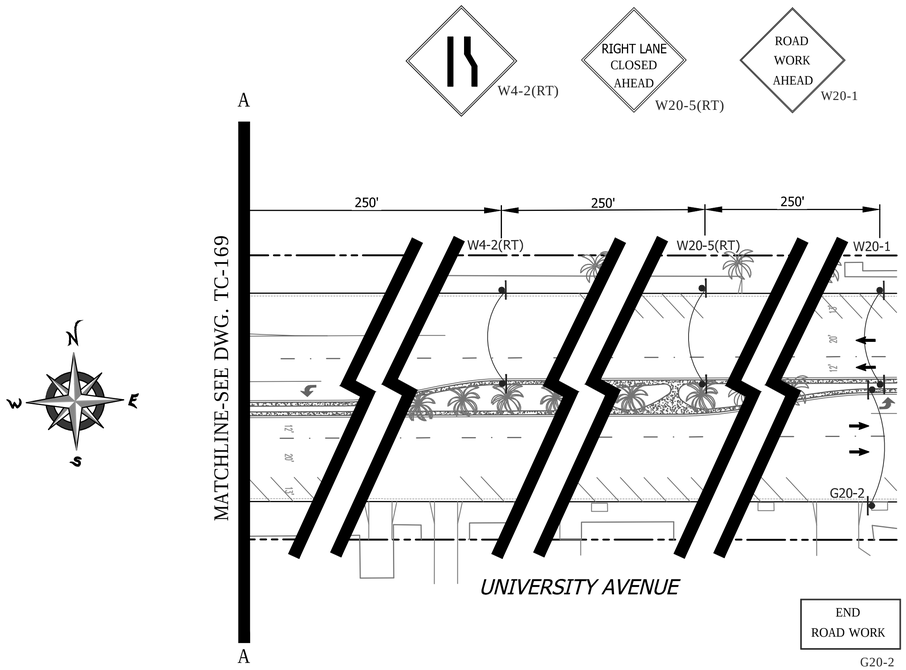
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 09/23/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

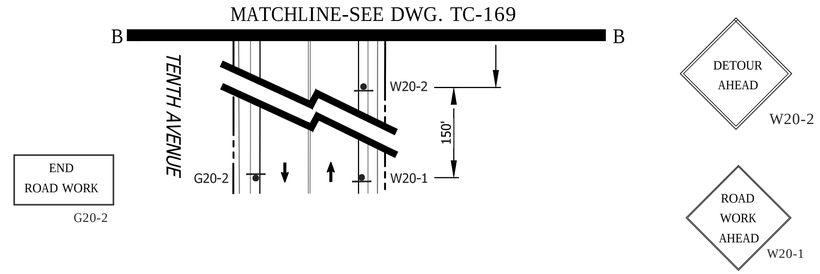
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:09/23/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 100 (CONTINUED)



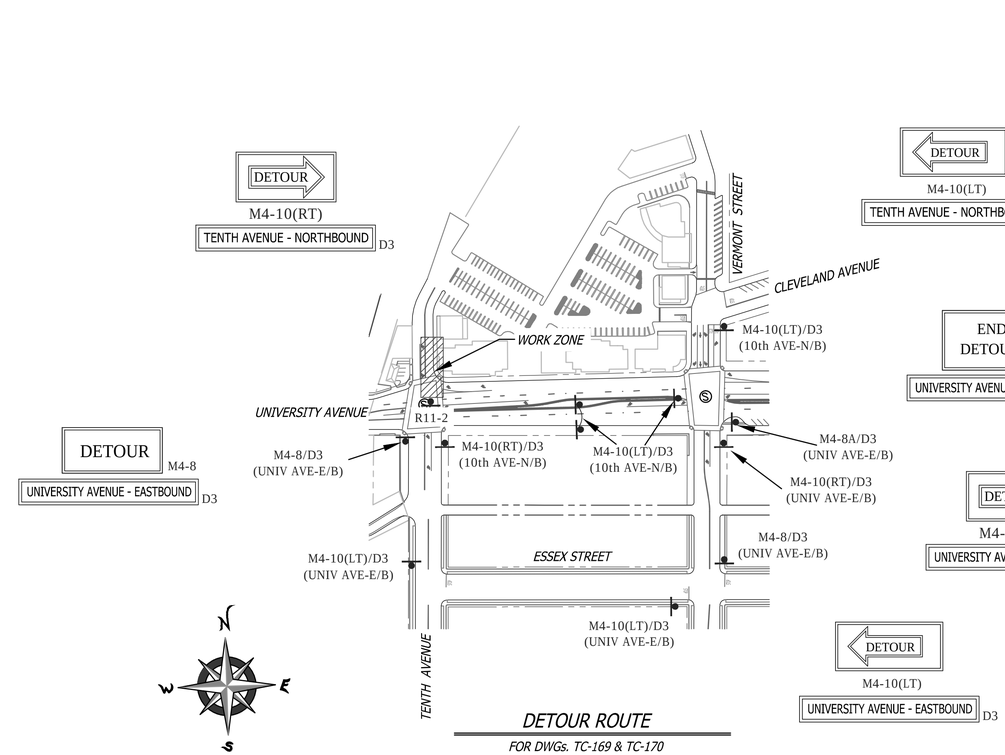
SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424



DETOUR ROUTE

FOR DWGs. TC-169 & TC-170

FOR DETOUR ROUTE
SCALE: NONE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
TENTH AVENUE	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

TC-170

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 100

CITY OF SAN DIEGO, CALIFORNIA
SHEET 170 OF 249 SHEETS

W.B.S.
WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1719
CCS27 COORDINATE
185044–6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T170-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 09/23/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

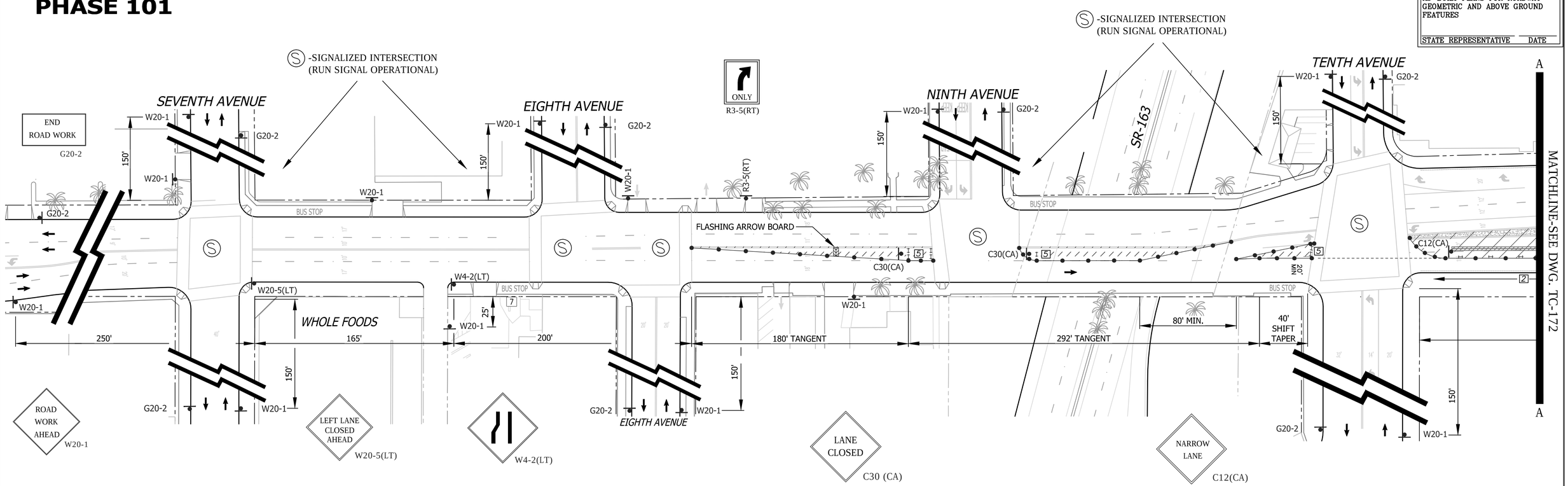
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME:130601–TC–1A | DATE:09/23/2014 BY:DaB

SCALE:
1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 101

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE



SEE DRAWING TC-172 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
CROSS STREETS	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/07/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-171

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TENTH AVENUE TO VERMONT STREET
PHASE 101

CITY OF SAN DIEGO, CALIFORNIA
SHEET 171 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

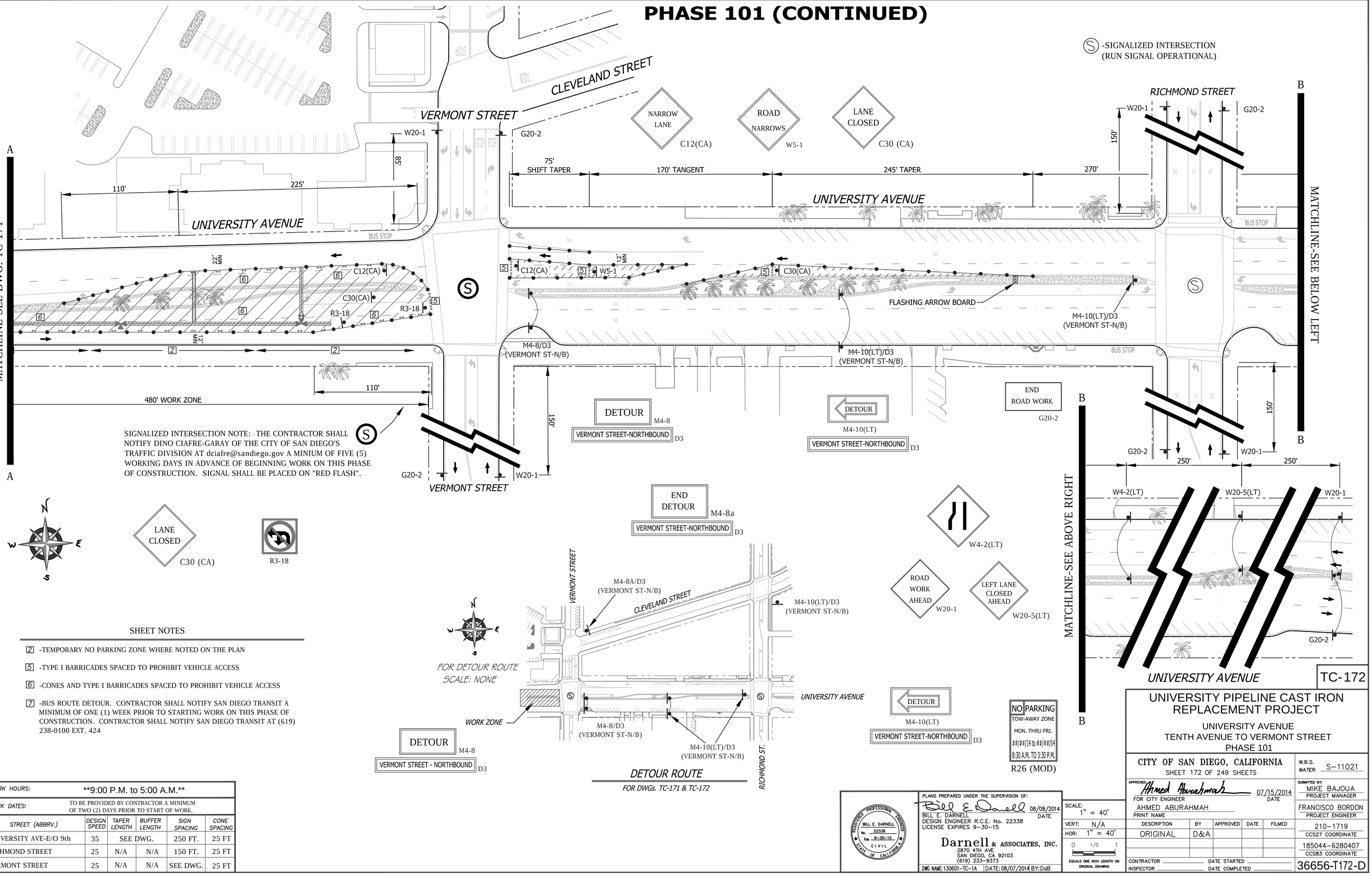
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T171-D

PHASE 101 (CONTINUED)

Ⓢ -SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
RICHMOND STREET	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT

TC-172

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TENTH AVENUE TO VERMONT STREET
PHASE 101

CITY OF SAN DIEGO, CALIFORNIA
SHEET 172 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T172-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

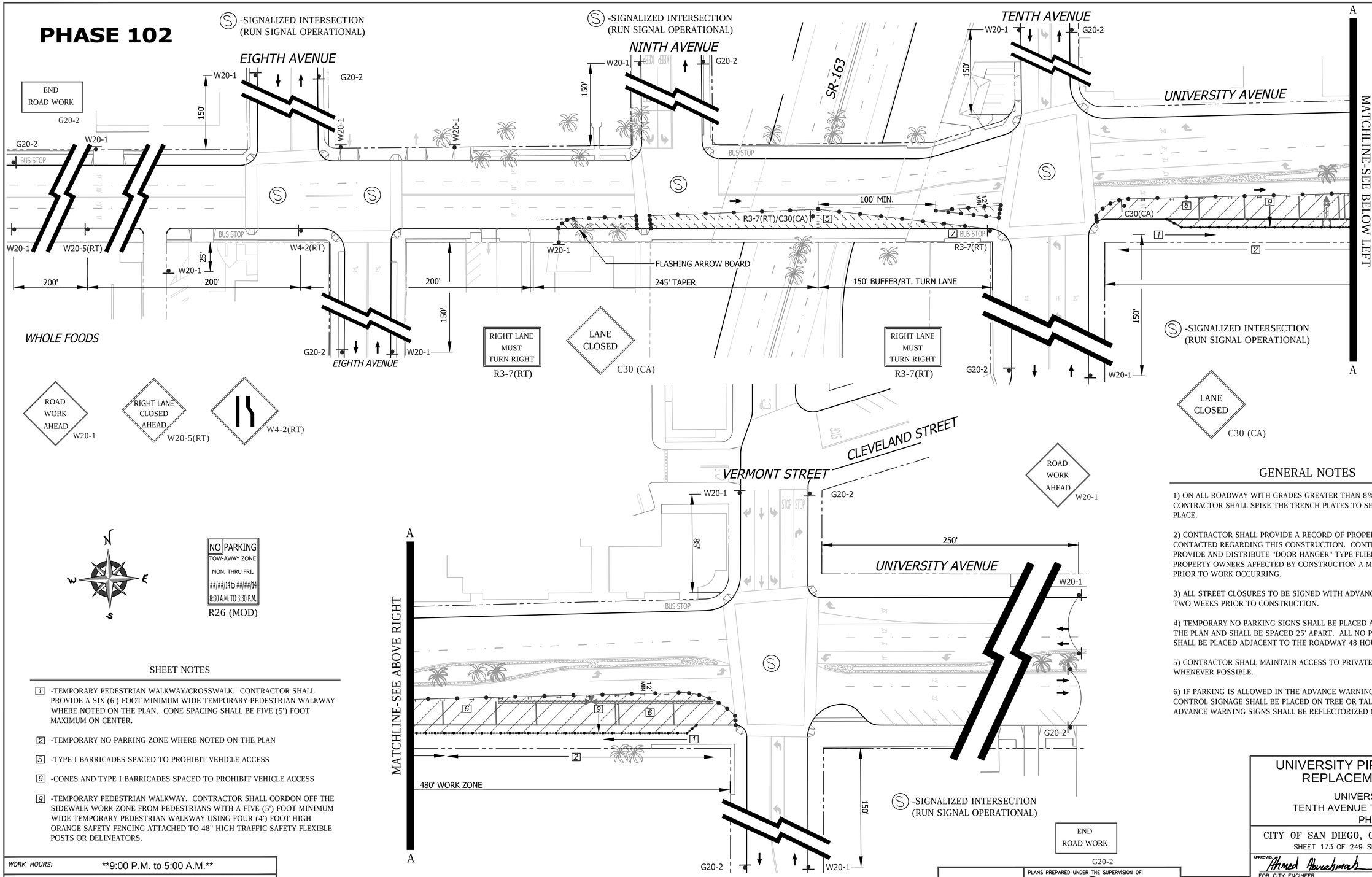
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE: 08/07/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 102



PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC-173

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TENTH AVENUE TO VERMONT STREET
PHASE 102

CITY OF SAN DIEGO, CALIFORNIA
SHEET 173 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T173-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

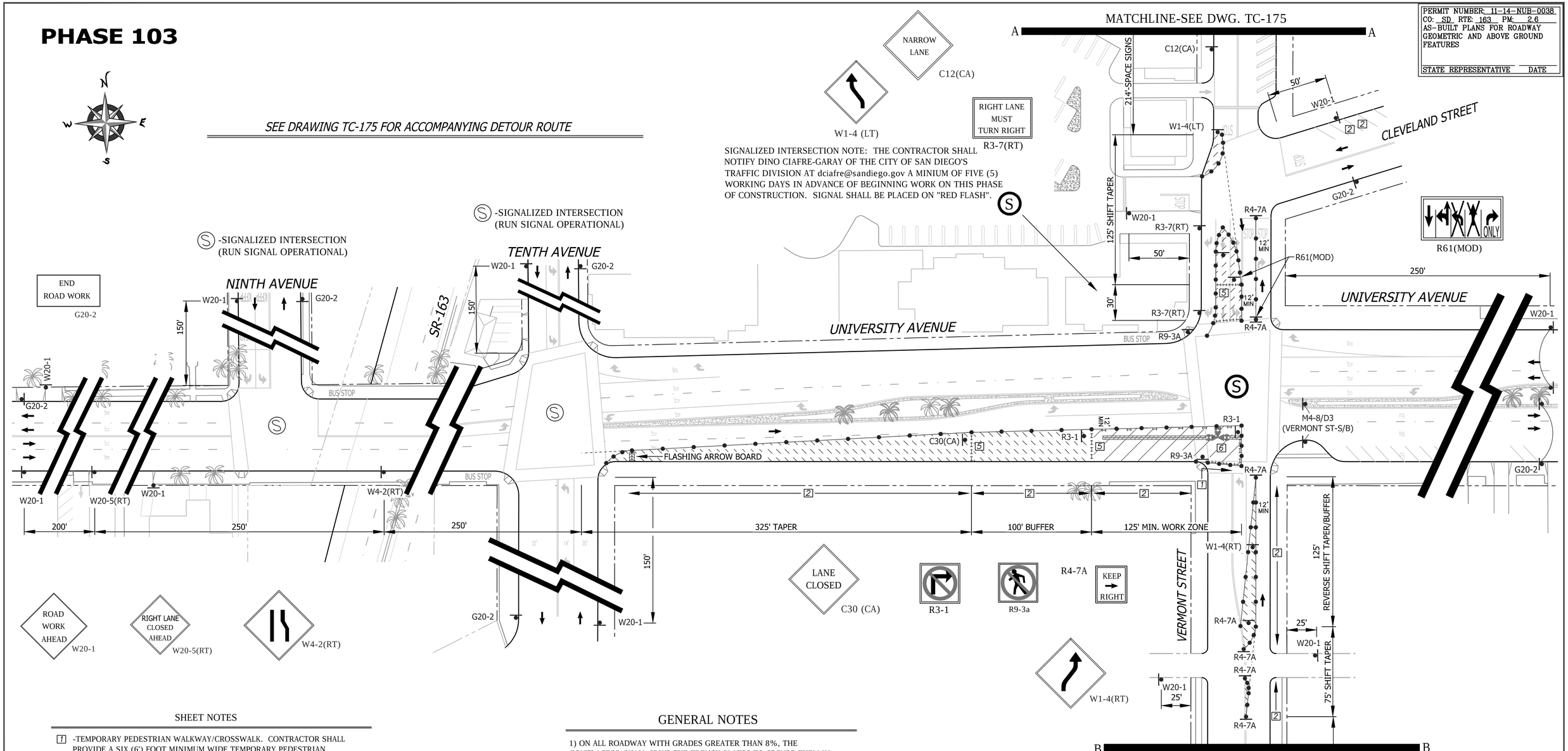
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/07/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 103

SEE DRAWING TC-175 FOR ACCOMPANYING DETOUR ROUTE



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/07/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-174

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 103

CITY OF SAN DIEGO, CALIFORNIA
SHEET 174 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

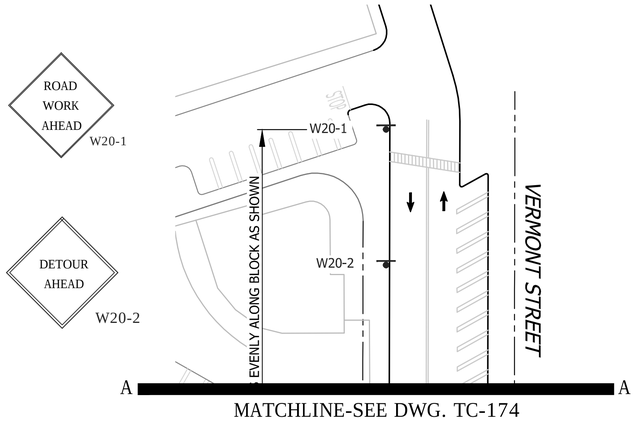
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T174-D

PHASE 103 (CONTINUED)



MATCHLINE-SEE DWG. TC-174

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

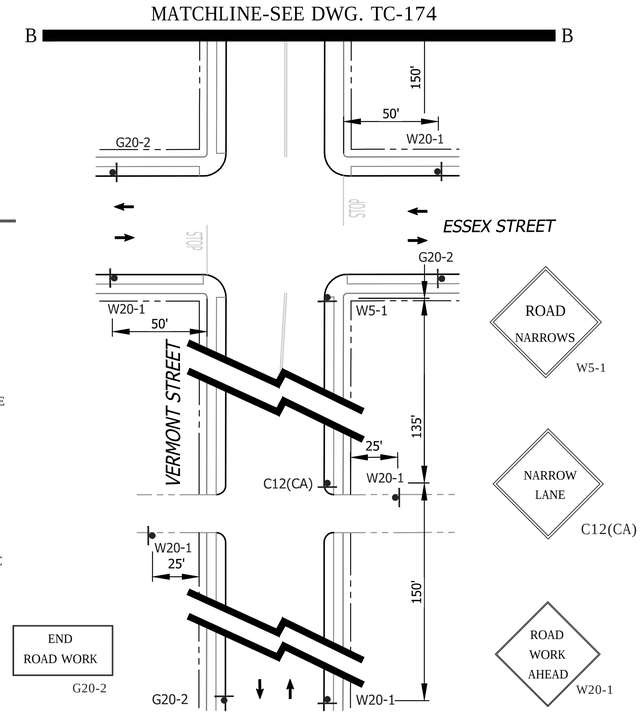
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



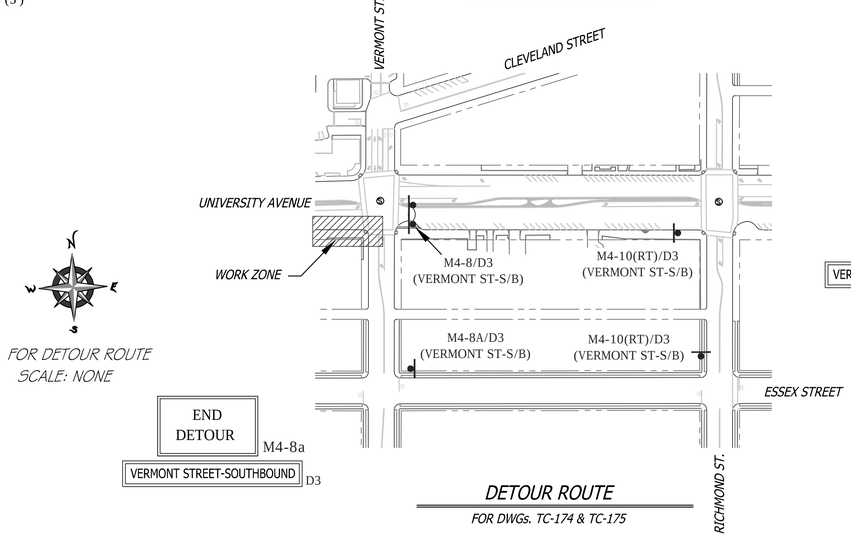
SHEET NOTES

7 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

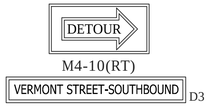
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



DETOUR ROUTE

FOR DWGs. TC-174 & TC-175

FOR DETOUR ROUTE
SCALE: NONE



NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:08/07/2014 BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-175

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 103

CITY OF SAN DIEGO, CALIFORNIA
SHEET 175 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

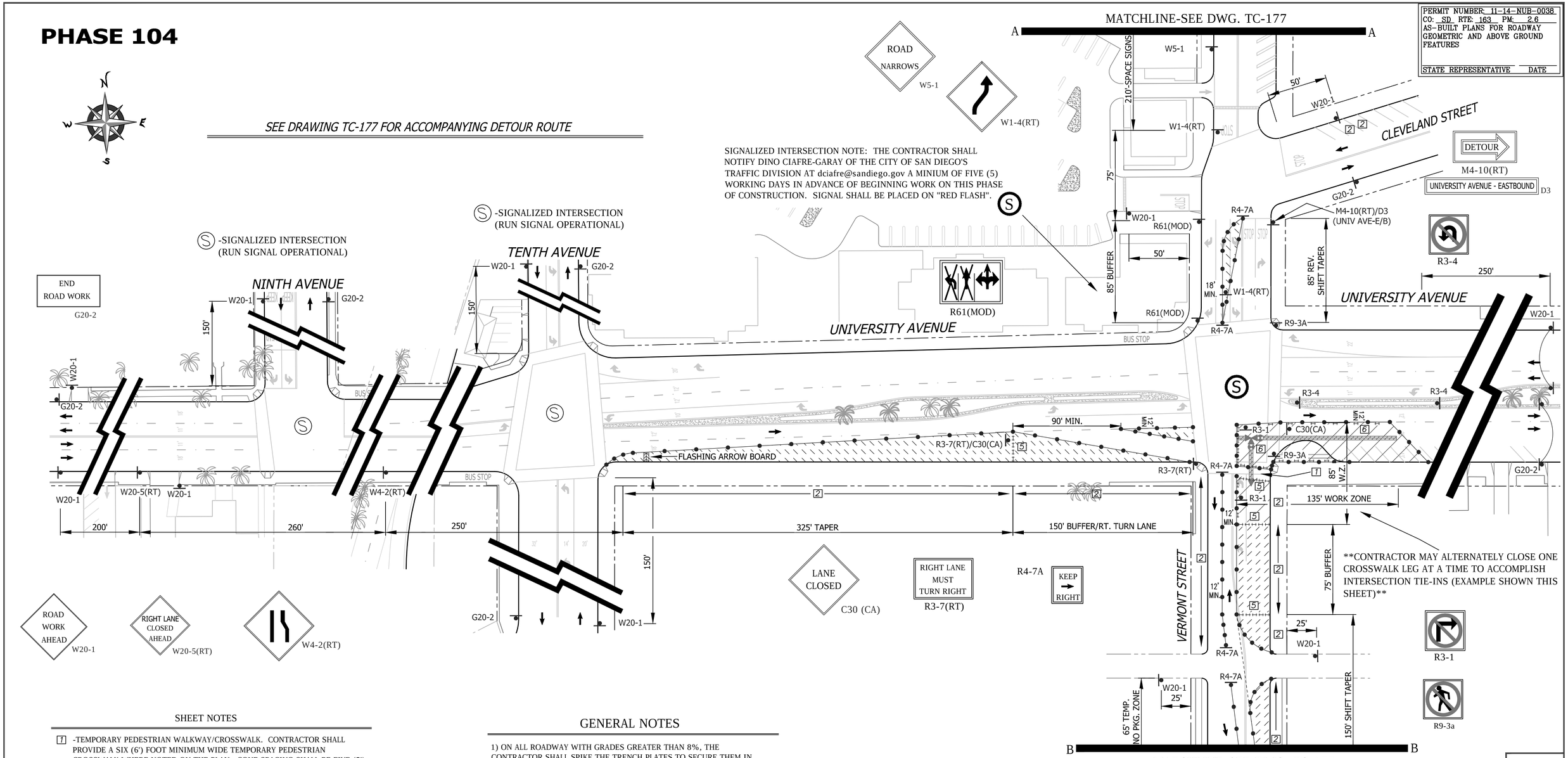
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T175-D

PHASE 104

SEE DRAWING TC-177 FOR ACCOMPANYING DETOUR ROUTE



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

R4-7A KEEP → RIGHT

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN THIS SHEET)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/07/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-176

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 104

CITY OF SAN DIEGO, CALIFORNIA
SHEET 176 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

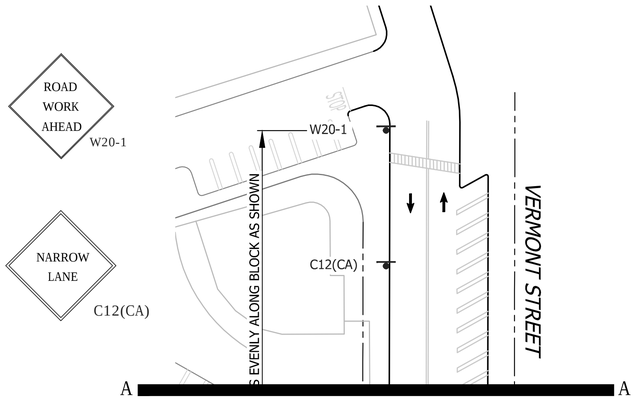
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T176-D

PHASE 104 (CONTINUED)



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

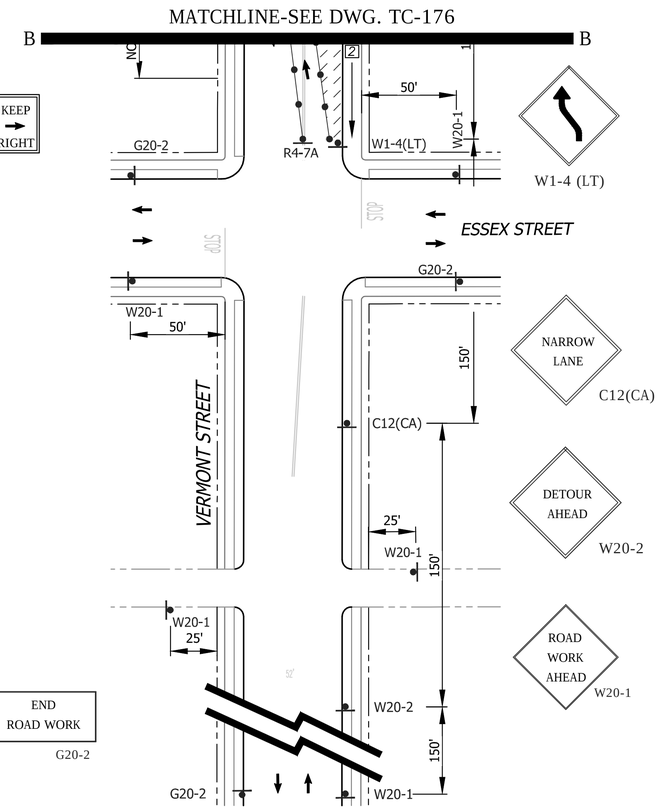
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SHEET NOTES

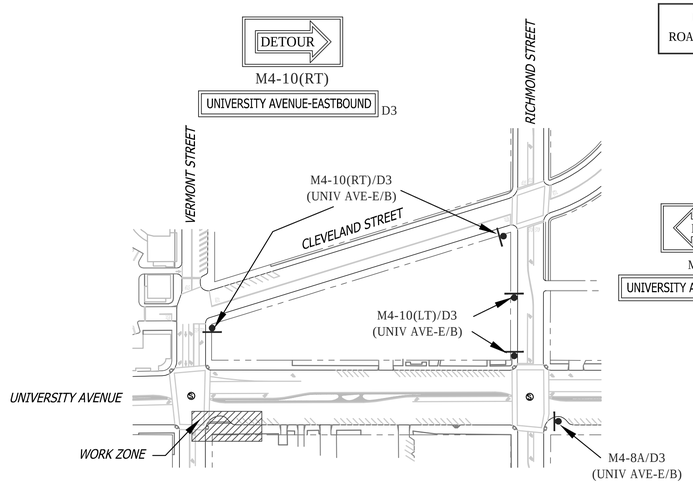
[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

FOR DETOUR ROUTE
SCALE: NONE



DETOUR ROUTE

FOR DWGs. TC-176 & TC-177

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 08/08/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/07/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-177

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 104

CITY OF SAN DIEGO, CALIFORNIA
SHEET 177 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T177-D

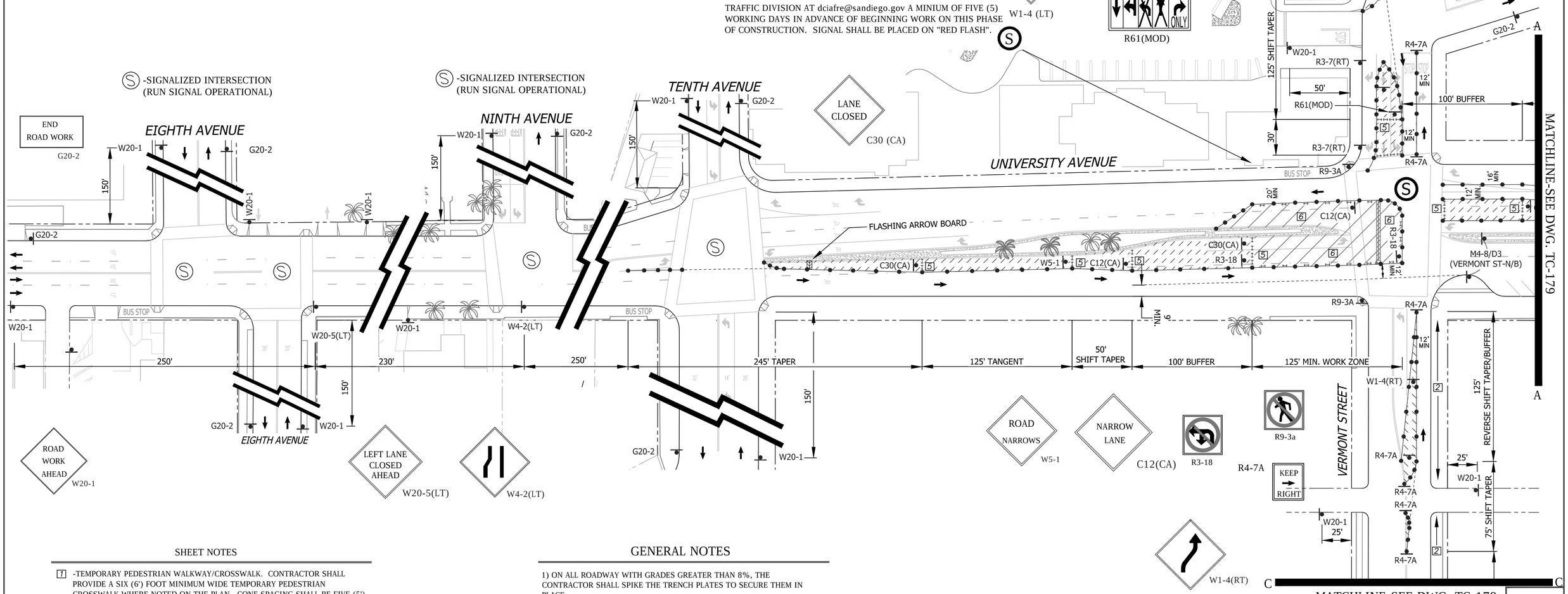
PHASE 105

SEE DRAWING TC-179 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 105

CITY OF SAN DIEGO, CALIFORNIA
SHEET 178 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

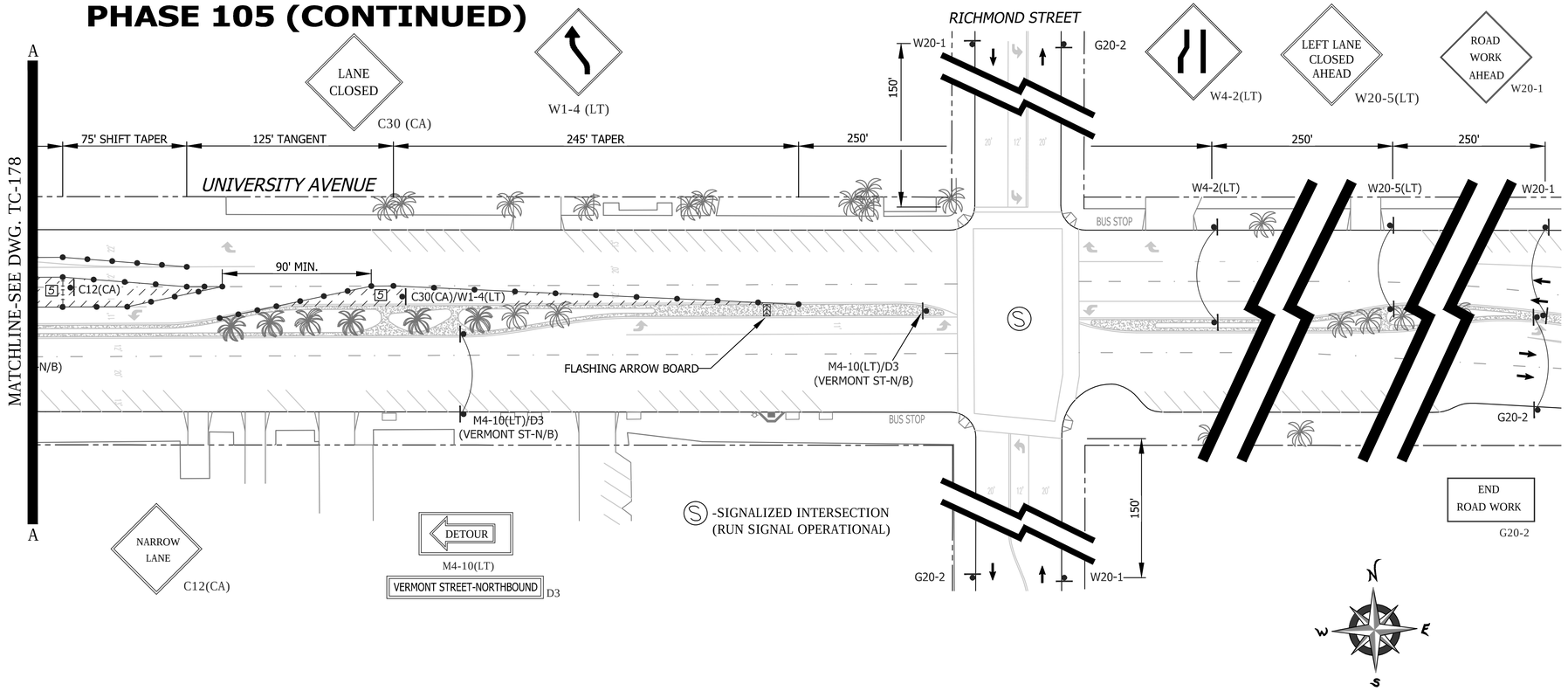
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

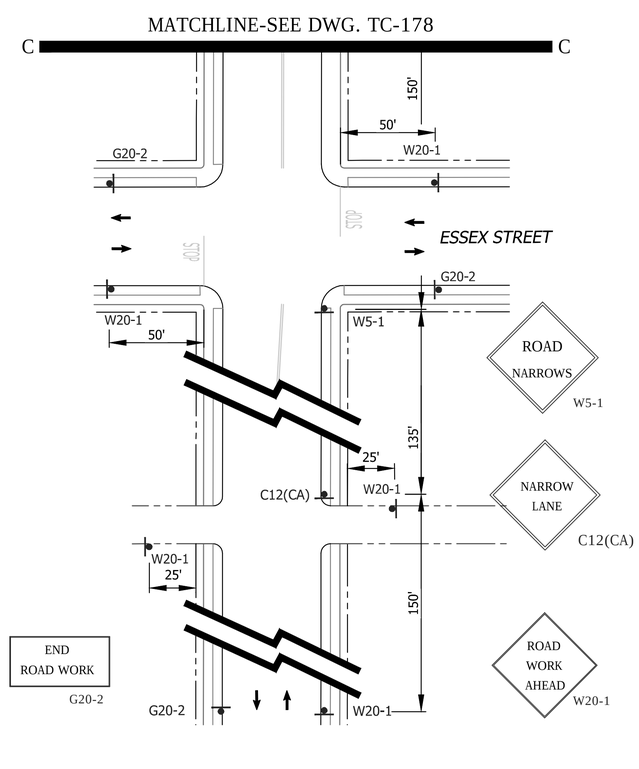
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

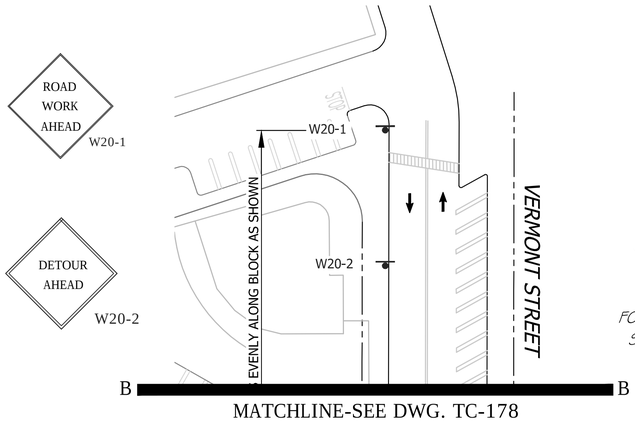
36656-T178-D

TC-178

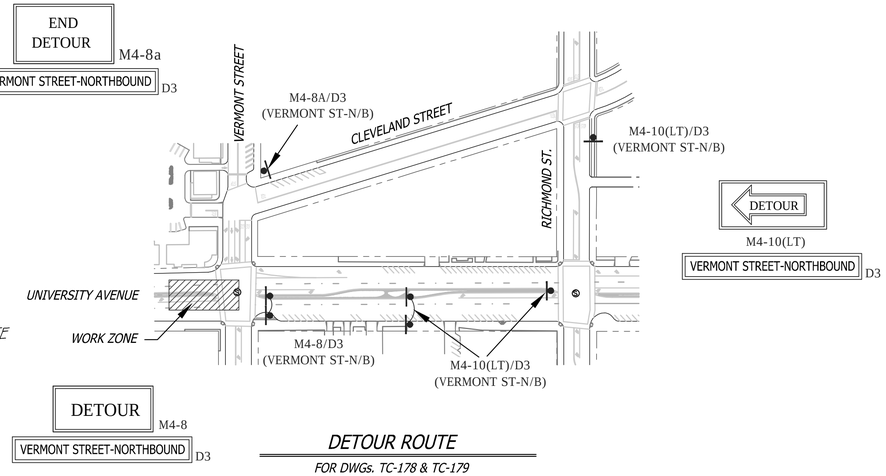
PHASE 105 (CONTINUED)







FOR DETOUR ROUTE
SCALE: NONE



DETOUR ROUTE

FOR DWGs. TC-178 & TC-179

SHEET NOTES

1. -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-179

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 105

CITY OF SAN DIEGO, CALIFORNIA
SHEET 179 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

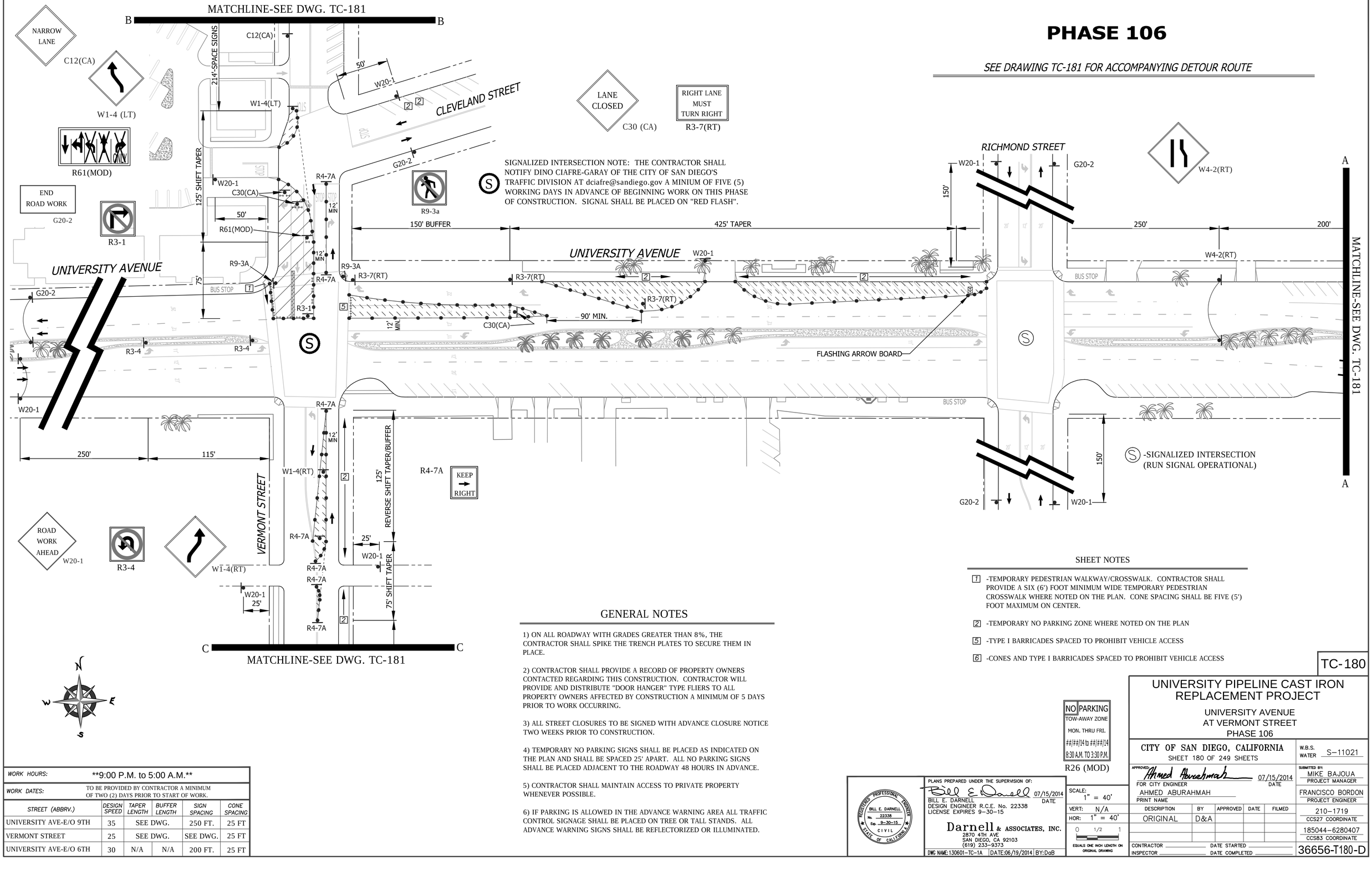
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T179-D

PHASE 106

SEE DRAWING TC-181 FOR ACCOMPANYING DETOUR ROUTE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 106

CITY OF SAN DIEGO, CALIFORNIA
SHEET 180 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

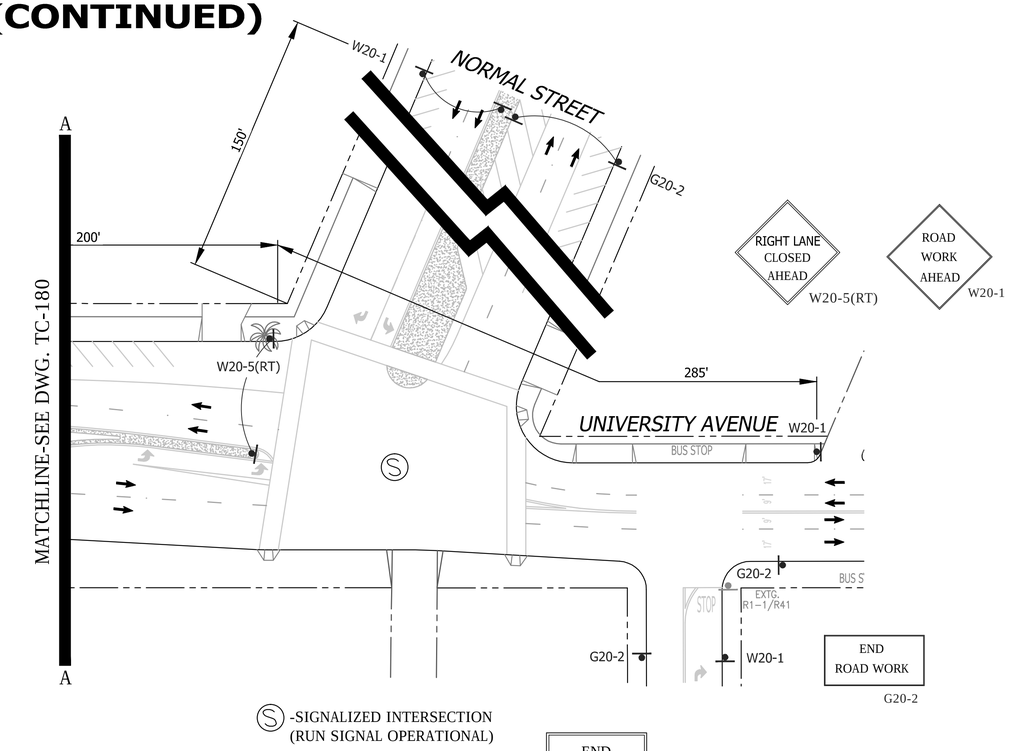
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

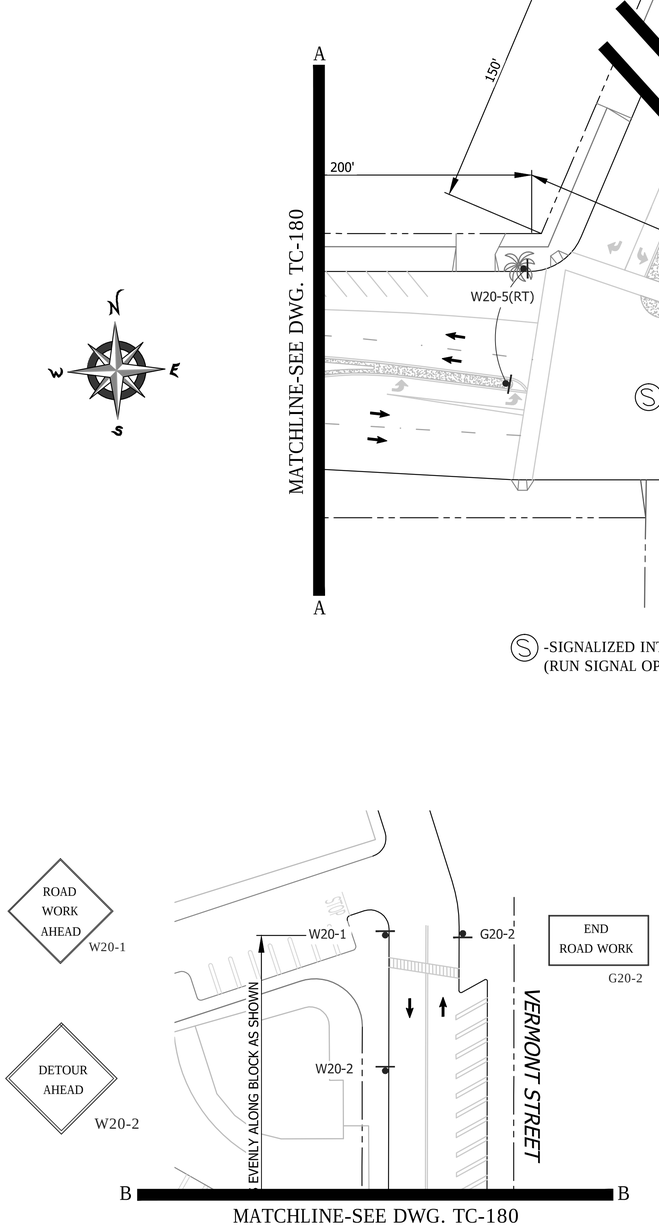
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

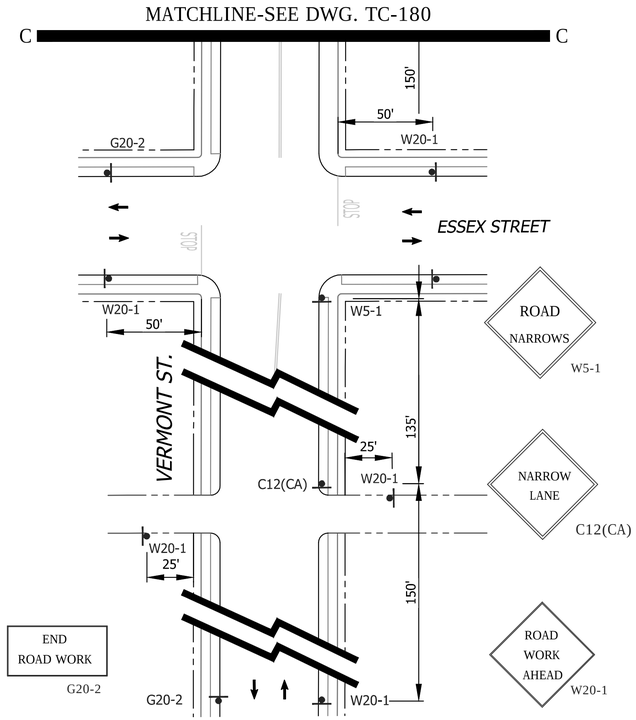
36656-T180-D

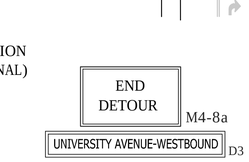
TC-180

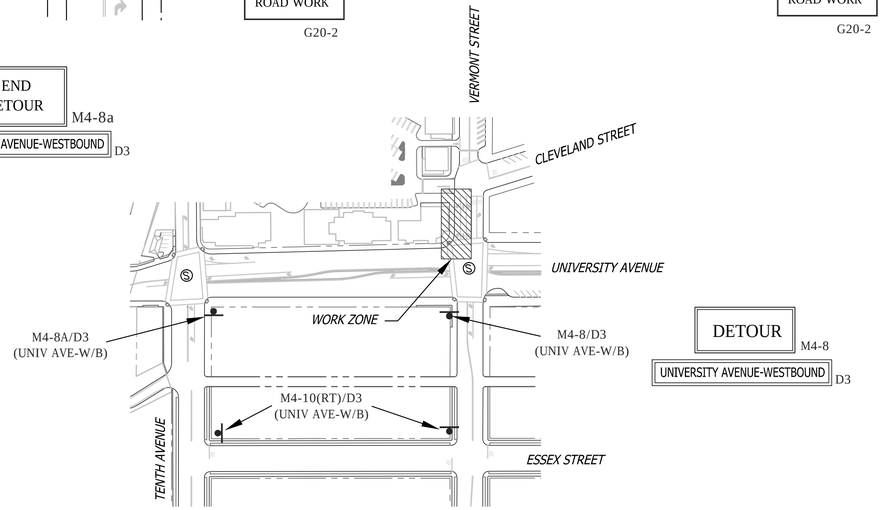
PHASE 106 (CONTINUED)











FOR DETOUR ROUTE
SCALE: NONE

DETOUR
M4-8
UNIVERSITY AVENUE-WESTBOUND
D3

DETOUR
M4-10(RT)
UNIVERSITY AVENUE-WESTBOUND
D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

DETOUR ROUTE

FOR DWGs. TC-180 & TC-181

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-181

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 106

CITY OF SAN DIEGO, CALIFORNIA
SHEET 181 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

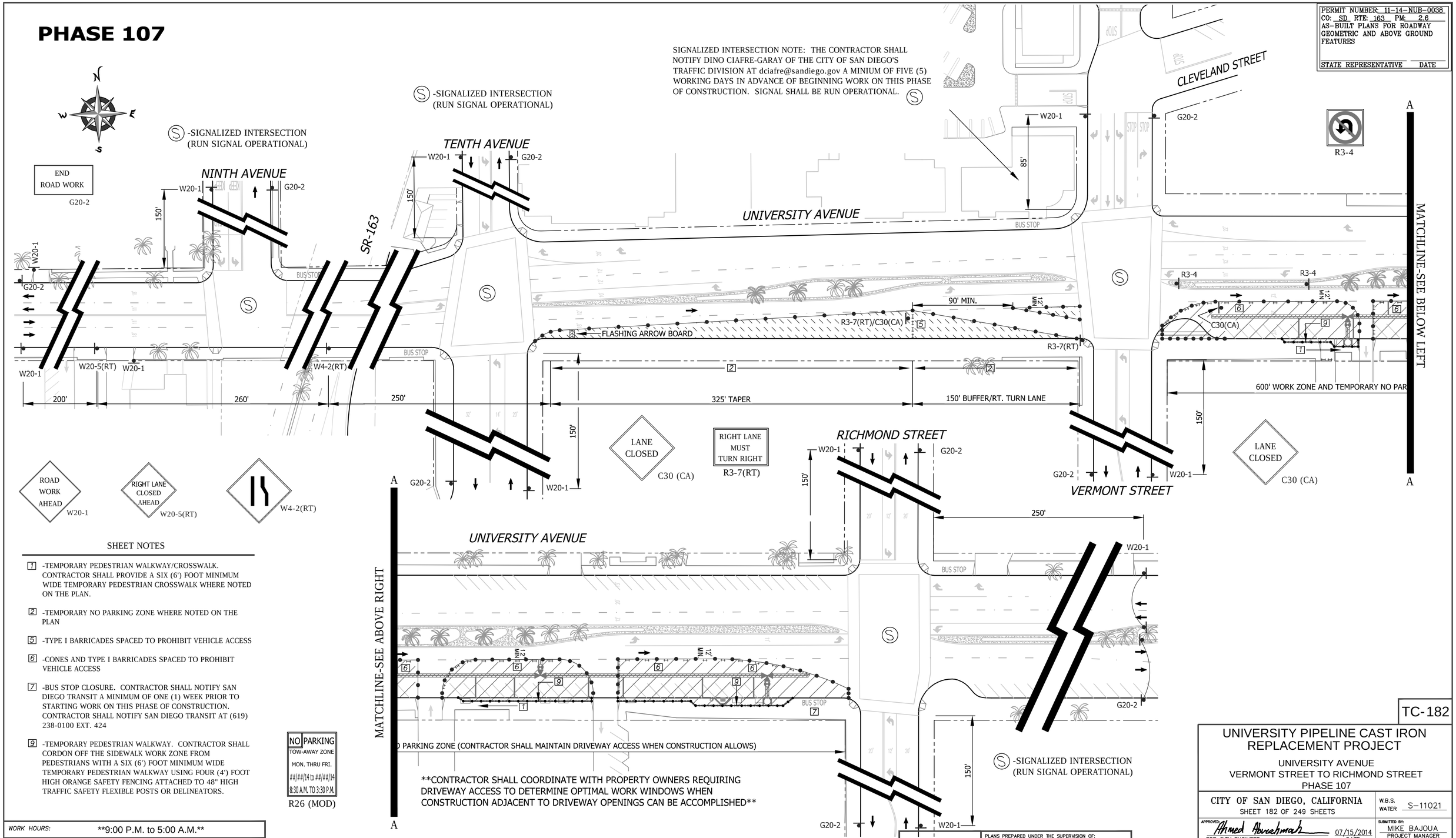
36656-T181-D

PHASE 107

PERMIT NUMBER 11-14-NUB-0038
CO: SD RTE: 163 PM: 2.6
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 08/08/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 08/07/2014 BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-182

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
VERMONT STREET TO RICHMOND STREET
PHASE 107

CITY OF SAN DIEGO, CALIFORNIA
SHEET 182 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T182-D

PHASE 108

SEE DRAWING TC-184 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-184

NARROW LANE C12(CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

END ROAD WORK G20-2

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

CLEVELAND STREET

UNIVERSITY AVENUE

RICHMOND STREET

VERMONT STREET

W20-1 G20-2 W20-5(RT) W4-2(RT) R3-5(RT) R3-7(RT) R4-7A R3-1 C30(CA) C12(CA) M4-8/D3 (RICHMOND ST-S/B) W1-4(RT) R4-7A's

240' TEMP. NO PKG. ZONE ON BOTH SIDES OF THE STREET

125' SHIFT TAPER

115' RT. TURN LANE

85' 150' 250' 400' TAPER 500' TEMPORARY NO PARKING ZONE 100' BUFFER 125' MIN. WORK ZONE 100' SHIFT TAPER 225' TEMPORARY NO PARKING ZONE

FLASHING ARROW BOARD

BUS STOP

ONLY R3-5(RT)

KEEP → RIGHT R4-7A

DETOUR M4-8 RICHMOND STREET - SOUTHBOUND D3

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

R3-1

W1-4(RT)

MATCHLINE-SEE DWG. TC-184

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

BILL E. DARNELL 07/15/2014 DATE

DESIGN ENGINEER R.C.E. No. 22338

LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'

VERT: N/A

HOR: 1" = 40'

0 1/2 1

EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-183

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 108

CITY OF SAN DIEGO, CALIFORNIA
SHEET 183 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

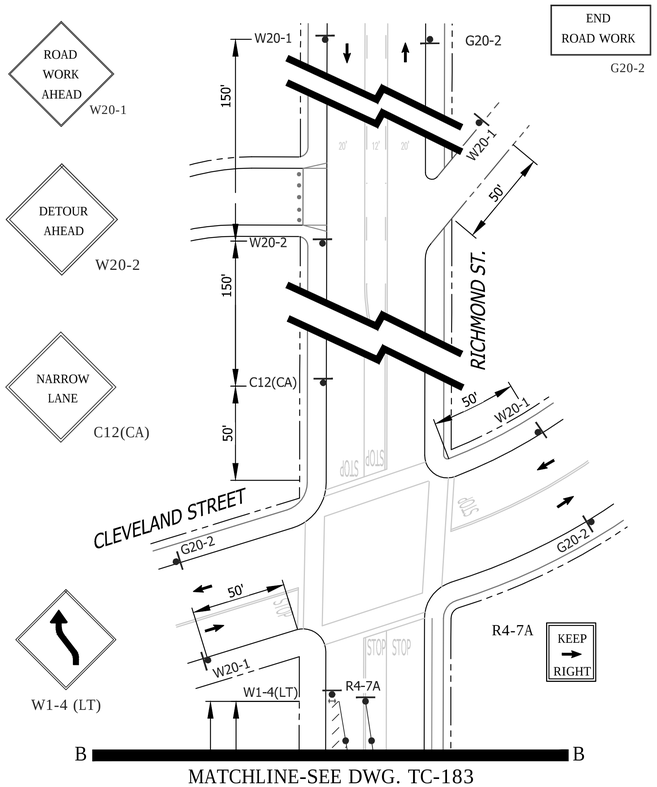
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T183-D

PHASE 108 (CONTINUED)



MATCHLINE-SEE DWG. TC-183

END ROAD WORK
G20-2

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

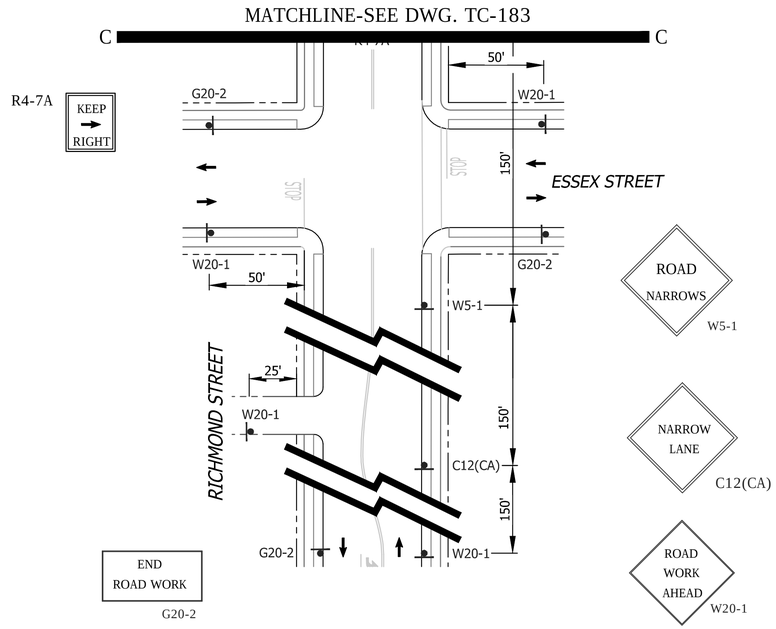
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

MATCHLINE-SEE DWG. TC-183



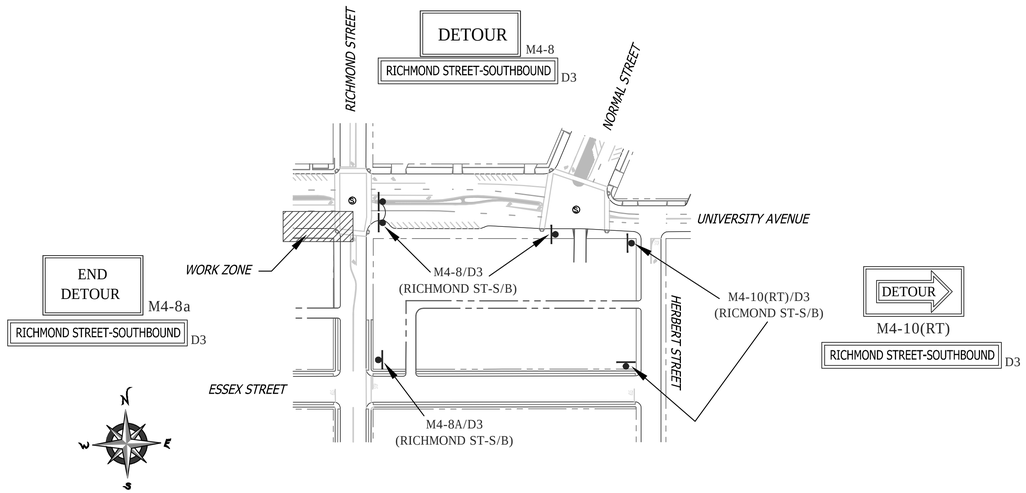
SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-183 & TC-184

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-184

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 108

CITY OF SAN DIEGO, CALIFORNIA
SHEET 184 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

210-1719
CCS27 COORDINATE

185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

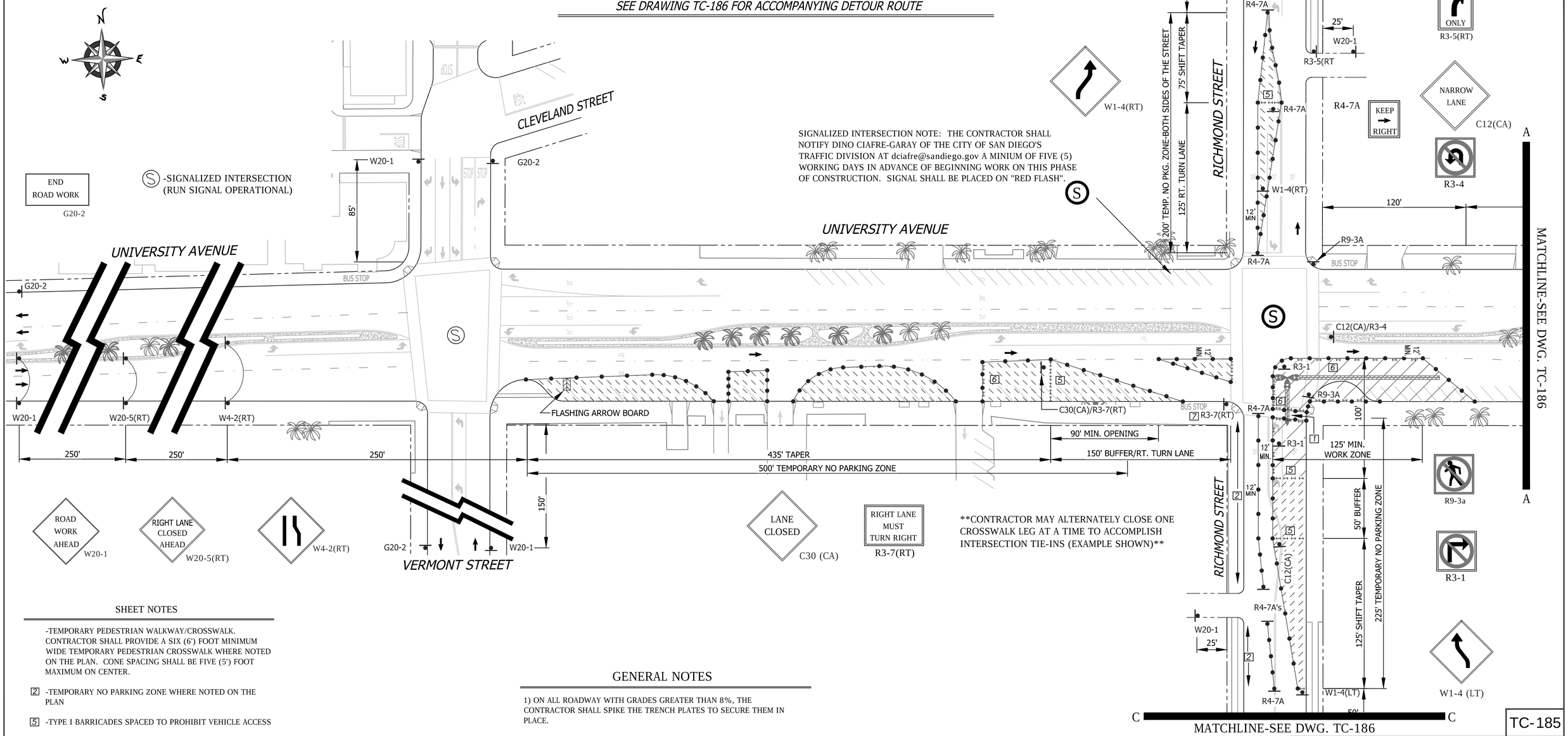
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T184-D

PHASE 109

SEE DRAWING TC-186 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-186



CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

MATCHLINE-SEE DWG. TC-186

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-185

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 109

CITY OF SAN DIEGO, CALIFORNIA
SHEET 185 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

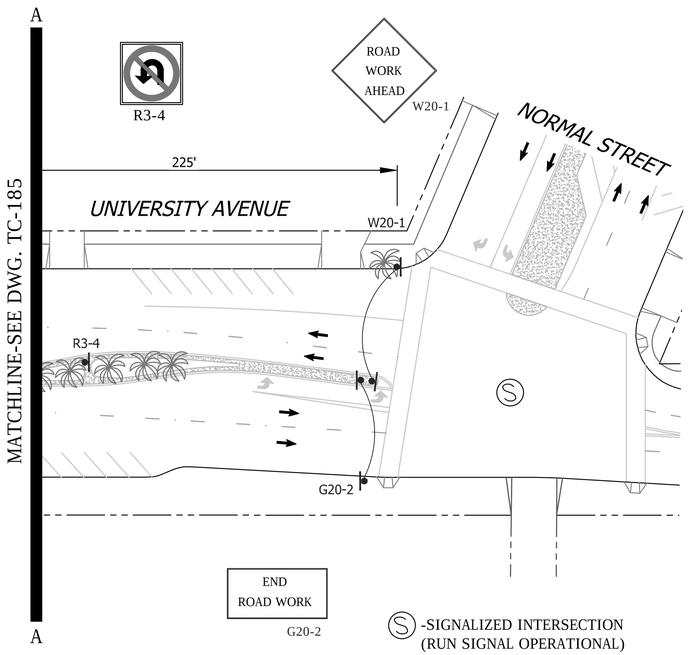
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

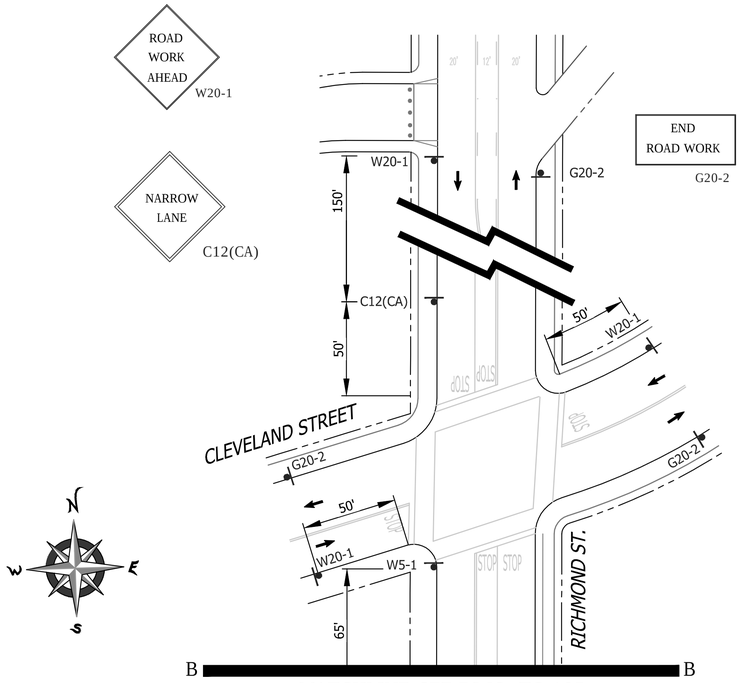
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

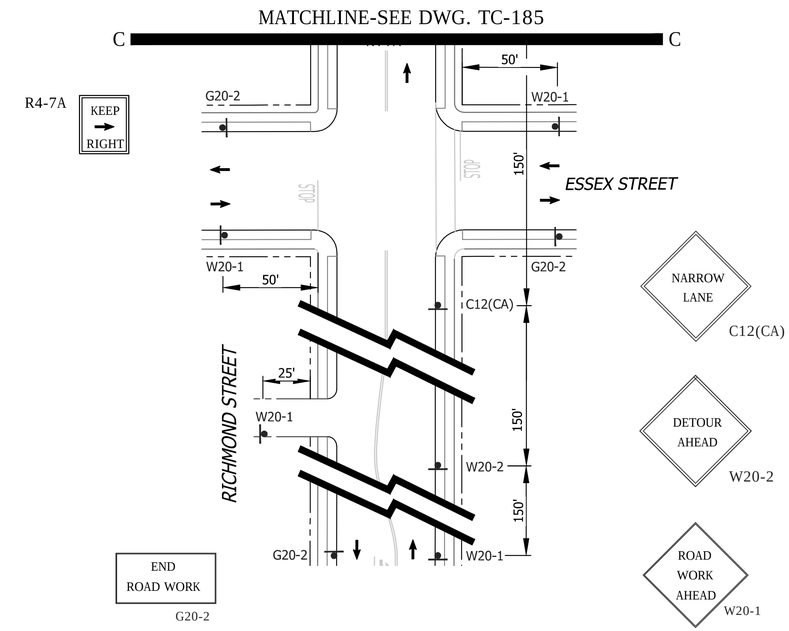
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

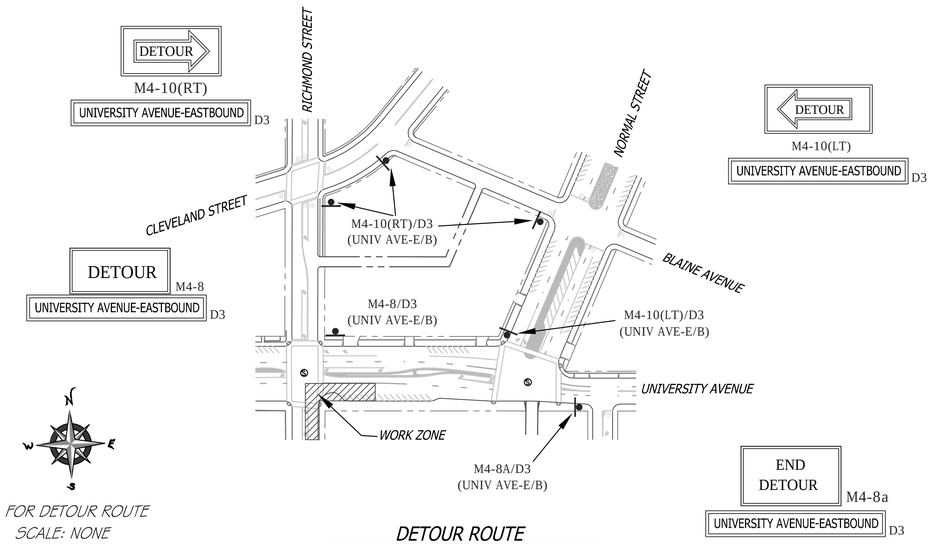
36656-T185-D

PHASE 109 (CONTINUED)









FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-185 & TC-186

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-186

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 109

CITY OF SAN DIEGO, CALIFORNIA
SHEET 186 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T186-D

PHASE 110

SEE DRAWING TC-188 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-188

NARROW LANE C12(CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

END ROAD WORK G20-2

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

CLEVELAND STREET

G20-2

W20-1

85'

STOP

UNIVERSITY AVENUE

BUS STOP

G20-2

W20-1 W20-5(LT) W4-2(LT)

250' 250' 250'

FLASHING ARROW BOARD

245' TAPER 125' TANGENT 75' SHIFT TAPER 100' BUFFER 125' MIN. WORK ZONE

175' TEMPORARY NO PARKING ZONE

150'

G20-2 W20-1

VERMONT STREET

240' TEMP. NO PKG. ZONE ON BOTH SIDES OF THE STREET

125' SHIFT TAPER

115' RT. TURN LANE

RICHMOND STREET

C12(CA)/R3-7(RT)

25' W20-1 R3-5(RT)

ONLY R3-5(RT)

R4-7A KEEP RIGHT

12' MIN.

75' BUFFER 75' SHIFT TAPER

R3-7(RT) R9-3A R4-7A

24' MIN.

C12(CA) C30(CA) W5-1 R3-18

M4-8/D3 (RICHMOND ST-N/B)

R9-3A R4-7A

W1-4(RT)

125'

100' SHIFT TAPER

225' TEMPORARY NO PARKING ZONE

R4-7A R4-7A's

W20-1 25'

DETOUR M4-8

RICHMOND STREET - NORTHBOUND D3

MATCHLINE-SEE DWG. TC-188

MATCHLINE-SEE DWG. TC-188

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

LANE CLOSED C30 (CA)

ROAD NARROWS W5-1

NARROW LANE C12(CA)

R3-18

R9-3a

W1-4(RT)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-187

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 110

CITY OF SAN DIEGO, CALIFORNIA
SHEET 187 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T187-D

PHASE 110 (CONTINUED)

SHEET NOTES

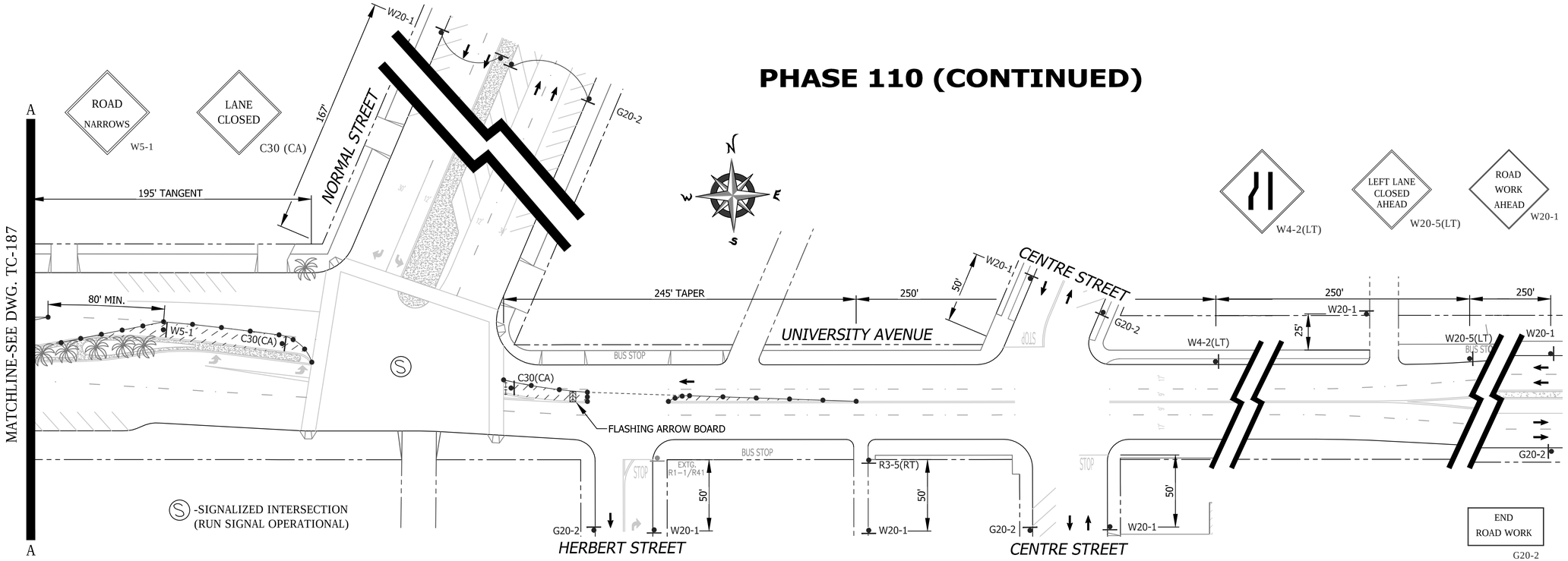
1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

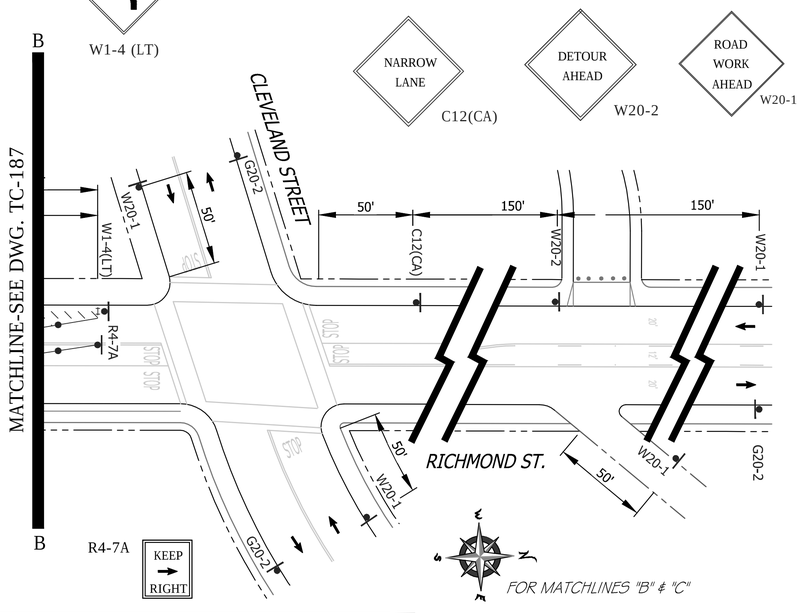
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

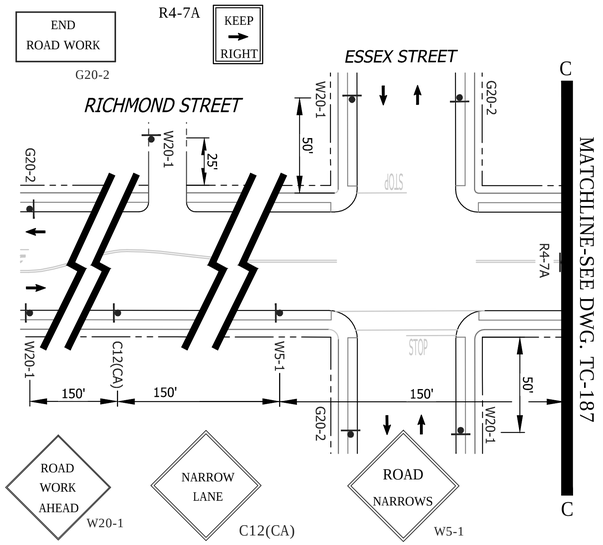
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

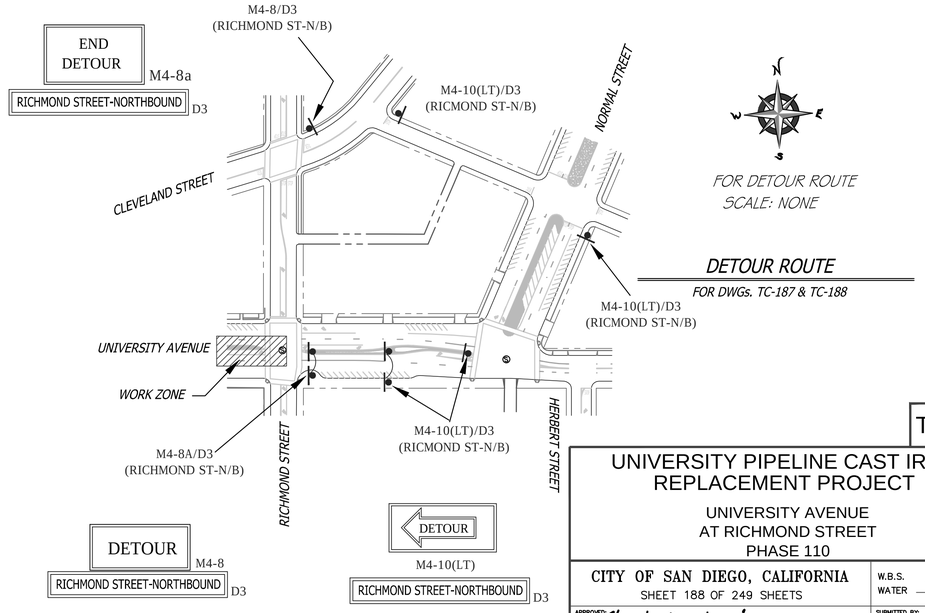
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)









WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-188

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 110

CITY OF SAN DIEGO, CALIFORNIA
SHEET 188 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

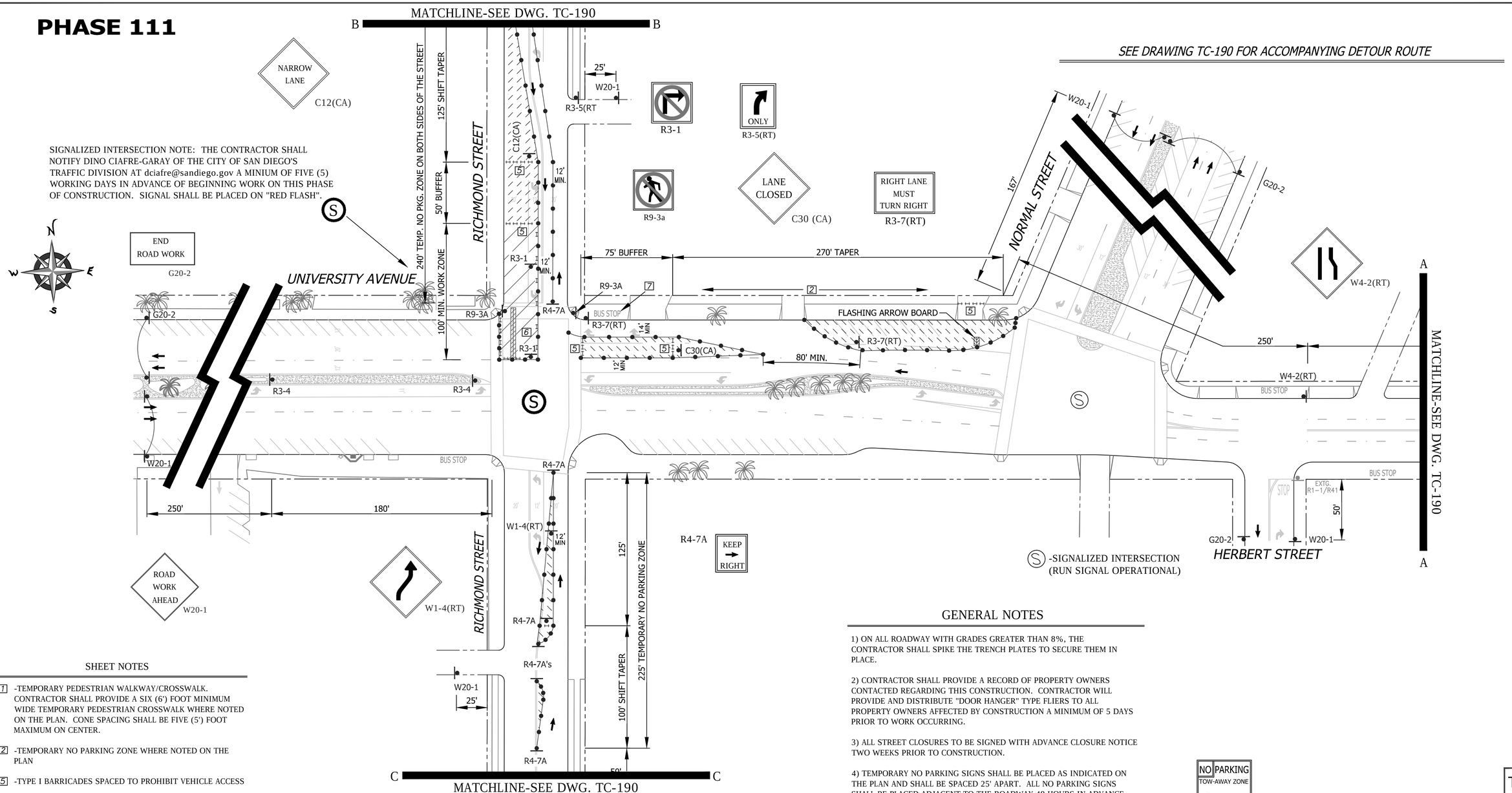
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T188-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 111



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

TC-189

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 111

CITY OF SAN DIEGO, CALIFORNIA
SHEET 189 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
36656-T189-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

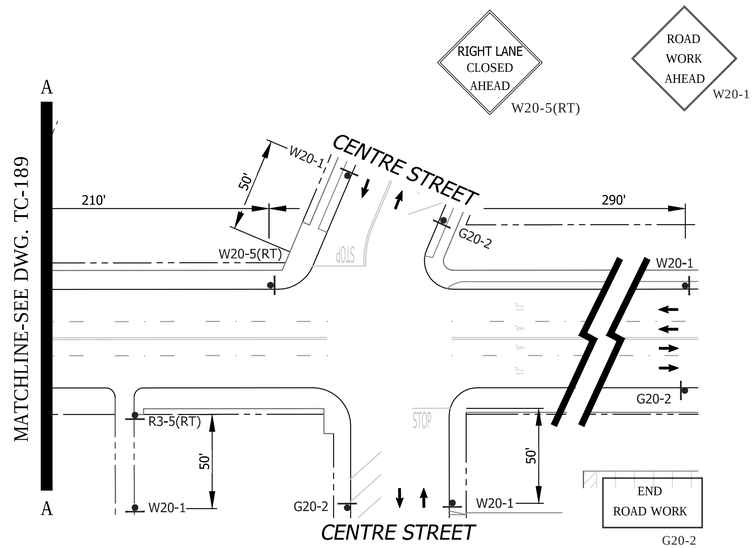
PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

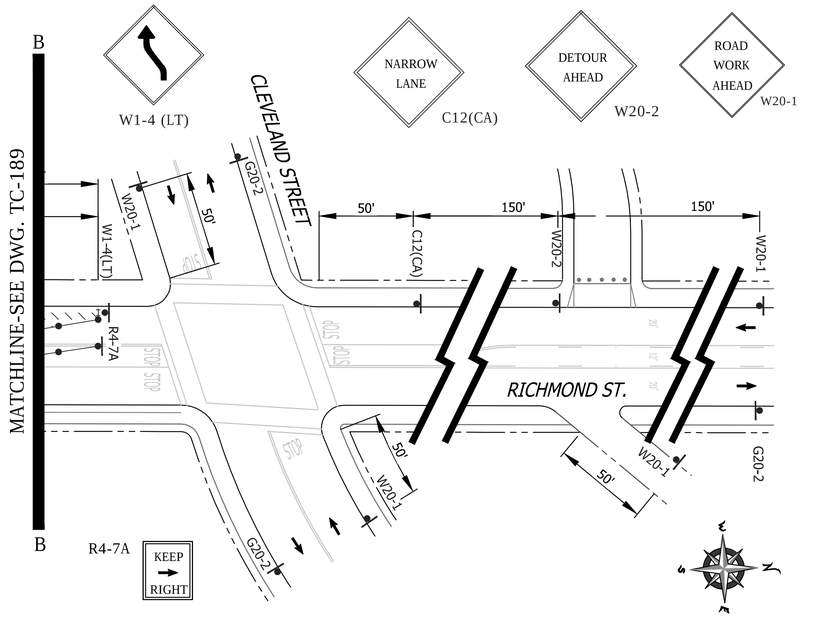
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

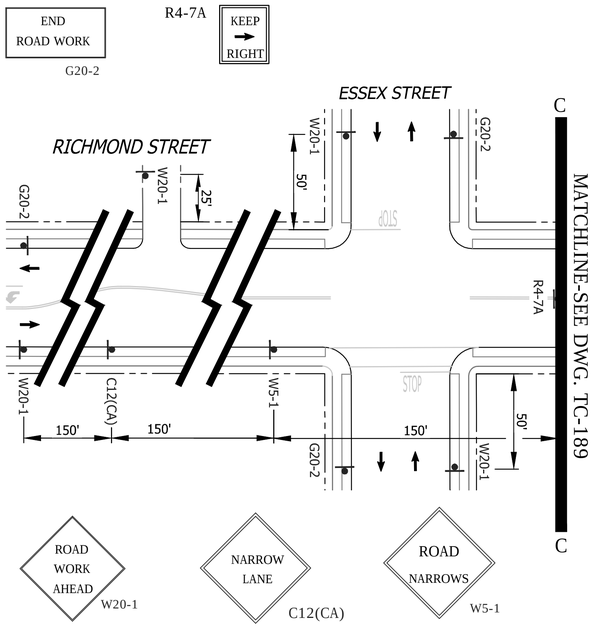
DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 111 (CONTINUED)







GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

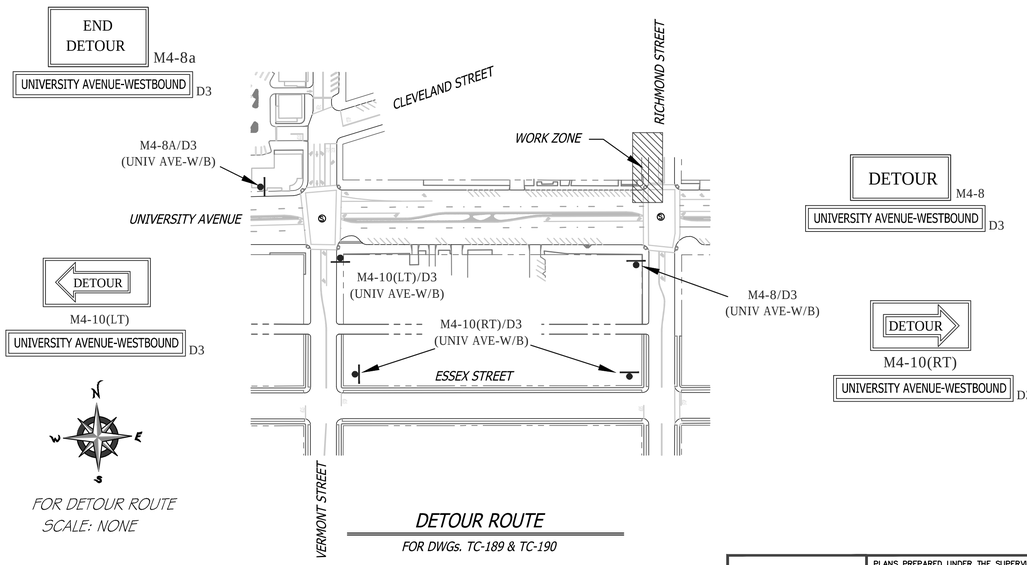
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-189 & TC-190

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-190

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 111

CITY OF SAN DIEGO, CALIFORNIA
SHEET 190 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

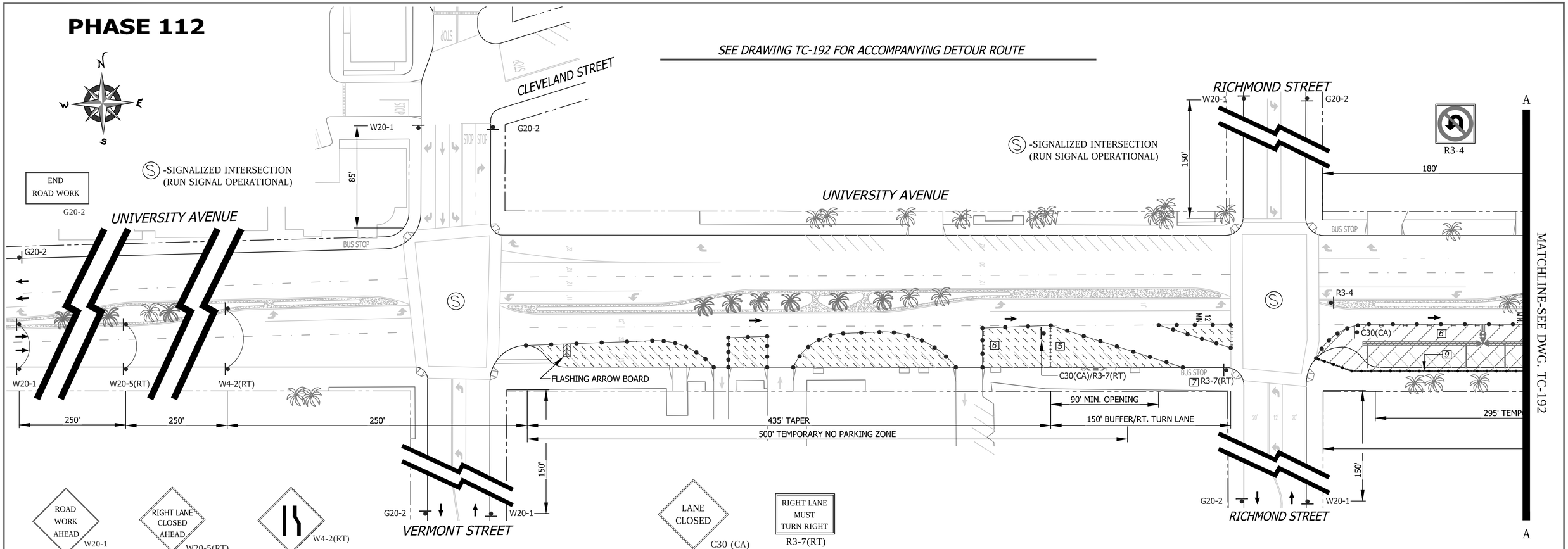
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T190-D

PHASE 112



SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-191

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
RICHMOND STREET TO NORMAL STREET
PHASE 112

CITY OF SAN DIEGO, CALIFORNIA
SHEET 191 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

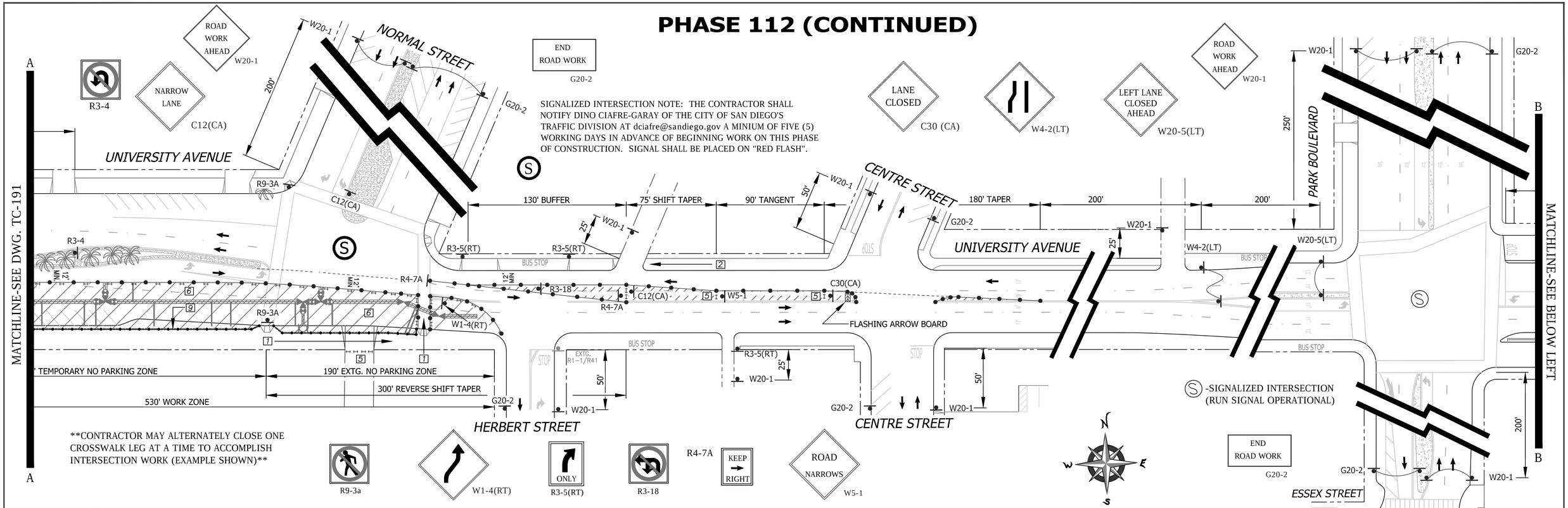
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T191-D

PHASE 112 (CONTINUED)



SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT

TC-192

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
RICHMOND STREET TO NORMAL STREET
PHASE 112

CITY OF SAN DIEGO, CALIFORNIA
SHEET 192 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T192-D

PHASE 113

SEE DRAWING TC-194 FOR ACCOMPANYING DETOUR ROUTE

END ROAD WORK
G20-2

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

DETOUR
M4-10(LT)
UNIVERSITY AVENUE - EASTBOUND
D3

LANE CLOSED
C30 (CA)

ONLY
R3-5(RT)

MATCHLINE-SEE DWG. TC-194

B

B

180' TAPER

NORMAL STREET

55'

R3-5(RT)

C30(CA)/R3-5(RT)

NARROW LANE
C12(CA)

ROAD NARROWS
W5-1

A

A

MATCHLINE-SEE DWG. TC-194

RICHMOND STREET

W20-1

G20-2

150'

M4-10(LT)/D3
(UNIV AVE-E/B)

UNIVERSITY AVENUE

G20-2

BUS STOP

2

FLASHING ARROW BOARD

Ⓢ

C30(CA)

C30(CA)

R3-18

R5-1/R5-1A

R3-18

6

7

5

12' MIN

17' MIN

130' BUFFER

75' SHIFT TAPER

90' TANGENT

25'

W20-1

R3-5(RT)

BUS STOP

2

C12(CA)

W5-1

BUS STOP

W4-2(LT)

W20-1

W20-5(LT)

250'

250'

250'

245' TAPER

100' BUFFER

130' WORK ZONE

R3-5(RT)

BUS STOP

EXTG. R1-1/R41

STOP

50'

R3-5(RT)

25'

W20-1

G20-2

W20-1

HERBERT STREET

150'

G20-2

W20-1

RICHMOND STREET

LANE CLOSED
C30 (CA)

R3-18

DO NOT ENTER
R5-1

WRONG WAY
R5-1A

ROAD WORK AHEAD
W20-1

LEFT LANE CLOSED AHEAD
W20-5(LT)

W4-2(LT)

Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	N/A	N/A	150 FT.	25 FT
NORMAL STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-193

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NORMAL STREET
PHASE 113

CITY OF SAN DIEGO, CALIFORNIA
SHEET 193 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T193-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

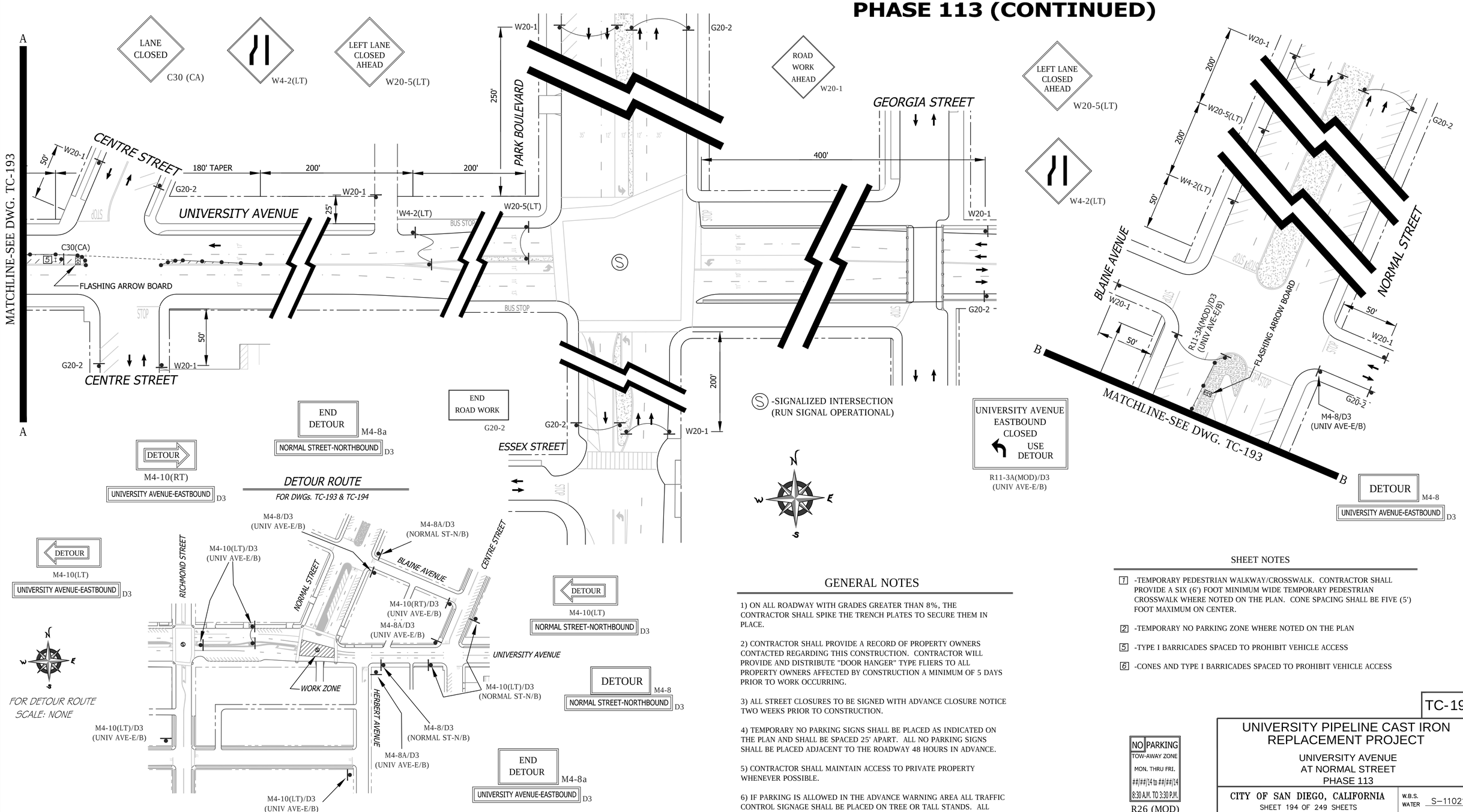
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 113 (CONTINUED)



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT
NORMAL STREET	30	SEE DWG.		200 FT.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-194

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NORMAL STREET
PHASE 113

CITY OF SAN DIEGO, CALIFORNIA
SHEET 194 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T194-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 114

N W E S

Ⓢ -SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

R9-3a

MATCHLINE-SEE BELOW LEFT

A — A

100' BUFFER

NORMAL STREET

150' WORK ZONE

RICHMOND STREET

END ROAD WORK
G20-2

R9-3A

16' MIN

12' MIN

C30(CA)

ONLY
R3-5(RT)

LANE CLOSED
C30 (CA)

RIGHT LANE MUST TURN RIGHT
R3-7(RT)

W4-2(RT)

RIGHT LANE CLOSED AHEAD
W20-5(RT)

ROAD WORK AHEAD
W20-1

BUS STOP

G20-2

R3-4

W20-1

150' BUFFER/RT. TURN LANE

180' TAPER

R3-7(RT)

R3-5(RT)

R3-7(RT)/C30(CA)

25'

W20-1

50'

CENTRE STREET

UNIVERSITY AVENUE

80' MIN.

FLASHING ARROW BOARD

200'

175'

200'

PARK BLVD.

W4-2(RT)

W20-5(RT)

250'

70'

R3-5(RT)

EXTG. R1-1/R41

50'

W20-1

HERBERT STREET

W4-2(LT)

LEFT LANE CLOSED AHEAD
W20-5(LT)

CENTRE STREET

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2

ROAD WORK AHEAD
W20-1

R3-4

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

MATCHLINE-SEE ABOVE RIGHT

90' SHIFT TAPER

90' TANGENT

180' TAPER

200'

200'

200'

W20-1

G20-2

50'

NORMAL STREET

W4-2(LT)

W20-5(LT)

W20-1

W1-4(RT)

30'

C12(CA)

W5-1

C30(CA)

FLASHING ARROW BOARD

G20-2

BLAINE AVENUE

LANE CLOSED
C30 (CA)

END ROAD WORK
G20-2

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

NARROW LANE
C12(CA)

W1-4(RT)

ROAD NARROWS
W5-1

ROAD NARROWS
W5-1

FOR MATCHLINE "A"

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

TC-195

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NORMAL STREET
PHASE 114

CITY OF SAN DIEGO, CALIFORNIA
SHEET 195 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

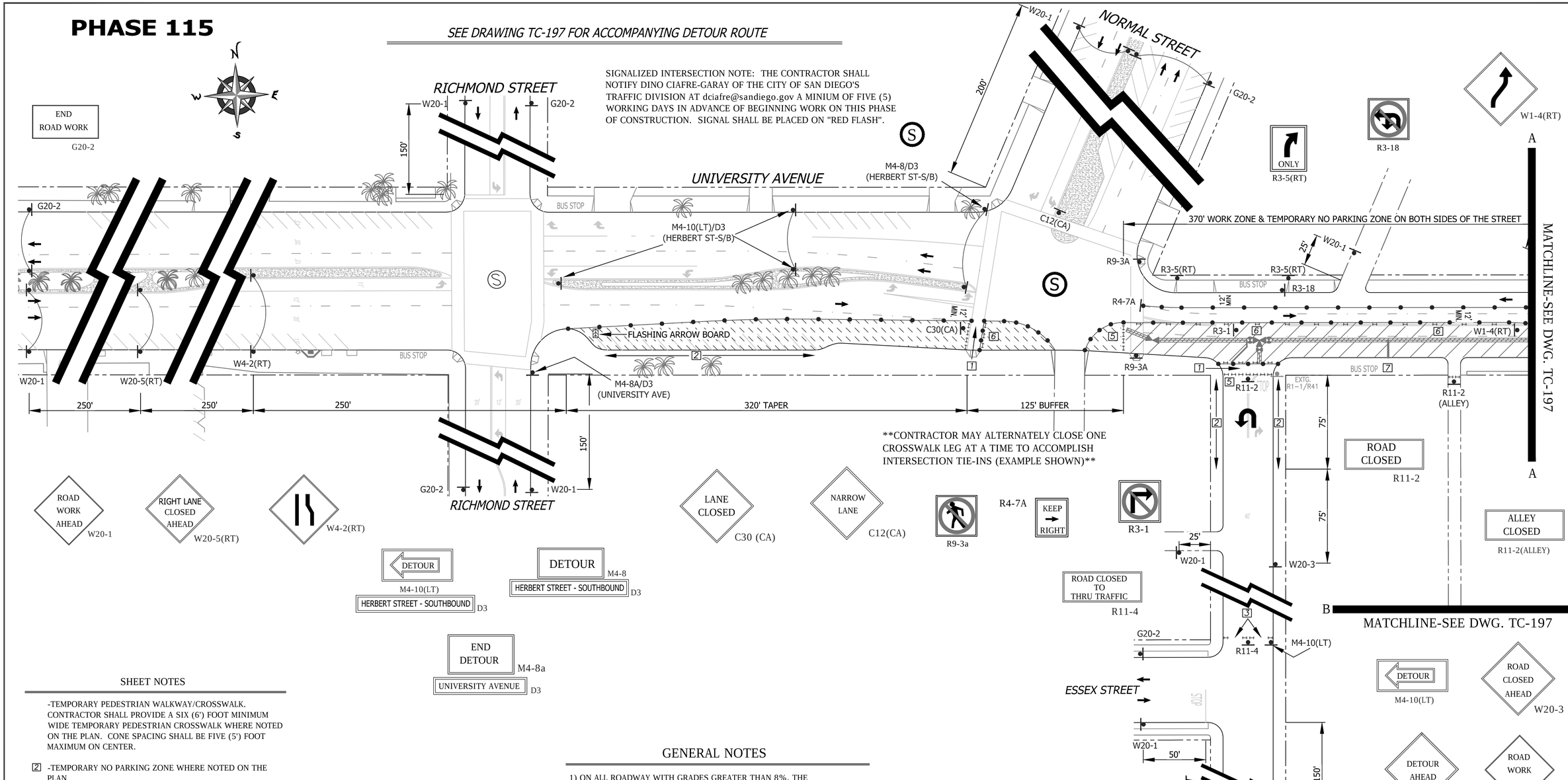
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T195-D

PHASE 115

SEE DRAWING TC-197 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-196

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
NORMAL STREET TO CENTRE STREET
PHASE 115

CITY OF SAN DIEGO, CALIFORNIA
SHEET 196 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

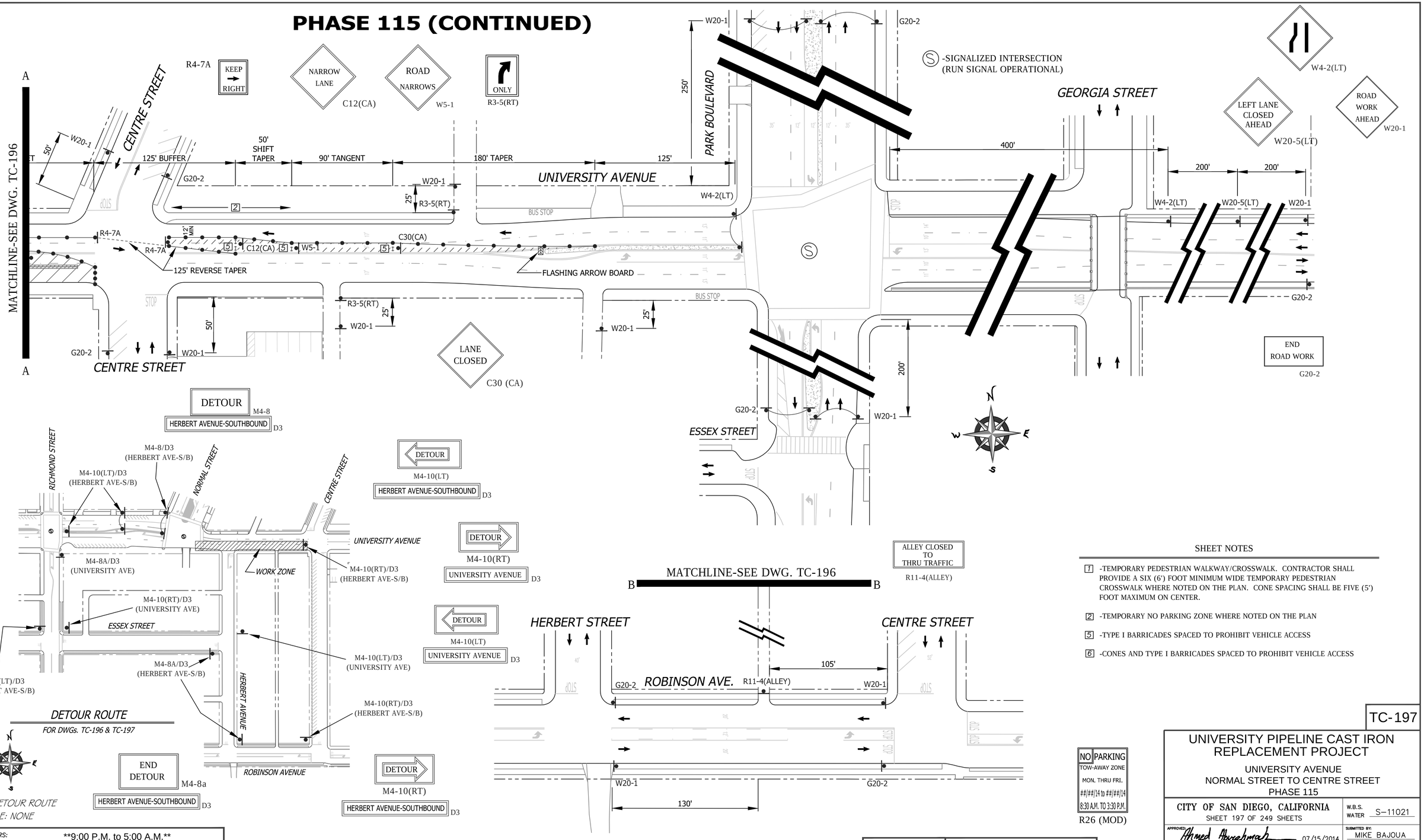
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

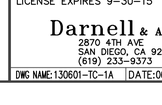
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T196-D

PHASE 115 (CONTINUED)





NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-197

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
NORMAL STREET TO CENTRE STREET
PHASE 115

CITY OF SAN DIEGO, CALIFORNIA
SHEET 197 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

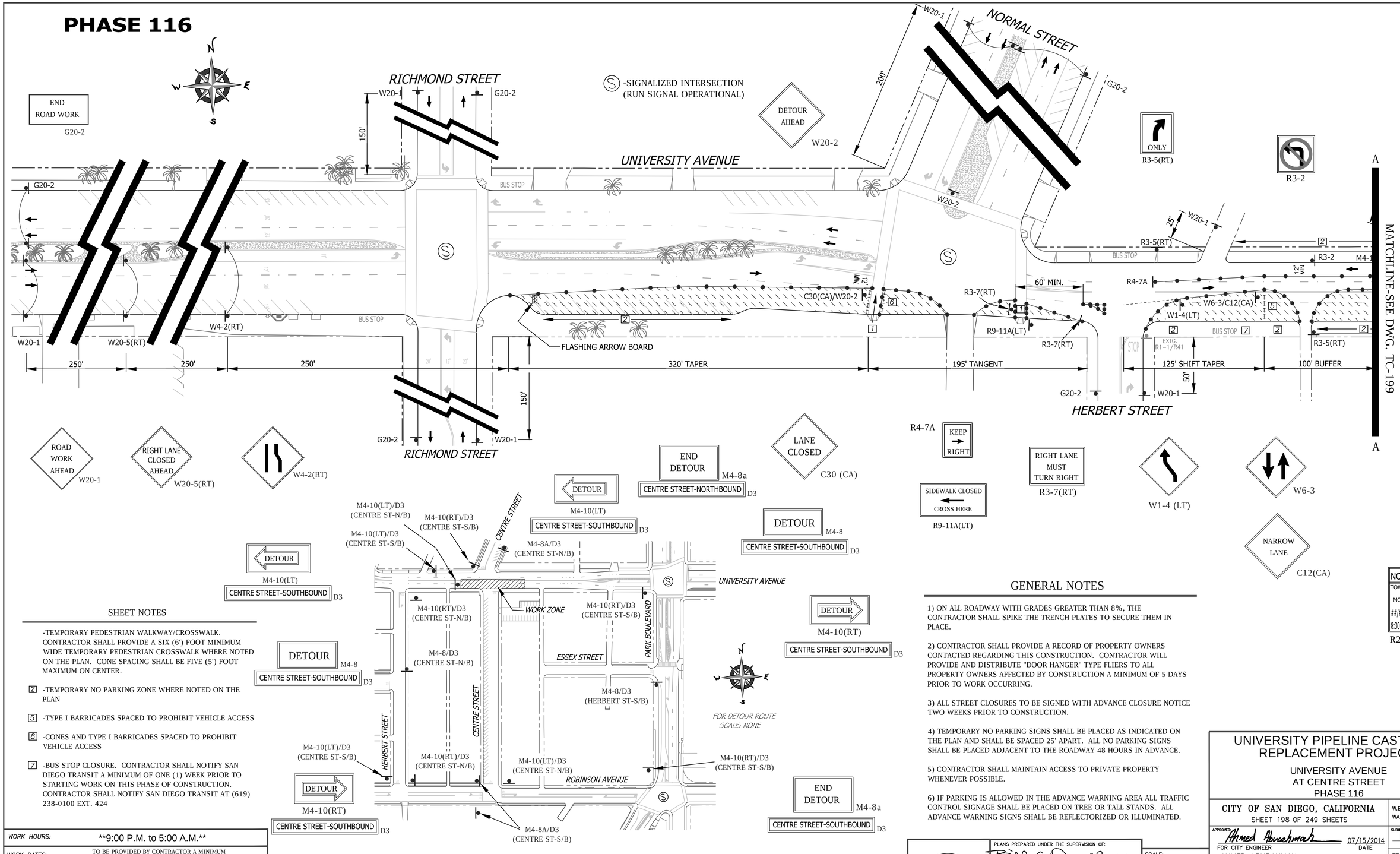
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T197-D

PHASE 116



ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

R4-7A KEEP RIGHT

RIGHT LANE MUST TURN RIGHT R3-7(RT)

W1-4 (LT)

W6-3

SIDEWALK CLOSED CROSS HERE R9-11A(LT)

NARROW LANE C12(CA)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

DETOUR M4-10(LT) CENTRE STREET-SOUTHBOUND D3

END DETOUR M4-8a CENTRE STREET-NORTHBOUND D3

DETOUR M4-10(LT) CENTRE STREET-SOUTHBOUND D3

DETOUR M4-8 CENTRE STREET-SOUTHBOUND D3

DETOUR M4-10(RT) CENTRE STREET-SOUTHBOUND D3

DETOUR M4-8 CENTRE STREET-SOUTHBOUND D3

DETOUR M4-10(RT) CENTRE STREET-SOUTHBOUND D3

END DETOUR M4-8a CENTRE STREET-SOUTHBOUND D3

FOR DETOUR ROUTE SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-198 & TC-199

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-198

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT CENTRE STREET
PHASE 116

CITY OF SAN DIEGO, CALIFORNIA
SHEET 198 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

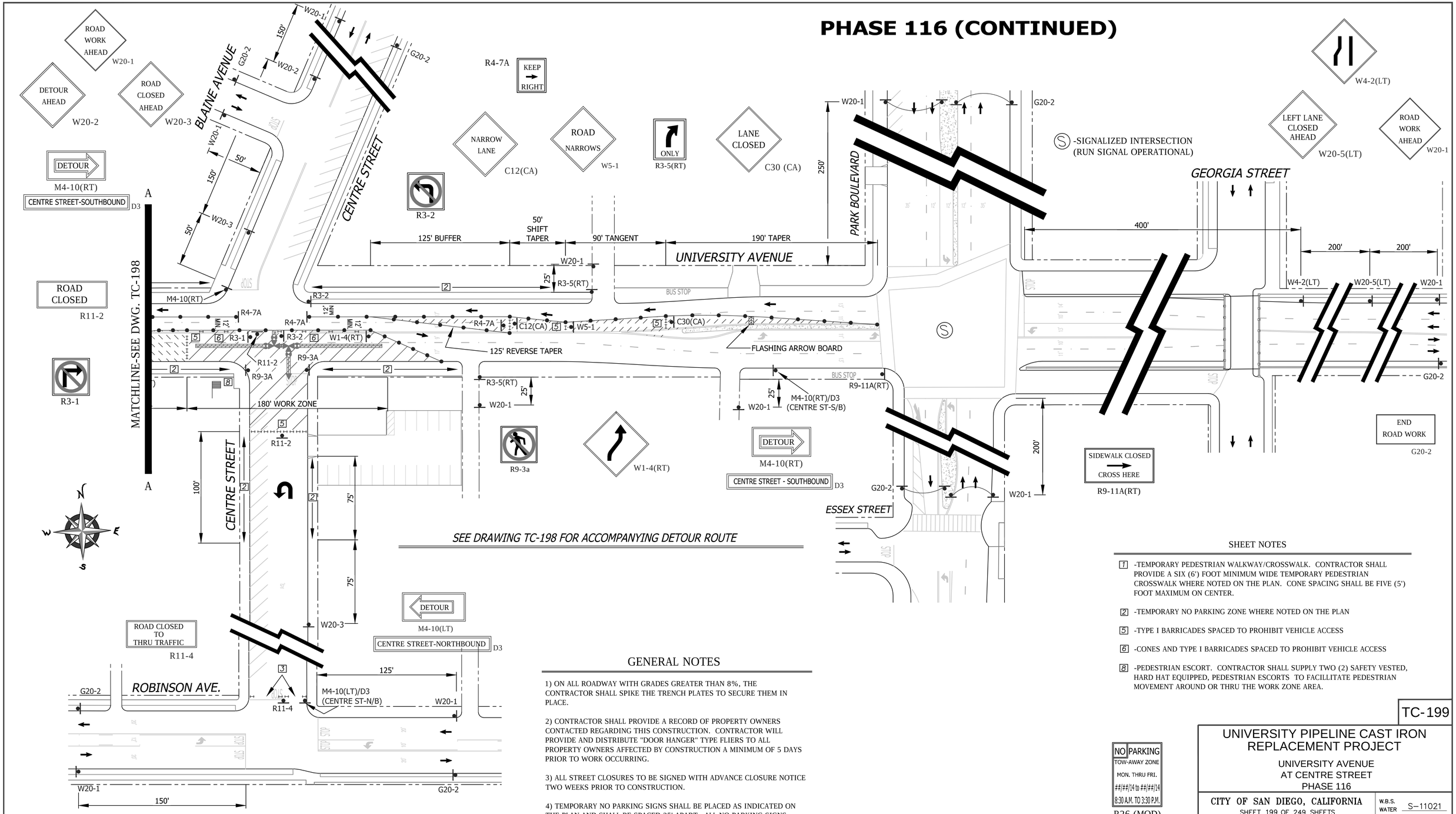
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T198-D

PHASE 116 (CONTINUED)



SEE DRAWING TC-198 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[8] -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
CENTRE STREET	25	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-199

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT CENTRE STREET
PHASE 116

CITY OF SAN DIEGO, CALIFORNIA
SHEET 199 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

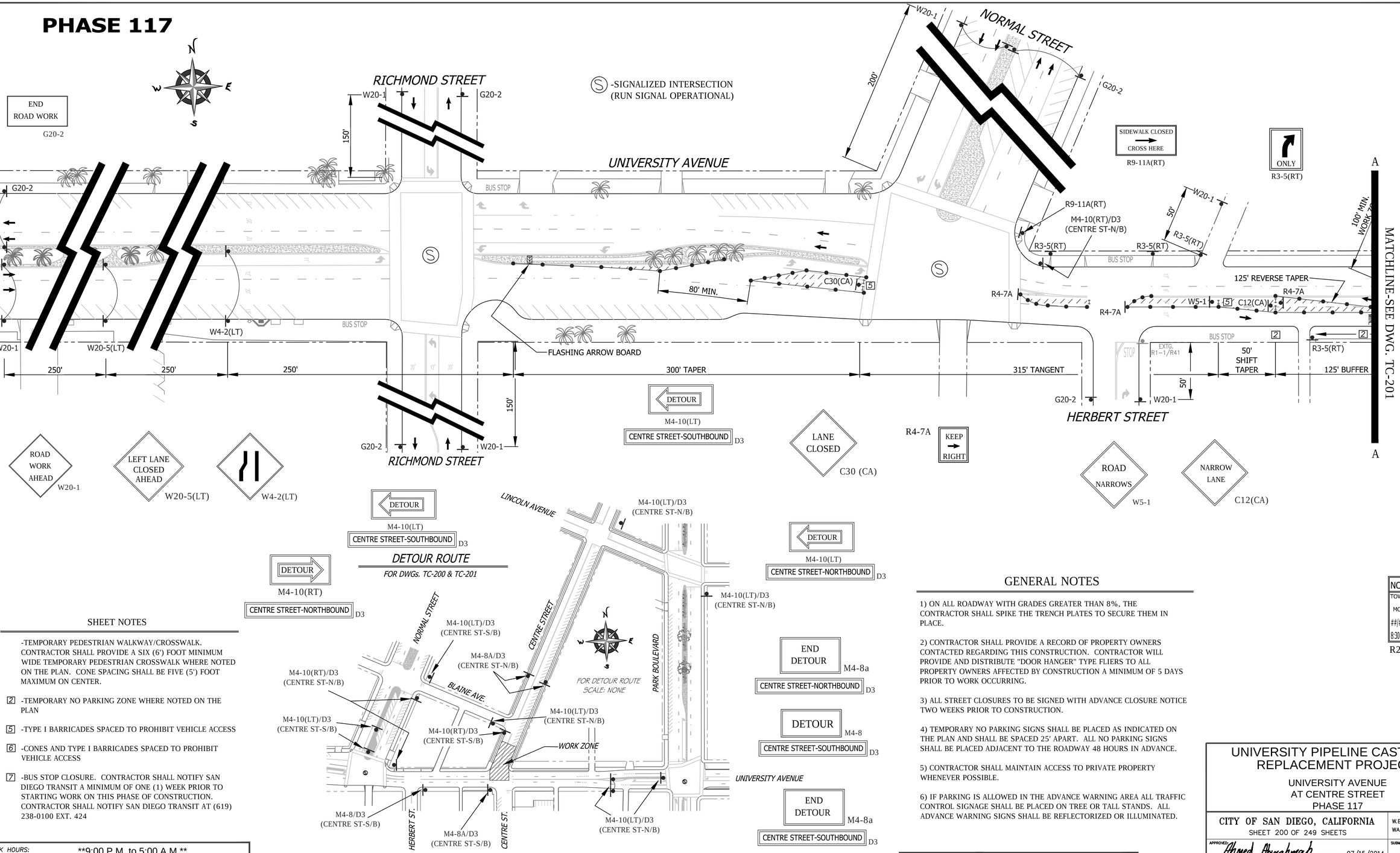
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T199-D

PHASE 117



SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-200

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT CENTRE STREET
PHASE 117

CITY OF SAN DIEGO, CALIFORNIA
SHEET 200 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

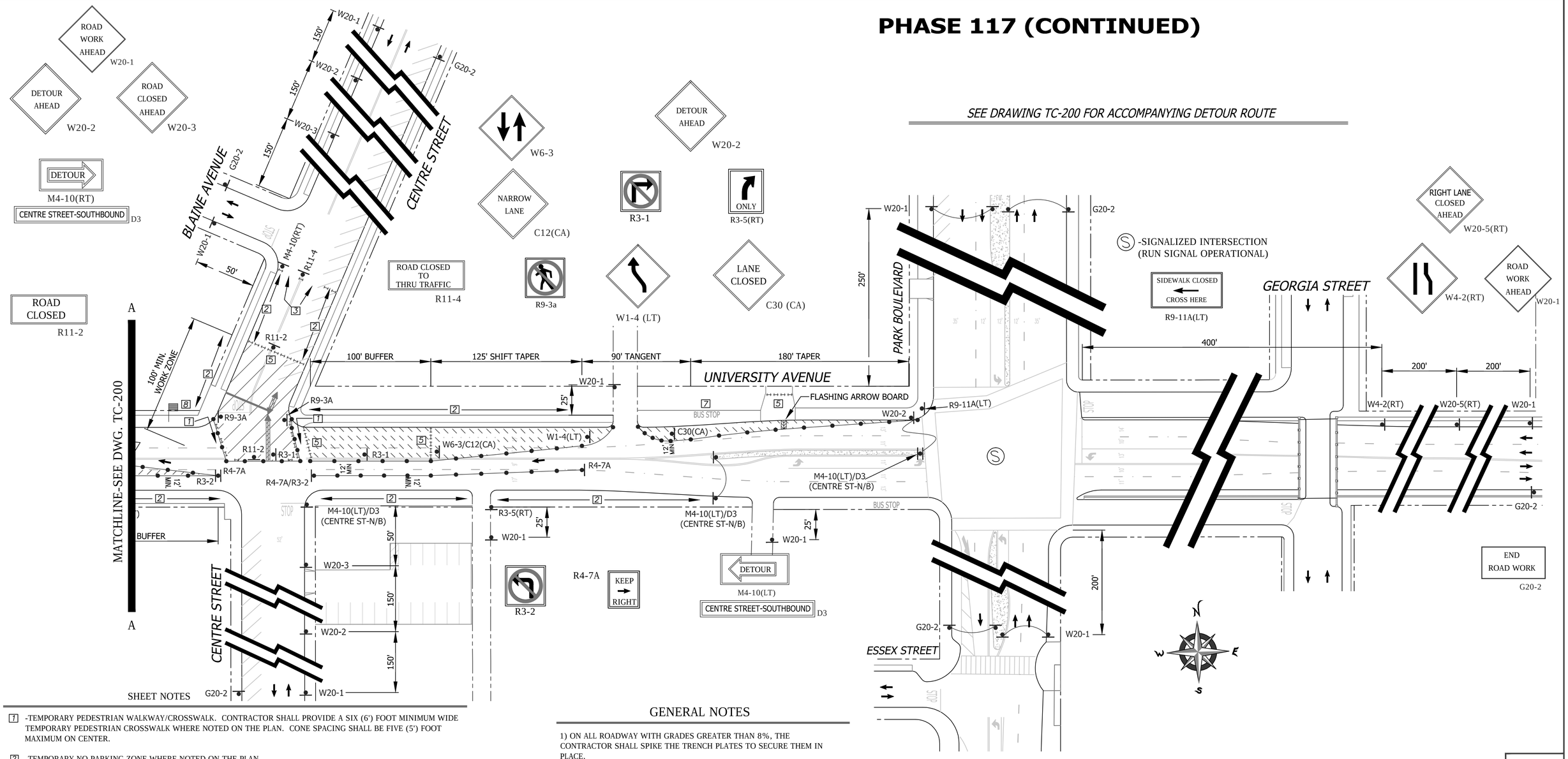
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T200-D

PHASE 117 (CONTINUED)

SEE DRAWING TC-200 FOR ACCOMPANYING DETOUR ROUTE



SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY ONE (1) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
CENTRE STREET	25	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-201

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT CENTRE STREET
PHASE 117

CITY OF SAN DIEGO, CALIFORNIA
SHEET 201 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

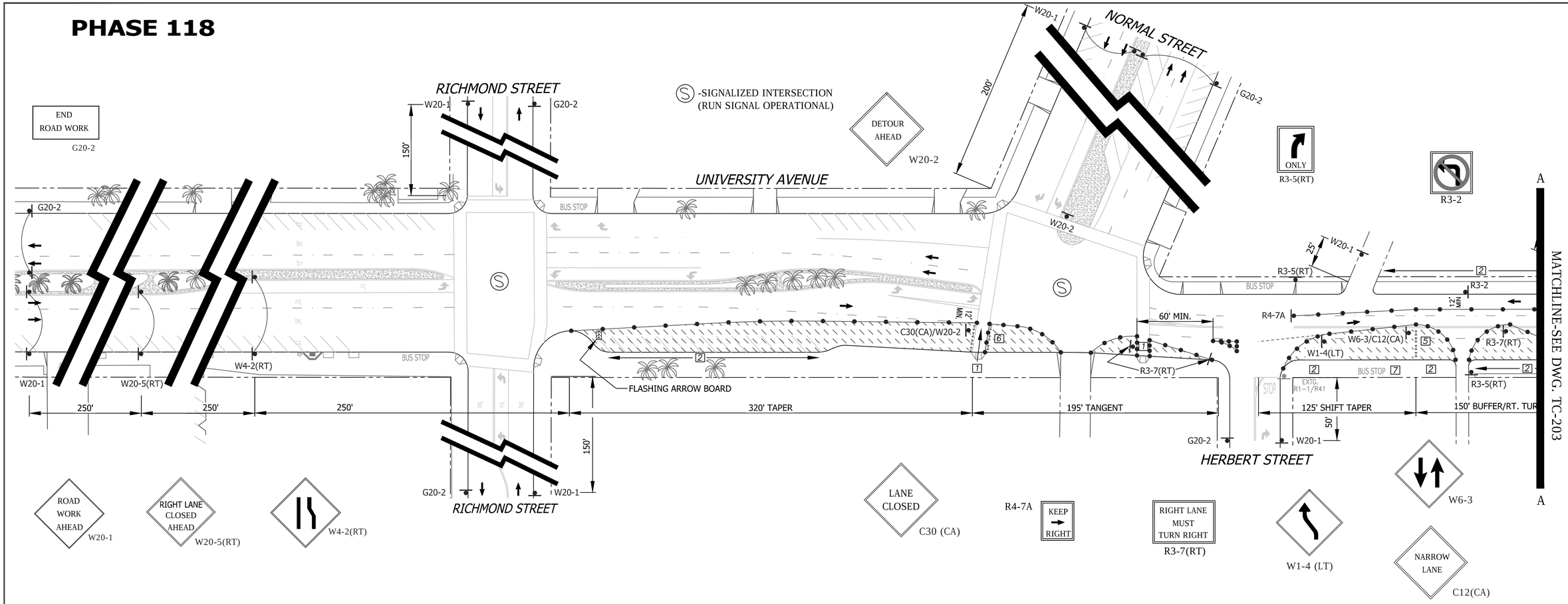
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T201-D

PHASE 118



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

N
W E
S

TC-202

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 118

CITY OF SAN DIEGO, CALIFORNIA
SHEET 202 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME — DATE

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T202-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

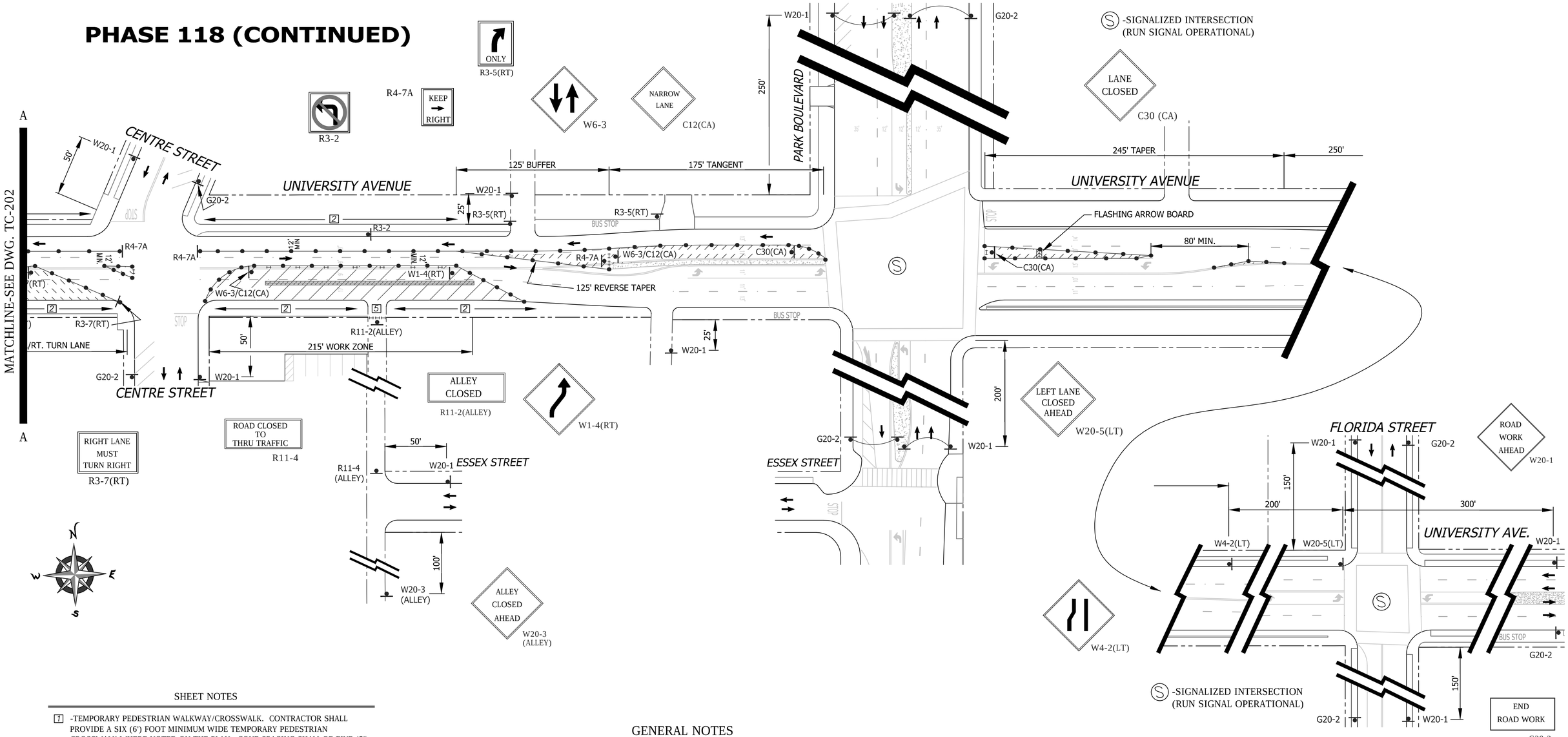
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 118 (CONTINUED)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-203

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 118

CITY OF SAN DIEGO, CALIFORNIA
SHEET 203 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

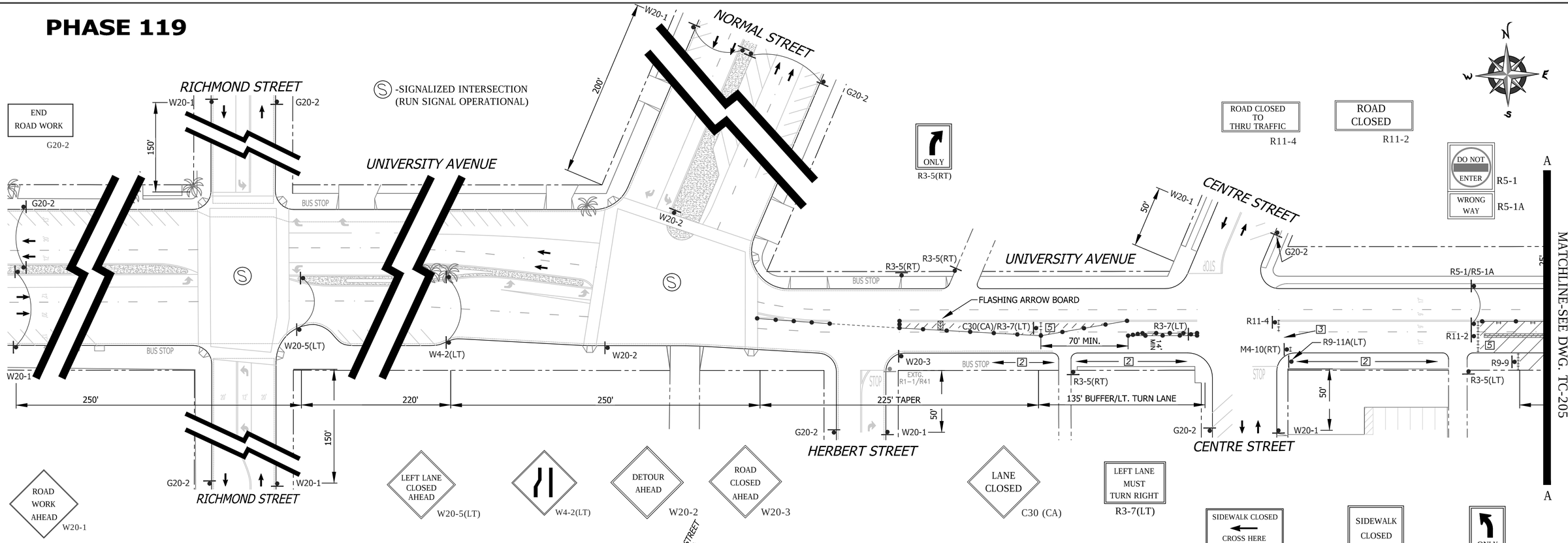
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T203-D

PHASE 119



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

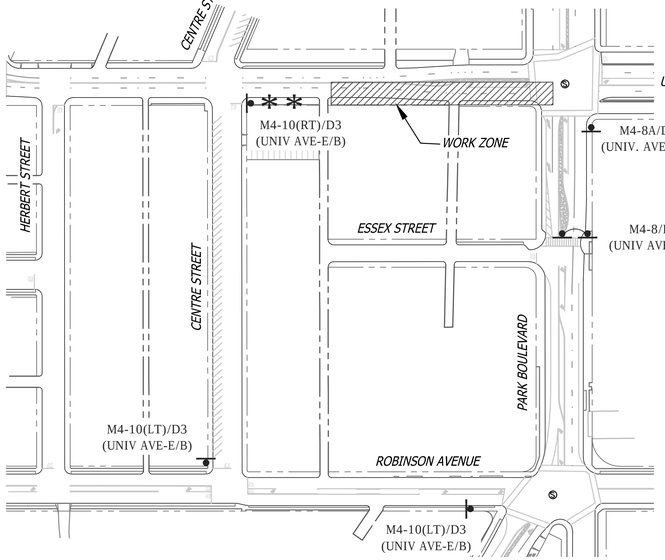
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT



DETOUR ROUTE

FOR DWG. TC-204 & TC-205

DETOUR
M4-10(RT)
UNIVERSITY AVENUE-EASTBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

FOR DETOUR ROUTE SCALE: NONE

DETOUR
M4-10(LT)
UNIVERSITY AVENUE-EASTBOUND D3

END DETOUR
M4-8a
UNIVERSITY AVENUE-EASTBOUND D3

DETOUR
M4-8
UNIVERSITY AVENUE-EASTBOUND D3

60" MIN.

UNIVERSITY AVE EASTBOUND CLOSED
SUN-THUR
##:## P.M. TO ##:## A.M.
##/##/2014 TO ##/##/2014

** -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-204

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 119

CITY OF SAN DIEGO, CALIFORNIA
SHEET 204 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

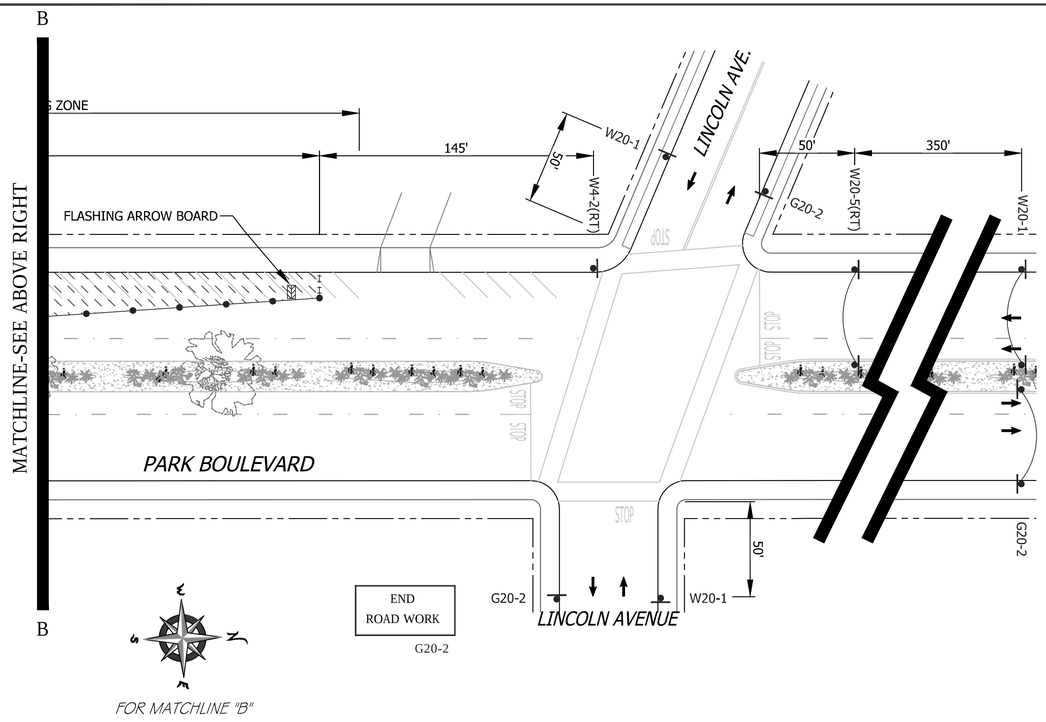
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

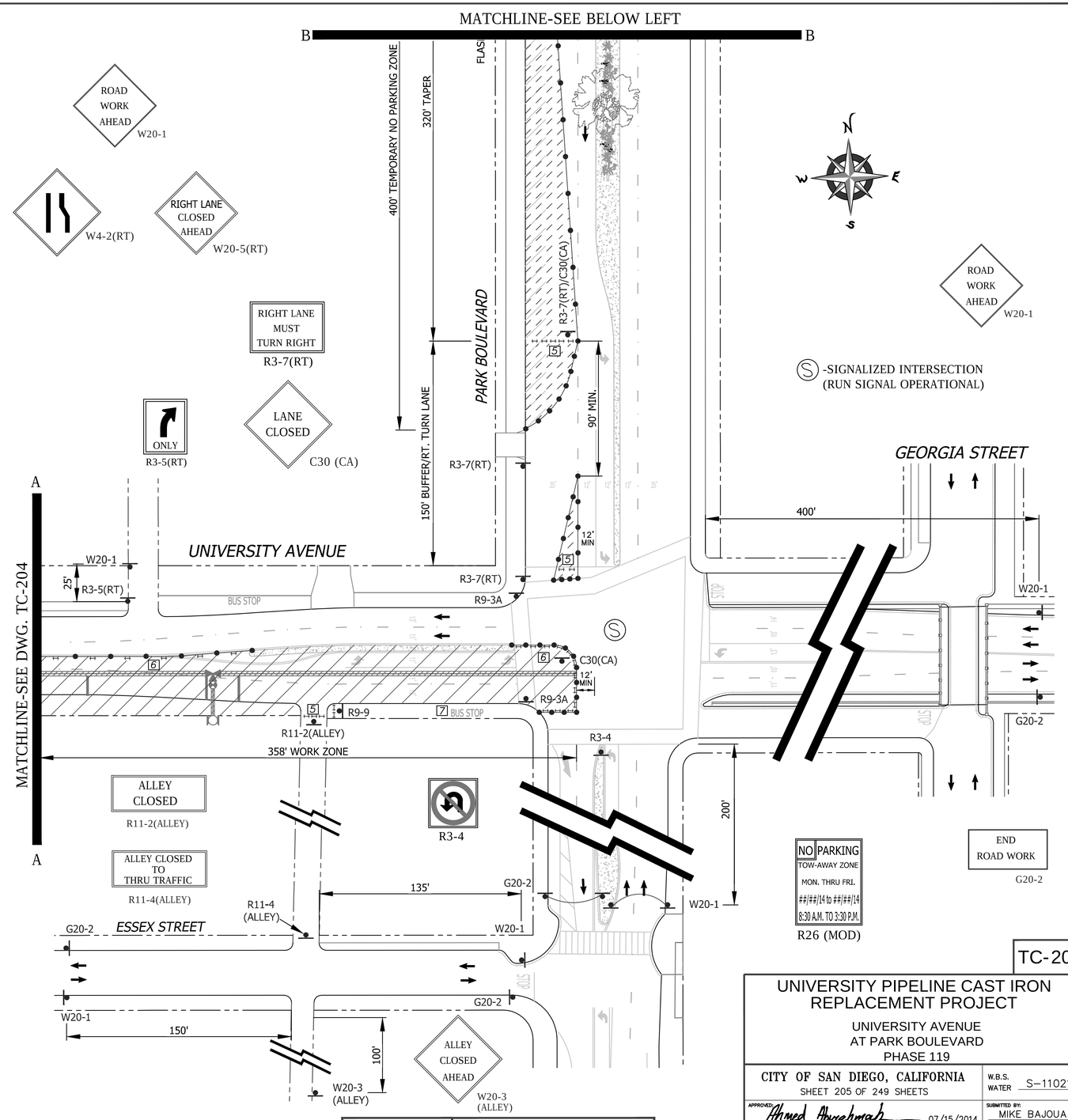
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T204-D





PHASE 119 (CONTINUED)

SEE DRAWING TC-204 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	40	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-205

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 119

CITY OF SAN DIEGO, CALIFORNIA
SHEET 205 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

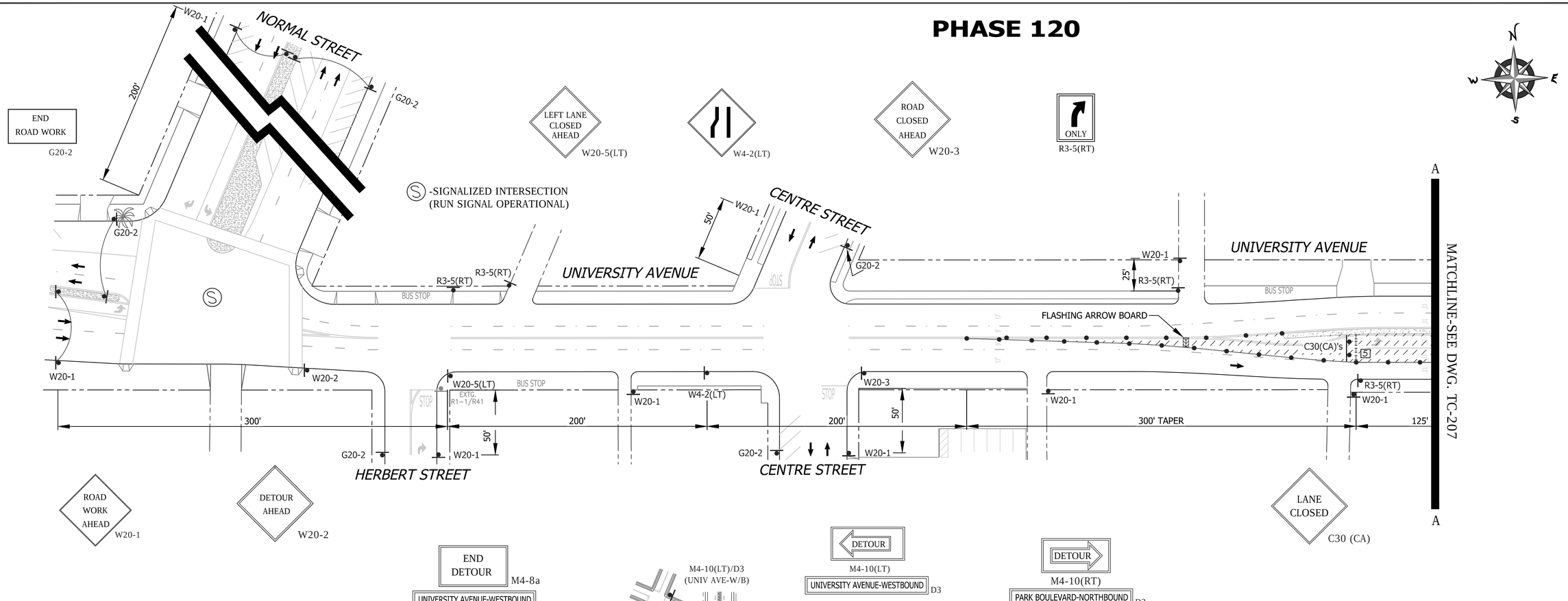
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

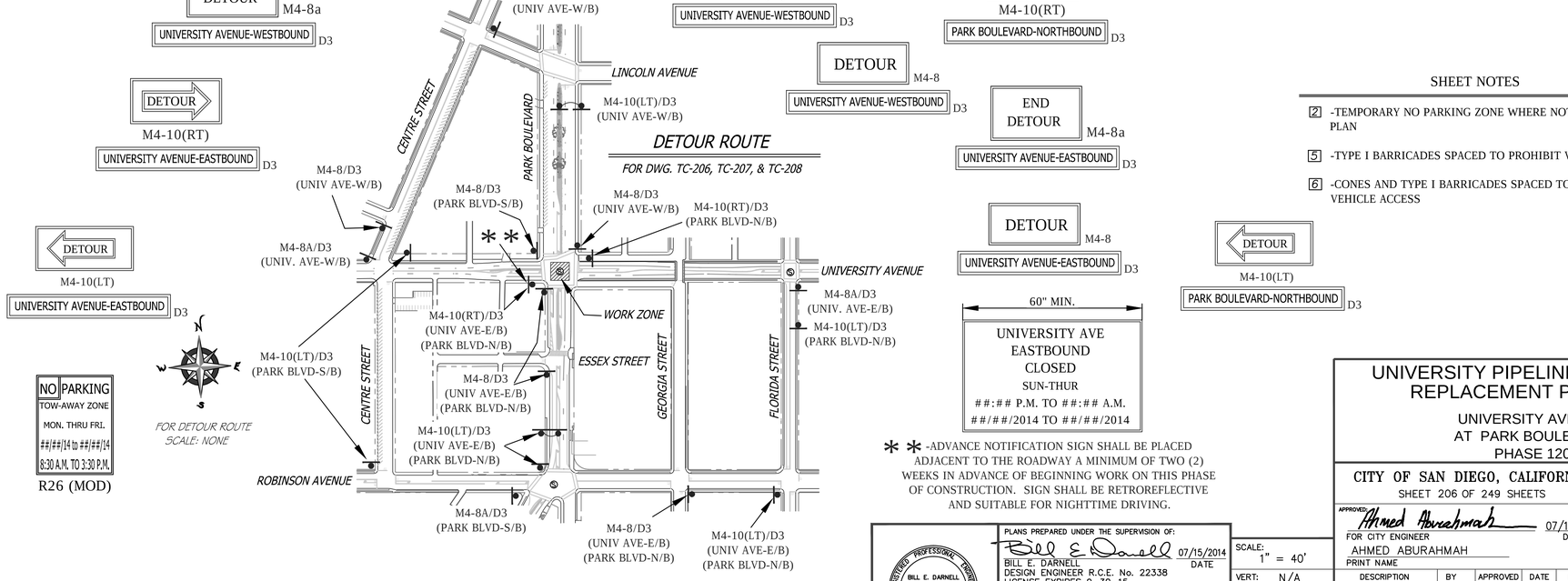
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T205-D

PHASE 120





GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

** -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/CENTRE ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-206

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 120

CITY OF SAN DIEGO, CALIFORNIA
SHEET 206 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

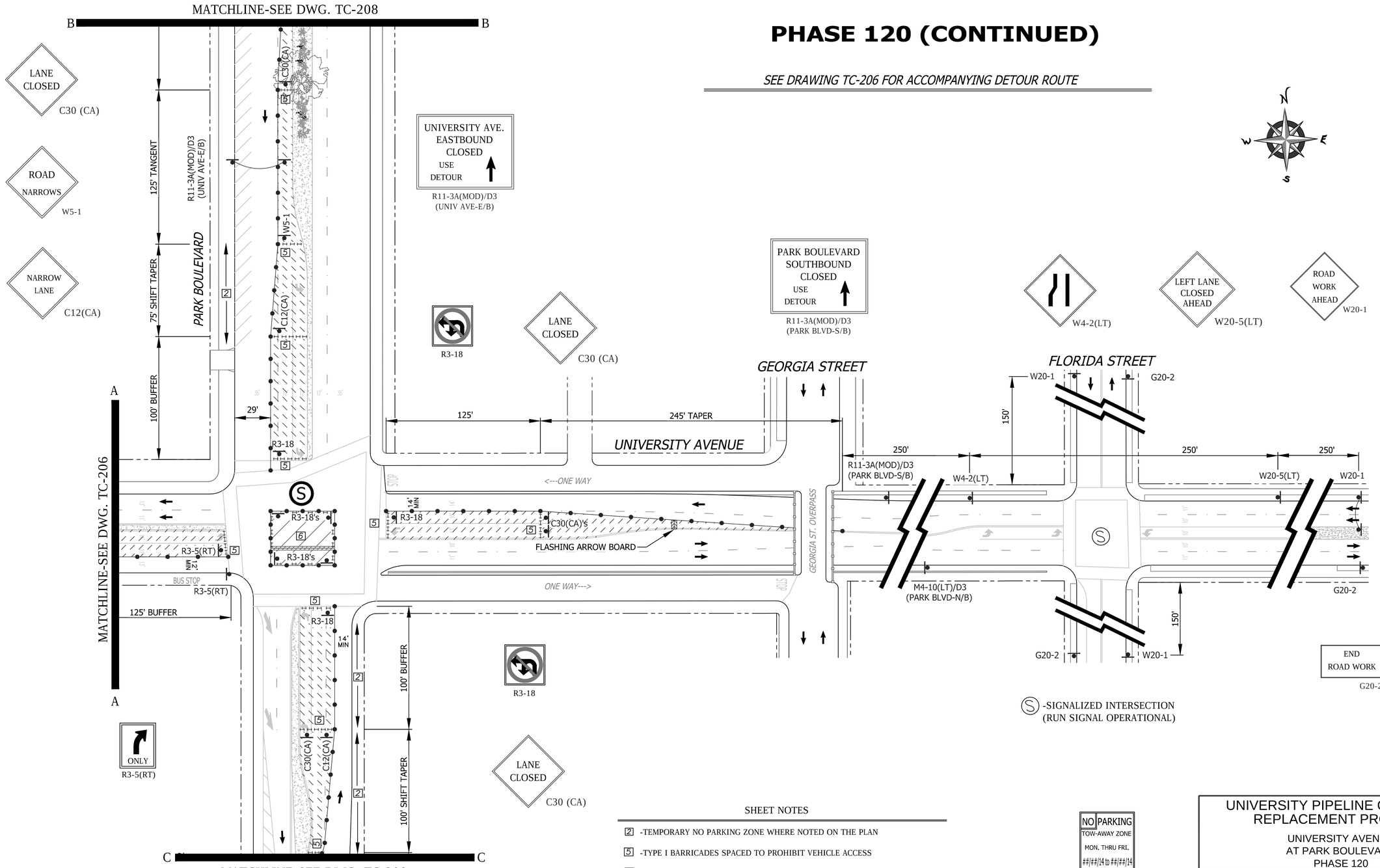
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T206-D

PHASE 120 (CONTINUED)

SEE DRAWING TC-206 FOR ACCOMPANYING DETOUR ROUTE



Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-207

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 120

CITY OF SAN DIEGO, CALIFORNIA
SHEET 207 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T207-D

PHASE 120 (CONTINUED)

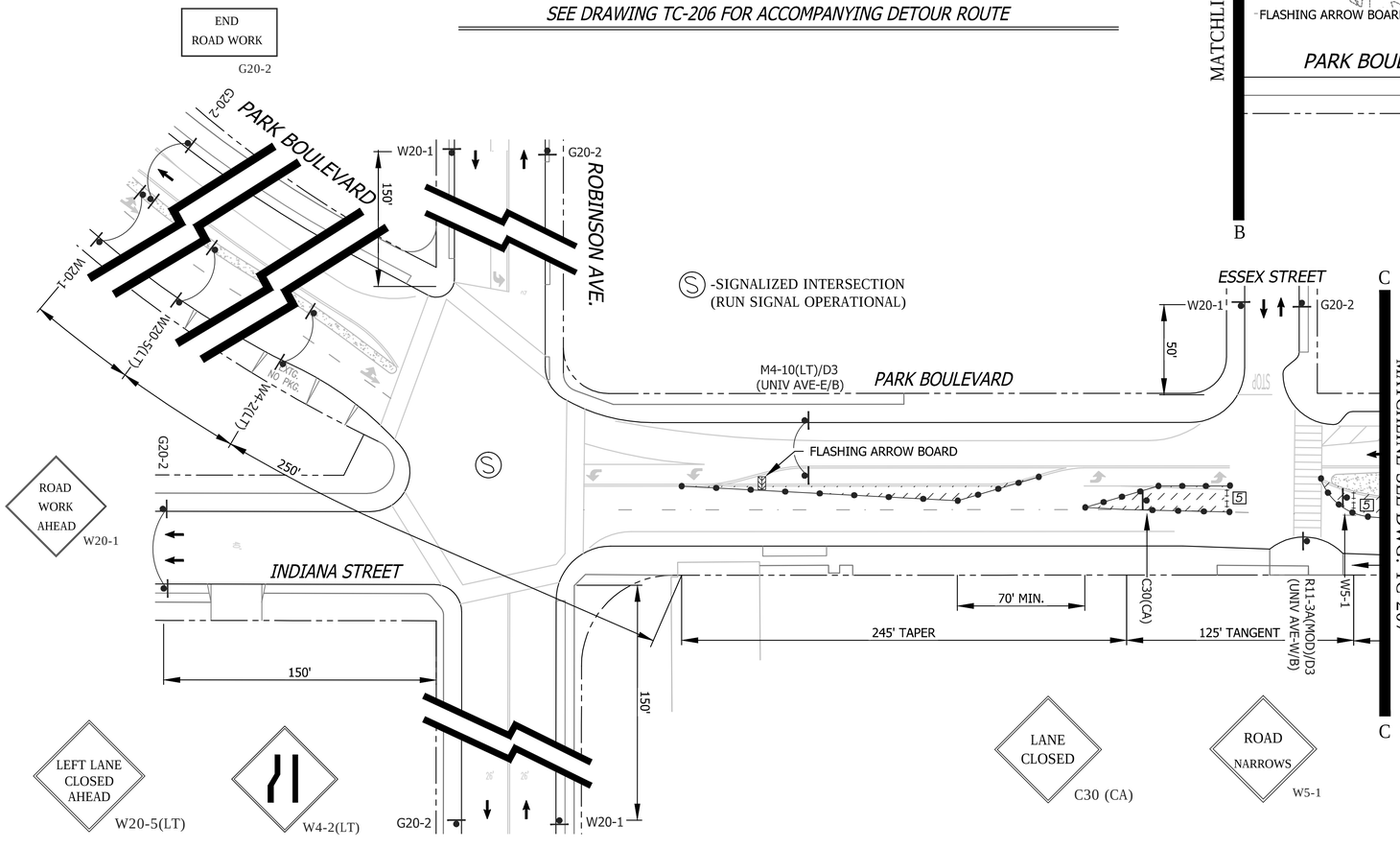
SHEET NOTES

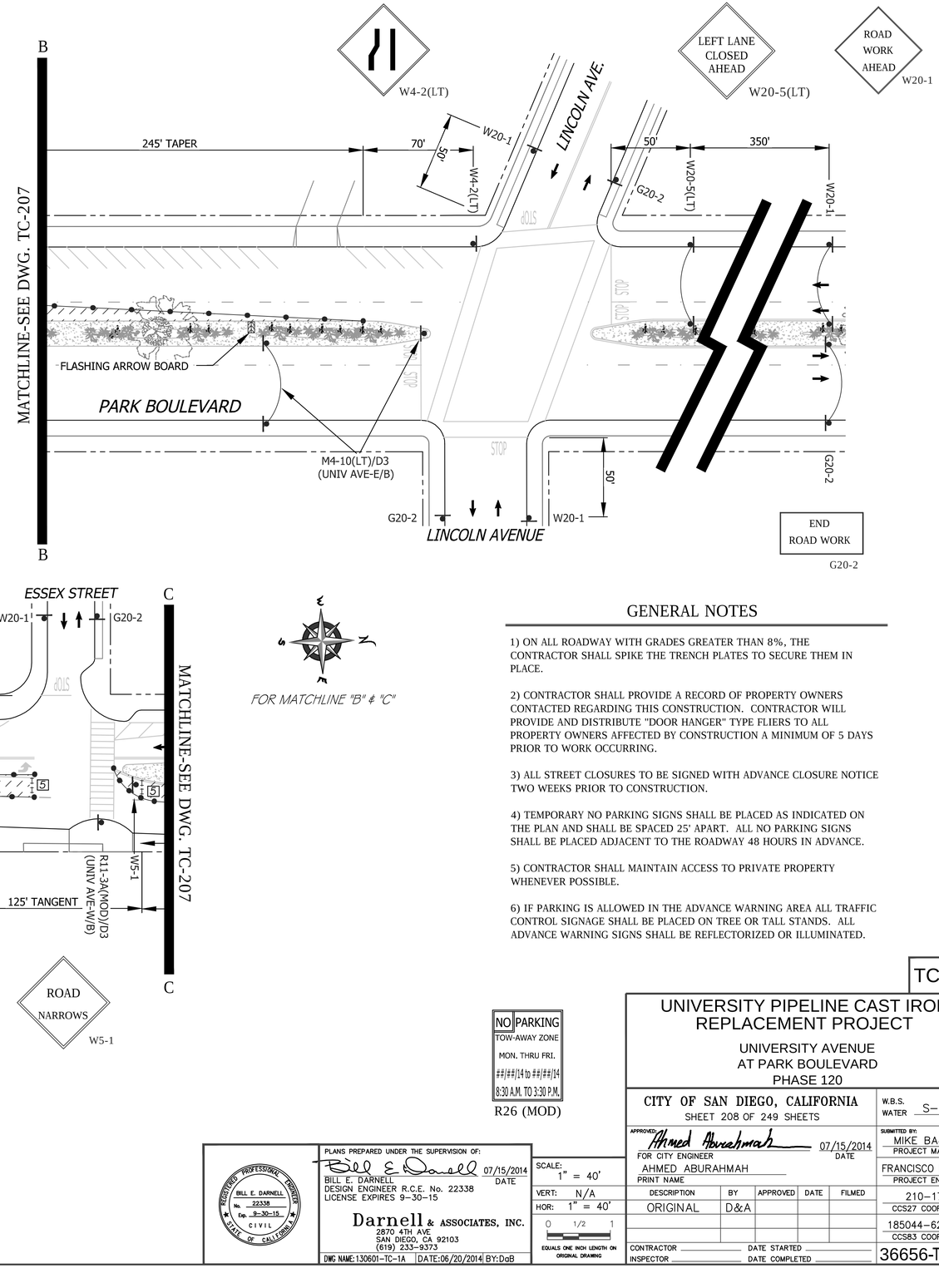
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SEE DRAWING TC-206 FOR ACCOMPANYING DETOUR ROUTE





FOR MATCHLINE "B" & "C"

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-E/O PARK	35	SEE DWG.	SEE DWG.	SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.	SEE DWG.	SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.	SEE DWG.	SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-208

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 120

CITY OF SAN DIEGO, CALIFORNIA
SHEET 208 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

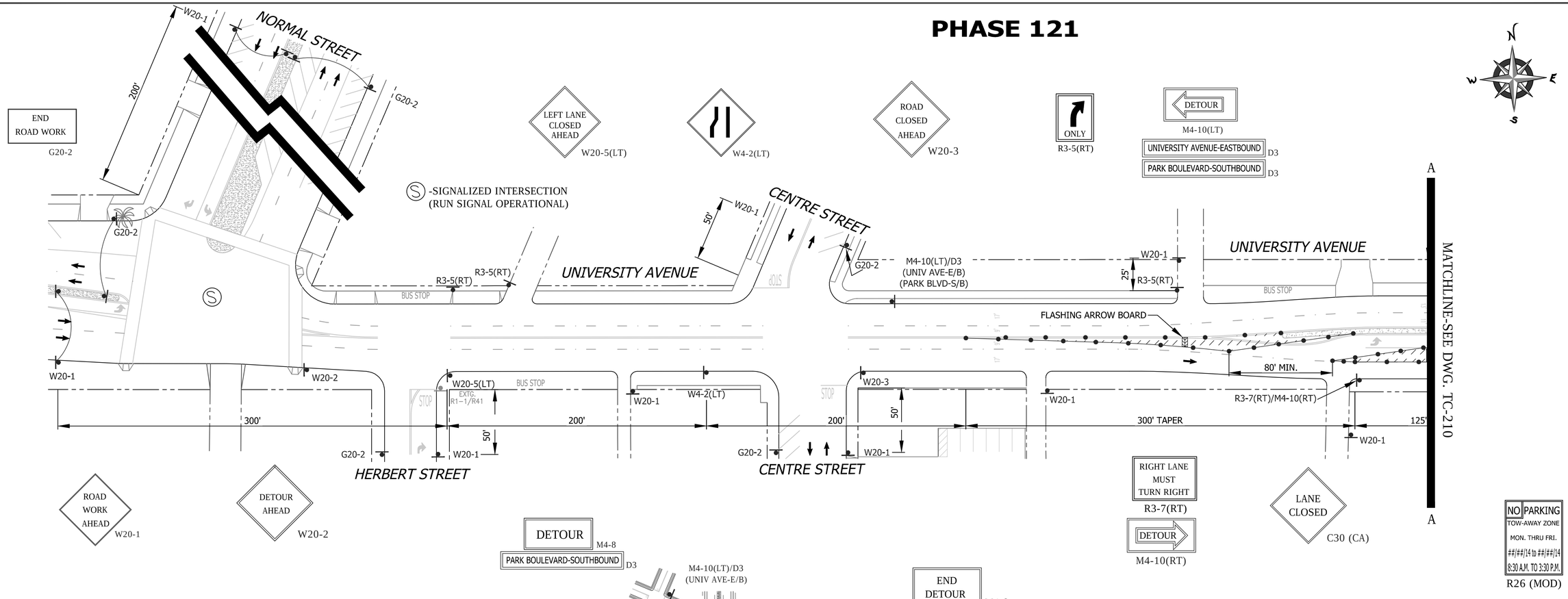
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T208-D

PHASE 121



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/CENTRE ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

** -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

TC-209

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 121

CITY OF SAN DIEGO, CALIFORNIA
SHEET 209 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH DATE
PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T209-D

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 121 (CONTINUED)

SEE DRAWING TC-209 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

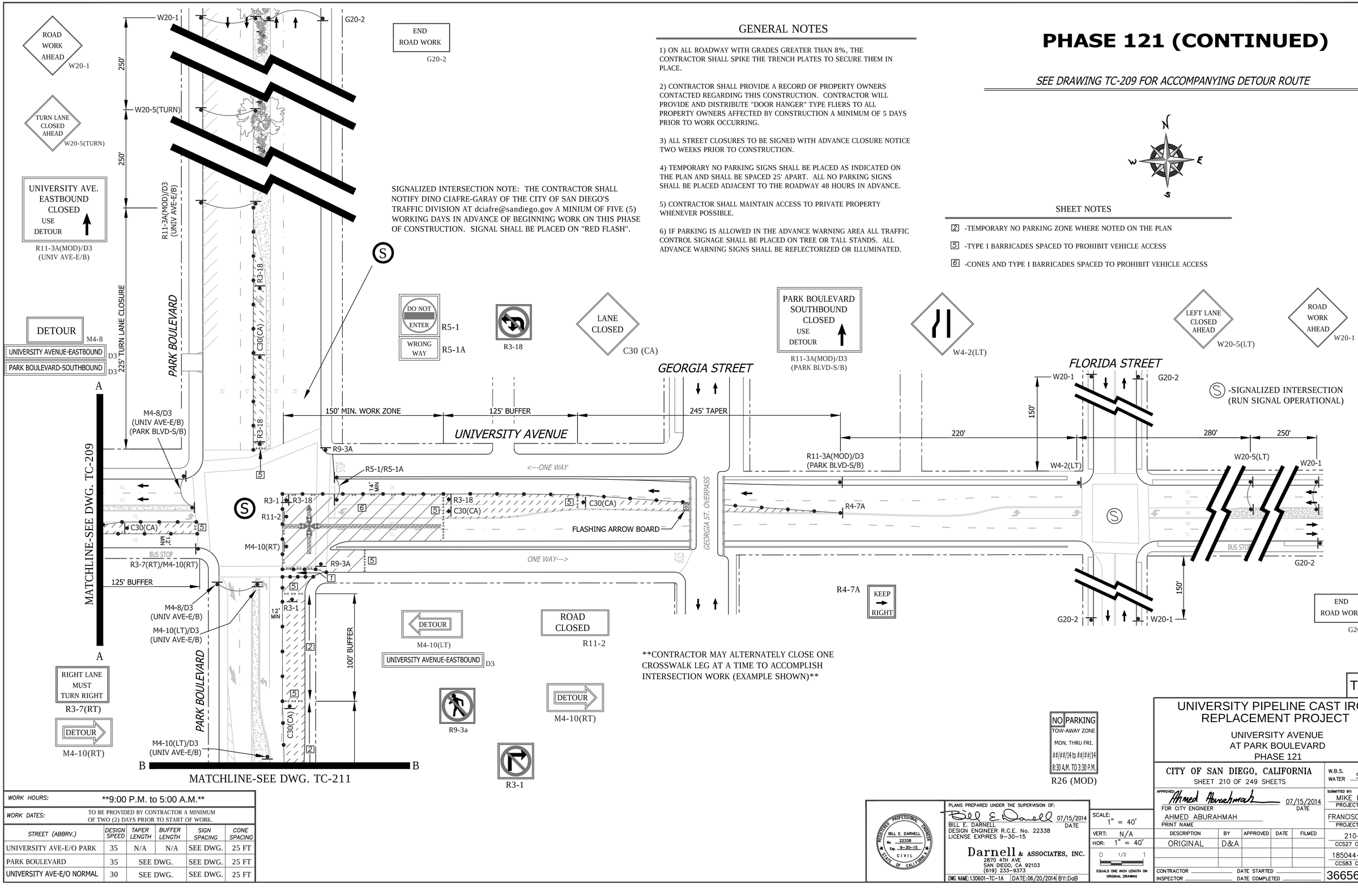
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION WORK (EXAMPLE SHOWN)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

TC-210

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 121

CITY OF SAN DIEGO, CALIFORNIA
SHEET 210 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T210-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

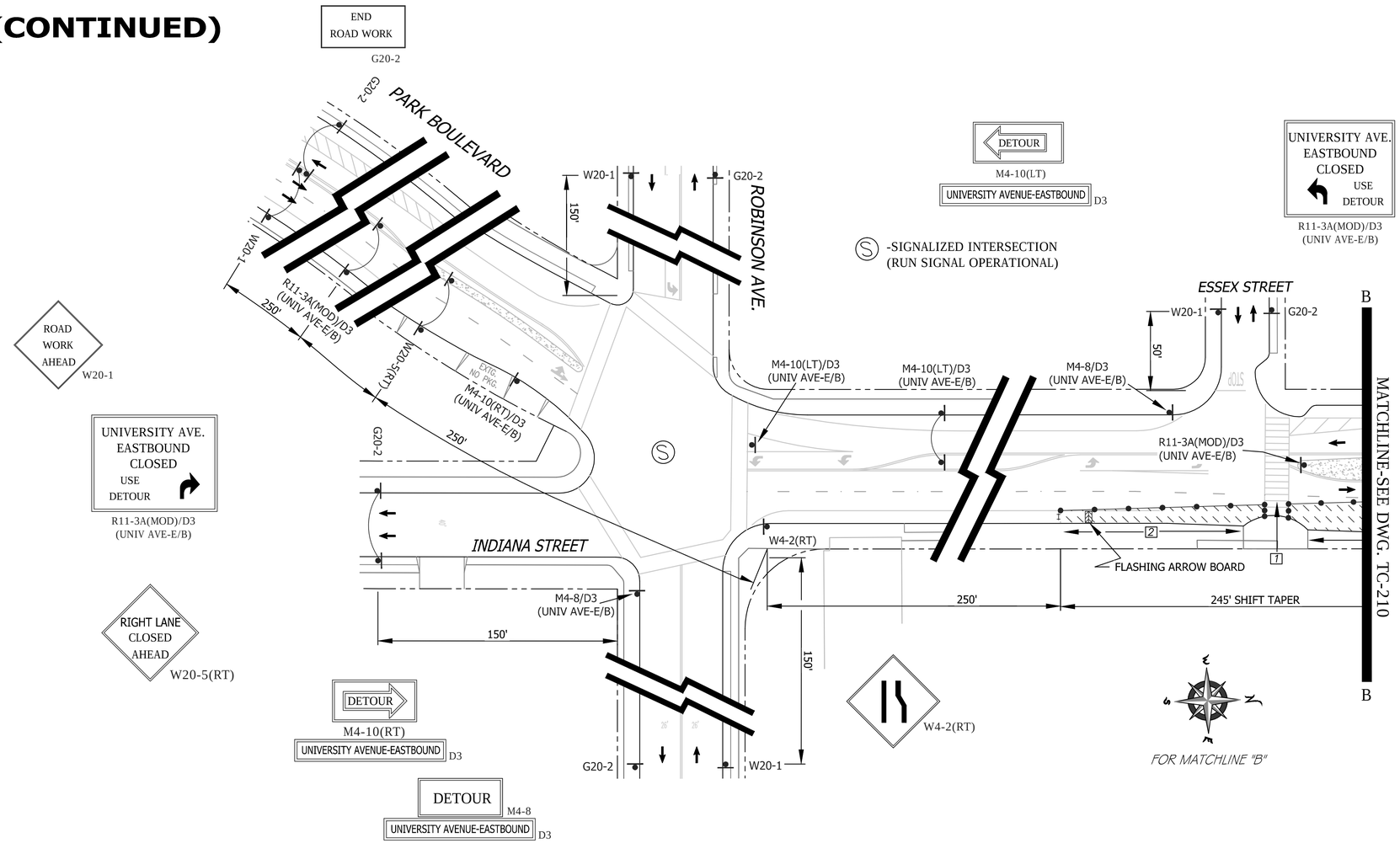
PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 121 (CONTINUED)



SHEET NOTES

1 -PEDESTRIAN CROSSWALK. CONTRACTOR SHALL LEAVE A TEN (10') FOOT WIDE OPENING TO ALLOW PEDESTRIANS ACCESS THRU THE TAPER. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-211

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 121

CITY OF SAN DIEGO, CALIFORNIA
SHEET 211 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

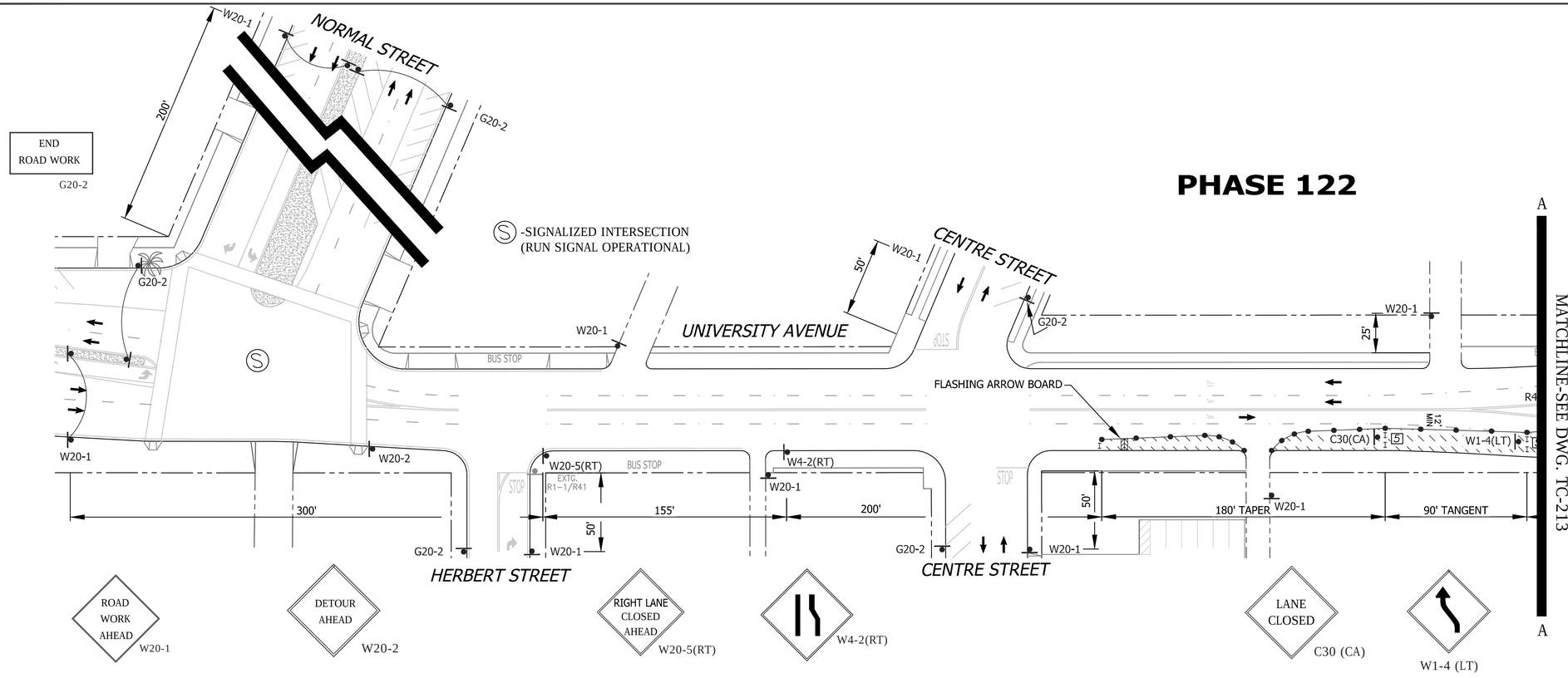
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CCS27 COORDINATE
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T211-D



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/CENTRE ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-212

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
PARK BOULEVARD TO FLORIDA STREET
PHASE 122

CITY OF SAN DIEGO, CALIFORNIA
SHEET 212 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

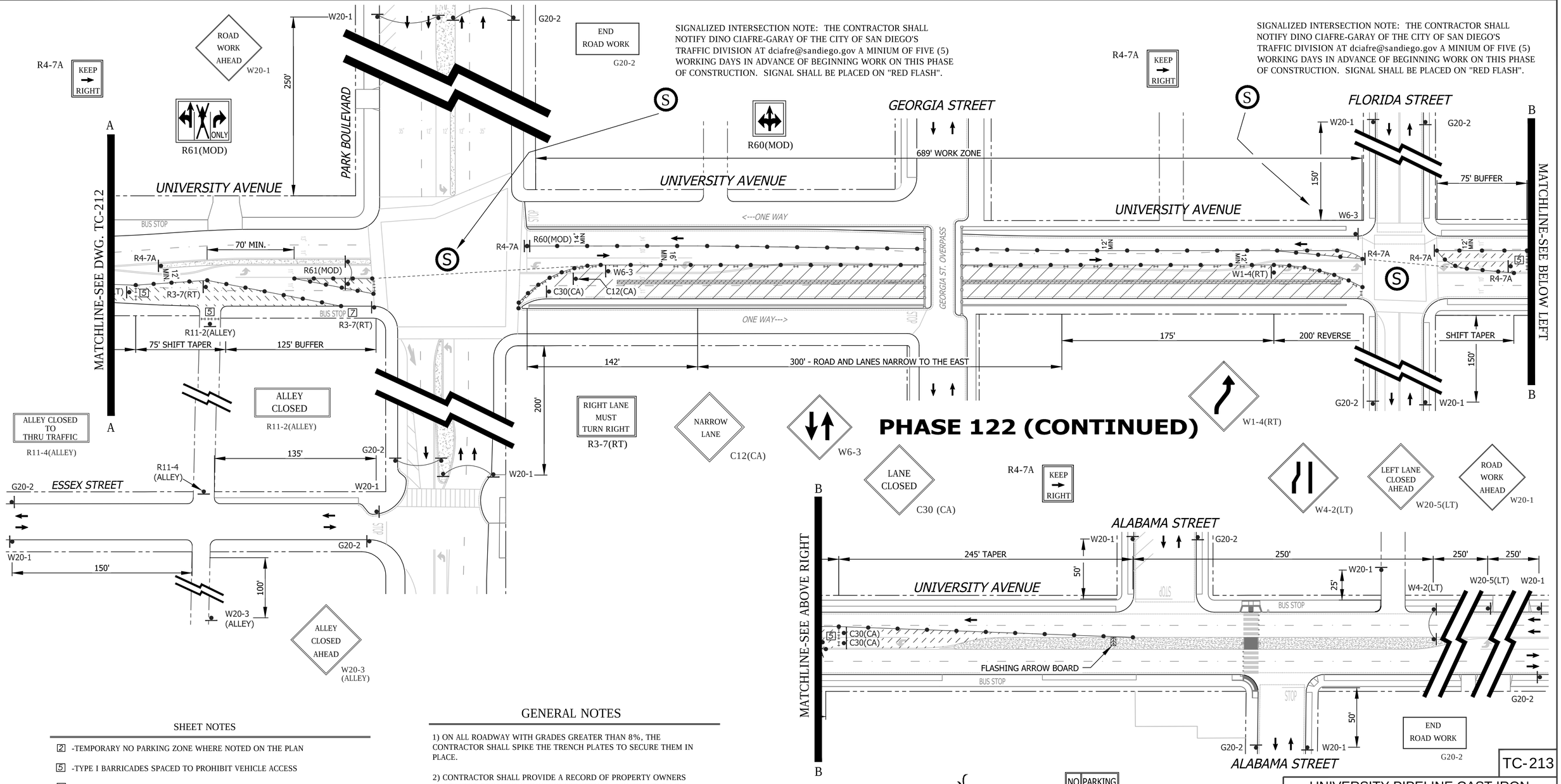
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T212-D



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
PARK BOULEVARD TO FLORIDA STREET
PHASE 122

CITY OF SAN DIEGO, CALIFORNIA
SHEET 213 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

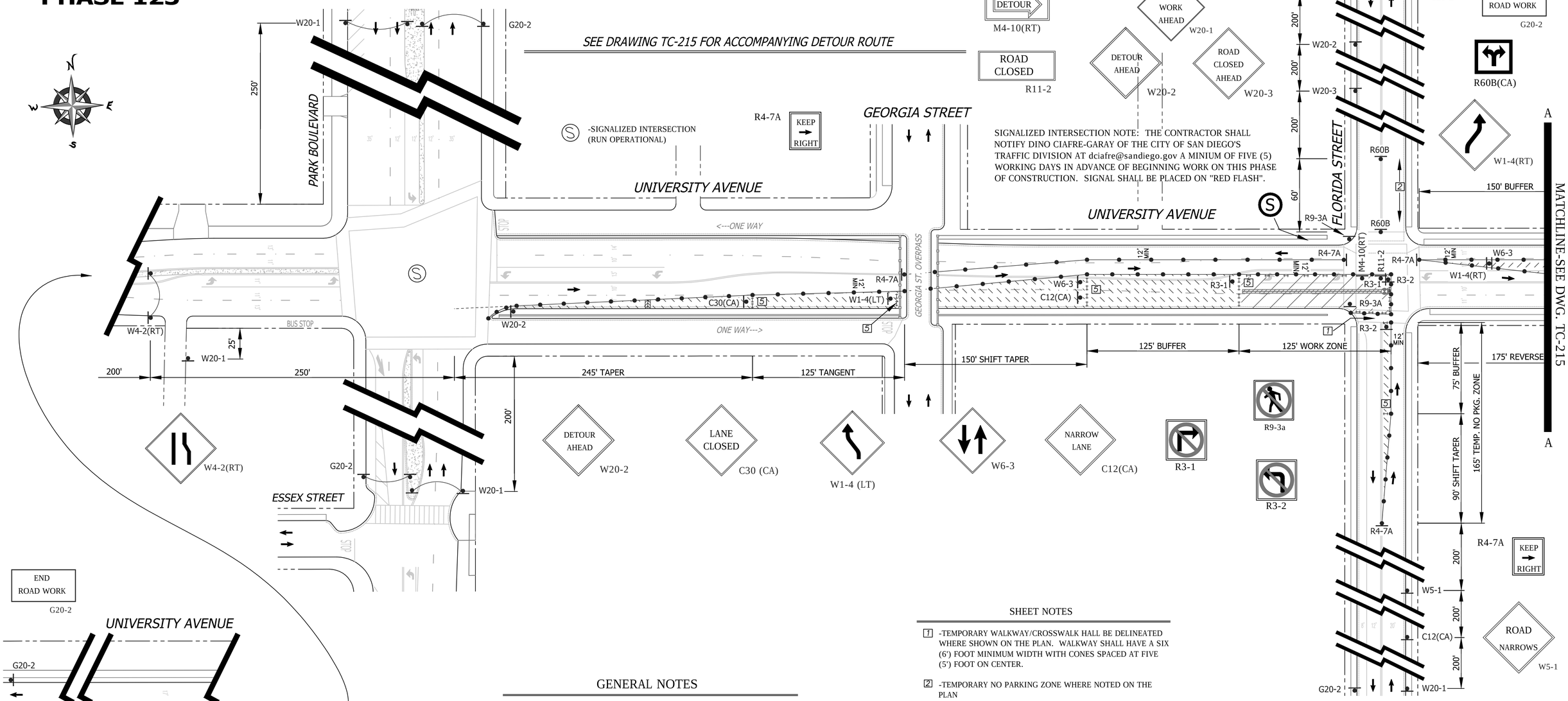
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-213

36656-T213-D

PHASE 123



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY WALKWAY/CROSSWALK HALL BE DELINEATED WHERE SHOWN ON THE PLAN. WALKWAY SHALL HAVE A SIX (6') FOOT MINIMUM WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-214

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 123

CITY OF SAN DIEGO, CALIFORNIA
SHEET 214 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah — 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T214-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

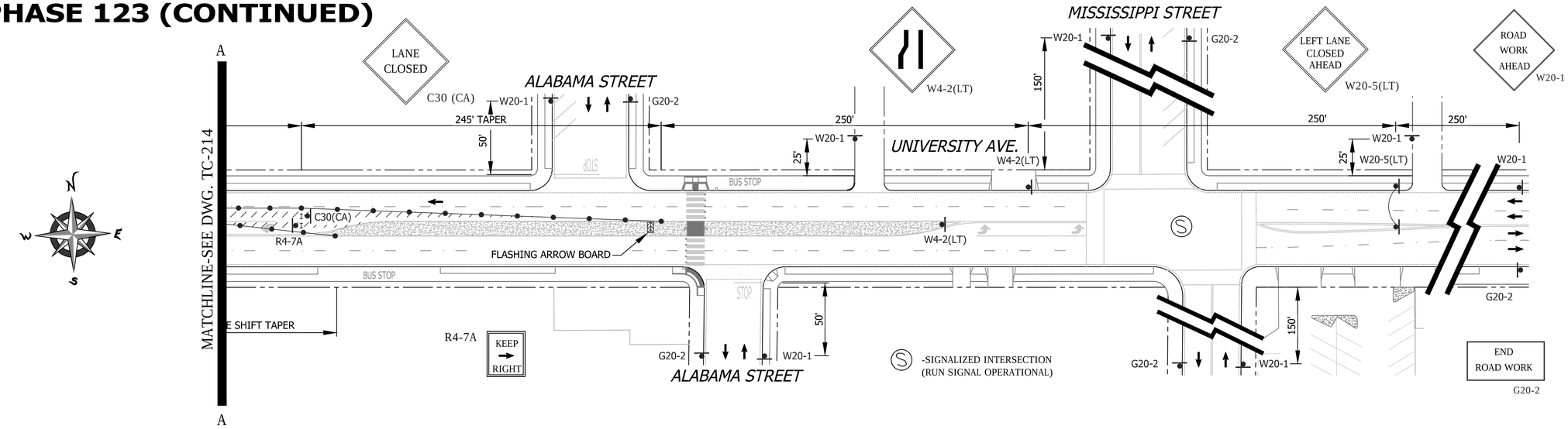
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

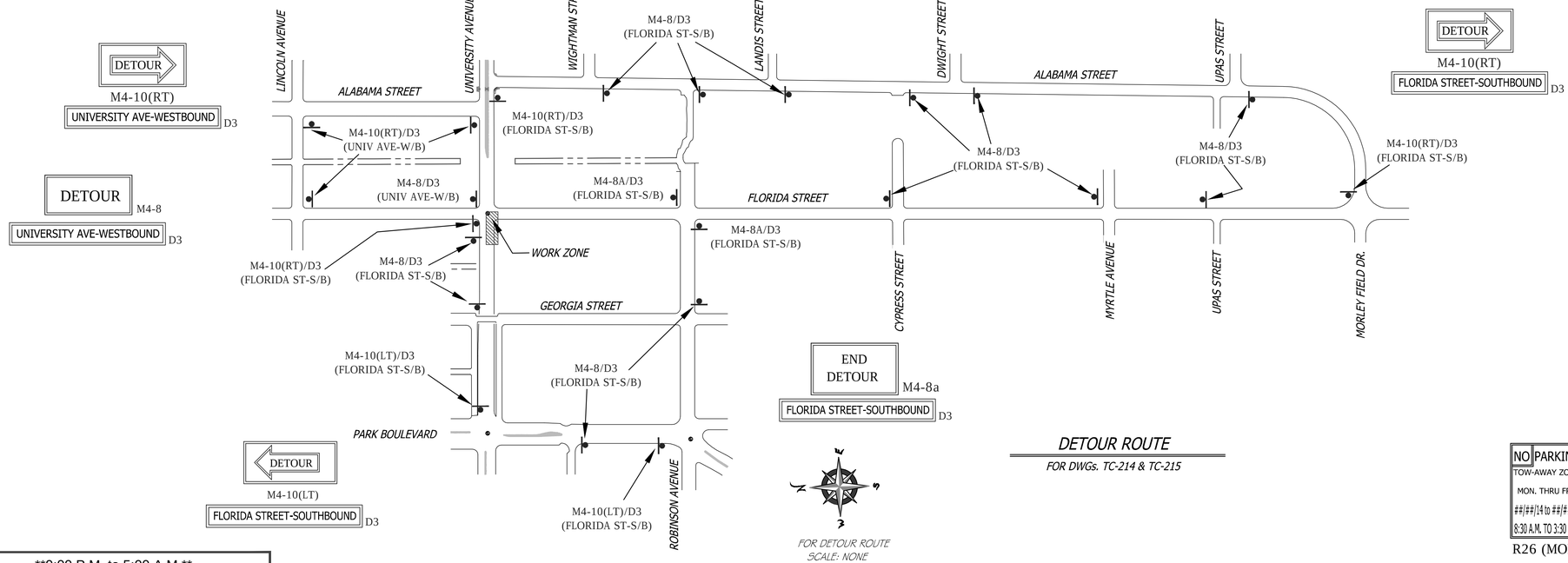
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 123 (CONTINUED)





FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-214 & TC-215

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-215

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 123

CITY OF SAN DIEGO, CALIFORNIA
SHEET 215 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

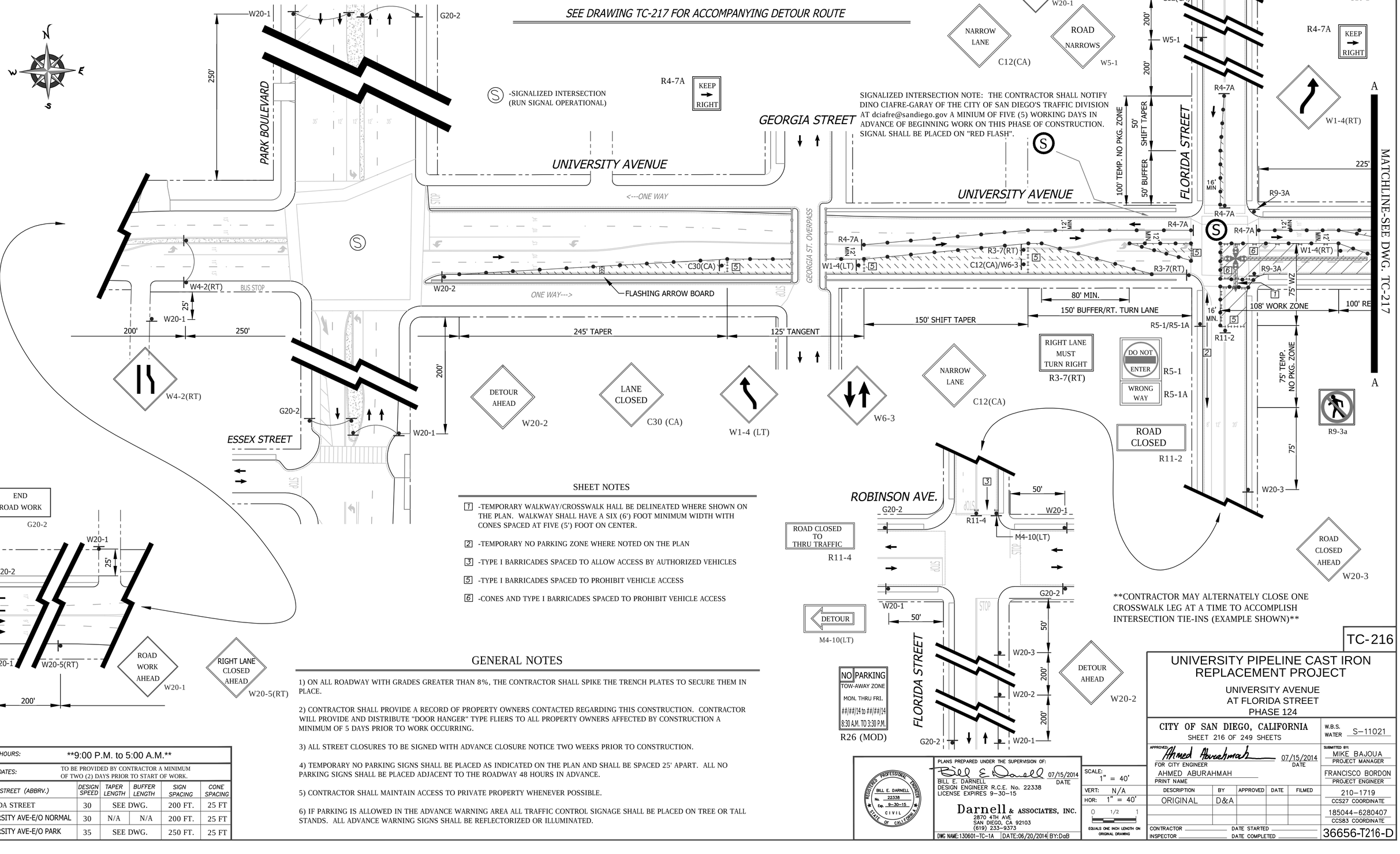
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T215-D

PHASE 124



SHEET NOTES

1. -TEMPORARY WALKWAY/CROSSWALK HALL BE DELINEATED WHERE SHOWN ON THE PLAN. WALKWAY SHALL HAVE A SIX (6') FOOT MINIMUM WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-216

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 124

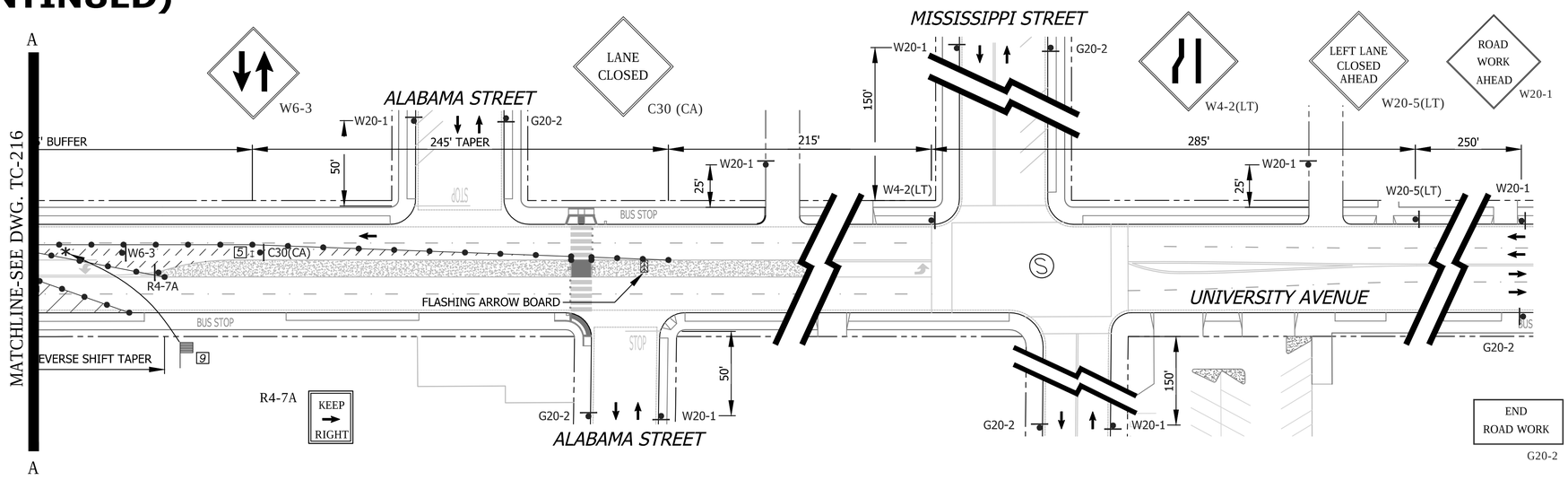
CITY OF SAN DIEGO, CALIFORNIA
SHEET 216 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T216-D

PHASE 124 (CONTINUED)



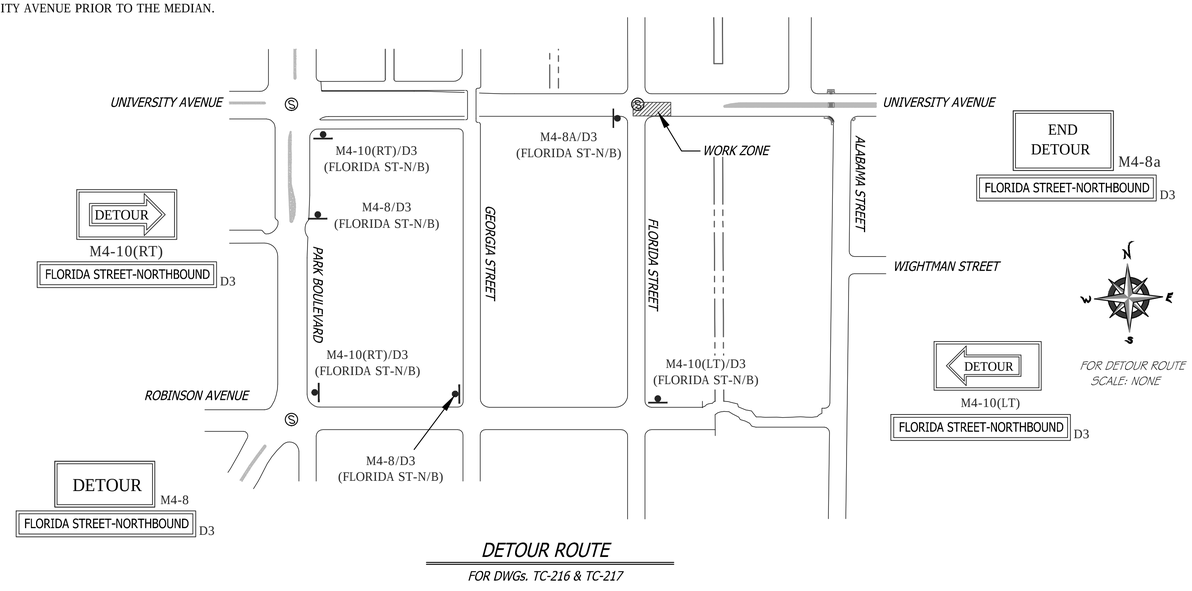
SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -VEHICULAR FLAGMAN. CONTRACTOR SHALL PROVIDE A SAFETY VESTED, HARD HAT EQUIPPED, FLAGMAN TO FACILLITATE VEHICLE MOVEMENT BACK TO THE SOUTHSIDE OF UNIVERSITY AVENUE PRIOR TO THE MEDIAN.



DETOUR ROUTE

FOR DWGs. TC-216 & TC-217

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-217

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 124

CITY OF SAN DIEGO, CALIFORNIA
SHEET 217 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

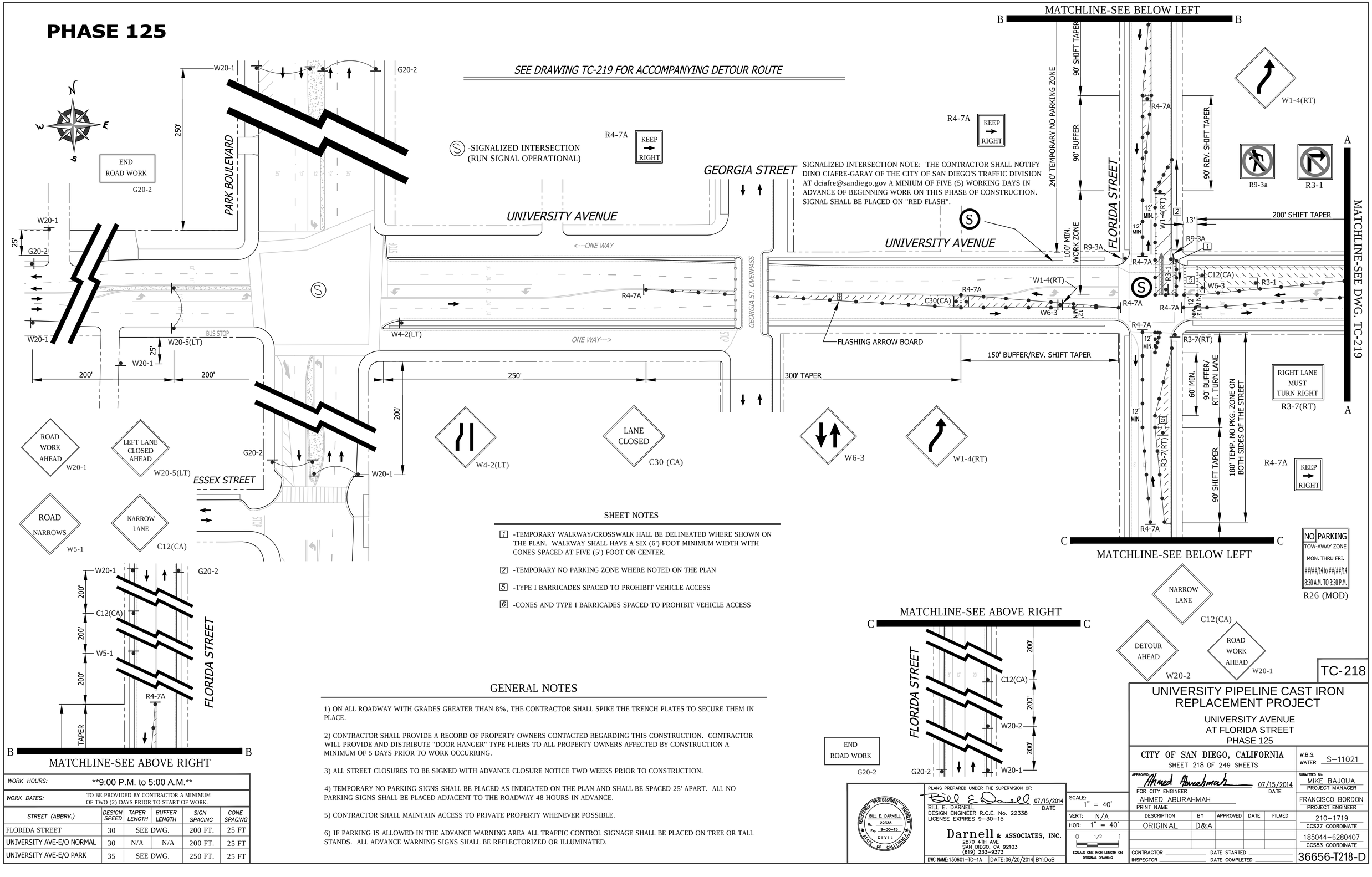
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T217-D

PHASE 125



SHEET NOTES

1 -TEMPORARY WALKWAY/CROSSWALK HALL BE DELINEATED WHERE SHOWN ON THE PLAN. WALKWAY SHALL HAVE A SIX (6') FOOT MINIMUM WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-218

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 125

CITY OF SAN DIEGO, CALIFORNIA
SHEET 218 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

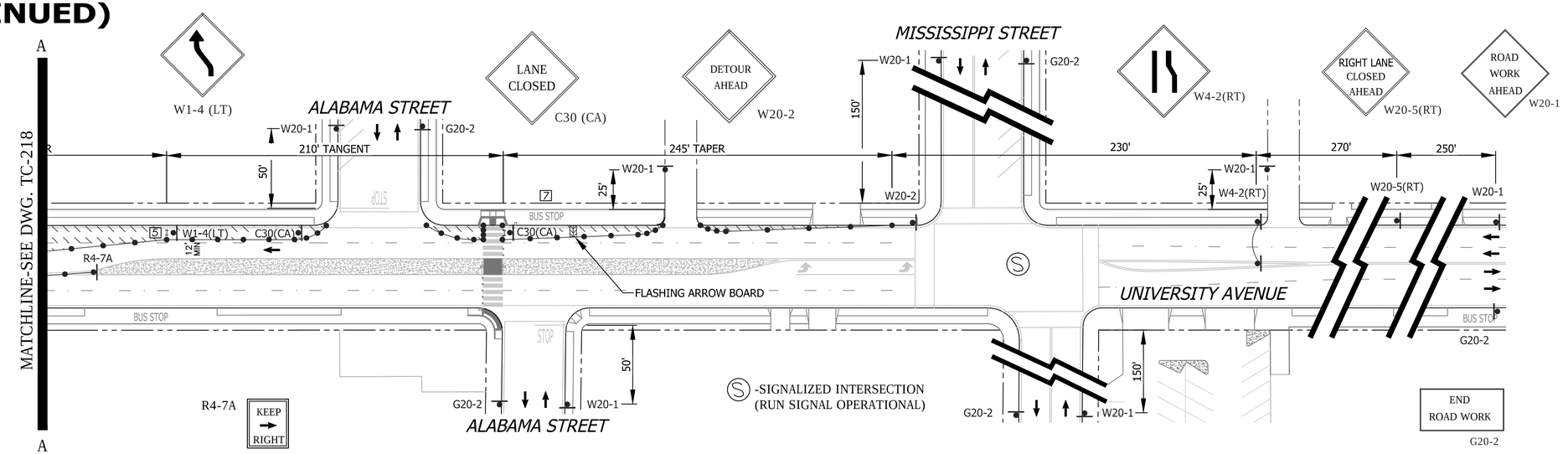
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T218-D

PHASE 125 (CONTINUED)



SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

DETOUR ROUTE

FOR DWGs. TC-218 & TC-219

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-218

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 125

CITY OF SAN DIEGO, CALIFORNIA
SHEET 218 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

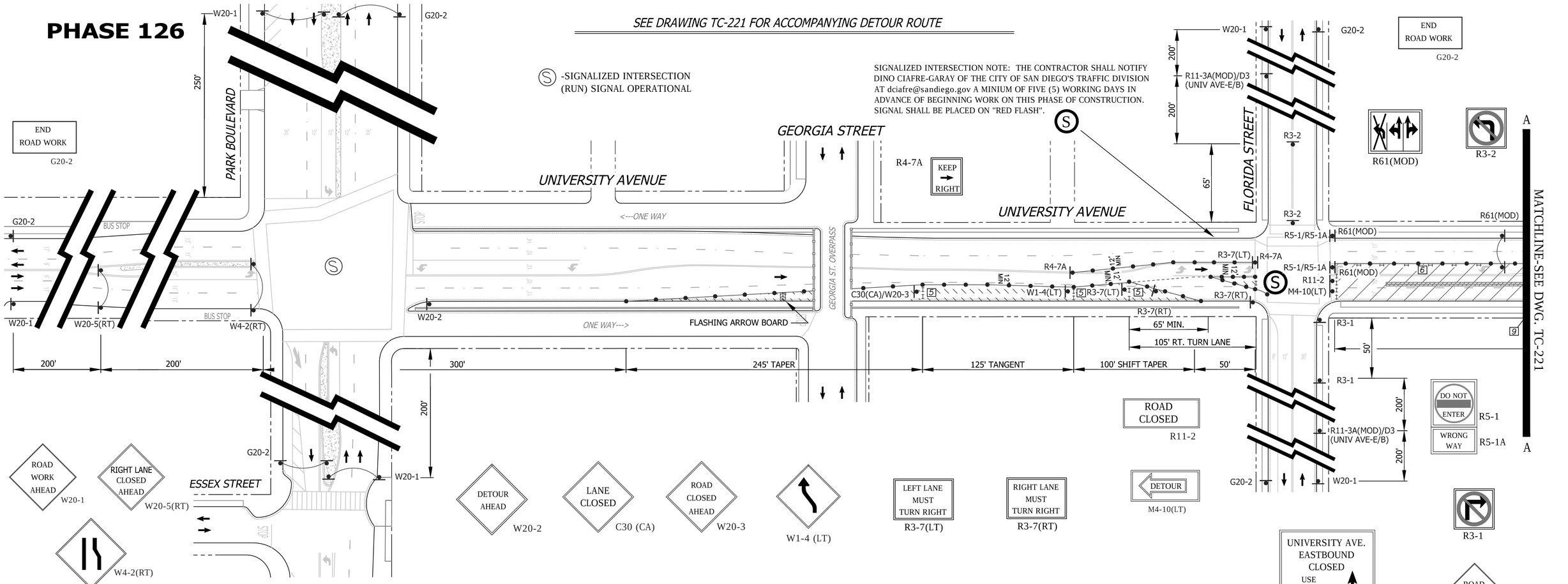
36656-T218-D

PHASE 126

SEE DRAWING TC-221 FOR ACCOMPANYING DETOUR ROUTE

Ⓢ -SIGNALIZED INTERSECTION
(RUN) SIGNAL OPERATIONAL

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-220

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FLORIDA STREET TO ALABAMA STREET
PHASE 126

CITY OF SAN DIEGO, CALIFORNIA
SHEET 220 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

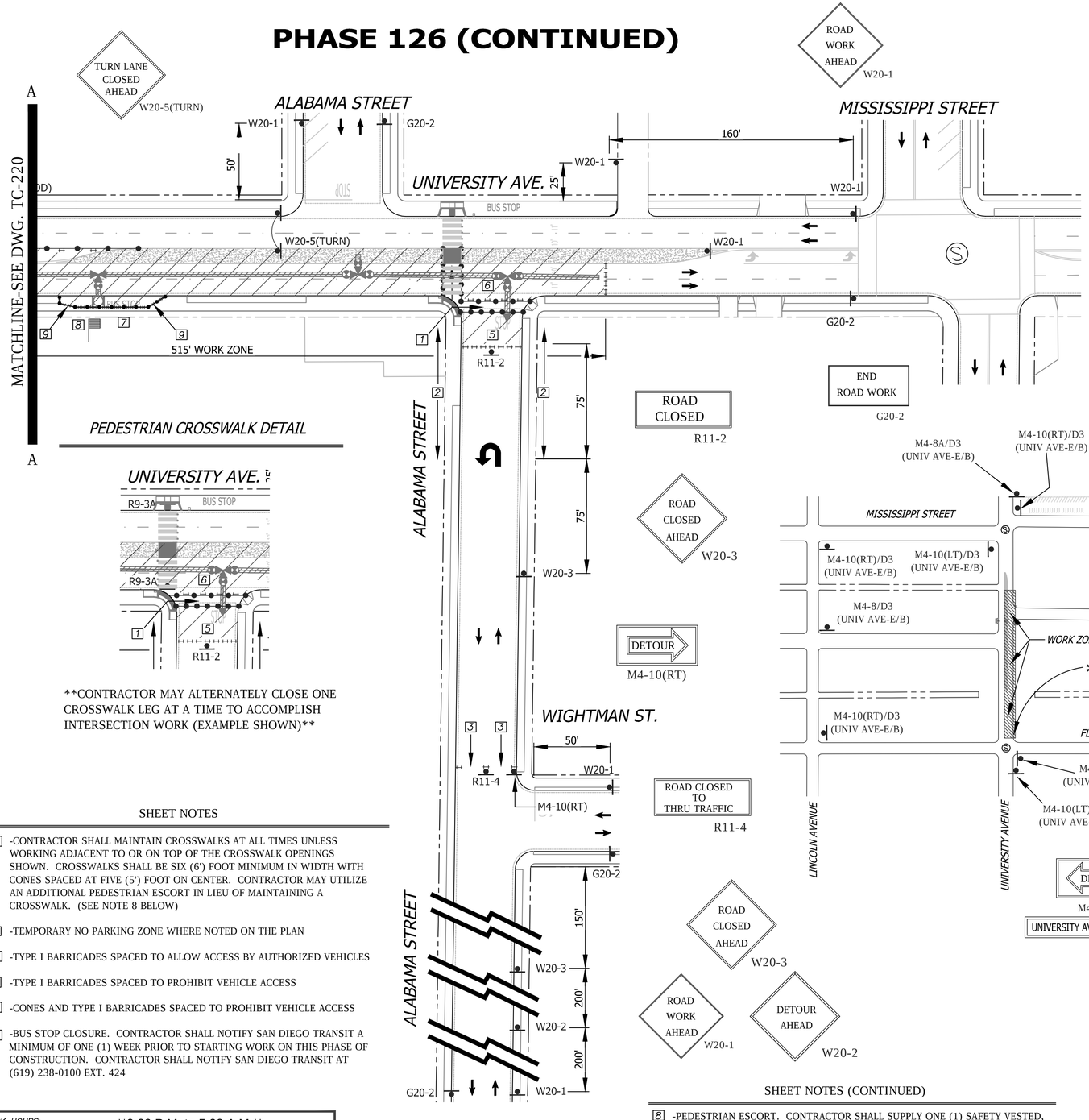
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T220-D

PHASE 126 (CONTINUED)



PEDESTRIAN CROSSWALK DETAIL

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION WORK (EXAMPLE SHOWN)

SHEET NOTES

[1] -CONTRACTOR SHALL MAINTAIN CROSSWALKS AT ALL TIMES UNLESS WORKING ADJACENT TO OR ON TOP OF THE CROSSWALK OPENINGS SHOWN. CROSSWALKS SHALL BE SIX (6') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER. CONTRACTOR MAY UTILIZE AN ADDITIONAL PEDESTRIAN ESCORT IN LIEU OF MAINTAINING A CROSSWALK. (SEE NOTE 8 BELOW)

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

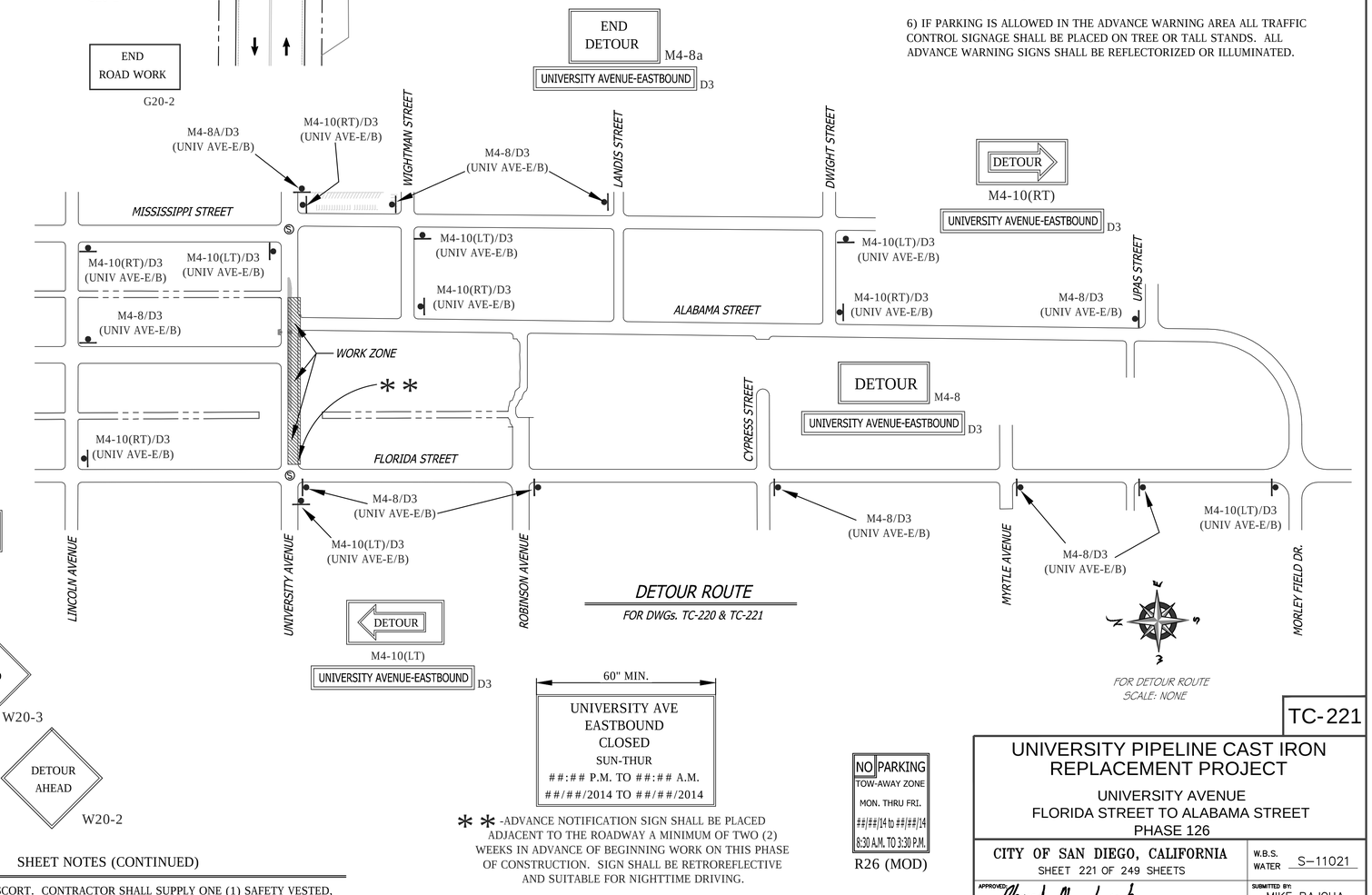
END ROAD WORK
G20-2

SHEET NOTES (CONTINUED)

[8] -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY ONE (1) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE SIDEWALK WORK ZONE AREA.

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL



DETOUR ROUTE

FOR DWGs. TC-220 & TC-221

FOR DETOUR ROUTE SCALE: NONE

60" MIN.

UNIVERSITY AVE EASTBOUND CLOSED SUN-THUR ##:## P.M. TO ##:## A.M. ##/##/2014 TO ##/##/2014

** -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-221

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FLORIDA STREET TO ALABAMA STREET
PHASE 126

CITY OF SAN DIEGO, CALIFORNIA
SHEET 221 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T221-D

MATCHLINE-SEE DWG. TC-223

B — B

W5-1

ROAD NARROWS W5-1

R4-7A KEEP RIGHT

150'

125' SHIFT TAPER

75' BUFFER

TEMPORARY NO PARKING ZONE

WORK ZONE

ALABAMA STREET

R4-7A

[5]

[2]

END ROAD WORK G20-2

ROAD WORK AHEAD W20-1

M4-9B(LT)

DETOUR

R9-3a

12' MIN

R9-3A

M4-9B(LT) [1]

BUS STOP [7]

[6]

[5]

W20-1

250'

G20-2

W20-1

50'

STOP

ROAD WORK AHEAD W20-1

ALABAMA STREET

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

UNIVERSITY AVE. WESTBOUND CLOSED USE DETOUR

R11-3A(MOD)/D3 (UNIV AVE-W/B)

R3-1

ALLEY CLOSED

R11-2(ALLEY)

R11-2(ALLEY)

UNIVERSITY AVE.

R3-1

50'

ROAD CLOSED

R11-2

DETOUR

M4-10(RT)

W20-1

150'

R3-11A(MOD)/D3 (UNIV AVE-W/B)

MISSISSIPPI ST.

M4-10(RT)

R11-2

M4-8/D3 (UNIV AVE-W/B)

R3-2

R3-2

60'

150'

R3-11A(MOD)/D3 (UNIV AVE-W/B)

150'

G20-2

W20-1

UNIVERSITY AVE. WESTBOUND CLOSED USE DETOUR

R11-3A(MOD)/D3 (UNIV AVE-W/B)

R3-2

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

W20-1

G20-2

R60B(CA)

DETOUR M4-8

UNIVERSITY AVENUE-WESTBOUND D3

ONLY R3-5(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ

M4-8/D3 (UNIV AVE-W/B)

125' BUFFER

245' TAPER

W20-1

25'

R3-5(RT)

R60B

C20(CA)

FLASHING ARROW BOARD

LOUISIANA STREET

W20-1

50'

W20-3

G20-2

225'

W20-1

25'

W4-2(LT)

BUS STOP

UNIVERSITY AVE.

UNIVERSITY AVENUE

BUS STOP

STOP

50'

G20-2

W20-1

LANE CLOSED C30 (CA)

ROAD CLOSED AHEAD W20-3

W4-2(LT)

SHEET NOTES

[1] -PEDESTRIAN CROSSWALK SHALL REMAIN OPEN DURING THIS PHASE OF CONSTRUCTION. MAINTAIN ORIGINAL CROSSWALK WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SEE DRAWING TC-223 FOR ACCOMPANYING DETOUR ROUTE

PHASE 127

N W E S

A — A

MATCHLINE-SEE DWG. TC-223

TC-222

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E. Darnell 07/15/2014 DATE

BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'

VERT: N/A

HOR: 1" = 40'

0 1/2 1

EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ALABAMA STREET
PHASE 127

CITY OF SAN DIEGO, CALIFORNIA
SHEET 222 OF 249 SHEETS

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

W.B.S.
WATER S-11021

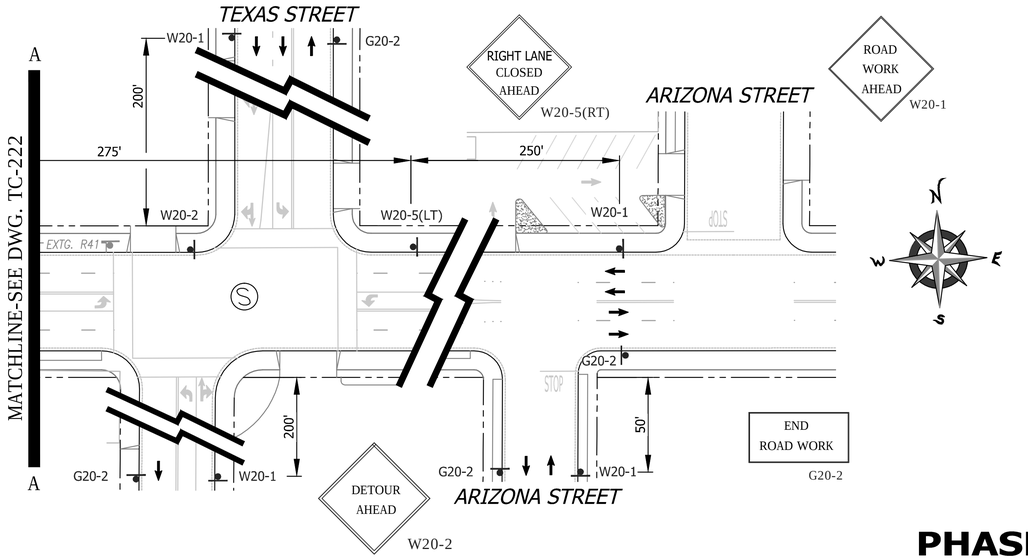
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

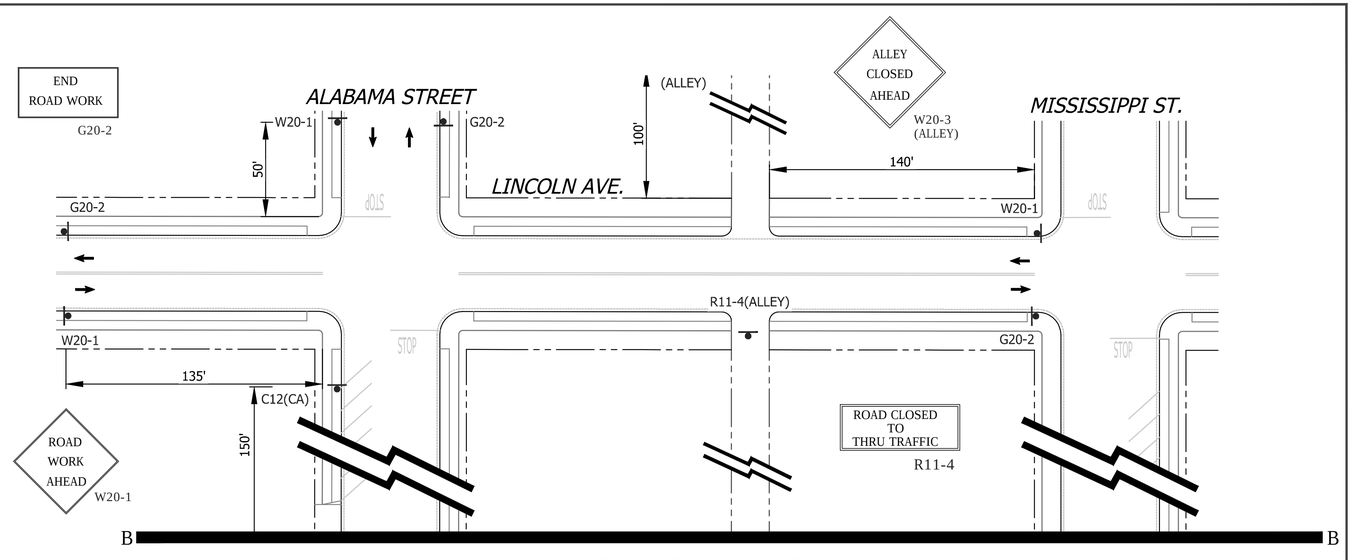
FRANCISCO BORDON
PROJECT ENGINEER

210-1725
CCS27 COORDINATE

1850444-628047
CCS83 COORDINATE

36656-T222-D

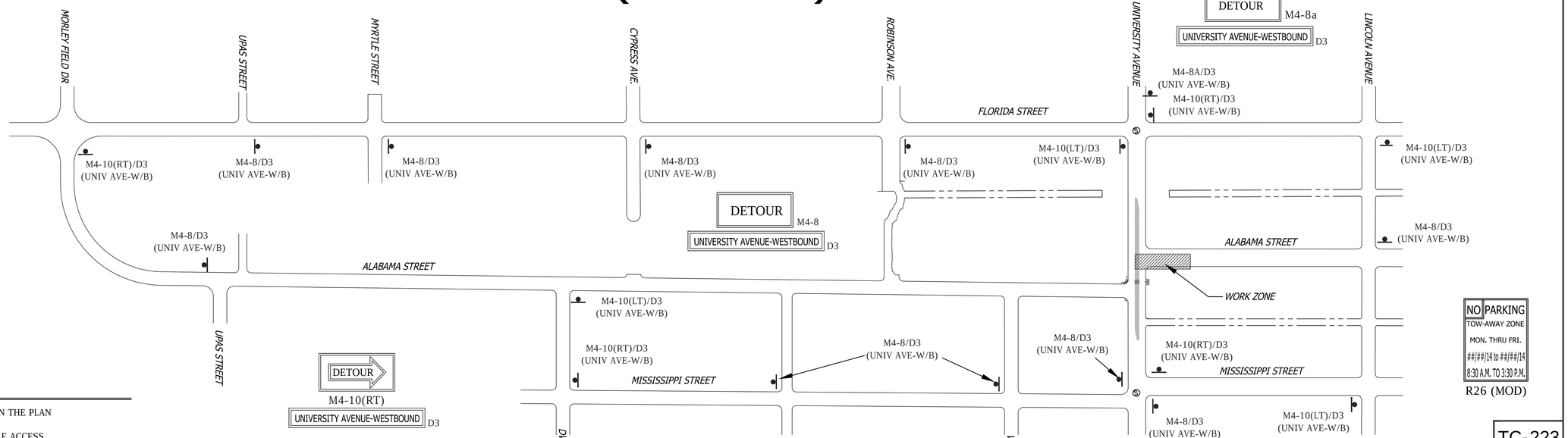




MATCHLINE-SEE DWG. TC-222

PHASE 127 (CONTINUED)

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL



DETOUR ROUTE

FOR DWGs. TC-222 & TC-223

FOR DETOUR ROUTE
SCALE: NONE

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / LOUISIANA	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-223

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ALABAMA
PHASE 127

CITY OF SAN DIEGO, CALIFORNIA
SHEET 223 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

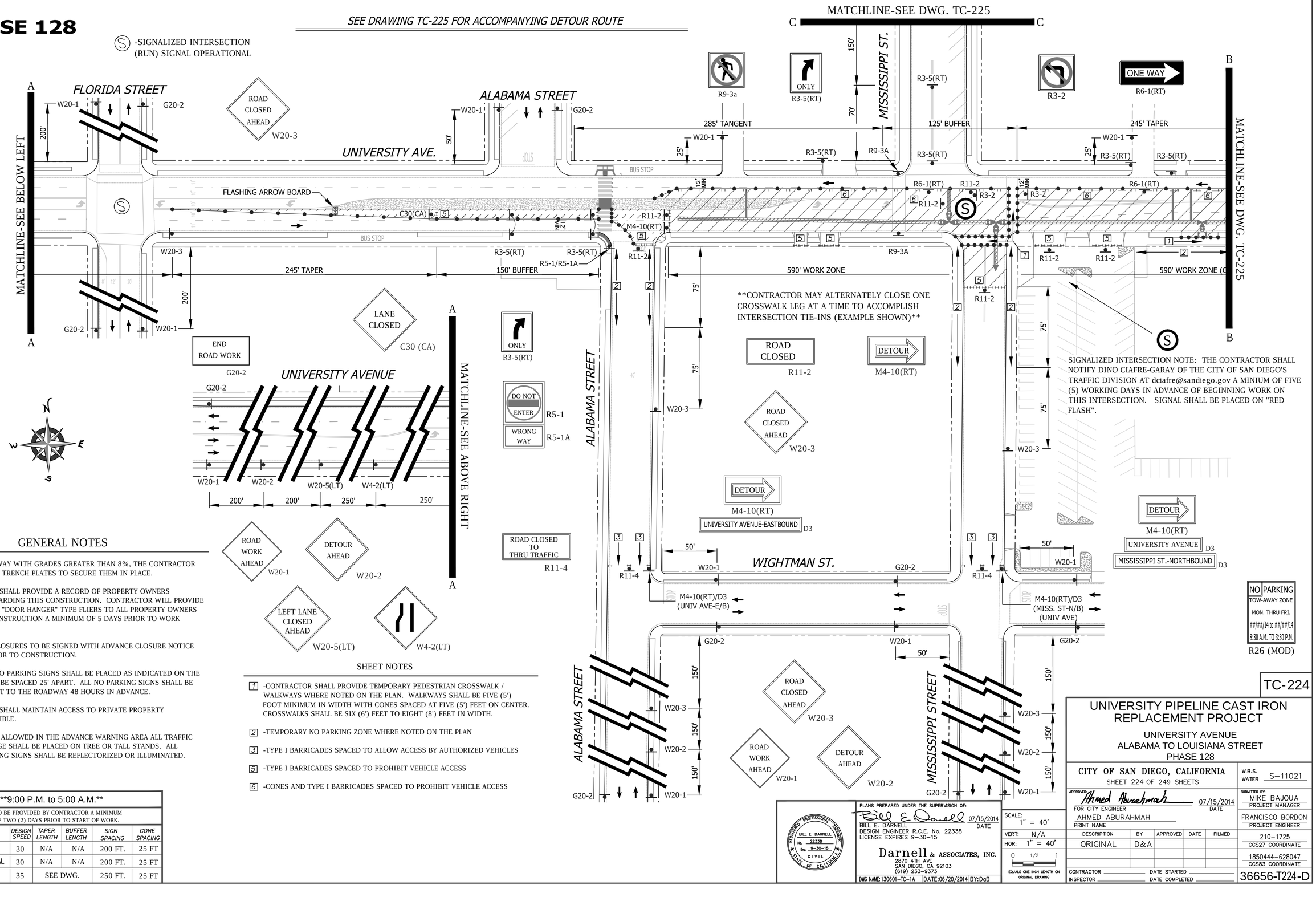
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T223-D

PHASE 128

Ⓢ -SIGNALIZED INTERSECTION
(RUN) SIGNAL OPERATIONAL

SEE DRAWING TC-225 FOR ACCOMPANYING DETOUR ROUTE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-224

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ALABAMA TO LOUISIANA STREET
PHASE 128

CITY OF SAN DIEGO, CALIFORNIA
SHEET 224 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

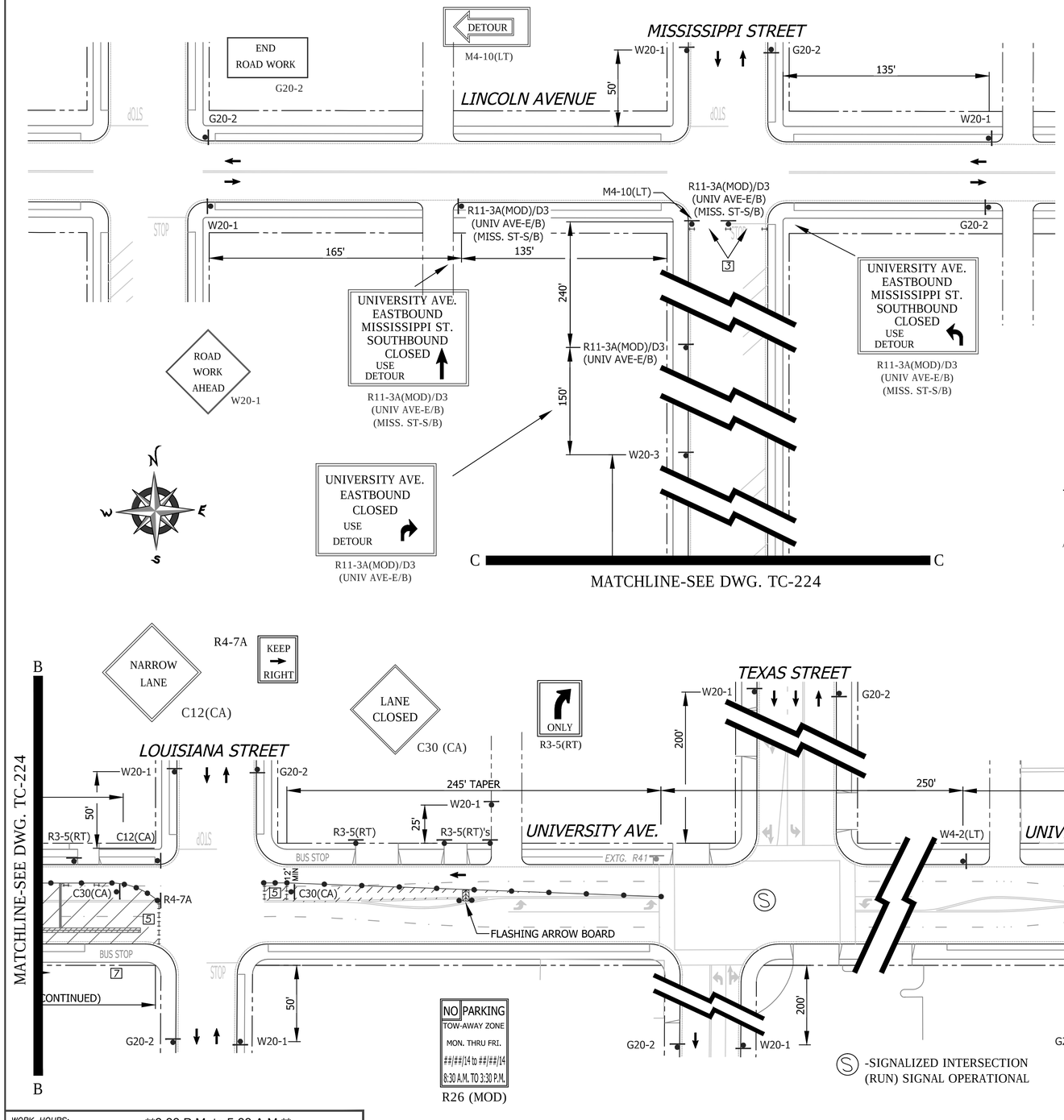
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

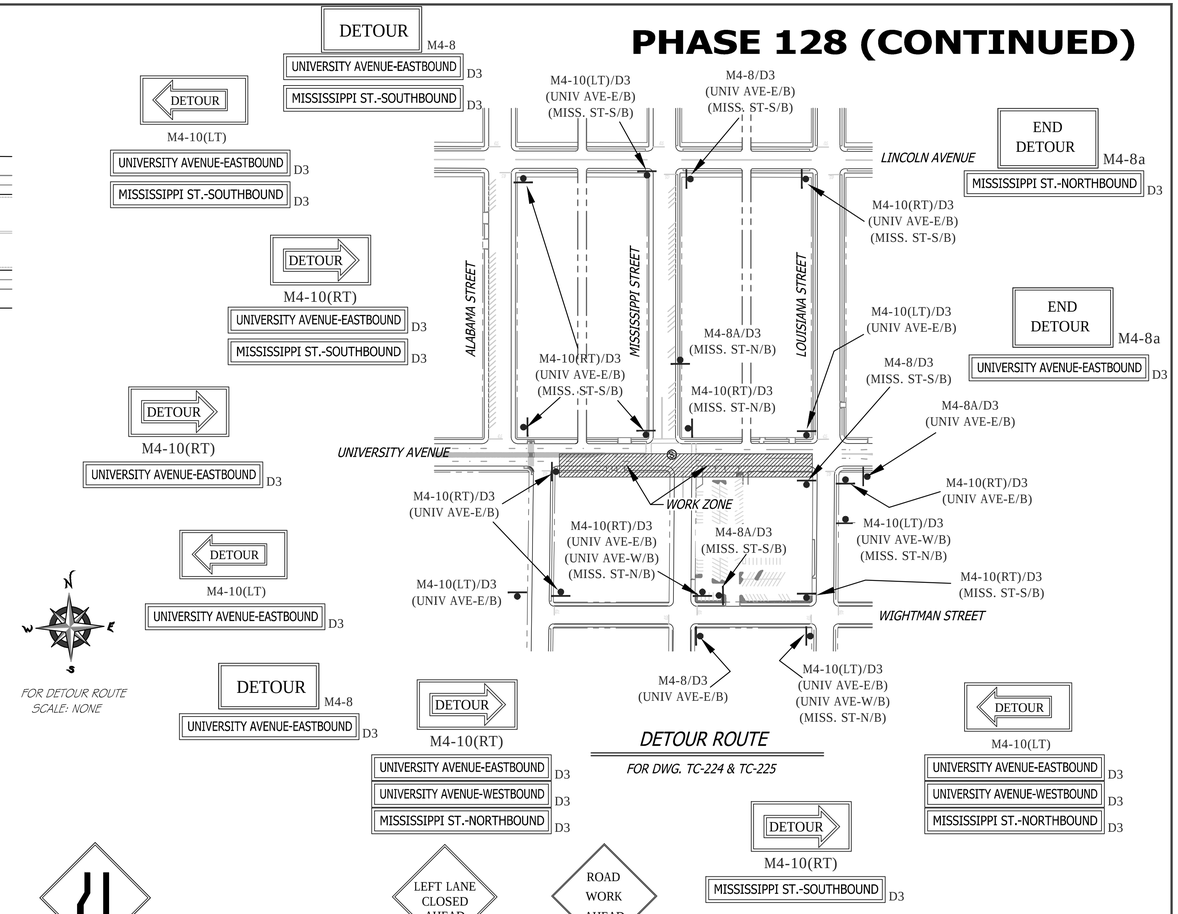
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

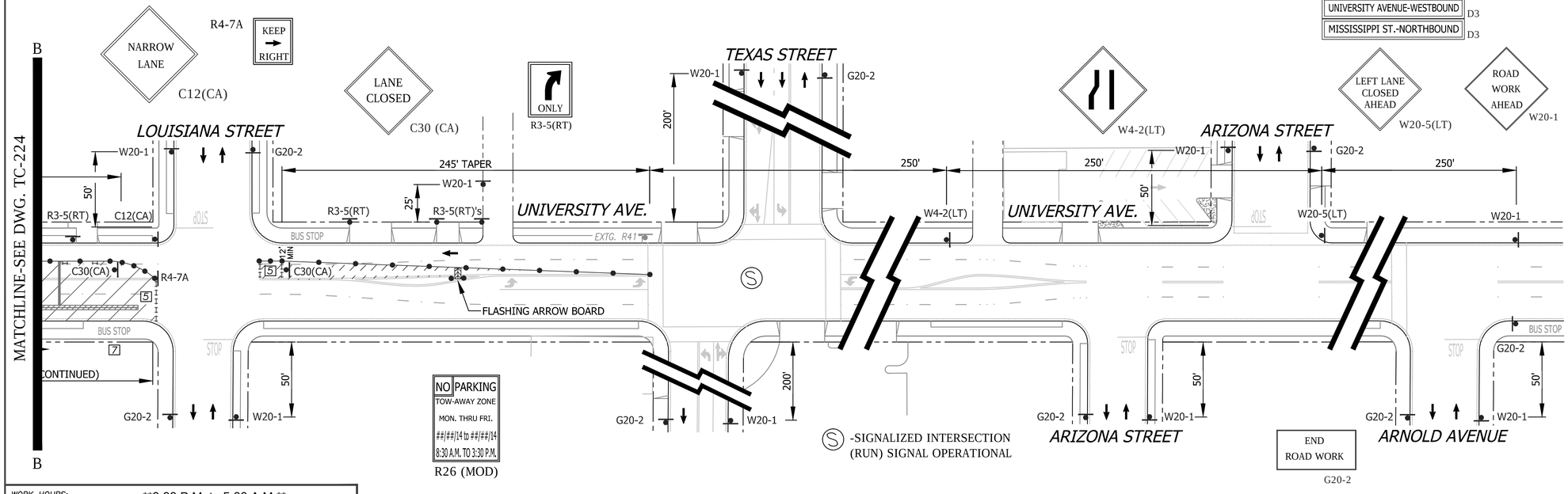
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T224-D







WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

TC-225

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ALABAMA TO LOUISIANA STREET
PHASE 128

CITY OF SAN DIEGO, CALIFORNIA
SHEET 225 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T225-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 129

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

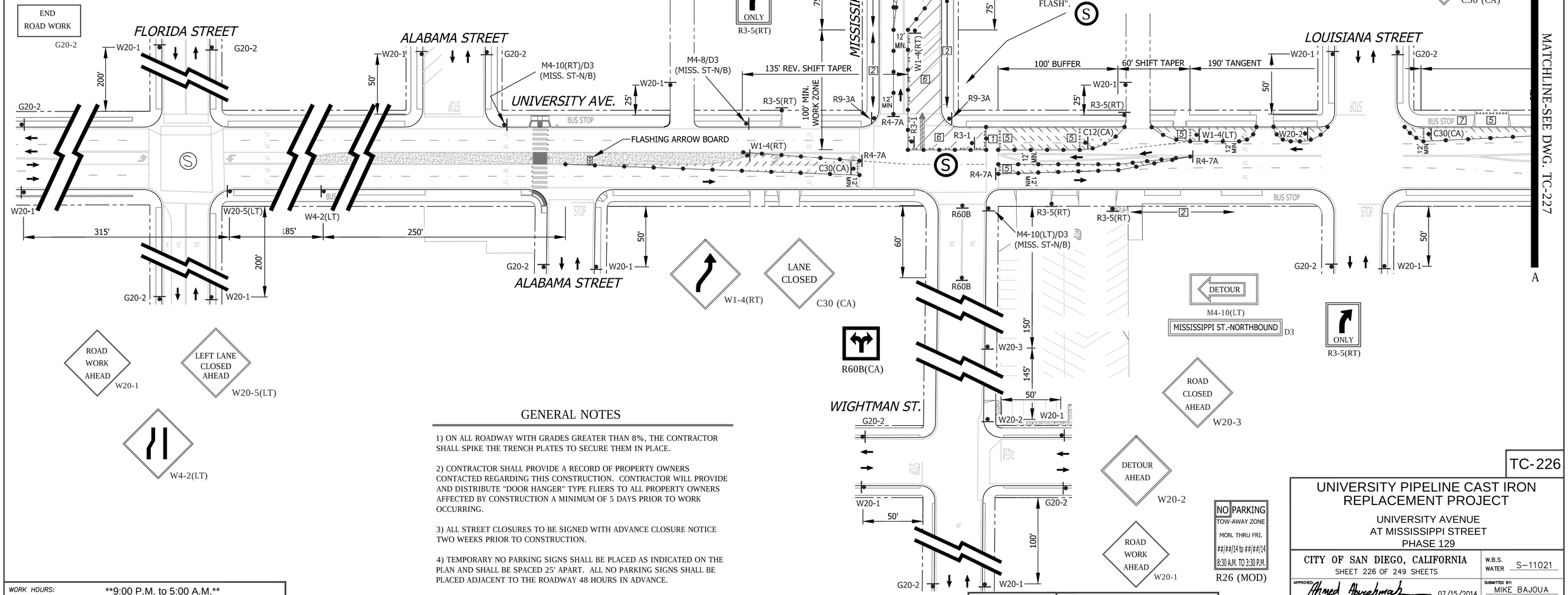
[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI STREET	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-226

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT MISSISSIPPI STREET
PHASE 129

CITY OF SAN DIEGO, CALIFORNIA
SHEET 226 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

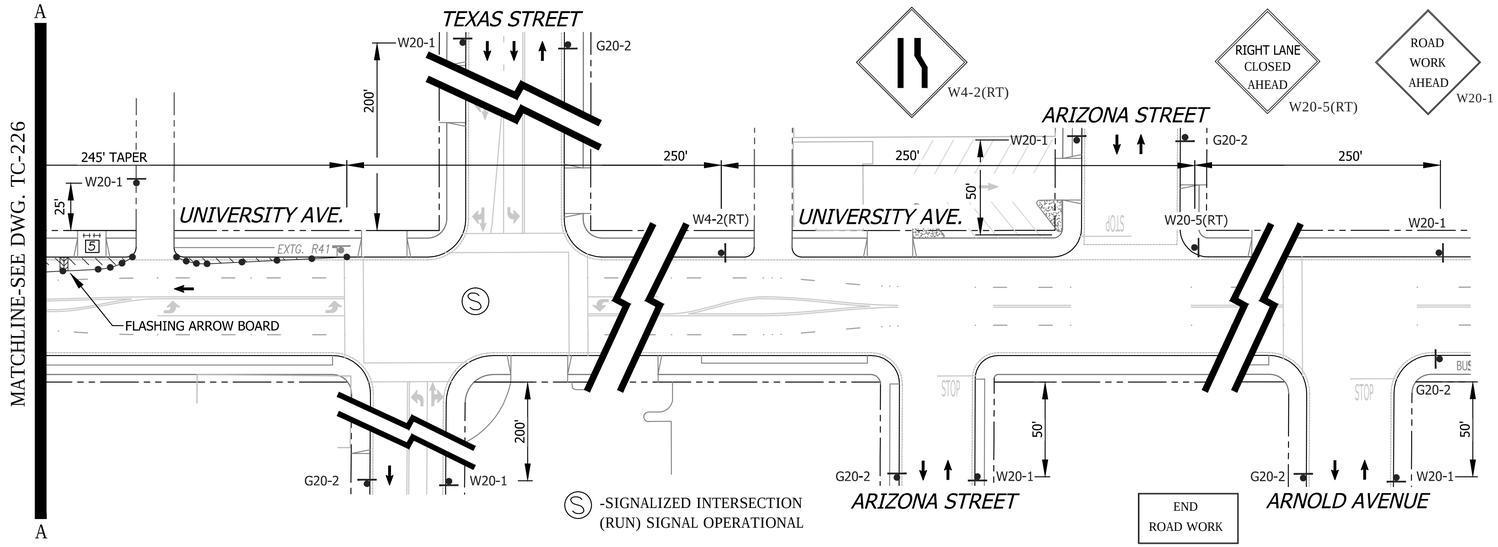
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

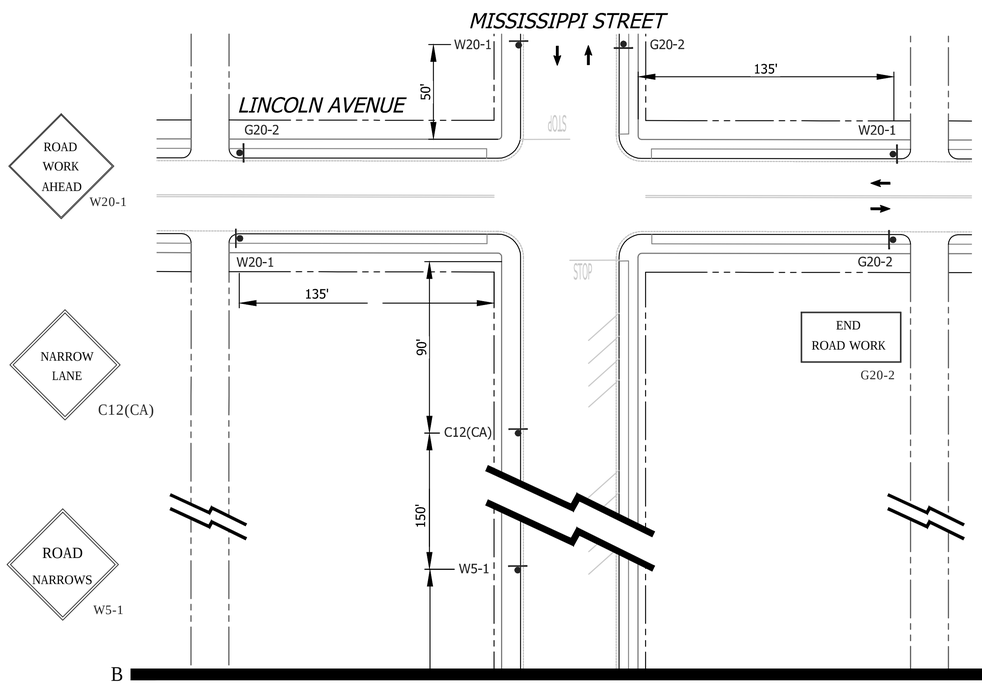
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T226-D

PHASE 129 (CONTINUED)

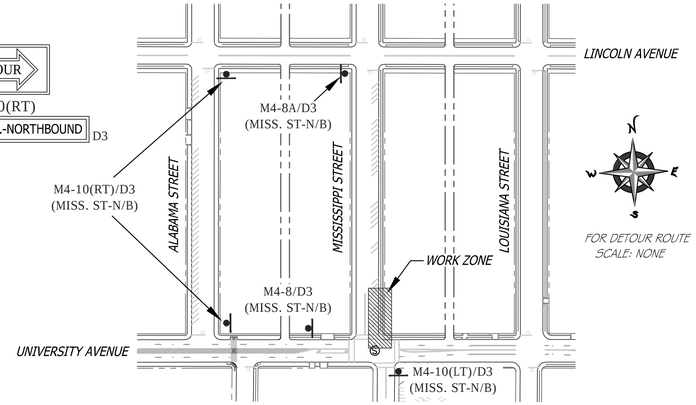




MATCHLINE-SEE DWG. TC-226

END DETOUR M4-8a
MISSISSIPPI ST.-NORTHBOUND D3

DETOUR M4-10(RT)
MISSISSIPPI ST.-NORTHBOUND D3



FOR DETOUR ROUTE
SCALE: NONE

DETOUR M4-8
MISSISSIPPI ST.-NORTHBOUND D3

DETOUR ROUTE
FOR DWG. TC-226 & TC-227

DETOUR M4-10(LT)
MISSISSIPPI ST.-NORTHBOUND D3

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI STREET	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-227

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT MISSISSIPPI STREET
PHASE 129

CITY OF SAN DIEGO, CALIFORNIA
SHEET 227 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

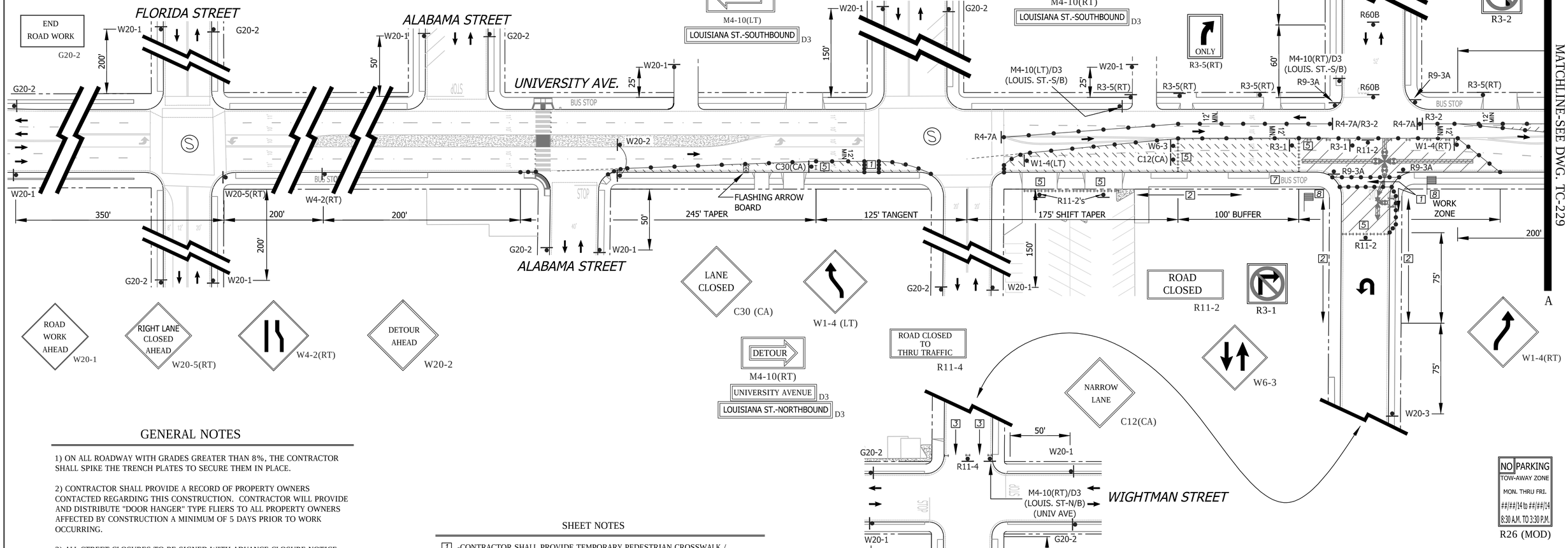
36656-T227-D

PHASE 130

SEE DRAWING TC-229 FOR ACCOMPANYING DETOUR ROUTE

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[8] -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE SOUTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY CLOSE THE TEMPORARY CROSSWALK AND UTILIZE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI/LOUISIANA ST.	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

TC-228

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 130

CITY OF SAN DIEGO, CALIFORNIA
SHEET 228 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T228-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

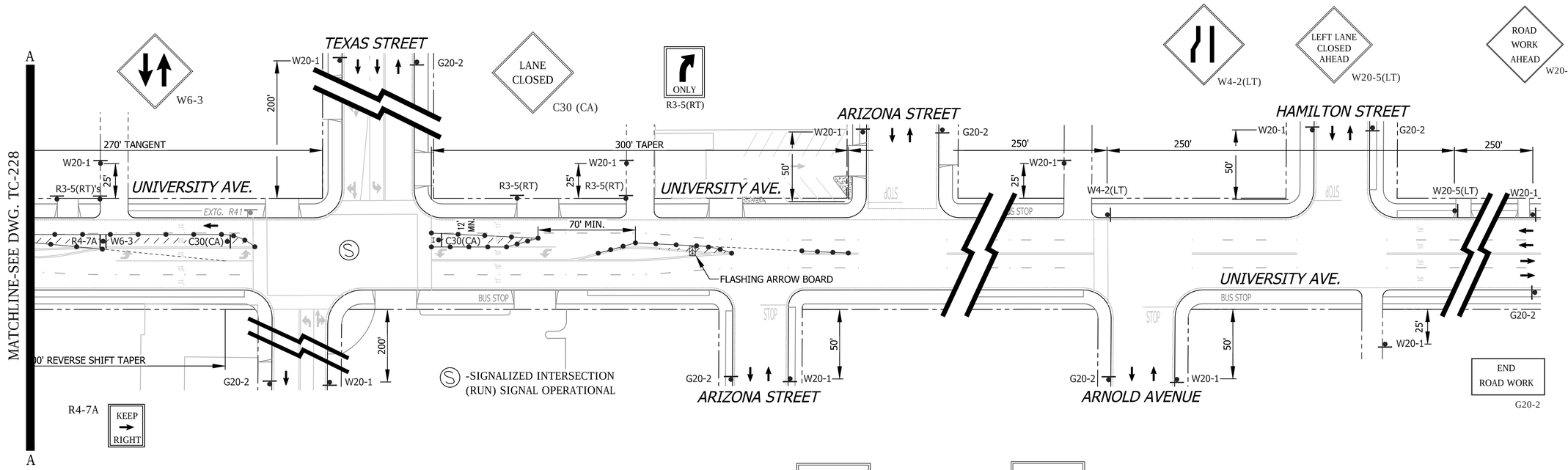
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 130 (CONTINUED)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

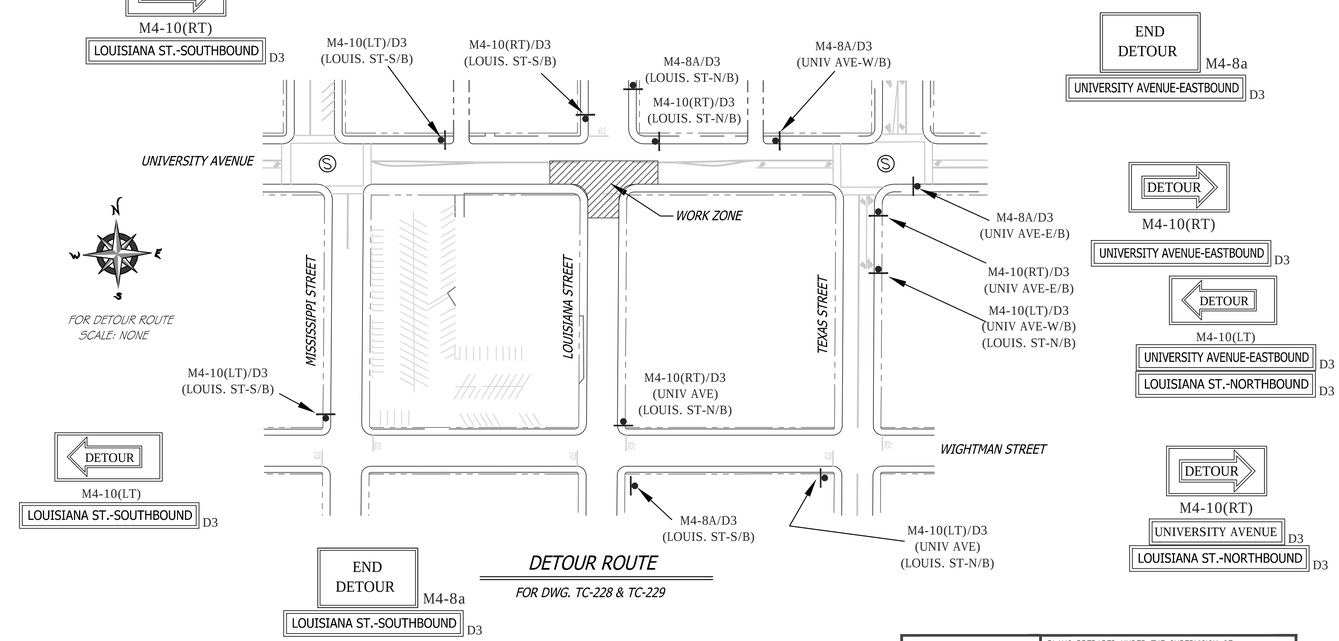
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-228 & TC-229

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-229

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 130

CITY OF SAN DIEGO, CALIFORNIA
SHEET 229 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T229-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

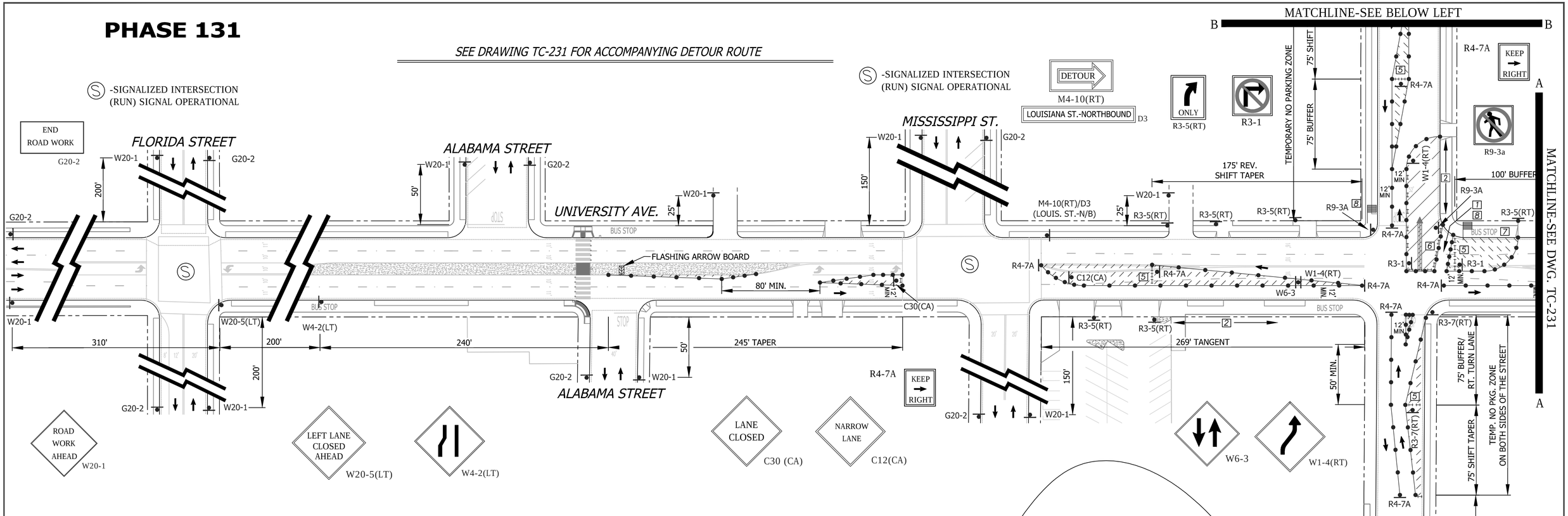
Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

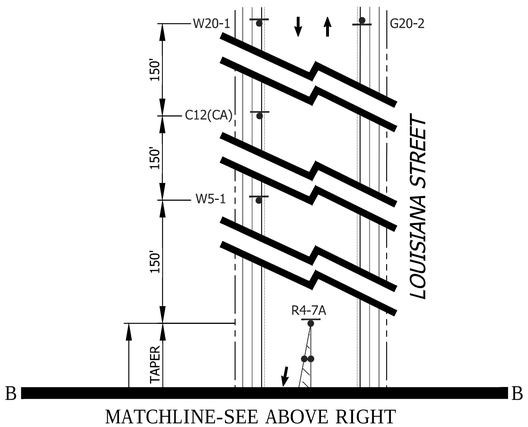
DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 131

SEE DRAWING TC-231 FOR ACCOMPANYING DETOUR ROUTE





SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE NORTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY UTILIZE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT FROM THE NORTWEST CORNER TO THE NORTHEAST CORNER AND VICE VERSA (AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI/LOUISIANA ST.	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-230

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 131

CITY OF SAN DIEGO, CALIFORNIA
SHEET 230 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

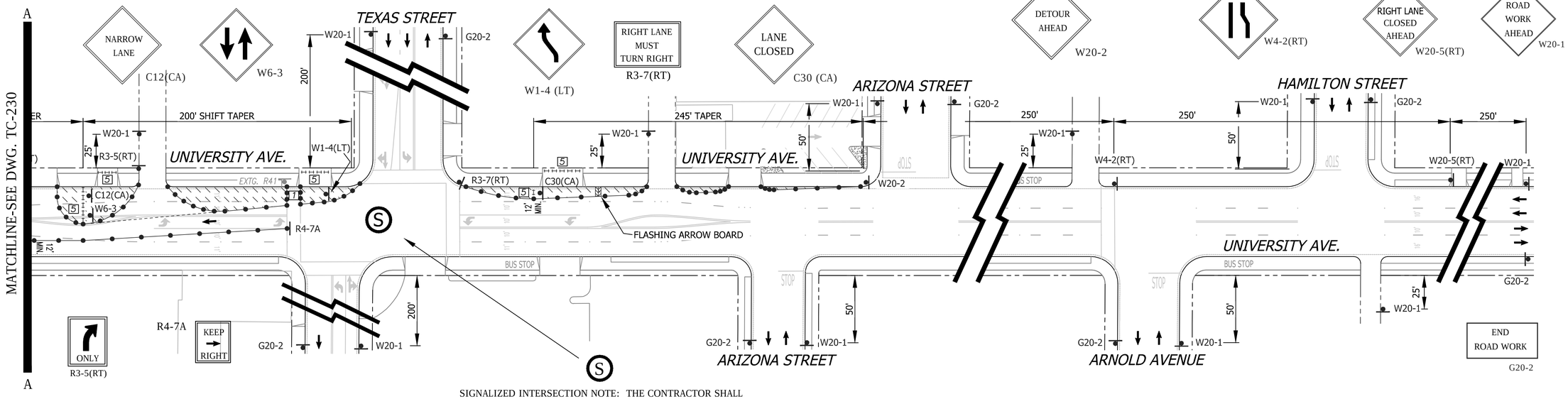
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE

1850444-628047
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T230-D



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

PHASE 131 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

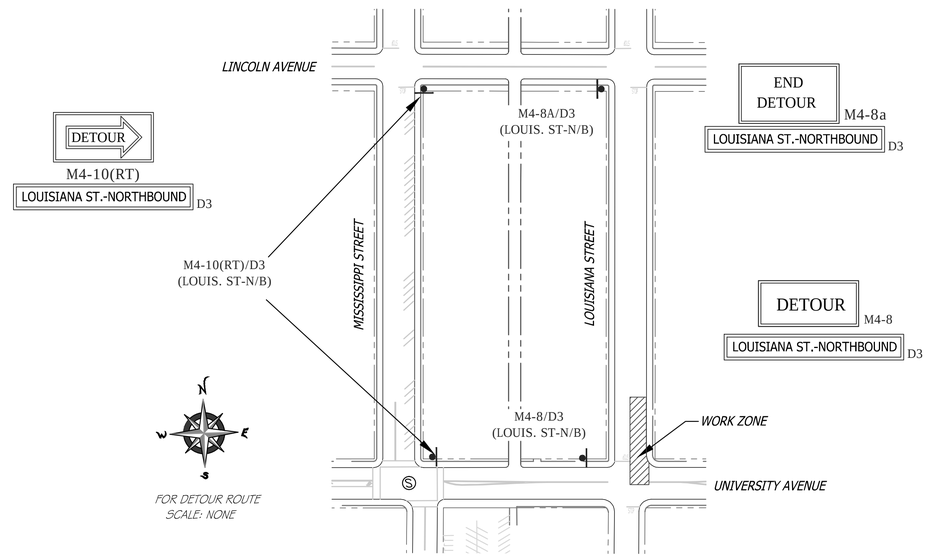
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-230 & TC-231

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE NORTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY UTILIZE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT FROM THE NORTWEST CORNER TO THE NORTHEAST CORNER AND VICE VERSA (AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-231

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 131

CITY OF SAN DIEGO, CALIFORNIA
SHEET 231 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T231-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

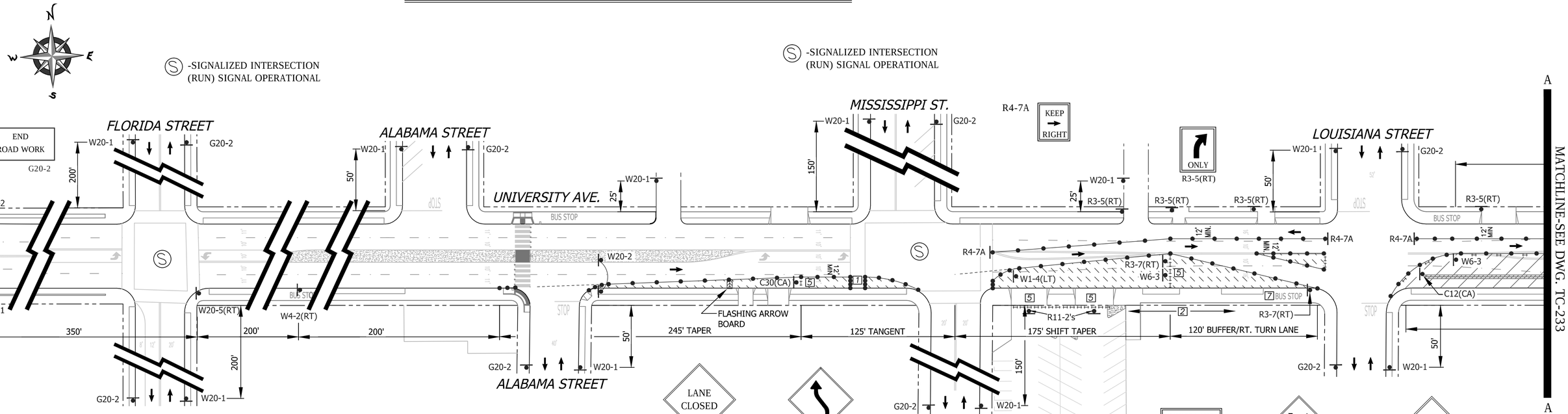
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 132

SEE DRAWING TC-233 FOR ACCOMPANYING DETOUR ROUTE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
ALA./MISS./LOUIS. ST.	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

[7] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-232

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
LOUISIANA STREET TO TEXAS STREET
PHASE 132

CITY OF SAN DIEGO, CALIFORNIA
SHEET 232 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

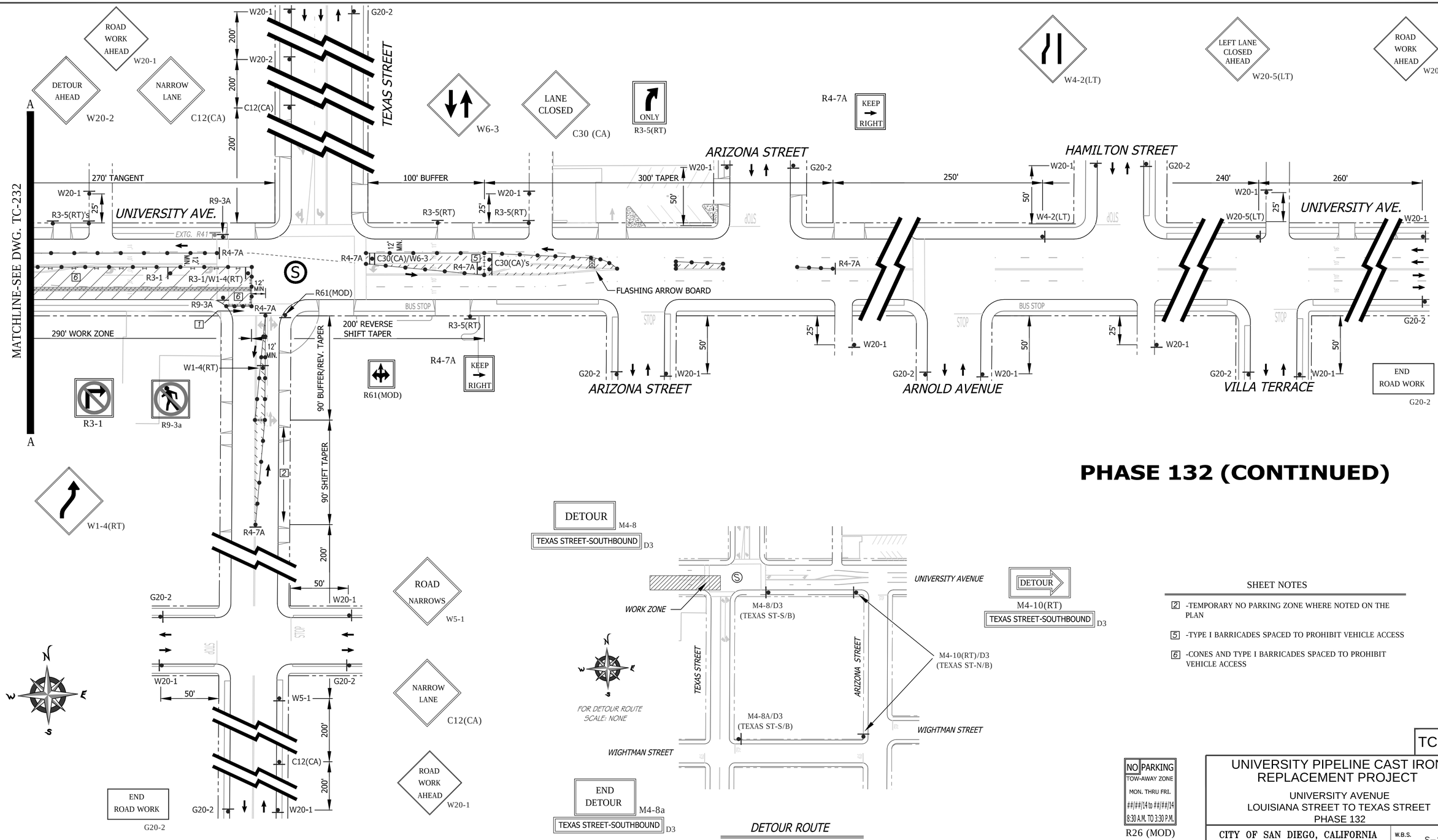
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T232-D

PHASE 132 (CONTINUED)



DETOUR ROUTE

FOR DWG. TC-232 & TC-233

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-233

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
LOUISIANA STREET TO TEXAS STREET
PHASE 132

CITY OF SAN DIEGO, CALIFORNIA
SHEET 233 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

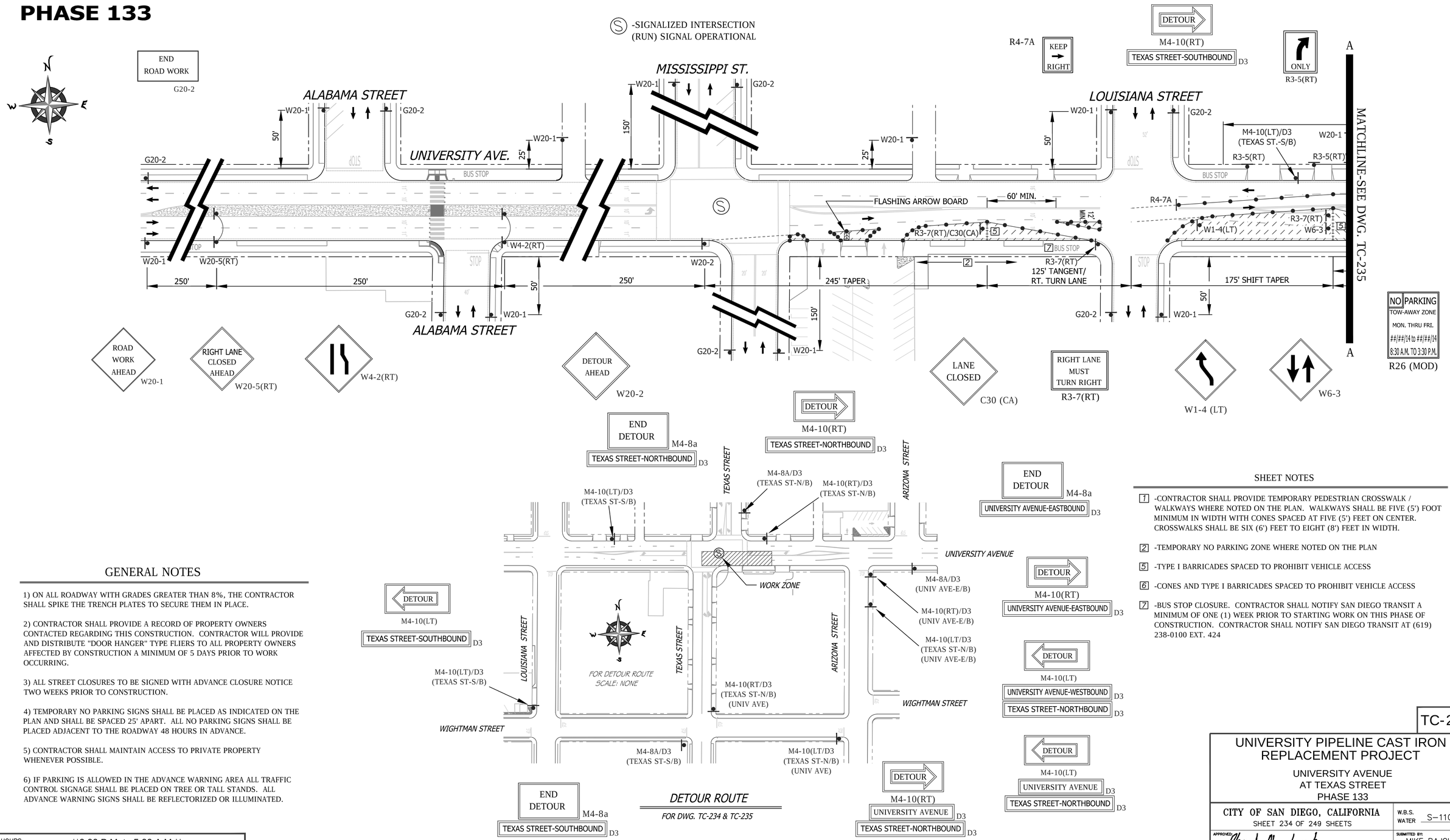
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T233-D

PHASE 133



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALA./LOUIS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

TC-234

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 133

CITY OF SAN DIEGO, CALIFORNIA
SHEET 234 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T234-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 133 (CONTINUED)

SEE DRAWING TC-234 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS INTERSECTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

ROAD WORK AHEAD W20-1 | NARROW LANE C12(CA) | ROAD NARROWS W5-1

W20-1 | G20-2 | R4-7A KEEP RIGHT | 200' | C12(CA) | 200' | W5-1 | 200' | TEXAS STREET | R3-2

W6-3 | ONLY R3-5(RT) | LANE CLOSED C30 (CA) | R4-7A KEEP RIGHT

MATCHLINE-SEE DWG. TC-234

ARIZONA STREET | HAMILTON STREET

270' TANGENT | 100' BUFFER | 245' TAPER | 250'

UNIVERSITY AVE. | R3-5(RT)'s | 25' | EXTG. R41 | 12' MIN. | R4-7A/R3-2 | R3-2 | R4-7A | W6-3 | C30(CA) | W1-4(RT) | R4-7A | FLASHING ARROW BOARD

R3-7(RT) | W6-3 | W1-4(RT) | BUS STOP | 70' MIN. | 125' BUFFER/RT. TURN LANE | R9-3A | R3-5(RT) | 190' REVERSE SHIFT TAPER | R3-5(LT) | R11-2 | 160' WORK ZONE | R5-1/R5-1A | R9-3a

ARIZONA STREET | ARNOLD AVENUE

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

RIGHT LANE MUST TURN RIGHT R3-7(RT) | 100' | R3-5(RT) | R3-5(LT) | 145' | W20-3 | R3-5(RT) | R3-5(LT) | R3-5(RT) | R3-5(LT)

ROAD CLOSED R11-2 | W1-4(RT) | DETOUR M4-10(RT) UNIVERSITY AVENUE D3 TEXAS STREET-NORTHBOUND D3

ONLY R3-5(RT) | DO NOT ENTER R5-1 | WRONG WAY R5-1A | ROAD CLOSED TO THRU TRAFFIC R11-4 | ONLY R3-5(LT)

MATCHLINE-SEE ABOVE RIGHT

MATCHLINE-SEE ABOVE RIGHT

WIGHTMAN ST. | R11-4 | 50' | M4-10(RT)/D3 (TEXAS ST-N/B) (UNIV AVE) | TEXAS STREET | 200' | 200' | 200' | W20-3 | W20-2 | W20-1

END ROAD WORK G20-2 | ROAD CLOSED AHEAD W20-3 | ROAD WORK AHEAD W20-1 | DETOUR AHEAD W20-2

MATCHLINE-SEE ABOVE RIGHT

W4-2(LT) | OREGON STREET | LEFT LANE CLOSED AHEAD W20-5(LT) | ROAD WORK AHEAD W20-1

250' | 50' | 25' | W20-1 | W4-2(LT) | W20-5(LT) | UNIVERSITY AVE. | BUS STOP | PARK ROAD

END ROAD WORK G20-2 | VILLA TERRACE | PERSHING AVENUE

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 133

CITY OF SAN DIEGO, CALIFORNIA
SHEET 235 OF 249 SHEETS

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

W.B.S.
WATER S-11021

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

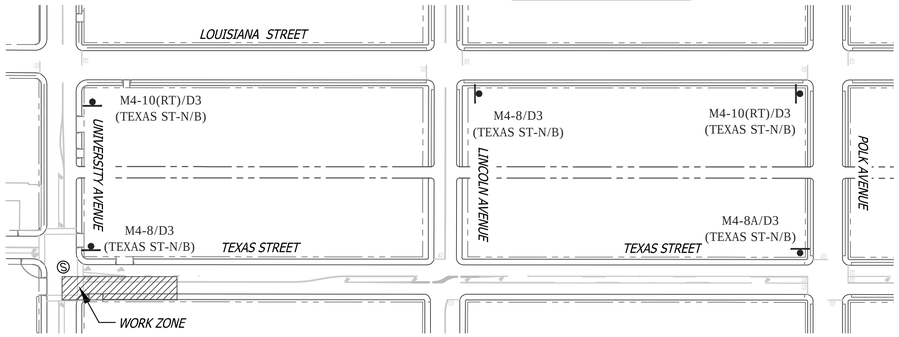
210-1725
CCS27 COORDINATE

1850444-628047
CCS83 COORDINATE

36656-T235-D

TC-235

PHASE 134



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-236 & TC-237

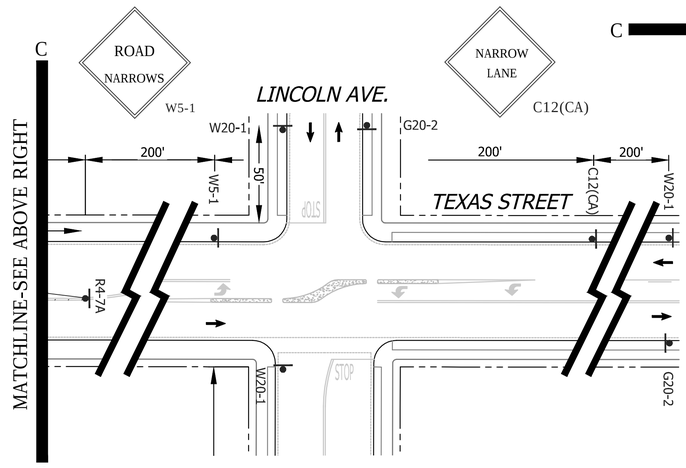
Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

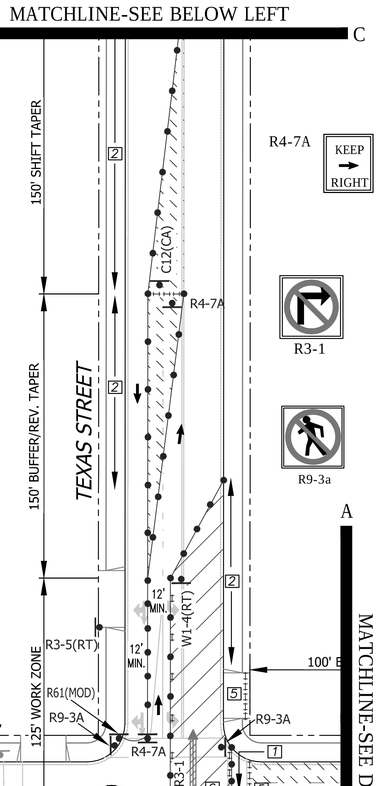
DETOUR M4-8
TEXAS STREET-NORTHBOUND D3

DETOUR M4-10(RT)
TEXAS STREET-NORTHBOUND D3

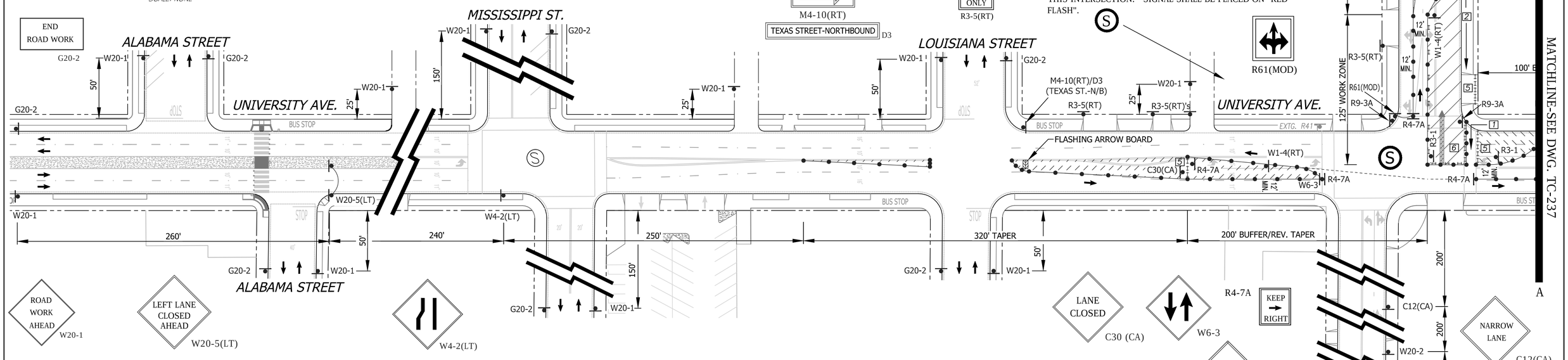
FOR MATCHLINE "C"
SCALE: 1" = 40'

END DETOUR M4-8a
TEXAS STREET-NORTHBOUND D3





SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS INTERSECTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	SEE DWG.		200 FT.	25 FT
ALA./LOUIS./MISS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-236

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 134

CITY OF SAN DIEGO, CALIFORNIA
SHEET 236 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

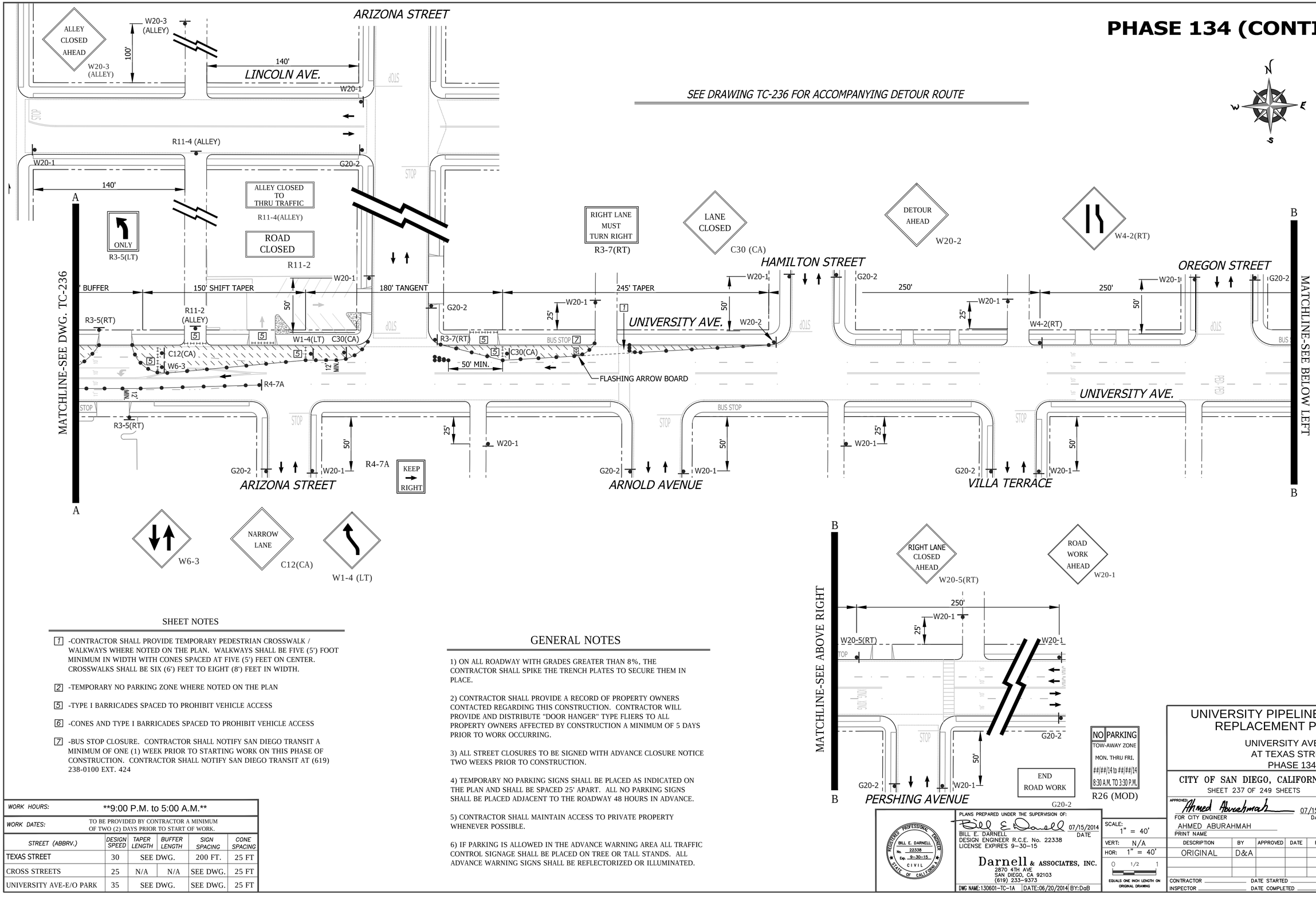
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-62804
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T236-D

PHASE 134 (CONTINUED)



SHEET NOTES

[7] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	SEE DWG.		200 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-237

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 134

CITY OF SAN DIEGO, CALIFORNIA
SHEET 237 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

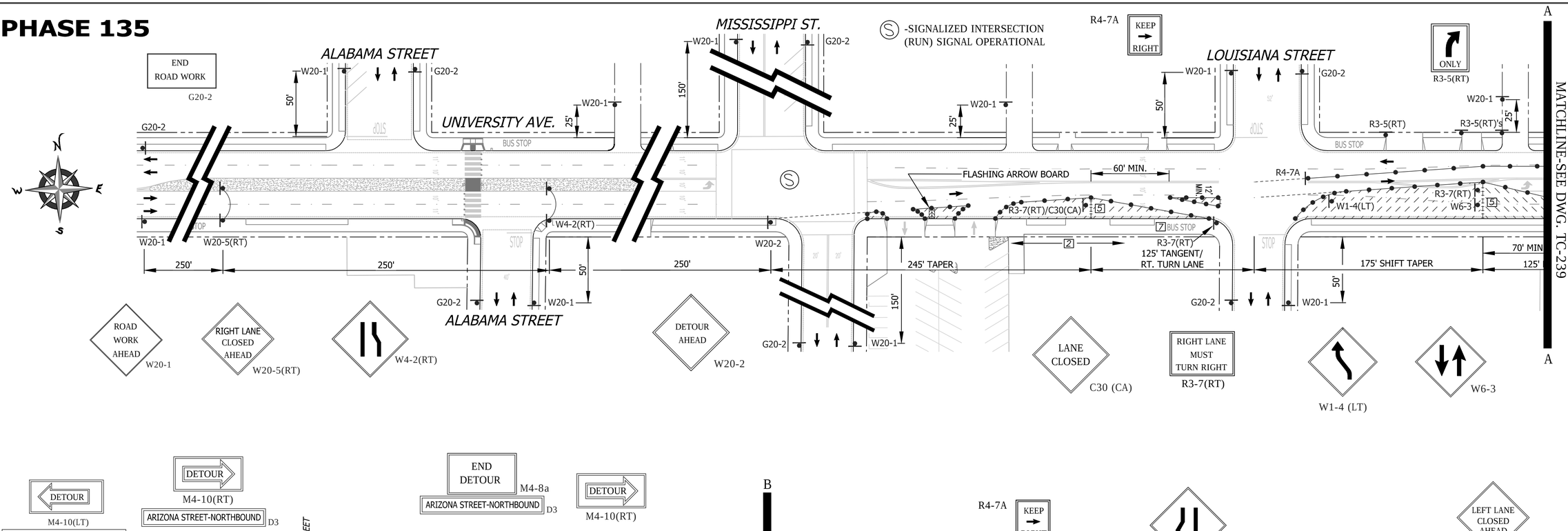
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

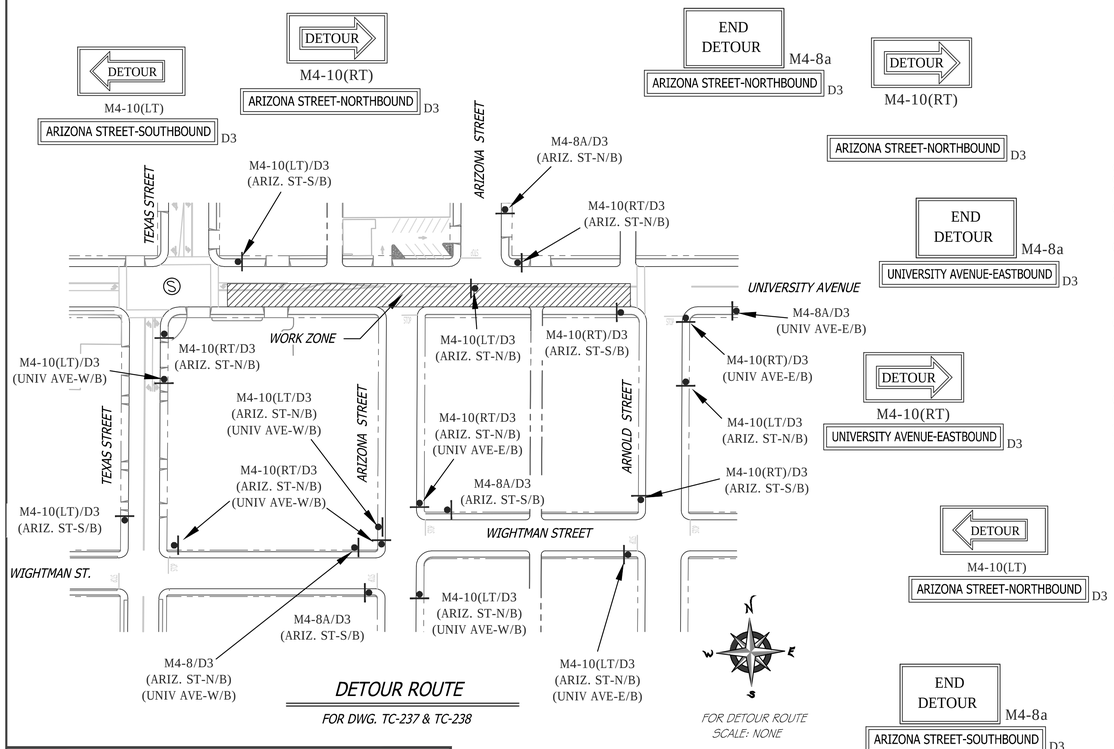
210-1725
CCS27 COORDINATE
1850444-62804
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T237-D

PHASE 135

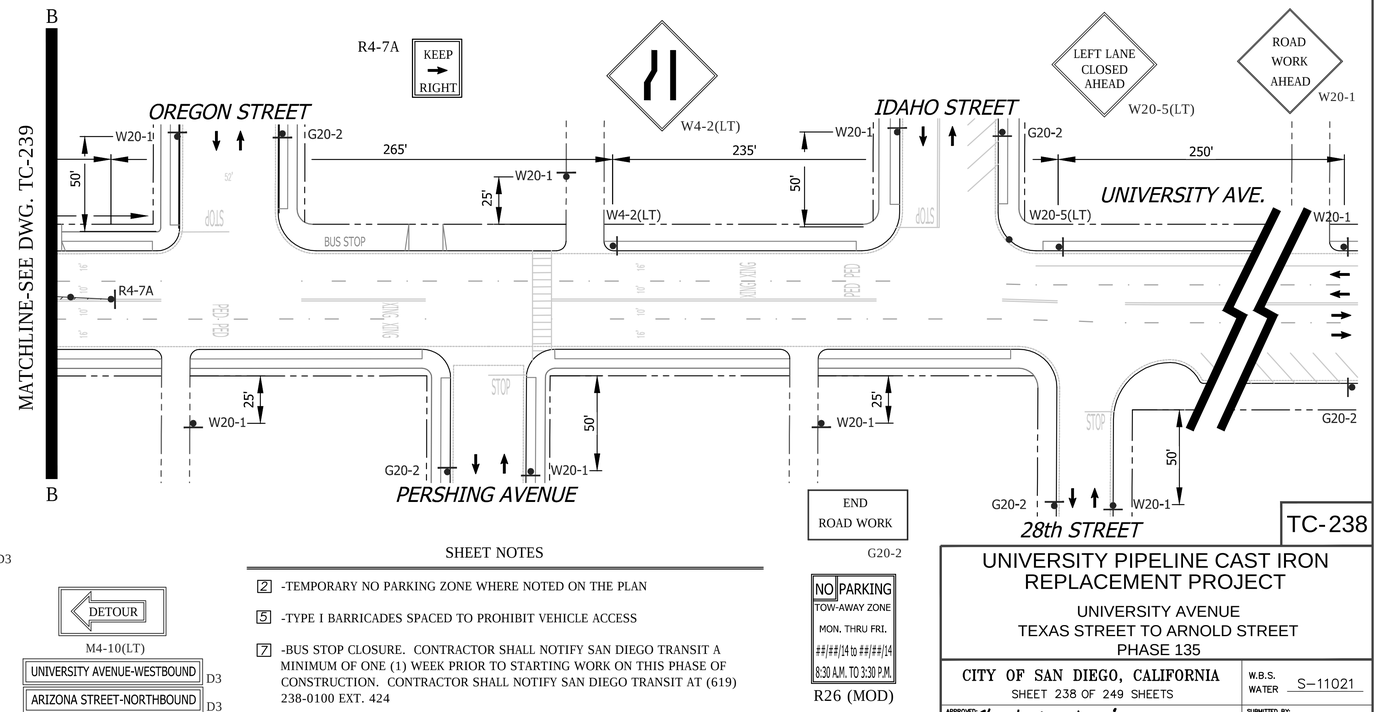




DETOUR ROUTE

FOR DWG. TC-237 & TC-238

FOR DETOUR ROUTE SCALE: NONE



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALA./LOUIS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E. Darnell 07/15/2014

BILL E. DARNELL DATE

DESIGN ENGINEER R.C.E. No. 22338

LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/21/2014 | BY: DaB

SCALE: 1" = 40'

VERT: N/A

HOR: 1" = 40'

0 1/2 1

EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TEXAS STREET TO ARNOLD STREET
PHASE 135

CITY OF SAN DIEGO, CALIFORNIA
SHEET 238 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725 CCS27 COORDINATE

1850444-628047 CCS83 COORDINATE

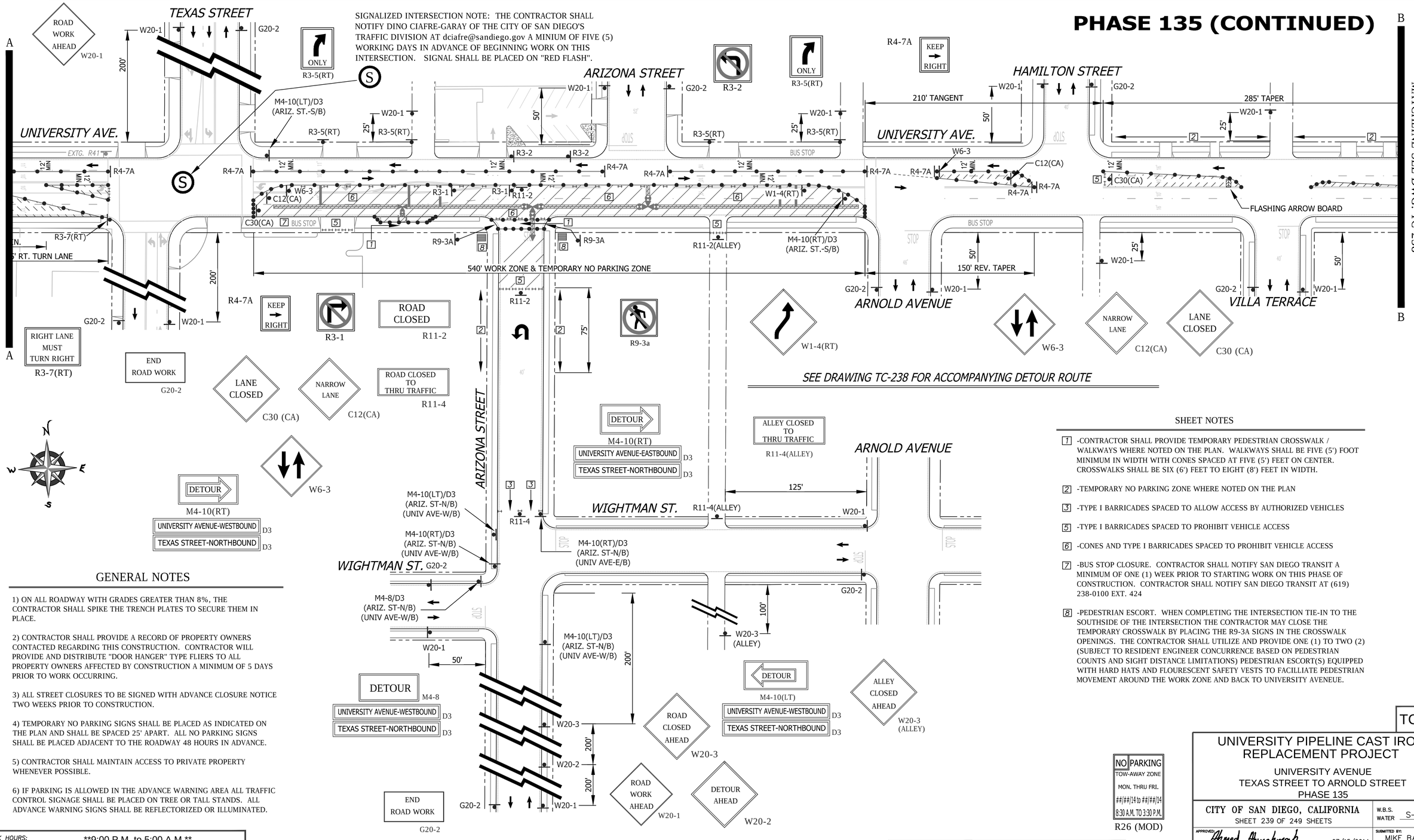
CONTRACTOR _____ DATE STARTED _____

INSPECTOR _____ DATE COMPLETED _____

TC-238

36656-T238-D

PHASE 135 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS INTERSECTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SEE DRAWING TC-238 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

SHEET NOTES

[7] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[8] -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE SOUTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY CLOSE THE TEMPORARY CROSSWALK BY PLACING THE R9-3A SIGNS IN THE CROSSWALK OPENINGS. THE CONTRACTOR SHALL UTILIZE AND PROVIDE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-239

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TEXAS STREET TO ARNOLD STREET
PHASE 135

CITY OF SAN DIEGO, CALIFORNIA
SHEET 239 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T239-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

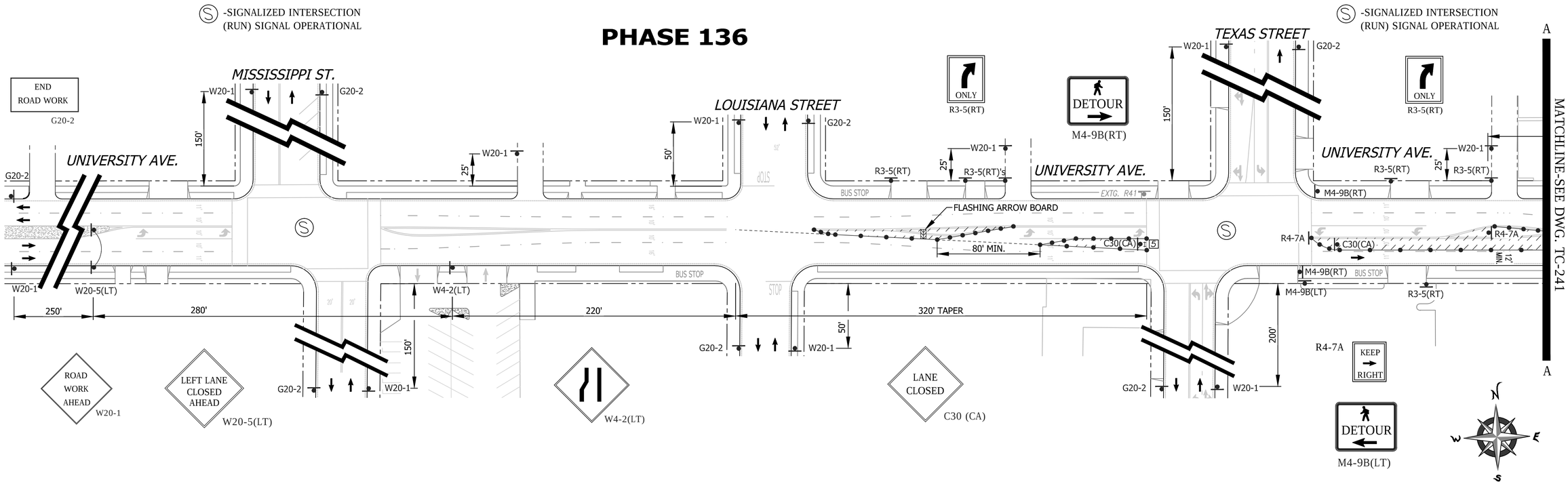
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

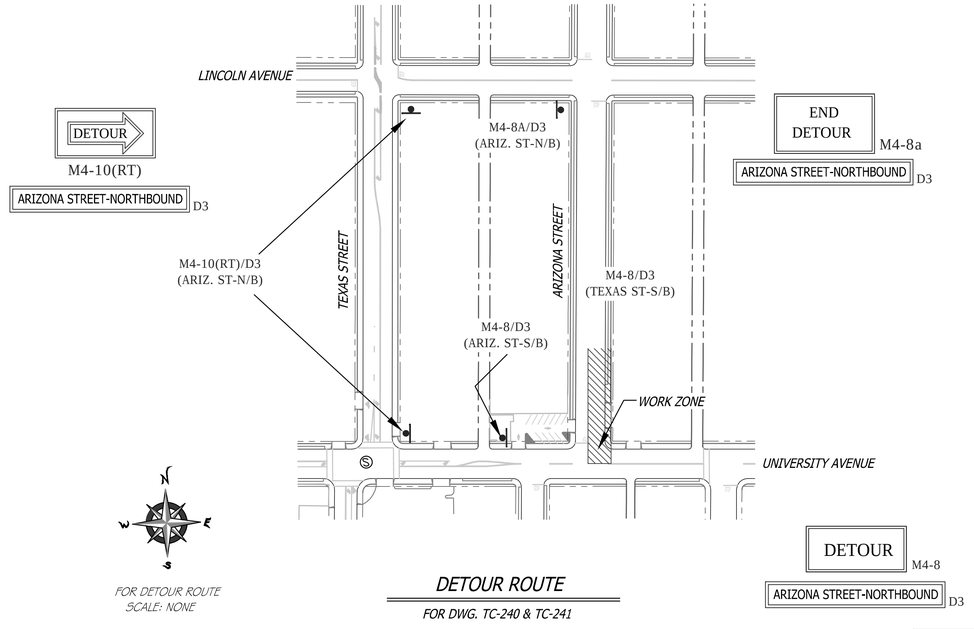
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 136





FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-240 & TC-241

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ALA./LOUIS./MISS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

TC-240

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ARIZONA STREET
PHASE 136

CITY OF SAN DIEGO, CALIFORNIA
SHEET 240 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T240-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

SCALE:
1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 136 (CONTINUED)

SEE DRAWING TC-240 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

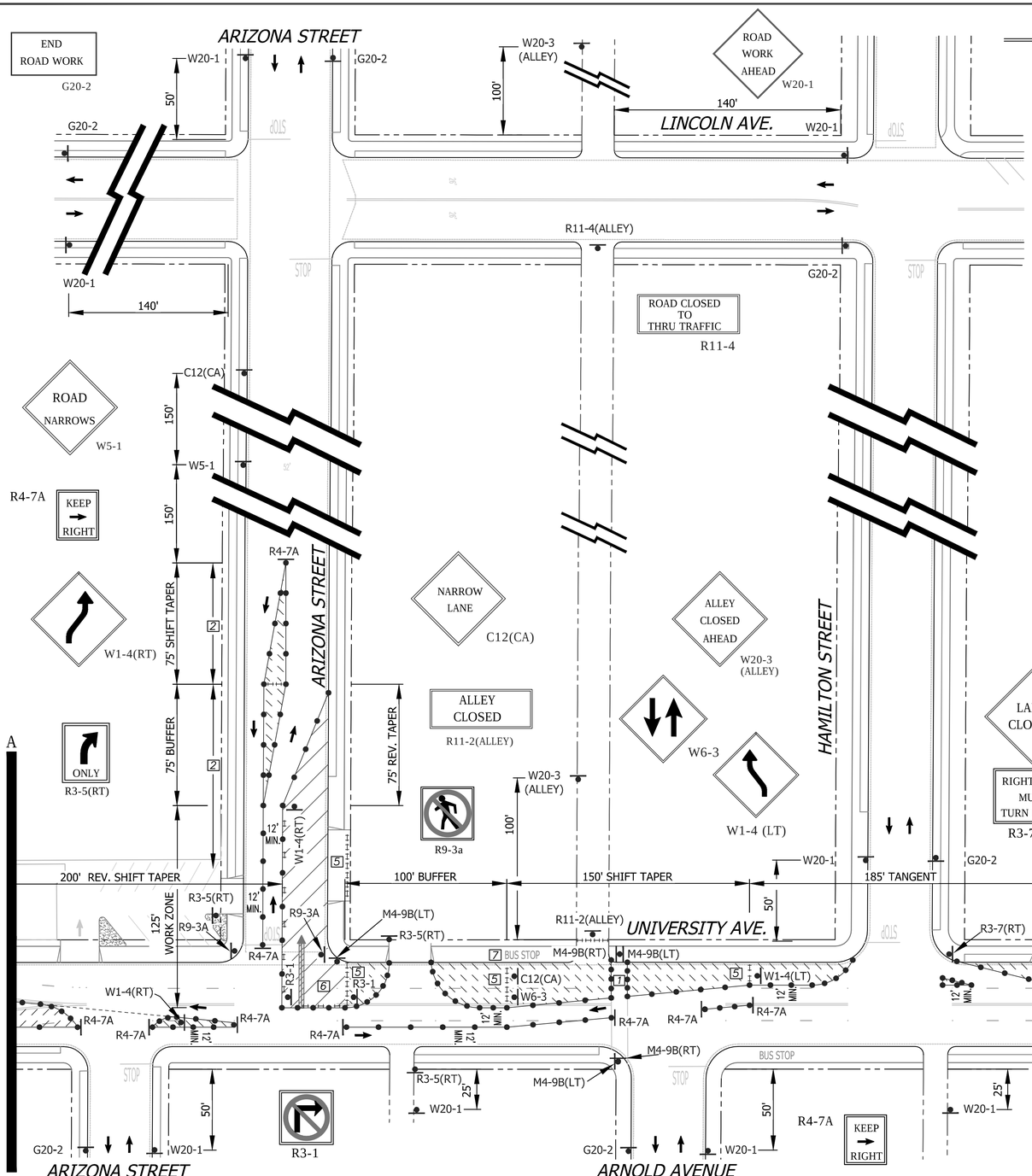
1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

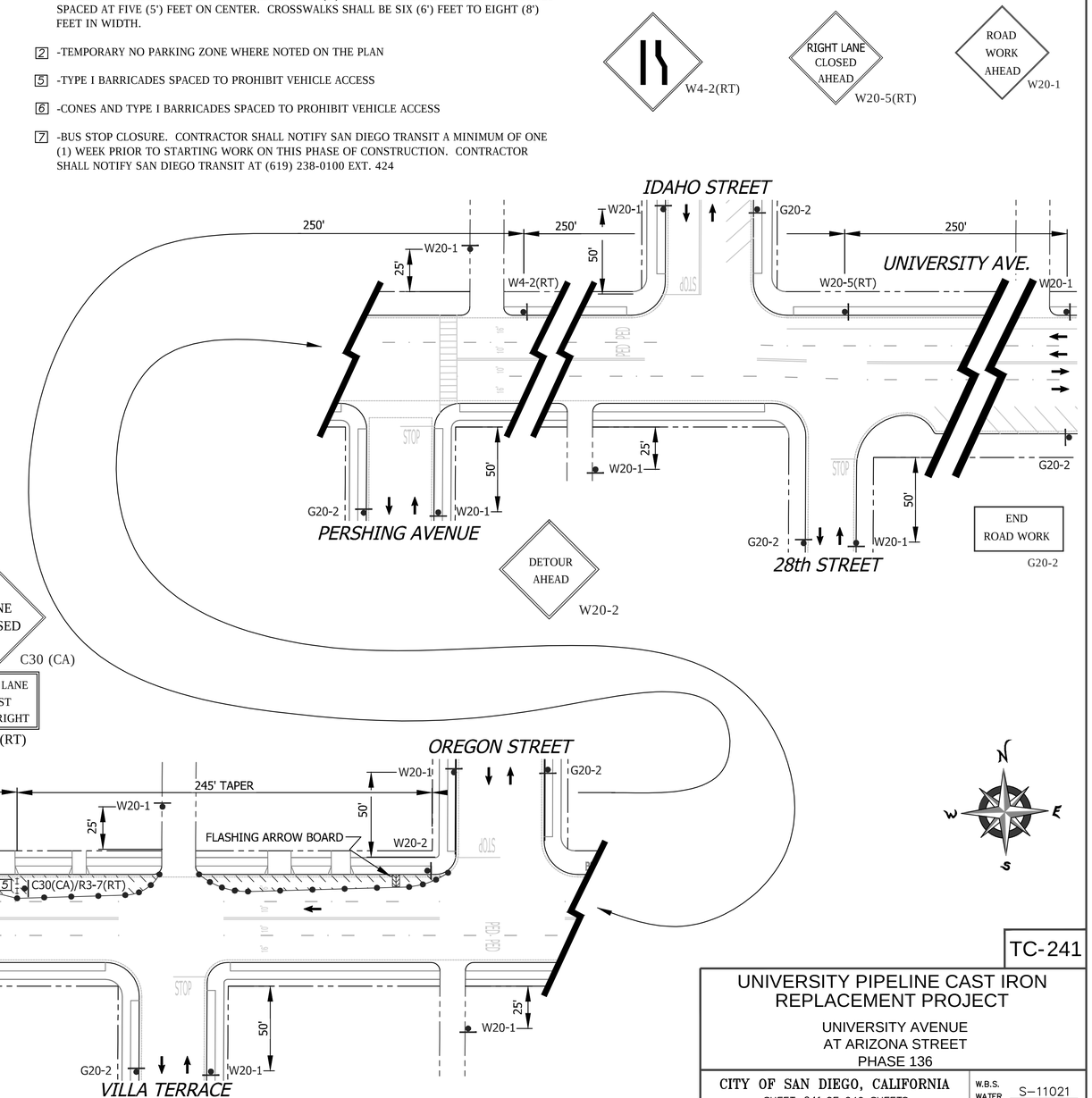
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424





WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARIZONA STREET	25	SEE DWG.		150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

DETOUR
M4-9B(LT)

DETOUR
M4-9B(RT)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-241

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ARIZONA STREET
PHASE 136

CITY OF SAN DIEGO, CALIFORNIA
SHEET 241 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

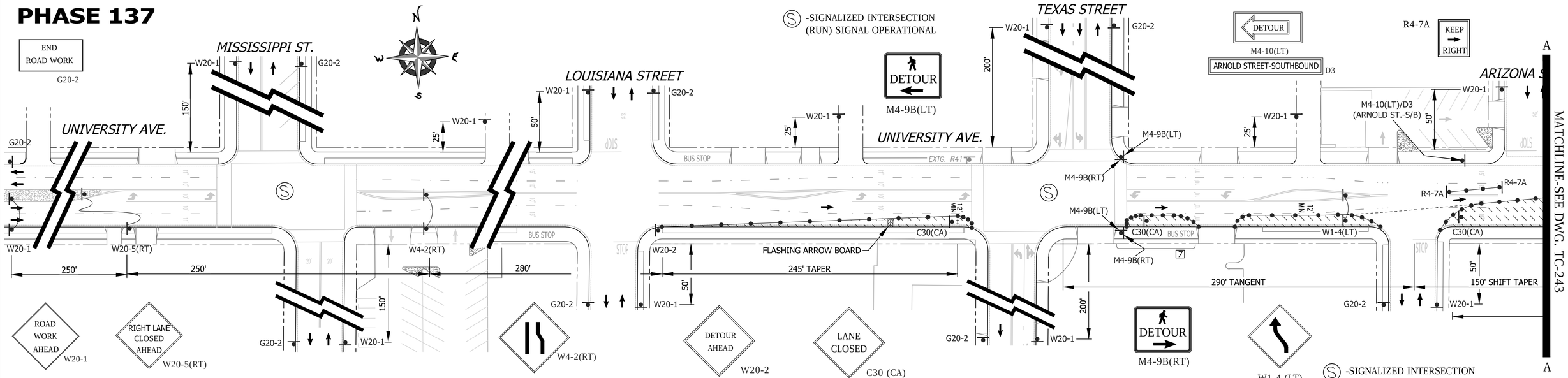
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

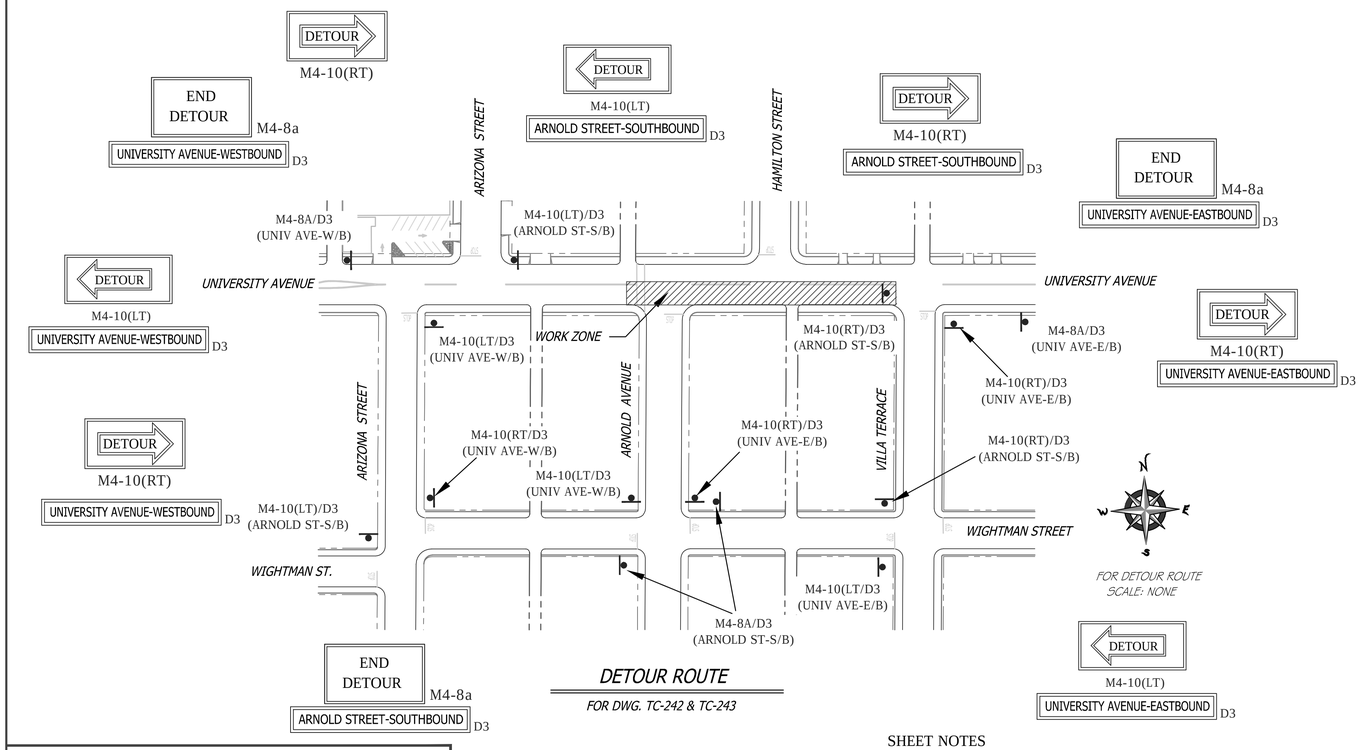
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

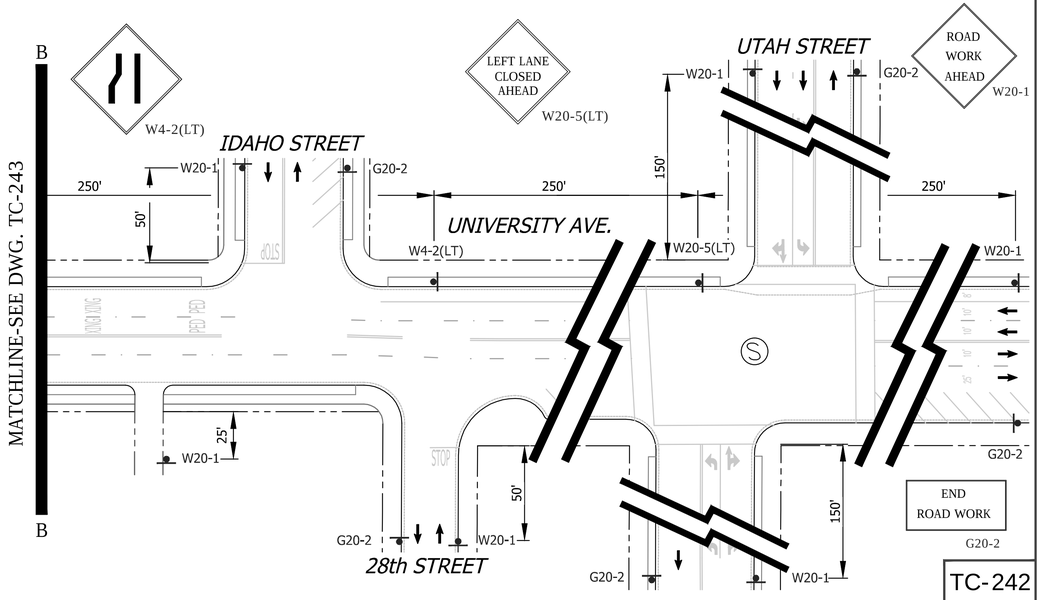
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T241-D

PHASE 137







WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
MISS. / UTAH STREET	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-242

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ARNOLD AVENUE TO VILLA TERRACE
PHASE 137

CITY OF SAN DIEGO, CALIFORNIA
SHEET 242 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME
DATE

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

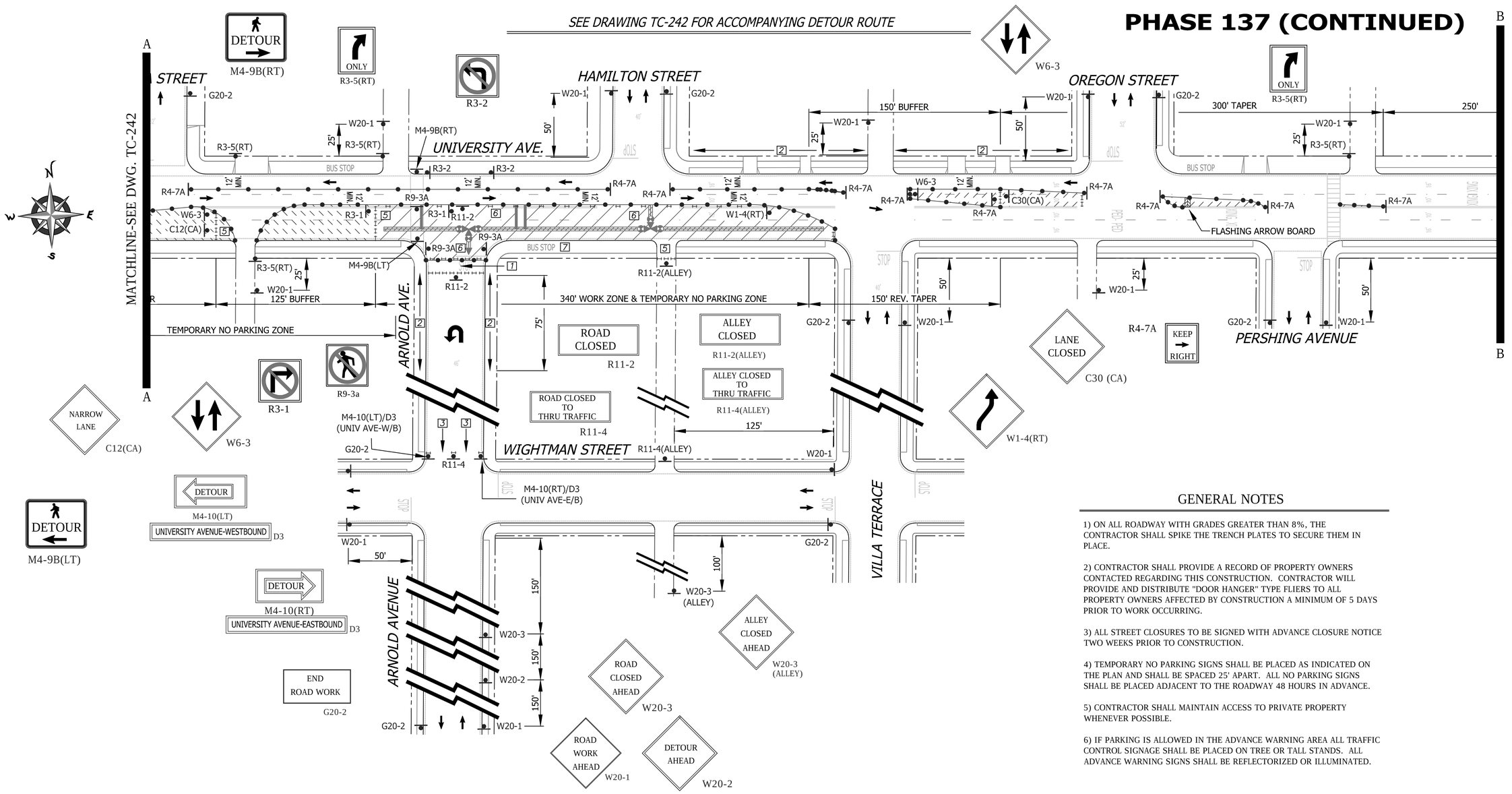
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T242-D

PHASE 137 (CONTINUED)

SEE DRAWING TC-242 FOR ACCOMPANYING DETOUR ROUTE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARNOLD AVENUE	25	N/A	N/A	SEE DWG.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-243

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ARNOLD AVENUE TO VILLA TERRACE
PHASE 137

CITY OF SAN DIEGO, CALIFORNIA
SHEET 243 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T243-D

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 — DATE
LICENSE EXPIRES 9-30-15

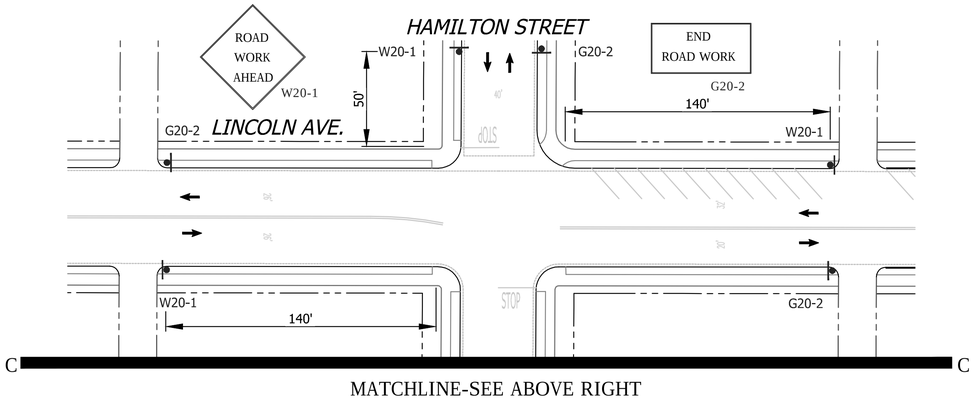
Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 138

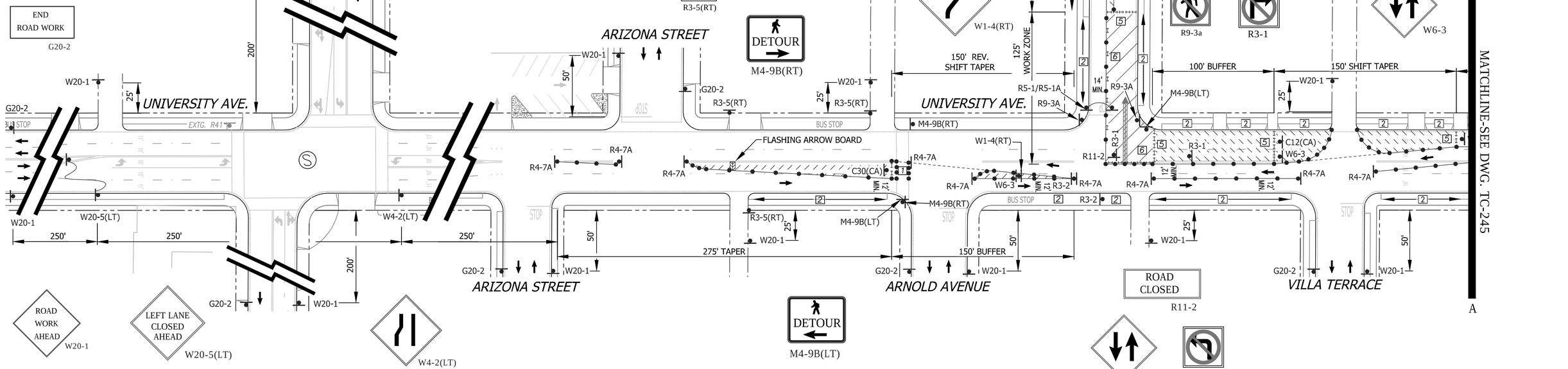


MATCHLINE-SEE ABOVE RIGHT

MATCHLINE-SEE BELOW LEFT

SEE DRAWING TC-245 FOR ACCOMPANYING DETOUR ROUTE

Ⓢ -SIGNALIZED INTERSECTION
(RUN) SIGNAL OPERATIONAL



SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
HAMILTON STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-244

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT HAMILTON STREET
PHASE 138

CITY OF SAN DIEGO, CALIFORNIA
SHEET 244 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

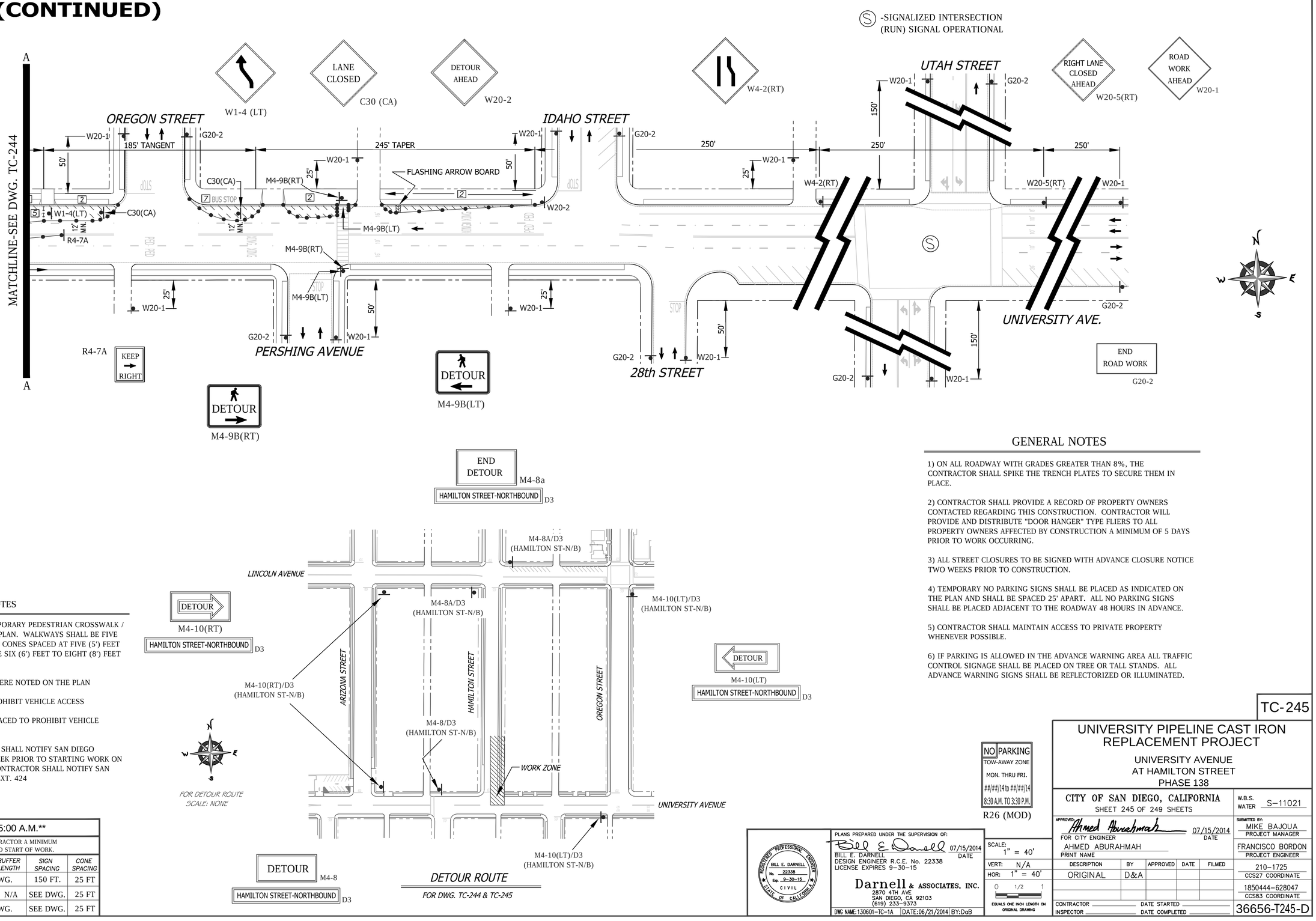
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T244-D

PHASE 138 (CONTINUED)



SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARIZONA STREET	25	SEE DWG.		150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-244 & TC-245

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-245

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT HAMILTON STREET
PHASE 138

CITY OF SAN DIEGO, CALIFORNIA
SHEET 245 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE
36656-T245-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 139

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

TEXAS STREET
ARIZONA STREET
UNIVERSITY AVE.
HAMILTON STREET
OREGON STREET
ARNOLD AVENUE
WIGHTMAN STREET
ALLEY CLOSED
SIDEWALK CLOSED
ALLEY CLOSED TO THRU TRAFFIC
ROAD CLOSED TO THRU TRAFFIC
365' WORK ZONE
250' 285' 215' 245' TAPER 125' TANGENT 150' SHIFT TAPER 100' BUFFER 125'
200' 50' 25' 75' 100' 150'
60' MIN.
FLASHING ARROW BOARD
BUS STOP
STOP
MATCHLINE-SEE DWG. TC-247

CONTRACTOR MAY ALTERNATELY CLOSE CROSSWALK OR THE SIDEWALK (ONE AT A TIME) TO ACCOMPLISH INTERSECTION TIE-IN & SIDEWALK SERVICE LATERALS (EXAMPLE SHOWN)

SHEET NOTES

1. -TEMPORARY PEDESTRIAN WALKWAY / CROSSWALK. CONTRACTOR SHALL PROVIDE A TEMPORARY CROSSWALK WHERE NOTED ON THE PLAN. CROSSWALK SHALL BE SIX (6') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
7. -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424
8. -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE SOUTHSIDE OF THE INTERSECTION OR THE SERVICE LATERALS THRU THE SIDEWALK ON THE SOUTHSIDE OF THE STREET, THE CONTRACTOR MAY CLOSE THE TEMPORARY CROSSWALK BY PLACING THE R9-3A SIGNS IN THE CROSSWALK OPENINGS. THE CONTRACTOR SHALL UTILIZE AND PROVIDE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

DETOUR ROUTE

FOR DWG. TC-246 & TC-247

FOR DETOUR ROUTE SCALE: NONE

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-246

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
VILLA TERRACE TO OREGON STREET
PHASE 139

CITY OF SAN DIEGO, CALIFORNIA
SHEET 246 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

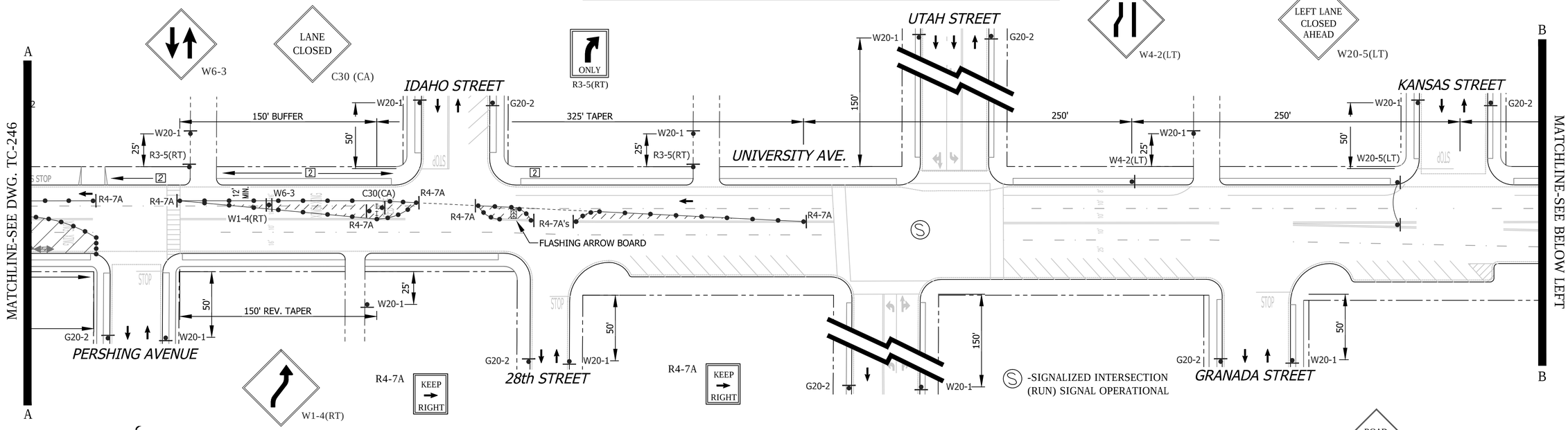
SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER
210-1725 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE
36656-T246-D

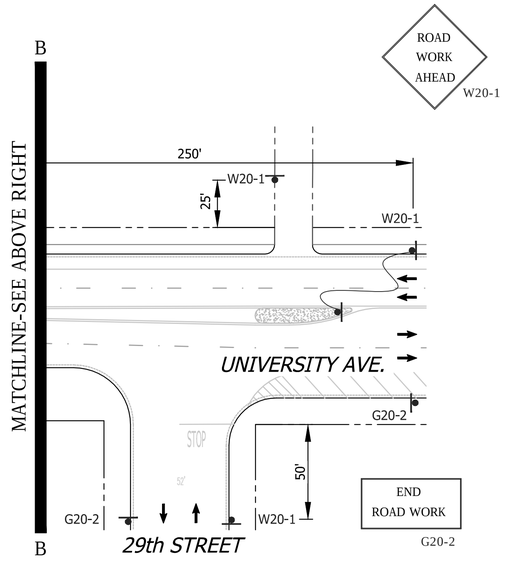
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 139 (CONTINUED)

SEE DRAWING TC-246 FOR ACCOMPANYING DETOUR ROUTE





SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UTAH STREET	25	N/A	N/A	150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-247

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
VILLA TERRACE TO OREGON STREET
PHASE 139

CITY OF SAN DIEGO, CALIFORNIA
SHEET 247 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

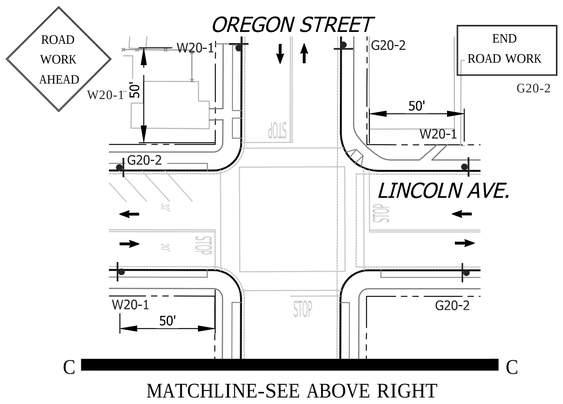
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T247-D

PHASE 140



SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

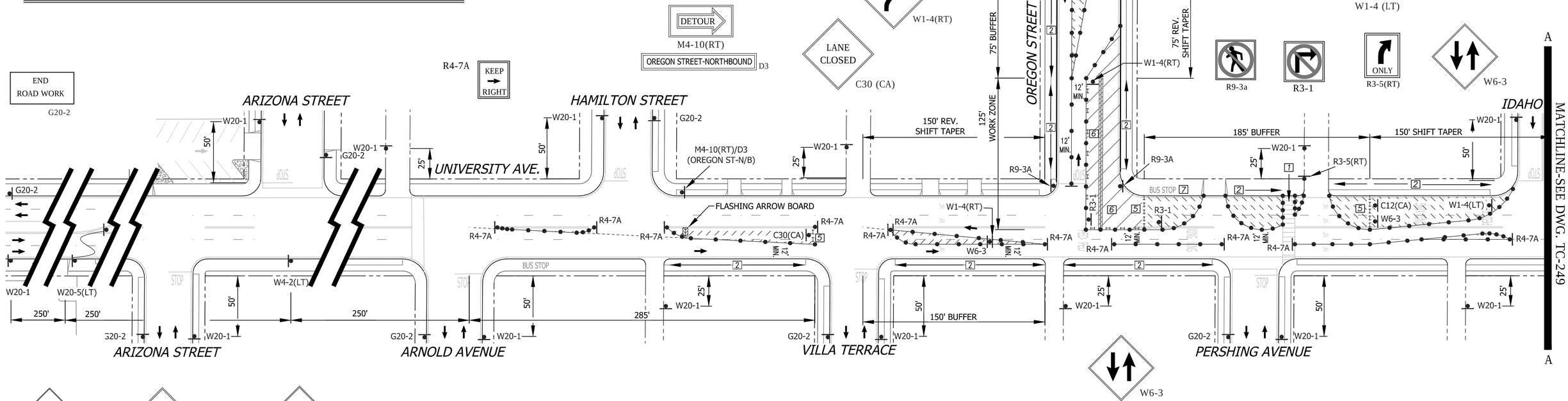
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

SEE DRAWING TC-249 FOR ACCOMPANYING DETOUR ROUTE



ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

W6-3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARIZONA/HAMILTON ST.	25	N/A	N/A	SEE DWG.	25 FT
OREGON/PERSHING ST.	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-TC-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-248

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT OREGON STREET
PHASE 140

CITY OF SAN DIEGO, CALIFORNIA
SHEET 248 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

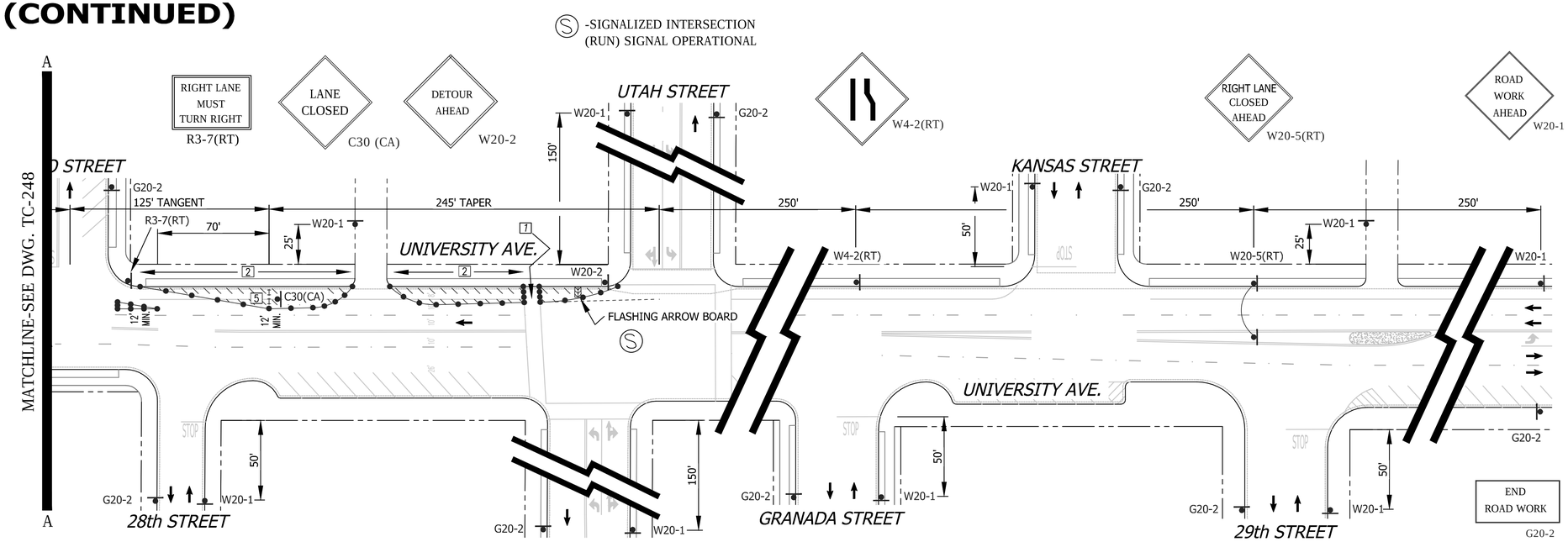
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

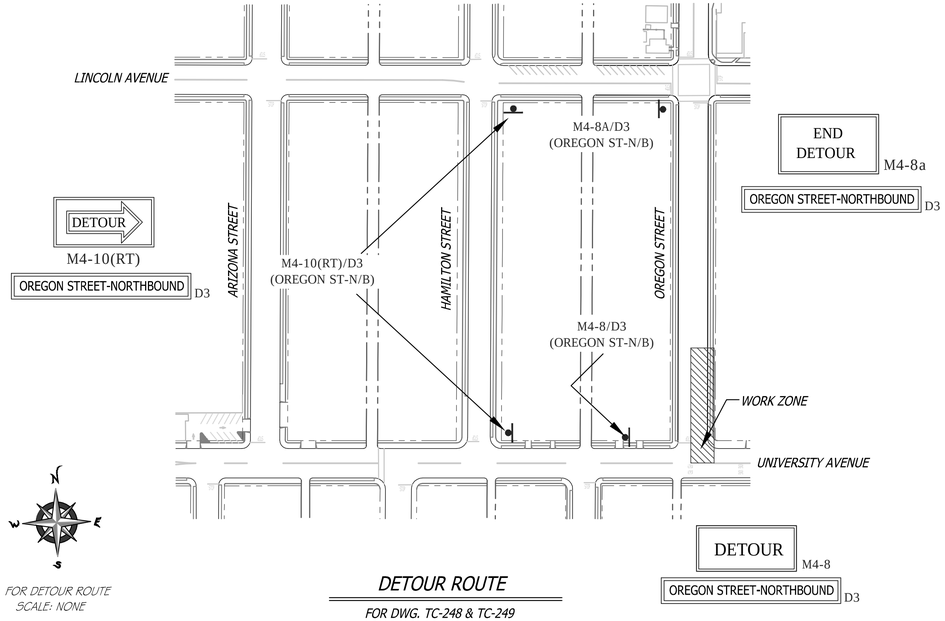
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T248-D

PHASE 140 (CONTINUED)





FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-248 & TC-249

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UTAH STREET	25	N/A	N/A	150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-249

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT OREGON STREET
PHASE 140

CITY OF SAN DIEGO, CALIFORNIA
SHEET 249 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T249-D

TRAFFIC CONTROL NOTES

1. **VALIDATION:** THIS TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL PER SECTION 7-10.2.3 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CALL THE ENGINEERING TRAFFIC CONTROL SECTION AT (858) 495-4741 TO OBTAIN A PERMIT. THE CONTRACTOR MUST CALL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN THE WORK WILL AFFECT A TRAFFIC SIGNAL.

2. **STANDARDS:** THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:

   A. CITY OF SAN DIEGO STANDARD DRAWINGS, APPENDIX "A"
   B. CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; DECEMBER 31, 2012 EDITION
   C. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION (GREENBOOK), INCLUDING REGIONAL AND CITY OF SAN DIEGO SUPPLEMENT AMENDMENTS
   D. TEMPORARY TRAFFIC CONTROL DEVICES WITHIN CALTRANS RIGHT OF WAY SHALL BE IN ACCORDANCE WITH CALTRANS 2010 REVISED STANDARD PLANS RSP T9 THROUGH RSP T14

3. **NOTIFICATIONS:** THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AFFECTED AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL:

· FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
· POLICE DEPARTMENT TRAFFIC	(STREET OR ALLEY CLOSURE)	(858) 495-7800
· WASTE MANAGEMENT DEPT.	(REFUSE COLLECTION)	(858) 694-7000
· STREET DIVISION / ELECTRICAL	(TRAFFIC SIGNALS)	(619) 527-7500
· SAN DIEGO TRANSIT	(BUS STOPS)	(619) 595-7038
· MTDB	(TAXI ZONES)	(619) 235-2643
· UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800) 422-4133

   THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

4. **POSTING NO PARKING SIGNS:** THE CONTRACTOR SHALL POST TOW-AWAY / NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE FOR TEMPORARY PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS.

5. **EXCAVATIONS:** EXCEPT AS SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORKDAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES OPEN TO TRAFFIC , EXCEPT AS SHOWN ON THE PLANS.

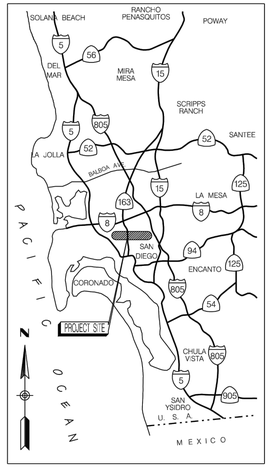
6. **RESTORATION OF TRAFFIC CONTROL DEVICES:** THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE EQUAL TO EXISTING IMPROVEMENTS. LOOP DETECTORS SHALL BE REPLACED WITHIN THREE (3) WORKING DAYS OF COMPLETION OF UNDERGROUND WORK.

7. **CHANGES IN WORK:** THE RESIDENT ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVES THE RIGHT TO MAKE CHANGES AS THE FIELD CONDITIONS WARRANT. SUCH CHANGES SHALL SUPERSEDE THESE PLANS.

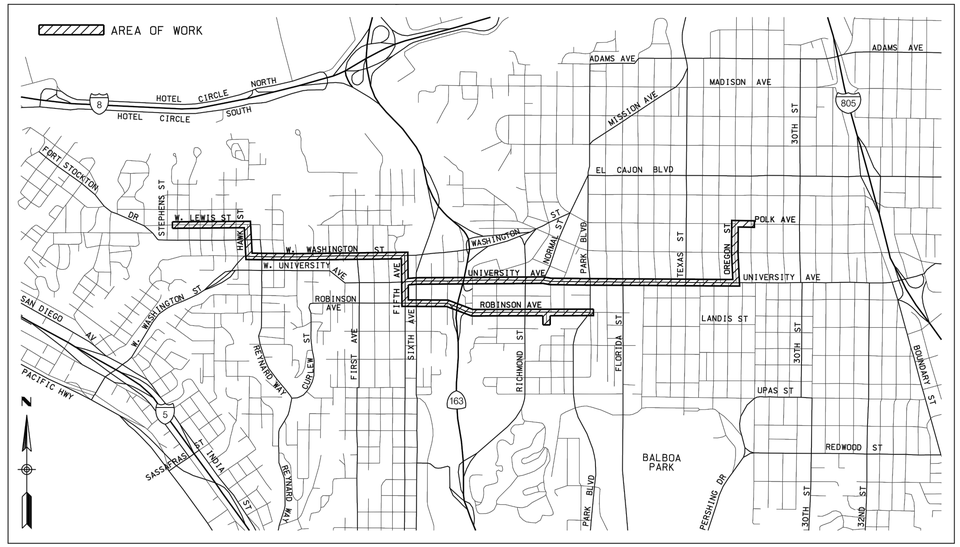
8. FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL, PER SECTION 7-10.2.1 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, PREPARE **TRAFFIC CONTROL SHOP DRAWINGS** AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW **TWENTY (20) WORKING DAYS** FOR REVIEW OF THE SHOP DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE A **TRAFFIC CONTROL PLAN (TCP) PERMIT** FOR THIS WORK.

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL
TRAFFIC SIGNAL TO BE PLACED ON "RED" FLASH

Ⓢ TRAFFIC SIGNAL MODIFICATION NOTE
(TO BE PLACED ON ALL SHEETS WITH WORK IN SIGNALIZED INTERSECTIONS)

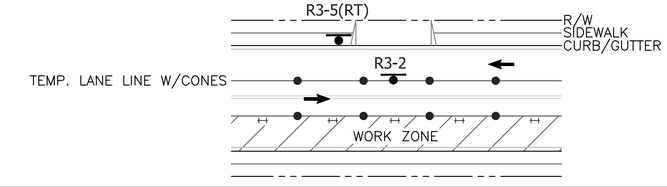


VICINITY MAP



LOCATION MAP

"TYPICAL" DRIVEWAY DETAIL "A"



LEGEND

- ● - DELINEATOR/CONE
- ⟷ - TRAFFIC DIRECTION
- ⊢⊣ - TYPE I BARRICADES
- ▬▬ - TYPE III BARRICADES
- ▬▬ - TYPE III BARRICADE WITH SIGN
- ▨ - TRENCH LINE
- ● - MAN HOLE
- ◇ - HIGH LEVEL WARNING DEVICE SEE CALTRANS TRAFFIC MANUAL
- ● - TRAFFIC SIGN
- ● - DOUBLE TRAFFIC SIGN
- ▯ - FLASHING ARROW SIGN
- ▯ - CHANGEABLE MESSAGE SIGN
- ▨ - K-RAIL
- ⚑ - FLAGGER WITH C28 PADDLE
- ☼ - WARNING LIGHTS (FLASHING/STEADY BURN)
- ×—×—× - 6 FT CONSTRUCTION FENCING
- ●—×—●—× - 4 FT ORANGE SAFETY FENCING WITH 48 INCH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS
- ▨ - TRANSITION AREA
- ▨ - CONCRETE MEDIAN
- ▨ - WORK ZONE
- Ⓢ - SIGNALIZED INTERSECTION

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

TC- 01

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

NOTES SHEET AND SIGN LEGEND FOR TRAFFIC CONTROL PLAN SET (SHEETS TC-1 THRU TC-249)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 1 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR TRAFFIC ENGINEER 07/15/14 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

SEE DRAWINGS CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T01-D

WORK HOURS:	**VARIES - SEE DRAWINGS**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE.					
UNIVERSITY AVE.					
SR-163 NORTHBOUND					

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/14
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-T01D | DATE: 07/15/2014 | BY: DaB

ENGINEER OF WORK
NAME DATE

DES _____
DWN _____
CKD _____

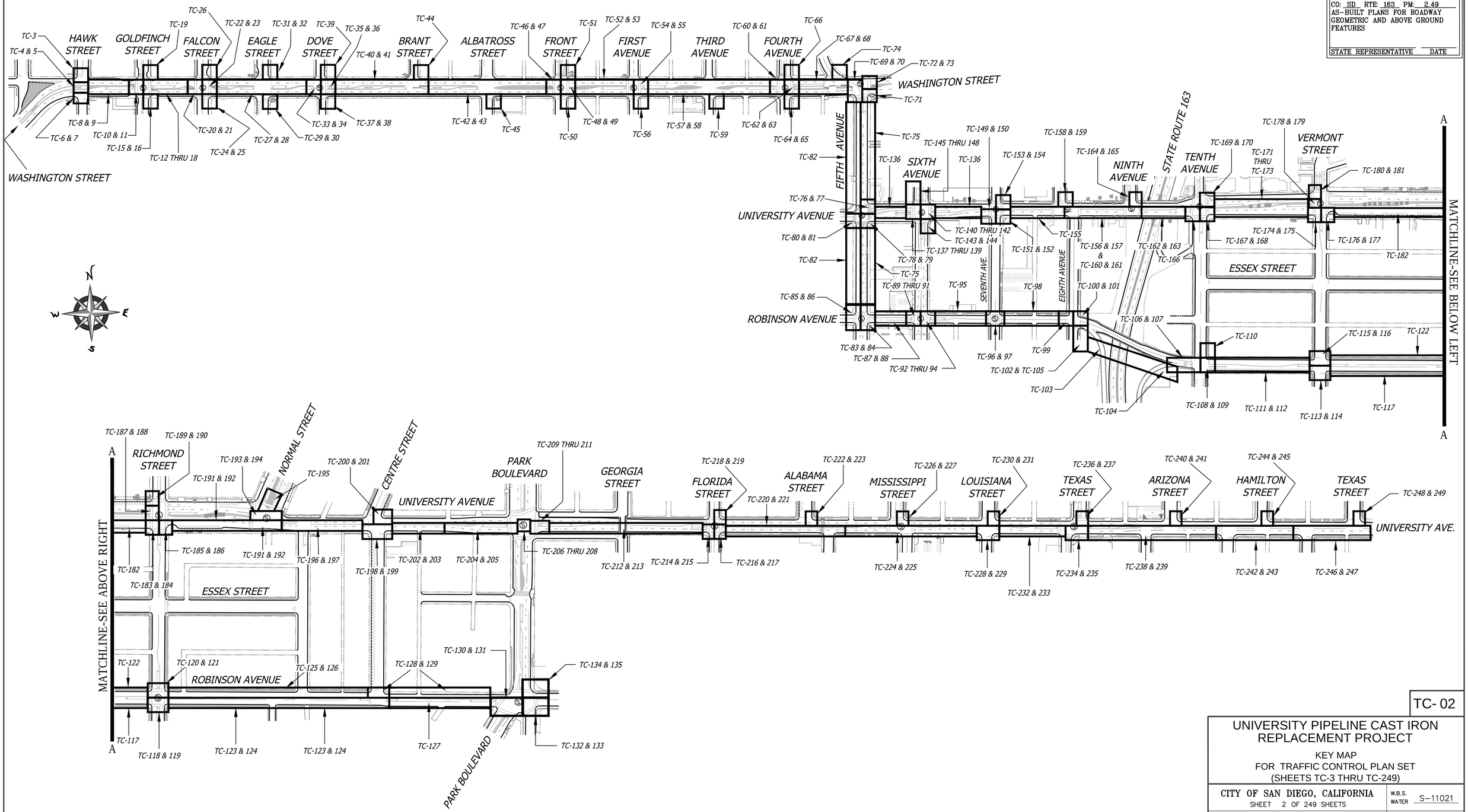
City of San Diego
PUBLIC WORKS PROJECT

SCALE:
VERT:
HOR:
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

APPROVED BY: FOR CITY ENGINEER
CHECKED BY: ASSOCIATE ENGINEER
CHECKED BY: INSPECTOR

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



TC- 02

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

KEY MAP
FOR TRAFFIC CONTROL PLAN SET
(SHEETS TC-3 THRU TC-249)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 2 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/14
FOR TRAFFIC ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

SEE DRAWINGS
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T02-D

WORK HOURS: **VARIES - SEE DRAWINGS**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE.					
UNIVERSITY AVE.					
SR-163 NORTHBOUND					

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/14
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-TC-1A | DATE: 07/15/2014 | BY: DaB

ENGINEER OF WORK

NAME DATE

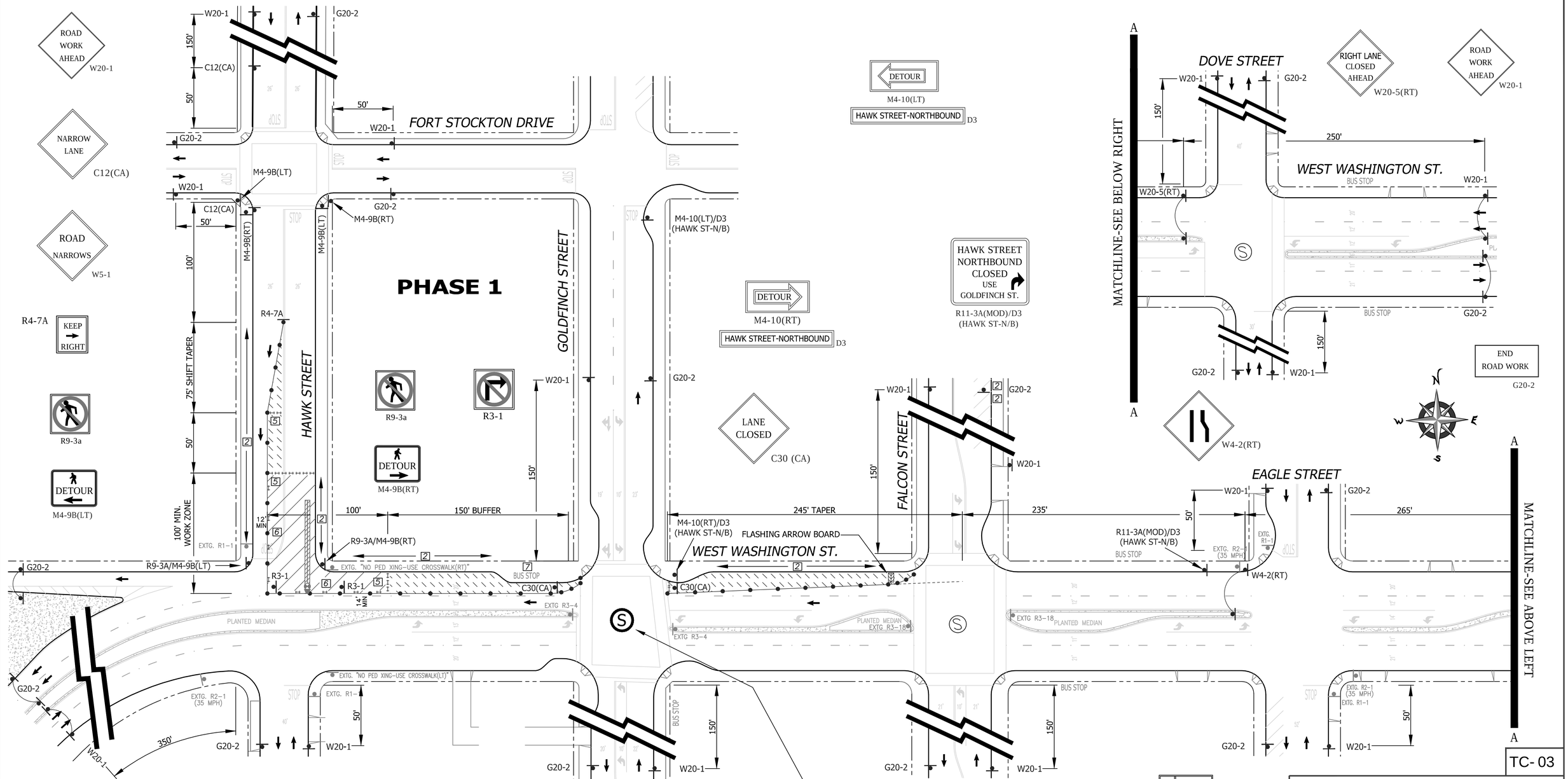
DES _____
DWN _____
CKD _____

City of San Diego
PUBLIC WORKS PROJECT

THE CITY OF SAN DIEGO · STATE OF CALIFORNIA · CENTER VITRUVIAN MAN

SCALE: UNKNOWN
VERT: N/A
HOR: UNKNOWN
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

APPROVED BY: FOR CITY ENGINEER
CHECKED BY: ASSOCIATE ENGINEER
CHECKED BY: INSPECTOR



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

(S) SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	N/A	N/A	500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE: 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 1

CITY OF SAN DIEGO, CALIFORNIA
SHEET 3 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

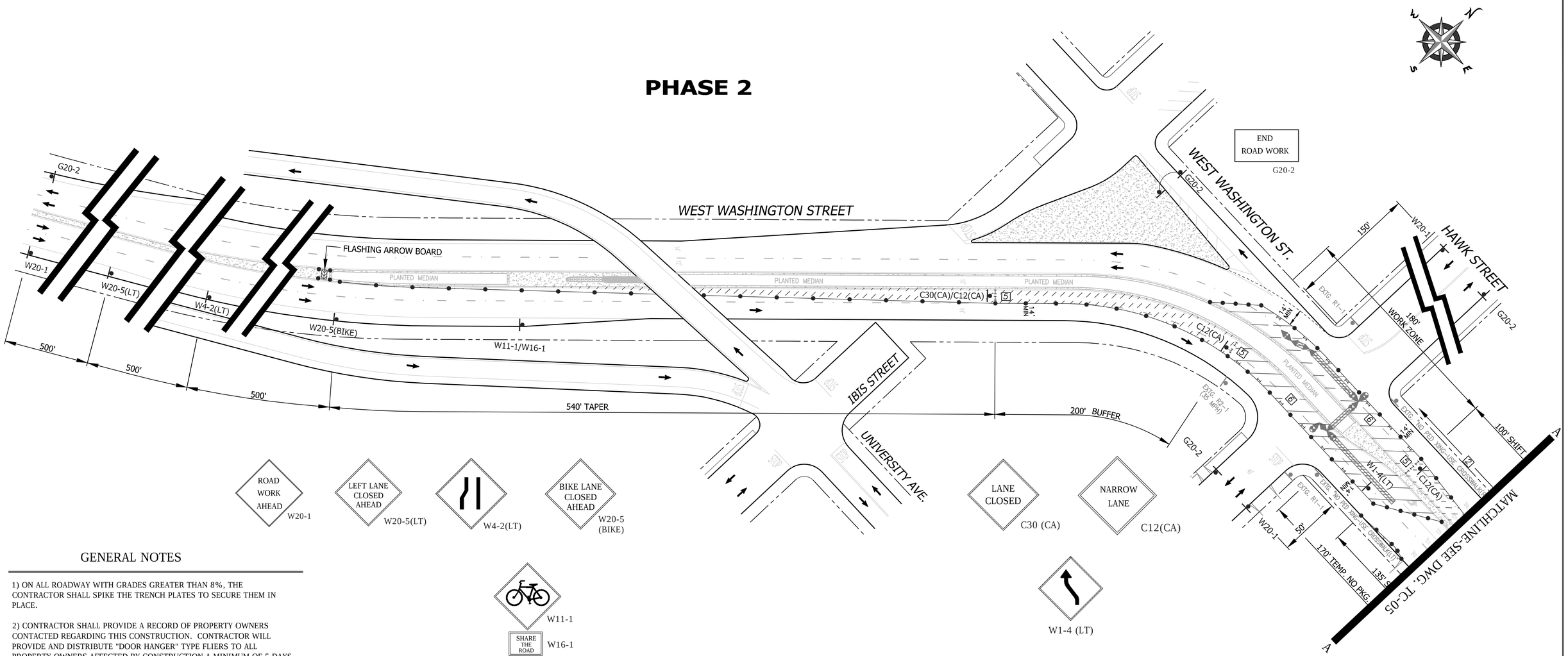
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T03-D

TC-03

PHASE 2



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

TC- 04

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 2

CITY OF SAN DIEGO, CALIFORNIA
SHEET 4 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
36656-T04-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

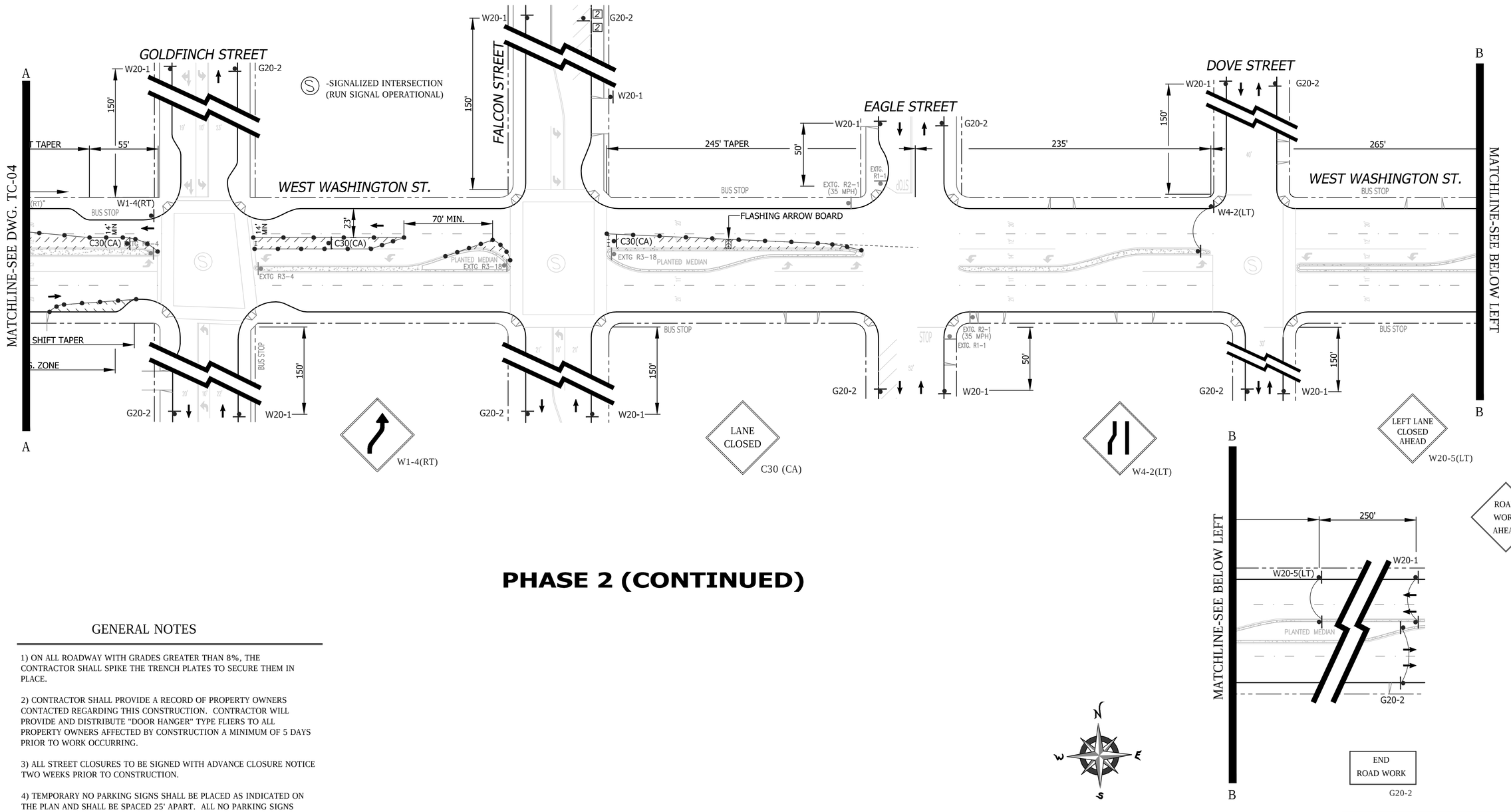
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE: 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 2 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE: 06/09/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 05

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT HAWK STREET
PHASE 2

CITY OF SAN DIEGO, CALIFORNIA
SHEET 5 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

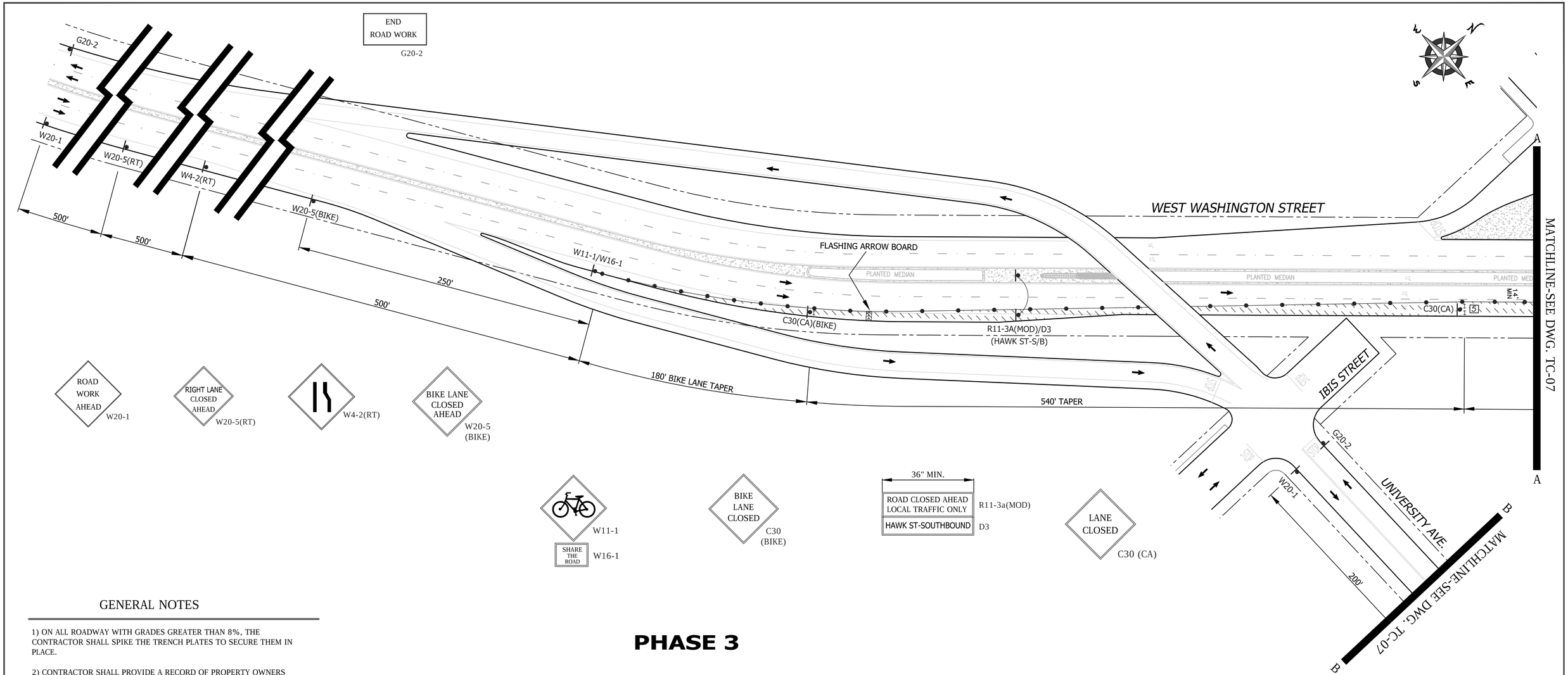
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE

1850444-6274407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T05-D



PHASE 3

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE	30	N/A	N/A	200 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 06

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 3

CITY OF SAN DIEGO, CALIFORNIA
SHEET 6 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

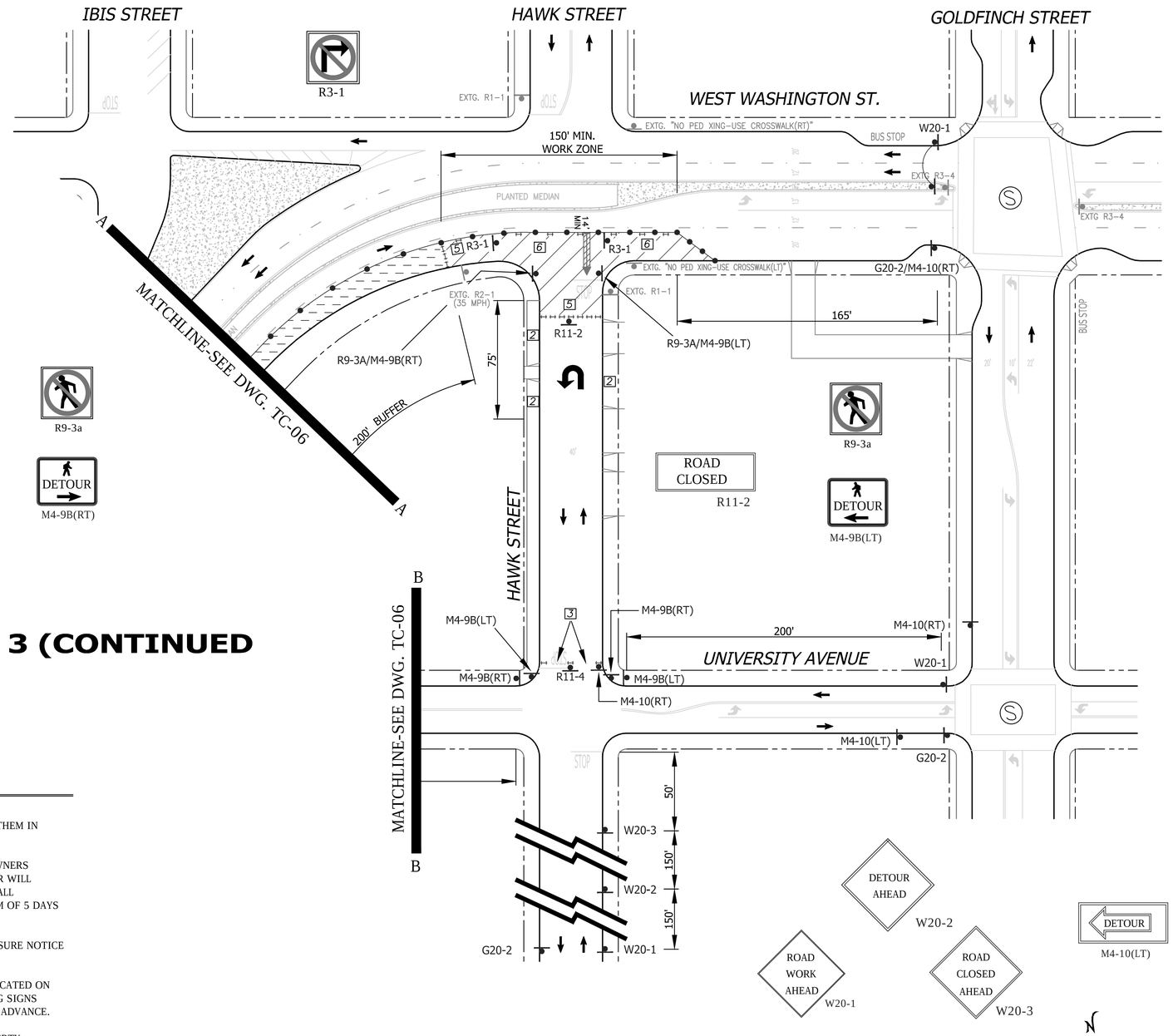
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
36656-T06-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 3 (CONTINUED



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	SEE DWG.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-07

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT HAWK STREET
PHASE 3

CITY OF SAN DIEGO, CALIFORNIA
SHEET 7 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

210-1713
CCS27 COORDINATE

1850444-6274407
CCS83 COORDINATE

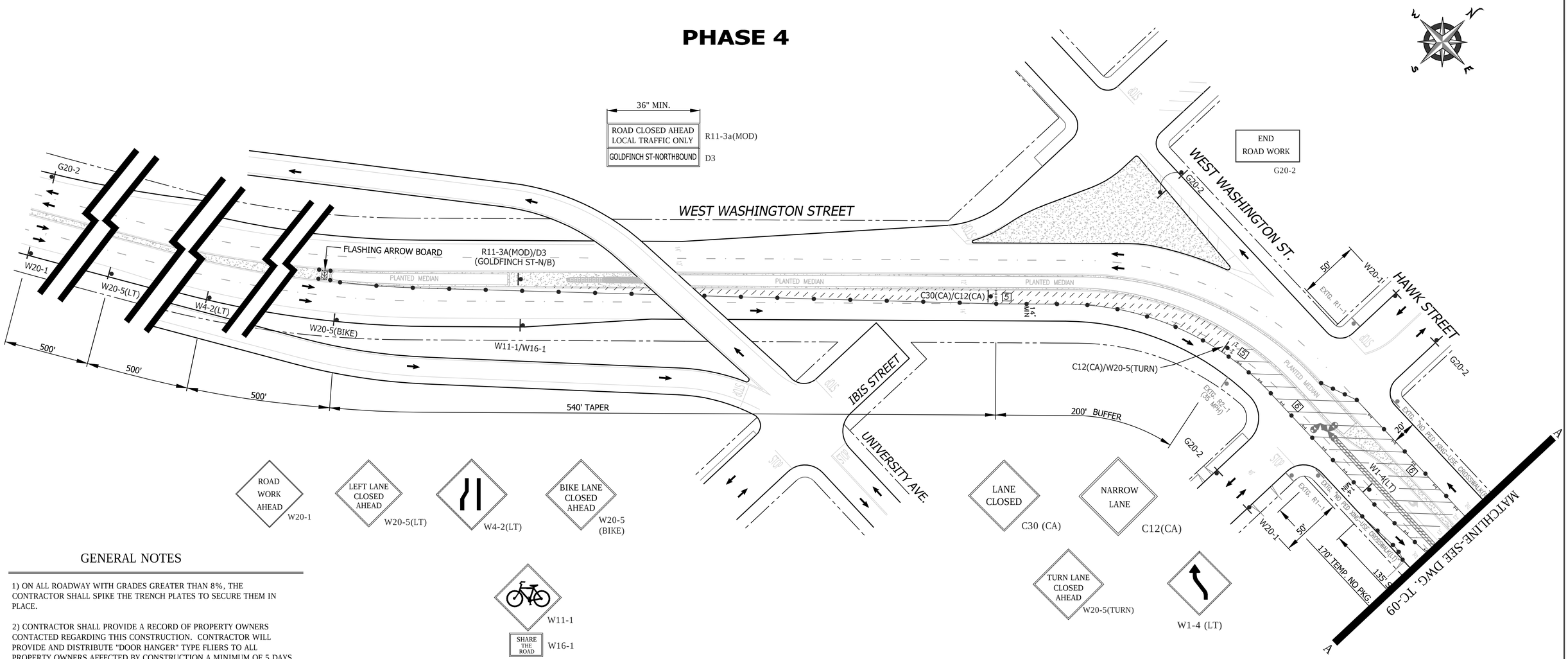
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T07-D

SEE DRAWING TC-09 FOR ACCOMPANYING DETOUR ROUTE

PHASE 4



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING	
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060Te-1A | DATE 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 08

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
HAWK STREET TO GOLDFINCH STREET
PHASE 4

CITY OF SAN DIEGO, CALIFORNIA
SHEET 8 OF 249 SHEETS

W.B.S. WATER S-11021

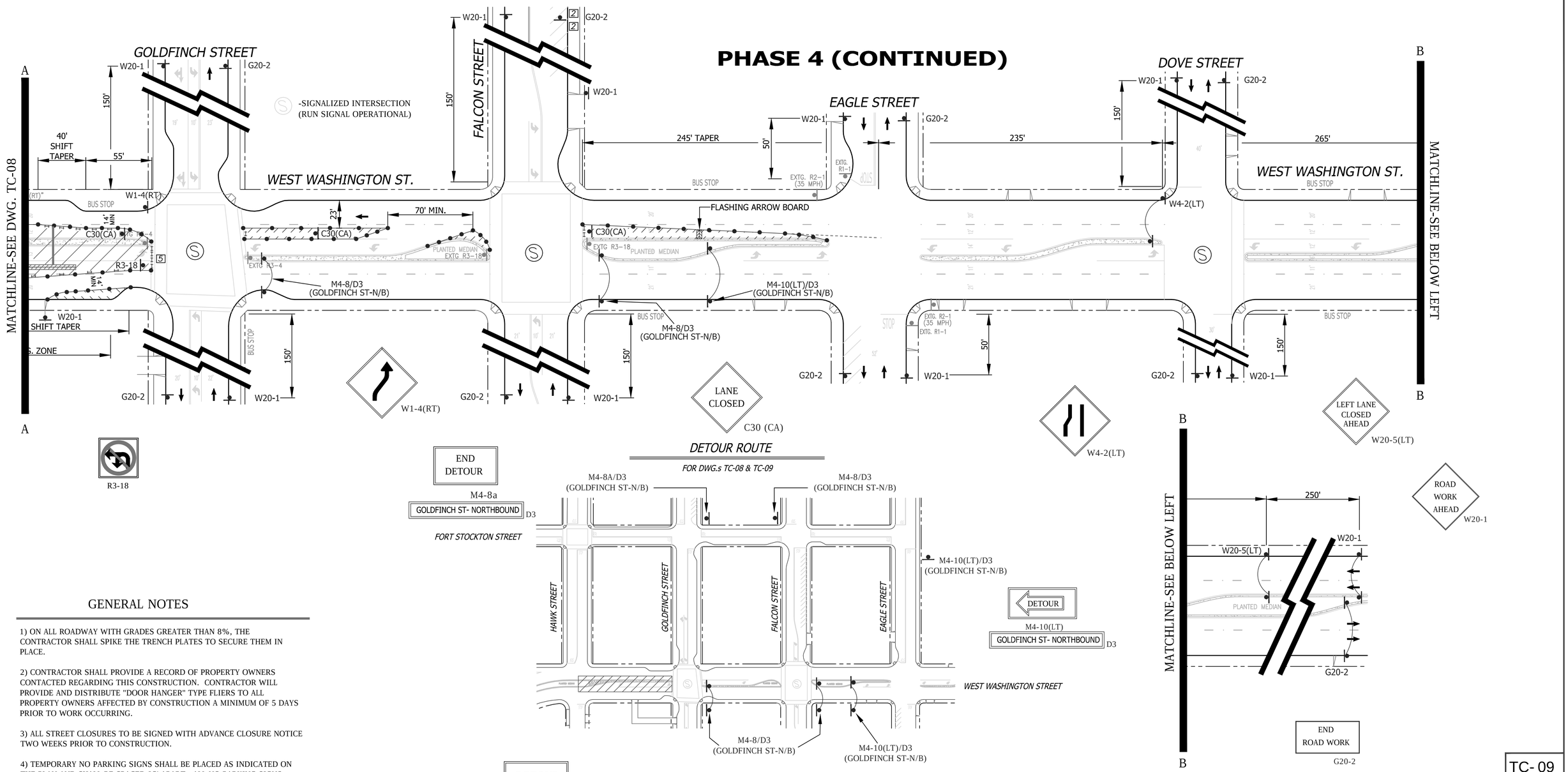
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 — CCS27 COORDINATE
1850444-6274407 — CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T08-D

PHASE 4 (CONTINUED)



R3-18

END DETOUR

M4-8a

GOLDFINCH ST- NORTHBOUND D3

DETOUR ROUTE

FOR DWG.s TC-08 & TC-09

DETOUR
M4-10(LT)
GOLDFINCH ST- NORTHBOUND D3

DETOUR
M4-8
GOLDFINCH ST- NORTHBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-1A | DATE: 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 09

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
HAWK STREET TO GOLDFINCH STREET
PHASE 4

CITY OF SAN DIEGO, CALIFORNIA
SHEET 9 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

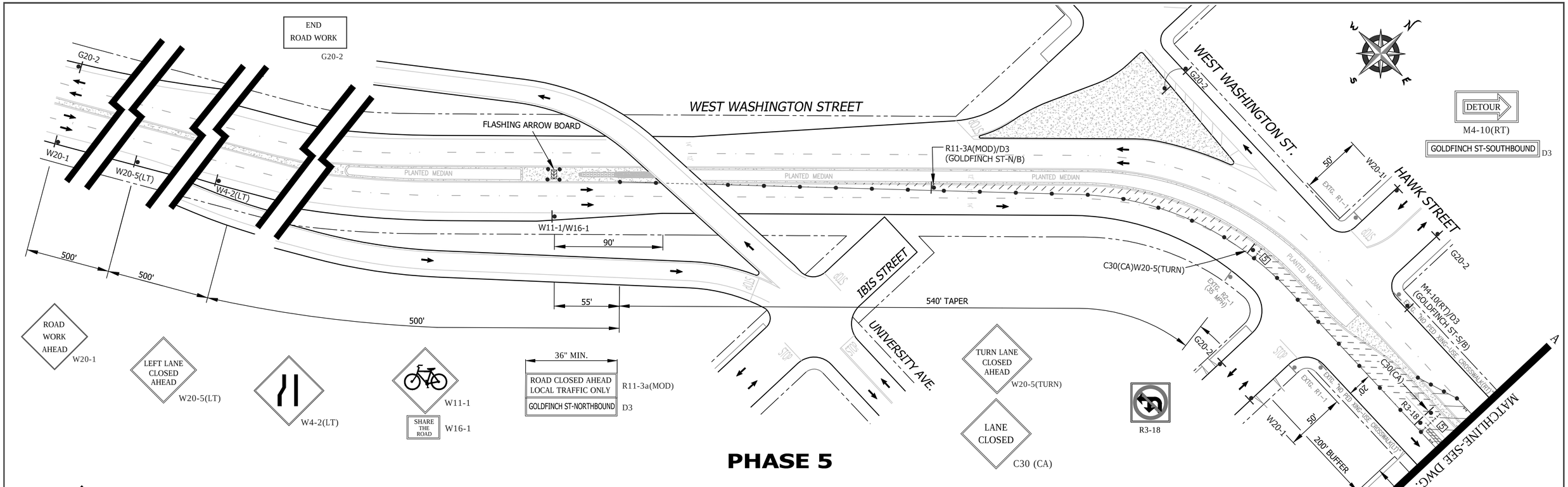
SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T09-D



DAVE'S
TRAFFIC CONTROL PLANS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

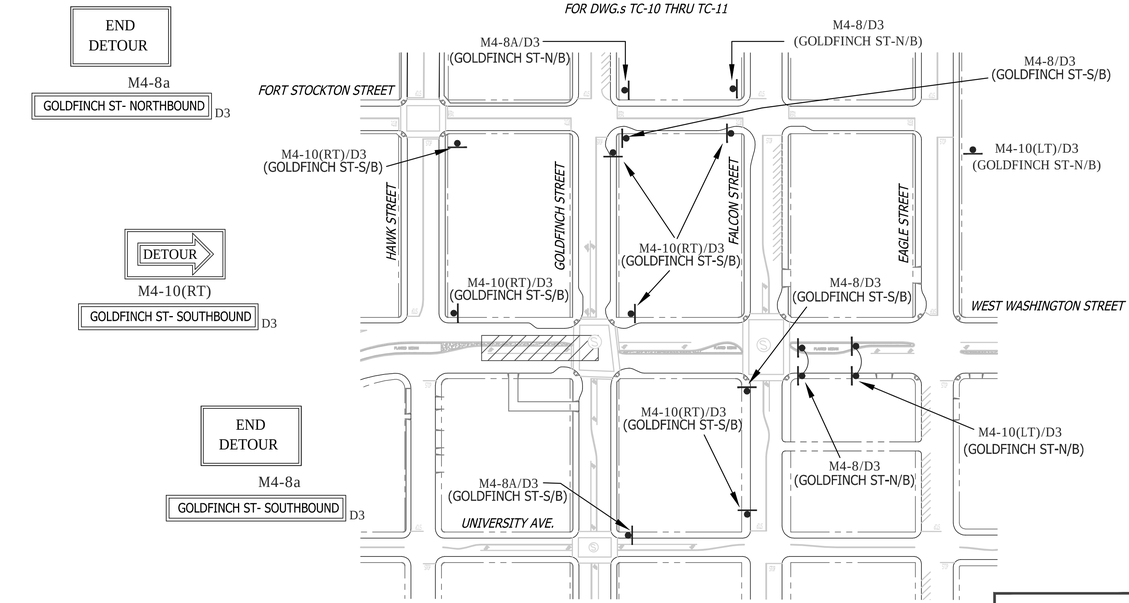
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

DETOUR ROUTE

FOR DWG.s TC-10 THRU TC-11



END DETOUR
M4-8a
GOLDFINCH ST- NORTHBOUND D3

DETOUR
M4-10(RT)
GOLDFINCH ST- SOUTHBOUND D3

END DETOUR
M4-8a
GOLDFINCH ST- SOUTHBOUND D3

DETOUR
M4-10(LT)
GOLDFINCH ST- NORTHBOUND D3

DETOUR
M4-8
GOLDFINCH ST- SOUTHBOUND D3

DETOUR
M4-8
GOLDFINCH ST- NORTHBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1A | DATE 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 10

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 5

CITY OF SAN DIEGO, CALIFORNIA
SHEET 10 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

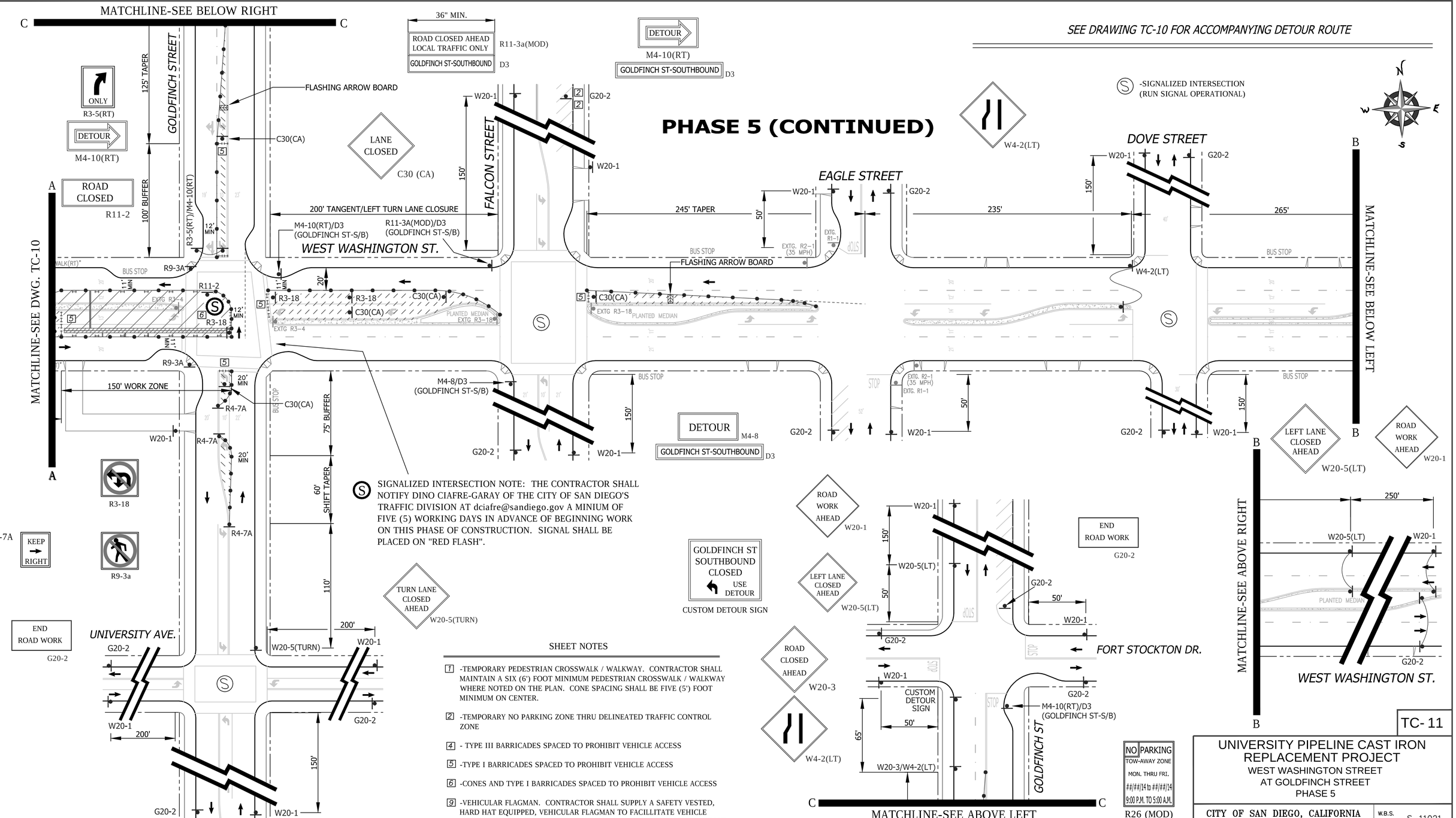
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T10-D



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
9. -VEHICULAR FLAGMAN. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, VEHICULAR FLAGMAN TO FACILLITATE VEHICLE MOVEMENT THRU THE INTERSECTION TO / FROM THE TEMPORARY DETOUR ON THE OTHER SIDE OF THE STREET

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1A | DATE: 06/09/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 5

CITY OF SAN DIEGO, CALIFORNIA
SHEET 11 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

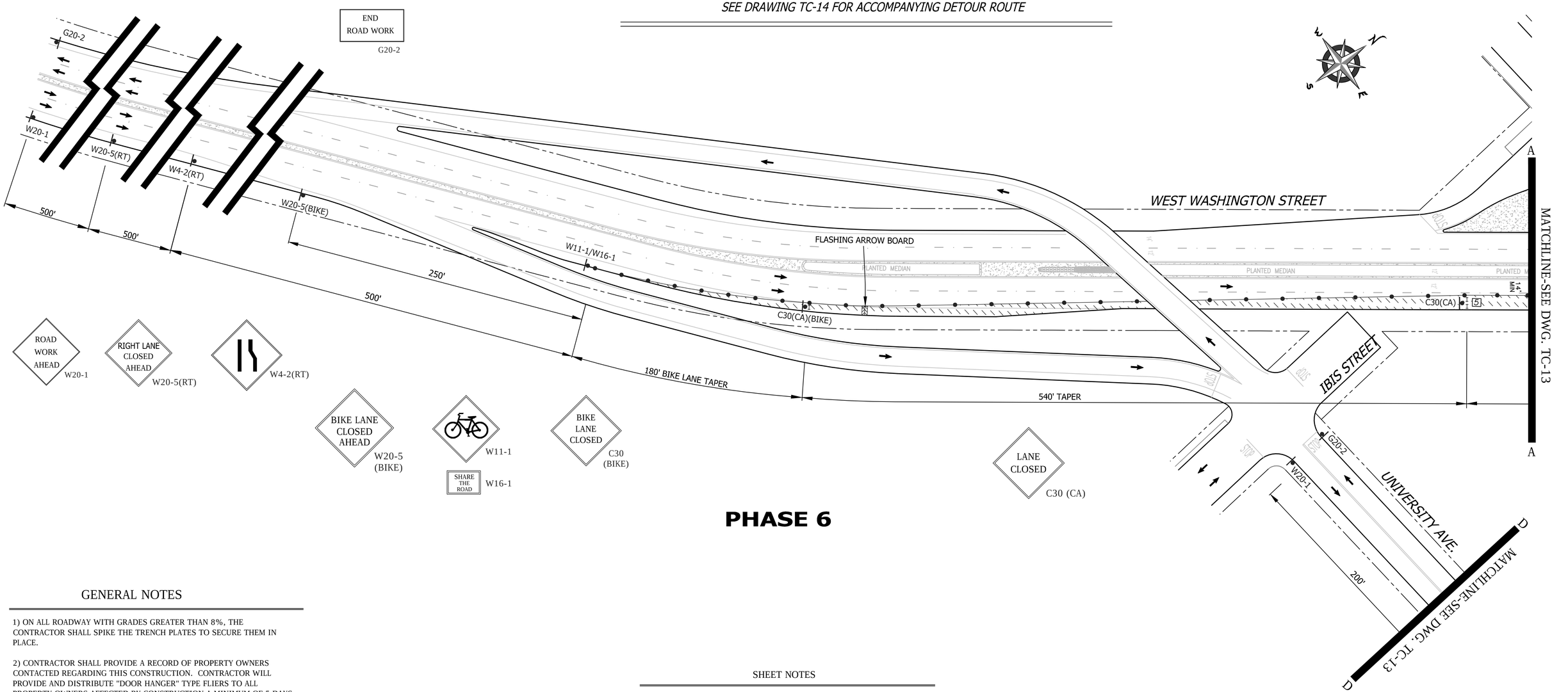
210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T11-D

TC- 11

SEE DRAWING TC-14 FOR ACCOMPANYING DETOUR ROUTE



PHASE 6

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -VEHICULAR FLAGMAN. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, VEHICULAR FLAGMAN TO FACILLITATE VEHICLE MOVEMENT THRU THE INTERSECTION TO / FROM THE TEMPORARY DETOUR ON THE OTHER SIDE OF THE STREET

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1A | DATE 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 12

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 6

CITY OF SAN DIEGO, CALIFORNIA
SHEET 12 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T12-D

PHASE 6 (CONTINUED)

MATCHLINE-SEE BELOW LEFT

SEE DRAWING TC-14 FOR ACCOMPANYING DETOUR ROUTE

Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE SET TO "RED FLASH".

Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

END ROAD WORK G20-2

WEST WASHINGTON ST. EASTBOUND CLOSED USE GOLDFINCH ST. R11-3A(MOD)/D3 (W. WASH. ST-E/B)

HAWK STREET

GOLDFINCH STREET

155' TEMP. NO PARKING ZONE

125' TAPER

75' BUFFER/REV. TAPER

W1-4(RT)

FLASHING ARROW BOARD

C30(CA)

DETOUR M4-8 W. WASHINGTON ST-EASTBOUND D3

M4-10(LT)/D3 (W. WASHINGTON ST-E/B)

M4-8/D3 (W. WASHINGTON ST-E/B)

FALCON STREET

W20-1

G20-2

150'

DO NOT ENTER R5-1

WRONG WAY R5-1A

EAGLE STREET

200'

BUS STOP

EXTG. R2-1 (35 MPH)

EXTG. R1-1

WEST WASHINGTON ST.

50'

EXTG. R1-1

EXTG. "NO PED XING-USE CROSSWALK(RT)"

R4-7A

R9-3A

R5-1/R5-1A's

R11-3A(MOD)/D3 (W. WASH ST-E/B)

EXTG R3-4

PLANTED MEDIAN

70' MIN.

14' MIN

C12(CA)

M4-10(RT)

R11-2

R3-1

EXTG R3-18

PLANTED MEDIAN

W1-4(LT)

M4-10(RT)/D3 (W. WASH ST-E/B)

R3-7(RT)

135' SHIFT TAPER

90'

170' TEMP. NO PKG. ZONE

50'

75' SHIFT TAPER

100' - SPACE SIGNS EVENLY AS SHOWN

R4-7A's

12' MIN

20' MIN

R3-5(RT)

DETOUR M4-10(RT) W. WASHINGTON ST-EASTBOUND D3

W1-4 (LT)

ROAD NARROWS W5-1

NARROW LANE C12(CA)

W5-1

C12(CA)

M4-10(LT)/D3 (W. WASHINGTON ST-E/B)

LEFT LANE CLOSED AHEAD W20-5(LT)

DETOUR M4-10(RT)

MATCHLINE-SEE DWG. TC-12

RIGHT LANE MUST TURN RIGHT R3-7(RT)

R3-7(RT)

90' MIN.

BUFFER

200' BUFFER

EXTG. R2-1 (35 MPH)

MEDIAN

R4-7A

KEEP RIGHT

FORT STOCKTON DRIVE

W20-1

G20-2

50'

W20-5(LT)

M4-10(RT)/D3 (W. WASHINGTON ST. -EASTBOUND)

90'

W4-2(LT)

MATCHLINE-SEE DWG. TC-12

MATCHLINE-SEE ABOVE RIGHT

DETOUR M4-10(LT) W. WASHINGTON ST-EASTBOUND D3

Ⓢ –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

CONTRACTOR SHALL KEEP ONE CROSSWALK OPEN AT ALL TIMES WHEN ACCOMPLISHING WORK SHOWN (EXAMPLE SHOWN)

75' BUFFER

100' SHIFT TAPER

175' TEMP. NO PARKING ZONE

R9-3a

R3-1

ONLY R3-5(RT)

ROAD CLOSED R11-2

G20-2/M4-10(LT)/D3 (W. WASHINGTON ST-E/B)

DETOUR AHEAD W20-2

END ROAD WORK G20-2

ROAD WORK AHEAD W20-1

END DETOUR M4-8a W. WASHINGTON ST-EASTBOUND D3

END ROAD WORK G20-2

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M. R26 (MOD)

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

ROAD WORK AHEAD W20-1

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT	
GOLDFINCH STREET	25	SEE DWG.	SEE DWG.	25 FT	
W. WASHINGTON ST (E/B)	45	SEE DWG.	500 FT.	25 FT	

TC- 13

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 6

CITY OF SAN DIEGO, CALIFORNIA
SHEET 13 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1713 CCS27 COORDINATE
1850444–6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T13-D

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

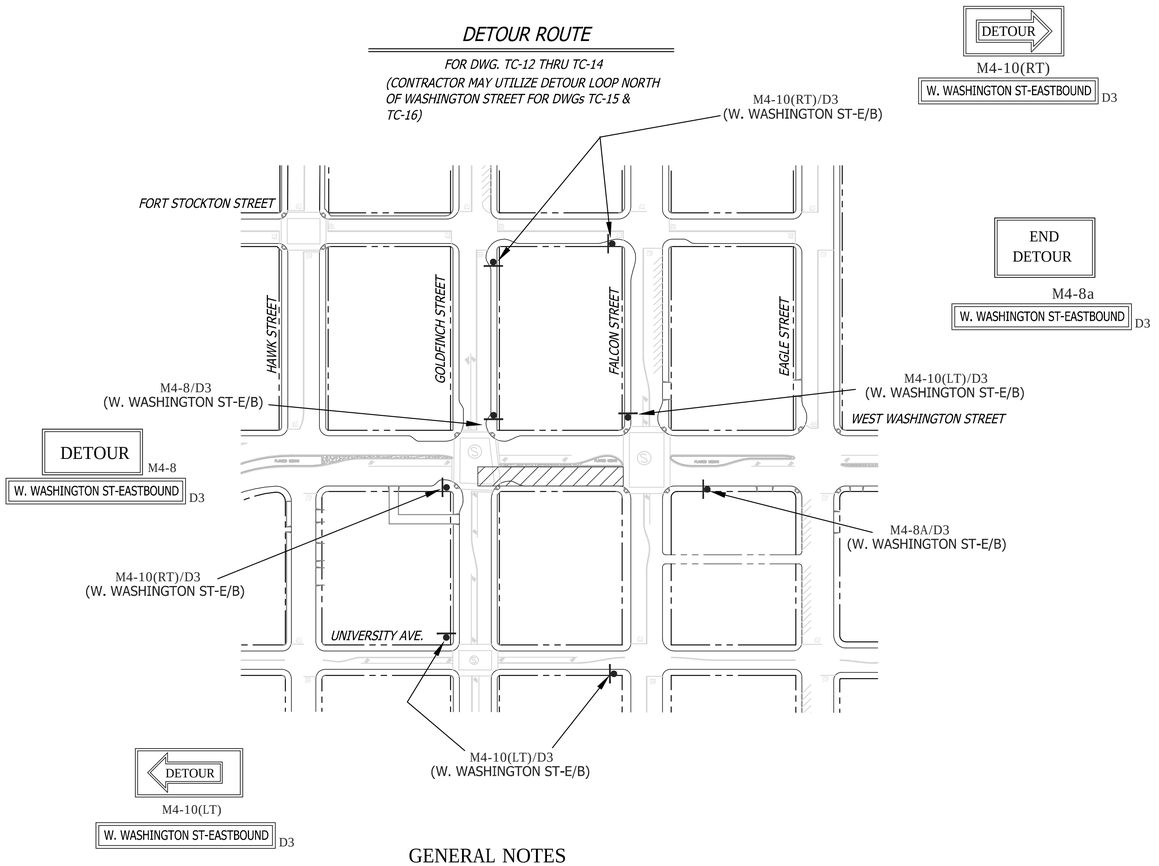
REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9–30–15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME: 13060tc-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 6 (CONTINUED)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 14

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 6

CITY OF SAN DIEGO, CALIFORNIA
SHEET 14 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____
36656-T14-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

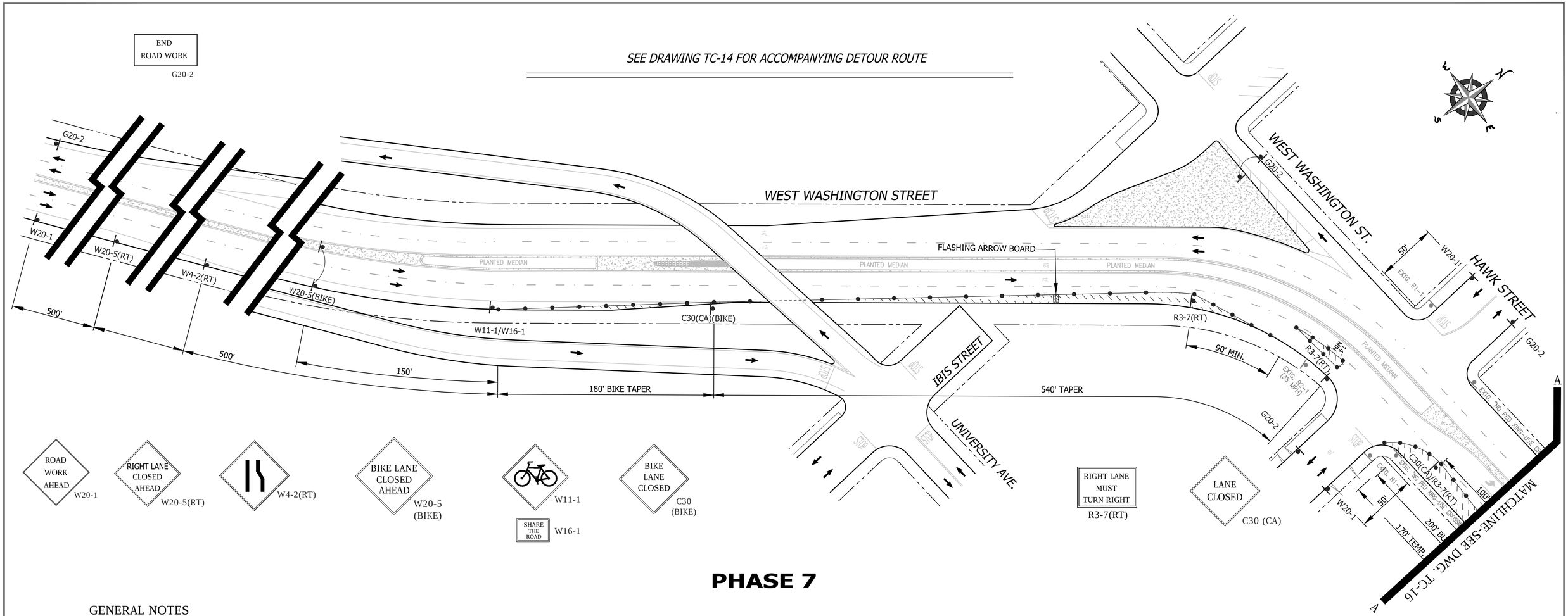
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1A | DATE 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

END
ROAD WORK
G20-2

SEE DRAWING TC-14 FOR ACCOMPANYING DETOUR ROUTE



ROAD WORK AHEAD — W20-1

RIGHT LANE CLOSED AHEAD — W20-5(RT)

W4-2(RT)

BIKE LANE CLOSED AHEAD — W20-5 (BIKE)

W11-1

SHARE THE ROAD — W16-1

BIKE LANE CLOSED — C30 (BIKE)

RIGHT LANE MUST TURN RIGHT — R3-7(RT)

LANE CLOSED — C30 (CA)

PHASE 7

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 15

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 7

CITY OF SAN DIEGO, CALIFORNIA
SHEET 15 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

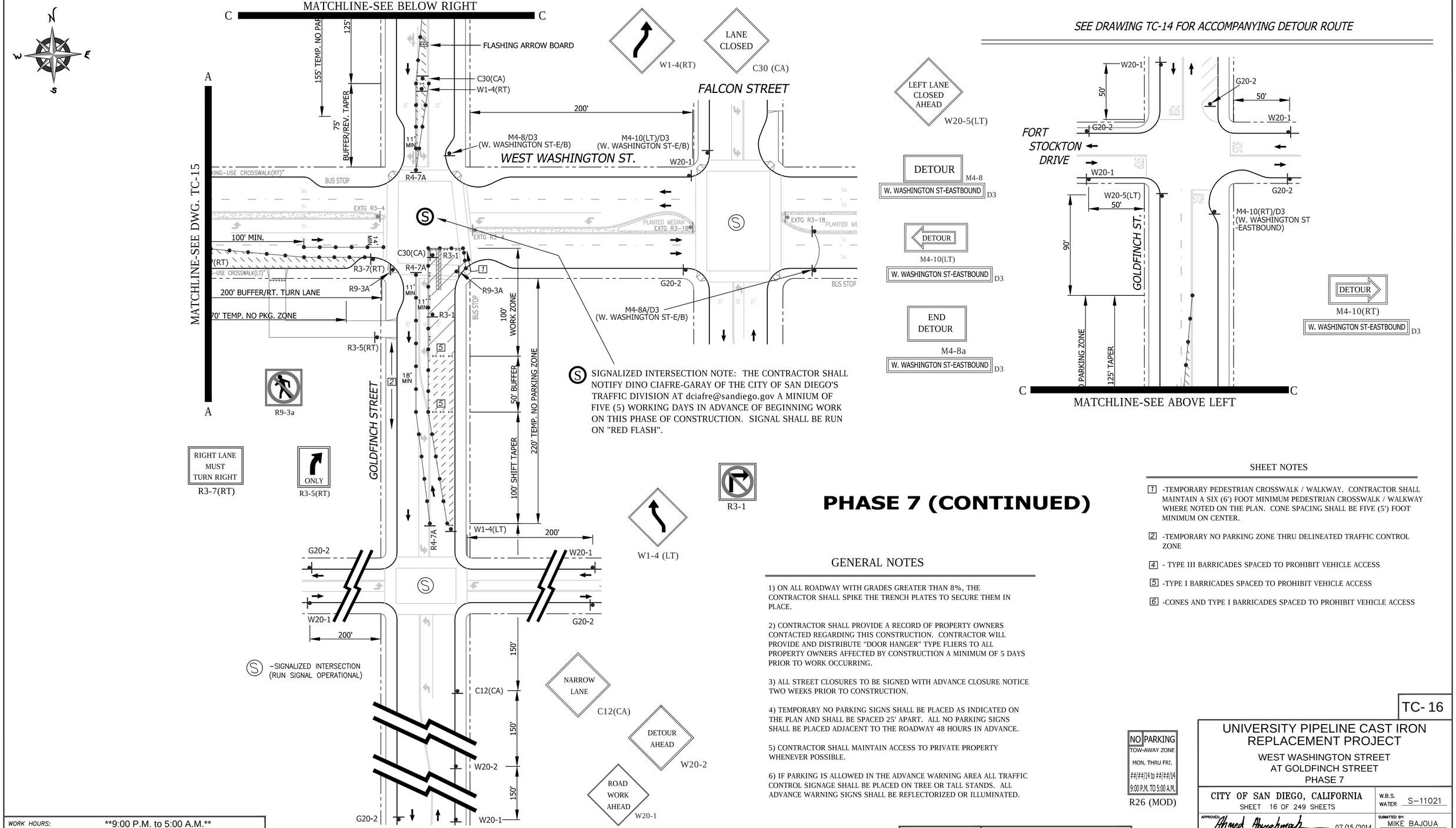
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T15-D



PHASE 7 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 16

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 7

CITY OF SAN DIEGO, CALIFORNIA
SHEET 16 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

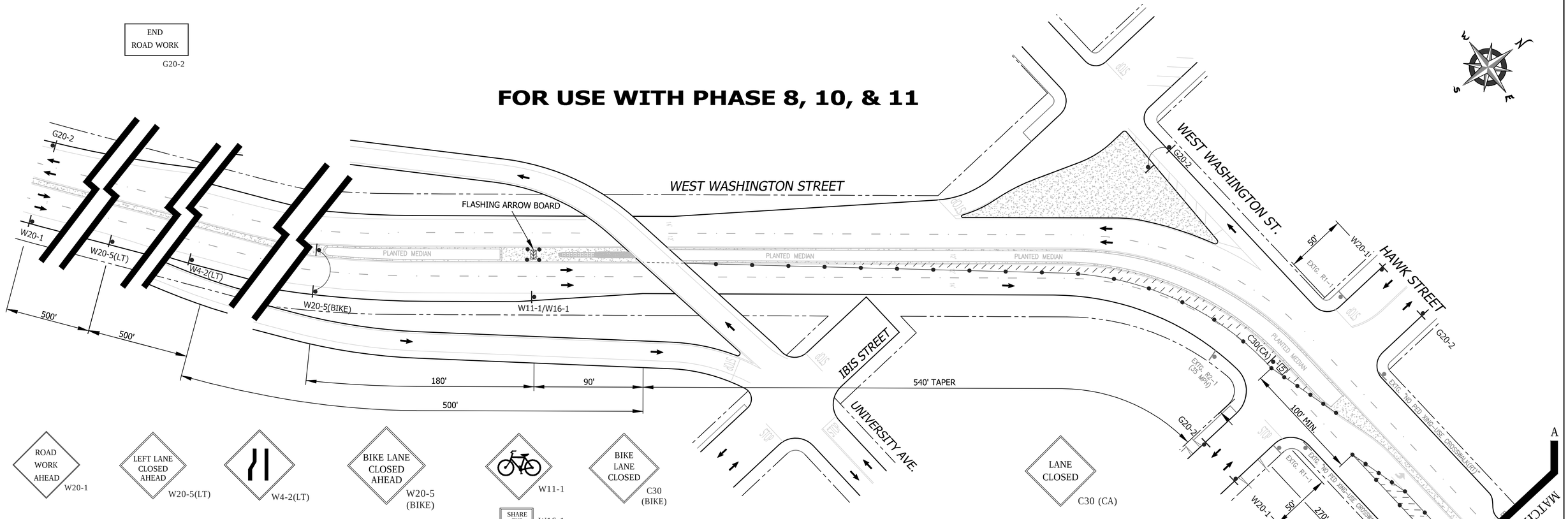
210–1713
CCS27 COORDINATE
1850444–6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T16-D

END
ROAD WORK
G20-2

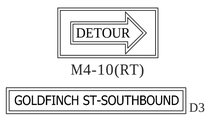
FOR USE WITH PHASE 8, 10, & 11

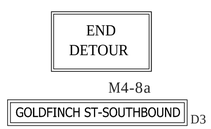


SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

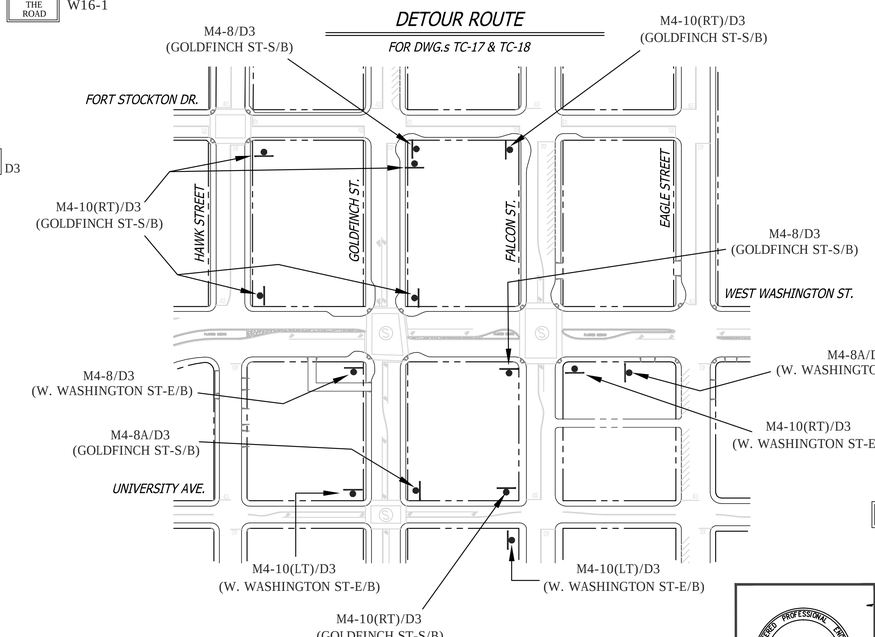
R26 (MOD)

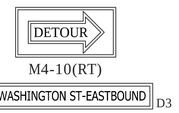


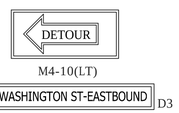


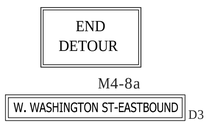
DETOUR ROUTE

FOR DWG.s TC-17 & TC-18









WORK HOURS:	**9:00 P.M. to 5:00 A.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1a | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 17

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 8

CITY OF SAN DIEGO, CALIFORNIA
SHEET 17 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

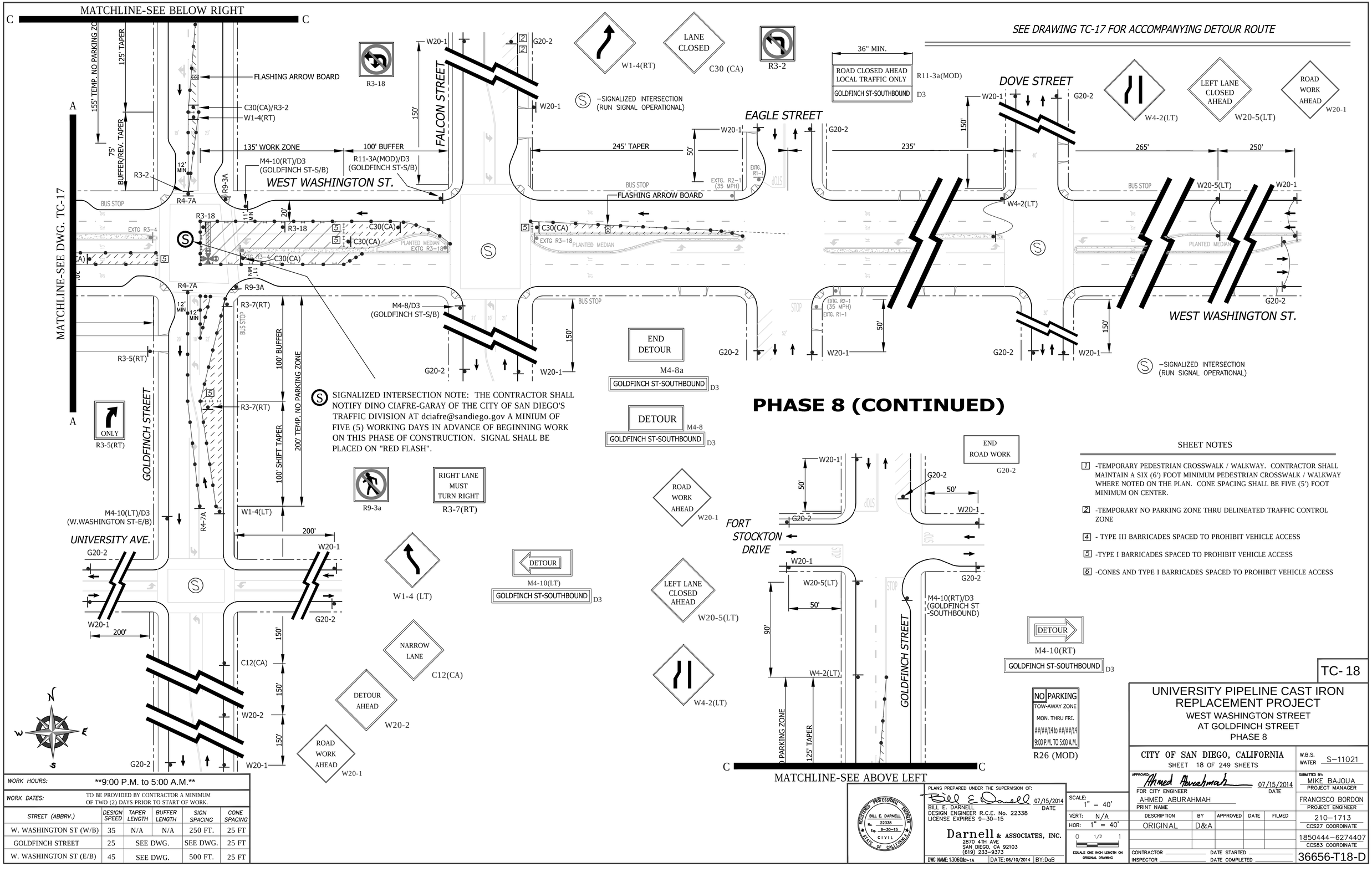
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T17-D



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130606c-1a | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 18

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 8

CITY OF SAN DIEGO, CALIFORNIA
SHEET 18 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____
36656-T18-D

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

DETOUR
M4-10(RT)
GOLDFINCH ST-NORTHBOUND D3

HAWK STREET
WEST WASHINGTON ST.
FALCON STREET
EAGLE STREET
GOLDFINCH STREET
DOVE STREET
UNIVERSITY AVE.
WEST WASHINGTON STREET
FORT STOCKTON DR.

W20-1 G20-2 W20-3 W20-5(TURN) W20-5(RT) W4-2(RT) W20-2
ROAD CLOSED R11-2
M4-10(RT)/D3 (GOLDFINCH ST-N/B)
DO NOT ENTER R5-1
WRONG WAY R5-1A
R3-1
R5-1/R5-1A
R9-3A
R11-3A(MOD)/D3 (GOLDFINCH ST-N/B)
R3-2 C30(CA)
R3-7(RT)
R3-4
R3-18
R2-1 (35 MPH)
R1-1
R9-3a
M4-8/D3 (GOLDFINCH ST-N/B)
R61(MOD)/ M4-10(RT)
R61(MOD)
M4-10(LT)/D3 (GOLDFINCH ST-N/B)
M4-8/D3 (GOLDFINCH ST-N/B)
M4-8A/D3 (GOLDFINCH ST-N/B)
M4-10(RT)/D3 (GOLDFINCH ST-N/B)
M4-10(LT)/D3 (GOLDFINCH ST-N/B)
M4-8 M4-10(LT) M4-8a
R3-4
R26 (MOD)
W4-2(RT) W20-5(RT) W20-1
RIGHT LANE CLOSED AHEAD
ROAD WORK AHEAD
ROAD CLOSED AHEAD
DETOUR AHEAD
END ROAD WORK
LANE CLOSED
TURN LANE CLOSED AHEAD
ONLY ONLY
36" MIN.
ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
GOLDFINCH ST-NORTHBOUND D3
R11-3a(MOD)
RIGHT LANE MUST TURN RIGHT
R3-7(RT)
FLASHING ARROW BOARD
BUS STOP
STOP
EXTG. R1-1
EXTG. R2-1 (35 MPH)
EXTG. R3-4
EXTG. R3-18
EXTG. "NO PED XING-USE CROSSWALK(LT)"
EXTG. "NO PED XING-USE CROSSWALK(RT)"
PLANTED MEDIAN
230' TURN LANE CLOSURE
200' BUFFER & TEMP. NO PKG. ZONE
245' TAPER & TEMP. NO PKG. ZONE
135' SHIFT TAPER & TEMP. NO PARKING ZONE
60' MIN. OPENING
100' MIN. WORK ZONE
MATCHLINE-SEE BELOW LEFT
MATCHLINE-SEE ABOVE RIGHT
–SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)
DETOUR M4-10(RT) GOLDFINCH ST-NORTHBOUND D3
DETOUR M4-8 GOLDFINCH ST-NORTHBOUND D3
DETOUR M4-10(LT) GOLDFINCH ST-NORTHBOUND D3
END DETOUR M4-8a GOLDFINCH ST-NORTHBOUND D3

PHASE 9

DETOUR ROUTE
FOR DWG. TC-19

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE OR RE-ROUTE. CONTRACTOR SHALL CONTACT SAN DIEGO TRANSIT AT (619) 238-0100 X424 A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	N/A	N/A	500 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060S-1A | DATE 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 19

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT GOLDFINCH STREET
PHASE 9

CITY OF SAN DIEGO, CALIFORNIA
SHEET 19 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T19-D

PHASE 10

MATCHLINE-SEE DWG. TC-21

ONLY | ONLY
R61(MOD)

DETOUR
M4-10(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

R4-7A KEEP → RIGHT

DETOUR M4-8
W. WASHINGTON ST-WESTBOUND D3

ROAD CLOSED
R11-2

ROAD WORK AHEAD
W20-1

Ⓢ –SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

W4-2(LT)

GOLDFINCH STREET
EAGLE STREET
DOVE STREET
WEST WASHINGTON ST.
FALCON STREET

W20-1, G20-2, 150', 165', 115' SHIFT TAPER & TEMP. NO PKG. ZONE, 60' MIN. OPENING, R61(MOD), R61(MOD)/M4-10(RT), 12' MIN, R4-7A, 200' BUFFER, 50', 245' TAPER, 250', M4-8/D3 (W. WASHINGTON ST-W/B), BUS STOP, EXTG. R2-1 (35 MPH), EXTG. R1-1, STOP, R9-3A, M4-10(LT)/D3 (FALCON ST-S/B), 20' MIN, C30(CA), C12(CA), R11-2, R3-2, EXTG R3-4, EXTG R3-18, PLANTED MEDIAN, 14' MIN, FLASHING ARROW BOARD, 70' MIN.

W1-4(RT), 100' SHIFT TAPER, 50' BUFFER, 80' WORK ZONE, R5-1/R5-1A, 90' TURN LANE CLOSURE, 25', 150', 200', 36" MIN.

DO NOT ENTER R5-1
WRONG WAY R5-1A

LANE CLOSED
C30 (CA)

R3-2

ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY R11-3a(MOD)
W.WASHINGTON ST-WESTBOUND D3

R11-3A(MOD)/D3 (W. WASHINGTON ST-W/B)

END DETOUR
M4-8a
W. WASHINGTON ST-WESTBOUND D3

DETOUR
M4-10(LT)
FALCON ST-SOUTHBOUND D3

END DETOUR
M4-8a
FALCON ST-SOUTHBOUND D3

ROAD WORK AHEAD W20-1

DETOUR
M4-10(LT)
W. WASHINGTON ST-WESTBOUND D3

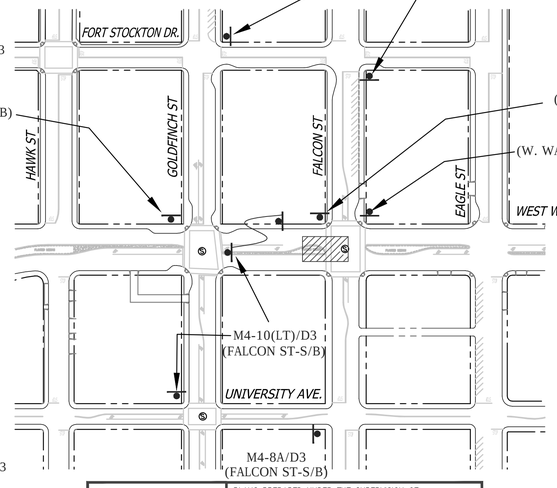
DETOUR
M4-10(RT)
FALCON ST-SOUTHBOUND D3

NARROW LANE
C12(CA)

R9-3a

END ROAD WORK
G20-2

DETOUR ROUTE
FOR DWG. TC-20 & TC-21



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060te-1A | DATE 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 20

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT FALCON STREET
PHASE 10

CITY OF SAN DIEGO, CALIFORNIA
SHEET 20 OF 249 SHEETS

W.B.S.
WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

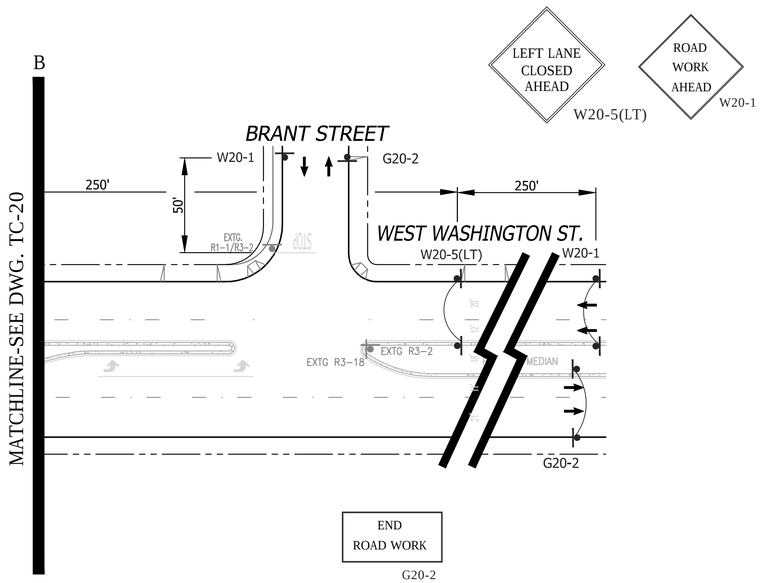
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

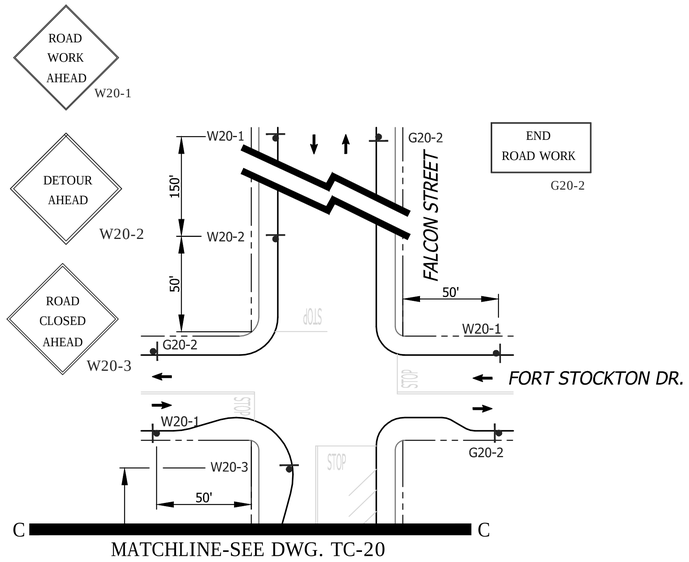
210–1713
CCS27 COORDINATE
1850444–6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T20-D

PHASE 10 (CONTINUED)





SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:13060Tre-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 21

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET - PHASE 10
(CONTINUATION SHEET FOR TC-20)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 21 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

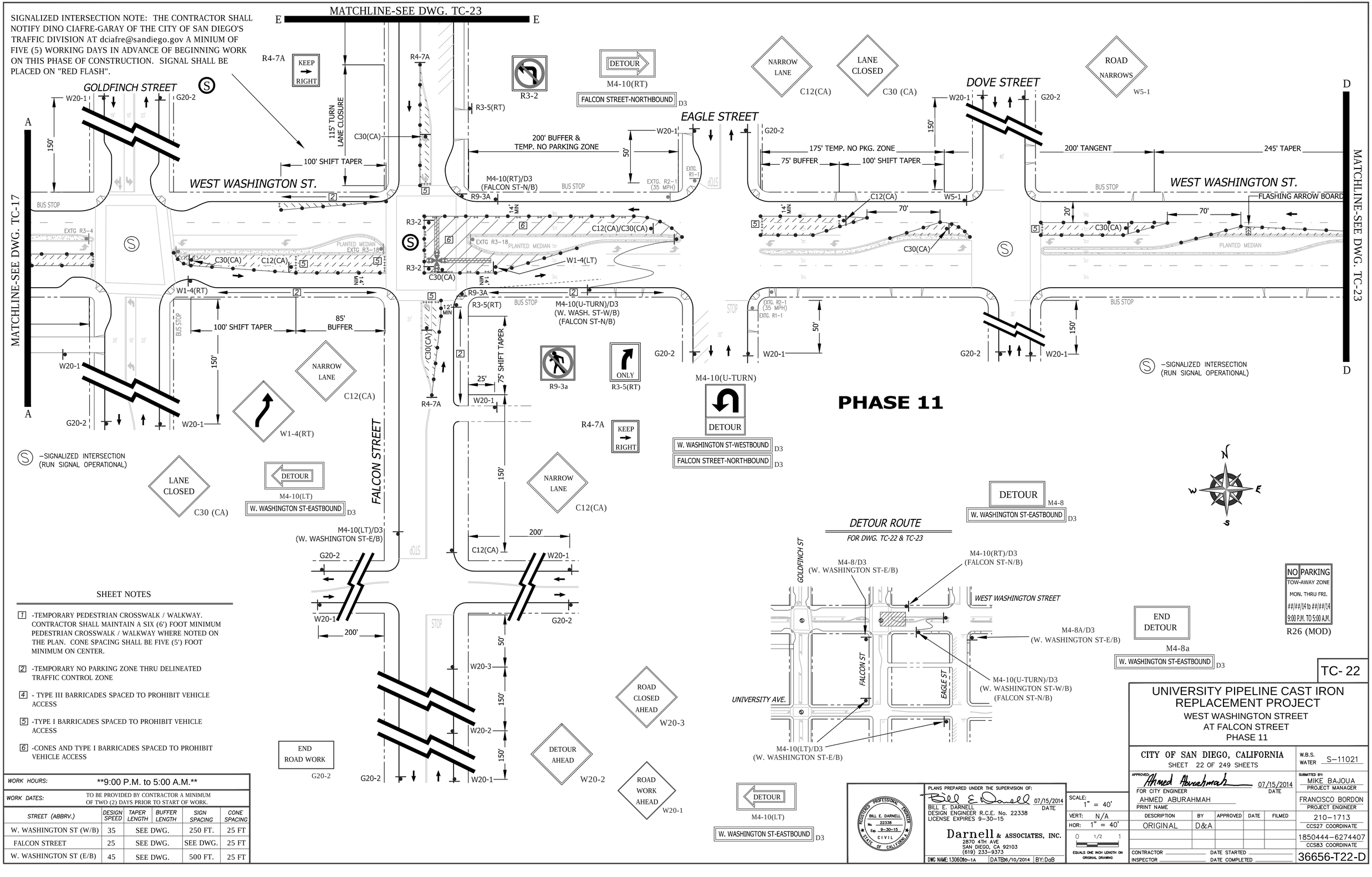
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T21-D

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



PHASE 11

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

DETOUR ROUTE

FOR DWG. TC-22 & TC-23

DETOUR
M4-8
W. WASHINGTON ST-EASTBOUND D3

END DETOUR
M4-8a
W. WASHINGTON ST-EASTBOUND D3

DETOUR
M4-10(LT)
W. WASHINGTON ST-EASTBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 22

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET
PHASE 11

CITY OF SAN DIEGO, CALIFORNIA
SHEET 22 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1713
CCS27 COORDINATE
1850444–6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T22-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9–30–15 — CIVIL — STATE OF CALIFORNIA

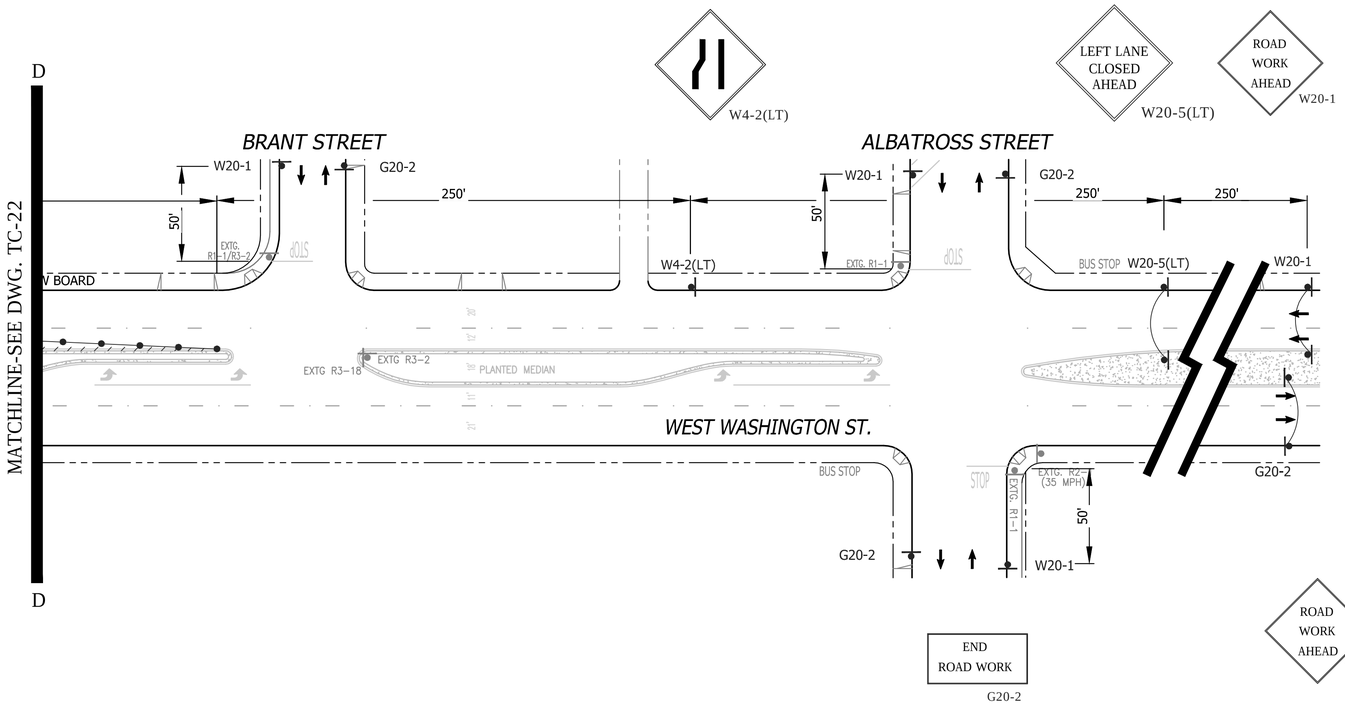
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

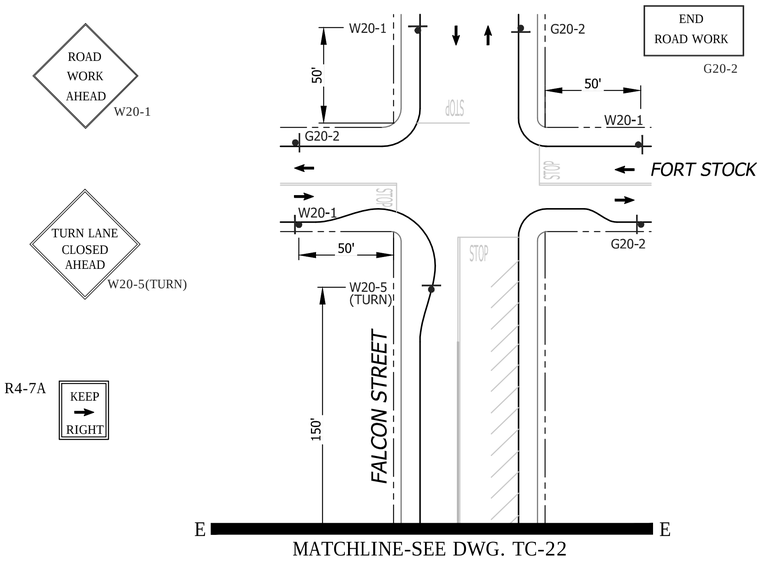
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME: 13060tc–1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 11 (CONTINUED)





GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 23

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET - PHASE 11
(CONTINUATION SHEET FOR TC-22)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 23 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T23-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

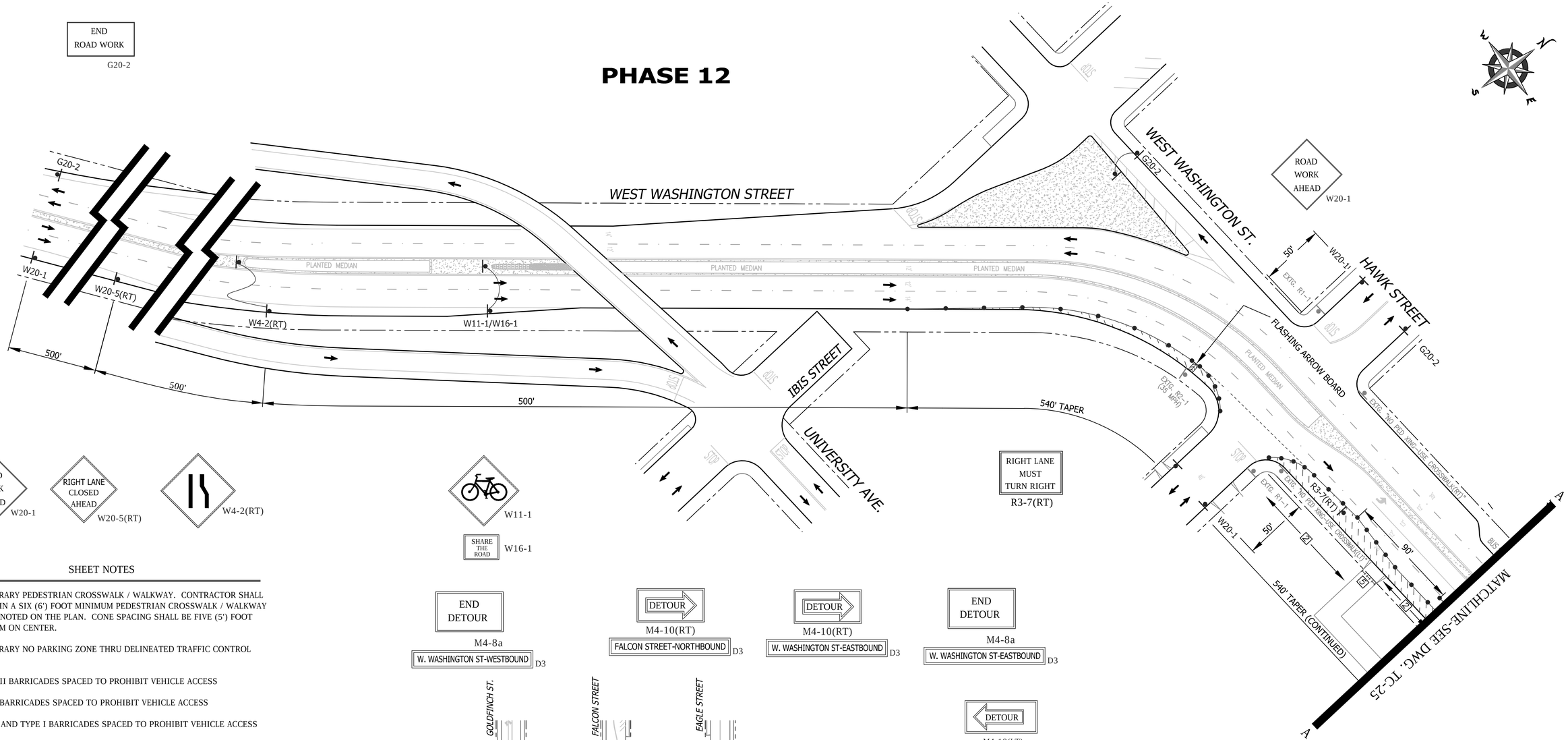
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060te-1A | DATE 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 12

END ROAD WORK
G20-2



ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

W11-1

SHARE THE ROAD W16-1

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

END DETOUR
M4-8a
W. WASHINGTON ST-WESTBOUND D3

DETOUR
M4-10(RT)
FALCON STREET-NORTHBOUND D3

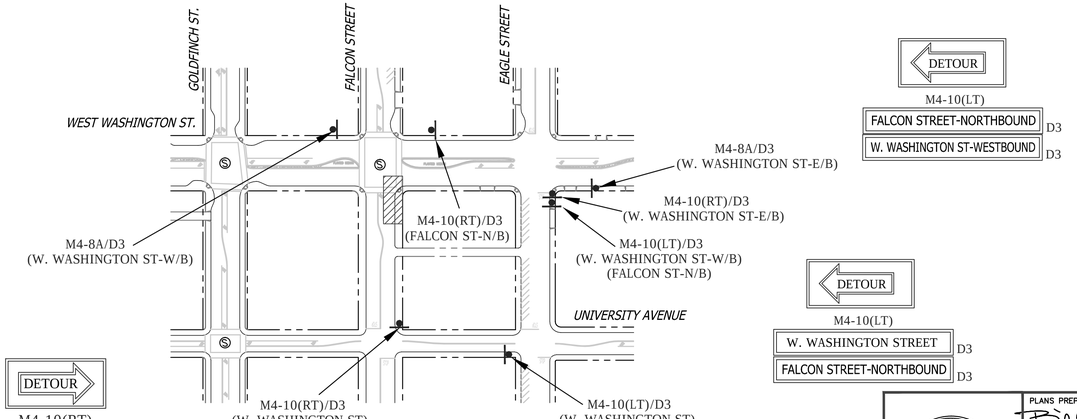
DETOUR
M4-10(RT)
W. WASHINGTON ST-EASTBOUND D3

END DETOUR
M4-8a
W. WASHINGTON ST-EASTBOUND D3

DETOUR
M4-10(LT)
FALCON STREET-NORTHBOUND D3
W. WASHINGTON ST-WESTBOUND D3

DETOUR
M4-10(LT)
W. WASHINGTON STREET D3
FALCON STREET-NORTHBOUND D3

DETOUR
M4-10(RT)
W. WASHINGTON STREET D3
FALCON STREET-NORTHBOUND D3



DETOUR ROUTE

FOR DWG.s TC-24 & TC-25

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601S-1A | DATE: 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 24

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FALCON STREET
PHASE 12

CITY OF SAN DIEGO, CALIFORNIA
SHEET 24 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

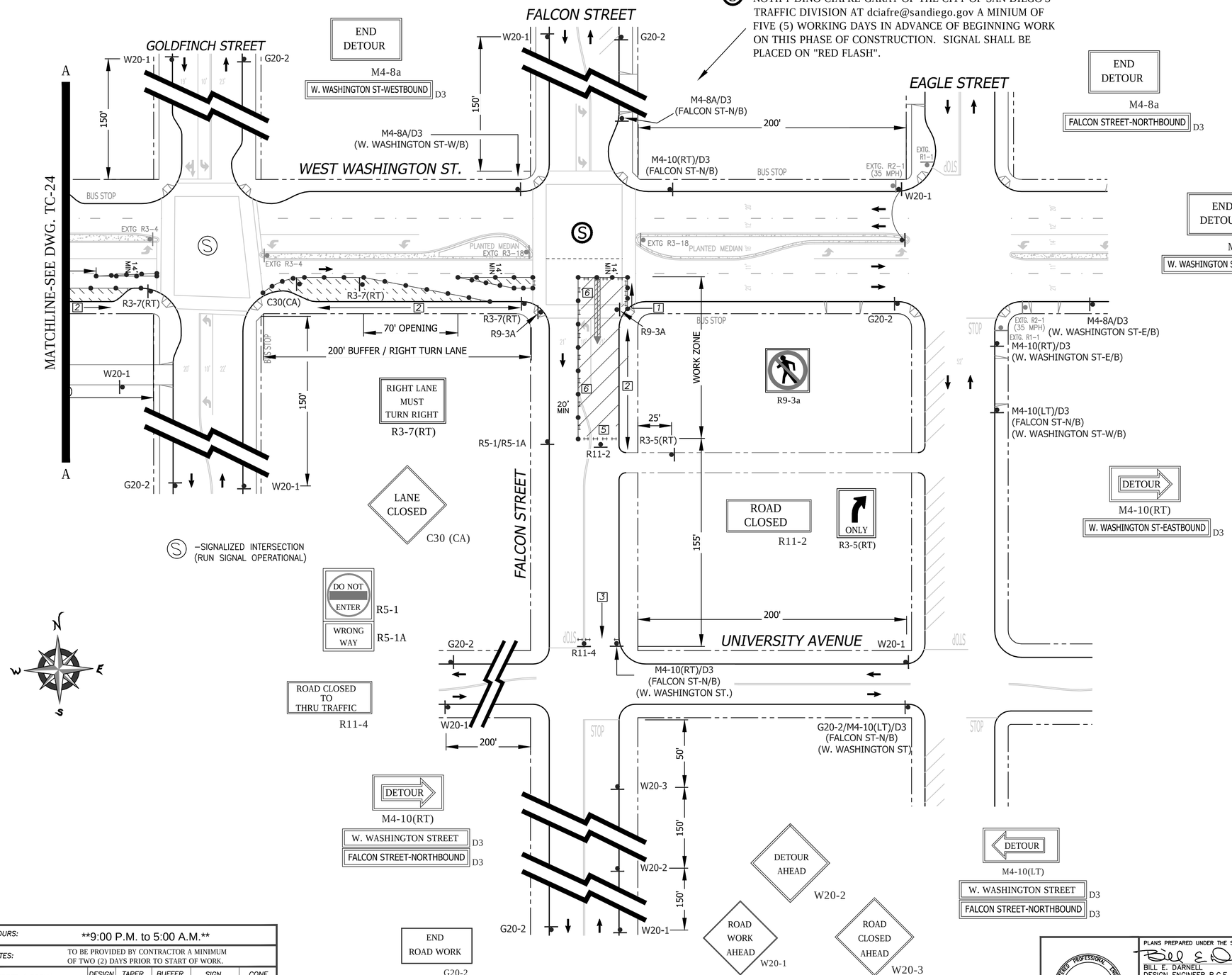
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T24-D

SEE DRAWING TC-24 FOR ACCOMPANYING DETOUR ROUTE

PHASE 12 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	SEE DWG.	25 FT
GOLDFINCH STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:1306016-1A | DATE:06/10/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 25

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT FALCON STREET
PHASE 12

CITY OF SAN DIEGO, CALIFORNIA
SHEET 25 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

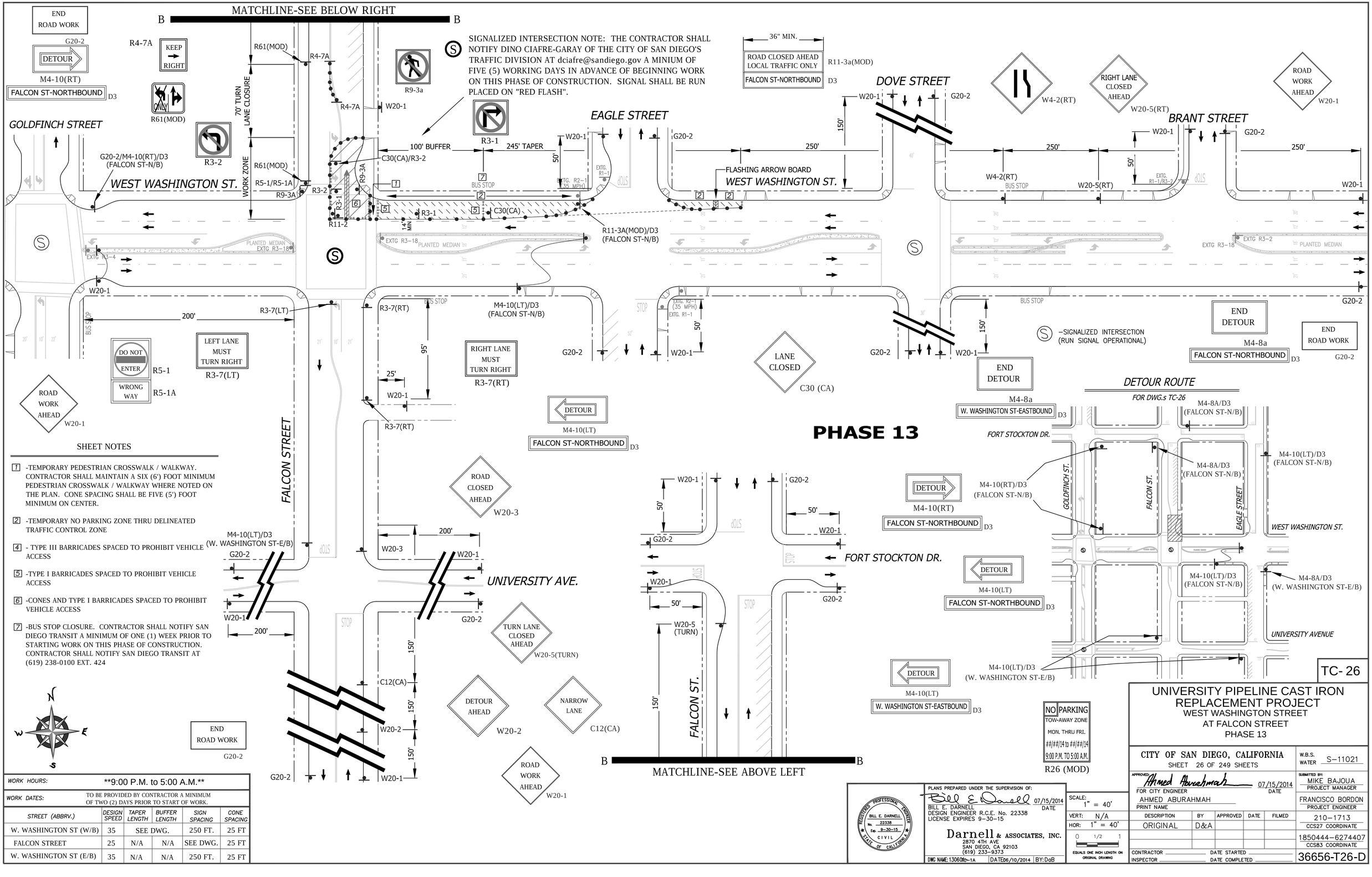
SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
1850444-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T25-D



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

END ROAD WORK G20-2

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FALCON STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060Gs-1A | DATE 06/10/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 26

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT FALCON STREET
PHASE 13

CITY OF SAN DIEGO, CALIFORNIA
SHEET 26 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

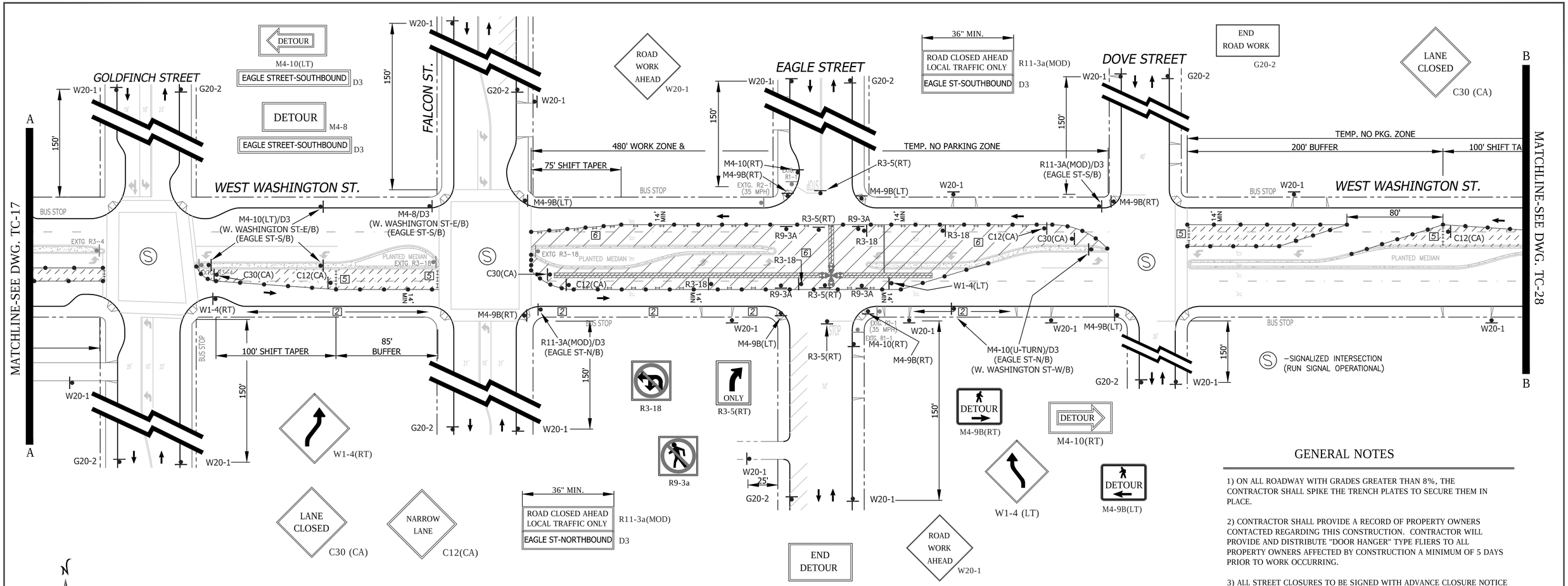
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

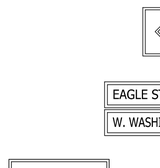
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

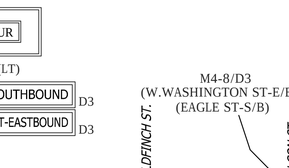
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

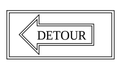
36656-T26-D

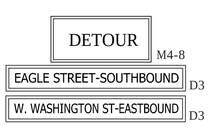


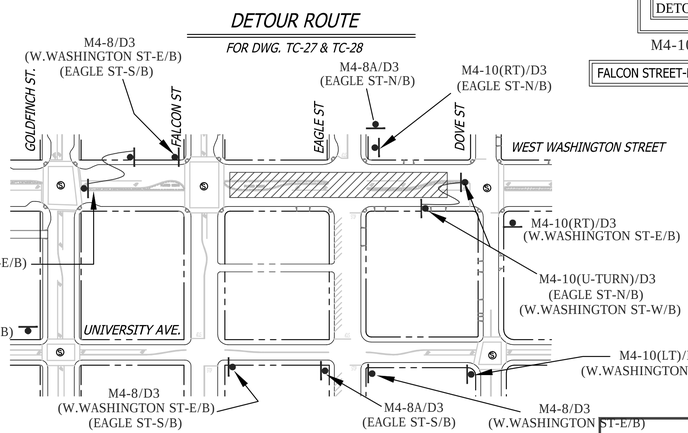
PHASE 14

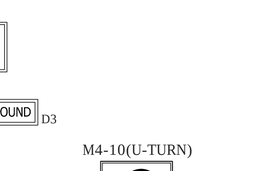












SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC- 27

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
FALCON STREET TO DOVE STREET
PHASE 14

CITY OF SAN DIEGO, CALIFORNIA
SHEET 27 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME
DATE

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

210–1713
CCS27 COORDINATE

1850444–6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T27-D

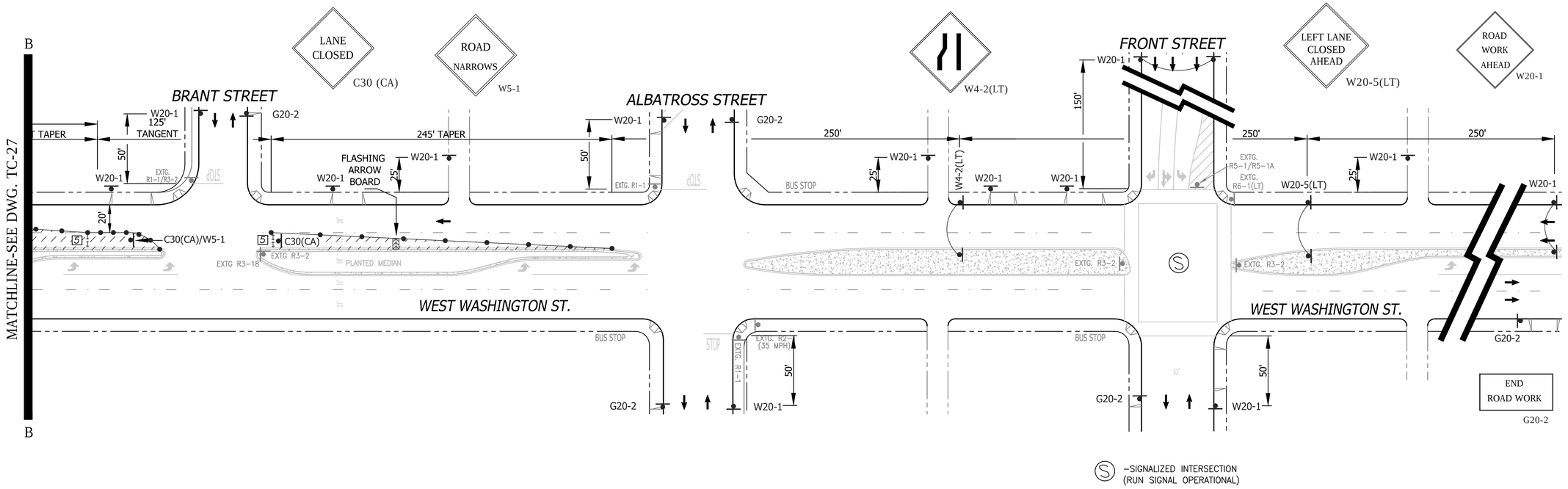
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME: 13060tb-1A | DATE 06/11/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9–30–15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 14 (CONTINUED)

SHEET NOTES

7 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 28

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
FALCON STREET TO DOVE STREET
(CONTINUATION SHEET FOR TC-26)
PHASE 14

CITY OF SAN DIEGO, CALIFORNIA
SHEET 28 OF 249 SHEETS

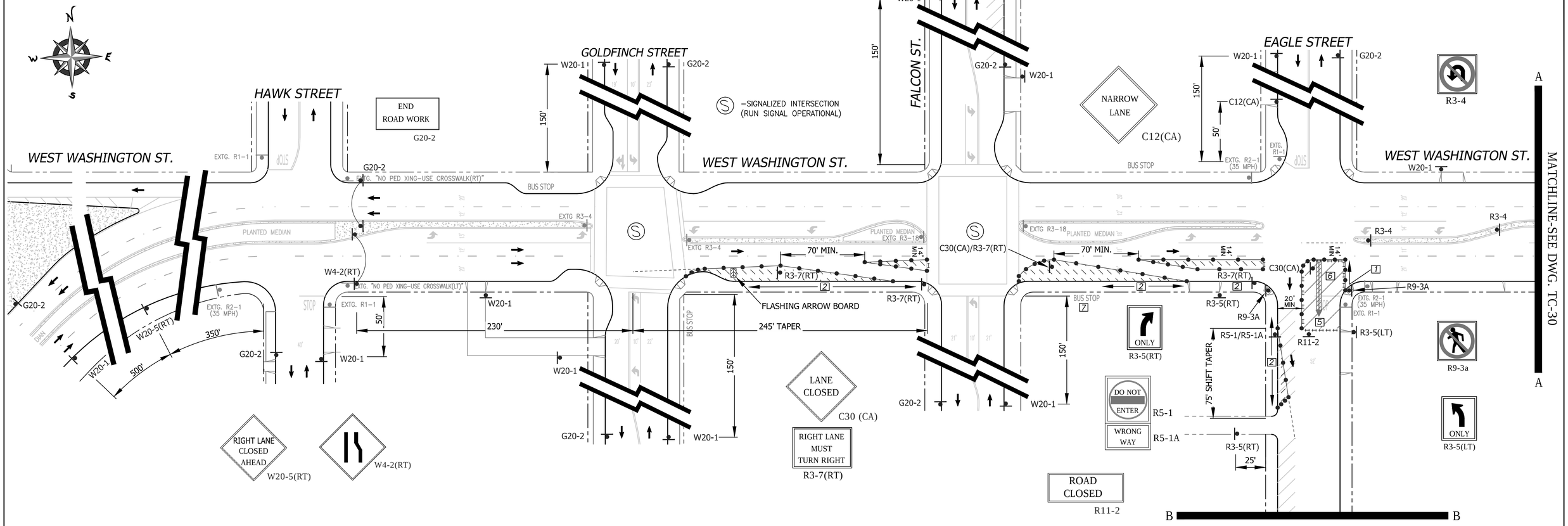
W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED
36656-T28-D



PHASE 15

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 - TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

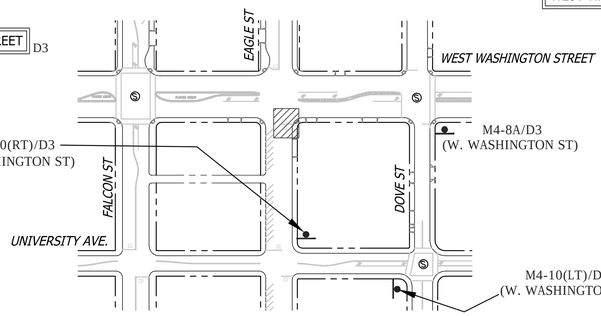
6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

DETOUR
M4-10(RT)
WEST WASHINGTON STREET D3

DETOUR
M4-10(LT)
WEST WASHINGTON STREET D3

DETOUR ROUTE

FOR DWG. TC-29 & T-30



END DETOUR
M4-8a
WEST WASHINGTON STREET D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 29

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT EAGLE STREET
PHASE 15

CITY OF SAN DIEGO, CALIFORNIA
SHEET 29 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME
DATE

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210–1713
CCS27 COORDINATE
1850444–6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T29-D

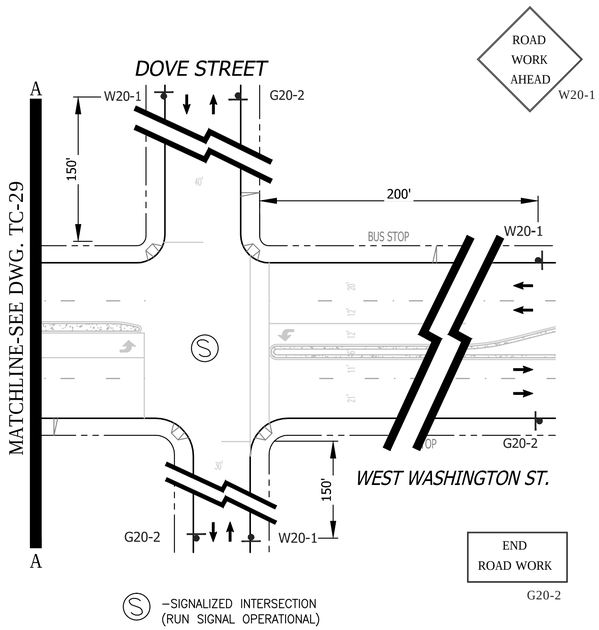
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9–30–15
CIVIL
STATE OF CALIFORNIA

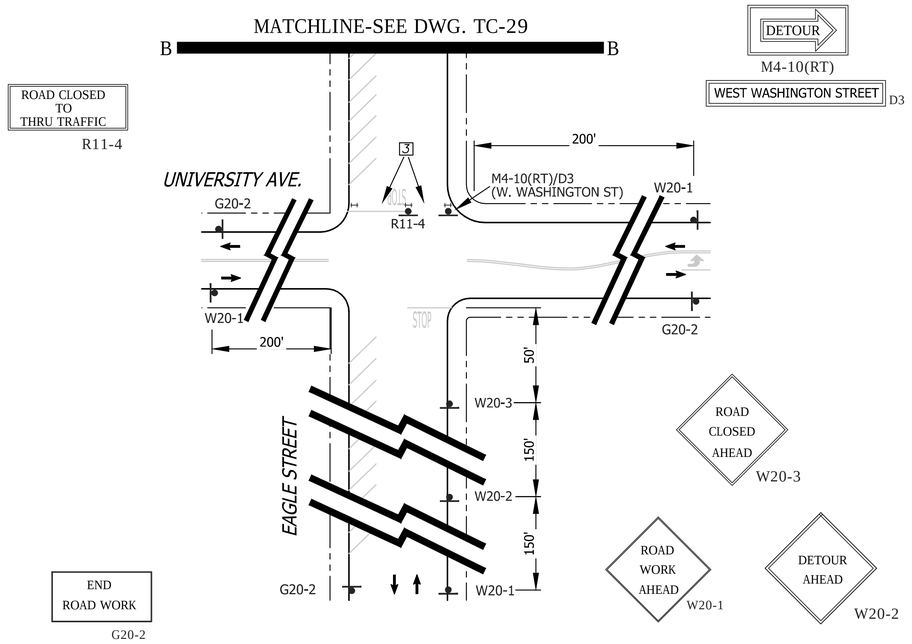
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME: 13060tc–1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING





PHASE 15 (CONTINUED)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 - TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	45	SEE DWG.		500 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tb-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 30

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT EAGLE STREET
(CONTINUATION SHEET FOR TC-29)
PHASE 15

CITY OF SAN DIEGO, CALIFORNIA
SHEET 30 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

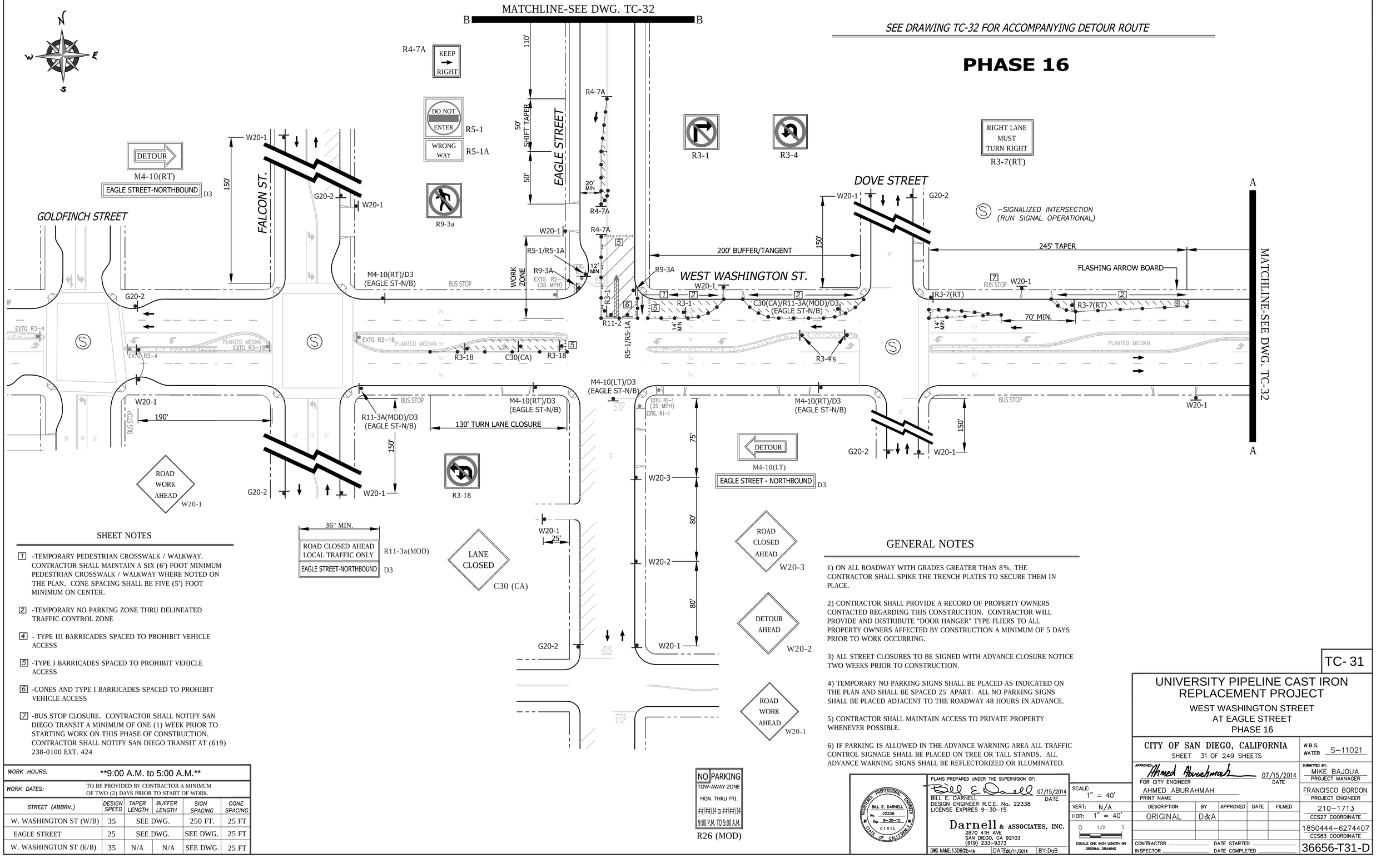
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T30-D



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 A.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060t-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 31

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT EAGLE STREET
PHASE 16

CITY OF SAN DIEGO, CALIFORNIA
SHEET 31 OF 249 SHEETS

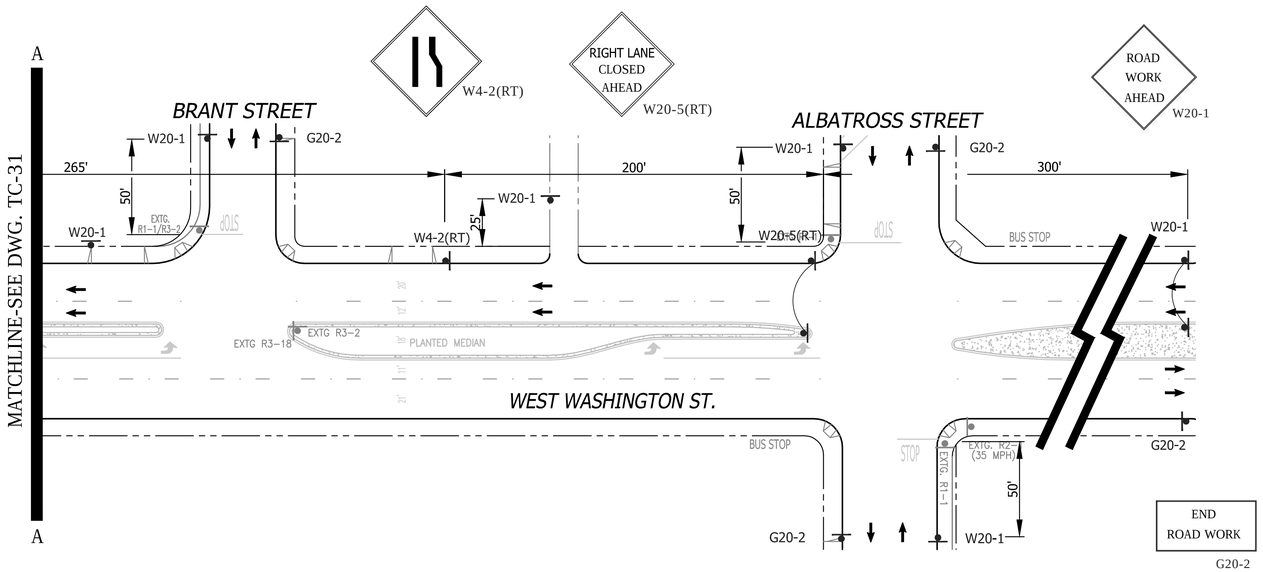
W.B.S. WATER S-11021

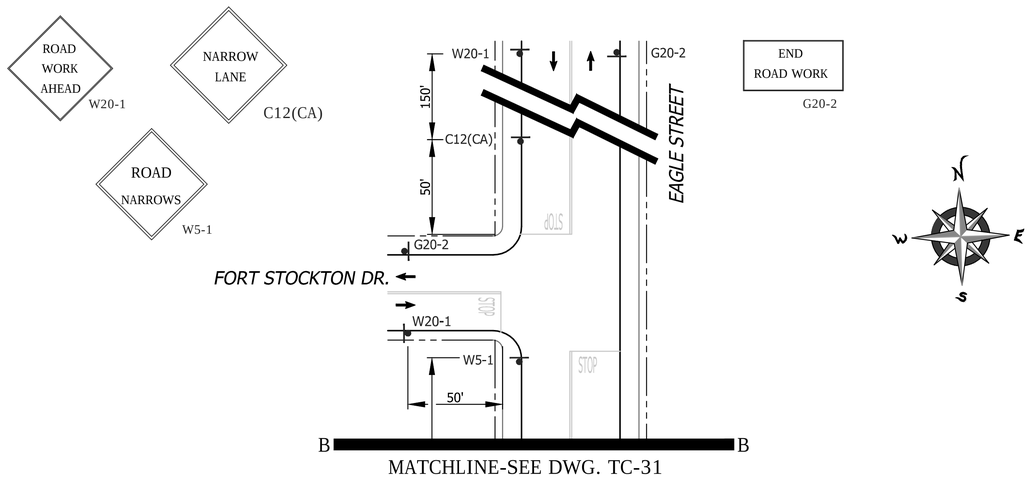
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T31-D





PHASE 16 (CONTINUED)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

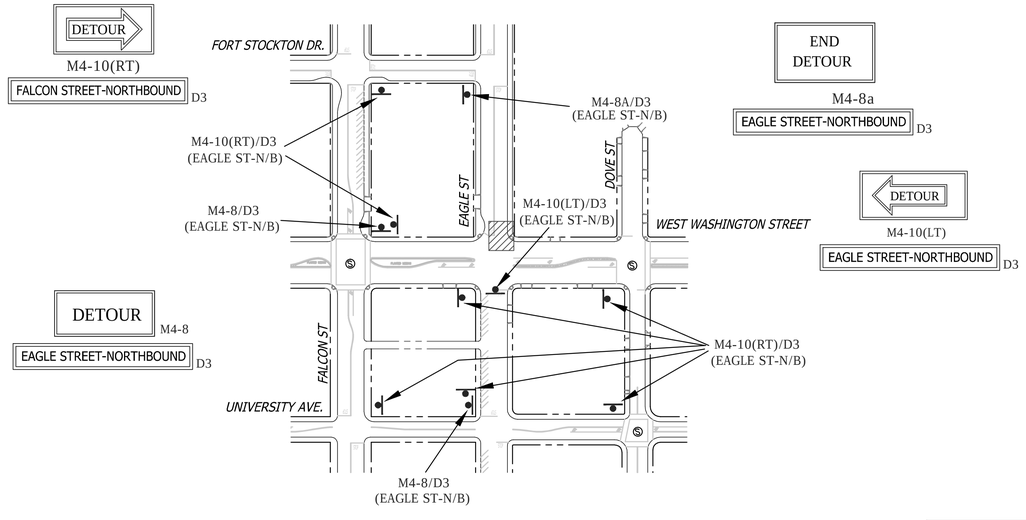
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	SEE DWG.	25 FT

DETOUR ROUTE

FOR DWG. T31 & T32



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

TC- 32

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT EAGLE STREET
(CONTINUATION SHEET FOR TC-31) PHASE 16

CITY OF SAN DIEGO, CALIFORNIA
SHEET 32 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T32-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

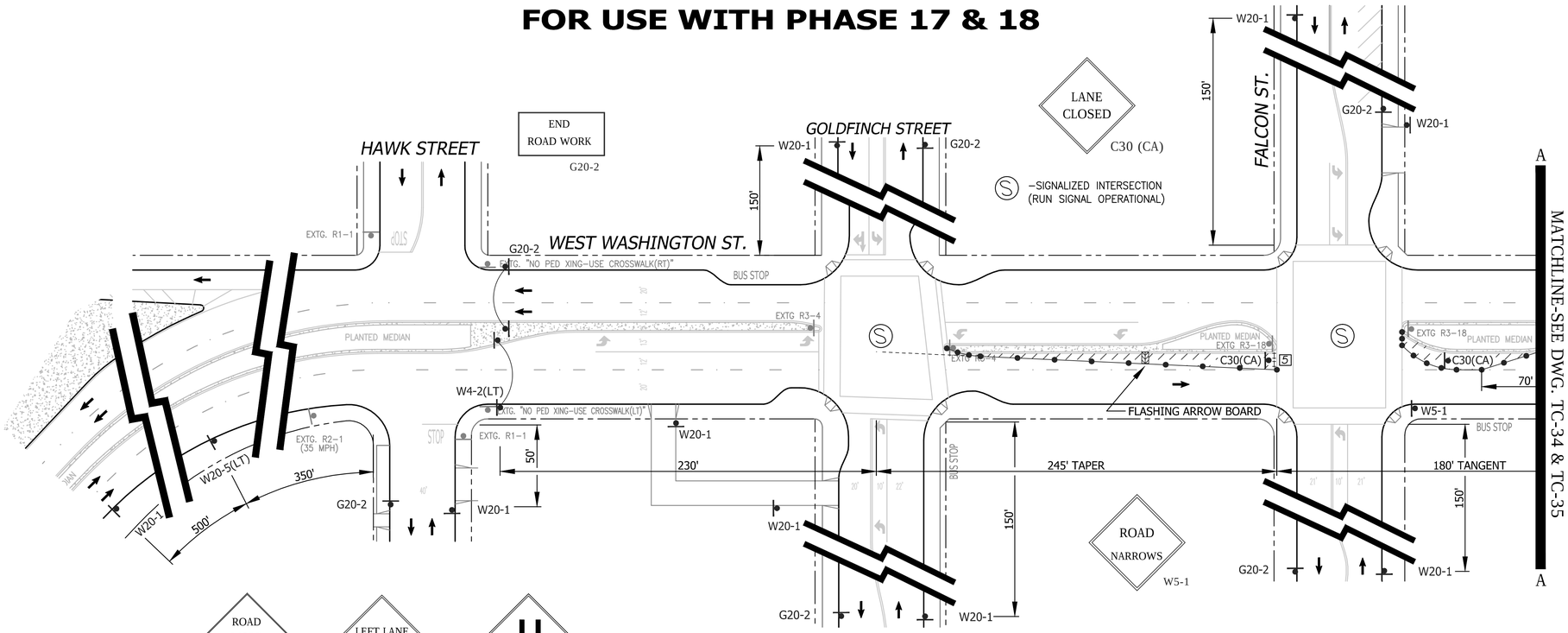
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

FOR USE WITH PHASE 17 & 18



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
EAGLE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 33

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET
PHASE 17

CITY OF SAN DIEGO, CALIFORNIA
SHEET 33 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

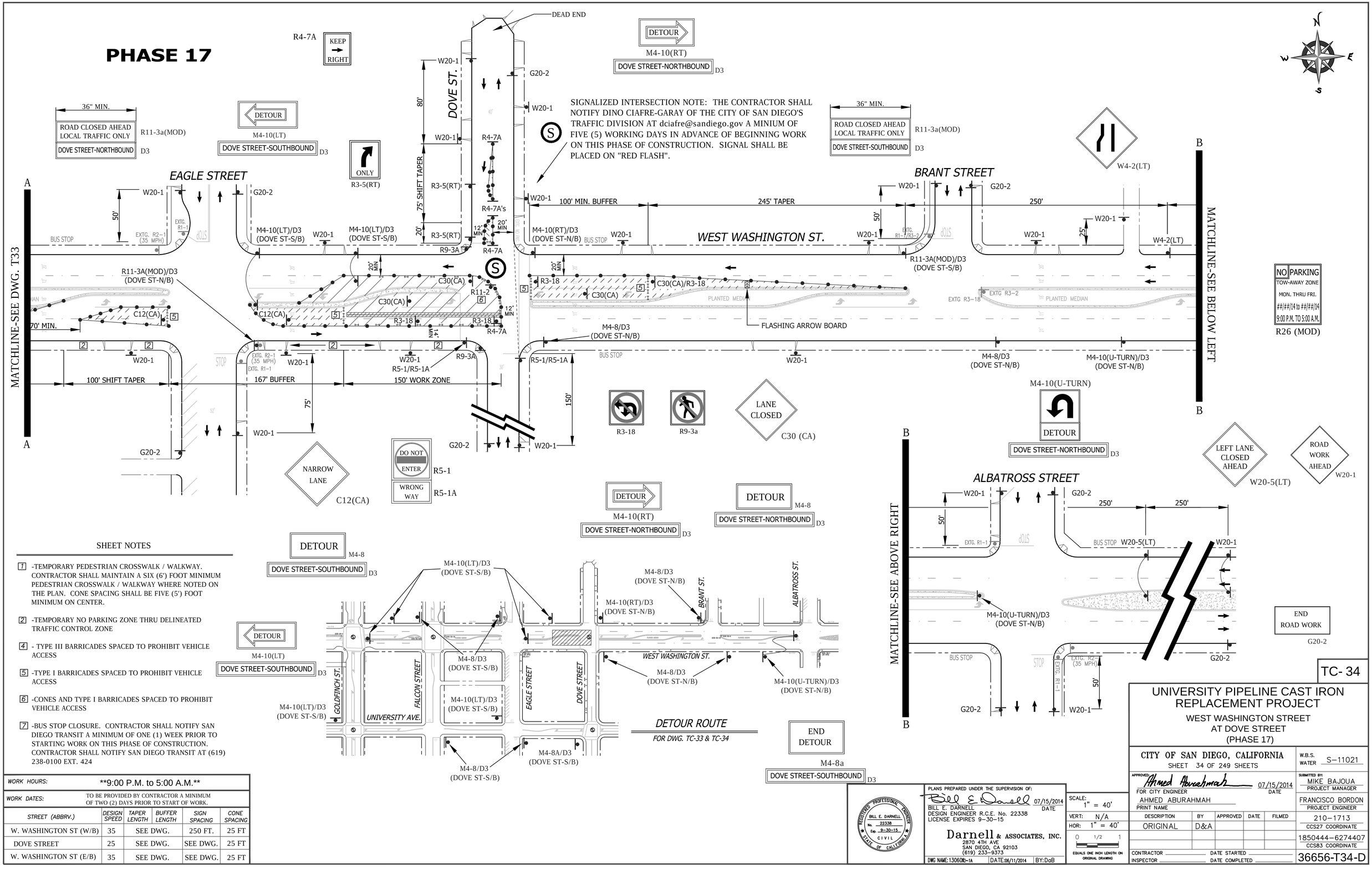
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T33-D

PHASE 17



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
7. -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT	
DOVE STREET	25	SEE DWG.	SEE DWG.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	SEE DWG.	25 FT	

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600b-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 34

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET
(PHASE 17)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 34 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

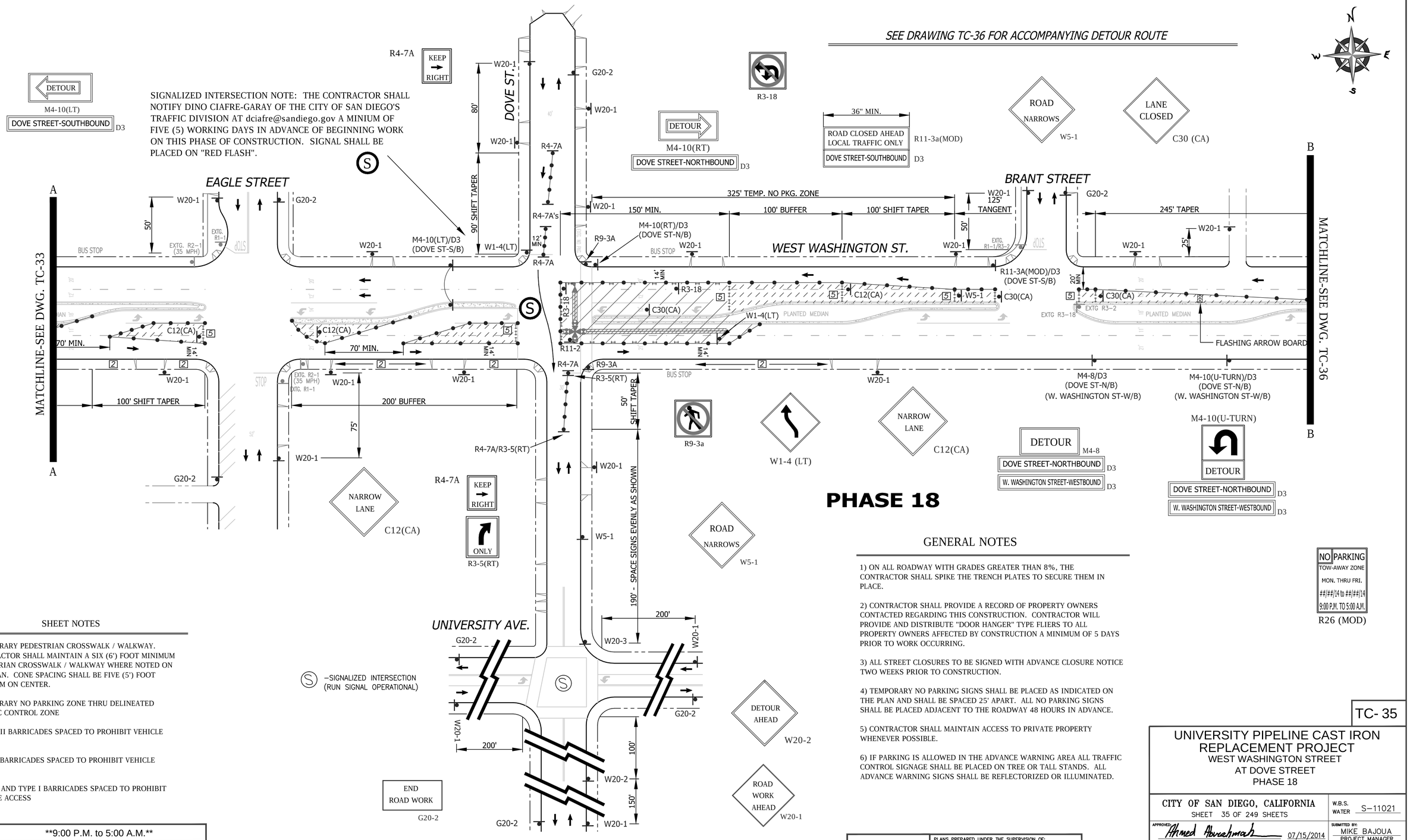
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
1850444-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T34-D



PHASE 18

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 35

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT DOVE STREET
PHASE 18

CITY OF SAN DIEGO, CALIFORNIA
SHEET 35 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

210–1713 CCS27 COORDINATE
185044–6274407 CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T35-D

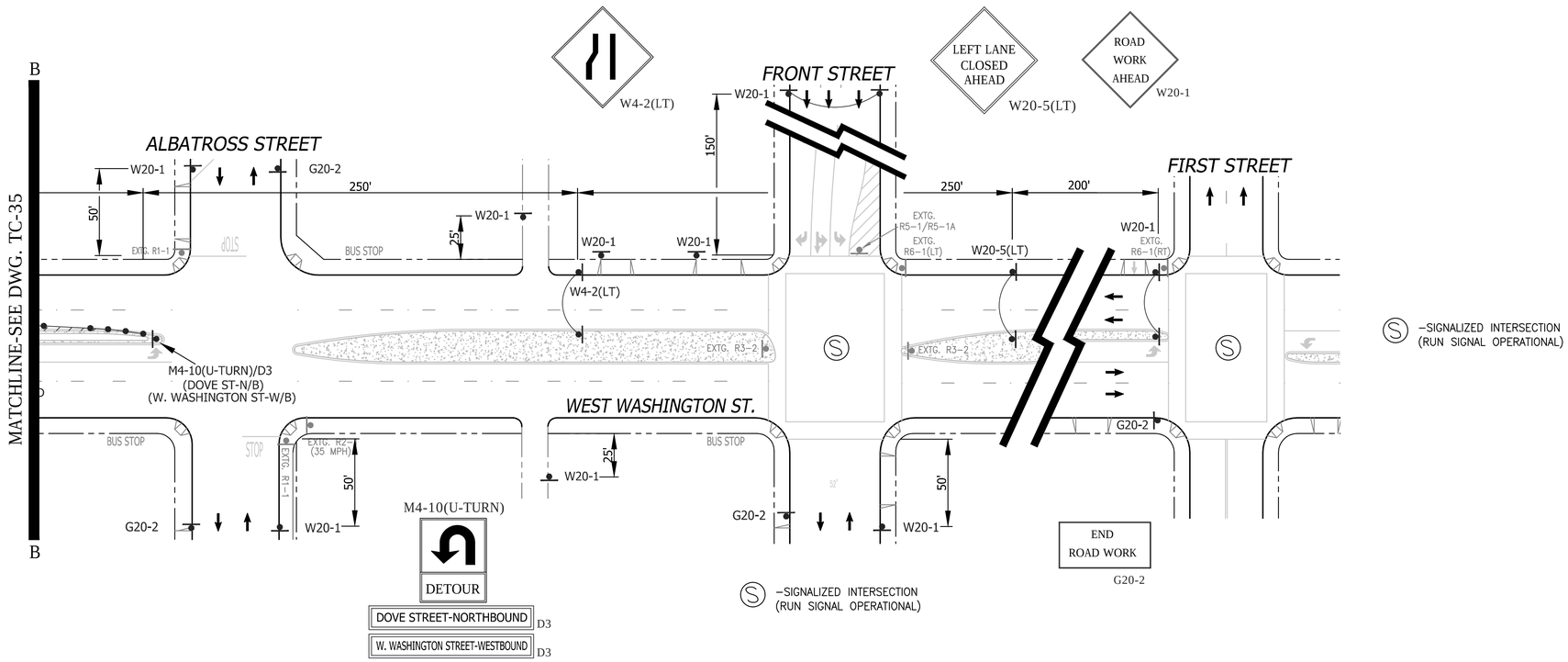
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

DWG NAME: 130601b–1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

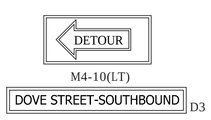
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

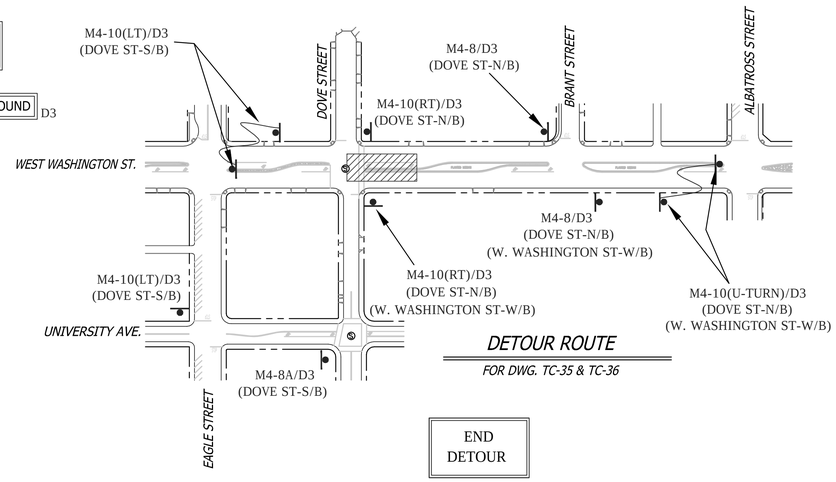
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

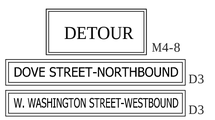
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

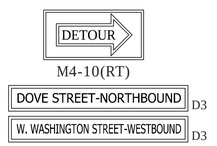
6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PHASE 18 (CONTINUED)









SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

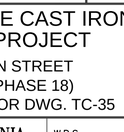
2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		SEE DWG.	25 FT



TC- 36

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT DOVE STREET (PHASE 18)
CONTINUATION SHEET FOR DWG. TC-35

CITY OF SAN DIEGO, CALIFORNIA
SHEET 36 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T36-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

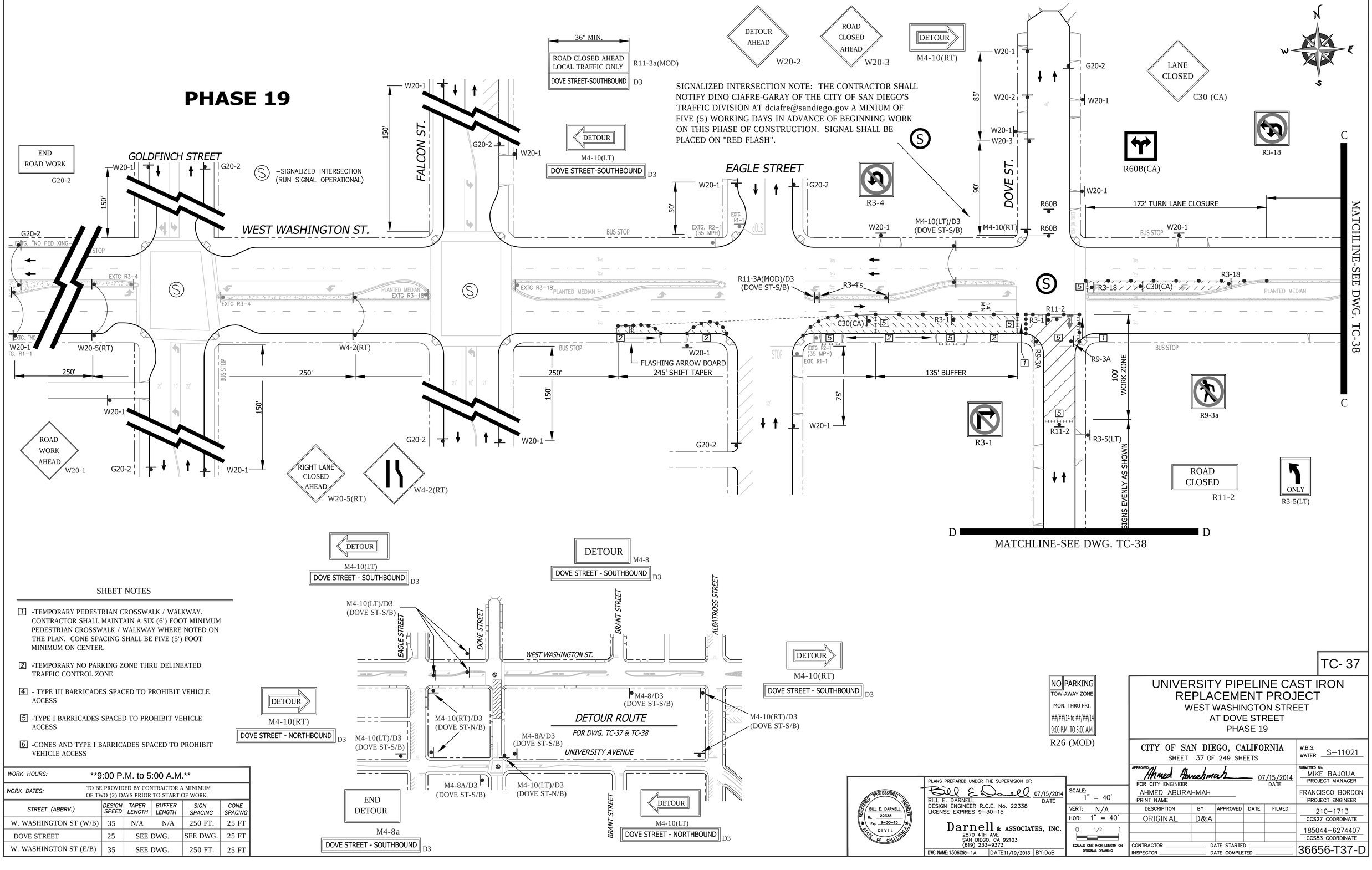
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 19



SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 37

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET
PHASE 19

CITY OF SAN DIEGO, CALIFORNIA
SHEET 37 OF 249 SHEETS

W.B.S. WATER S–11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER AHMED ABURAHMAH PRINT NAME — 07/15/2014 DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER

FRANCISCO BORDON PROJECT ENGINEER

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9–30–15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233–9373

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9–30–15 CIVIL — STATE OF CALIFORNIA

DWG NAME: 130603s–1A | DATE 11/19/2013 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

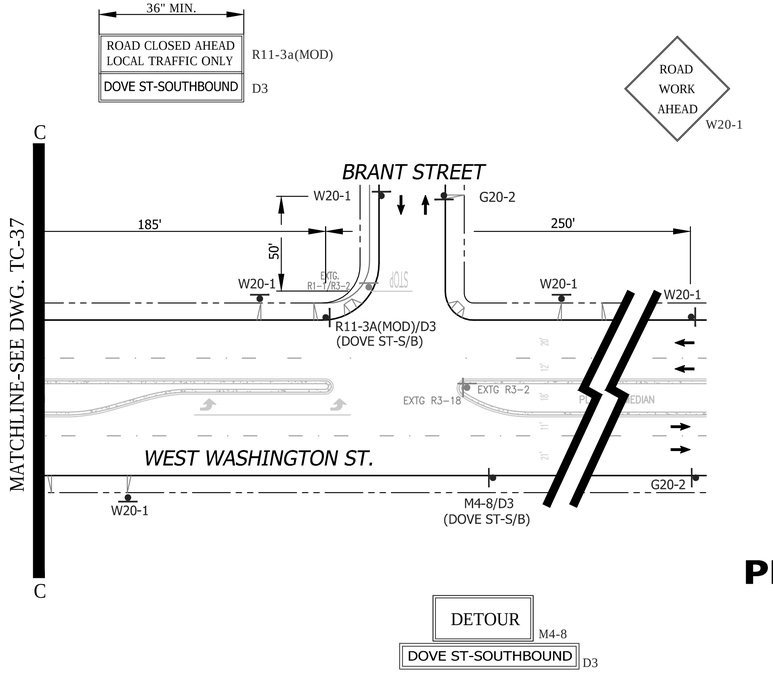
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

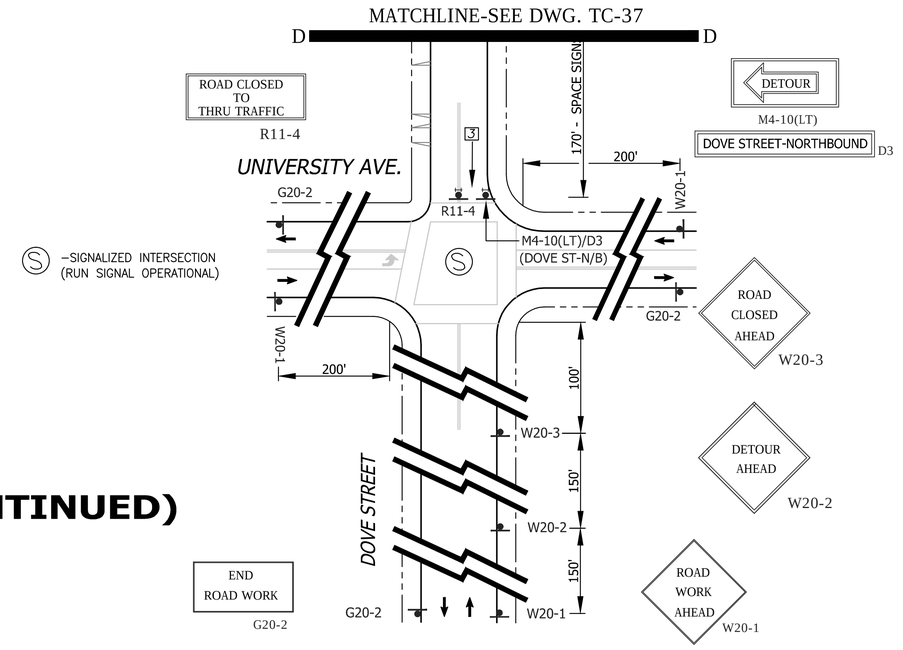
210–1713 CCS27 COORDINATE

185044–6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T37-D





PHASE 19(CONTINUED)

SEE DRAWING TC-37 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:1306086-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 38

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT DOVE STREET (PHASE 19)
CONTINUATION SHEET FOR DWG. TC-37

CITY OF SAN DIEGO, CALIFORNIA
SHEET 38 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

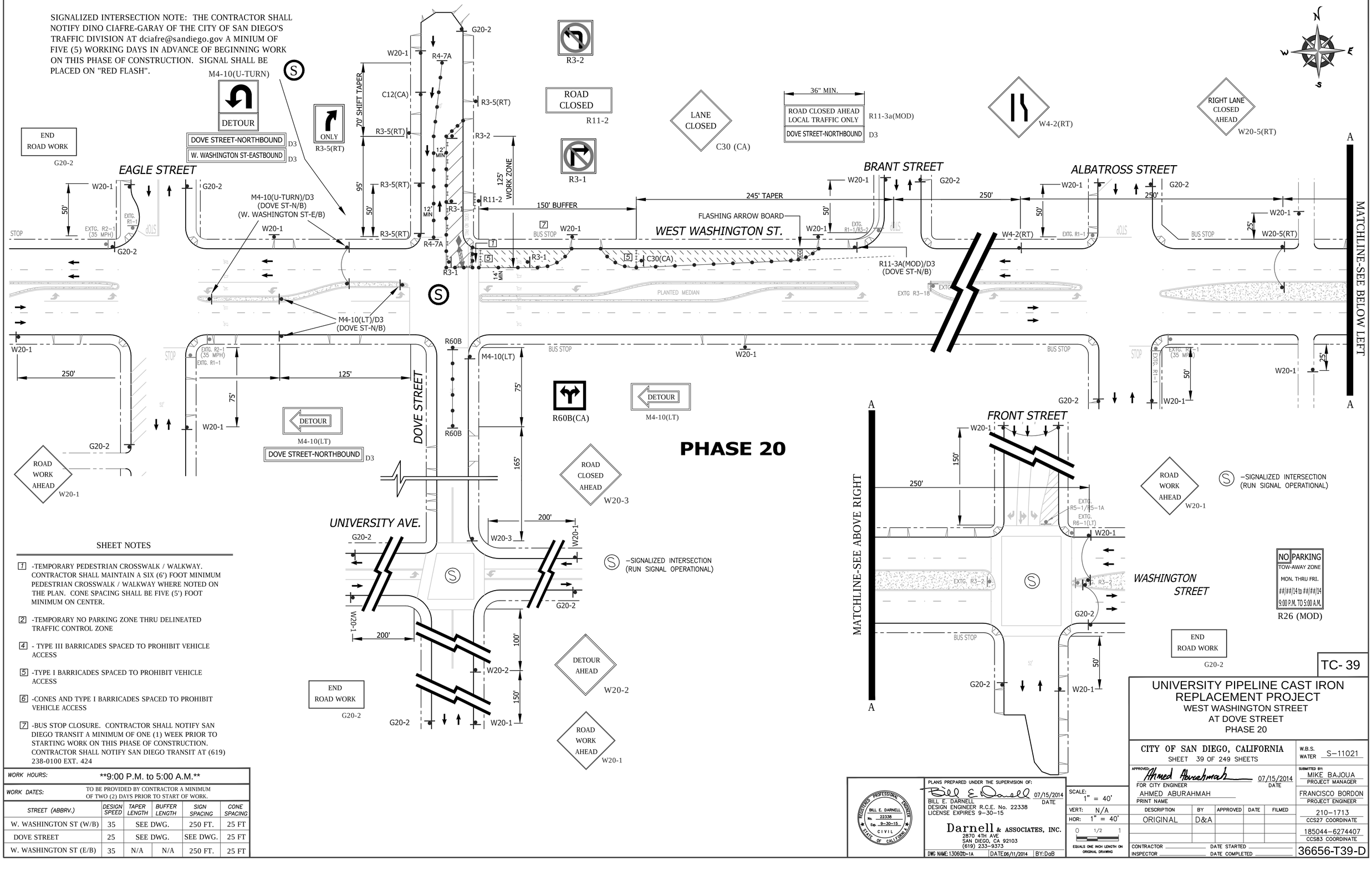
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T38-D

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



PHASE 20

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 39

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET AT DOVE STREET PHASE 20

CITY OF SAN DIEGO, CALIFORNIA
SHEET 39 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

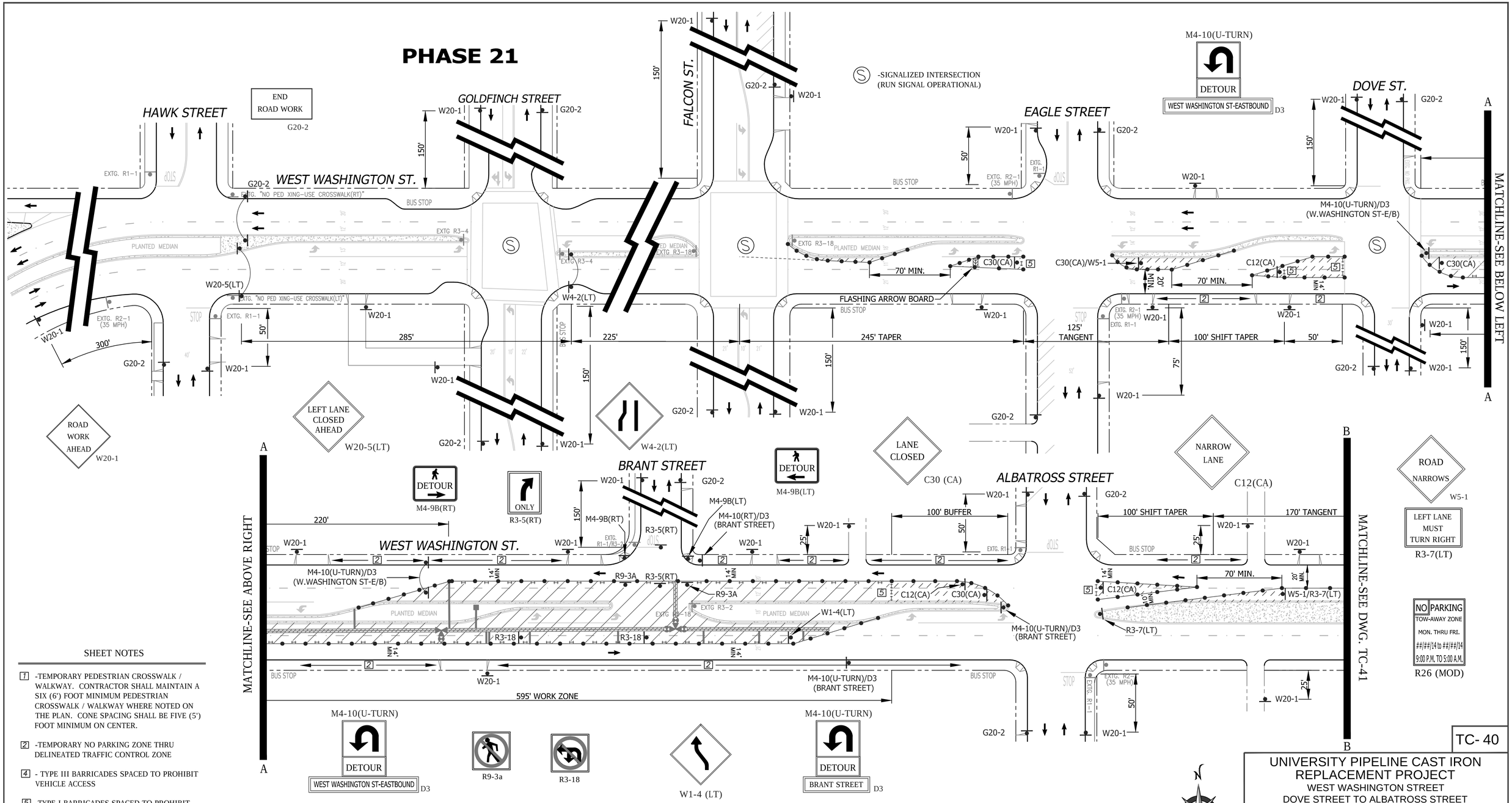
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
185044-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T39-D

PHASE 21



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

TC- 40

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
DOVE STREET TO ALBATROSS STREET
PHASE 21

CITY OF SAN DIEGO, CALIFORNIA
SHEET 40 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah — 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
185044-6274407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T40-D

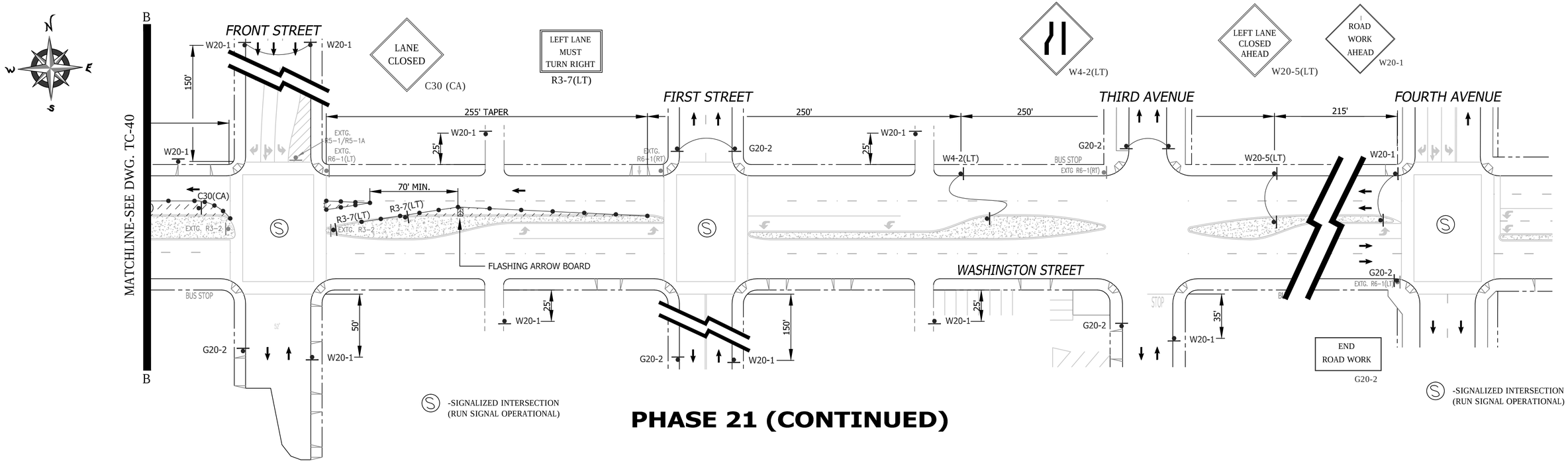
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell — 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 21 (CONTINUED)

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601b-1A | DATE:06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 41

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
CONTINUATION SHEET FOR DWG. T40
PHASE 21

CITY OF SAN DIEGO, CALIFORNIA
SHEET 41 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

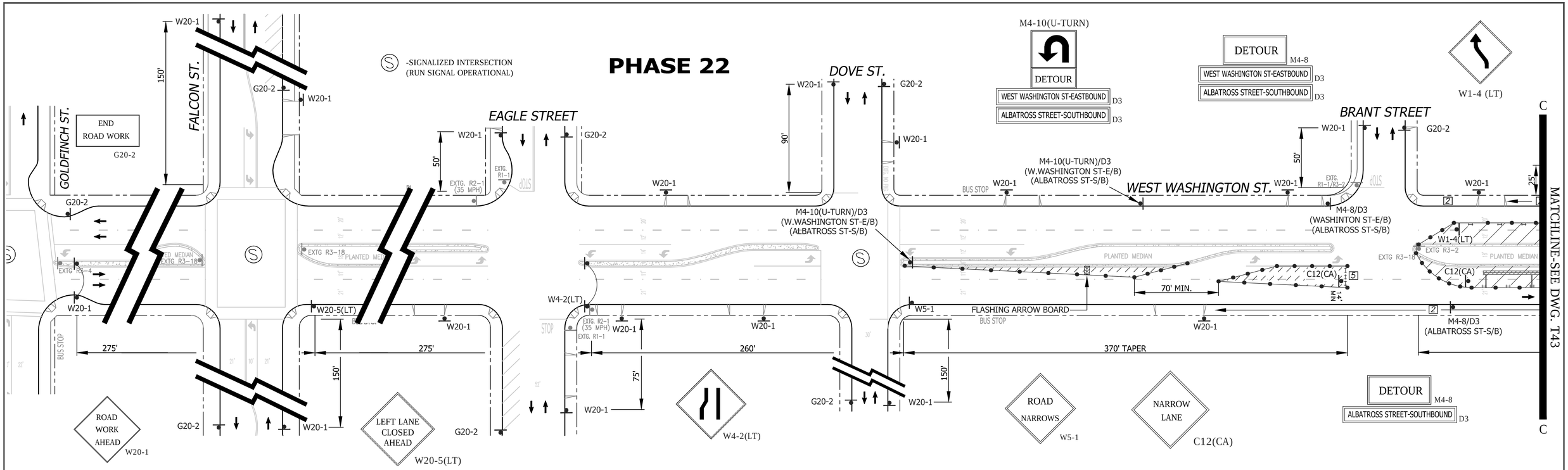
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T41-D



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tb-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 42

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
BRANT STREET TO FRONT STREET
PHASE 22

CITY OF SAN DIEGO, CALIFORNIA
SHEET 42 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

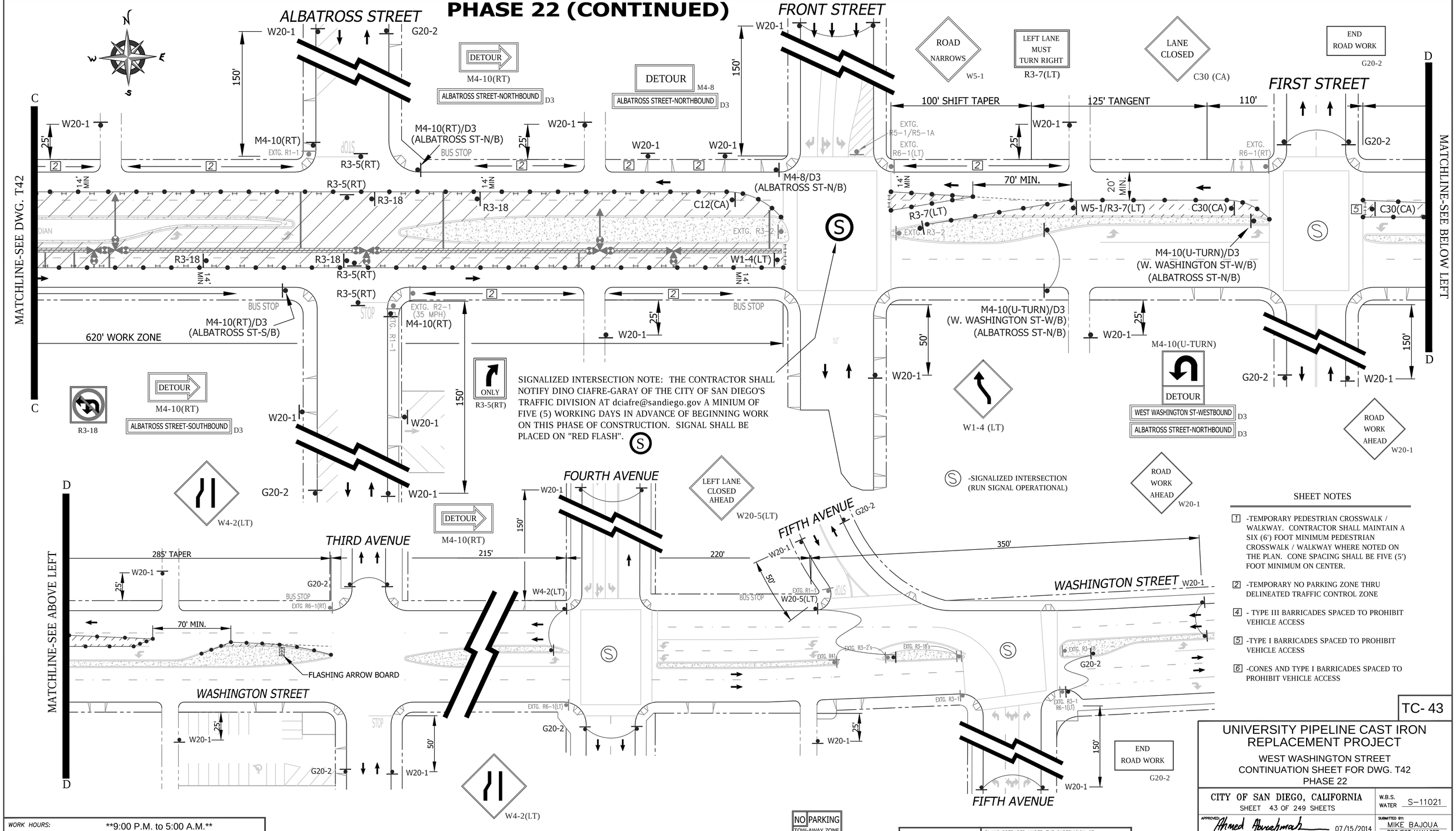
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T42-D

PHASE 22 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 43

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
CONTINUATION SHEET FOR DWG. T42
PHASE 22

CITY OF SAN DIEGO, CALIFORNIA
SHEET 43 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

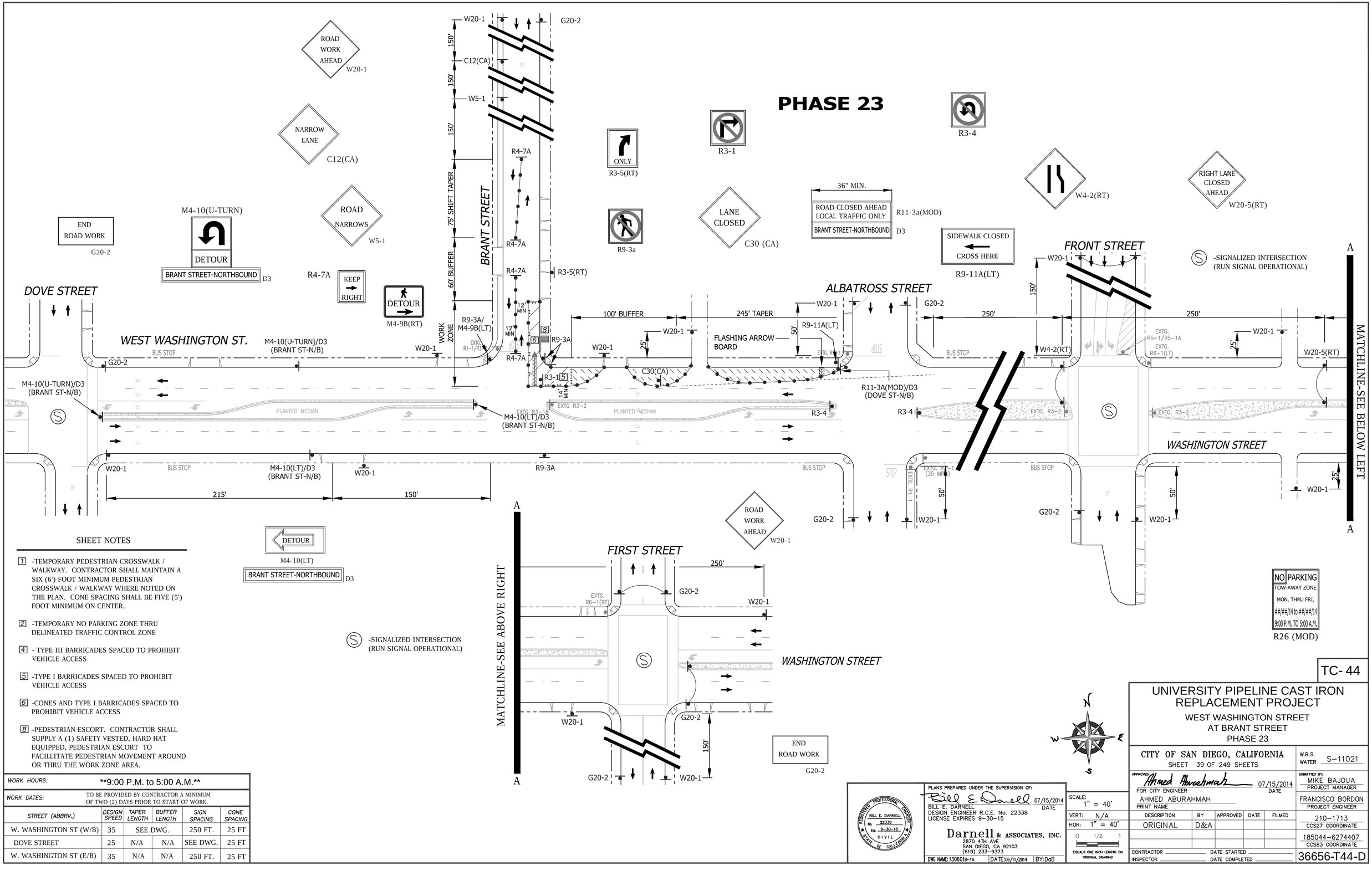
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T43-D

PHASE 23



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A (1) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

TC- 44

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT BRANT STREET
PHASE 23

CITY OF SAN DIEGO, CALIFORNIA
SHEET 39 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T44-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

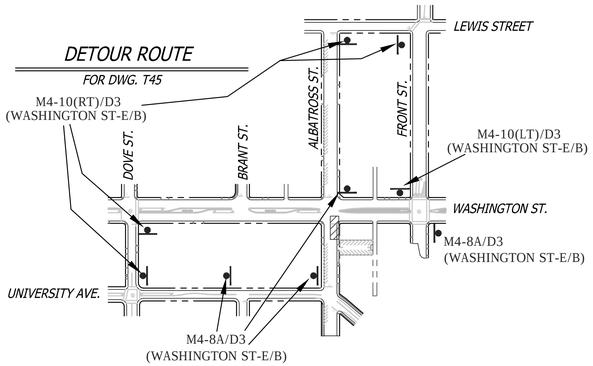
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

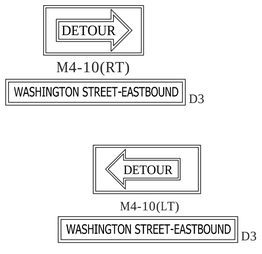
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

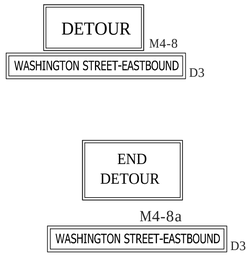
DWG NAME: 13060T6-1A | DATE: 06/11/2014 | BY: DaB

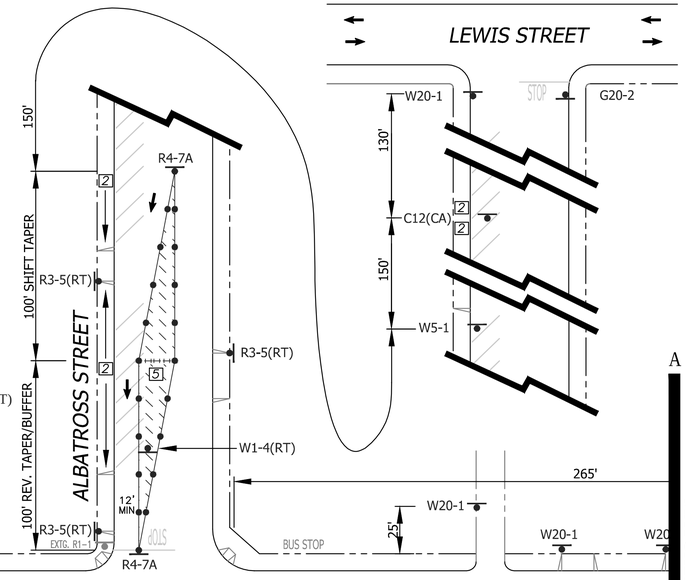
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

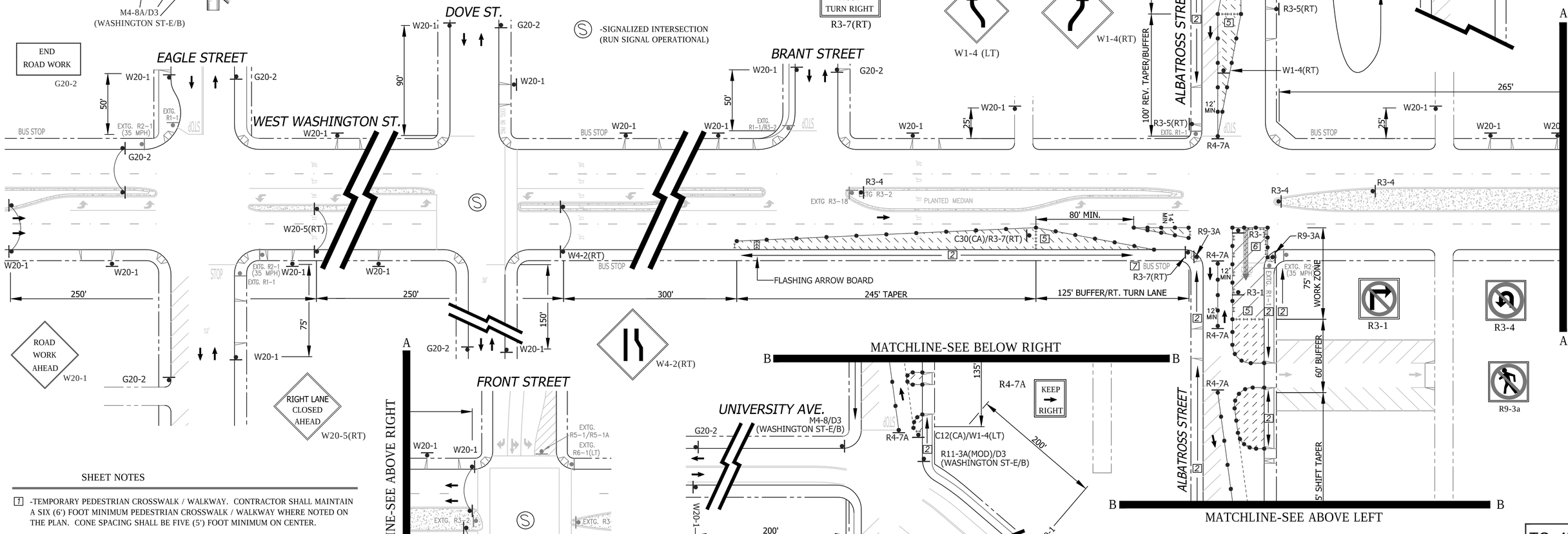
PHASE 24











SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 45

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT ALBATROSS STREET
PHASE 24

CITY OF SAN DIEGO, CALIFORNIA
SHEET 45 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T45-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

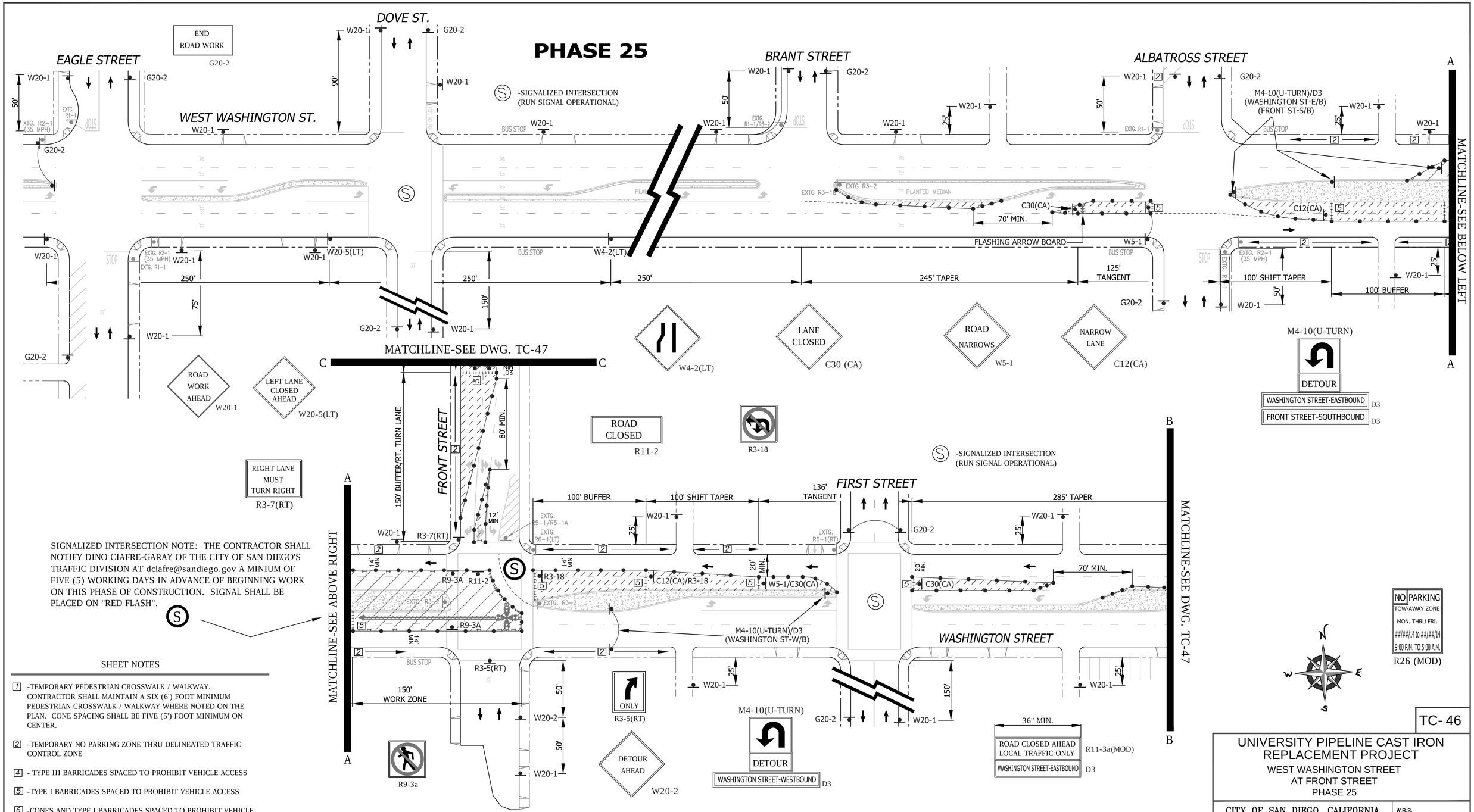
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 25



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	250 FT.	25 FT
FRONT STREET	25	SEE DWG.	SEE DWG.	250 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130607D-1A | DATE: 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 46

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FRONT STREET
PHASE 25

CITY OF SAN DIEGO, CALIFORNIA
SHEET 46 OF 249 SHEETS

W.B.S. WATER S-11021

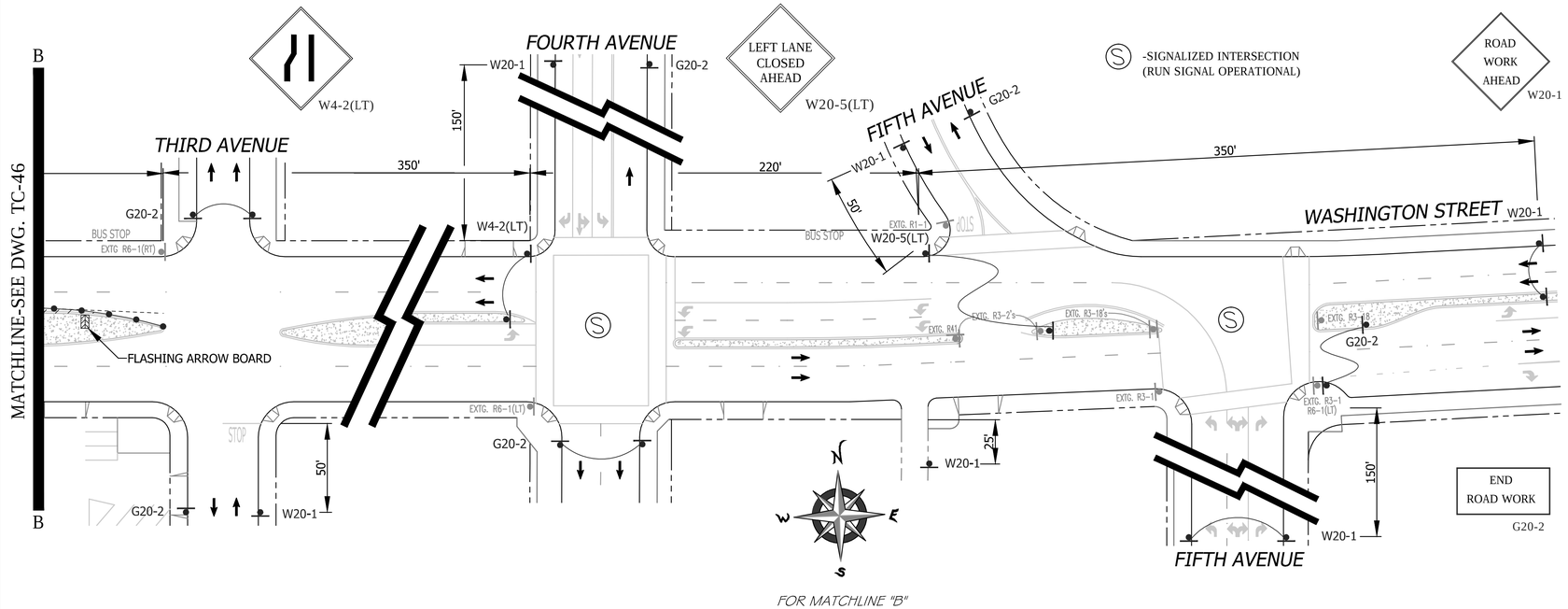
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

210-1713 CCS27 COORDINATE
185044-6274407 CCS83 COORDINATE
36656-T46-D



FOR MATCHLINE "B"

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

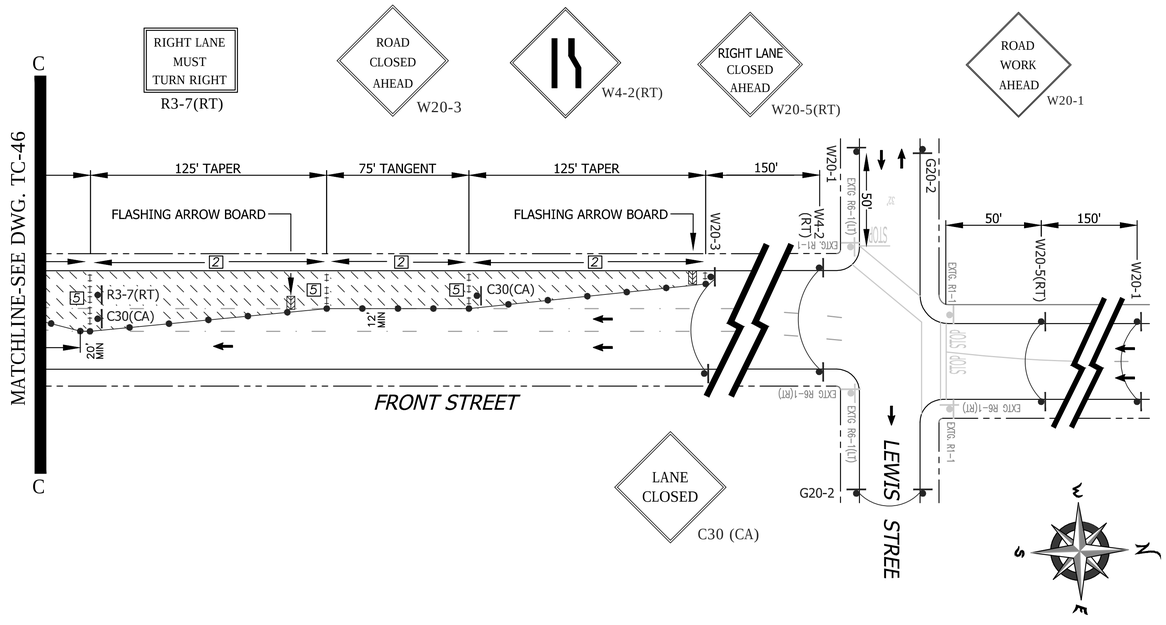
2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 25 (CONTINUED)



FOR MATCHLINE "C"

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE RELECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306003-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 47

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FRONT STREET - PHASE 25
CONTINUATION SHEET FOR DWG. TC-46

CITY OF SAN DIEGO, CALIFORNIA
SHEET 47 OF 249 SHEETS

W.B.S. WATER S-11021

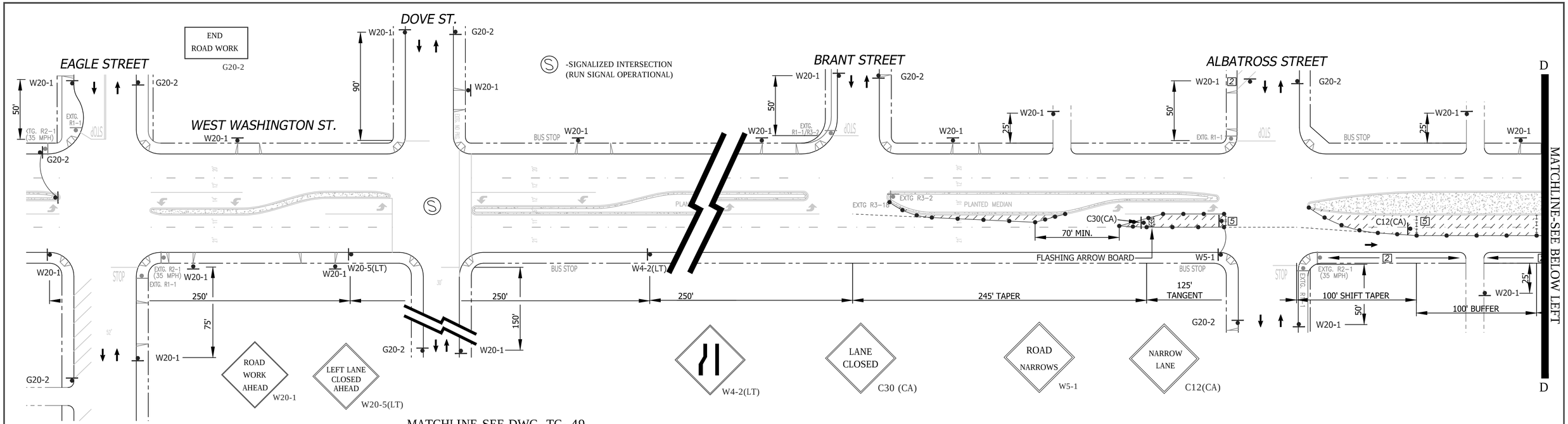
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

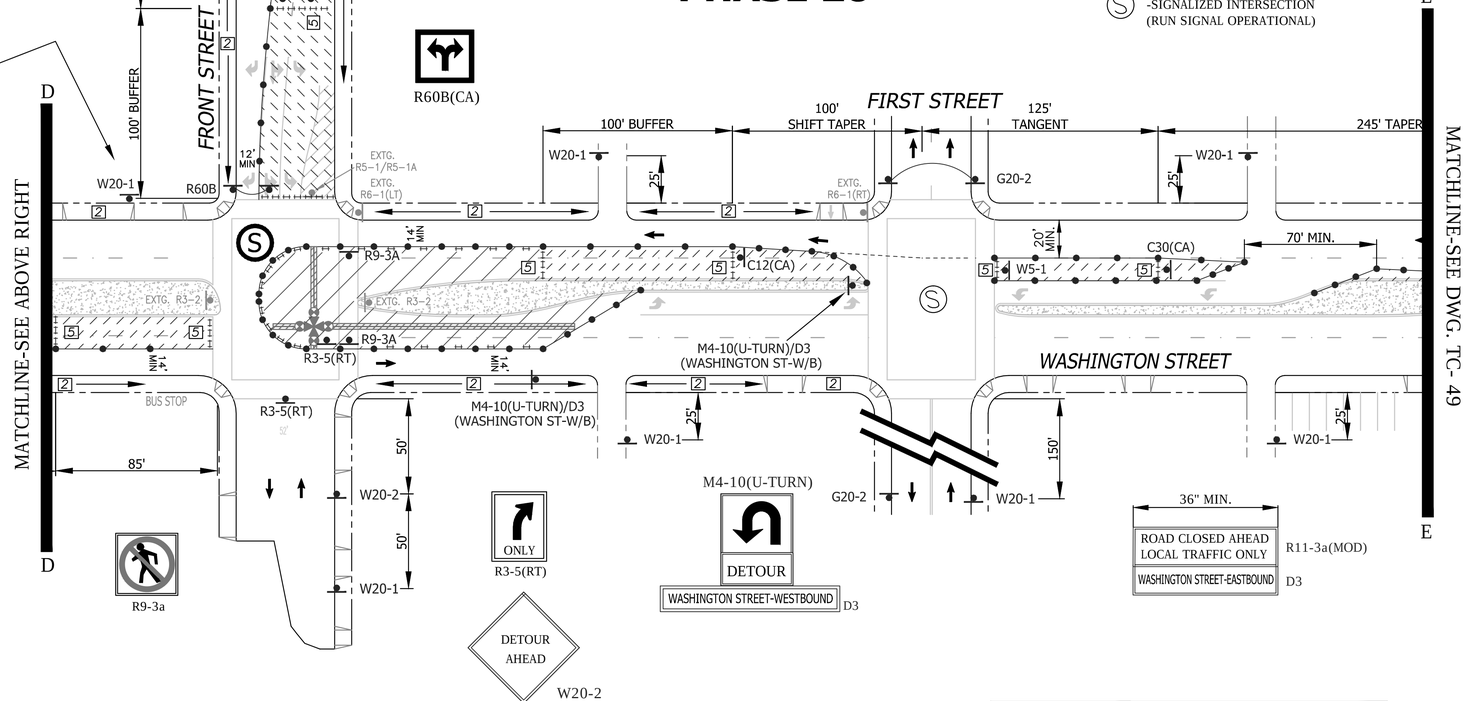
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T47-D



MATCHLINE-SEE DWG. TC- 49



PHASE 26

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**			
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.			
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT
FRONT STREET	25	SEE DWG.	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/11/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 48

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT
WEST WASHINGTON STREET
AT FRONT STREET
PHASE 26

CITY OF SAN DIEGO, CALIFORNIA
SHEET 48 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

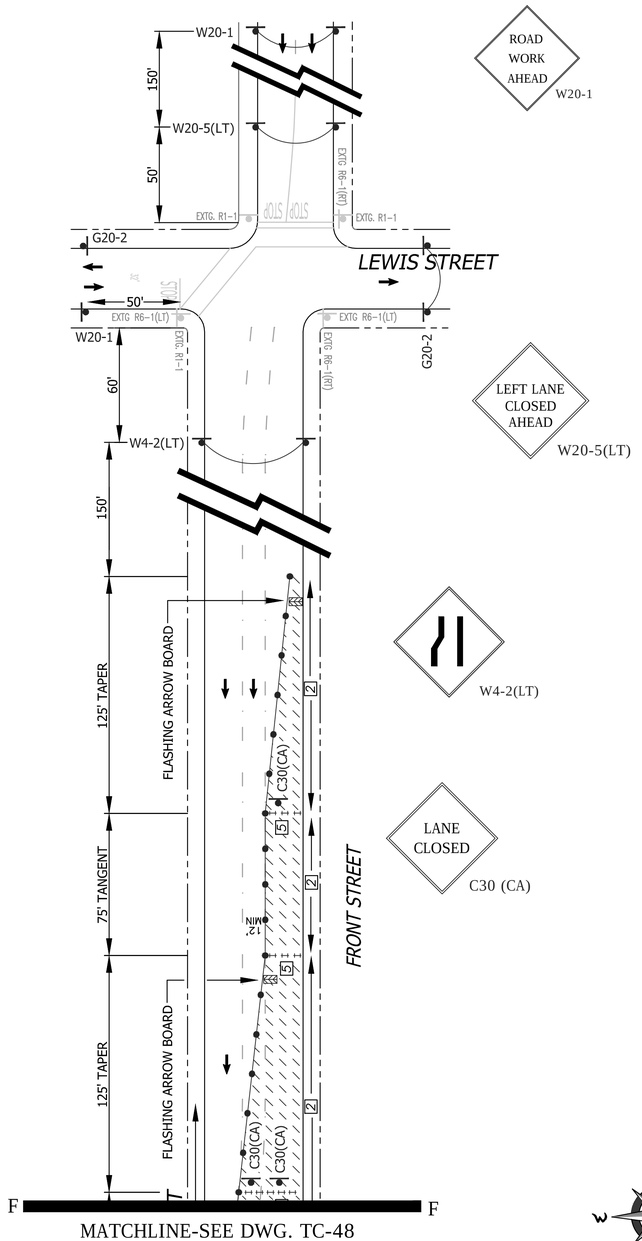
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

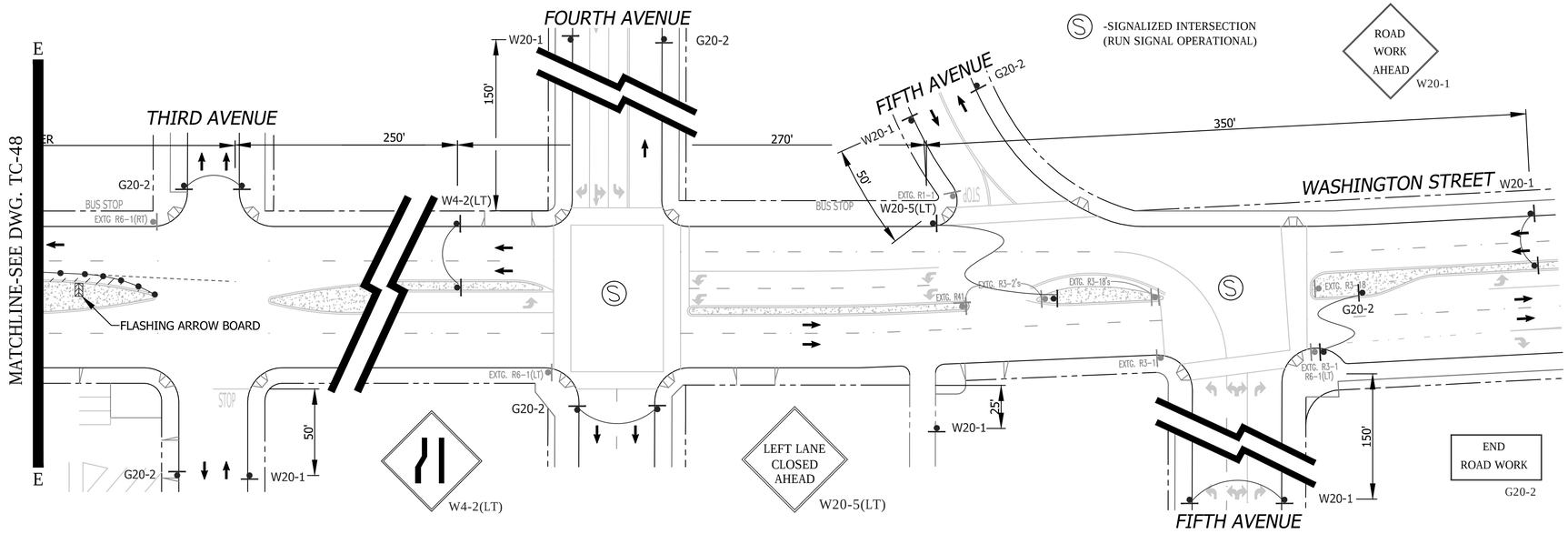
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T48-D





PHASE 26 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
DOVE STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306019-1A | DATE:06/11/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 49

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WEST WASHINGTON STREET
AT FRONT STREET - PHASE 26
CONTINUATION SHEET FOR DWG. TC-48

CITY OF SAN DIEGO, CALIFORNIA
SHEET 49 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

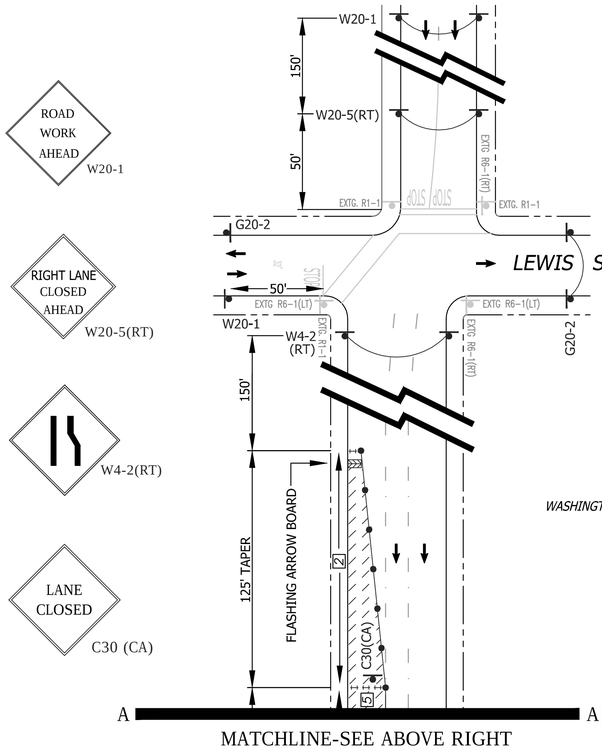
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713 CCS27 COORDINATE
185044-6274407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T49-D

PHASE 27



MATCHLINE-SEE ABOVE RIGHT

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

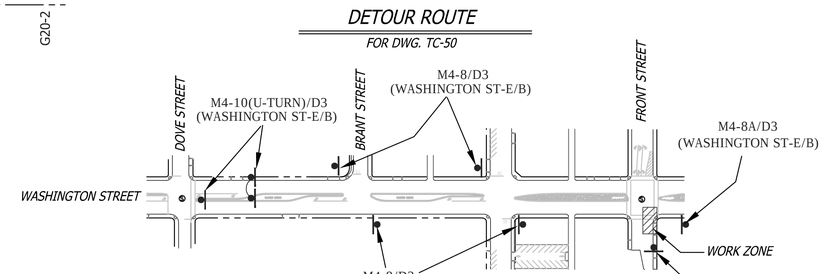
LANE CLOSED C30 (CA)

DETOUR M4-8 WASHINGTON STREET - EASTBOUND D3

END DETOUR M4-8a WASHINGTON STREET - EASTBOUND D3

DETOUR ROUTE

FOR DWG. TC-50



M4-10(U-TURN) DETOUR

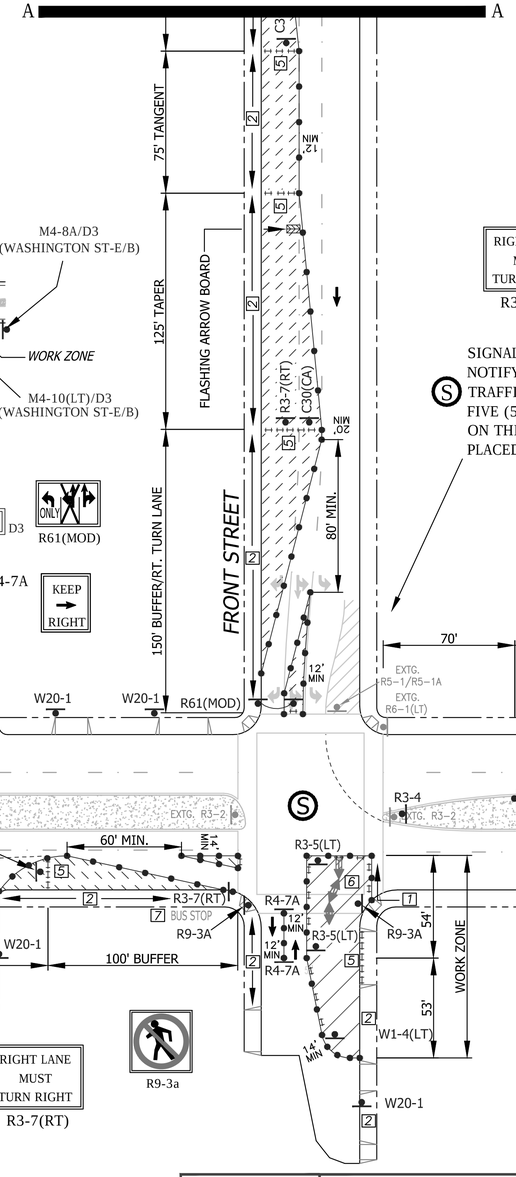
DETOUR M4-10(LT) WASHINGTON STREET - EASTBOUND D3

R61(MOD)

R4-7A KEEP RIGHT

R3-4

MATCHLINE-SEE BELOW LEFT



RIGHT LANE MUST TURN RIGHT R3-7(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

R3-4

ROAD WORK AHEAD W20-1

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

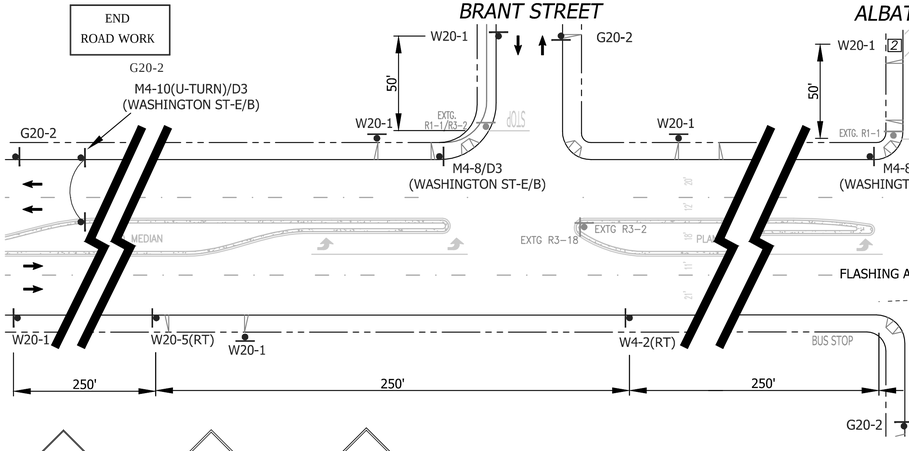
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

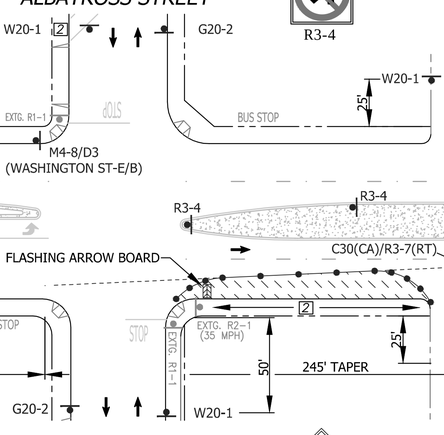
7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

END ROAD WORK G20-2

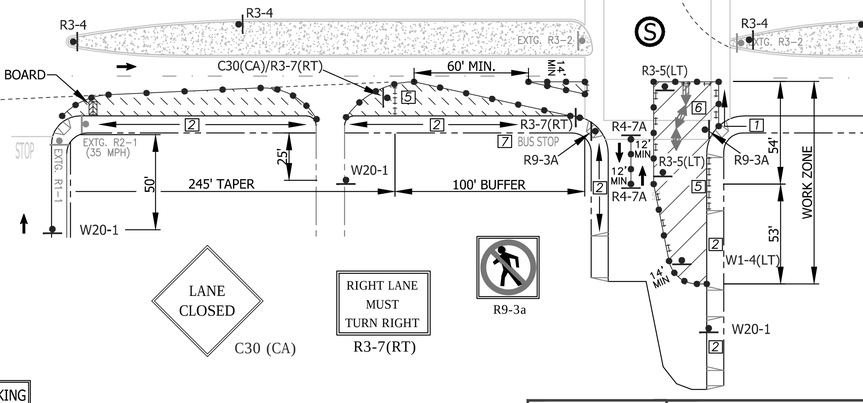
BRANT STREET



ALBATROSS STREET



R3-4



R9-3a

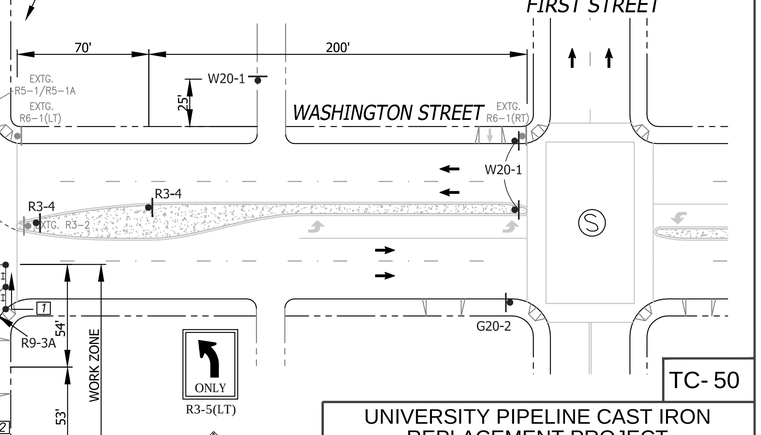
RIGHT LANE MUST TURN RIGHT R3-7(RT)

LANE CLOSED C30 (CA)

ONLY R3-5(LT)

W1-4 (LT)

FIRST STREET



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT	
FRONT STREET	25	SEE DWG.	SEE DWG.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130609-1A | DATE:06/11/2014 | BY:DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 50

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FRONT STREET
PHASE 27

CITY OF SAN DIEGO, CALIFORNIA
SHEET 50 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

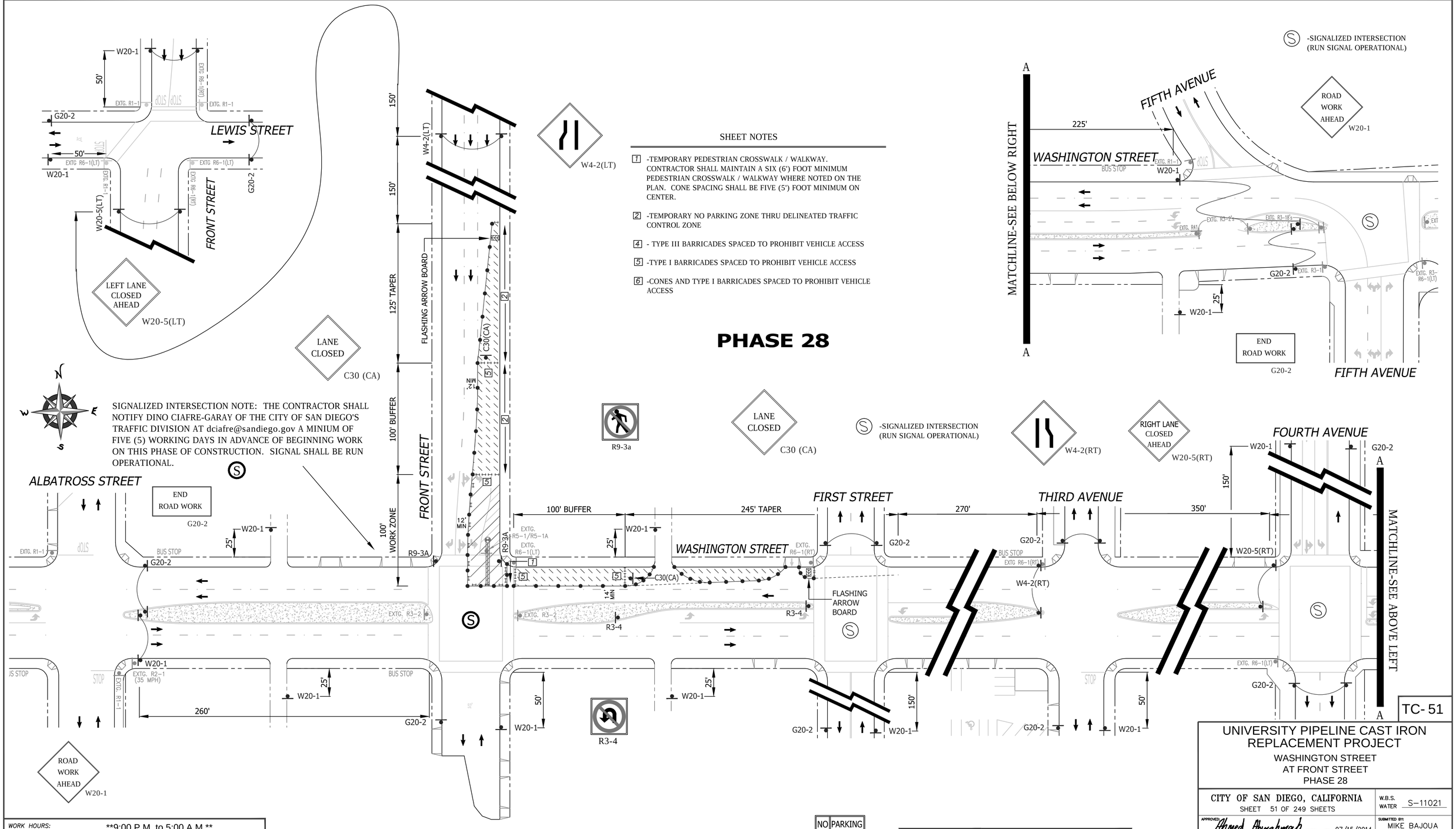
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T50-D



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.		250 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	N/A	N/A	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-51

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FRONT STREET
PHASE 28

CITY OF SAN DIEGO, CALIFORNIA
SHEET 51 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1713
CCS27 COORDINATE
185044-6274407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T51-D

PHASE 29

DOVE ST.

EAGLE STREET

WEST WASHINGTON ST.

BRANT STREET

ALBATROSS STREET

END ROAD WORK

G20-2

W20-1

90'

50'

25'

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

EXTG. R1-1

EXTG. R2-1 (35 MPH)

EXTG. R1-1/R3-2

EXTG. R3-18

EXTG R3-2

PLANTED MEDIAN

BUS STOP

STOP

W20-5(LT)

W4-2(LT)

FLASHING ARROW BOARD

70' MIN.

20' MIN

C30(CA)

W5-1

265'

260'

200'

245' TAPER

170' TANGENT

100' SHI

150'

MATCHLINE-SEE BELOW LEFT

A

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

LANE CLOSED C30 (CA)

ROAD NARROWS W5-1

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

ROAD NARROWS W5-1

36" MIN.

ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY — R11-3a(MOD)

FIRST AVENUE - SOUTHBOUND — D3

LEFT LANE MUST TURN RIGHT R3-7(LT)

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

MATCHLINE-SEE DWG. TC-53

C

C

FRONT STREET

100' BUFFER

12' MIN

EXTG. R5-1/R5-1A

EXTG. R6-1(LT)

M4-10(U-TURN)/D3 (FIRST ST-S/B)

M4-10(U-TURN)/D3 (FIRST ST-N/B)

R11-3A(MOD)/D3 (FIRST ST-N/B)

C12(CA)

R3-18

R9-3A

14' MIN

SHIFT TAPER

NARROW LANE

C12(CA)

M4-10(U-TURN) DETOUR FIRST AVENUE - SOUTHBOUND D3

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

FIRST AVENUE

75' BUFFER

100' SHIFT TAPER

175' TANGENT

THIRD AVENUE

275' TAPER

227'

MATCHLINE-SEE DWG. TC-53

MATCHLINE-SEE ABOVE RIGHT

300' MAX. WORK ZONE

36" MIN.

ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY — R11-3a(MOD)

FIRST AVENUE - NORTHBOUND — D3

R3-18

R9-3a

75' BUFFER

TAPER

M4-10(U-TURN) DETOUR FIRST AVENUE - NORTHBOUND D3

C30(CA)/R11-3A(MOD)/D3 (FIRST AVE-S/B)

M4-10(U-TURN)/D3 (1st AVENUE-N/B)

R3-7(LT)

FLASHING ARROW BOARD

FOURTH AVENUE

WASHINGTON STREET

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M. R26 (MOD)

D

D

MATCHLINE-SEE DWG. TC-53

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	SEE DWG.	250 FT.	25 FT	
FRONT STREET	25	SEE DWG.	SEE DWG.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E. Darnell 07/15/2014

BILL E. DARNELL DATE

DESIGN ENGINEER R.C.E. No. 22338

LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306009-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'

VERT: N/A

HOR: 1" = 40'

0 1/2 1

EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIRST AVENUE
PHASE 29

TC- 52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 52 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

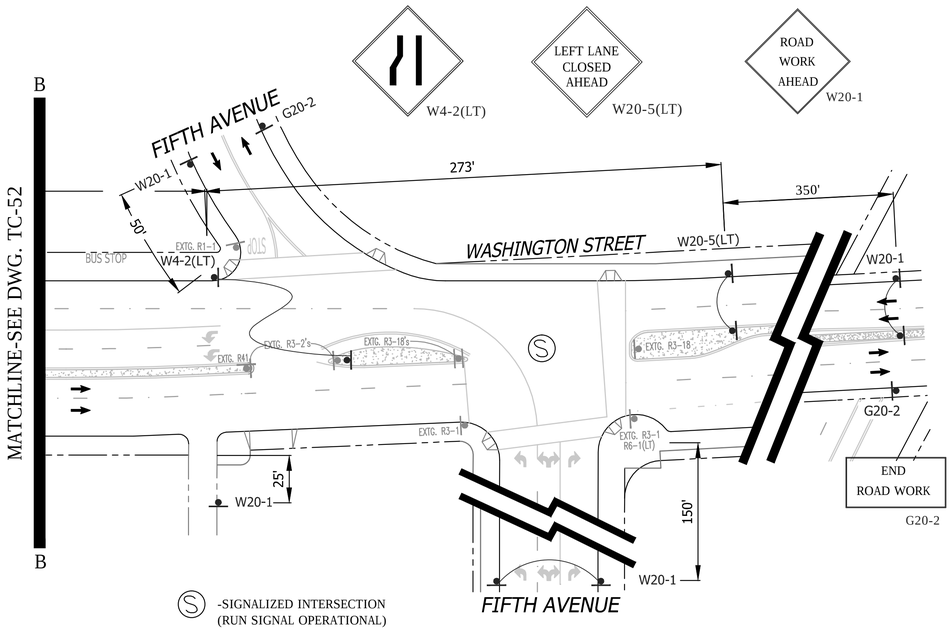
210-1719 CCS27 COORDINATE

185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____

INSPECTOR _____ DATE COMPLETED _____

36656-T52-D



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

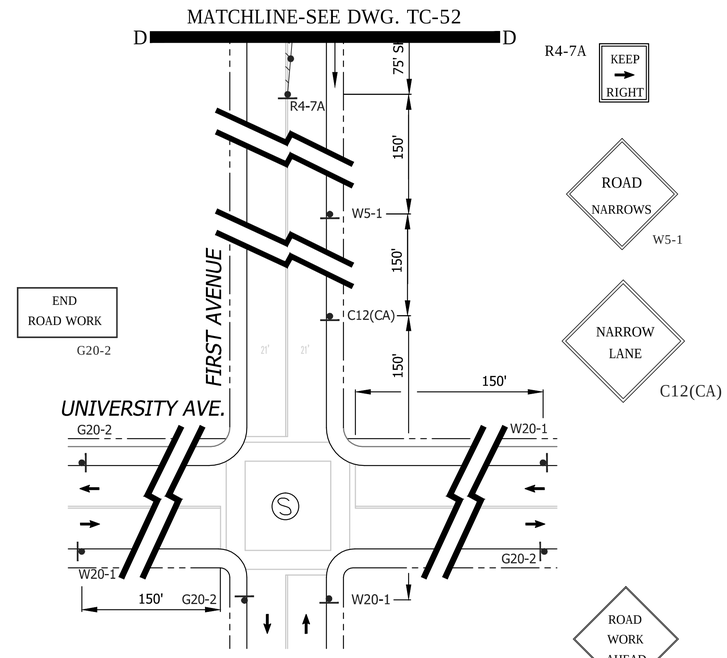
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

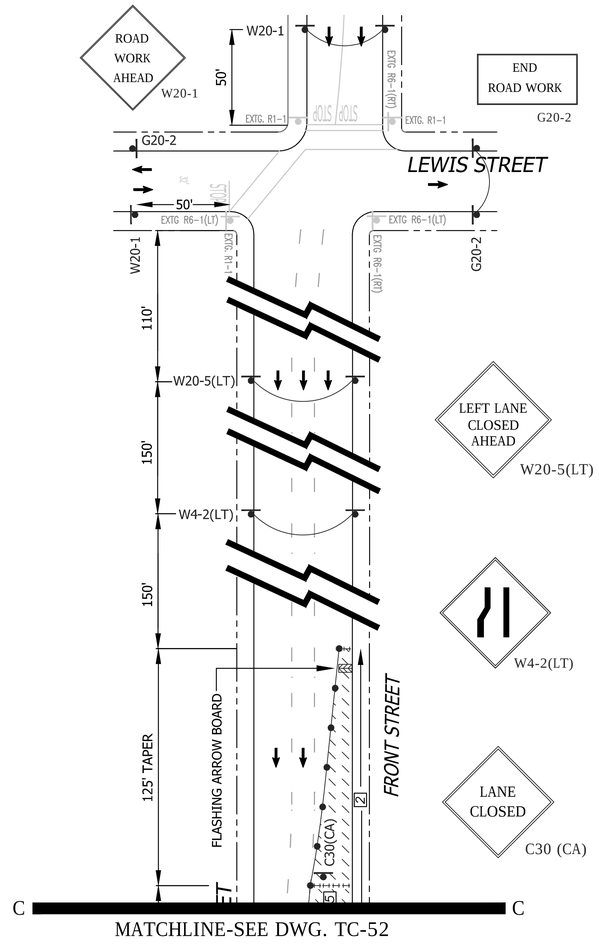
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
FIRST AVENUE	25	SEE DWG.		150 FT.	25 FT

PHASE 29 (CONTINUED)





SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

R26 (MOD)

TC- 53

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE - PHASE 29
CONTINUATION SHEET FOR DWG. TC-52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 53 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah — FOR CITY ENGINEER — 07/15/2014 DATE
AHMED ABURAHMAH — PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T53-D

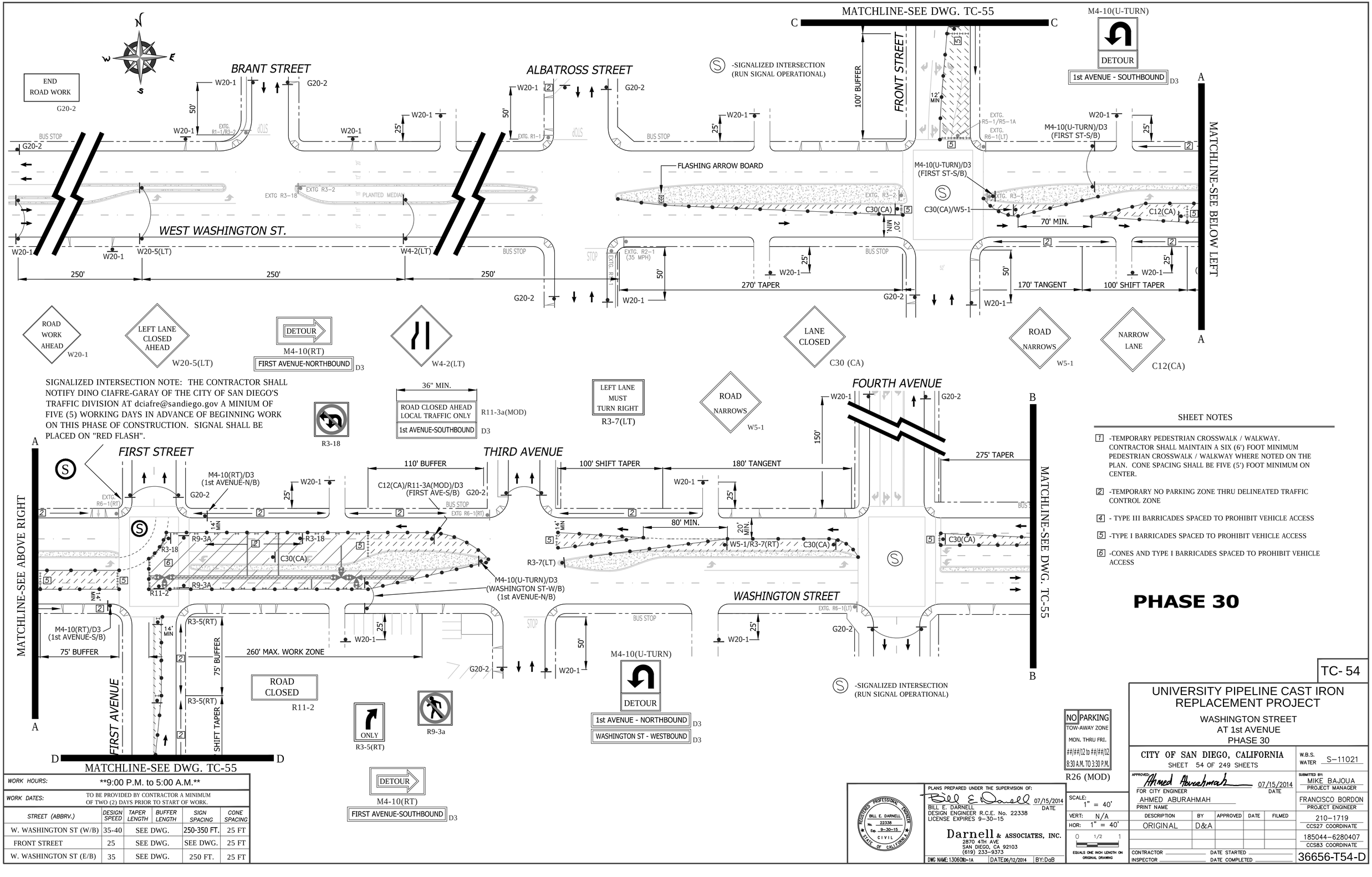
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 30

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.	SEE DWG.	250-350 FT.	25 FT
FRONT STREET	25	SEE DWG.	SEE DWG.	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600b-1A | DATE: 06/12/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 54

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE
PHASE 30

CITY OF SAN DIEGO, CALIFORNIA
SHEET 54 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

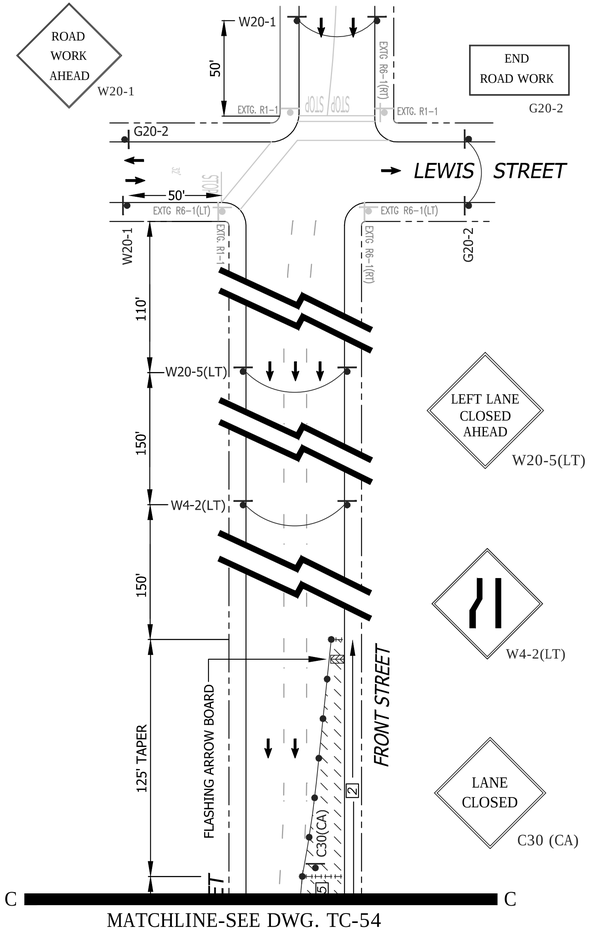
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

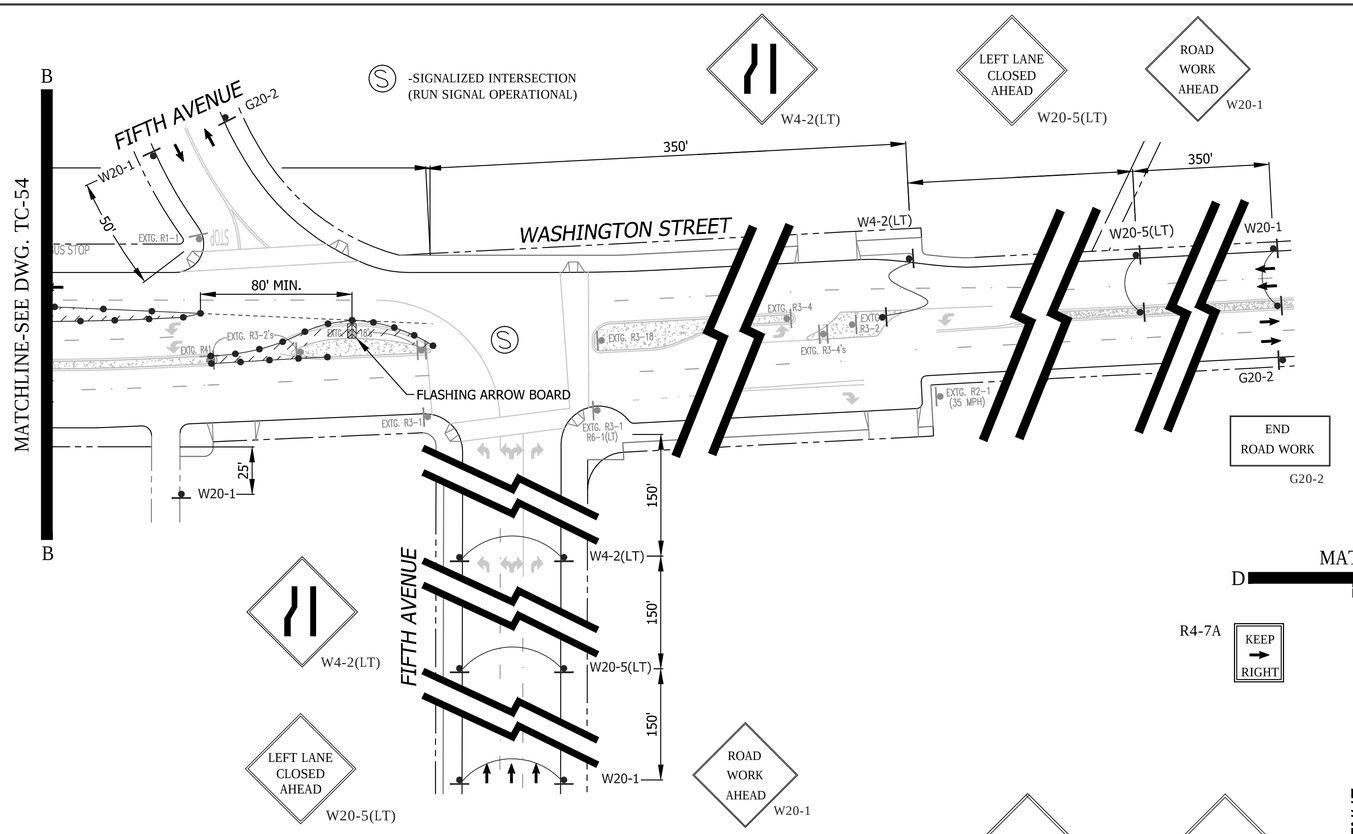
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

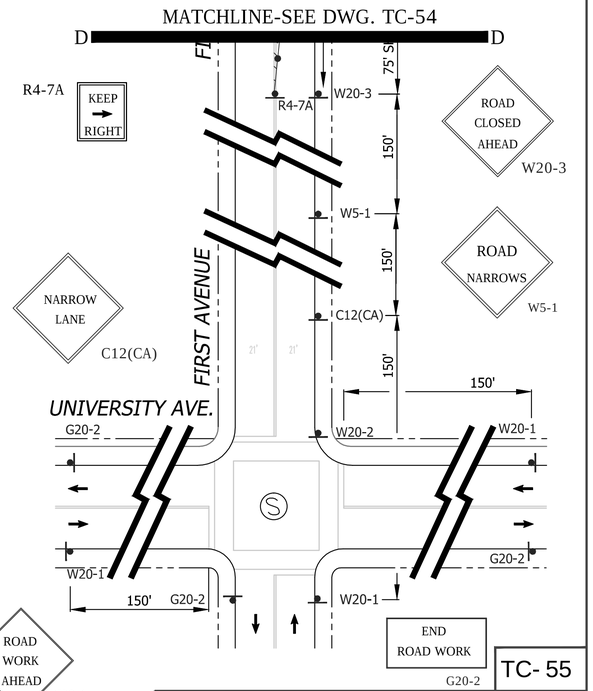
36656-T54-D



MATCHLINE-SEE DWG. TC-54



PHASE 30 (CONTINUED)



TC- 55

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
FRONT STREET	25	SEE DWG.		SEE DWG.	25 FT
FIRST AVENUE	25	SEE DWG.		150 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE - PHASE 30
CONTINUATION SHEET FOR DWG. TC-54

CITY OF SAN DIEGO, CALIFORNIA
SHEET 55 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T55-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

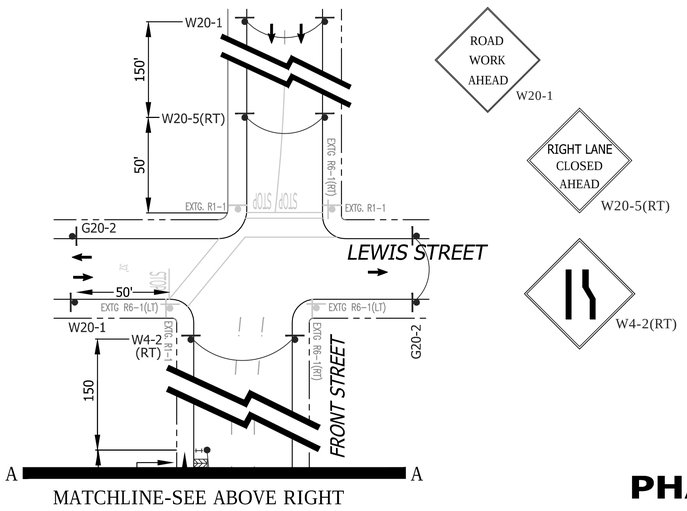
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601B-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 31



MATCHLINE-SEE ABOVE RIGHT

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

LANE CLOSED C30 (CA)

SHEET NOTES

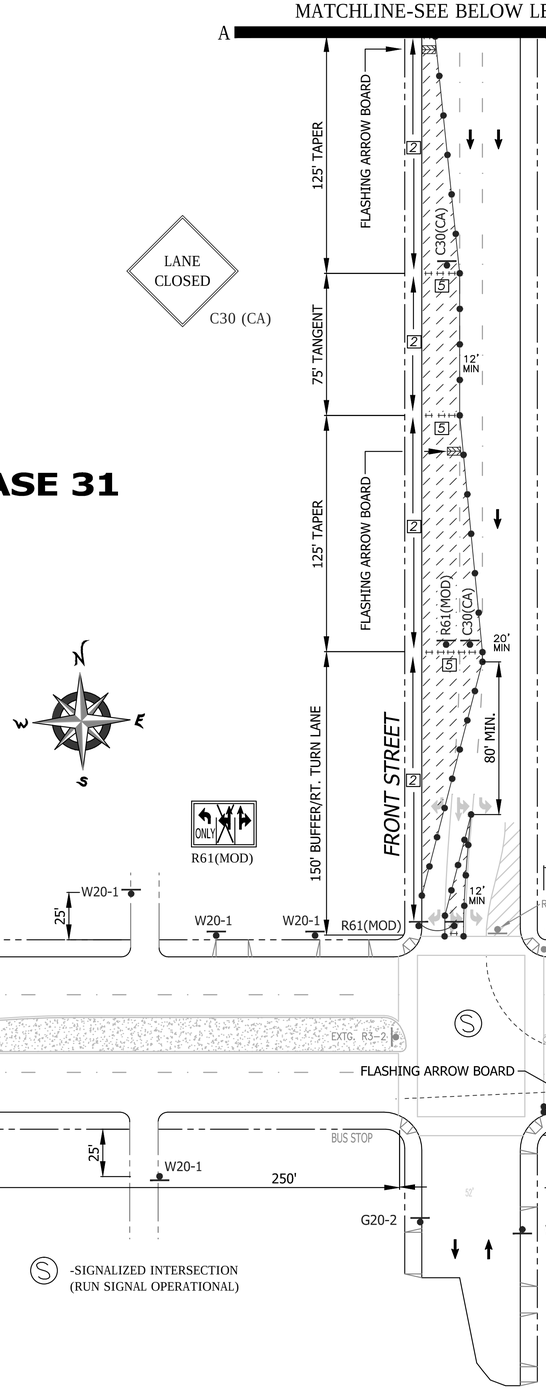
1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

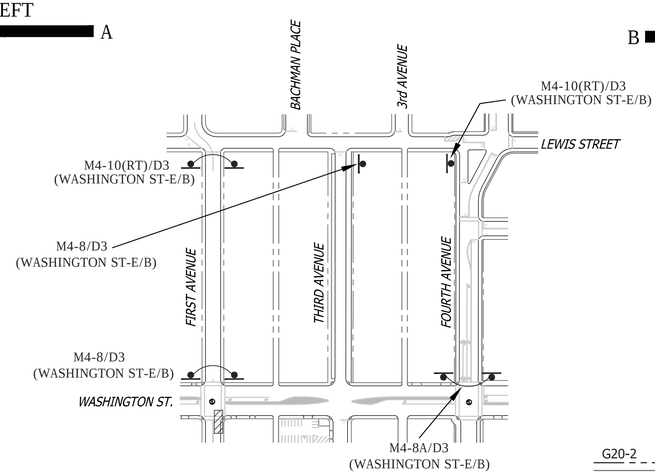
2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



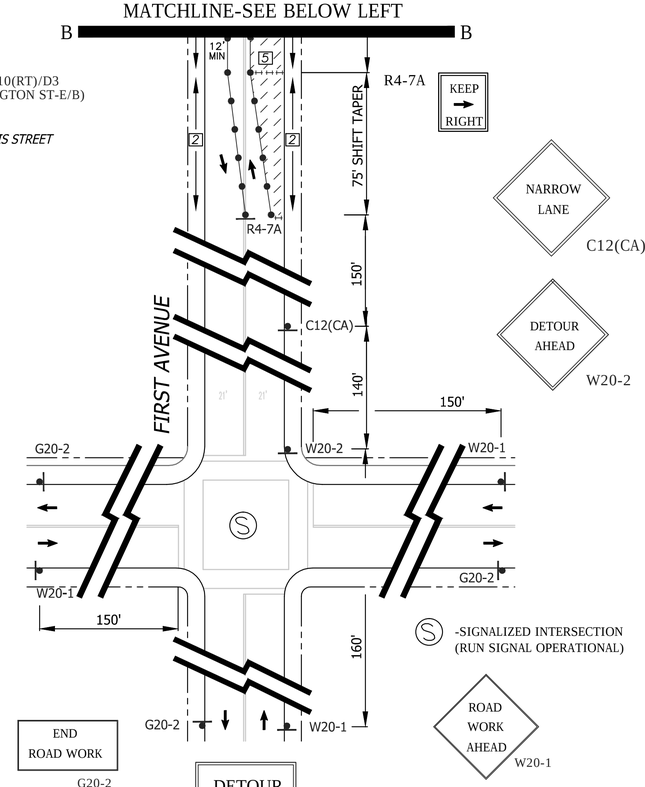


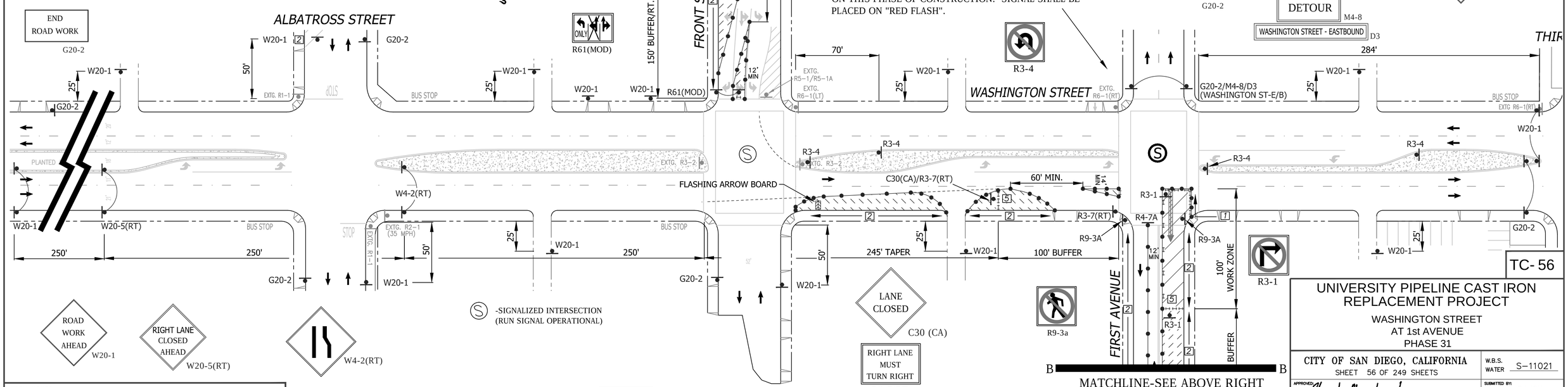
DETOUR ROUTE

FOR DWG. TC-56

LANE CLOSED C30 (CA)

S SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".





MATCHLINE-SEE ABOVE RIGHT

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M. R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35	N/A	N/A	250 FT.	25 FT
1st AVENUE	25	SEE DWG.	SEE DWG.	25 FT	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E. Darnell 07/15/2014

BILL E. DARNELL DATE

DESIGN ENGINEER R.C.E. No. 22338

LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'

VERT: N/A

HOR: 1" = 40'

0 1/2 1

EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 56

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 1st AVENUE
PHASE 31

CITY OF SAN DIEGO, CALIFORNIA
SHEET 56 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T56-D

MATCHLINE-SEE DWG. TC-58

BRANT STREET

ALBATROSS STREET

FRONT STREET

100' BUFFER

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

M4-10(U-TURN)
DETOUR
1st AVENUE - SOUTHBOUND D3

WEST WASHINGTON ST.

FLASHING ARROW BOARD

M4-10(U-TURN)/D3 (FIRST ST-S/B)

C30(CA)/W5-1

70' MIN.

170' TANGENT

100' SHIFT TAPER

270' TAPER

250' 250' 250'

MATCHLINE-SEE BELOW LEFT

ROAD NARROWS W5-1

NARROW LANE C12(CA)

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

M4-10(U-TURN)
DETOUR
3rd AVENUE - SOUTHBOUND D3

M4-10(RT)
DETOUR
THIRD AVENUE - NORTHBOUND D3

LANE CLOSED C30 (CA)

FOURTH AVENUE

LANE CLOSED C30 (CA)

275' TAPER

36" MIN.
ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
3rd AVENUE-SOUTHBOUND D3
R11-3a(MOD)

R11-3A(MOD)/D3 (3rd AVENUE-N/B)

PHASE 32

FIRST AVENUE

THIRD AVENUE

WASHINGTON STREET

M4-9B(RT)

M4-9B(LT)

M4-10(RT)/D3 (3rd AVE-N/B)

M4-10(U-TURN)/D3 (3rd AVENUE-S/B)

M4-10(U-TURN)/D3 (WASHINGTON ST-W/B) (3rd AVENUE-N/B)

C12(CA)

C30(CA)

R9-3A

R3-18

R3-5(RT)

525' WORK ZONE

75' SHIFT TAPER

150'

MATCHLINE-SEE ABOVE RIGHT

MATCHLINE-SEE DWG. TC-58

75' BUFFER

110' MIN.

R4-7A

KEEP RIGHT

ONLY

R3-5(RT)

R4-7A/R3-5(RT)

M4-10(U-TURN)
DETOUR
3rd AVENUE - NORTHBOUND D3
WASHINGTON ST - WESTBOUND D3

M4-10(RT)
DETOUR
THIRD AVENUE - SOUTHBOUND D3

M4-9B(RT)
DETOUR

M4-9B(LT)

R3-18

R9-3a

ROAD NARROWS W5-1

ROAD WORK AHEAD W20-1

NARROW LANE C12(CA)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

N W E S

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
3rd AVENUE	25	SEE DWG.	SEE DWG.		25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600D-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 57

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
1st AVENUE TO 4th AVENUE
PHASE 32

CITY OF SAN DIEGO, CALIFORNIA
SHEET 57 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

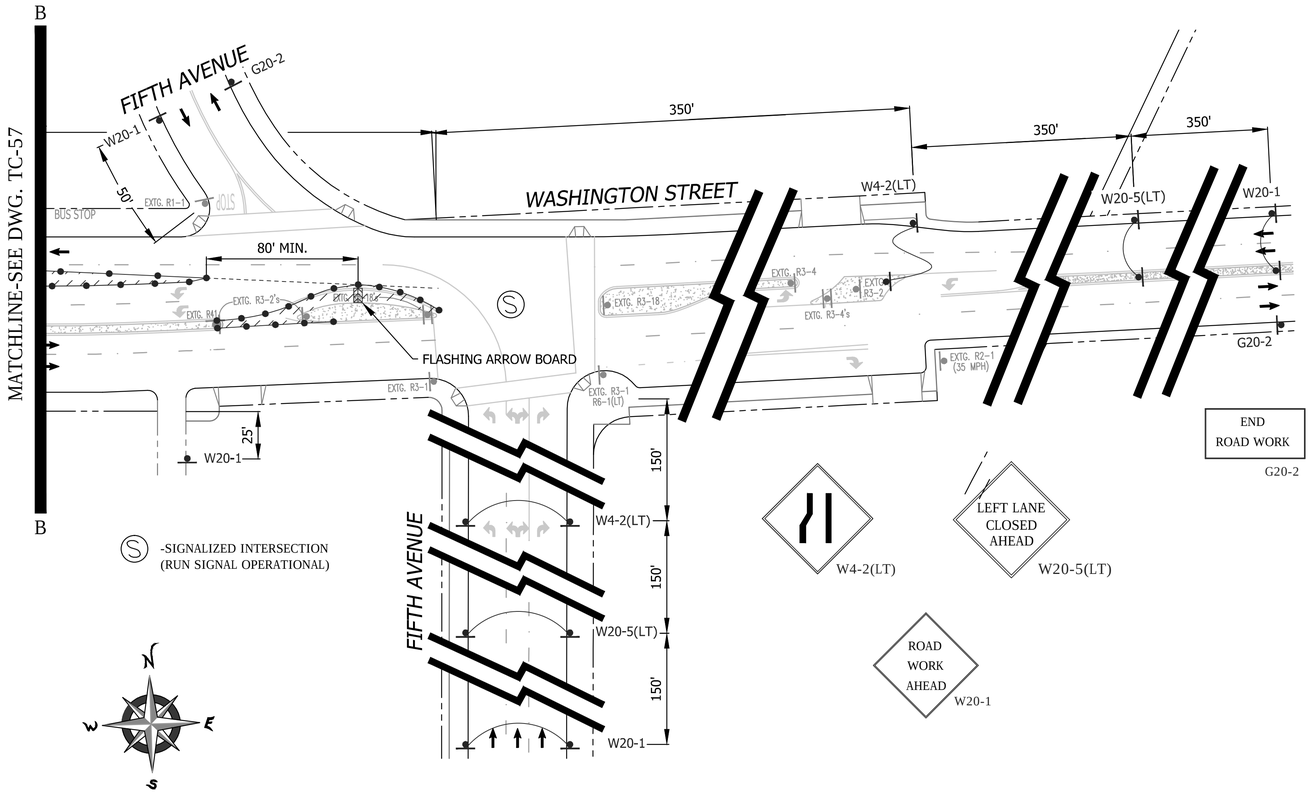
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

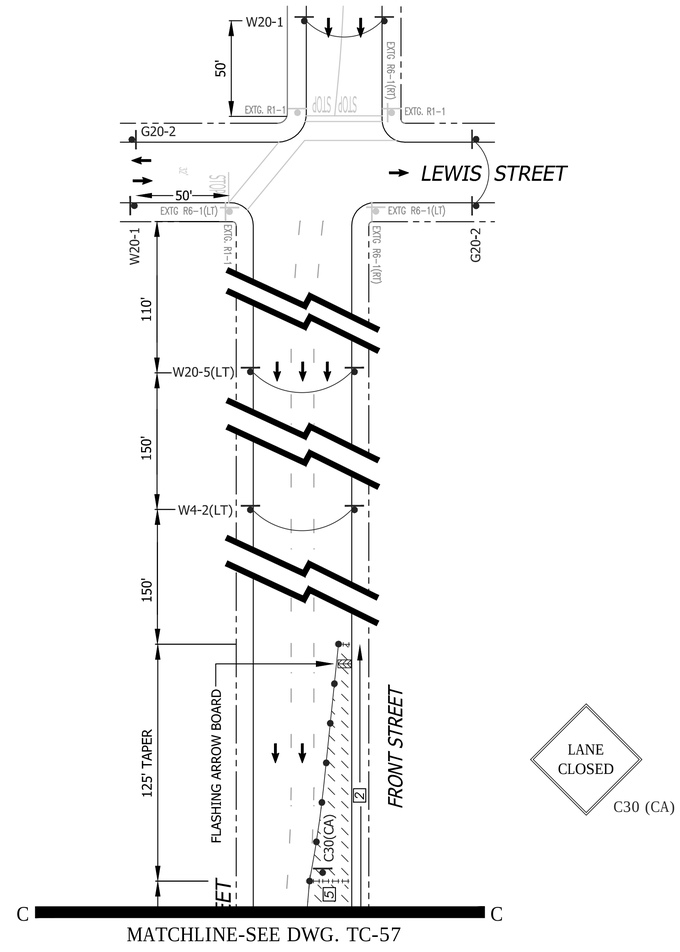
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T57-D





PHASE 32 (CONTINUED)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
3rd AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 58

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
1st AVENUE TO 4th AVENUE
PHASE 32

CITY OF SAN DIEGO, CALIFORNIA
SHEET 58 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

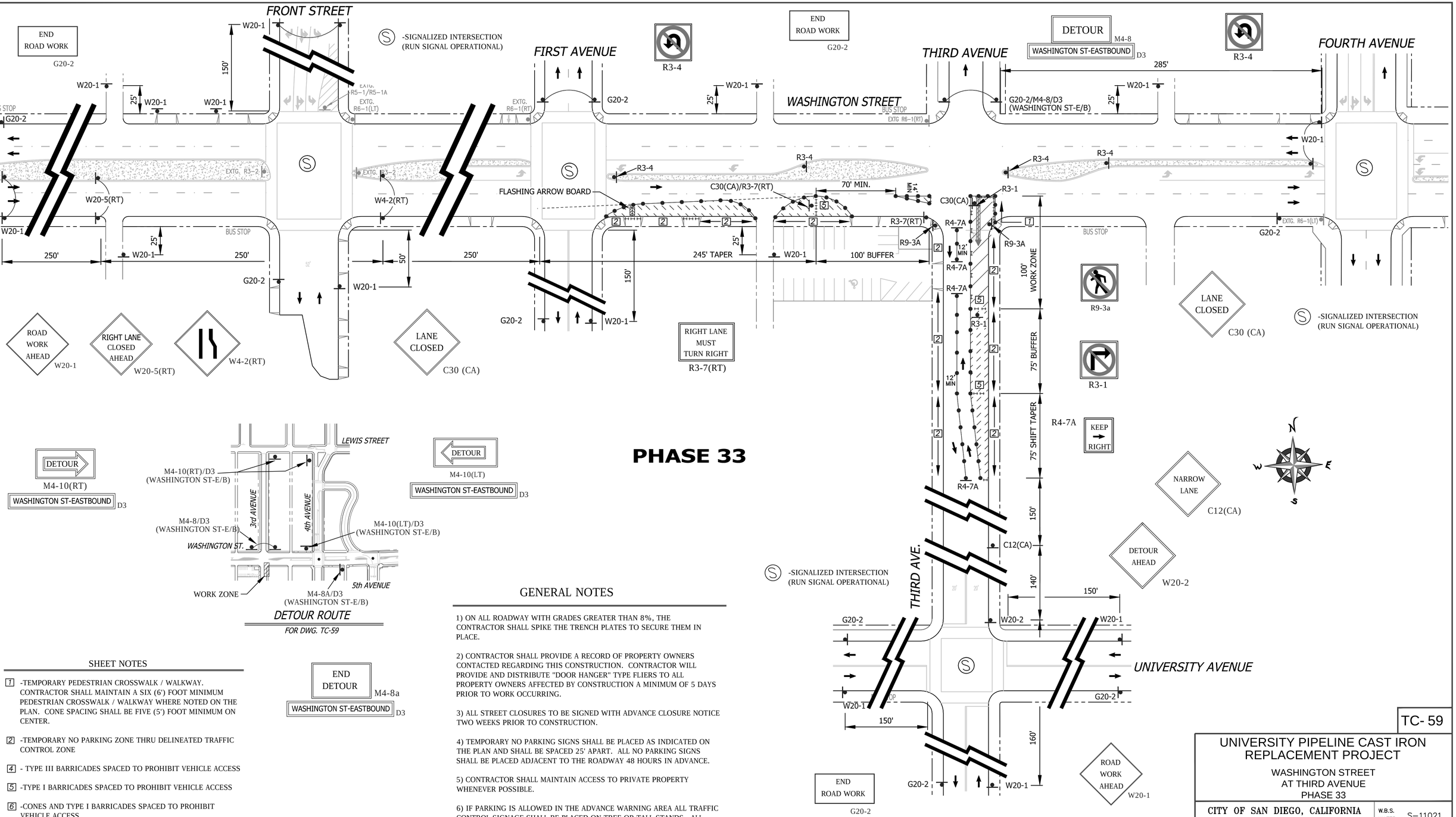
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T58-D



DETOUR ROUTE

FOR DWG. TC-59

PHASE 33

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

END DETOUR M4-8a
WASHINGTON ST-EASTBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	35-40	SEE DWG.		250-350 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/12/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 59

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT THIRD AVENUE
PHASE 33

CITY OF SAN DIEGO, CALIFORNIA
SHEET 59 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

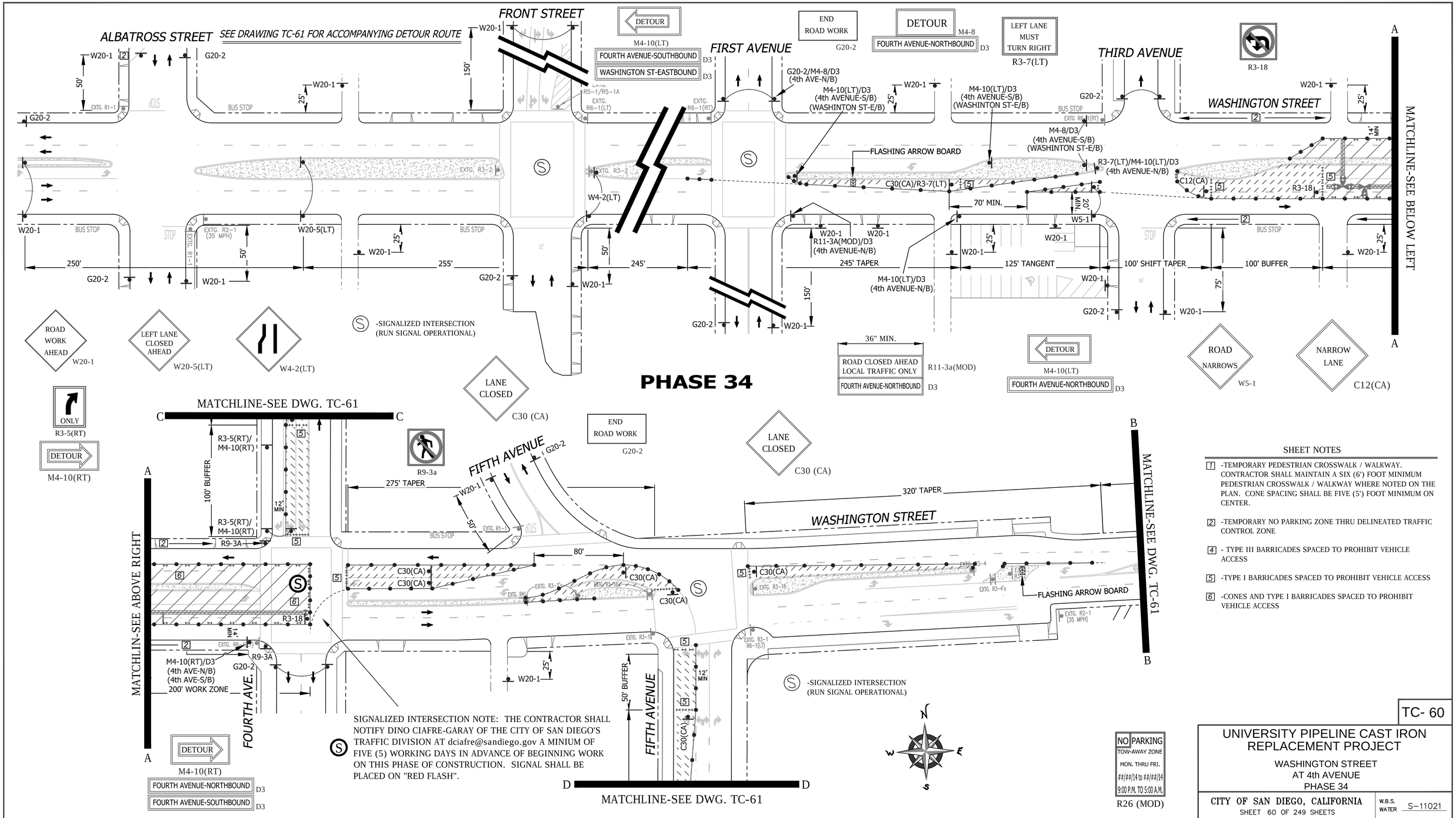
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

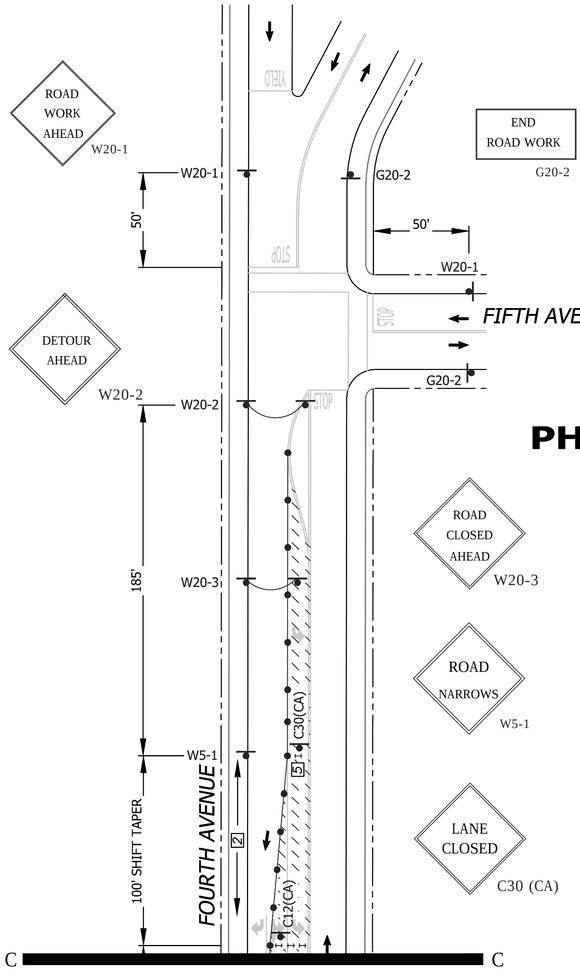
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

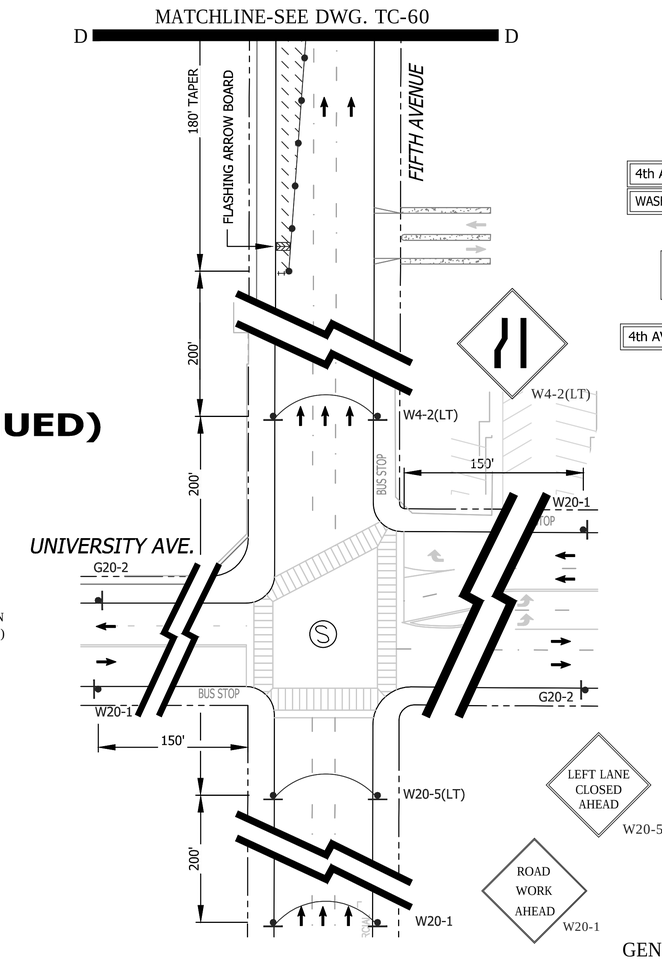
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T59-D

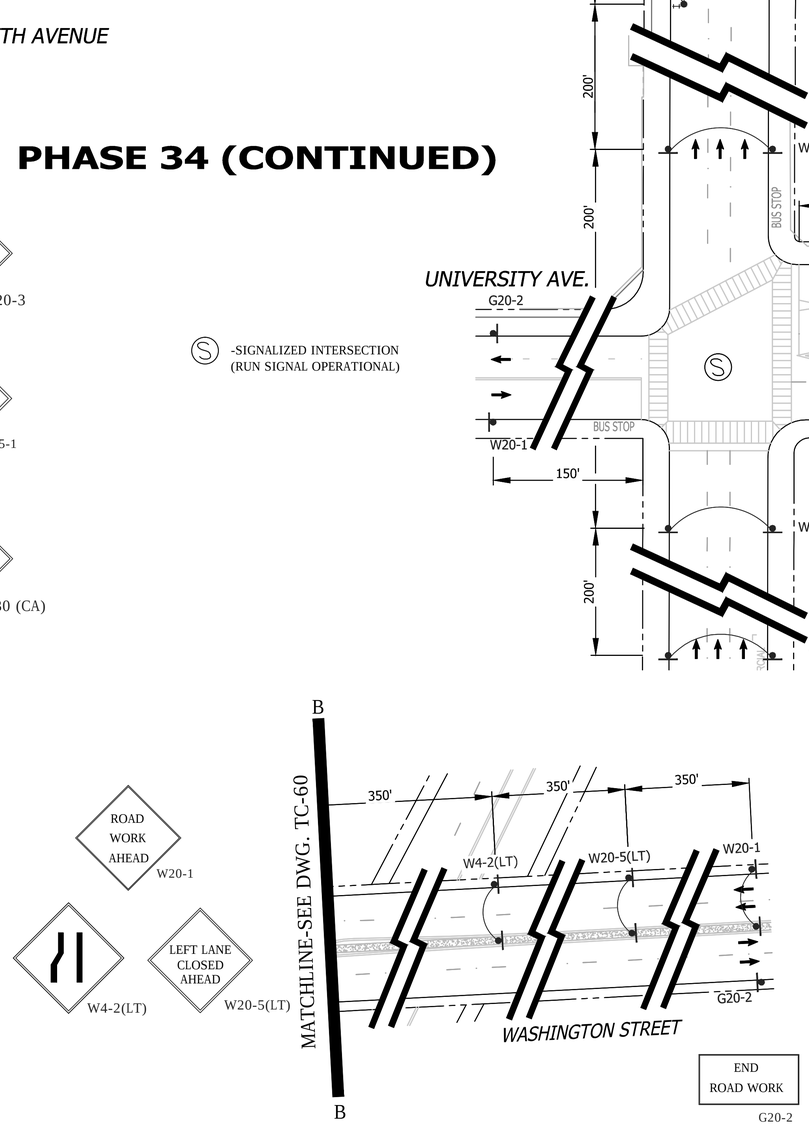

ALBATROSS STREET
SEE DRAWING TC-61 FOR ACCOMPANYING DETOUR ROUTE
FRONT STREET
FIRST AVENUE
THIRD AVENUE
WASHINGTON STREET
FIFTH AVENUE
FOURTH AVE.
MATCHLINE-SEE DWG. TC-61
MATCHLINE-SEE BELOW LEFT
MATCHLIN-SEE ABOVE RIGHT
MATCHLINE-SEE DWG. TC-61
DETOUR
M4-10(LT)
FOURTH AVENUE-SOUTHBOUND D3
WASHINGTON ST-EASTBOUND D3
END ROAD WORK
G20-2
DETOUR M4-8
FOURTH AVENUE-NORTHBOUND D3
LEFT LANE MUST TURN RIGHT
R3-7(LT)
R3-18
W20-1
G20-2
W20-5(LT)
W4-2(LT)
W5-1
W11-2
W20-7
W3-4
W3-1
W3-2
W3-3
W3-4a
W3-4b
W3-4c
W3-4d
W3-4e
W3-4f
W3-4g
W3-4h
W3-4i
W3-4j
W3-4k
W3-4l
W3-4m
W3-4n
W3-4o
W3-4p
W3-4q
W3-4r
W3-4s
W3-4t
W3-4u
W3-4v
W3-4w
W3-4x
W3-4y
W3-4z
W3-5
W3-6
W3-7
W3-8
W3-9
W3-10
W3-11
W3-12
W3-13
W3-14
W3-15
W3-16
W3-17
W3-18
W3-19
W3-20
W3-21
W3-22
W3-23
W3-24
W3-25
W3-26
W3-27
W3-28
W3-29
W3-30
W3-31
W3-32
W3-33
W3-34
W3-35
W3-36
W3-37
W3-38
W3-39
W3-40
W3-41
W3-42
W3-43
W3-44

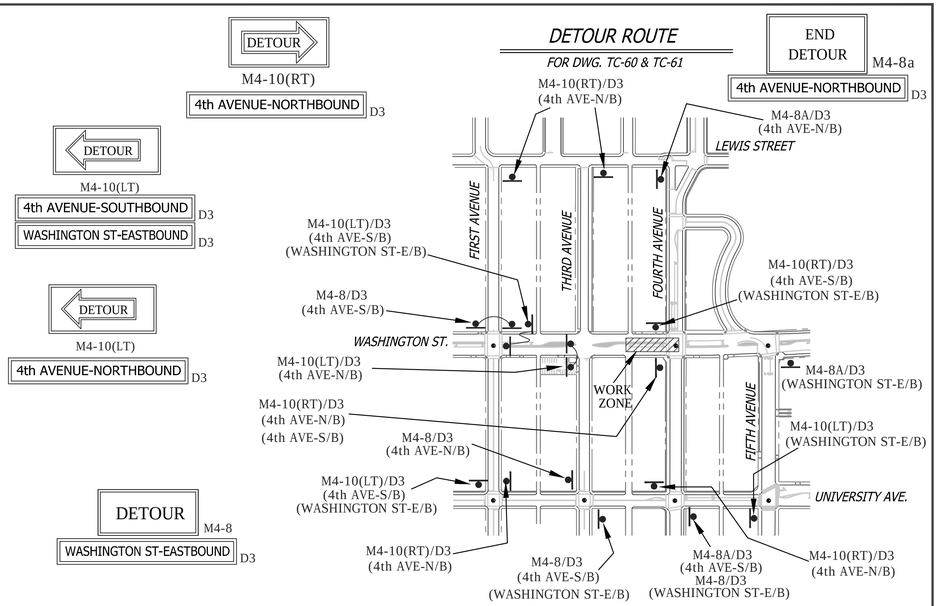
PHASE 34 (CONTINUED)





-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)





SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/12/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 61

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT 4th AVENUE - PHASE 34
(CONTINUATION SHEET FOR DWG. T60)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 61 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

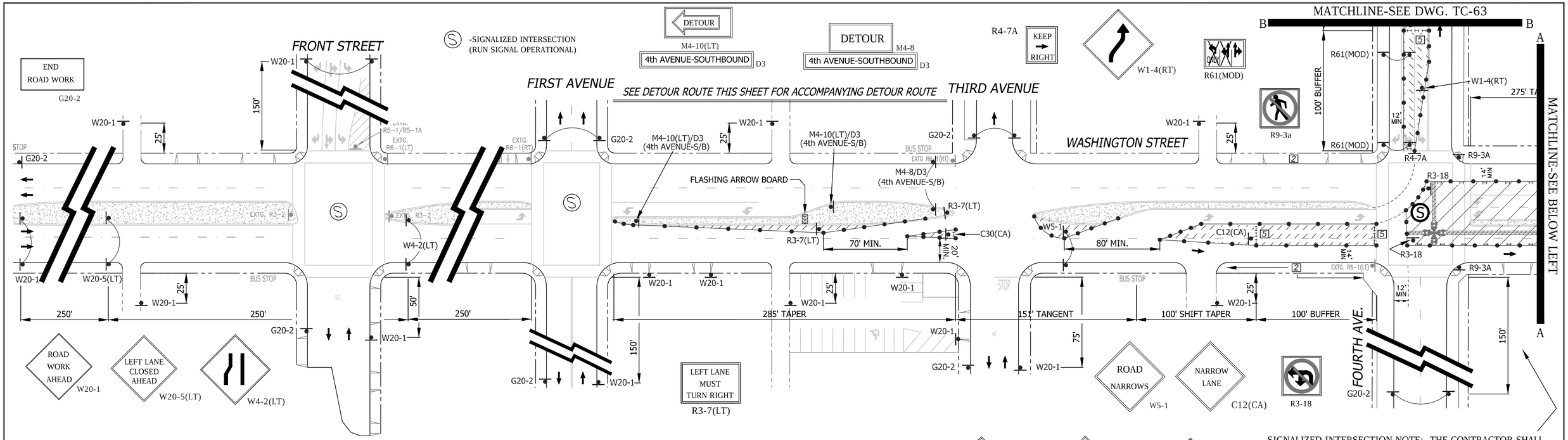
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

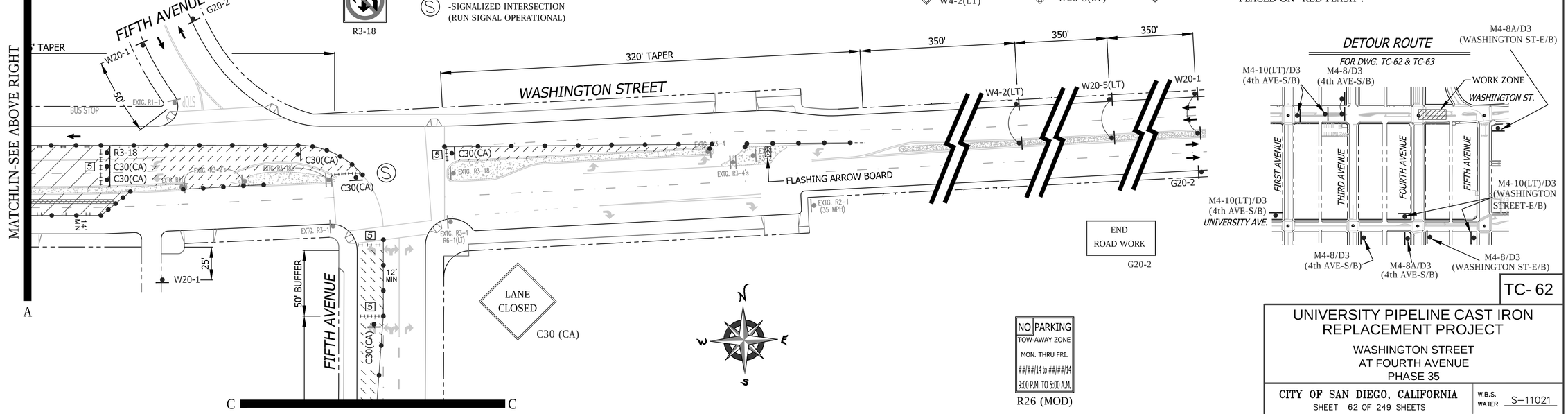
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T61-D



PHASE 35



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

W4-2(LT) — W20-5(LT) — LEFT LANE CLOSED AHEAD — ROAD WORK AHEAD W20-1

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
4. - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130606C-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE
PHASE 35

CITY OF SAN DIEGO, CALIFORNIA
SHEET 62 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

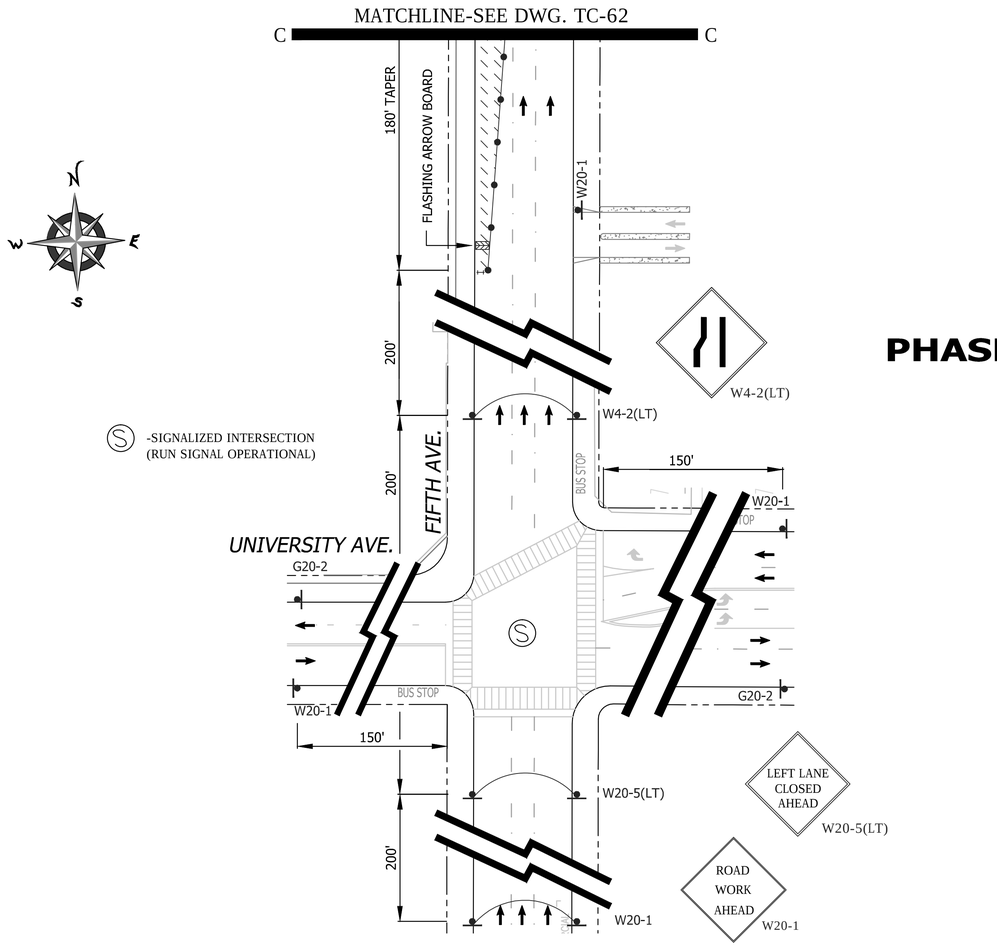
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

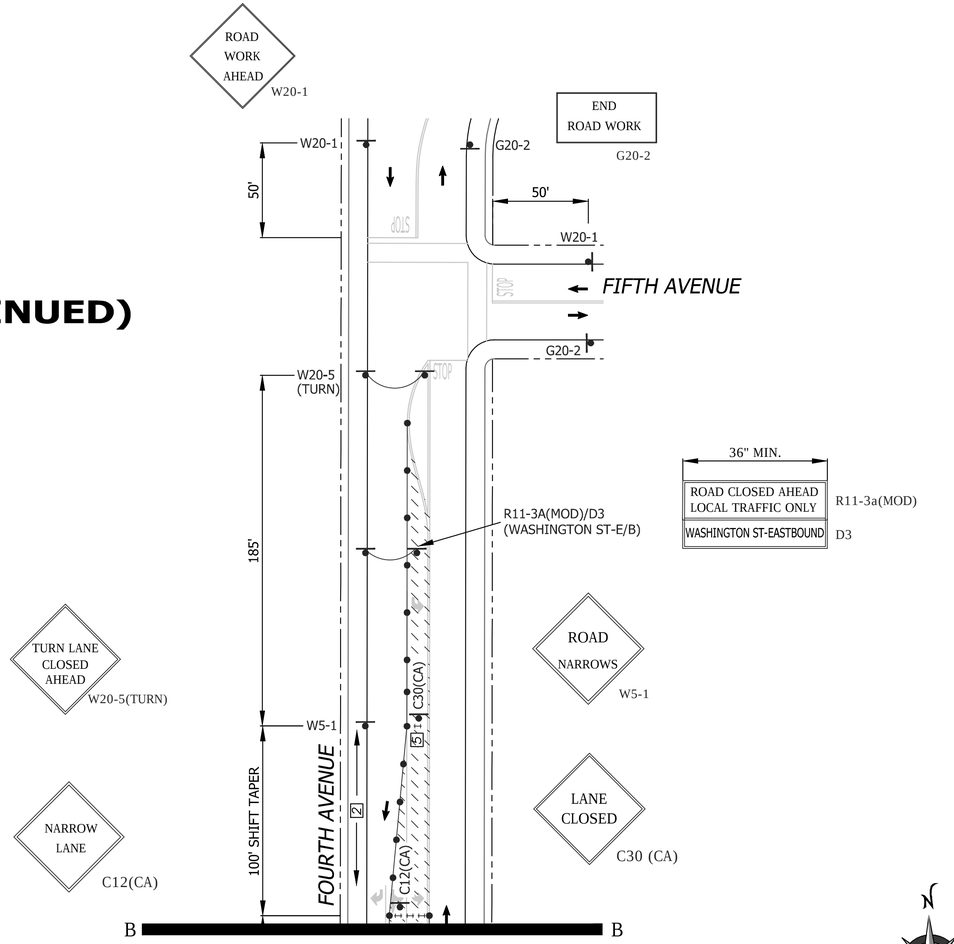
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-62

36656-T62-D

PHASE 35 (CONTINUED)





SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 63

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE - PHASE 35
(CONTINUATION SHEET FOR TC-62)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 63 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

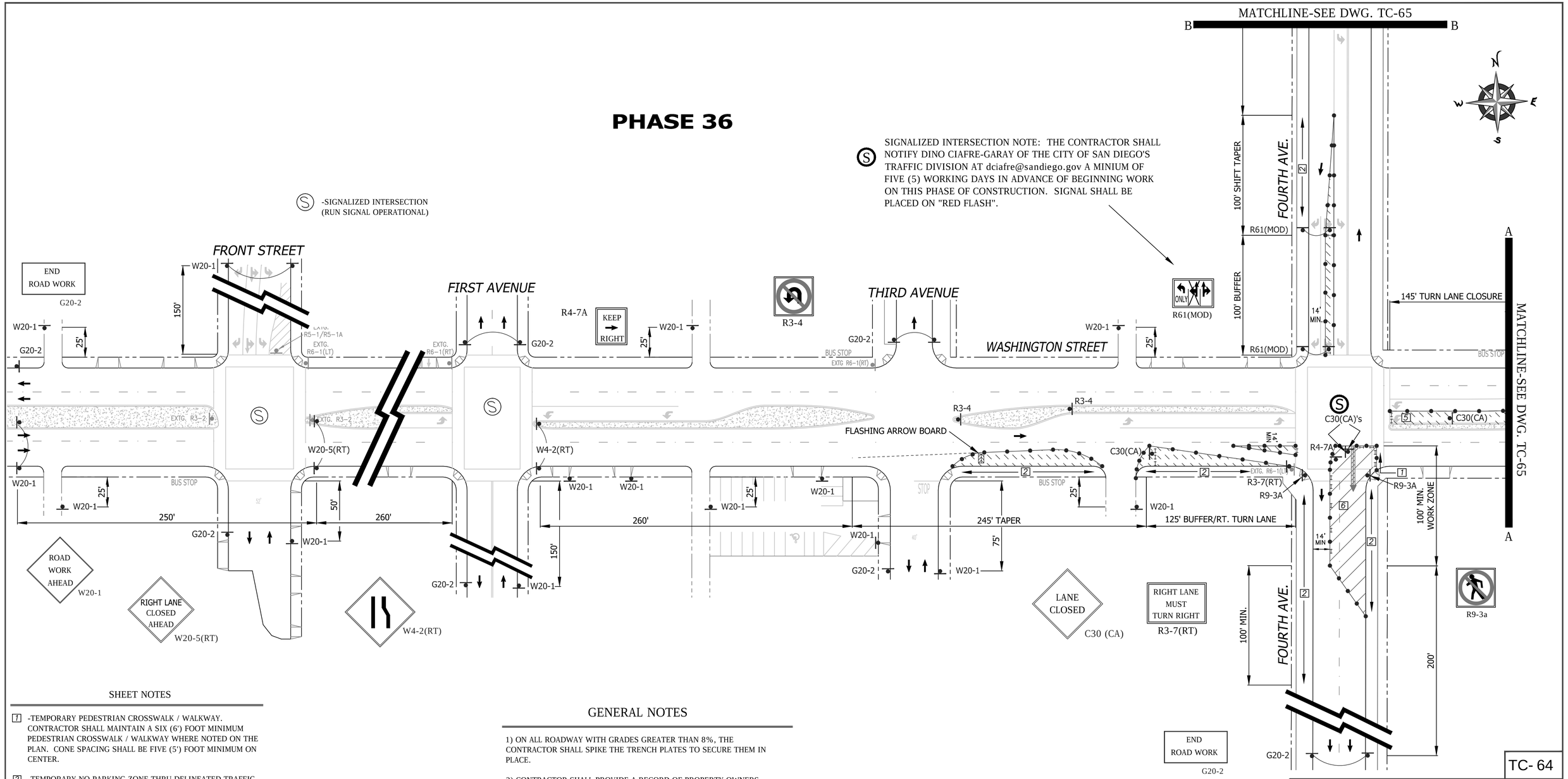
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T63-D

PHASE 36



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[4] - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 64

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE
PHASE 36

CITY OF SAN DIEGO, CALIFORNIA
SHEET 64 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

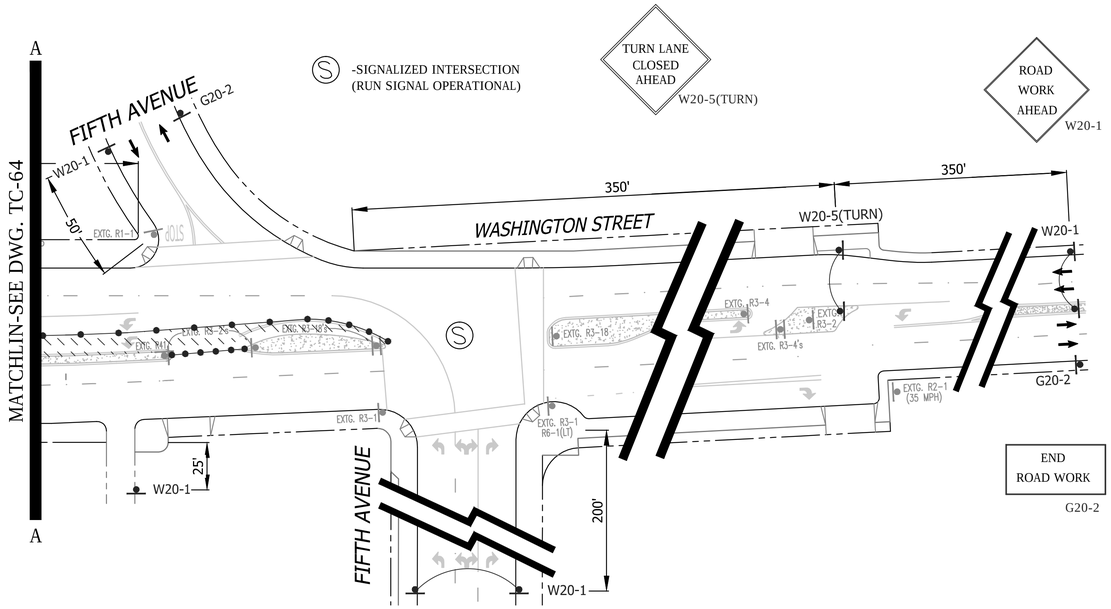
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

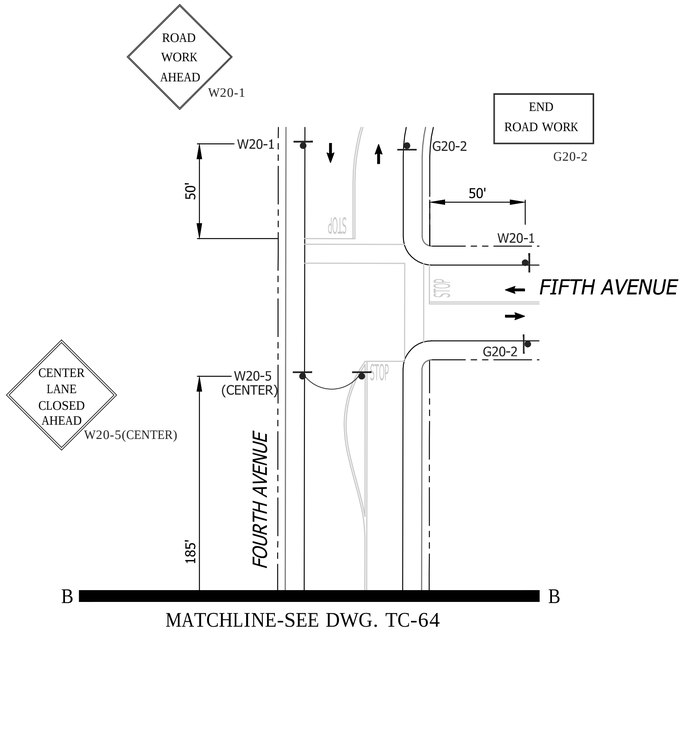
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T64-D





PHASE 36 (CONTINUED)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
9:00 P.M. TO 5:00 A.M.	

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 65

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE - PHASE 36
(CONTINUATION SHEET FOR TC-64)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 65 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T65-D

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

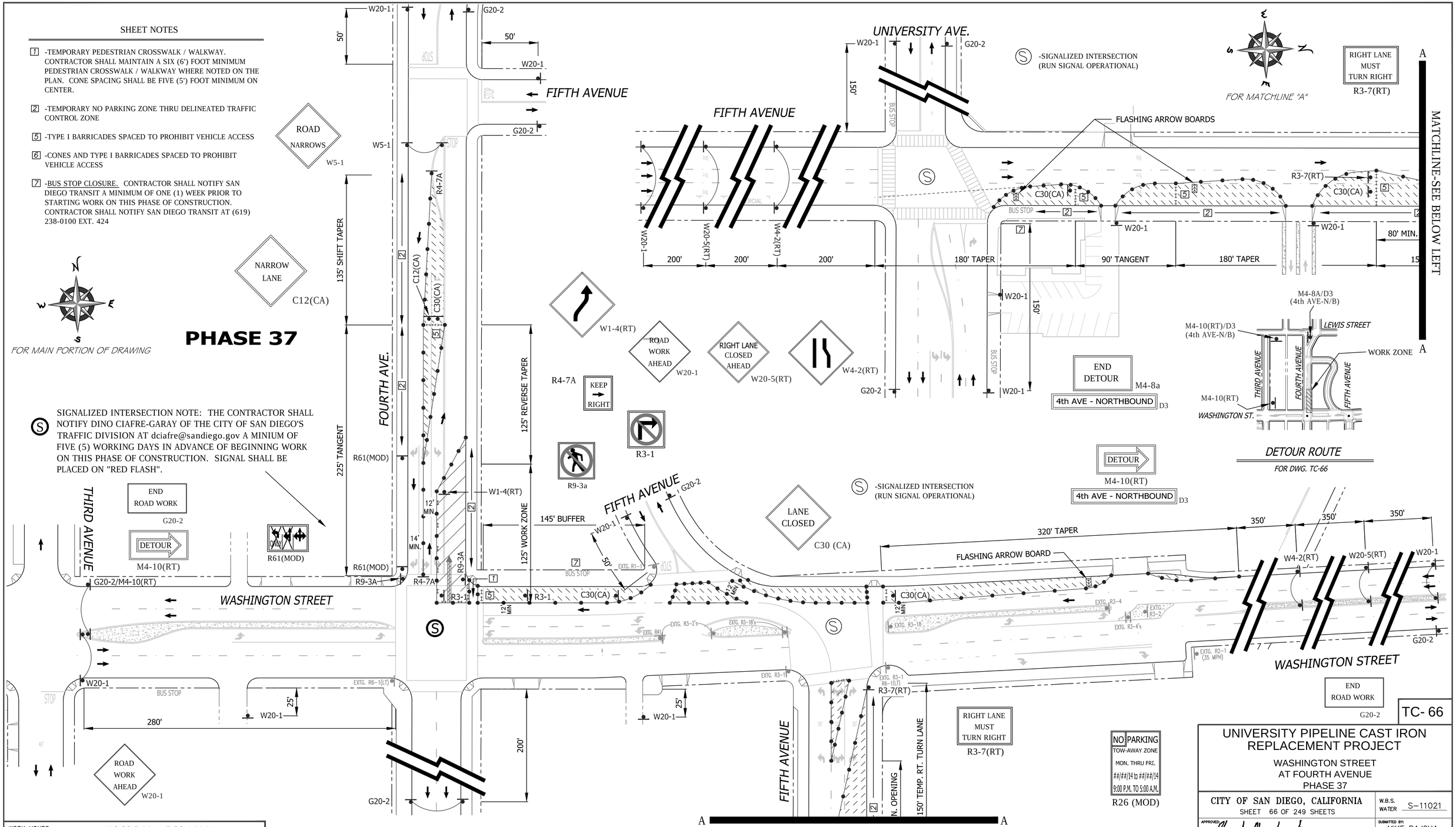
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

FOR MAIN PORTION OF DRAWING

PHASE 37

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT	
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 66

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FOURTH AVENUE
PHASE 37

CITY OF SAN DIEGO, CALIFORNIA
SHEET 66 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

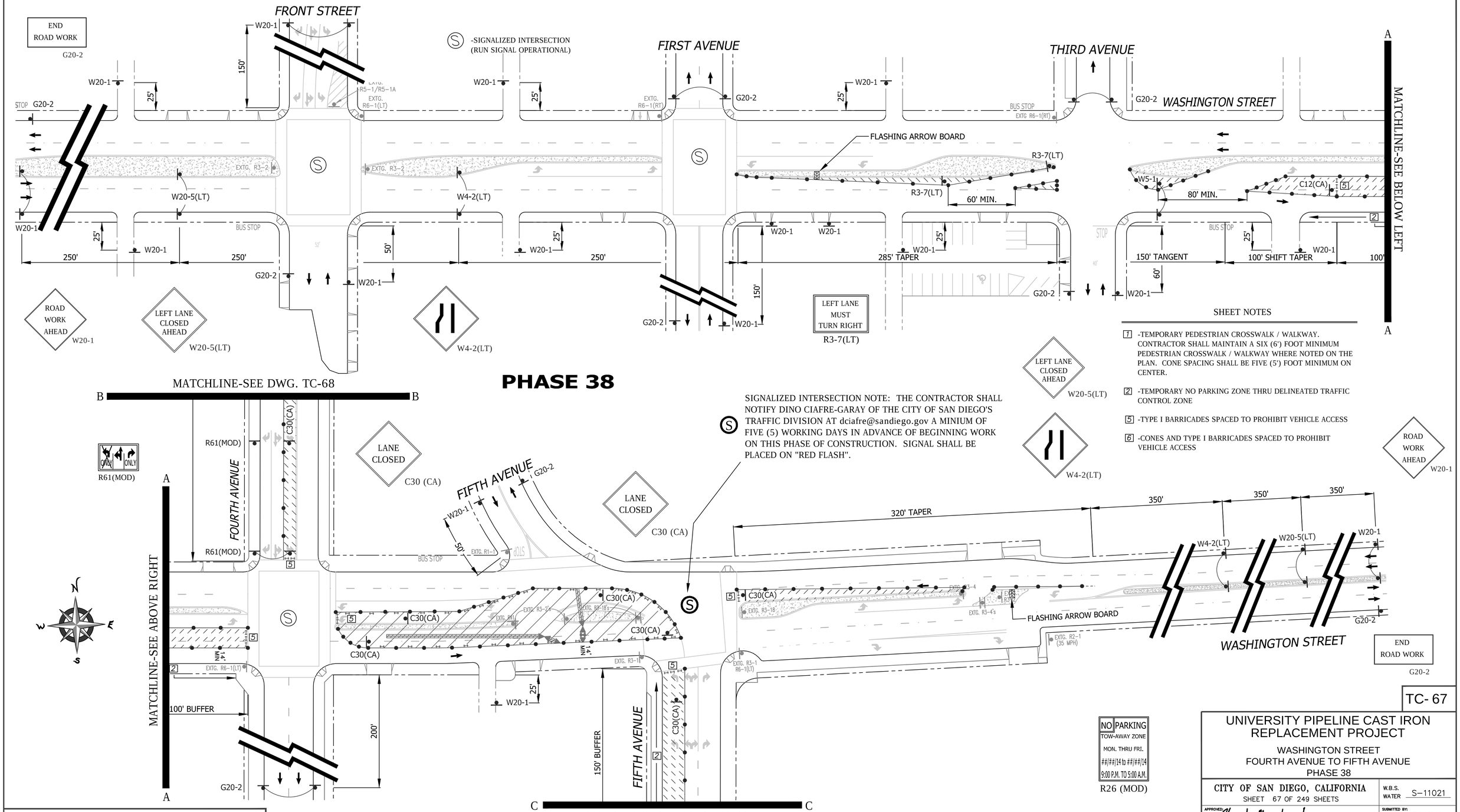
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE

185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T66-D



PHASE 38

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT	
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

TC- 67

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
FOURTH AVENUE TO FIFTH AVENUE
PHASE 38

CITY OF SAN DIEGO, CALIFORNIA
SHEET 67 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T67-D

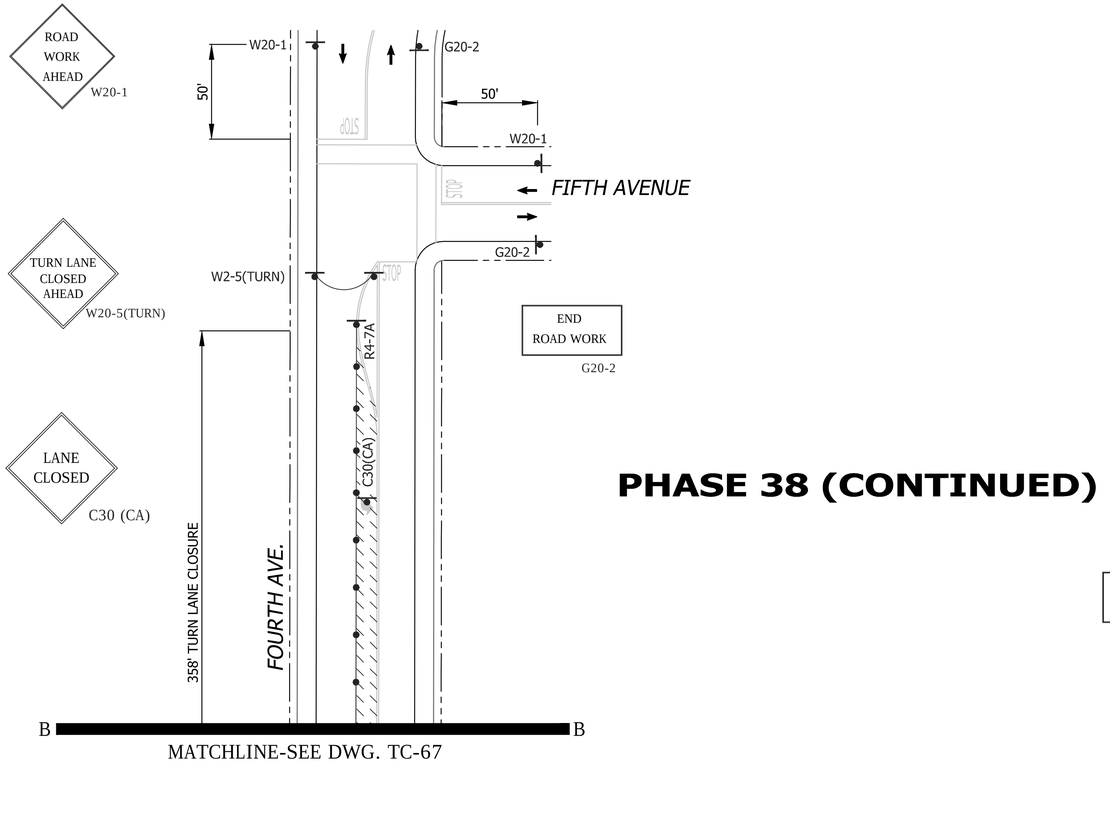
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

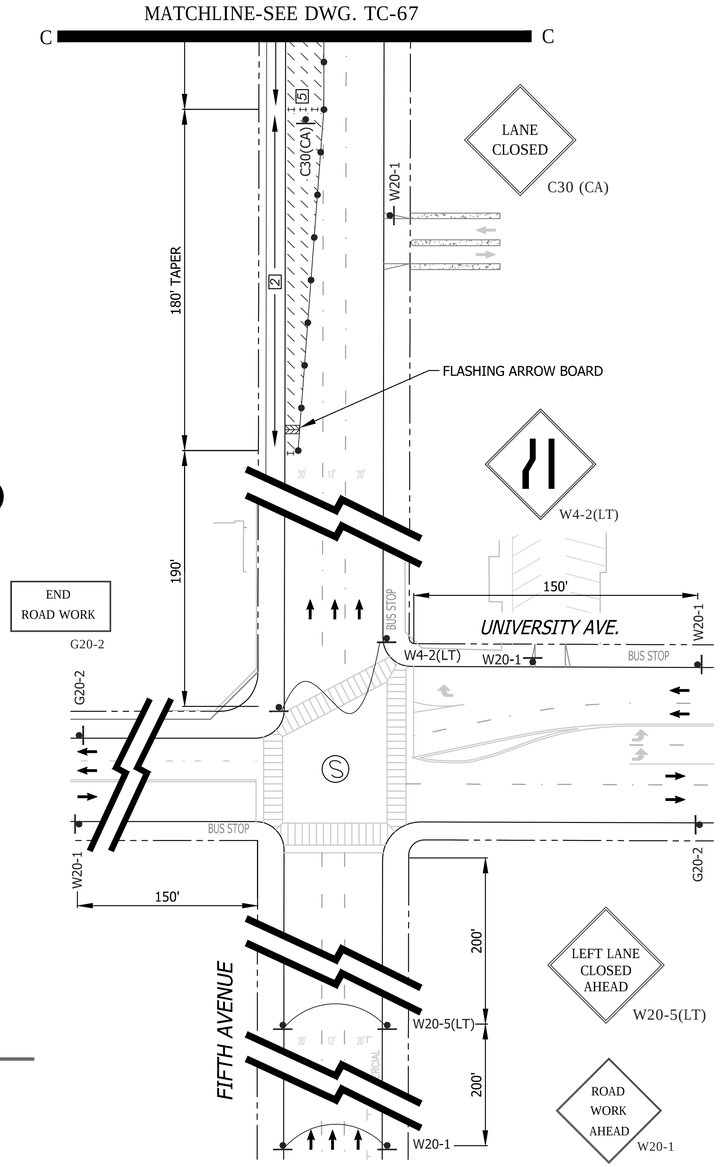
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 38 (CONTINUED)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 68

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
FOURTH AVENUE TO FIFTH AVENUE - PHASE 38
(CONTINUATION SHEET FOR TC-67)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 68 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T68-D

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

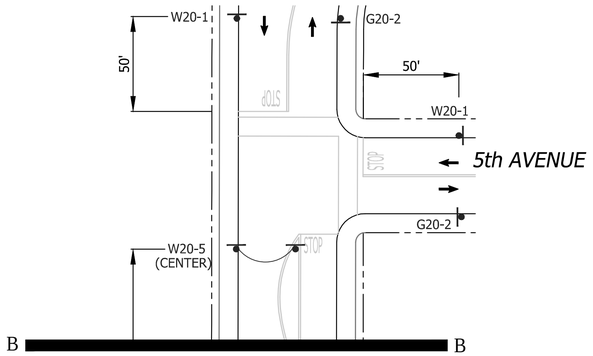
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

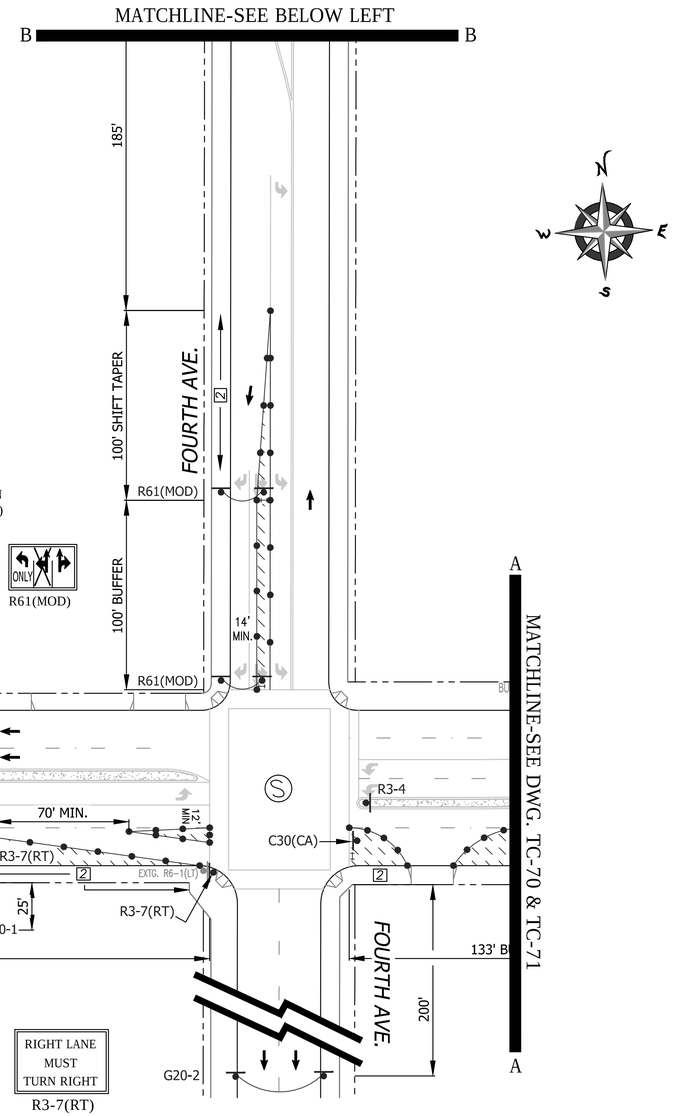
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

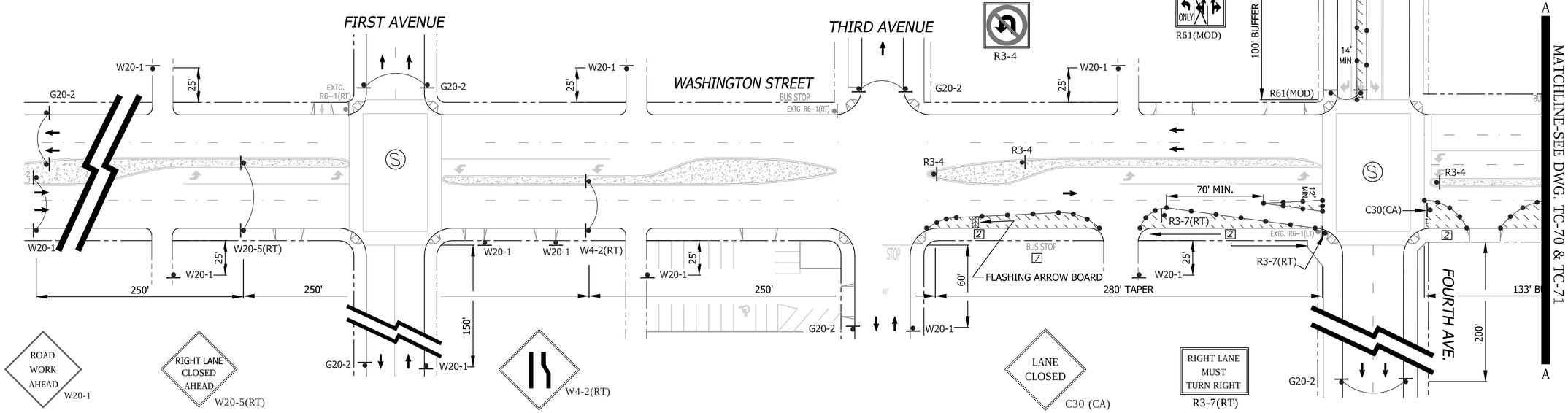




Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PHASE 39 & PHASE 40

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

R26 (MOD)

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 69

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE
PHASE 39

CITY OF SAN DIEGO, CALIFORNIA
SHEET 69 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

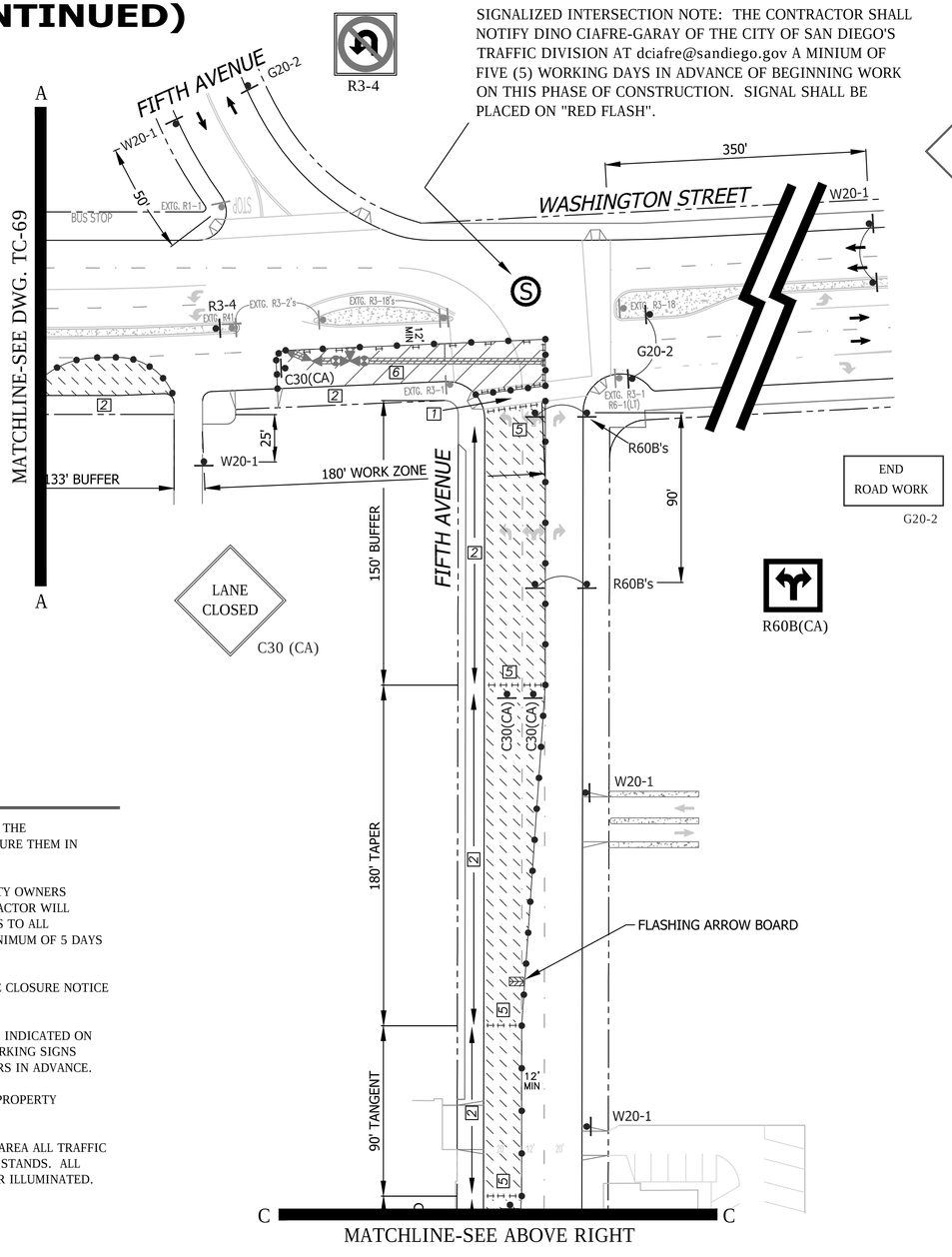
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

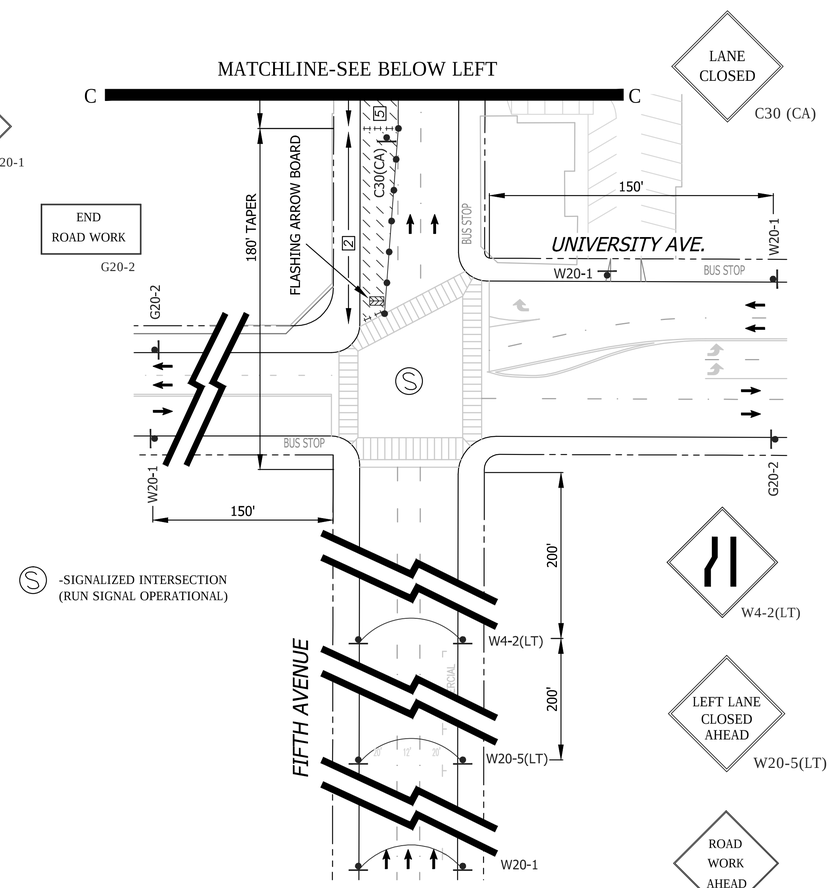
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T69-D

PHASE 39 (CONTINUED)





GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
4th/5th AVENUE	30	SEE DWG.		200 FT.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 70

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE - PHASE 39
(CONTINUATION SHEET FOR DWG. TC-69)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 70 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

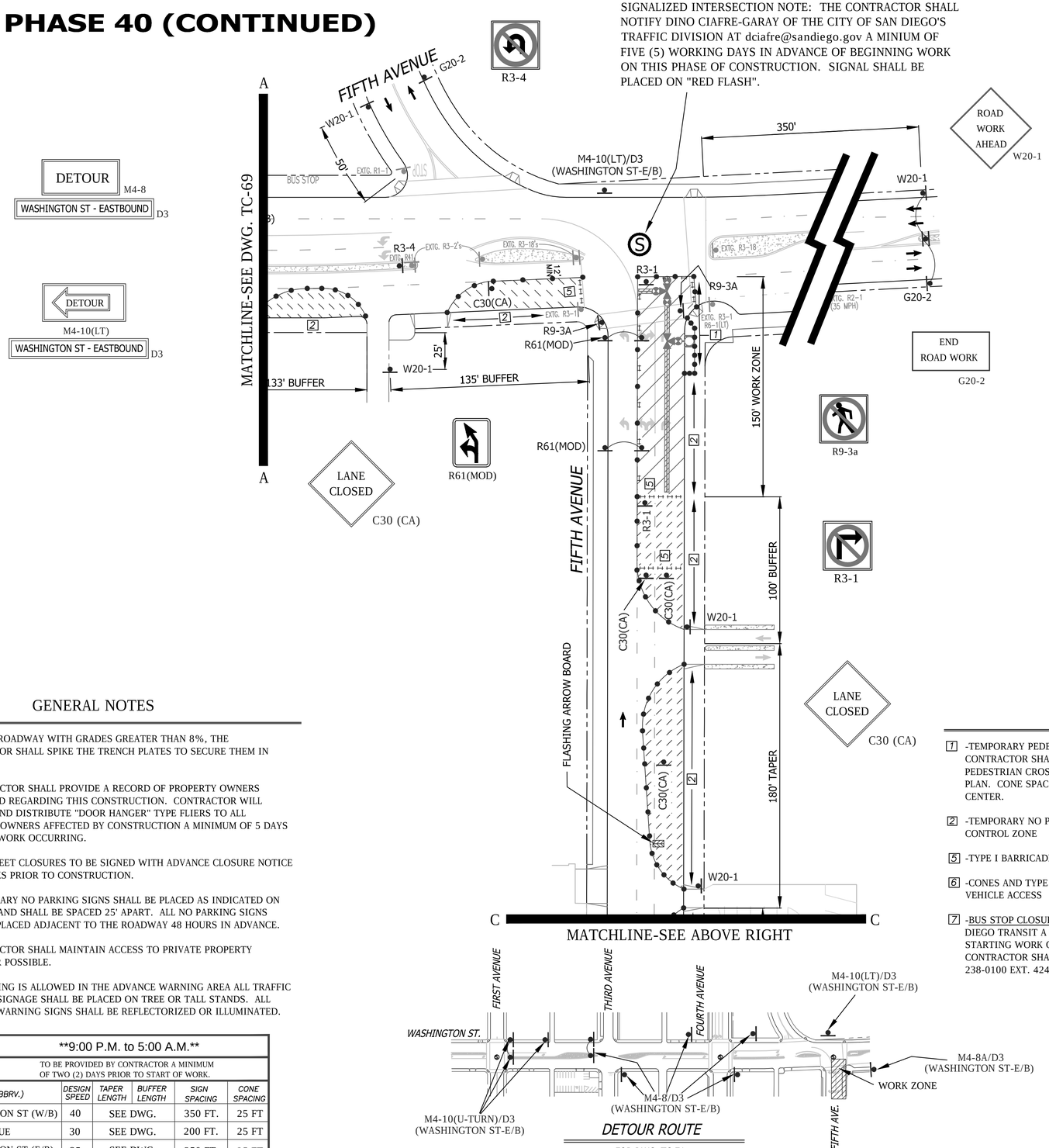
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

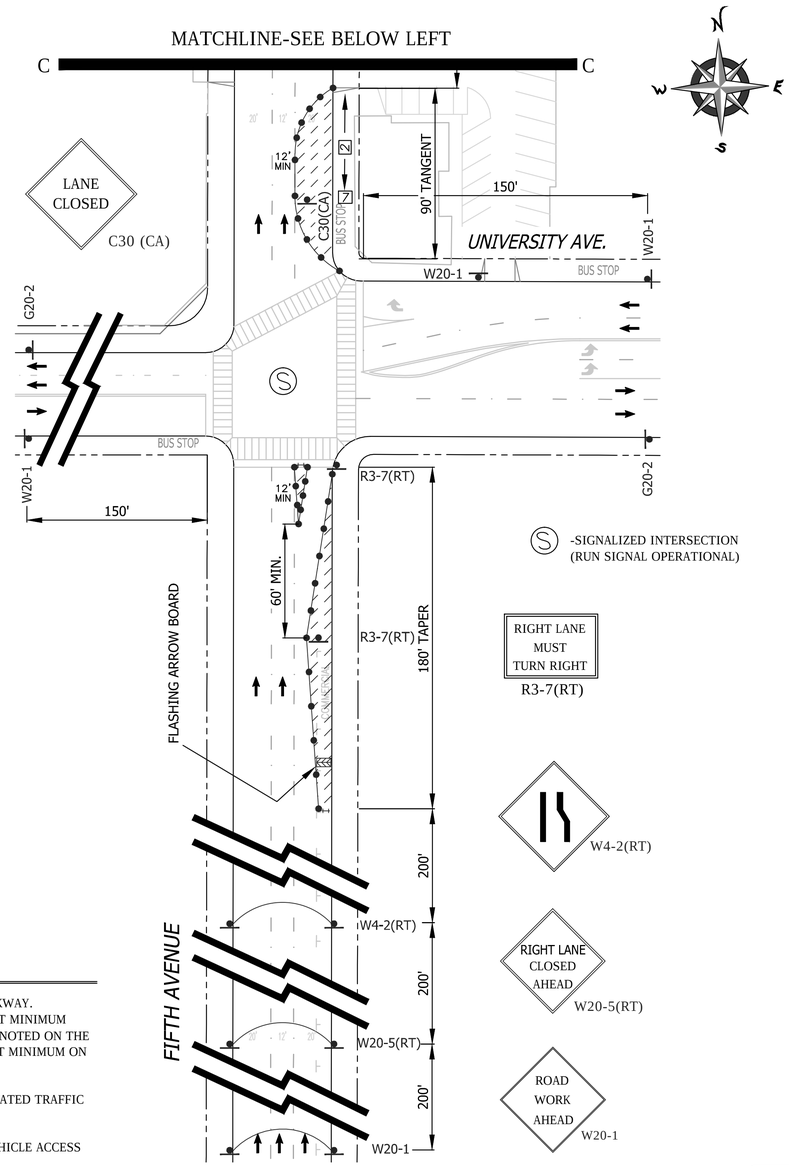
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T70-D

PHASE 40 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".





GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT	
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

TC- 71

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE - PHASE 40
(CONTINUATION SHEET FOR DWG. TC-69)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 71 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T71-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

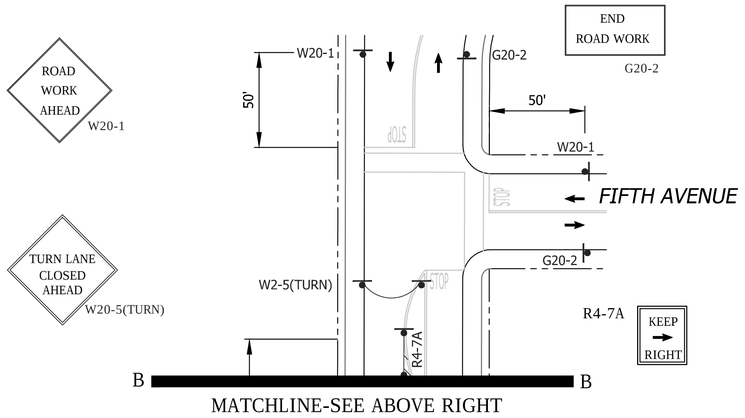
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

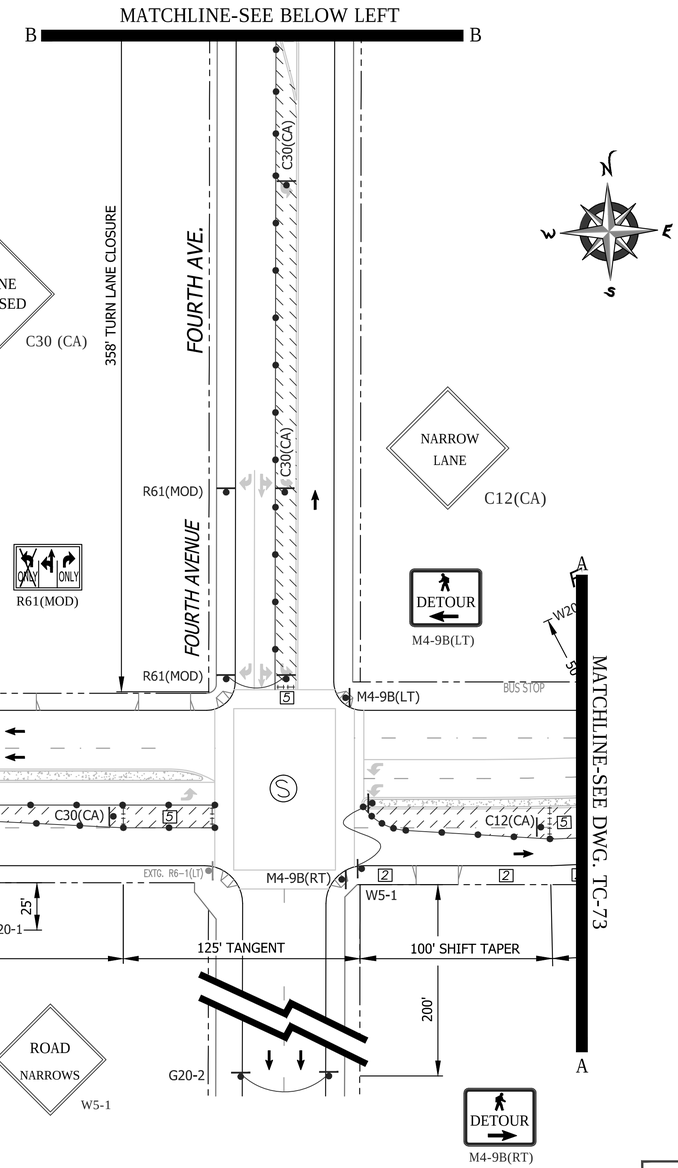
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

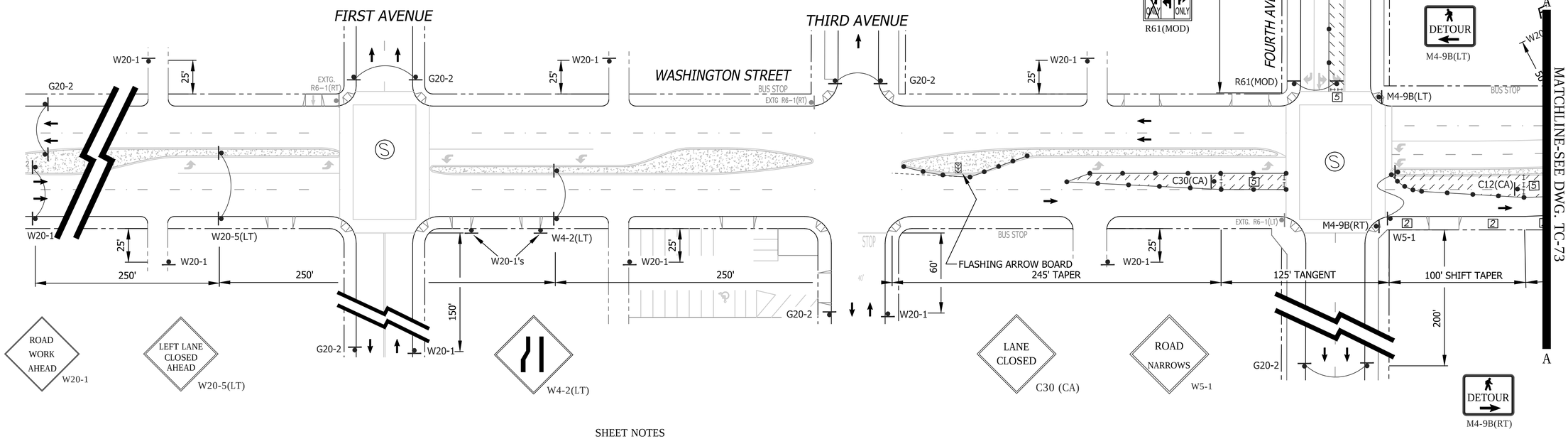




Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PHASE 41

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT	
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601G-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 72

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE
PHASE 41

CITY OF SAN DIEGO, CALIFORNIA
SHEET 72 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

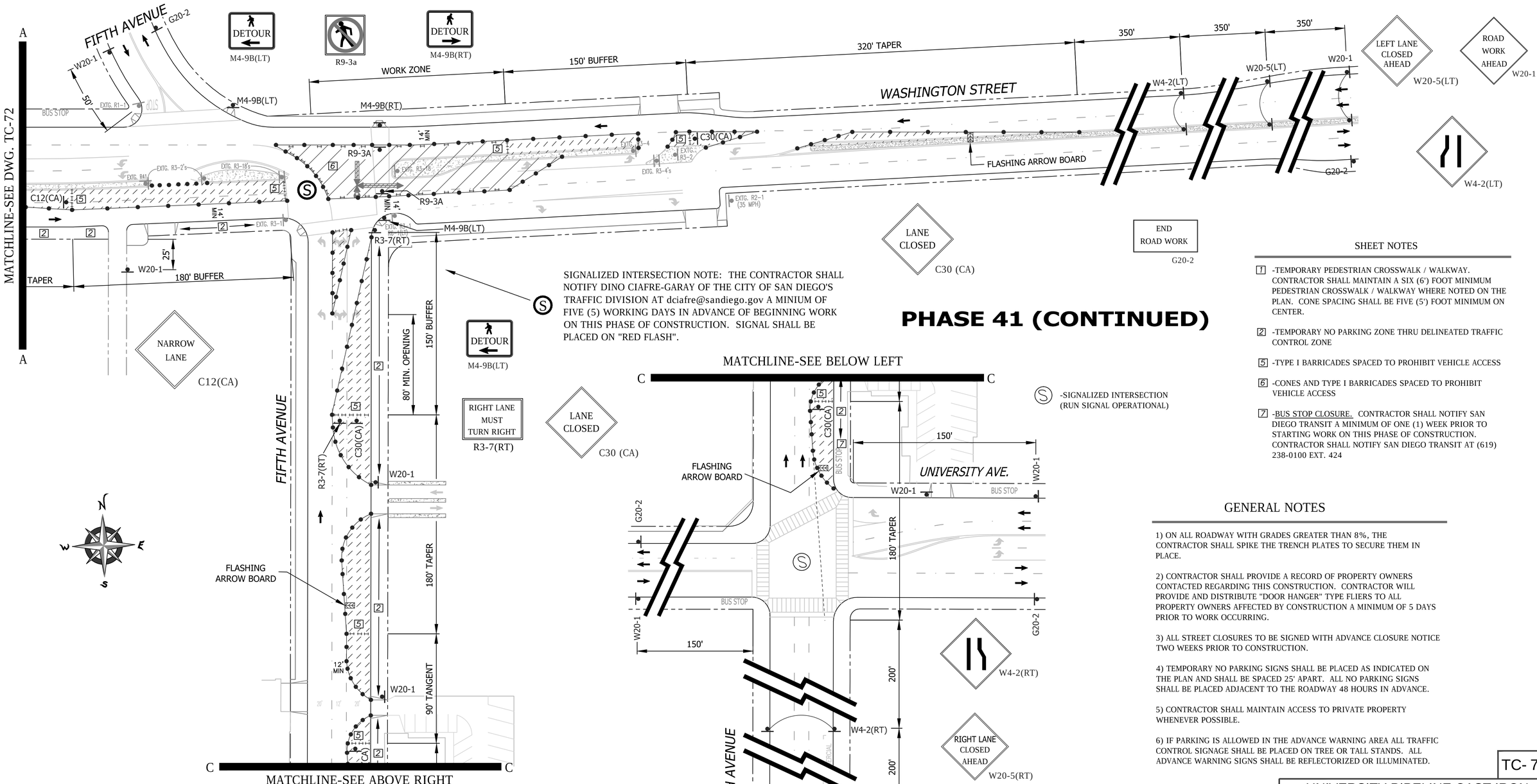
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T72-D



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC- 73

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.	350 FT.	25 FT	
4th/5th AVENUE	30	SEE DWG.	200 FT.	25 FT	
W. WASHINGTON ST (E/B)	35	SEE DWG.	250 FT.	25 FT	

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE - PHASE 41
(CONTINUATION SHEET FOR DWG. TC-72)

CITY OF SAN DIEGO, CALIFORNIA
SHEET 73 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T73-D

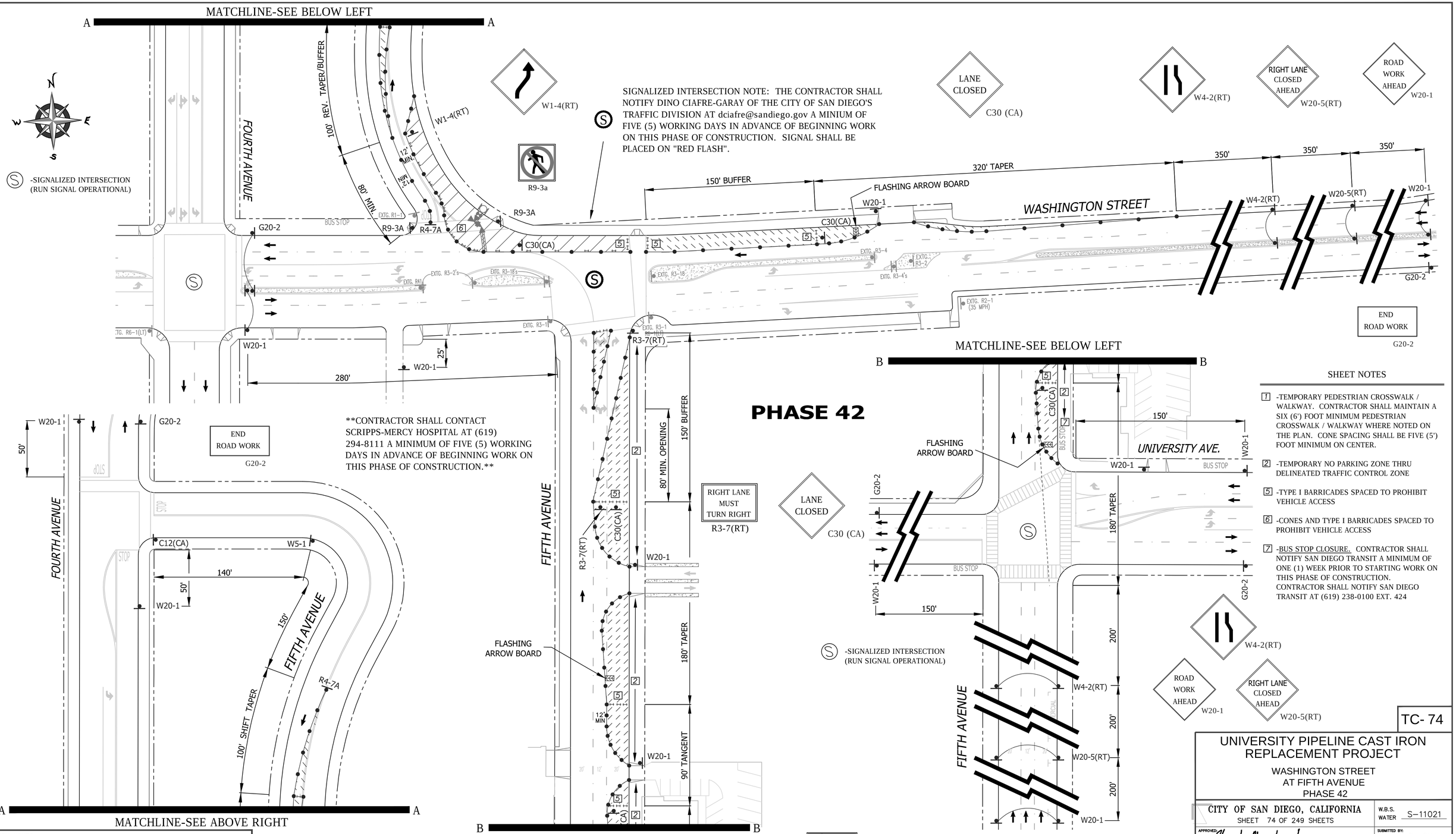
REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060T6-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
W. WASHINGTON ST (W/B)	40	SEE DWG.		350 FT.	25 FT
5th AVENUE	25-30	SEE DWG.		SEE DWG.	25 FT
W. WASHINGTON ST (E/B)	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373
DWG NAME: 13060T6-1A | DATE:06/12/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 74

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

WASHINGTON STREET
AT FIFTH AVENUE
PHASE 42

CITY OF SAN DIEGO, CALIFORNIA
SHEET 74 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

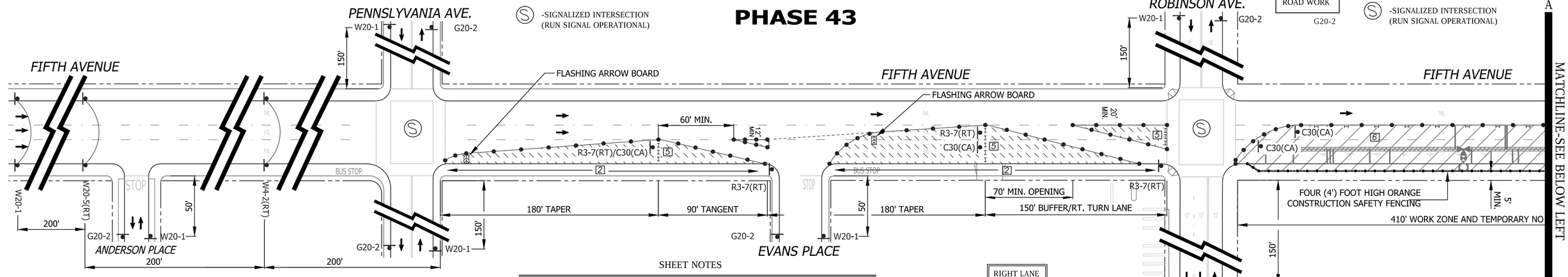
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T74-D

PHASE 43



-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ROAD WORK AHEAD
W20-1

RIGHT LANE CLOSED AHEAD
W20-5(RT)

W4-2(RT)

RIGHT LANE MUST TURN RIGHT
R3-7(RT)

LANE CLOSED
C30 (CA)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

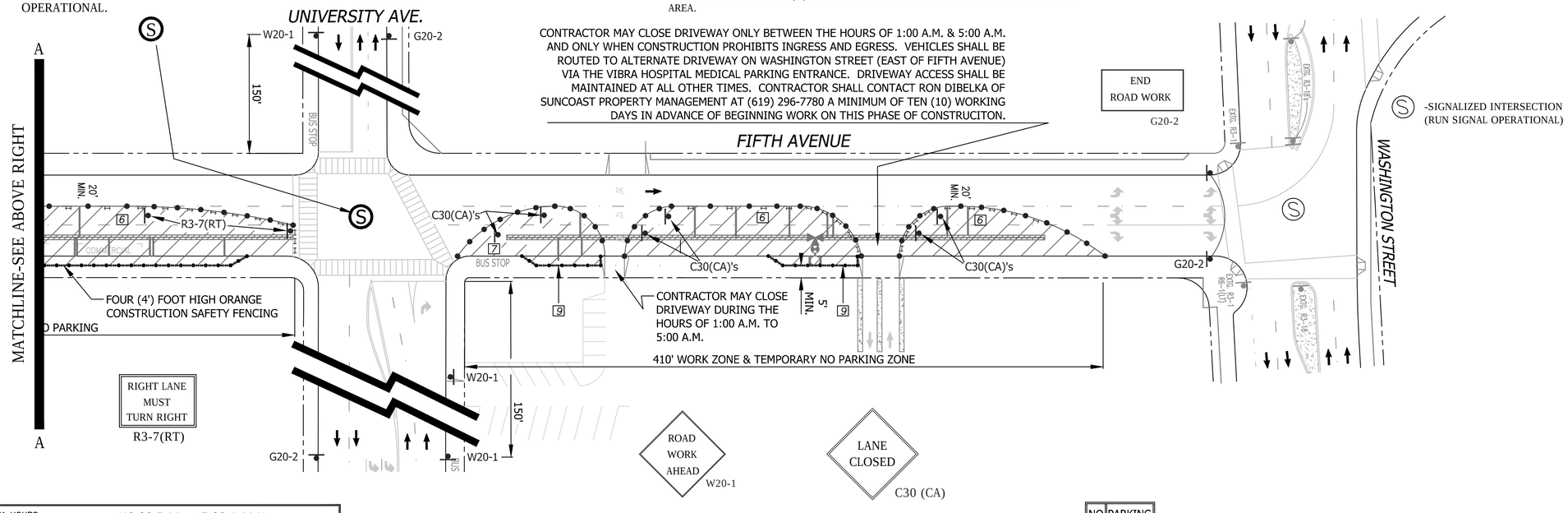
[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

CONTRACTOR MAY CLOSE DRIVEWAY ONLY BETWEEN THE HOURS OF 1:00 A.M. & 5:00 A.M. AND ONLY WHEN CONSTRUCTION PROHIBITS INGRESS AND EGRESS. VEHICLES SHALL BE ROUTED TO ALTERNATE DRIVEWAY ON WASHINGTON STREET (EAST OF FIFTH AVENUE) VIA THE VIBRA HOSPITAL MEDICAL PARKING ENTRANCE. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL OTHER TIMES. CONTRACTOR SHALL CONTACT RON DIBELKA OF SUNCOAST PROPERTY MANAGEMENT AT (619) 296-7780 A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCITON.



ROAD WORK AHEAD
W20-1

LANE CLOSED
C30 (CA)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060T6-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 75

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE -
ROBINSON AVENUE TO WASHINGTON STREET
PHASE 43

CITY OF SAN DIEGO, CALIFORNIA
SHEET 75 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

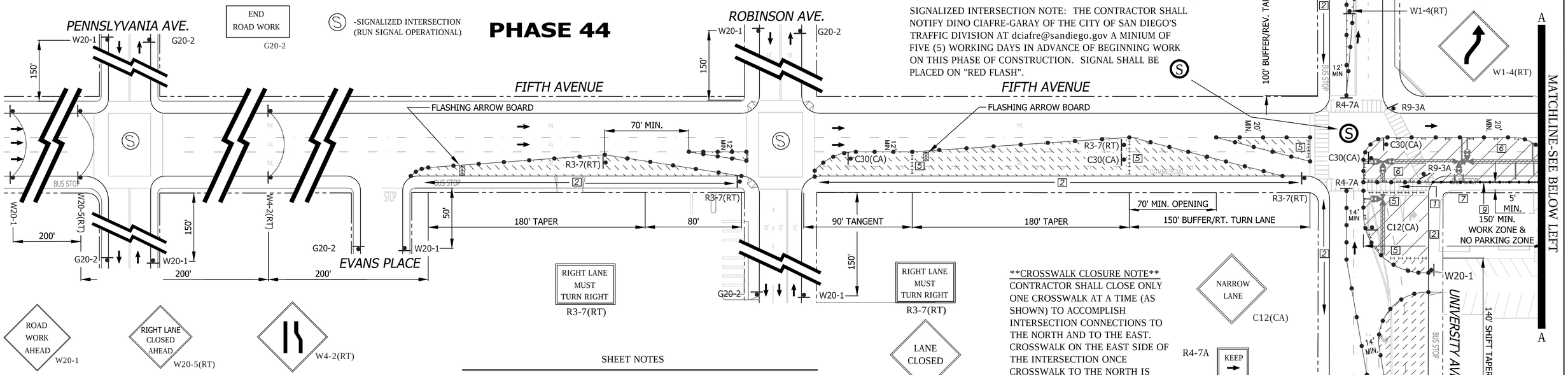
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T75-D

PHASE 44



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

CROSSWALK CLOSURE NOTE
CONTRACTOR SHALL CLOSE ONLY ONE CROSSWALK AT A TIME (AS SHOWN) TO ACCOMPLISH INTERSECTION CONNECTIONS TO THE NORTH AND TO THE EAST. CROSSWALK ON THE EAST SIDE OF THE INTERSECTION ONCE CROSSWALK TO THE NORTH IS REOPENED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

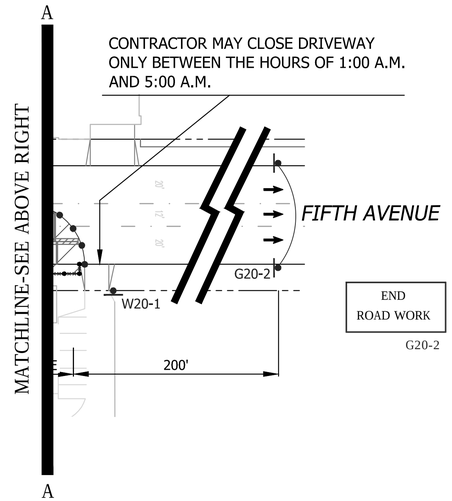
[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

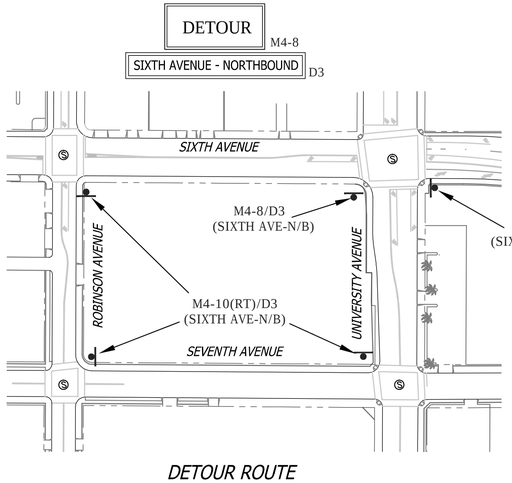
[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.



DETOUR
M4-10(RT)
SIXTH AVENUE - NORTHBOUND D3



DETOUR ROUTE
FOR DWGs. TC-76 & TC-77

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	25-30	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 44

CITY OF SAN DIEGO, CALIFORNIA
SHEET 76 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

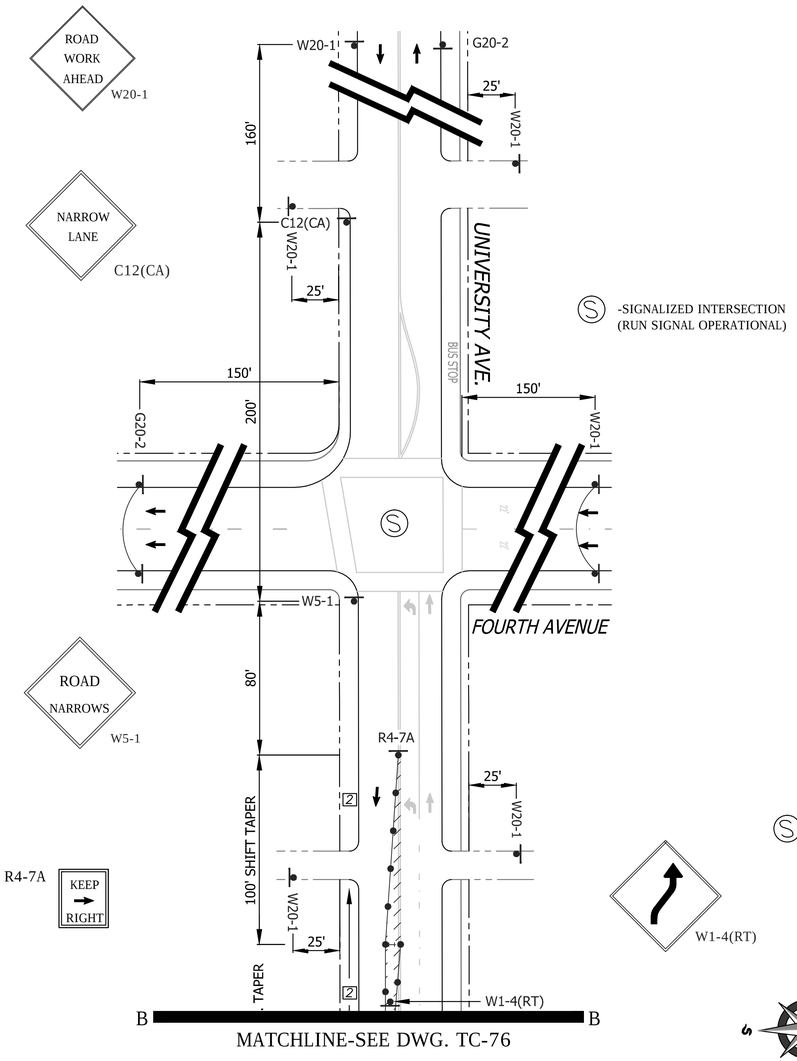
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

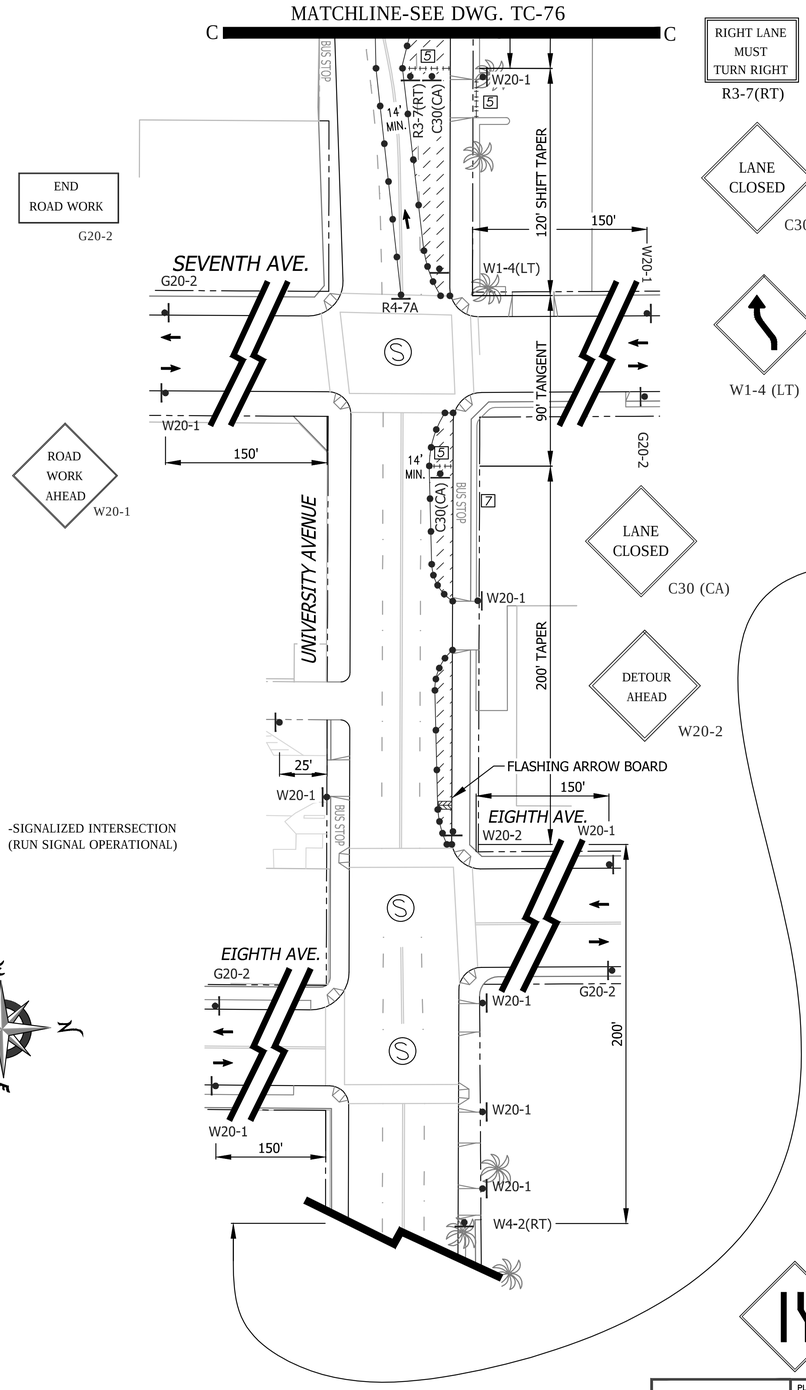
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

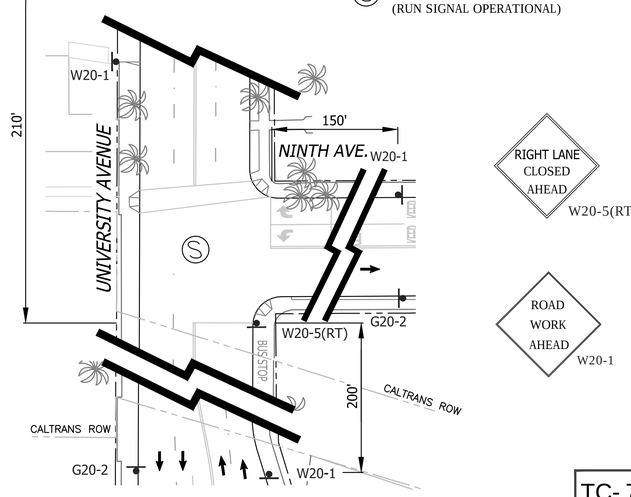
TC- 76

36656-T76-D

PHASE 44 (CONTINUED)







GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	25-30	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601G-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 77

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 44

CITY OF SAN DIEGO, CALIFORNIA
SHEET 77 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

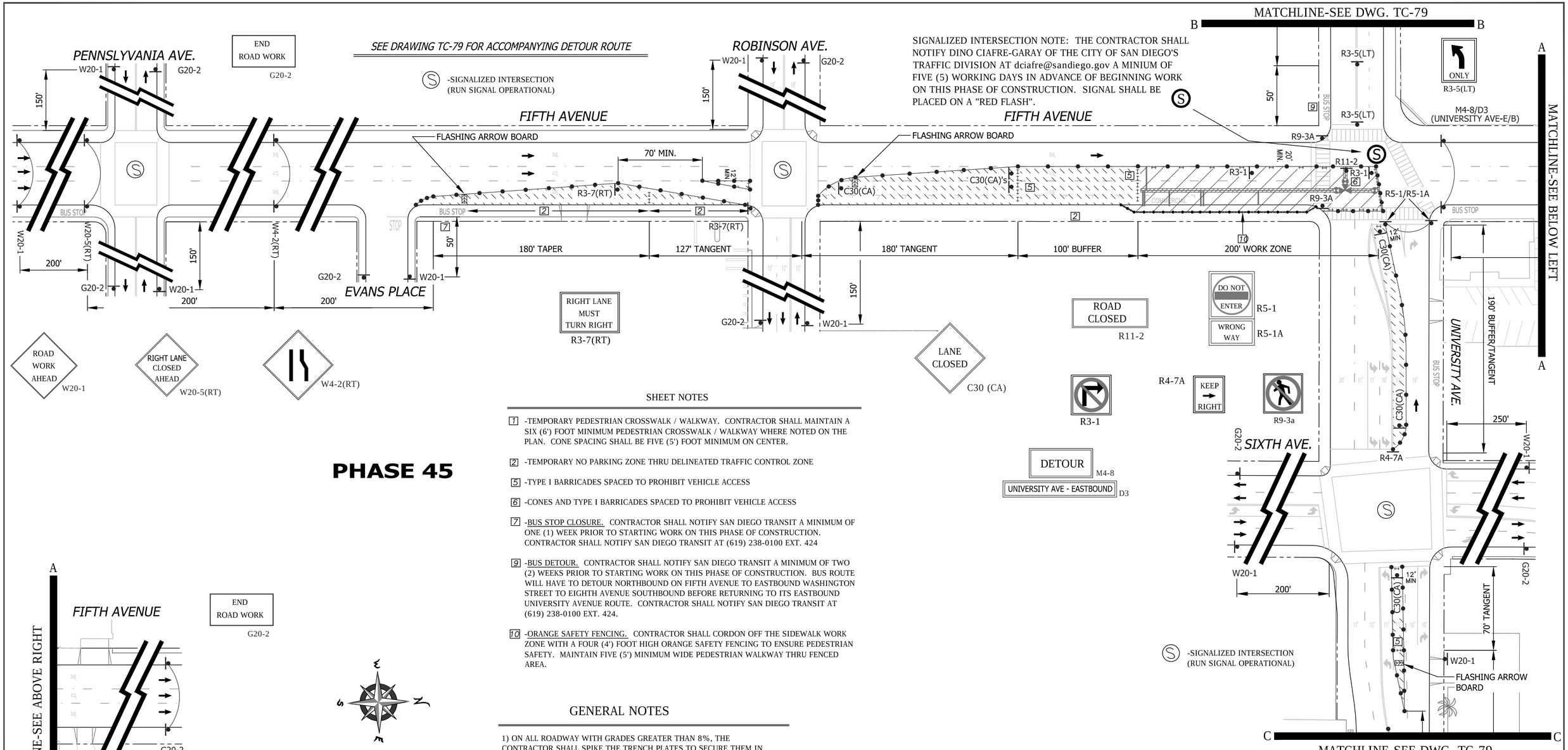
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

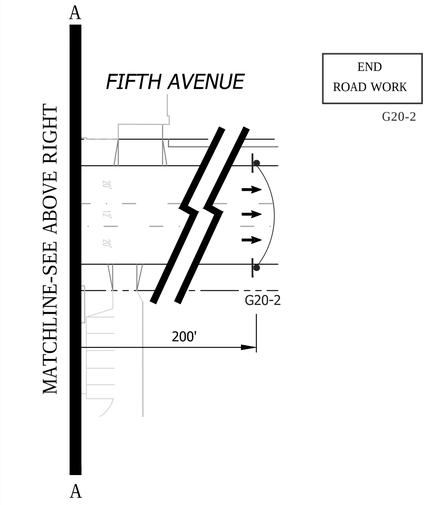
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T77-D



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON A "RED FLASH".

PHASE 45



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

[10] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 78

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 45

CITY OF SAN DIEGO, CALIFORNIA
SHEET 78 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T78-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

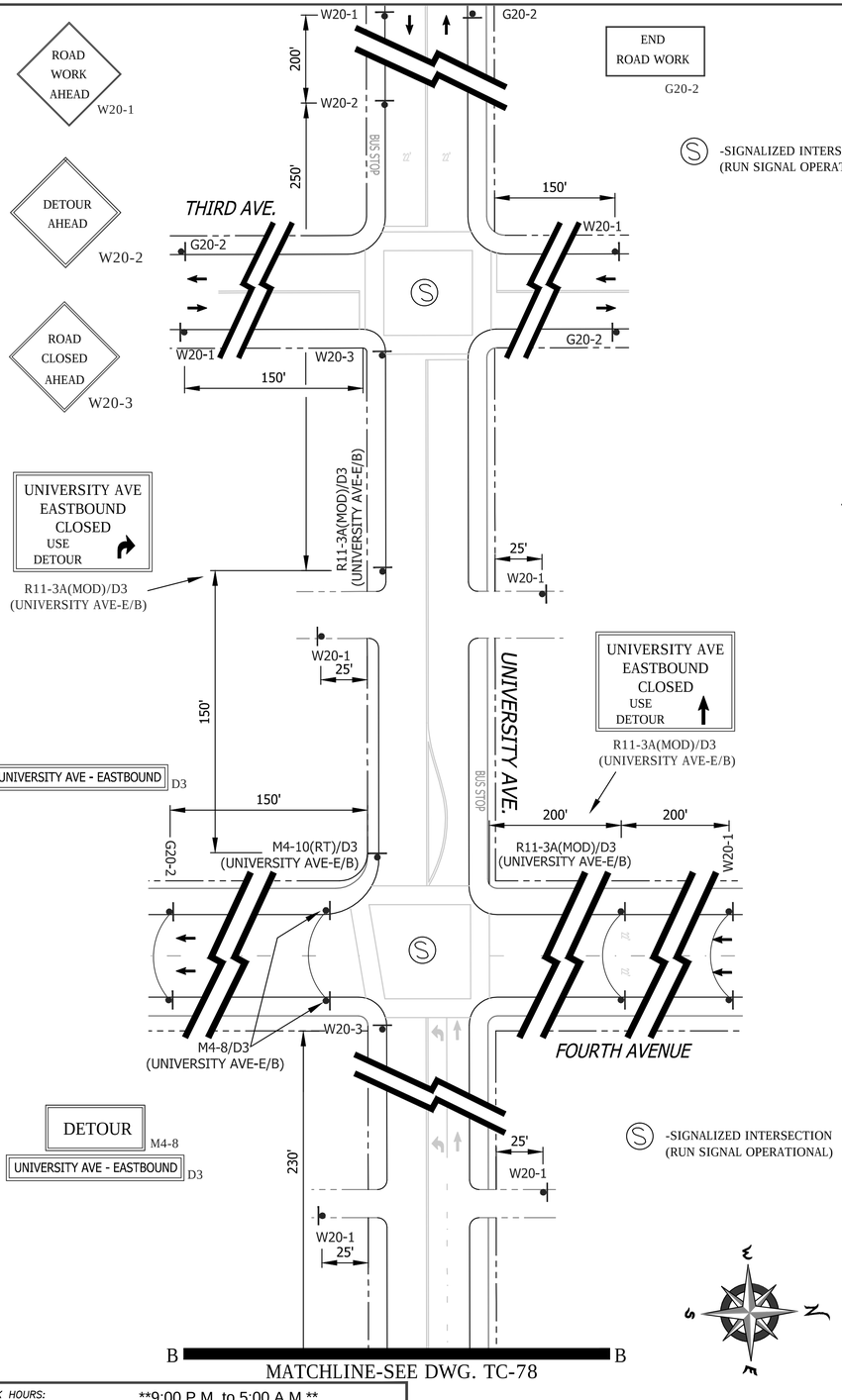
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

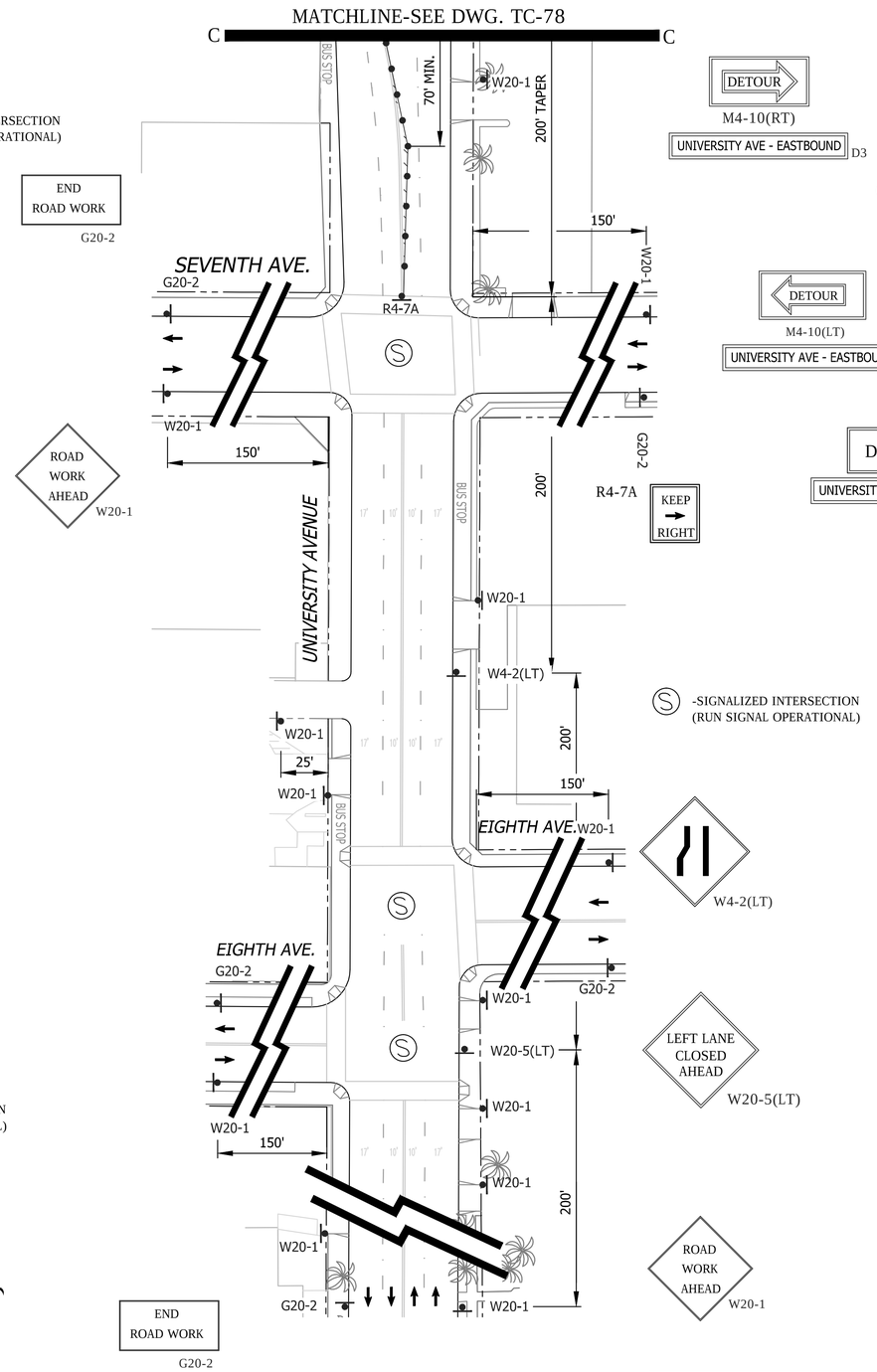
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

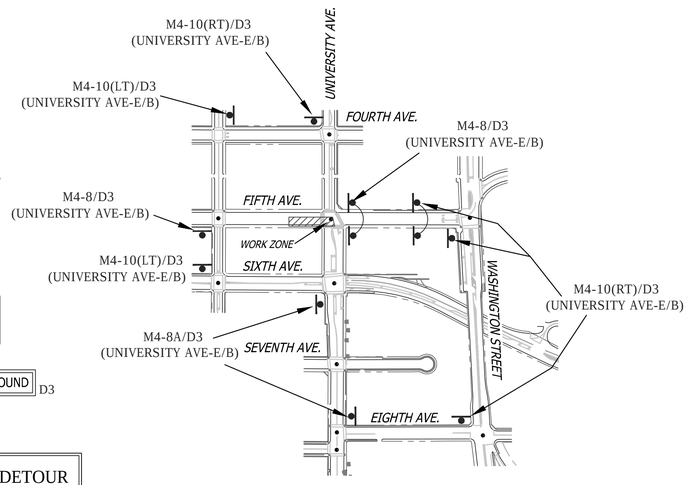
DWG NAME: 13060TC-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 45 (CONTINUED)







NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

9 -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

TC- 79

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 45

CITY OF SAN DIEGO, CALIFORNIA
SHEET 79 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T79-D

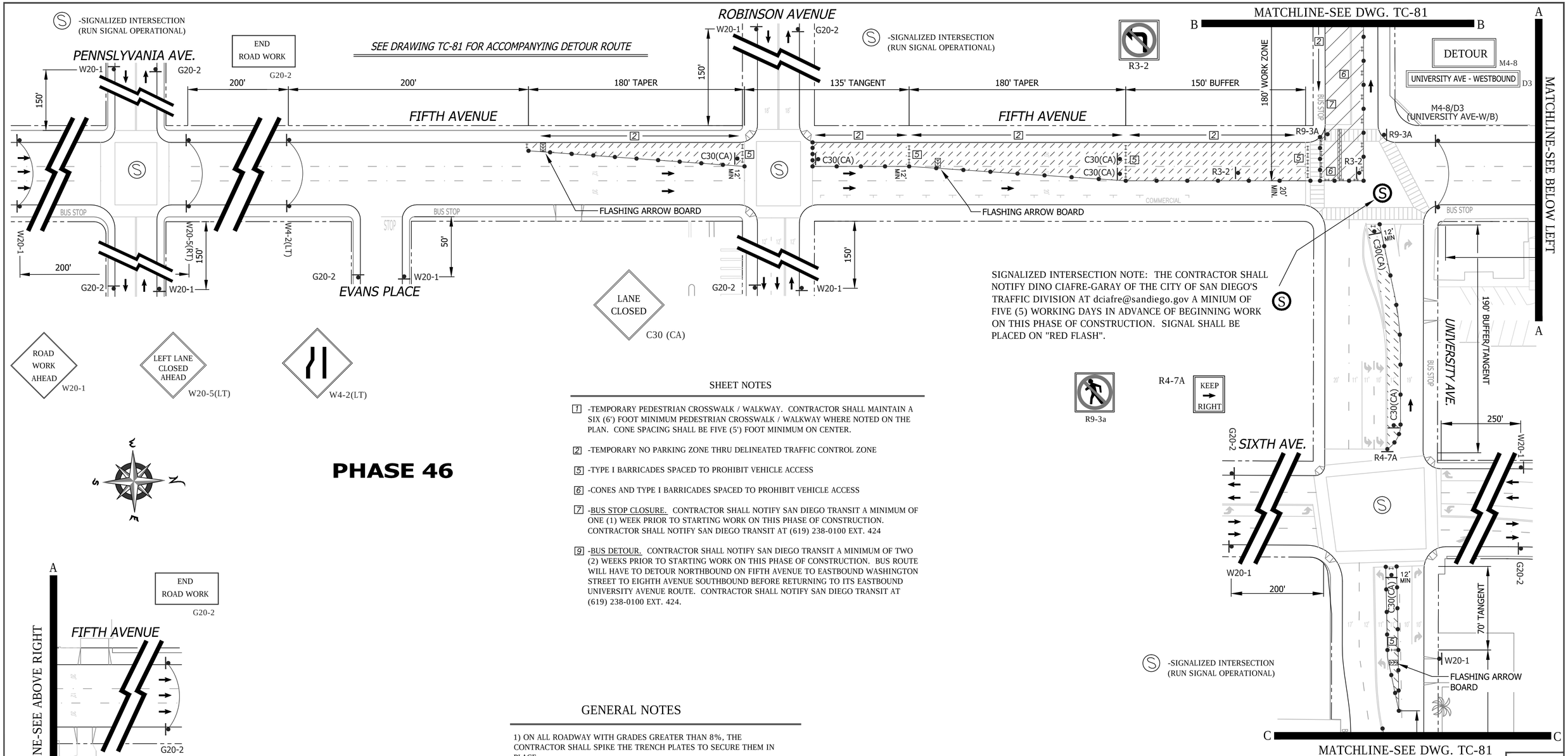
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060T6-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

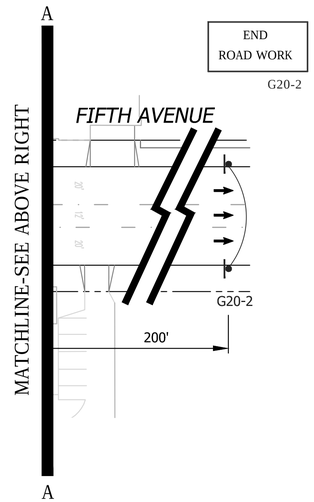


ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

PHASE 46



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 80

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 46

CITY OF SAN DIEGO, CALIFORNIA
SHEET 80 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

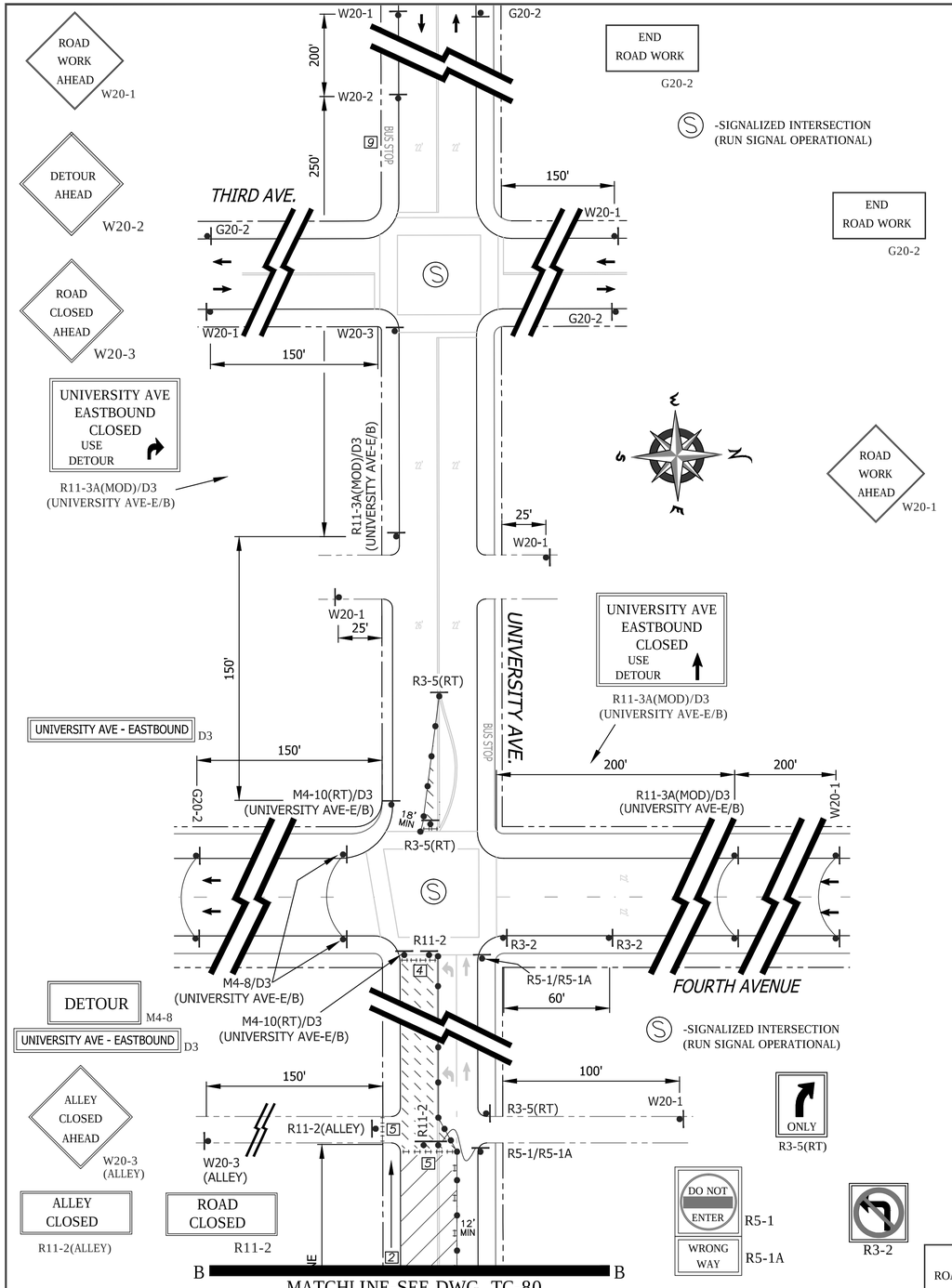
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

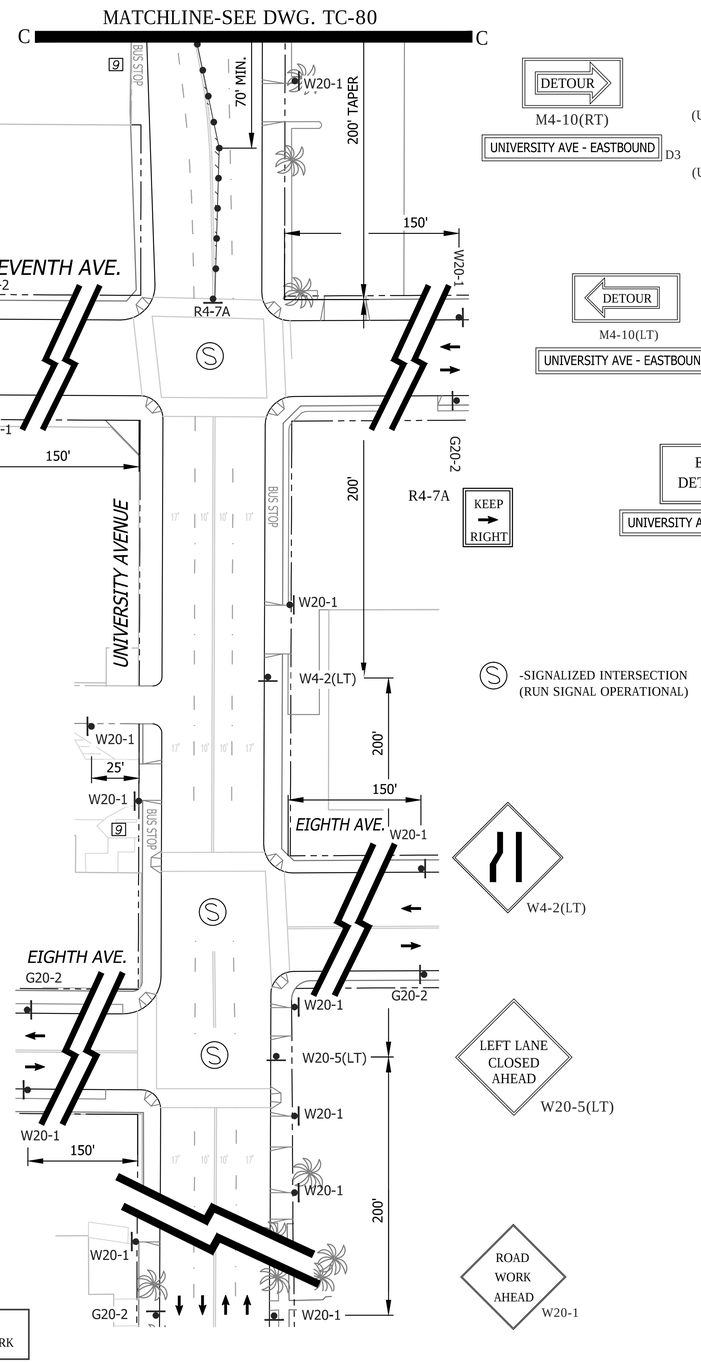
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

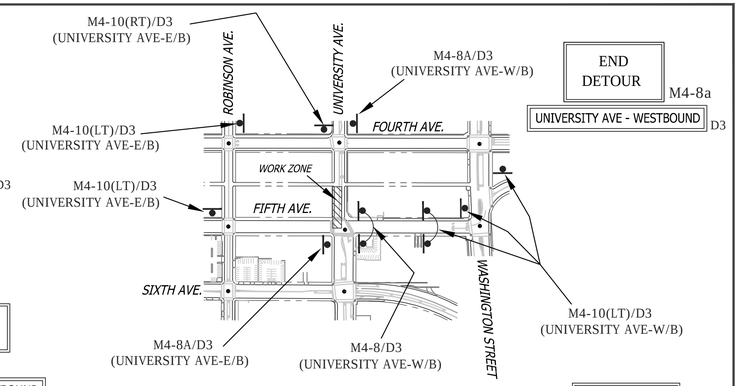
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T80-D

PHASE 46 (CONTINUED)







NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 9:00 P.M. TO 5:00 A.M.
R26 (MOD)

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	SEE DWG.		200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

TC- 81

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT UNIVERSITY AVENUE
PHASE 46

CITY OF SAN DIEGO, CALIFORNIA
SHEET 81 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T81-D

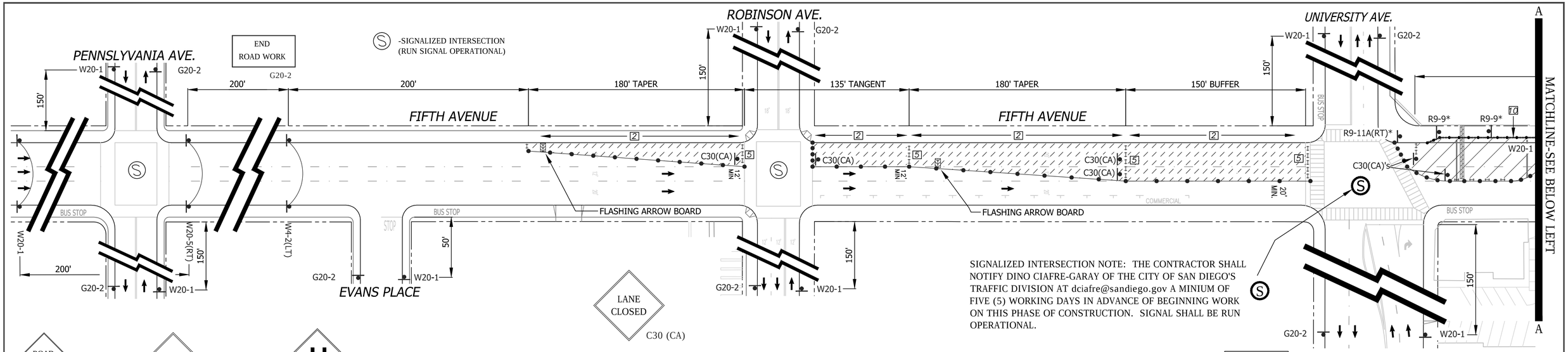
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



LANE CLOSED
C30 (CA)

SIDEWALK CLOSED
CROSS HERE
R9-11A(RT)

SIDEWALK CLOSED
R9-9

ROAD WORK AHEAD
W20-1

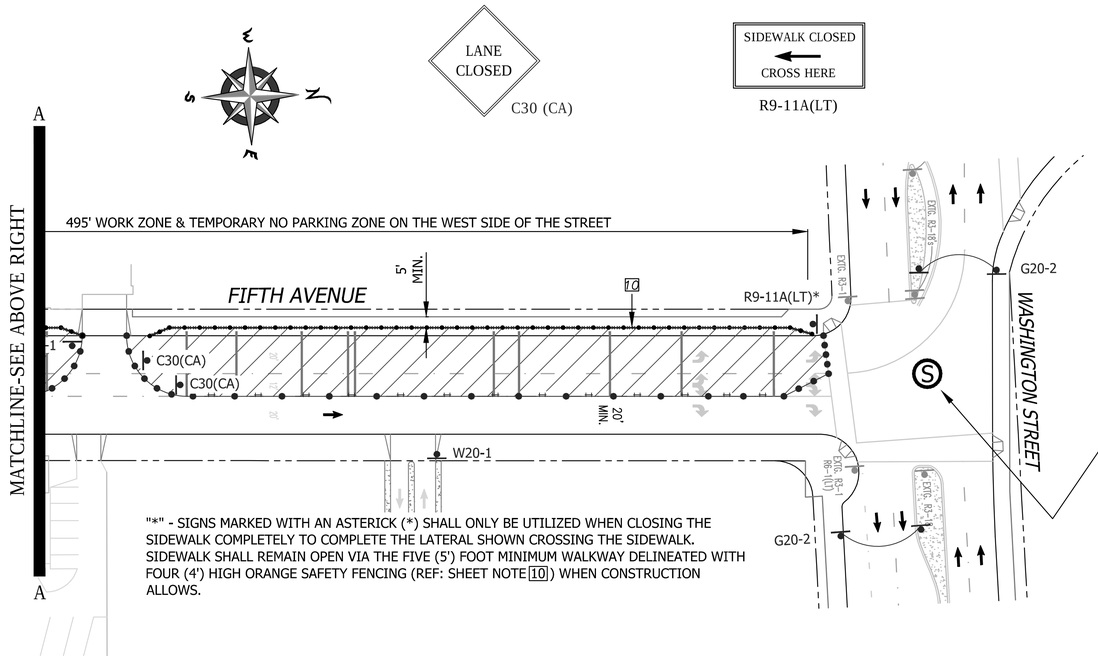
LEFT LANE CLOSED AHEAD
W20-5(LT)

W4-2(LT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

PHASE 47

"TYPICAL WORK ZONE FOR THE CONSTRUCTION OF LATERALS ON FIFTH AVENUE BETWEEN ROBINSON AVENUE AND WASHINGTON STREET"



"*" - SIGNS MARKED WITH AN ASTERICK (*) SHALL ONLY BE UTILIZED WHEN CLOSING THE SIDEWALK COMPLETELY TO COMPLETE THE LATERAL SHOWN CROSSING THE SIDEWALK. SIDEWALK SHALL REMAIN OPEN VIA THE FIVE (5') FOOT MINIMUM WALKWAY DELINEATED WITH FOUR (4') HIGH ORANGE SAFETY FENCING (REF: SHEET NOTE [10]) WHEN CONSTRUCTION ALLOWS.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RECALL".

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

[10] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH A FOUR (4') FOOT HIGH ORANGE SAFETY FENCING TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

TC- 82

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
ROBINSON AVENUE TO WASHINGTON AVENUE
PHASE 47

CITY OF SAN DIEGO, CALIFORNIA
SHEET 82 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

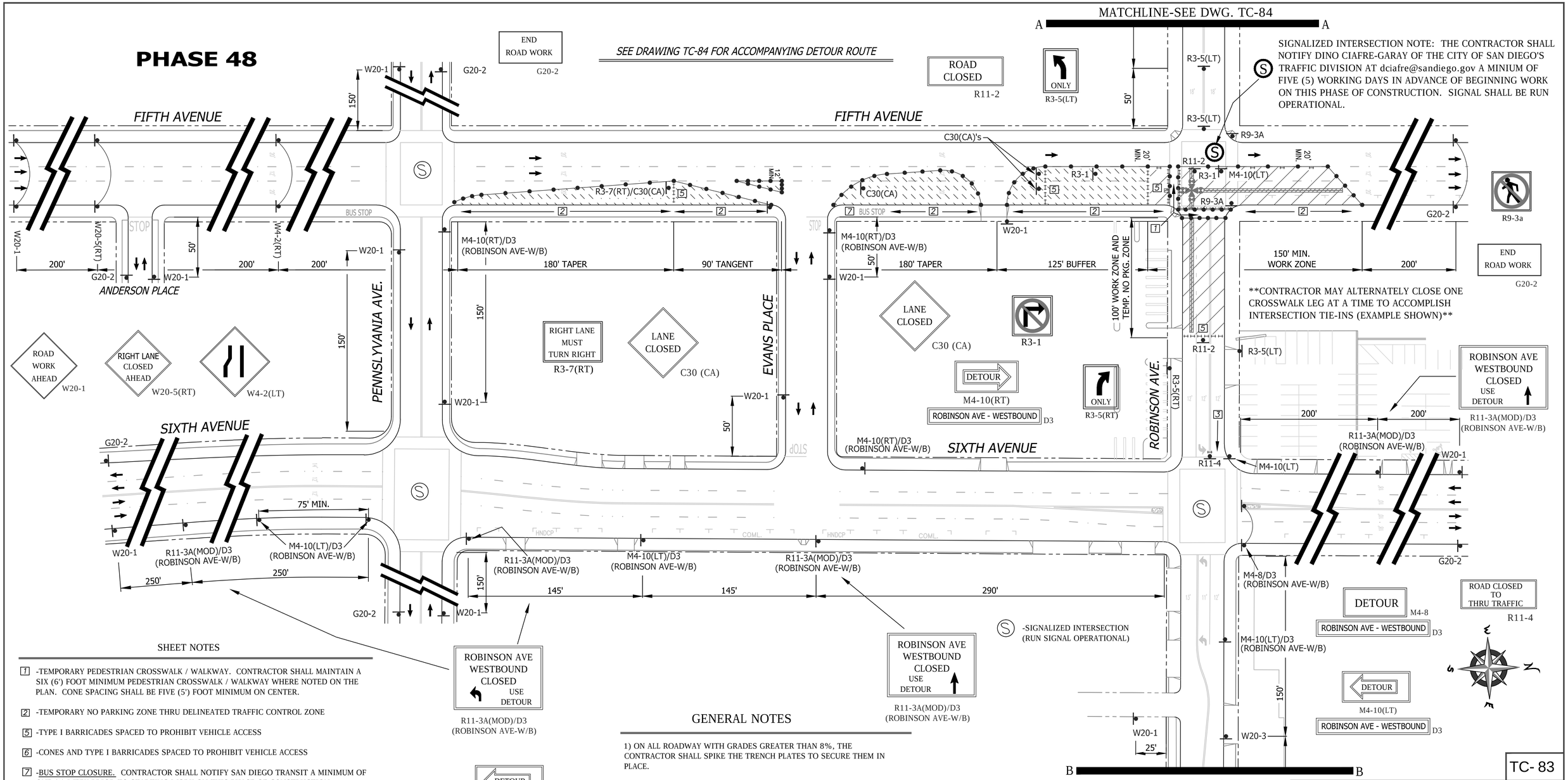
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T82-D

PHASE 48



S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	SEE DWG.		150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 83

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 48

CITY OF SAN DIEGO, CALIFORNIA
SHEET 83 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

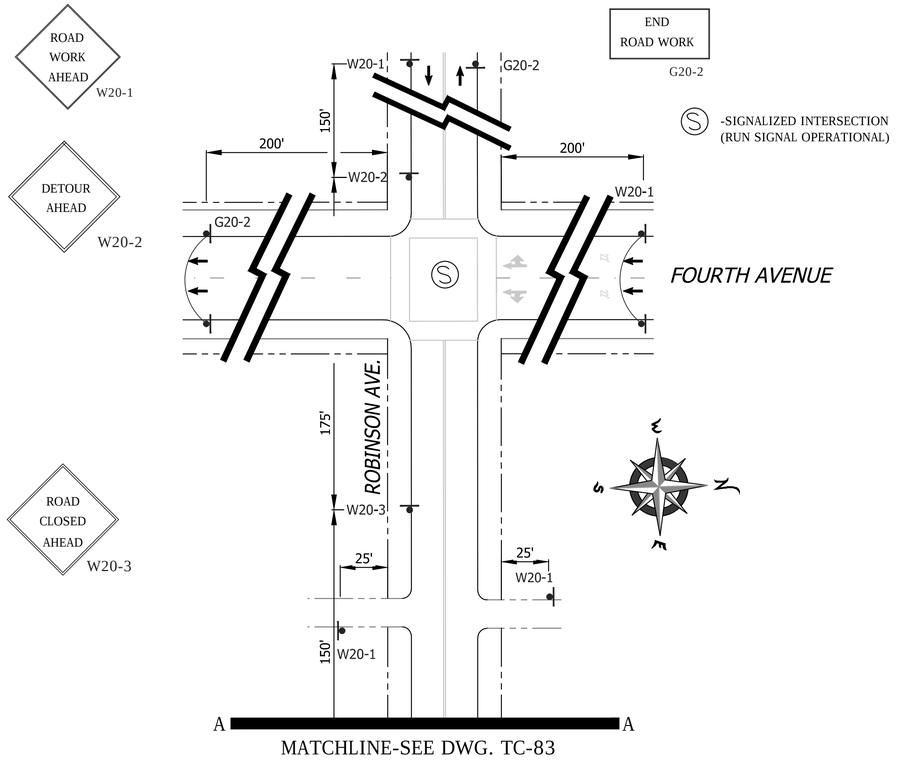
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

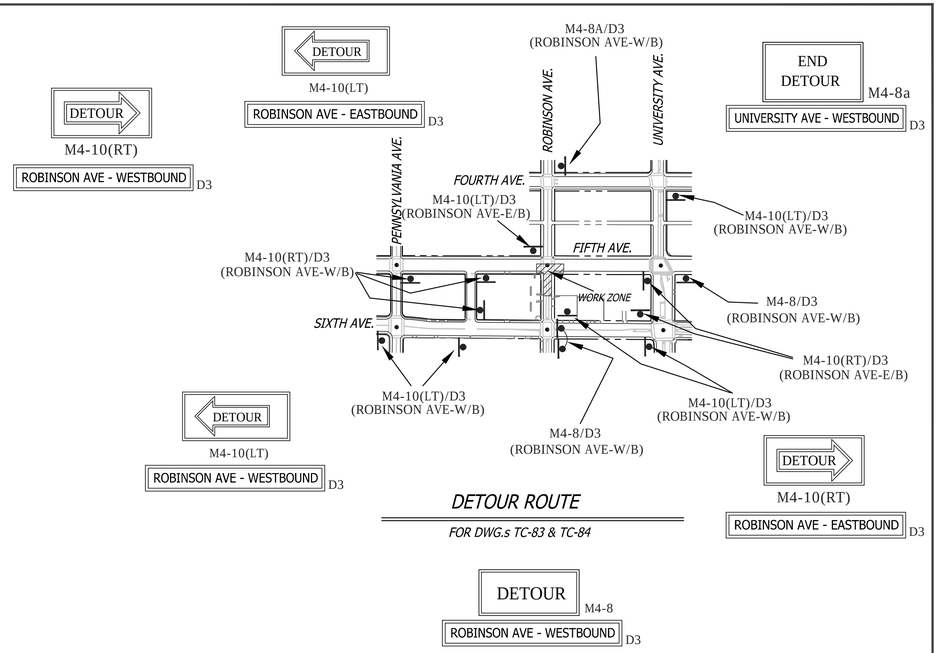
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T83-D



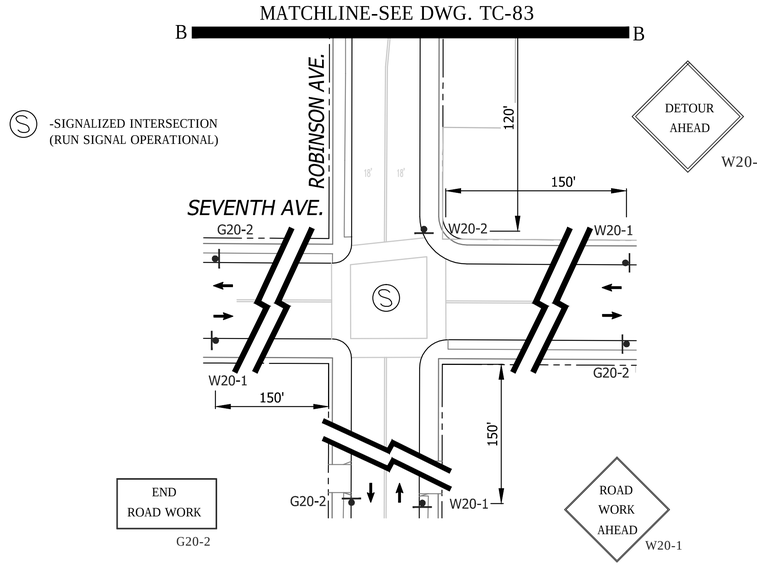
PHASE 48 (CONTINUED)



DETOUR ROUTE

FOR DWG.s TC-83 & TC-84

MATCHLINE-SEE DWG. TC-83



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -BUS DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF TWO (2) WEEKS PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. BUS ROUTE WILL HAVE TO DETOUR NORTHBOUND ON FIFTH AVENUE TO EASTBOUND WASHINGTON STREET TO EIGHTH AVENUE SOUTHBOUND BEFORE RETURNING TO ITS EASTBOUND UNIVERSITY AVENUE ROUTE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601b-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 84

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 48

CITY OF SAN DIEGO, CALIFORNIA
SHEET 84 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

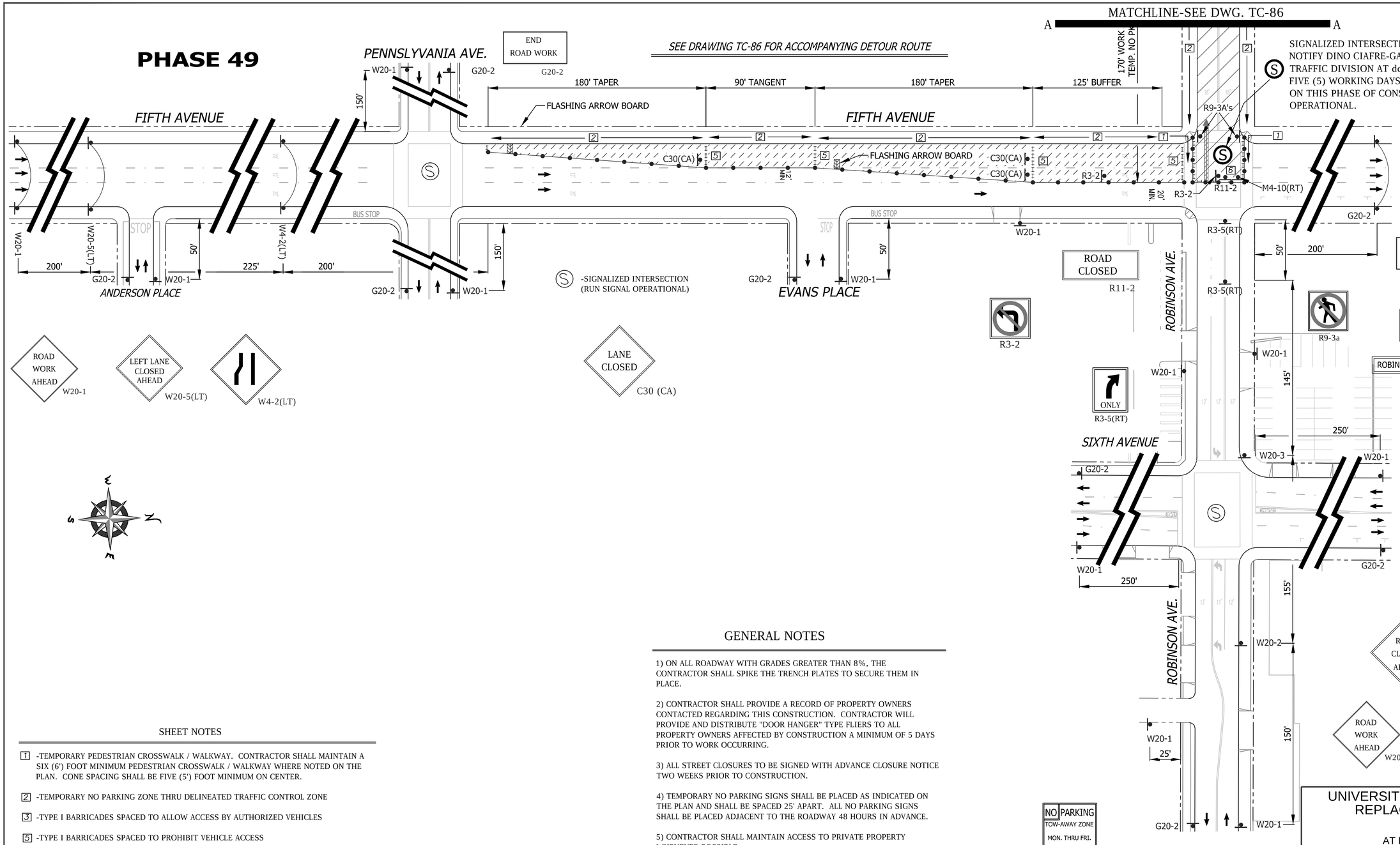
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T84-D

PHASE 49



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	250 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130602C-1A | DATE:06/13/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 85

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 49

CITY OF SAN DIEGO, CALIFORNIA
SHEET 85 OF 249 SHEETS

W.B.S. WATER S-11021

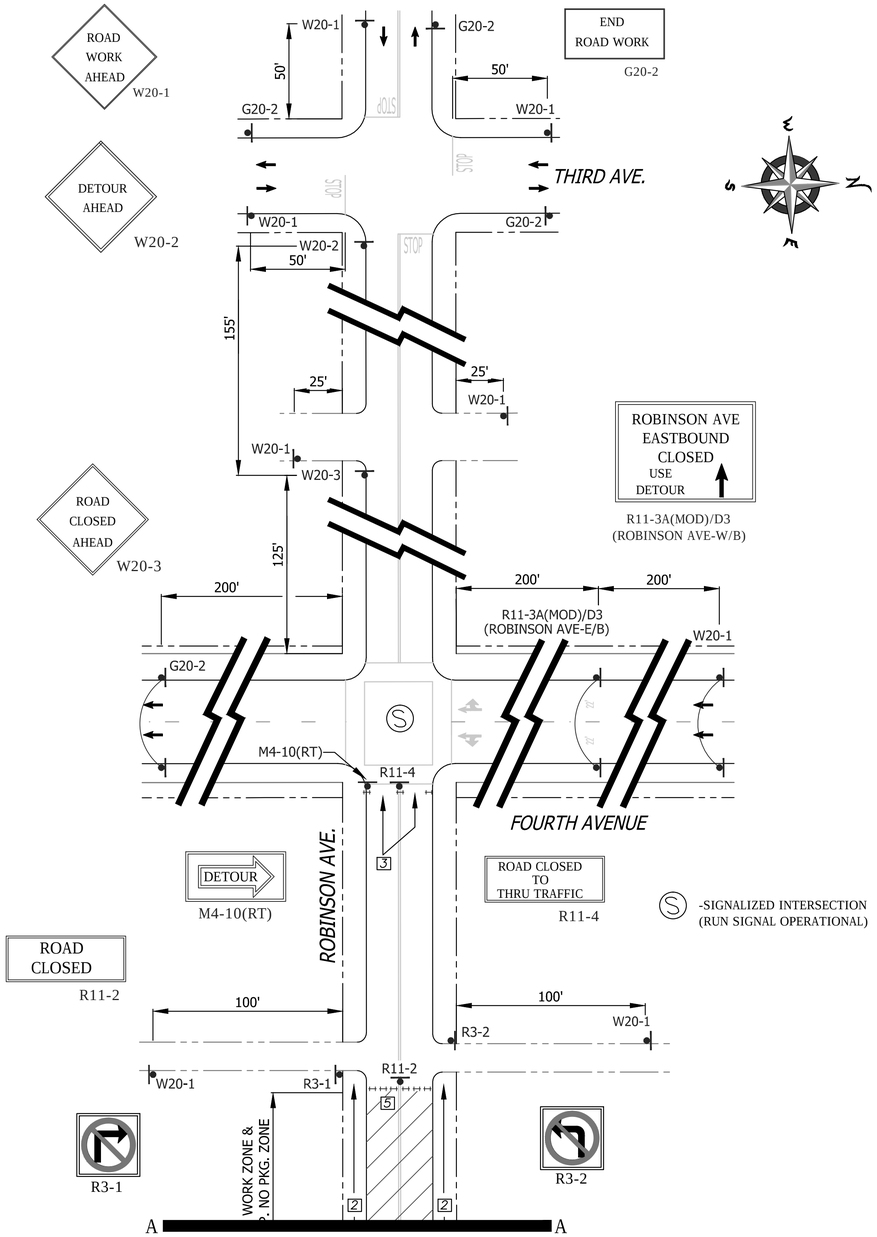
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

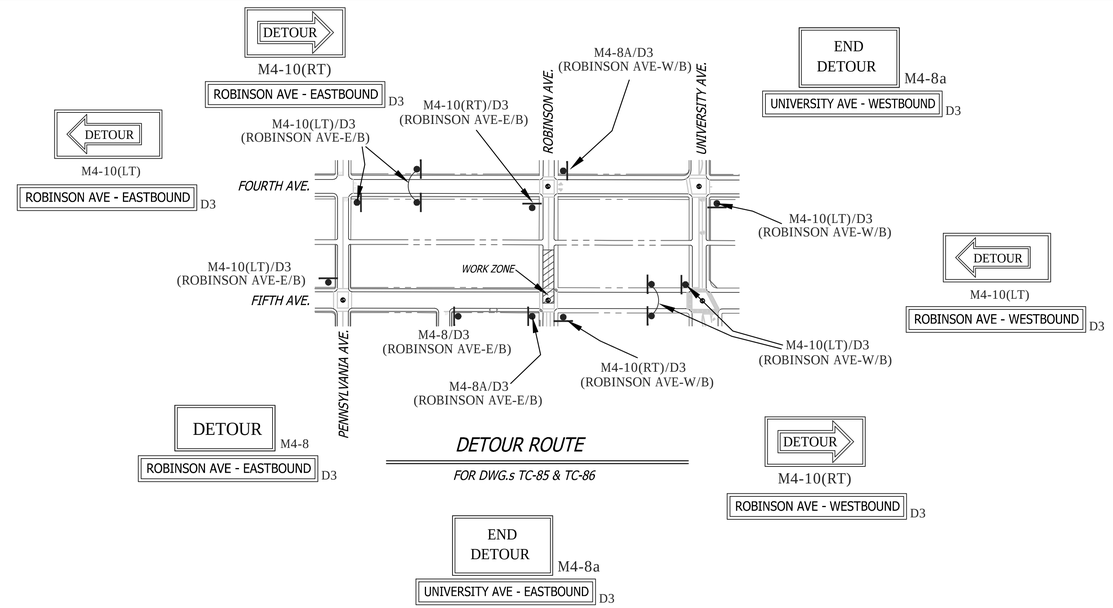
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T85-D





PHASE 49 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FOURTH AVENUE	30	N/A	N/A	200 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	SEE DWG.		200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

TC- 86

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

FIFTH AVENUE
AT ROBINSON AVENUE
PHASE 49

CITY OF SAN DIEGO, CALIFORNIA
SHEET 86 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T86-D

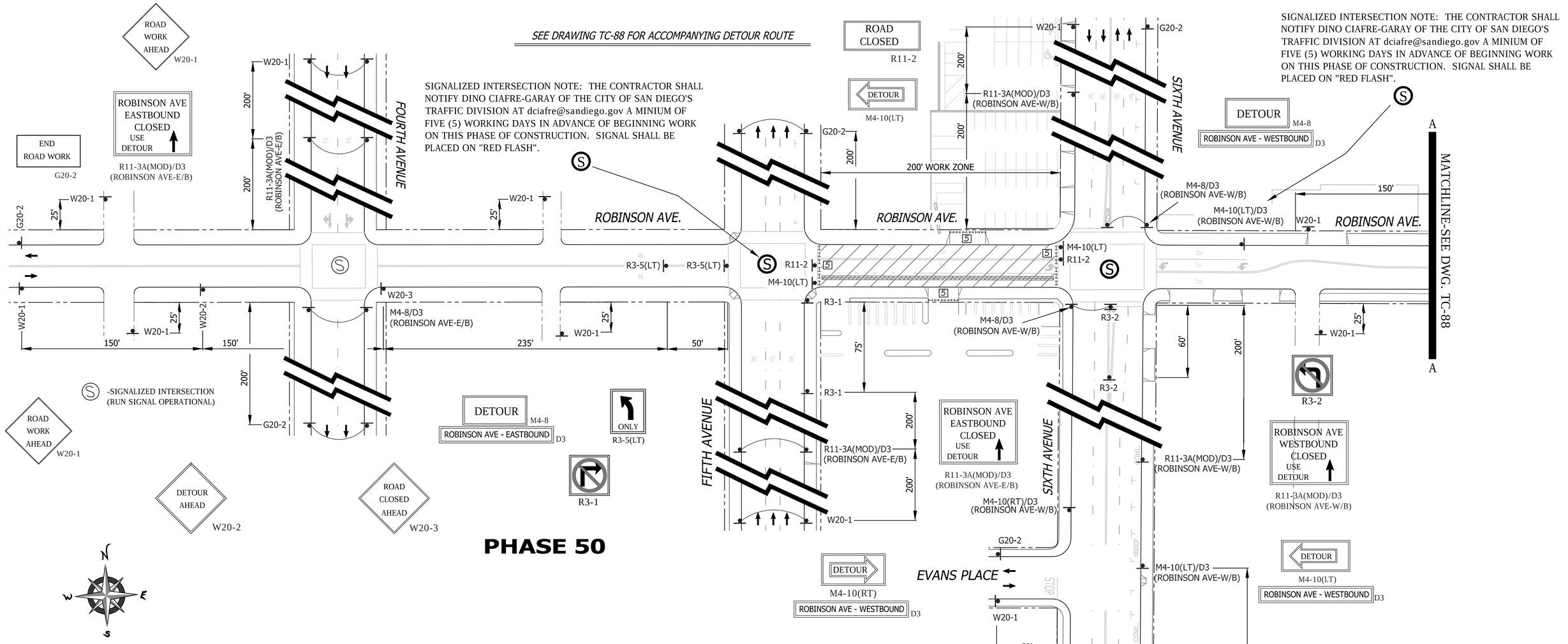
REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-1A | DATE:06/13/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 50

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 87

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
FIFTH AVENUE TO SIXTH AVENUE
PHASE 50

CITY OF SAN DIEGO, CALIFORNIA
SHEET 87 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

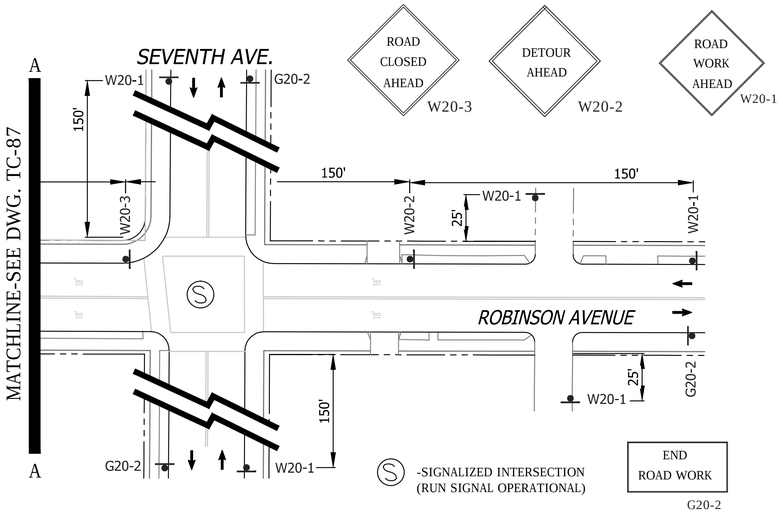
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T87-D

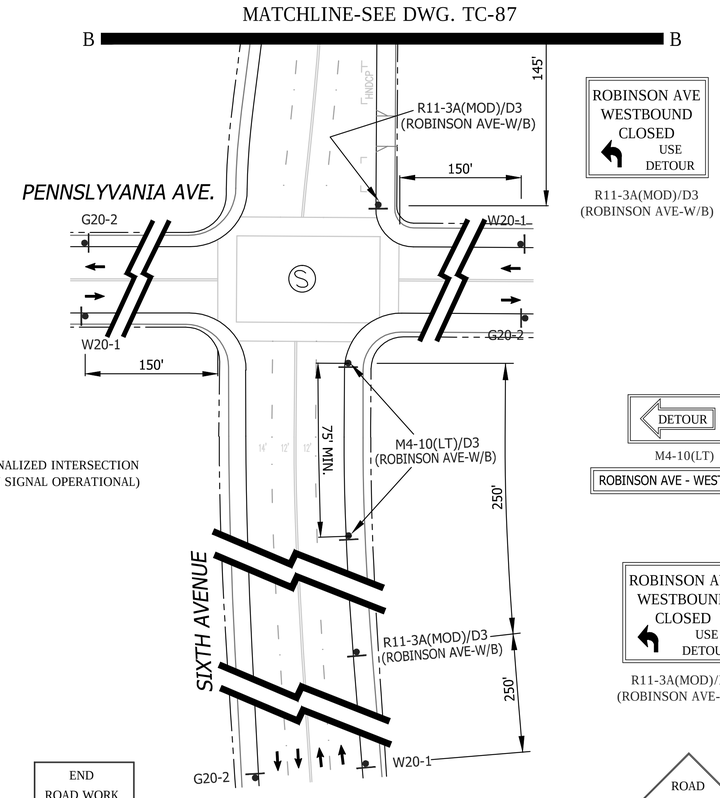
PHASE 50 (CONTINUED)



ROAD CLOSED AHEAD W20-3

DETOUR AHEAD W20-2

ROAD WORK AHEAD W20-1



ROBINSON AVE WESTBOUND CLOSED USE DETOUR

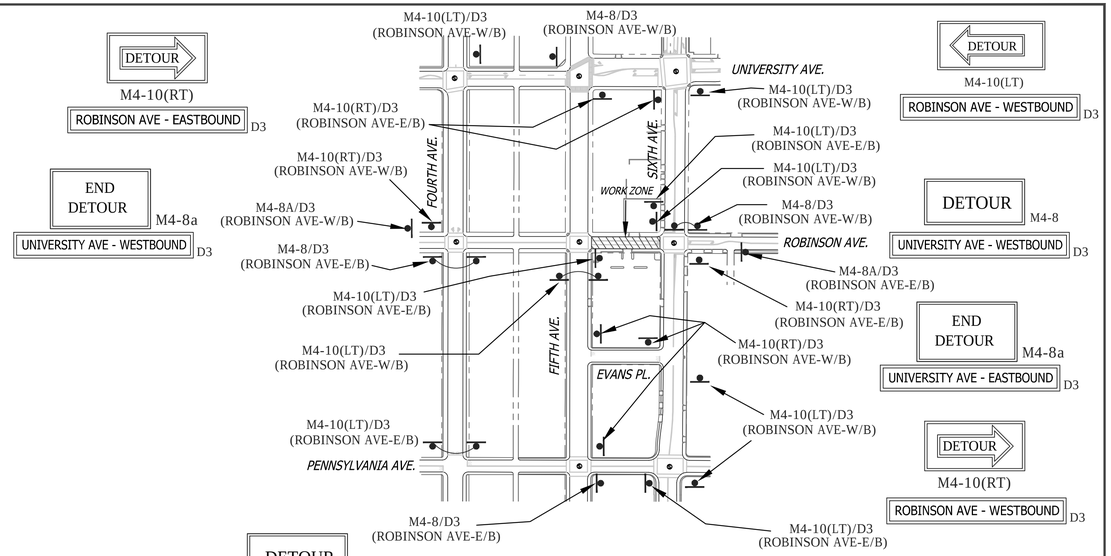
R11-3A(MOD)/D3
(ROBINSON AVE-W/B)

DETOUR
M4-10(LT)
ROBINSON AVE - WESTBOUND D3

ROBINSON AVE WESTBOUND CLOSED USE DETOUR

R11-3A(MOD)/D3
(ROBINSON AVE-W/B)

ROAD WORK AHEAD W20-1



DETOUR ROUTE

FOR DWG.s TC-87 & TC-88

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601D-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 88

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
FIFTH AVENUE TO SIXTH AVENUE
PHASE 50

CITY OF SAN DIEGO, CALIFORNIA
SHEET 88 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T88-D

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

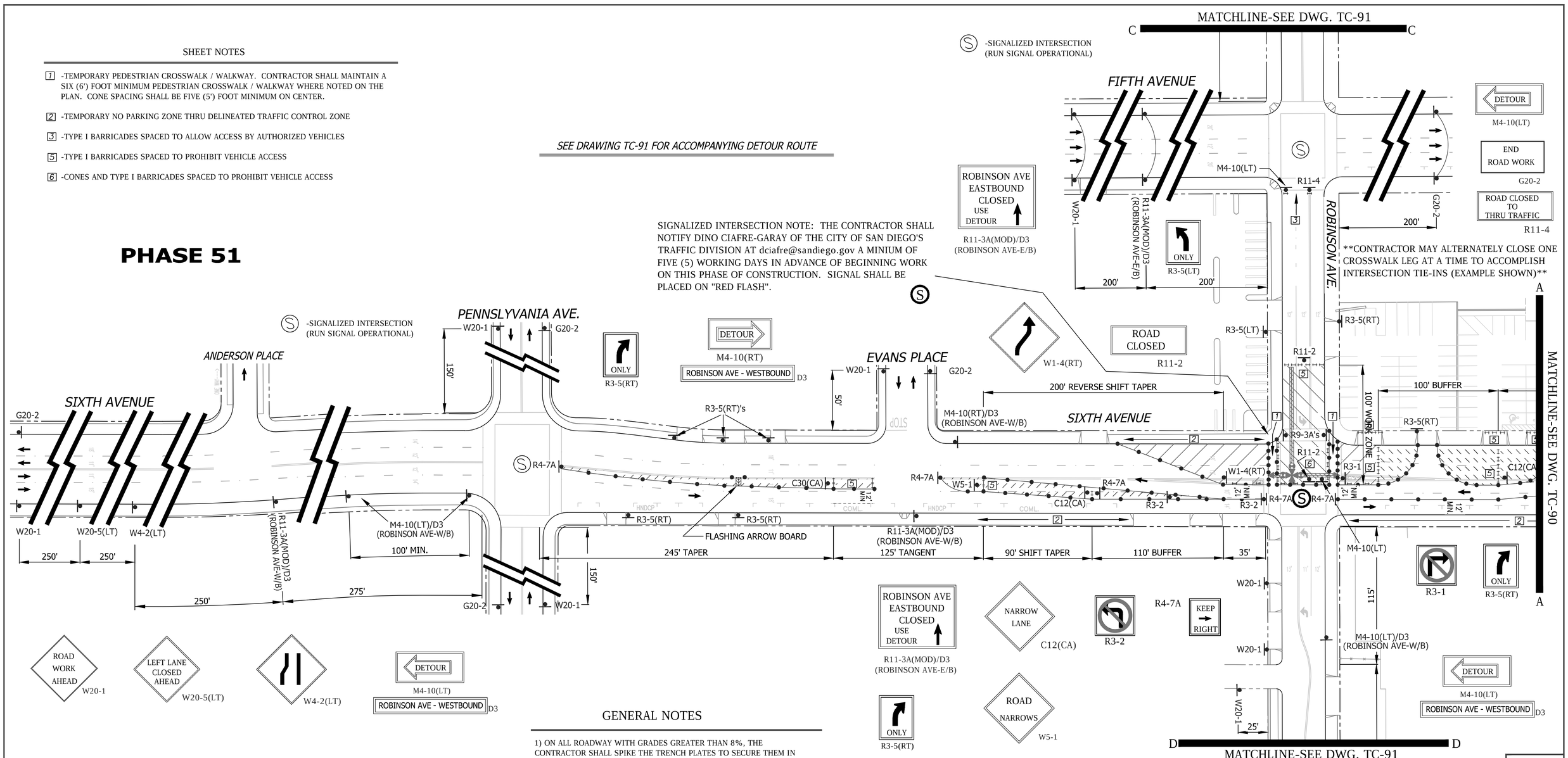
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SEE DRAWING TC-91 FOR ACCOMPANYING DETOUR ROUTE

PHASE 51

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 89

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 51

CITY OF SAN DIEGO, CALIFORNIA
SHEET 89 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

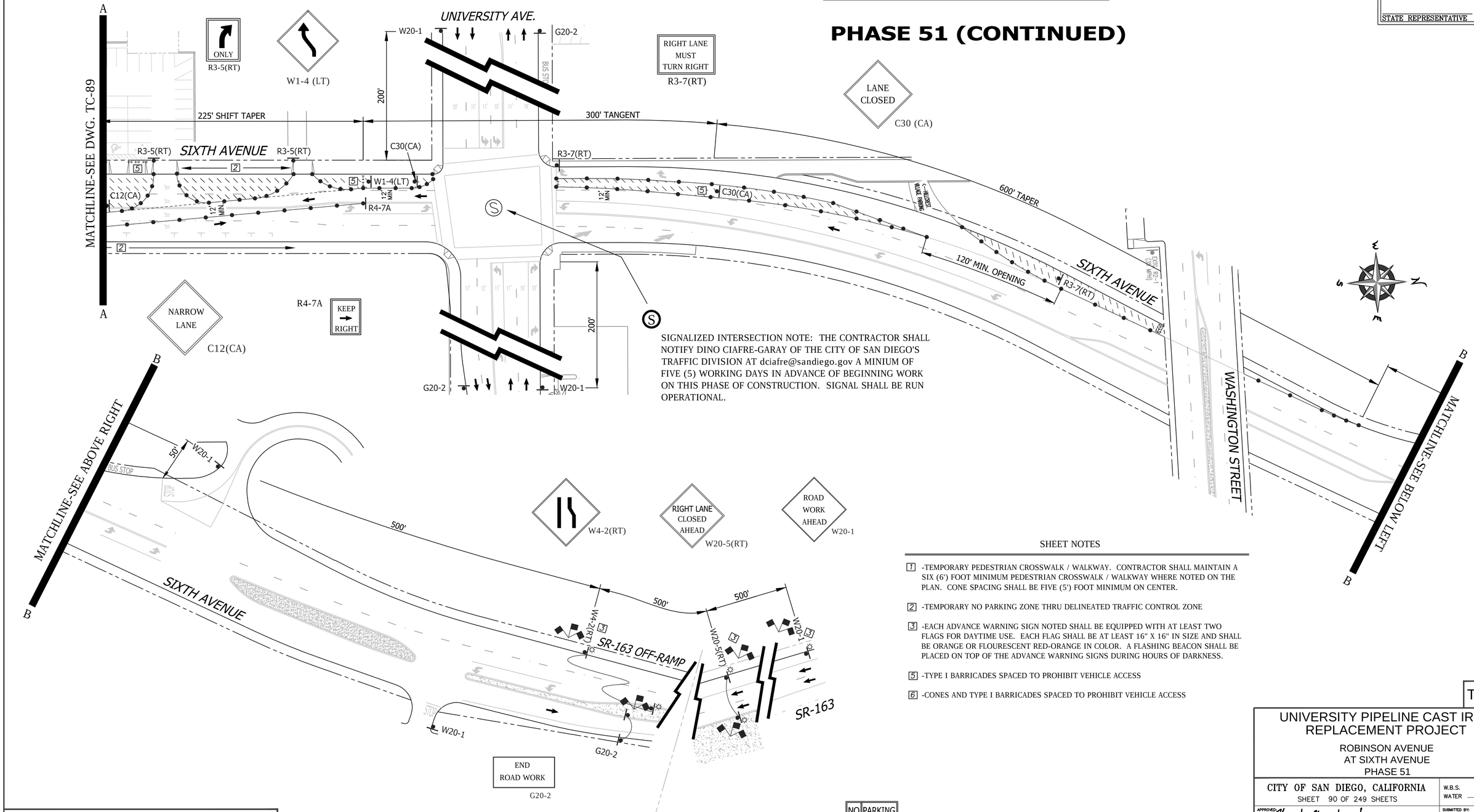
36656-T89-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-91 FOR ACCOMPANYING DETOUR ROUTE

PHASE 51 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SR-163 OFF RAMP	50	SEE DWG.		500 FT.	25 FT
UNIVERSITY AVE.	30	N/A	N/A	200 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 90

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 51

CITY OF SAN DIEGO, CALIFORNIA
SHEET 90 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

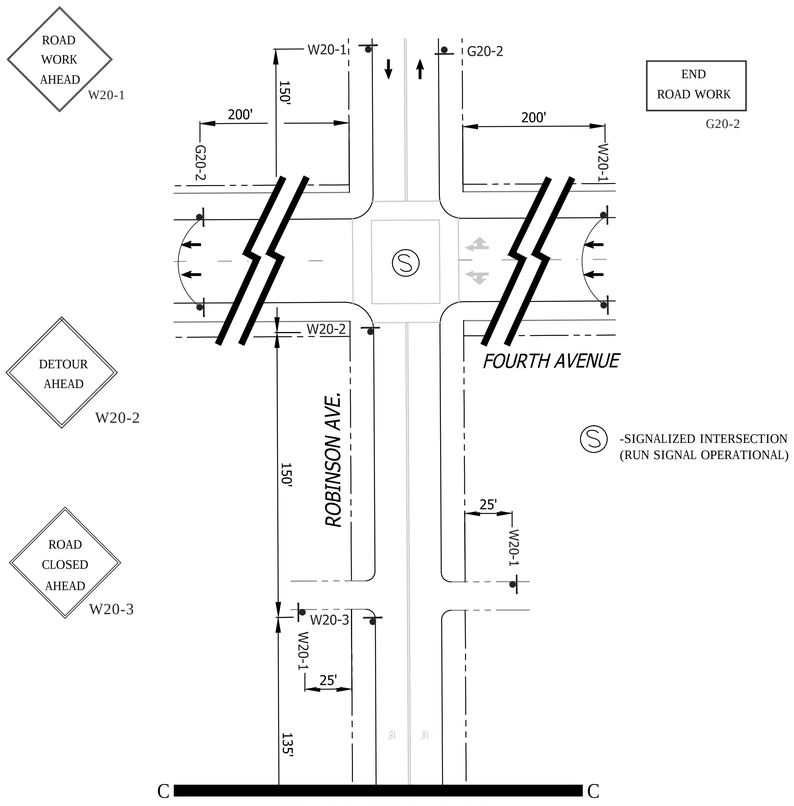
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

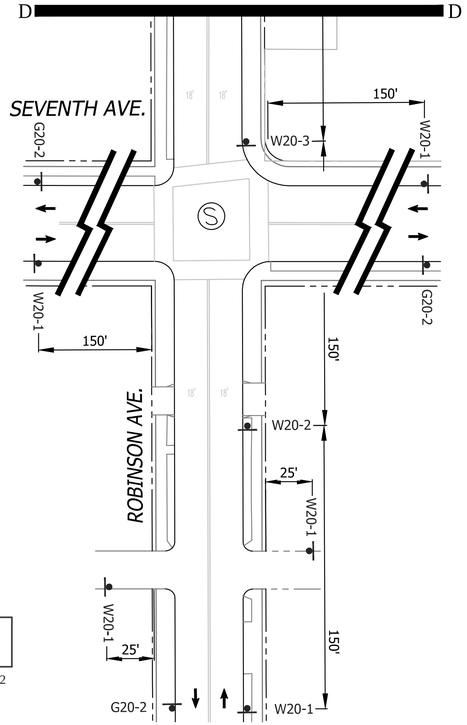
36656-T90-D



END ROAD WORK
G20-2

-SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

PHASE 51 (CONTINUED)



END ROAD WORK
G20-2

-SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

ROAD CLOSED AHEAD
W20-3

DETOUR AHEAD
W20-2

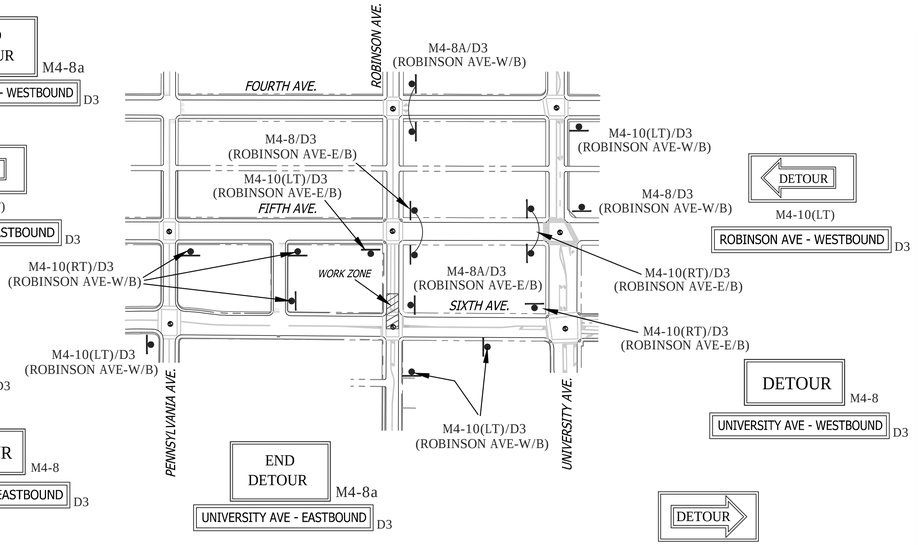
ROAD WORK AHEAD
W20-1

END DETOUR
M4-8a
UNIVERSITY AVE - WESTBOUND D3

DETOUR
M4-10(LT)
ROBINSON AVE - EASTBOUND D3

DETOUR
M4-10(RT)
ROBINSON AVE - WESTBOUND D3

DETOUR
M4-8
ROBINSON AVE - EASTBOUND D3



DETOUR ROUTE

FOR DWG.s TC-89 THRU TC-91

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 91

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 51

CITY OF SAN DIEGO, CALIFORNIA
SHEET 91 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T91-D

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

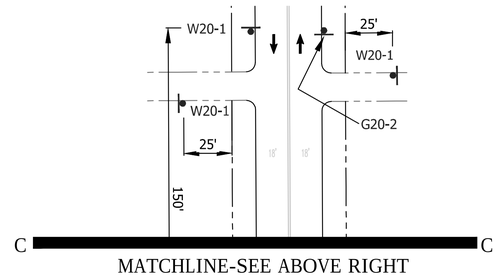
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

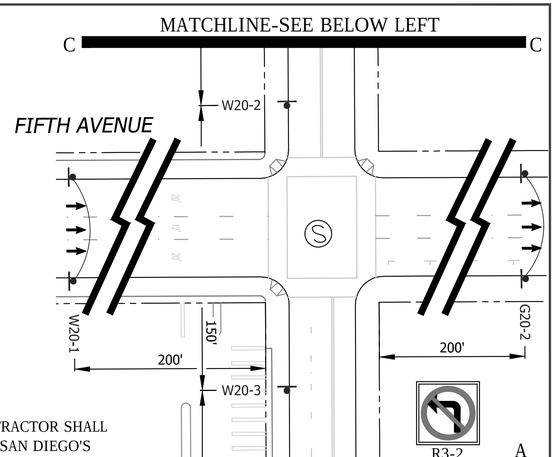
5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

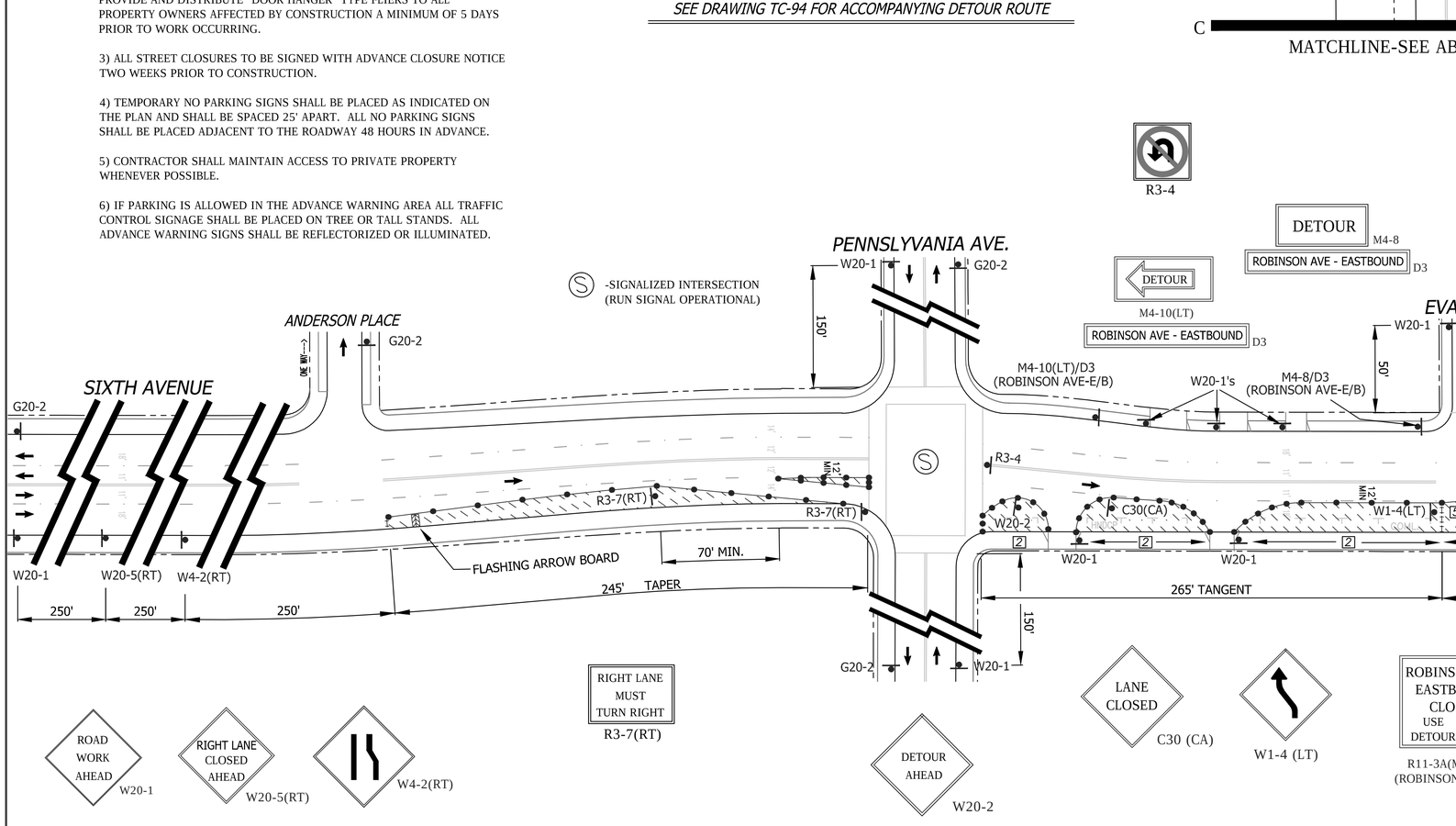
6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PHASE 52

SEE DRAWING TC-94 FOR ACCOMPANYING DETOUR ROUTE







SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

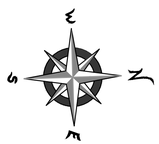
[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
FIFTH AVENUE	30	N/A	N/A	200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE:06/13/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 92 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T92-D

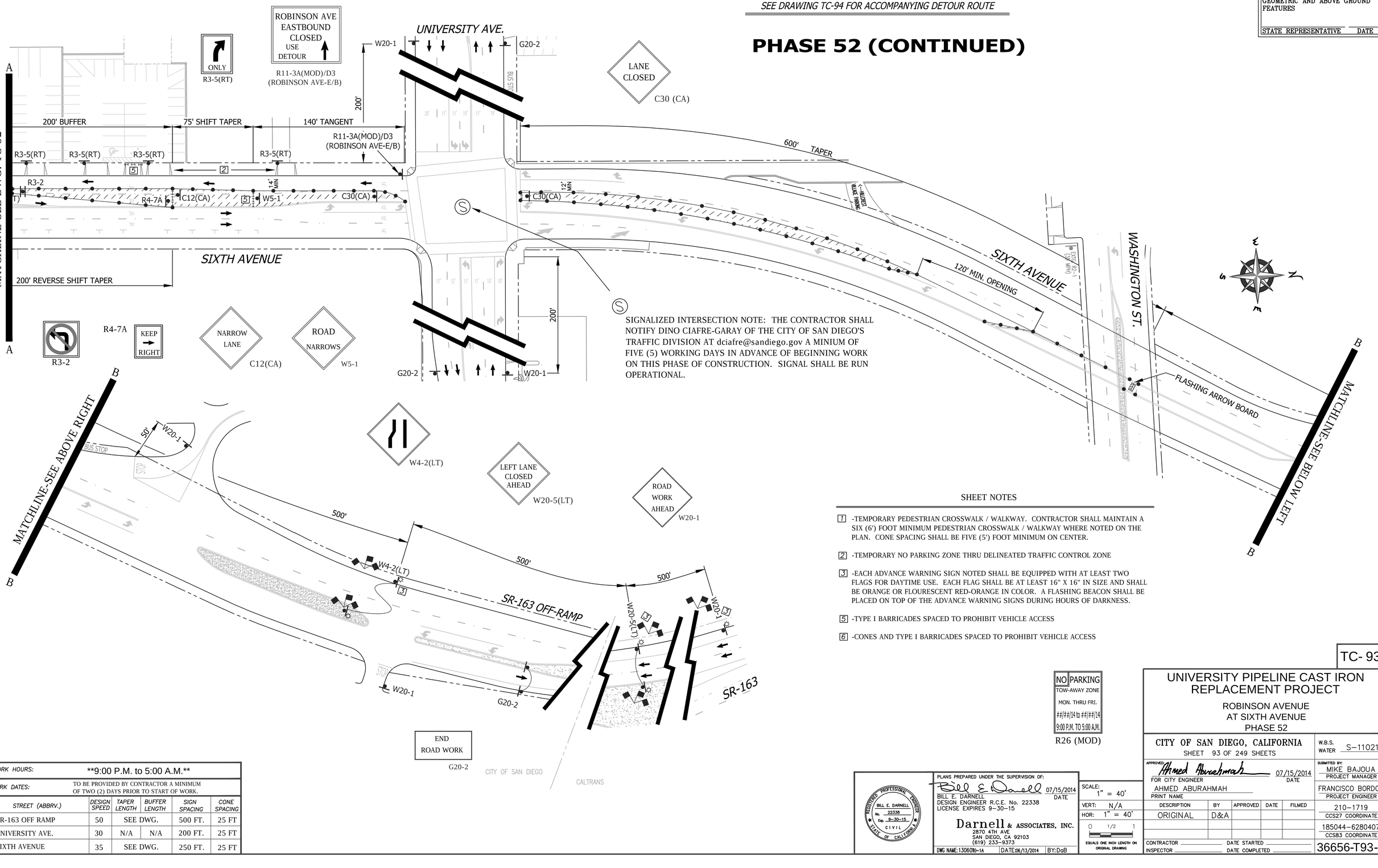
TC- 92

PERMIT NUMBER 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-94 FOR ACCOMPANYING DETOUR ROUTE

PHASE 52 (CONTINUED)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 93

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SR-163 OFF RAMP	50	SEE DWG.		500 FT.	25 FT
UNIVERSITY AVE.	30	N/A	N/A	200 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 93 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

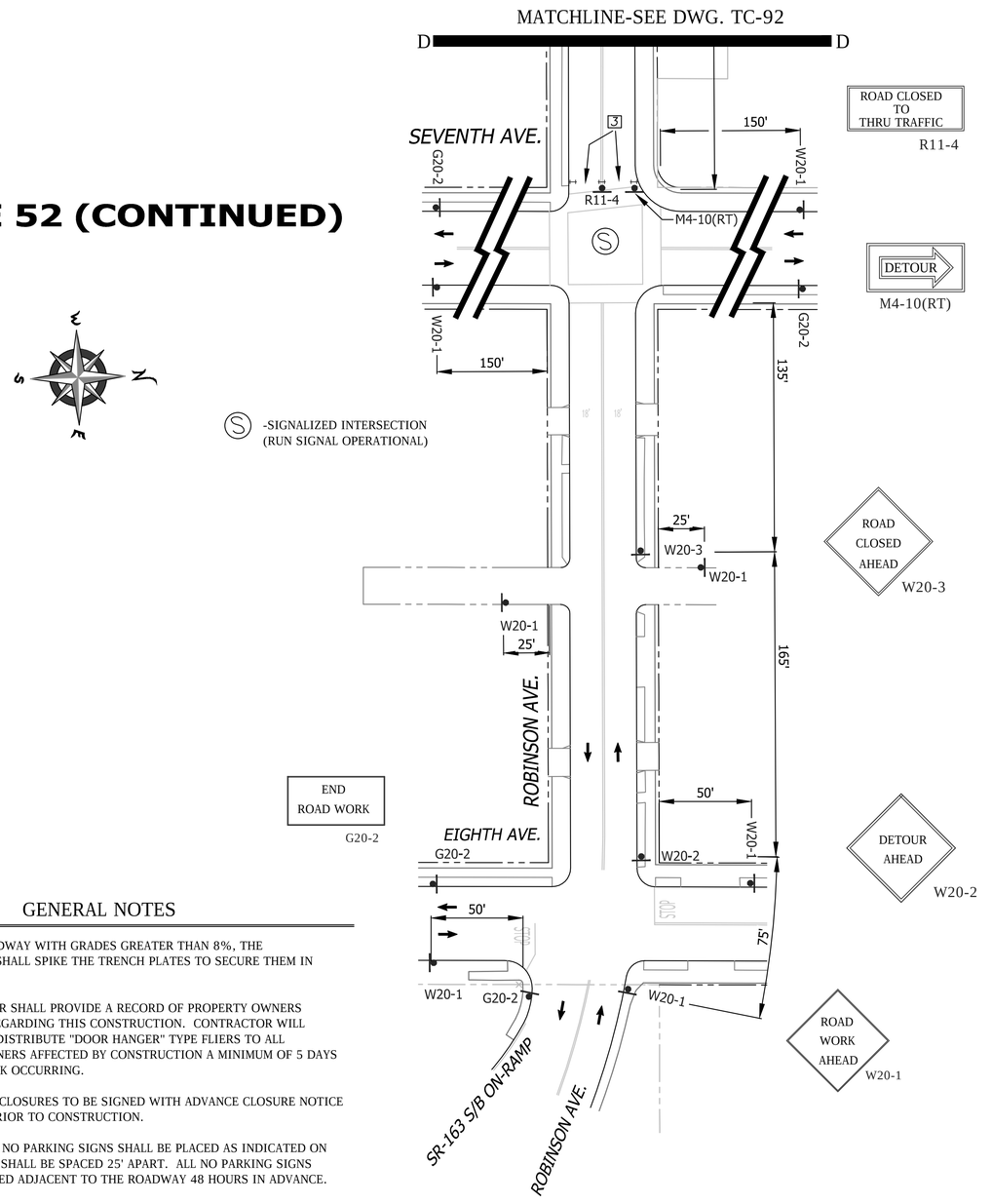
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

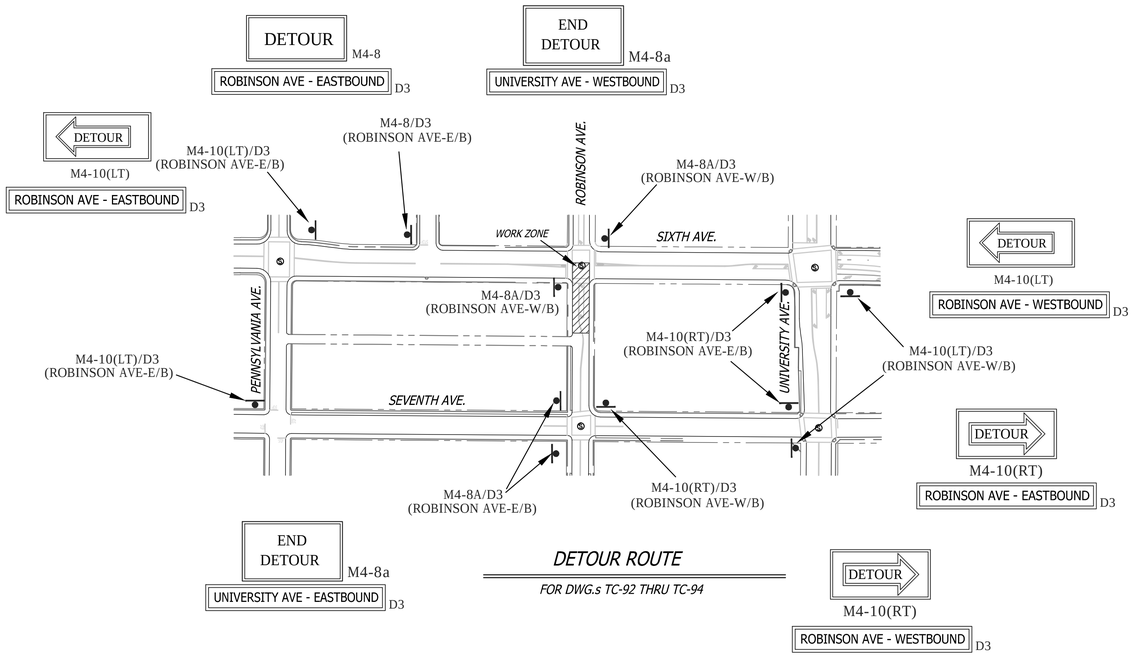
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T93-D

PHASE 52 (CONTINUED)





GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
9:00 P.M. TO 5:00 A.M.
R26 (MOD)

TC- 94

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SIXTH AVENUE
PHASE 52

CITY OF SAN DIEGO, CALIFORNIA
SHEET 94 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T94-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600D-1A | DATE: 06/12/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 53

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

ROBINSON AVE EASTBOUND CLOSED USE DETOUR — R11-3A(MOD)/D3 (ROBINSON AVE-E/B)

SIDEWALK CLOSED CROSS HERE — R9-11A(RT)

SIDEWALK CLOSED — R9-9

ROAD CLOSED — R11-2

WORK ZONE & TEMPORARY NO PARKING ZONE

SIDEWALK CLOSED CROSS HERE — R9-11A(LT)

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. — R26 (MOD)

MATCHLINE-SEE BELOW LEFT

MATCHLINE-SEE ABOVE RIGHT

ROBINSON AVE. — SIXTH AVENUE — FIFTH AVENUE — SEVENTH AVE. — EVANS PLACE — PENNSLYVANIA AVE. — EIGHTH AVE.

ALLEY CLOSED — R11-2(ALLEY)

ALLEY CLOSED TO THRU TRAFFIC — R11-4(ALLEY)

ROAD WORK AHEAD — W20-1

DETOUR AHEAD — W20-2

ROAD CLOSED AHEAD — W20-3

RIGHT LANE MUST TURN RIGHT — R3-7(RT)

DETOUR — M4-8 — ROBINSON AVE - WESTBOUND — D3

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

END DETOUR — M4-8a — UNIVERSITY AVE - WESTBOUND — D3

DETOUR — M4-8 — ROBINSON AVE - EASTBOUND — D3

DETOUR — M4-10(LT) — ROBINSON AVE - EASTBOUND — D3

DETOUR — M4-10(LT) — ROBINSON AVE - WESTBOUND — D3

DETOUR — M4-10(RT) — ROBINSON AVE - EASTBOUND — D3

END DETOUR — M4-8a — UNIVERSITY AVE - EASTBOUND — D3

DETOUR — M4-10(RT) — ROBINSON AVE - WESTBOUND — D3

DETOUR ROUTE — FOR DWG.s TC-95

M4-10(LT)/D3 (ROBINSON AVE-W/B); M4-10(LT)/D3 (ROBINSON AVE-E/B); M4-10(RT)/D3 (ROBINSON AVE-W/B); M4-10(RT)/D3 (ROBINSON AVE-E/B); M4-8A/D3 (ROBINSON AVE-W/B); M4-8A/D3 (ROBINSON AVE-E/B); M4-8/D3 (ROBINSON AVE-E/B); M4-10(LT)/D3 (ROBINSON AVE-E/B); M4-10(RT)/D3 (ROBINSON AVE-W/B); M4-10(LT)/D3 (ROBINSON AVE-E/B); M4-10(LT)/D3 (ROBINSON AVE-E/B)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

TC- 95

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
SIXTH AVENUE TO SEVENTH AVENUE
PHASE 53

CITY OF SAN DIEGO, CALIFORNIA
SHEET 95 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER — 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T95-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

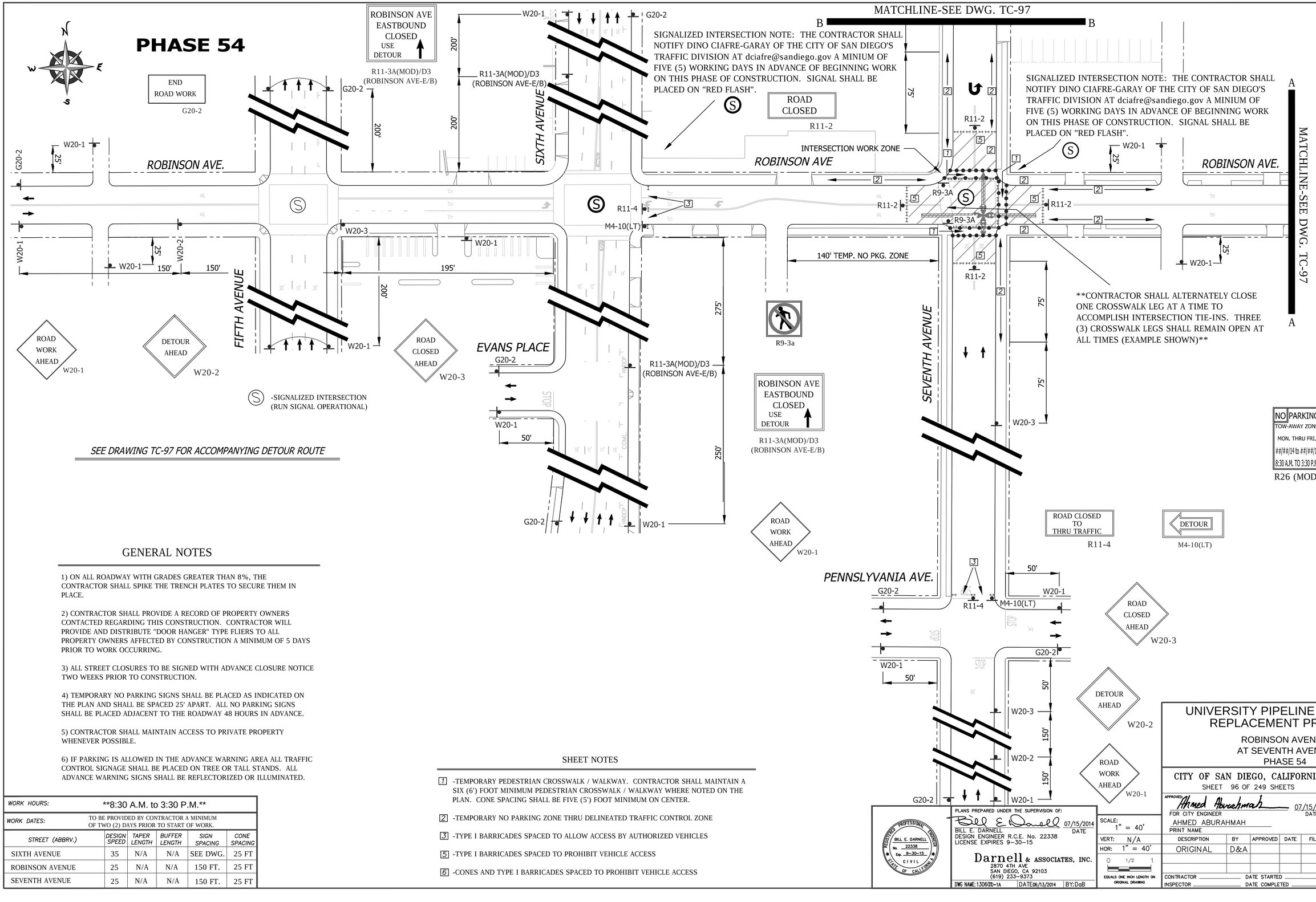
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060B-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 54



SEE DRAWING TC-97 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE	35	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D1-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 96

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SEVENTH AVENUE
PHASE 54

CITY OF SAN DIEGO, CALIFORNIA
SHEET 96 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

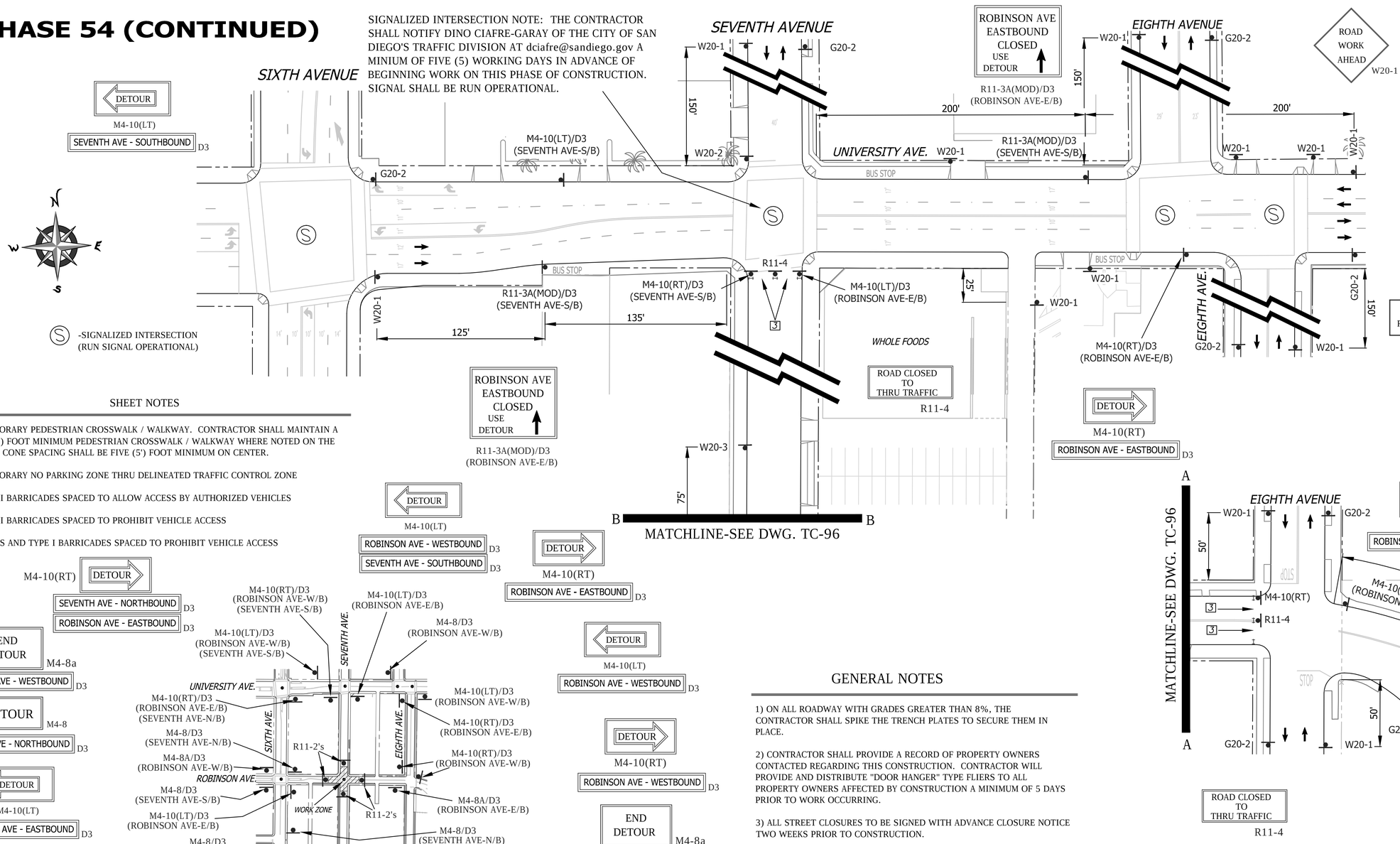
36656-T96-D

PHASE 54 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

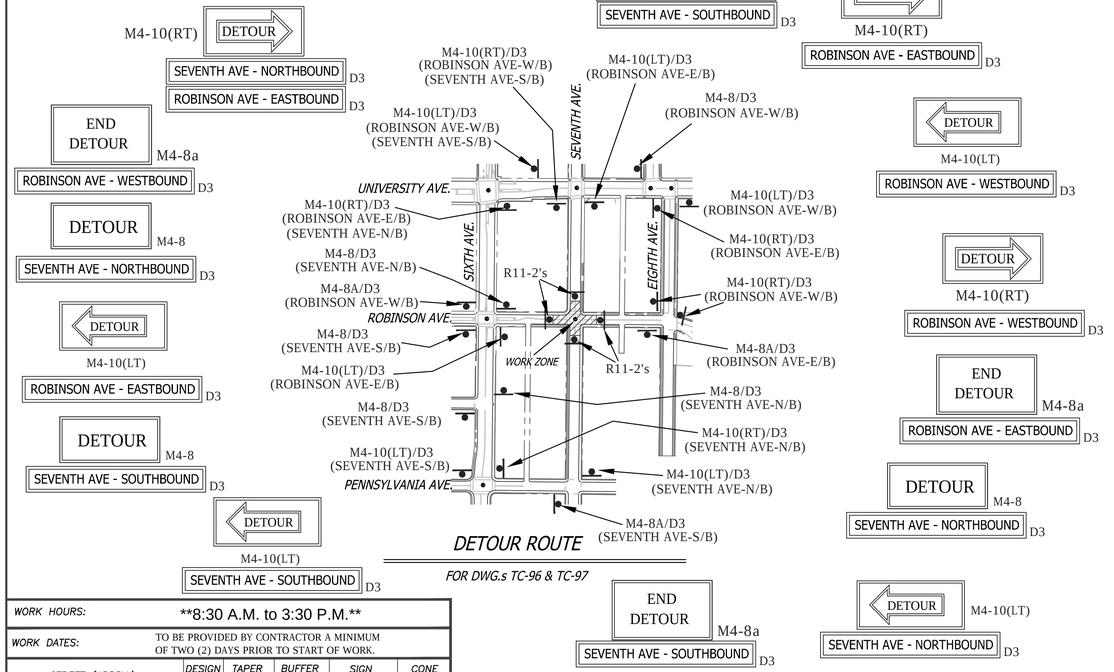
[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



DETOUR ROUTE

FOR DWG.s TC-96 & TC-97

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVENUE	30	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

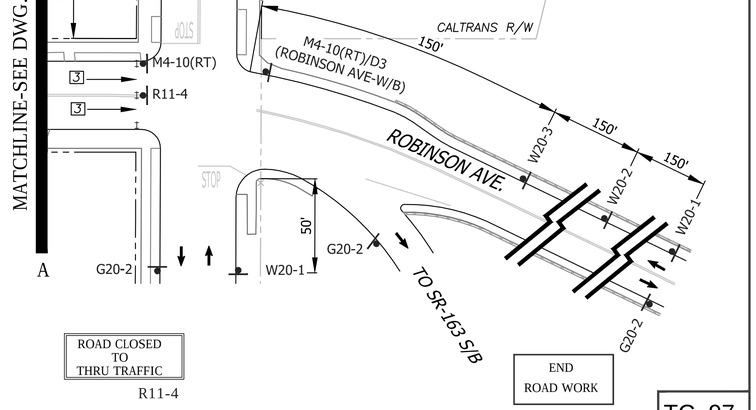
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



TC- 97

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT SEVENTH AVENUE
PHASE 54

CITY OF SAN DIEGO, CALIFORNIA
SHEET 97 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CCS27 COORDINATE
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T97-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130607D-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

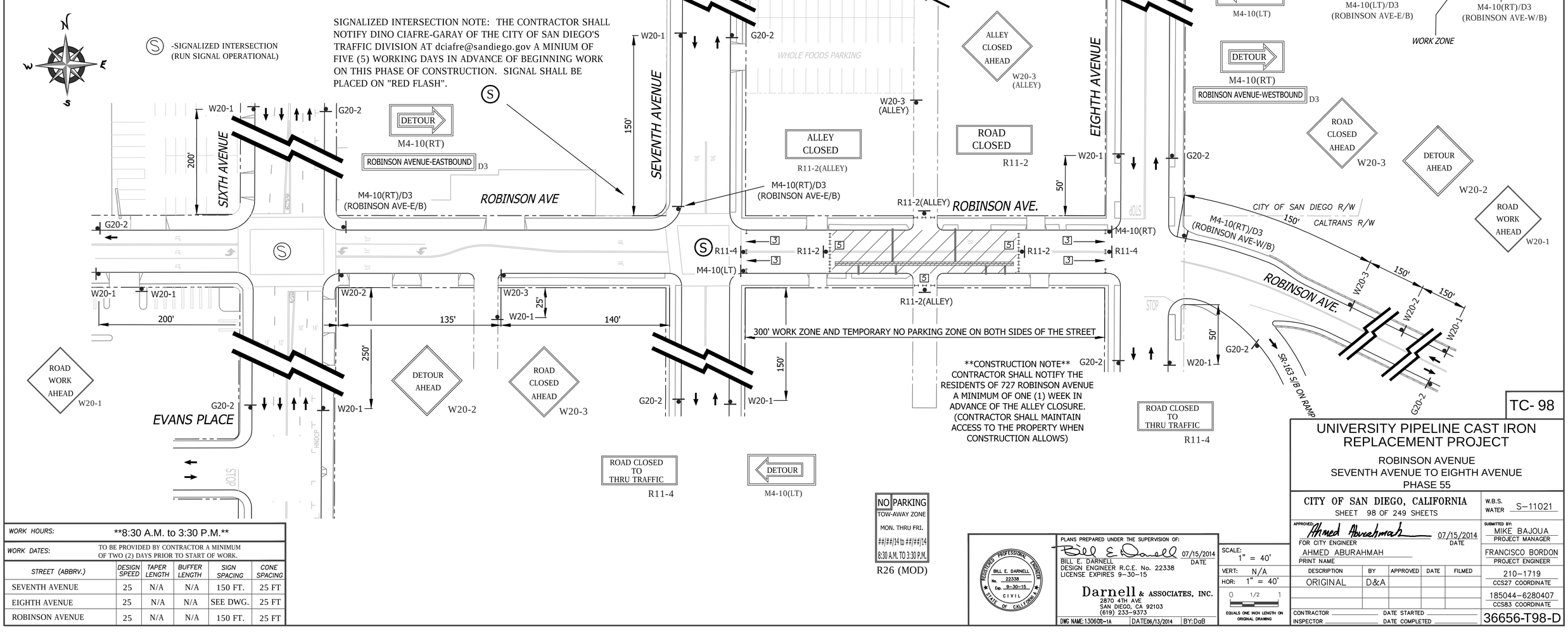
[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 55

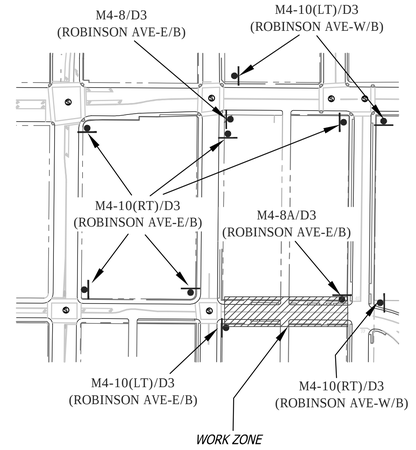
Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



DETOUR ROUTE

FOR DWG. TC-98



WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

PERMIT NUMBER: 11-14-NUI-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 98

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
SEVENTH AVENUE TO EIGHTH AVENUE
PHASE 55

CITY OF SAN DIEGO, CALIFORNIA
SHEET 98 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

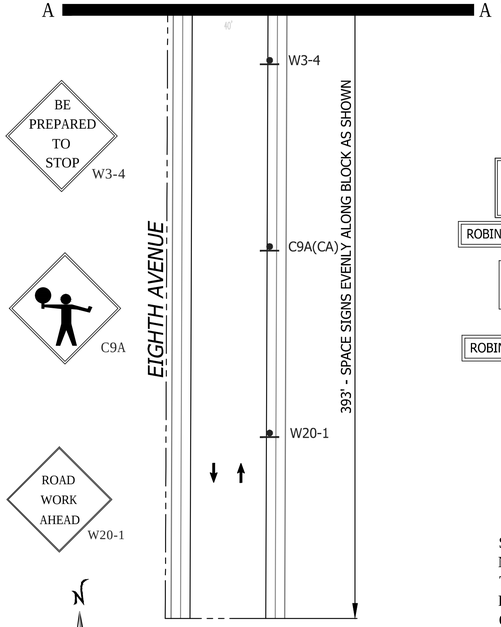
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

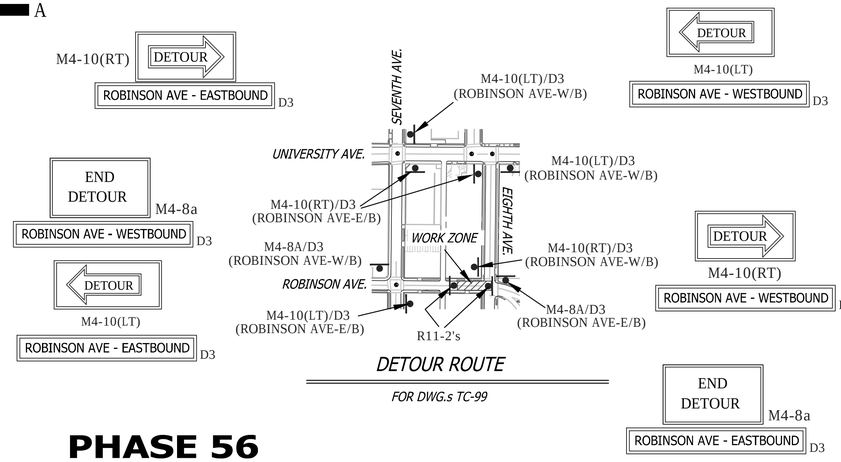
36656-T98-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

MATCHLINE-SEE BELOW RIGHT



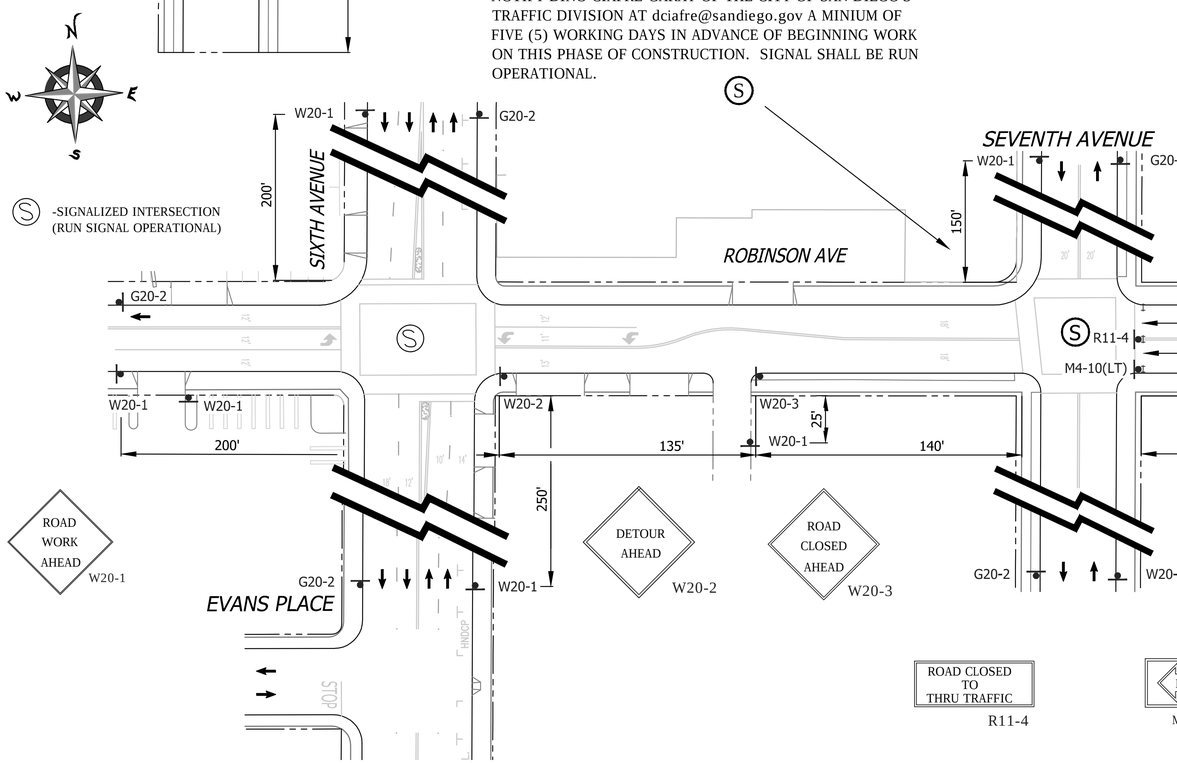


PHASE 56

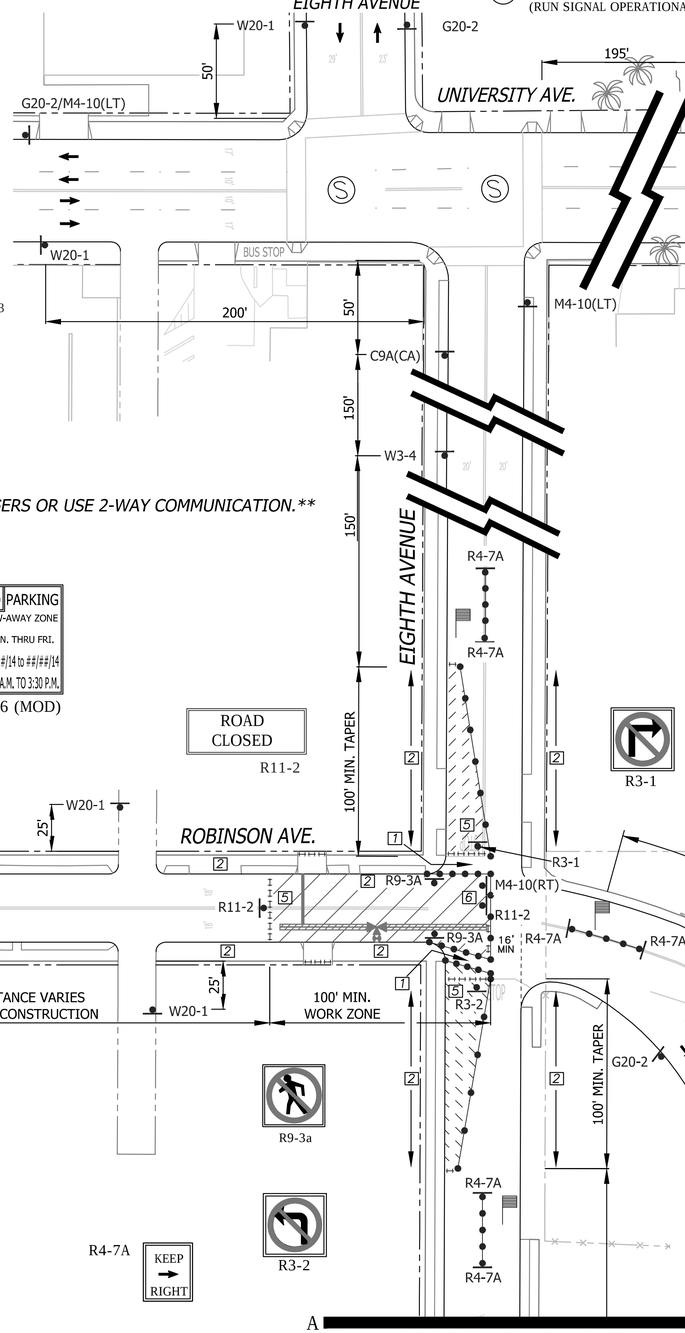
EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



R26 (MOD)



A MATCHLINE-SEE ABOVE LEFT A

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130600-1A | DATE:06/13/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 99

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT EIGHTH AVENUE
PHASE 56

CITY OF SAN DIEGO, CALIFORNIA
SHEET 99 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

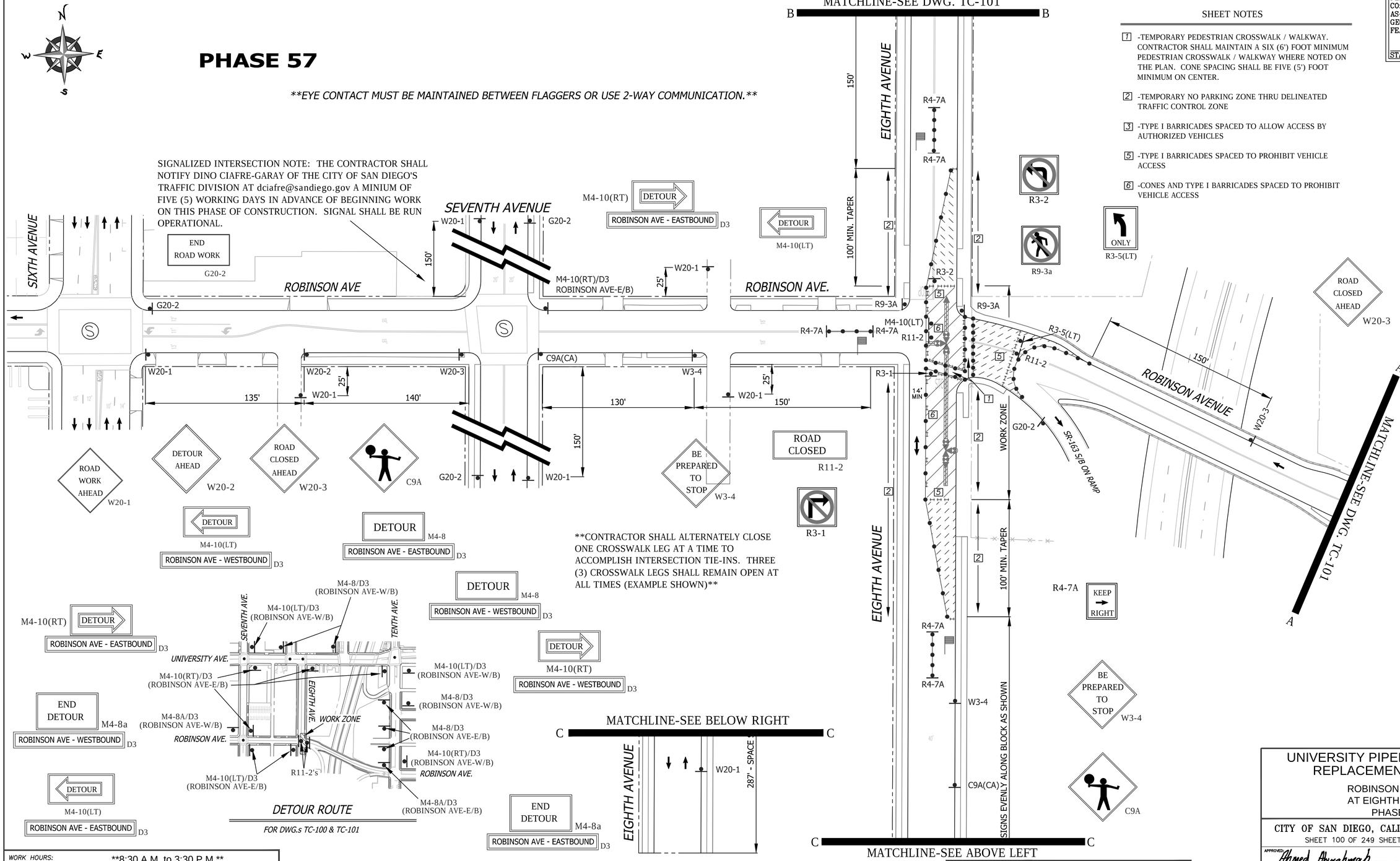
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T99-D

PHASE 57

EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.



CONTRACTOR SHALL ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS. THREE (3) CROSSWALK LEGS SHALL REMAIN OPEN AT ALL TIMES (EXAMPLE SHOWN)

SHEET NOTES

1. -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-100

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT EIGHTH AVENUE
PHASE 57

CITY OF SAN DIEGO, CALIFORNIA
SHEET 100 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

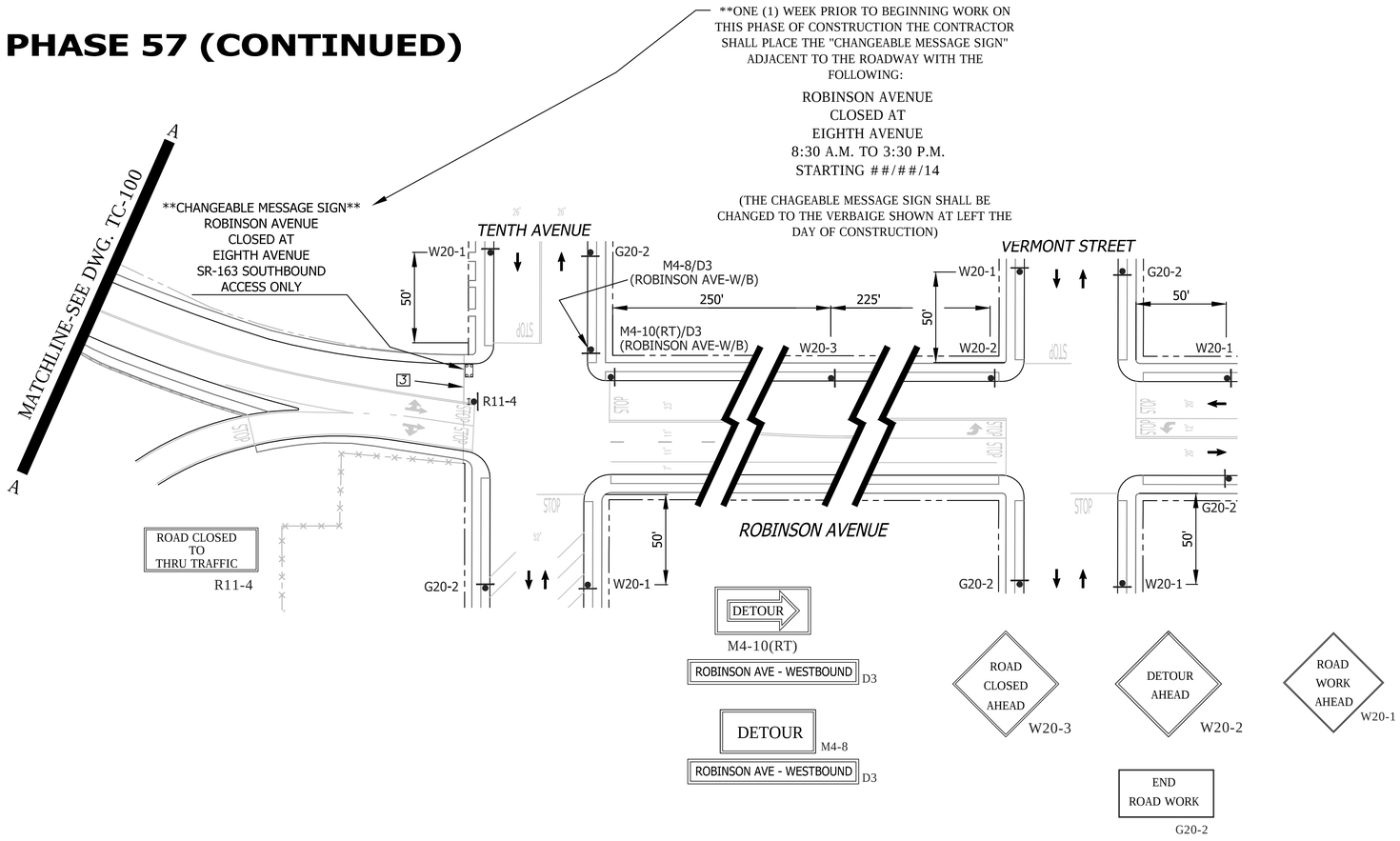
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

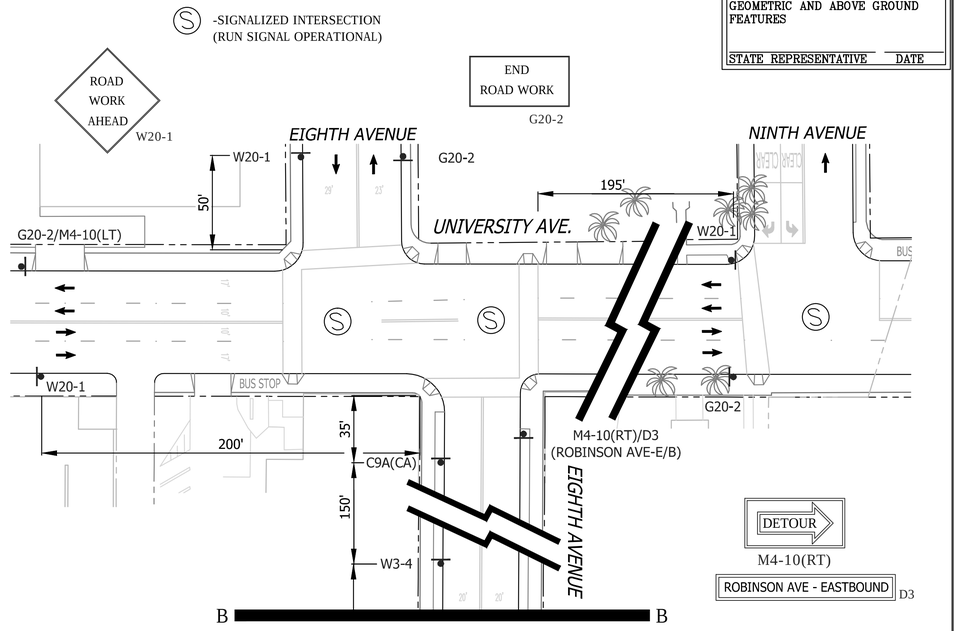
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T100-D

PHASE 57 (CONTINUED)





SEE DRAWING TC-100 FOR ACCOMPANYING DETOUR ROUTE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVENUE	30	N/A	N/A	SEE DWG.	25 FT
10th AVE./VERMONT ST.	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th AVE	35	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PERMIT NUMBER: 11-14-NUI-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC- 101

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT EIGHTH AVENUE
PHASE 57

CITY OF SAN DIEGO, CALIFORNIA
SHEET 101 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

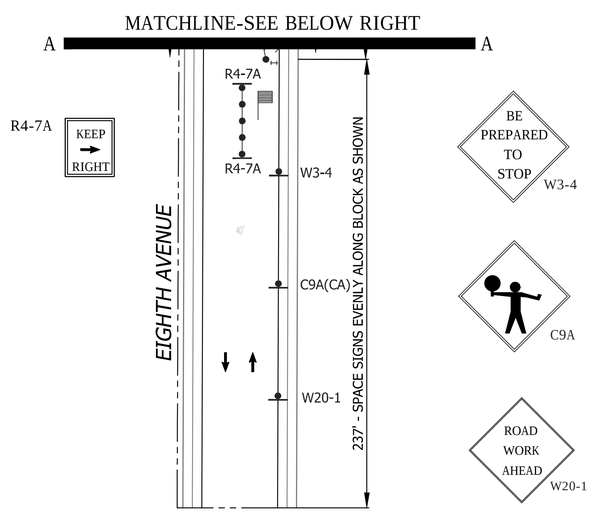
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T101-D

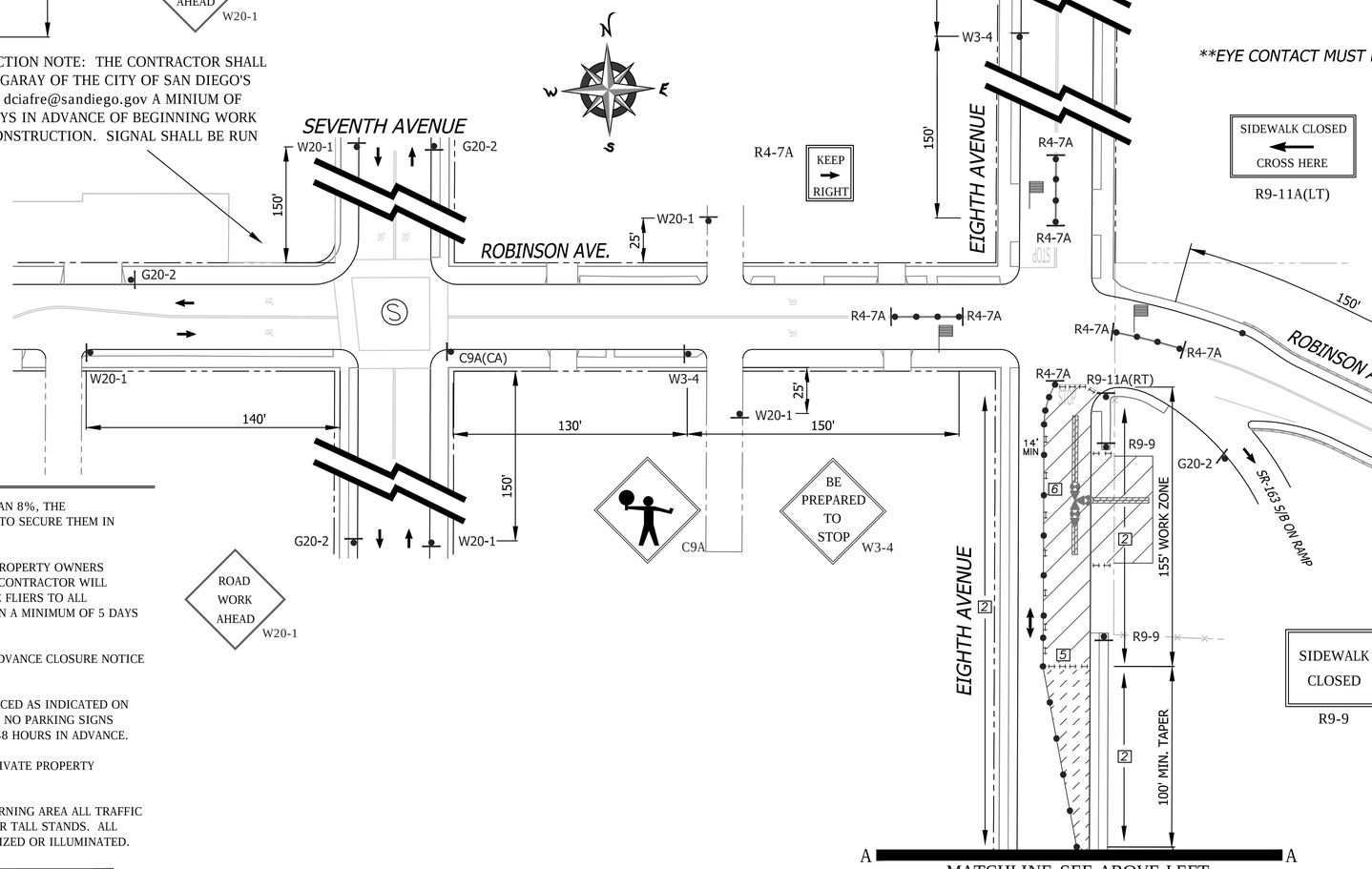


SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

END ROAD WORK
G20-2

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PHASE 58



SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306010-1A | DATE: 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-102

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

EIGHTH AVENUE
SOUTH OF ROBINSON AVENUE
PHASE 58

CITY OF SAN DIEGO, CALIFORNIA
SHEET 102 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

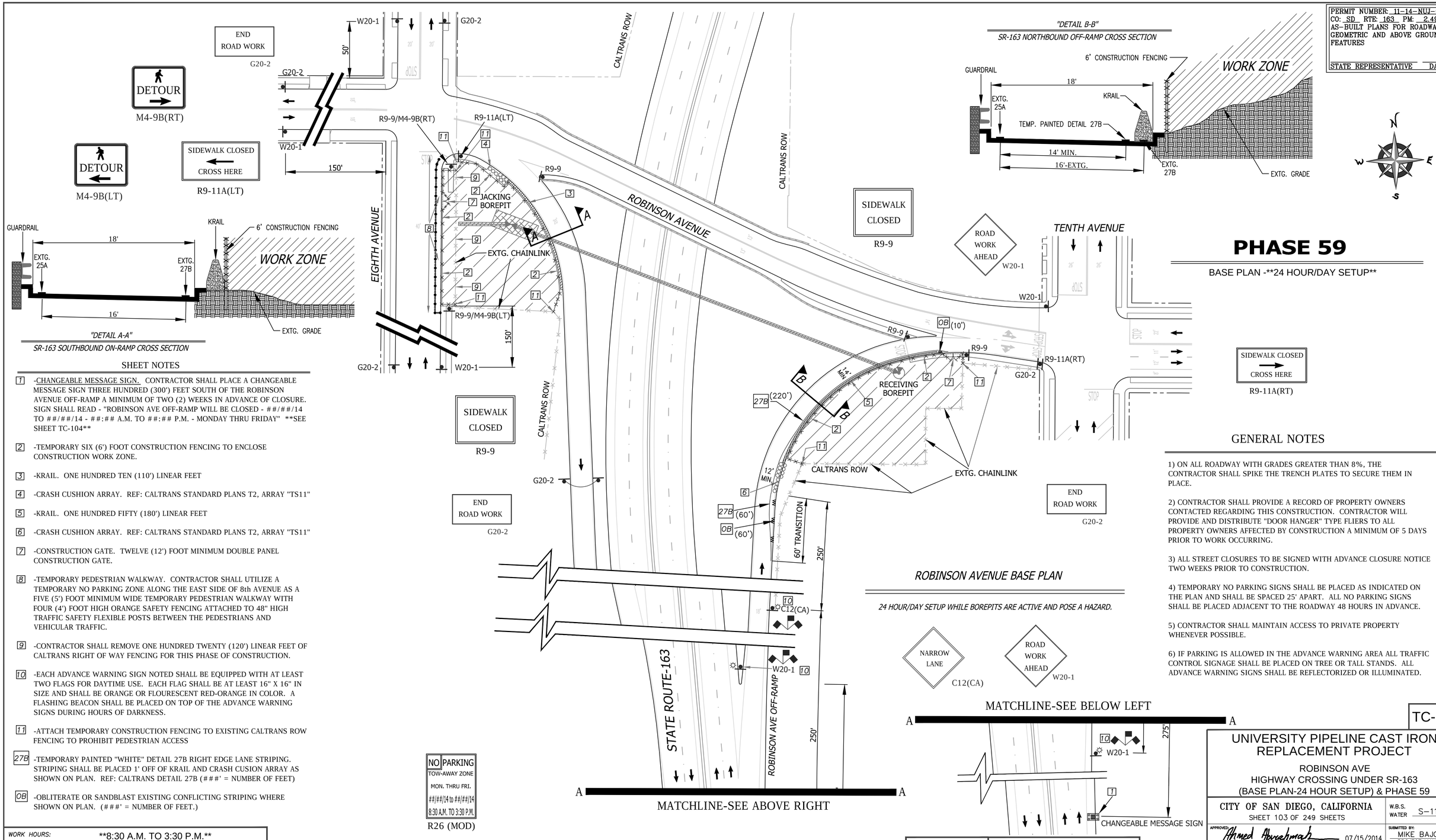
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T102-D

PERMIT NUMBER: 11-14-NUJ-0042	
CO: SD	RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES	
STATE REPRESENTATIVE	DATE



PHASE 59

BASE PLAN -**24 HOUR/DAY SETUP**

SHEET NOTES

7 -CHANGEABLE MESSAGE SIGN. CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN THREE HUNDRED (300') FEET SOUTH OF THE ROBINSON AVENUE OFF-RAMP A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CLOSURE. SIGN SHALL READ - "ROBINSON AVE OFF-RAMP WILL BE CLOSED - ##/##/14 TO ##/##/14 - ##:## A.M. TO ##:## P.M. - MONDAY THRU FRIDAY" **SEE SHEET TC-104**

2 -TEMPORARY SIX (6') FOOT CONSTRUCTION FENCING TO ENCLOSE CONSTRUCTION WORK ZONE.

3 -KRAIL. ONE HUNDRED TEN (110') LINEAR FEET

4 -CRASH CUSHION ARRAY. REF: CALTRANS STANDARD PLANS T2, ARRAY "TS11"

5 -KRAIL. ONE HUNDRED FIFTY (180') LINEAR FEET

6 -CRASH CUSHION ARRAY. REF: CALTRANS STANDARD PLANS T2, ARRAY "TS11"

7 -CONSTRUCTION GATE. TWELVE (12') FOOT MINIMUM DOUBLE PANEL CONSTRUCTION GATE.

8 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

9 -CONTRACTOR SHALL REMOVE ONE HUNDRED TWENTY (120') LINEAR FEET OF CALTRANS RIGHT OF WAY FENCING FOR THIS PHASE OF CONSTRUCTION.

10 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

11 -ATTACH TEMPORARY CONSTRUCTION FENCING TO EXISTING CALTRANS ROW FENCING TO PROHIBIT PEDESTRIAN ACCESS

27B -TEMPORARY PAINTED "WHITE" DETAIL 27B RIGHT EDGE LANE STRIPING. STRIPING SHALL BE PLACED 1' OFF OF KRAIL AND CRASH CUSION ARRAY AS SHOWN ON PLAN. REF: CALTRANS DETAIL 27B (###' = NUMBER OF FEET)

OB -OBLITERATE OR SANDBLAST EXISTING CONFLICTING STRIPING WHERE SHOWN ON PLAN. (###' = NUMBER OF FEET.)

WORK HOURS:	**8:30 A.M. TO 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE	25	N/A	N/A	150 FT.	25 FT
8th AVENUE	25	N/A	N/A	150 FT.	25 FT
SR-163 OFF-RAMP	50	N/A	N/A	500 FT.	25 FT

ROBINSON AVENUE BASE PLAN

24 HOUR/DAY SETUP WHILE BOREPITS ARE ACTIVE AND POSE A HAZARD.

NARROW LANE C12(CA)

ROAD WORK AHEAD W20-1

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC-103

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
HIGHWAY CROSSING UNDER SR-163
(BASE PLAN-24 HOUR SETUP) & PHASE 59

CITY OF SAN DIEGO, CALIFORNIA
SHEET 103 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T103-D

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:13060D-1A | DATE06/13/2014 | BY:DaB

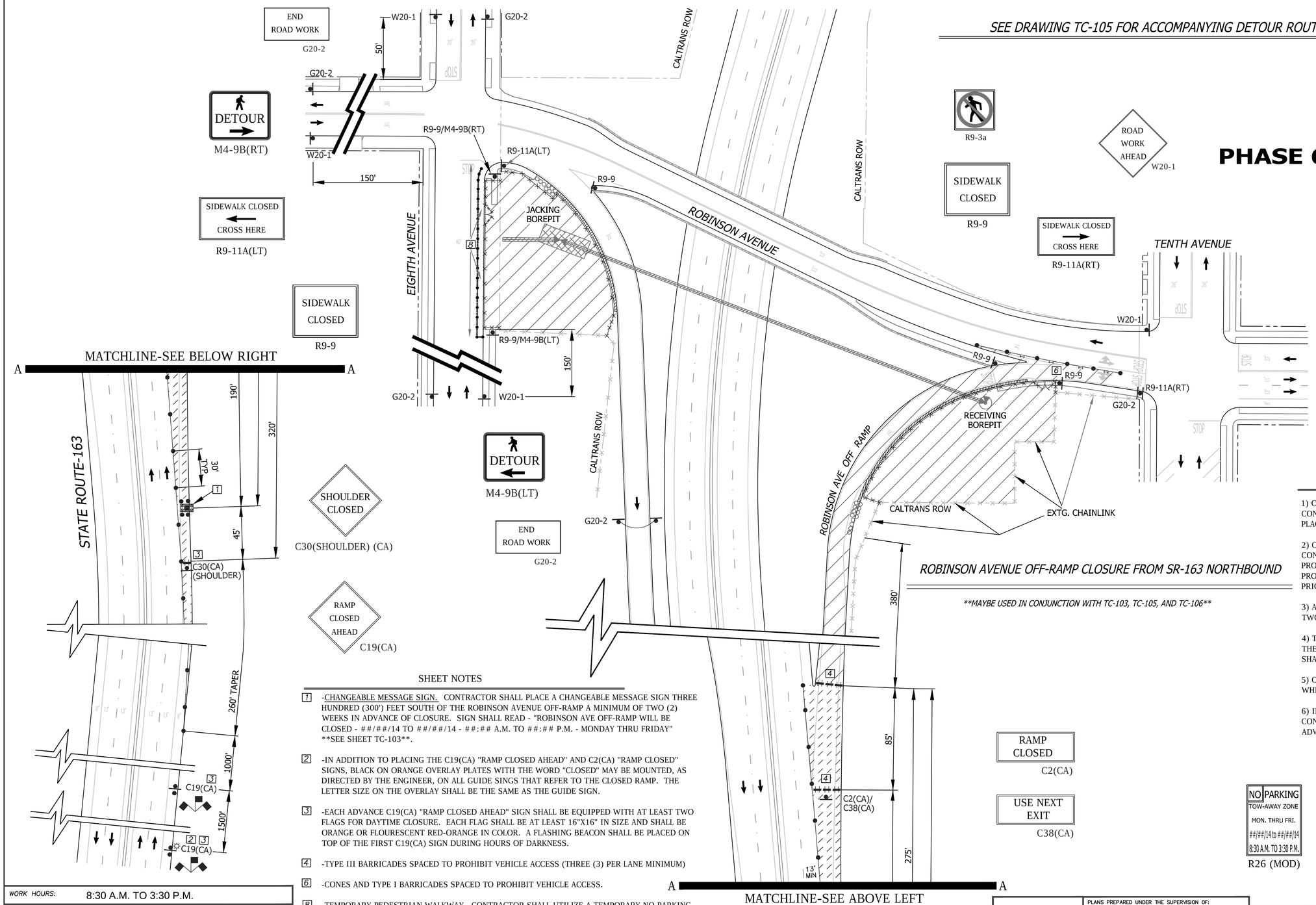
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-105 FOR ACCOMPANYING DETOUR ROUTE

PHASE 60, 61, & 62



ROBINSON AVENUE OFF-RAMP CLOSURE FROM SR-163 NORTHBOUND

MAYBE USED IN CONJUNCTION WITH TC-103, TC-105, AND TC-106

SHEET NOTES

1 -CHANGEABLE MESSAGE SIGN. CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN THREE HUNDRED (300') FEET SOUTH OF THE ROBINSON AVENUE OFF-RAMP A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CLOSURE. SIGN SHALL READ - "ROBINSON AVE OFF-RAMP WILL BE CLOSED - ##/##/14 TO ##/##/14 - ##:## A.M. TO ##:## P.M. - MONDAY THRU FRIDAY" **SEE SHEET TC-103**.

2 -IN ADDITION TO PLACING THE C19(CA) "RAMP CLOSED AHEAD" AND C2(CA) "RAMP CLOSED" SIGNS, BLACK ON ORANGE OVERLAY PLATES WITH THE WORD "CLOSED" MAY BE MOUNTED, AS DIRECTED BY THE ENGINEER, ON ALL GUIDE SINGS THAT REFER TO THE CLOSED RAMP. THE LETTER SIZE ON THE OVERLAY SHALL BE THE SAME AS THE GUIDE SIGN.

3 -EACH ADVANCE C19(CA) "RAMP CLOSED AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME CLOSURE. EACH FLAG SHALL BE AT LEAST 16"X16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE FIRST C19(CA) SIGN DURING HOURS OF DARKNESS.

4 -TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS (THREE (3) PER LANE MINIMUM)

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS.

8 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

WORK HOURS: 8:30 A.M. TO 3:30 P.M.

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE	25	N/A	N/A	150 FT.	25 FT
SR-163 NORTHBOUND	65	SEE DWG.		SEE DWG.	30 FT
SR-163 OFF-RAMP	50	N/A	N/A	500 FT.	30 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC-104

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-1A | DATE 06/13/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT SR-163 OFF RAMP CLOSURE
PHASES 60 THRU 62

CITY OF SAN DIEGO, CALIFORNIA
SHEET 104 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

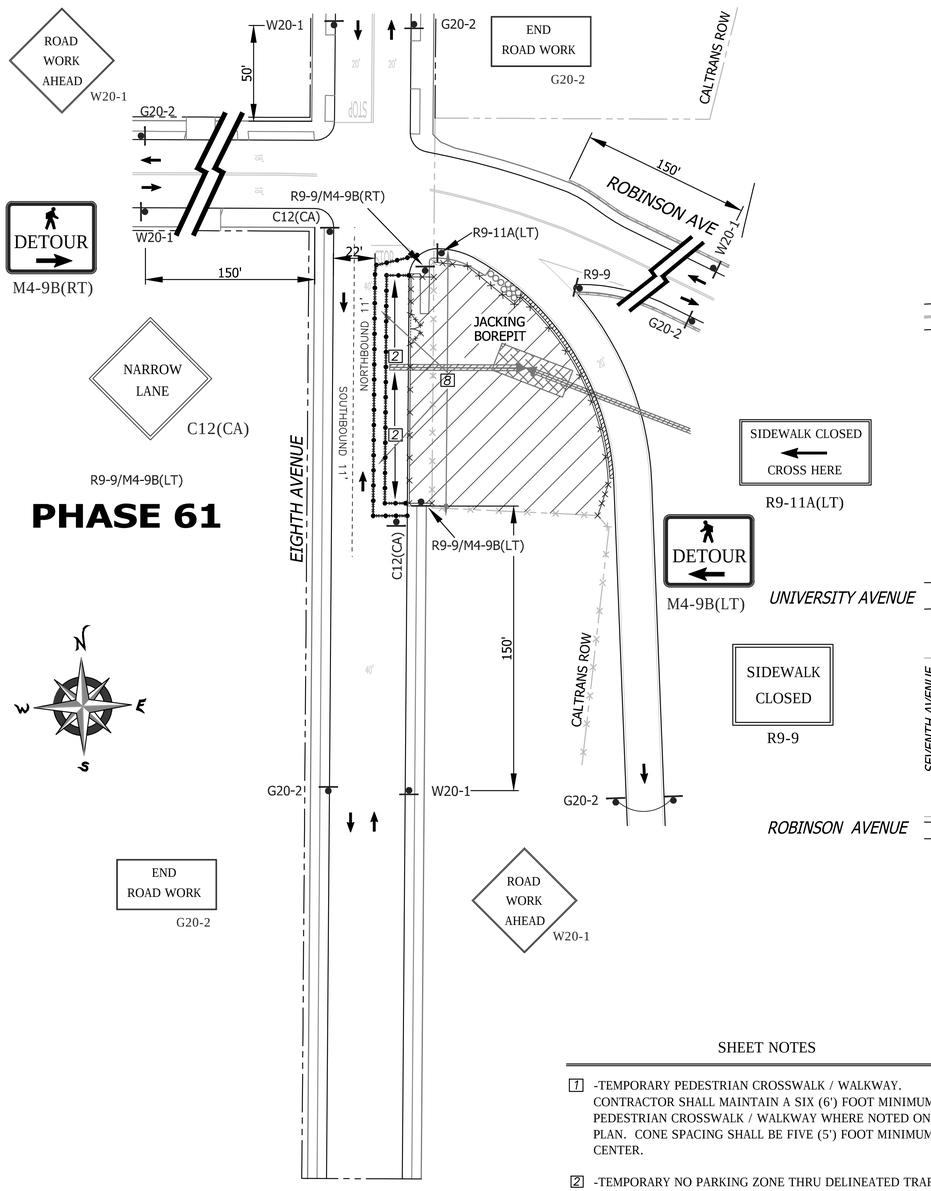
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

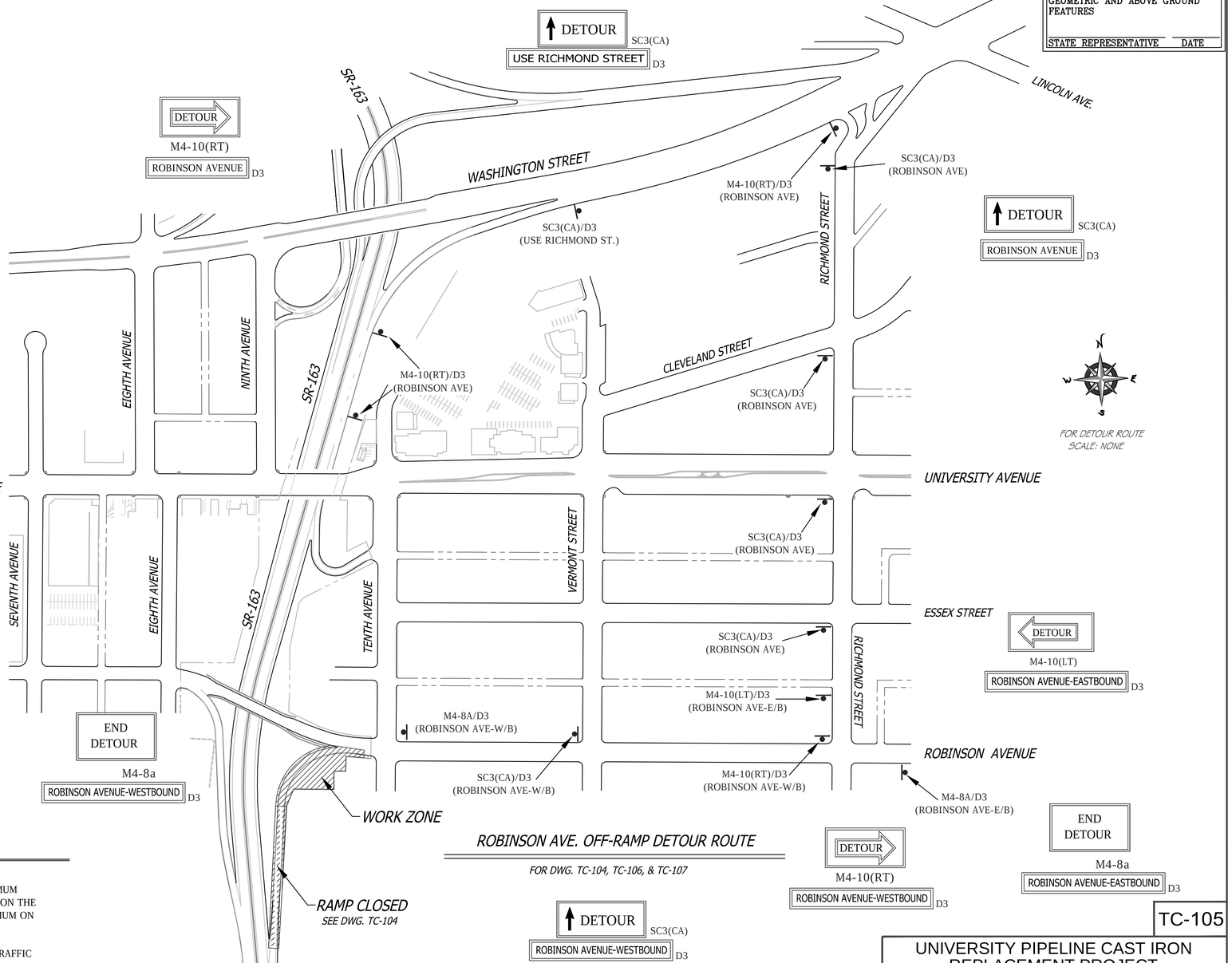
210-1719
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T104-D

THIS TRAFFIC CONTROL SETUP MAY BE USED IN CONJUNCTION WITH DRAWING TC-103, TC-104, OR TC-106.





PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE

4 - TYPE III BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH TWO (2) ROWS OF FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC AND THE WORK ZONE.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE.	25	N/A	N/A	150 FT.	25 FT
8th AVENUE	25	N/A	N/A	SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-105

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

EIGHTH AVENUE
SOUTH OF ROBINSON AVE-WEST OF SR-163 ROW
PHASE 61

CITY OF SAN DIEGO, CALIFORNIA
SHEET 105 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T105-D

PHASE 62

SEE DWG. TC-107 FOR ACCOMPANYING DETOUR ROUTE

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

DETOUR M4-10(RT) — ROBINSON AVENUE - EASTBOUND D3
DETOUR M4-8 — ROBINSON AVENUE - EASTBOUND D3
DETOUR M4-10(LT)
ROAD CLOSED TO THRU TRAFFIC R11-4
NARROW LANE C12(CA)
SIDEWALK CLOSED R9-9
R4-7A KEEP RIGHT
R1-1 STOP
R3-1
ROAD CLOSED R11-2
DETOUR AHEAD W20-2
DETOUR M4-8 — ROBINSON AVENUE - WESTBOUND D3
DETOUR M4-10(RT) — ROBINSON AVENUE - WESTBOUND D3
R60B(CA)
ROAD NARROWS W5-1
SIDEWALK CLOSED CROSS HERE R9-11A(RT)
NARROW LANE C12(CA)
ROAD WORK AHEAD W20-1
NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.
R26 (MOD)

MATCHLINE-SEE DWG. TC-107
MATCHLINE-SEE ABOVE LEFT
MATCHLINE-SEE DWG. TC-107

ROBINSON AVENUE
EIGHTH AVENUE
TENTH AVENUE
ROBINSON AVE.
ESSEX STREET
ONEIDA WAY
SR-163
SR-163 N/B ON-RAMP
ROBINSON AVE. OFF RAMP
CALTRANS ROW

CUSTOM SIGN: 36" MIN. × 42" MIN. — CALIFORNIA 163 — SOUTHBOUND ACCESS ONLY

SIDEWALK CLOSED CROSS HERE R9-11A(LT)
DETOUR M4-9B(RT)
DETOUR M4-9B(LT)

SEE DWG. TC-104 FOR TRAFFIC CONTROL SETUP FOR OFF-RAMP CLOSURE & DWG. TC-105 FOR ACCOMPANYING DETOUR ROUTE

PLACE ADVANCE WARNING SIGNS ON TALL STANDS

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY / CROSSWALK. CONTRACTOR SHALL PROVIDE A EIGHT (8') FOOT(MINIMUM) WIDE PEDESTRIAN CROSSWALK WHERE SHOWN ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[8] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE THE TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

WORK HOURS: **8:30 A.M. to 3:30 P.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.	150 FT.	25 FT	
10th AVENUE	25	SEE DWG.	SEE DWG.	25 FT	
ROBINSON AVE E/O 10th	35	SEE DWG.	250 FT.	25 FT	

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-106

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
BETWEEN SR-163 OFF-RAMP & 10th AVENUE
PHASE 62

CITY OF SAN DIEGO, CALIFORNIA
SHEET 106 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

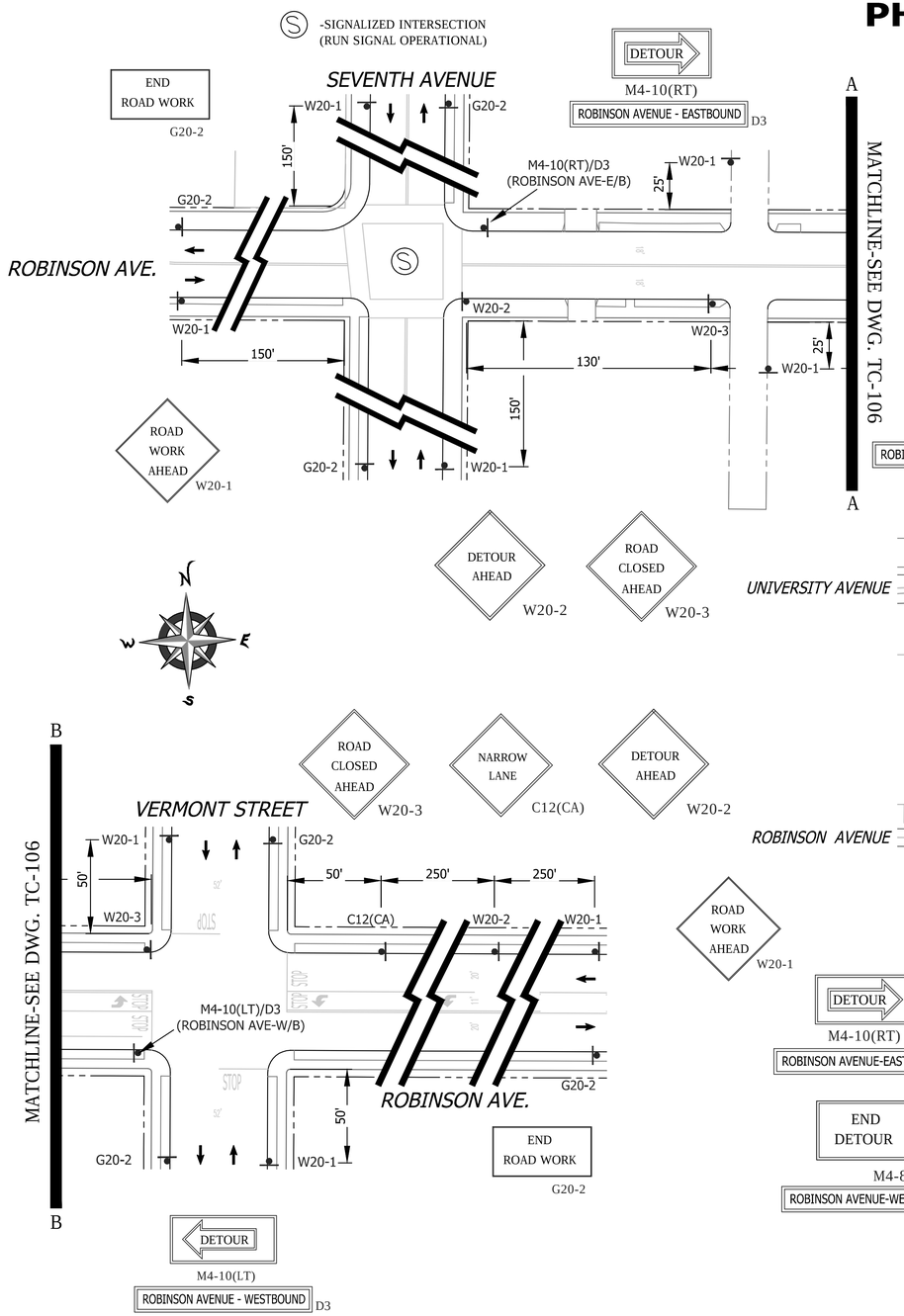
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

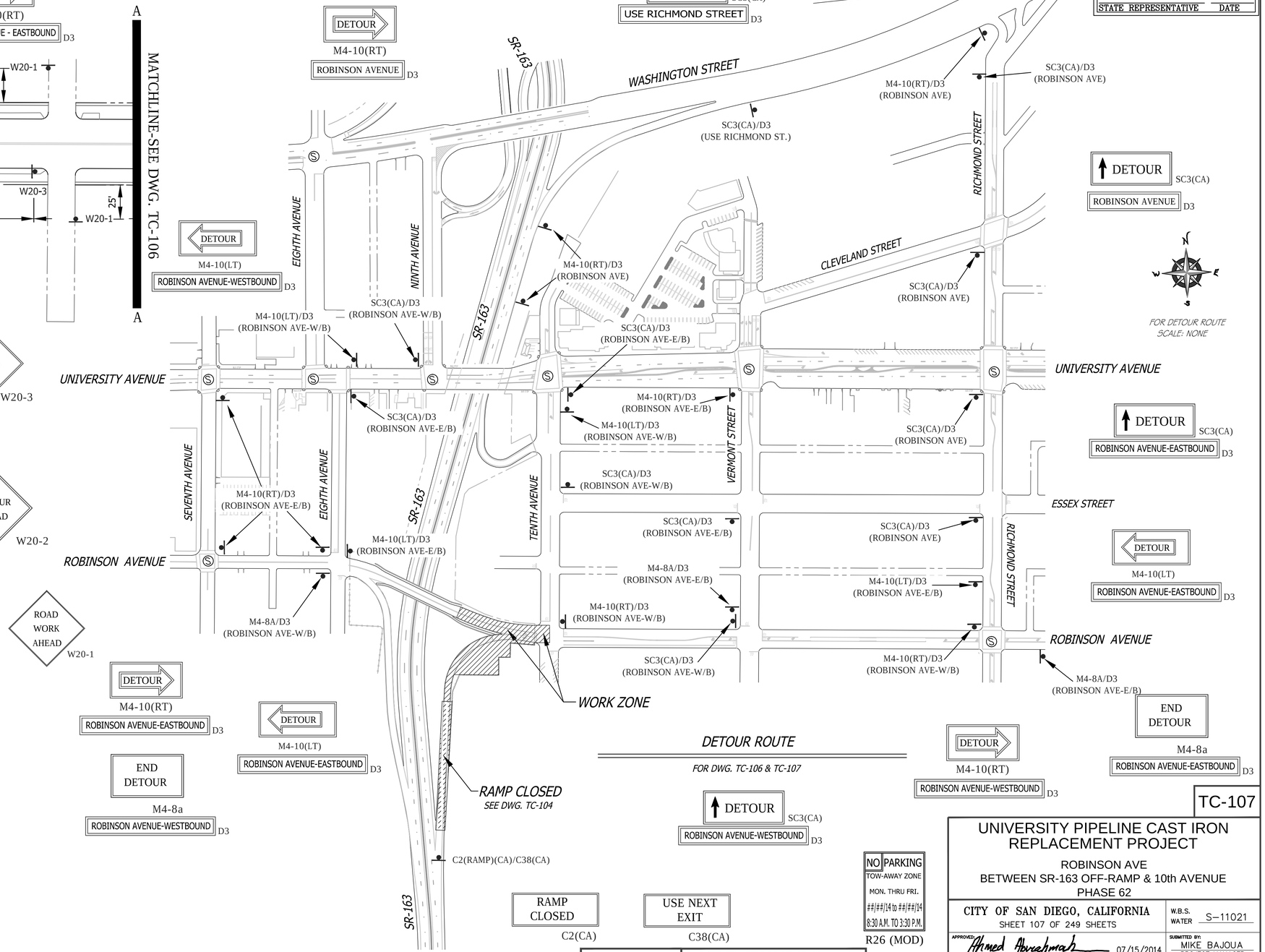
36656-T106-D

PHASE 62 (CONTINUED)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)





WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVE/VERMONT ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060th07 | DATE:06/15/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
BETWEEN SR-163 OFF-RAMP & 10th AVENUE
PHASE 62

CITY OF SAN DIEGO, CALIFORNIA
SHEET 107 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

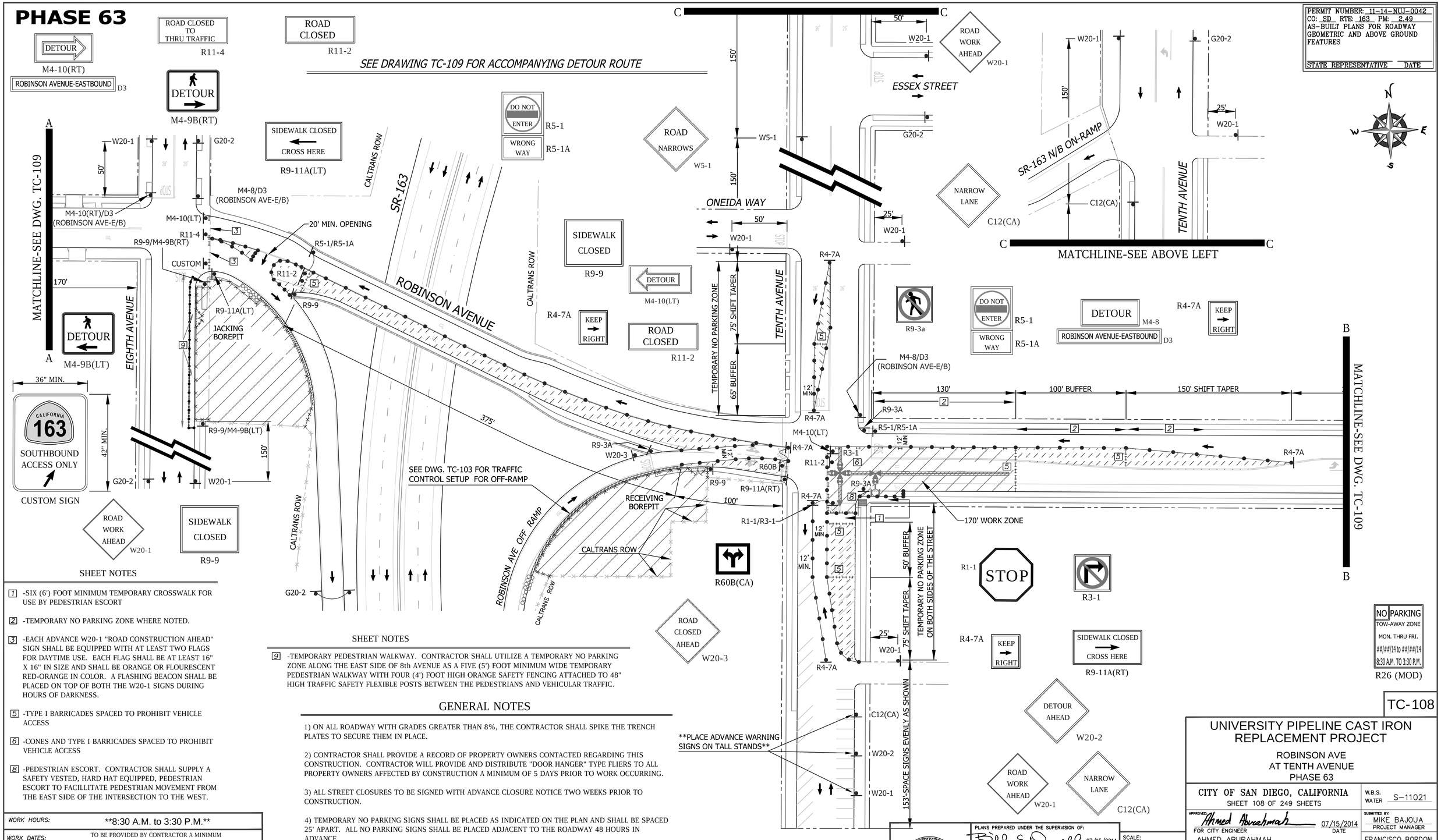
210-1719
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

TC-107

36656-T107-D

PHASE 63



PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY CROSSWALK FOR USE BY PEDESTRIAN ESCORT

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF BOTH THE W20-1 SIGNS DURING HOURS OF DARKNESS.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT FROM THE EAST SIDE OF THE INTERSECTION TO THE WEST.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

9 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL UTILIZE A TEMPORARY NO PARKING ZONE ALONG THE EAST SIDE OF 8th AVENUE AS A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS BETWEEN THE PEDESTRIANS AND VEHICULAR TRAFFIC.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-108

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT TENTH AVENUE
PHASE 63

CITY OF SAN DIEGO, CALIFORNIA
SHEET 108 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

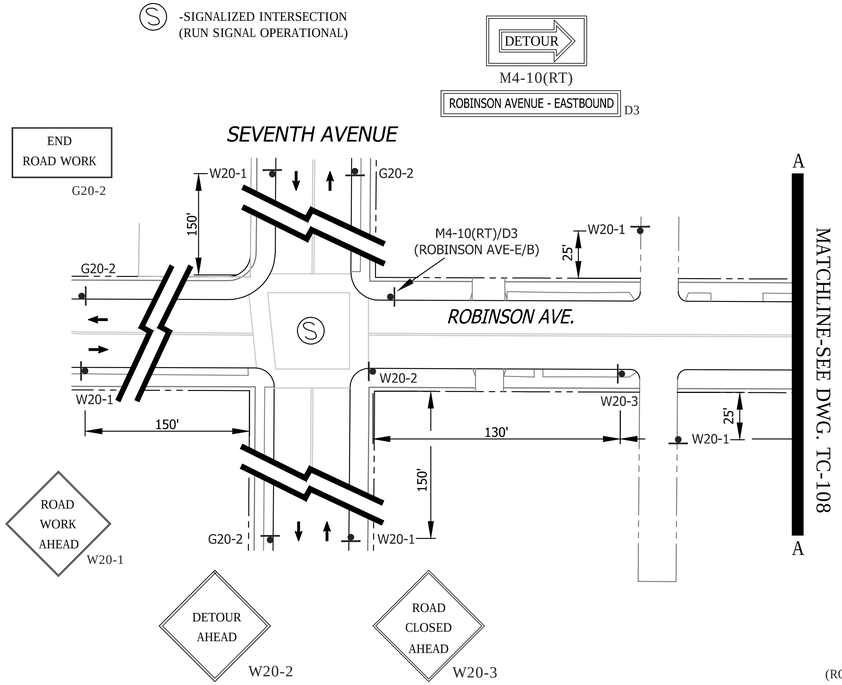
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

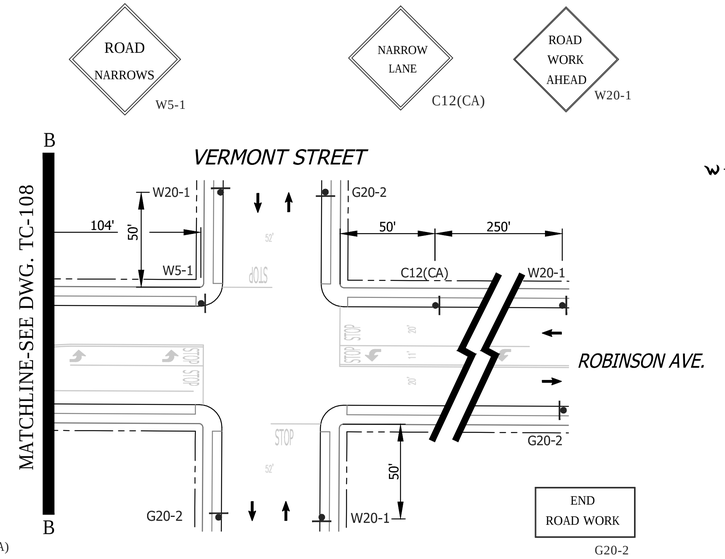
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

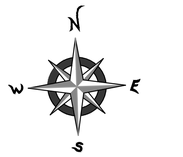
36656-T108-D

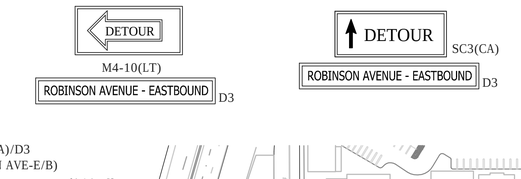
PHASE 63 (CONTINUED)

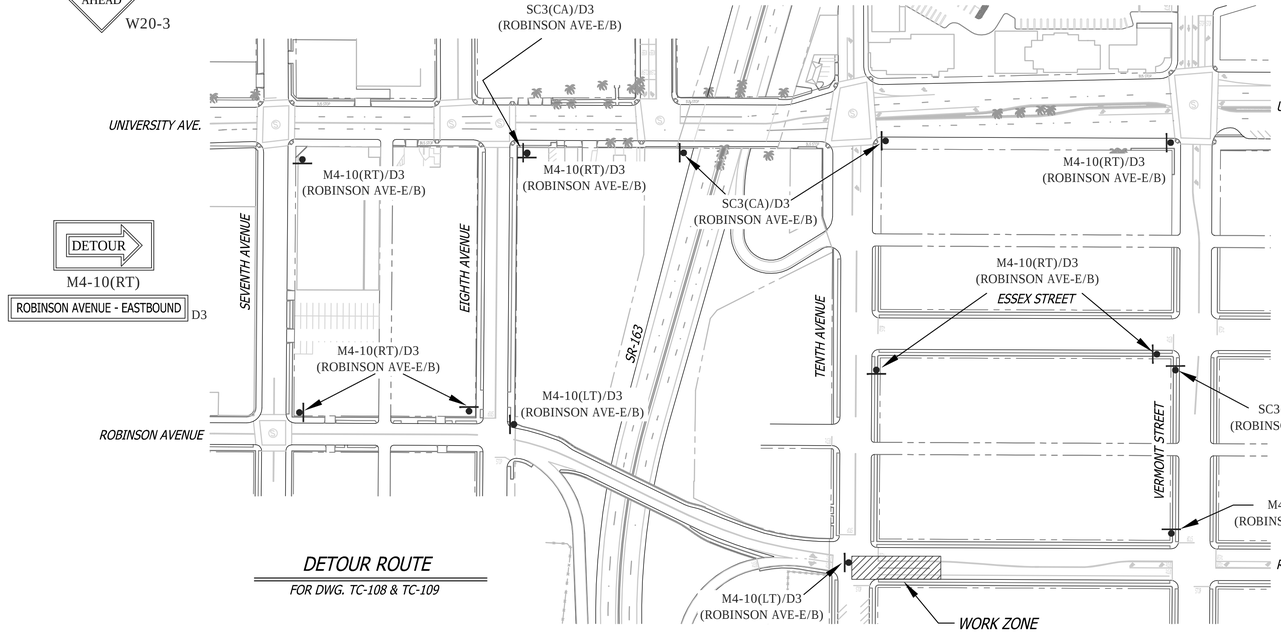
PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE











DETOUR ROUTE
FOR DWG. TC-108 & TC-109

FOR DETOUR ROUTE
SCALE:NONE

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY CROSSWALK FOR USE BY PEDESTRIAN ESCORT
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF BOTH THE W20-1 SIGNS DURING HOURS OF DARKNESS.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
8. -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT FROM THE EAST SIDE OF THE INTERSECTION TO THE WEST.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th AVENUE	25	SEE DWG.		SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601tc-1a | DATE: 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-109

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT TENTH AVENUE
PHASE 63

CITY OF SAN DIEGO, CALIFORNIA
SHEET 109 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T109-D

PHASE 64

EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION.

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

EIGHTH AVENUE
ROBINSON AVENUE
SR-163
CALTRANS ROW
ONEIDA WAY
ESSEX STREET
TENTH AVENUE
SR-163 N/B ON-RAMP
SR-163 N/B OFF RAMP
VERMONT STREET
MATCHLINE-SEE ABOVE LEFT
MATCHLINE-SEE BELOW LEFT
MATCHLINE-SEE ABOVE RIGHT
NINTH AVE.
UNIVERSITY AVE.
EIGHTH AVE.
TENTH AVE.
VERMONT ST.
ROBINSON AVE.

ROAD NARROWS W5-1
C9A
BE PREPARED TO STOP W3-4
W1-4(RT)
KEEP RIGHT R4-7A
R9-3a
ROAD WORK AHEAD W20-1
NARROW LANE C12(CA)
DETOUR M4-8 TENTH AVENUE - NORTHBOUND D3
DETOUR M4-10(RT) TENTH AVENUE - NORTHBOUND D3
TENTH AVENUE NORTHBOUND CLOSED USE DETOUR
DETOUR AHEAD W20-2
END ROAD WORK G20-2
RIGHT LANE MUST TURN RIGHT R3-7(RT)
W1-4 (LT)
END DETOUR M4-8a TENTH AVENUE - NORTHBOUND D3
M4-10(RT)/D3 (TENTH AVE-N/B)
M4-8/D3 (TENTH AVE-N/B)
M4-8A/D3 (TENTH AVE-N/B)
M4-10(LT)/D3 (TENTH AVE-N/B)
DETOUR ROUTE FOR DWG. TC-110
75' REVERSE SHIFT TAPER
R3-1
135' MIN. BUFFER [2]
200' SHIFT TAPER [2]
147'
W3-4/C12(CA)
340' TEMPORARY NO PARKING ZONE
64' BUFFER
75' SHIFT TAPER
TEMPORARY NO PARKING ZONE ON BOTH SIDES OF THE STREET
153'-SPACE SIGNS EVENLY AS SHOWN
100' SHIFT TAPER
55'
20'
50'
75' SHIFT TAPER
65' BUFFER
TEMPORARY NO PARKING ZONE
80'
150'
250'
500'
PLACE ADVANCE WARNING SIGNS ON TALL STANDS
R11-3A(MOD)/D3 (TENTH AVE-N/B)
W20-2
R4-7A
R3-7(RT)
C9A(CA)
C12(CA)
W3-4
R9-3A
W1-4(LT)
12' MIN

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY CROSSWALK TO FACILLITATE PEDESTRIAN MOVEMENT TO OTHER SIDE OF THE STREET. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE WARNING SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

DETOUR M4-10(LT) TENTH AVENUE - NORTHBOUND D3

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.	150 FT.	25 FT
10th AVENUE	25	SEE DWG.	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.	250 FT.	25 FT

TC-110

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT 10th AVENUE (PHASE 3)
PHASE 64

CITY OF SAN DIEGO, CALIFORNIA
SHEET 110 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER AHMED ABURAHMAH PRINT NAME 07/15/2014 DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T110-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF: Bill E Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

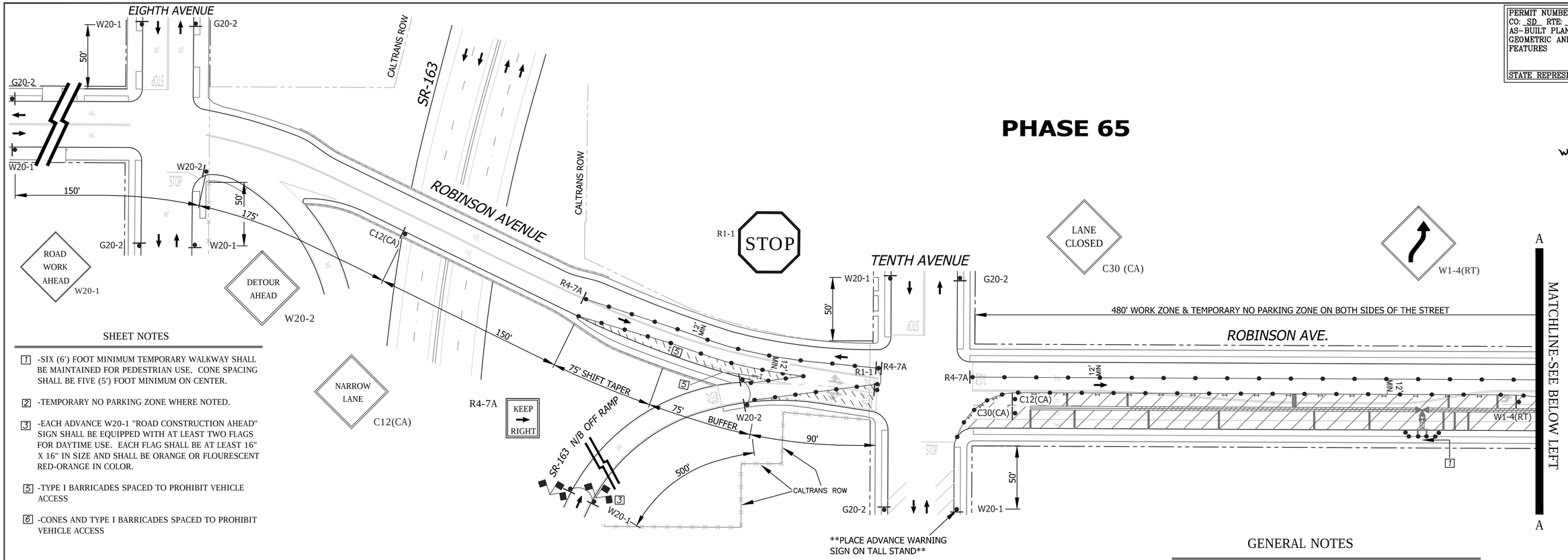
DWG NAME: 130601-1A | DATE 06/14/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

PHASE 65



SHEET NOTES

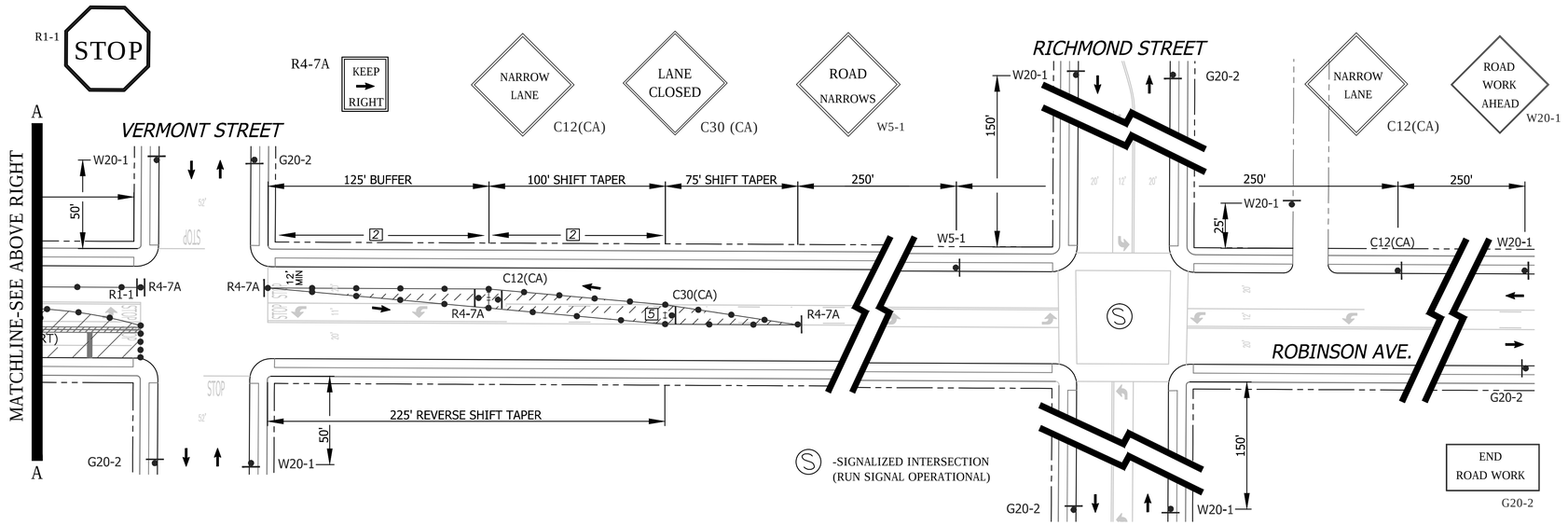
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-111

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th/VERMONT/RICHMOND	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
TENTH AVENUE TO VERMONT AVENUE
PHASE 65

CITY OF SAN DIEGO, CALIFORNIA
SHEET 111 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

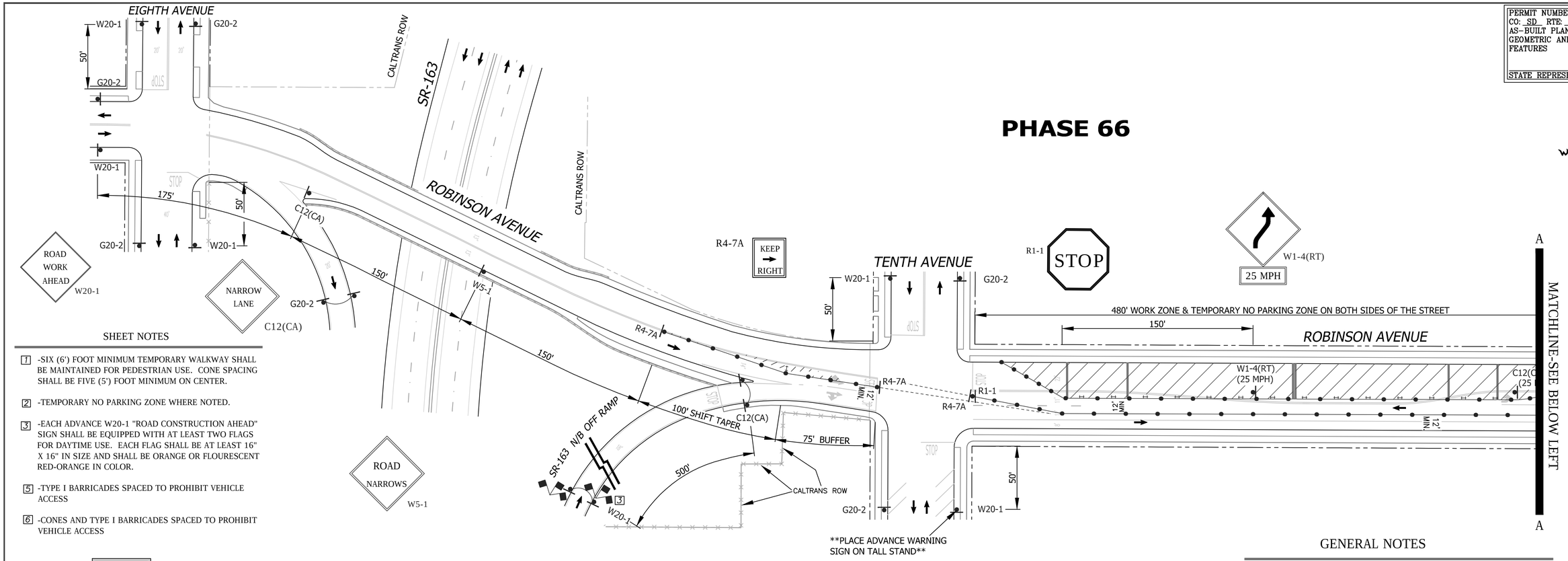
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T111-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

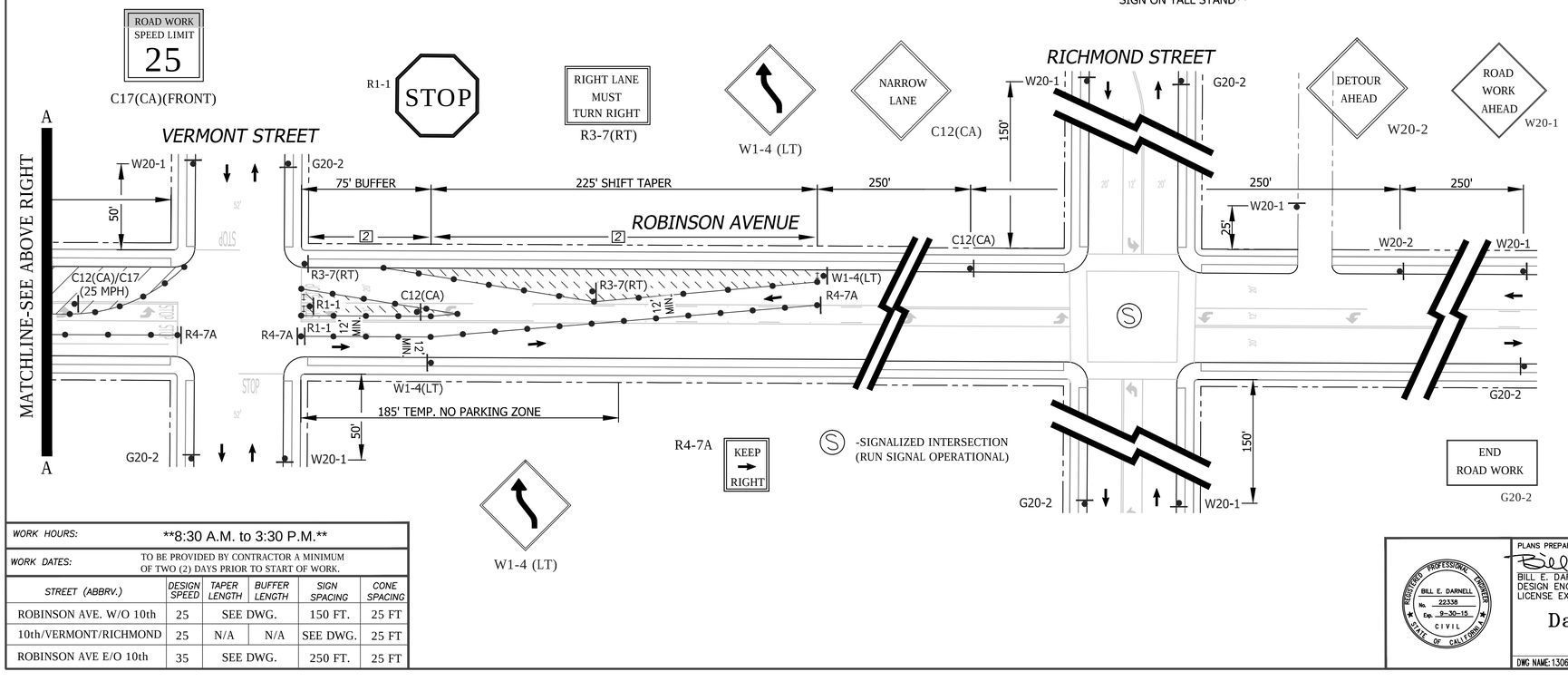
STATE REPRESENTATIVE DATE

PHASE 66



SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	SEE DWG.		150 FT.	25 FT
10th/VERMONT/RICHMOND	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-112

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
TENTH AVENUE TO VERMONT AVENUE
PHASE 66

CITY OF SAN DIEGO, CALIFORNIA
SHEET 112 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T112-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

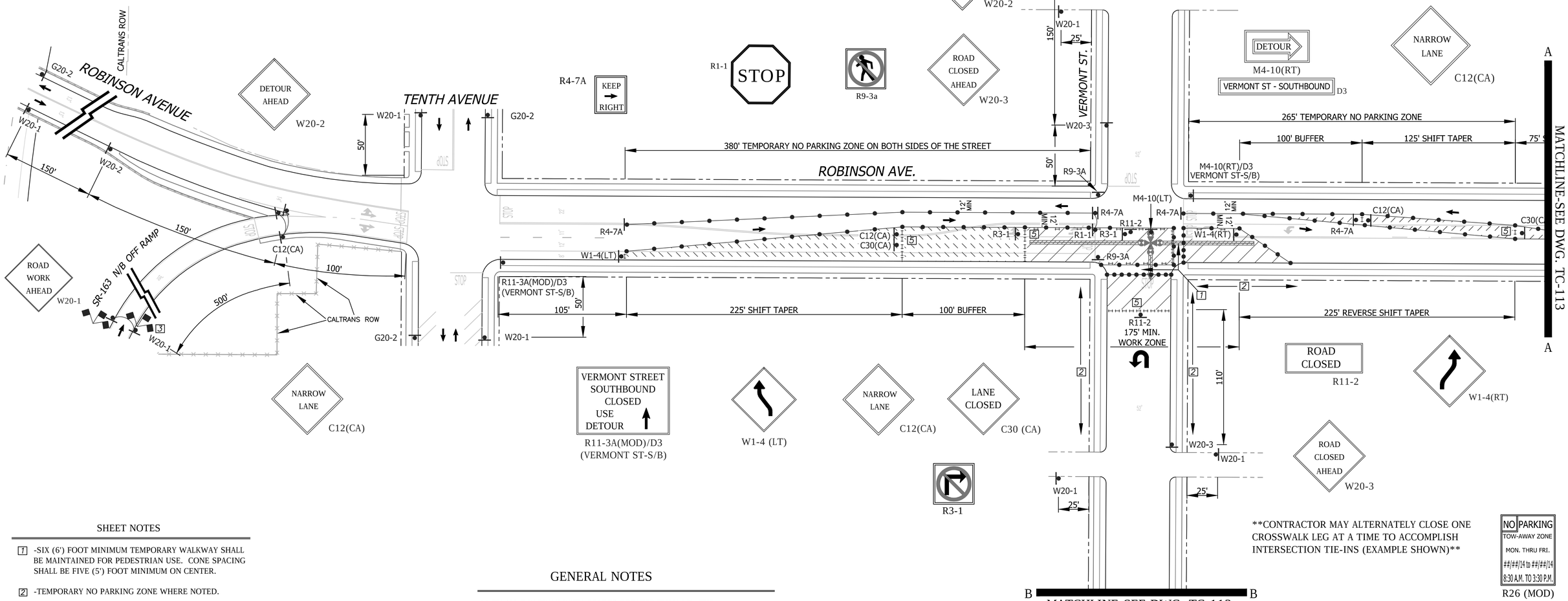
DWG NAME: 13060D-1A | DATE 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 67

SEE DRAWING TC-114 FOR ACCOMPANYING DETOUR ROUTE

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE



CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[7] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060B-1A | DATE: 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-113

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 67

CITY OF SAN DIEGO, CALIFORNIA
SHEET 113 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

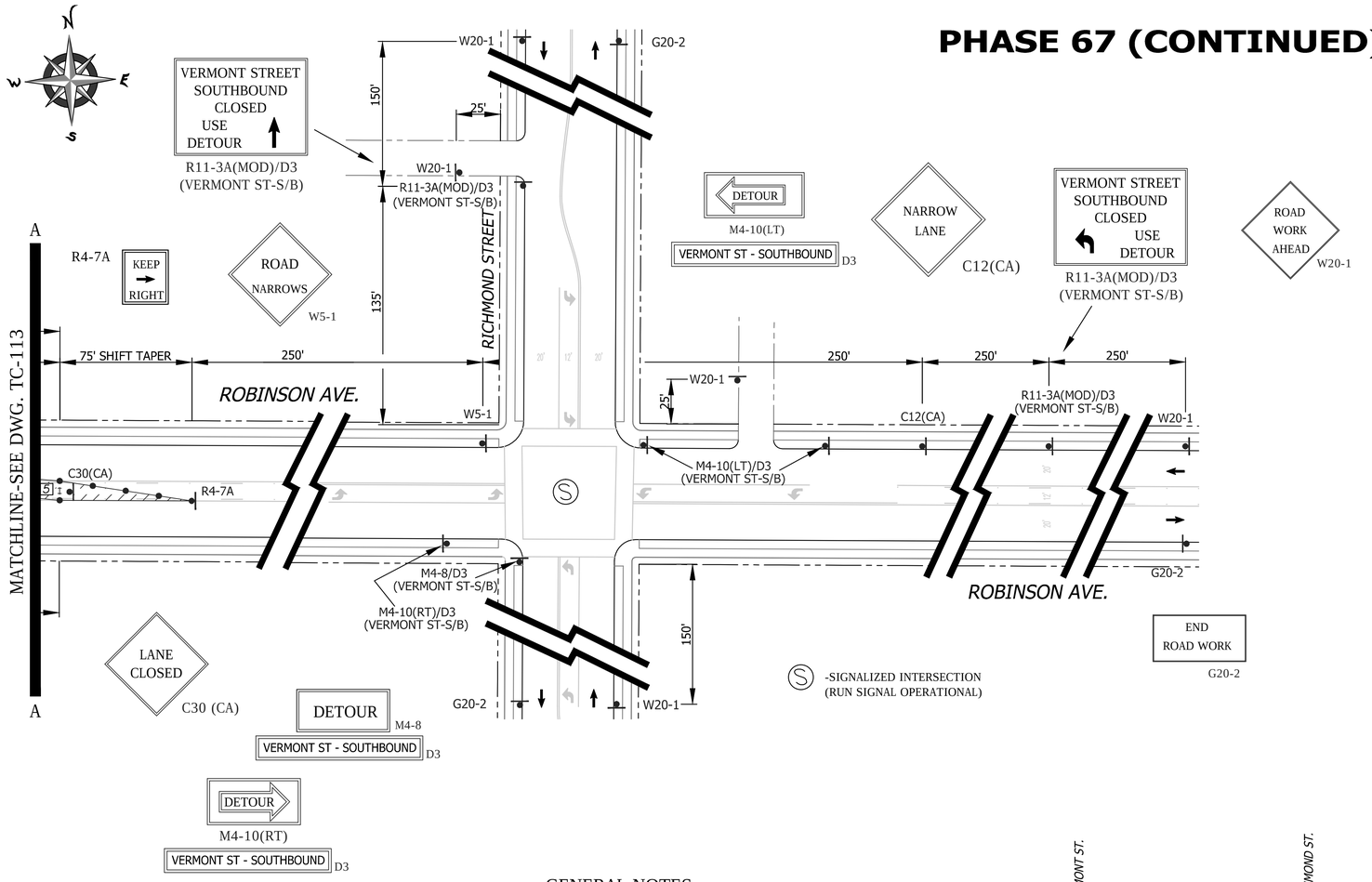
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

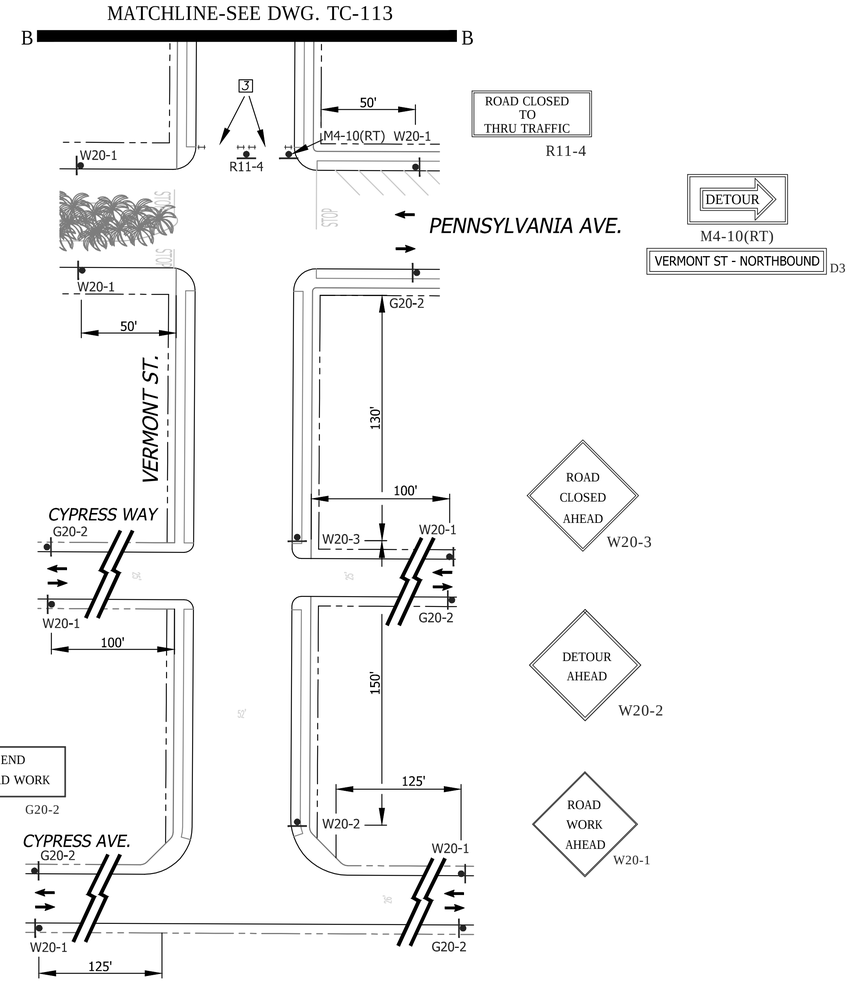
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

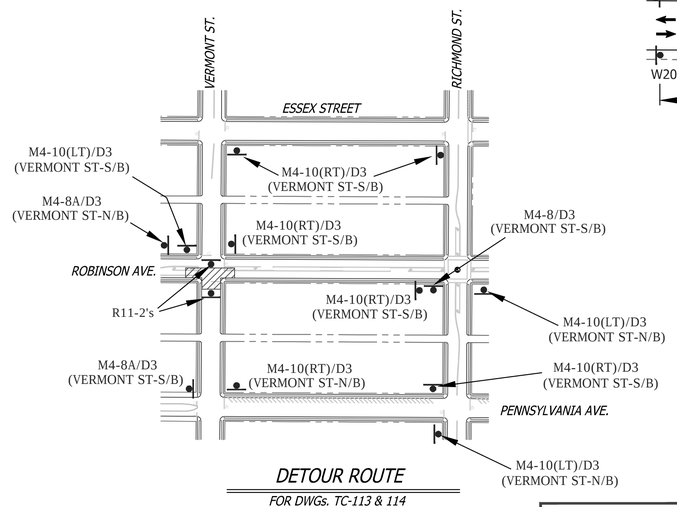
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T113-D

PHASE 67 (CONTINUED)







DETOUR ROUTE

FOR DWGs. TC-113 & 114

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS: **8:30 A.M. to 3:30 P.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	N/A	N/A	SEE DWG.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130607tc-1A | DATE: 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-114

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 67

CITY OF SAN DIEGO, CALIFORNIA
SHEET 114 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

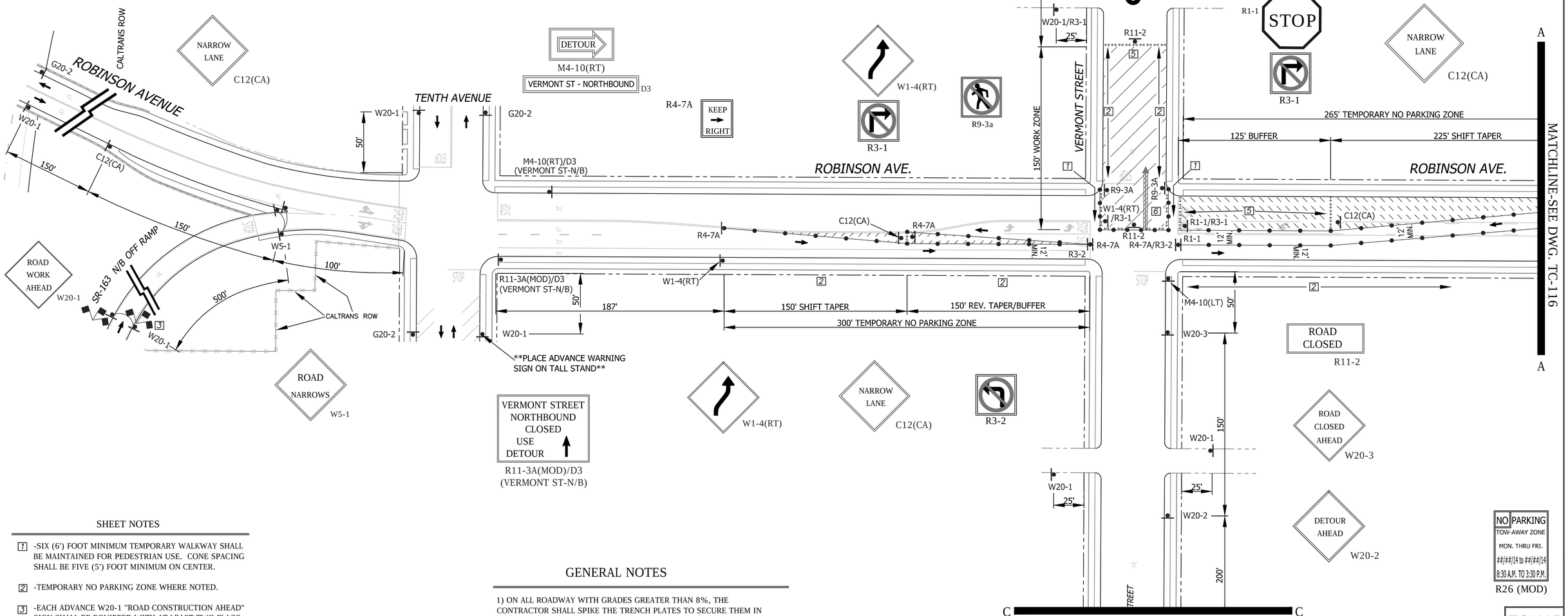
36656-T114-D

PHASE 68

SEE DRAWING TC-116 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-116

PERMIT NUMBER: 11-14-NUJ-0042	
CO: SD	RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES	
STATE REPRESENTATIVE	DATE



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600b-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-115

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 68

CITY OF SAN DIEGO, CALIFORNIA
SHEET 115 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

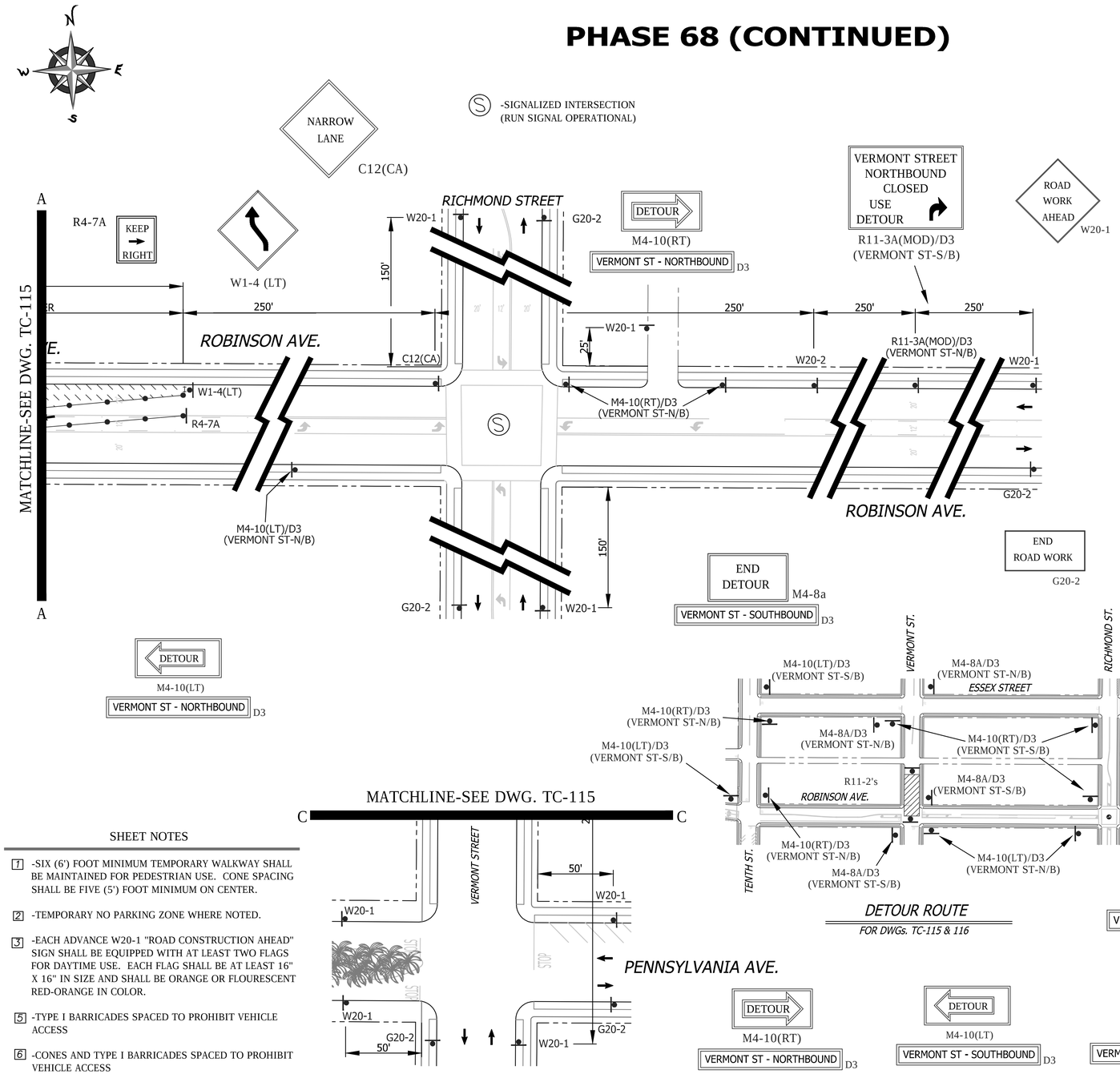
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T115-D

PHASE 68 (CONTINUED)



SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED.
3. -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	N/A	N/A	SEE DWG.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-116

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT VERMONT AVENUE
PHASE 68

CITY OF SAN DIEGO, CALIFORNIA
SHEET 116 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

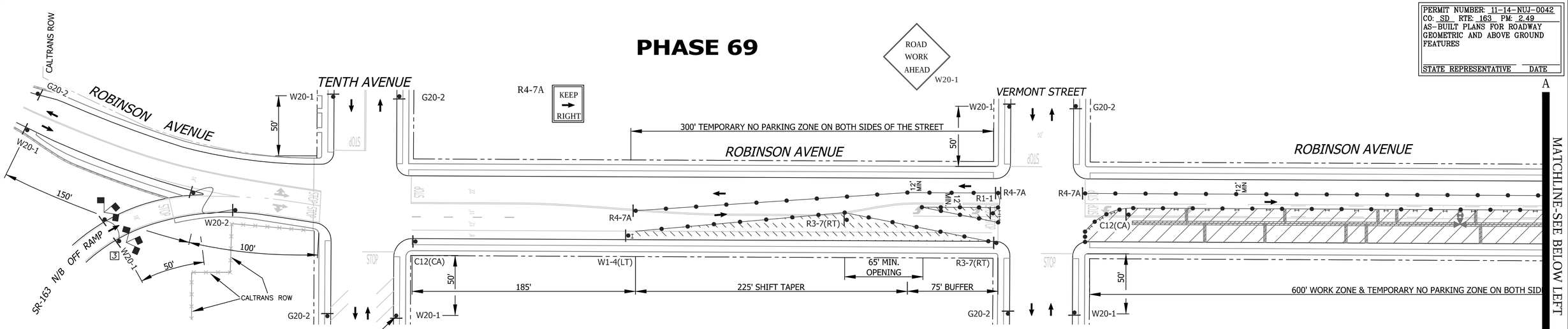
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T116-D

PHASE 69

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

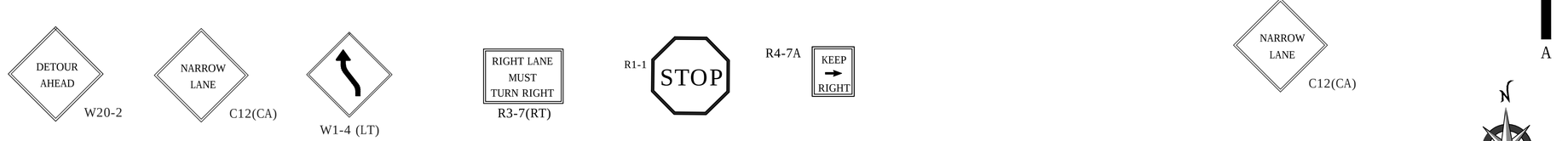
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

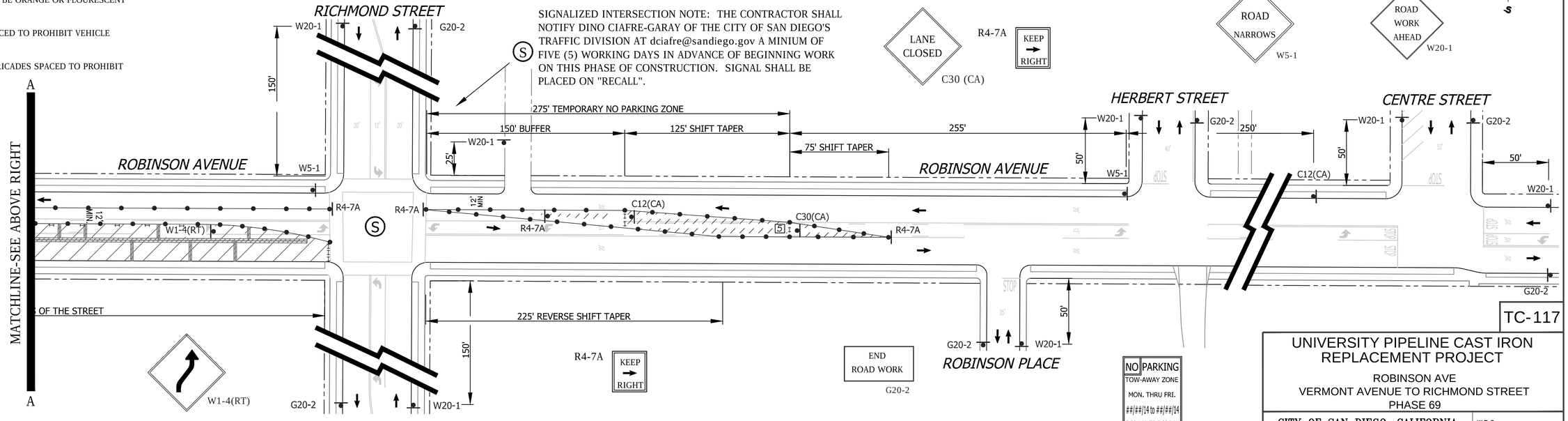
2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS





WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT/RICHMOND ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-117

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
VERMONT AVENUE TO RICHMOND STREET
PHASE 69

CITY OF SAN DIEGO, CALIFORNIA
SHEET 117 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

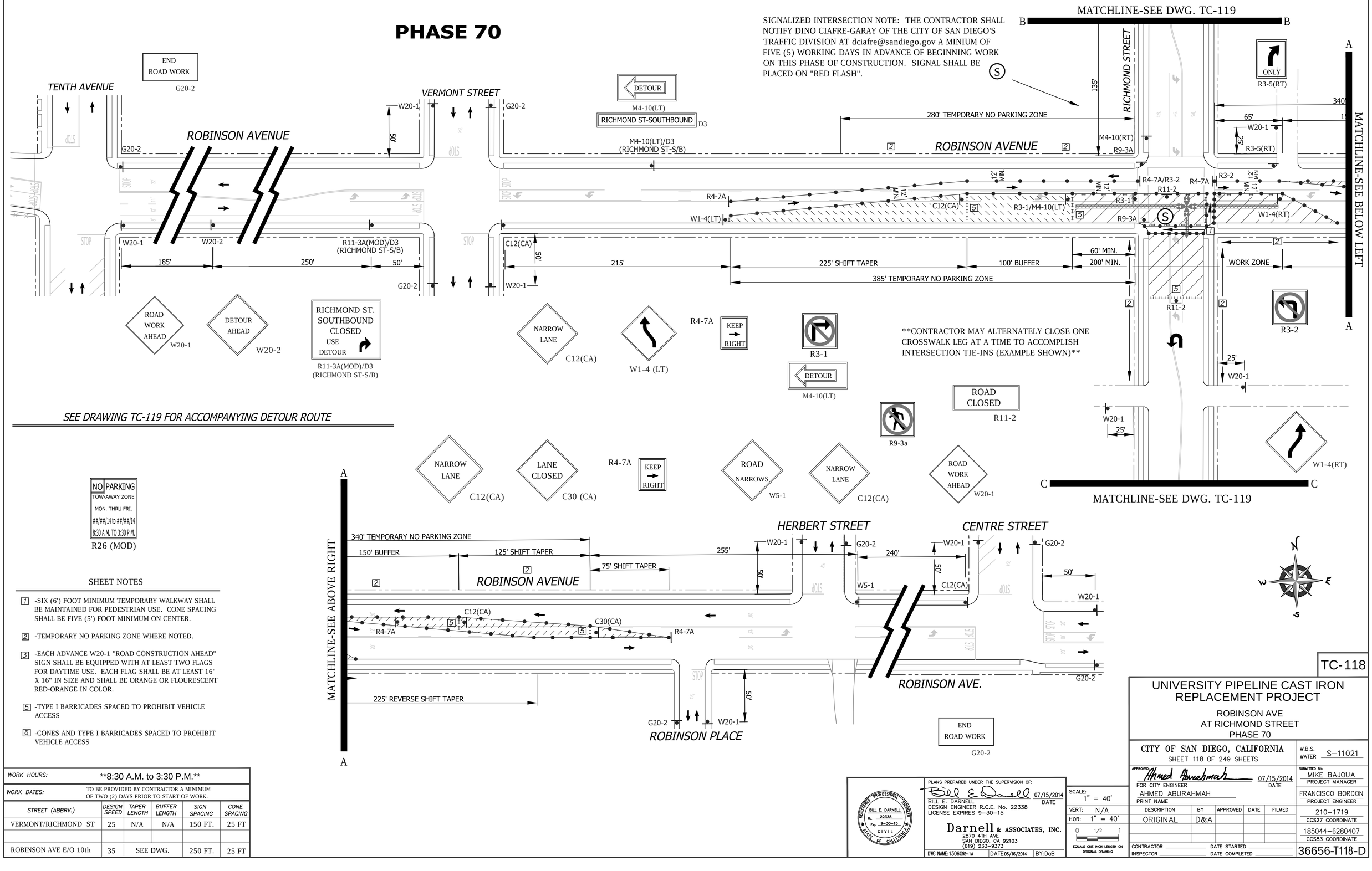
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T117-D

PHASE 70

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DRAWING TC-119 FOR ACCOMPANYING DETOUR ROUTE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[7] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601S-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-118

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 70

CITY OF SAN DIEGO, CALIFORNIA
SHEET 118 OF 249 SHEETS

W.B.S. WATER S-11021

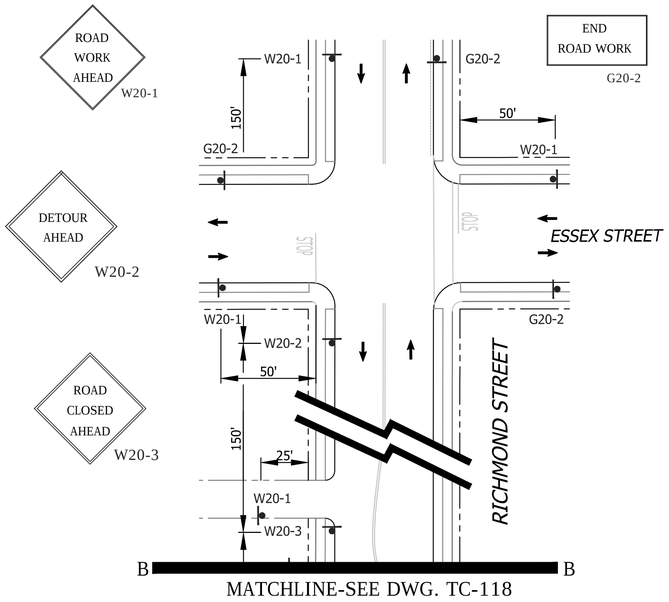
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY:
MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T118-D

PHASE 70 (CONTINUED)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

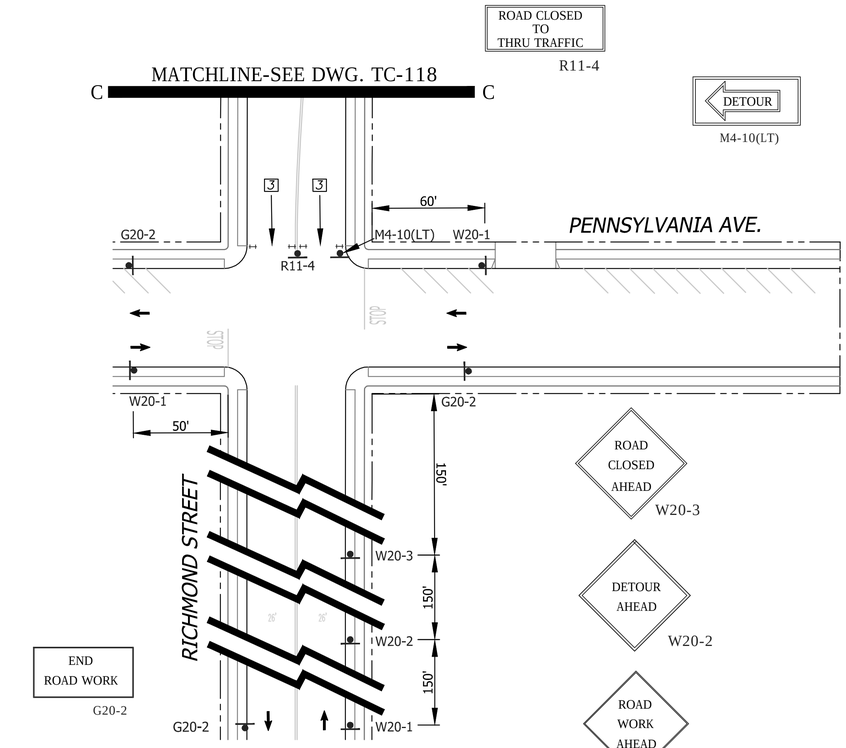
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

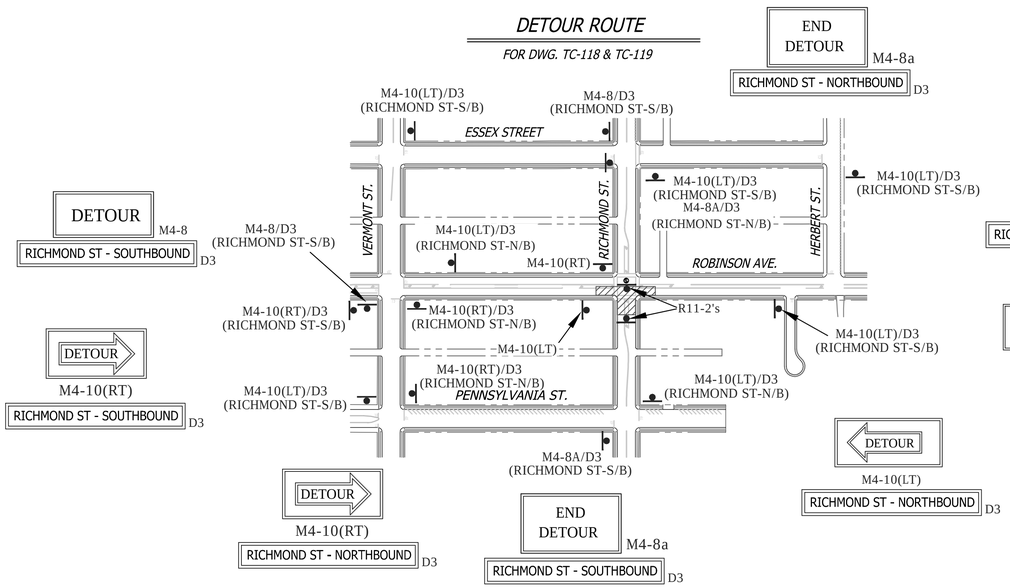
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.





SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1A | DATE: 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-119

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 70

CITY OF SAN DIEGO, CALIFORNIA
SHEET 119 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

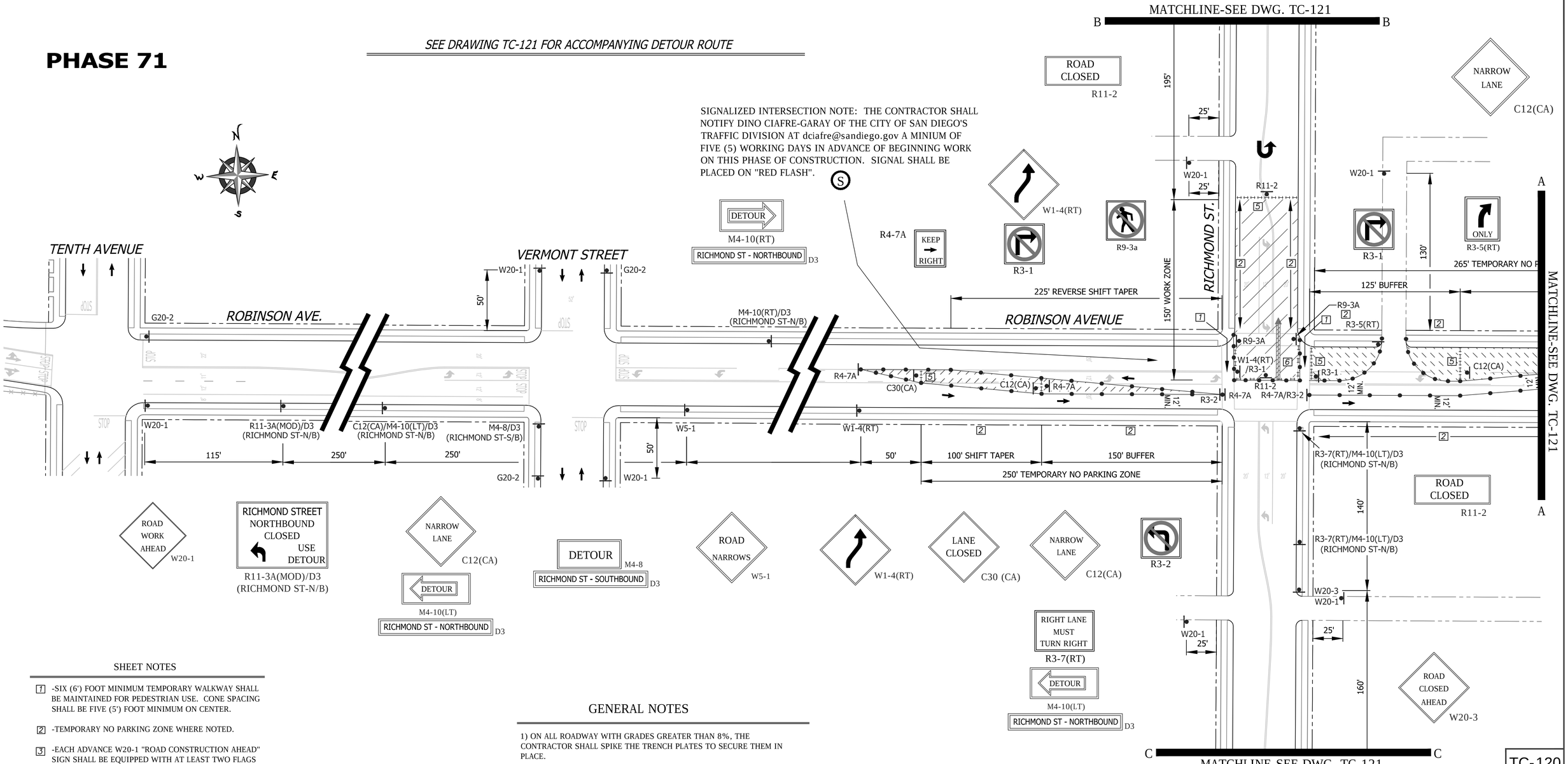
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T119-D

PHASE 71

SEE DRAWING TC-121 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
RICHMOND ST. N/O UNIV.	30	N/A	N/A	200 FT.	25 FT
RICHMOND ST. S/O UNIV.	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE:06/15/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-120

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 71

CITY OF SAN DIEGO, CALIFORNIA
SHEET 120 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

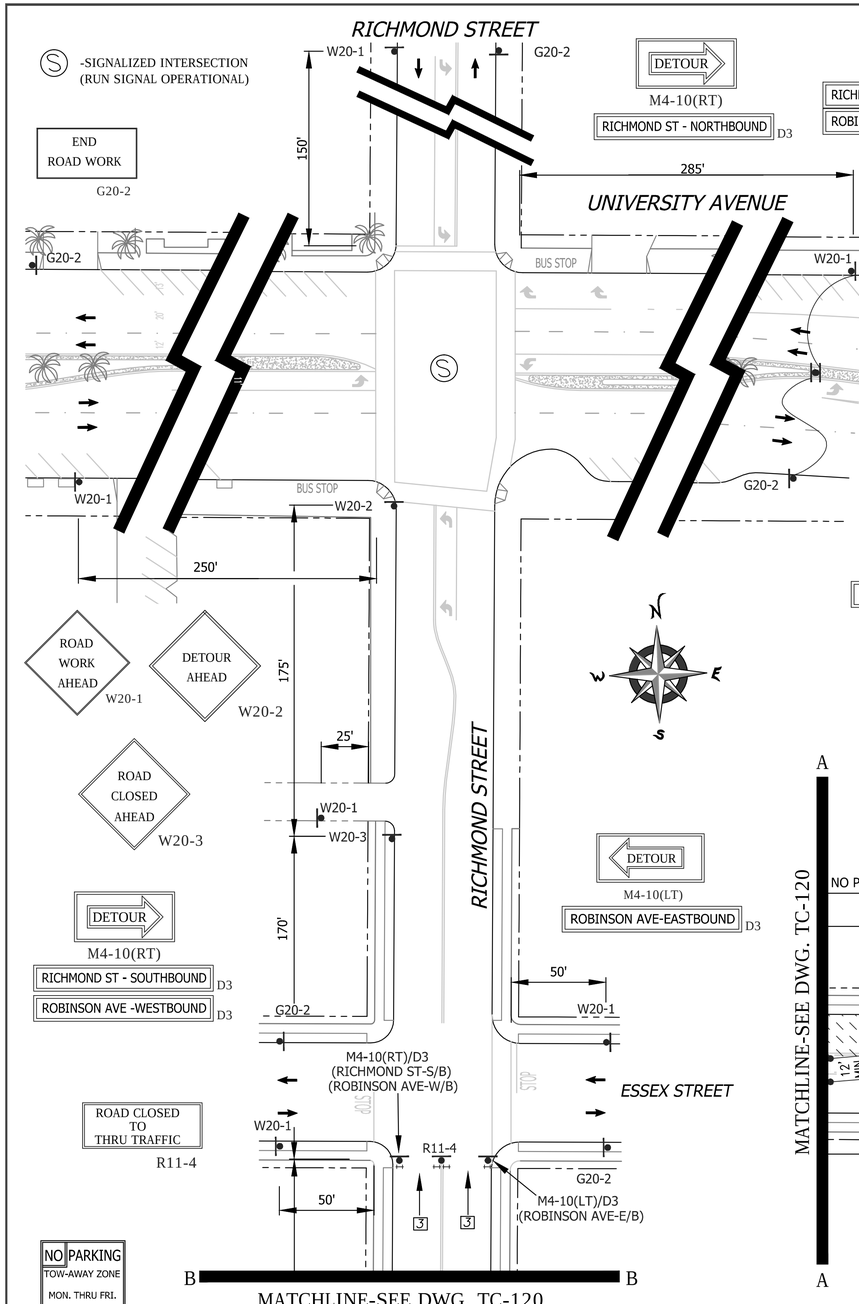
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

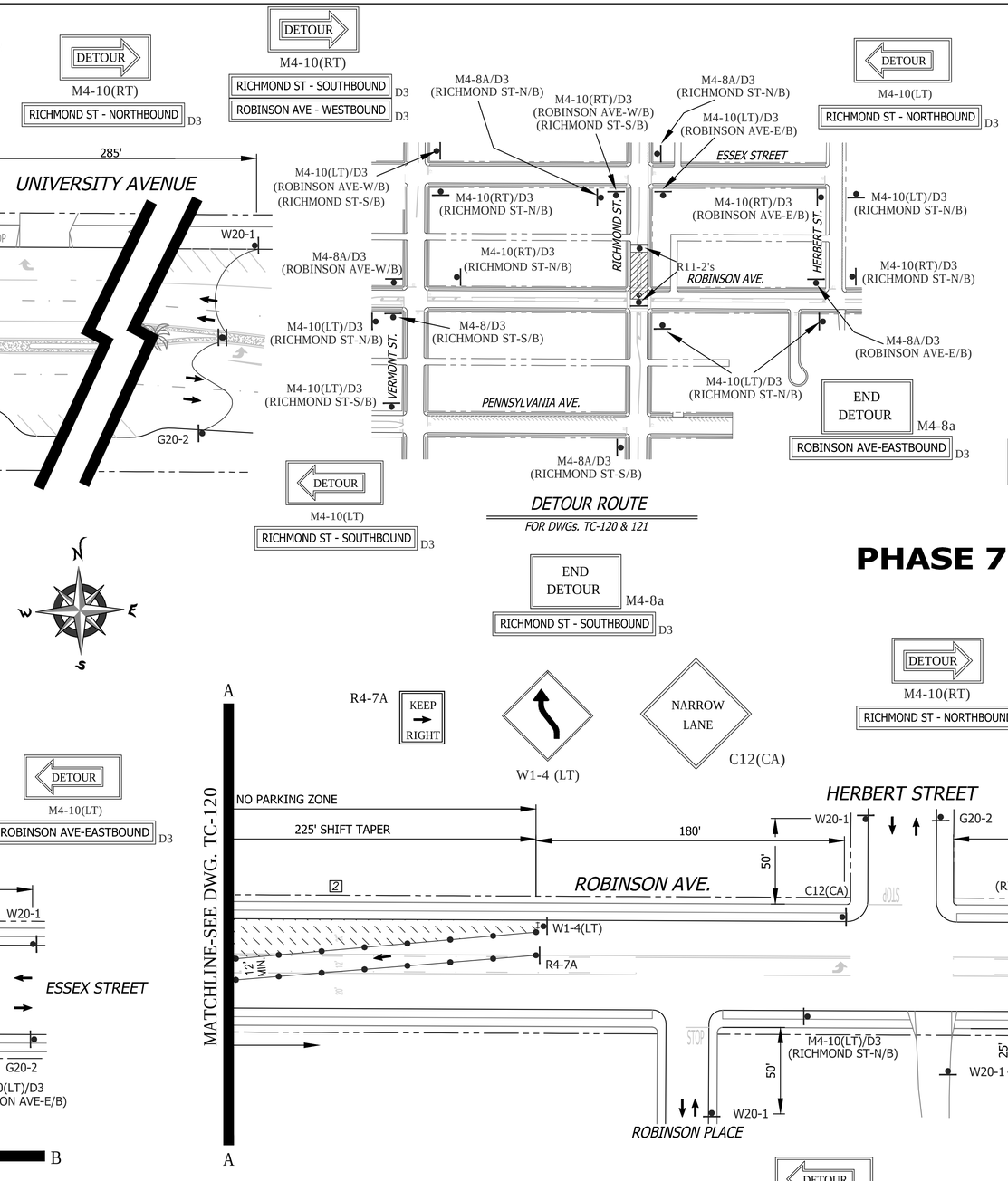
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T120-D

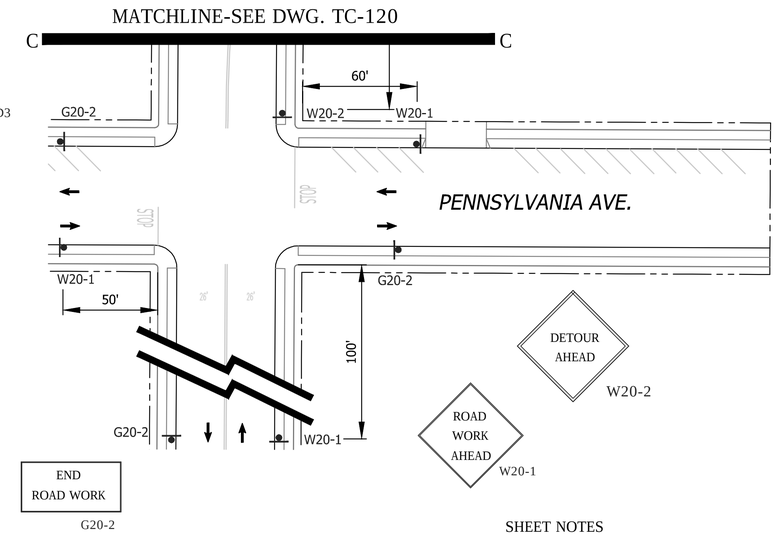
PHASE 71 (CONTINUED)





DETOUR ROUTE

FOR DWGs. TC-120 & 121



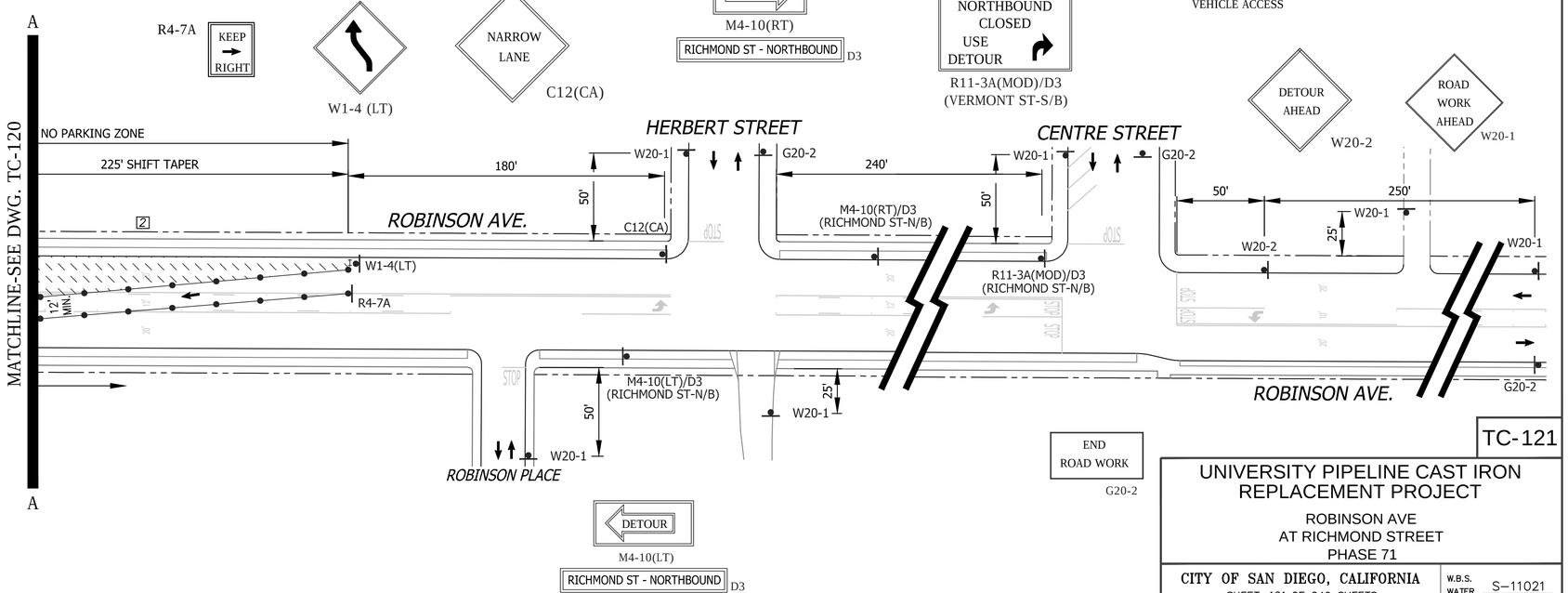
SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND ST N/O UNIV.	30	N/A	N/A	200 FT.	25 FT
RICHMOND ST S/O UNIV.	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tc-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-121

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
AT RICHMOND STREET
PHASE 71

CITY OF SAN DIEGO, CALIFORNIA
SHEET 121 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

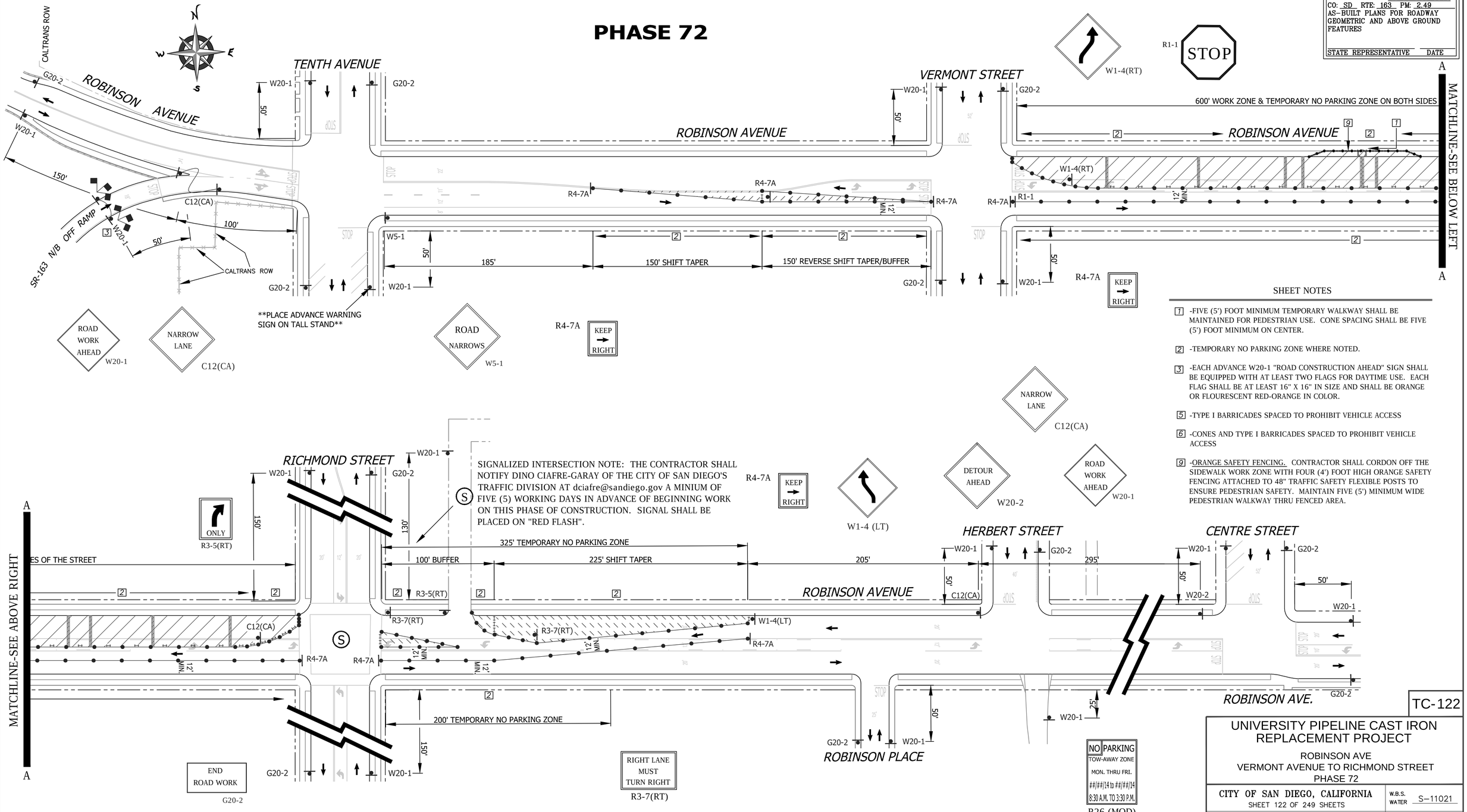
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T121-D

PHASE 72

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

1 -FIVE (5') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

WORK HOURS: **8:30 A.M. to 3:30 P.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVE. W/O 10th	25	N/A	N/A	150 FT.	25 FT
VERMONT/RICHMOND ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE:06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-122

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
VERMONT AVENUE TO RICHMOND STREET
PHASE 72

CITY OF SAN DIEGO, CALIFORNIA
SHEET 122 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

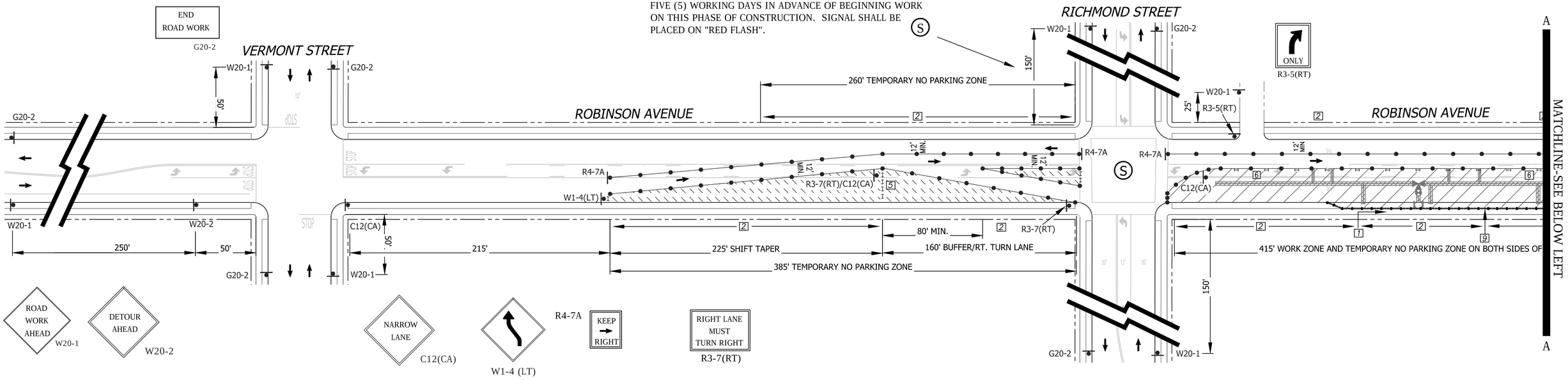
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

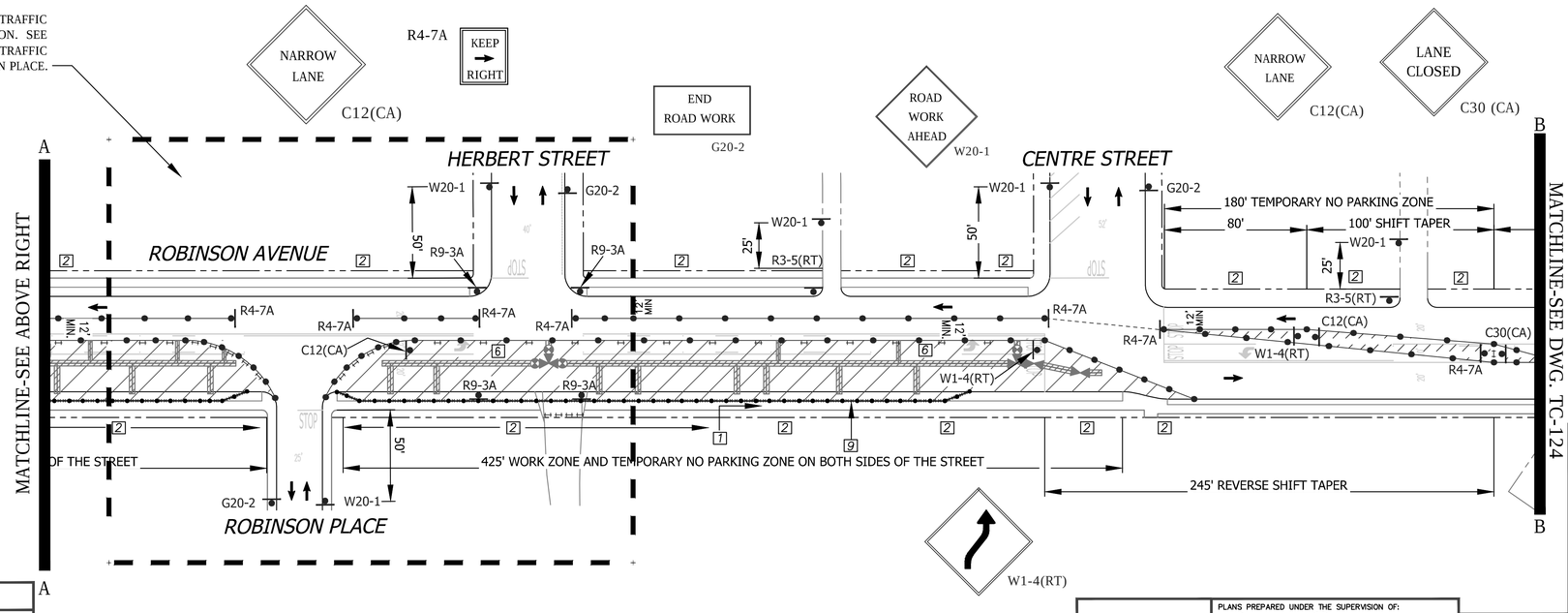
36656-T122-D

PHASE 73

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DETAIL "A" ON SHEET TC-122 FOR TRAFFIC CONTROL SETUP FOR THIS INTERSECTION. SEE DWG. TC-122 (LOWER RIGHT) FOR TRAFFIC CONTROL SETUP FOR ROBINSON PLACE.



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED.

[3] -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[9] -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	SEE DWG.	25 FT
HERBERT/CENTRE ST	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-123

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO HERBERT STREET
PHASE 73

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060b-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

CITY OF SAN DIEGO, CALIFORNIA
SHEET 123 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

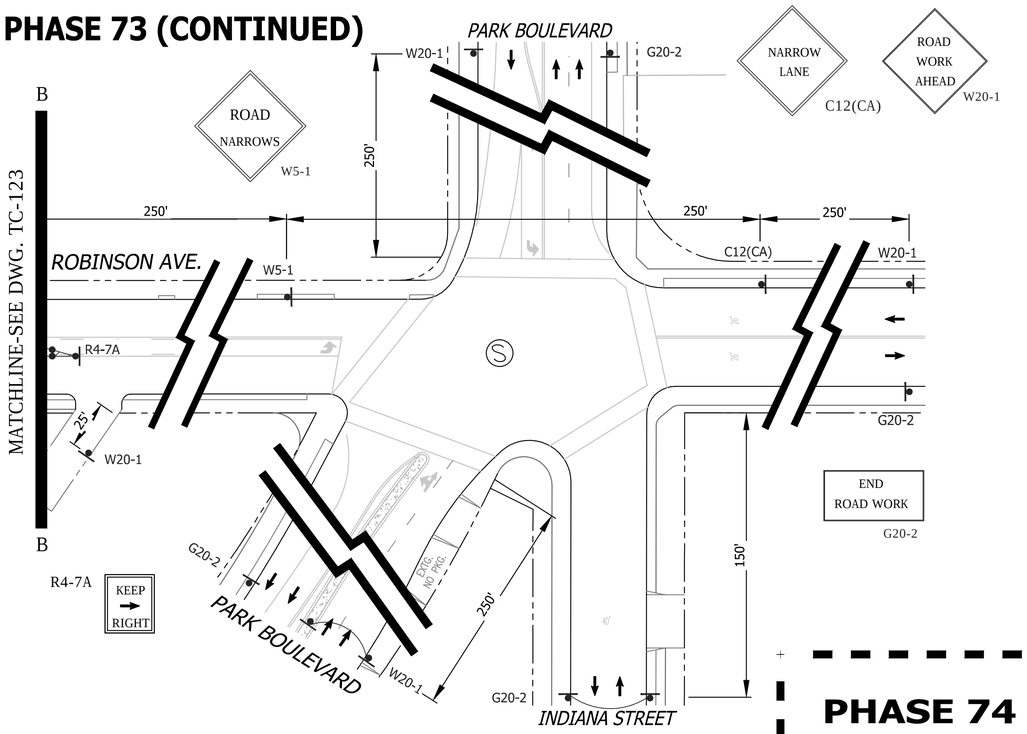
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T123-D

PHASE 73 (CONTINUED)



Ⓢ -SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

SHEET NOTES

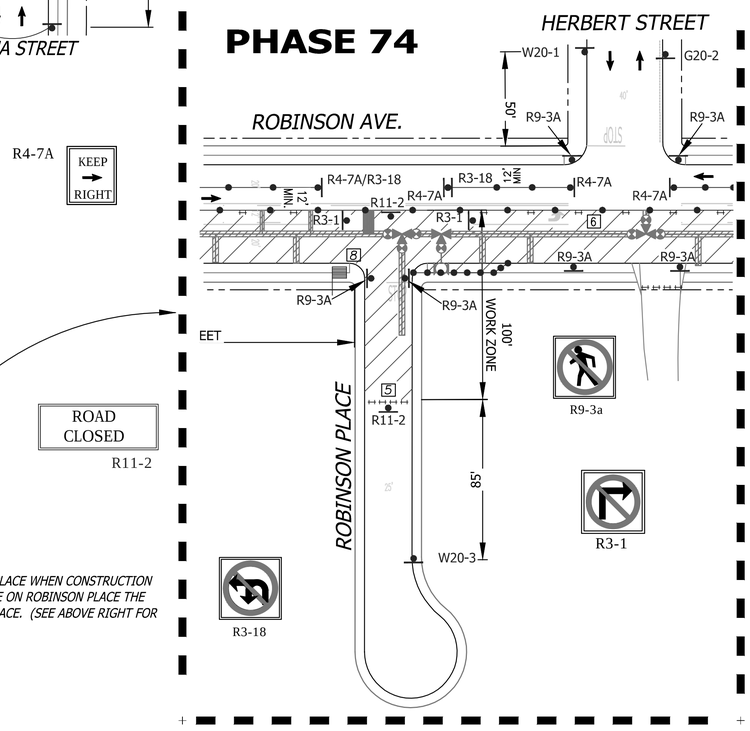
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY A SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT THRU OR AROUND THE WORK ZONE.

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

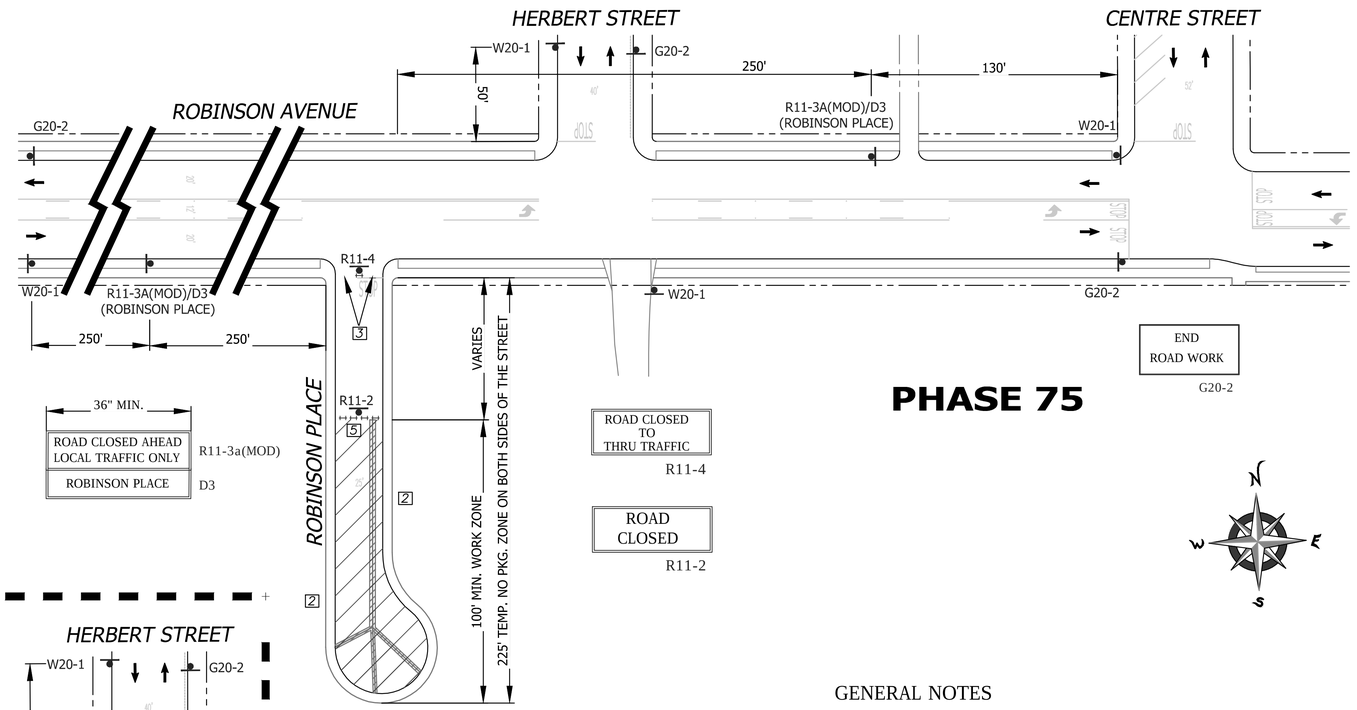
PHASE 74



DETAIL "A"

CONTRACTOR SHALL PROVIDE FOR LOCAL ACCESS TO ROBINSON PLACE WHEN CONSTRUCTION ALLOWS. ONCE TRENCH AND PIPELINE HAS CLEARED THE LIMIT LINE ON ROBINSON PLACE THE CONTRACTOR SHALL PLATE AND MAINTAIN ACCESS TO ROBINSON PLACE. (SEE ABOVE RIGHT FOR TRAFFIC CONTROL SETUP FOR ROBINSON PLACE.)

PHASE 75



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT/RICHMOND ST	25	N/A	N/A	150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-124

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO HEBERT STREET
PHASE 73, 74, & 75

CITY OF SAN DIEGO, CALIFORNIA
SHEET 124 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE

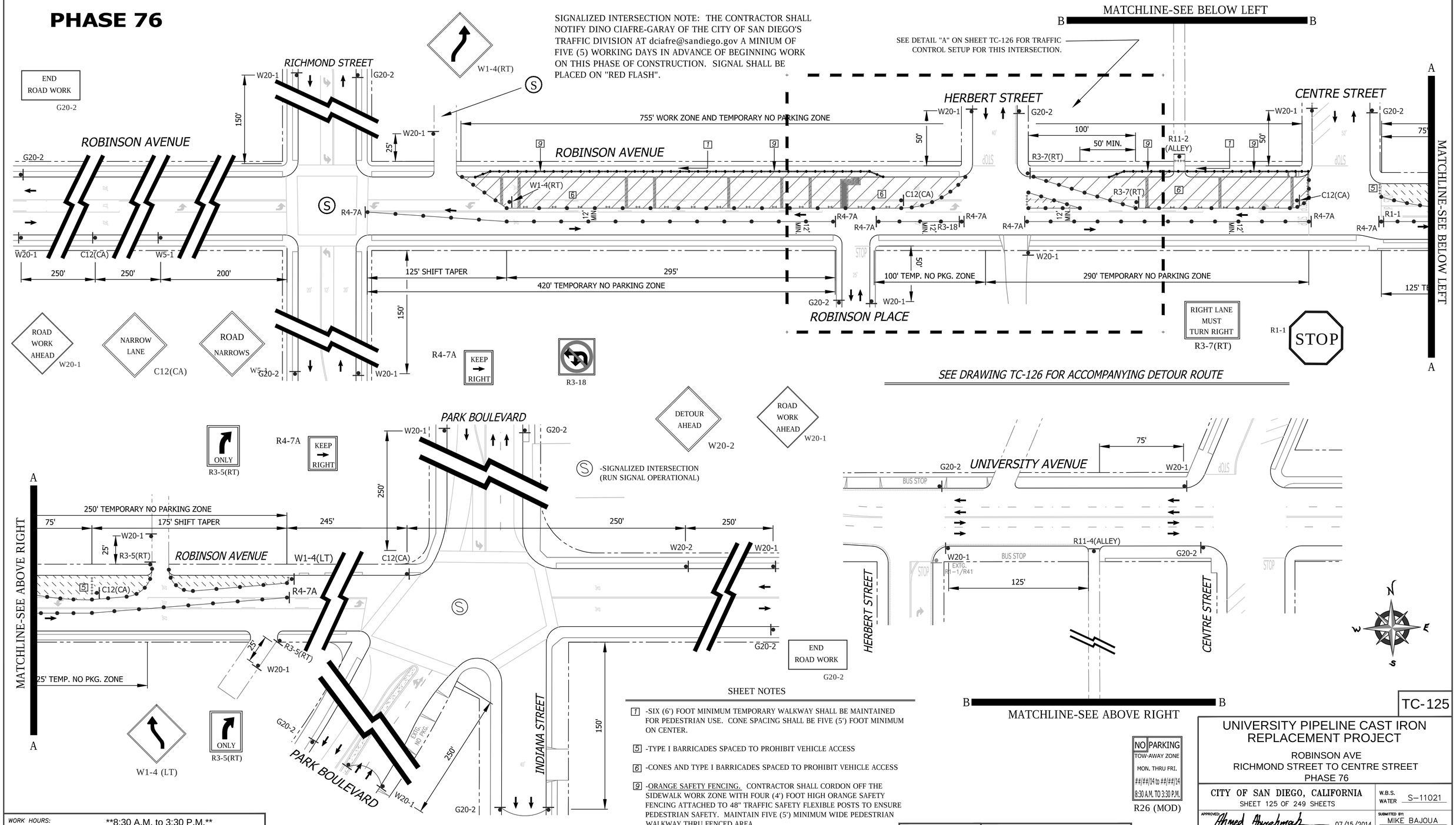
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T124-D

PHASE 76

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601D-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-125

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO CENTRE STREET
PHASE 76

CITY OF SAN DIEGO, CALIFORNIA
SHEET 125 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T125-D

PHASE 76 (CONTINUED)

ROAD WORK AHEAD W20-1

NARROW LANE C12(CA)

ROAD NARROWS W5-1

R4-7A KEEP → RIGHT

R9-3a

SHEET NOTES

7 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

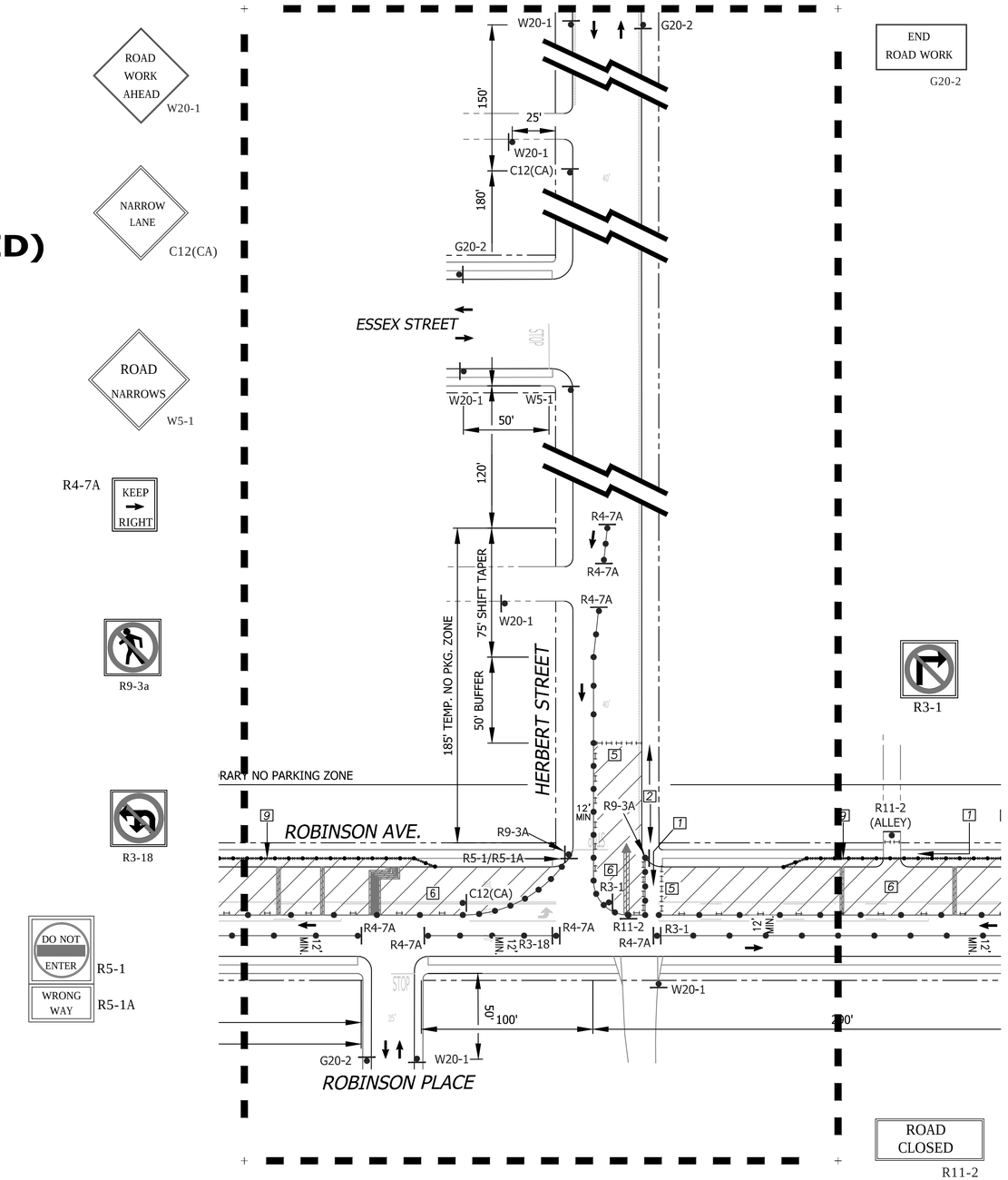
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



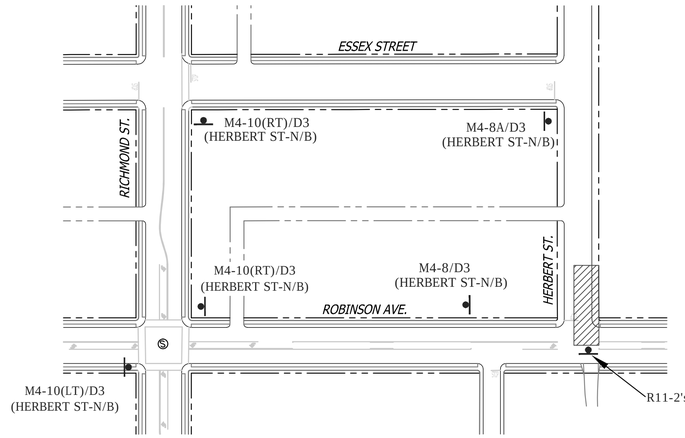
DETAIL "A"

(TRAFFIC CONTROL FOR LATERAL TIE-IN AT HERBERT STREET)

END ROAD WORK G20-2

DETOUR M4-10(RT) HERBERT ST - NORTHBOUND D3

END DETOUR M4-8a HERBERT ST - NORTHBOUND D3



DETOUR ROUTE

FOR DWG. TC-125 & TC-126

DETOUR M4-8 HERBERT ST - NORTHBOUND D3

R3-1

ALLEY CLOSED R11-2(ALLEY)

R3-18

DO NOT ENTER R5-1

WRONG WAY R5-1A

ROAD CLOSED R11-2

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT STREET	25	SEE DWG.		150 FT.	25 FT
ROBINSON AVE E/O 10th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-126

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVE
RICHMOND STREET TO CENTRE STREET
PHASE 76

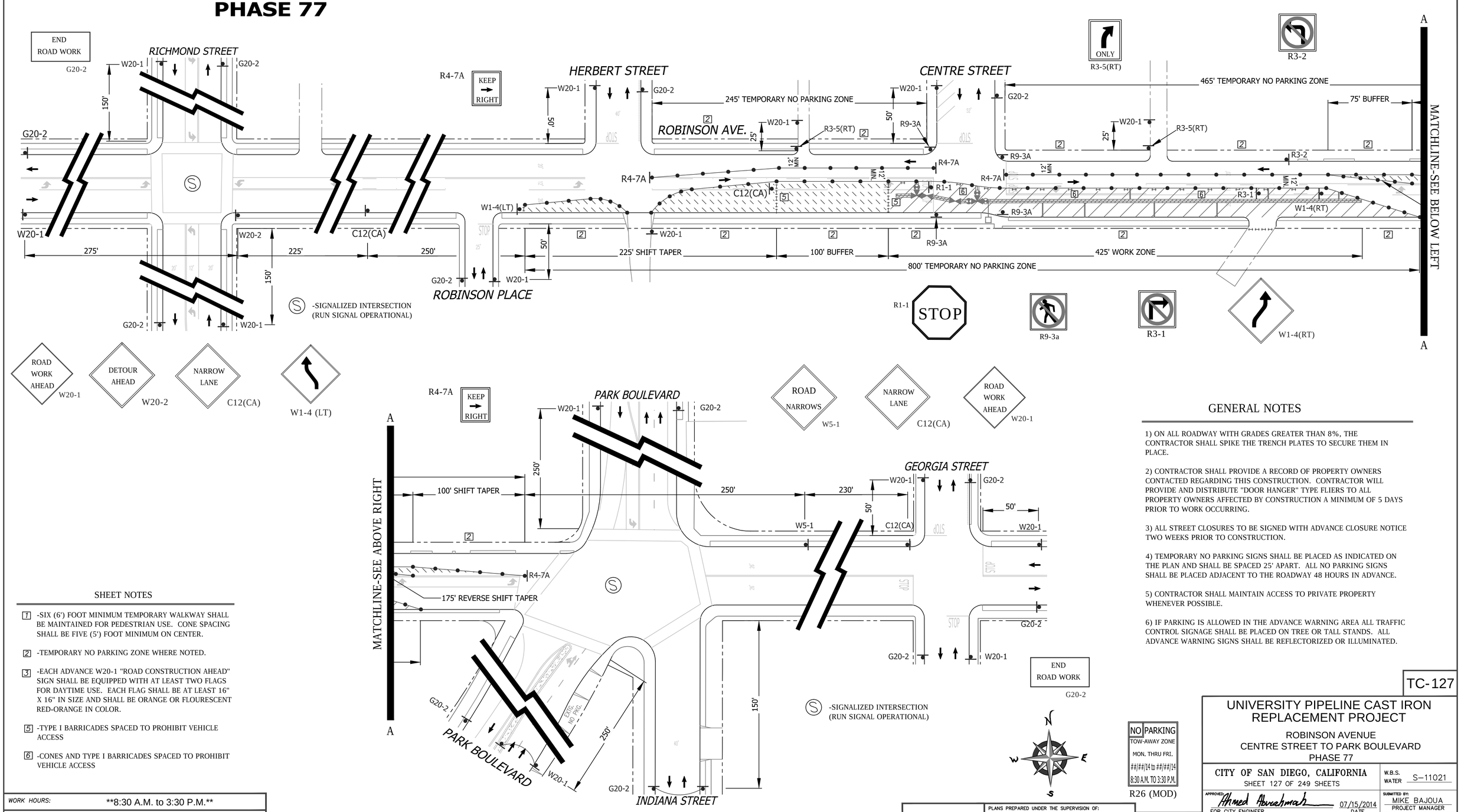
CITY OF SAN DIEGO, CALIFORNIA
SHEET 126 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T126-D

PHASE 77



SHEET NOTES

7 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED.

3 -EACH ADVANCE W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601b-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-127

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 77

CITY OF SAN DIEGO, CALIFORNIA
SHEET 127 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T127-D

PHASE 78

SHEET NOTES

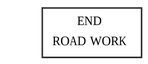
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

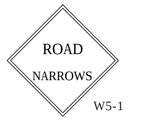
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

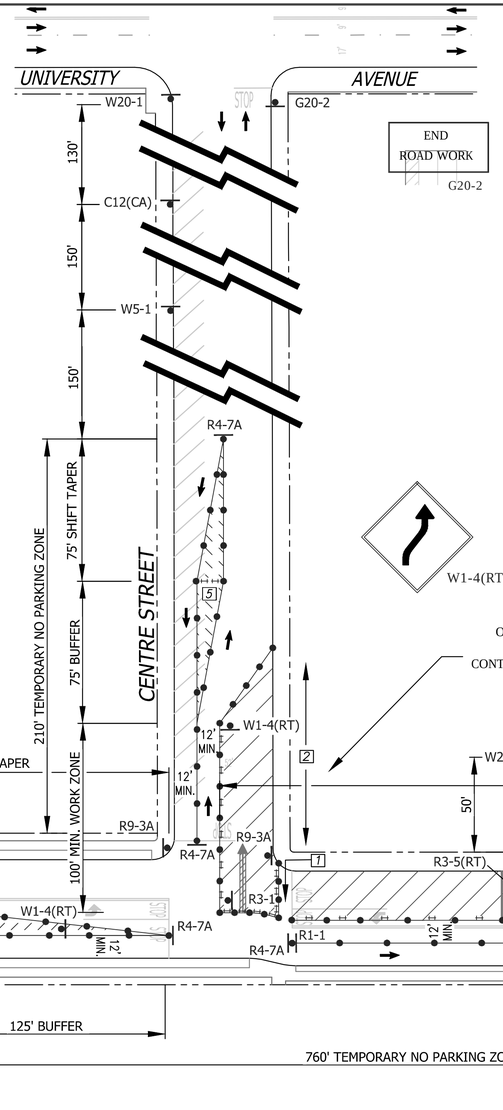
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

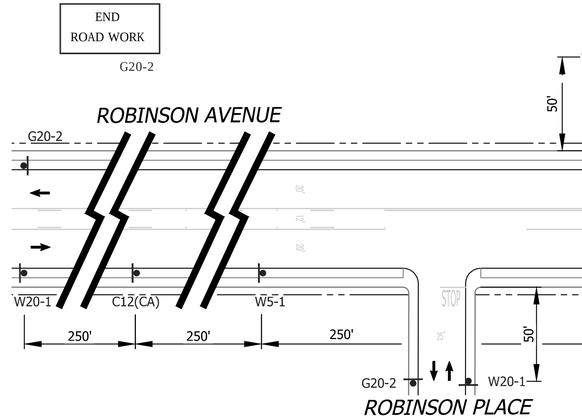
9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

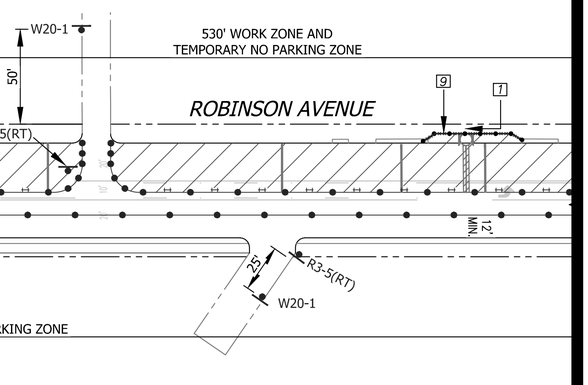


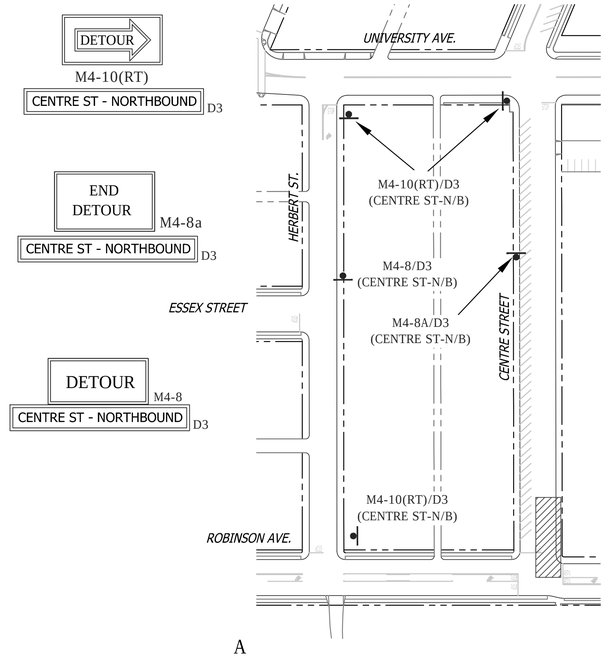




ONCE WORK IN THE CENTRE STREET INTERSECTION IS COMPLETE, THE CONTRACTOR SHALL DROP BACK TO THE SETUP SHOWN ON SHEET TC-129







A

MATCHLINE-SEE DWG. TC-129

A

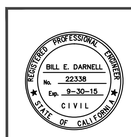
DETOUR ROUTE

FOR DWG. TC-128 & TC-129

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT



PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E Darnell 07/15/2014
DATE

BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/16/2014 | BY: DaB

SCALE: 1" = 40'

VERT: N/A
HOR: 1" = 40'

0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 78

CITY OF SAN DIEGO, CALIFORNIA
SHEET 128 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

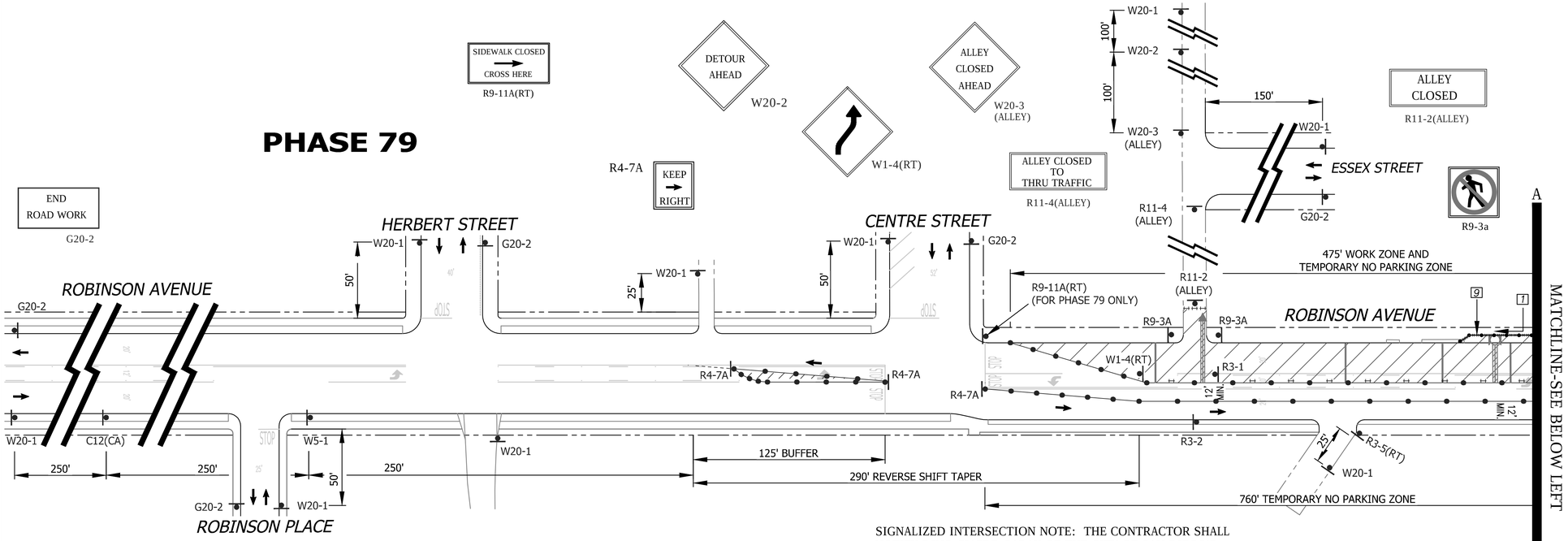
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T128-D

TC-128

PHASE 79



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RECALL".

R3-2

R3-1

ONLY
R3-5(RT)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

ROAD WORK AHEAD
W20-1

NARROW LANE
C12(CA)

ROAD NARROWS
W5-1

SHEET NOTES

7 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

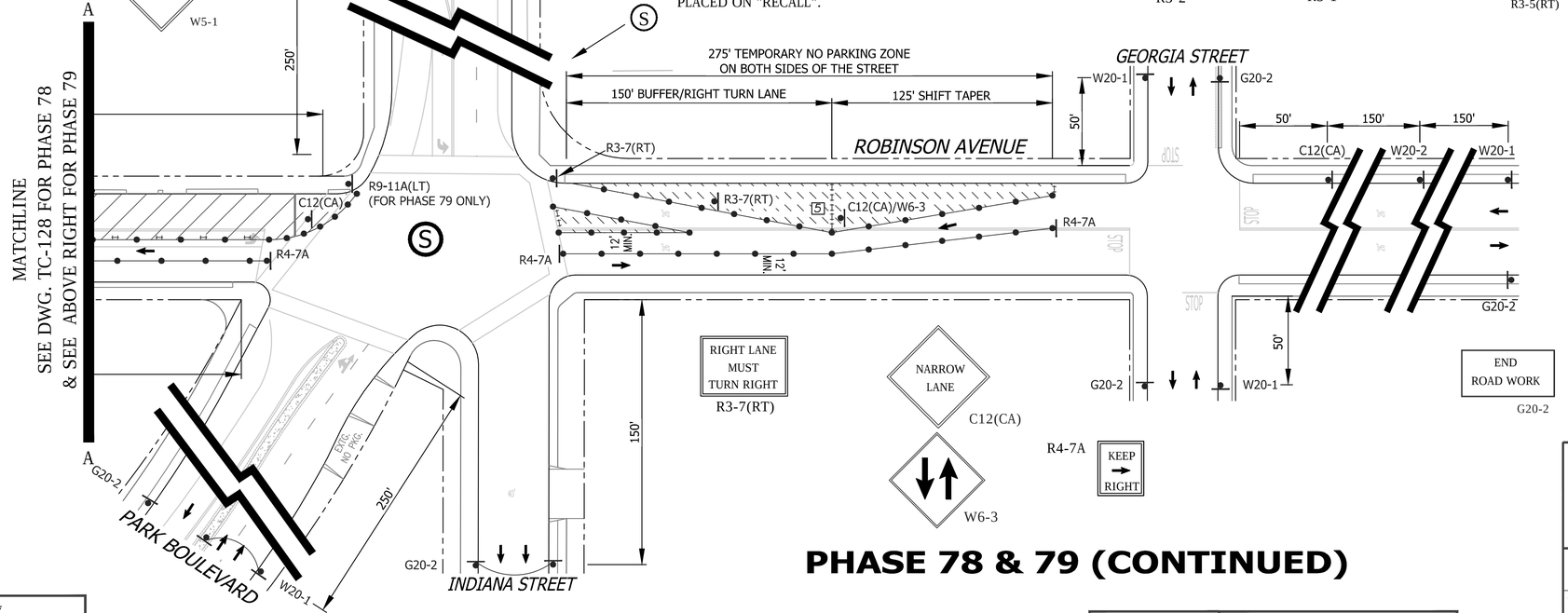
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -ORANGE SAFETY FENCING. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE WITH FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" TRAFFIC SAFETY FLEXIBLE POSTS TO ENSURE PEDESTRIAN SAFETY. MAINTAIN FIVE (5') MINIMUM WIDE PEDESTRIAN WALKWAY THRU FENCED AREA.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SIDEWALK CLOSED CROSS HERE
R9-11A(LT)



PHASE 78 & 79 (CONTINUED)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE:06/16/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-129

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 78 & 79

CITY OF SAN DIEGO, CALIFORNIA
SHEET 129 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T129-D

PHASE 80

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

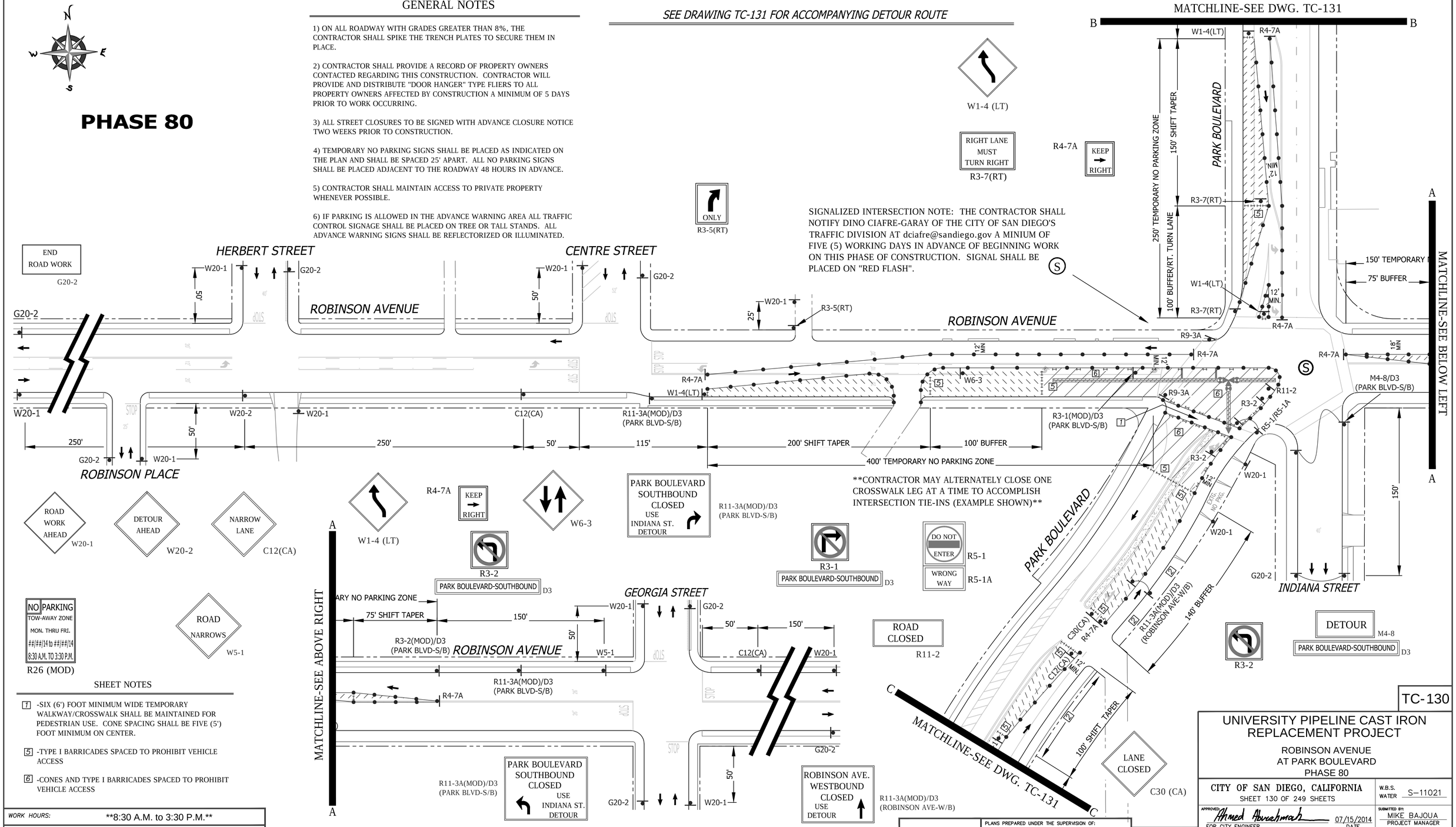
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SEE DRAWING TC-131 FOR ACCOMPANYING DETOUR ROUTE



SHEET NOTES

[7] -SIX (6') FOOT MINIMUM WIDE TEMPORARY WALKWAY/CROSSWALK SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130606b-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-130

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 80

CITY OF SAN DIEGO, CALIFORNIA
SHEET 130 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

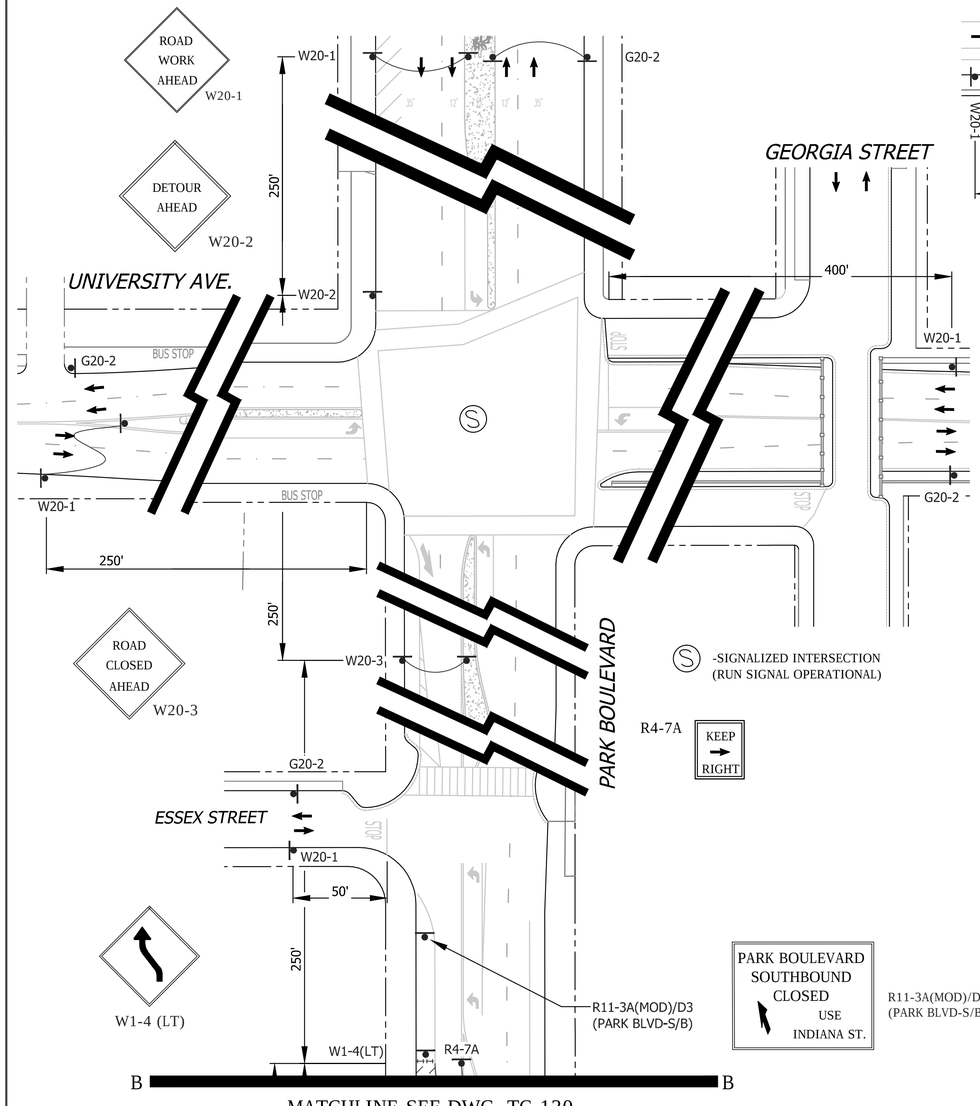
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

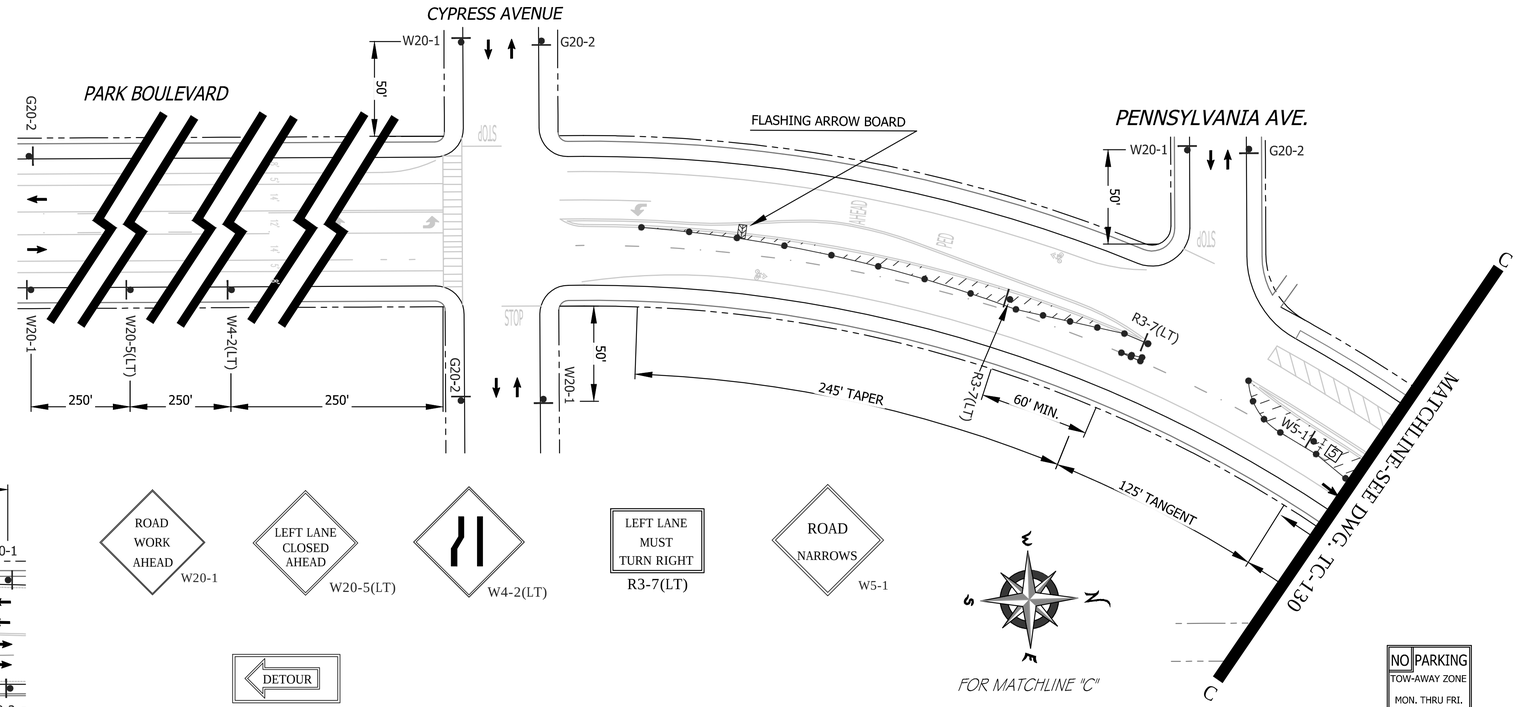
36656-T130-D

PHASE 80

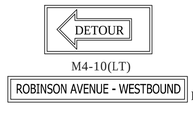
FOR MATCHLINE "B"

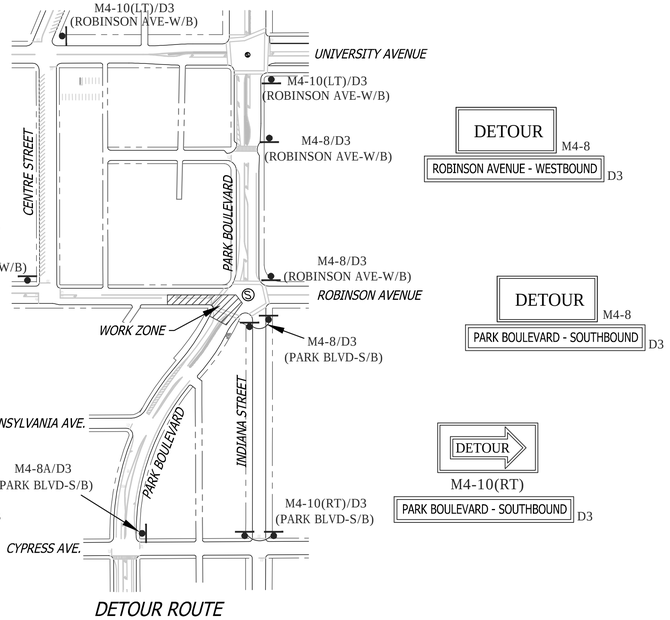


MATCHLINE-SEE DWG. TC-130



FOR MATCHLINE "C"





FOR DETOUR ROUTE
SCALE:NONE

R26 (MOD)

SHEET NOTES

1. -SIX (6') FOOT MINIMUM WIDE TEMPORARY WALKWAY/CROSSWALK SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVENUE	35	N/A	N/A	250 FT.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

DETOUR ROUTE

FOR DWGs. TC-130 & TC-131

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600C-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-131

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 80

CITY OF SAN DIEGO, CALIFORNIA
SHEET 131 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

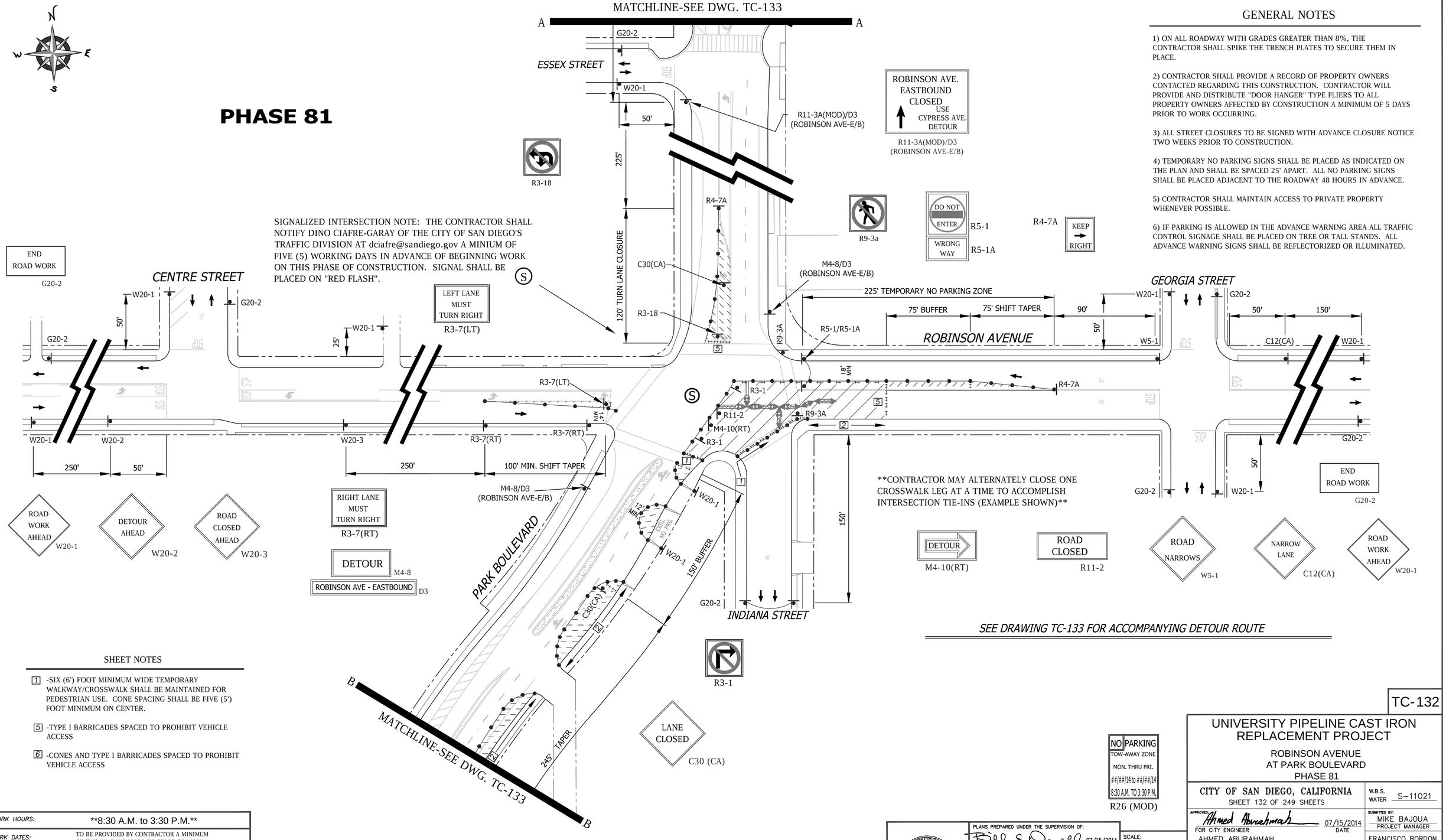
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T131-D

PHASE 81



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[7] -SIX (6') FOOT MINIMUM WIDE TEMPORARY WALKWAY/CROSSWALK SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SEE DRAWING TC-133 FOR ACCOMPANYING DETOUR ROUTE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060B-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-132

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 81

CITY OF SAN DIEGO, CALIFORNIA
SHEET 132 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

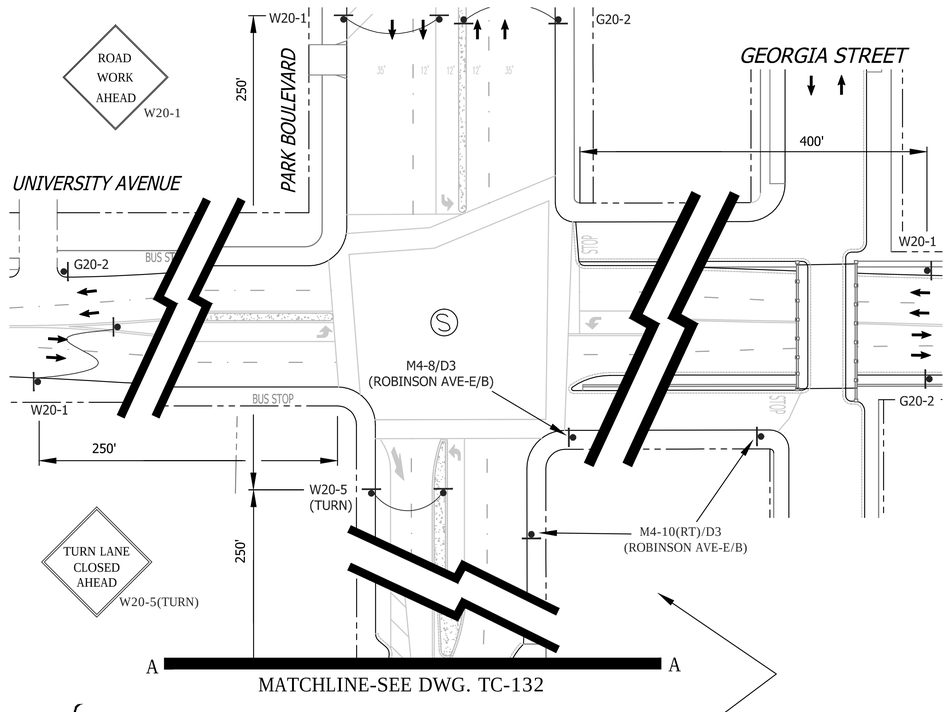
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T132-D



Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

FOR MATCHLINE "A"

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

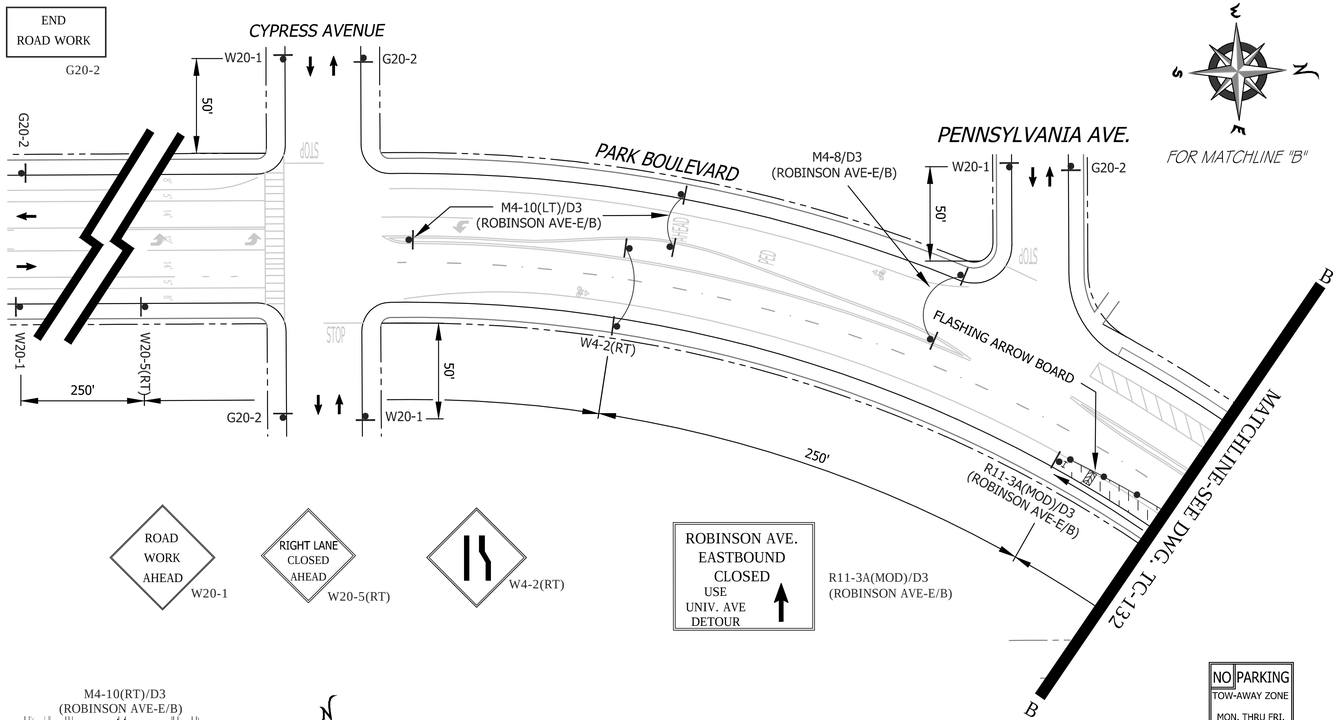
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

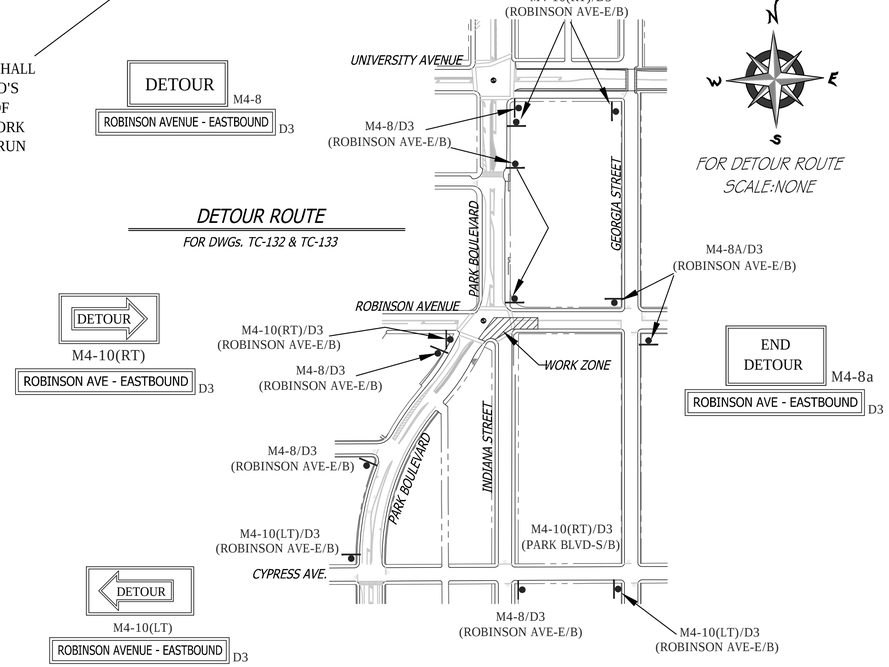
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVENUE	35	N/A	N/A	250 FT.	25 FT
ROBINSON AVENUE	35	SEE DWG.		250 FT.	25 FT





FOR DETOUR ROUTE
SCALE:NONE

PHASE 81 (CONTINUED)

TC-133

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 81

CITY OF SAN DIEGO, CALIFORNIA
SHEET 133 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T133-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 82

SEE DRAWING TC-135 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

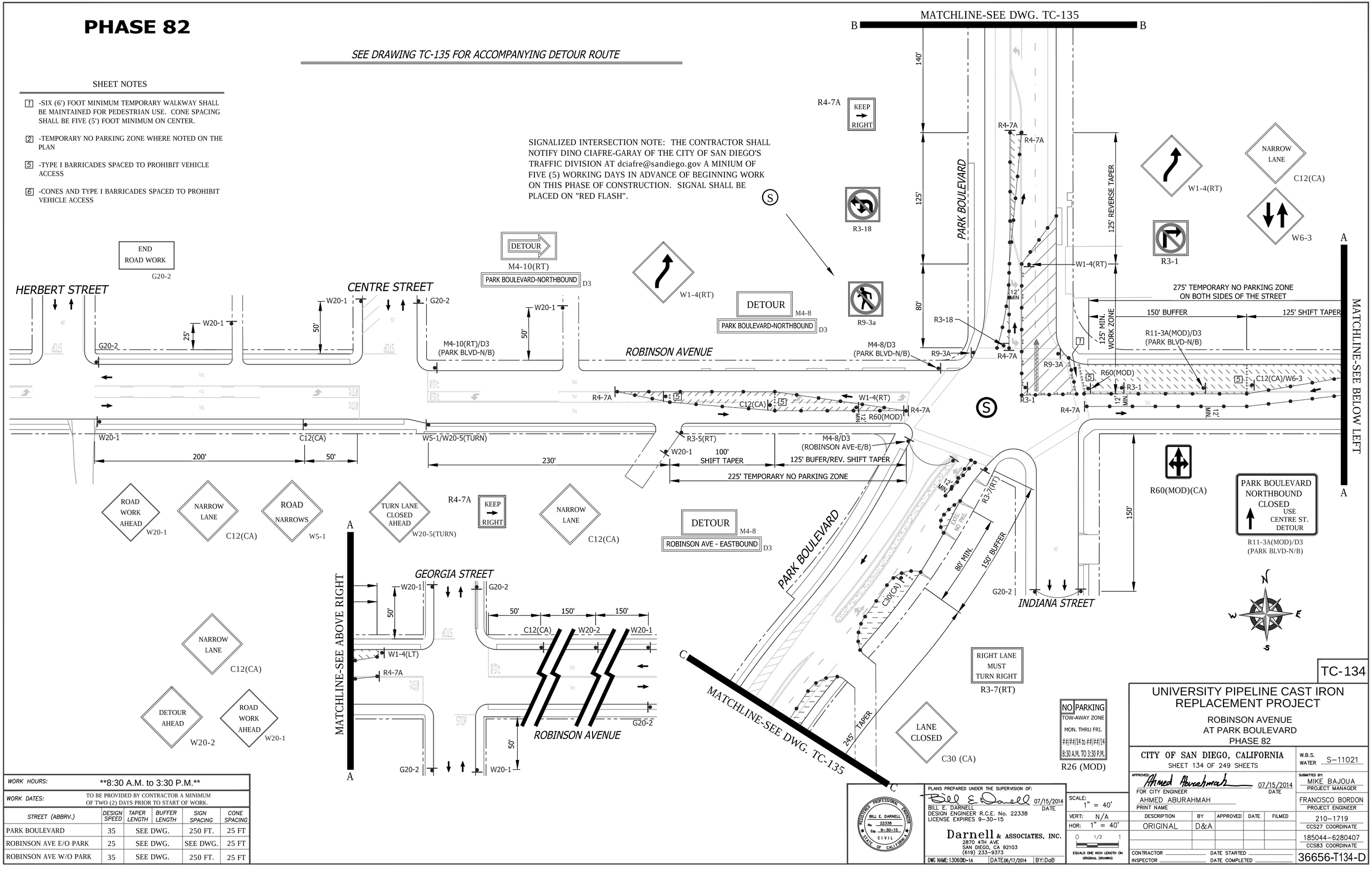
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
PARK BOULEVARD	35	SEE DWG.	250 FT.	25 FT	25 FT
ROBINSON AVE E/O PARK	25	SEE DWG.	SEE DWG.	25 FT	25 FT
ROBINSON AVE W/O PARK	35	SEE DWG.	250 FT.	25 FT	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-134

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 82

CITY OF SAN DIEGO, CALIFORNIA
SHEET 134 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

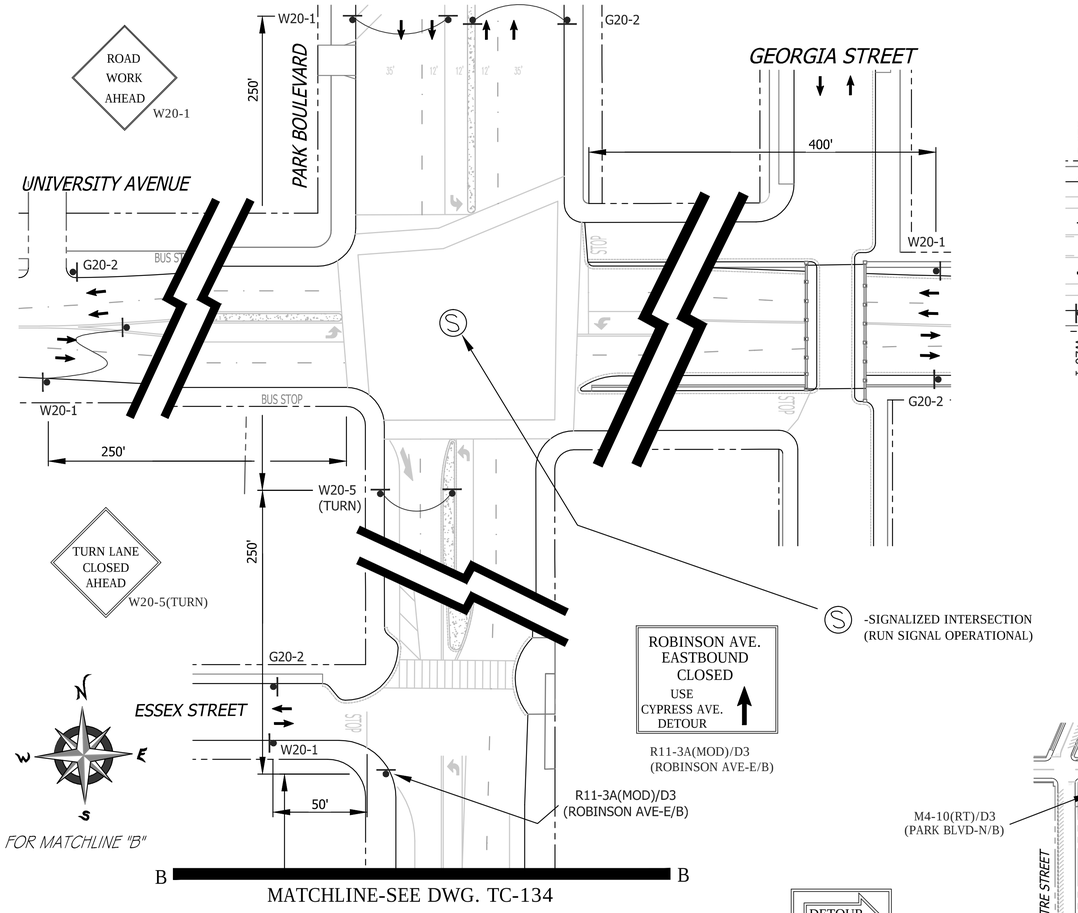
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

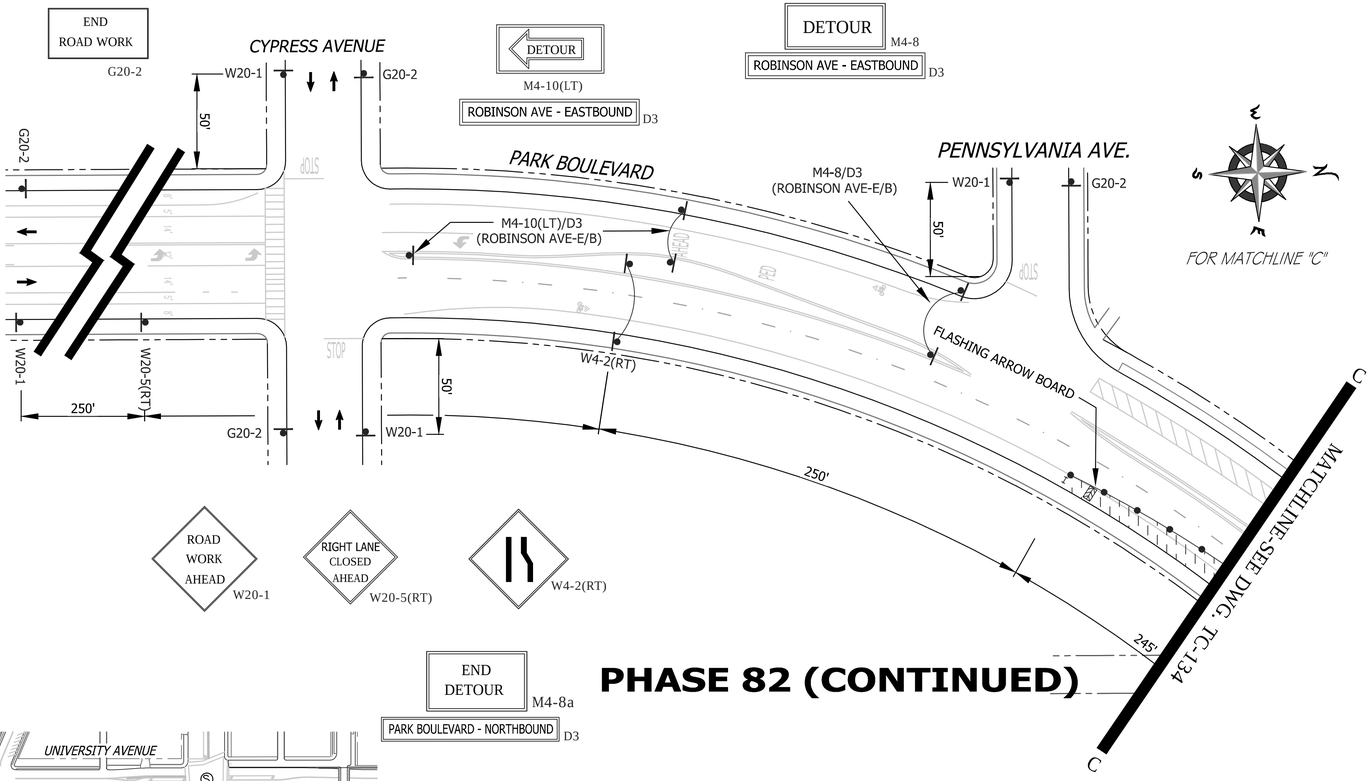
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

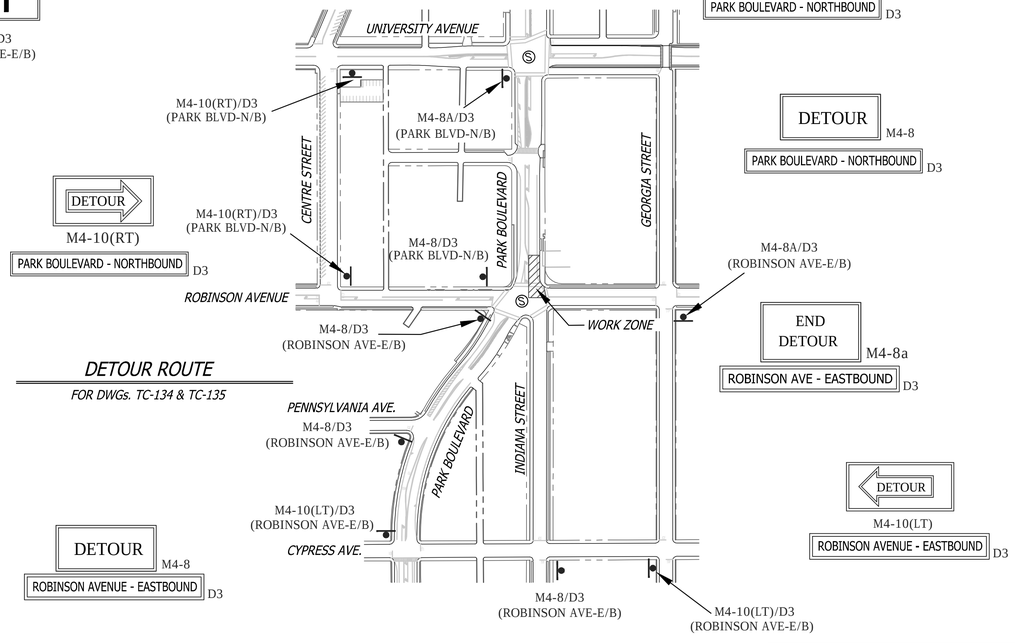
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T134-D

PHASE 82 (CONTINUED)







FOR DETOUR ROUTE
SCALE:NONE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVENUE	35	N/A	N/A	250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-135

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

ROBINSON AVENUE
AT PARK BOULEVARD
PHASE 82

CITY OF SAN DIEGO, CALIFORNIA
SHEET 135 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

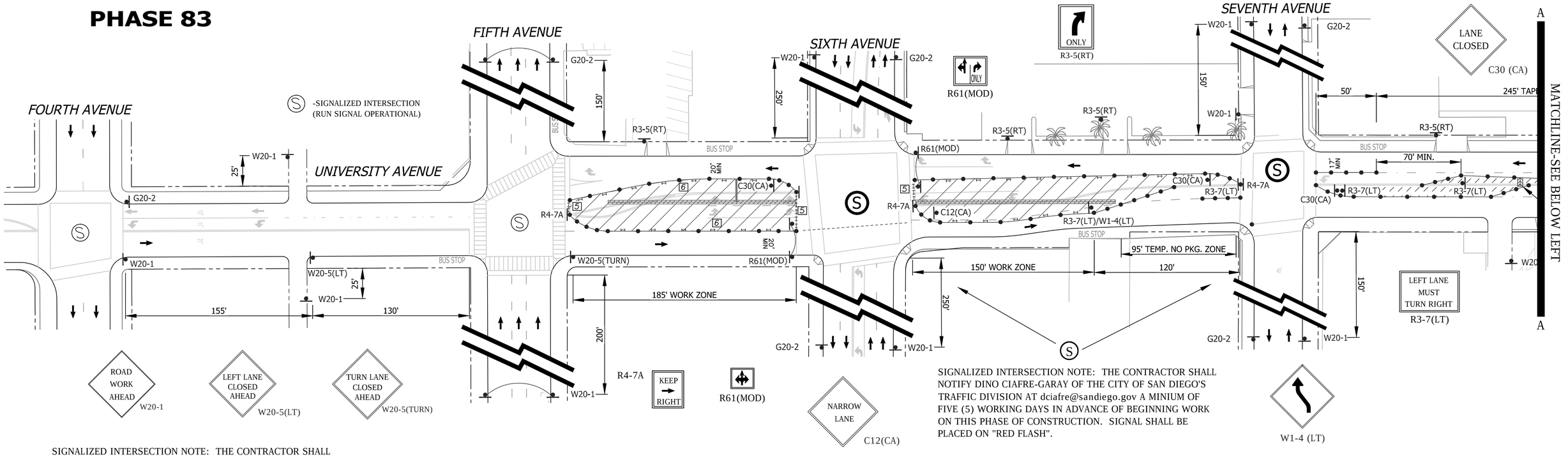
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

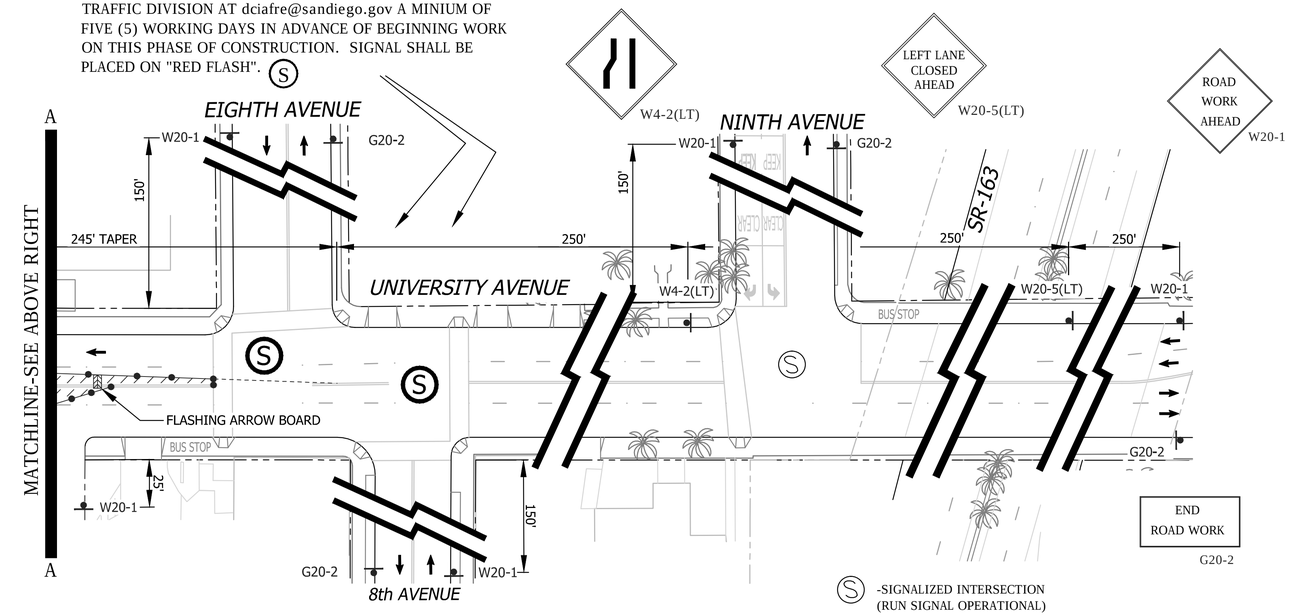
36656-T135-D

PHASE 83



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH". (S)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-136

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 83

CITY OF SAN DIEGO, CALIFORNIA
SHEET 136 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T136-D

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

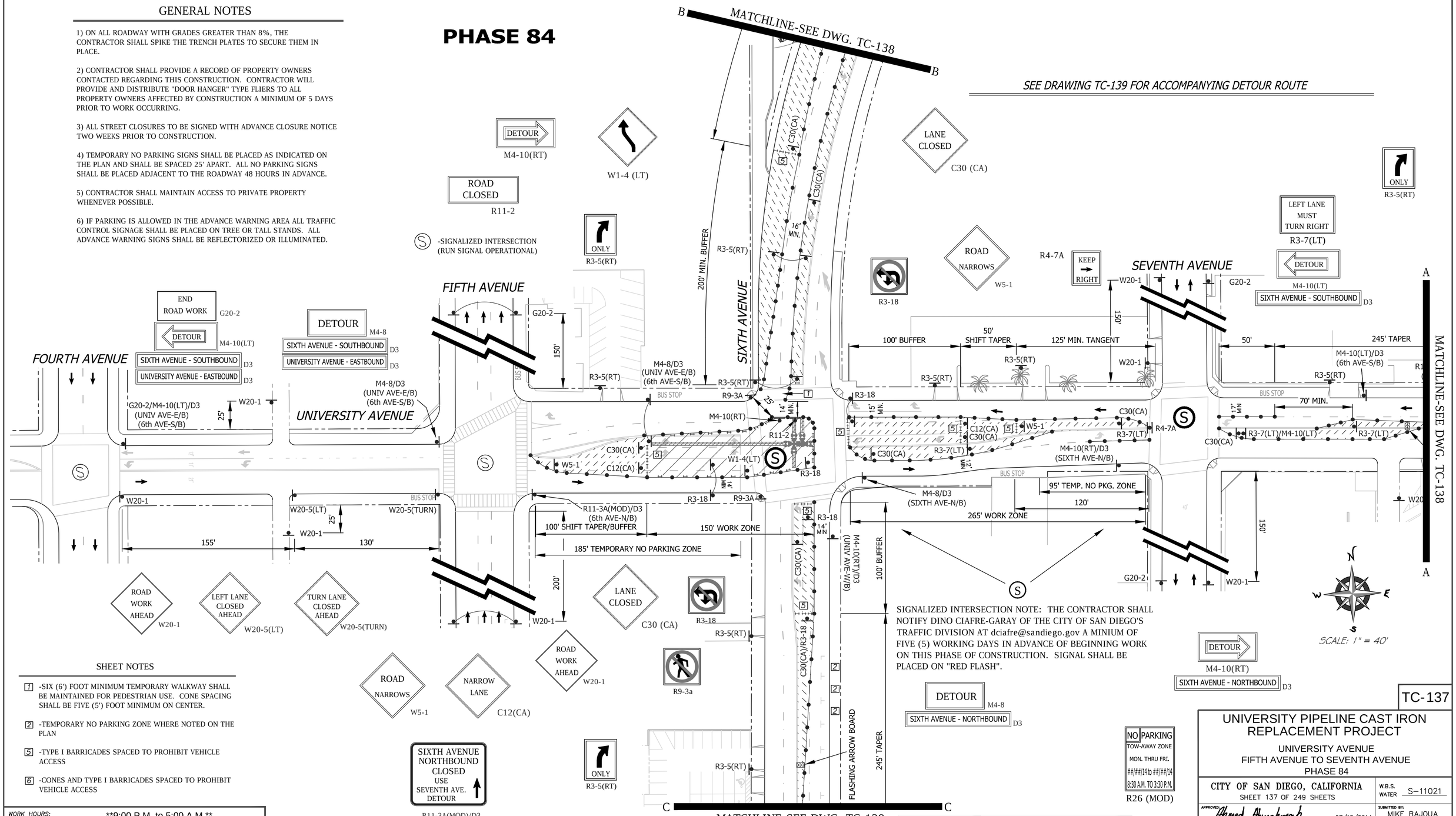
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PHASE 84



SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600D-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-137

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 84

CITY OF SAN DIEGO, CALIFORNIA
SHEET 137 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

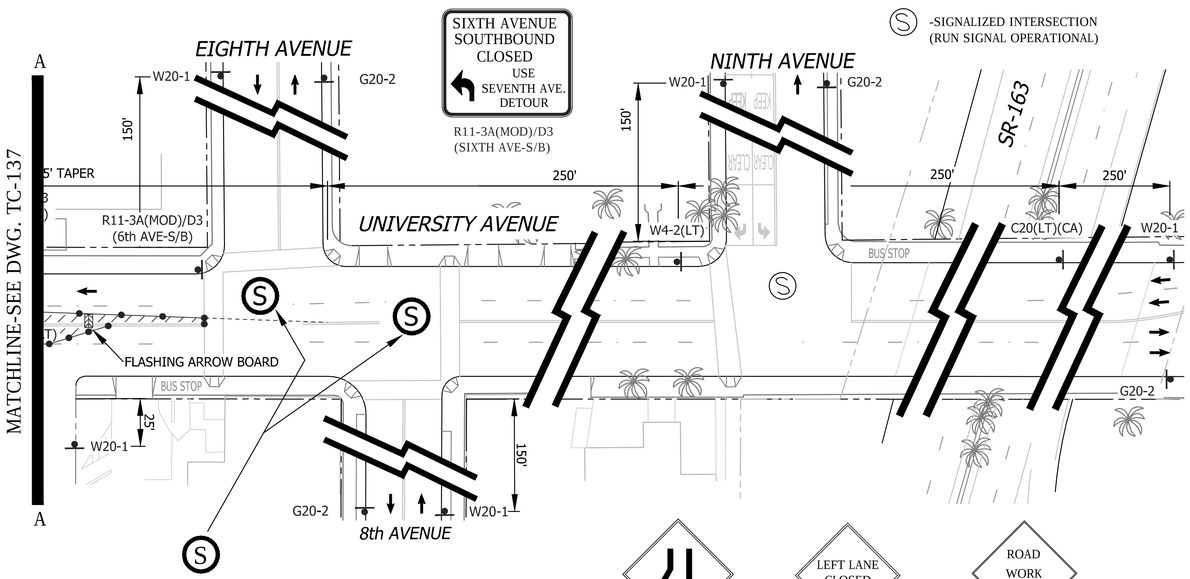
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T137-D



FOR MATCHLINE "A"
SCALE: 1" = 40'

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

W4-2(LT)

LEFT LANE CLOSED AHEAD
C20(LT)(CA)

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

3 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 84 (CONTINUED)

SEE DRAWING TC-139 FOR ACCOMPANYING DETOUR ROUTE

RIGHT LANE CLOSED AHEAD
C20(RT)(CA)

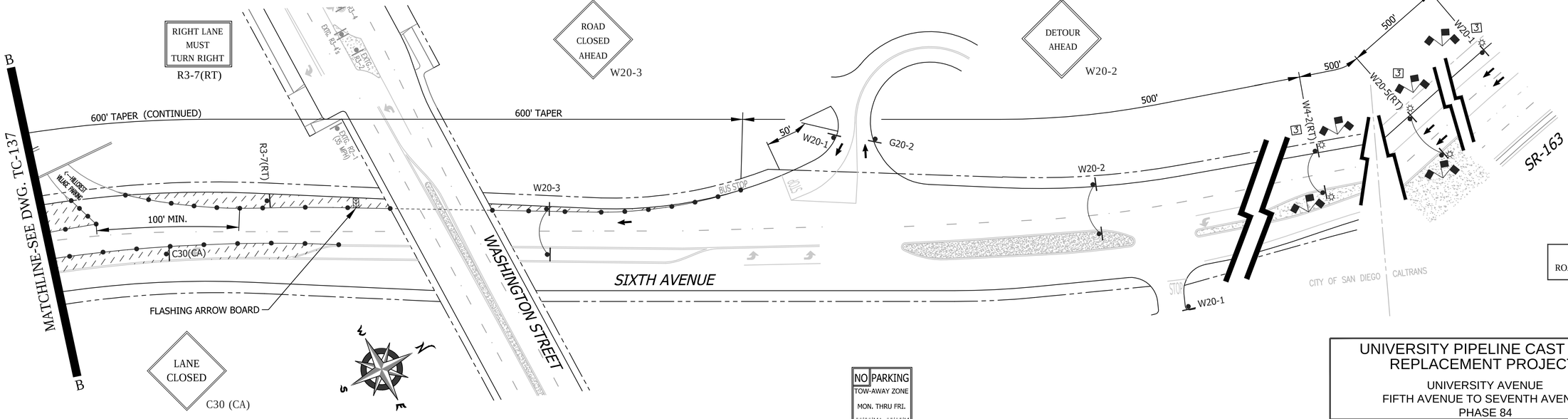
ROAD WORK AHEAD
W20-1

W4-2(RT)

RIGHT LANE MUST TURN RIGHT
R3-7(RT)

ROAD CLOSED AHEAD
W20-3

DETOUR AHEAD
W20-2



LANE CLOSED
C30 (CA)

FOR MATCHLINE "B"
SCALE: 1" = 40'

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

END ROAD WORK
G20-2

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	45	SEE DWG.		500 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVENUE	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601c-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-138

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 84

CITY OF SAN DIEGO, CALIFORNIA
SHEET 138 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

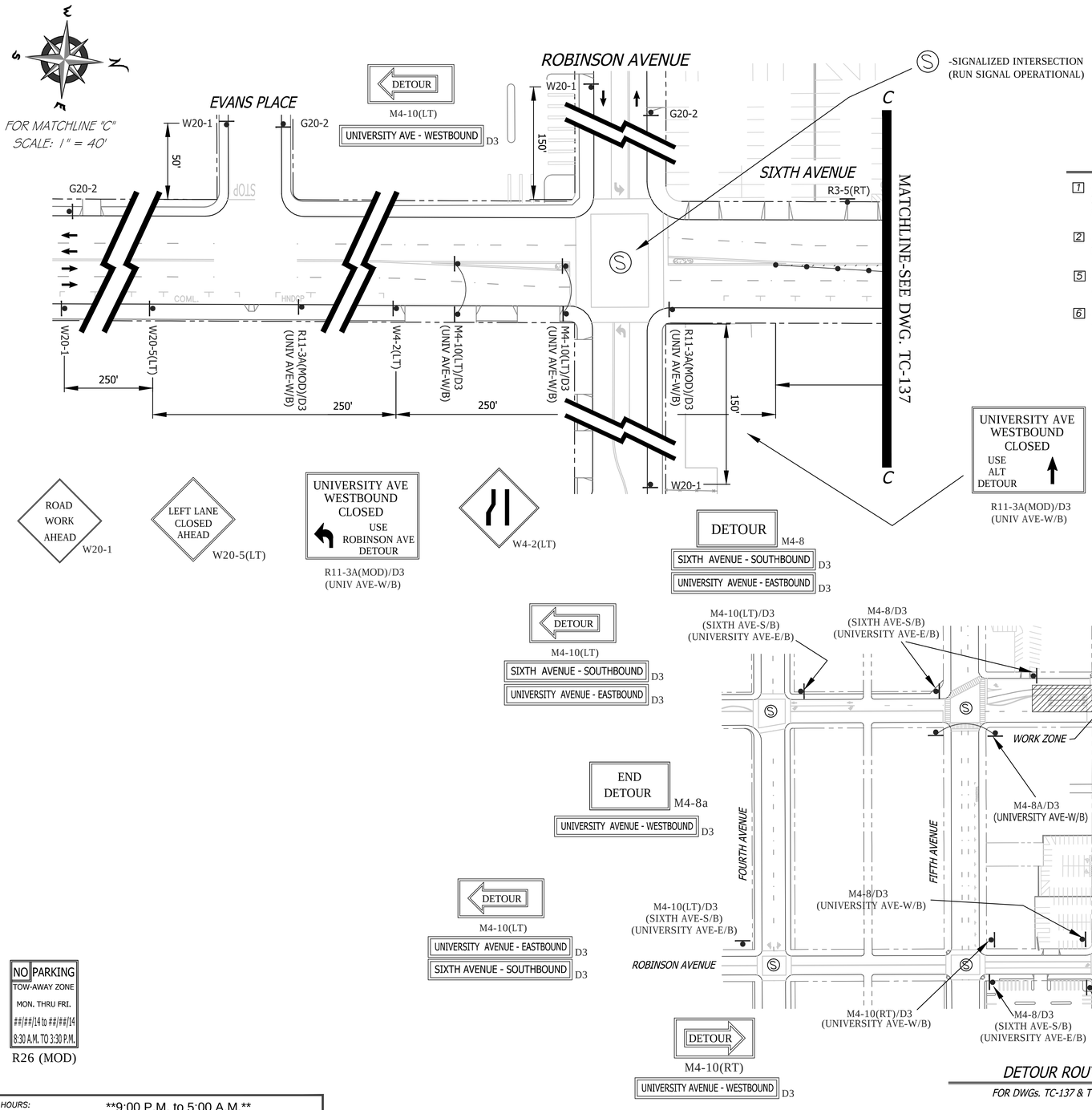
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T138-D



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[7] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

PHASE 84 (CONTINUED)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060b-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-139

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 84

CITY OF SAN DIEGO, CALIFORNIA
SHEET 139 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T139-D

PHASE 85

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

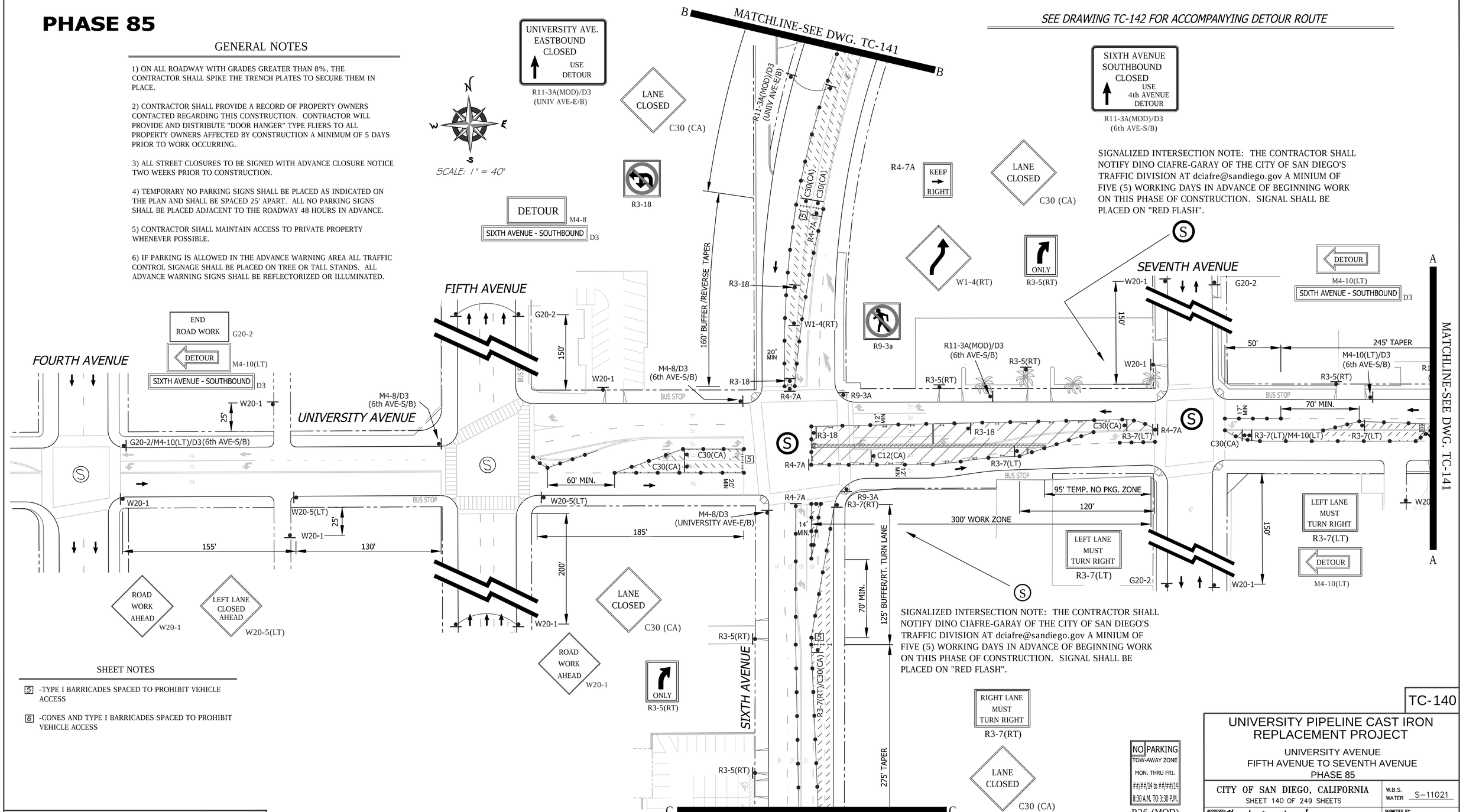
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

TC-140

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 85

CITY OF SAN DIEGO, CALIFORNIA
SHEET 140 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T140-D

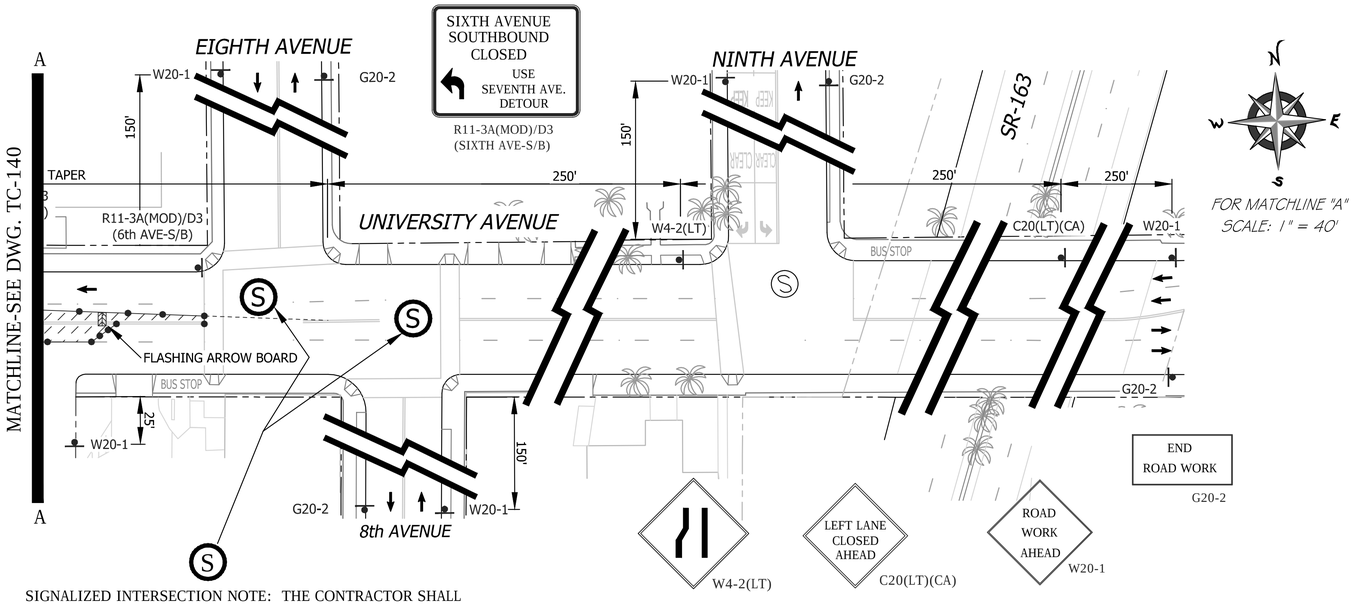
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/17/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



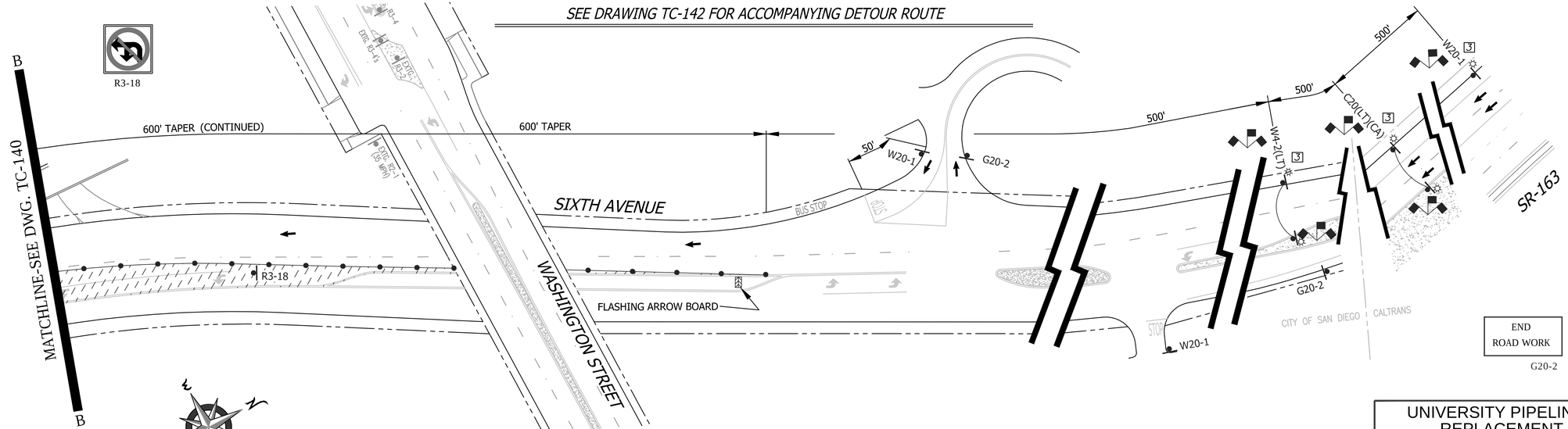
FOR MATCHLINE "A"
SCALE: 1" = 40'

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

PHASE 85 (CONTINUED)

W4-2(LT) LEFT LANE CLOSED AHEAD C20(LT)(CA) ROAD WORK AHEAD W20-1

SEE DRAWING TC-142 FOR ACCOMPANYING DETOUR ROUTE



FOR MATCHLINE "B"
SCALE: 1" = 40'

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	45	SEE DWG.		500 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVENUE	35	SEE DWG.		250 FT.	25 FT

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

3 -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130609-1A | DATE:06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-141

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 85

CITY OF SAN DIEGO, CALIFORNIA
SHEET 141 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

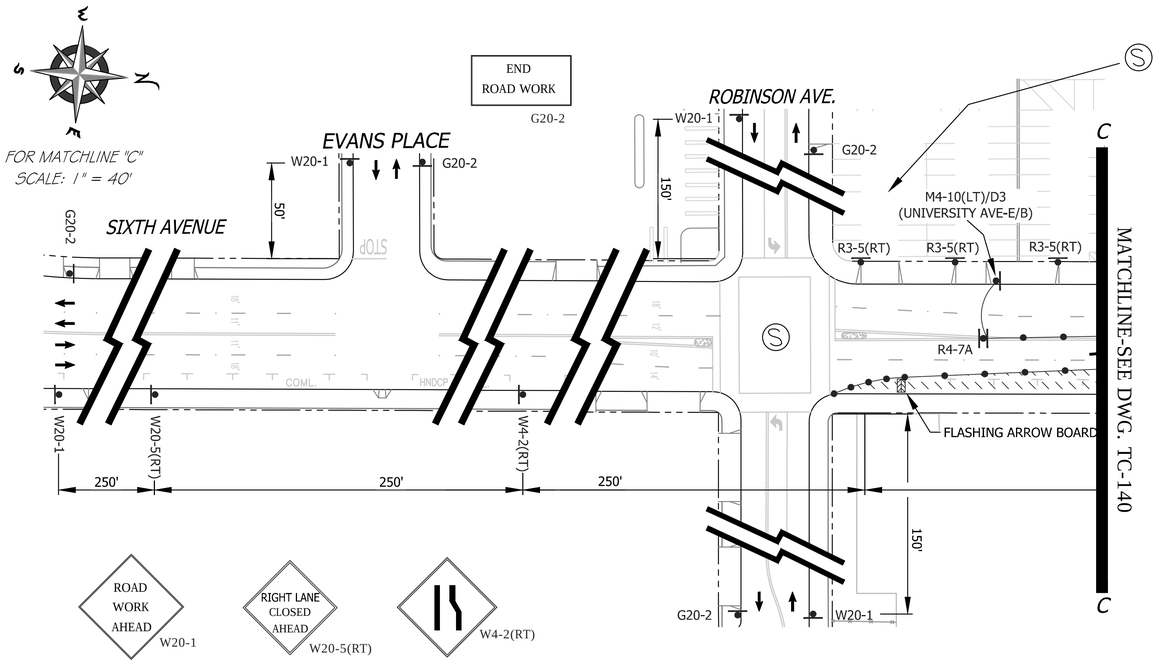
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T141-D



FOR MATCHLINE "C"
SCALE: 1" = 40'

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.

DETOUR
M4-10(LT)
UNIVERSITY AVENUE - EASTBOUND D3

ONLY
R3-5(RT)

R4-7A KEEP → RIGHT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

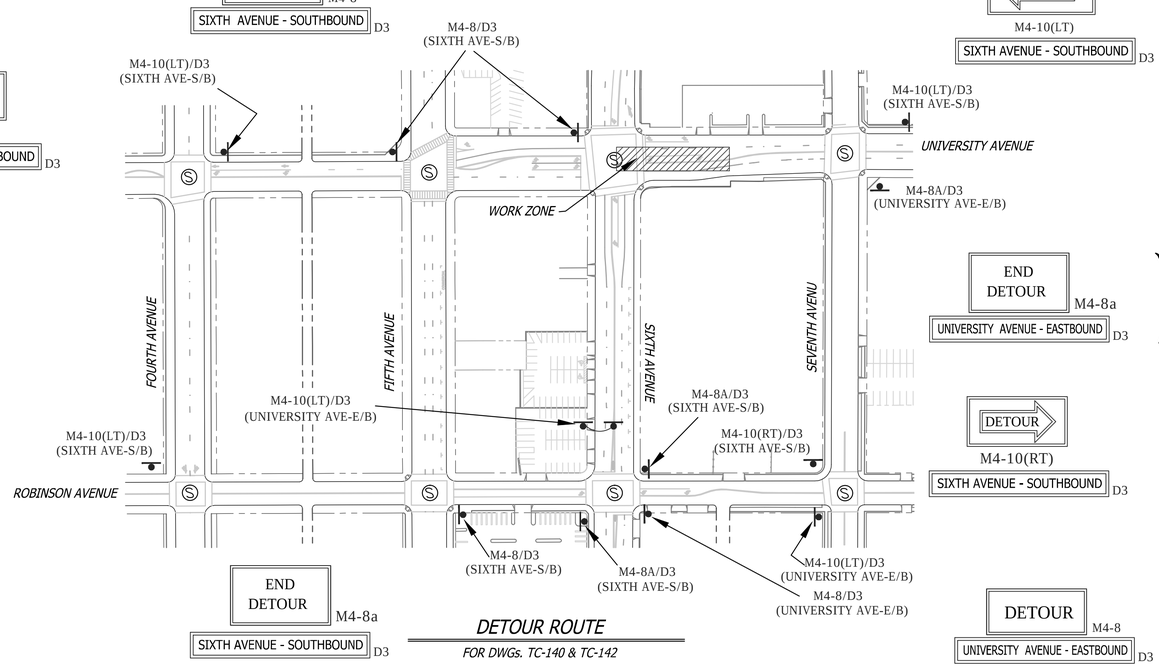
PHASE 85 (CONTINUED)

DETOUR
M4-8
SIXTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(LT)
SIXTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(LT)
SIXTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(LT)
SIXTH AVENUE - SOUTHBOUND D3



END DETOUR
M4-8a
SIXTH AVENUE - SOUTHBOUND D3

DETOUR ROUTE
FOR DWGs. TC-140 & TC-142

END DETOUR
M4-8a
UNIVERSITY AVENUE - EASTBOUND D3

DETOUR
M4-10(RT)
SIXTH AVENUE - SOUTHBOUND D3

DETOUR
M4-8
UNIVERSITY AVENUE - EASTBOUND D3

FOR DETOUR ROUTE
SCALE: NONE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-142

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 85

CITY OF SAN DIEGO, CALIFORNIA
SHEET 142 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE

185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T142-D

PHASE 86

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

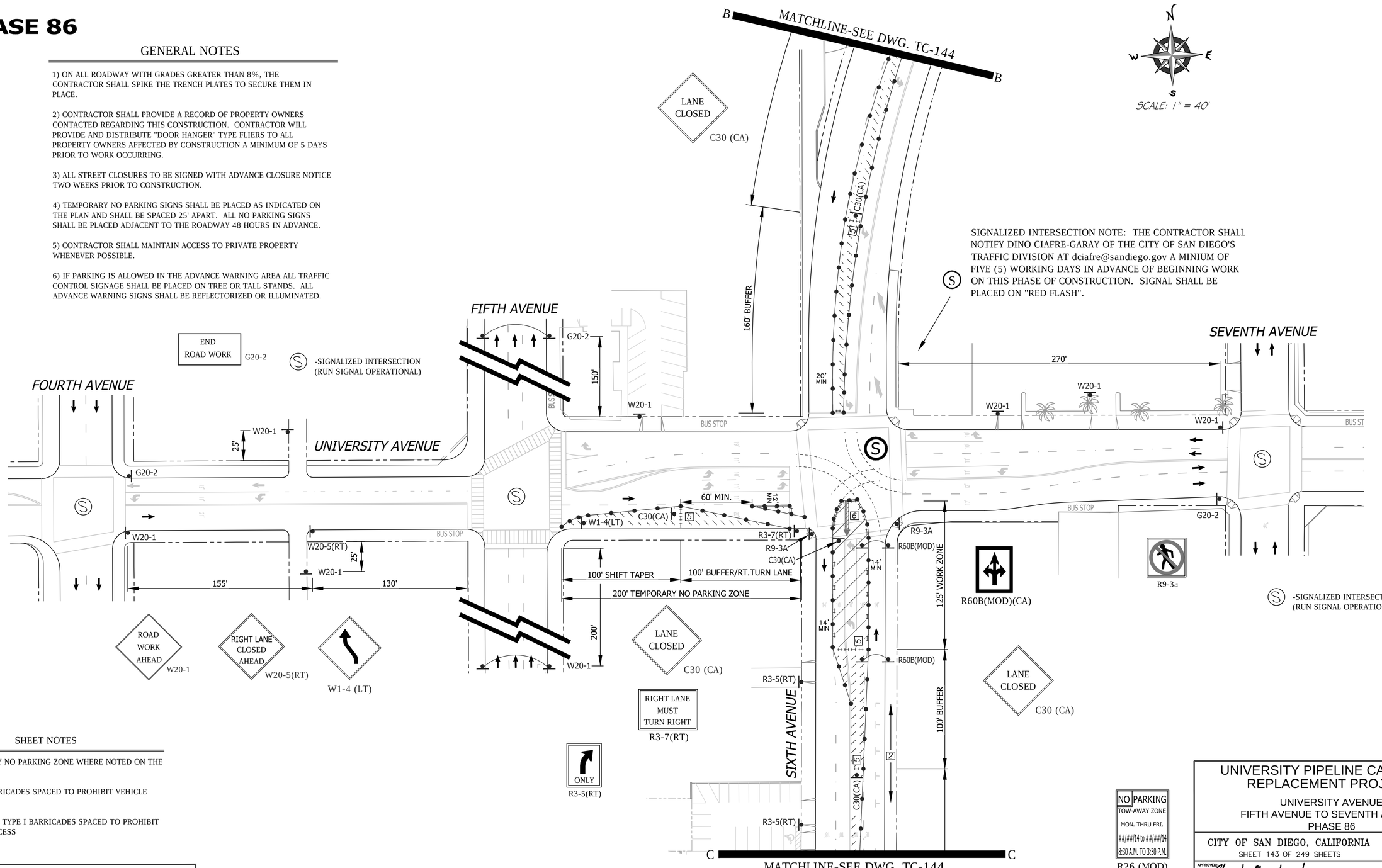
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-1A | DATE06/17/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-143

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 86

CITY OF SAN DIEGO, CALIFORNIA
SHEET 143 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

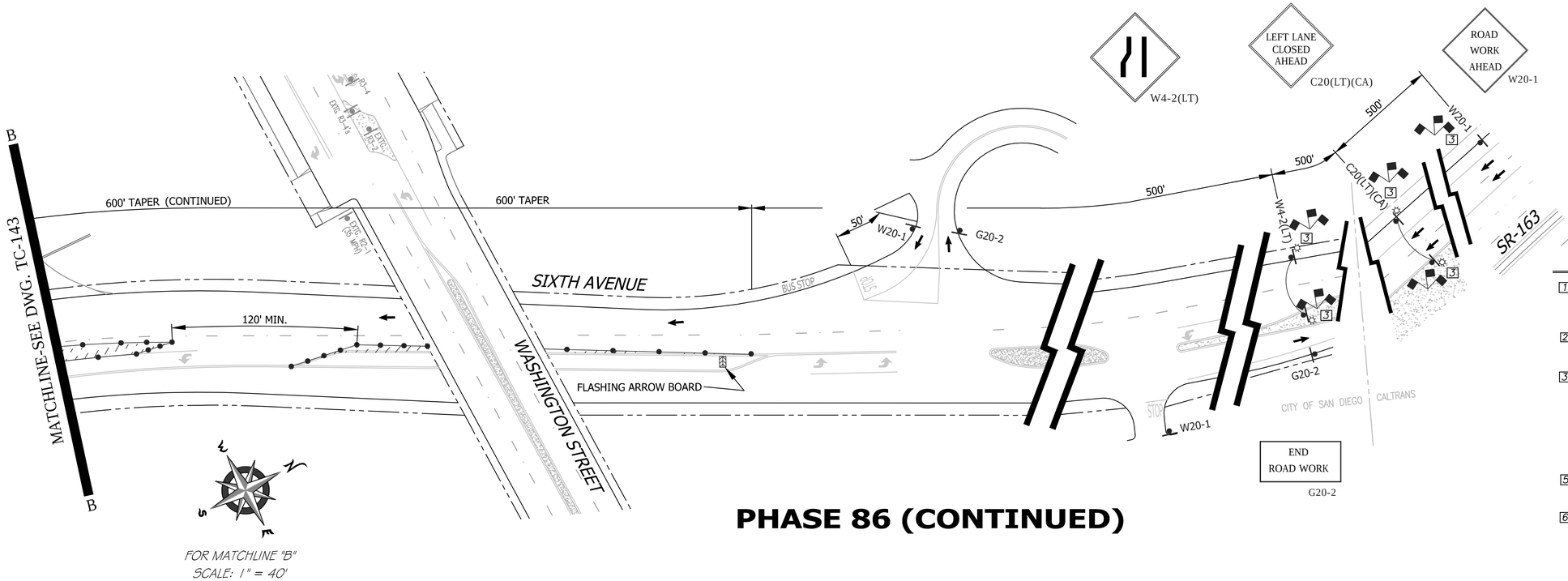
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T143-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



FOR MATCHLINE "B"
SCALE: 1" = 40'

PHASE 86 (CONTINUED)

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN
3. -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

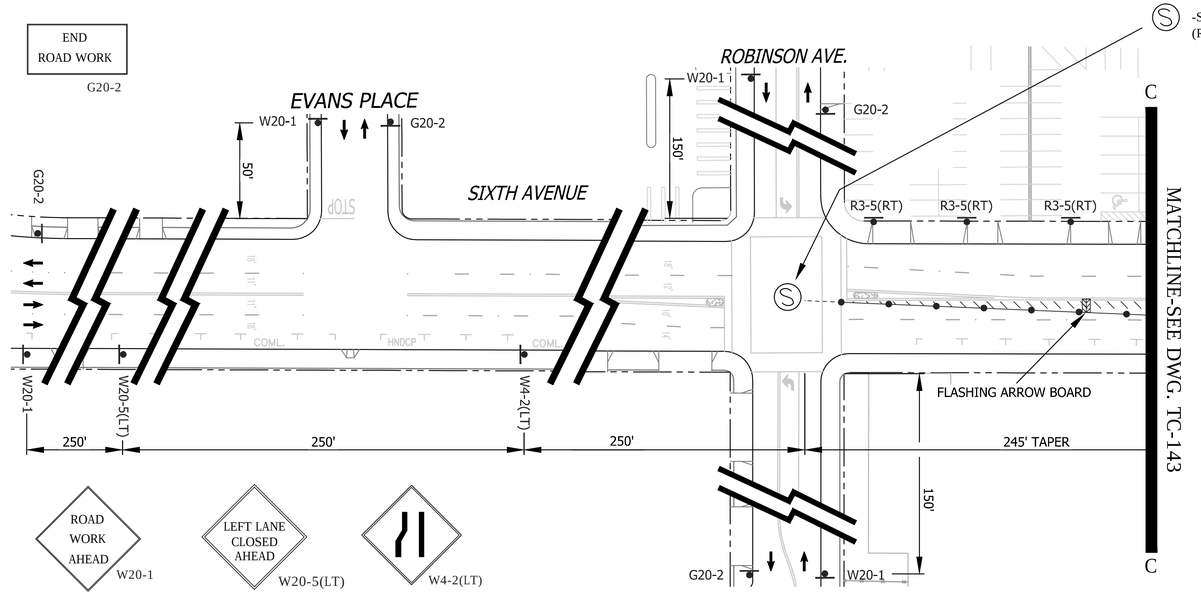
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



FOR MATCHLINE "C"
SCALE: 1" = 40'

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**8:30 A.M. to 3:30 P.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	45	SEE DWG.		500 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600C-1A | DATE: 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-144

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 86

CITY OF SAN DIEGO, CALIFORNIA
SHEET 144 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

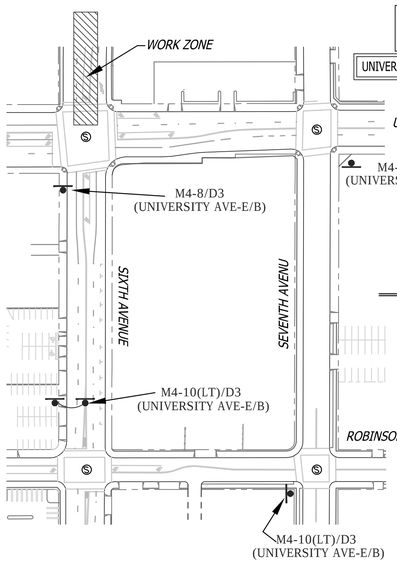
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T144-D

PHASE 87



DETOUR M4-8
UNIVERSITY AVENUE - EASTBOUND D3

UNIVERSITY AVENUE

M4-8A/D3 (UNIVERSITY AVE-E/B)

END DETOUR M4-8a
UNIVERSITY AVENUE - EASTBOUND D3

R3-18

DETOUR ROUTE
FOR DWGs. TC-145 & TC-146

DETOUR
M4-10(LT)
UNIVERSITY AVENUE - EASTBOUND D3

R9-3a

B — MATCHLINE-SEE DWG. TC-146 — B

RIGHT LANE CLOSED AHEAD W20-5(RT)

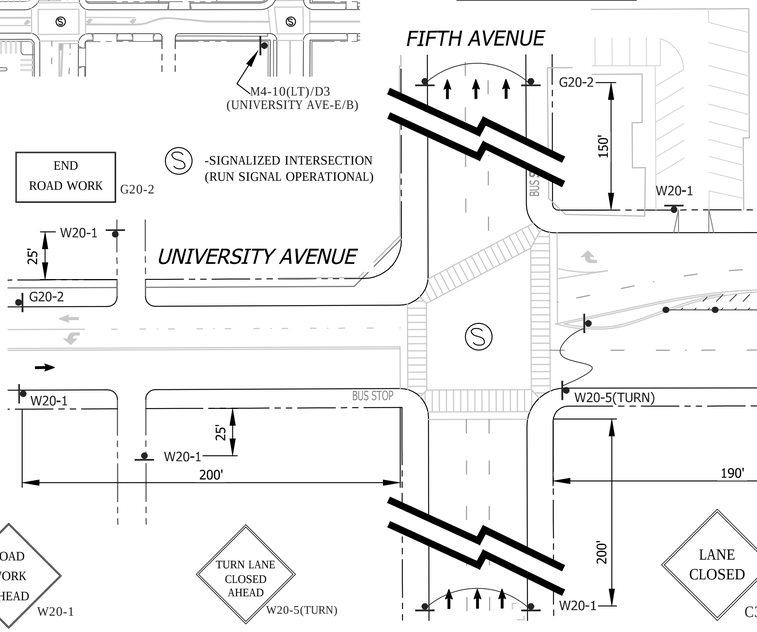
ROAD WORK AHEAD W20-1

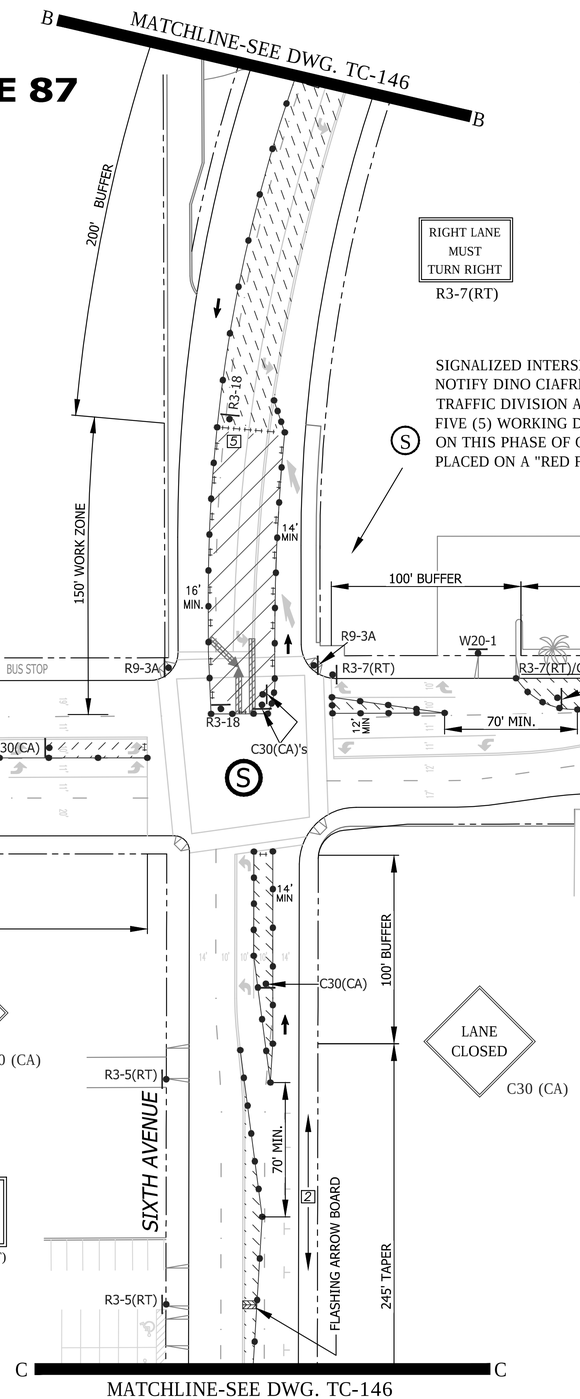
RIGHT LANE MUST TURN RIGHT R3-7(RT)

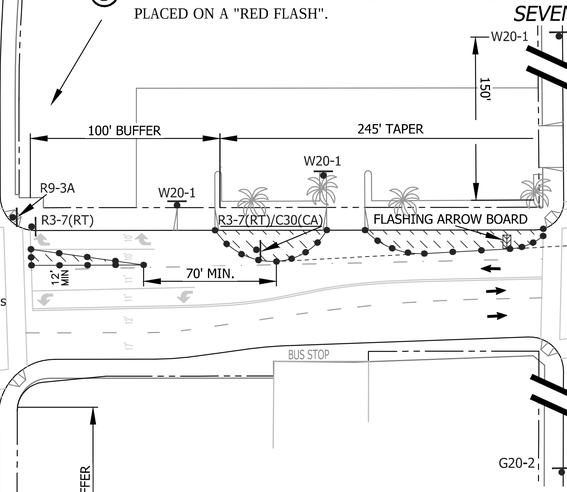
LANE CLOSED C30 (CA)

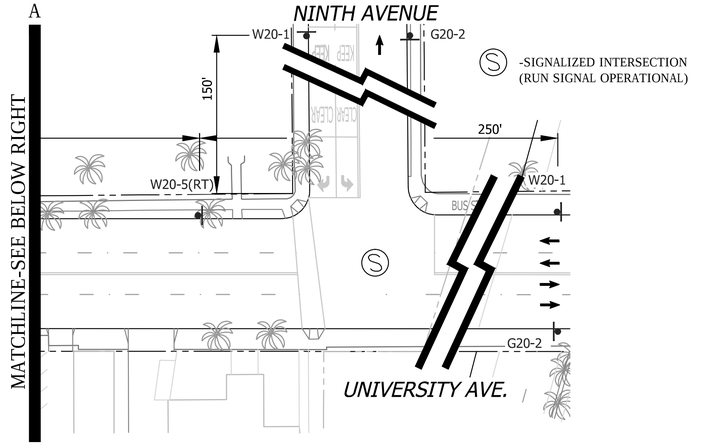
W4-2(RT)

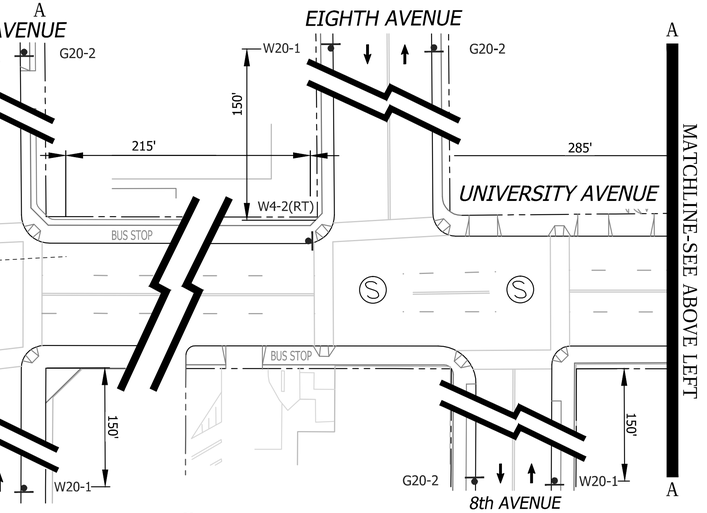
SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON A "RED FLASH".











-SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SCALE: 1" = 40'

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 87

CITY OF SAN DIEGO, CALIFORNIA
SHEET 145 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T145-D

TC-145

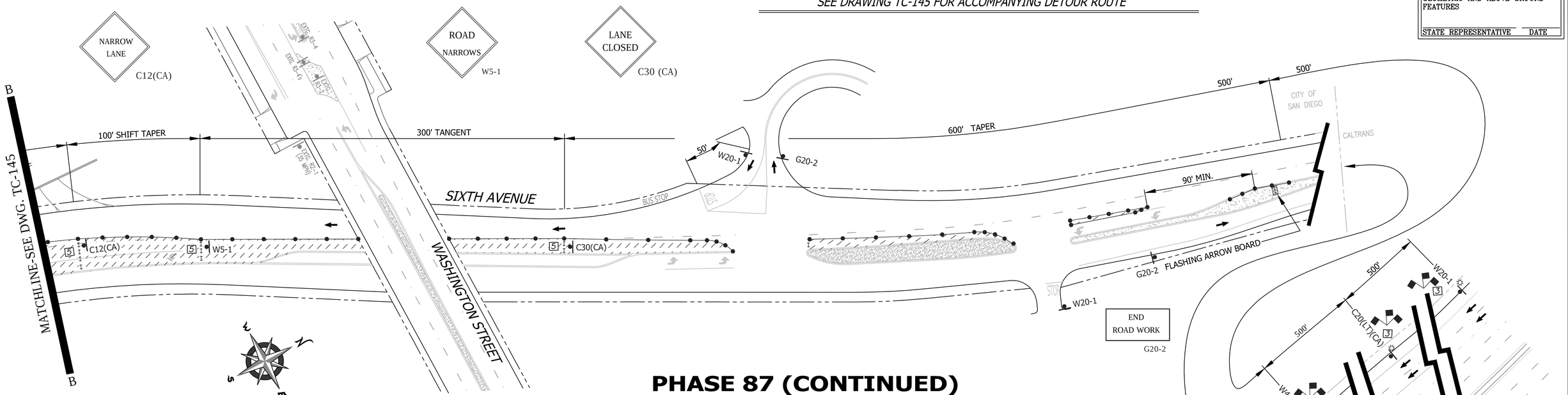
C — MATCHLINE-SEE DWG. TC-146 — C

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SEE DRAWING TC-145 FOR ACCOMPANYING DETOUR ROUTE

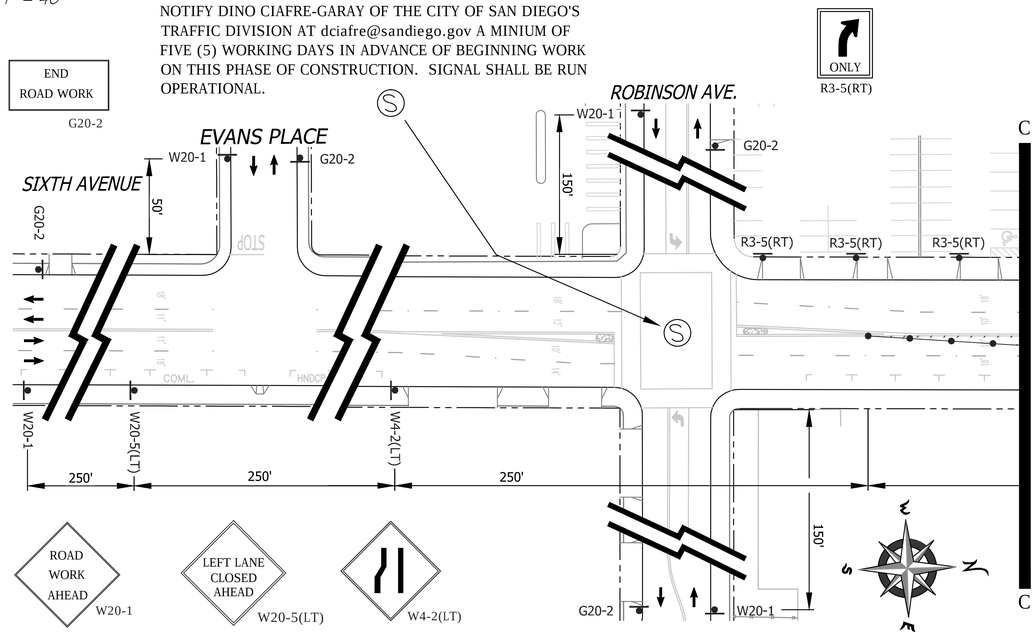
PHASE 87 (CONTINUED)



FOR MATCHLINE "B"
SCALE: 1" = 40'

END ROAD WORK
G20-2

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL.



FOR MATCHLINE "C"
SCALE: 1" = 40'

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

[3] -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 A.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	50	SEE DWG.		500 FT.	25 FT
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SIXTH AVENUE S/O UNIV	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-146

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 87

CITY OF SAN DIEGO, CALIFORNIA
SHEET 146 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T146-D

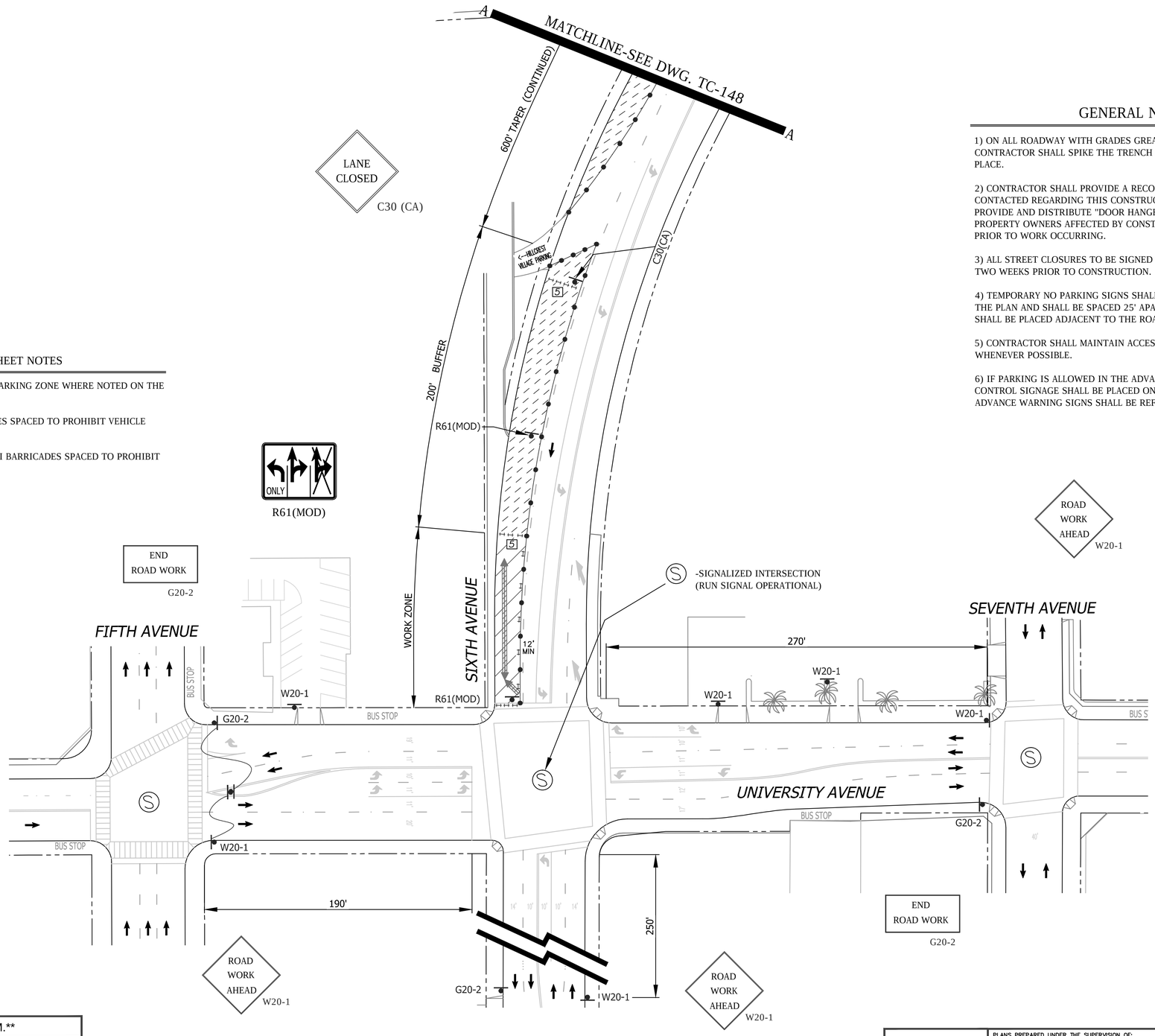
PHASE 88

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SIXTH AVENUE	35	SEE DWG.		250 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-147

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 88

CITY OF SAN DIEGO, CALIFORNIA
SHEET 147 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

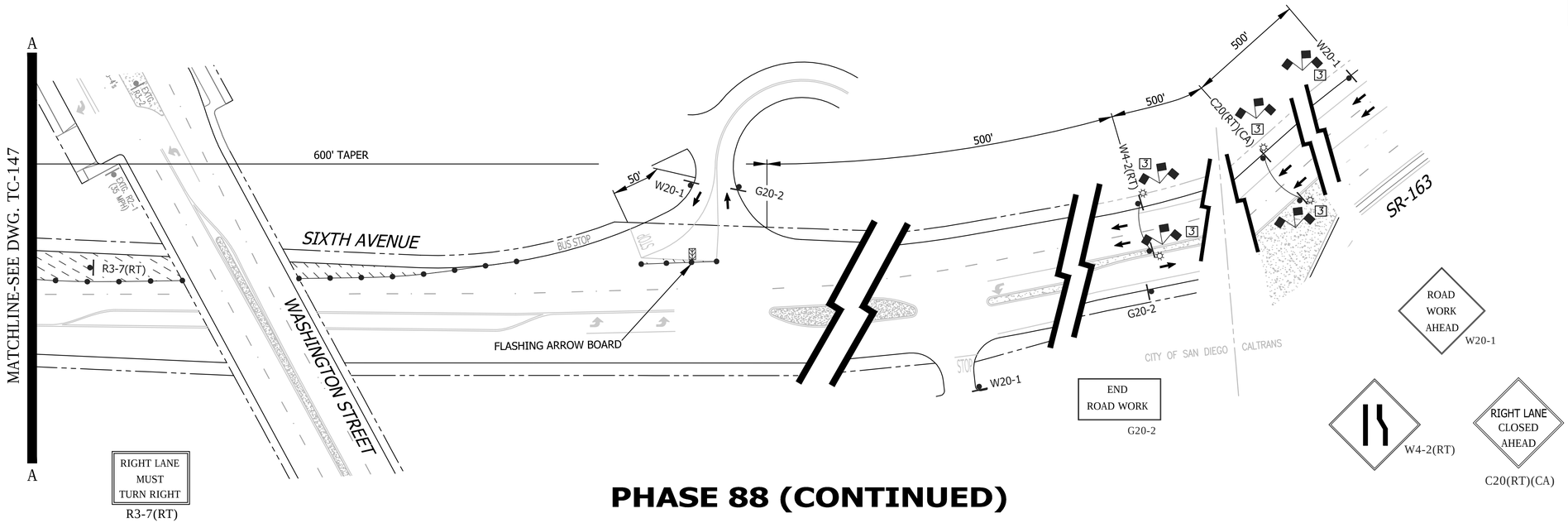
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T147-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



PHASE 88 (CONTINUED)

FOR MATCHLINE "B"
SCALE: 1" = 40'

SHEET NOTES

1. -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON PLAN

3. -EACH ADVANCE WARNING SIGN NOTED SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS FOR DAYTIME USE. EACH FLAG SHALL BE AT LEAST 16" X 16" IN SIZE AND SHALL BE ORANGE OR FLOURESCENT RED-ORANGE IN COLOR. A FLASHING BEACON SHALL BE PLACED ON TOP OF THE ADVANCE WARNING SIGNS DURING HOURS OF DARKNESS.

5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 A.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
SIXTH AVENUE N/O UNIV	50	SEE DWG.		500 FT.	25 FT
UNIVERSITY AVE E/O 6th	30	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE W/O 6th	25	N/A	N/A	150 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601b-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-148

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FIFTH AVENUE TO SEVENTH AVENUE
PHASE 88

CITY OF SAN DIEGO, CALIFORNIA
SHEET 148 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

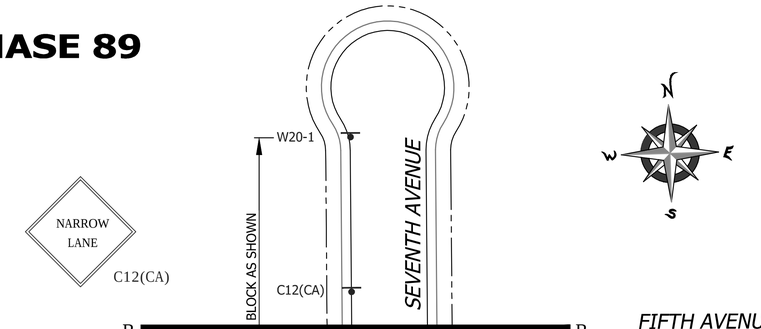
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

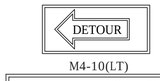
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T148-D

PHASE 89

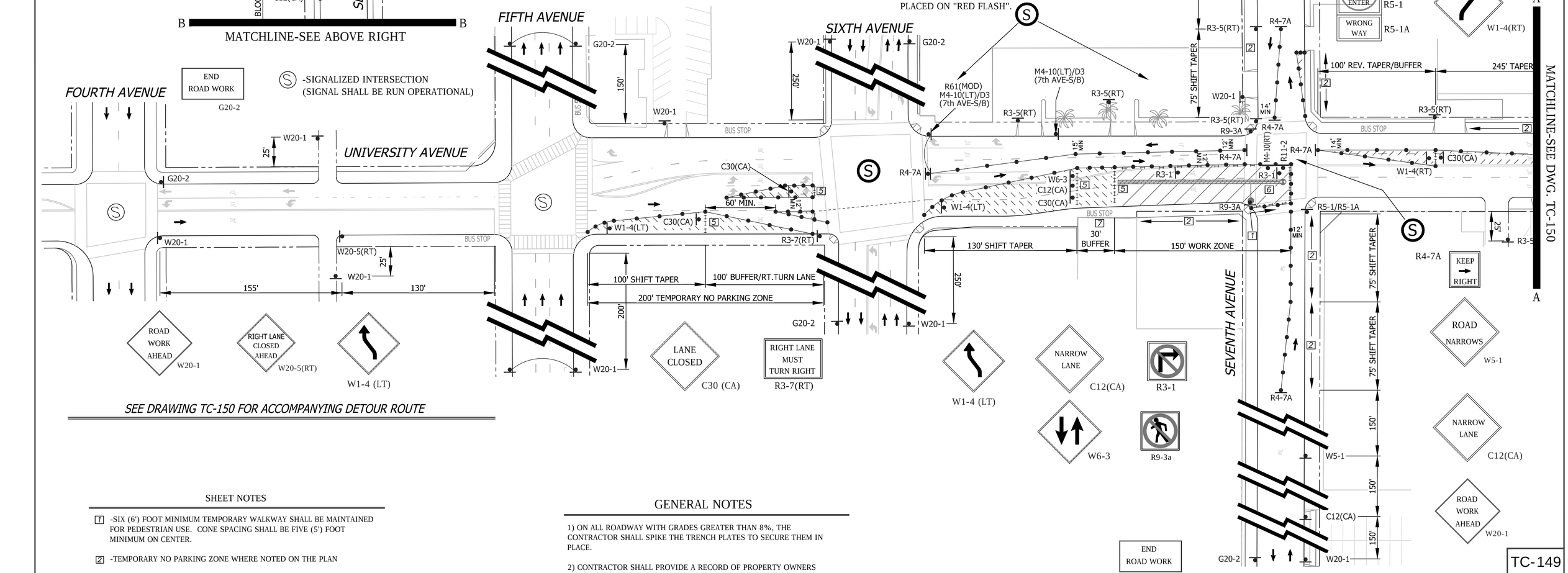


R61(MOD)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

MATCHLINE-SEE BELOW LEFT



SEE DRAWING TC-150 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
SEVENTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-149

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 89

CITY OF SAN DIEGO, CALIFORNIA
SHEET 149 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

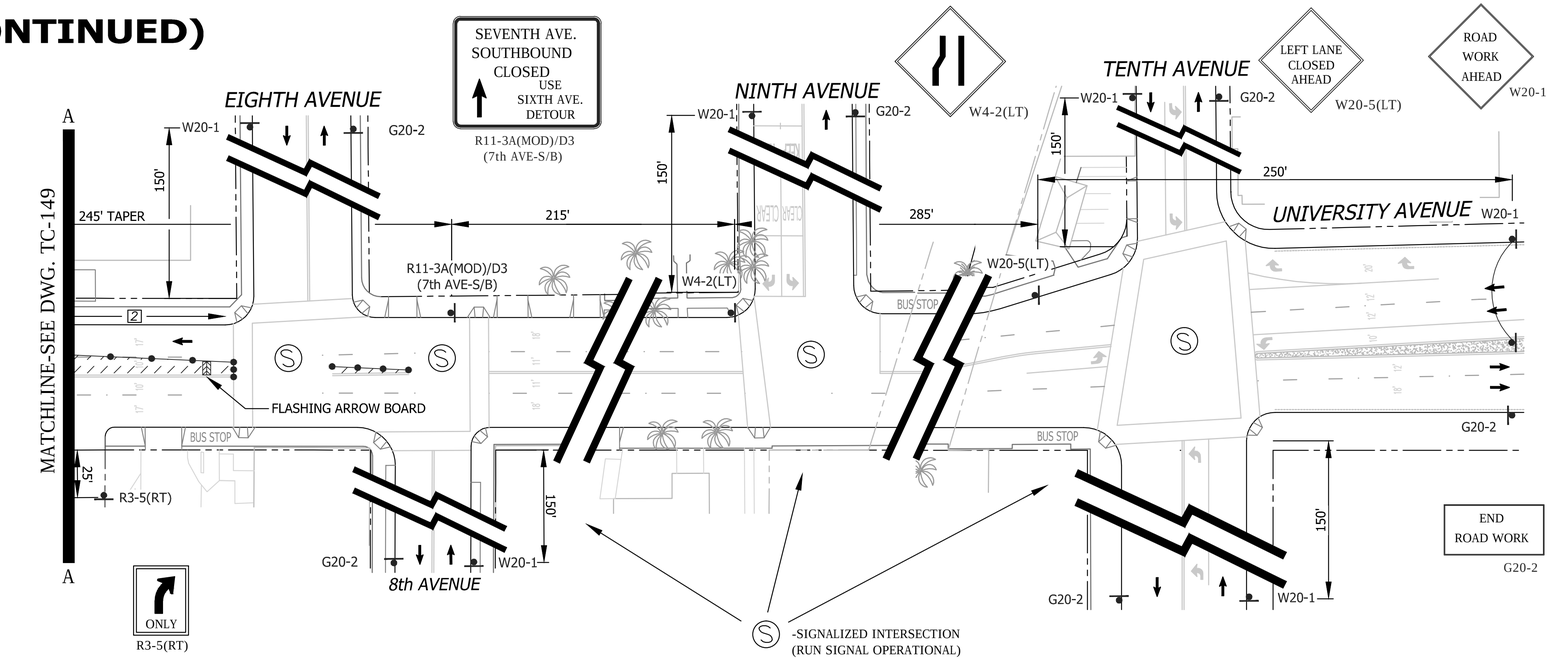
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T149-D

PHASE 89 (CONTINUED)



SHEET NOTES

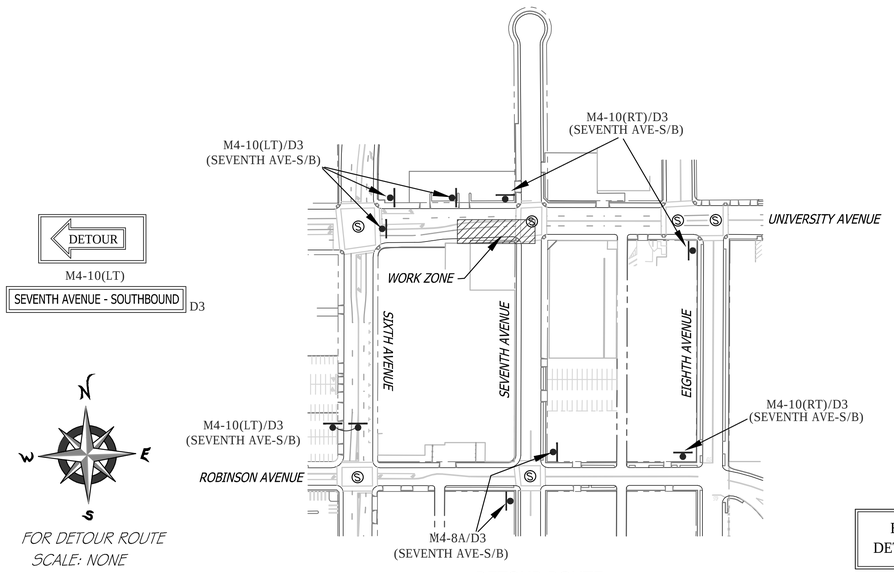
1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	N/A	N/A	250 FT.	25 FT
FIFTH/SIXTH AVENUE	30-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT



DETOUR
M4-10(LT)
SEVENTH AVENUE - SOUTHBOUND D3

DETOUR
M4-10(RT)
SEVENTH AVENUE - SOUTHBOUND D3

END
DETOUR M4-8a
SEVENTH AVENUE - SOUTHBOUND D3

FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-149 & TC-150

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REGLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060R-1A | DATE 06/17/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-150

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 89

CITY OF SAN DIEGO, CALIFORNIA
SHEET 150 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

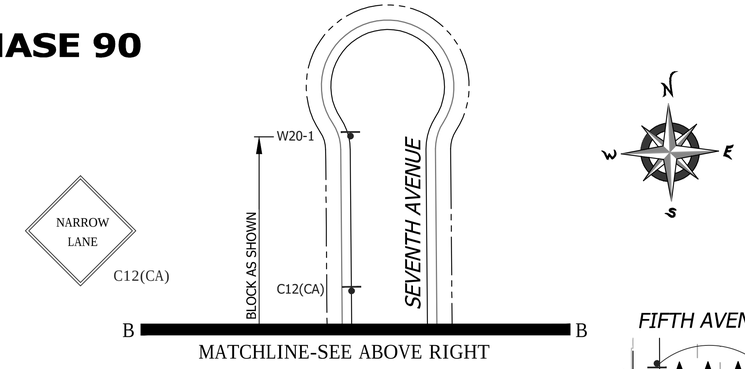
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

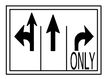
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

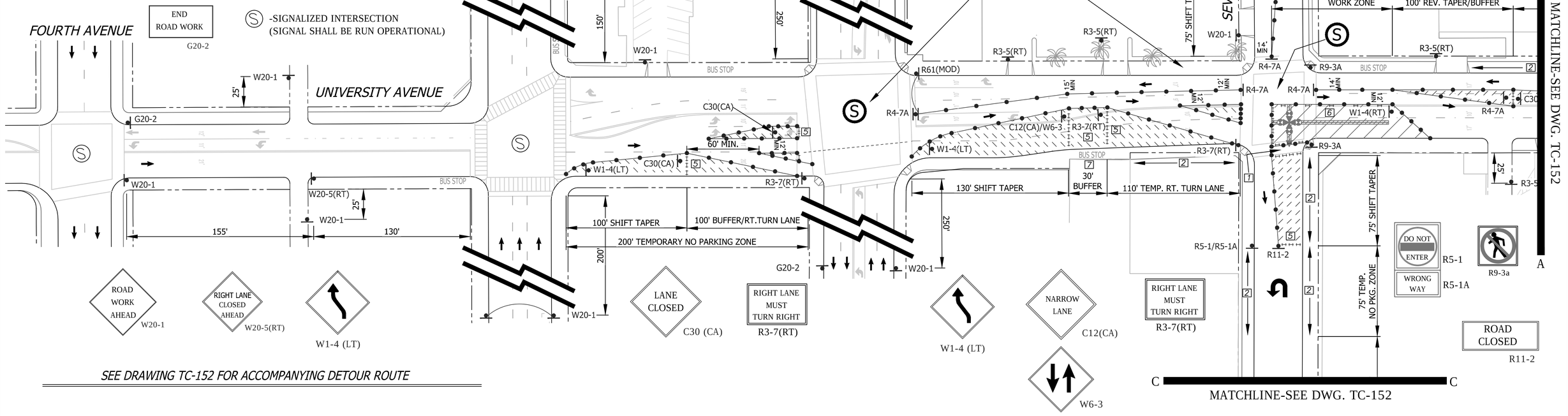
36656-T150-D

PHASE 90





SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DRAWING TC-152 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

1 -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

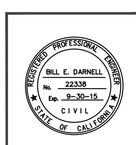
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
SEVENTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT



PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-151

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 90

CITY OF SAN DIEGO, CALIFORNIA
SHEET 151 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

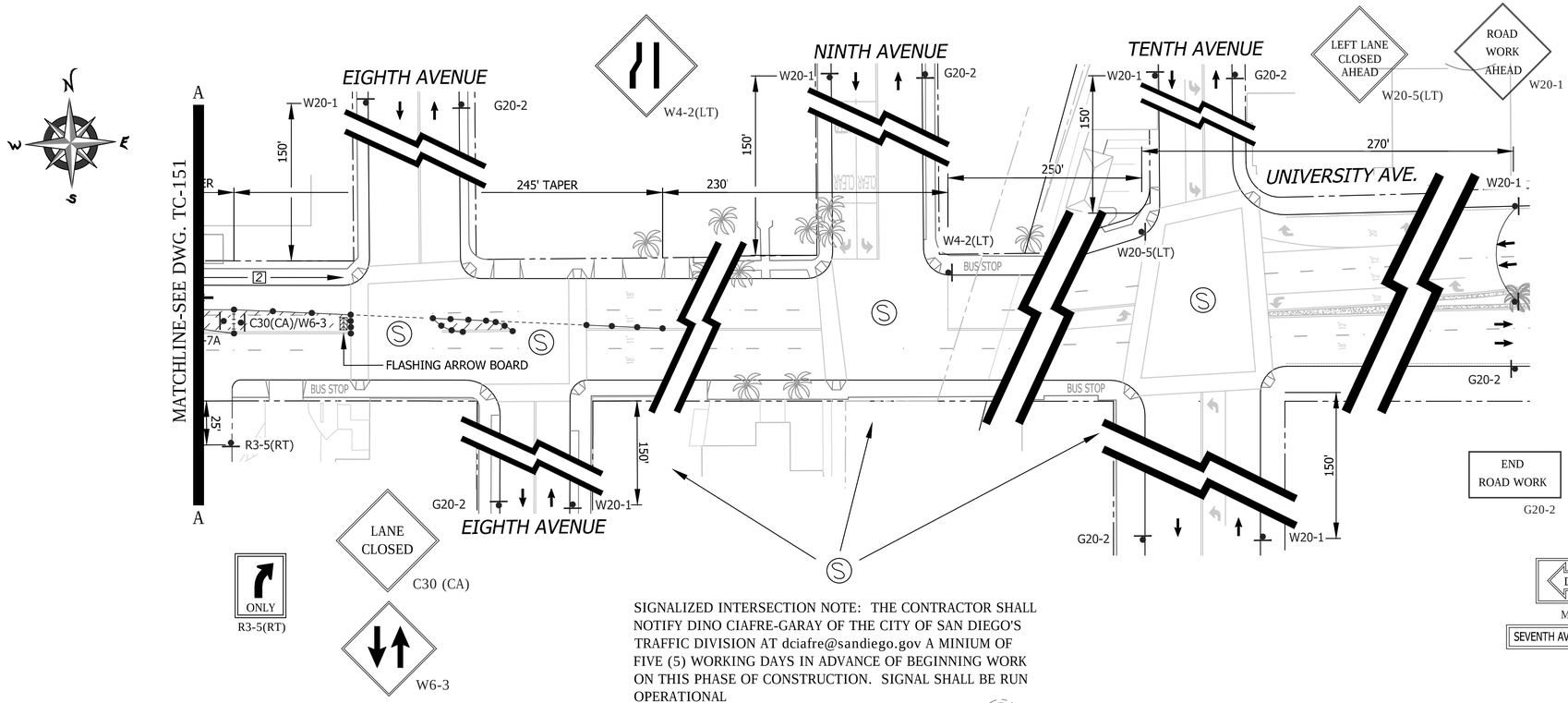
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

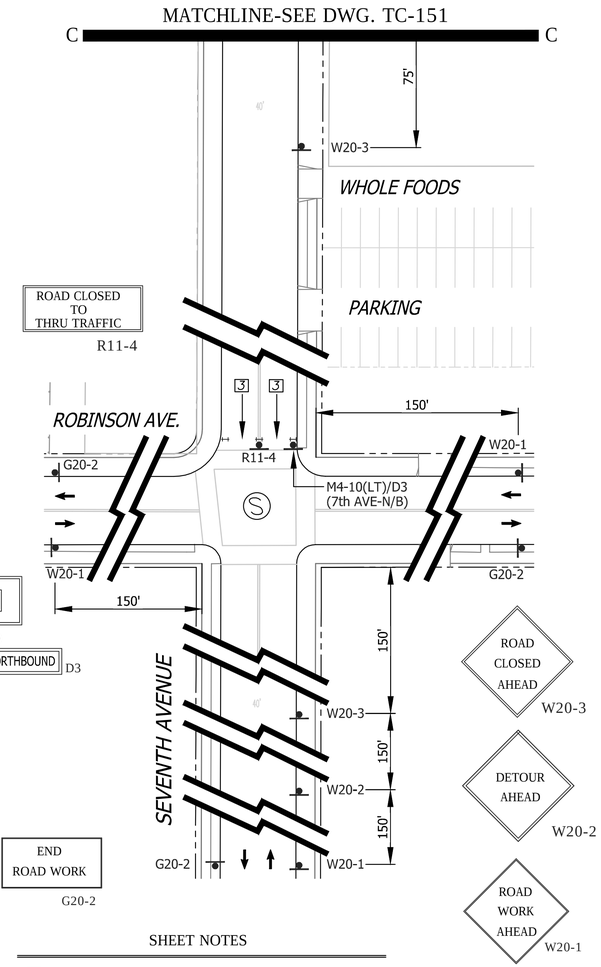
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

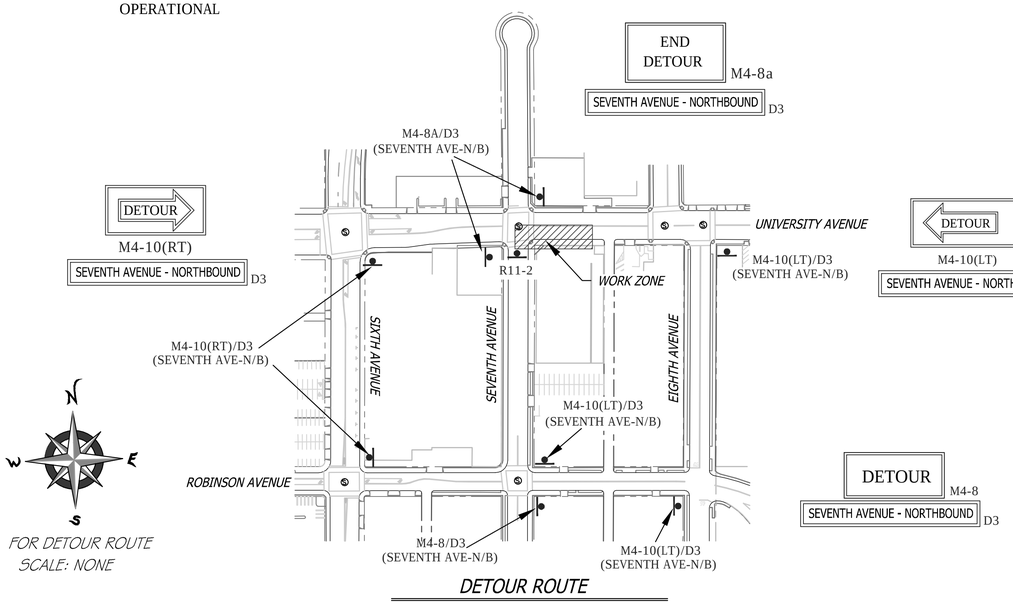
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T151-D





PHASE 90 (CONTINUED)



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-151 & TC-152

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

SHEET NOTES

[7] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

TC-152

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 90

CITY OF SAN DIEGO, CALIFORNIA
SHEET 152 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T152-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

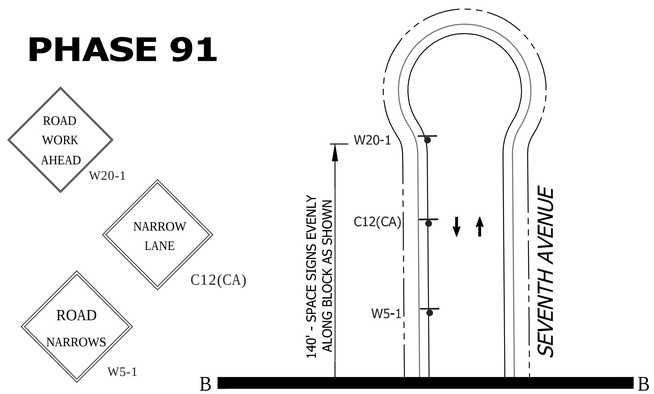
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

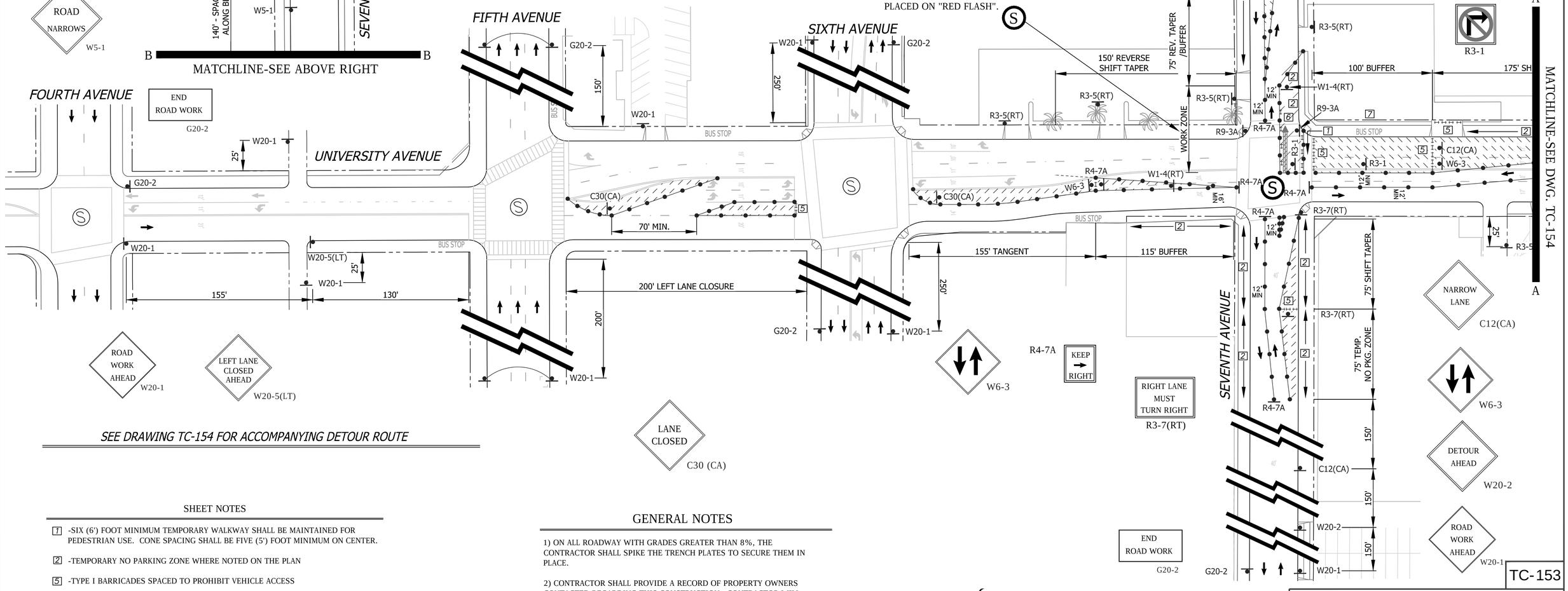
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 91





SEE DRAWING TC-154 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.	250 FT.	25 FT	
SEVENTH AVENUE	25	SEE DWG.	SEE DWG.	25 FT	
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.	250 FT.	25 FT	

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/18/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-153

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 91

CITY OF SAN DIEGO, CALIFORNIA
SHEET 153 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

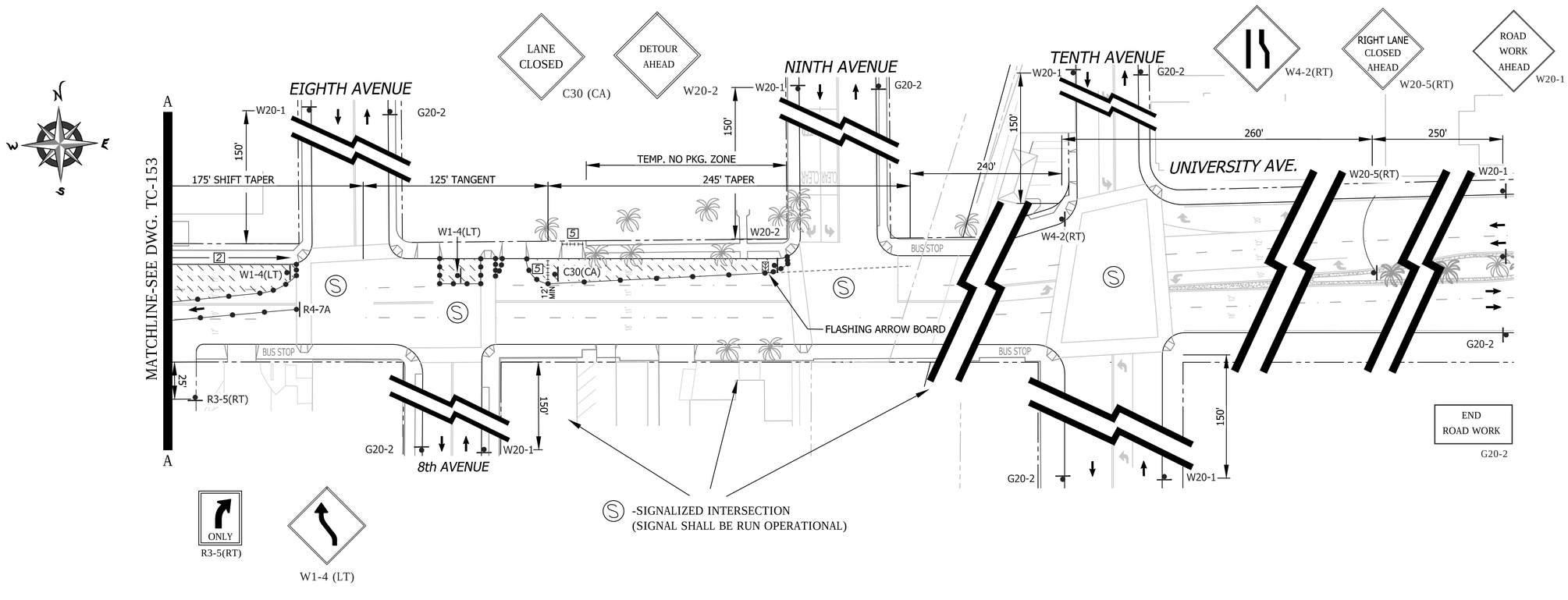
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T153-D



PHASE 91 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

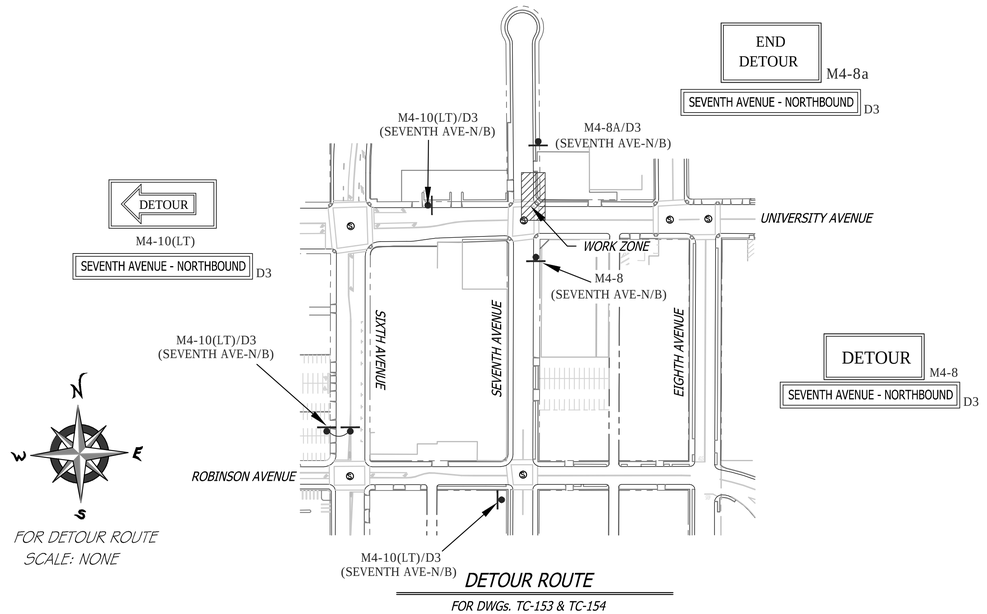
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
SEVENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-153 & TC-154

SHEET NOTES

[1] -SIX (6') FOOT MINIMUM TEMPORARY WALKWAY SHALL BE MAINTAINED FOR PEDESTRIAN USE. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-154

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT SEVENTH AVENUE
PHASE 91

CITY OF SAN DIEGO, CALIFORNIA
SHEET 154 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T154-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 92

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

FOURTH AVENUE
FIFTH AVENUE
SIXTH AVENUE
SEVENTH AVENUE
EIGHTH AVENUE
NINTH AVENUE
TENTH AVENUE
UNIVERSITY AVENUE
UNIVERSITY AVE.
8th AVENUE
SR-163
WHOLE FOODS
PARKING
BUS STOP
MATCHLINE-SEE BELOW LEFT
MATCHLINE-SEE ABOVE RIGHT

END ROAD WORK G20-2
RIGHT LANE CLOSED AHEAD W20-5(RT)
ROAD WORK AHEAD W20-1
R61(MOD)
R3-5(RT)
ONLY
W20-1 25'
G20-2
W20-5(RT) 25'
155'
130'
100' SHIFT TAPER
100' BUFFER/RT.TURN LANE
200' TEMPORARY NO PARKING ZONE
200'
150'
250'
C30(CA)
60' MIN.
W1-4(LT)
R3-7(RT)
130' SHIFT TAPER
30' BUFFER
110' TEMP. RT. TURN LANE
W6-3
C12(CA)
C30(CA)
R4-7A
W1-4(LT)
R11-2(ALLEY)
R11-4 (ALLEY)
100'
W20-3 (ALLEY)
NARROW LANE C12(CA)
RIGHT LANE MUST TURN RIGHT R3-7(RT)
KEEP → RIGHT R4-7A
ALLEY CLOSED R11-2(ALLEY)
W1-4 (LT)
LANE CLOSED C30 (CA)
RIGHT LANE MUST TURN RIGHT R3-7(RT)
W6-3
W4-2(LT)
LEFT LANE CLOSED AHEAD W20-5(LT)
ROAD WORK AHEAD W20-1
ALLEY CLOSED TO THRU TRAFFIC R11-4(ALLEY)
ALLEY CLOSED AHEAD W20-3 (ALLEY)
R4-7A KEEP → RIGHT
R9-3A
R9-3a
W1-4(RT)
W6-3/C30(CA)
C30(CA)
FLASHING ARROW BOARD
125' SHIFT TAPER
W1-4(RT)
250'
END ROAD WORK G20-2
NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

TC-155

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 92

CITY OF SAN DIEGO, CALIFORNIA
SHEET 155 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER AHMED ABURAHMAH PRINT NAME 07/15/2014 DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T155-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

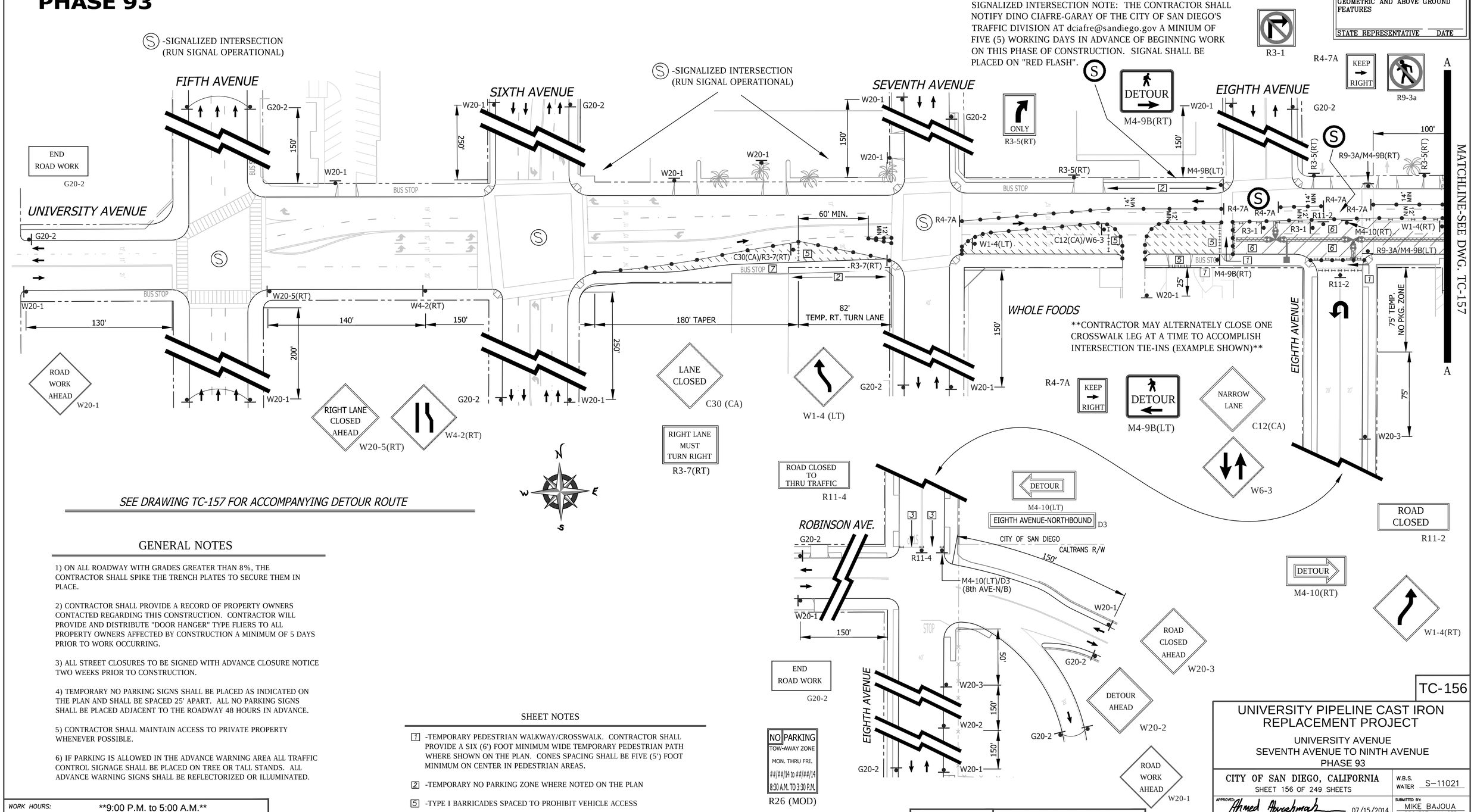
DWG NAME: 13060T6-1A | DATE: 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 93

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SEE DRAWING TC-157 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-156

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 93

CITY OF SAN DIEGO, CALIFORNIA
SHEET 156 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

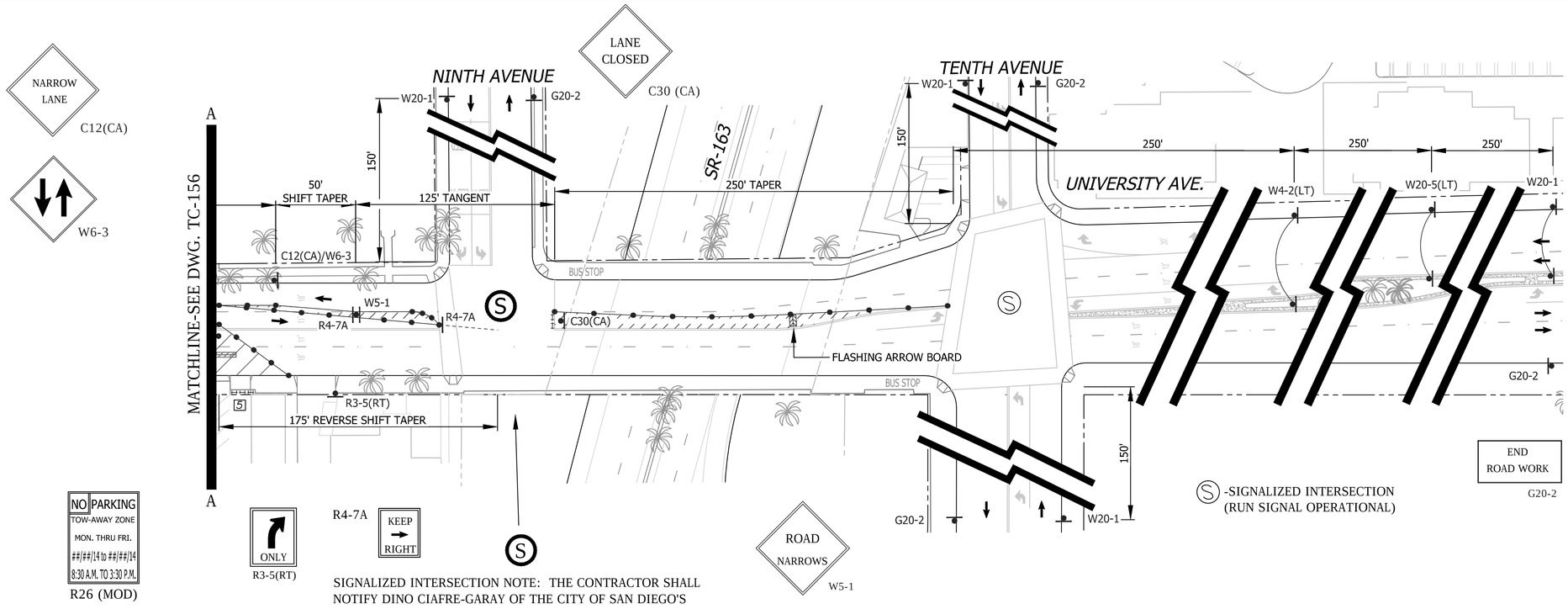
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T156-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

PHASE 93 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

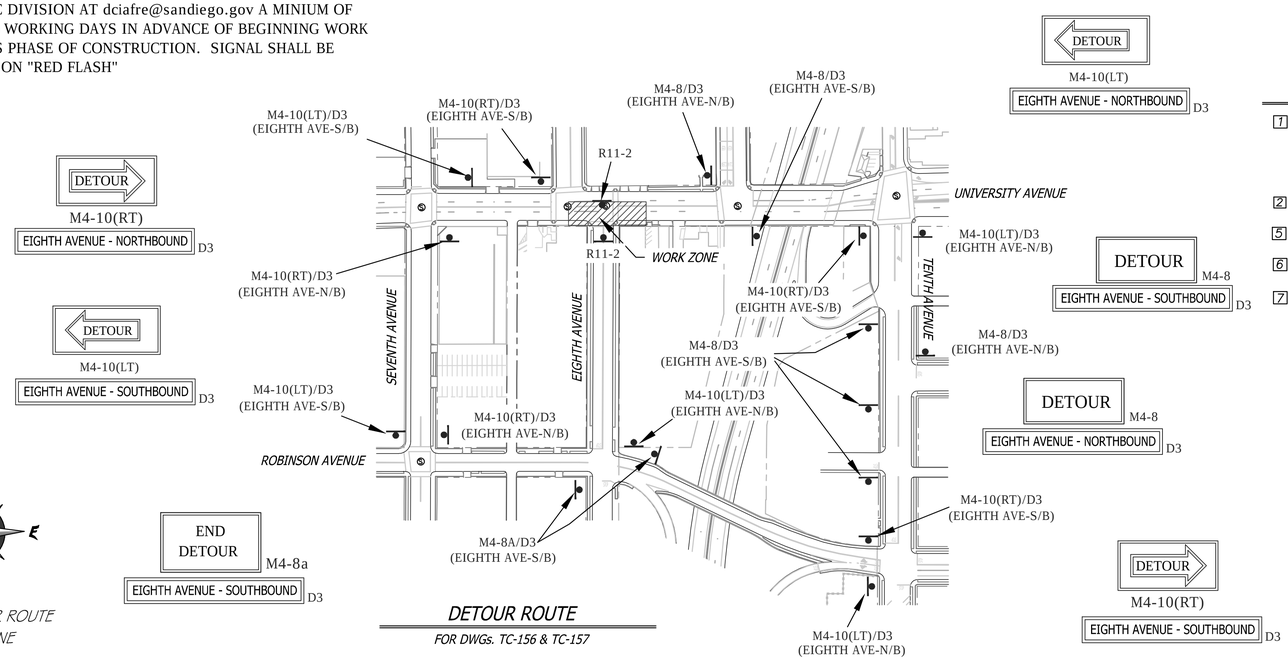
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-156 & TC-157

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ROBINSON AVENUE	25	N/A	N/A	150 FT.	25 FT
NINTH / TENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-1A | DATE:06/18/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-157

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 93

CITY OF SAN DIEGO, CALIFORNIA
SHEET 157 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

36656-T157-D

PHASE 94

SEE DRAWING TC-159 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

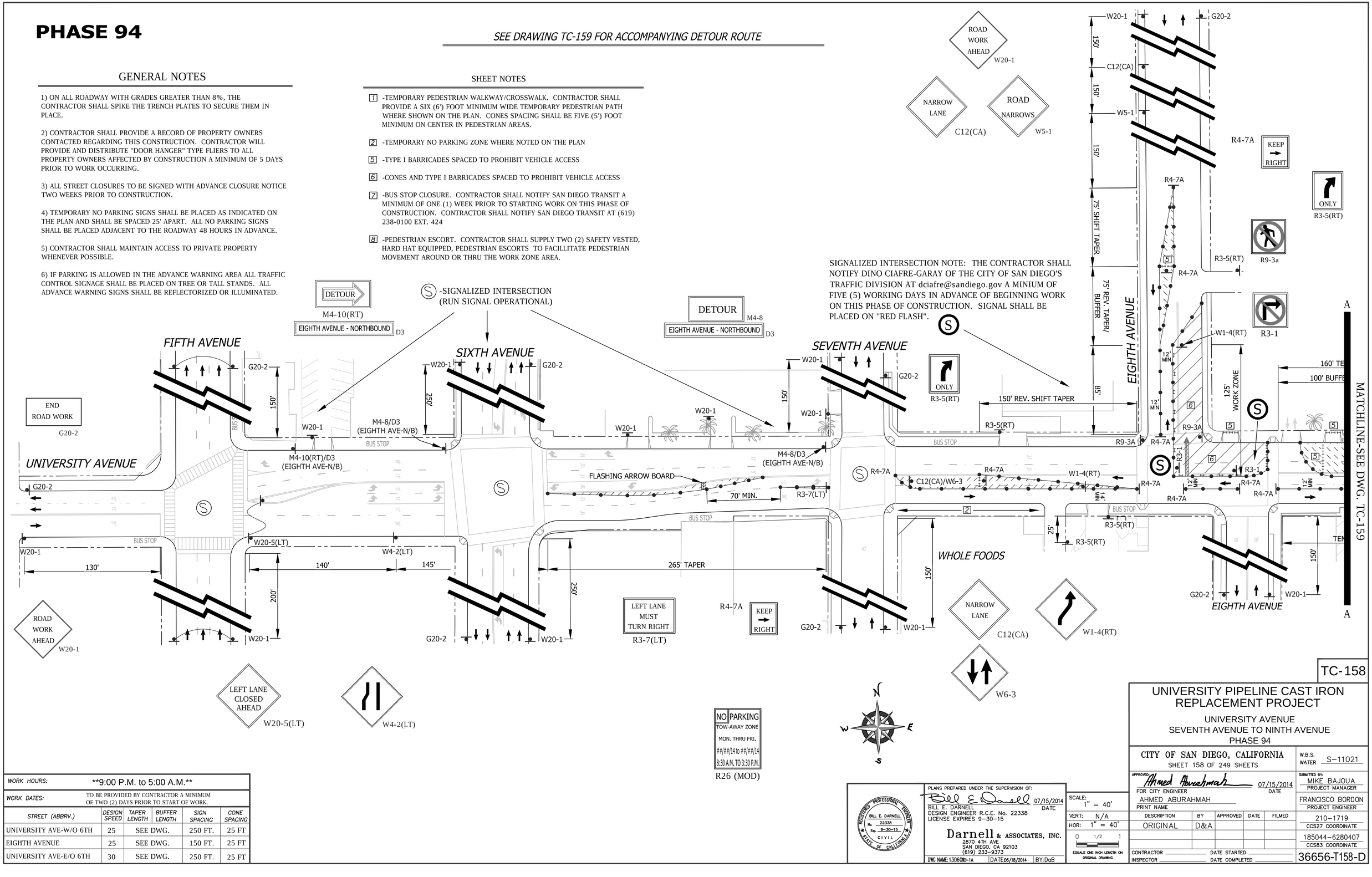
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
EIGHTH AVENUE	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D0-1A | DATE: 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-158

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 94

CITY OF SAN DIEGO, CALIFORNIA
SHEET 158 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T158-D

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

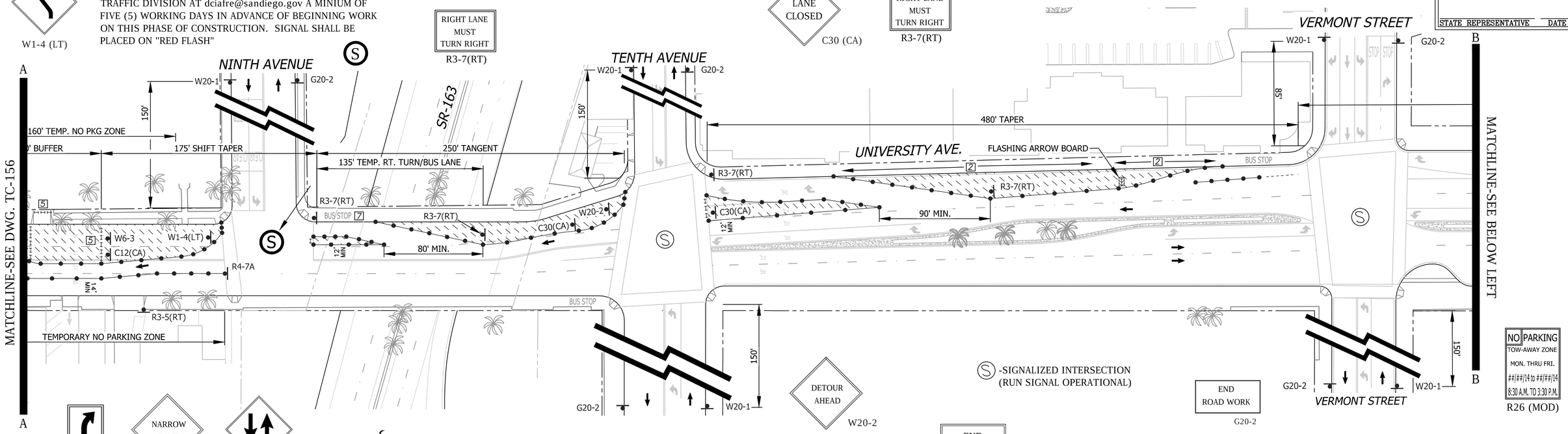
SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

W1-4 (LT)

LANE CLOSED
C30 (CA)

RIGHT LANE MUST TURN RIGHT
R3-7(RT)

RIGHT LANE MUST TURN RIGHT
R3-7(RT)



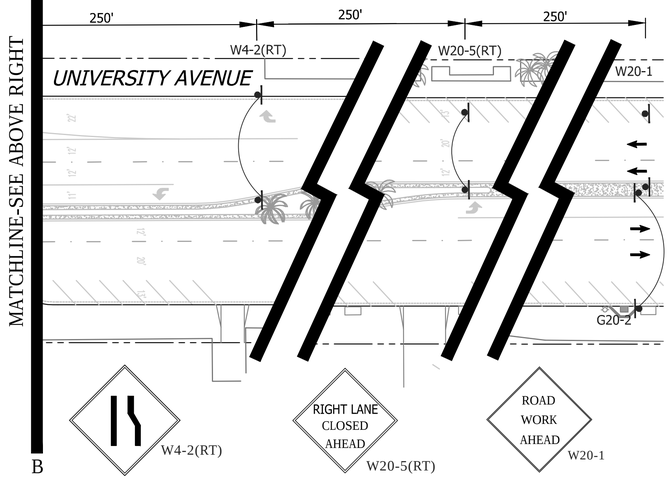
PHASE 94 (CONTINUED)

ONLY
R3-5(RT)

NARROW LANE
C12(CA)

W6-3

R4-7A KEEP RIGHT



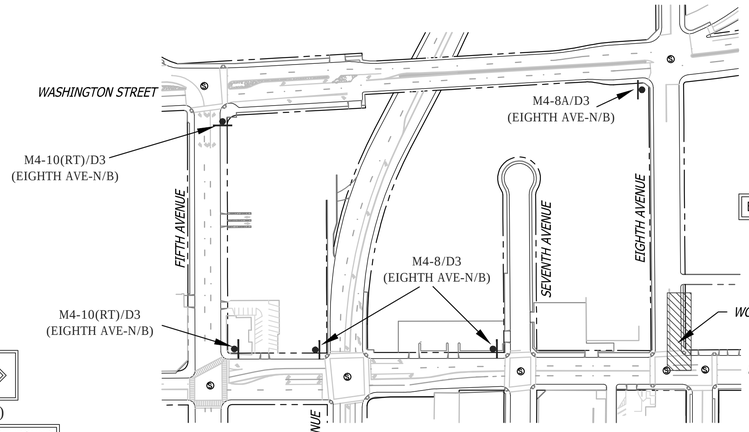
W4-2(RT)

RIGHT LANE CLOSED AHEAD
W20-5(RT)

ROAD WORK AHEAD
W20-1

END DETOUR
M4-8a

EIGHTH AVENUE - NORTHBOUND D3



DETOUR
M4-10(RT)
EIGHTH AVENUE - NORTHBOUND D3

DETOUR ROUTE
FOR DWGs. TC-158 & TC-159

DETOUR
M4-8
EIGHTH AVENUE - NORTHBOUND D3

FOR DETOUR ROUTE
SCALE: NONE

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN PATH WHERE SHOWN ON THE PLAN. CONES SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
VERMONT AVENUE	25	N/A	N/A	SEE DWG.	25 FT
NINTH / TENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

TC-159

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 94

CITY OF SAN DIEGO, CALIFORNIA
SHEET 159 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

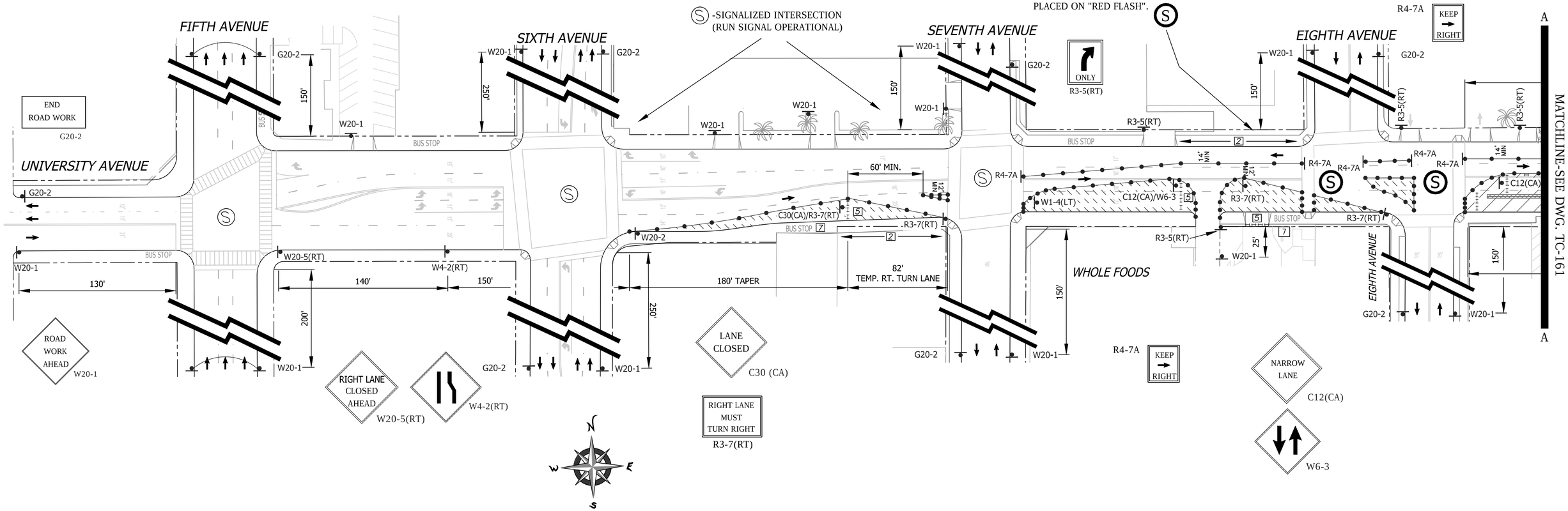
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T159-D

PHASE 95

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
EIGHTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306009-1A | DATE: 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-160

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 95

CITY OF SAN DIEGO, CALIFORNIA
SHEET 160 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

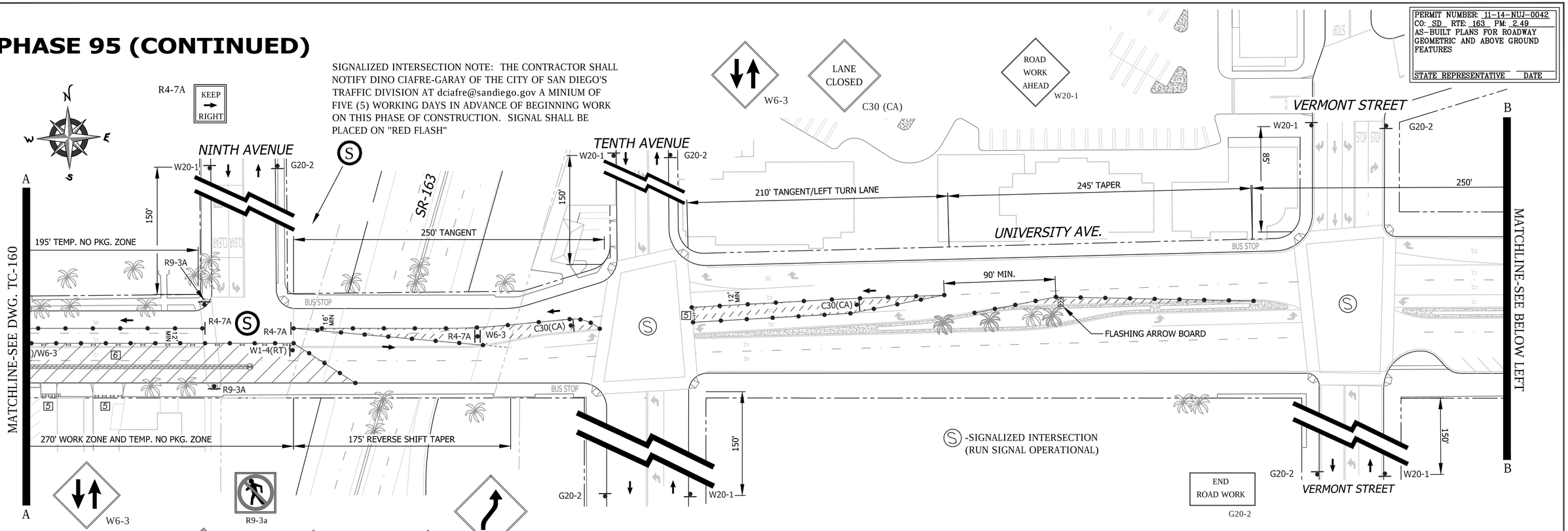
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T160-D

PHASE 95 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
NINTH / TENTH AVENUE	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

TC-161

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
SEVENTH AVENUE TO NINTH AVENUE
PHASE 95

CITY OF SAN DIEGO, CALIFORNIA
SHEET 161 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T161-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

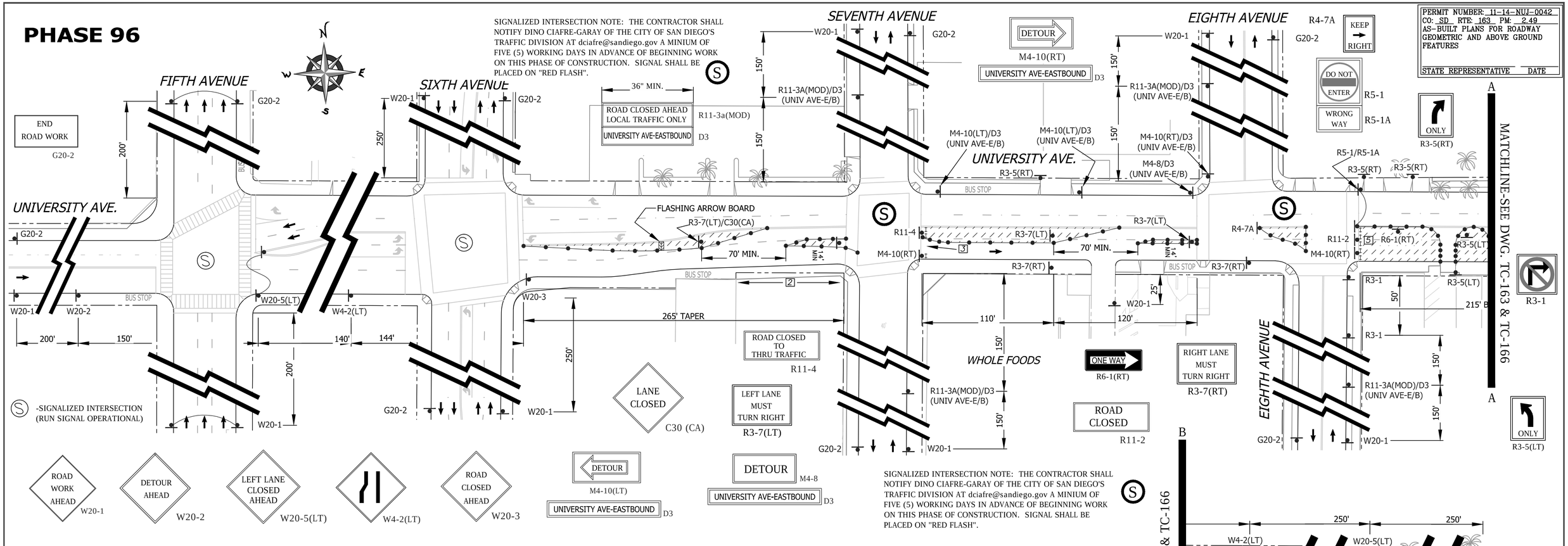
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 96



S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

ROAD WORK AHEAD W20-1

DETOUR AHEAD W20-2

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

ROAD CLOSED AHEAD W20-3

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

SEE DRAWING TC-163 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE OR TEMPORARY NO PARKING ZONE TO ACCOMMODATE ADVANCE WARNING SIGN VISIBILITY

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE E/O 9th	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNVIVERSITY AVE E/O 6th	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

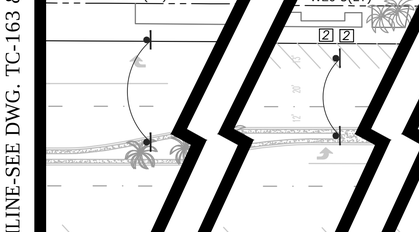
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



END ROAD WORK G20-2

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130600c-1A | DATE:06/15/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-162

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
BRIDGE CROSSING OVER SR-163
PHASE 96

CITY OF SAN DIEGO, CALIFORNIA
SHEET 162 OF 249 SHEETS

W.B.S. WATER S-11021

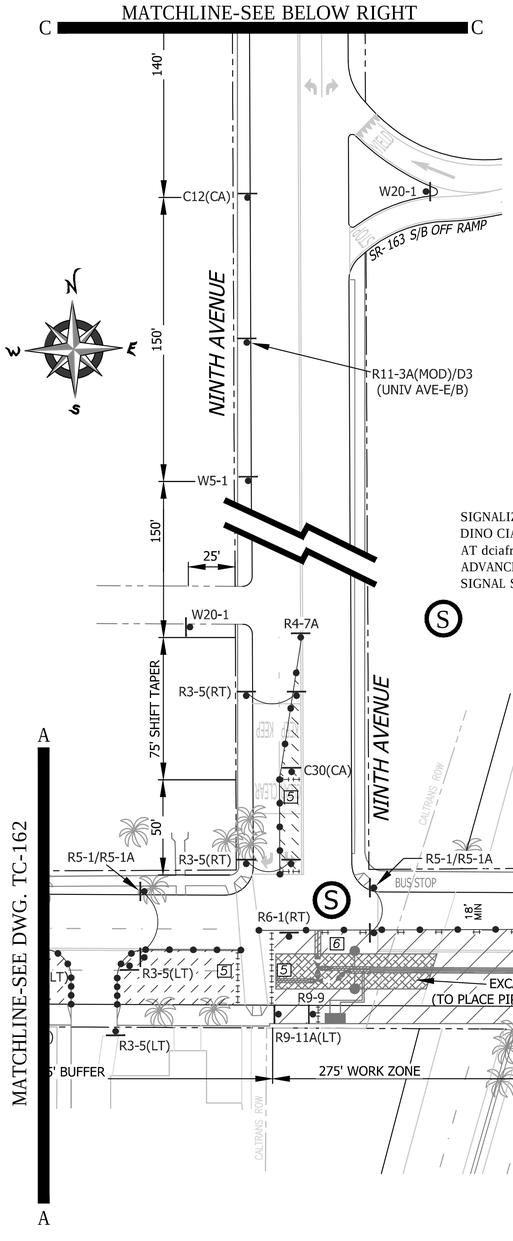
APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

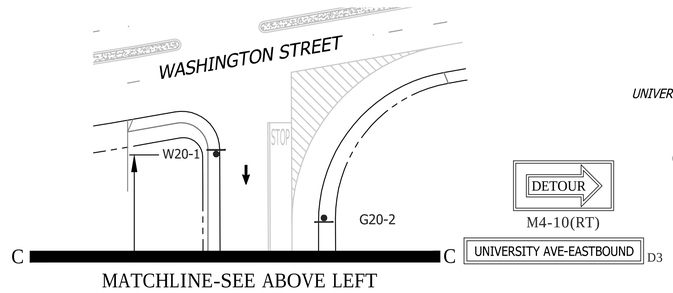
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
36656-T162-D



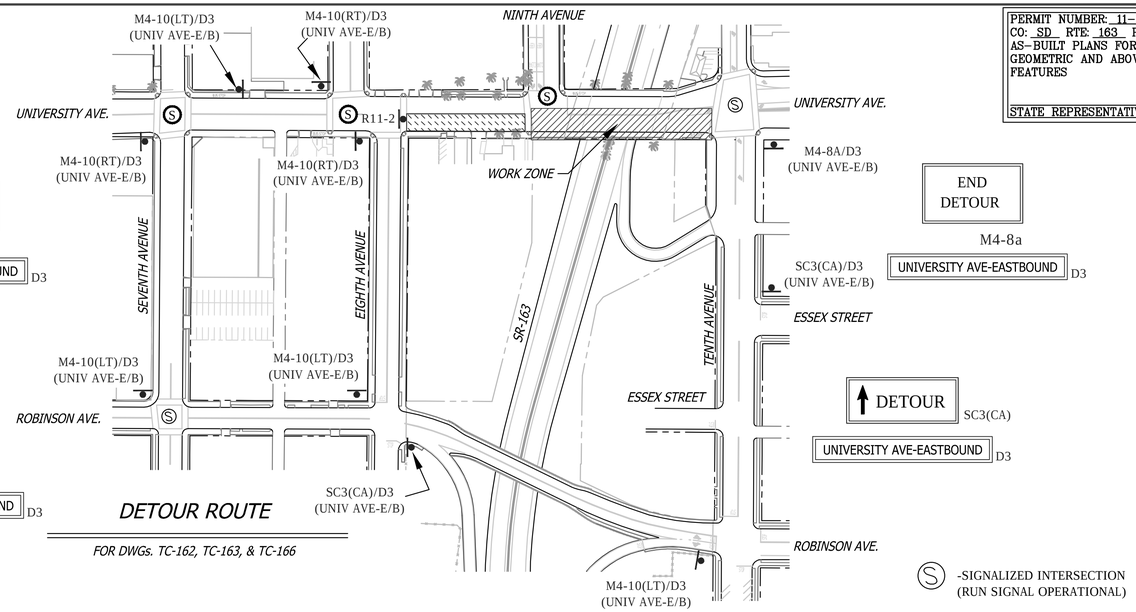


PHASE 96 (CONTINUED)

DETOUR
M4-10(RT)
UNIVERSITY AVE-EASTBOUND D3

DETOUR
M4-10(LT)
UNIVERSITY AVE-EASTBOUND D3

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



DETOUR ROUTE

FOR DWGs. TC-162, TC-163, & TC-166

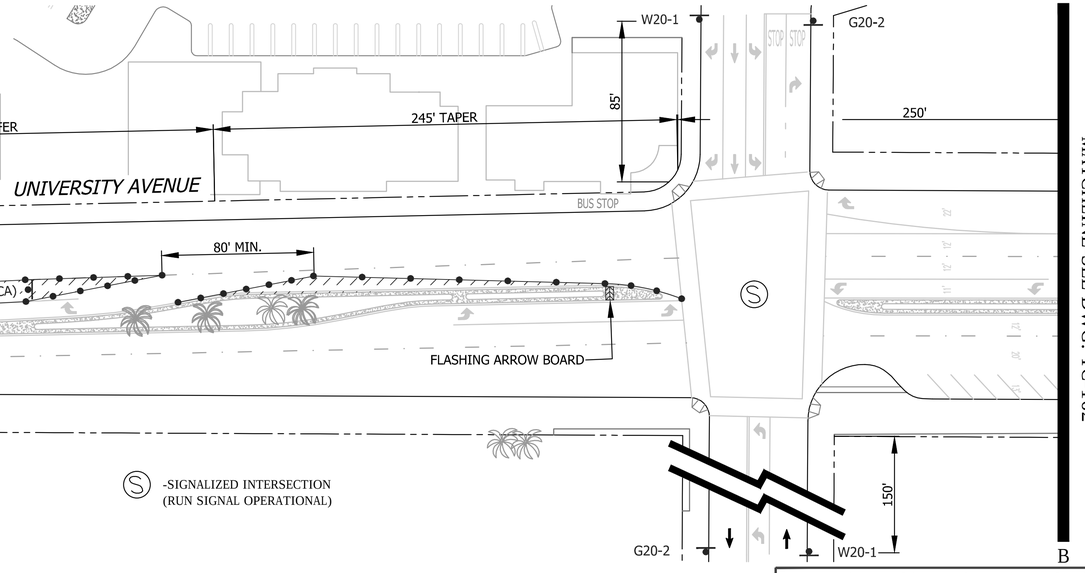
END DETOUR
M4-8a
UNIVERSITY AVE-EASTBOUND D3

DETOUR SC3(CA)
UNIVERSITY AVE-EASTBOUND D3

S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK / WALKWAY. CONTRACTOR SHALL MAINTAIN A SIX (6') FOOT MINIMUM PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE THRU DELINEATED TRAFFIC CONTROL ZONE OR TEMPORARY NO PARKING ZONE TO ACCOMMODATE ADVANCE WARNING SIGN VISIBILITY

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE E/O 9th	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNVIVERSITY AVE E/O 6th	30	SEE DWG.		200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE 06/15/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-163

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
BRIDGE CROSSING OVER SR-163
(CONTINUATION SHEET FOR TC-162) PHASE 96

CITY OF SAN DIEGO, CALIFORNIA
SHEET 163 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T163-D

PHASE 97

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

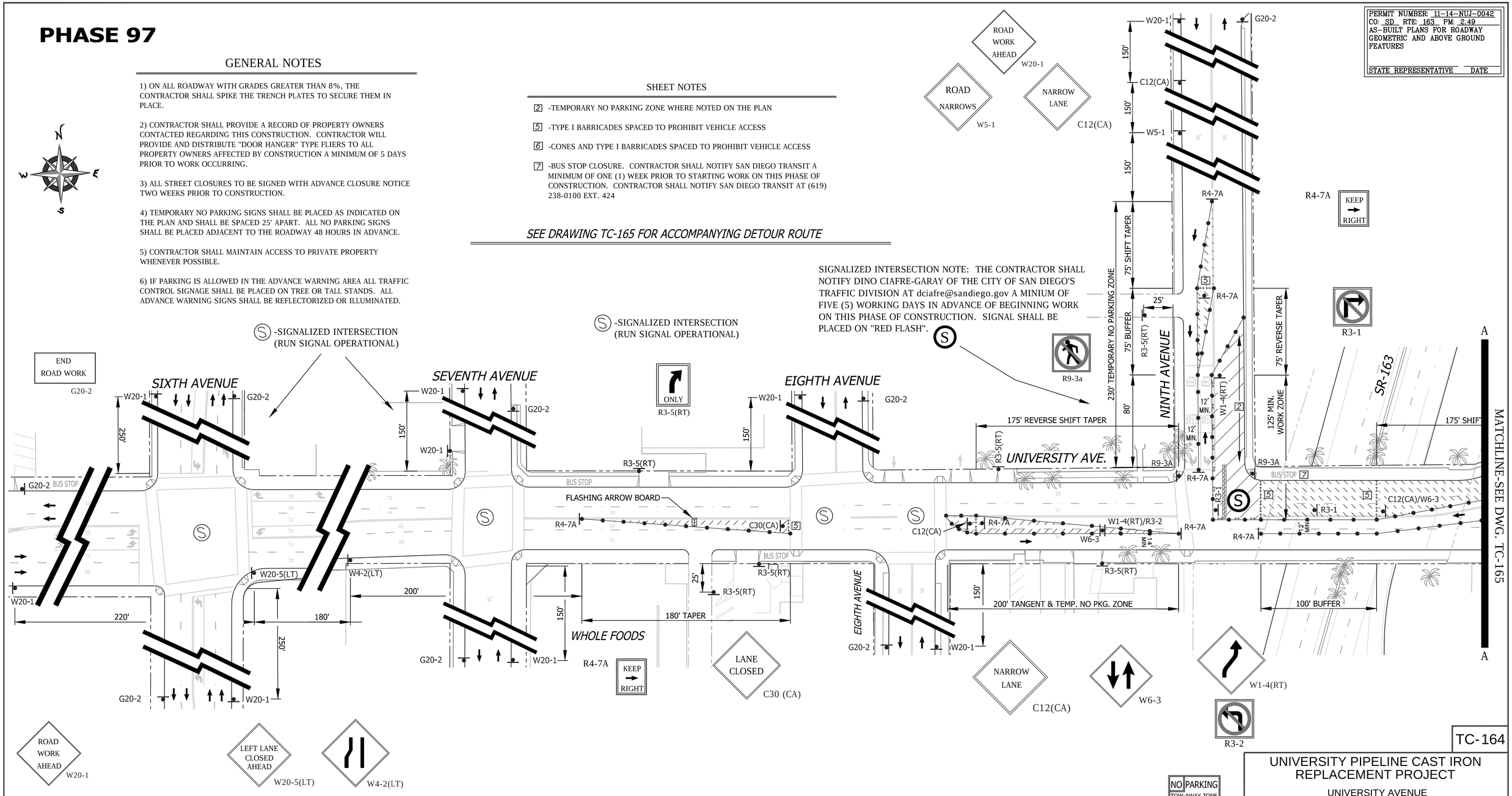
[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

SEE DRAWING TC-165 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.	250 FT.	25 FT	
EIGHTH AVENUE	25	SEE DWG.	150 FT.	25 FT	
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.	250 FT.	25 FT	

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060RD-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-164

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NINTH AVENUE
PHASE 97

CITY OF SAN DIEGO, CALIFORNIA
SHEET 164 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

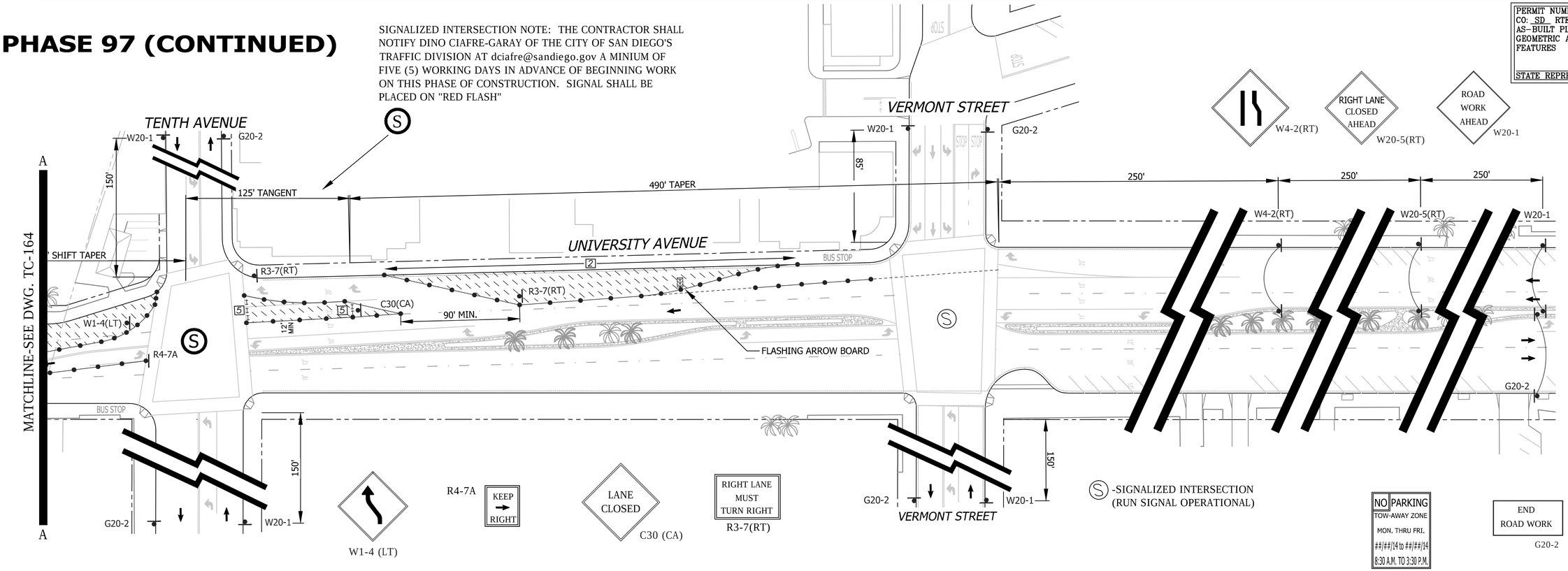
36656-T164-D

PHASE 97 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

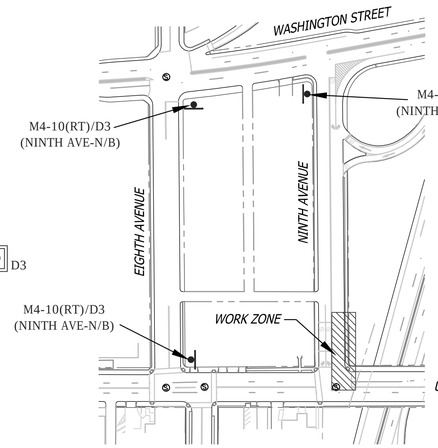
4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

DETOUR
M4-10(RT)
NINTH AVENUE - NORTHBOUND D3

END DETOUR
M4-8a
NINTH AVENUE - SOUTHBOUND D3



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE
FOR DWGs. TC-164 & TC-165

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
TENTH/VERMONT	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

TC-165

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NINTH AVENUE
PHASE 97

CITY OF SAN DIEGO, CALIFORNIA
SHEET 165 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T165-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 98 (CONTINUED)

SEE DRAWING TC-163 FOR ACCOMPANYING DETOUR ROUTE

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

MATCHLINE-SEE BELOW

C C

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

ROAD NARROWS W5-1 — W5-1 — 150' — 25'

ONLY R3-5(RT) — W20-1 — R4-7A — KEEP RIGHT R4-7A

R5-1 — DO NOT ENTER — WRONG WAY R5-1A — R3-5(RT) — 75' SHIFT TAPER — C30(CA) — 5

A — 50' — R5-1/R5-1A — R3-5(RT)

NINTH AVENUE — SR-163 — CALTRANS ROW — 250' TANGENT — BUS STOP

W20-1 — W20-2 — W20-3 — 120' — G20-2

R3-7(RT) — 75' — 12' MIN — R3-7(RT) — R9-3A

RIGHT LANE MUST TURN RIGHT R3-7(RT)

R9-3a

ROAD CLOSED AHEAD W20-3 — DETOUR AHEAD W20-2 — ROAD WORK AHEAD W20-1

VERMONT STREET — W20-1 — G20-2 — END ROAD WORK G20-2

85' — 250' — 245' BUFFER — 245' TAPER — UNIVERSITY AVENUE — BUS STOP

80' MIN. — 12' MIN — C30(CA) — FLASHING ARROW BOARD

R6-1(RT) — R3-5(LT) — 5 — 7 — R11-2 — 6 — 12' MIN — R9-3A — R4-7A — BUS STOP

R3-5(LT) — BUFFER — 200' BUFFER — 150' WORK ZONE — W1-4(RT) — 12' MIN

ONE WAY R6-1(RT) — ROAD CLOSED R11-2 — 100' REVERSE SHIFT TAPER

TENTH AVENUE — 85' — C12(CA) — R4-7A — R4-7A — 25' — W20-1

ONLY R3-5(LT) — WASHINGTON STREET — W20-1 — G20-2

NINTH AVENUE — 140' — C12(CA) — 150' — W20-1 — SR-163 S/B OFF RAMP

R4-7A — KEEP RIGHT — SR-163 N/B ON-RAMP — W1-4(RT)

NARROW LANE — C12(CA)

R4-7A — R4-7A — 2 — 50' — 100' SHIFT TAPER — W20-1

ESSEX STREET — G20-2

36" MIN.

ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY	R11-3a(MOD)
UNIVERSITY AVE-EASTBOUND	D3

R11-3A(MOD)/D3 (UNIV AVE-E/B)

C MATCHLINE-SEE ABOVE C

MATCHLINE-SEE DWG. TC-162

B B

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH"

LANE CLOSED C30 (CA)

G20-2 — 150' — W20-1 — ROAD WORK AHEAD W20-1

S -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

ONEIDA WAY — W5-1 — ROAD NARROWS W5-1 — 50' — W20-1 — 25' — W20-1

NARROW LANE C12(CA)

TENTH AVENUE — 150' — C12(CA) — 150' — G20-2 — W20-1

ROAD WORK AHEAD W20-1

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN CROSSWALK/WALKWAY. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE PEDESTRIAN CROSSWALK / WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER IN PEDESTRIAN AREAS.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
TENTH AVENUE	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

TC-166

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 98

CITY OF SAN DIEGO, CALIFORNIA
SHEET 166 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER AHMED ABURAHMAH
PRINT NAME DATE

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED
36656-T166-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306006-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 99

SEE DRAWING TC-168 FOR ACCOMPANYING DETOUR ROUTE

R4-7A KEEP → RIGHT

R3-2

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE DATE

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SEVENTH AVENUE

EIGHTH AVENUE

NINTH AVENUE

UNIVERSITY AVENUE

SR-163

END ROAD WORK G20-2

W20-1 G20-2 150' BUS STOP

W20-1 G20-2 150' BUS STOP

W20-1 G20-2 150' BUS STOP

R3-5(RT)

FLASHING ARROW BOARD

C30(CA) 5

C30(CA) 5 R3-5(RT) 5 C30(CA) R3-5(RT) 5

W20-5(LT) W4-2(LT) BUS STOP 7 25'

WHOLE FOODS

250' 165' 200' 180' TANGENT 230' TANGENT 100' SHIFT TAPER

W20-2 W20-1 W20-3 7 BUS STOP

150' G20-2 W20-1

150' G20-2 W20-1

EIGHTH AVENUE

75' SHIFT TAPER

90'

C30(CA) R3-2

W20-1 R4-7A G20-2

R61(MOD)

210' TANGENT/LEFT TU

R9-3A

12" MIN

R61(MOD) C30(CA) 6

R11-2 M4-10(RT) 14" MIN R9-3A 2

R50' 1

R4-7A 5 2

150' WORK ZONE

50' BUFFER

25'

R5-1/R5-1A R11-2 R3-1

TENTH AVE.

SR-163 N/B ON-RAMP

140'

A A

MATCHLINE-SEE DWG. TC-168

B B

MATCHLINE-SEE DWG. TC-168

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

DETOUR AHEAD W20-2

LANE CLOSED C30 (CA)

ROAD CLOSED AHEAD W20-3

ONLY R3-5(RT)

R61(MOD)

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

DETOUR M4-10(RT)

DO NOT ENTER R5-1

WRONG WAY R5-1A

R9-3a

ROAD CLOSED R11-2

R3-1

N W E S

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-W/O 6TH	25	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25-35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-167

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 99

CITY OF SAN DIEGO, CALIFORNIA
SHEET 167 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

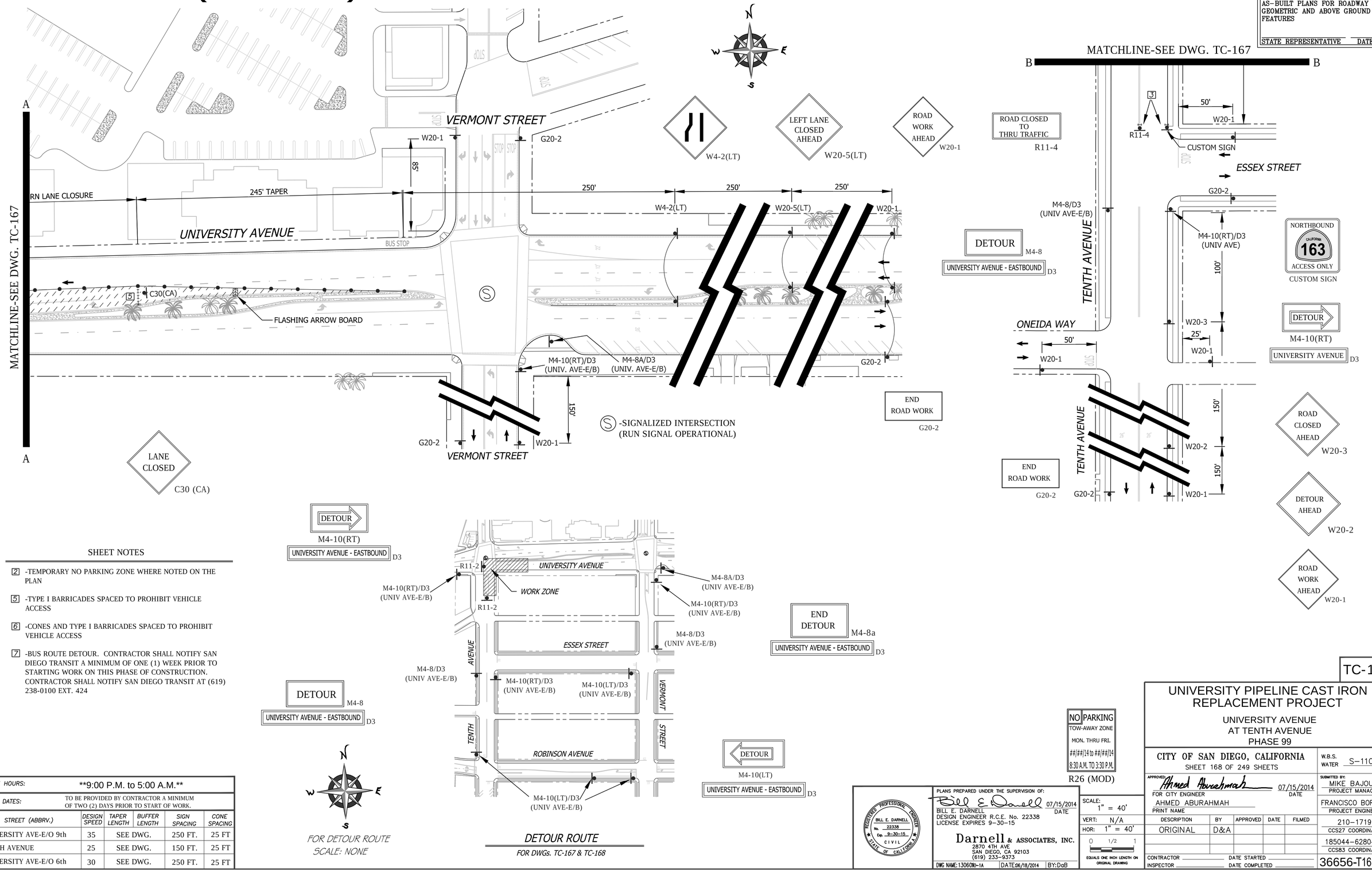
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T167-D

PHASE 99 (CONTINUED)

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
TENTH AVENUE	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-167 & TC-168

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-168

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 99

CITY OF SAN DIEGO, CALIFORNIA
SHEET 168 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T168-D

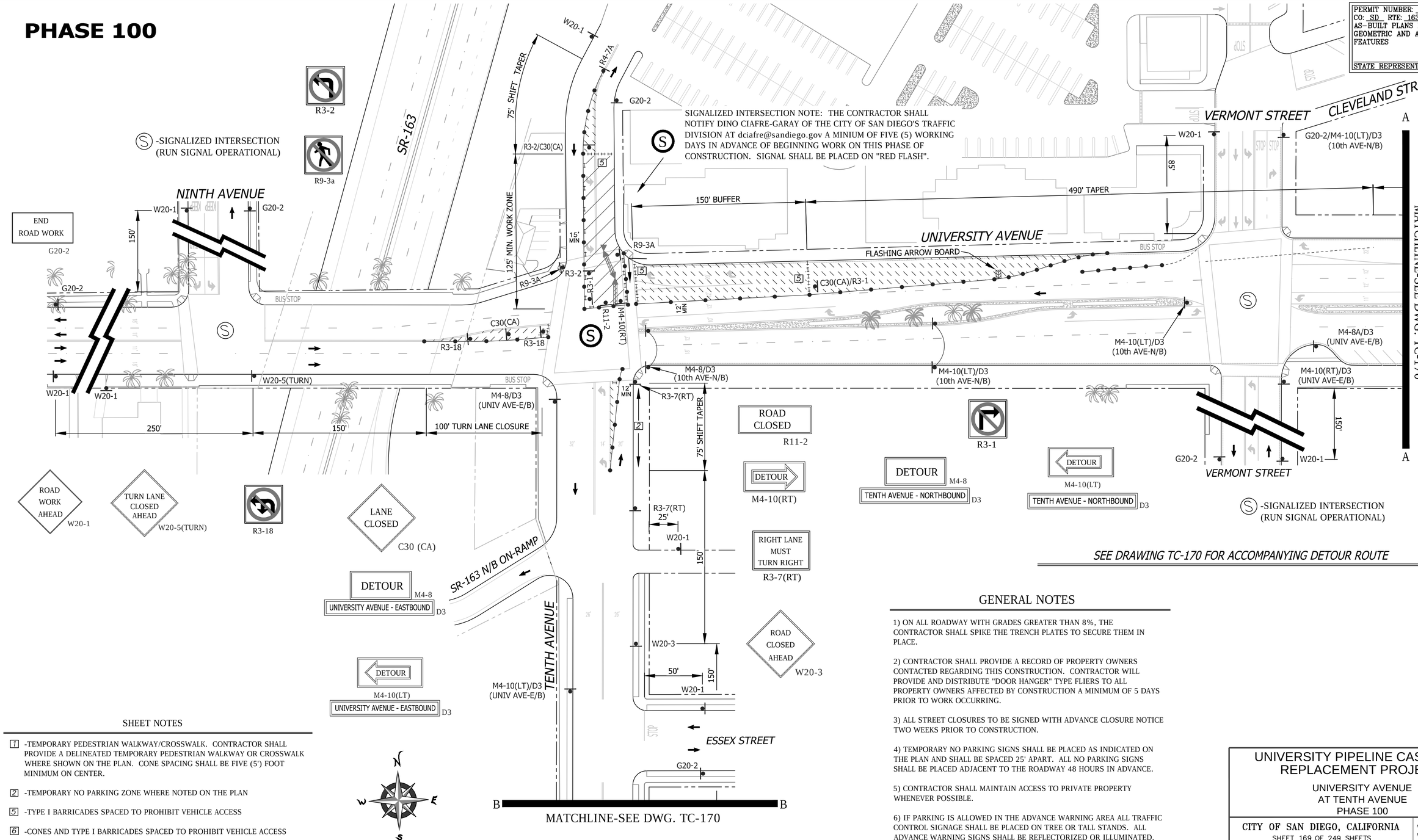
PHASE 100

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



ROAD WORK AHEAD W20-1

TURN LANE CLOSED AHEAD W20-5(TURN)

R3-18

LANE CLOSED C30 (CA)

SEE DRAWING TC-170 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A DELINEATED TEMPORARY PEDESTRIAN WALKWAY OR CROSSWALK WHERE SHOWN ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
TENTH AVENUE	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-169

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 100

CITY OF SAN DIEGO, CALIFORNIA
SHEET 169 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T169-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

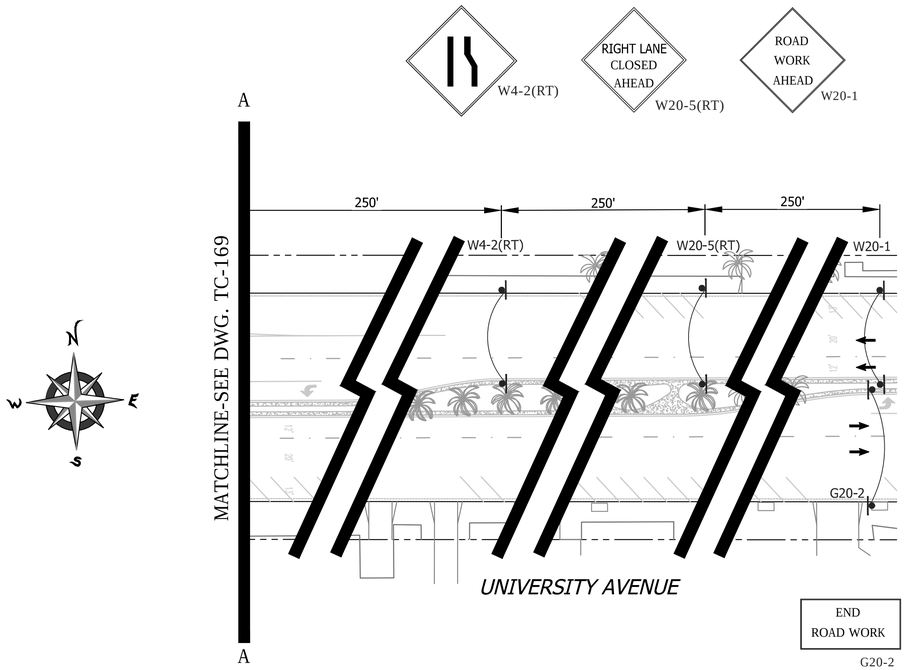
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

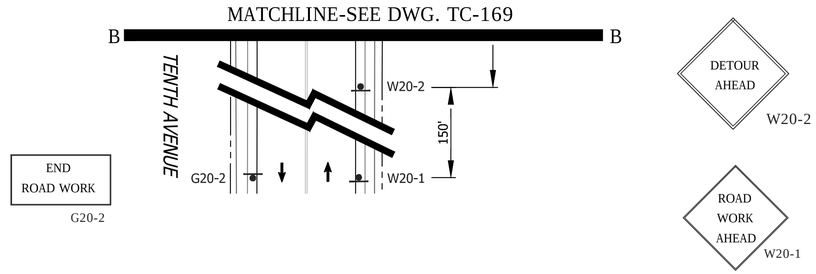
Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 100 (CONTINUED)





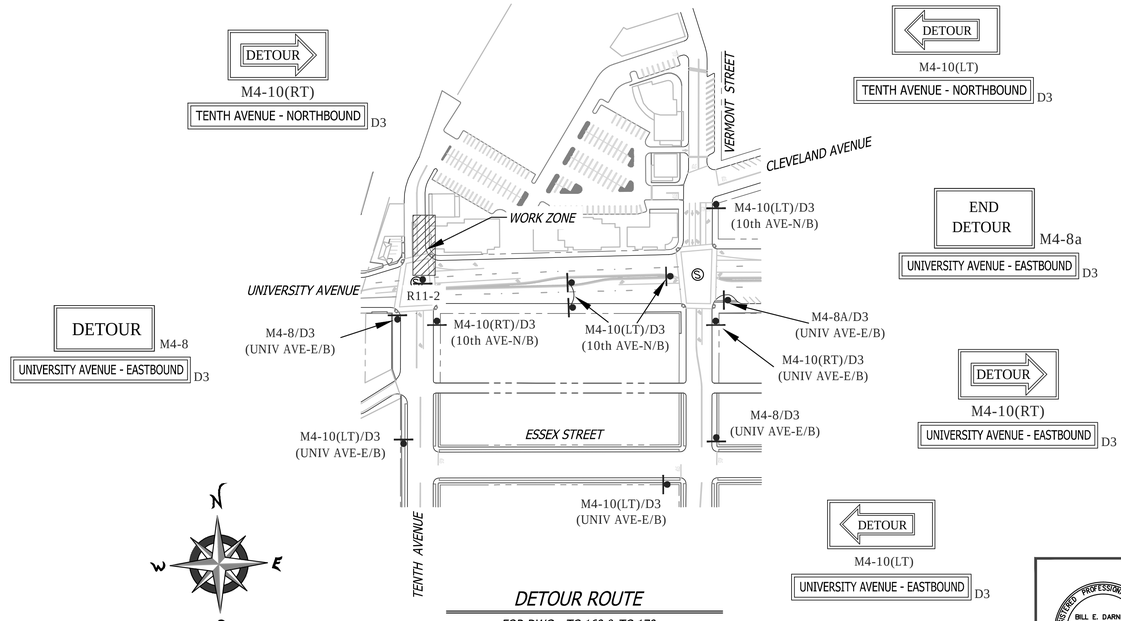
SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424



DETOUR ROUTE

FOR DWGs. TC-169 & TC-170

FOR DETOUR ROUTE
SCALE: NONE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
TENTH AVENUE	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O 6th	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/18/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-170

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TENTH AVENUE
PHASE 100

CITY OF SAN DIEGO, CALIFORNIA
SHEET 170 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

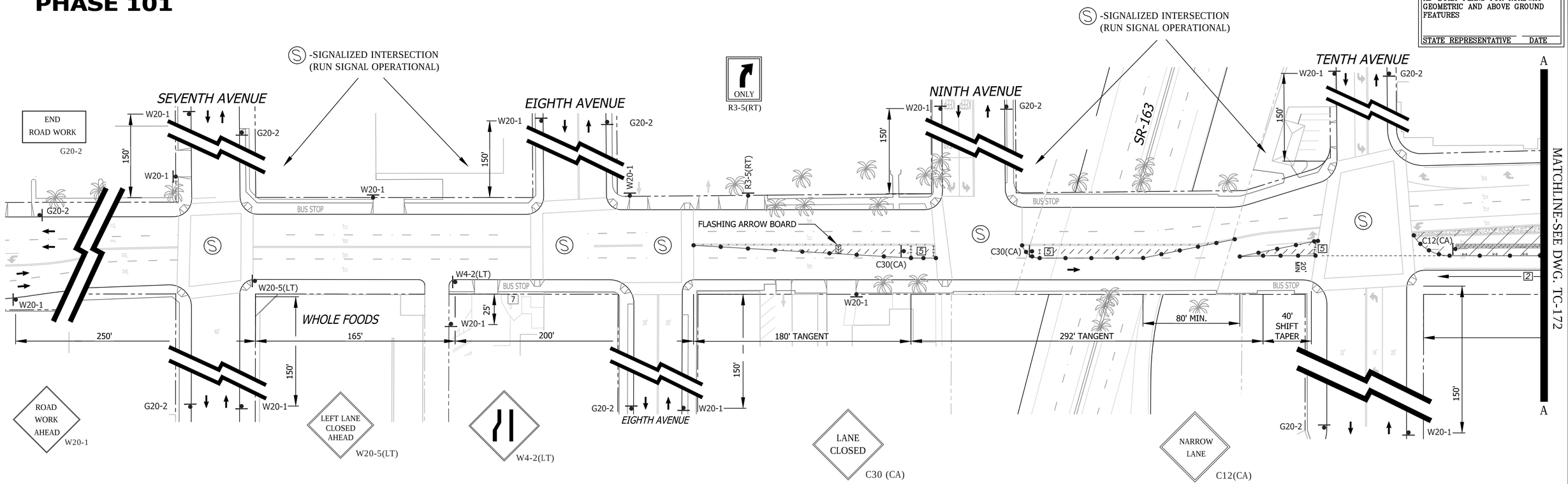
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T170-D

PHASE 101

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SEE DRAWING TC-172 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
CROSS STREETS	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-171

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TENTH AVENUE TO VERMONT STREET
PHASE 101

CITY OF SAN DIEGO, CALIFORNIA
SHEET 171 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

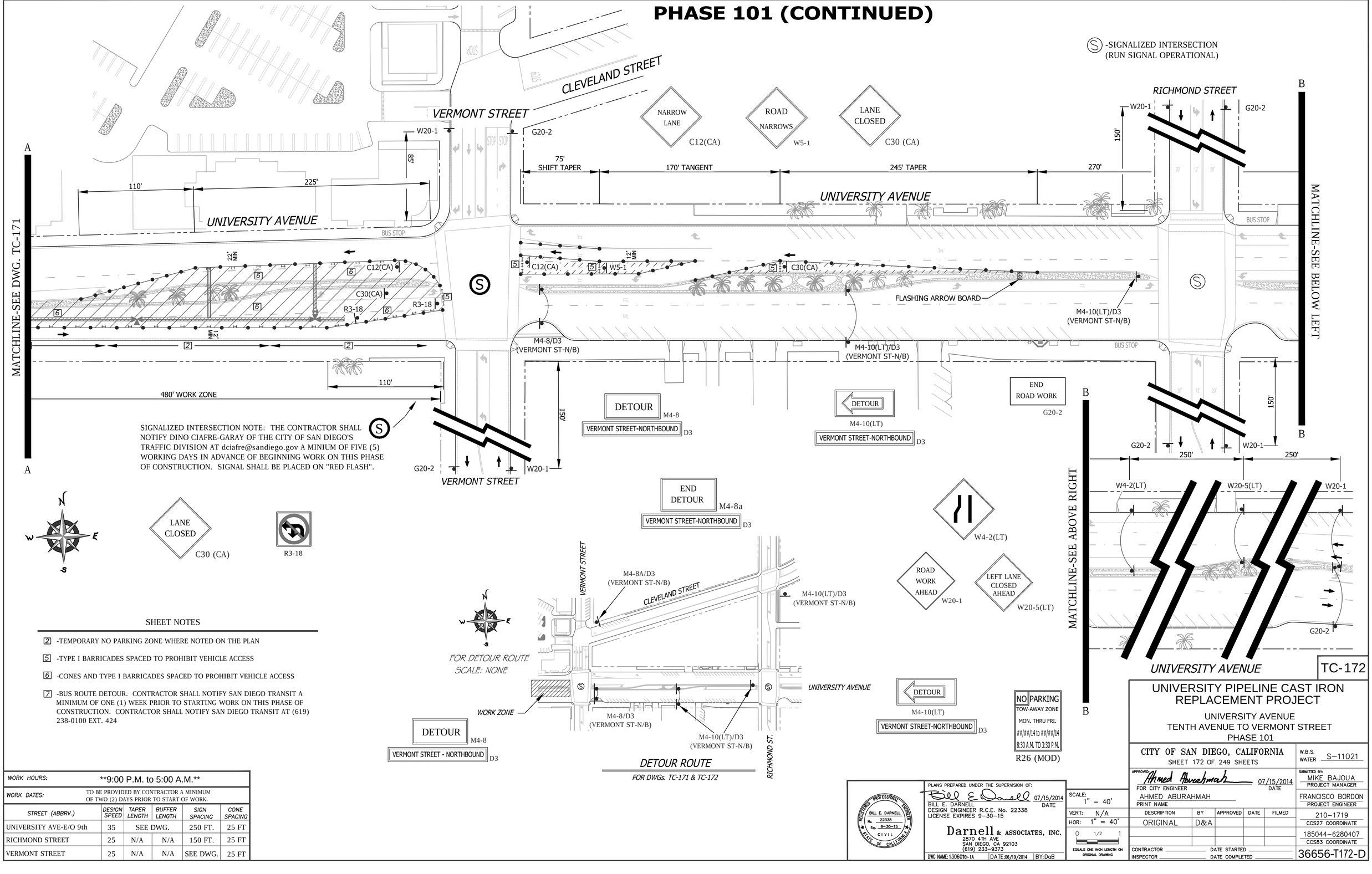
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T171-D

PHASE 101 (CONTINUED)

Ⓢ -SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

LANE CLOSED
C30 (CA)

R3-18

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS ROUTE DETOUR. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT
RICHMOND STREET	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601e-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-172

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TENTH AVENUE TO VERMONT STREET
PHASE 101

CITY OF SAN DIEGO, CALIFORNIA
SHEET 172 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

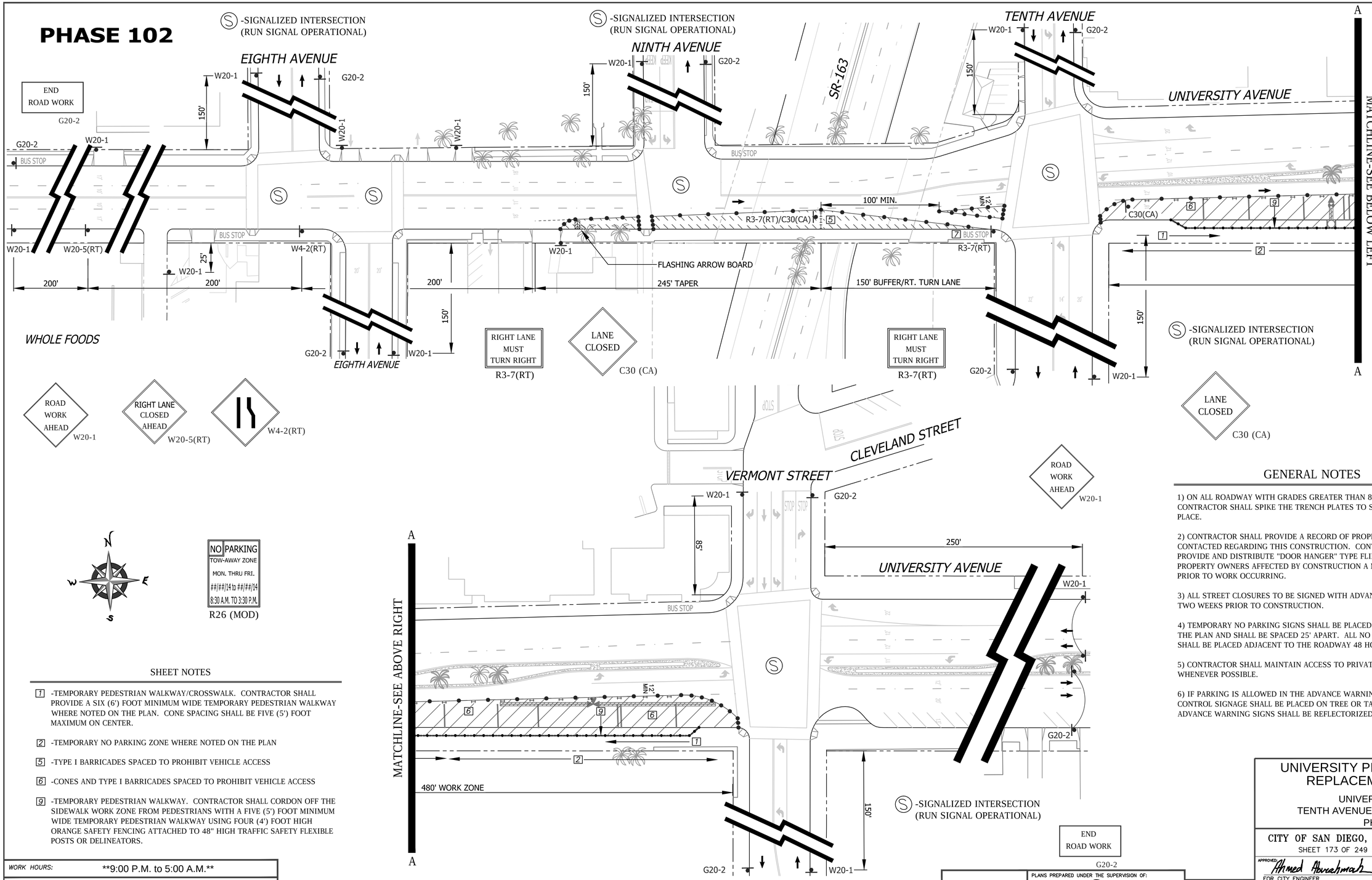
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T172-D

PHASE 102

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O 6TH	30	SEE DWG.		200 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

TC-173

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TENTH AVENUE TO VERMONT STREET
PHASE 102

CITY OF SAN DIEGO, CALIFORNIA
SHEET 173 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah FOR CITY ENGINEER 07/15/2014 DATE
AHMED ABURAHMAH PRINT NAME

SUBMITTED BY: MIKE BAJOUA PROJECT MANAGER
FRANCISCO BORDON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T173-D

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 103

SEE DRAWING TC-175 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-175

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

NARROW LANE
C12(CA)

W1-4 (LT)

RIGHT LANE MUST TURN RIGHT
R3-7(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

END ROAD WORK
G20-2

NINTH AVENUE

TENTH AVENUE

SR-163

UNIVERSITY AVENUE

CLEVELAND STREET

VERMONT STREET

W20-1 G20-2 W20-5(RT) W4-2(RT) C30(CA) R3-1 R9-3A R4-7A R3-7(RT) W1-4(LT) W1-4(RT) R9-3A R61(MOD) M4-8/D3 (VERMONT ST-S/B) C12(CA) W20-1 W20-5(RT) W20-1 W4-2(RT) W20-1 G20-2 W20-1 G20-2 W20-1 G20-2 W20-1 G20-2

214'-SPACE SIGNS

125' SHIFT TAPER

150' 150' 150' 150'

50' 50' 30' 25' 25' 75'

12' MIN

250' 250' 200' 250' 325' TAPER 100' BUFFER 125' MIN. WORK ZONE

125' REVERSE SHIFT TAPER/BUFFER

BUS STOP

FLASHING ARROW BOARD

LANE CLOSED
C30 (CA)

R3-1

R9-3a

KEEP RIGHT

ROAD WORK AHEAD
W20-1

RIGHT LANE CLOSED AHEAD
W20-5(RT)

W4-2(RT)

W1-4(RT)

W20-1 25'

MATCHLINE-SEE DWG. TC-175

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306009-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-174

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 103

CITY OF SAN DIEGO, CALIFORNIA
SHEET 174 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

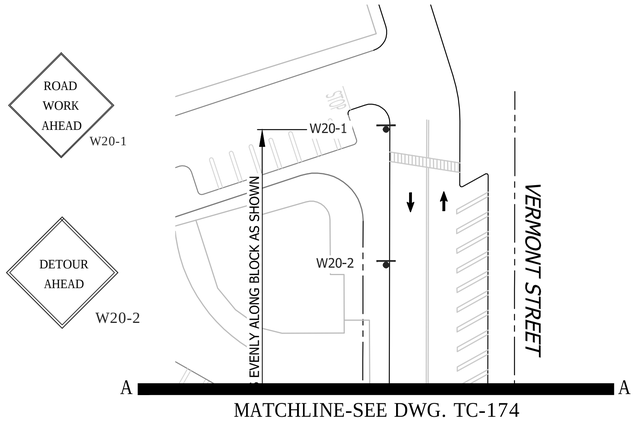
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T174-D

PHASE 103 (CONTINUED)



MATCHLINE-SEE DWG. TC-174

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

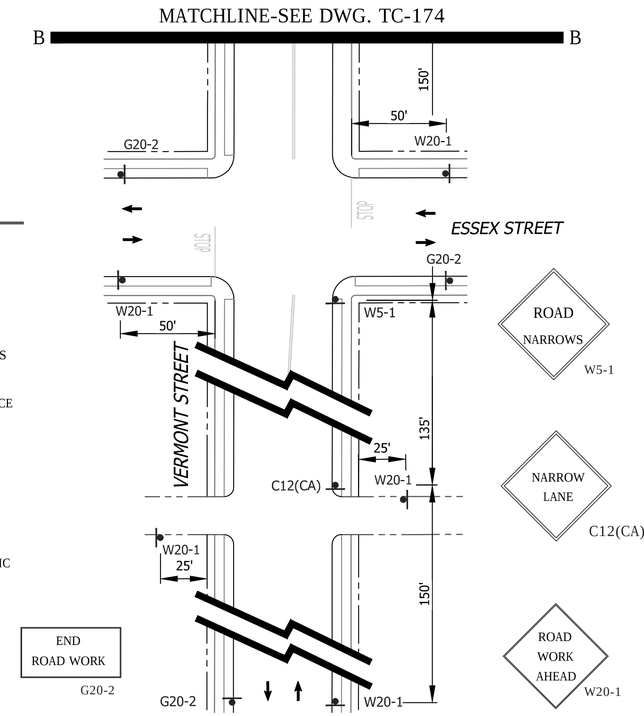
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



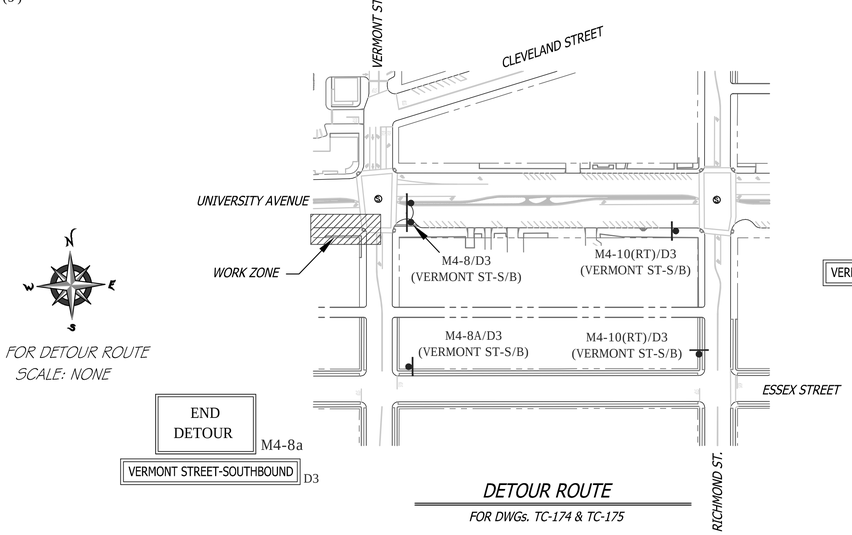
SHEET NOTES

7 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

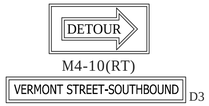
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



DETOUR ROUTE

FOR DWGs. TC-174 & TC-175

FOR DETOUR ROUTE
SCALE: NONE



NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-175

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 103

CITY OF SAN DIEGO, CALIFORNIA
SHEET 175 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

36656-T175-D

PHASE 104

SEE DRAWING TC-177 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-177

PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

END ROAD WORK
G20-2

NINTH AVENUE
TENTH AVENUE
UNIVERSITY AVENUE
CLEVELAND STREET
VERMONT STREET

W20-1
G20-2
W20-5(RT)
W4-2(RT)
R61(MOD)
W1-4(RT)
W5-1
R4-7A
R9-3A
R3-4
R3-1
R9-3a
M4-10(RT)
M4-10(RT)/D3 (UNIV AVE-E/B)
UNIVERSITY AVENUE - EASTBOUND D3
DETOUR
R3-7(RT)/C30(CA)
R3-7(RT)
FLASHING ARROW BOARD
C30(CA)
LANE CLOSED
C30 (CA)
RIGHT LANE MUST TURN RIGHT
R3-7(RT)
KEEP → RIGHT
ROAD NARROWS
ROAD WORK AHEAD
RIGHT LANE CLOSED AHEAD
210'-SPACE SIGNS
BUS STOP
STOP

200' 260' 250' 325' TAPER 150' BUFFER/RT. TURN LANE
150' 150' 75' 85' BUFFER 50' 18' MIN. 85' REV. SHIFT TAPER 250' 90' MIN. 12' MIN 85' W.Z. 135' WORK ZONE 75' BUFFER 25' 65' TEMP. NO PKG. ZONE 150' SHIFT TAPER

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN THIS SHEET)

MATCHLINE-SEE DWG. TC-177

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-176

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 104

CITY OF SAN DIEGO, CALIFORNIA
SHEET 176 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

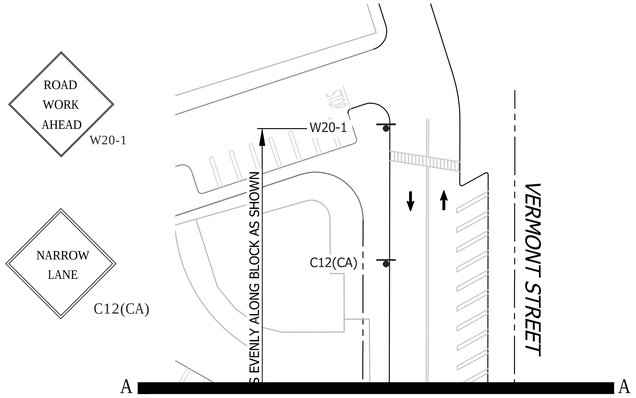
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

36656-T176-D

PHASE 104 (CONTINUED)



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

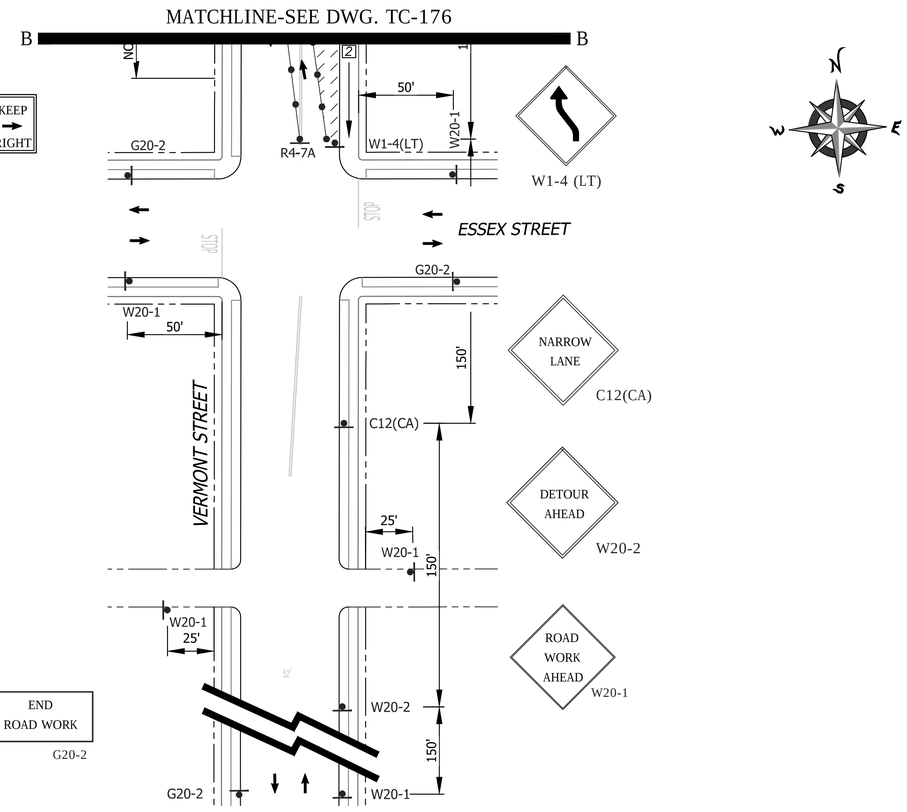
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



SHEET NOTES

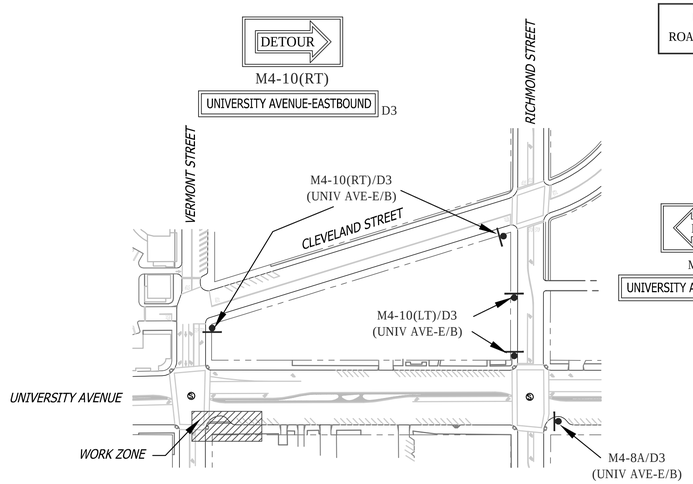
[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

FOR DETOUR ROUTE
SCALE: NONE



END
ROAD WORK
G20-2

DETOUR
M4-10(LT)
UNIVERSITY AVENUE-EASTBOUND
D3

END
DETOUR
M4-8a
UNIVERSITY AVENUE-EASTBOUND
D3

DETOUR ROUTE

FOR DWGs. TC-176 & TC-177

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-177

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 104

CITY OF SAN DIEGO, CALIFORNIA
SHEET 177 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T177-D

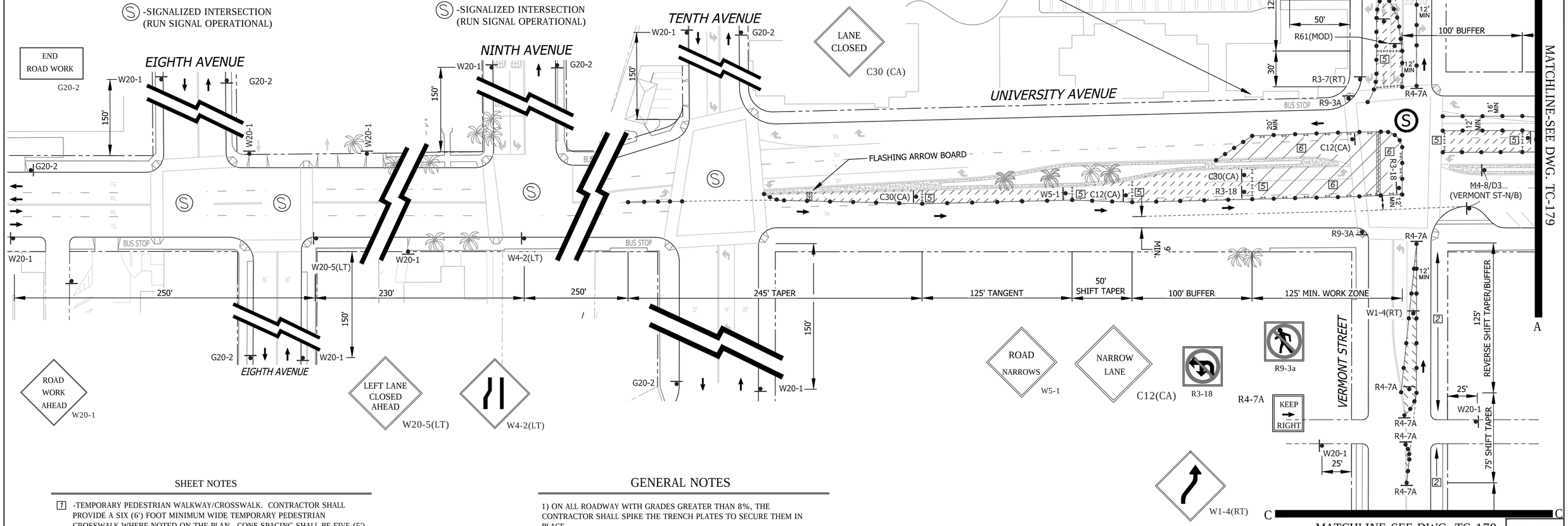
PHASE 105

SEE DRAWING TC-179 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



MATCHLINE-SEE DWG. TC-179

TC-178

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 105

CITY OF SAN DIEGO, CALIFORNIA
SHEET 178 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

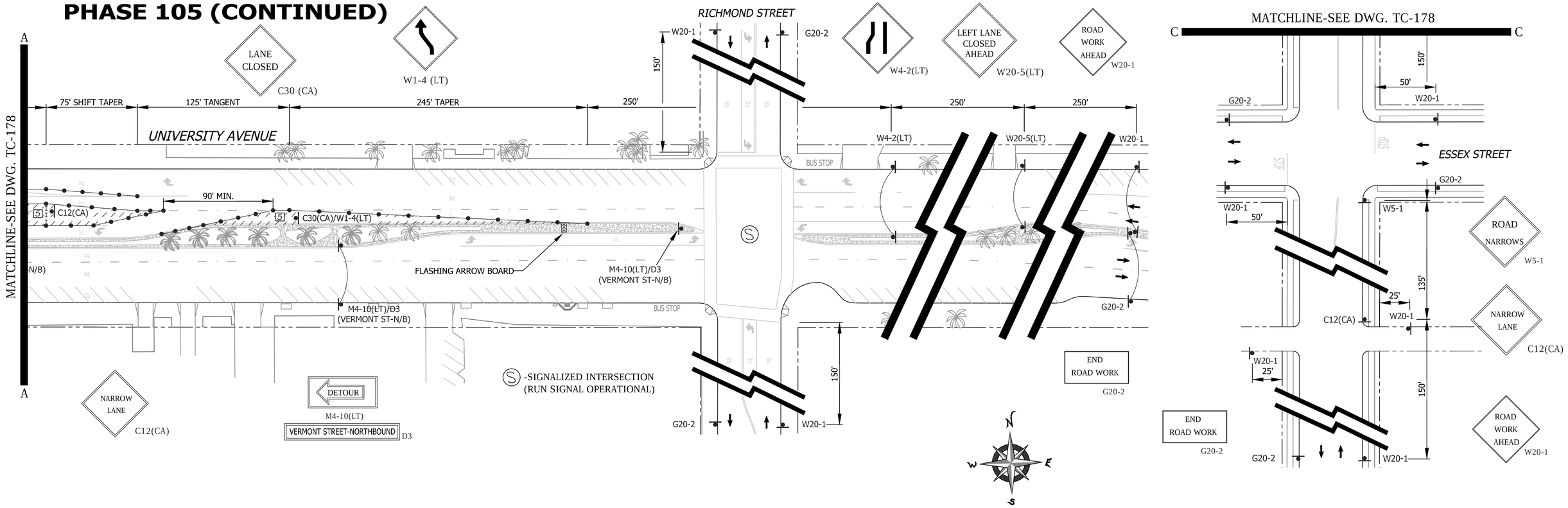
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

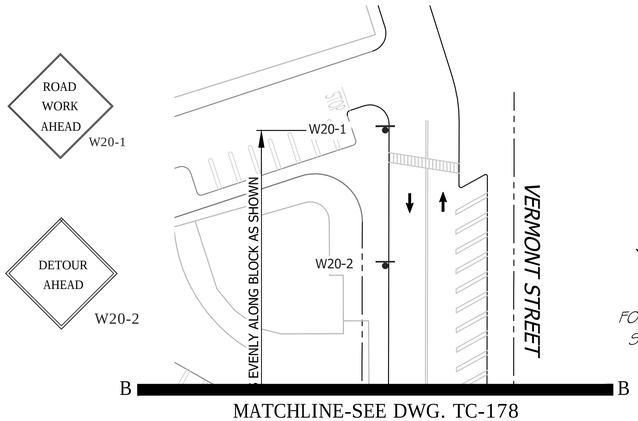
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T178-D

PHASE 105 (CONTINUED)

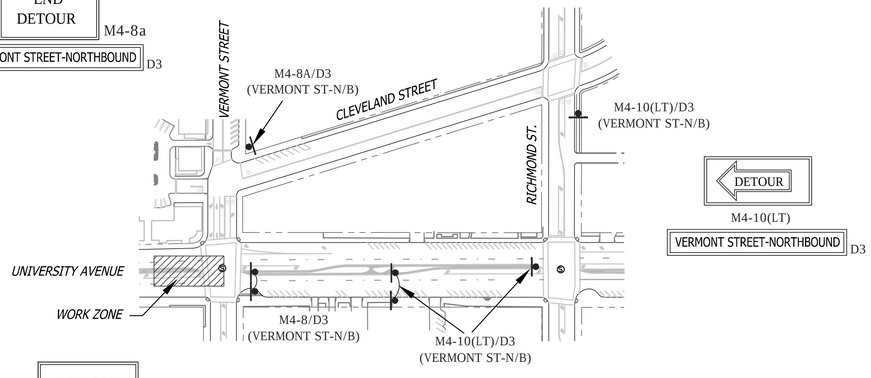




MATCHLINE-SEE DWG. TC-178

FOR DETOUR ROUTE
SCALE: NONE

END DETOUR
M4-8a
VERMONT STREET-NORTHBOUND
D3



DETOUR
M4-10(LT)
VERMONT STREET-NORTHBOUND
D3

DETOUR
M4-8
VERMONT STREET-NORTHBOUND
D3

DETOUR ROUTE

FOR DWGs. TC-178 & TC-179

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tb-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-179

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 105

CITY OF SAN DIEGO, CALIFORNIA
SHEET 179 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

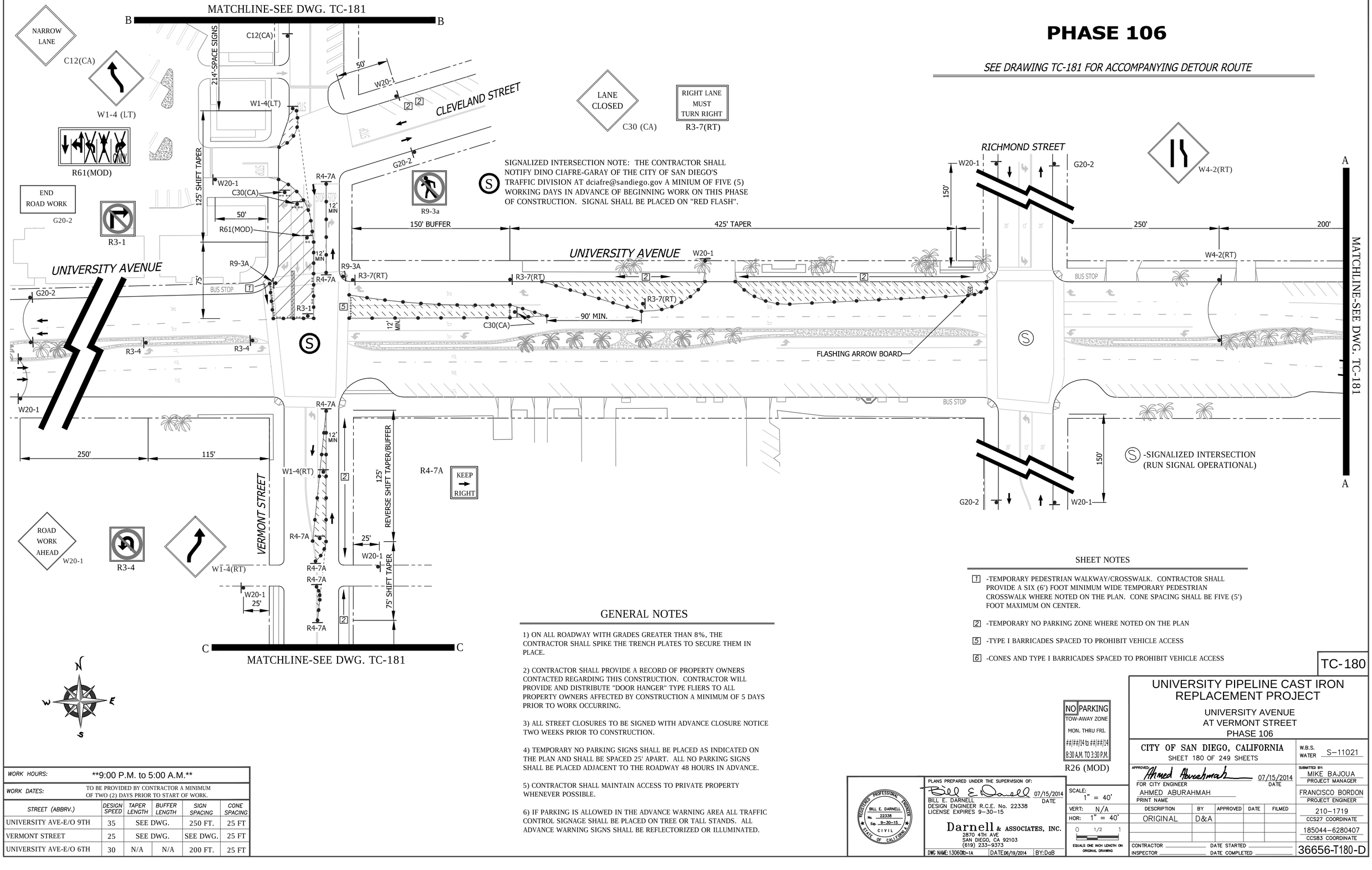
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T179-D

PHASE 106

SEE DRAWING TC-181 FOR ACCOMPANYING DETOUR ROUTE



SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 106

CITY OF SAN DIEGO, CALIFORNIA
SHEET 180 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

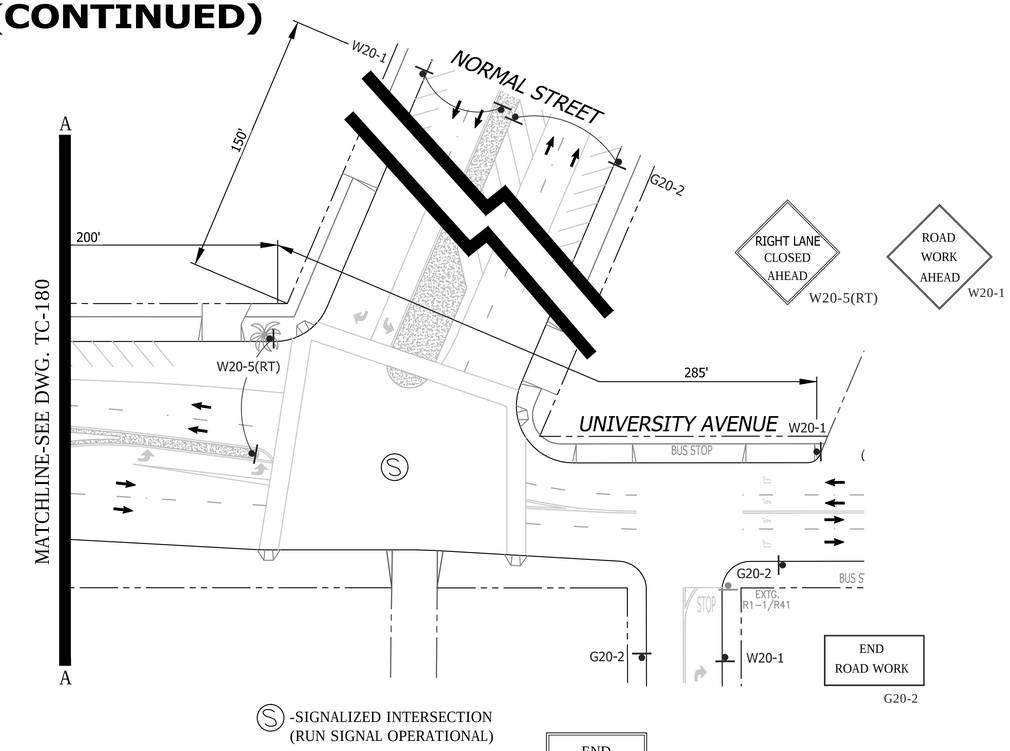
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

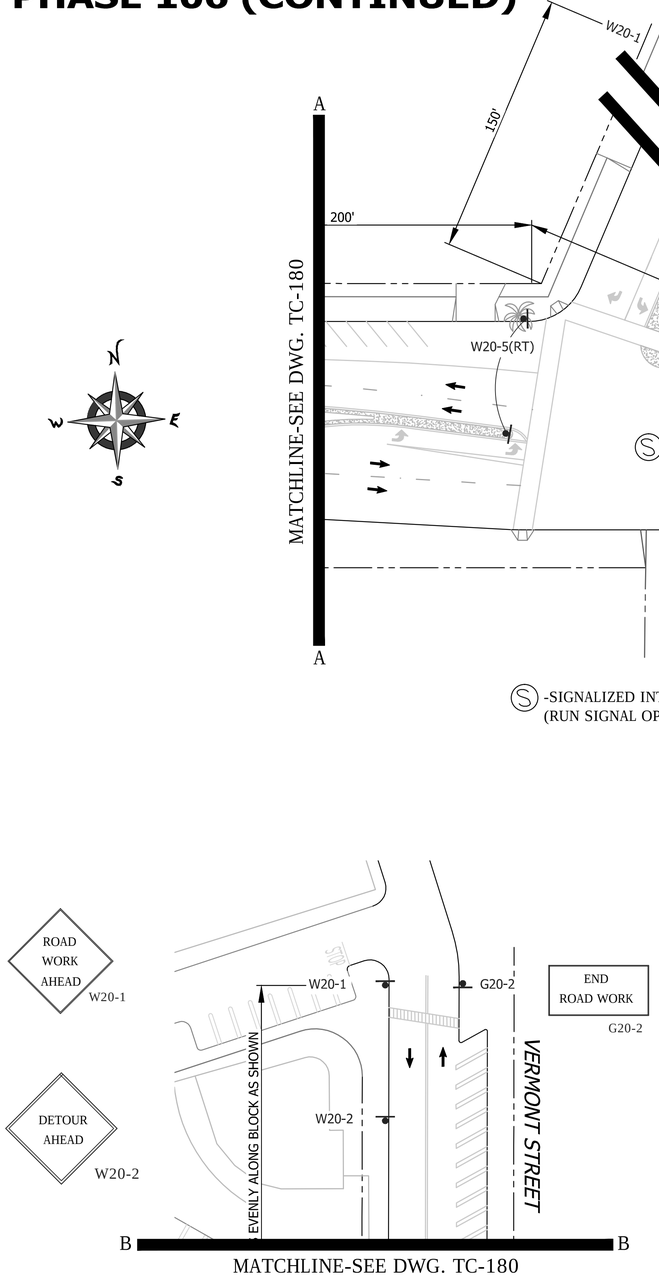
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

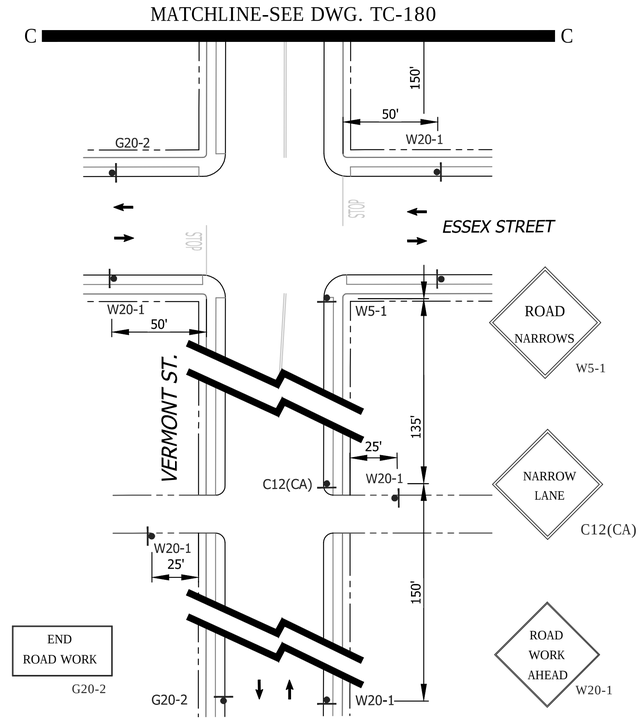
TC-180

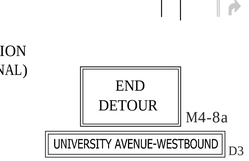
36656-T180-D

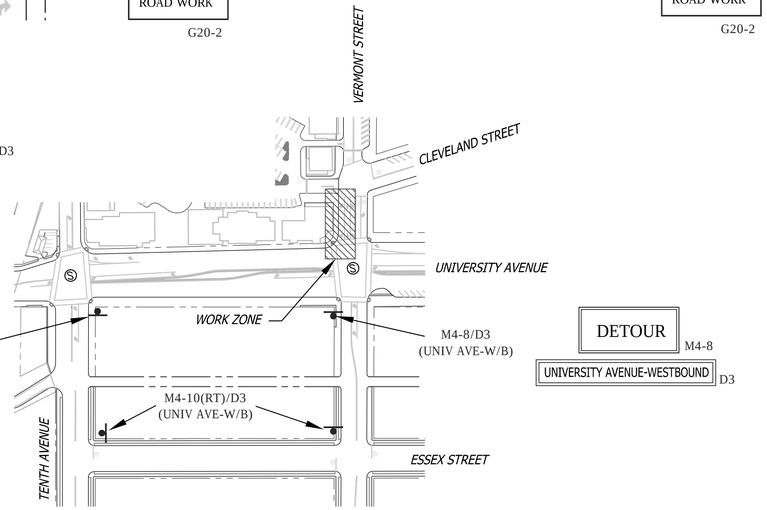
PHASE 106 (CONTINUED)











FOR DETOUR ROUTE
SCALE: NONE

DETOUR
M4-8
UNIVERSITY AVENUE-WESTBOUND
D3

DETOUR
M4-10(RT)
UNIVERSITY AVENUE-WESTBOUND
D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

DETOUR ROUTE

FOR DWGs. TC-180 & TC-181

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 6th	30	N/A	N/A	200 FT.	25 FT
VERMONT STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-181

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT VERMONT STREET
PHASE 106

CITY OF SAN DIEGO, CALIFORNIA
SHEET 181 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T181-D

PHASE 107

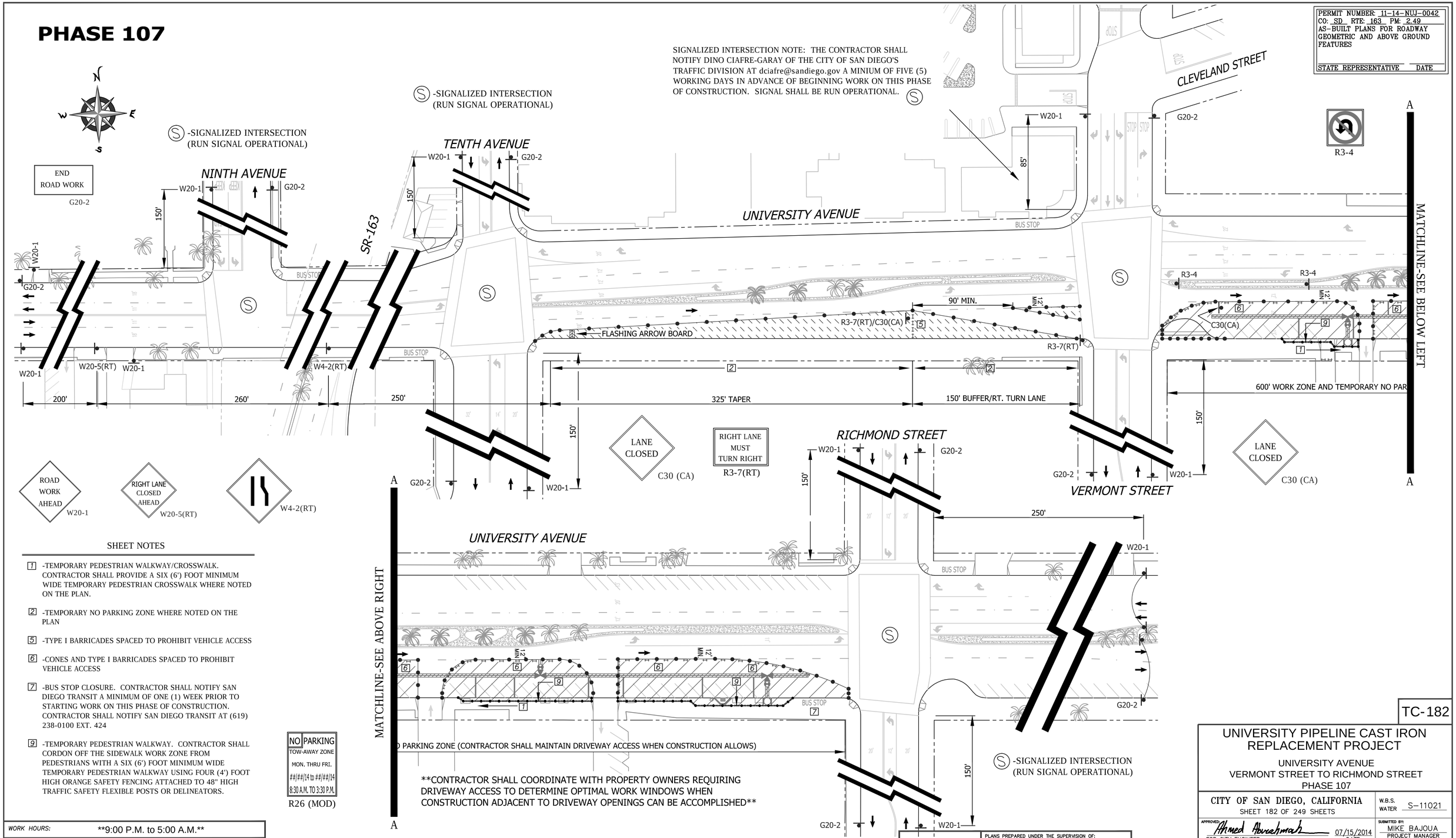
PERMIT NUMBER: 11-14-NUJ-0042
CO: SD RTE: 163 PM: 2.49
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE RUN OPERATIONAL. (S)

(S) -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

(S) -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)



ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 6TH	30	N/A	N/A	200 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-182

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
VERMONT STREET TO RICHMOND STREET
PHASE 107

CITY OF SAN DIEGO, CALIFORNIA
SHEET 182 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T182-D

PHASE 108

SEE DRAWING TC-184 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-184

NARROW LANE C12(CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

END ROAD WORK G20-2

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

CLEVELAND STREET

UNIVERSITY AVENUE

RICHMOND STREET

240' TEMP. NO PKG. ZONE ON BOTH SIDES OF THE STREET

125' SHIFT TAPER

115' RT. TURN LANE

W20-1 G20-2 85' BUS STOP

G20-2 W20-1 W20-5(RT) W4-2(RT) 250' 250' 250'

FLASHING ARROW BOARD

400' TAPER 500' TEMPORARY NO PARKING ZONE 100' BUFFER 125' MIN. WORK ZONE

C30(CA) R3-1 R4-7A BUS STOP

R3-7(RT) R4-7A C12(CA)/R3-7(RT) 12' MIN. 25' W20-1 R3-5(RT) ONLY R3-5(RT) R4-7A KEEP RIGHT 250' W20-1 BUS STOP C12(CA) M4-8/D3 (RICHMOND ST-S/B) G20-2

W1-4(RT) 12' MIN R4-7A R4-7A's W20-1 25' R4-7A 125' 100' SHIFT TAPER 225' TEMPORARY NO PARKING ZONE 50'

DETOUR M4-8 RICHMOND STREET - SOUTHBOUND D3

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

VERMONT STREET 150'

LANE CLOSED C30 (CA)

R3-1

W1-4(RT)

MATCHLINE-SEE DWG. TC-184

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-183

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 108

CITY OF SAN DIEGO, CALIFORNIA
SHEET 183 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

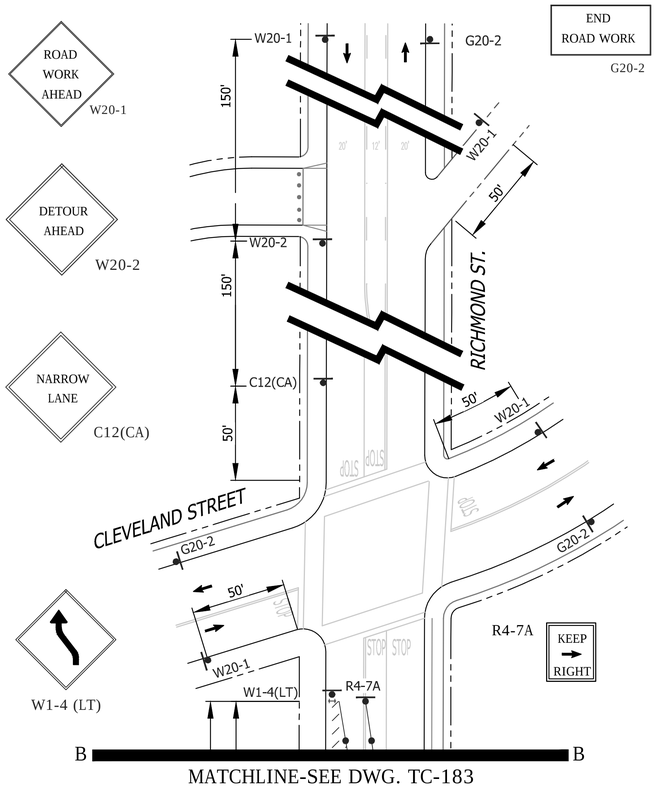
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

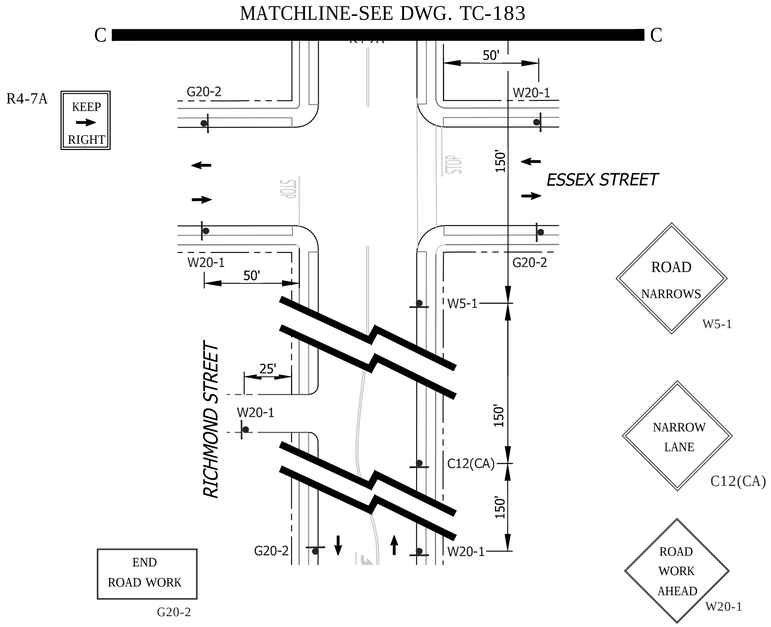
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T183-D

PHASE 108 (CONTINUED)





NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

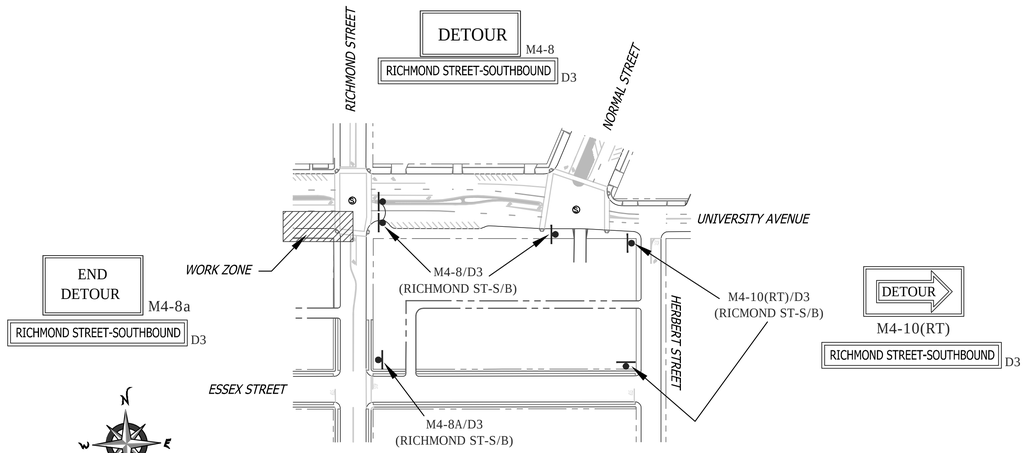
SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-183 & TC-184

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601D-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-184

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 108

CITY OF SAN DIEGO, CALIFORNIA
SHEET 184 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

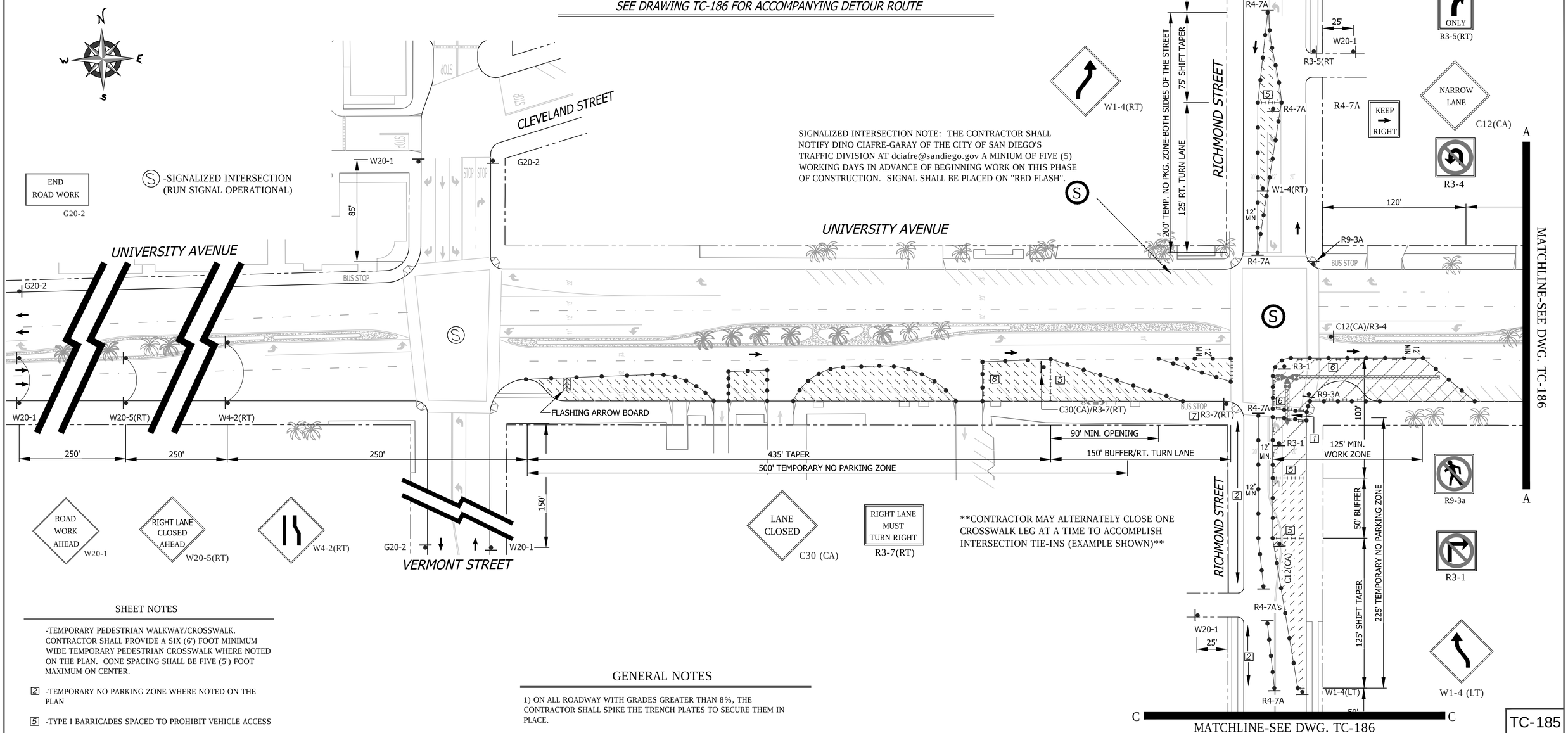
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T184-D

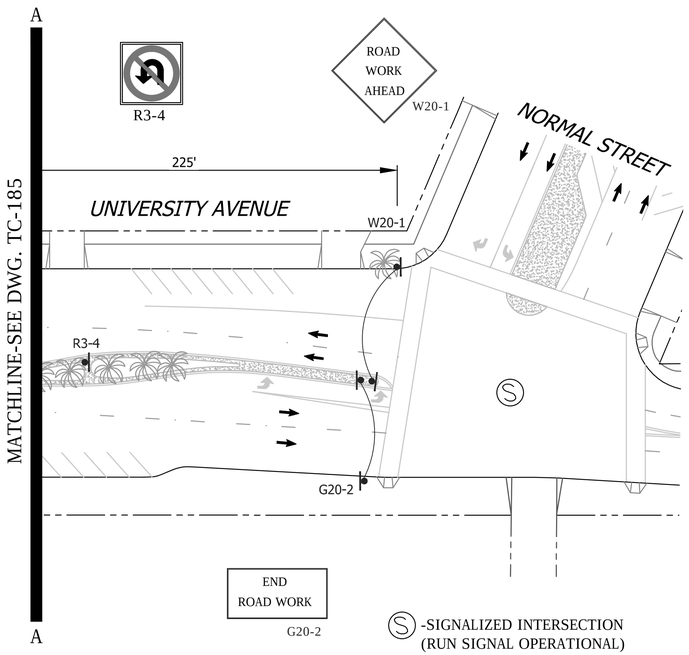
PHASE 109

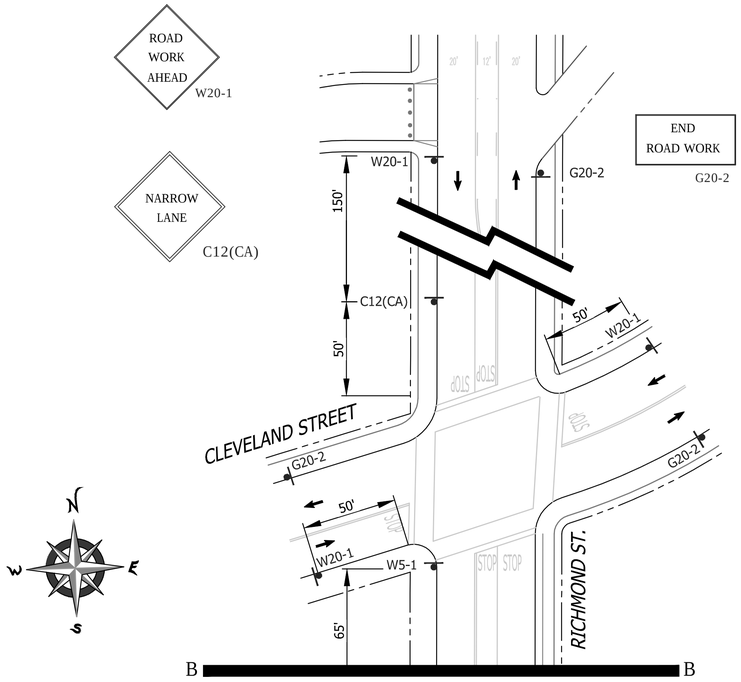
SEE DRAWING TC-186 FOR ACCOMPANYING DETOUR ROUTE

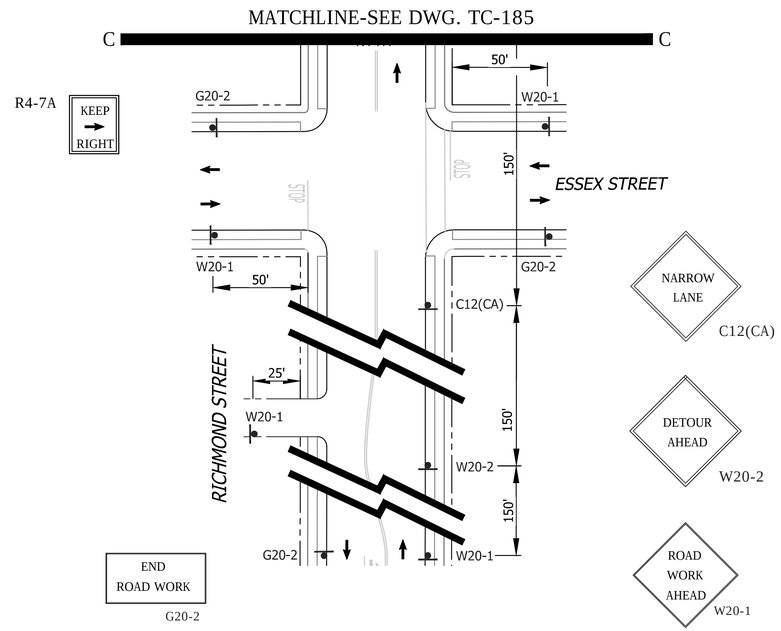
MATCHLINE-SEE DWG. TC-186


B
B
A
A
C
C
CLEVELAND STREET
UNIVERSITY AVENUE
RICHMOND STREET
VERMONT STREET
W20-1
G20-2
85'
STOP
STOP
STOP
BUS STOP
W1-4(RT)
200' TEMP. NO PKG. ZONE-BOTH SIDES OF THE STREET
75' SHIFT TAPER
125' RT. TURN LANE
R4-7A
25'
W20-1
R3-5(RT)
ONLY
R3-5(RT)
NARROW LANE
C12(CA)
KEEP RIGHT
R3-4
120'
R9-3A
12' MIN.
C12(CA)/R3-4
R3-1
R9-3A
100'
125' MIN. WORK ZONE
50' BUFFER
125' SHIFT TAPER
225' TEMPORARY NO PARKING ZONE
R9-3a
R3-1
W1-4 (LT)
R4-7A's
W20-1
25'
W1-4(LT)
50'
C12(CA)
W20-1
W20-5(RT)
W4-2(RT)
250'
250'
250'
435' TAPER
500' TEMPORARY NO PARKING ZONE
150'
FLASHING ARROW BOARD
C30(CA)/R3-7(RT)
R3-7(RT)
90' MIN. OPENING
150' BUFFER/RT. TURN LANE
BUS STOP
R4-7A
R4-7A
R4-7A

PHASE 109 (CONTINUED)







GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

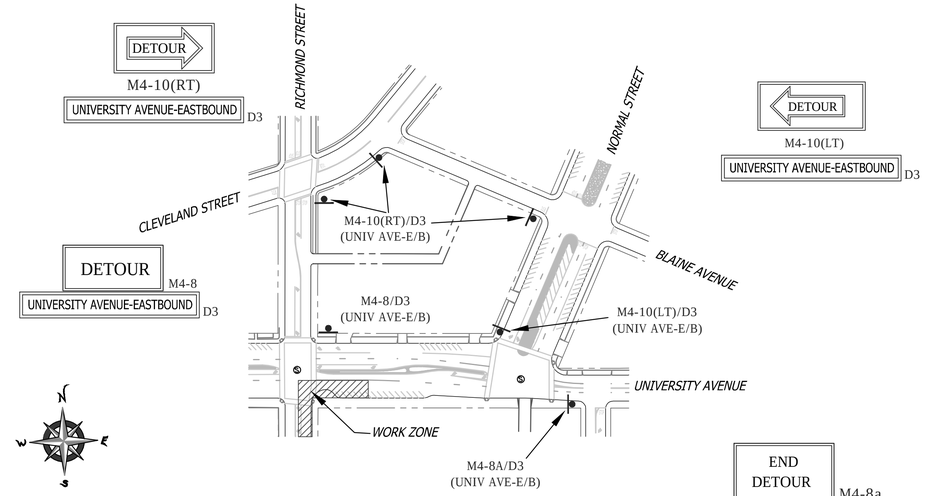
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-185 & TC-186

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130607tc-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-186

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 109

CITY OF SAN DIEGO, CALIFORNIA
SHEET 186 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T186-D

PHASE 110

SEE DRAWING TC-188 FOR ACCOMPANYING DETOUR ROUTE

MATCHLINE-SEE DWG. TC-188

NARROW LANE C12(CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

END ROAD WORK G20-2

Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

CLEVELAND STREET

G20-2

W20-1

85'

STOP

UNIVERSITY AVENUE

BUS STOP

G20-2

W20-1 W20-5(LT) W4-2(LT)

250' 250' 250'

FLASHING ARROW BOARD

245' TAPER 125' TANGENT 75' SHIFT TAPER 100' BUFFER 125' MIN. WORK ZONE

175' TEMPORARY NO PARKING ZONE

150'

G20-2 W20-1

VERMONT STREET

RICHMOND STREET

240' TEMP. NO PKG. ZONE ON BOTH SIDES OF THE STREET

125' SHIFT TAPER

115' RT. TURN LANE

25'

W20-1

R3-5(RT)

ONLY

R3-5(RT)

C12(CA)/R3-7(RT)

12' MIN.

R4-7A

KEEP RIGHT

R3-7(RT)

R9-3A

24' MIN.

C12(CA)

C30(CA)

W5-1

R3-18

12' MIN.

75' BUFFER

75' SHIFT TAPER

M4-8/D3 (RICHMOND ST-N/B)

W1-4(RT)

125'

100' SHIFT TAPER

225' TEMPORARY NO PARKING ZONE

R4-7A's

W20-1 25'

50'

DETOUR M4-8

RICHMOND STREET - NORTHBOUND D3

MATCHLINE-SEE DWG. TC-188

ROAD WORK AHEAD W20-1

LEFT LANE CLOSED AHEAD W20-5(LT)

W4-2(LT)

LANE CLOSED C30 (CA)

ROAD NARROWS W5-1

NARROW LANE C12(CA)

R3-18

R9-3a

W1-4(RT)

SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600b-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 110

CITY OF SAN DIEGO, CALIFORNIA
SHEET 187 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T187-D

TC-187

PHASE 110 (CONTINUED)

SHEET NOTES

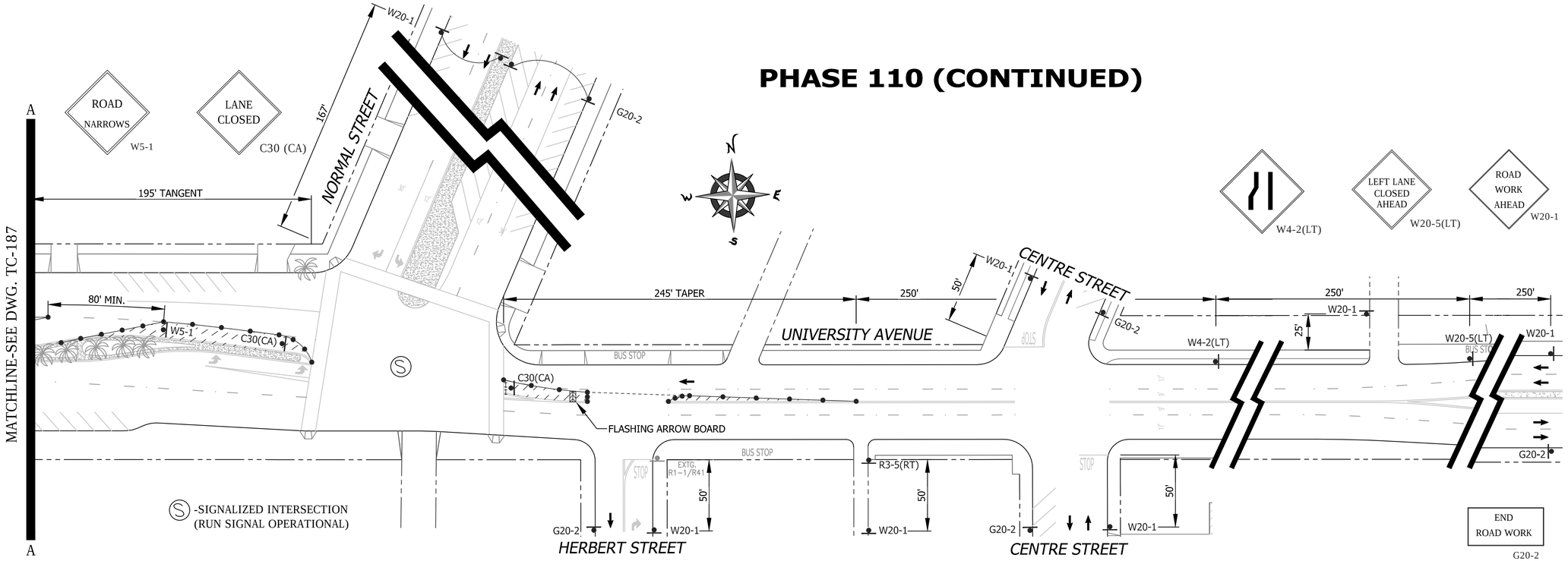
1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

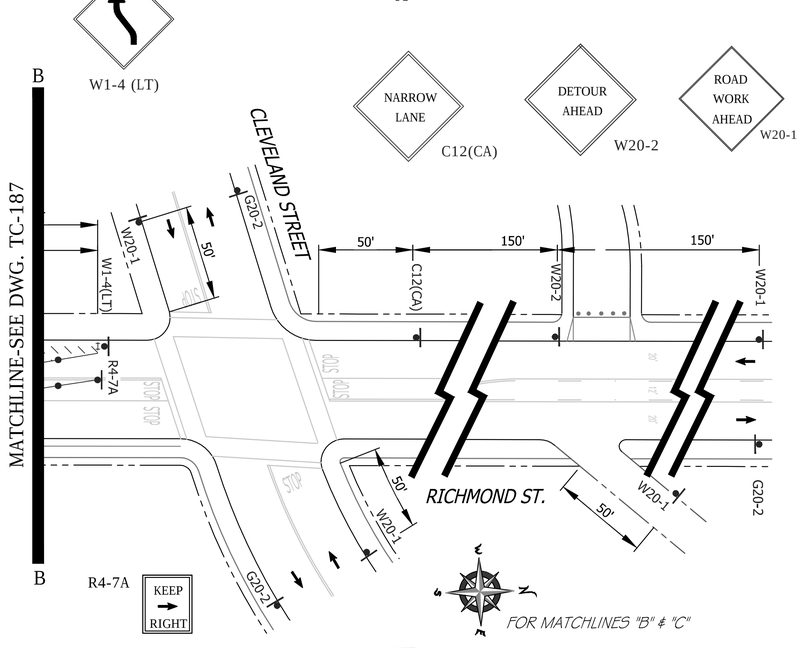
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

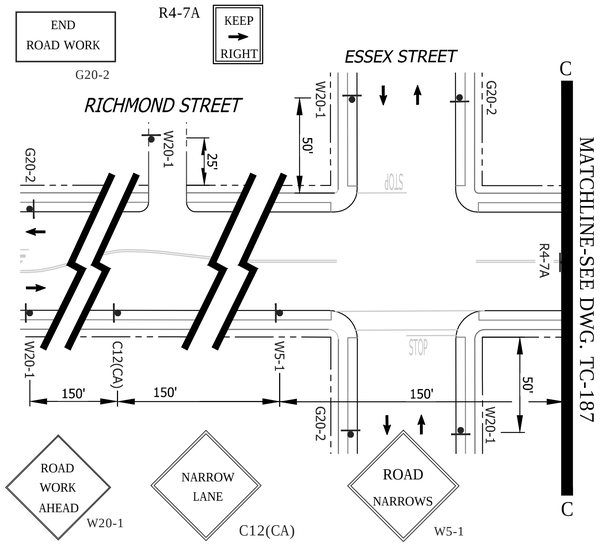
5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

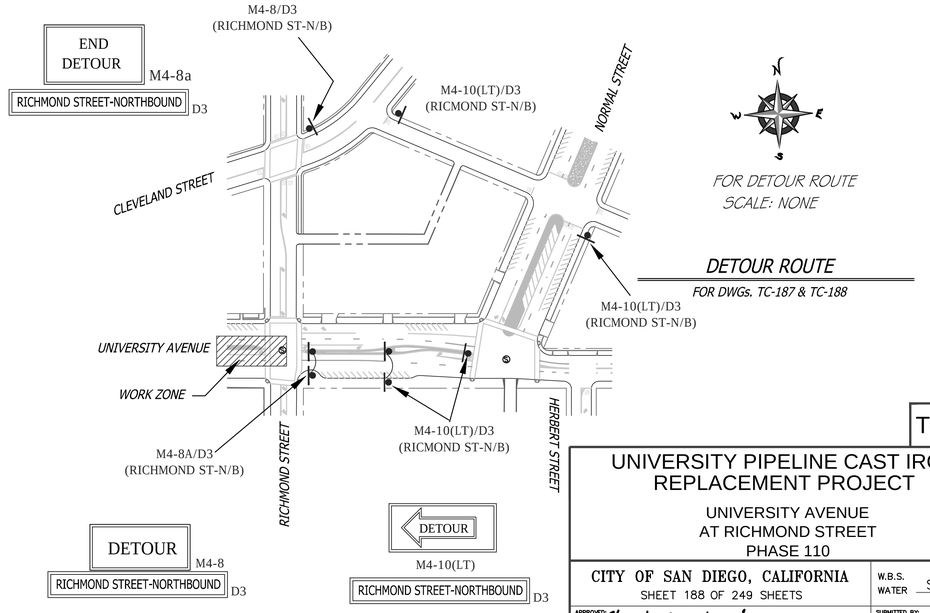
6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)









WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130600-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-188

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 110

CITY OF SAN DIEGO, CALIFORNIA
SHEET 188 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

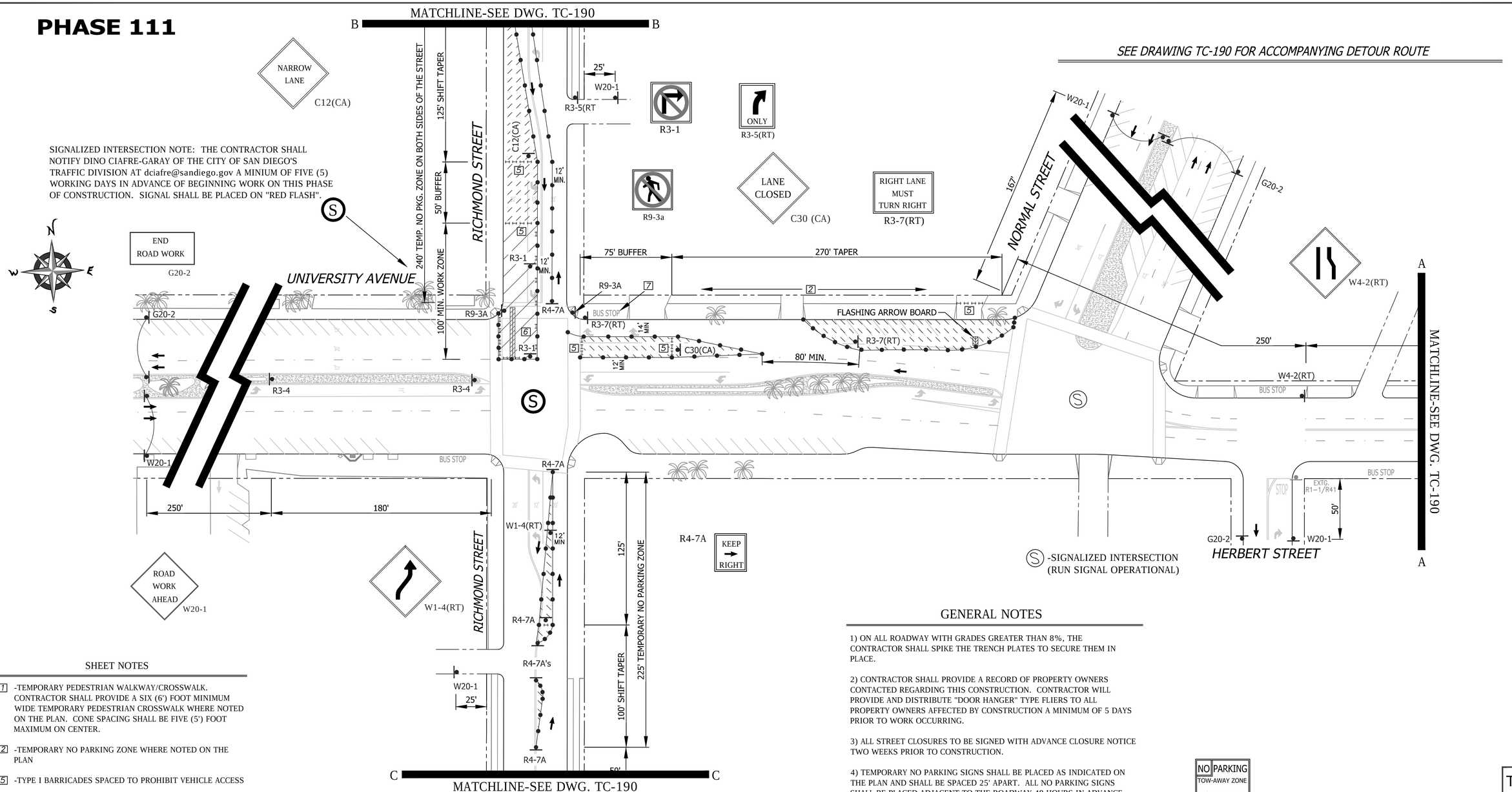
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T188-D

PHASE 111



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

TC-189

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 111

CITY OF SAN DIEGO, CALIFORNIA
SHEET 189 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA, PROJECT MANAGER
FRANCISCO BORDON, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T189-D

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

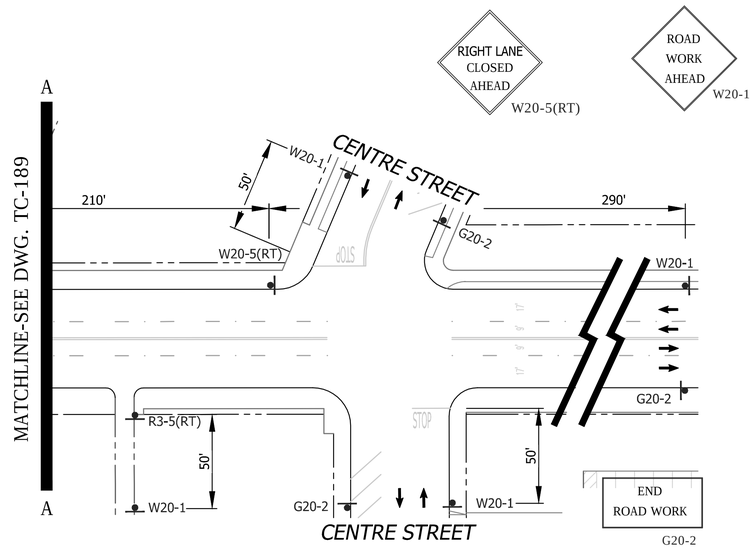
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

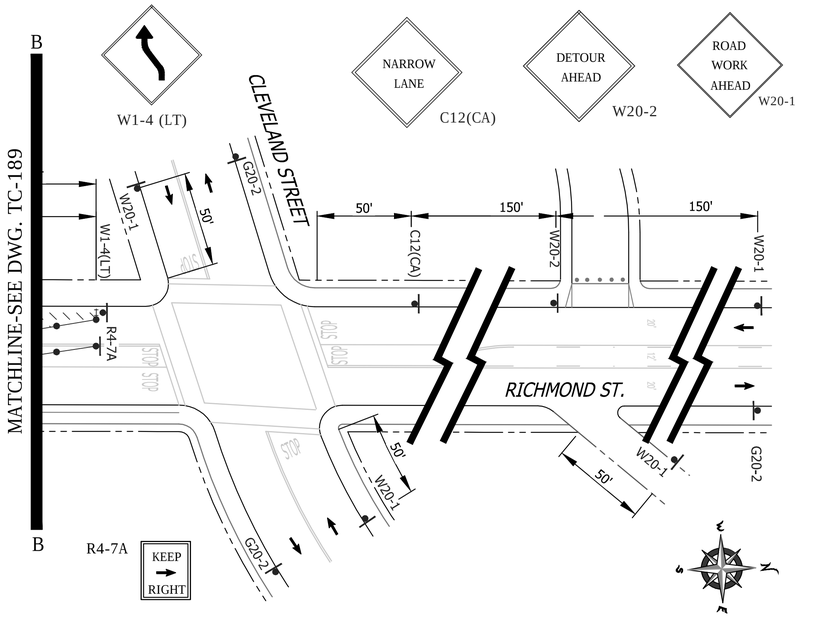
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/19/2014 | BY: DaB

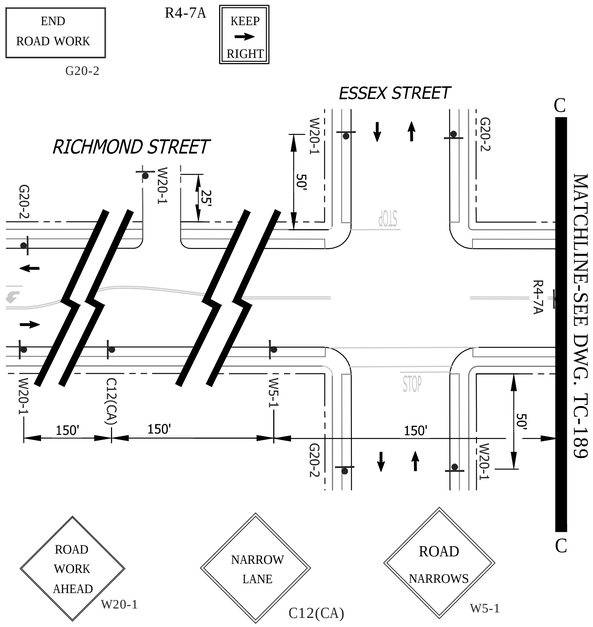
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

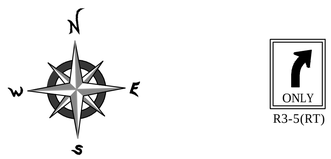
PHASE 111 (CONTINUED)





FOR MATCHLINES "B" & "C"





R3-5(RT)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

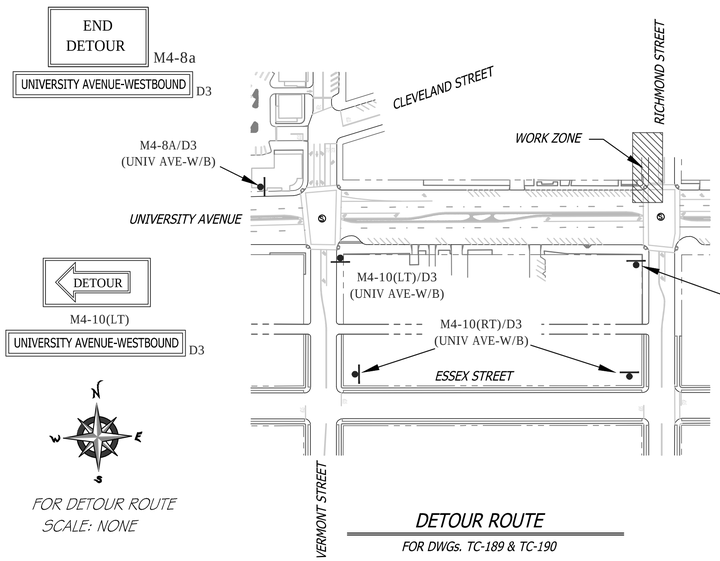
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	SEE DWG.		150 FT.	25 FT
ESSEX/CLEVELAND STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9th	35	SEE DWG.		250 FT.	25 FT



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-189 & TC-190

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

SHEET NOTES

1. -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
DESIGN ENGINEER R.C.E. No. 22338 DATE
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-190

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT RICHMOND STREET
PHASE 111

CITY OF SAN DIEGO, CALIFORNIA
SHEET 190 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

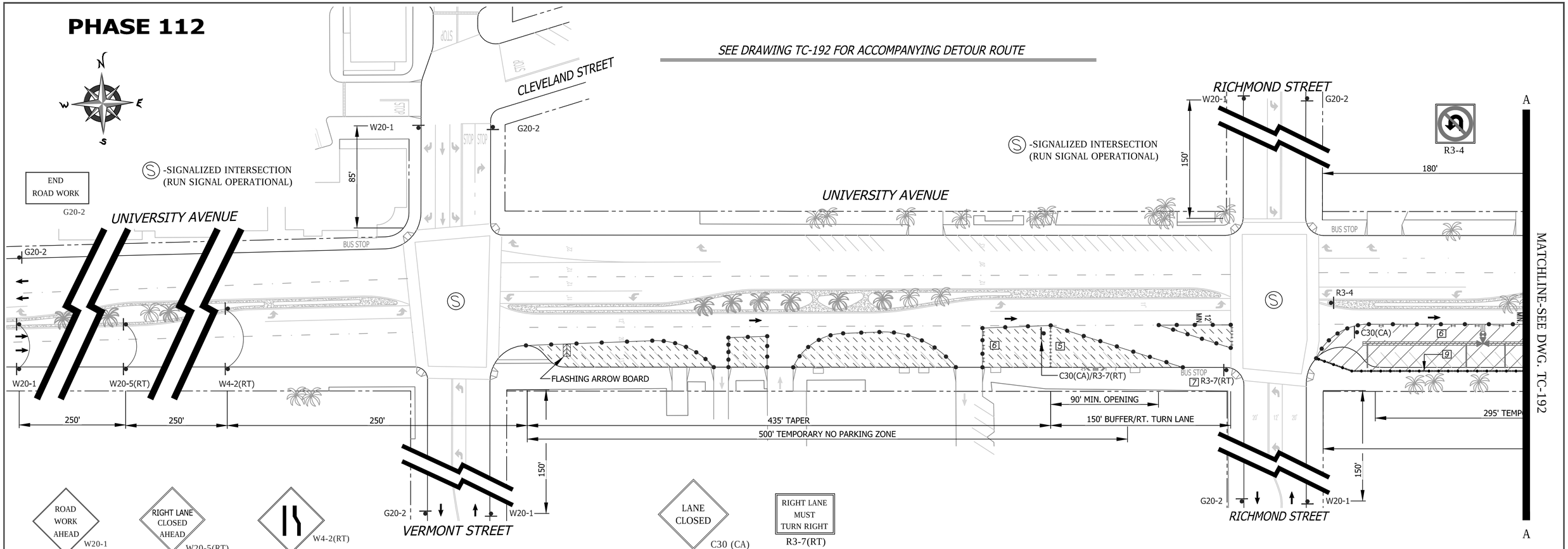
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T190-D

PHASE 112



SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

9 -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
RICHMOND STREET	25	N/A	N/A	150 FT.	25 FT
VERMONT STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601D-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-191

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
RICHMOND STREET TO NORMAL STREET
PHASE 112

CITY OF SAN DIEGO, CALIFORNIA
SHEET 191 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

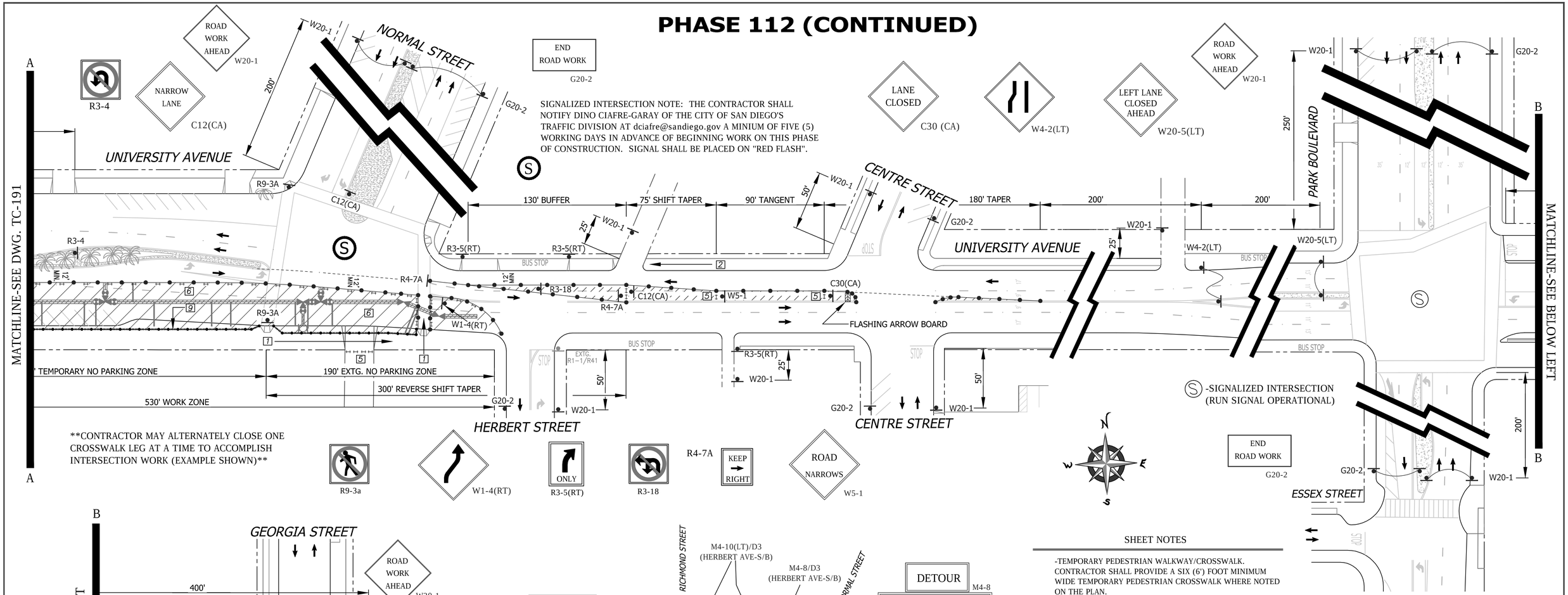
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

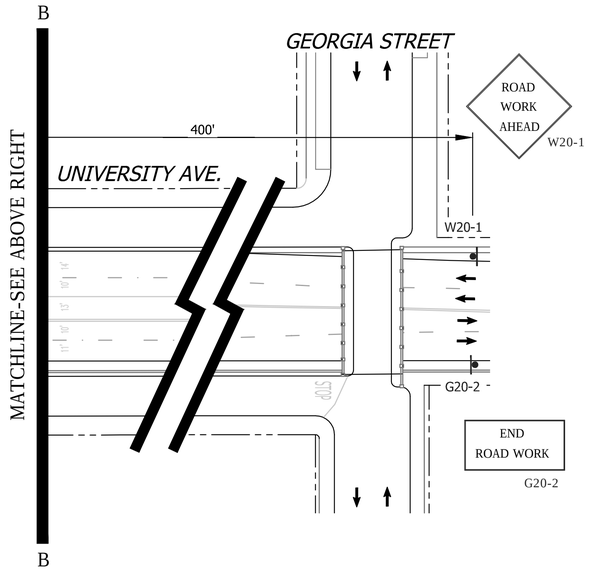
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

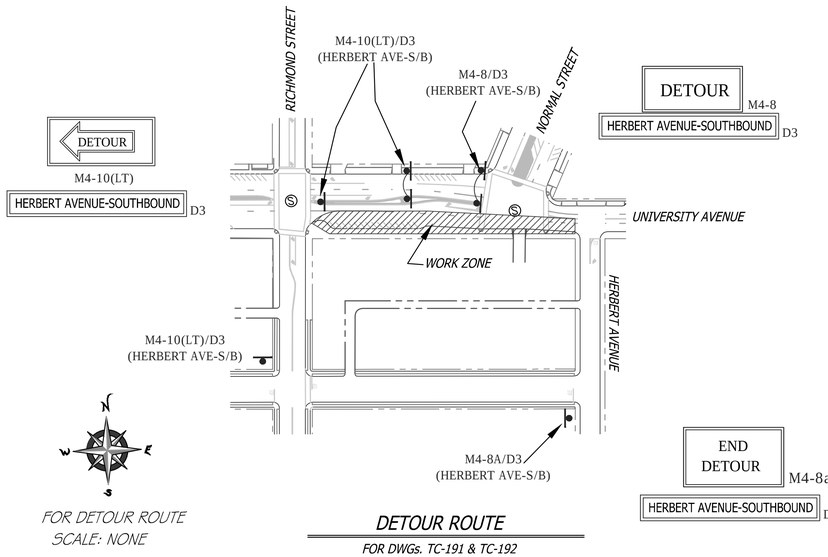
36656-T191-D

PHASE 112 (CONTINUED)



CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION WORK (EXAMPLE SHOWN)





FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-191 & TC-192

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
PARK BOULEVARD	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-192

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
RICHMOND STREET TO NORMAL STREET
PHASE 112

CITY OF SAN DIEGO, CALIFORNIA
SHEET 192 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

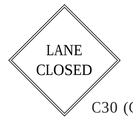
36656-T192-D

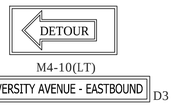
PHASE 113

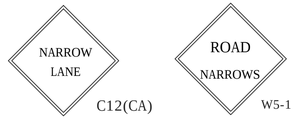
SEE DRAWING TC-194 FOR ACCOMPANYING DETOUR ROUTE

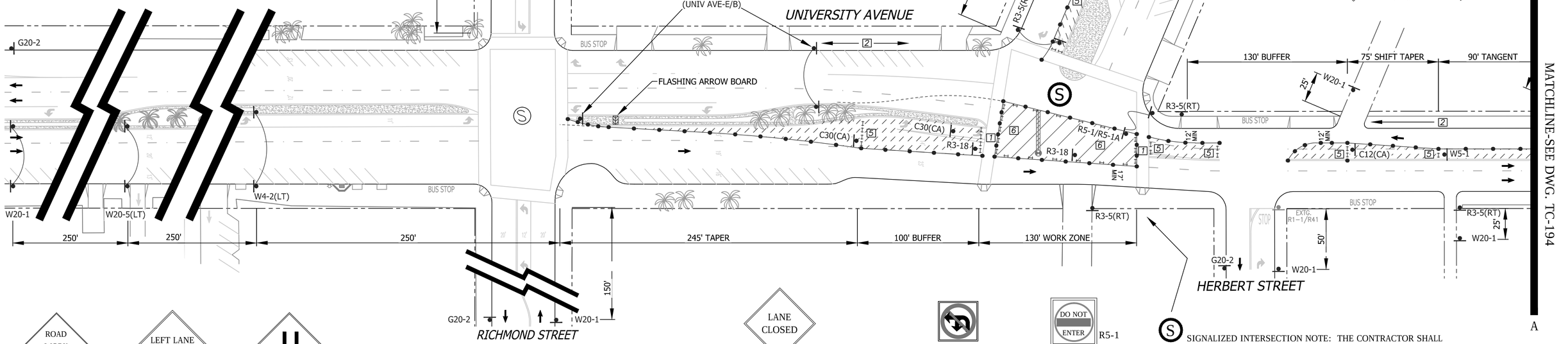
END ROAD WORK
G20-2

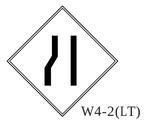
Ⓢ -SIGNALIZED INTERSECTION (RUN SIGNAL OPERATIONAL)

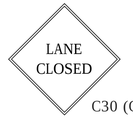


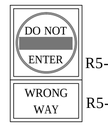












Ⓢ SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
RICHMOND STREET	25	N/A	N/A	150 FT.	25 FT
NORMAL STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

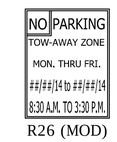
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



R26 (MOD)

TC-193

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NORMAL STREET
PHASE 113

CITY OF SAN DIEGO, CALIFORNIA
SHEET 193 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T193-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

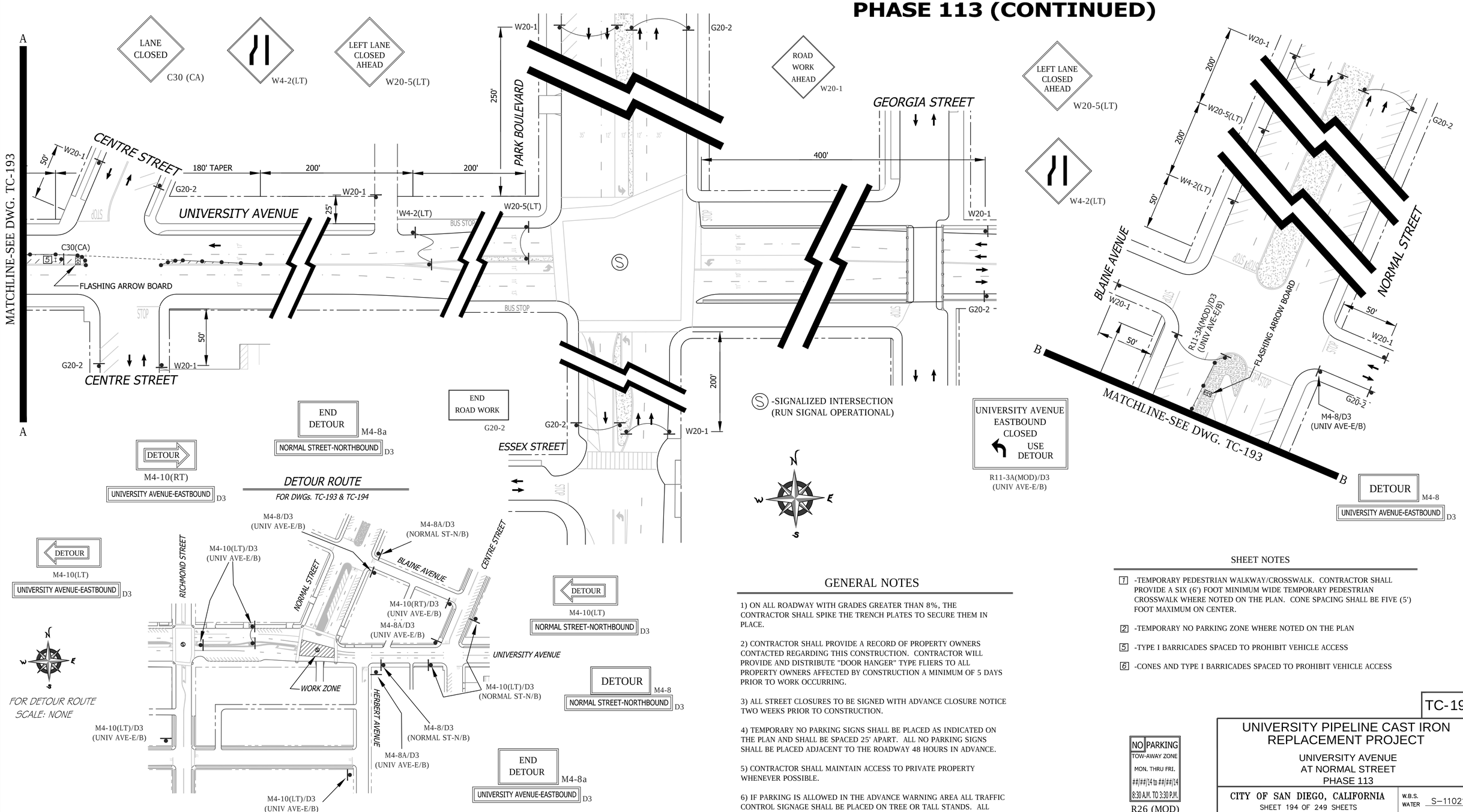
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE:06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 113 (CONTINUED)



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT
NORMAL STREET	30	SEE DWG.		200 FT.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-194

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NORMAL STREET
PHASE 113

CITY OF SAN DIEGO, CALIFORNIA
SHEET 194 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T194-D

PHASE 114

N W E S

Ⓢ -SIGNALIZED INTERSECTION
(RUN SIGNAL OPERATIONAL)

R9-3a

MATCHLINE-SEE BELOW LEFT

A — A

100' BUFFER

NORMAL STREET

150' WORK ZONE

RICHMOND STREET

END ROAD WORK
G20-2

R9-3A

16' MIN

12' MIN

ONLY
R3-5(RT)

LANE CLOSED
C30 (CA)

RIGHT LANE MUST TURN RIGHT
R3-7(RT)

W4-2(RT)

RIGHT LANE CLOSED AHEAD
W20-5(RT)

ROAD WORK AHEAD
W20-1

BUS STOP

G20-2

R3-4

150' BUFFER/RT. TURN LANE

180' TAPER

R3-7(RT)

R3-5(RT)

R3-7(RT)/C30(CA)

C30(CA)

25'

W20-1

50'

CENTRE STREET

UNIVERSITY AVENUE

80' MIN.

FLASHING ARROW BOARD

200'

175'

200'

PARK BLVD.

W20-5(RT)

W4-2(RT)

250'

70'

W20-1

R3-5(RT)

EXTG. R1-1/R41

STOP

HERBERT STREET

W4-2(LT)

LEFT LANE CLOSED AHEAD
W20-5(LT)

CENTRE STREET

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

NARROW LANE
C12(CA)

W1-4(RT)

ROAD NARROWS
W5-1

ROAD NARROWS
W5-1

FOR MATCHLINE "A"

MATCHLINE-SEE ABOVE RIGHT

90' SHIFT TAPER

90' TANGENT

180' TAPER

200'

200'

200'

50'

W20-1

G20-2

NORMAL STREET

W4-2(LT)

W20-5(LT)

W20-1

W1-4(RT)

30'

C12(CA)

W5-1

C30(CA)

FLASHING ARROW BOARD

BLAINE AVENUE

LANE CLOSED
C30 (CA)

END ROAD WORK
G20-2

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

TC-195

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT NORMAL STREET
PHASE 114

CITY OF SAN DIEGO, CALIFORNIA
SHEET 195 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER
210-1719 — CCS27 COORDINATE
185044-6280407 — CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T195-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

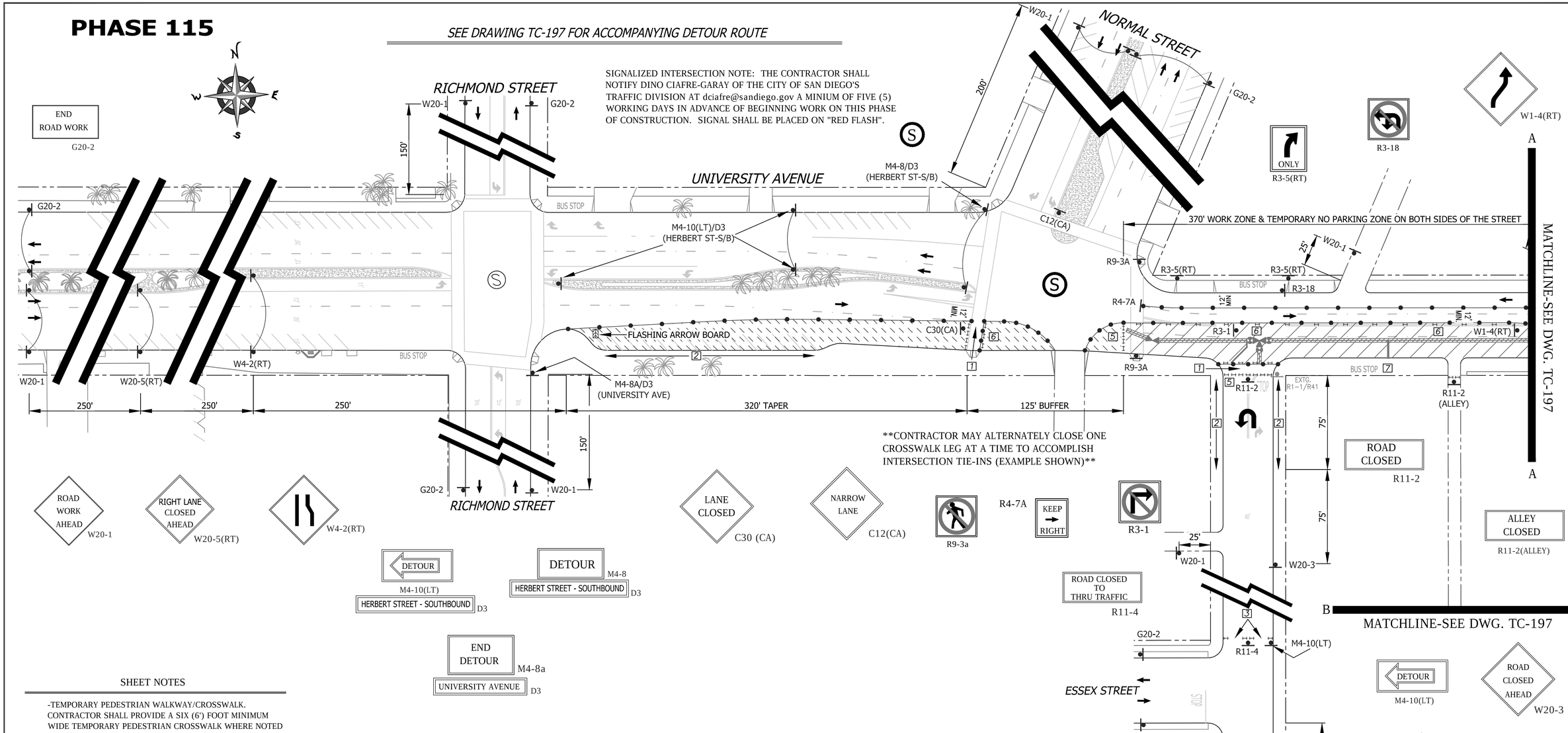
DWG NAME: 13060R3-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 115

SEE DRAWING TC-197 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



ROAD WORK AHEAD W20-1 | RIGHT LANE CLOSED AHEAD W20-5(RT) | W4-2(RT) | LANE CLOSED C30 (CA) | NARROW LANE C12(CA) | R9-3a | R4-7A KEEP → RIGHT | R3-1

DETOUR M4-10(LT) — HERBERT STREET - SOUTHBOUND D3

DETOUR M4-8 — HERBERT STREET - SOUTHBOUND D3

END DETOUR M4-8a — UNIVERSITY AVENUE D3

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M. R26 (MOD)

SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060RS-1A | DATE: 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-196

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
NORMAL STREET TO CENTRE STREET
PHASE 115

CITY OF SAN DIEGO, CALIFORNIA
SHEET 196 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

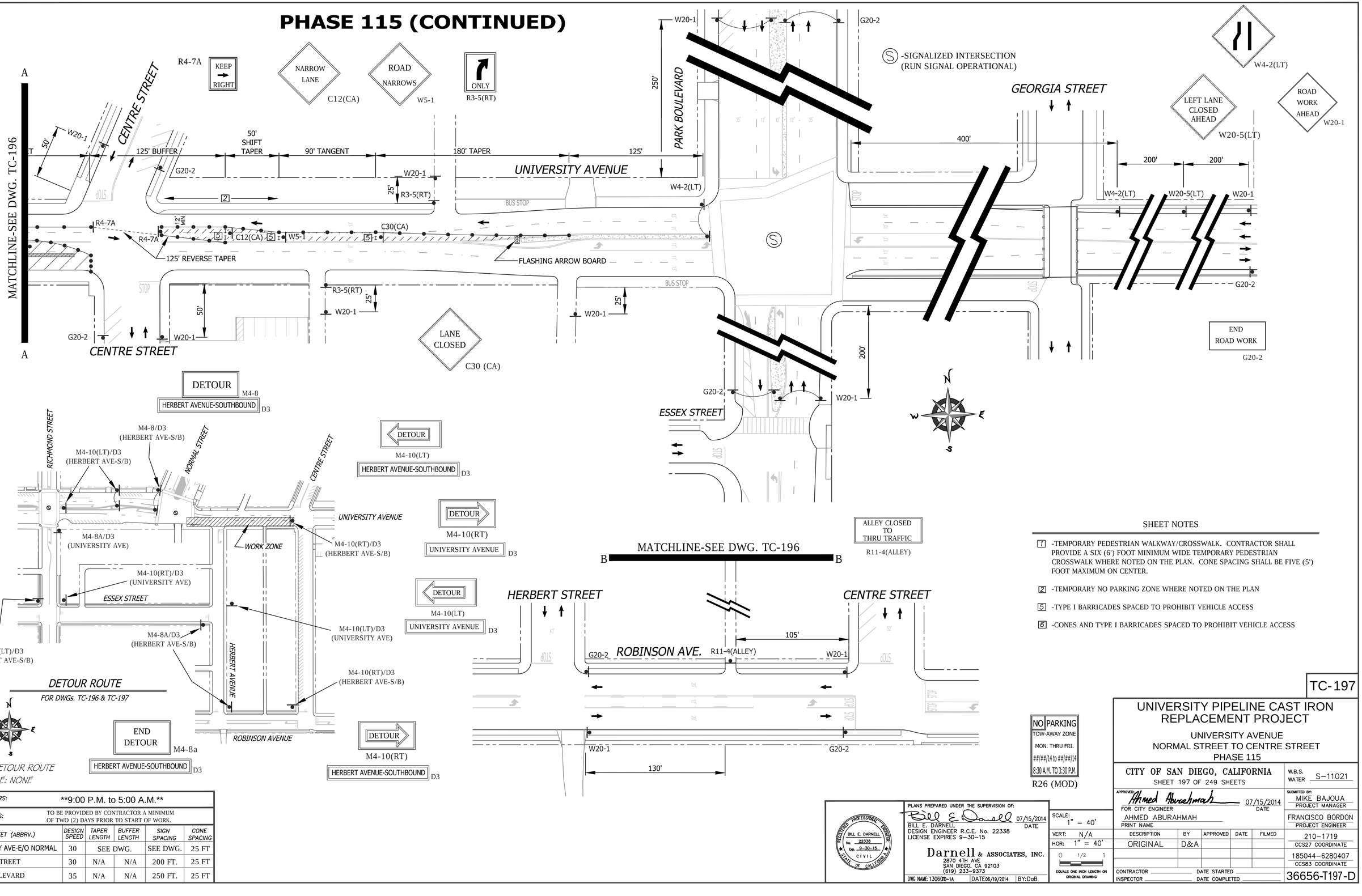
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T196-D

PHASE 115 (CONTINUED)



WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-197

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
NORMAL STREET TO CENTRE STREET
PHASE 115

CITY OF SAN DIEGO, CALIFORNIA
SHEET 197 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

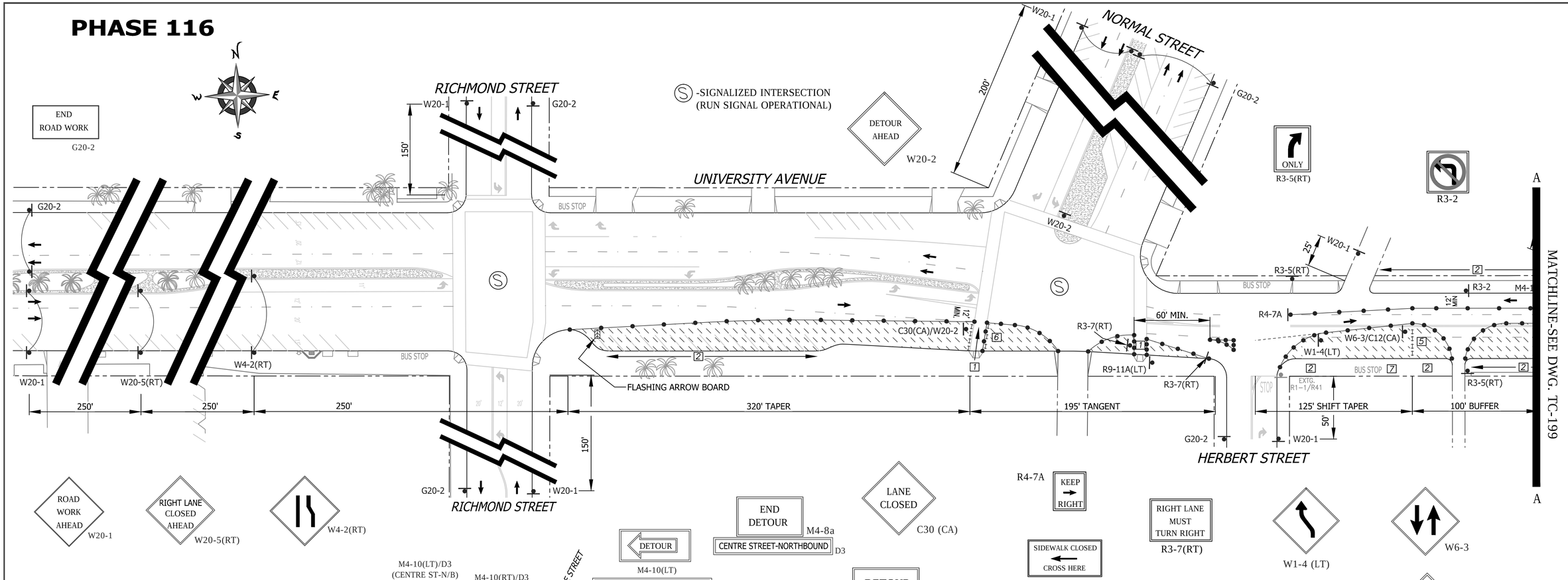
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

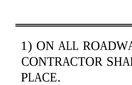
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

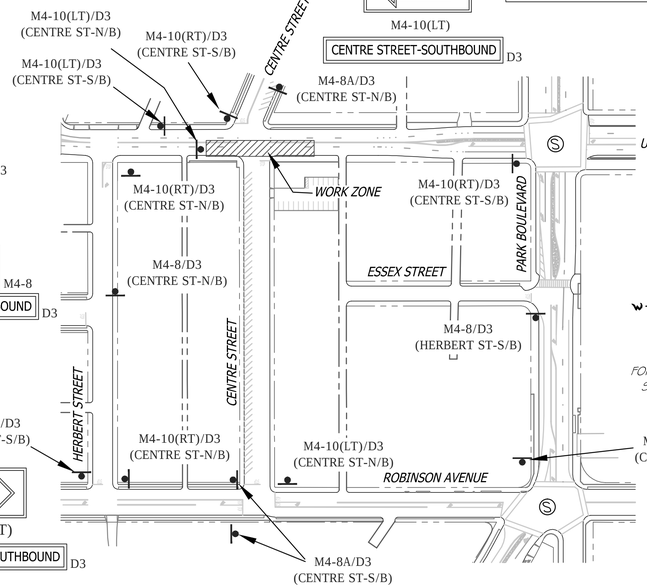
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

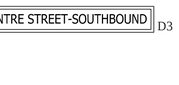
36656-T197-D

PHASE 116



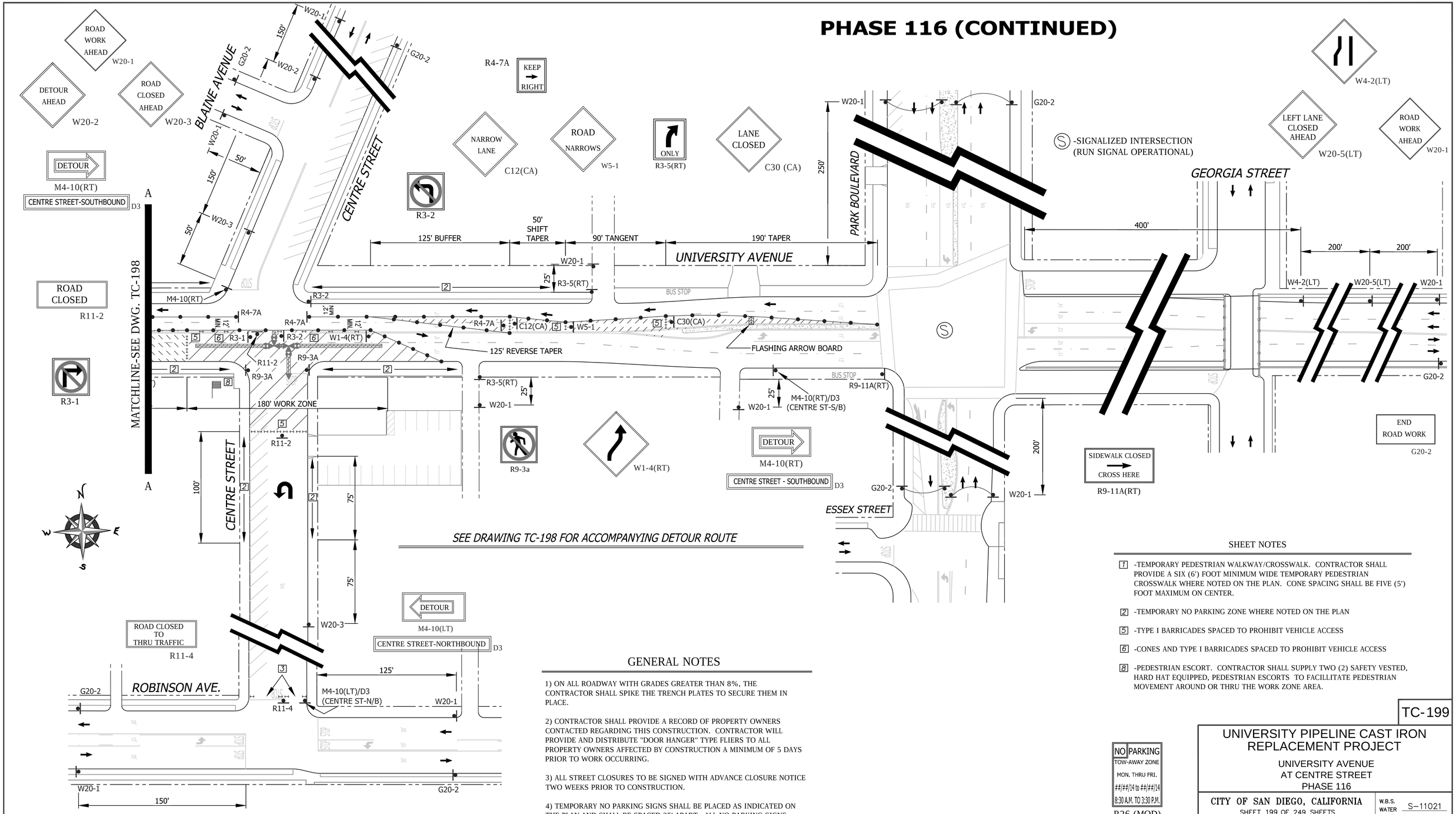






END DETOUR
M4-8a

PHASE 116 (CONTINUED)



SEE DRAWING TC-198 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[7] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[8] -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
CENTRE STREET	25	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600D-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-199

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT CENTRE STREET
PHASE 116

CITY OF SAN DIEGO, CALIFORNIA
SHEET 199 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

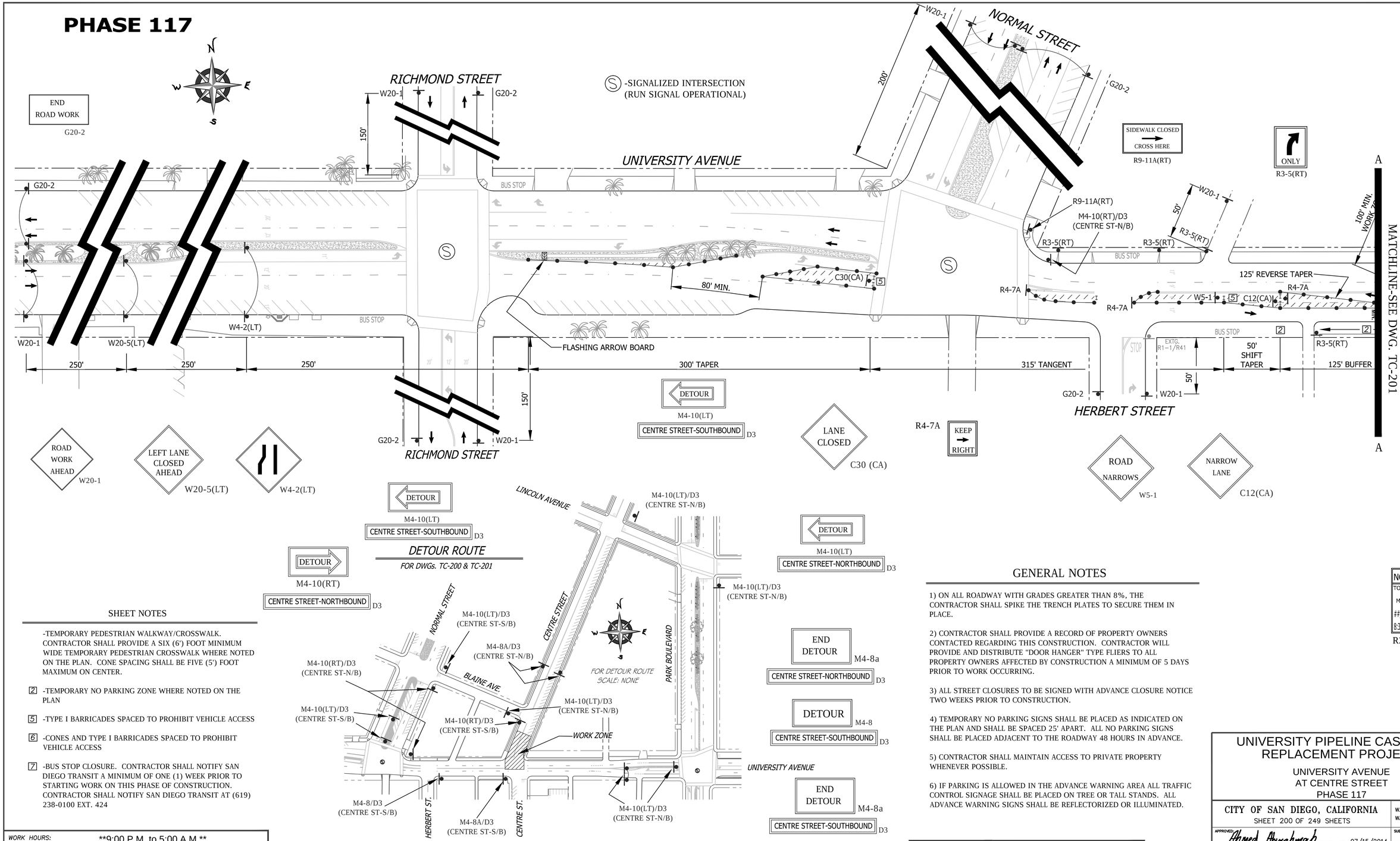
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T199-D

PHASE 117



SHEET NOTES

-TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-200

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060TC-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT CENTRE STREET
PHASE 117

CITY OF SAN DIEGO, CALIFORNIA
SHEET 200 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

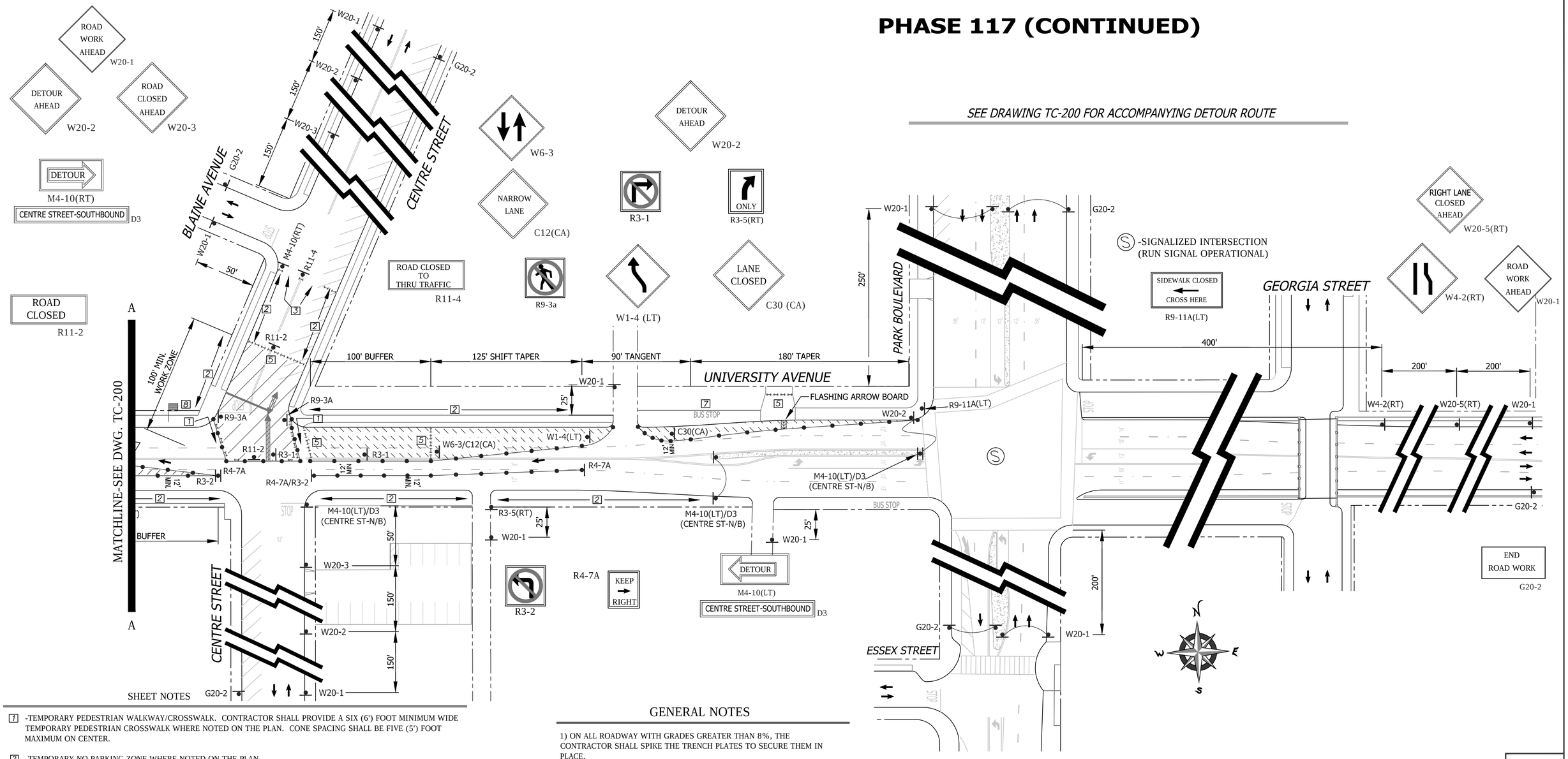
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T200-D

PHASE 117 (CONTINUED)

SEE DRAWING TC-200 FOR ACCOMPANYING DETOUR ROUTE



SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY ONE (1) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
CENTRE STREET	25	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130600D-1A | DATE06/19/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-201

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT CENTRE STREET
PHASE 117

CITY OF SAN DIEGO, CALIFORNIA
SHEET 201 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

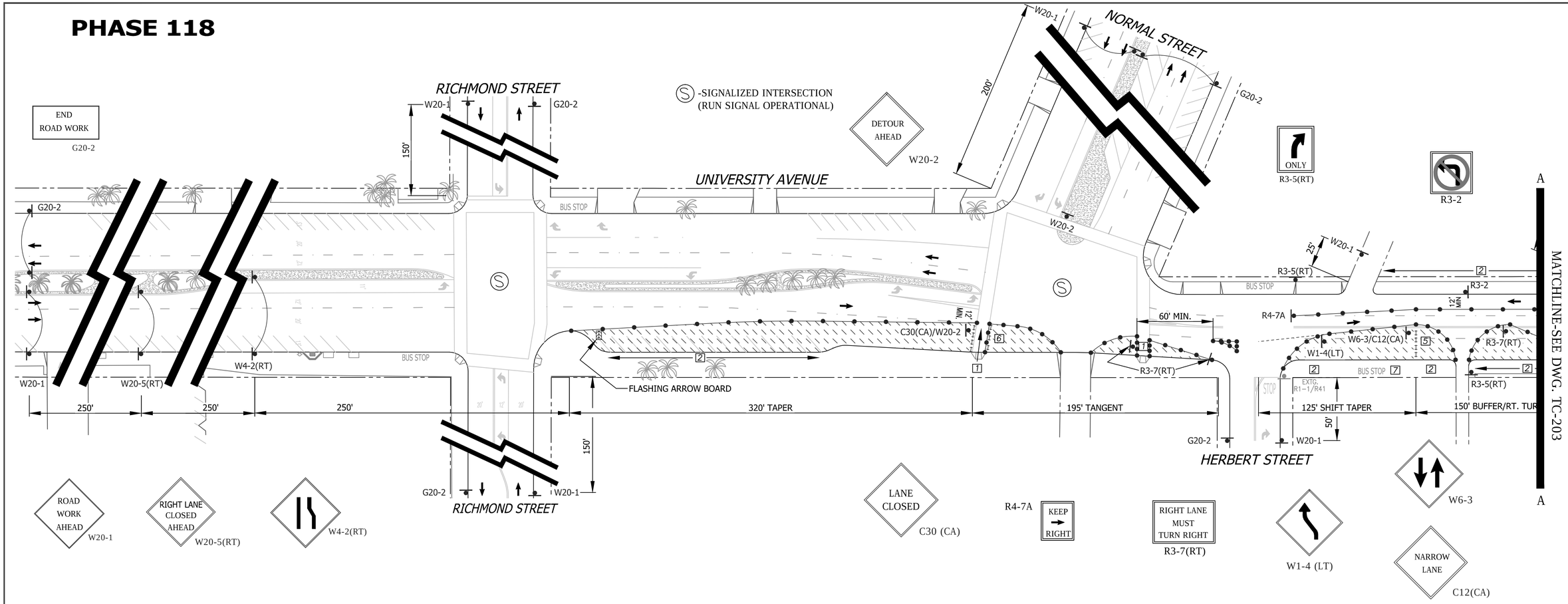
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T201-D

PHASE 118



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

[1] -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-202

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 118

CITY OF SAN DIEGO, CALIFORNIA
SHEET 202 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

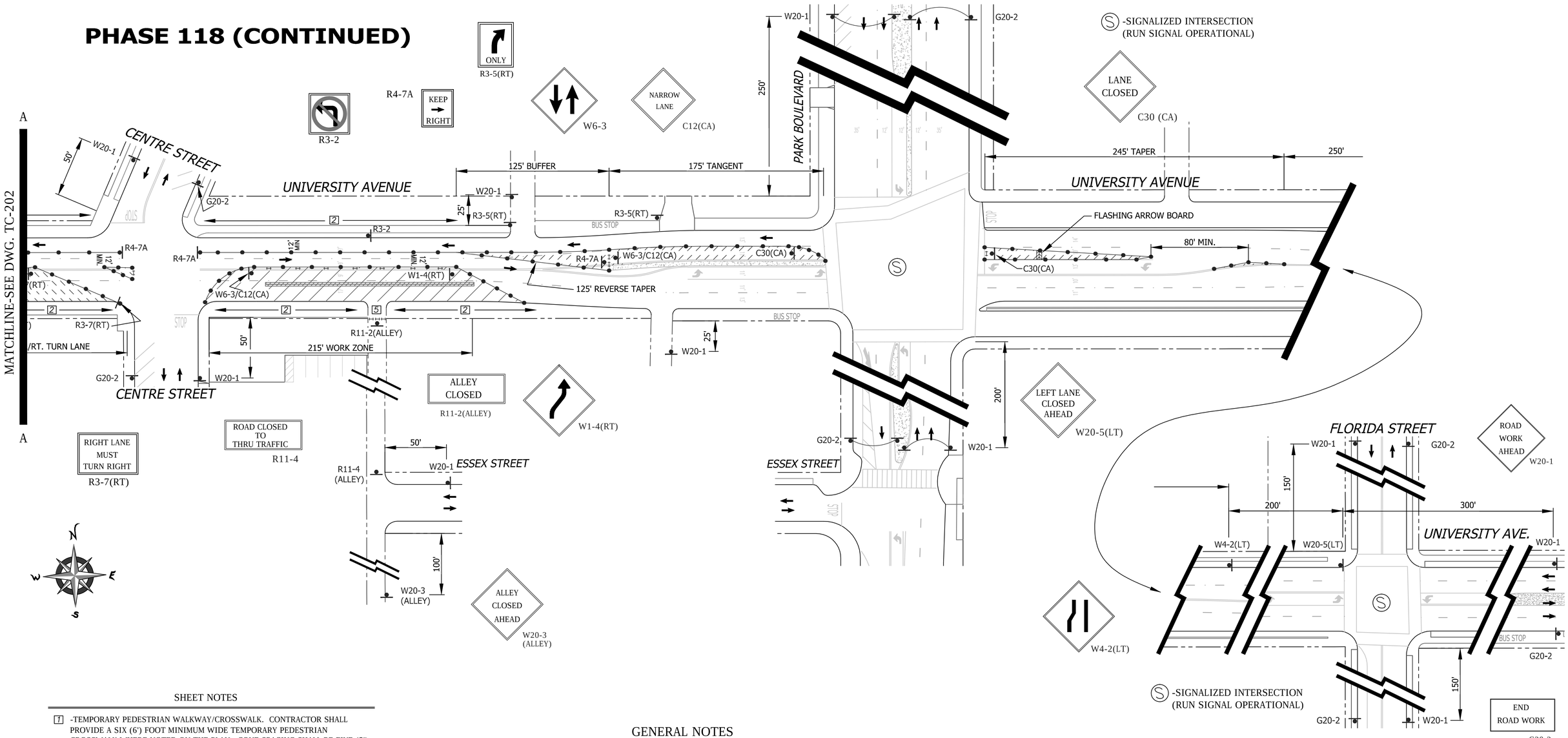
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T202-D

PHASE 118 (CONTINUED)



SHEET NOTES

1 -TEMPORARY PEDESTRIAN WALKWAY/CROSSWALK. CONTRACTOR SHALL PROVIDE A SIX (6') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN CROSSWALK WHERE NOTED ON THE PLAN. CONE SPACING SHALL BE FIVE (5') FOOT MAXIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

8 -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY TWO (2) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORTS TO FACILLITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE WORK ZONE AREA.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	250 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/19/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-203

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
CENTRE STREET TO PARK BOULEVARD
PHASE 118

CITY OF SAN DIEGO, CALIFORNIA
SHEET 203 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

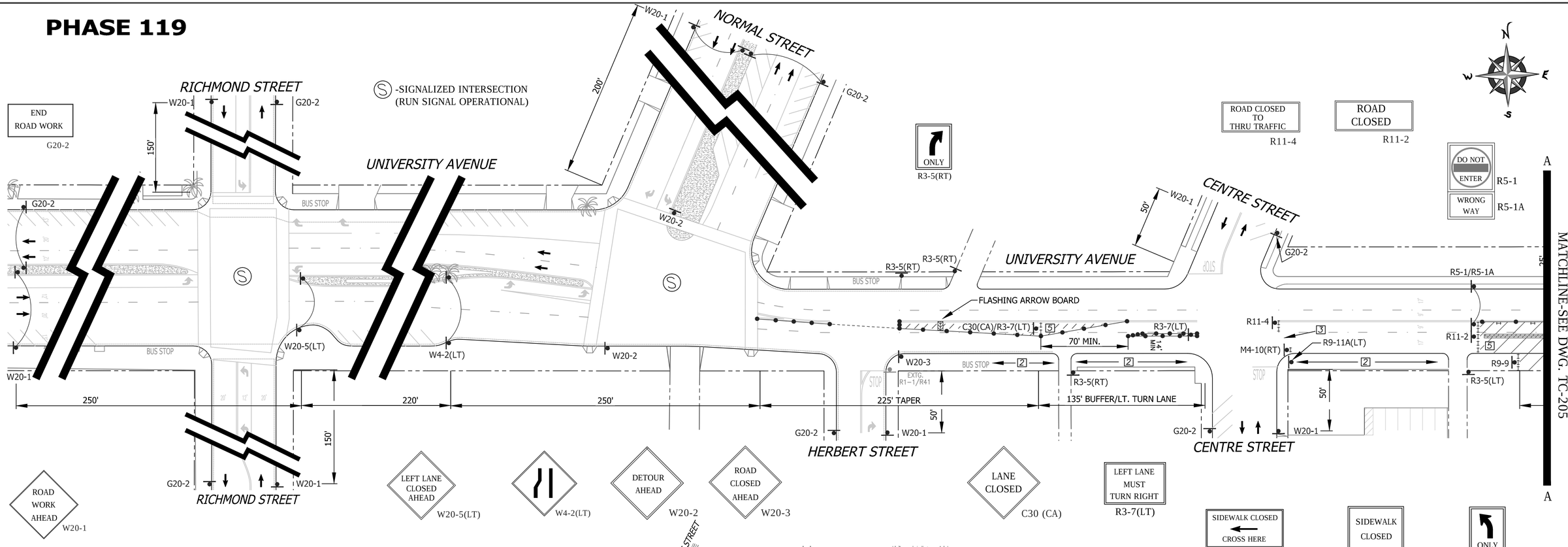
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T203-D

PHASE 119



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

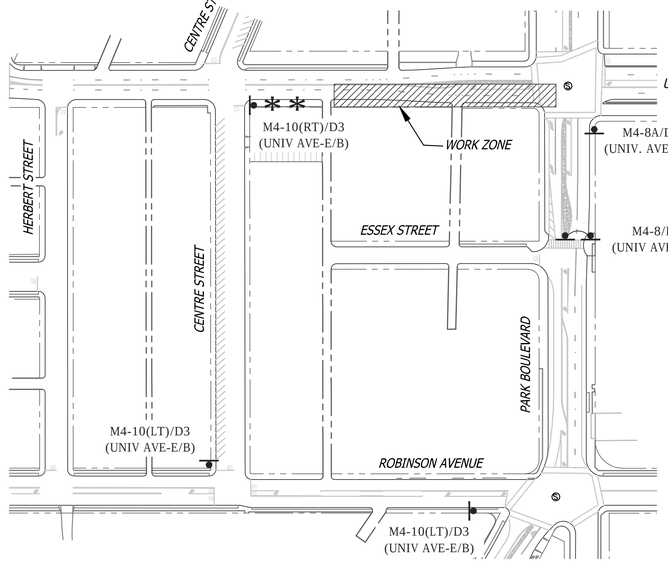
WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/RICHMOND ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O 9TH	35	SEE DWG.		250 FT.	25 FT

DETOUR
M4-10(RT)
UNIVERSITY AVENUE-EASTBOUND D3

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

FOR DETOUR ROUTE
SCALE: NONE

DETOUR
M4-10(LT)
UNIVERSITY AVENUE-EASTBOUND D3



DETOUR ROUTE

FOR DWG. TC-204 & TC-205

END DETOUR M4-8a
UNIVERSITY AVENUE-EASTBOUND D3

DETOUR M4-8
UNIVERSITY AVENUE-EASTBOUND D3

60" MIN.
UNIVERSITY AVE EASTBOUND CLOSED
SUN-THUR
##:## P.M. TO ##:## A.M.
##/##/2014 TO ##/##/2014

** -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

TC-204

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 119

CITY OF SAN DIEGO, CALIFORNIA
SHEET 204 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T204-D

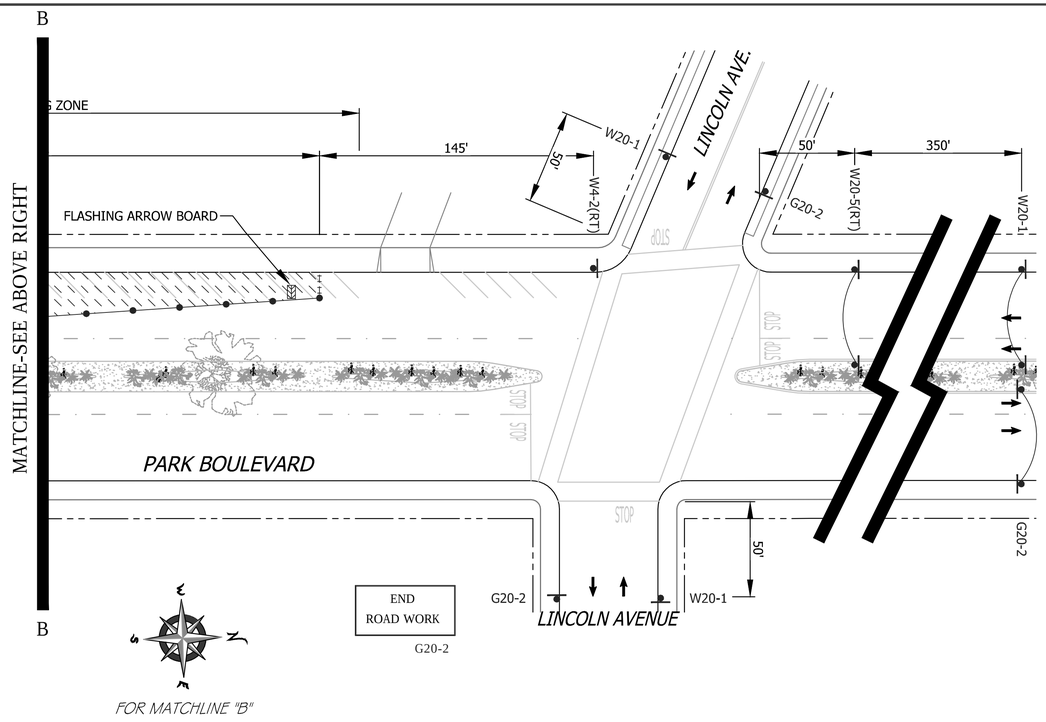
REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130609a-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING



PHASE 119 (CONTINUED)

SEE DRAWING TC-204 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

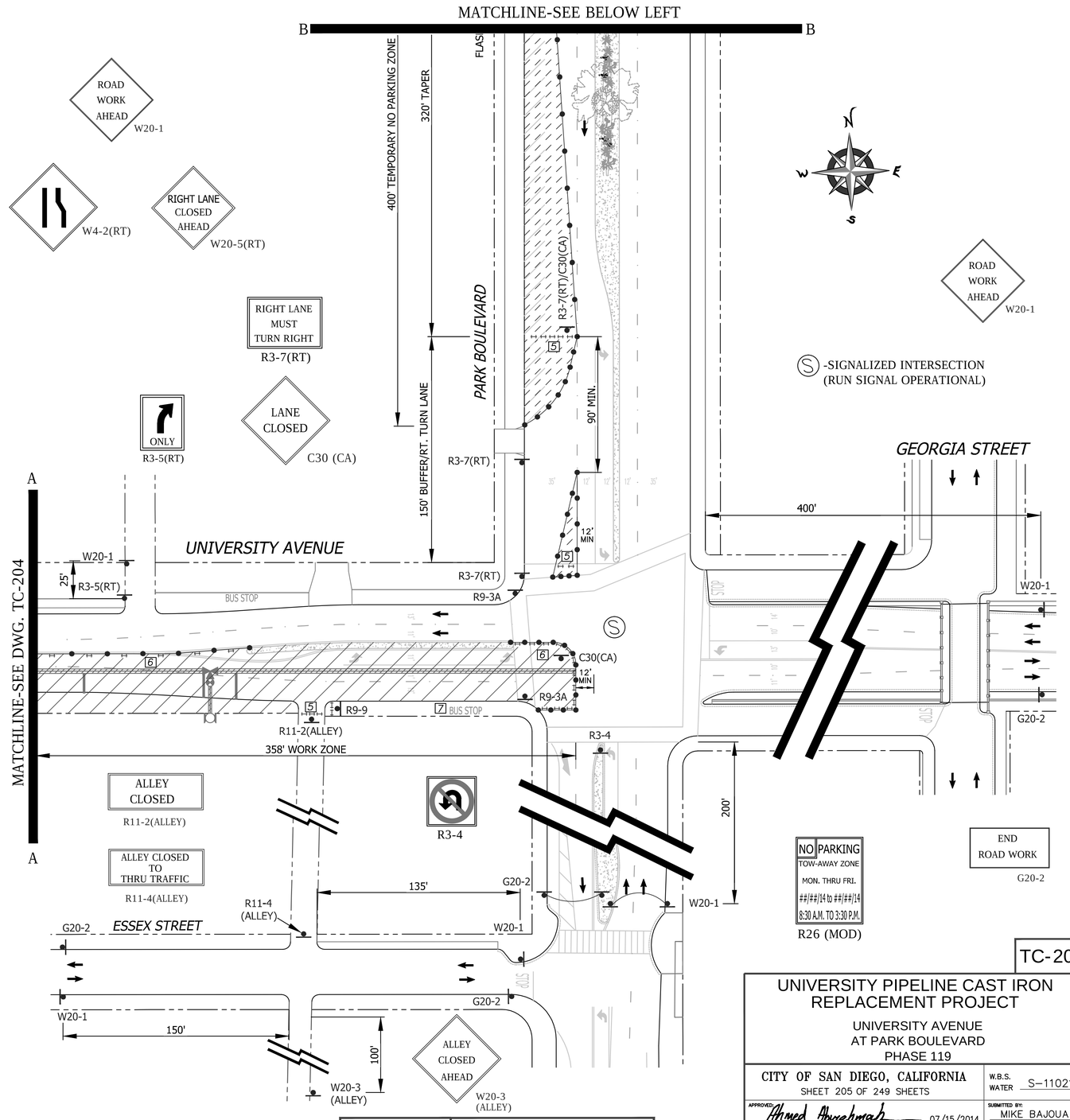
[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	40	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT



TC-205

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 119

CITY OF SAN DIEGO, CALIFORNIA
SHEET 205 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME
DATE

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T205-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

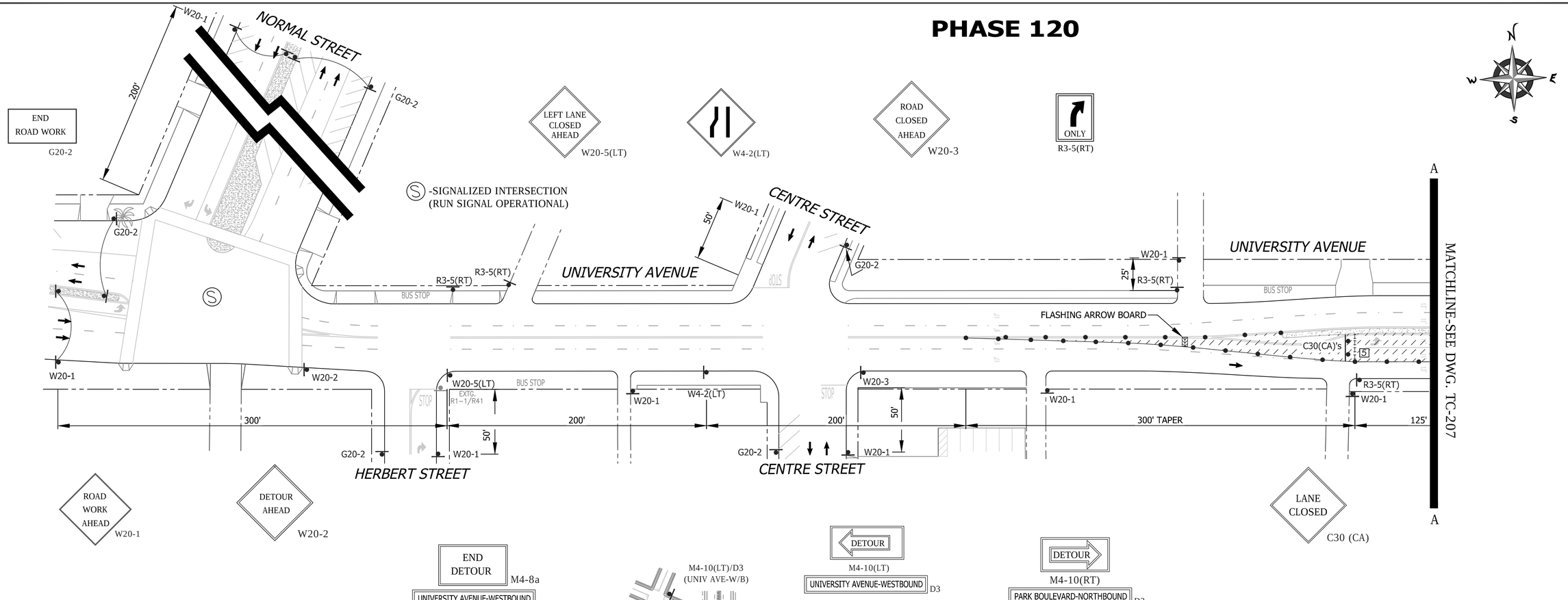
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

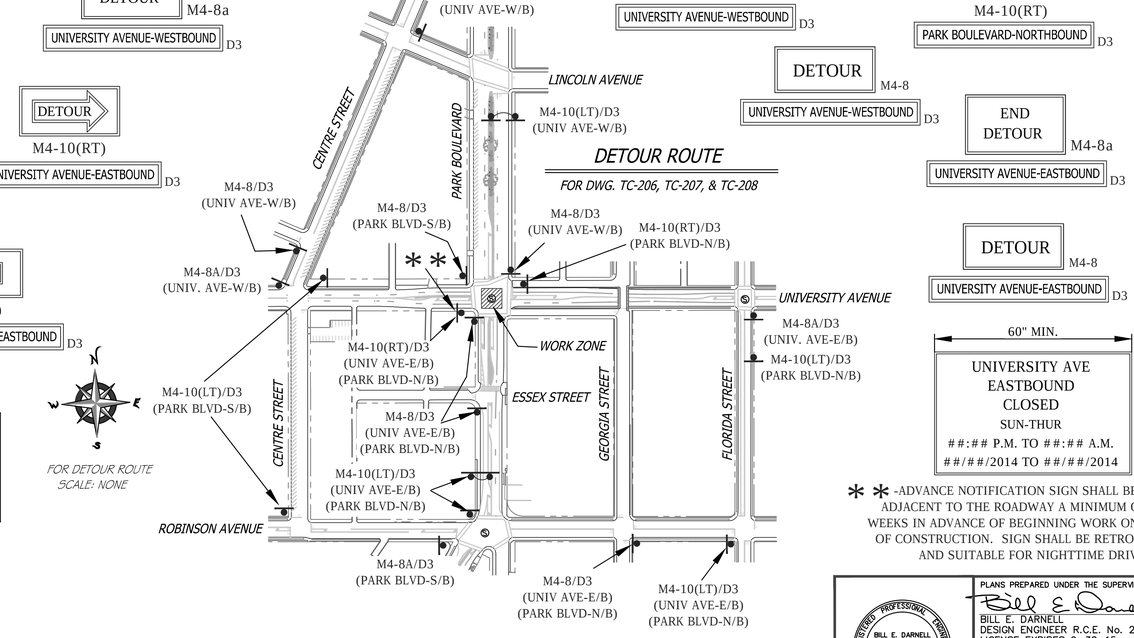
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060TC-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 120





DETOUR ROUTE

FOR DWG. TC-206, TC-207, & TC-208

FOR DETOUR ROUTE
SCALE: NONE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

60" MIN.

UNIVERSITY AVE
EASTBOUND
CLOSED
SUN-THUR
##:## P.M. TO ##:## A.M.
##/##/2014 TO ##/##/2014

* * -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/CENTRE ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601B-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-206

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 120

CITY OF SAN DIEGO, CALIFORNIA
SHEET 206 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

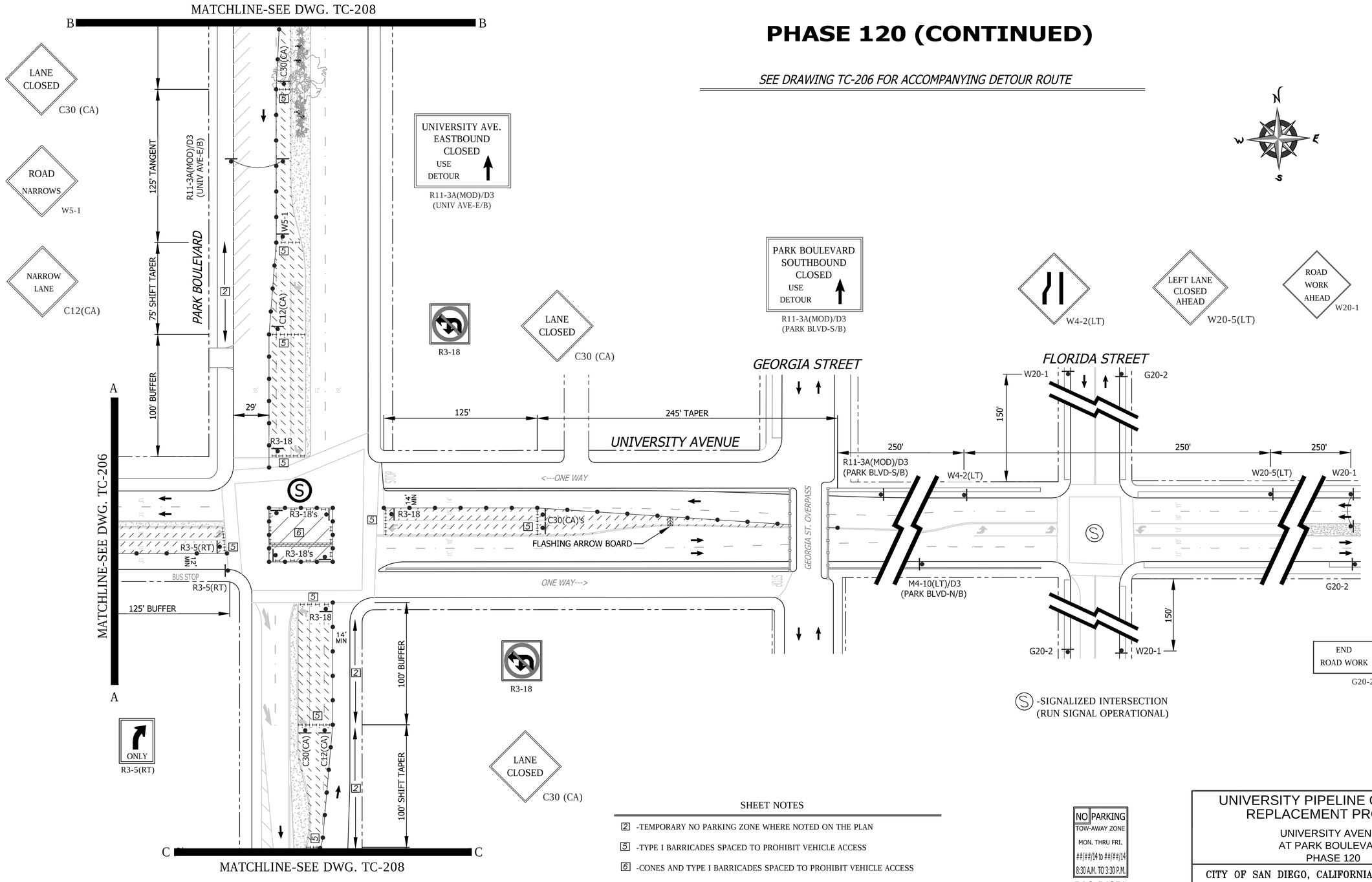
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T206-D

PHASE 120 (CONTINUED)

SEE DRAWING TC-206 FOR ACCOMPANYING DETOUR ROUTE



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-207

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 120

CITY OF SAN DIEGO, CALIFORNIA
SHEET 207 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T207-D

PHASE 120 (CONTINUED)

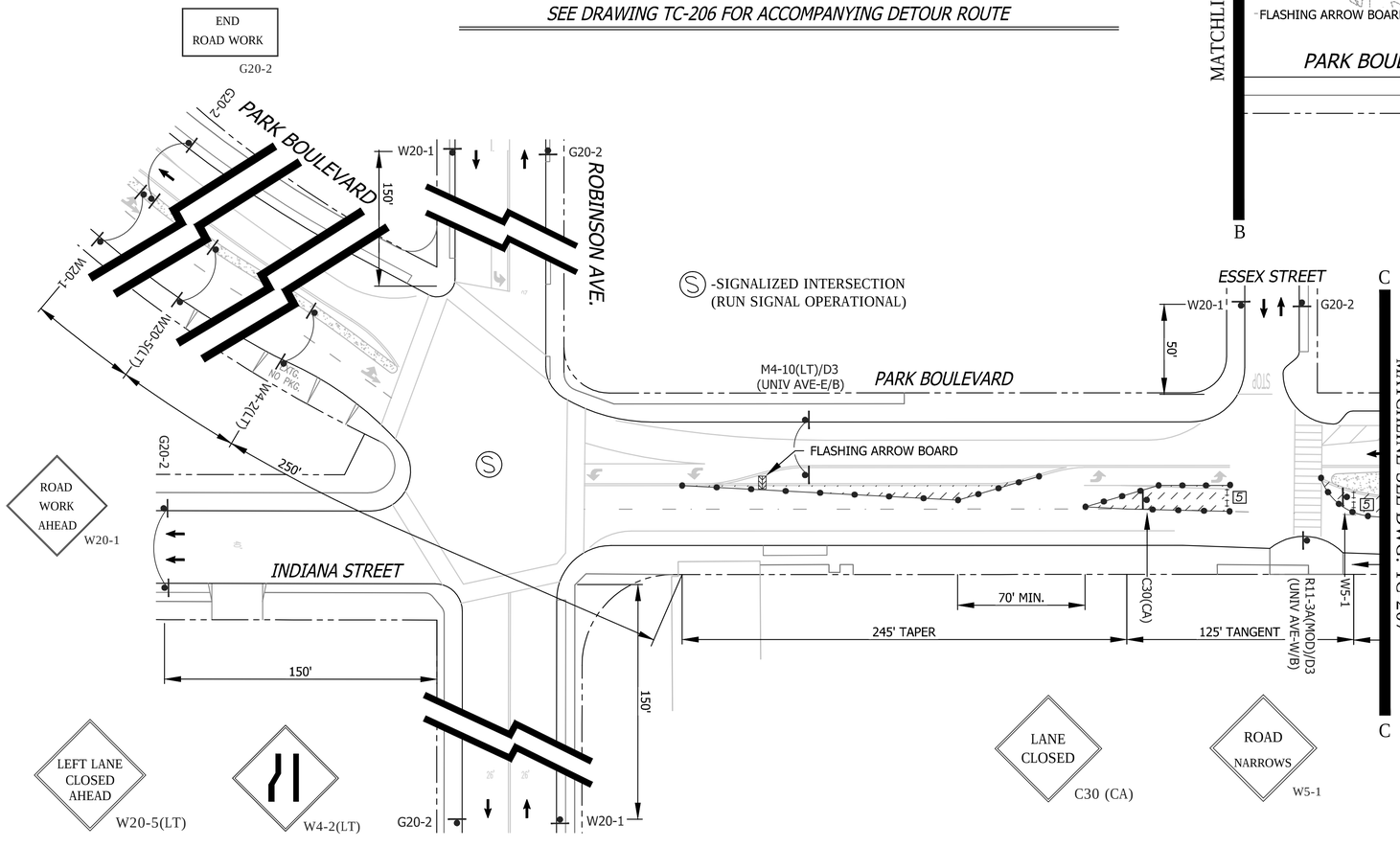
SHEET NOTES

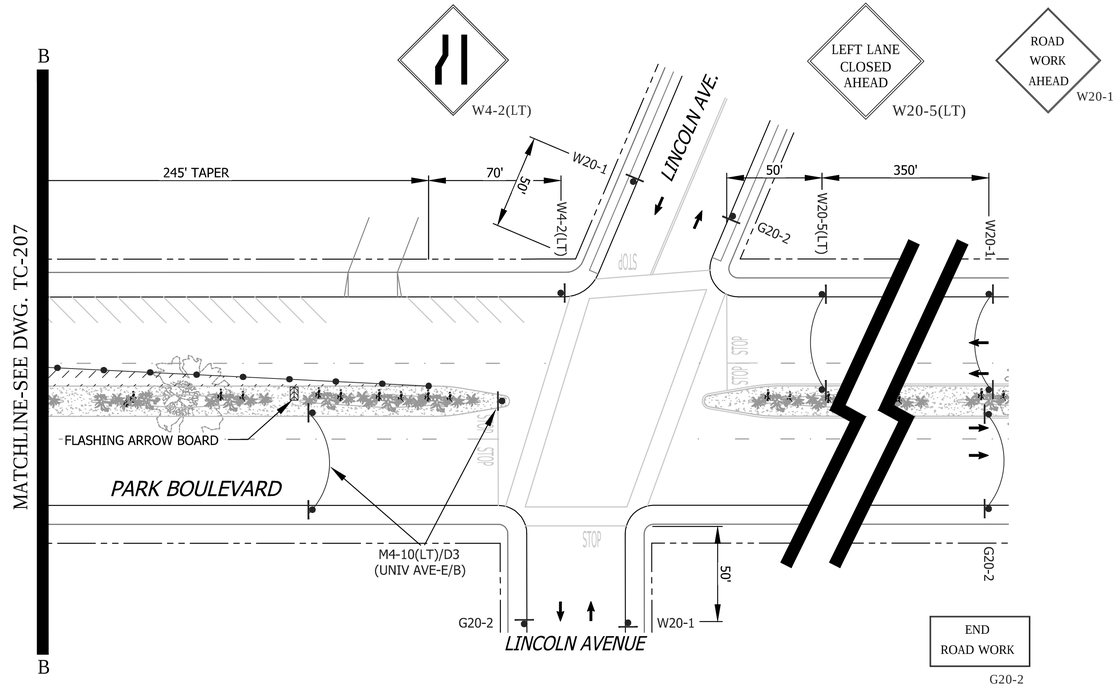
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SEE DRAWING TC-206 FOR ACCOMPANYING DETOUR ROUTE





FOR MATCHLINE "B" & "C"

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	SEE DWG.	SEE DWG.	SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.	SEE DWG.	SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.	SEE DWG.	SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600G-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-208

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 120

CITY OF SAN DIEGO, CALIFORNIA
SHEET 208 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

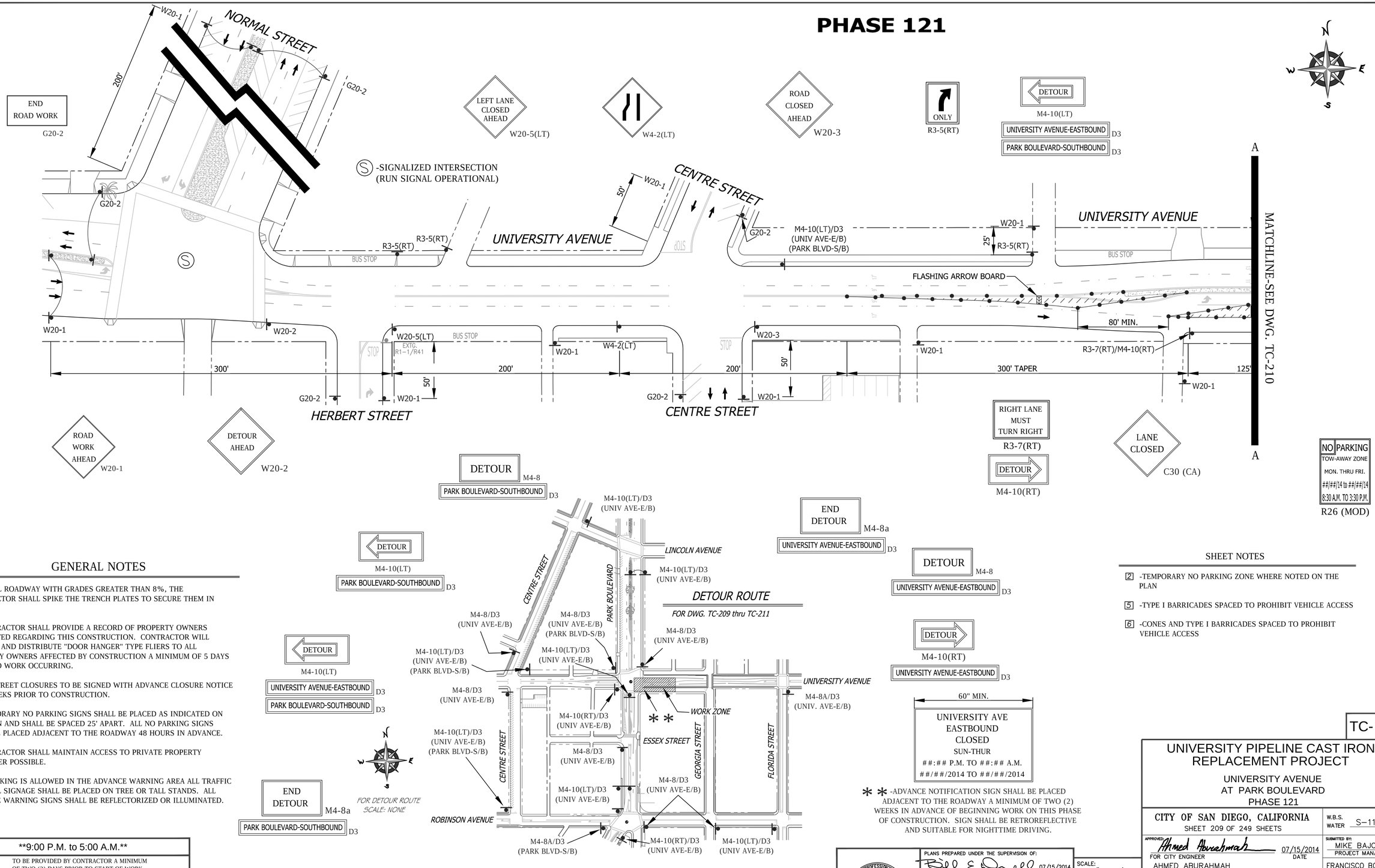
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T208-D

PHASE 121



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/CENTRE ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

** -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

TC-209

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 121

CITY OF SAN DIEGO, CALIFORNIA
SHEET 209 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY: MIKE BAJOUA — PROJECT MANAGER
FRANCISCO BORDON — PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____
36656-T209-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 121 (CONTINUED)

SEE DRAWING TC-209 FOR ACCOMPANYING DETOUR ROUTE

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

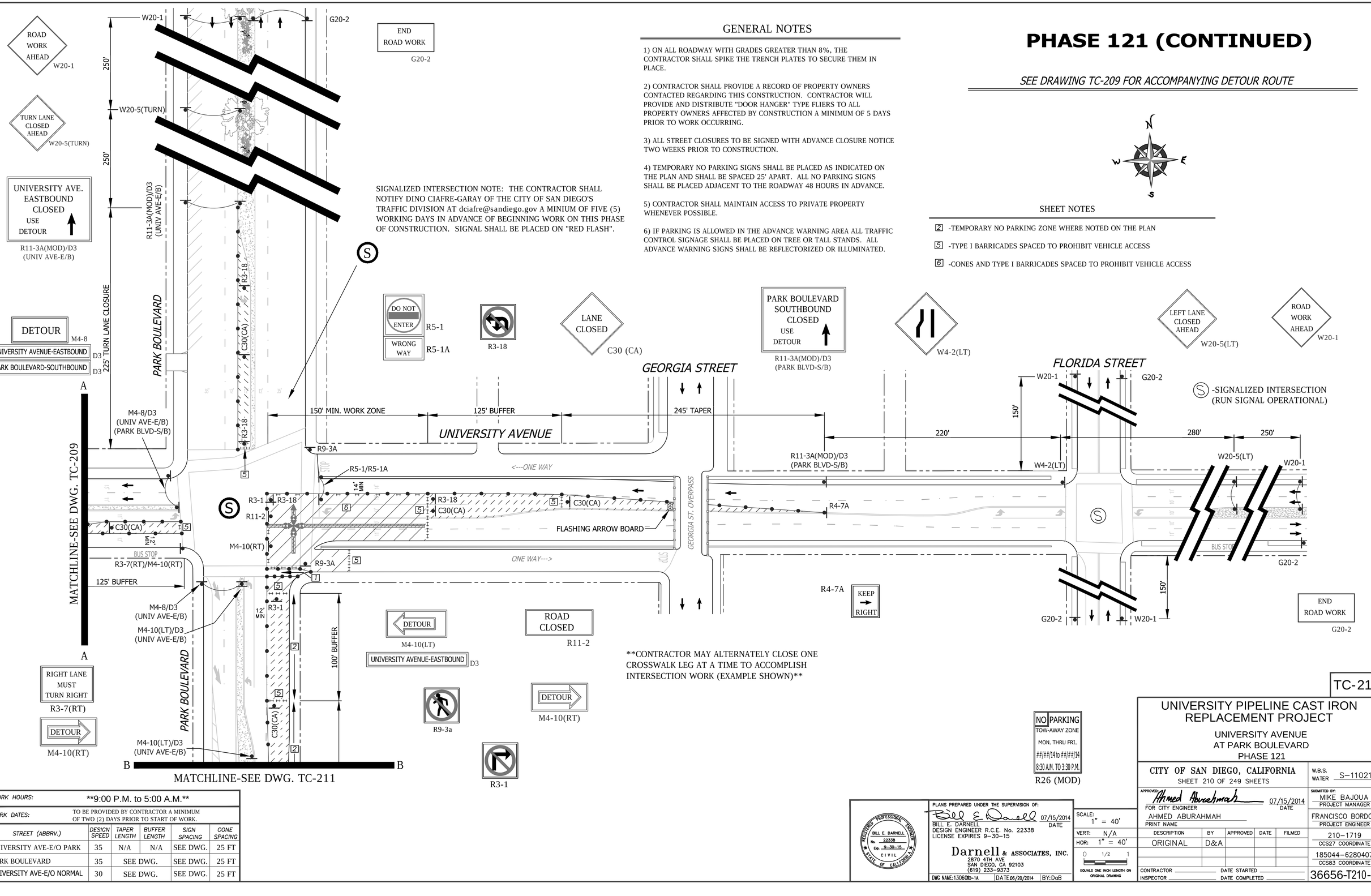
6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS



CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION WORK (EXAMPLE SHOWN)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	N/A	N/A	SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

TC-210

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 121

CITY OF SAN DIEGO, CALIFORNIA
SHEET 210 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T210-D

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

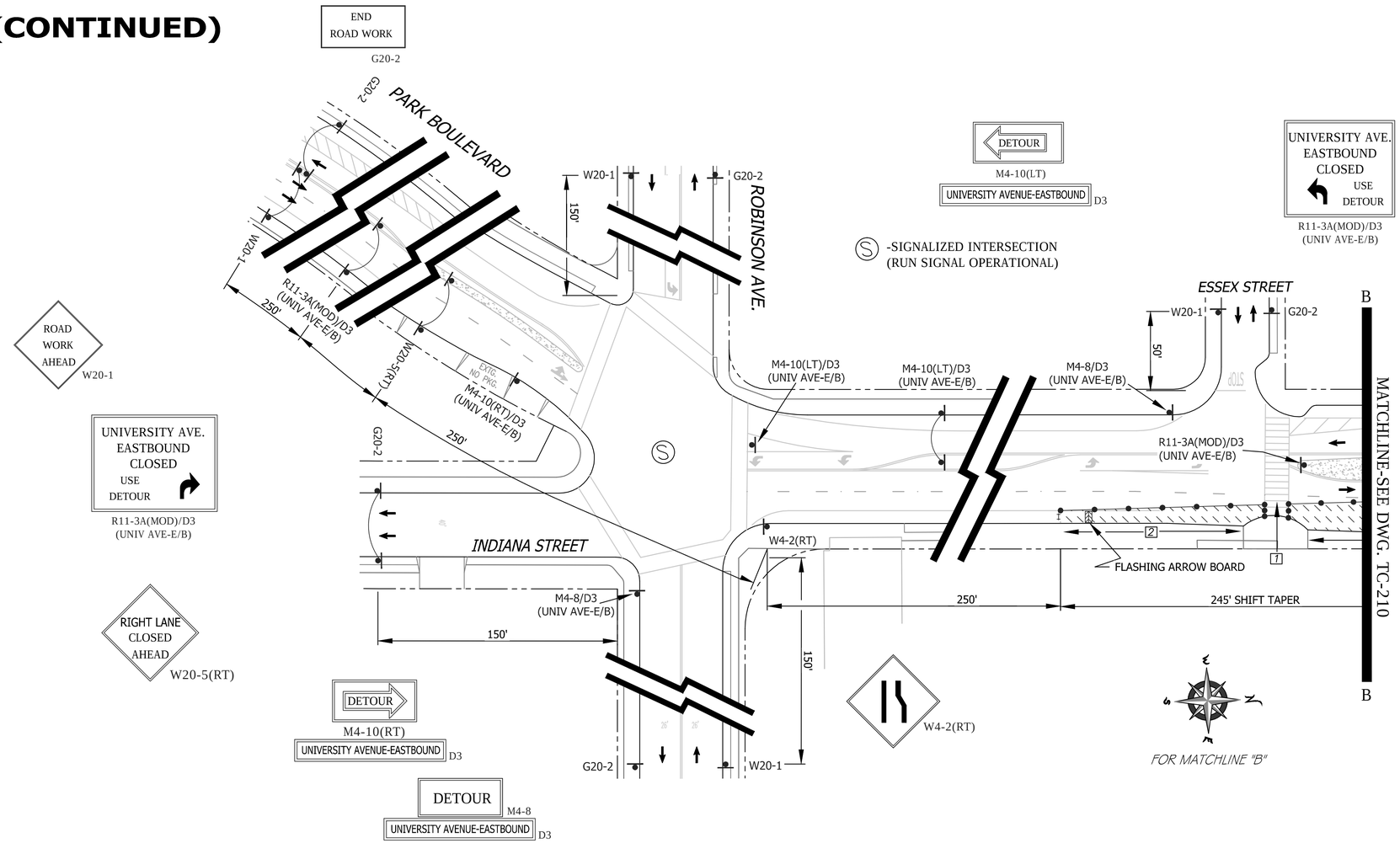
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 121 (CONTINUED)



SHEET NOTES

1 -PEDESTRIAN CROSSWALK. CONTRACTOR SHALL LEAVE A TEN (10') FOOT WIDE OPENING TO ALLOW PEDESTRIANS ACCESS THRU THE TAPER. CONE SPACING SHALL BE FIVE (5') FOOT MINIMUM ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT
PARK BOULEVARD	35	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601D-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-211

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT PARK BOULEVARD
PHASE 121

CITY OF SAN DIEGO, CALIFORNIA
SHEET 211 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

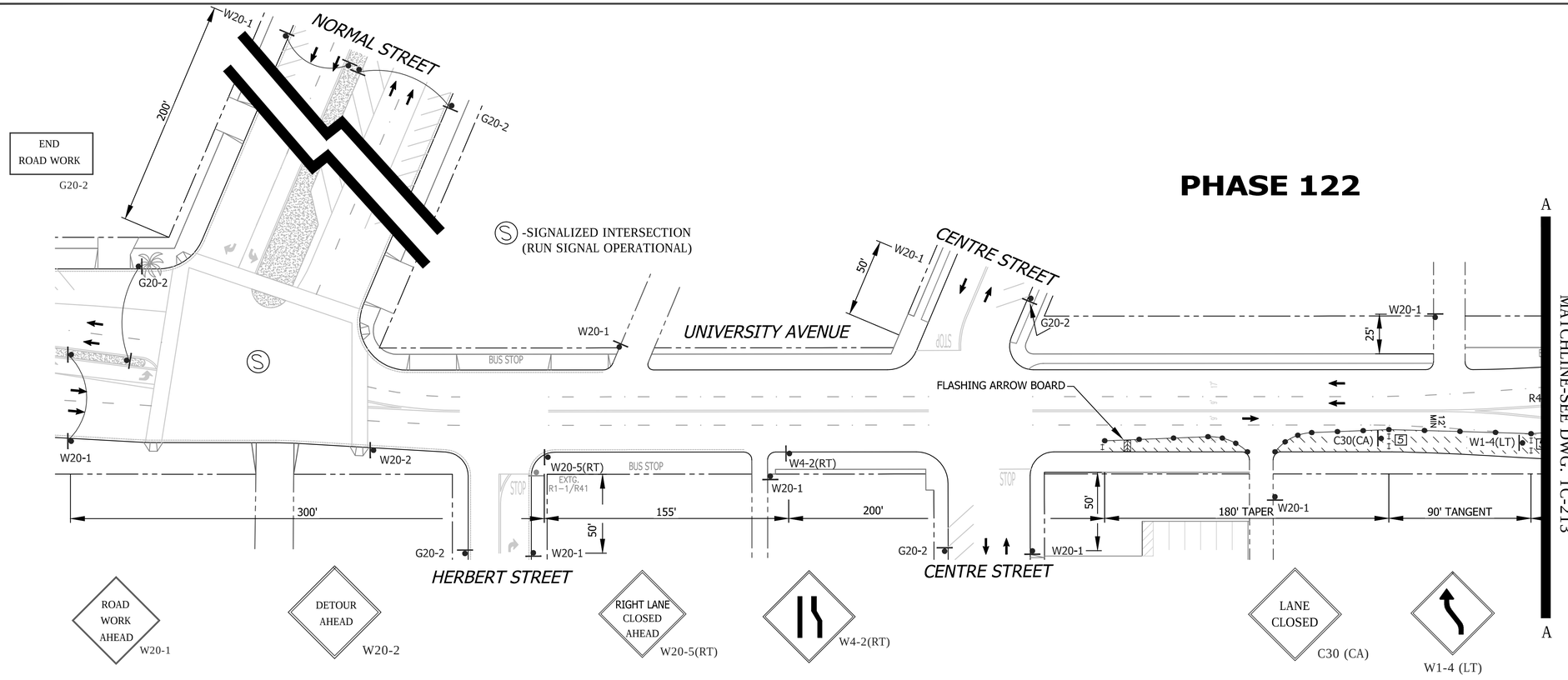
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CCS27 COORDINATE
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T211-D



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
HERBERT/CENTRE ST.	25	N/A	N/A	SEE DWG.	25 FT
NORMAL STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-212

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
PARK BOULEVARD TO FLORIDA STREET
PHASE 122

CITY OF SAN DIEGO, CALIFORNIA
SHEET 212 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

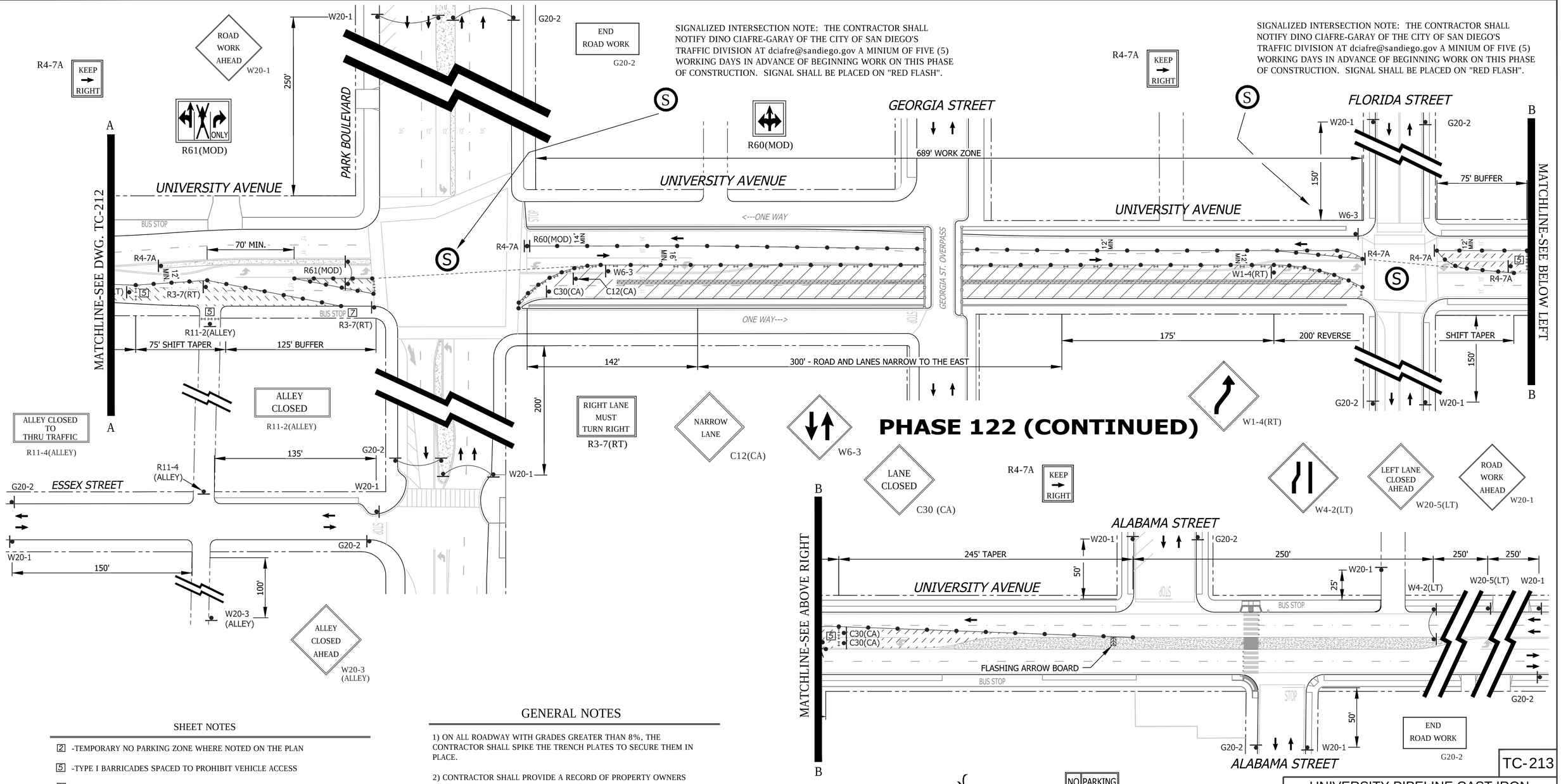
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T212-D



SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT
PARK BOULEVARD	35	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130609S-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
PARK BOULEVARD TO FLORIDA STREET
PHASE 122

CITY OF SAN DIEGO, CALIFORNIA
SHEET 213 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

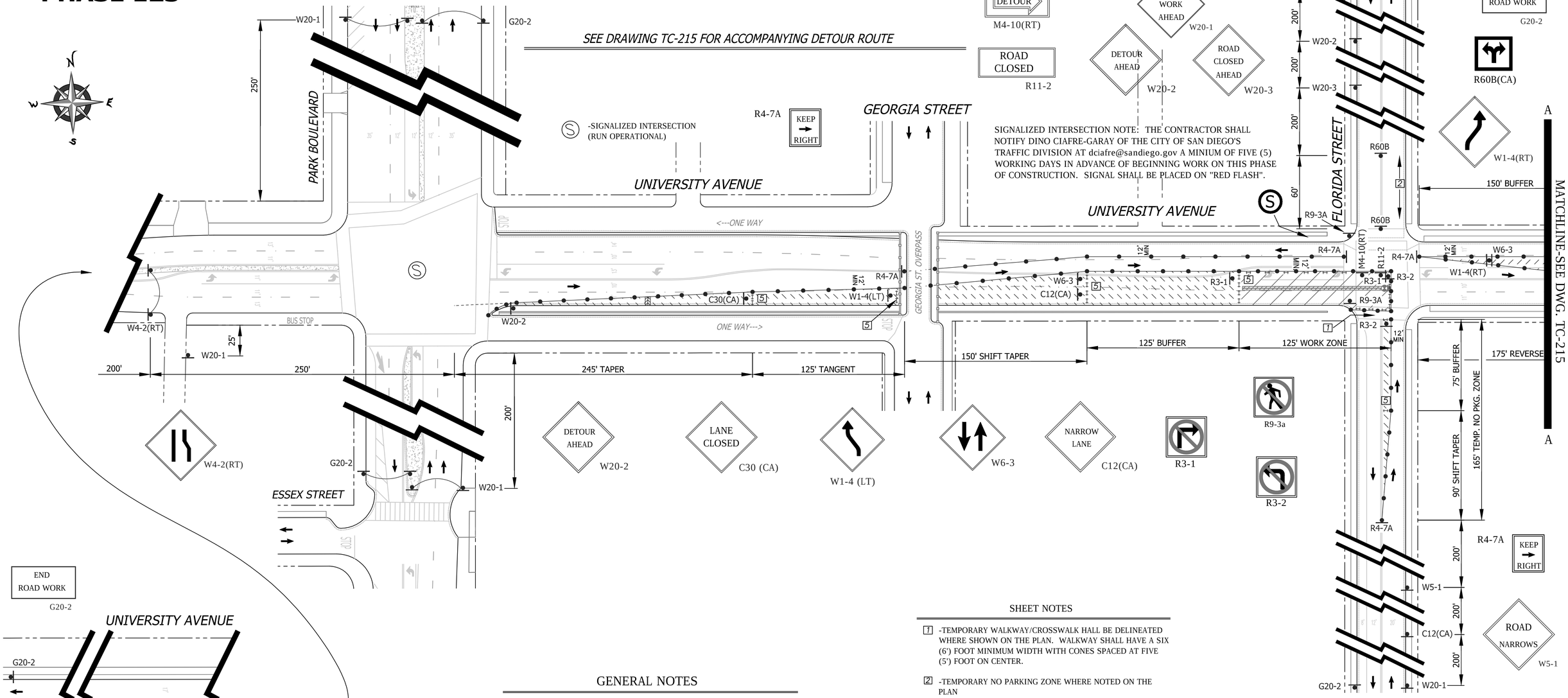
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-213
36656-T213-D

PHASE 123



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -TEMPORARY WALKWAY/CROSSWALK HALL BE DELINEATED WHERE SHOWN ON THE PLAN. WALKWAY SHALL HAVE A SIX (6') FOOT MINIMUM WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-214

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 123

CITY OF SAN DIEGO, CALIFORNIA
SHEET 214 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

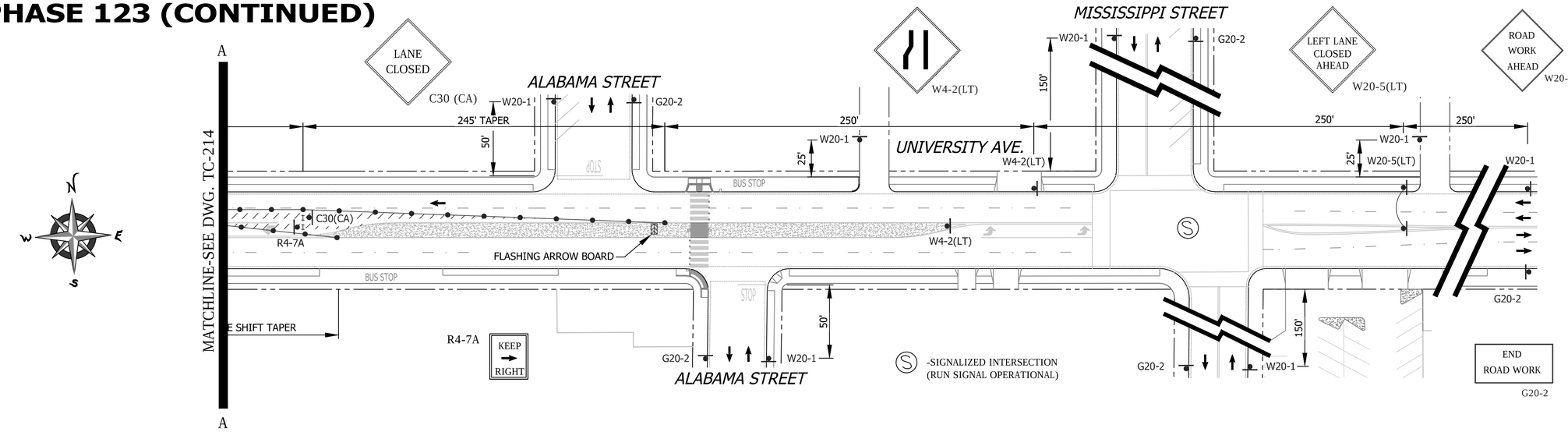
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

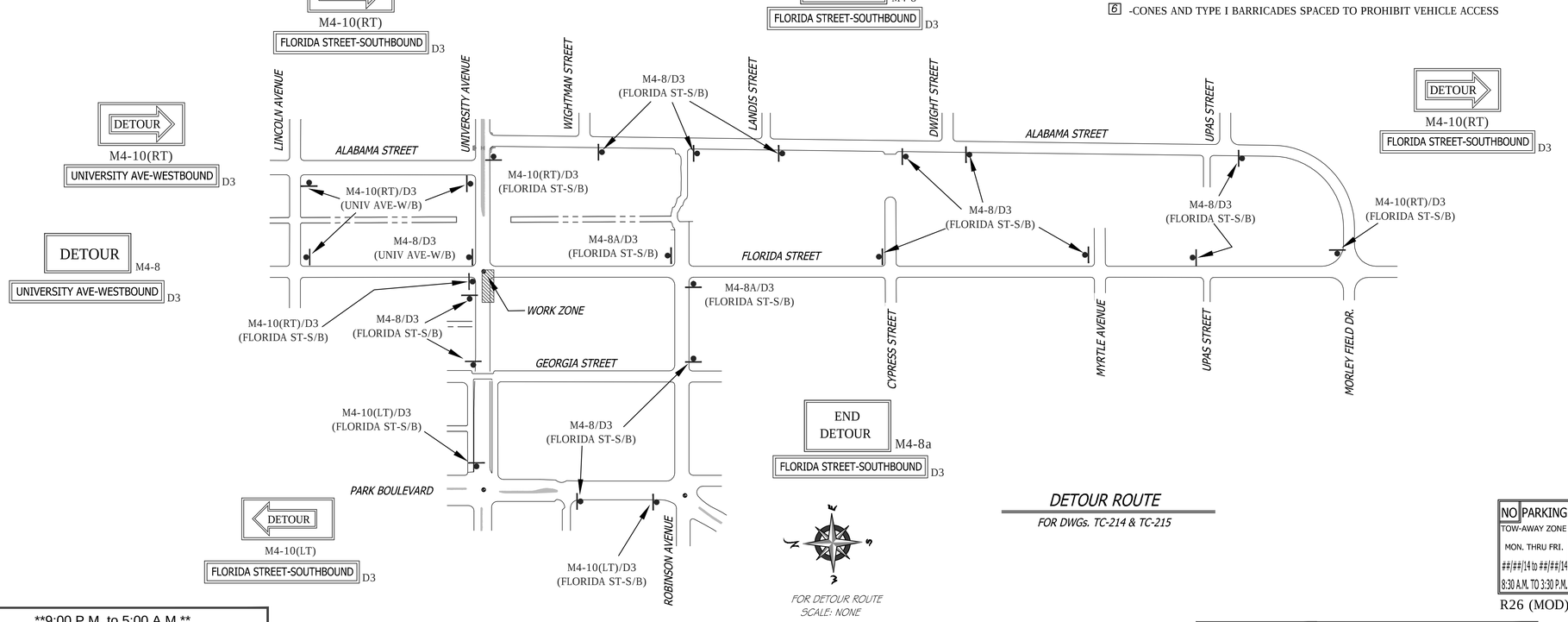
210-1719 CCS27 COORDINATE
185044-6280407 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T214-D

PHASE 123 (CONTINUED)





FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWGs. TC-214 & TC-215

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-215

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 123

CITY OF SAN DIEGO, CALIFORNIA
SHEET 215 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

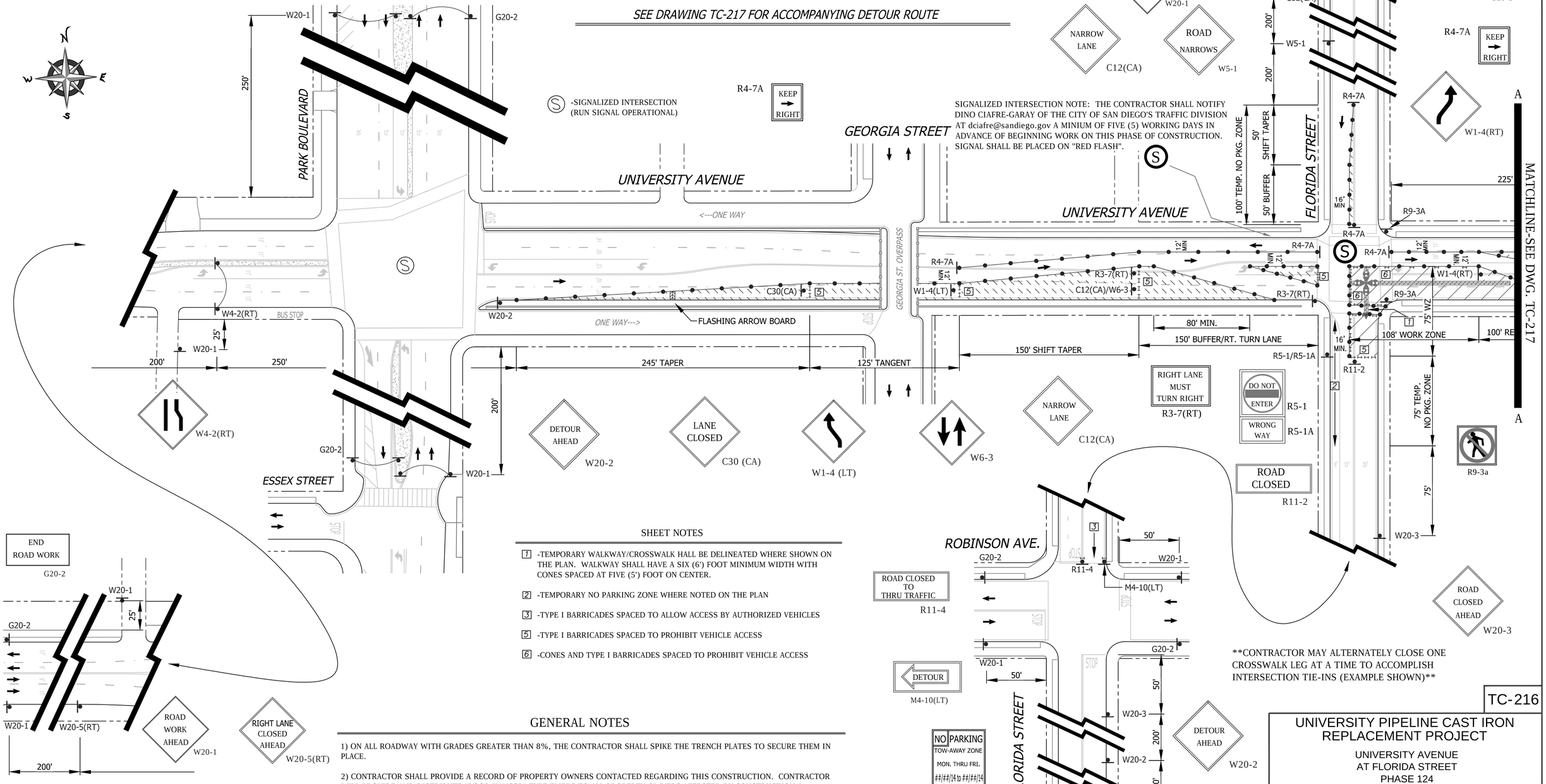
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T215-D

PHASE 124



SHEET NOTES

1. -TEMPORARY WALKWAY/CROSSWALK HALL BE DELINEATED WHERE SHOWN ON THE PLAN. WALKWAY SHALL HAVE A SIX (6') FOOT MINIMUM WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION TIE-INS (EXAMPLE SHOWN)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

TC-216

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 124

CITY OF SAN DIEGO, CALIFORNIA
SHEET 216 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE
36656-T216-D

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

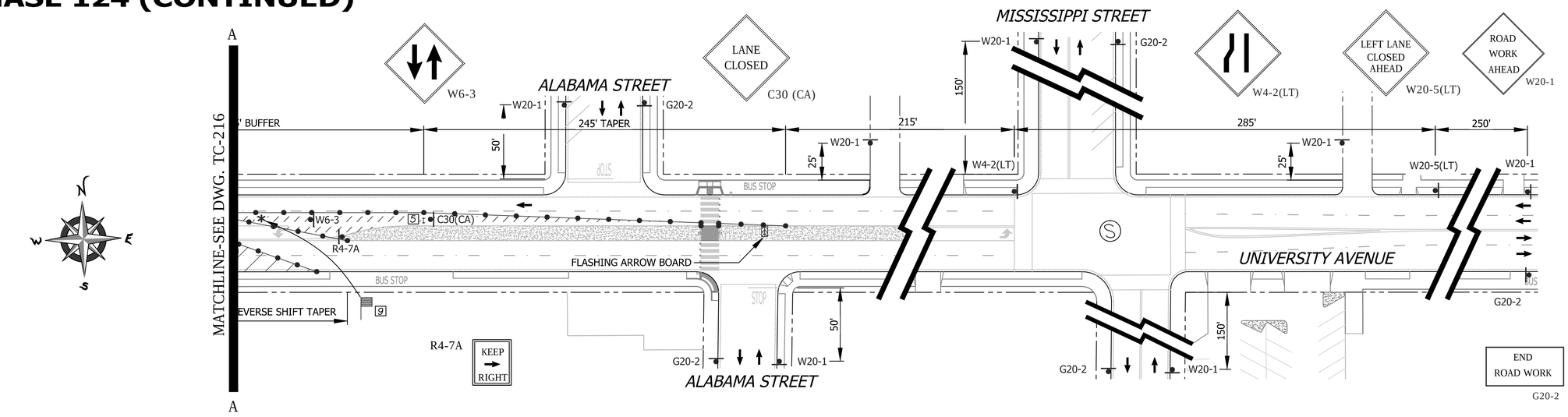
DWG NAME: 130600-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 124 (CONTINUED)



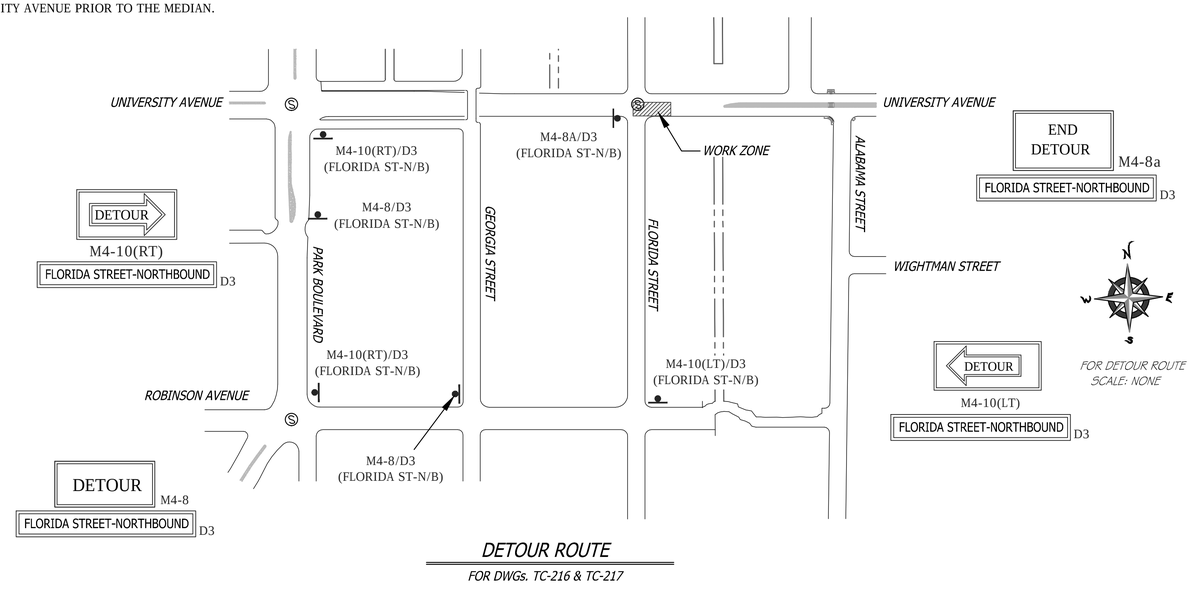
SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

9 -VEHICULAR FLAGMAN. CONTRACTOR SHALL PROVIDE A SAFETY VESTED, HARD HAT EQUIPPED, FLAGMAN TO FACILLITATE VEHICLE MOVEMENT BACK TO THE SOUTHSIDE OF UNIVERSITY AVENUE PRIOR TO THE MEDIAN.



DETOUR ROUTE

FOR DWGs. TC-216 & TC-217

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-217

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 124

CITY OF SAN DIEGO, CALIFORNIA
SHEET 217 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

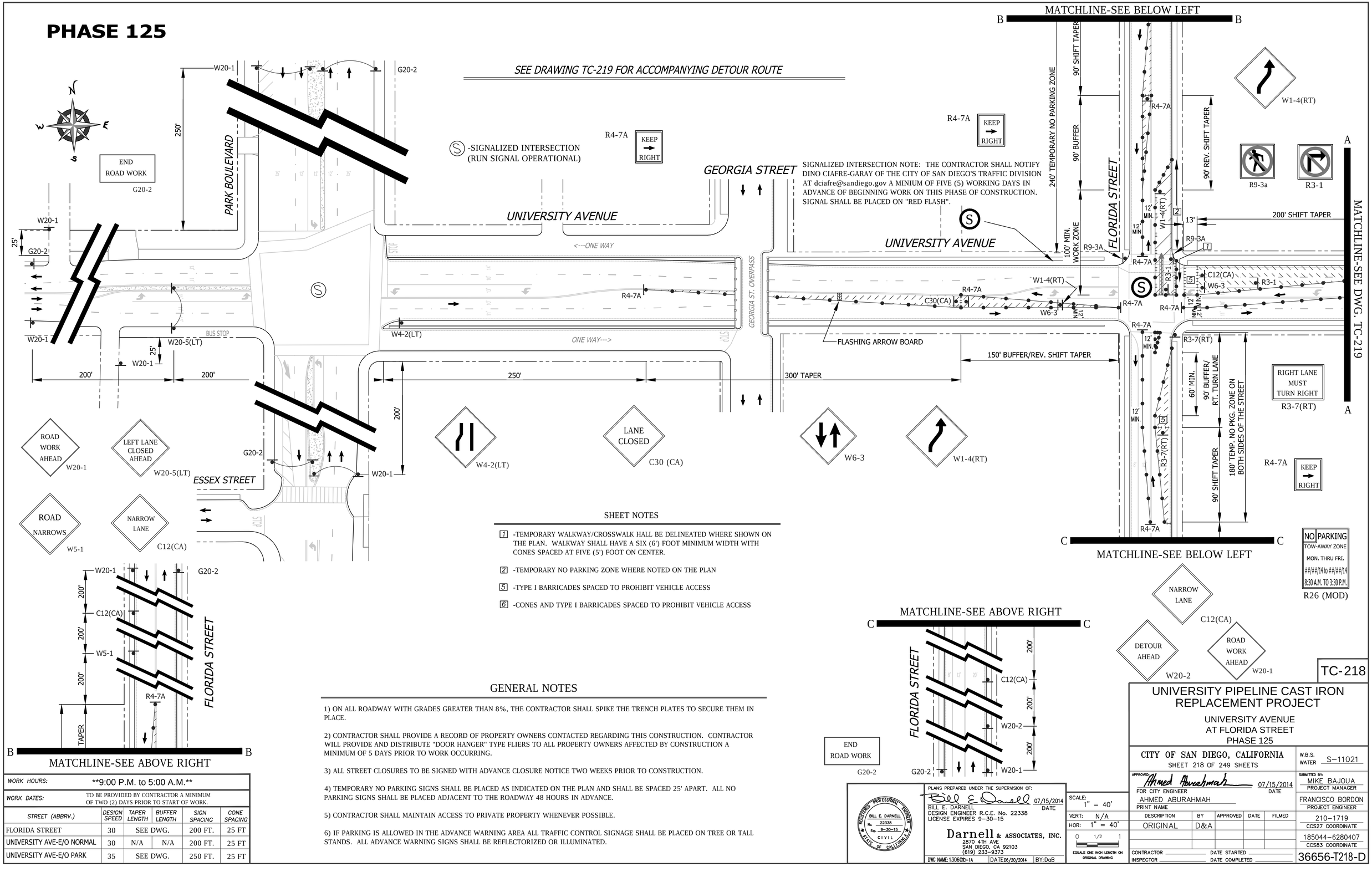
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T217-D

PHASE 125



SHEET NOTES

1 -TEMPORARY WALKWAY/CROSSWALK HALL BE DELINEATED WHERE SHOWN ON THE PLAN. WALKWAY SHALL HAVE A SIX (6') FOOT MINIMUM WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	SEE DWG.		200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130601D-1A | DATE 06/20/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 125

CITY OF SAN DIEGO, CALIFORNIA
SHEET 218 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

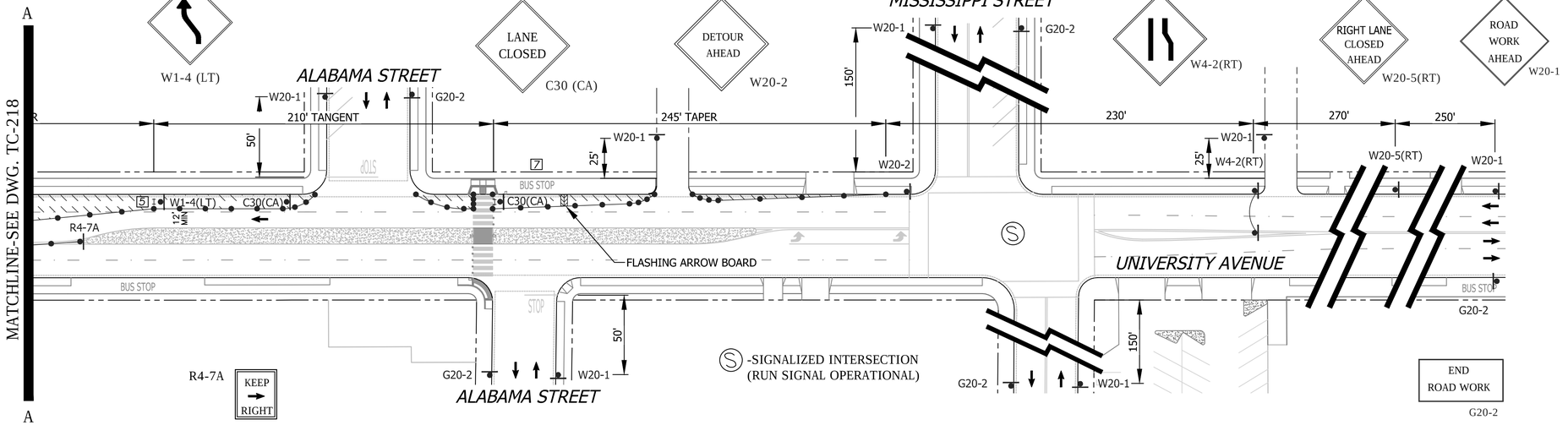
210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-218

36656-T218-D

PHASE 125 (CONTINUED)



SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

DETOUR ROUTE

FOR DWGs. TC-218 & TC-219

FOR DETOUR ROUTE
SCALE: NONE

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS: **9:00 P.M. to 5:00 A.M.**

WORK DATES: TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130609-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-218

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT FLORIDA STREET
PHASE 125

CITY OF SAN DIEGO, CALIFORNIA
SHEET 218 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

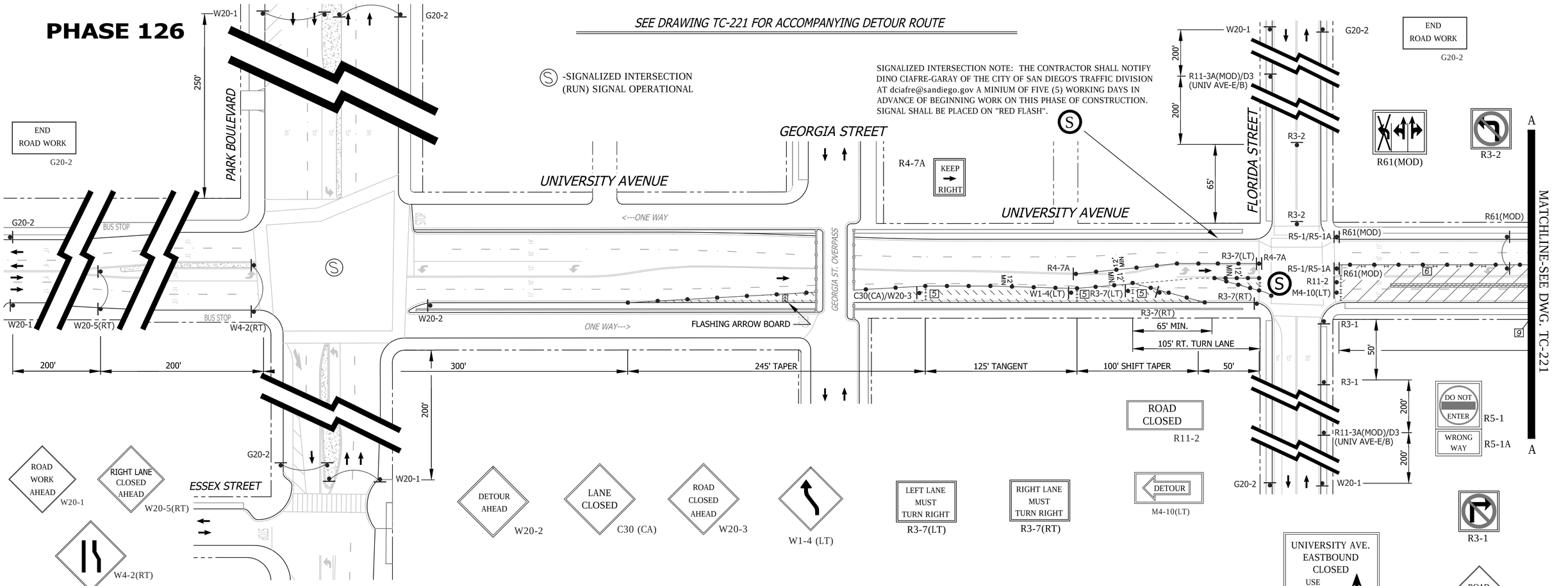
36656-T218-D

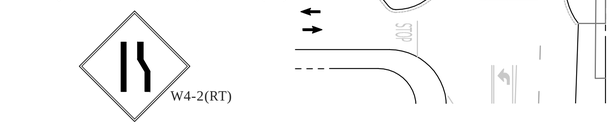
PHASE 126

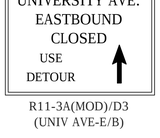
SEE DRAWING TC-221 FOR ACCOMPANYING DETOUR ROUTE

Ⓢ -SIGNALIZED INTERSECTION
(RUN) SIGNAL OPERATIONAL

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".







GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/20/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-220

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FLORIDA STREET TO ALABAMA STREET
PHASE 126

CITY OF SAN DIEGO, CALIFORNIA
SHEET 220 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

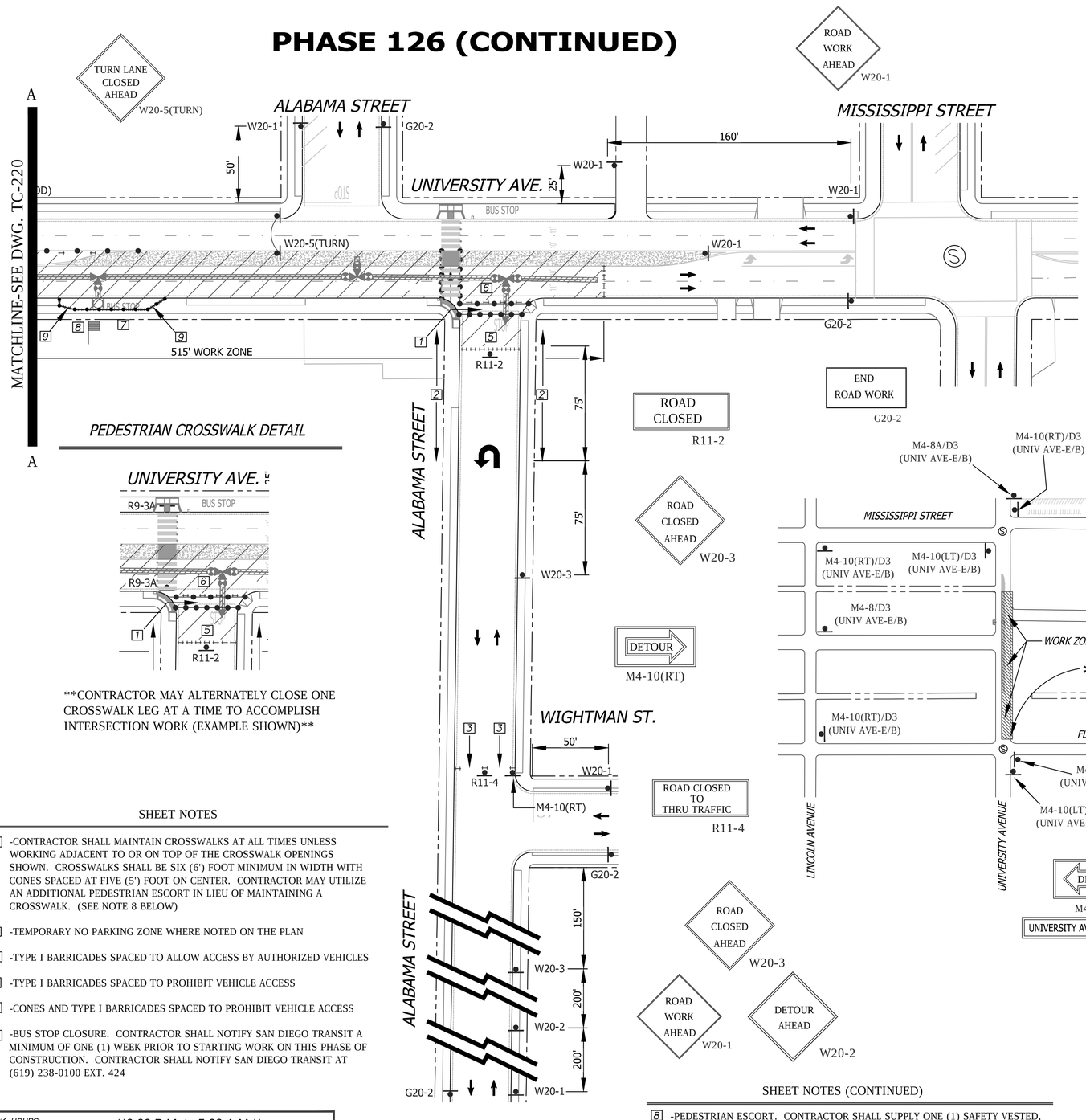
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T220-D

PHASE 126 (CONTINUED)



PEDESTRIAN CROSSWALK DETAIL

CONTRACTOR MAY ALTERNATELY CLOSE ONE CROSSWALK LEG AT A TIME TO ACCOMPLISH INTERSECTION WORK (EXAMPLE SHOWN)

SHEET NOTES

[1] -CONTRACTOR SHALL MAINTAIN CROSSWALKS AT ALL TIMES UNLESS WORKING ADJACENT TO OR ON TOP OF THE CROSSWALK OPENINGS SHOWN. CROSSWALKS SHALL BE SIX (6') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FOOT ON CENTER. CONTRACTOR MAY UTILIZE AN ADDITIONAL PEDESTRIAN ESCORT IN LIEU OF MAINTAINING A CROSSWALK. (SEE NOTE 8 BELOW)

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALABAMA STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

SHEET NOTES (CONTINUED)

[8] -PEDESTRIAN ESCORT. CONTRACTOR SHALL SUPPLY ONE (1) SAFETY VESTED, HARD HAT EQUIPPED, PEDESTRIAN ESCORT TO FACILITATE PEDESTRIAN MOVEMENT AROUND OR THRU THE SIDEWALK WORK ZONE AREA.

[9] -TEMPORARY PEDESTRIAN WALKWAY. CONTRACTOR SHALL CORDON OFF THE SIDEWALK WORK ZONE FROM PEDESTRIANS WITH A FIVE (5') FOOT MINIMUM WIDE TEMPORARY PEDESTRIAN WALKWAY USING FOUR (4') FOOT HIGH ORANGE SAFETY FENCING ATTACHED TO 48" HIGH TRAFFIC SAFETY FLEXIBLE POSTS OR DELINEATORS.

Ⓢ -SIGNALIZED INTERSECTION
(RUN) SIGNAL OPERATIONAL

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

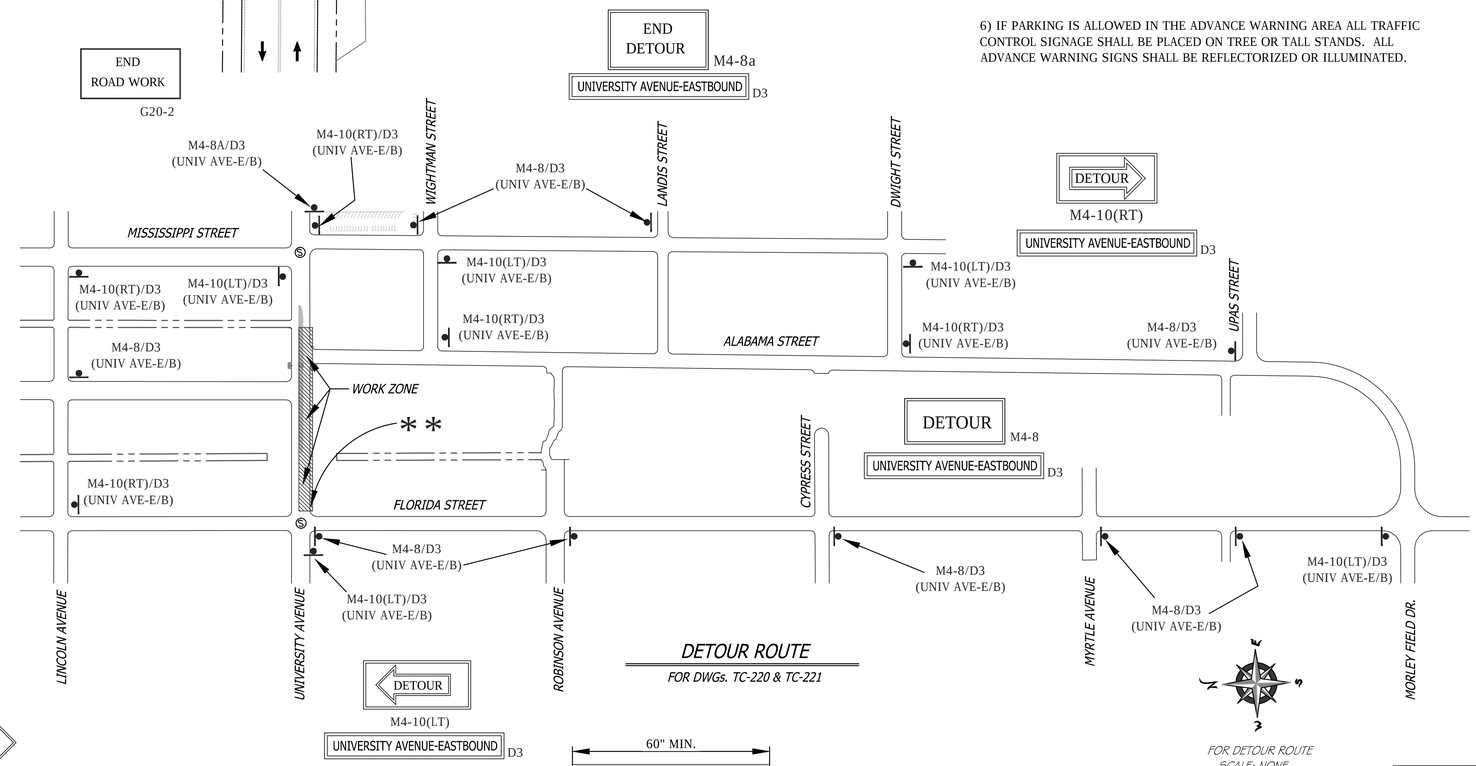
2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.



DETOUR ROUTE

FOR DWGs. TC-220 & TC-221

FOR DETOUR ROUTE SCALE: NONE

** -ADVANCE NOTIFICATION SIGN SHALL BE PLACED ADJACENT TO THE ROADWAY A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGN SHALL BE RETROREFLECTIVE AND SUITABLE FOR NIGHTTIME DRIVING.

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-221

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
FLORIDA STREET TO ALABAMA STREET
PHASE 126

CITY OF SAN DIEGO, CALIFORNIA
SHEET 221 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

210-1719
CCS27 COORDINATE
185044-6280407
CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T221-D

MATCHLINE-SEE DWG. TC-223

B — B

W5-1

ROAD NARROWS
W5-1

R4-7A

KEEP RIGHT

150'

125' SHIFT TAPER

75' BUFFER

TEMPORARY NO PARKING ZONE

WORK ZONE

ALABAMA STREET

END ROAD WORK
G20-2

ROAD WORK AHEAD
W20-1

DETOUR
M4-9B(LT)

R9-3a

ALLEY CLOSED
R11-2(ALLEY)

R3-1

UNIVERSITY AVE. WESTBOUND CLOSED
USE DETOUR
R11-3A(MOD)/D3
(UNIV AVE-W/B)

MISSISSIPPI ST.

W20-1

G20-2

R3-11A(MOD)/D3
(UNIV AVE-W/B)

R3-1

50'

12' MIN

M4-9B(LT) 1

R11-2(ALLEY)

UNIVERSITY AVE.

R9-3A

BUS STOP 7

M4-10(RT)
R11-2

6

5

2

STOP

250'

W20-1

G20-2

50'

ROAD WORK AHEAD
W20-1

ALABAMA STREET

ROAD CLOSED
R11-2

DETOUR
M4-10(RT)

Ⓢ -SIGNALIZED INTERSECTION
(RUN) SIGNAL OPERATIONAL

R60B(CA)

DETOUR
M4-8
UNIVERSITY AVENUE-WESTBOUND
D3

ONLY
R3-5(RT)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

M4-8/D3
(UNIV AVE-W/B)

125' BUFFER

245' TAPER

R60B

W20-1

R3-5(RT)

25'

50'

W20-3

LOUISIANA STREET

G20-2

225'

W20-1

W4-2(LT)

25'

BUS STOP

UNIVERSITY AVE.

C20(CA)

FLASHING ARROW BOARD

UNIVERSITY AVENUE

BUS STOP

STOP

50'

G20-2

W20-1

M4-8/D3
(UNIV AVE-W/B)

R3-2

60'

150'

R3-11A(MOD)/D3
(UNIV AVE-W/B)

150'

G20-2

W20-1

LANE CLOSED
C30 (CA)

UNIVERSITY AVE.
WESTBOUND
CLOSED
USE
DETOUR
R11-3A(MOD)/D3
(UNIV AVE-W/B)

R3-2

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

ROAD CLOSED AHEAD
W20-3

W4-2(LT)

N
W E
S

A

MATCHLINE-SEE DWG. TC-223

A

SHEET NOTES

1 -PEDESTRIAN CROSSWALK SHALL REMAIN OPEN DURING THIS PHASE OF CONSTRUCTION. MAINTAIN ORIGINAL CROSSWALK WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

SEE DRAWING TC-223 FOR ACCOMPANYING DETOUR ROUTE

PHASE 127

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE:06/20/2014 | BY:DaB

SCALE:
1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-222

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ALABAMA STREET
PHASE 127

CITY OF SAN DIEGO, CALIFORNIA
SHEET 222 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

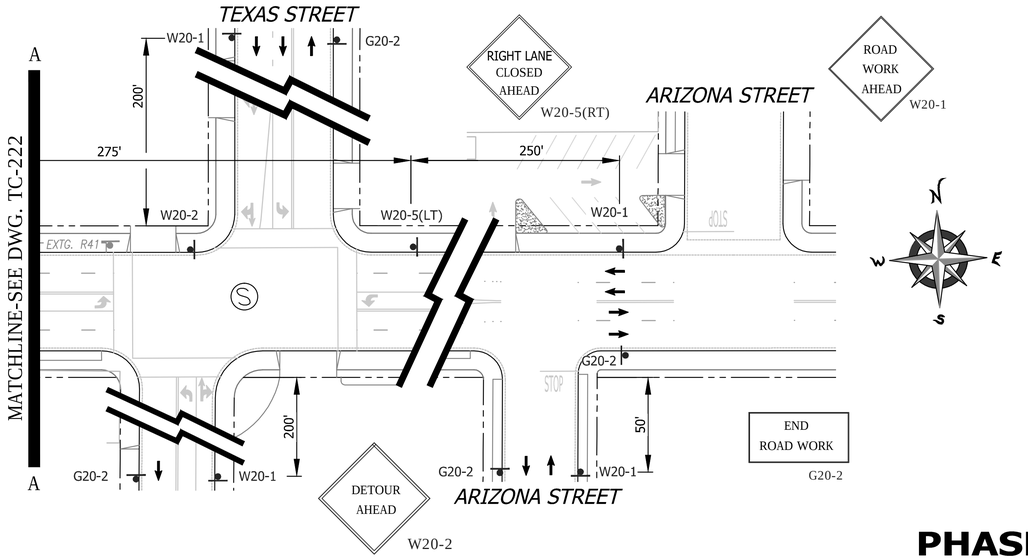
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER

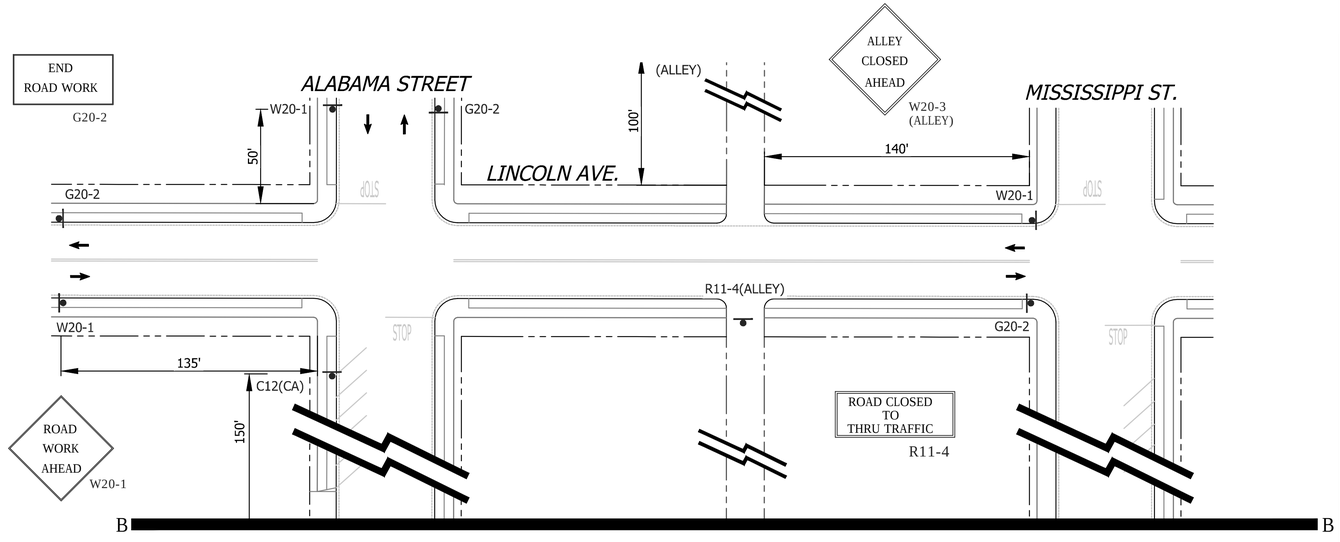
FRANCISCO BORDON
PROJECT ENGINEER

210-1725
CCS27 COORDINATE

1850444-628047
CCS83 COORDINATE

36656-T222-D

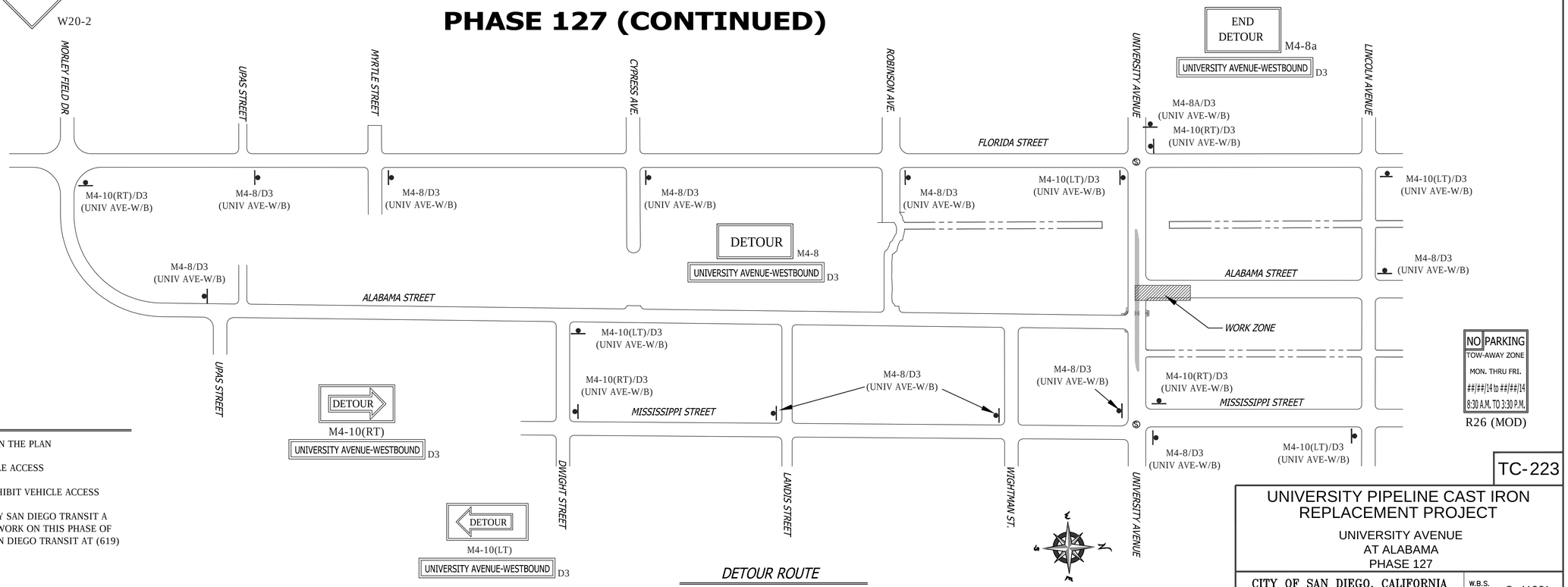




MATCHLINE-SEE DWG. TC-222

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

PHASE 127 (CONTINUED)



DETOUR ROUTE

FOR DWGs. TC-222 & TC-223

FOR DETOUR ROUTE
SCALE: NONE

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / LOUISIANA	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600b-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-223

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ALABAMA
PHASE 127

CITY OF SAN DIEGO, CALIFORNIA
SHEET 223 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

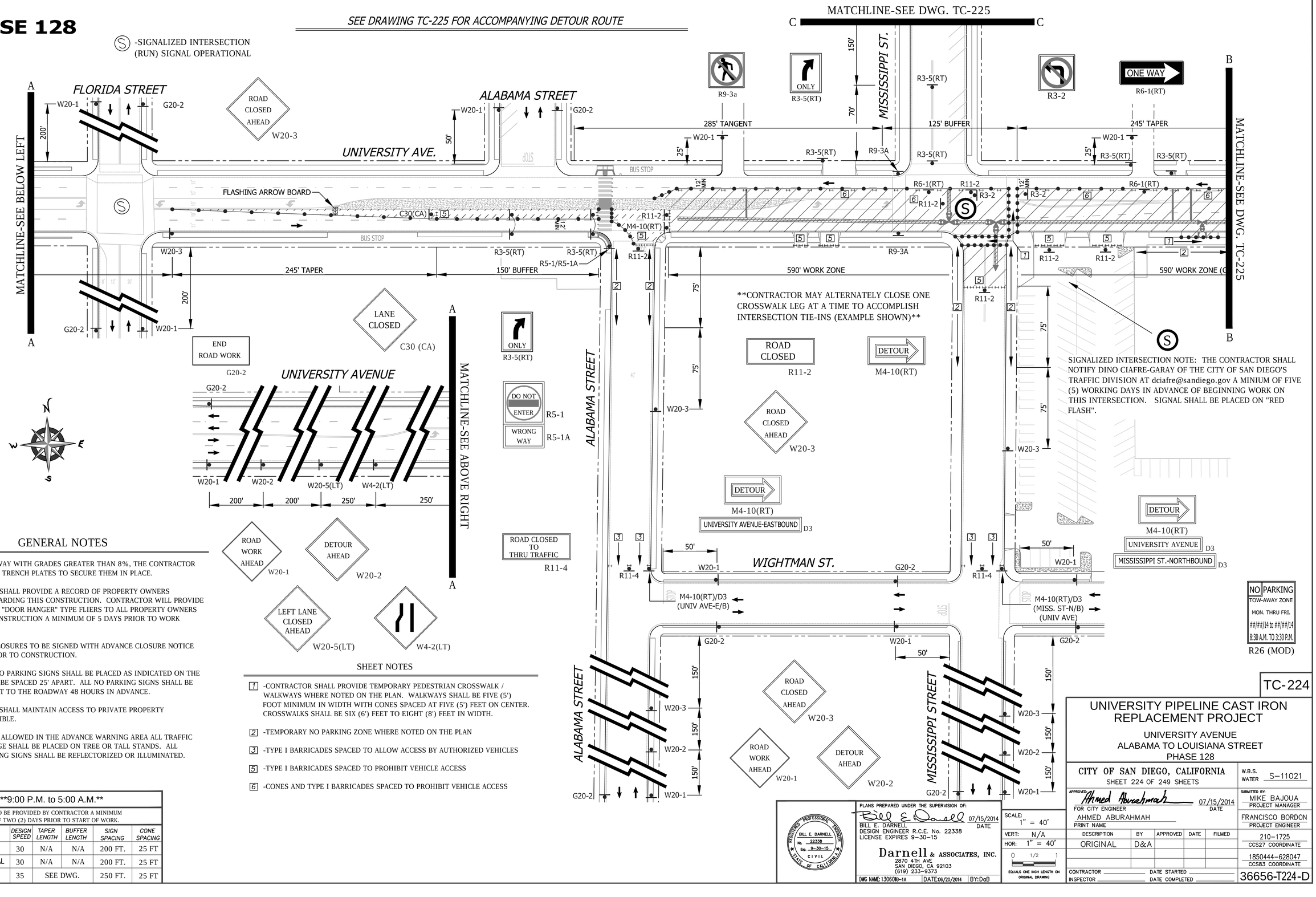
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T223-D

PHASE 128

Ⓢ -SIGNALIZED INTERSECTION
(RUN) SIGNAL OPERATIONAL

SEE DRAWING TC-225 FOR ACCOMPANYING DETOUR ROUTE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O NORMAL	30	N/A	N/A	200 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-224

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ALABAMA TO LOUISIANA STREET
PHASE 128

CITY OF SAN DIEGO, CALIFORNIA
SHEET 224 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

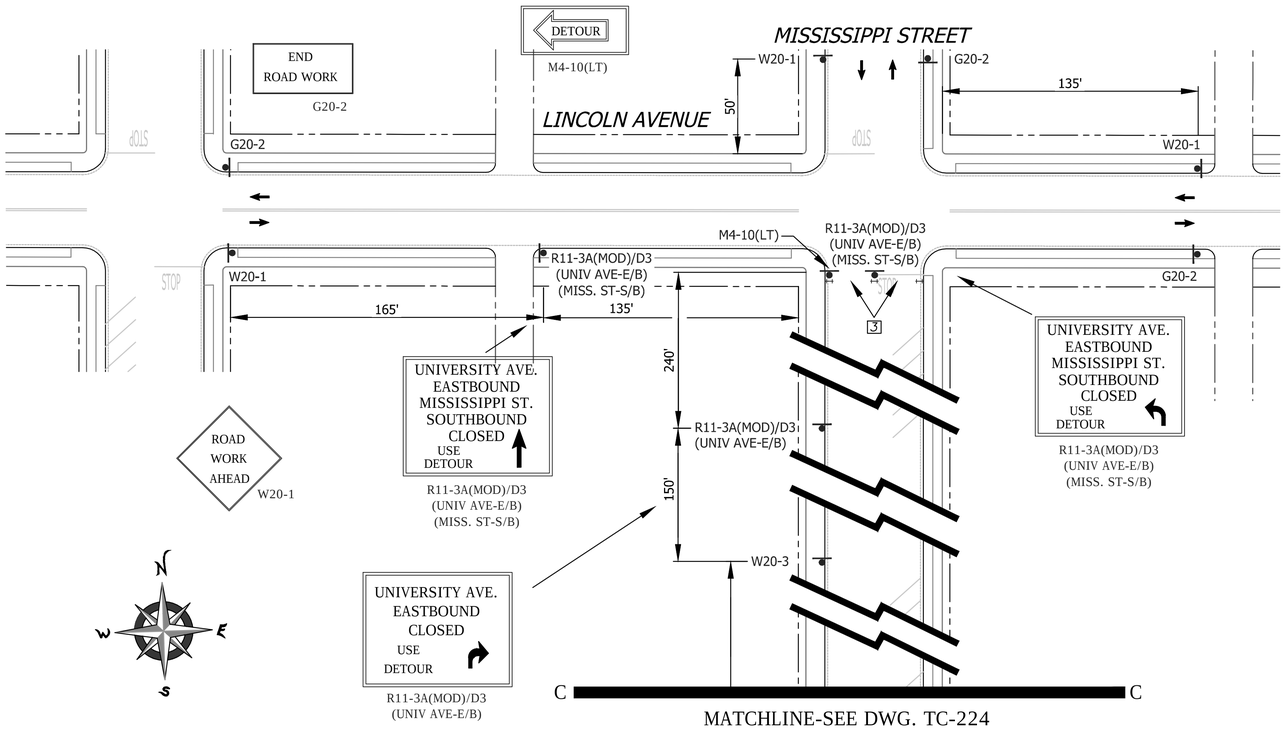
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

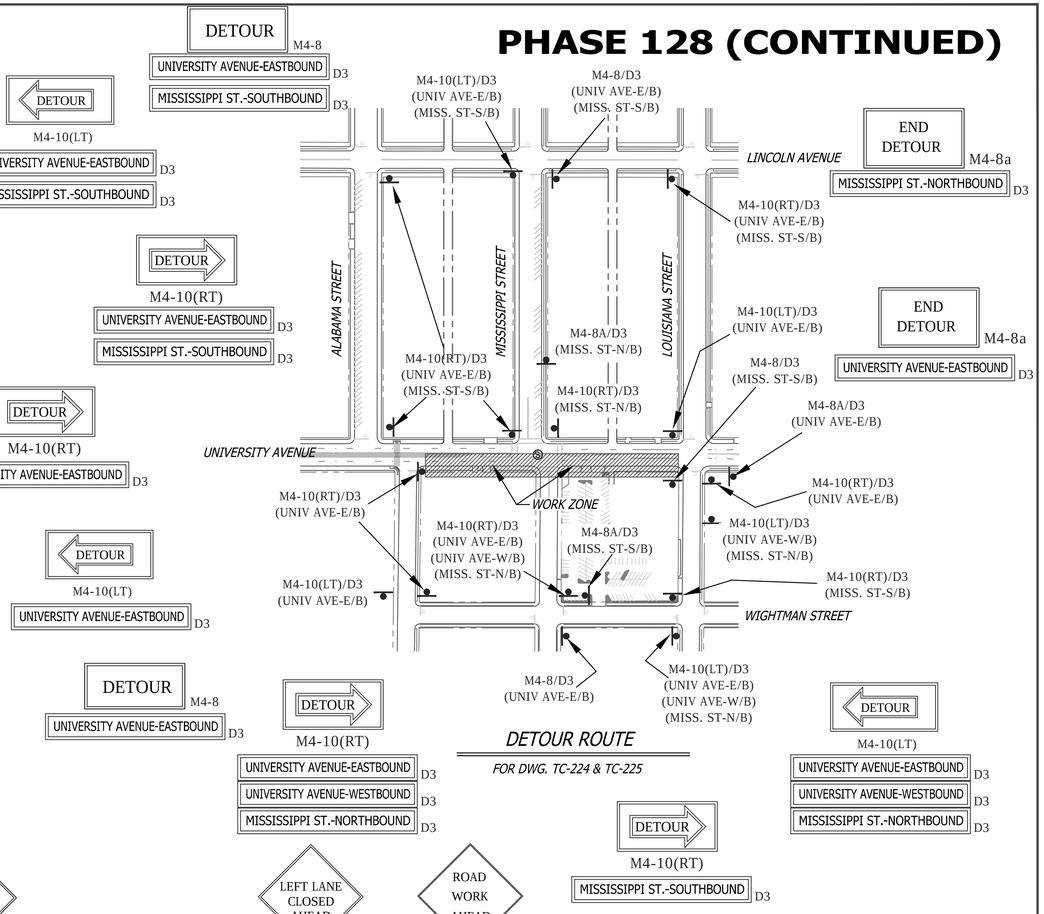
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T224-D



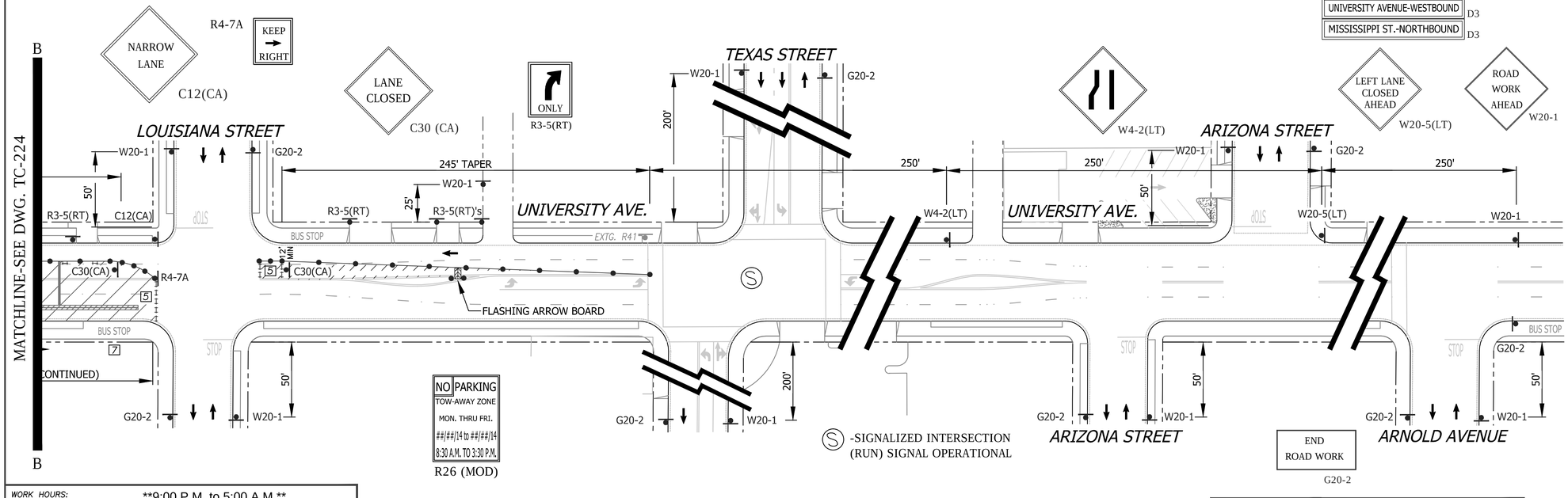
FOR DETOUR ROUTE
SCALE: NONE

PHASE 128 (CONTINUED)



DETOUR ROUTE

FOR DWG. TC-224 & TC-225



SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

TC-225

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ALABAMA TO LOUISIANA STREET
PHASE 128

CITY OF SAN DIEGO, CALIFORNIA
SHEET 225 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T225-D

PHASE 129

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

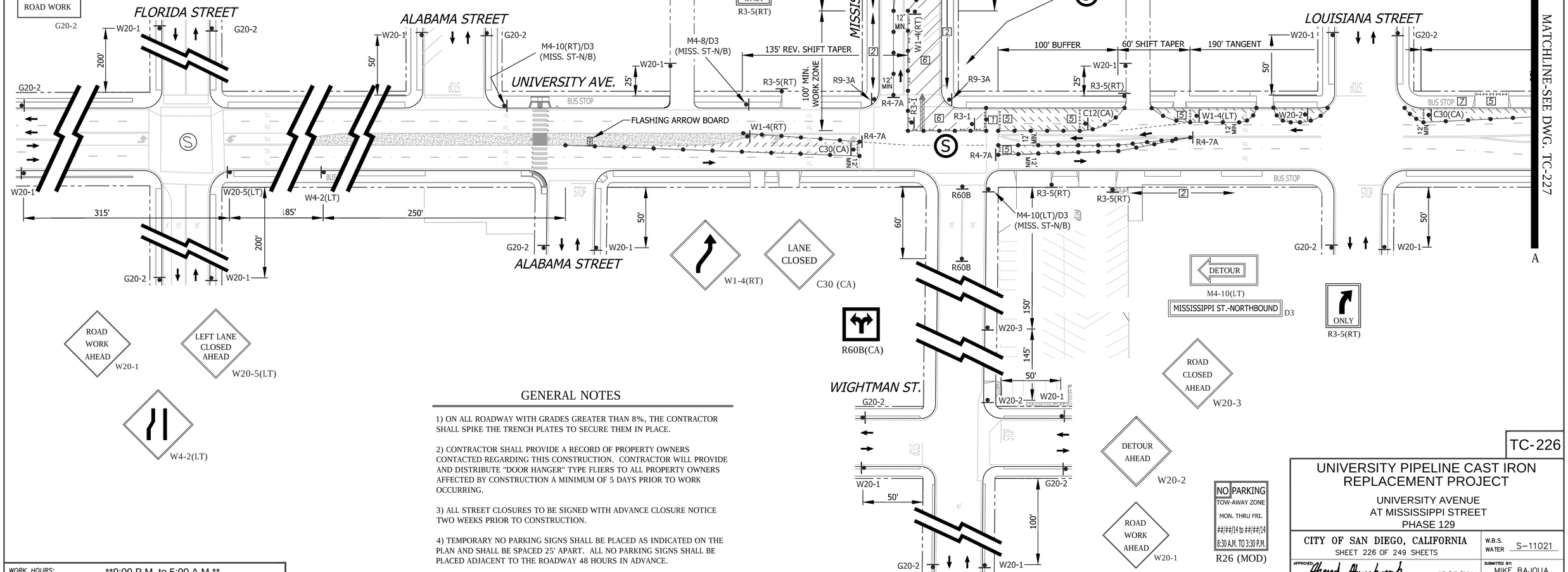
Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

MATCHLINE-SEE DWG. TC-227

MATCHLINE-SEE DWG. TC-227

SEE DRAWING TC-227 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS INTERSECTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI STREET	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
07/15/2014 DATE

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130600c-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-226

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT MISSISSIPPI STREET
PHASE 129

CITY OF SAN DIEGO, CALIFORNIA
SHEET 226 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

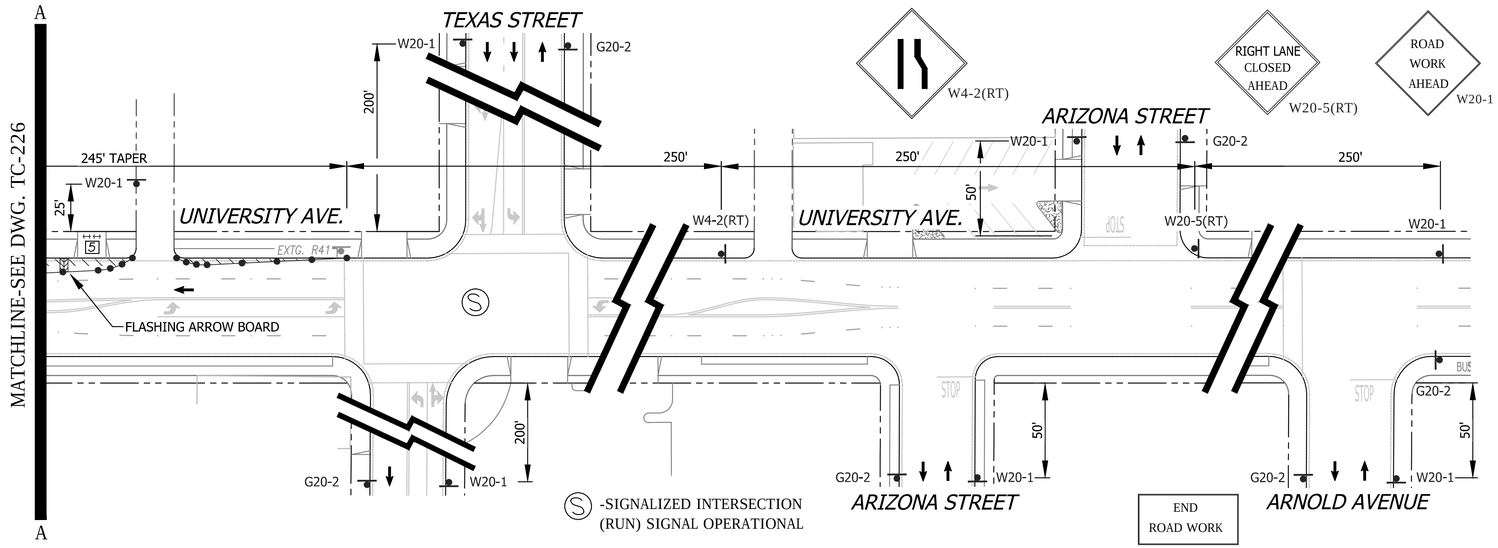
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

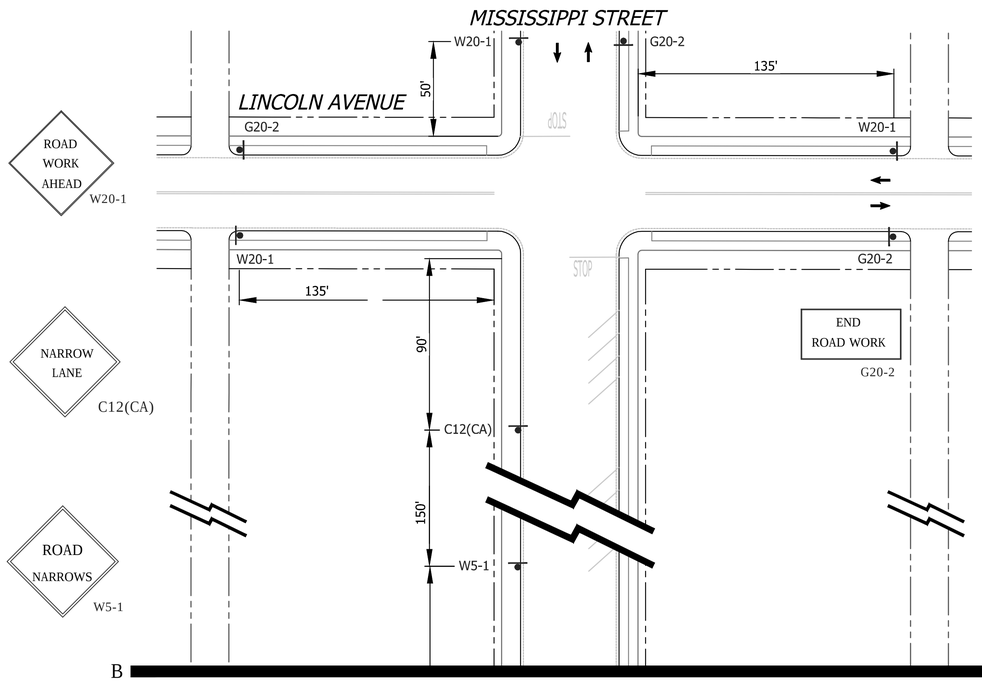
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

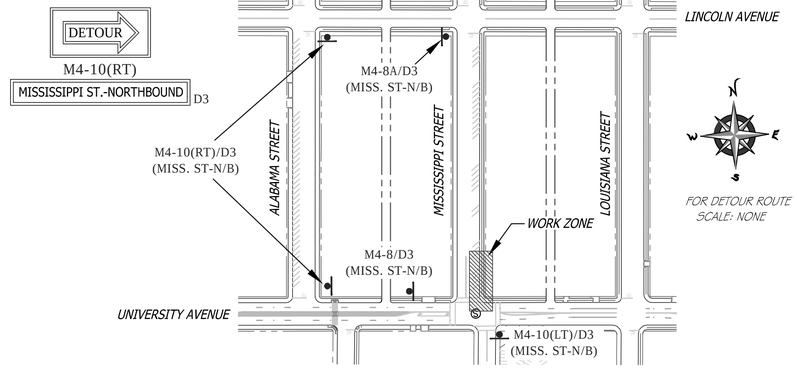
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T226-D

PHASE 129 (CONTINUED)







GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI STREET	25	SEE DWG.		150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

R26 (MOD)

TC-227

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT MISSISSIPPI STREET
PHASE 129

CITY OF SAN DIEGO, CALIFORNIA
SHEET 227 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE
36656-T227-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL — DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE: 06/20/2014 | BY: DaB

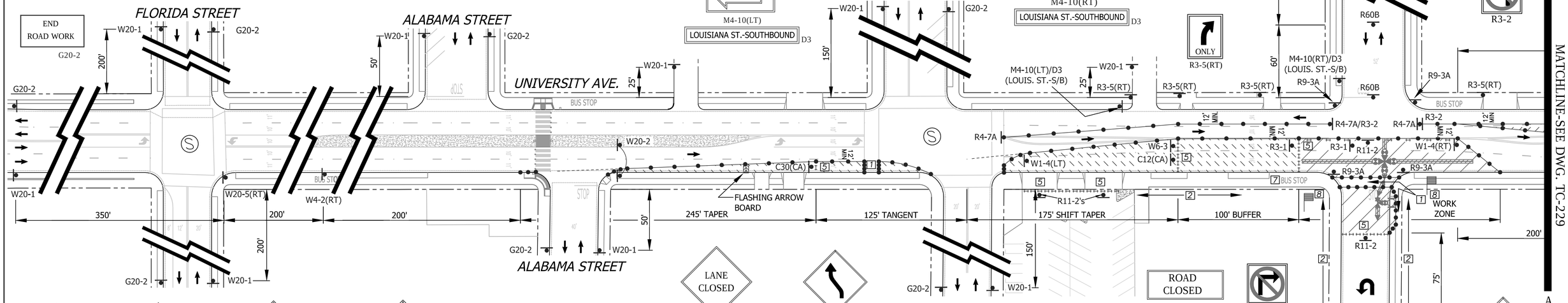
SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

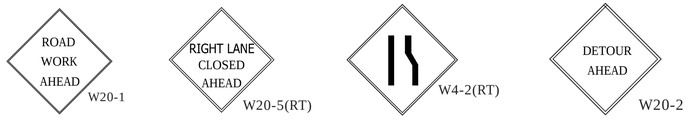
PHASE 130

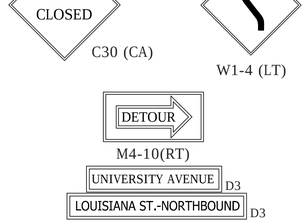
SEE DRAWING TC-229 FOR ACCOMPANYING DETOUR ROUTE

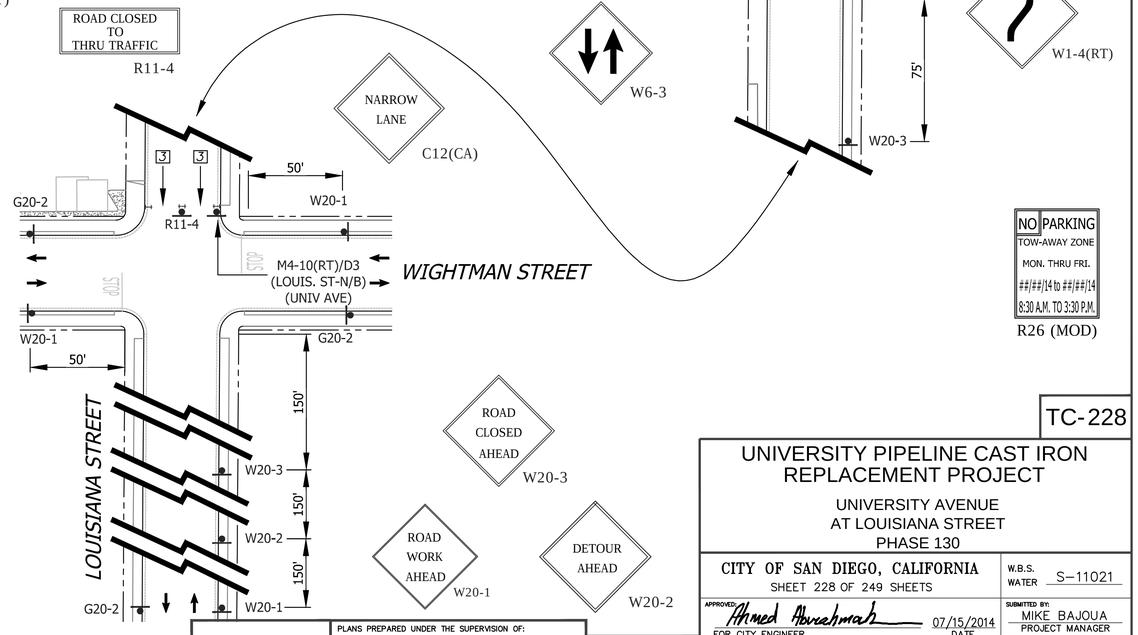
Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL









GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[8] -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE SOUTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY CLOSE THE TEMPORARY CROSSWALK AND UTILIZE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI/LOUISIANA ST.	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-228

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 130

CITY OF SAN DIEGO, CALIFORNIA
SHEET 228 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

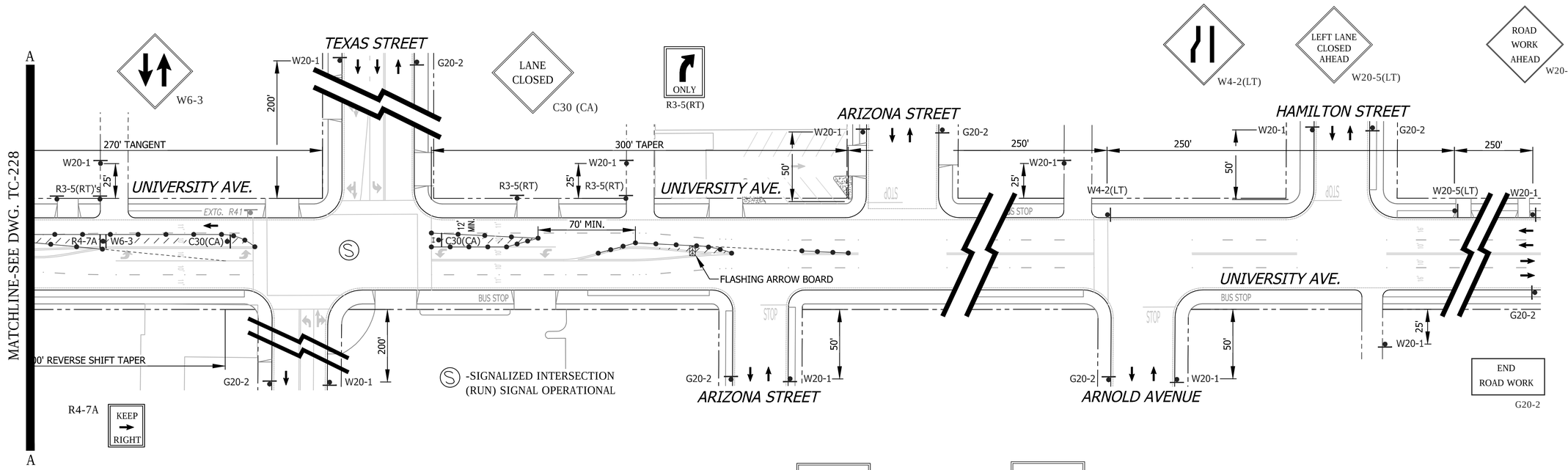
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

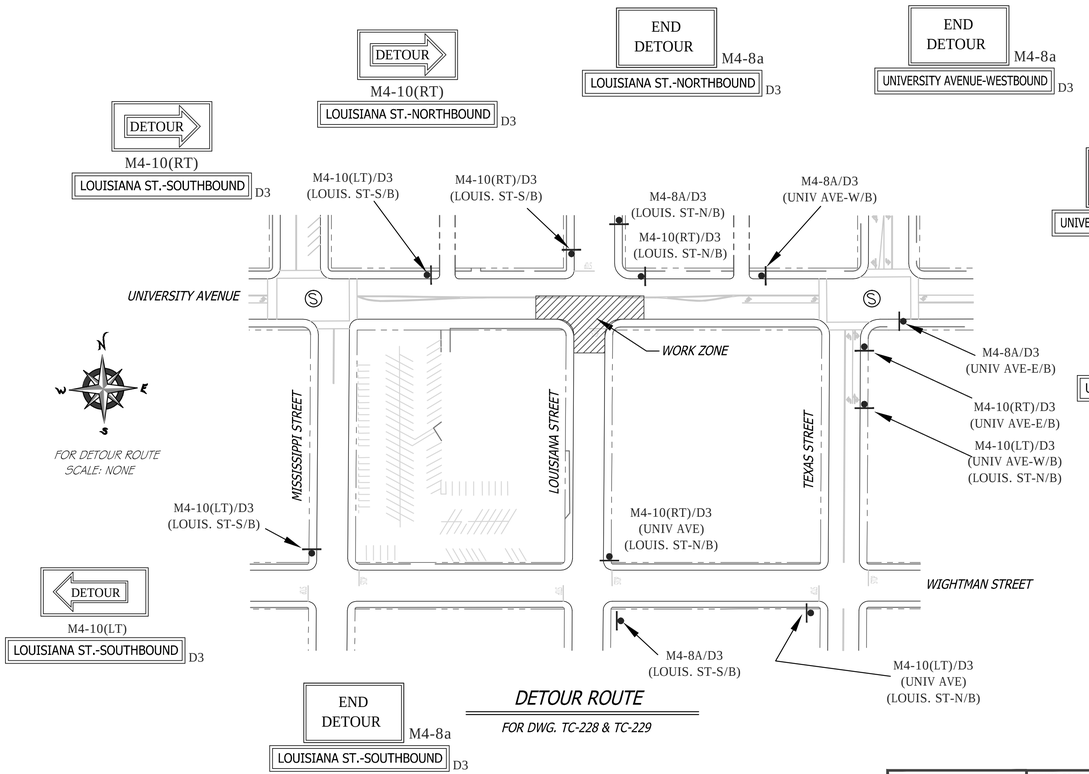
210-1725 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T228-D



PHASE 130 (CONTINUED)



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-228 & TC-229

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

TC-229

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 130

CITY OF SAN DIEGO, CALIFORNIA
SHEET 229 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T229-D

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

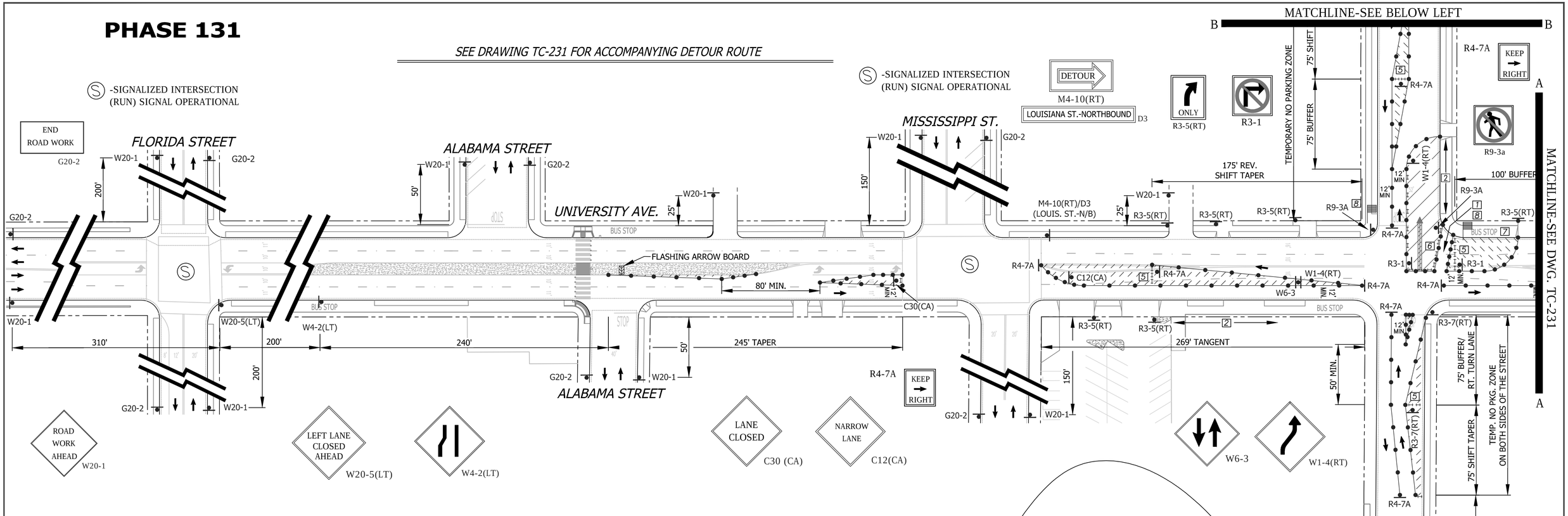
DWG NAME: 13060D-1A | DATE 06/20/2014 | BY: DaB

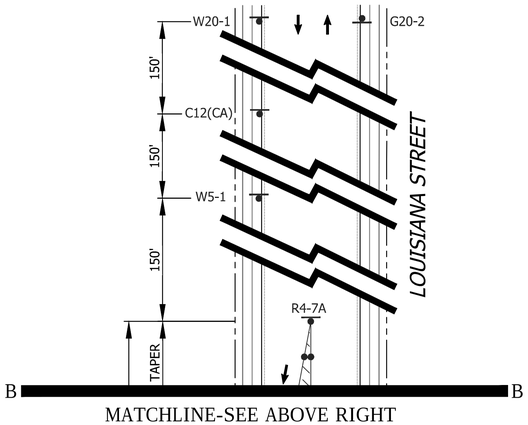
REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

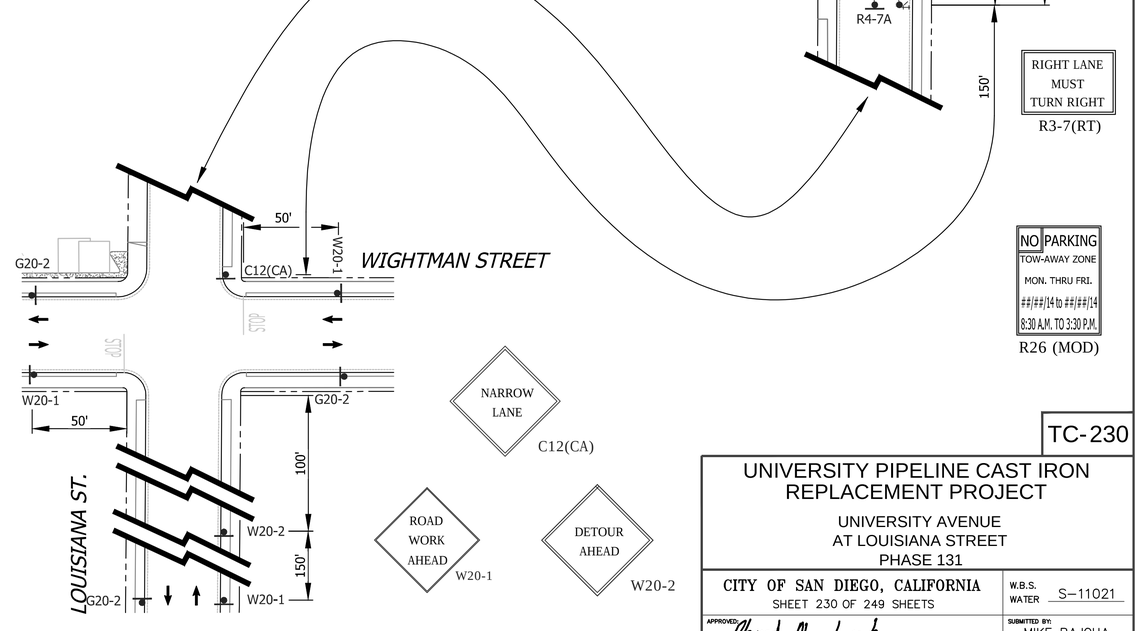
PHASE 131

SEE DRAWING TC-231 FOR ACCOMPANYING DETOUR ROUTE





MATCHLINE-SEE ABOVE RIGHT



SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE NORTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY UTILIZE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT FROM THE NORTWEST CORNER TO THE NORTHEAST CORNER AND VICE VERSA (AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
MISSISSIPPI/LOUISIANA ST.	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306018-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-230

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 131

CITY OF SAN DIEGO, CALIFORNIA
SHEET 230 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER — DATE
AHMED ABURAHMAH
PRINT NAME

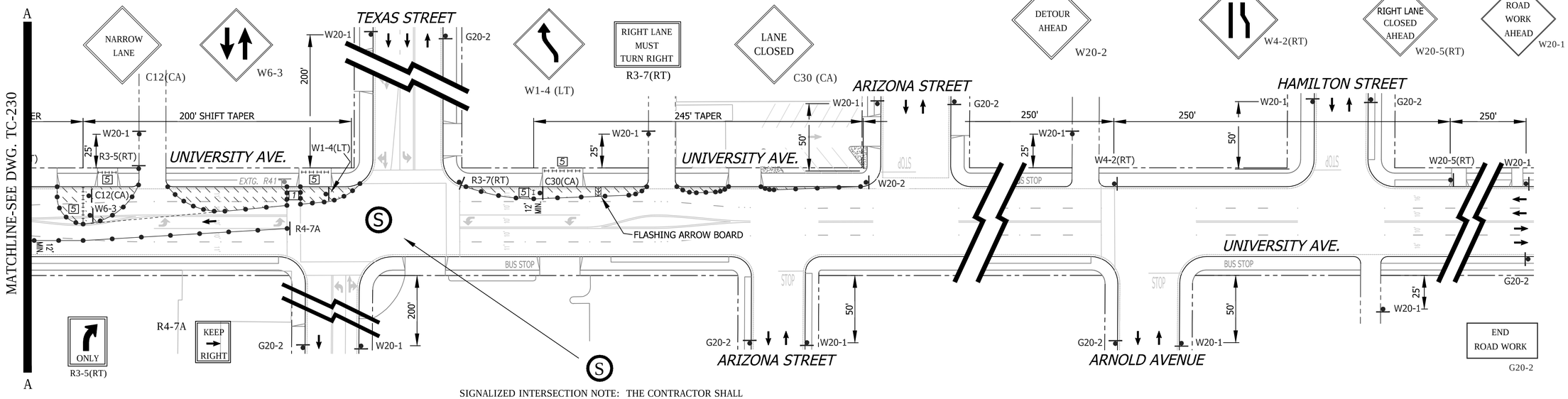
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T230-D



SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS PHASE OF CONSTRUCTION. SIGNAL SHALL BE PLACED ON "RED FLASH".

PHASE 131 (CONTINUED)

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

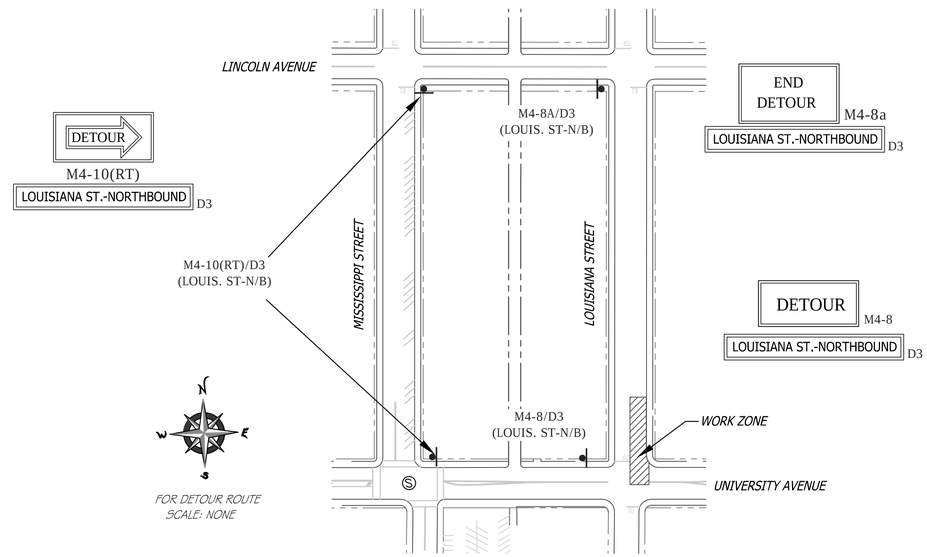
3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT



DETOUR ROUTE

FOR DWG. TC-230 & TC-231

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

8 -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE NORTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY UTILIZE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT FROM THE NORTWEST CORNER TO THE NORTHEAST CORNER AND VICE VERSA (AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-231

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT LOUISIANA STREET
PHASE 131

CITY OF SAN DIEGO, CALIFORNIA
SHEET 231 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

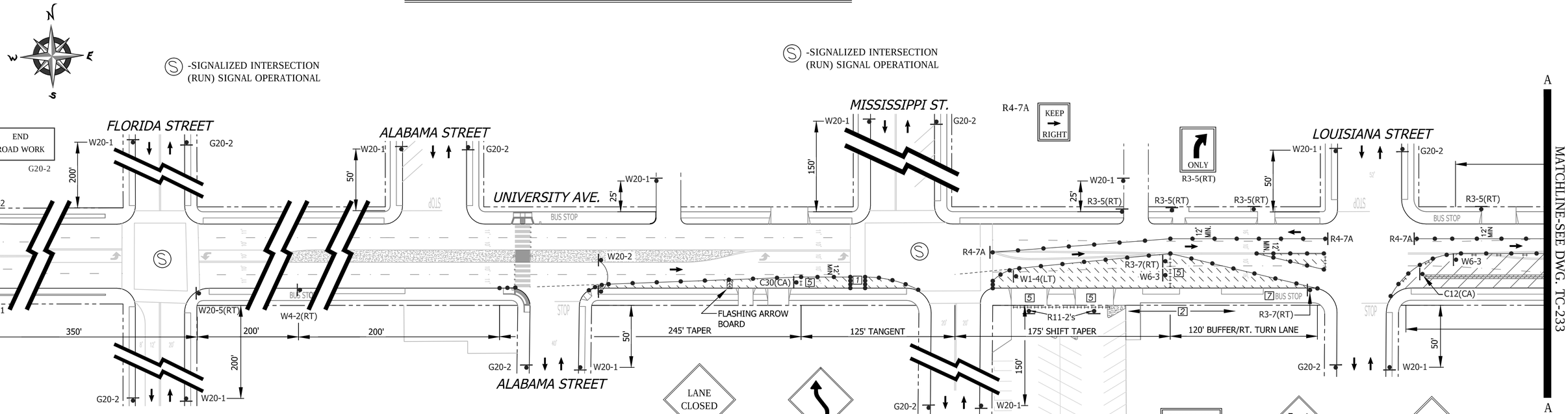
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T231-D

PHASE 132

SEE DRAWING TC-233 FOR ACCOMPANYING DETOUR ROUTE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
FLORIDA STREET	30	N/A	N/A	200 FT.	25 FT
ALA./MISS./LOUIS. ST.	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

[7] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-232

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130602-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
LOUISIANA STREET TO TEXAS STREET
PHASE 132

CITY OF SAN DIEGO, CALIFORNIA
SHEET 232 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

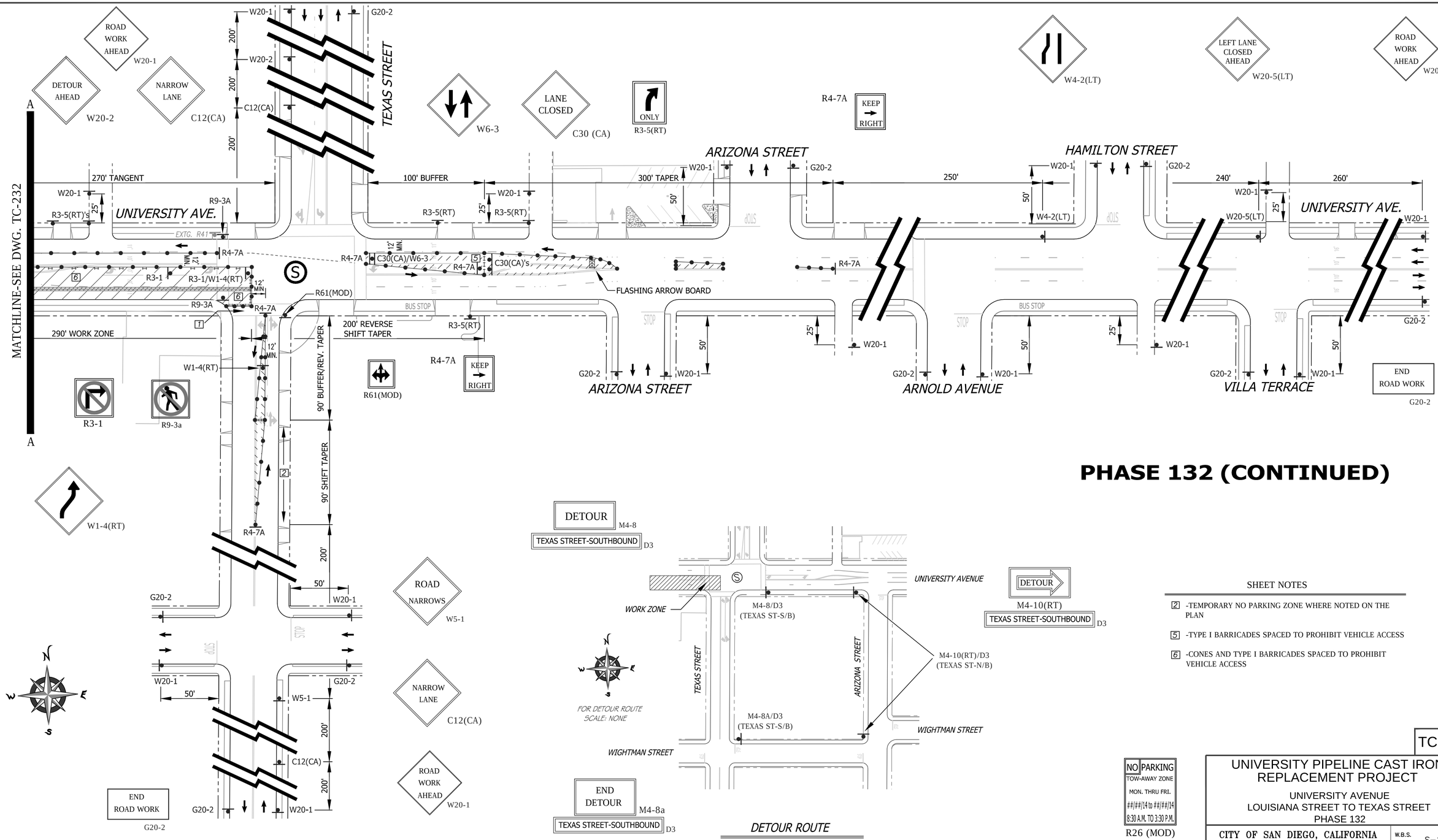
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T232-D

PHASE 132 (CONTINUED)



DETOUR M4-10(RT)
TEXAS STREET-SOUTHBOUND D3

DETOUR ROUTE

FOR DWG. TC-232 & TC-233

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-233

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
LOUISIANA STREET TO TEXAS STREET
PHASE 132

CITY OF SAN DIEGO, CALIFORNIA
SHEET 233 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

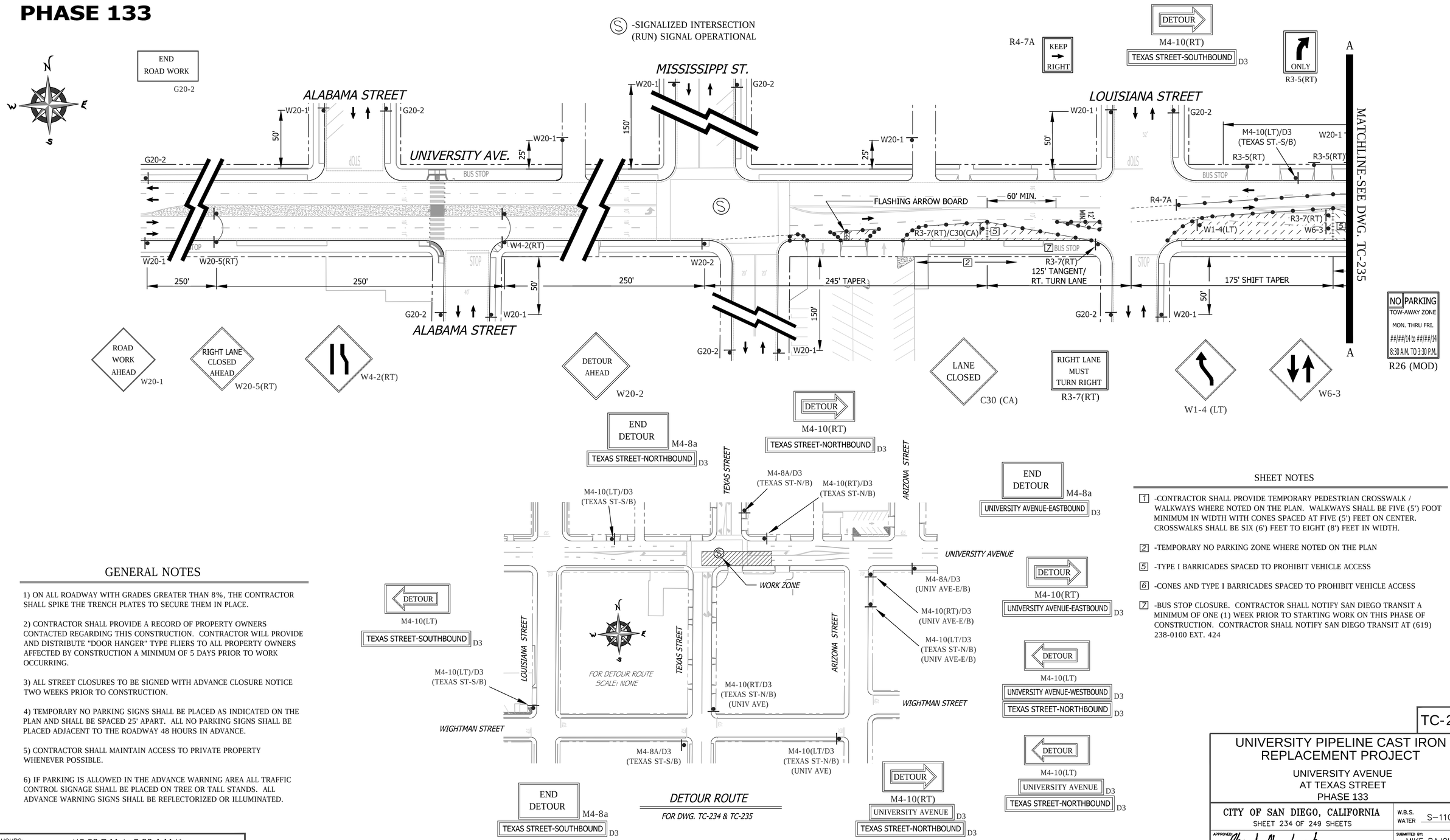
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T233-D

PHASE 133



DETOUR ROUTE

FOR DWG. TC-234 & TC-235

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALA./LOUIS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-234

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 133

CITY OF SAN DIEGO, CALIFORNIA
SHEET 234 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

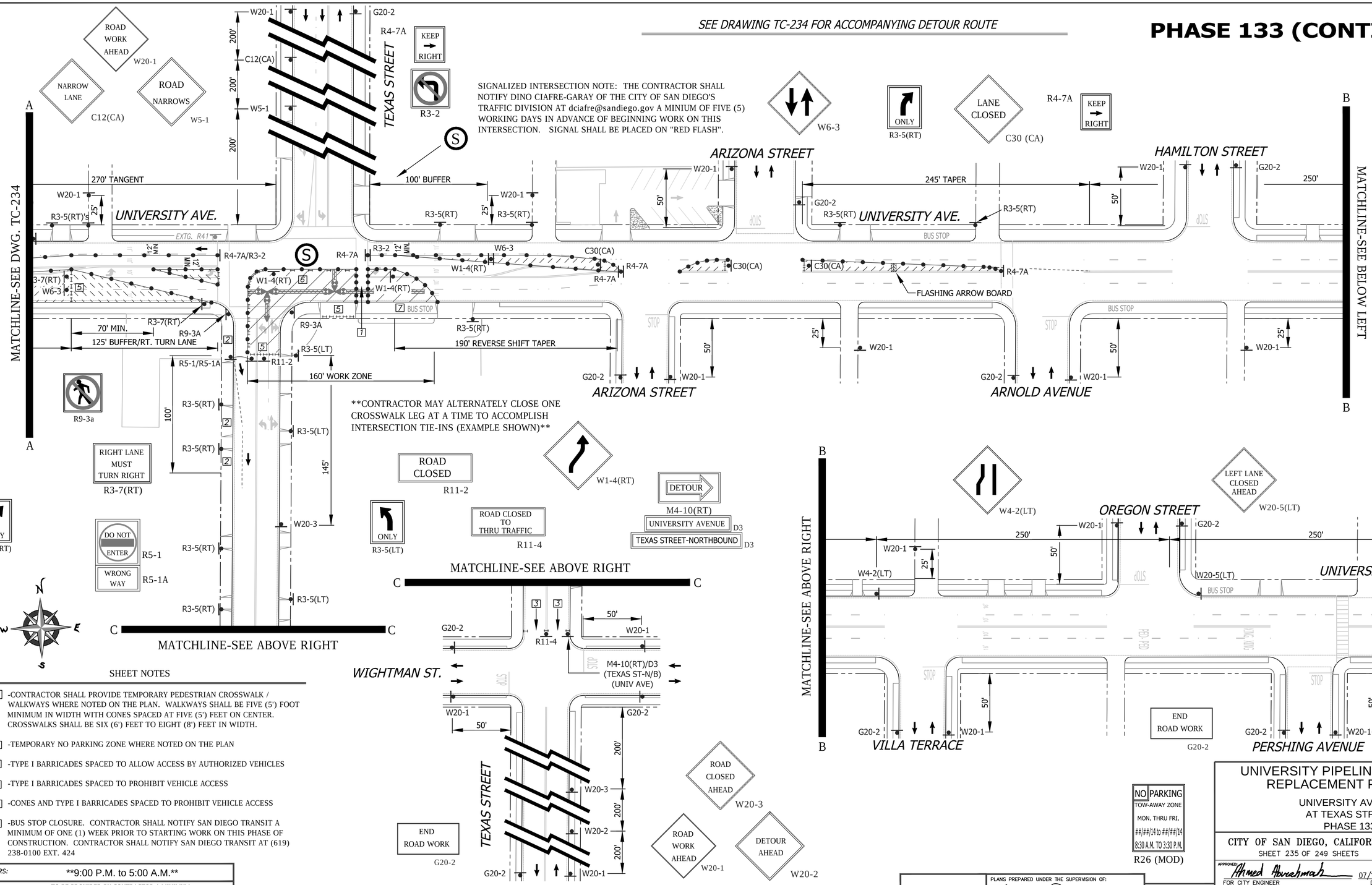
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

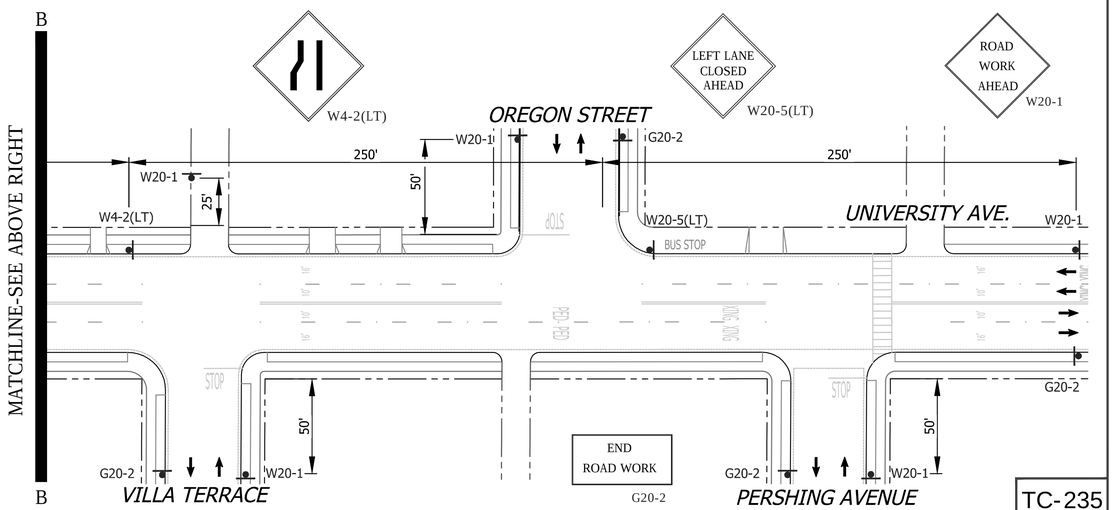
36656-T234-D

PHASE 133 (CONTINUED)

SEE DRAWING TC-234 FOR ACCOMPANYING DETOUR ROUTE

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS INTERSECTION. SIGNAL SHALL BE PLACED ON "RED FLASH".





SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

3 -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 133

CITY OF SAN DIEGO, CALIFORNIA
SHEET 235 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

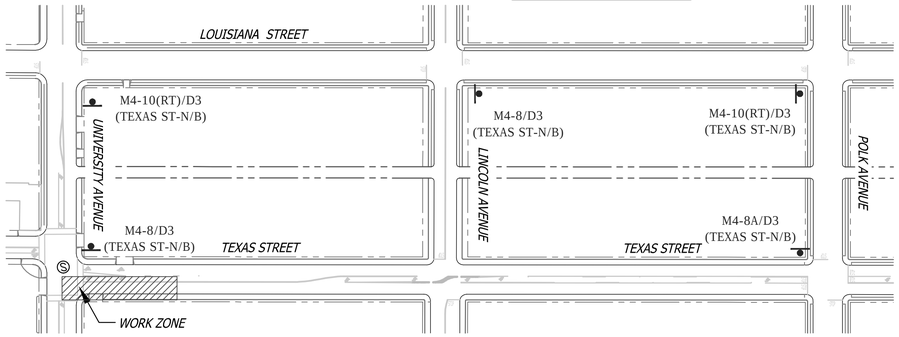
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-235

36656-T235-D

PHASE 134



FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-236 & TC-237

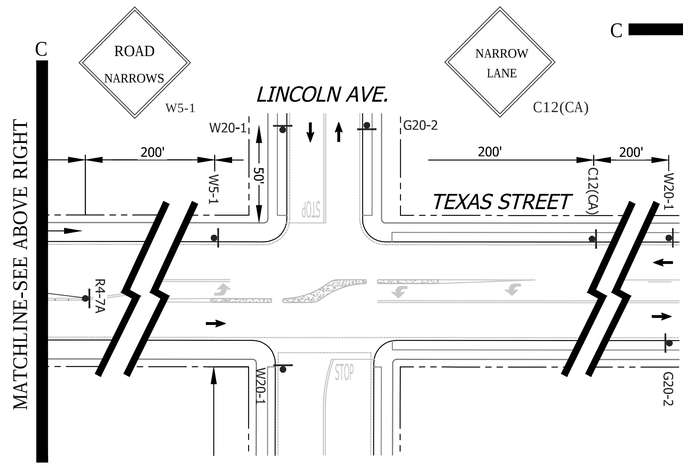
Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

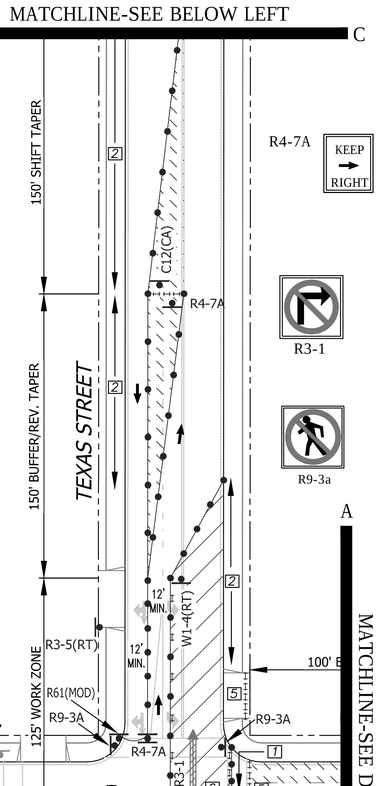
DETOUR M4-8
TEXAS STREET-NORTHBOUND D3

DETOUR M4-10(RT)
TEXAS STREET-NORTHBOUND D3

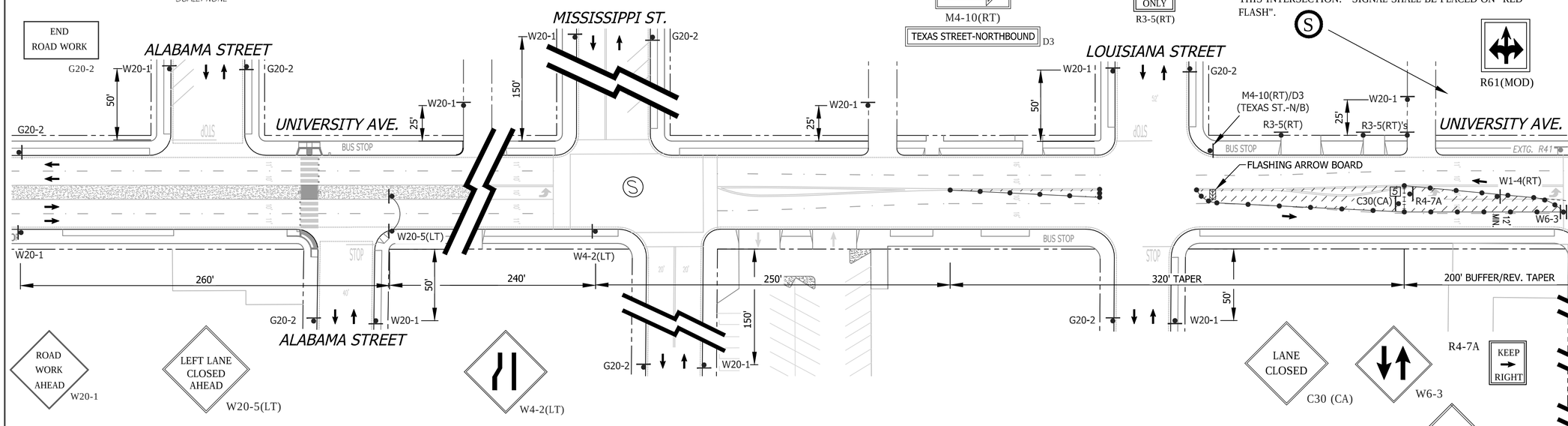
FOR MATCHLINE "C"
SCALE: 1" = 40'

END DETOUR M4-8a
TEXAS STREET-NORTHBOUND D3





SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS INTERSECTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	SEE DWG.		200 FT.	25 FT
ALA./LOUIS./MISS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600D-1A | DATE 06/20/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-236

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 134

CITY OF SAN DIEGO, CALIFORNIA
SHEET 236 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

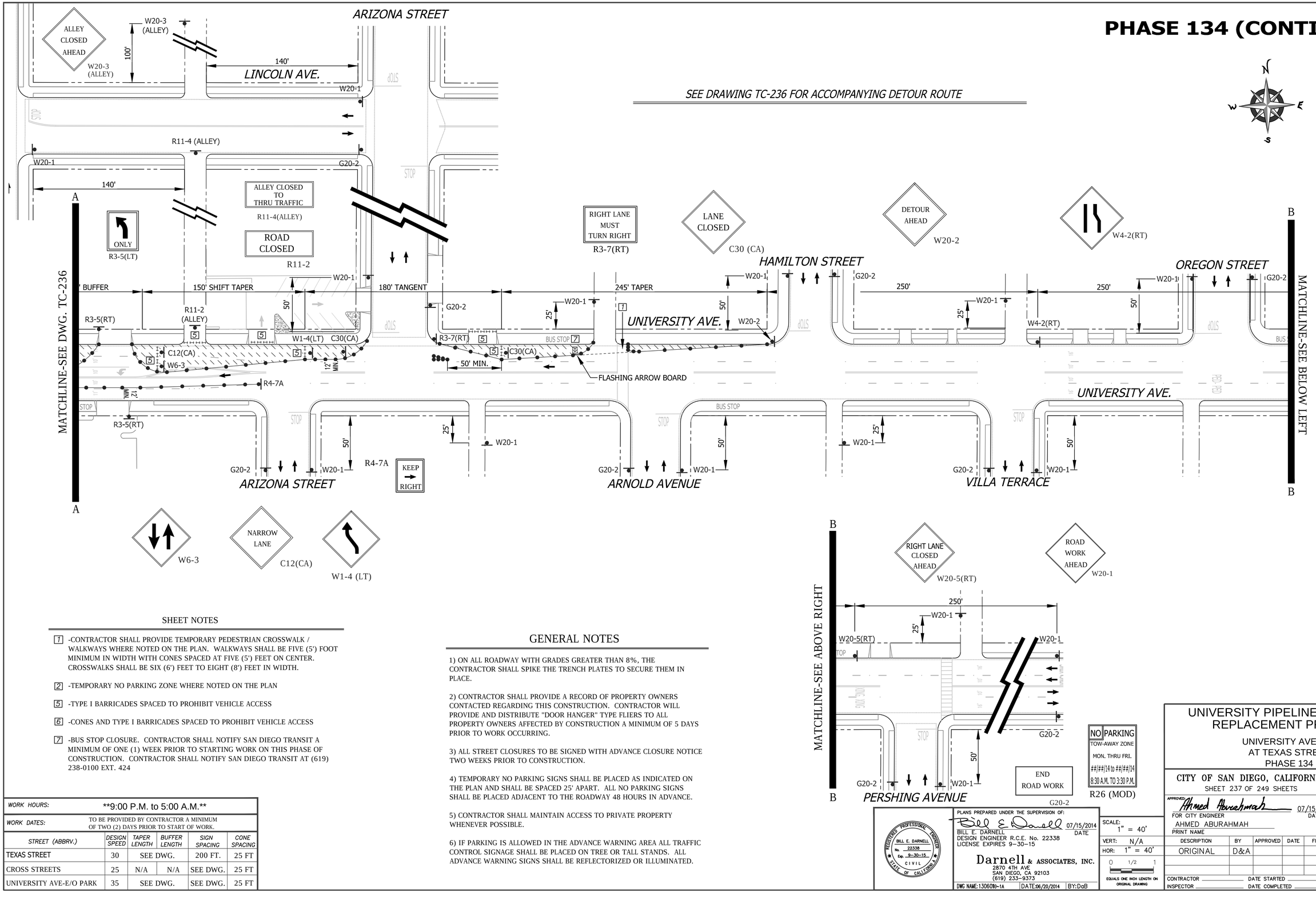
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-62804
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T236-D

PHASE 134 (CONTINUED)



SEE DRAWING TC-236 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	SEE DWG.		200 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE:06/20/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-237

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT TEXAS STREET
PHASE 134

CITY OF SAN DIEGO, CALIFORNIA
SHEET 237 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014 DATE
FOR CITY ENGINEER
AHMED ABURAHMAH
PRINT NAME

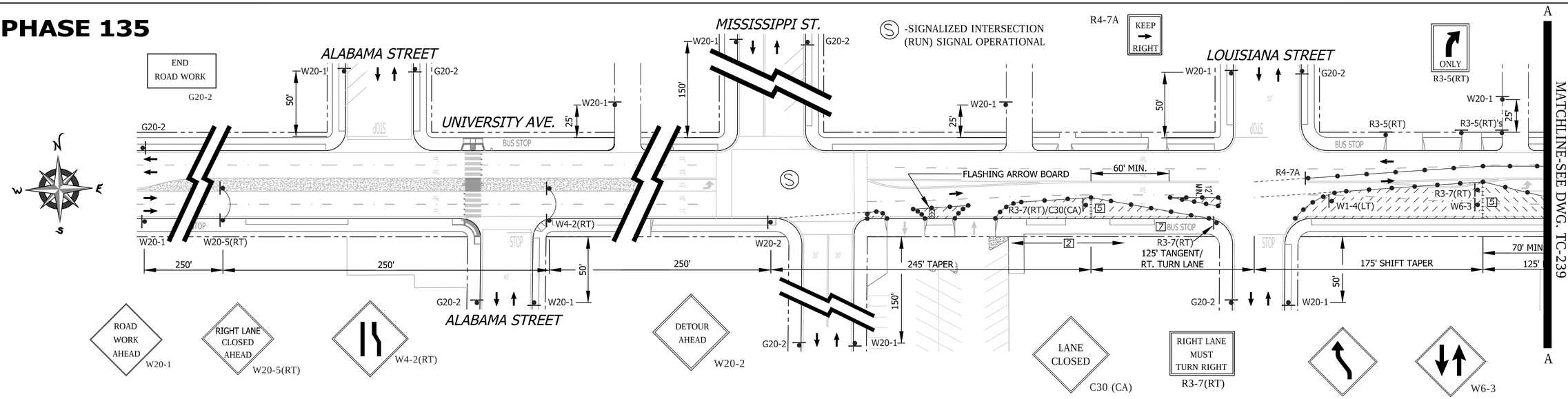
SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

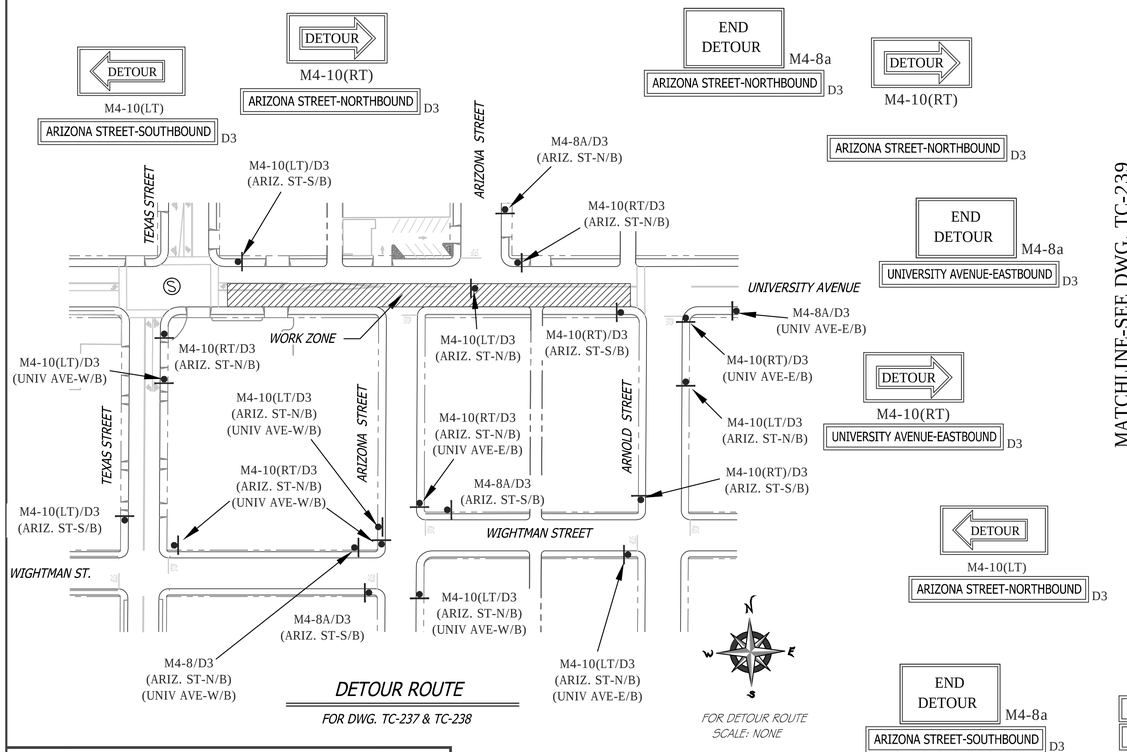
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-62804
CCS83 COORDINATE
36656-T237-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PHASE 135

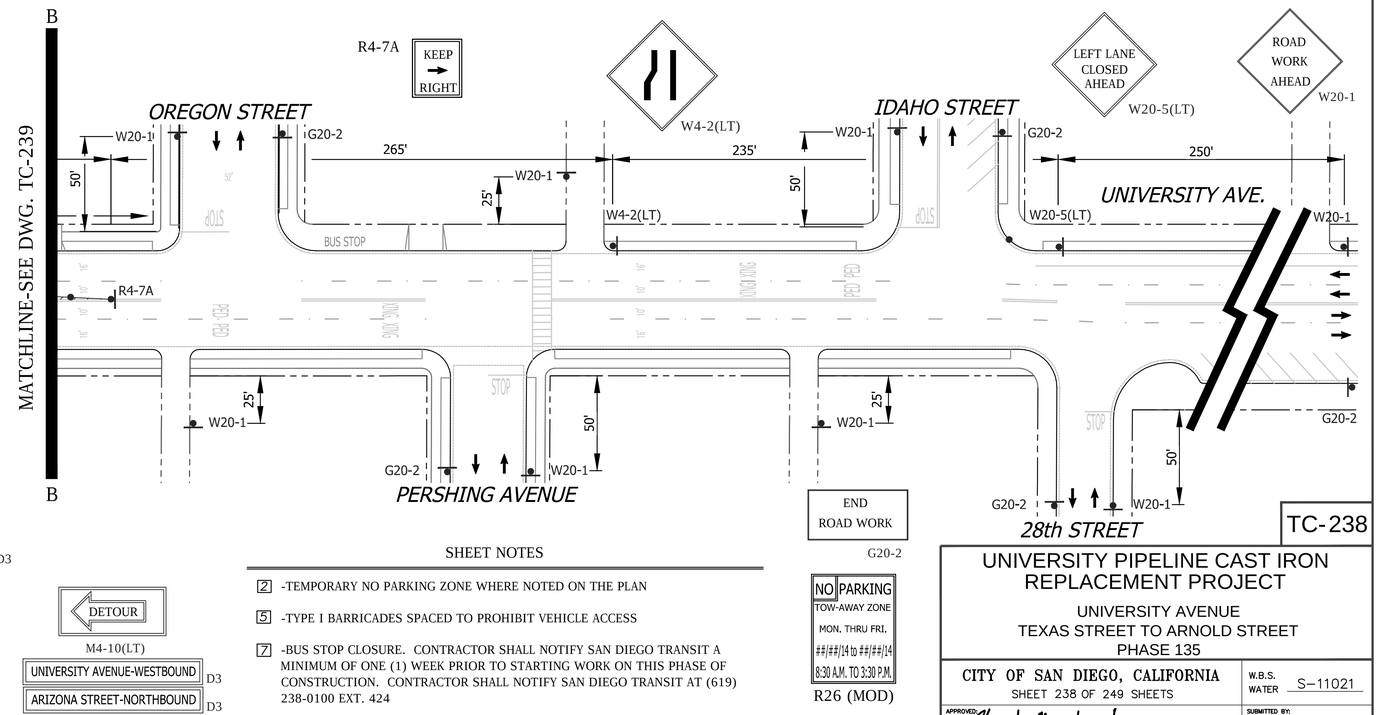




DETOUR ROUTE

FOR DWG. TC-237 & TC-238

FOR DETOUR ROUTE SCALE: NONE



SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
MISSISSIPPI STREET	25	N/A	N/A	150 FT.	25 FT
ALA./LOUIS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

Bill E. Darnell 07/15/2014

BILL E. DARNELL DATE

DESIGN ENGINEER R.C.E. No. 22338

LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600b-1A | DATE:06/21/2014 | BY:DoB

SCALE: 1" = 40'

VERT: N/A

HOR: 1" = 40'

0 1/2 1

EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TEXAS STREET TO ARNOLD STREET
PHASE 135

CITY OF SAN DIEGO, CALIFORNIA
SHEET 238 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

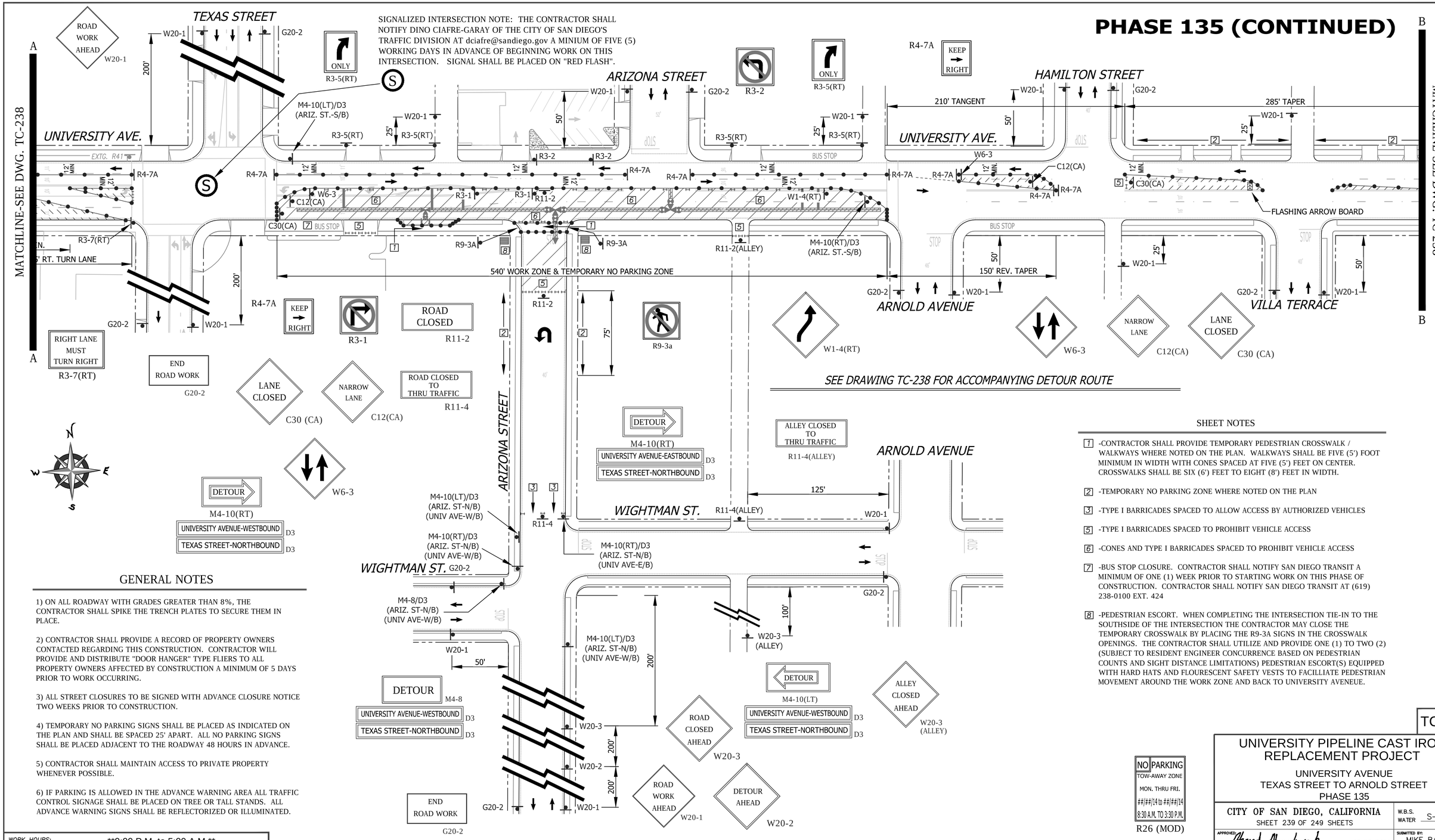
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TC-238

36656-T238-D

PHASE 135 (CONTINUED)

SIGNALIZED INTERSECTION NOTE: THE CONTRACTOR SHALL NOTIFY DINO CIAFRE-GARAY OF THE CITY OF SAN DIEGO'S TRAFFIC DIVISION AT dciafre@sandiego.gov A MINIUM OF FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK ON THIS INTERSECTION. SIGNAL SHALL BE PLACED ON "RED FLASH".



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ARIZONA / HAMILTON	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

SEE DRAWING TC-238 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

[7] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

[8] -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE SOUTHSIDE OF THE INTERSECTION THE CONTRACTOR MAY CLOSE THE TEMPORARY CROSSWALK BY PLACING THE R9-3A SIGNS IN THE CROSSWALK OPENINGS. THE CONTRACTOR SHALL UTILIZE AND PROVIDE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-239

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
TEXAS STREET TO ARNOLD STREET
PHASE 135

CITY OF SAN DIEGO, CALIFORNIA
SHEET 239 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725 CCS27 COORDINATE
1850444-628047 CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T239-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

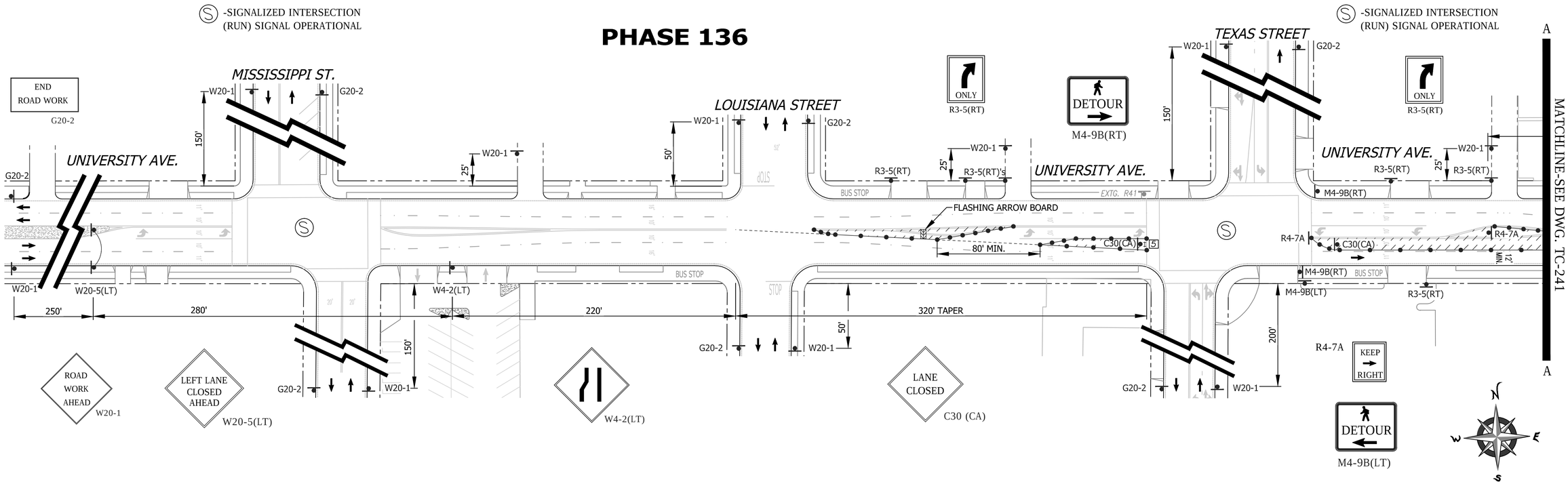
PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

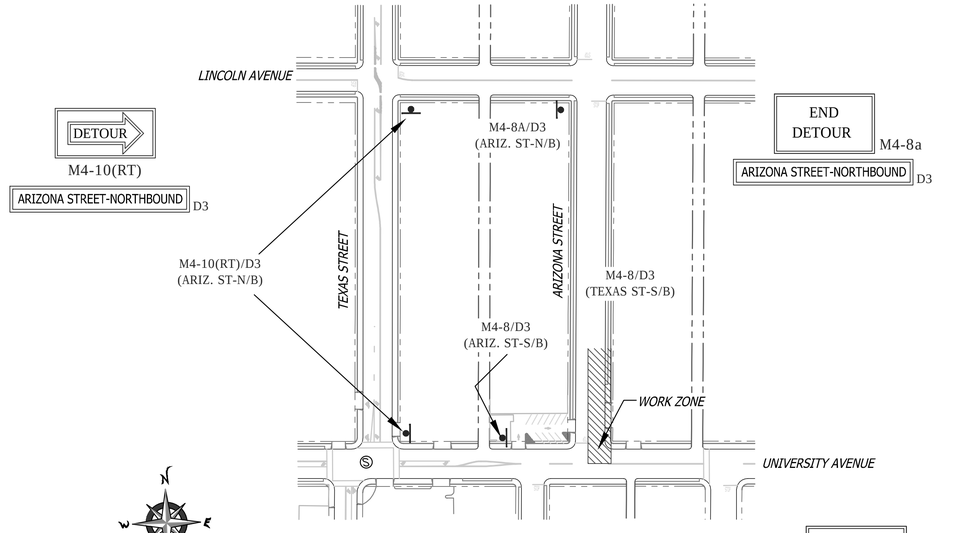
Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 136





FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-240 & TC-241

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
ALA./LOUIS./MISS. STREET	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

TC-240

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ARIZONA STREET
PHASE 136

CITY OF SAN DIEGO, CALIFORNIA
SHEET 240 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T240-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 1306016-1A | DATE: 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 136 (CONTINUED)

SEE DRAWING TC-240 FOR ACCOMPANYING DETOUR ROUTE

SHEET NOTES

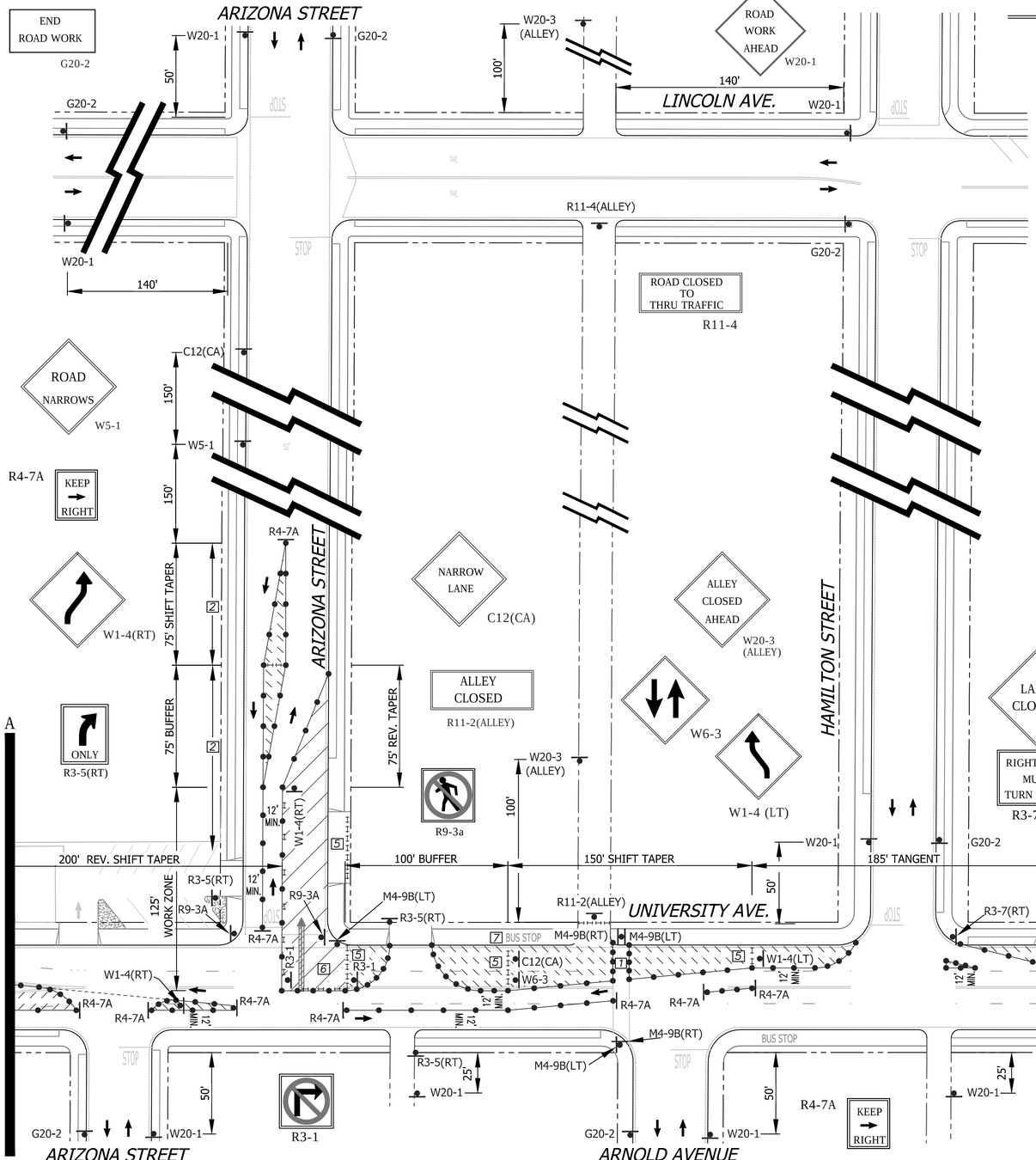
1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

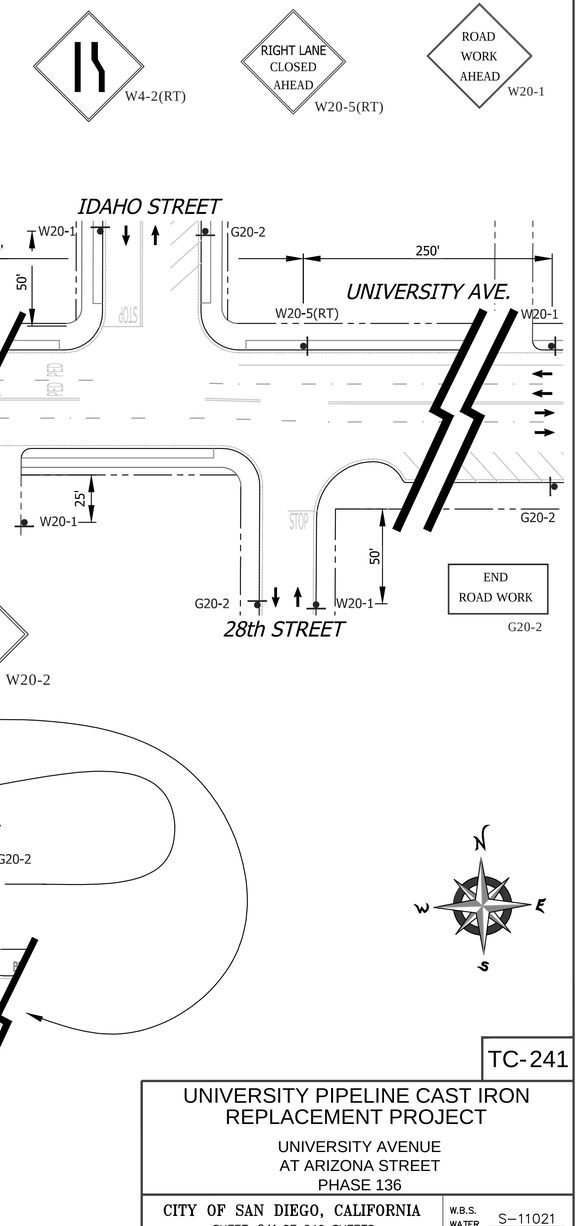
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424





WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARIZONA STREET	25	SEE DWG.		150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

DETOUR
M4-9B(LT)

DETOUR
M4-9B(RT)

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130609-1A | DATE 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-241

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT ARIZONA STREET
PHASE 136

CITY OF SAN DIEGO, CALIFORNIA
SHEET 241 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

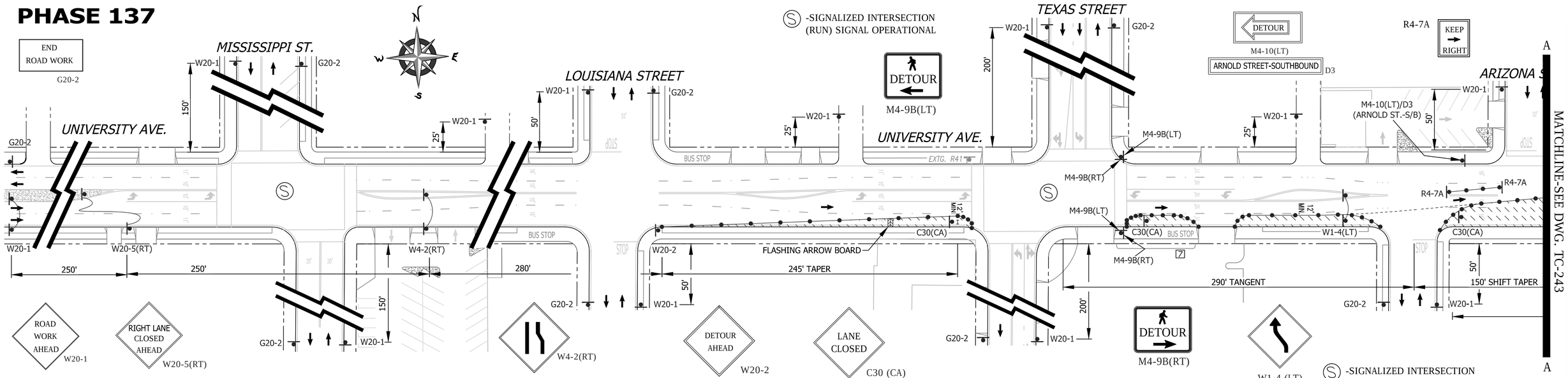
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

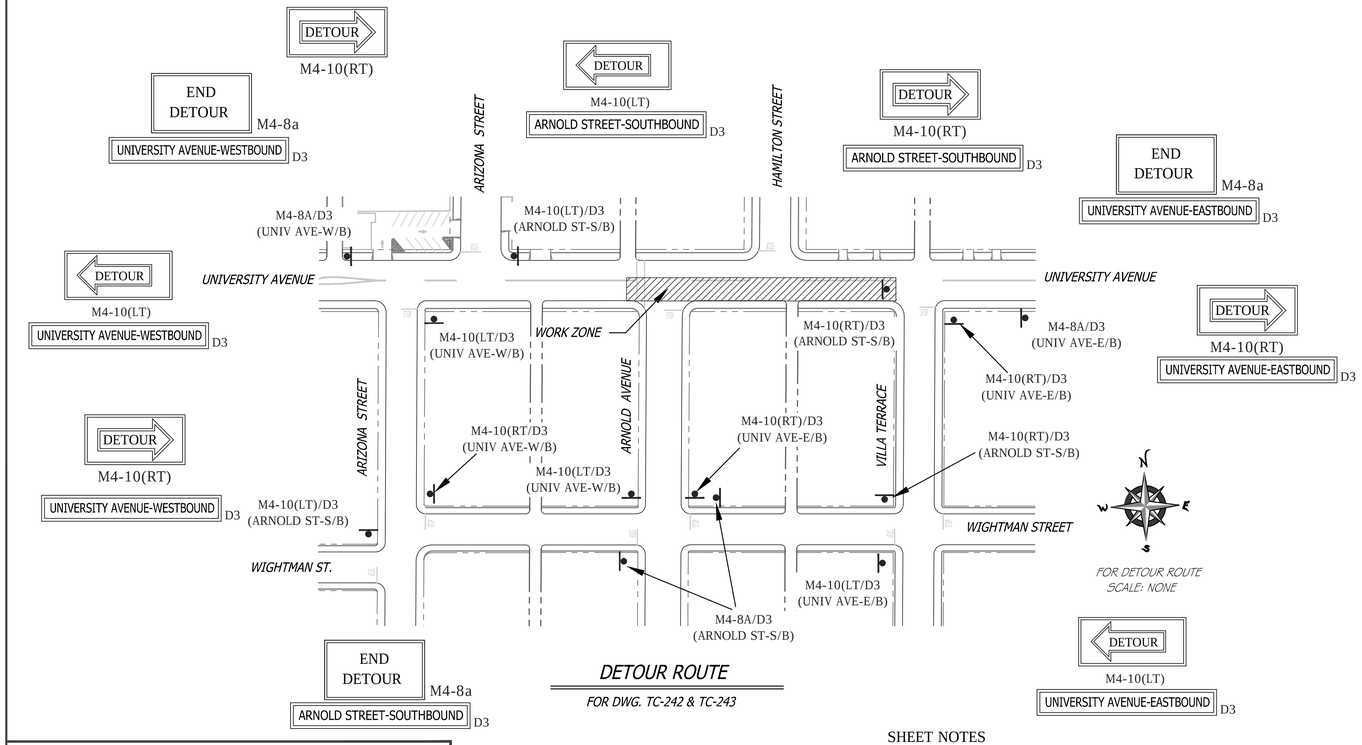
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

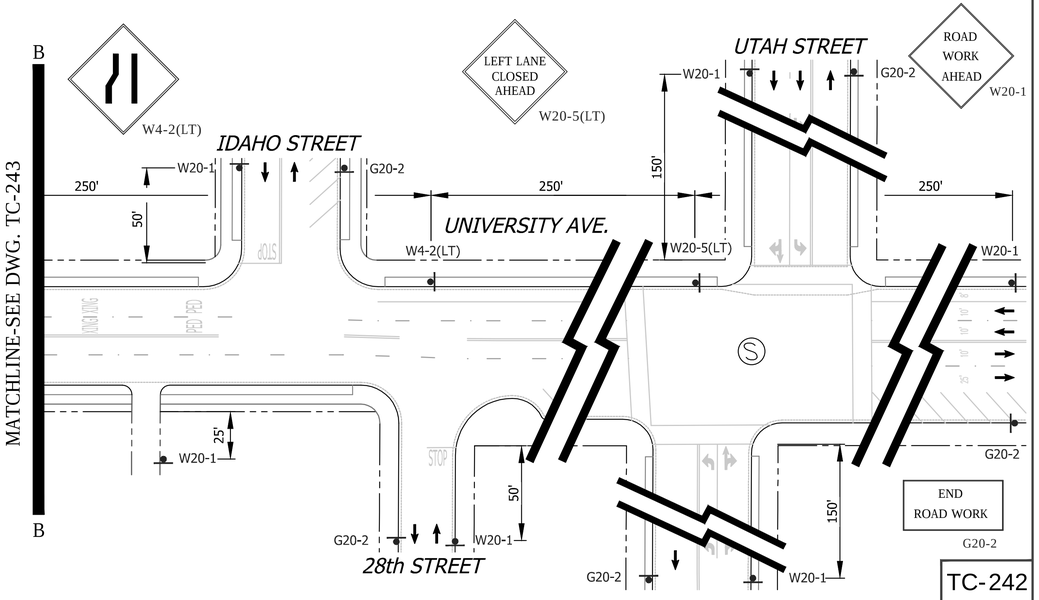
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T241-D

PHASE 137







WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
MISS. / UTAH STREET	25	N/A	N/A	150 FT.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

SHEET NOTES

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130600-1A | DATE 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-242

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ARNOLD AVENUE TO VILLA TERRACE
PHASE 137

CITY OF SAN DIEGO, CALIFORNIA
SHEET 242 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

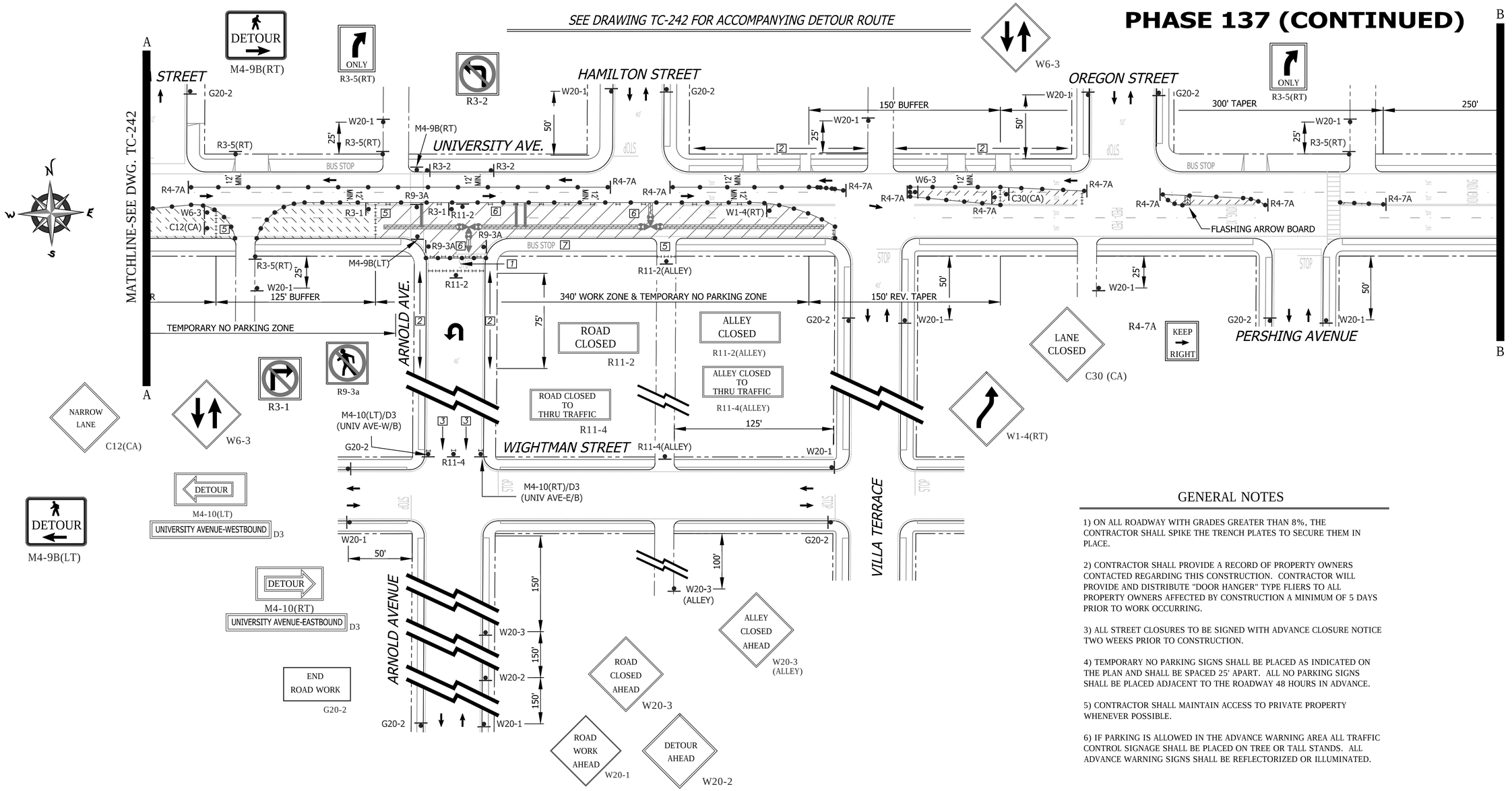
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T242-D

PHASE 137 (CONTINUED)



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[3] -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[7] -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARNOLD AVENUE	25	N/A	N/A	SEE DWG.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15
DATE

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600D-1A | DATE 06/21/2014 | BY: DaB

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-243

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
ARNOLD AVENUE TO VILLA TERRACE
PHASE 137

CITY OF SAN DIEGO, CALIFORNIA
SHEET 243 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

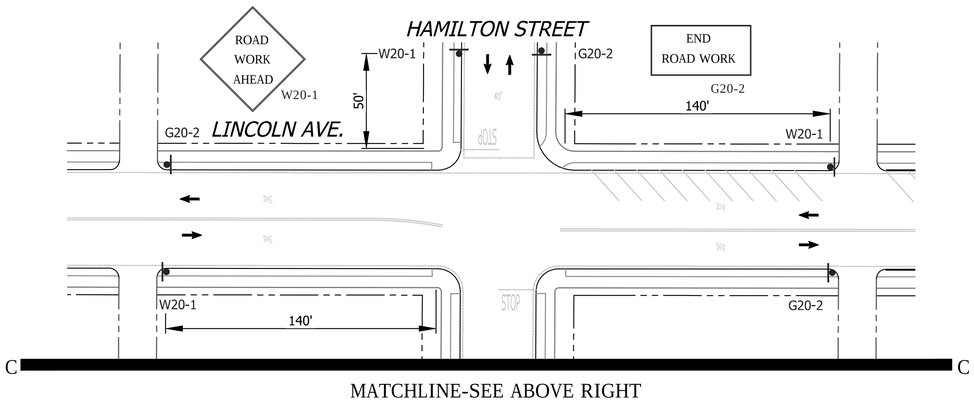
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T243-D

PHASE 138

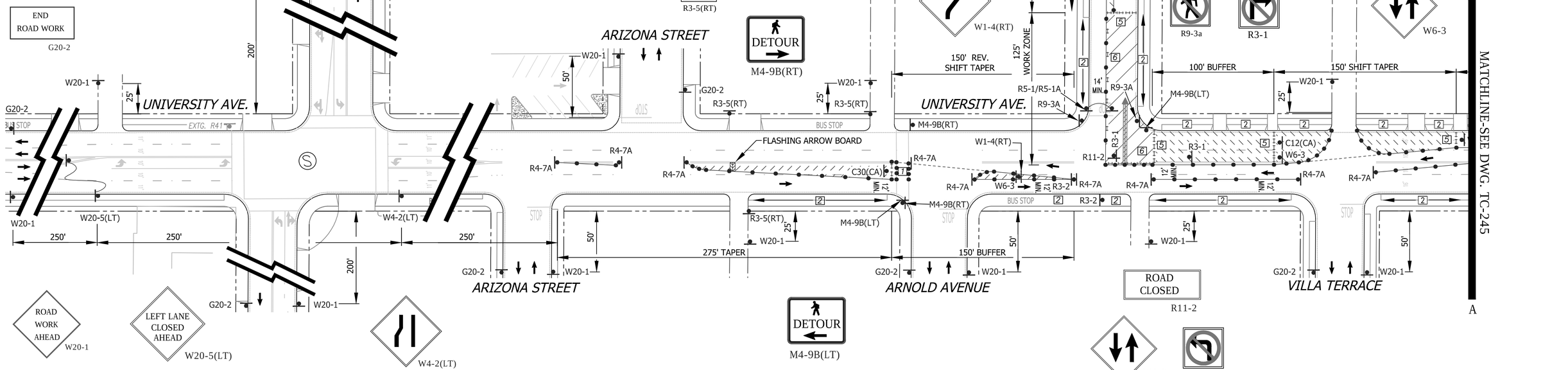


MATCHLINE-SEE ABOVE RIGHT

MATCHLINE-SEE BELOW LEFT

SEE DRAWING TC-245 FOR ACCOMPANYING DETOUR ROUTE

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL



SHEET NOTES

[1] -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

[2] -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

[5] -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

[6] -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
HAMILTON STREET	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE.
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060tb-1A | DATE: 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-244

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT HAMILTON STREET
PHASE 138

CITY OF SAN DIEGO, CALIFORNIA
SHEET 244 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

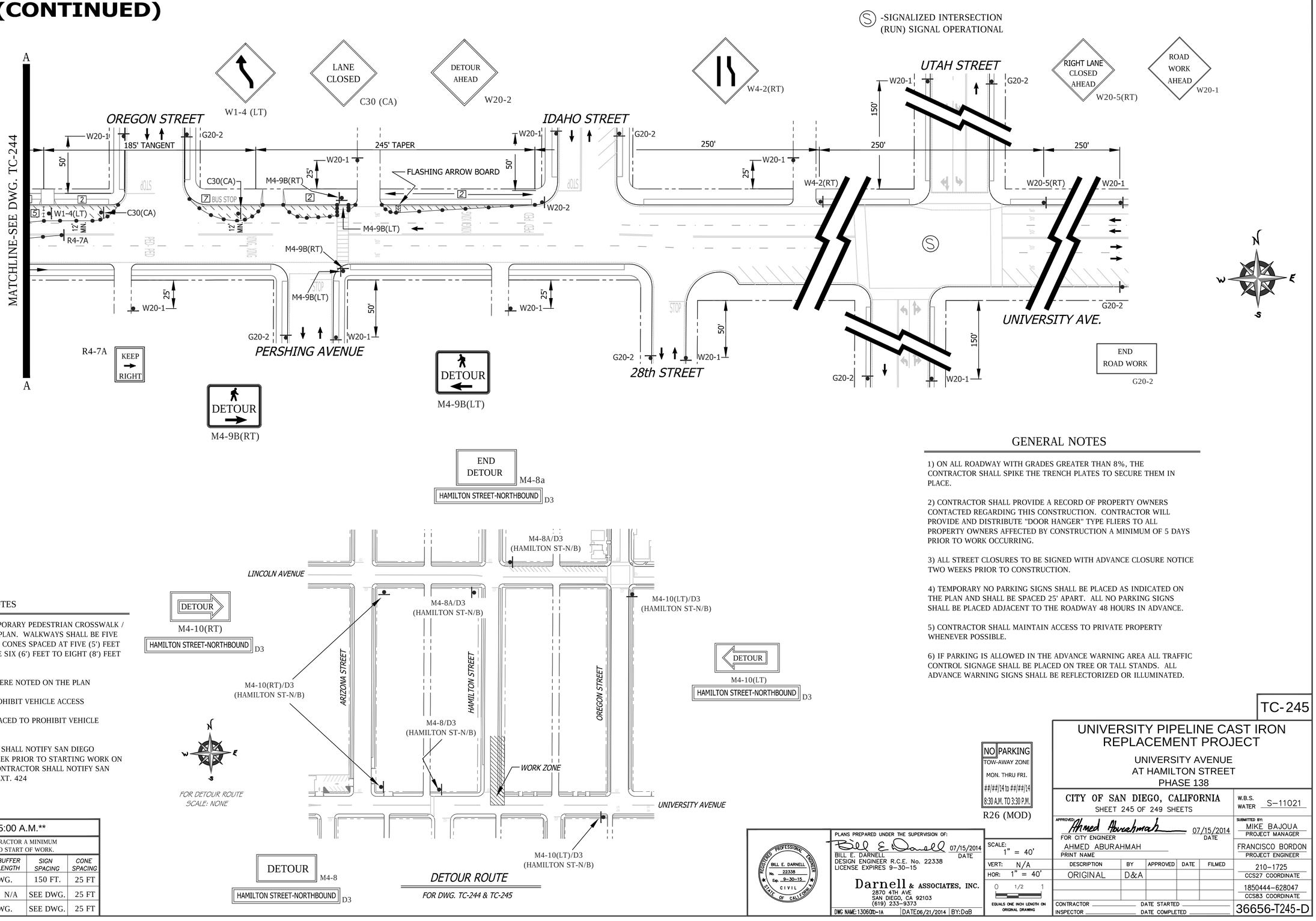
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T244-D

PHASE 138 (CONTINUED)



SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARIZONA STREET	25	SEE DWG.		150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-244 & TC-245

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

TC-245

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT HAMILTON STREET
PHASE 138

CITY OF SAN DIEGO, CALIFORNIA
SHEET 245 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T245-D

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

PHASE 139

TEXAS STREET

Ⓢ -SIGNALIZED INTERSECTION (RUN) SIGNAL OPERATIONAL

END ROAD WORK G20-2

W20-1, G20-2, 200'

ARIZONA STREET

W20-1, G20-2, 50'

UNIVERSITY AVE.

G20-2, W20-1, W20-5(RT), 250', 285', W4-2(RT), 215', 200', G20-2, W20-1

ARIZONA STREET

DETOUR M4-10(LT) VILLA TERRACE-SOUTHBOUND D3

W6-3

NARROW LANE C12(CA)

W20-1, 25', BUS STOP

UNIVERSITY AVE.

HAMILTON STREET

R4-7A KEEP → RIGHT

R3-5(RT) ONLY

R3-2

W1-4(RT)

R4-7A KEEP → RIGHT

OREGON STREET

W20-1, G20-2, 50', 25', R3-5(RT), R3-2, R3-2, 12" MIN., R4-7A, R4-7A, W1-4(RT), R9-9, R9-9, R11-2(ALLEY), BUS S

M4-10(LT)/D3 (VILLA TERR.-S/B)

FLASHING ARROW BOARD

60' MIN.

W20-2, C30(CA), R3-7(RT), W20-1, 245' TAPER, 125' TANGENT, G20-2, W20-1

ARIZONA STREET

R4-7A, W1-4(LT), BUS STOP, 150' SHIFT TAPER, G20-2, W20-1

ARNOLD AVENUE

W6-3, C12(CA), R3-1, R3-1, W20-1, 100' BUFFER, R9-3A, R9-3A, R11-2

MATCHLINE-SEE DWG. TC-247

365' WORK ZONE

ROAD WORK AHEAD W20-1

RIGHT LANE CLOSED AHEAD W20-5(RT)

W4-2(RT)

DETOUR AHEAD W20-2

LANE CLOSED C30 (CA)

RIGHT LANE MUST TURN RIGHT R3-7(RT)

W1-4 (LT)

CONTRACTOR MAY ALTERNATELY CLOSE CROSSWALK OR THE SIDEWALK (ONE AT A TIME) TO ACCOMPLISH INTERSECTION TIE-IN & SIDEWALK SERVICE LATERALS (EXAMPLE SHOWN)

ALLEY CLOSED R11-2(ALLEY)

SIDEWALK CLOSED R9-9

ALLEY CLOSED TO THRU TRAFFIC R11-4(ALLEY)

R3-1

R9-3a

M4-10(LT)/D3 (UNIV AVE-W/B)

G20-2, R11-4

WIGHTMAN STREET R11-4(ALLEY)

125', W20-1

M4-10(RT)/D3 (UNIV AVE-E/B)

ROAD CLOSED TO THRU TRAFFIC R11-4

DETOUR M4-10(LT) UNIVERSITY AVENUE-WESTBOUND D3

W20-1, 50', G20-2, 100'

W20-3 (ALLEY)

VILLA TERRACE

150', W20-3, 150', W20-2, 150', G20-2, W20-1

ROAD WORK AHEAD W20-1

ALLEY CLOSED AHEAD W20-3 (ALLEY)

ROAD CLOSED AHEAD W20-3

DETOUR AHEAD W20-2

END DETOUR M4-8a UNIVERSITY AVENUE-WESTBOUND D3

DETOUR M4-10(LT) VILLA TERRACE-SOUTHBOUND D3

HAMILTON STREET

M4-10(LT)/D3 (VILLA TERR.-S/B)

OREGON STREET

DETOUR M4-10(RT) VILLA TERRACE-SOUTHBOUND D3

END DETOUR M4-8a UNIVERSITY AVENUE-EASTBOUND D3

DETOUR M4-10(LT) UNIVERSITY AVENUE-WESTBOUND D3

ROAD CLOSED TO THRU TRAFFIC R11-4

DETOUR M4-10(RT) UNIVERSITY AVENUE-EASTBOUND D3

M4-8A/D3 (UNIV AVE-W/B)

UNIVERSITY AVENUE

UNIVERSITY AVENUE

DETOUR M4-10(LT) UNIVERSITY AVENUE-WESTBOUND D3

WORK ZONE

M4-10(LT/D3 (UNIV AVE-W/B)

M4-10(RT)/D3 (VILLA TERR.-S/B)

M4-8A/D3 (UNIV AVE-E/B)

M4-10(RT)/D3 (UNIV AVE-E/B)

ARNOLD AVENUE

VILLA TERRACE

PERSHING STREET

M4-10(RT/D3 (UNIV AVE-W/B)

M4-10(RT)/D3 (UNIV AVE-E/B)

M4-10(RT)/D3 (VILLA TERR.-S/B)

M4-10(LT)/D3 (VILLA TERR.-S/B)

M4-10(LT/D3 (UNIV AVE-W/B)

WIGHTMAN ST.

WIGHTMAN STREET

M4-10(LT/D3 (UNIV AVE-E/B)

M4-8A/D3 (VILLA TERR.-S/B)

DETOUR M4-10(RT) UNIVERSITY AVENUE-EASTBOUND D3

END DETOUR M4-8a VILLA TERRACE-SOUTHBOUND D3

DETOUR M4-10(LT) UNIVERSITY AVENUE-EASTBOUND D3

FOR DETOUR ROUTE SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-246 & TC-247

SHEET NOTES

1. -TEMPORARY PEDESTRIAN WALKWAY / CROSSWALK. CONTRACTOR SHALL PROVIDE A TEMPORARY CROSSWALK WHERE NOTED ON THE PLAN. CROSSWALK SHALL BE SIX (6') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER.
2. -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN
3. -TYPE I BARRICADES SPACED TO ALLOW ACCESS BY AUTHORIZED VEHICLES
5. -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
6. -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS
7. -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424
8. -PEDESTRIAN ESCORT. WHEN COMPLETING THE INTERSECTION TIE-IN TO THE SOUTHSIDE OF THE INTERSECTION OR THE SERVICE LATERALS THRU THE SIDEWALK ON THE SOUTHSIDE OF THE STREET, THE CONTRACTOR MAY CLOSE THE TEMPORARY CROSSWALK BY PLACING THE R9-3A SIGNS IN THE CROSSWALK OPENINGS. THE CONTRACTOR SHALL UTILIZE AND PROVIDE ONE (1) TO TWO (2) (SUBJECT TO RESIDENT ENGINEER CONCURRENCE BASED ON PEDESTRIAN COUNTS AND SIGHT DISTANCE LIMITATIONS) PEDESTRIAN ESCORT(S) EQUIPPED WITH HARD HATS AND FLOURESCENT SAFETY VESTS TO FACILLIATE PEDESTRIAN MOVEMENT AROUND THE WORK ZONE AND BACK TO UNIVERSITY AVENEUE.

NO PARKING TOW-AWAY ZONE MON. THRU FRI. ##/##/14 to ##/##/14 8:30 A.M. TO 3:30 P.M.

R26 (MOD)

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
TEXAS STREET	30	N/A	N/A	200 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

REGISTERED PROFESSIONAL ENGINEER BILL E. DARNELL No. 22338 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

BILL E. DARNELL 07/15/2014 DATE

BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME:130601-1A | DATE:06/21/2014 | BY:DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-246

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
VILLA TERRACE TO OREGON STREET
PHASE 139

CITY OF SAN DIEGO, CALIFORNIA
SHEET 246 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

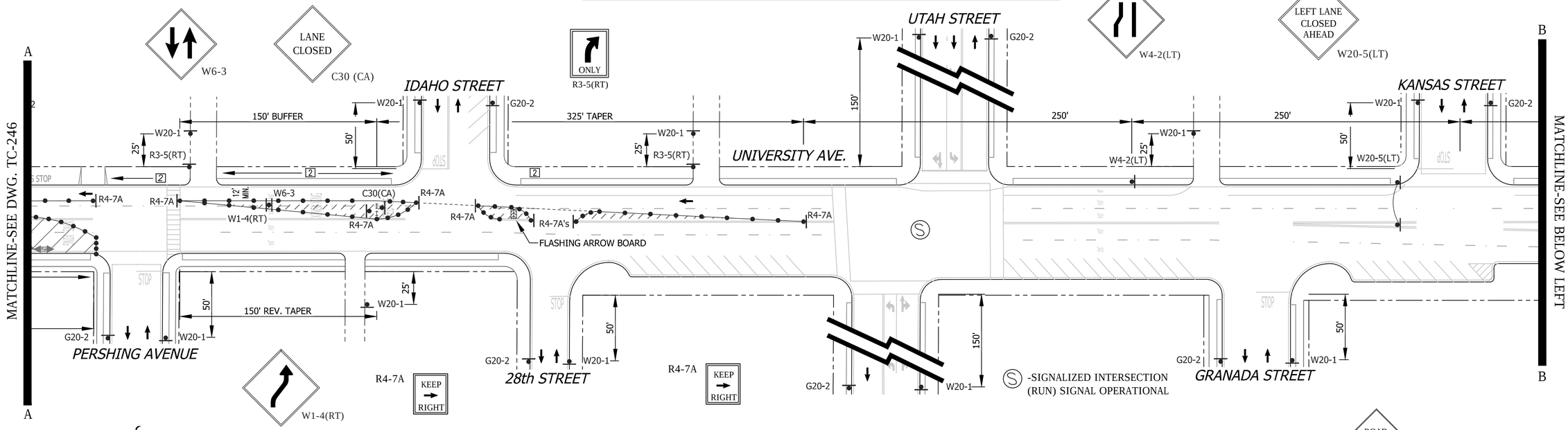
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

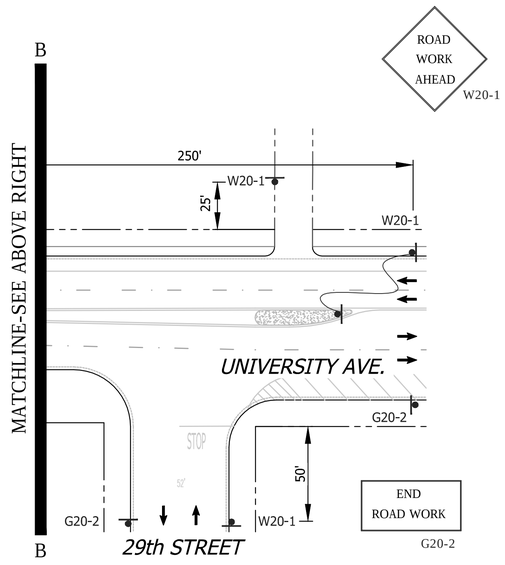
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T246-D

PHASE 139 (CONTINUED)

SEE DRAWING TC-246 FOR ACCOMPANYING DETOUR ROUTE





SHEET NOTES

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.

STREET (ABBRV.)	*DESIGN SPEED*	*TAPER LENGTH*	*BUFFER LENGTH*	*SIGN SPACING*	*CONE SPACING*
UTAH STREET	25	N/A	N/A	150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

NO	PARKING
TOW-AWAY ZONE	
MON. THRU FRI.	
##/##/14 to ##/##/14	
8:30 A.M. TO 3:30 P.M.	

R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER — BILL E. DARNELL — No. 22338 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Bill E. Darnell 07/15/2014
BILL E. DARNELL DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 13060D-1A | DATE 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-247

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
VILLA TERRACE TO OREGON STREET
PHASE 139

CITY OF SAN DIEGO, CALIFORNIA
SHEET 247 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

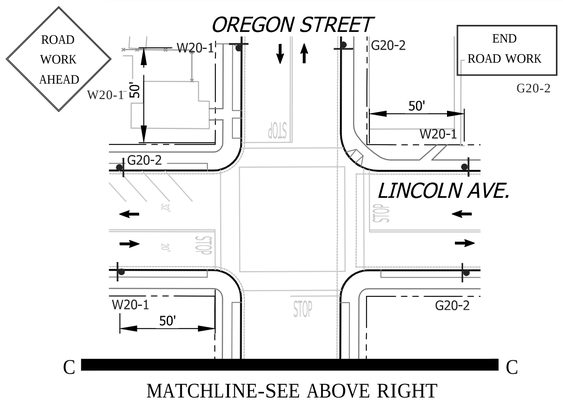
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T247-D

PHASE 140



SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

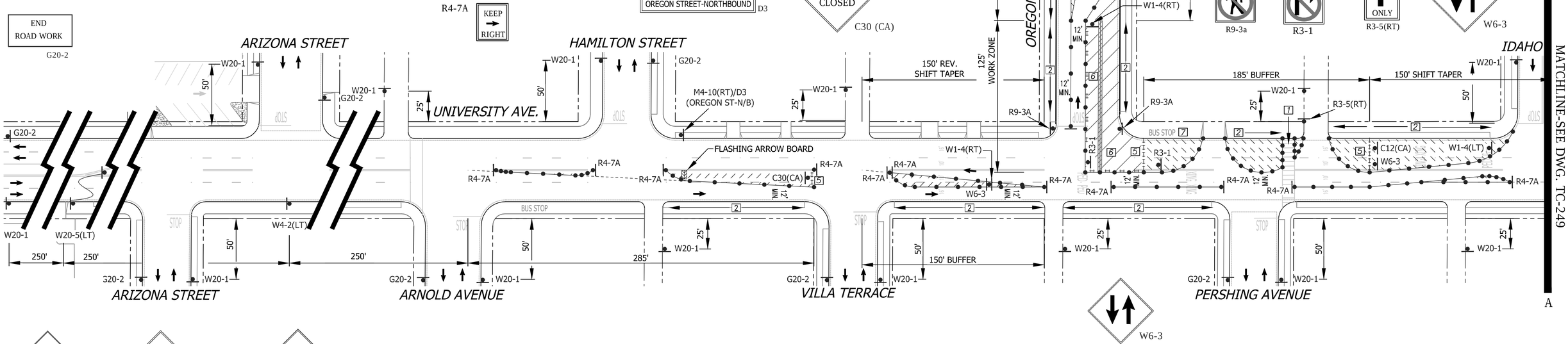
2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

7 -BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT A MINIMUM OF ONE (1) WEEK PRIOR TO STARTING WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY SAN DIEGO TRANSIT AT (619) 238-0100 EXT. 424

SEE DRAWING TC-249 FOR ACCOMPANYING DETOUR ROUTE



GENERAL NOTES

1) ON ALL ROADWAY WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.

2) CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLIERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURRING.

3) ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.

4) TEMPORARY NO PARKING SIGNS SHALL BE PLACED AS INDICATED ON THE PLAN AND SHALL BE SPACED 25' APART. ALL NO PARKING SIGNS SHALL BE PLACED ADJACENT TO THE ROADWAY 48 HOURS IN ADVANCE.

5) CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY WHENEVER POSSIBLE.

6) IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA ALL TRAFFIC CONTROL SIGNAGE SHALL BE PLACED ON TREE OR TALL STANDS. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED OR ILLUMINATED.

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
ARIZONA/HAMILTON ST.	25	N/A	N/A	SEE DWG.	25 FT
OREGON/PERSHING ST.	25	SEE DWG.		SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		250 FT.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
BILL E. DARNELL
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130608-1A | DATE: 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-248

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT OREGON STREET
PHASE 140

CITY OF SAN DIEGO, CALIFORNIA
SHEET 248 OF 249 SHEETS

W.B.S.
WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

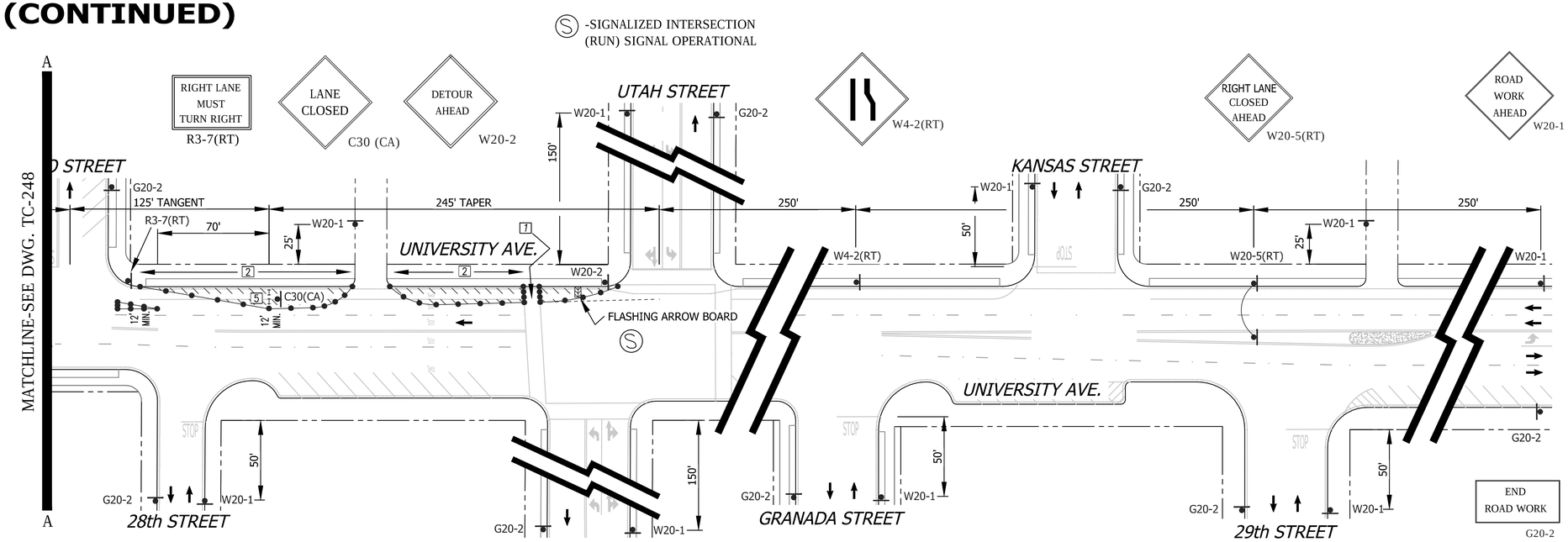
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

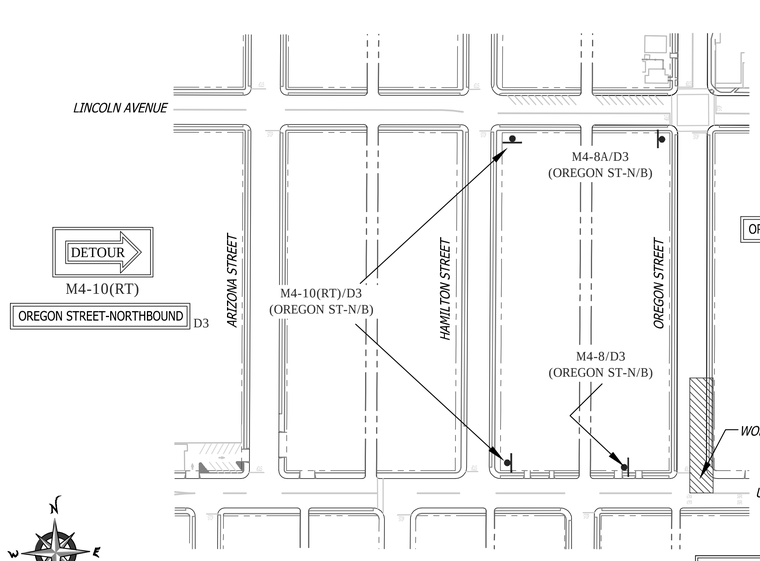
210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T248-D

PHASE 140 (CONTINUED)





FOR DETOUR ROUTE
SCALE: NONE

DETOUR ROUTE

FOR DWG. TC-248 & TC-249

SHEET NOTES

1 -CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN CROSSWALK / WALKWAYS WHERE NOTED ON THE PLAN. WALKWAYS SHALL BE FIVE (5') FOOT MINIMUM IN WIDTH WITH CONES SPACED AT FIVE (5') FEET ON CENTER. CROSSWALKS SHALL BE SIX (6') FEET TO EIGHT (8') FEET IN WIDTH.

2 -TEMPORARY NO PARKING ZONE WHERE NOTED ON THE PLAN

5 -TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

6 -CONES AND TYPE I BARRICADES SPACED TO PROHIBIT VEHICLE ACCESS

WORK HOURS:	**9:00 P.M. to 5:00 A.M.**				
WORK DATES:	TO BE PROVIDED BY CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO START OF WORK.				
STREET (ABBRV.)	DESIGN SPEED	TAPER LENGTH	BUFFER LENGTH	SIGN SPACING	CONE SPACING
UTAH STREET	25	N/A	N/A	150 FT.	25 FT
CROSS STREETS	25	N/A	N/A	SEE DWG.	25 FT
UNIVERSITY AVE-E/O PARK	35	SEE DWG.		SEE DWG.	25 FT

NO PARKING
TOW-AWAY ZONE
MON. THRU FRI.
##/##/14 to ##/##/14
8:30 A.M. TO 3:30 P.M.
R26 (MOD)

REGISTERED PROFESSIONAL ENGINEER
BILL E. DARNELL
No. 22338
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
BILL E. DARNELL 07/15/2014 DATE
DESIGN ENGINEER R.C.E. No. 22338
LICENSE EXPIRES 9-30-15

Darnell & ASSOCIATES, INC.
2870 4TH AVE
SAN DIEGO, CA 92103
(619) 233-9373

DWG NAME: 130600-1A | DATE 06/21/2014 | BY: DaB

SCALE: 1" = 40'
VERT: N/A
HOR: 1" = 40'
0 1/2 1
EQUALS ONE INCH LENGTH ON ORIGINAL DRAWING

TC-249

UNIVERSITY PIPELINE CAST IRON REPLACEMENT PROJECT

UNIVERSITY AVENUE
AT OREGON STREET
PHASE 140

CITY OF SAN DIEGO, CALIFORNIA
SHEET 249 OF 249 SHEETS

W.B.S. WATER S-11021

APPROVED: Ahmed Aburahmah 07/15/2014
FOR CITY ENGINEER DATE
AHMED ABURAHMAH
PRINT NAME

SUBMITTED BY:
MIKE BAJOUA
PROJECT MANAGER
FRANCISCO BORDON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	D&A			

210-1725
CCS27 COORDINATE
1850444-628047
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36656-T249-D