

City

Mr. Austin Cameron, Secretary
TC Construction Company, Inc.
10540 Prospect Avenue

0

CONTRACTOR'S NAME: _____
ADDRESS: _____ P: (619) 448-4560 F: (619) 448-3341 _____
TELEPHONE NO.: _____
CITY CONTACT: Damian Singleton, Contract Specialist, E-mail: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633
LNasrawi/AR/LJI

**CONTRACT
DOCUMENTS**

COPY



FOR

WATER GROUP JOB 959

VOLUME 1 OF 2

BID NO.:	K-14-5761-DBB-3
SAP NO. (WBS/IO/CC):	B-11138
CLIENT DEPARTMENT:	2013
COUNCIL DISTRICT:	3 / 8
PROJECT TYPE:	KB

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

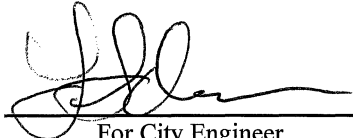
- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.

BID DUE DATE:


**2:00 PM
AUGUST 29, 2013
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, SUITE 1400, 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 Engineer:



For City Engineer



Date

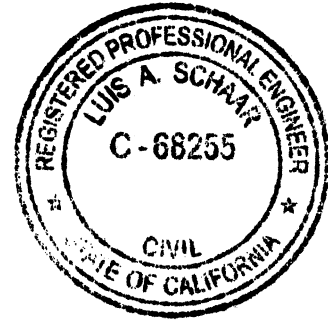


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CITY OF SAN DIEGO, CALIFORNIA

NOTICE INVITING BIDS

1. **RECEIPT AND OPENING OF BIDS:** Bids will be received at the Public Works Contracting Group at the location, time, and date shown on the cover of these specifications for performing work on **WATER GROUP JOB 959** (Project).

2. **DESCRIPTION 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 below:

Construction consists of the installation of 5,498 linear feet of 16” water main services, fire hydrant, curb ramps, resurfacing, traffic control and other appurtenances shown on the plans and specifications.

2.1. The Work shall be performed in accordance with:

2.1.1. This Notice Inviting Bids and Plans numbered **36555-01-D** through **36555-24-D** and **36555-1-T** through **36555-07-T**, inclusive.

3. **EQUAL OPPORTUNITY**

3.1. To The WHITEBOOK, Chapter 10, Sections D and E, DELETE in their 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.

4. SUBCONTRACTING PARTICIPATION PERCENTAGES.

4.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

- | | |
|----------------------------------|--------------|
| 1. SLBE participation | 7.2% |
| 2. ELBE participation | 15.1% |
| 3. Total mandatory participation | 22.3% |

4.2. The Bidders are **required** to attend the Pre-Bid Meeting to better understand the Good Faith Effort requirements of this contract. See the City's document titled "SLBE Program, Instructions For Bidders Completing The Good Faith Effort Submittal" available at: <http://www.sandiego.gov/eoc/>

4.3. The Bid will be declared non-responsive if the Bidder fails the following mandatory conditions:

- 4.3.1.** Attending the Pre-Bid Meeting.
- 4.3.2.** Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR.
- 4.3.3.** Bidder's submission of Good Faith Effort documentation demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Day of the Bid opening if the overall mandatory participation percentage is not met.

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 Contracting Group, Conference Room at 1010 Second Avenue, Suite 1400, San Diego, CA 92101 **at 10:00 A.M., on AUGUST 6, 2013.**

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 Contracting Group 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 Prism®, the City's web-based contract compliance portal at:

<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. CONSTRUCTION COST: The City's estimated construction cost for this contract is **\$1,790,000.00.**

8. LOCATION OF WORK: The location of the Work is as follows:

Ash Street from 28th to Fern Street, B Street from 22nd to 27th Street, F Street from 24th to 25th Street, 25th Street from E to G Street, and 27th Street from A to B Street.

9. CONTRACT TIME: The Contract Time for completion of the Work shall be **110 Working Days.**

10. 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.

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

Option	Classification(s)
1	CLASS A
2	CLASS C34

11. WAGE RATES: Prevailing wages are not applicable to this contract.

12. INSURANCE REQUIREMENTS:

- 12.1. 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.
- 12.2. 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.

13. PREQUALIFICATION OF CONTRACTORS:

- 13.1. Contractors submitting Bid or Proposal 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>

- 13.2. 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 Contracting Group, Prequalification Program, 1010 Second Avenue, Suite 1400, 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.

14. 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	

15. **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.
16. **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.
17. **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.
18. **SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.
19. **AWARD PROCESS:**
 - 19.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
 - 19.2. 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.
 - 19.3. This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.
20. **SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The WHITEBOOK and as amended in the SSP which requires the Contractor to self perform the amount therein stipulated. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.
21. **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 Contracting Group.
22. **QUESTIONS:**
 - 22.1. 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 procurement action shall be addressed to the Public Works Contracting Group, Attention Contract Specialist, 1010 Second Avenue, Suite 1400, San Diego, California, 92101, and Telephone No. (619) 533-3450.

- 22.2. Questions received less than 14 days prior to the date for opening of Bids may not be answered.
- 22.3. Interpretations or clarifications considered necessary by the City in response to such questions will be issued by Addenda which will be uploaded to the City's online bidding service.
- 22.4. 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.
23. **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.
24. **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.
25. **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.
- 25.1. 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.
- 25.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.
- 25.3. 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.
- 25.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.

26. BIDDERS' GUARANTEE OF GOOD FAITH (BID SECURITY):

- 26.1.** 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.
- 26.2.** 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.
- 26.3.** A Bid received without the specified bid security will be rejected as being **non-responsive**.

27. AWARD OF CONTRACT OR REJECTION OF BIDS:

- 27.1.** This contract may be awarded to the lowest responsible and reliable Bidder.
- 27.2.** 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.
- 27.3.** 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.
- 27.4.** 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.
- 27.5.** 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 Contracting Group 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."
- 27.6.** 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.

- 27.7. 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.
- 27.8. 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.

28. BID RESULTS:

- 28.1. 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.
- 28.2. 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.

29. THE CONTRACT:

- 29.1. 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.
- 29.2. 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.
- 29.3. 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.
- 29.4. 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.

- 29.5.** 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.
- 30. 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.
- 31. CITY STANDARD PROVISIONS.** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 31.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 31.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 31.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 31.4.** The City of San Diego’s Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 31.5.** 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.
- 31.6.** The City’s Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 31.7.** The City’s Information Security Policy (ISP) as defined in the City’s Administrative Regulation 90.63.
- 32. PRE-AWARD ACTIVITIES:**
- 32.1.** 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**.
- 32.2.** 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

33. ADDITIVE/DEDUCTIVE ALTERNATES:

- 33.1.** The additive/deductive alternates have been established to allow the City to compare the cost of specific portions of the Work with the Project’s budget and enable the City to make decision prior to award. The award will be established as described in the Bid. The City reserves the right to award the Contract for the Base Bid only or the Base Bid plus any combination of Additive and Deductive Alternate(s).
- 33.2.** For water pipeline projects, the Plans typically show all cut and plug and connection work to be performed by City Forces. However, Bidders shall refer to Bidding Documents to see if all or part of this work will be performed by the Contractor.

34. REQUIRED DOCUMENT SCHEDULE:

- 34.1.** 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.
- 34.2.** 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	Form AA35 - List of Subcontractors
7.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
8.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA45 - Subcontractors Additive/Deductive Alternate
9.	WITHIN 3 WORKING DAY OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SLBE Good Faith Efforts Documentation

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
10.	WITHIN 3 WORKING DAY OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA60 – List of Work Made Available
11.	WITHIN 3 WORKING DAY OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
12.	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
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> • Joint Venture Agreement • Joint Venture License
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
17.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
20.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

CONTRACT FORMS AGREEMENT

CONTRACT FORMS AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and TC CONSTRUCTION COMPANY, INC., herein called "Contractor" for construction of WATER GROUP JOB 959; Bid No. K-14-5761-DBB-3; in the amount of ONE MILLION NINE HUNDRED FIFTY-FOUR THOUSAND NINE HUNDRED FIFTY-FIVE DOLLARS AND 60/100 (\$1,954,955.60), which is comprised of the Base Bid plus/minus Additive Alternates A and B.

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) That certain documents entitled WATER GROUP JOB 959, on file in the office of the City Clerk Department as Document No. B-11138, 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 WATER GROUP JOB 959, Bid Number K-14-5761-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.


**CONTRACT FORMS (continued)
AGREEMENT**

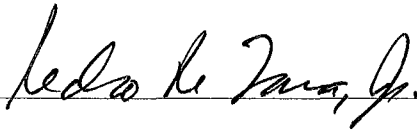
IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code §22.3107 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By: 
Stephen Samara
Senior Contract Specialist
Public Works Contracting Group

By: 
Print Name: Pedro De Lara, Jr.
Deputy City Attorney

Date: 11/20/2013

Date: 11/20/13

CONTRACTOR

By: 

Print Name: Austin Cameron

Title: Secretary

Date: 10/17/2013

City of San Diego License No.: B1987004773

State Contractor's License No.: 402459

**CONTRACT/AGREEMENT
ATTACHMENTS**

**CONTRACT ATTACHMENT
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

TC CONSTRUCTION COMPANY, INC., a corporation, as principal, and Liberty Mutual 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 **ONE MILLION NINE HUNDRED FIFTY-FOUR THOUSAND NINE HUNDRED FIFTY-FIVE DOLLARS AND 60/100 (\$1,954,955.60)** for the faithful performance of the annexed contract, and in the sum of **ONE MILLION NINE HUNDRED FIFTY-FOUR THOUSAND NINE HUNDRED FIFTY-FIVE DOLLARS AND 60/100 (\$1,954,955.60)** for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **WATER GROUP JOB 959**, Bid Number **K-14-5761-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.

CONTRACT ATTACHMENT (continued)
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

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

Dated October 11, 2013

Approved as to Form and Legality

TC Construction Company, Inc.

Principal

By 

Austin Cameron, Secretary

Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By 

Deputy City Attorney

Liberty Mutual Insurance Company

Surety

By 

Tara Bacon, Attorney-in-fact

Approved:

By 

Stephen Samara
Senior Contract Specialist
Public Works Contracting Group

790 The City Drive, Suite 200

Local Address of Surety

Orange, CA 92868

Local Address (City, State) of Surety

(800) 763-9268

Local Telephone No. of Surety

Premium \$ 15,577.00

Bond No. 024046102

ACKNOWLEDGMENT

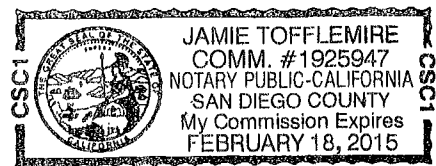
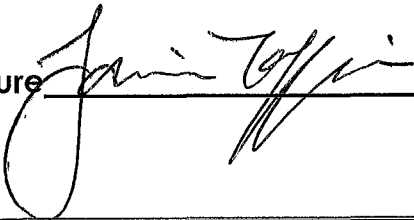
State of California
County of San Diego

On October 11, 2013 before me, Jamie Tofflemire, Notary Public, personally appeared Tara Bacon, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person 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



(Seal)

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6300617

American Fire and Casualty Company
The Ohio Casualty Insurance Company

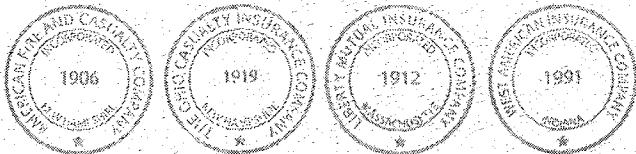
Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Bradley R. Orr; Dale G. Harshaw; Geoffrey Shelton; John R. Quallin; Kyle King; Tara Bacon

all of the city of San Diego, state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 24th day of September, 2013.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss
COUNTY OF KING

On this 24th day of September, 2013, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: KD Riley
KD Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

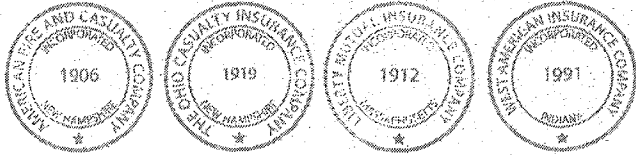
ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 11th day of October, 2013.



By: David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

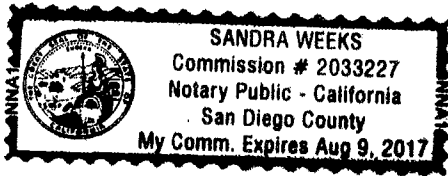
State of California

County of San Diego }

On October 16, 2013 Before me, Sandra Weeks, Notary Public,
Date Here Insert Name and Title of the Officer

personally appeared Austin Cameron
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: Sandra Weeks
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: _____ Signer's Name: _____

Corporate Officer — Title(s): _____ Corporate Officer — Title(s): _____

Individual Individual

Partner — Limited General Partner — Limited General

Attorney in Fact Attorney in Fact

Trustee Trustee

Guardian or Conservator Guardian or Conservator

Other: _____ Other: _____

Signer Is Representing: _____ Signer Is Representing: _____

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE


PROJECT TITLE: WATER GROUP JOB 959

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;

TC Construction Co., Inc.

(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 Austin Cameron

Title Secretary

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: WATER GROUP JOB 959

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;

TC Construction Co., Inc.

(Name under which business is conducted)

has in place 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 Austin Cameron

Title Secretary

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: WATER GROUP JOB 959

I declare under penalty of perjury that I am authorized to make this certification on behalf of TC Construction Co., 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 17th Day of October, 2013.

Signed 

Printed Name Austin Cameron

Title Secretary

AFFIDAVIT OF DISPOSAL

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

WATER GROUP JOB 959

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-14-5761-DBB-3**; SAP No. (WBS/CC/IO) **B-11138**; 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

SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

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 Supplement, ADD the following:

The Normal Working Hours are **8:30 A.M. to 3:30 P.M.**

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.

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

Other adjacent City projects are scheduled for construction for the same time period in the vicinity of F Street & 24th Street and on 25th Street between B Street & E Street. See Appendix "E" for approximate locations. Coordinate the Work with the adjacent projects as listed below:

- a) Water & Sewer Group 957, Wendy Gamboa (619 - 235-1971).
- b) 25th Street Renaissance, Brad Johnson (619 - 533-5120)

Attached are other contacts in the vicinity of the project. See Appendix “F” for approximate location and schedule (if applicable). The Work shall be coordinated with the contacts as listed below:

1. Albert Einstein Academies, 3035 Ash Street, Principals Jeannette Vaughn and David Sciarretta, (619) 795-1190.
2. Allgire Gen Contractors, Inc., 2302 F Street, (760) 477-8455.
3. El Shaddai Christian Ministries, 835 25th Street (619) 581-0476.

SECTION 4 - CONTROL OF MATERIALS

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 a City form when provided by the City.

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

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

5. For Water project where shutdowns of 16 inch and larger pipes are required, there is a shutdown moratorium from May until October. Contractor shall plan and schedule working accordingly. No additional payment or working days will be granted for delays due to this moratorium.

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 Contractor General Liability Insurance.

1. Contractor 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:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
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.

7-3.3 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.

7-3.6 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.

7-8.6 Water Pollution Control. ADD the following:

1. Based on a preliminary assessment by the City, the Contract is subject to WPCP.

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 3/4".

7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT. To the, 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.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

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

SECTION 9 – MEASURE AND PAYMENT

9-3.2.5 Withholding of Payment. To the, 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 not 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, REVISE the section numbering from 203-15 to 203-16 in its entirety. RPMS shall/may be used on this contract.

SECTION 207 – PIPE

207-9 IRON PIPE AND FITTINGS.

207-9.2 Ductile Iron Pipe for Water and Other Liquids.

207-9.2.1 General. ADD the following:

Ductile iron pipe with mechanically-locking push-on restrained joints at the 25th Street Overcrossing of State Route 94 shall be in accordance with AWWA C150 and C151. The pressure rating and class shall be as designated on plans. Restrained joint pipe shall be rated for the minimum pressure shown in Plans or the specified pressure rating of the pipe, whichever is less.

The proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be in conformance with CPUC General Orders.

The proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be 16" nominal diameter, class 350. Within the 25th Street Overcrossing of State Route 94 bridge superstructure, the lengths of proposed pipe sticks shall be 18' long, to match the pipe stick lengths of the existing waterline.

207-9.2.2 Pipe Joints. ADD the following:

The type of joints for the proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be mechanically-locking push-on restrained joints.

Mechanically-locking push-on restrained joints shall be "Flex-Ring" restrained joints as manufactured by American Ductile Iron Pipe, or approved equal. Restrained joints shall be rated for the minimum pressure shown in Plans or the specified pressure rating of the pipe, whichever is less.

207-9.2.3 Fittings. ADD the following:

Unless otherwise specified, gasket material shall be standard styrene butadiene copolymer (SBR).

207-9.2.4 Lining and Coating. ADD the following:

The exposed piping of the proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be primed with a universal primer compatible with ductile iron. The proposed waterline piping shall be cement-mortar lined per AWWA C104, and the minimum lining thickness shall not be less than 3/16", with no asphaltic seal coat required. The proposed waterline piping shall be asphalt coated per AWWA C151.

207-9.2.5 Inspection and Certification. ADD the following:

MANUFACTURER shall qualify all welding procedures and welders used to produce the ductile iron pipe with mechanically-locking push-on restrained joints per the requirements of a documented quality assurance system based on ANSI/AWS D11.2.

207-27 FUSIBLE NON-PRESSURE POLYVINYLCHLORIDE PIPE. DELETE in its entirety.

ADD:

207-9.4 Flexible Expansion Joints.

All flexible expansion joints shall be The Force Balanced FLEX-TEND as manufactured by EBAA Iron, Inc. Eastland, TX., U.S.A., or approved equal.

- a) Flexible expansion joints 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 its 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: 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) Manufacturer’s certification of compliance to the above standards and requirements shall be readily available upon request. The Owner shall reserve the right to inspect the manufacturer’s facility for compliance.

**ADD:
207-9.5**

Mechanical Joint Restraints.

Restraint devices for mechanical joint fittings and appurtenances conforming to either ANSI/AWWA C111/A21.11 or ANSI/AWWA C153/A21.53, shall conform to the following:

Design

1. Restraint devices for nominal pipe sizes 3 inch through 48 inch shall consist of multiple gripping wedges incorporated into a follower gland meeting the applicable requirements of ANSI/AWWA C110/A21.10.
2. The devices shall have a working pressure rating of 350 psi for 3-16 inch and 250 psi for 18-48 inch. Ratings are for water pressure and must include a minimum safety factor of 2 to 1 in all sizes.

Material

1. Gland body, wedges and wedge actuating components shall be cast from grade 65-45-12 ductile iron material in accordance with ASTM A536.
2. Ductile iron gripping wedges shall be heat treated within a range of 370 to 470 BHN.
3. Three (3) test bars shall be incrementally poured per production shift as per Underwriter’s Laboratory (U.L.) specifications and ASTM A536. Testing for tensile, yield and elongation shall be done in accordance with ASTM E8.
4. Chemical and nodularity tests shall be performed as recommended by the Ductile Iron Society, on a per ladle basis.

Traceability

1. An identification number consisting of year, day, plant and shift (YYDDD) (plant designation) (Shift number), shall be cast into each gland body.
2. All physical and chemical test results shall be recorded such that they can be accessed via the identification number on the casting. These Material Traceability Records (MTR's) are to be made available, in hard copy, to the purchaser that requests such documentation and submits his gland body identification number.
3. Production pieces that are too small to accommodate individual numbering, such as fasteners and wedges, shall be controlled in segregate inventory until such time as all quality control tests are passed. These component parts may then be released to a general inventory for final assembly and packaging.
4. All components shall be manufactured and assembled in the United States. The purchaser shall, with reasonable notice, have the right to plant visitation at his/her expense.

Approvals

1. Restraint devices shall be Listed by Underwriters Laboratories (3" through 24" inch size) and Approved by Factory Mutual (3" through 12" inch size).
2. Mechanical joint restraint shall be Megalug Series 1100 produced by EBAA Iron Inc. or approved equal.

SECTION 300 – EARTHWORK

300-1.4 **Payment.** To the, 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.

302-5.1.1 Damaged AC Pavement Replacement. To the City Supplement, DELETE in its entirety.

302-5.1.2 Measurement and Payment. To the City Supplement, DELETE in its entirety.

SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

303-1 CONCRETE STRUCTURES.

303-1.11 Payment. ADD the following:

Payment for concrete vault for flexible expansion joint shall be paid for at the contract unit price per each and shall include full compensation for excavating and disposing of all material necessary to make room to place concrete vault, furnishing and installing the proposed concrete vault, construction and shoring of access pit for vault work and access, placing and jointing of all pipes, fittings, restraints and appurtenances, compaction, all bedding, backfill, temporary and permanent resurfacing, handling, all appurtenances, utility protection, all labor and materials necessary to construct the work shown in the plans, and all work necessary to complete the construction of the concrete vault for flexible expansion joint complete in place, and no additional compensation will be allowed.

SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

306-1 OPEN TRENCH OPERATIONS.

306-1.1 Trench Excavation.

306-1.1.1 General. ADD the following:

The Contractor shall excavate and shore access pits at each end of the 25th Street Overcrossing of State Route 94, in order to construct the proposed ductile iron waterline.

Build the Project in accordance with the water high lining phasing shown on the Plans and in phases as follows:

Phase I: B Street from 22nd to 27th Street and 27th Street from A to B Street

Phase II: Ash Street from 28th to Fern Street

Phase III: F Street from 24th to 25th Street and 25th Street to E to G Street

306-1.2 Installation of Pipe. ADD the following:

The proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be in conformance with CPUC General Orders.

The maximum weight per foot of the proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94, with water and supports, will be approximately 185 pounds per foot.

The existing cast iron waterline and cradle supports at the 25th Street Overcrossing of State Route 94 shall be removed and disposed at the Contractor's expense.

306-1.2.1 Bedding.

306-1.2.1.1 General. ADD the following:

Bedding material for the proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be in accordance with City of San Diego standard drawing SDW-110.

306-1.2.6 Field Jointing of Iron Pipe. e) Mechanical Joints. ADD the following:

Mechanically-locking push-on restrained joint extension after installation; the bolt-less restraint locking mechanism allows up to one inch of free axial movement and also provides substantial flexibility after installation. However, the joints shall be extended after assembly to minimize this joint take up and safety is maximized by filling and testing restrained sections of pipelines after installation/backfilling as recommended by ANSI/AWWA C600, Installation of Ductile Iron Water Mains and Their Appurtenances and AWWA M41.

In any application where axial or lateral movement may be undesirable, such as certain bridge crossings, certain exposed or unburied piping applications, or certain connections of restrained pipe sections to rigid piping, special provisions, including effective joint extension, shall hereby be required to control unacceptable pipeline movement. Depending on job conditions and restrained pipe length, cumulative joint take-up can obviously be substantial, particularly in exposed piping applications. Joint pre-extension is required in the piping system, and it shall be accomplished by pulling or jacking the spigot away from the socket until firm resistance is encountered. This will not limit joint flexibility.

Pipe joints shall be watertight under pressure and the foreseeable conditions of expansion, contraction, and settlement.

Within the 25th Street Overcrossing of State Route 94 bridge superstructure, locations of proposed pipe joints in the proposed waterline shall match the locations of the pipe joints in the existing waterline.

Mechanical Joint Restraints

Restraint devices for mechanical joint fittings and appurtenances conforming to either ANSI/AWWA C111/A21.11 or ANSI/AWWA C153/A21.53, shall conform to the following:

Installation

1. Mechanical joint restraint shall require conventional tools and installation procedures per AWWA C600, while retaining full mechanical joint deflection during assembly as well as allowing joint deflection after assembly.
2. Proper actuation of the gripping wedges shall be ensured with torque limiting twist off nuts.

Restraint Coating System (MEGA-BOND®, or Approved Equal)

Coating for restraint devices shall consist of the following:

All wedge assemblies and related parts shall be processed through a phosphate wash, rinse and drying operation prior to coating application. The coating shall consist of a minimum of two coats of liquid thermoset epoxy coating with heat cure to follow each coat.

All casting bodies shall be surface pretreated with a phosphate wash, rinse and sealer before drying. The coating shall be electrostatically applied and heat cured. The coating shall be a polyester based powder to provide corrosion, impact and UV resistance.

The coating system shall be MEGA-BOND by EBAA Iron, Inc. or approved equal. Requests for approved equal must submit coating material and process details for review prior to bid.

For more information regarding MEGA-BOND, refer to the MEGA-BOND brochure or visit

www.ebaa.com.

ADD:

306-1.2.15

Flexible Expansion Joint Installation, Measurement and Payment.

Flexible expansion joints shall be installed in the locations indicated on the plans.

- a) Remove protective end covers.
- b) Remove polyethylene sleeves and other materials.
- c) Check interior, remove dirt and foreign material from interior and end connections.
- d) Assembly of flanged joint connections:
 - i. Place flange O-ring in groove.
 - ii. Place unit flange against adjoining flange.
 - iii. Check O-ring for proper position.
 - iv. Tighten flange bolts.
- e) Assembly of mechanical joint connections using the EBAA Iron, Inc. MEGALUG® Mechanical Joint Restraint, or approved equal, suitable for the adjacent pipe material:

- i. Series 1100 MEGALUG, or approved equal, for restraining Ductile Iron Pipe.
(Assembly instructions for each of these restraints are included with the restraint devices.)
- f) Remove shipping skid.

Flexible expansion joints shall be furnished and installed in accordance with the contract documents. Measurement for the furnishing and installation of flexible expansion joints shall be per each. The price for furnishing and installation of flexible expansion joints shall be considered full compensation for all work necessary to complete the furnishing and installation of the flexible expansion joints, complete in place, and no additional compensation will be made therefor.

306-1.3 Backfill and Densification.

306-1.3.1 General. ADD the following:

Backfill for the proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be in accordance with City of San Diego standard drawing SDW-110.

306-1.4 Testing Pipelines.

306-1.4.1 General. ADD the following:

The maximum operating pressure of the waterline at the 25th Street Overcrossing of State Route 94 is 90 PSI.

306-1.5 Trench Resurfacing.

306-1.5.2 Permanent Resurfacing. ADD the following:

Permanent resurfacing for the proposed ductile iron waterline at the 25th Street Overcrossing of State Route 94 shall be in accordance with City of San Diego standard drawing SDG-107.

306-1.6 Basis of Payment for Open Trench Installations. ADD the following:

Payment for ductile iron pipe shall be measured, along the centerline of the pipe, and paid for at the contract unit price per linear foot and shall include full compensation for removing and disposing of the existing cast iron waterline and cradle supports, furnishing and installing the proposed pipe, construction and shoring of access pit for pipe work and deck access, demolition and reconstruction of abutment backwall, placing and jointing of pipes, compaction, all trenching, bedding, backfill, temporary and permanent resurfacing, handling, all appurtenances, utility protection, all labor and materials necessary to construct the work shown in the plans, and all work necessary to complete the construction of the ductile iron pipe complete in place, and no additional compensation will be allowed.

Cradle pipe supports shall be constructed in accordance with the contract documents. Measurement for the construction of cradle pipe supports shall be per each. The price for construction of cradle pipe supports shall be considered full compensation for all work necessary to complete the construction of the cradle pipe supports, complete in place, and no additional compensation will be made therefor.

Soffit drain openings shall be constructed in accordance with the contract documents. Measurement for the construction of soffit drain openings shall be per each. The price for construction of soffit drain openings shall be considered full compensation for all work necessary to complete the construction of the soffit drain openings, complete in place, and no additional compensation will be made therefor.

306-5.3 Payment. To the, item 2) ADD the following:

2. Payment for removing and capping abandoned water meter boxes outside the proposed trench zone shall be included in the Bid items for remove and cap abandoned water meter boxes.

306-22 Pipe Fusion. DELETE in its entirety.

SECTION 600 – WORK INVOLVING THE CITY FORCES

600-1.2.1.2 Highline Removal by Contractor. To the City Supplement, DELETE the first paragraph (a) and SUBSTITUTE with the following:

When directed by the Engineer the Contractor shall transfer the water services and remove the high-line materials. The Contractor will pickup and deliver all the City high-line materials to Water Operations Division at: Chollas Station, 2797 Caminito Chollas, San Diego, CA 92105.

600-1.2.1.3 Payment. To the City Supplement, DELETE the 3rd paragraph (c) and SUBSTITUTE with the following:

If high-lining by Contractor is awarded under “Alternate” payment for high-lining removal and water service transfers by Contractor shall be included in the unit bid price for “High-lining by the Contractor”. Otherwise, if City Forces install the high-line system and the Contractor is requested to transfer the water services, remove the high-line and deliver to the City designated location, payment shall then be made in accordance with the unit bid price for “High-lining Removed by Contractor” in the base bid.

SECTION 707 – RESOURCE DISCOVERIES

ADD:

707-1.1

Environmental Document. The Scope of Work of **Water Group Job 959** is included in the **Mitigated Negative Declaration** for **Water Group 959**. The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared **Mitigated Negative Declaration** for **Water Group 959, Project No. 255100**, as referenced in the Contract Appendix J. You must comply with all requirements of the Mitigated Negative Declaration.

Compliance with the City’s environmental document is included in the various Bid items, unless a bid item has been provided.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

SUPPLEMENTARY SPECIAL PROVISIONS

APPENDICES

Appendix A
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.)

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 2 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

- 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.

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SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 3 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

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.

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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.

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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

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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

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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

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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.

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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. These 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.

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- 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)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Meter Information

Application Date	Requested Install Date:
------------------	-------------------------

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) <u>Zip:</u>	<u>T.B.</u>	<u>G.B. (CITY USE)</u>
Specific Use of Water:		
Any Return to Sewer or Storm Drain, If so, explain:		
Estimated Duration of Meter Use: <input type="text"/>	<input type="checkbox"/>	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: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			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: ()

<input type="checkbox"/> City Meter	<input type="checkbox"/> 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 B

Materials Typically Accepted by Certificate of Compliance

Materials Typically Accepted by Certificate of Compliance

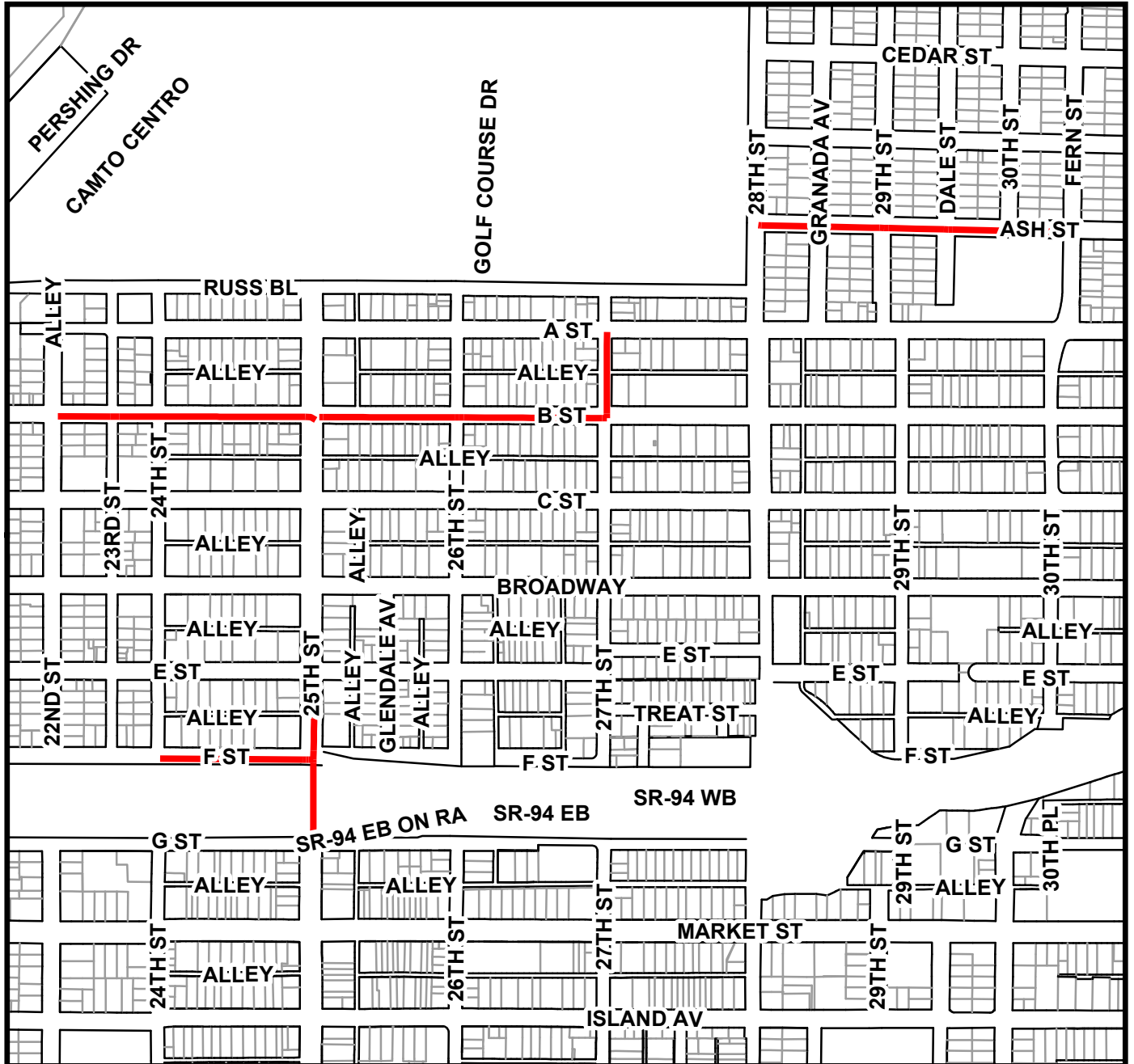
1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
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 C
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 D
Location Map

Location Map

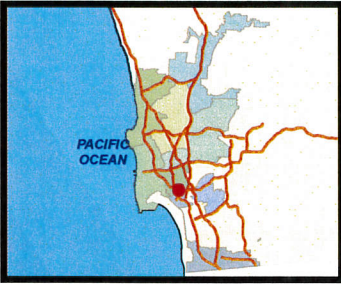


Legend

 GJ 959



Appendix E
Adjacent Projects



Adjacent Projects



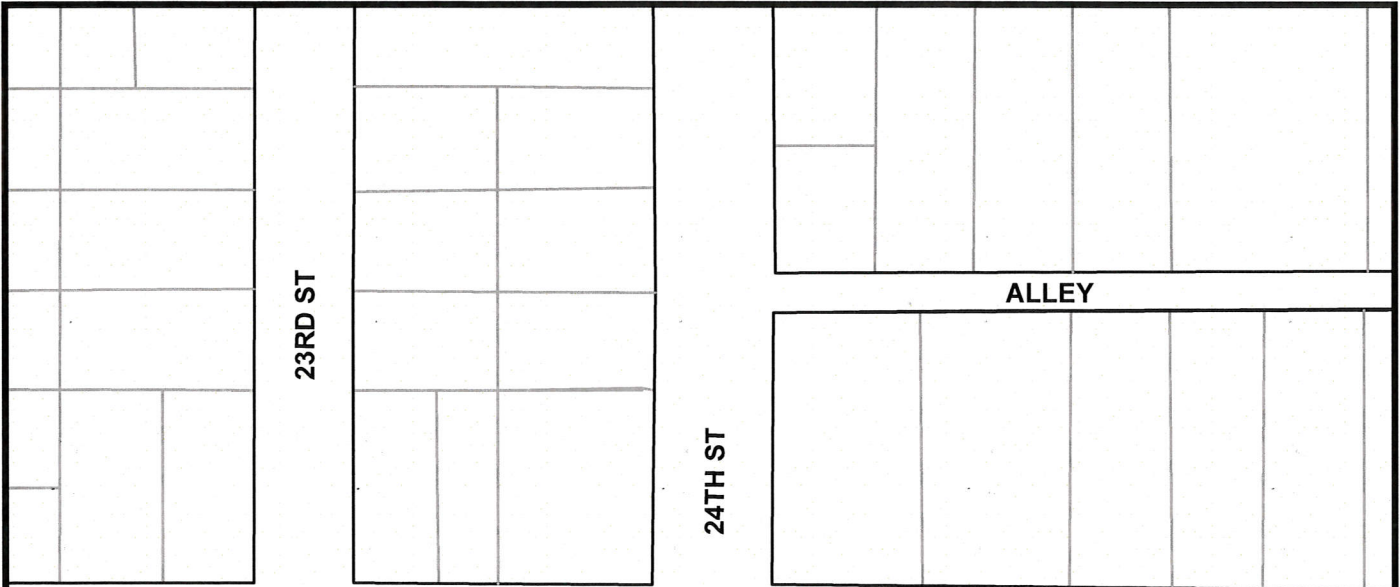
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-  25th St Renaissance
-  GJ 959





Adjacent Projects



Water & Sewer Group 957

F ST

Water Group Job 959

SR-94 WB

SR-94 EB

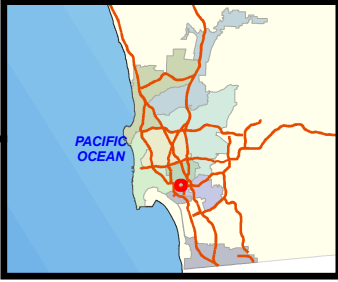
Legend

-  GJ 959
-  GJ 957



Appendix F

Other Contacts



School

SENIOR ENGINEER
Nevien Antoun
619-533-7492

PROJECT MANAGER
Laila Nasrawi
619-533-4619

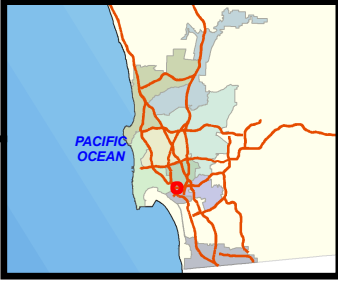
PROJECT ENGINEER
Lotous Lenguyen
619-533-4626



Legend

 GJ 959





Other Contacts

SENIOR ENGINEER
Nevien Antoun
619-533-7492

PROJECT MANAGER
Laila Nasrawi
619-533-4619

PROJECT ENGINEER
Lotous Lenguyen
619-533-4626



Legend

 GJ 959



Appendix G

Hydrostatic Discharge Form

APPENDIX

Hydrostatic Discharge Requirements Certification (Discharge Events < 500,000 gpd)

All discharge activities related to this project comply with the Regional Water Quality Control Board (RWQCB) Order No. 2002-0020, General Permit for Discharges of Hydrostatic Test Water and Potable Water to Surface Water and Storm Drains as referenced by (http://www.swrcb.ca.gov/rwqcb9/board_decisions/adopted_orders/2002/2002_0020.shtml), 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:							<i>is discharge within acceptable limits?</i>		<i>Comment</i>
Event #	Discharge Date & Amount (GAL)	Discharge Time	Meter Readings (at source)	Test Results (Chlorine / PH)	Name of Personnel Conducting Tests (print)	*signature of personnel	yes	no	
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
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	Date	Start:	Start:						
	Amt:	End:	End:						

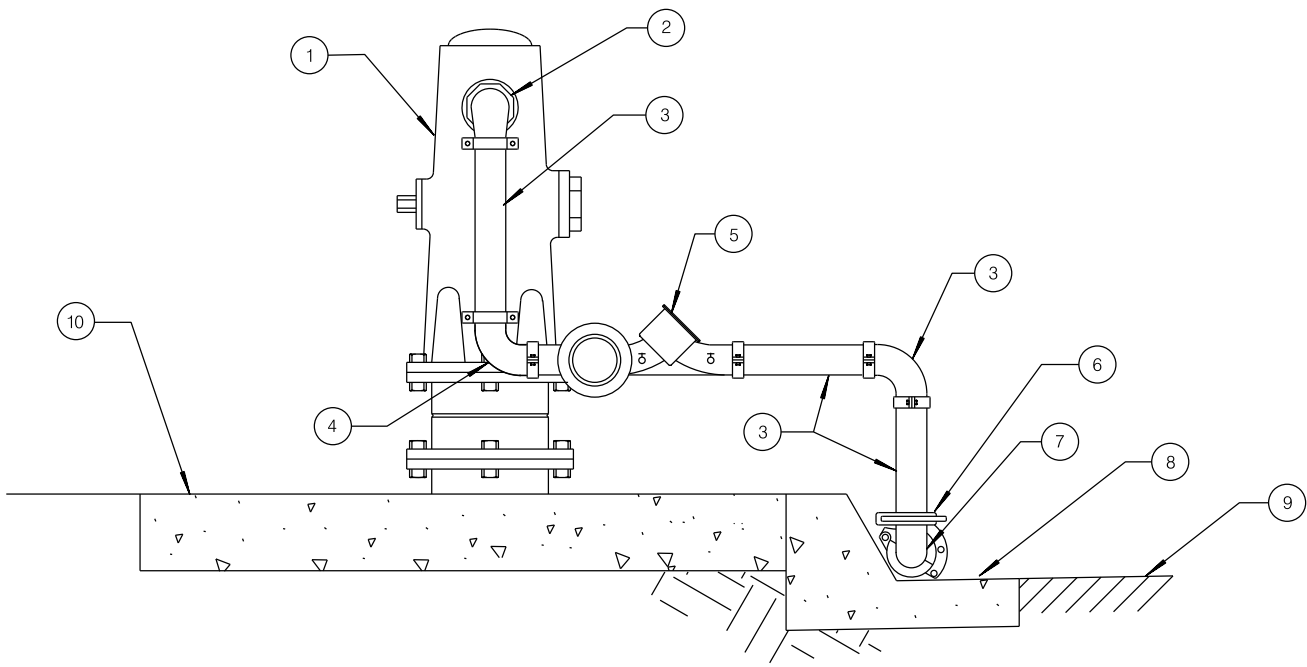
**By signing, I certify that all of the statements and conditions for hydrostatic discharge events are correct.*

Project Name: _____

Work Order No.(s): _____

Have any thresholds have been exceeded? Per Order No. 2002-0020, 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
High-lining Figure



- ① EXISTING 2-PORT FIRE HYDRANT
- ② 2 1/2" PORT TO 2" ADAPTER ELBOW W/THREADED FITTING
- ③ 2" PIPE (GROOVED)
- ④ 2" 90° ELBOW W/THREADED JOINT FITTINGS
- ⑤ 2" BACKFLOW PREVENTER (ONE WAY CHECK VALVE) W/THREADED JOINT FITTINGS
- ⑥ SNAP-JOINT COUPLING (2-GROOVE)
- ⑦ 2" TEE/90° ELBOW W/ SNAP-JOINT COUPLING(S) (2-GROOVE) W/DIRECTIONAL SHUT OFF VALVE(S) (NOT SHOWN)
- ⑧ EXISTING CURB & GUTTER
- ⑨ EXISTING ROADWAY
- ⑩ EXISTING CONCRETE PAD/SIDEWALK

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

CITY OF SAN DIEGO – STANDARD DRAWING

2" FIRE HYDRANT HIGHLINING CONNECTION

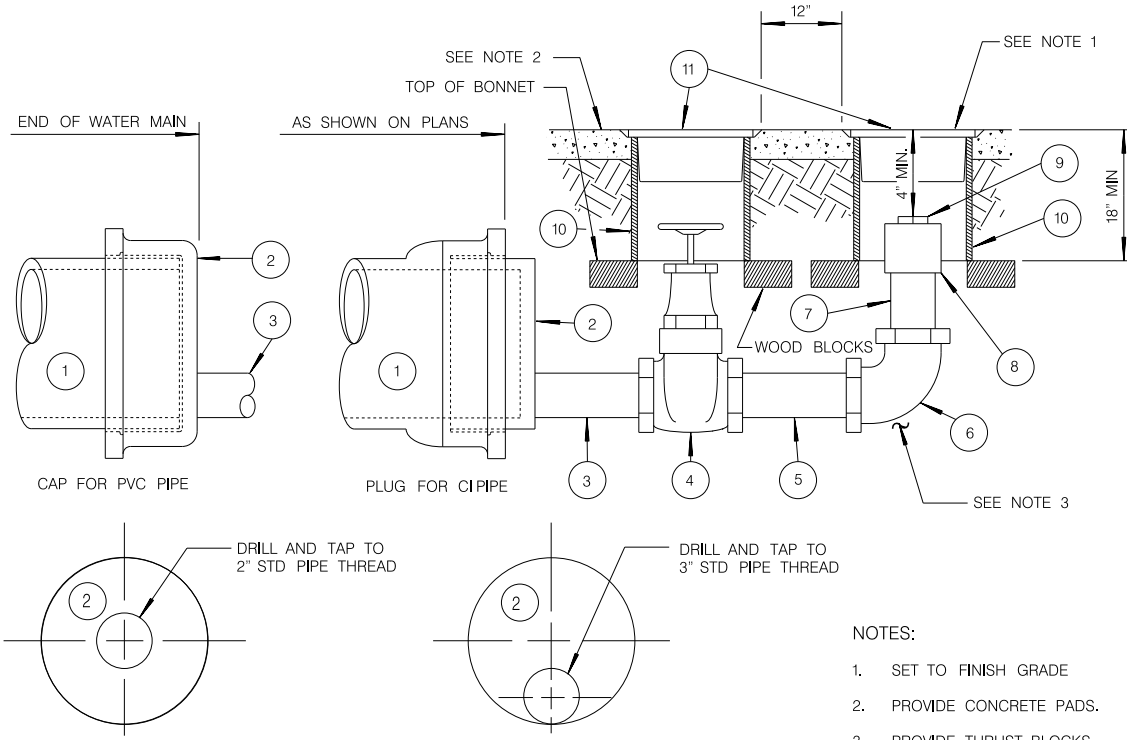
RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

R. C. E.
COORDINATOR R.C.E. 65271 DATE **12/17/2012**

DRAWING NUMBER **SDW-170**

Appendix I

Updated Water Standard Drawings



CONCENTRIC PLUG DRILLED FOR 2" BLOW-OFF FOR 3"-8" MAINS

ECCENTRIC PLUG DRILLED FOR 3" BLOW-OFF FOR 10"-20" MAINS

- NOTES:
1. SET TO FINISH GRADE
 2. PROVIDE CONCRETE PADS.
 3. PROVIDE THRUST BLOCKS.
 4. REFER TO OTHER CITY STANDARD DRAWINGS FOR MORE MORE DETAILS.

SCHEDULE			
ITEM		SIZE AND DESCRIPTION	
1	WATER MAIN	3" - 8" INCL.	10" - 20" INCL.
2	CAST IRON PLUG OR CAP	MAIN SIZE X 2"	MAIN SIZE X 3"
3	Brass Nipple	2" X 8"	3" X 8"
4	BRONZE GATE VALVE WITH BRONZE WHEEL-SCREW ENDS	2"	3"
5	Brass Nipple	AS NEEDED	AS NEEDED
6	BRASS 90° EL	2"	3"
7	BRASS RISER	2" X VARIABLE TO GRADE MINUS 4"	3" X VARIABLE TO GRADE MINUS 4"
8	BRASS COUPLING THREAD	2"	3"
9	BRASS PLUG	2"	3"
10	STEEL CASING FOR GATE VALVE AND RISER	8" X VARIABLE TO GRADE MINUS 34"	8" X VARIABLE TO GRADE MINUS 34"
11	GATE WELL CAP AND CAN SEE SDW-153	8"	8"

REVISION	BY	APPROVED	DATE
ORIGINAL		J. MUELLER	3-3-83
NOTES	AO	F. BELOCK	04-96
NOTES	SM	A. OSKOU	12-03
NOTES	JS	A. OSKOU	12-06
UPDATED	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

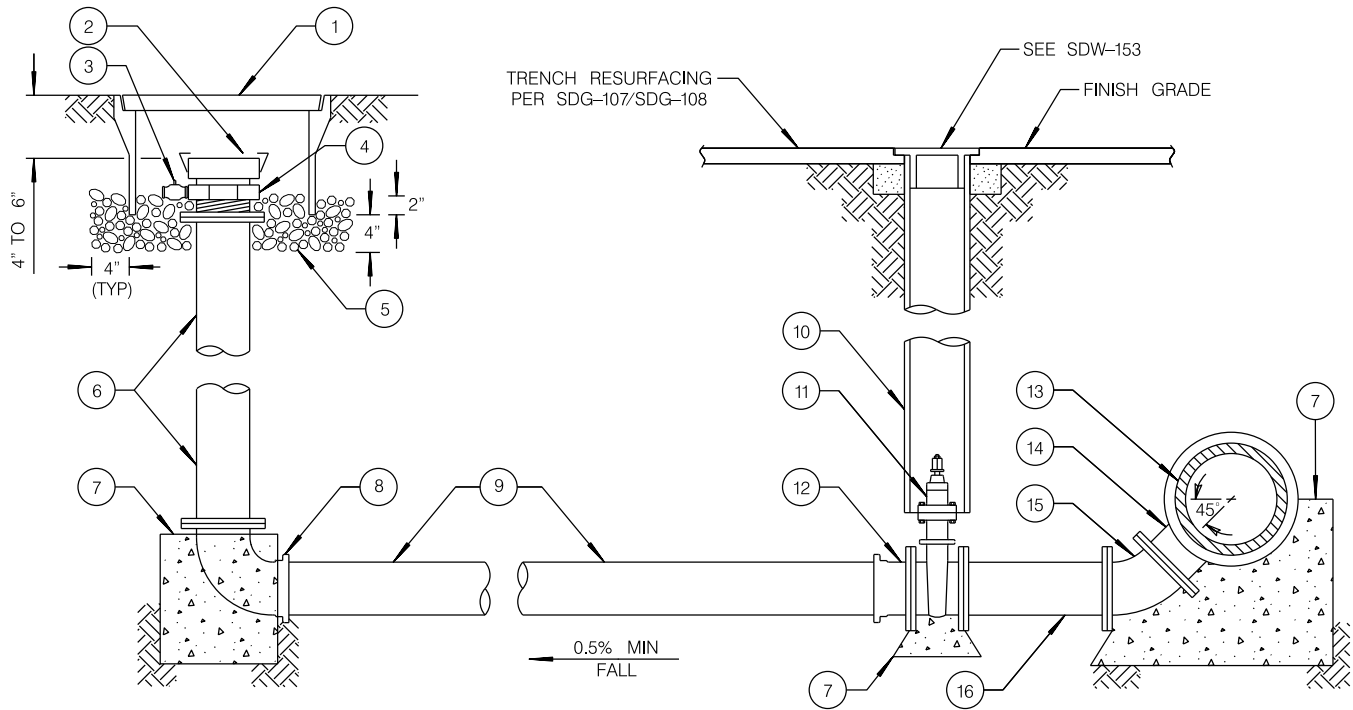
CITY OF SAN DIEGO - STANDARD DRAWING

**BLOW-OFF ASSEMBLIES
AT THE END OF
PVC AND CAST IRON MAINS**

RECOMMENDED BY THE CITY OF SAN DIEGO REGIONAL STANDARDS COMMITTEE

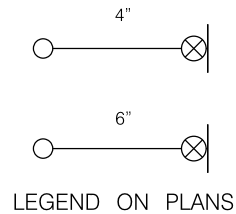
[Signature] 12/17/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-106**



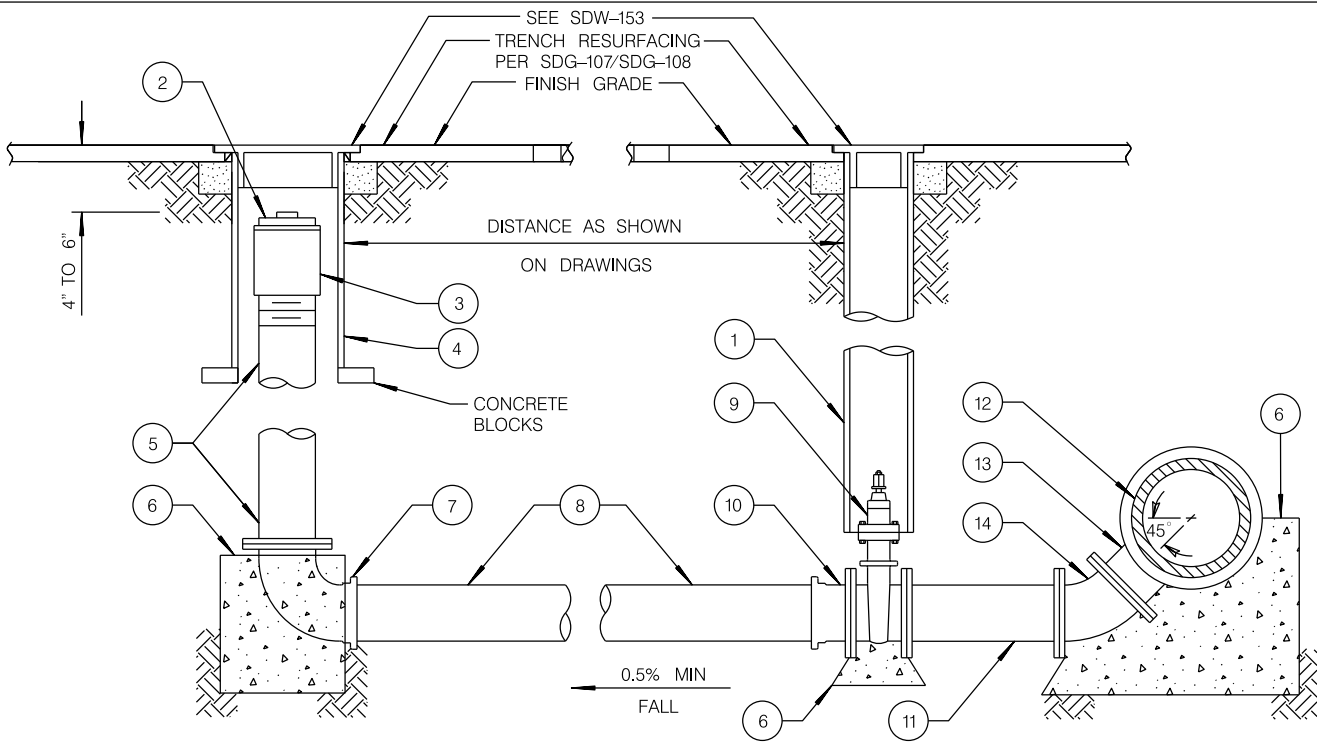
NOTES:

- 1) SET TOP OF METER BOX FLUSH WITH SIDEWALK, CURB OR FINISH GRADE
- 2) LOCATE METER BOX
- 3) INSTALL WARNING / IDENTIFICATION TAPE
- 4) FOR BLOW-OFF INSTALLATION AT END OF MAIN SEE OTHER STANDARD DRAWINGS
- 5) BLOW-OFF ASSEMBLIES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SPECIFICATIONS
- 6) 45° BEND SHALL BE USED FOR MAINS UP TO 30°. 90° BEND SHALL BE USED FOR MAINS IN EXCESS OF 30° AS DIRECTED BY THE ENGINEER
- 7) CAM & GROOVE ADAPTER SHALL BE DRILLED AND TAPPED AS REQUIRED FOR THE PRESSURE PET COCK

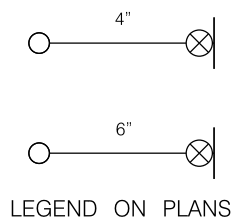


ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	POLYMER METER BOX WITH LID 17" x 30", SEE NOTE 2	8	4" OR 6" FLG x MJPO 90° BEND
2	4" OR 6" CAM & GROOVE ADAPTER x MIPT WITH LOCKING DUST CAP, SEE NOTE 7	9	USE DUCTILE IRON OR PVC C900
3	1/4" PRESSURE PET COCK	10	VALVE WELL FRAME AND COVER (SEE SDW-153, SDW-154)
4	4" OR 6" FLANGED COMPANION x FIPT	11	4" OR 6" FLG x MJPOFLG RWGV
5	3/8" ROCK 4" TO 6" DEEP	12	4" OR 6" FLG x MJPO ADAPTER (IF REQUIRED)
6	4" OR 6" FLG DIPIPE x REQUIRED LENGTH (MAXIMUM OF 2 SPOOLS)	13	WATER MAIN
7	CONCRETE THRUST BLOCK SEE SDW-151	14	SIZE x 4" OR 6" MJPOFLG x FLG TEE
		15	4" OR 6" FLANGED 45° BEND
		16	4" OR 6" x 24" FLG DISPOOL

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL*	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>
UPDATED	KA	J. NAGELVOORT	12/12		12/17/2012
					COORDINATOR R.C.E. 65271 DATE
				4" & 6" BLOW-OFF INSTALLATION TYPE A	DRAWING NUMBER SDW-144

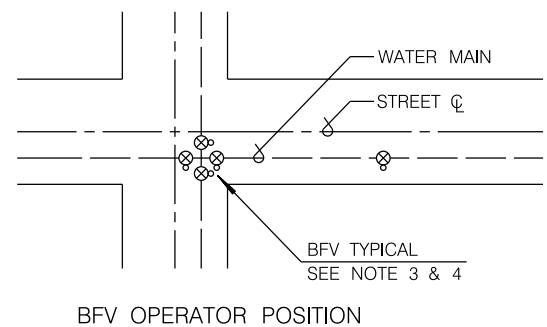
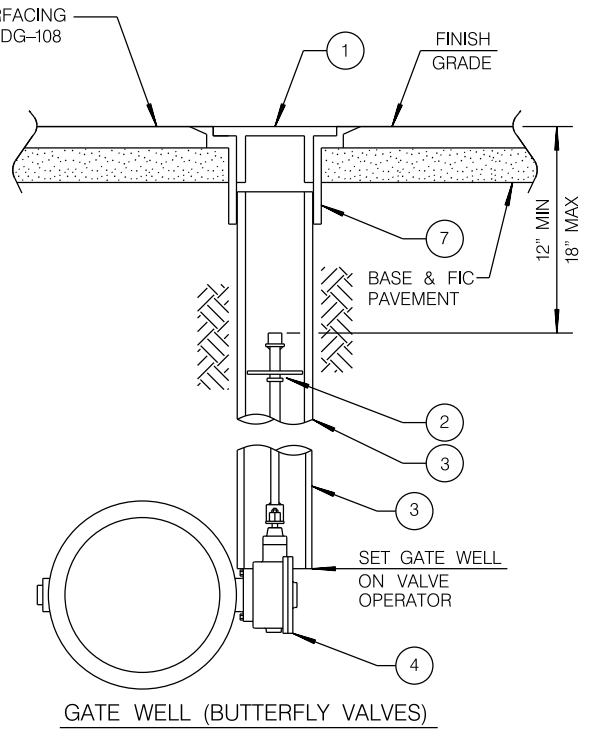
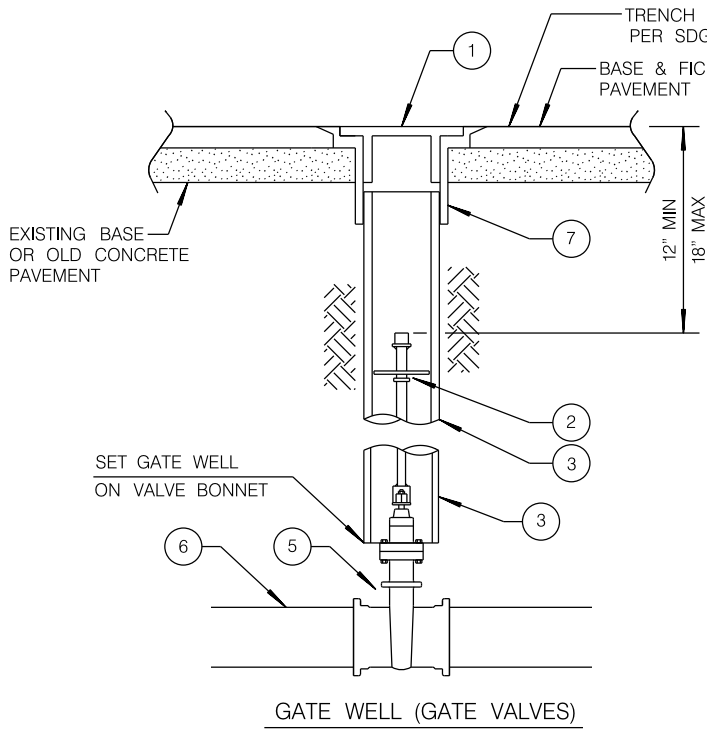


- NOTES:
- 1) FOR BLOW-OFF INSTALLATION AT END OF MAIN SEE OTHER STANDARD DRAWINGS
 - 2) BLOW-OFF ASSEMBLIES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SPECIFICATIONS
 - 3) ON STEEL MAINS USE WELD ON COUPLINGS, ON DUCTILE IRON MAINS USE DUCTILE IRON SERVICE SADDLES (INSULATING BUSHINGS ARE REQUIRED)
 - 4) 45° BEND SHALL BE USED FOR MAINS UP TO 30°. 90° BEND SHALL BE USED FOR MAINS IN EXCESS OF 30° AS DIRECTED BY THE ENGINEER

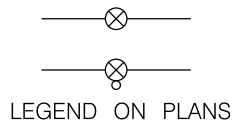


ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	GATE WELL WITH CAP SEE SDW-153 OR SDW-154	8	DUCTILE IRON OR C-900 PVC
2	GALVANIZED IRON PLUG	9	4" OR 6" FLG x MJ / PO / FLG RWGV
3	GALVANIZED IRON COUPLING, THREADED	10	4" OR 6" FLG x MJ / PO ADAPTER (IF REQUIRED)
4	10" STEEL GATE WELL WITH CAP	11	4" OR 6" x 24" FLG DISPOOL
5	4" OR 6" FLG DI PIPE x REQUIRED LENGTH (MAXIMUM OF 2 SPOOLS)	12	WATER MAIN
6	CONCRETE THRUST BLOCK SEE SDW-151	13	SIZE x 4" OR 6 MJ / PO / FLG x FLG TEE
7	FLANGE x FLANGE x 90° BEND	14	4" OR 6" FLANGED 45° BEND, SEE NOTE 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL*	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>
UPDATED	KA	J. NAGELVOORT	12/12	4" & 6" BLOW-OFF INSTALLATION IN STREET TYPE B	COORDINATOR R.C.E. 65271 DATE
					DRAWING NUMBER SDW-145

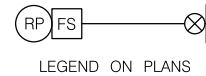
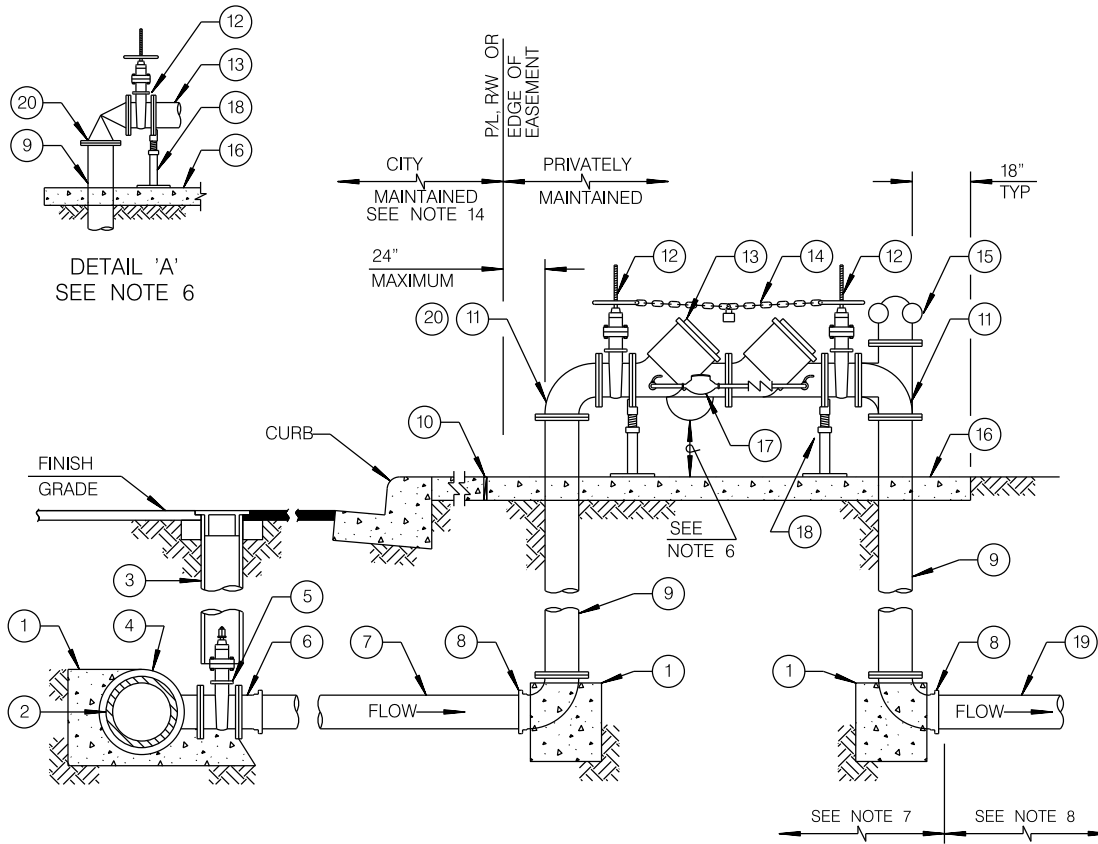


- NOTES:
- 1) VALVES DEEPER THAN 6' REQUIRE A VALVE STEM EXTENSION
 - 2) EXTENSION STEMS SHALL NOT BE ATTACHED/BOLTED TO OPERATING NUT
 - 3) GATE WELL AND CAP SHALL BE SET SO THAT NO MORE THAN TWO 1" ADJUSTMENT RINGS ARE USED
 - 4) BFV OPERATORS TO BE LOCATED TO THE CURBLINE SIDE OF WATER MAIN
 - 5) BFV'S INSTALLED AT CROSSES OR TEES REQUIRE A FLANGED DUCTILE IRON SPOOL TO BE INSTALLED BETWEEN THE FITTING AND VALVE IN ACCORDANCE WITH THE SPECIFICATIONS
 - 6) FOR INLINE VALVE ANCHOR BLOCK INSTALLATION
 - 7) VALVE WELL FRAME SHALL BE SET TO SLOPE OF STREET



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
①	GATE WELL WITH CAP	⑤	RESILIENT WEDGE GATE VALVE
②	VALVE STEM EXTENSION SEE NOTES 1 & 2	⑥	WATER MAIN
③	8" OD x 18" STEEL CASING x REQUIRED LENGTH GATE WELL SEE NOTE 6	⑦	18" THICK, 8 5/8" OD CAST IRON RISER RING PER SDRW-104
④	BUTTERFLY VALVE		

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL*	KA	J. NAGELVOORT	01/12		
UPDATED	KA	J. NAGELVOORT	12/12	GATE WELL CAP & CAN INSTALLATION FOR VALVES 4" AND LARGER	<i>H. Hadali</i> COORDINATOR R.C.E. 65271
					12/17/2012 DATE
					DRAWING NUMBER SDW-153



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
①	CONCRETE THRUST BLOCK SEE SDW-151	⑬	RPDA SEE NOTE 3
②	WATER MAIN	⑭	CHAIN WITH KNOX LOCK SEE NOTE 3
③	GATE WELL WITH CAP SEE SDW-153	⑮	FLANGED TEE WITH "FDC" SEE NOTE 3
④	SIZE x SIZE MJPO/FLG x FLG TEE	⑯	CONCRETE SLAB MINIMUM 4" THICK x 36" WIDE x AS REQUIRED
⑤	FLG x MJPO/FLG RWGV	⑰	3/4" BYPASS, METER & RP DEVICE
⑥	FLG x MJPO ADAPTER (IF REQUIRED)	⑱	ADJUSTABLE VALVE SUPPORT
⑦	C-900 PVC PIPE	⑲	PVC OR DI PIPE SEE NOTE 8
⑧	MJPO x FLG 90° BEND	⑳	FLANGED ANGLE PRESSURE REDUCING VALVE SEE NOTE 6
⑨	FLANGED DUCTILE IRON PIPE		
⑩	COLD JOINT STRIP		
⑪	FLANGED 90° BEND, SEE NOTE 6		
⑫	FLANGED OS&Y RWGV WITH HAND WHEEL		

SHEET 1 OF 2

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL*	KA	J. NAGELVOORT	01/12			<i>J. Nagelvoort</i>
UPDATED	KA	J. NAGELVOORT	12/12			12/17/2012
				4" AND LARGER FIRE SERVICE INSTALLATION	COORDINATOR R.C.E. 65271 DATE	
					DRAWING NUMBER SDW-105	


NOTES:

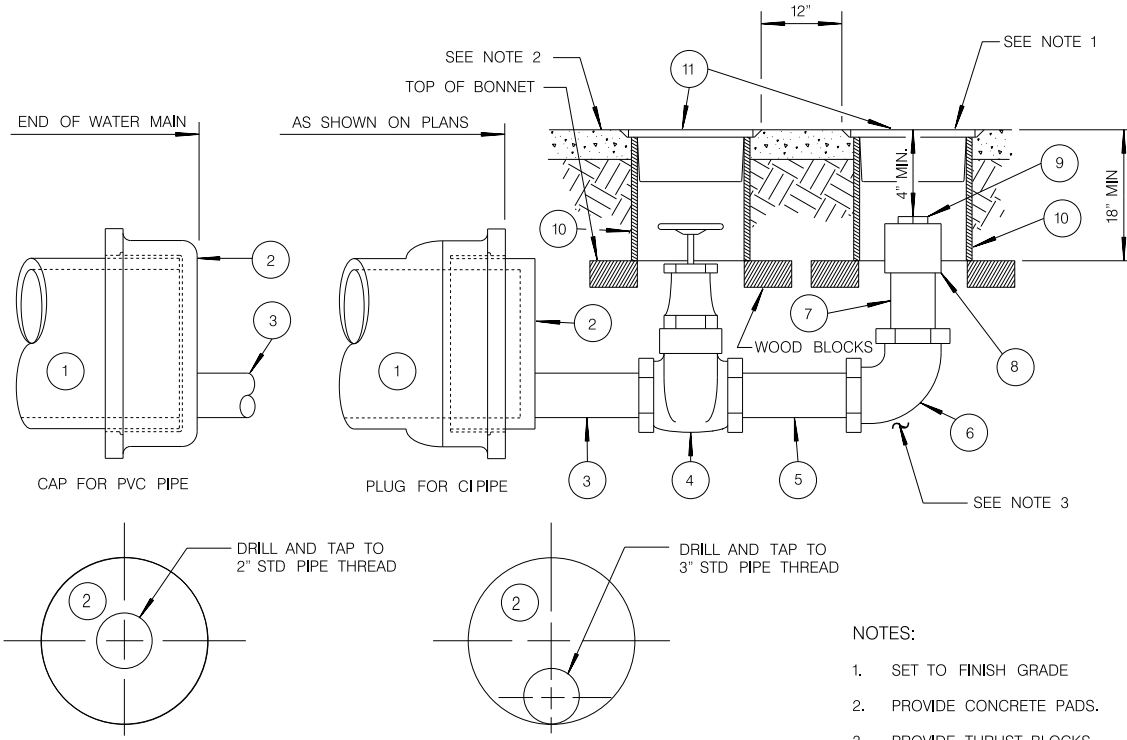
- 1) INSTALL WARNING / IDENTIFICATION TAPE
- 2) LOCATION OF FIRE SERVICES SHALL BE AS DIRECTED BY THE FIRE DEPARTMENT
FIRE SERVICES SHOULD BE LOCATED IN SUCH A MANNER THAT WILL ALLOW THE DEVICE TO BE READILY ACCESSIBLE FOR INSPECTION, REPAIR, AND USE
- 3) TAMPER SWITCH, AUTOMATIC RESET, CHAIN WITH KNOX LOCK, AND FIRE DEPARTMENT CONNECTION ("FDC") SHALL BE AS REQUIRED BY THE FIRE DEPARTMENT
- 4) BALL VALVE TEST COCKS SHALL BE PROVIDED AND LOCATED PER THE MANUFACTURES RECOMMENDATIONS AND CITY STANDARDS
- 5) INSTALL FIRE SERVICES SO THAT THE DISTANCE BETWEEN THE BOTTOM OF THE RELIEF DIAPHRAGM AND THE CONCRETE SLAB OR FINISH GRADE IS 12" MINIMUM AND 24" MAXIMUM
- 6) INSTALL A PRESSURE REDUCING VALVE UPSTREAM OF THE FIRST 90 BEND WHEN SYSTEM STATIC PRESSURE EXCEEDS 150 PSI OR WHEN RECOMMENDED BY THE BACKFLOW MANUFACTURER
- 7) INSTALL PIPE AND RELATED APPURTENANCES IN THIS AREA PER THE CITY REQUIREMENTS
- 8) INSTALL PIPE AND RELATED APPURTENANCES IN THIS AREA AS REQUIRED BY THE FIRE DEPARTMENT
- 9) ABOVE GROUND APPURTENANCES SHALL BE PAINTED AND IDENTIFIED AS CALLED FOR BY THE FIRE DEPARTMENT
- 10) TESTING SHALL BE CONDUCTED AS CALLED FOR IN THE SPECIFICATIONS PRIOR TO ACCEPTANCE
- 11) CONNECTIONS TO STEEL MAINS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS
- 12) CITY RESPOSIBILITY ENDS AT EDGE OF PROPERTY LINE, RIGHT OF WAY, OR EASEMENT.



LEGEND ON PLANS

SHEET 2 OF 2

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL*	KA	J. NAGELVOORT	01/12		4" AND LARGER FIRE SERVICE INSTALLATION	 12/17/2012
UPDATED	KA	J. NAGELVOORT	12/12	COORDINATOR R.C.E. 65271		DATE
				DRAWING NUMBER		SDW-105



CONCENTRIC PLUG DRILLED FOR 2" BLOW-OFF FOR 3"-8" MAINS

ECCENTRIC PLUG DRILLED FOR 3" BLOW-OFF FOR 10"-20" MAINS

- NOTES:
1. SET TO FINISH GRADE
 2. PROVIDE CONCRETE PADS.
 3. PROVIDE THRUST BLOCKS.
 4. REFER TO OTHER CITY STANDARD DRAWINGS FOR MORE MORE DETAILS.

SCHEDULE			
ITEM		SIZE AND DESCRIPTION	
1	WATER MAIN	3" - 8" INCL.	10" - 20" INCL.
2	CAST IRON PLUG OR CAP	MAIN SIZE X 2"	MAIN SIZE X 3"
3	Brass Nipple	2" X 8"	3" X 8"
4	BRONZE GATE VALVE WITH BRONZE WHEEL-SCREW ENDS	2"	3"
5	Brass Nipple	AS NEEDED	AS NEEDED
6	BRASS 90° EL	2"	3"
7	BRASS RISER	2" X VARIABLE TO GRADE MINUS 4"	3" X VARIABLE TO GRADE MINUS 4"
8	BRASS COUPLING THREAD	2"	3"
9	BRASS PLUG	2"	3"
10	STEEL CASING FOR GATE VALVE AND RISER	8" X VARIABLE TO GRADE MINUS 34"	8" X VARIABLE TO GRADE MINUS 34"
11	GATE WELL CAP AND CAN SEE SDW-153	8"	8"

REVISION	BY	APPROVED	DATE
ORIGINAL		J. MUELLER	3-3-83
NOTES	AO	F. BELOCK	04-96
NOTES	SM	A. OSKOU	12-03
NOTES	JS	A. OSKOU	12-06
UPDATED	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

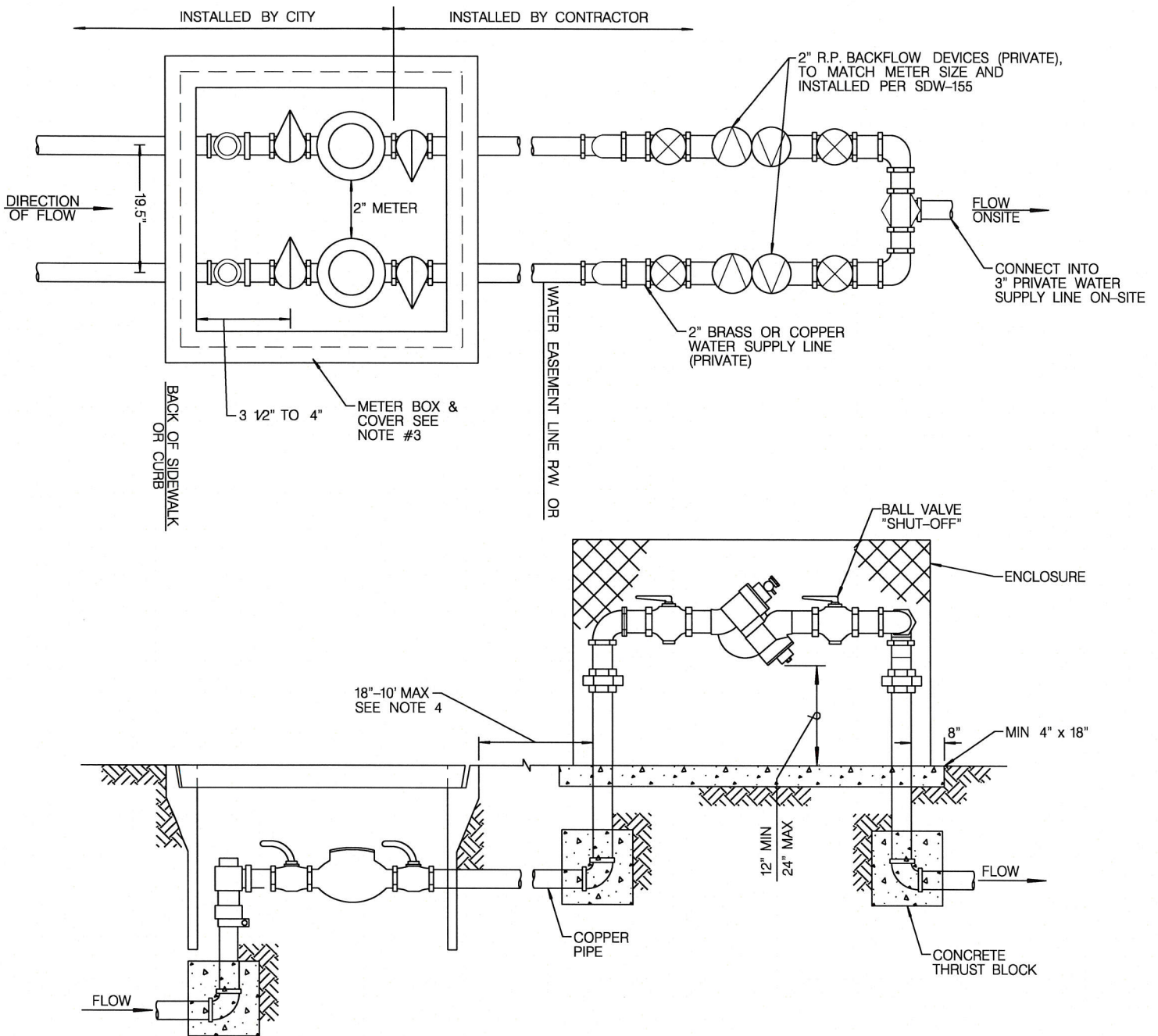
CITY OF SAN DIEGO - STANDARD DRAWING

**BLOW-OFF ASSEMBLIES
AT THE END OF
PVC AND CAST IRON MAINS**

RECOMMENDED BY THE CITY OF SAN DIEGO REGIONAL STANDARDS COMMITTEE

[Signature] 12/17/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-106**



NOTES:

1. ANY BACKFLOW PROTECTING A SERVICE USED FOR HUMAN CONSUMPTION SHALL BE LEAD FREE
2. ALL METER/BACKFLOW INSTALLATIONS SHALL BE APPROVED BY PUBLIC UTILITIES DEPARTMENT
3. SERVICE CONNECTIONS ON WATER MAIN SHALL BE 30" APART
4. INSTALL A CASING INCASED IN CONCRETE WHEN THE DISTANCE BETWEEN THE METER BOX AND THE RISER TO THE BFD EXCEEDS 18". NO CONNECTIONS OF ANY KIND PERMITTED IN THIS AREA.
5. SEE SDW-155 FOR ADDITIONAL INFORMATION

2-2" METER AND 2" BACKFLOW INSTALLATION WITH SERVICE AND COFFER BOX

SHEET 1 OF 3

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	03/13

CITY OF SAN DIEGO - STANDARD DRAWING

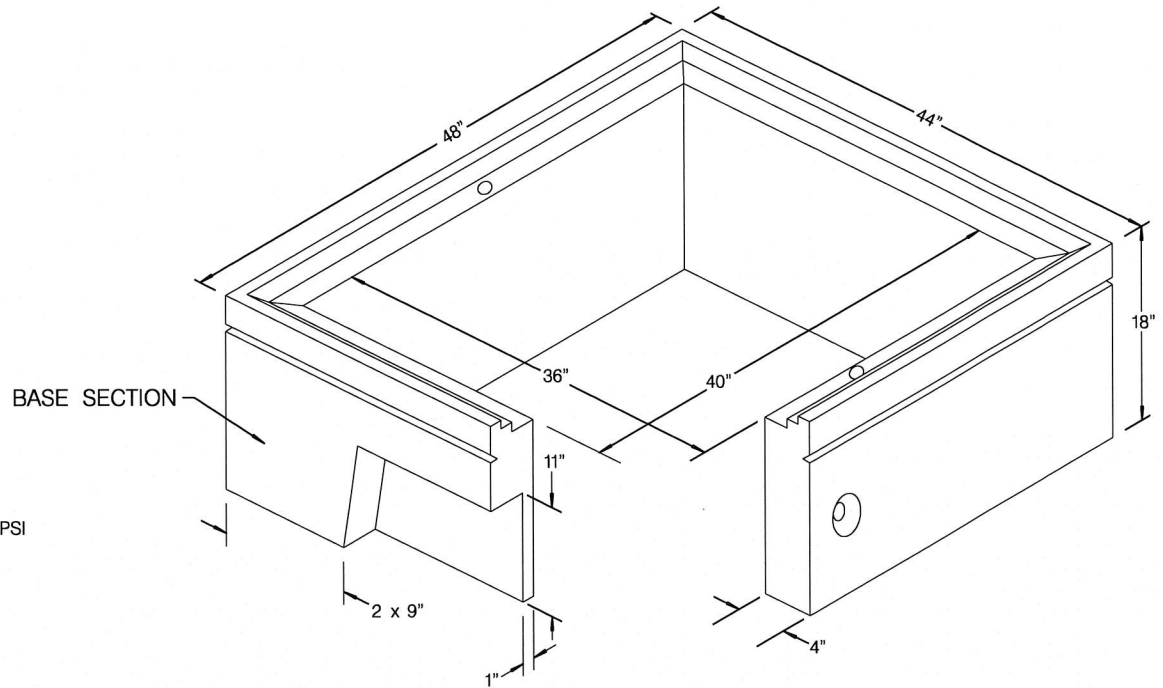
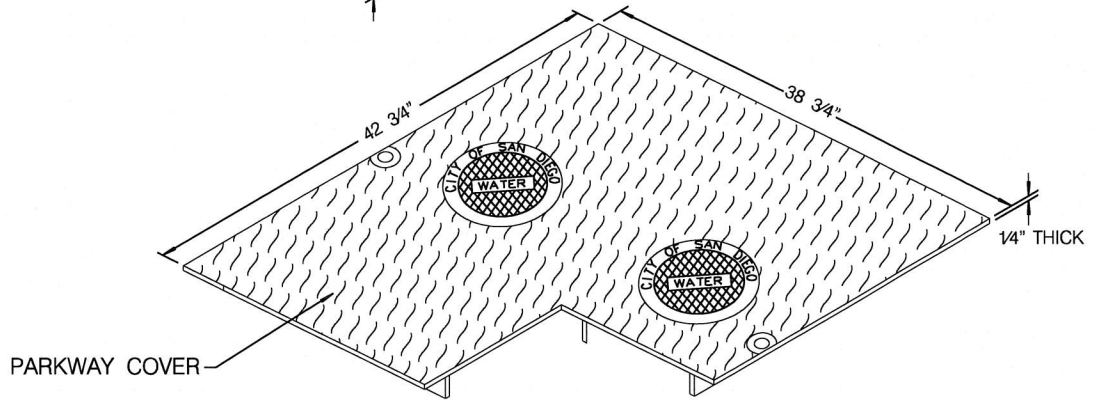
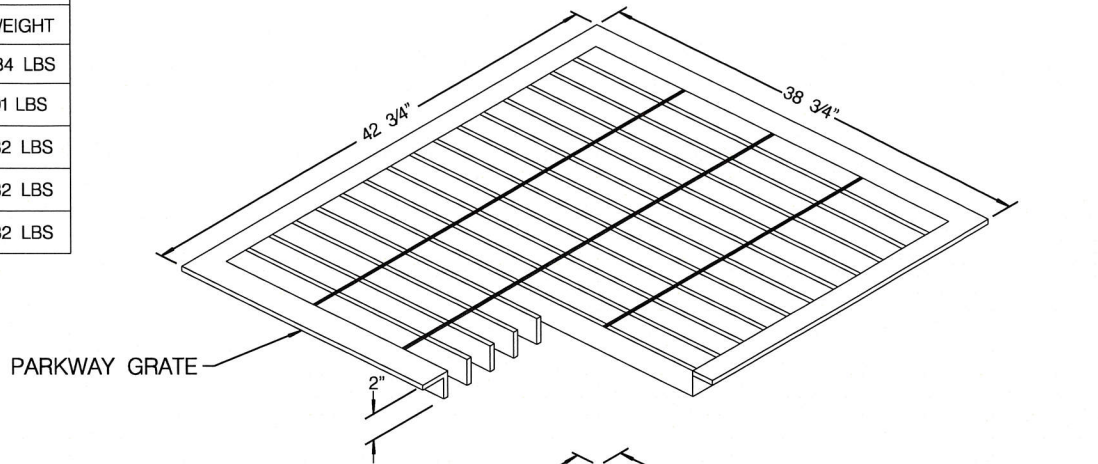
2" METER, BACKFLOW AND COFFER BOX

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

J. Nagelvoort 30113
 COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-114**

CONFIGURATION BLOCK		
DESCRIPTIONS	HEIGHT	WEIGHT
METER BOX	18"	884 LBS
PARKWAY COVER STEEL	2"	191 LBS
PARKWAY COVER STEEL GALVANIZED	2"	182 LBS
PARKWAY COVER STEEL W/HOLES	2"	182 LBS
PARKWAY GRATE	2"	182 LBS



NOTE:

1. CONCRETE BASE: 5000 PSI

36" x 40" METER BOX PARKWAY

SHEET 2 OF 3

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	03/13

CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

D. Hadzi

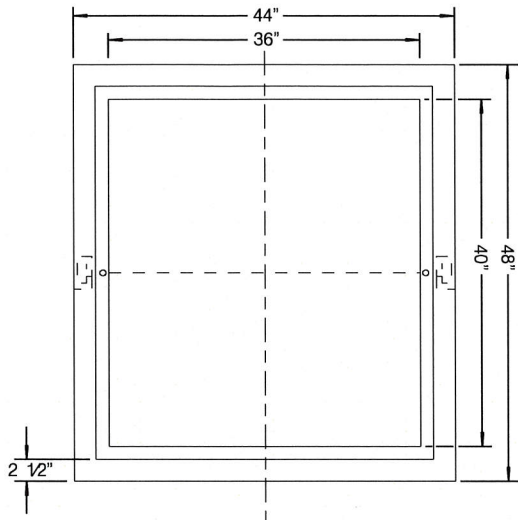
3/01/13

COORDINATOR R.C.E. 65271 DATE

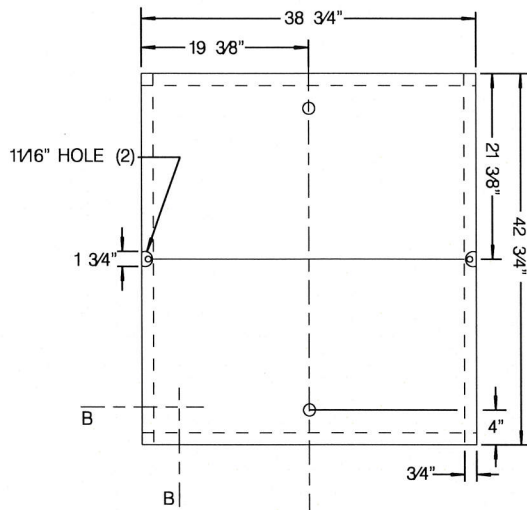
2" METER, BACKFLOW AND COFFER BOX

DRAWING
NUMBER

SDW-114

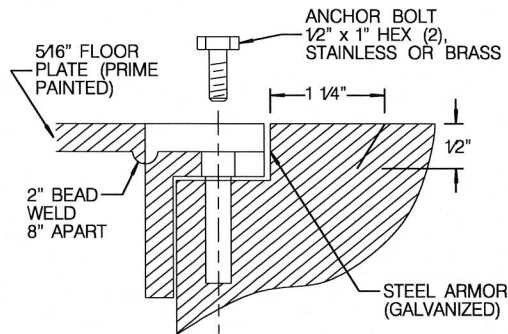
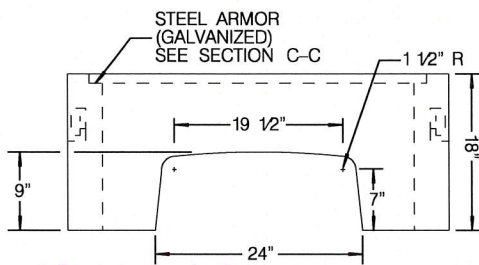


BOX - TOP VIEW

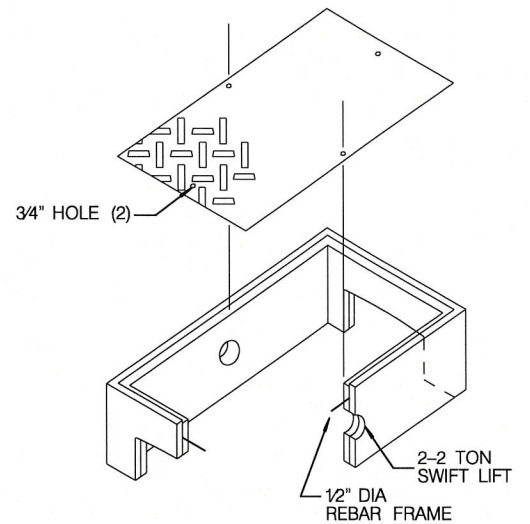


COVER - TOP VIEW

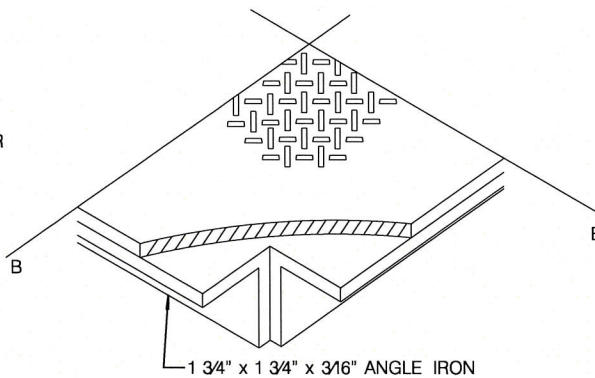
BOX - END VIEW



CROSS-SECTION: COVER, BOX & ANCHOR



REBAR FRAME



SECTION B-B OF COVER

SHEET 3 OF 3

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	03/13

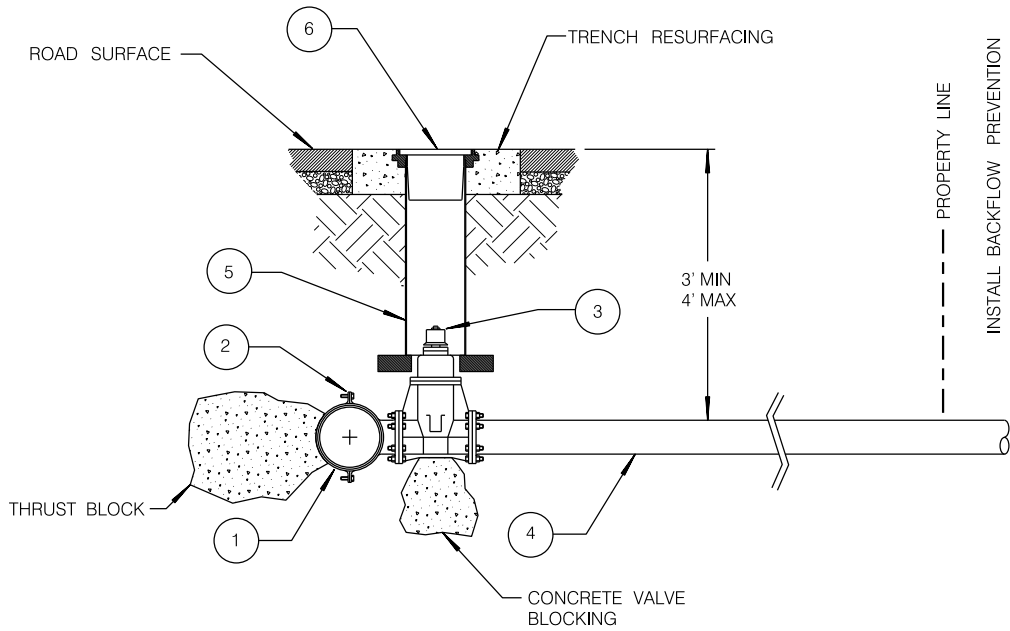
CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

J. Nagelvoort 3/01/13
 COORDINATOR R.C.E. 65271 DATE

2" METER, BACKFLOW AND COFFER BOX

DRAWING NUMBER **SDW-114**



ITEMS CALL OUT:

- 1 WATER MAIN
- 2 FLANGED TAPPING SLEEVE OR TEE (NO SIZE-ON-SIZE TAPS ALLOWED) (4 X 4, 6 X 6, ETC). NO EXTENSIONS ALLOWED.
- 3 FULL RESILIENT SEAT GATE VALVE . SIZE OF VALVE SHALL MATCH SIZE OF FIRE SERVICE (4" MINIMUM DIAMETER). SEE NOTE #1.
- 4 4" OR LARGER DIAMETER OF PIPE (DUCTILE IRON OR PVC PER APPROVED MATERIALS LIST).
- 5 VALVE WELL.
- 6 VALVE WELL COVER SEE SDW-153.

NOTES:

- 1. FOR SMALLER FIRE SERVICE REQUIREMENTS, USE REDUCER AT PROPERTY LINE.
- 2. FOR CORROSION CONTROL REQUIREMENTS, SEE PUBLIC UTILITIES DEPARTMENT DESIGN GUIDE.

REVISION	BY	APPROVED	DATE
ORIGINAL	BB	OSKOU	1009
NOTES	AO	F. BELOCK	496
NOTES	JS	A. OSKOU	1206
UPDATED	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

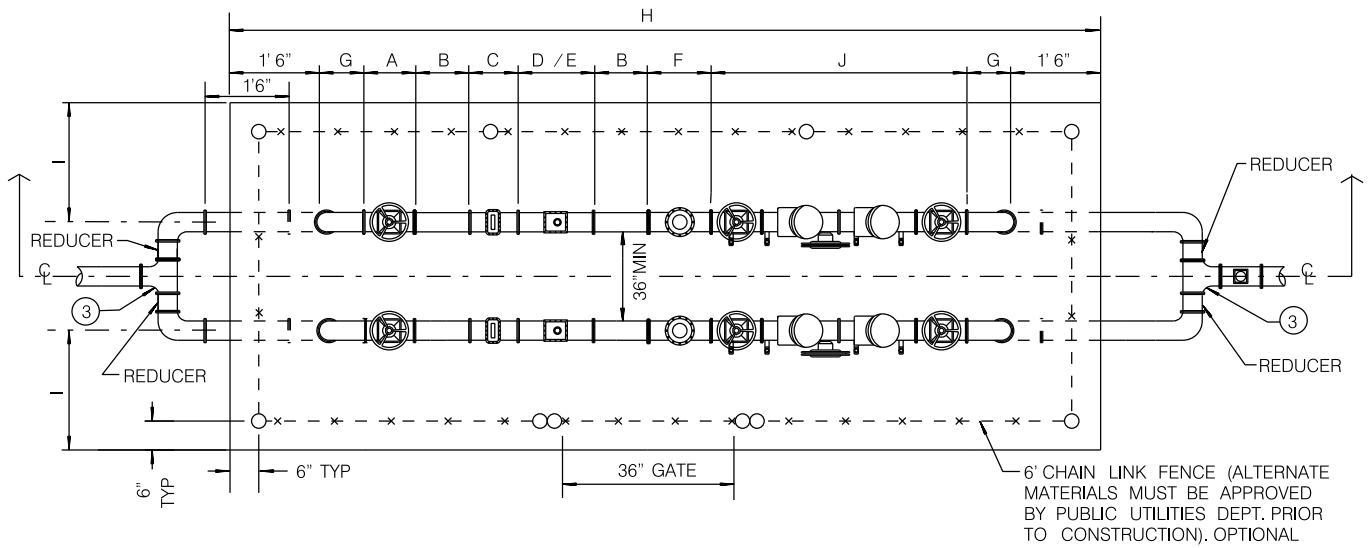
CITY OF SAN DIEGO – STANDARD DRAWING

**FIRE SERVICE CONNECTION
& ASSEMBLY**

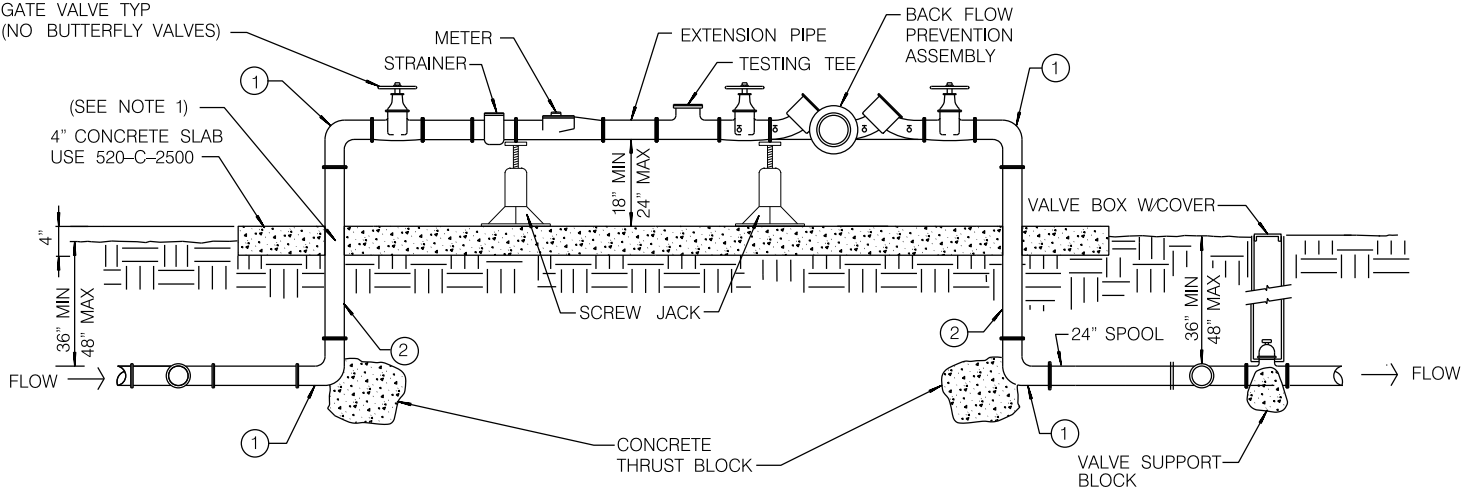
RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

R.C.E. 65271
COORDINATOR R.C.E. 65271 DATE 12/17/2012

DRAWING NUMBER **SDW-118**



FULL RESILIENT SEATED
GATE VALVE TYP
(NO BUTTERFLY VALVES)



NOT TO SCALE

NOTES:

1. ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE COATED WITH A DIELECTRIC COATING, A LIQUID EPOXY COATING SYSTEM PER AWWA C-210 AT 24 MILS MINIMUM DRY FILM THICKNESS (MDF), OR A COLD APPLIED THREE-PART SYSTEM PETROLEUM WAX TAPE PER AWWA C-217, OR A 100% POLYURETHANE COATING OF 24 MILS (MDF) SUITABLE.
2. ANY CHANGES SHALL HAVE PUBLIC UTILITIES DEPARTMENT APPROVAL.
3. PIPING SHALL BE SYMMETRICAL TO SLAB CENTERLINE.
4. SUPPLY PIPE IS ONE COMMERCIAL SIZE LARGER THAN PROPOSED METER.
5. CONCRETE SLAB AND FENCE WILL BE INSTALLED BY CONTRACTOR.

ITEMS CALL OUT:

- ① 90° FLANGED DUCTILE IRON ELBOW (TYP).
- ② FLANGED DUCTILE IRON SPOOL, BOTH ENDS SHALL BE FLANGED (UNI-FLANGE SHALL NOT BE USED).
- ③ DIAMETER OF TEE SHALL BE EQUAL TO THE DIAMETER OF THE SUPPLY PIPE.

SHEET 1 OF 2

REVISION	BY	APPROVED	DATE
ORIGINAL	JC		
REVISION	BM	A. OSKOUI	12/03
NOTES	JS	A. OSKOUI	12/06
UPDATED	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

CITY OF SAN DIEGO – STANDARD DRAWING

**DUAL ABOVE GROUND METER AND
BACKFLOW PREVENTION ASSEMBLIES**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadi 12/17/2012
COORDINATOR R.C.E. 65271 DATE

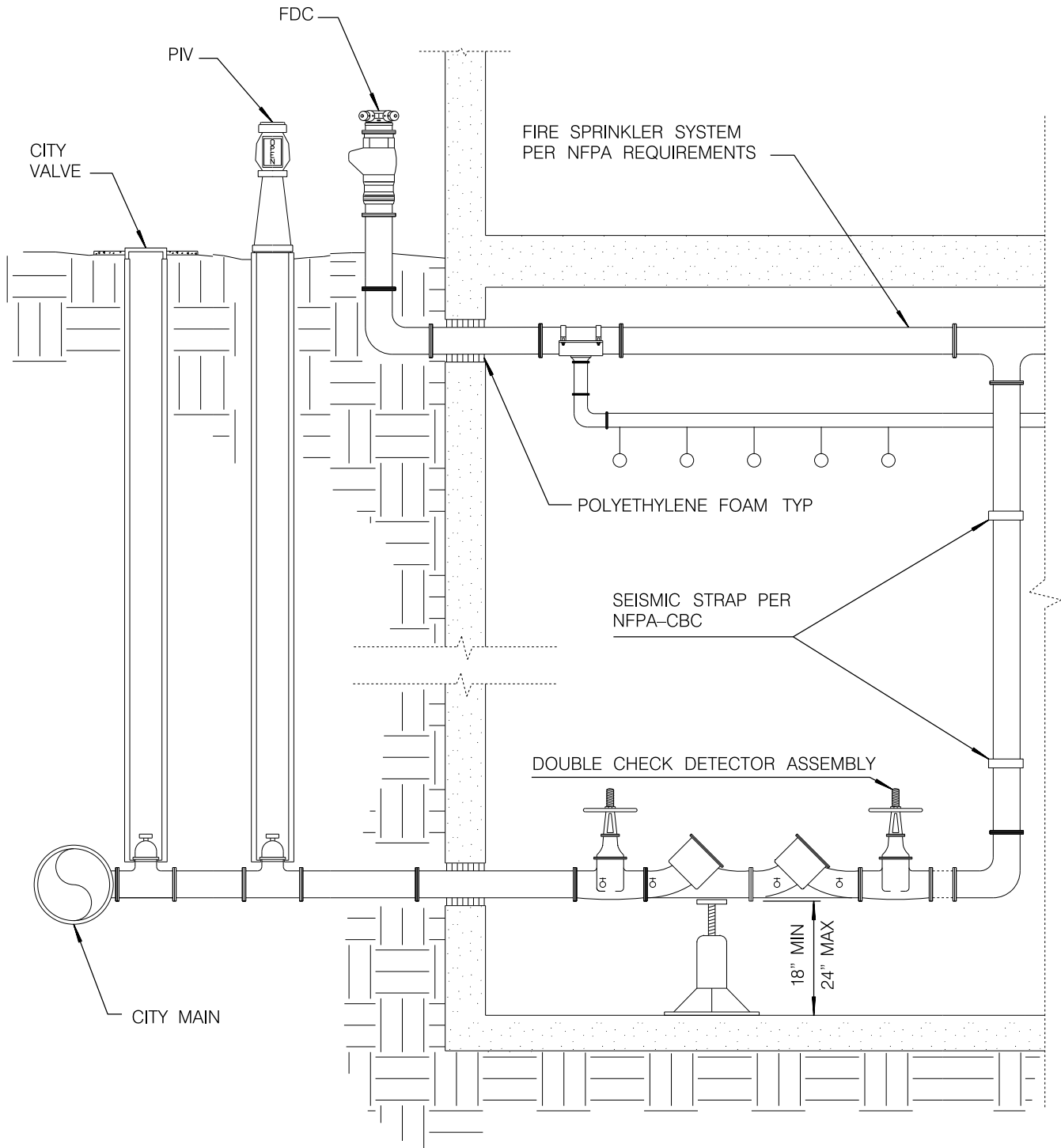
DRAWING NUMBER **SDW-119**

LETTER CODE	PART DESCRIPTION	METER SIZE				
		3"	4"	6"	8"	10"
A	GATE VALVE	8"	9"	10 1/2"	11 1/2"	1' - 1"
B	PIPE EXTENSION	1' - 0"	1' - 0"	1' - 0"	1' - 0"	1' - 0"
C	STRAINER *	7"	9"	9"	10"	1' - 0"
D	TURBINE WATER METER *	1' - 0"	1' - 2"	1' - 6"	1' - 9"	2' - 2"
E	COMPOUND METER *	1' - 5"	2' - 0"	2' - 5"	3' - 1"	4' - 7"
F	TESTING TEE	11"	1' - 1"	1' - 4"	1' - 6"	1' - 10"
G	90 DEG. ELBOW (SHORT)	5 1/2"	6 1/2"	8"	9"	11"
H	OVERALL SLAB LENGTH *	11' - 10"	12' - 11"	14' - 9"	16' - 3"	18' - 10"
I	SLAB TO CL PIPE	3' - 0"	3' - 0"	3' - 0"	3' - 0"	3' - 6"
J	BACKFLOW *	3' - 2"	3' - 4"	4' - 1/2"	4' - 4 1/2"	4' - 7 1/2"

* NOTES: INDIVIDUAL DIMENSIONS MAY VARY PER MANUFACTURER
OVERALL DIMENSIONS INCREASE WITH USE OF THESE COMPONENTS

SHEET 2 OF 2

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	JC				
REVISION	BM	A. OSKOUI	12/03	DUAL ABOVE GROUND METER AND BACKFLOW PREVENTION ASSEMBLIES	COORDINATOR R.C.E. 65271
NOTES	JS	A. OSKOUI	12/06		DATE 12/17/2012
UPDATED	KA	J. NAGELVOORT	01/12		DRAWING
UPDATED	KA	J. NAGELVOORT	12/12		NUMBER
					SDW-119



NOTES:

1. SEE SDW-120 FOR COMPLETE INSTALLATION REQUIREMENTS.
2. USED ONLY WITH PRIOR WRITTEN APPROVAL FROM PUBLIC UTILITIES DEPARTMENT.

REVISION	BY	APPROVED	DATE
ORIGINAL	MC	A. OSKOUI	8/06
NOTES	JS	A. OSKOUI	12/06
UPDATED	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

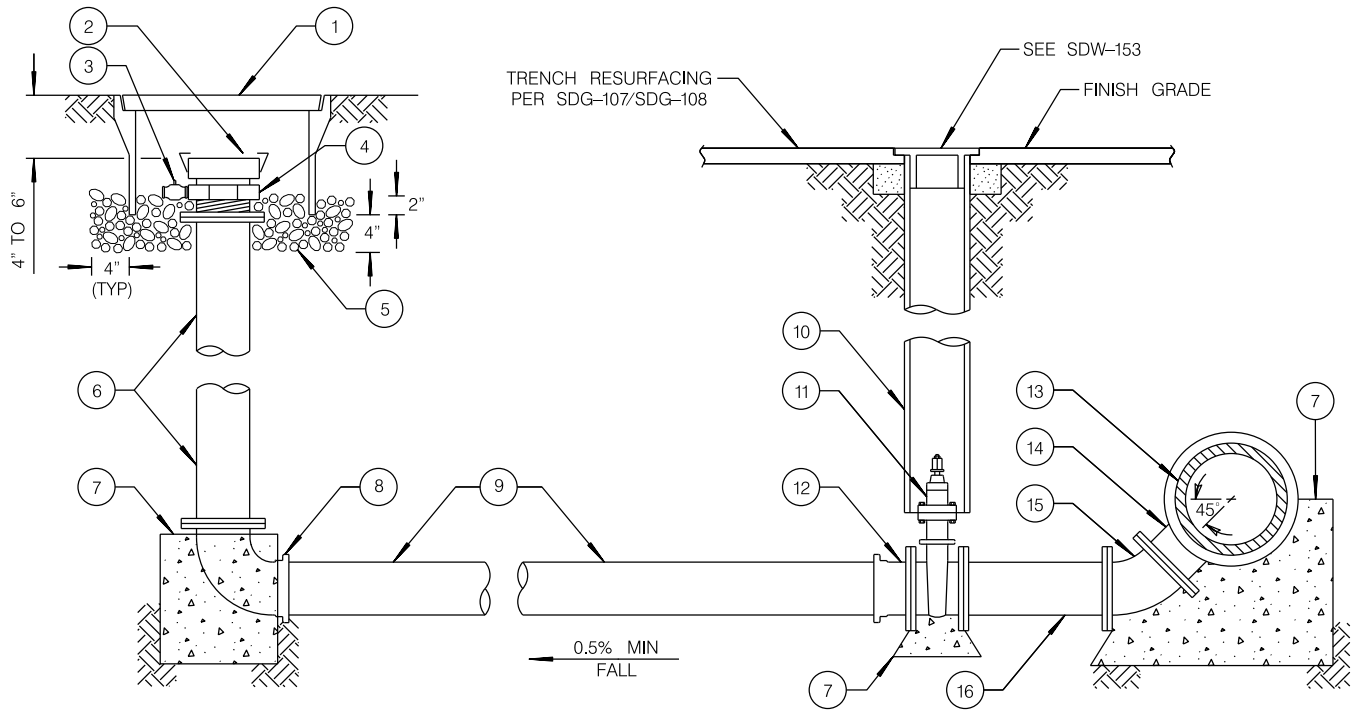
CITY OF SAN DIEGO – STANDARD DRAWING

**BACKFLOW PREVENTER
DOUBLE CHECK DETECTOR ASSEMBLY
FOR FIRE SERVICE 3" AND LARGER**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

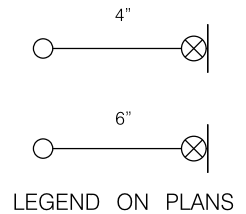
A. Hadli
COORDINATOR R.C.E. 65271 12/17/2012
DATE

DRAWING
NUMBER **SDW-141**



NOTES:

- 1) SET TOP OF METER BOX FLUSH WITH SIDEWALK, CURB OR FINISH GRADE
- 2) LOCATE METER BOX
- 3) INSTALL WARNING / IDENTIFICATION TAPE
- 4) FOR BLOW-OFF INSTALLATION AT END OF MAIN SEE OTHER STANDARD DRAWINGS
- 5) BLOW-OFF ASSEMBLIES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SPECIFICATIONS
- 6) 45° BEND SHALL BE USED FOR MAINS UP TO 30°. 90° BEND SHALL BE USED FOR MAINS IN EXCESS OF 30° AS DIRECTED BY THE ENGINEER
- 7) CAM & GROOVE ADAPTER SHALL BE DRILLED AND TAPPED AS REQUIRED FOR THE PRESSURE PET COCK



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	POLYMER METER BOX WITH LID 17" x 30", SEE NOTE 2	8	4" OR 6" FLG x MJPO 90° BEND
2	4" OR 6" CAM & GROOVE ADAPTER x MIPT WITH LOCKING DUST CAP, SEE NOTE 7	9	USE DUCTILE IRON OR PVC C900
3	1/4" PRESSURE PET COCK	10	VALVE WELL FRAME AND COVER (SEE SDW-153, SDW-154)
4	4" OR 6" FLANGED COMPANION x FIPT	11	4" OR 6" FLG x MJPOFLG RWGV
5	3/8" ROCK 4" TO 6" DEEP	12	4" OR 6" FLG x MJPO ADAPTER (IF REQUIRED)
6	4" OR 6" FLG DIPIPE x REQUIRED LENGTH (MAXIMUM OF 2 SPOOLS)	13	WATER MAIN
7	CONCRETE THRUST BLOCK SEE SDW-151	14	SIZE x 4" OR 6" MJPOFLG x FLG TEE
		15	4" OR 6" FLANGED 45° BEND
		16	4" OR 6" x 24" FLG DISPOOL

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

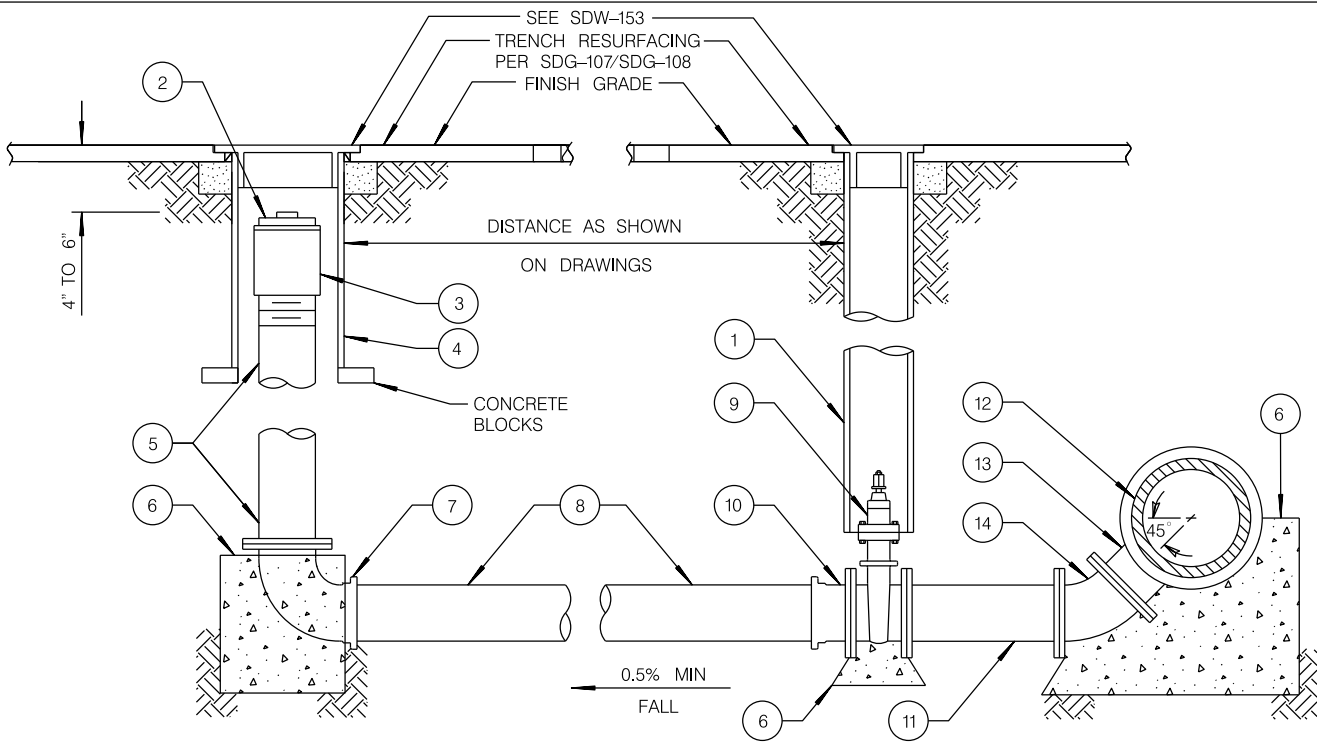
CITY OF SAN DIEGO – STANDARD DRAWING

**4" & 6" BLOW-OFF
INSTALLATION TYPE A**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

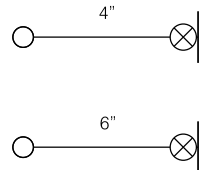
J. Nagelvoort
COORDINATOR R.C.E. 65271 DATE 12/17/2012

DRAWING NUMBER **SDW-144**




NOTES:

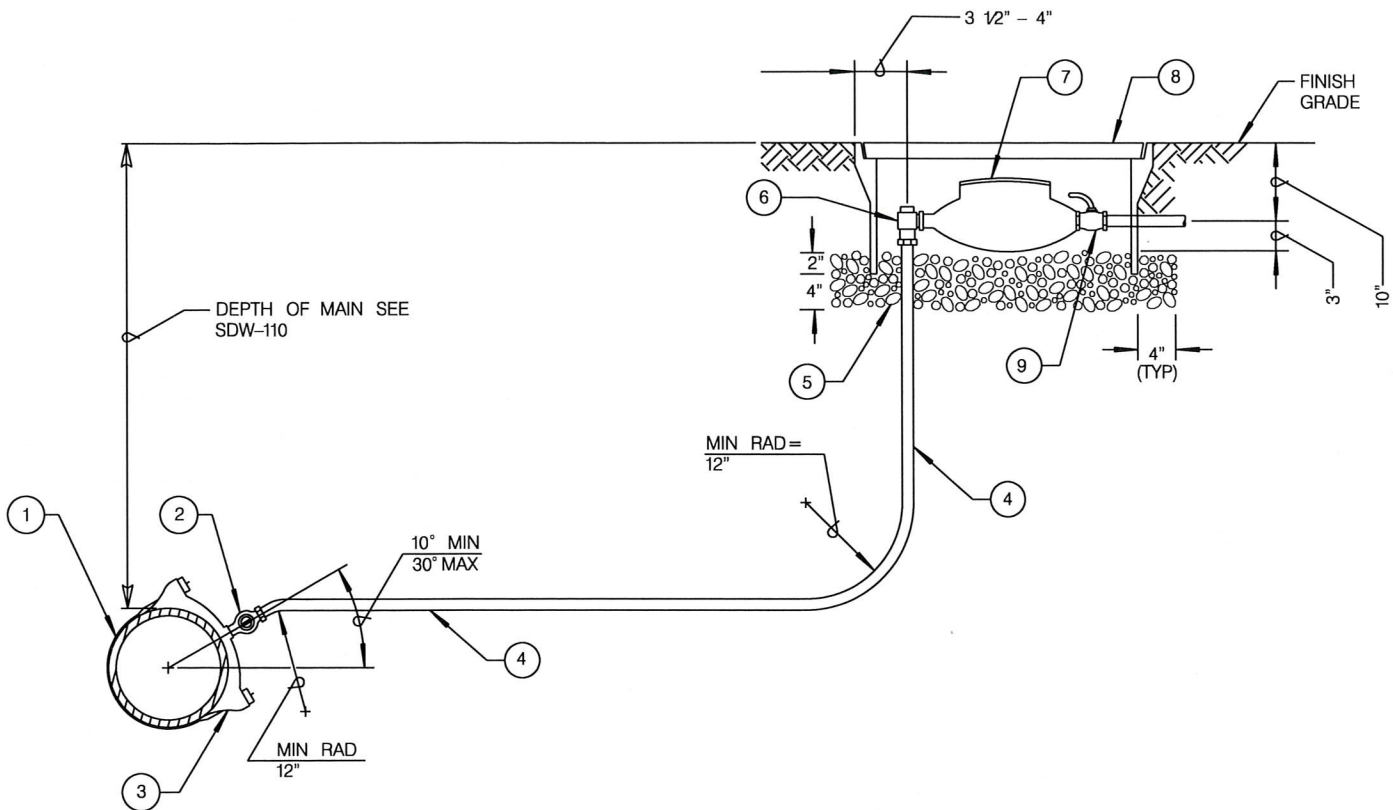
- 1) FOR BLOW-OFF INSTALLATION AT END OF MAIN SEE OTHER STANDARD DRAWINGS
- 2) BLOW-OFF ASSEMBLIES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SPECIFICATIONS
- 3) ON STEEL MAINS USE WELD ON COUPLINGS, ON DUCTILE IRON MAINS USE DUCTILE IRON SERVICE SADDLES (INSULATING BUSHINGS ARE REQUIRED)
- 4) 45° BEND SHALL BE USED FOR MAINS UP TO 30°. 90° BEND SHALL BE USED FOR MAINS IN EXCESS OF 30° AS DIRECTED BY THE ENGINEER



LEGEND ON PLANS

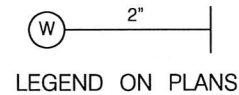
ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	GATE WELL WITH CAP SEE SDW-153 OR SDW-154	8	DUCTILE IRON OR C-900 PVC
2	GALVANIZED IRON PLUG	9	4" OR 6" FLG x MJ / PO / FLG RWGV
3	GALVANIZED IRON COUPLING, THREADED	10	4" OR 6" FLG x MJ / PO ADAPTER (IF REQUIRED)
4	10" STEEL GATE WELL WITH CAP	11	4" OR 6" x 24" FLG DISPOOL
5	4" OR 6" FLG DI PIPE x REQUIRED LENGTH (MAXIMUM OF 2 SPOOLS)	12	WATER MAIN
6	CONCRETE THRUST BLOCK SEE SDW-151	13	SIZE x 4" OR 6 MJ / PO / FLG x FLG TEE
7	FLANGE x FLANGE x 90° BEND	14	4" OR 6" FLANGED 45° BEND, SEE NOTE 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL*	KA	J. NAGELVOORT	01/12		
UPDATED	KA	J. NAGELVOORT	12/12		
4" & 6" BLOW-OFF INSTALLATION IN STREET TYPE B				 COORDINATOR R.C.E. 65271 DATE 12/17/2012	
				DRAWING NUMBER SDW-145	



NOTES:

- 1) INSTALL CORPORATION STOP WITH KEY IN THE SIDE POSITION
- 2) SET TOP OF METER BOX FLUSH WITH SIDEWALK, CURB, OR FINISH GRADE
- 3) LOCATE METER BOX
- 4) INSTALL WARNING / IDENTIFICATION TAPE
- 5) ONLY APPROVED BRASS MECHANICAL COUPLING DEVICES ALLOWED FOR TYPE K COPPER PIPE.
- 6) ON STEEL MAINS USE WELD ON COUPLINGS, ON DUCTILE IRON MAINS USE DUCTILE IRON SERVICE SADDLES (INSULATING BUSHINGS ARE REQUIRED)
- 7) TOP TAPS NOT PERMITTED.



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	WATER MAIN	6	2" BRONZE ANGLE METER STOP WITH LOCKWING
2	2" BRONZE CORPORATION STOP	7	WATER METER FURNISHED AND INSTALLED BY THE CITY
3	SIZE x 2" BRONZE SERVICE SADDLE DOUBLE STRAP	8	METER BOX WITH LID, #6: 35"x 21"
4	2" x REQUIRED LENGTH COPPER PIPE TYPE "K" SOFT/RIGID	9	CUSTOMER SHUT-OFF VALVE (LOCKABLE) FURNISH AND INSTALLED BY THE CITY
5	3/8" ROCK, 4" TO 6" DEEP		

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	2/13
UPDATED	KA	J. NAGELVOORT	3/13

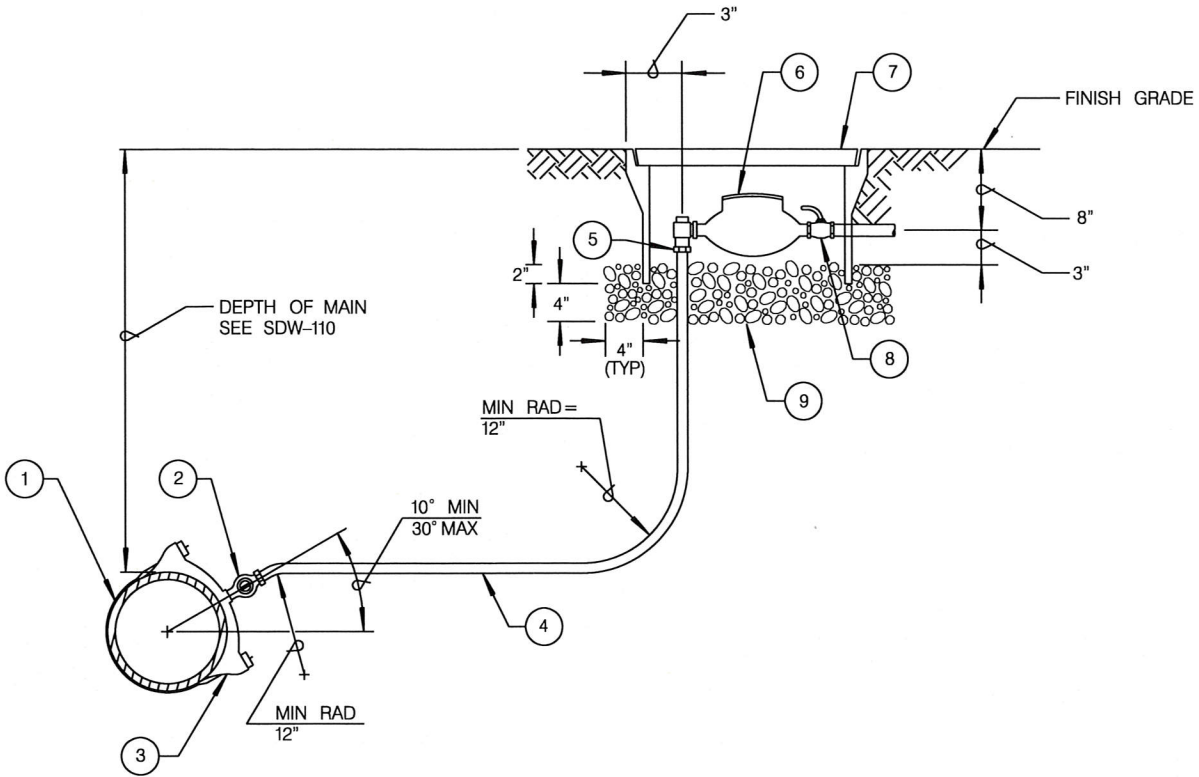
CITY OF SAN DIEGO - STANDARD DRAWING

2" WATER SERVICE INSTALLATION

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadli 30113
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-149**



NOTES:

- 1) INSTALL CORPORATION STOP WITH KEY IN THE SIDE POSITION
- 2) SET TOP OF METER BOX FLUSH WITH SIDEWALK, CURB, OR FINISH GRADE
- 3) LOCATE METER BOX
- 4) INSTALL WARNING / IDENTIFICATION TAPE
- 5) ONLY APPROVED BRASS MECHANICAL COUPLING DEVICES ALLOWED FOR TYPE K COPPER PIPE.
- 6) ON STEEL MAINS USE WELD ON COUPLINGS, ON DUCTILE IRON MAINS USE DUCTILE IRON SERVICE SADDLES (INSULATING BUSHINGS ARE REQUIRED)
- 7) BRONZE PIPE SADDLES ARE REQUIRED FOR ALL TAPS INTO POLYVINYL CHLORIDE (PVC) WATER MAIN. TOP TAPS ARE NOT PERMITTED.



LEGEND ON PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	WATER MAIN	6	WATER METER FURNISHED & INSTALLED BY THE CITY
2	1" BRONZE CORPORATION STOP	7	METER BOX WITH LID, #37: 28" x 18"
3	SIZE x 1" BRONZE SERVICE SADDLE DOUBLE STRAP	8	CUSTOMER SHUT-OFF VALVE (LOCKABLE) FURNISHED AND INSTALLED BY THE CITY
4	USE COPPER TUBING TYPE (K) SOFT FOR 1" SERVICES ONLY. NO INTERMEDIATE JOINTS PERMITTED WITHIN THE FIRST 60' FROM THE MAIN FOR LENGTHS LONGER THAN 60 FEET USE FLARE JOINT UNION OR LOK-PAC FITTINGS WITH LOCKING CLAMP AND STAINLESS STEEL BOLT ONLY. NO SWEAT JOINTS ARE ALLOWED	9	38" ROCK, 4" TO 6" DEEP
5	BRONZE ANGLE METER STOP WITH LOCKWING DEVICE AND METER COUPLING ATTACHED. "FURNISH AND INSTALL BRONZE PROPERTY VALVE. USE SPACER FOR METER"		

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	03/13

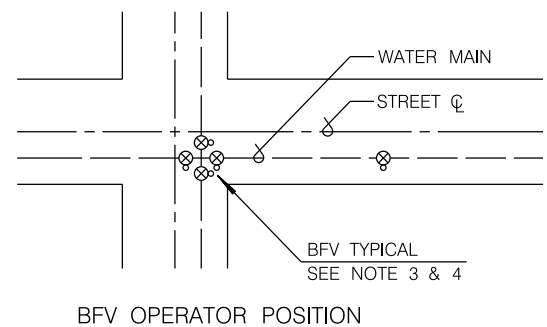
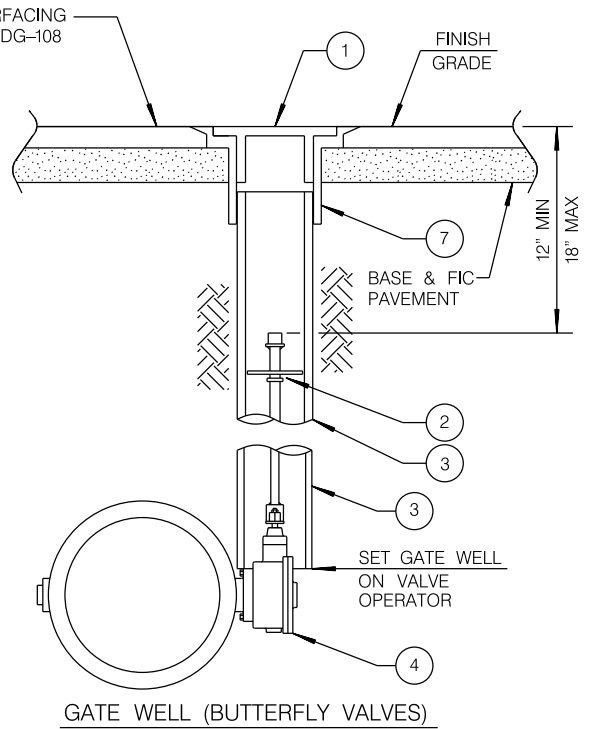
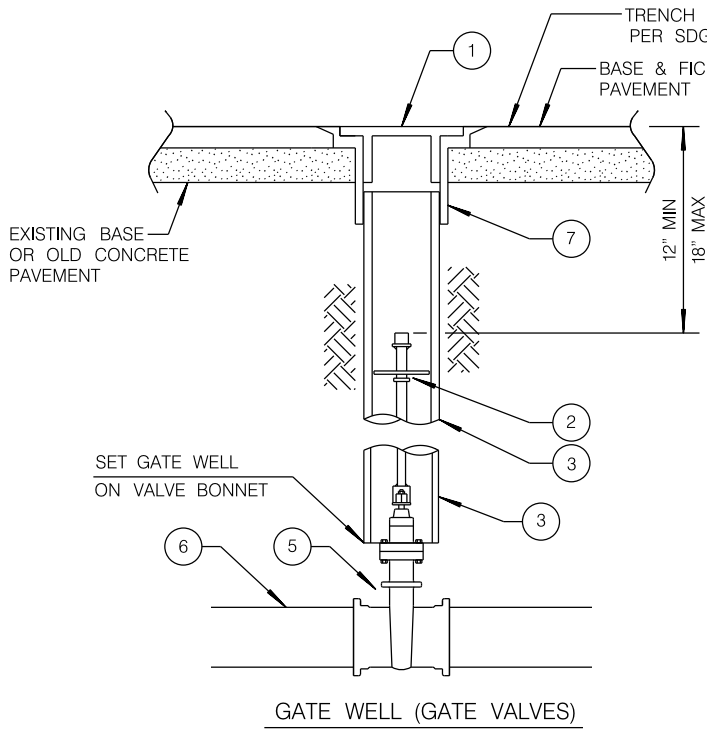
CITY OF SAN DIEGO - STANDARD DRAWING

1" WATER SERVICE INSTALLATION

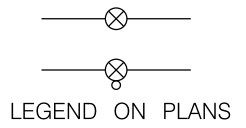
RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

D. Hadli 30113
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-150**

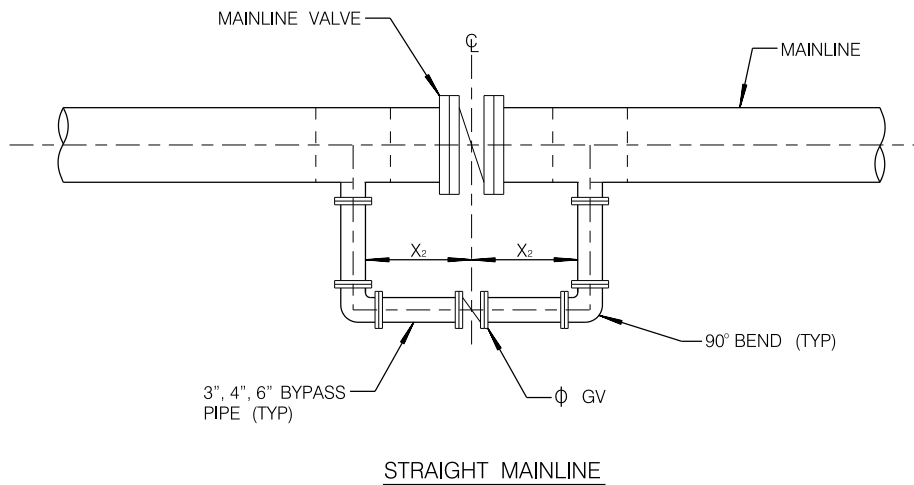
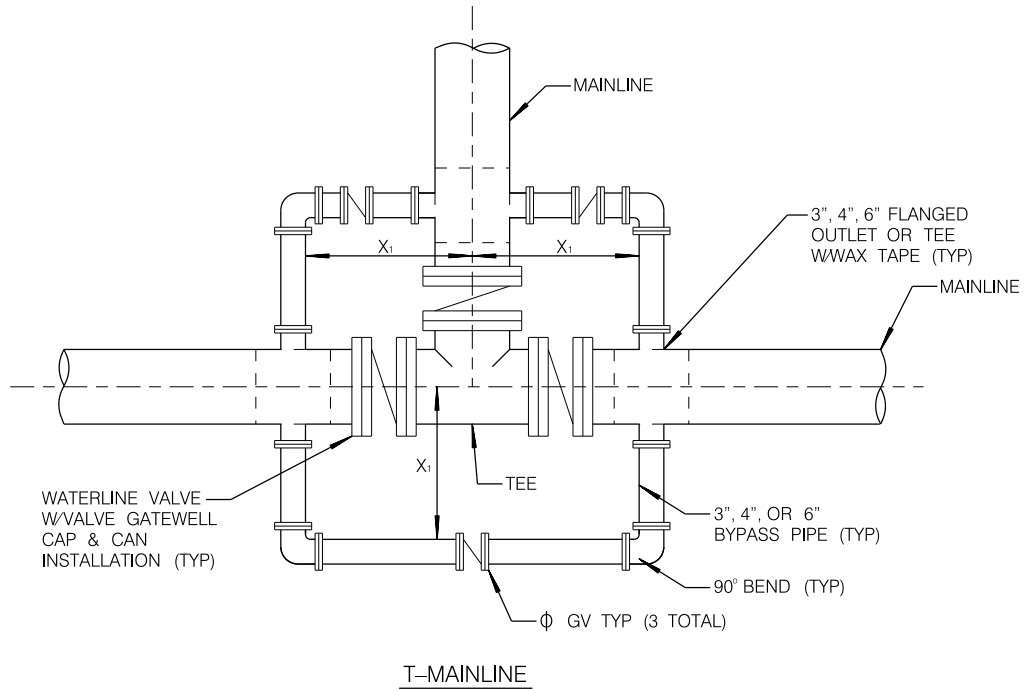


- NOTES:
- 1) VALVES DEEPER THAN 6' REQUIRE A VALVE STEM EXTENSION
 - 2) EXTENSION STEMS SHALL NOT BE ATTACHED/BOLTED TO OPERATING NUT
 - 3) GATE WELL AND CAP SHALL BE SET SO THAT NO MORE THAN TWO 1" ADJUSTMENT RINGS ARE USED
 - 4) BFV OPERATORS TO BE LOCATED TO THE CURBLINE SIDE OF WATER MAIN
 - 5) BFV'S INSTALLED AT CROSSES OR TEES REQUIRE A FLANGED DUCTILE IRON SPOOL TO BE INSTALLED BETWEEN THE FITTING AND VALVE IN ACCORDANCE WITH THE SPECIFICATIONS
 - 6) FOR INLINE VALVE ANCHOR BLOCK INSTALLATION
 - 7) VALVE WELL FRAME SHALL BE SET TO SLOPE OF STREET



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
①	GATE WELL WITH CAP	⑤	RESILIENT WEDGE GATE VALVE
②	VALVE STEM EXTENSION SEE NOTES 1 & 2	⑥	WATER MAIN
③	8" OD x 18" STEEL CASING x REQUIRED LENGTH GATE WELL SEE NOTE 6	⑦	18" THICK, 8 5/8" OD CAST IRON RISER RING PER SDRW-104
④	BUTTERFLY VALVE		

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE  12/17/2012 COORDINATOR R.C.E. 65271 DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12		
UPDATED	KA	J. NAGELVOORT	12/12		
GATE WELL CAP & CAN INSTALLATION FOR VALVES 4" AND LARGER				DRAWING NUMBER	SDW-153



NOTES:

1. BYPASS SHALL BE SAME CLASS AS MAINLINE PIPE.
2. THE VALVE SHALL BE THE SAME SIZE AS THE BYPASS PIPE.
3. SEE THE APPROVED WORKING DRAWINGS FOR X₁ AND X₂.

MAIN SIZE	BYPASS SIZE
16" TRANSMISSION	3"
> 16" AND = < 36"	4"
> 36"	6"

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	12/12

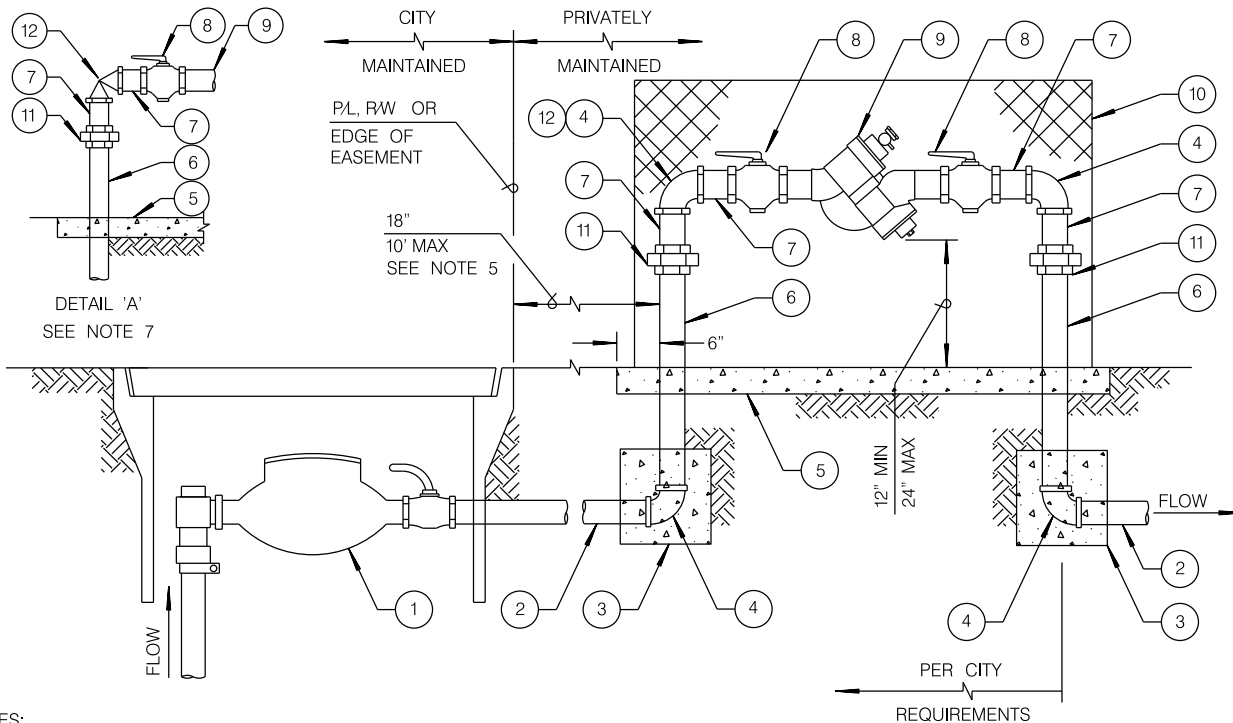
CITY OF SAN DIEGO – STANDARD DRAWING

**WATER VALVE BYPASS DETAILS
FOR MAINLINES 16" AND LARGER**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

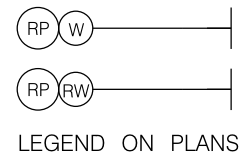
H. Hadli 12/17/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-154**



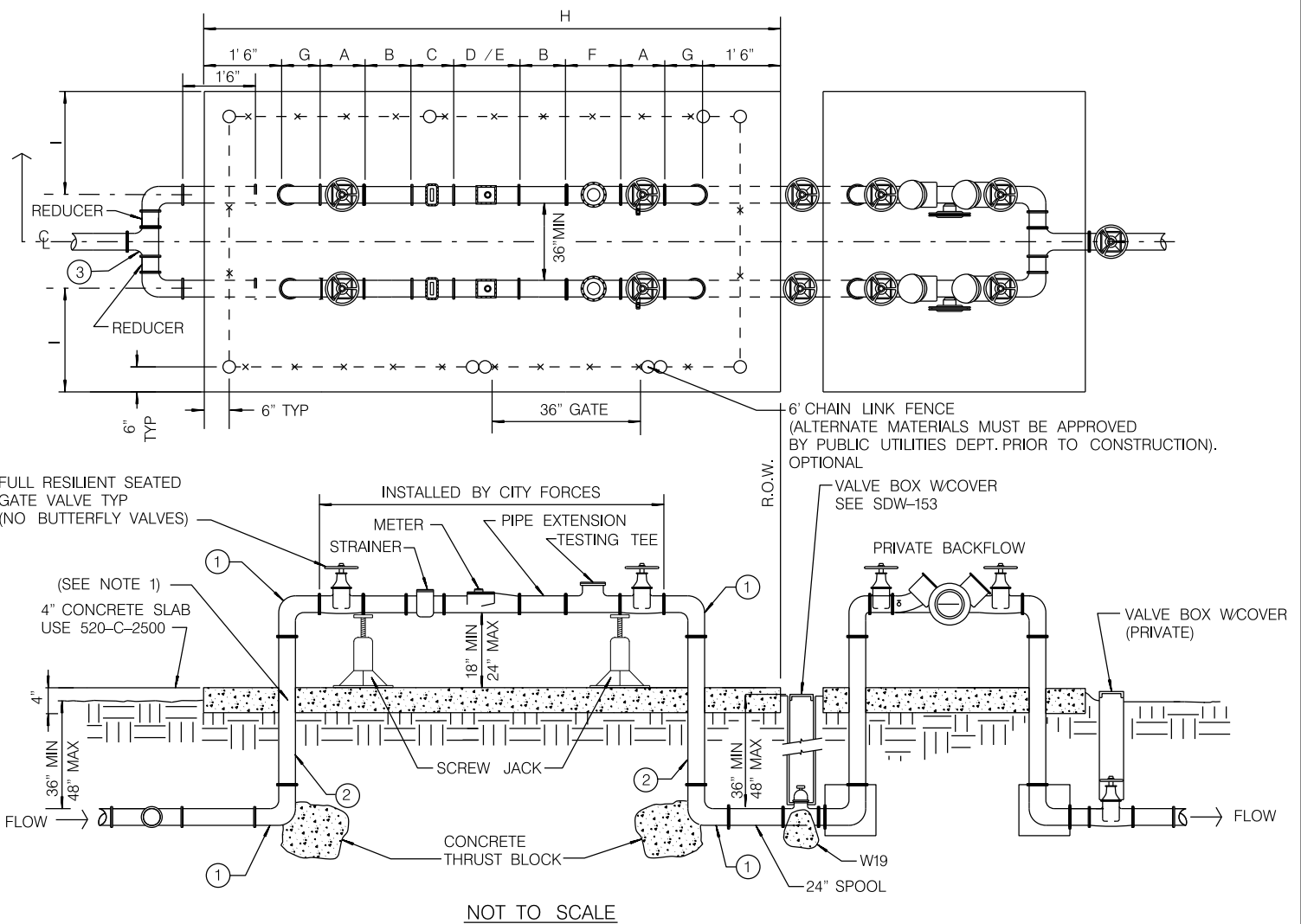
NOTES:

- 1) INSTALL WARNING/IDENTIFICATION TAPE.
- 2) LOCATE BACKFLOW PREVENTION DEVICE (BPD) IN SUCH A MANNER THAT WILL ALLOW THE DEVICE TO BE READILY ACCESSIBLE FOR INSPECTION AND REPAIR.
- 3) STRAINERS SHALL NOT BE INSTALLED PRIOR TO THE FIRST SHUT-OFF VALVE.
- 4) ALL ABOVE GROUND PIPING, UNIONS, ELBOWS, & NIPPLES SHALL BE SOLDERED OR THREADED BRASS.
- 5) INSTALL A CASING ENCASED IN CONCRETE WHEN THE DISTANCE BETWEEN THE METER BOX AND THE RISER TO THE BPD EXCEEDS 18". NO CONNECTIONS OF ANY KIND PERMITTED IN THIS AREA.
- 6) INSTALL A PRESSURE REDUCING VALVE UPSTREAM OF THE FIRST 90° ELL WHEN SYSTEM PRESSURE EXCEEDS 150 PSI.
- 7) TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SPECIFICATIONS PRIOR TO ACCEPTANCE.
- 8) BACKFLOW PREVENTION DEVICE & APPURTENANCES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SPECIFICATIONS.
- 9) LOCATION MUST BE APPROVED BY PUBLIC UTILITIES DEPARTMENT, CROSS CONNECTION CONTROL UNIT AND SHOWN ON THE PLANS.
- 10) ALL RISER ELBOWS AND UNDERGROUND PIPING SHALL BE TYPE (L) OR (M) COPPER, BRASS. PUBLIC UTILITIES DEPARTMENT APPROVED MATERIAL LIST BRASS UNIONS ARE ACCEPTABLE.



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	METER BOX & METER ASSEMBLY SEE SDW-149 & SDW-150	8	BALL VALVE "SHUT-OFF"
2	SCH 80 PVC, BRASS OR COPPER PIPE	9	REDUCED PRESSURE BACKFLOW DEVICE
3	CONCRETE THRUST BLOCK SEE SDW-151	10	ENCLOSURE (OPTIONAL)
4	90° BRASS ELL SEE NOTES 4 & 6	11	UNION SEE NOTE 4
5	CONCRETE SLAB, MINIMUM 4" THICK x 18" WIDE	12	PRV SEE NOTES 4 & 6
6	BRASS OR COPPER PIPE SEE NOTE 4		
7	3" LONG NIPPLE SEE NOTE 4		

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL*	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>
UPDATED	KA	J. NAGELVOORT	12/12	3/4" THRU 2" REDUCED PRESSURE BACKFLOW PREVENTION DEVICE	COORDINATOR R.C.E. 65271 DATE
					DRAWING NUMBER SDW-155



NOTES:

1. ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE COATED WITH A DIELECTRIC COATING. A LIQUID EPOXY COATING SYSTEM PER AWWA C-210 AT 24 MILS MINIMUM DRY FILM THICKNESS (MDFT), OR A COLD APPLIED THREE-PART SYSTEM PETROLEUM WAX TAPE PER AWWA C-217, OR A 100% POLYURETHANE COATING OF 24 MILS (MDFT) SUITABLE.
2. ANY CHANGES SHALL HAVE PUBLIC UTILITIES DEPARTMENT APPROVAL.
3. PIPING SHALL BE SYMMETRICAL TO SLAB CENTERLINE.
4. SUPPLY PIPE IS ONE COMMERCIAL SIZE LARGER THAN PROPOSED METER.
5. CONCRETE SLAB AND FENCE SHALL BE INSTALLED BY CONTRACTOR.
6. CONTACT CORROSION CONTROL SECTION FOR CORROSION REQUIREMENTS.
7. ALL METAL IN CONTACT WITH CONCRETE SHALL BE POLYETHYLENE WRAPPED USING 2" WIDE PLASTIC BACKED ADHESIVE TAPE 8 MILS THICK WITH 1/2" OVERLAP.
8. BACKFLOW SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM FROM METER UNLESS APPROVED BY THE CITY CROSS-CONNECTION SPECIALIST.
9. BACKFLOW PREVENTERS SHALL BE REDUCED PRESSURE PRINCIPLE (RP) ASSEMBLY. (INSTALLED ABOVE GRADE AS CLOSE TO METER AS POSSIBLE) BACKFLOW LOCATION MUST BE APPROVED BY THE CROSS-CONNECTION CONTROL SECTION OF THE PUBLIC UTILITIES DEPT.

ITEMS CALL OUT:

- ① 90° FLANGED DUCTILE IRON ELBOW (TYP).
- ② FLANGED DUCTILE IRON SPOOL, BOTH ENDS SHALL BE FLANGED (UNI-FLANGE SHALL NOT BE USED).
- ③ DIAMETER OF TEE SHALL BE EQUAL TO THE DIAMETER OF THE SUPPLY PIPE.

SHEET 1 OF 2

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	12/12		DUAL ABOVE GROUND METER WITH PRIVATE BACKFLOW
				DRAWING NUMBER SDW-157	


LTR. CODE	PART DESCRIPTION	METER SIZE				
		3"	4"	6"	8"	10"
A	GATE VALVE	8"	9"	10 1/2"	11 1/2"	1'-1"
B	PIPE EXTENSION	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
C	STRAINER *	7"	9"	9"	10"	1'-0"
D	TURBINE WATER METER *	1-0"	1-2"	1'-6"	1'-9"	2'-2"
E	COMPOUND METER *	1'-5"	2'-0"	2'-5"	3'-1"	4'-7"
F	TESTING TEE	11"	1'-1"	1'-4"	1'-6"	1'-10"
G	90 DEG. ELBOW (SHORT)	5 1/2"	6 1/2"	8"	9"	11"
H	OVERALL SLAB LENGTH *					
I	SLAB TO C/L PIPE	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"

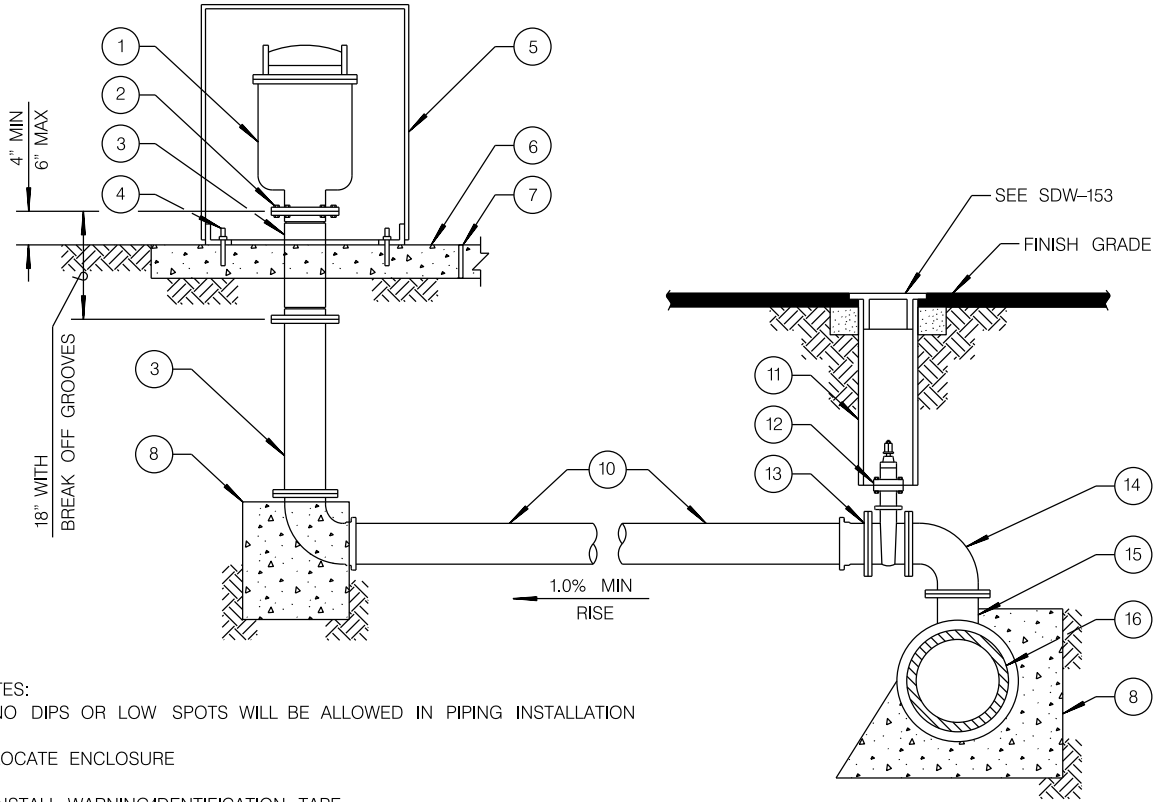
* NOTES:

INDIVIDUAL DIMENSIONS MAY VARY PER MANUFACTURER OVERALL DIMENSIONS INCREASE WITH USE OF THESE COMPONENTS

DIMENSION CHART FOR METER ASSEMBLIES

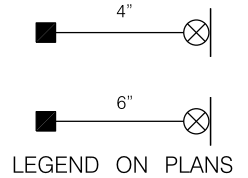
SHEET 2 OF 2

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL	KA	J. NAGELVOORT	12/12			12/17/2012
				DUAL ABOVE GROUND METER WITH PRIVATE BACKFLOW	COORDINATOR R.C.E. 65271 DATE	
					DRAWING NUMBER	SDW-157



NOTES:

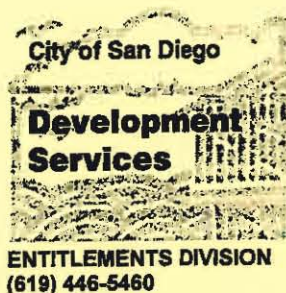
- 1) NO DIPS OR LOW SPOTS WILL BE ALLOWED IN PIPING INSTALLATION
- 2) LOCATE ENCLOSURE
- 3) INSTALL WARNING/IDENTIFICATION TAPE
- 4) BREAK-AWAY BOLTS SHALL BE 5/8" x 3" WITH 3/8" HOLE DRILLED IN THE SHAFT OF THE BOLT. INSTALL WITH HEX HEAD ON TOP OF THE FLANGE.
- 5) AIR & VACUUM VALVES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN SPECIFICATIONS



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
①	4" OR 6" AUTOMATIC COMBINATION AIR RELEASE & AIR/VACUUM VALVE ASSEMBLY	⑩	4" OR 6" C-900 PVC PIPE
②	BREAK-AWAY BOLTS, SEE NOTE 4	⑪	GATE WELL WITH CAP
③	4" OR 6" FLANGED 8-BOLT DUCTILE IRON PIPE x REQ'D LENGTH (MAX OF 2 SPOOLS)	⑫	4" OR 6" FLG x MJPO/FLG RWGV
④	5/8" x 3" STAINLESS STEEL DROP-IN ANCHORS (3 EA @ 120" APART)	⑬	4" OR 6" FLG x MJPO ADAPTER (IF REQUIRED)
⑤	VALVE ENCLOSURE	⑭	4" OR 6" FLANGE 90° BEND
⑥	42" x 42" x 6" THICK CONCRETE SLAB	⑮	SIZE x 4" OR 6" MJPO/FLG x FLG TEE
⑦	COLD JOINT STRIP	⑯	WATER MAIN
⑧	CONCRETE THRUST/ANCHOR BLOCK		
⑨	4" OR 6" FLG x MJPO 90° BEND		

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL*	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>
UPDATED	KA	J. NAGELVOORT	12/12	4" & 6" AUTOMATIC COMBINATION AIR RELEASE & AIR/VACUUM VALVE INSTALLATIONS	COORDINATOR R.C.E. 65271 DATE
					DRAWING NUMBER

Appendix J
Mitigated Negative Declaration



MITIGATED NEGATIVE DECLARATION

Project No. 255100
SCH No. 2011091045

SUBJECT: Citywide Pipeline Projects: COUNCIL APPROVAL to allow for the replacement, rehabilitation, relocation, point repair, new trenching, trenchless construction, and abandonment of water and/or sewer pipeline alignments and associated improvements such as curb ramps, sewer lateral connections, water service connections, manholes, new pavement/slurry, the removal and/or replacement of street trees and the removal and/or replacement of street lights. This environmental document covers the analysis for ~~five~~ four (4) near-term pipeline projects (Harbor Drive Pipeline, Water Group 949, ~~Sewer Group 787~~, Water Group 914, and Sewer/Water Group 732), as well as any subsequent future pipeline projects. The construction footprint for a typical pipeline project, including staging areas and other areas (such as access) would be located within the City of San Diego Public Right-of-Way (PROW) and/or within public easements and may include planned pipeline construction within private easements from the PROW to the service connection. A signed agreement between the City and the property owner would be required for work conducted on private property. Project types that would be included in the analysis contained herein would consist of sewer and water group jobs, trunk sewers, large diameter water pipeline projects, new and/or replacement manholes, new/or replacement fire hydrants, and other necessary appurtenances. All associated equipment would be staged within the existing PROW adjacent to the work areas. The near-term and future projects covered in the document would not impact *Sensitive Biological Resources* or *Environmentally Sensitive Lands (ESL)* as defined in the Land Development Code and would not encroach into the City's Multi-Habitat Planning Area (MHPA). Applicant: The City of San Diego Engineering and Capital Projects Department AND Public Utilities Department.

Update 10/20/2011

Revisions to this document have been made when compared to the Draft Mitigated Negative Declaration (DMND) dated September 9, 2011. In response to the Comment Letter received from The California Department of Fish and Game, further description and graphics of Water Group 949 as it relates to the MHPA has been added to the Final MND. Please note that Sewer Group 787, which is adjacent to the MHPA, has been removed from the project description and is no longer covered in this MND.

The modifications to the FMND are denoted by ~~strikeout~~ and underline format. In accordance with the California Environmental Quality Act, Section 15073.5 (c)(4), the addition of new information that clarifies, amplifies, or makes insignificant modification does not require recirculation as there are no new impacts and no new mitigation identified. An environmental document need only be recirculated when there is identification of new significant environmental impact or the addition of a new mitigation measure required to avoid a significant environmental impact. The addition

of corrected mitigation language within the environmental document does not affect the environmental analysis or conclusions of the MND.

Construction for the near-term and any future projects is anticipated to occur during the daytime hours Monday through Friday, but may occur during the weekend, if necessary. The contractor would comply with all applicable requirements described in the latest edition of the *Standard Specifications for Public Works Construction ("GREENBOOK")* and the latest edition of the *City of San Diego Standard Specifications for Public Works Construction ("WHITEBOOK")*. The City's supplement addresses unique circumstances to the City of San Diego that are not addressed in the GREENBOOK and would therefore take precedence in the event of a conflict. The contractor would also comply with the California Department of Transportation *Manual of Traffic Controls for Construction and Maintenance Work Zones*. If the Average Daily Traffic (ADT) within a given project(s) vicinity is 10,000 ADT or greater, 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*. For proposals subject to 10,000 ADT or less, traffic control may be managed through shop drawings during construction. Construction methods to be employed would consist of, but not be limited to:

Open Trenching: The open trench method of construction would be used for complete replacement and new alignment portions of the project. Trenches are typically four feet wide and are dug with excavations and similar large construction equipment.

Rehabilitation: Rehabilitation of alignment involves installing a new lining in old pipelines. The insertion is done through existing manhole access points and does not require removal of pavement or excavation of soils.

Abandonment: Pipeline abandonment activities would be similar to rehabilitation methods in that no surface/subsurface disturbance would occur. This process may involve slurry or grout material injected into the abandoned lines via manhole access. The top portion of the manhole is then typically removed and the remaining space backfilled and paved over.

Potholing: Potholing would be used to verify reconnection of laterals to main where lines would be raised or realigned (higher than existing depth, but still below ground) or to verify utility crossings. These "potholes" are made by using vacuum type equipment to open up small holes into the street of pavement.

Point Repairs: Point repairs include replacing a portion of a pipe segment by open trench excavation methods in which localized structural defects have been identified. Generally, point repairs are confined to an eight-foot section of pipe.

The following near term project(s) have been reviewed by the City of San Diego, Development Services Department (DSD) for compliance with the Land Development Code and have been determined to be exempt from a Site Development Permit (SDP) and/or a Coastal Development Permit (CDP). These projects would involve excavation in areas having a high resource sensitivity and potential for encountering archaeological and paleontological resources during construction related activities. Therefore, mitigation would be required to reduce potential significant impacts to archaeological and paleontological resources to below a level of significance. With respect to Storm Water, all projects would be reviewed for compliance with the City's Storm Water Standards

Manual. All projects that are not-exempt from the Standard Urban Storm Water Mitigation Plan (SUSMP) would incorporate appropriate Permanent Best Management Practices (BMPs) and construction BMPs into the project design(s) and during construction, as required. As such, all projects would comply with the requirement of the Municipal Storm Water Permit.

HARBOR DRIVE PIPELINE (PROJECT NO. 206100)

The Harbor Drive Pipeline includes the replacement of 4.4 miles of 16-inch cast iron (CI) and asbestos cement (AC) pipe that comprises the Harbor Drive 1st and 2nd Pipelines (HD-1 and HD-2) at a depth no greater than five (5) feet. Facility age and cast iron main replacement are the primary drivers for these projects, but due to the history of AC breaks in the area, approximately 1.0 mile of AC replacement is also included. The project is anticipated to be awarded in Fiscal Year 2013.

HD-1 and HD-2 were built primarily in the 1940's and 1950's and were made out of cast iron or asbestos cement and serve the western most part of the University Heights 390 Zone and the northern section of the Point Loma East 260 Zone. The pipelines also serve as redundancy to each other. Several segments were replaced by various City of San Diego Public Utilities Department projects throughout the years and those segments are not a part of the current scope. Previously replaced segments were 16 inch PVC, except for the bridge crossing which used 24-inch CMLC. The pipeline is located entirely within the PROW, will not require any easements, and is not adjacent to the MHPA or located within any designated historical districts. The following streets would be affected by this project: West Laurel, Pacific Highway, North Harbor Drive (within the roadway, under the bridge and within landscape areas), Nimitz Boulevard, Rosecrans Street, Evergreen Street, Hugo Street, Locust Street, Canon Street, Avenida De Portugal, and Point Loma Avenue.

Mitigation for the Harbor Drive Pipeline: Historical Resources (Archaeological Monitoring)

WATER GROUP 949 (PROJECT NO. 232719)

Water Group 949 would consist of the replacement and installation of 5.27 miles of water mains within the Skyline- Paradise Hills, University, Clairemont Mesa, Southeastern San Diego (Greater Golden Hills) community planning areas. 16,931 Linear Feet (LF) of 16-inch cast iron water mains would be replace-in-place with new 16-inch polyvinyl chloride (PVC) pipe within the existing trench. The remaining 10,913 LF of new 16-inch PVC would be installed in new trenches. All work within Regents Road, Site 2 (Figure 8), adjacent to the MHPA would only occur within the developed footprint such as the paved right of way, and concrete sidewalk or slab areas. In addition, all work within 100 feet of the MHPA would observe mitigation such as but not limited to, bird breeding season measures, avoidance of discharge into the MHPA, and avoidance of direct lighting towards the MHPA areas. As such, no impacts to MHPA and/or sensitive resources would occur. The project would also include replacement and reinstallation of valves, water services, fire hydrants, and other appurtenances and would also included the construction of curb ramps, and street resurfacing. Traffic control measures and Best Management Practices (BMPs) would be implemented during construction. Any street tree removal, relocation, and/or trimming would be done under the supervision of the City Arborist. All staging of construction equipment will be located outside of any potentially sensitive areas. The following streets and nearby alleyways would be affected by this project: Tuther Way, Cielo Drive, Woodman Street, Skyline Drive, Regents Road, Hidalgo Avenue, Clairemont Mesa Boulevard, Luna Avenue, B Street, F Street, Ash Street, 25th Street, and 27th Street.

Mitigation Required for Water Group 949: This project would require the implementation of MHPA Land Use Adjacency Guidelines in the University and Clairemont Mesa Community Planning areas that are adjacent (within 100 feet) to the MHPA and Historical Resources (Built Environment) mitigation for the area of the project located within the Greater Golden Hill Historic District.

SEWER GROUP 787 (PROJECT NO. 231928)

~~Sewer Group 787 would consist of the replacement of 26,436 lineal feet (LF) of existing 16-inch east iron sewer pipe with new 16-inch polyvinyl chloride (PVC) pipe within the existing trench. A total of 1,267 LF of new 16-inch PVC sewer alignment would be installed in new trenches. In addition, the project would abandon 1,606 LF of existing 16-inch cast iron pipe. The proposed project would be installed by conventional excavation (open trench) in trenches from 3-5 feet deep. The project would affect the following streets and nearby alleyways: 42nd Street, Monroe Avenue, Edgware Road, Polk Avenue, Orange Avenue, Menlo Avenue, 47th Street, Dwight Street, Myrtle Avenue, Manzanita Place, Heather Street, Dahlia Street, Poplar Street, Columbine Street, Pepper Drive, Juniper Street, Marigold Street, Sumac Drive, 44th Street, Laurie Lane, and Roseview Place all within the City Heights and Kensington-Talmadge Community Planning Areas.~~

~~**Mitigation Required for Water Group 787: This project would require the implementation of MHPA Land Use Adjacency Guidelines in the City Heights and Kensington-Talmadge Community Planning areas that are adjacent (within 100 feet) to the MHPA, Historical Resources (Archaeological and Paleontological Monitoring).**~~

WATER GROUP 914 (PROJECT NO. 233447)

Water Group 914 would consist of the replacement and installation of approximately 21,729 lineal feet (LF) of existing 6-inch, 8-inch and 12-inch cast iron pipes and 6-inch asphalt concrete pipes with new 8-inch, 12-inch and 16-inch polyvinyl chloride (PVC) pipe. Also included would be the construction of two underground pressure regulator stations that measure 54 square-feet and 6.5 feet deep each. 17,472 LF would be located in existing trenches and 4,257 LF would be located in new trench lines. The proposed project would be installed by conventional excavation (open trench) in trenches from 3-5 feet deep. However two 300 LF parallel line sections (600 LF total) of the water alignment would be installed by trenchless methodology utilizing two (2) 40 square foot launch and receiver pits. The trenchless installation would occur at the intersection of Coronado Avenue and Ebers Street and is designed to avoid a recorded archaeological resource at this intersection. The trenchless methodology would employ directional underground boring that would install the pipe at a depth deeper than the recorded resource. In addition, a 4-inch AC water segment of approximately 520 LF located along Point Loma Avenue between Guizot Street and Santa Barbara Street will be abandoned in place. The project would affect the following streets and nearby alleyways: Point Loma Avenue, Santa Barbara Street, Bermuda Avenue, Pescadero Avenue, Cable Street, Orchard Avenue, Froude Street, Sunset Cliffs Boulevard, Savoy Circle, and Del Monte Avenue all within the Ocean Beach and Peninsula Community Planning Areas.

Mitigation for Water Group 914: Historical Resources (Archaeological Monitoring) and (Built Environment)

SEWER AND WATER GROUP 732 (PROJECT NO. 206610)

Sewer and Water Group Job 732 would consist of the installation of approximately 5,500 total linear feet (LF) of 8 inch Polyvinyl Chloride (PVC) sewer pipe, and approximately 3,000 total linear feet (LF) of 12 inch PVC water pipe. Approximately, 1,035 LF of water pipe would be rehabilitated using trenchless technology in the same trench, with the remainder of the installation accomplished through open trenching. Related work would include construction of new manholes, replacement and re-plumbing of sewer laterals, installation of curb ramps, pavement restoration, traffic control, and storm water best management practices. Construction of the project would affect portions of the following streets and adjacent alleys in the Peninsula Community Plan area: Xenophon Street, Yonge Street, Zola Street, Alcott Street, Browning Street, Plum Street, Willow Street, Evergreen Street, Locust Street, and Rosecrans Street.

Mitigation Required for Sewer and Water Group 732: Historical Resources (Archaeological and Paleontological Monitoring).**SUBSEQUENT PIPELINE PROJECT REVIEW (LONG TERM)**

Applications for the replacement, rehabilitation, relocation, point repair, open trenching and abandonment of water and/or sewer pipeline alignments within the City of San Diego PROW as indicated in the Subject block above and in the Project Description discussion of the Initial Study would be analyzed for potential environmental impacts to Historical Resources (Archaeology, Paleontology and the Built Environment) and Land Use (MSCP/MHPA), and reviewed for consistency with this Mitigated Negative Declaration (MND). Where it can be determined that the project is "consistent" with this MND and no additional potential significant impacts would occur pursuant to State CEQA Guideline § 15162 (i.e. the involvement of new significant environmental effects of a substantial increase in the severity of previously identified effects) or if the project would result in minor technical changes or additions, then an Addendum to this MND would be prepared pursuant to §15164. Where future projects are found not to be consistent with this MND, then a new Initial Study and project specific MND shall be prepared.

- I. PROJECT DESCRIPTION: See attached Initial Study.
- II. ENVIRONMENTAL SETTING: See attached Initial Study.
- III. DETERMINATION:

The City of San Diego conducted an Initial Study which determined that the near term projects and any future subsequent projects could have a significant environmental effect in the following areas(s): Land Use (MSCP/MHPA Land Use Adjacency), Historical Resources (Built Environment), Historical Resources (Archaeology) and Paleontology. When subsequent projects are submitted to DSD, the Environmental Analysis Section (EAS) will determine which of the project specific mitigation measures listed in Section V. would apply. Subsequent revisions in the project proposal create the specific mitigation identified in Section V of this Mitigated Negative Declaration. Projects as revised now avoid or mitigate the potentially significant environmental effects previously identified, and the preparation of an Environmental Impact Report will not be required.

IV. DOCUMENTATION:

The attached Initial Study documents the reasons to support the above Determination.

V. MITIGATION, MONITORING AND REPORTING PROGRAM (MMRP):

A. GENERAL REQUIREMENTS – PART I

Plan Check Phase (prior to permit issuance)

1. Prior to 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 as necessary:

Biologist, Archaeologist, Native American Monitor, Historian and Paleontologist

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) No. 255100, or for subsequent future projects the associated PTS No, 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 as applicable.
- 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

<i>Issue Area</i>	<i>Document submittal</i>	<i>Associated Inspection/Approvals/Note</i>
General	Consultant Qualification Letters	Prior to Pre-construction Mtg.
General	Consultant Const. Monitoring	Prior to or at Pre-Construction Mtg.
Biology	Biology Reports	Limit of Work Verification
Historical	Historical Reports	Historical observation (built envirnmt)
Archaeology	Archaeology Reports	Archaeology observation
Paleontology	Paleontology Reports	Paleontology observation
Final MMRP		Final MMRP Inspection

SPECIFIC MMRP ISSUE AREA CONDITIONS/REQUIREMENTS:

A. LAND USE [MULTIPLE SPECIES CONSERVATION PROGRAM (MSCP) For PROJECTS WITHIN 100 FEET OF THE MHPA]

I. Prior to Permit Issuance

- A. Prior to issuance of any construction permit, the DSD Environmental Designee (ED) shall verify the Applicant has accurately represented the project's design in the Construction Documents (CDs) that are in conformance with the associated discretionary permit conditions and Exhibit "A", and also the City's Multi-Species Conservation Program (MSCP) Land Use Adjacency Guidelines for the Multiple Habitat Planning Area (MHPA), including identifying adjacency as the potential for direct/indirect impacts where applicable. In addition, all CDs where applicable shall show the following:
1. **Land Development / Grading / Boundaries** –MHPA boundaries on-site and adjacent properties shall be delineated on the CDs. The ED shall ensure that all grading is included within the development footprint, specifically manufactured slopes, disturbance, and development within or adjacent to the MHPA..
 2. **Drainage / Toxins** –All new and proposed parking lots and developed area in and adjacent to the MHPA shall be designed so they do not drain directly into the MHPA, All developed and paved areas must prevent the release of toxins, chemicals, petroleum products, exotic plant materials prior to release by incorporating the use of filtration devices, planted swales and/or planted detention/desiltation basins, or other approved permanent methods that are designed to minimize negative impacts, such as excessive water and toxins into the ecosystems of the MHPA.
 3. **Staging/storage, equipment maintenance, and trash** –All areas for staging, storage of equipment and materials, trash, equipment maintenance, and other construction related activities are within the development footprint. Provide a note on the plans that states: *"All construction related activity that may have potential for leakage or intrusion shall be monitored by the Qualified Biologist/Owners Representative to ensure there is no impact to the MHPA."*
 4. **Barriers** –All new development within or adjacent to the MHPA shall provide fencing or other City approved barriers along the MHPA boundaries to direct public access to appropriate locations, to reduce domestic animal predation, and to direct wildlife to appropriate corridor crossing. Permanent barriers may include, but are not limited to, fencing (6-foot black vinyl coated chain link or equivalent), walls, rocks/boulders, vegetated buffers, and signage for access, litter, and educational purposes.
 5. **Lighting** – All building, site, and landscape lighting adjacent to the MHPA shall be directed away from the preserve using proper placement and adequate shielding to protect sensitive habitat. Where necessary, light from traffic or other incompatible uses, shall be shielded from the MHPA through the utilization of including, but not limited to, earth berms, fences, and/or plant material.
 6. **Invasive Plants** – Plant species within 100 feet of the MHPA shall comply with the Landscape Regulations (LDC142.0400 and per table 142-04F, Revegetation and Irrigation Requirements) and be non invasive. Landscape plans shall include a note that states: *"The ongoing maintenance requirements of the property owner shall*

prohibit the use of any planting that are invasive, per City Regulations, Standards, guidelines, etc., within 100 feet of the MHPA."

7. **Brush Management** –All new development adjacent to the MHPA is set back from the MHPA to provide the required Brush Management Zone (BMZ) 1 area (LDC Sec. 142.0412) within the development area and outside of the MHPA. BMZ 2 may be located within the MHPA and the BMZ 2 management shall be the responsibility of a HOA or other private entity.
8. **Noise-** Due to the site's location adjacent to or within the MHPA, construction noise that exceeds the maximum levels allowed shall be avoided, during the breeding seasons for protected avian species such as: *California Gnatcatcher (3/1-8/15)*; *Least Bell's vireo (3/15-9/15)*; and *Southwestern Willow Flycatcher (5/1-8/30)*. If construction is proposed during the breeding season for the species, U.S. Fish and Wildlife Service protocol surveys shall be required in order to determine species presence/absence. When applicable, adequate noise reduction measures shall be incorporated. Upon project submittal EAS shall determine which of the following project specific avian protocol surveys shall be required.

COASTAL CALIFORNIA GNATCATCHER

NO CLEARING, GRUBBING, GRADING, OR OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR BETWEEN MARCH 1 AND AUGUST 15, THE BREEDING SEASON OF THE COASTAL CALIFORNIA GNATCATCHER, UNTIL THE FOLLOWING REQUIREMENTS HAVE BEEN MET TO THE SATISFACTION OF THE CITY MANAGER:

- a. A QUALIFIED BIOLOGIST (POSSESSING A VALID ENDANGERED SPECIES ACT SECTION 10(a)(1)(A) RECOVERY PERMIT) SHALL SURVEY THOSE HABITAT AREAS ~~WITHIN~~ ADJACENT TO THE MHPA THAT WOULD BE SUBJECT TO CONSTRUCTION NOISE LEVELS EXCEEDING 60 DECIBELS [dB(A)] HOURLY AVERAGE FOR THE PRESENCE OF THE COASTAL CALIFORNIA GNATCATCHER. SURVEYS FOR THE COASTAL CALIFORNIA GNATCATCHER SHALL BE CONDUCTED PURSUANT TO THE PROTOCOL SURVEY GUIDELINES ESTABLISHED BY THE U.S. FISH AND WILDLIFE SERVICE WITHIN THE BREEDING SEASON PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. IF GNATCATCHERS ARE PRESENT, THEN THE FOLLOWING CONDITIONS MUST BE MET:

BETWEEN MARCH 1 AND AUGUST 15, NO CLEARING, GRUBBING, OR GRADING OF OCCUPIED GNATCATCHER HABITAT SHALL BE PERMITTED. AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; AND

1. BETWEEN MARCH 1 AND AUGUST 15, NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN ANY PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES WOULD RESULT IN NOISE LEVELS EXCEEDING 60 dB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED GNATCATCHER HABITAT. AN ANALYSIS SHOWING THAT NOISE GENERATED BY CONSTRUCTION

ACTIVITIES WOULD NOT EXCEED 60 dB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED HABITAT MUST BE COMPLETED BY A QUALIFIED ACOUSTICIAN (POSSESSING CURRENT NOISE ENGINEER LICENSE OR REGISTRATION WITH MONITORING NOISE LEVEL EXPERIENCE WITH LISTED ANIMAL SPECIES) AND APPROVED BY THE CITY MANAGER AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES DURING THE BREEDING SEASON, AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; OR

2. AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, UNDER THE DIRECTION OF A QUALIFIED ACOUSTICIAN, NOISE ATTENUATION MEASURES (e.g., BERMS, WALLS) SHALL BE IMPLEMENTED TO ENSURE THAT NOISE LEVELS RESULTING FROM CONSTRUCTION ACTIVITIES WILL NOT EXCEED 60 dB(A) HOURLY AVERAGE AT THE EDGE OF HABITAT OCCUPIED BY THE COASTAL CALIFORNIA GNATCATCHER. CONCURRENT WITH THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND THE CONSTRUCTION OF NECESSARY NOISE ATTENUATION FACILITIES, NOISE MONITORING* SHALL BE CONDUCTED AT THE EDGE OF THE OCCUPIED HABITAT AREA TO ENSURE THAT NOISE LEVELS DO NOT EXCEED 60 dB(A) HOURLY AVERAGE. IF THE NOISE ATTENUATION TECHNIQUES IMPLEMENTED ARE DETERMINED TO BE INADEQUATE BY THE QUALIFIED ACOUSTICIAN OR BIOLOGIST, THEN THE ASSOCIATED CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL SUCH TIME THAT ADEQUATE NOISE ATTENUATION IS ACHIEVED OR UNTIL THE END OF THE BREEDING SEASON (AUGUST 16).

* Construction noise monitoring shall continue to be monitored at least twice weekly on varying days, or more frequently depending on the construction activity, to verify that noise levels at the edge of occupied habitat are maintained below 60 dB(A) hourly average or to the ambient noise level if it already exceeds 60 dB(A) hourly average. If not, other measures shall be implemented in consultation with the biologist and the City Manager, as necessary, to reduce noise levels to below 60 dB(A) hourly average or to the ambient noise level if it already exceeds 60 dB(A) hourly average. Such measures may include, but are not limited to, limitations on the placement of construction equipment and the simultaneous use of equipment.

- b. IF COASTAL CALIFORNIA GNATCATCHERS ARE NOT DETECTED DURING THE PROTOCOL SURVEY, THE QUALIFIED BIOLOGIST SHALL SUBMIT SUBSTANTIAL EVIDENCE TO THE CITY MANAGER AND APPLICABLE RESOURCE AGENCIES WHICH DEMONSTRATES WHETHER OR NOT MITIGATION MEASURES SUCH AS NOISE WALLS ARE NECESSARY BETWEEN MARCH 1 AND AUGUST 15 AS FOLLOWS:

1. IF THIS EVIDENCE INDICATES THE POTENTIAL IS HIGH FOR COASTAL CALIFORNIA GNATCATCHER TO BE PRESENT BASED ON HISTORICAL RECORDS OR SITE CONDITIONS, THEN CONDITION A.III SHALL BE ADHERED TO AS SPECIFIED ABOVE.
2. IF THIS EVIDENCE CONCLUDES THAT NO IMPACTS TO THIS SPECIES ARE ANTICIPATED, NO MITIGATION MEASURES WOULD BE NECESSARY.

LEAST BELL'S VIREO (State Endangered/Federally Endangered)

NO CLEARING, GRUBBING, GRADING, OR OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR BETWEEN MARCH 15 AND SEPTEMBER 15, THE BREEDING SEASON OF THE LEAST BELL'S VIREO, UNTIL THE FOLLOWING REQUIREMENTS HAVE BEEN MET TO THE SATISFACTION OF THE CITY MANAGER:

- A. A QUALIFIED BIOLOGIST (POSSESSING A VALID ENDANGERED SPECIES ACT SECTION 10(a)(1)(A) RECOVERY PERMIT) SHALL SURVEY THOSE WETLAND AREAS THAT WOULD BE SUBJECT TO CONSTRUCTION NOISE LEVELS EXCEEDING 60 DECIBELS [dB(A)] HOURLY AVERAGE FOR THE PRESENCE OF THE LEAST BELL'S VIREO. SURVEYS FOR THE THIS SPECIES SHALL BE CONDUCTED PURSUANT TO THE PROTOCOL SURVEY GUIDELINES ESTABLISHED BY THE U.S. FISH AND WILDLIFE SERVICE WITHIN THE BREEDING SEASON PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF THE LEAST BELL'S VIREO IS PRESENT, THEN THE FOLLOWING CONDITIONS MUST BE MET:

BETWEEN MARCH 15 AND SEPTEMBER 15, NO CLEARING, GRUBBING, OR GRADING OF OCCUPIED LEAST BELL'S VIREO HABITAT SHALL BE PERMITTED. AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; AND

BETWEEN MARCH 15 AND SEPTEMBER 15, NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN ANY PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES WOULD RESULT IN NOISE LEVELS EXCEEDING 60 dB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED LEAST BELL'S VIREO OR HABITAT. AN ANALYSIS SHOWING THAT NOISE GENERATED BY CONSTRUCTION ACTIVITIES WOULD NOT EXCEED 60 dB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED HABITAT MUST BE COMPLETED BY A QUALIFIED ACOUSTICIAN (POSSESSING CURRENT NOISE ENGINEER LICENSE OR REGISTRATION WITH MONITORING NOISE LEVEL EXPERIENCE WITH LISTED ANIMAL SPECIES) AND APPROVED BY THE CITY MANAGER AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. PRIOR TO THE COMMENCEMENT OF ANY OF CONSTRUCTION ACTIVITIES DURING THE BREEDING SEASON, AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED

UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; OR

AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, UNDER THE DIRECTION OF A QUALIFIED ACOUSTICIAN, NOISE ATTENUATION MEASURES (e.g., BERMS, WALLS) SHALL BE IMPLEMENTED TO ENSURE THAT NOISE LEVELS RESULTING FROM CONSTRUCTION ACTIVITIES WILL NOT EXCEED 60 dB(A) HOURLY AVERAGE AT THE EDGE OF HABITAT OCCUPIED BY THE LEAST BELL'S VIREO. CONCURRENT WITH THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND THE CONSTRUCTION OF NECESSARY NOISE ATTENUATION FACILITIES, NOISE MONITORING* SHALL BE CONDUCTED AT THE EDGE OF THE OCCUPIED HABITAT AREA TO ENSURE THAT NOISE LEVELS DO NOT EXCEED 60 dB(A) HOURLY AVERAGE. IF THE NOISE ATTENUATION TECHNIQUES IMPLEMENTED ARE DETERMINED

TO BE INADEQUATE BY THE QUALIFIED ACOUSTICIAN OR BIOLOGIST, THEN THE ASSOCIATED CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL SUCH TIME THAT ADEQUATE NOISE ATTENUATION IS ACHIEVED OR UNTIL THE END OF THE BREEDING SEASON (SEPTEMBER 16).

* Construction noise monitoring shall continue to be monitored at least twice weekly on varying days, or more frequently depending on the construction activity, to verify that noise levels at the edge of occupied habitat are maintained below 60 dB(A) hourly average or to the ambient noise level if it already exceeds 60 dB(A) hourly average. If not, other measures shall be implemented in consultation with the biologist and the City Manager, as necessary, to reduce noise levels to below 60 dB(A) hourly average or to the ambient noise level if it already exceeds 60 dB(A) hourly average. Such measures may include, but are not limited to, limitations on the placement of construction equipment and the simultaneous use of equipment.

- B. IF LEAST BELL'S VIREO ARE NOT DETECTED DURING THE PROTOCOL SURVEY, THE QUALIFIED BIOLOGIST SHALL SUBMIT SUBSTANTIAL EVIDENCE TO THE CITY MANAGER AND APPLICABLE RESOURCE AGENCIES WHICH DEMONSTRATES WHETHER OR NOT MITIGATION MEASURES SUCH AS NOISE WALLS ARE NECESSARY BETWEEN MARCH 15 AND SEPTEMBER 15 AS FOLLOWS:
- I. IF THIS EVIDENCE INDICATES THE POTENTIAL IS HIGH FOR LEAST BELL'S VIREO TO BE PRESENT BASED ON HISTORICAL RECORDS OR SITE CONDITIONS, THEN CONDITION A.III SHALL BE ADHERED TO AS SPECIFIED ABOVE.
 - II. IF THIS EVIDENCE CONCLUDES THAT NO IMPACTS TO THIS SPECIES ARE ANTICIPATED, NO MITIGATION MEASURES WOULD BE NECESSARY.

SOUTHWESTERN WILLOW FLYCATCHER (Federally Endangered)

1. Prior to the first reconstruction meeting, the City Manager (or appointed designee) shall verify that the following project requirements regarding the southwestern willow flycatcher are shown on the construction plans:

NO CLEARING, GRUBBING, GRADING, OR OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR BETWEEN MAY 1 AND SEPTEMBER 1, THE BREEDING SEASON OF THE SOUTHWESTERN WILLOW FLYCATCHER, UNTIL

THE FOLLOWING REQUIREMENTS HAVE BEEN MET TO THE SATISFACTION OF THE CITY MANAGER:

- A. A QUALIFIED BIOLOGIST (POSSESSING A VALID ENDANGERED SPECIES ACT SECTION 10(a)(1)(A) RECOVERY PERMIT) SHALL SURVEY THOSE WETLAND AREAS THAT WOULD BE SUBJECT TO CONSTRUCTION NOISE LEVELS EXCEEDING 60 DECIBELS [dB(A)] HOURLY AVERAGE FOR THE PRESENCE OF THE SOUTHWESTERN WILLOW FLYCATCHER. SURVEYS FOR THIS SPECIES SHALL BE CONDUCTED PURSUANT TO THE PROTOCOL SURVEY GUIDELINES ESTABLISHED BY THE U.S. FISH AND WILDLIFE SERVICE WITHIN THE BREEDING SEASON PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. IF THE SOUTHWESTERN WILLOW FLYCATCHER IS PRESENT, THEN THE FOLLOWING CONDITIONS MUST BE MET:

BETWEEN MAY 1 AND SEPTEMBER 1, NO CLEARING, GRUBBING, OR GRADING OF OCCUPIED SOUTHWESTERN WILLOW FLYCATCHER HABITAT SHALL BE PERMITTED. AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; AND

BETWEEN MAY 1 AND SEPTEMBER 1, NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN ANY PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES WOULD RESULT IN NOISE LEVELS EXCEEDING 60 dB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED SOUTHWESTERN WILLOW FLYCATCHER HABITAT. AN ANALYSIS SHOWING THAT NOISE GENERATED BY CONSTRUCTION ACTIVITIES WOULD NOT EXCEED 60 dB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED HABITAT MUST BE COMPLETED BY A QUALIFIED ACOUSTICIAN (POSSESSING CURRENT NOISE ENGINEER LICENSE OR REGISTRATION WITH MONITORING NOISE LEVEL EXPERIENCE WITH LISTED ANIMAL SPECIES) AND APPROVED BY THE CITY MANAGER AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES DURING THE BREEDING SEASON, AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; OR AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, UNDER THE DIRECTION OF A QUALIFIED ACOUSTICIAN.

NOISE ATTENUATION MEASURES (e.g., BERMS, WALLS) SHALL BE IMPLEMENTED TO ENSURE THAT NOISE LEVELS RESULTING FROM CONSTRUCTION ACTIVITIES WILL NOT EXCEED 60 dB(A) HOURLY AVERAGE AT THE EDGE OF HABITAT OCCUPIED BY THE SOUTHWESTERN WILLOW FLYCATCHER. CONCURRENT WITH THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND THE CONSTRUCTION OF NECESSARY NOISE ATTENUATION FACILITIES, NOISE MONITORING* SHALL BE CONDUCTED AT THE EDGE OF THE OCCUPIED HABITAT AREA TO ENSURE THAT NOISE LEVELS DO NOT EXCEED 60 dB(A) HOURLY AVERAGE. IF THE NOISE ATTENUATION TECHNIQUES IMPLEMENTED ARE DETERMINED TO BE INADEQUATE BY THE QUALIFIED ACOUSTICIAN OR BIOLOGIST, THEN THE ASSOCIATED CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL SUCH TIME THAT ADEQUATE NOISE ATTENUATION IS ACHIEVED OR UNTIL THE END OF THE BREEDING SEASON (SEPTEMBER 1).

* Construction noise monitoring shall continue to be monitored at least twice weekly on varying days, or more frequently depending on the construction activity, to verify that noise levels at the edge of occupied habitat are maintained below 60 dB(A) hourly average or to the ambient noise level if it already exceeds 60 dB(A) hourly average. If not, other measures shall be implemented in consultation with the biologist and the City Manager, as necessary, to reduce noise levels to below 60 dB(A) hourly average or to the ambient noise level if it already exceeds 60 dB(A) hourly average. Such measures may include, but are not limited to, limitations on the placement of construction equipment and the simultaneous use of equipment.

- B. IF SOUTHWESTERN WILLOW FLYCATCHER ARE NOT DETECTED DURING THE PROTOCOL SURVEY, THE QUALIFIED BIOLOGIST SHALL SUBMIT SUBSTANTIAL EVIDENCE TO THE CITY MANAGER AND APPLICABLE RESOURCE AGENCIES WHICH DEMONSTRATES WHETHER OR NOT MITIGATION MEASURES SUCH AS NOISE WALLS ARE NECESSARY BETWEEN MAY 1 AND SEPTEMBER 1 AS FOLLOWS:
- I. IF THIS EVIDENCE INDICATES THE POTENTIAL IS HIGH FOR SOUTHWESTERN WILLOW FLYCATCHER TO BE PRESENT BASED ON HISTORICAL RECORDS OR SITE CONDITIONS, THEN CONDITION A.III SHALL BE ADHERED TO AS SPECIFIED ABOVE.
 - II. IF THIS EVIDENCE CONCLUDES THAT NO IMPACTS TO THIS SPECIES ARE ANTICIPATED, NO MITIGATION MEASURES WOULD BE NECESSARY.

II. Prior to Start of Construction

A. Preconstruction Meeting

The Qualified Biologist/Owners Representative shall incorporate all MHPA construction related requirements, into the project's Biological Monitoring Exhibit (BME).

The Qualified Biologist/Owners Representative is responsible to arrange and perform a focused pre-con with all contractors, subcontractors, and all workers involved in grading or other construction activities that discusses the sensitive nature of the adjacent sensitive biological resources.

III. During Construction

- A. The Qualified Biologist/Owners Representative, shall verify that all construction related activities taking place ~~within or~~ adjacent to the MHPA are consistent with the CDs, the MSCP/MHPA Land Use Adjacency Guidelines. The Qualified Biologist/Owners Representative shall monitor and ensure that:
1. **Land Development /Grading Boundaries** - The MHPA boundary and the limits of grading shall be clearly delineated by a survey crew prior to brushing, clearing, or grading. Limits shall be defined with orange construction fence and a siltation fence (can be combined) under the supervision of the Qualified Biologist/Owners Representative who shall provide a letter of verification to RE/MMC that all limits were marked as required. ~~Within or a~~Adjacent to the MHPA, all manufactured slopes associated with site development shall be included within the development footprint.
 2. **Drainage/Toxics** - No Direct drainage into the MHPA shall occur during or after construction and that filtration devices, swales and/or detention/desiltation basins that drain into the MHPA are functioning properly during construction, and that permanent maintenance after construction is addressed. These systems should be maintained approximately once a year, or as often as needed, to ensure proper functioning. Maintenance should include dredging out sediments if needed, removing exotic plant materials, and adding chemical-neutralizing compounds (e.g. clay compounds) when necessary and appropriate.
 3. **Staging/storage, equipment maintenance, and trash** - Identify all areas for staging, storage of equipment and materials, trash, equipment maintenance, and other construction related activities on the monitoring exhibits and verify that they are within the development footprint. Comply with the applicable notes on the plans
 - 4 **Barriers** - New development adjacent to the MHPA provides city approved barriers along the MHPA boundaries
 5. **Lighting** - Periodic night inspections are performed to verify that all lighting adjacent to the MHPA is directed away from preserve areas and appropriate placement and shielding is used.
 6. **Invasives** - No invasive plant species are used ~~in or~~ adjacent (within 100 feet) to the MHPA ~~and that within the MHPA, all plant species must be native.~~
 7. **Brush Management** - BMZ1 is within the development footprint and outside of the MHPA, and that maintenance responsibility for the BMZ 2 located within the MHPA is identified as the responsibility of an HOA or other private entity.
 8. **Noise** – For any area of the site that is adjacent to ~~or within~~ the MHPA, construction noise that exceeds the maximum levels allowed, shall be avoided, during the breeding seasons, for protected avian species such as: *California Gnatcatcher* (3/1-8/15); *Least Bell's vireo* (3/15-9/15); and *Southwestern Willow Flycatcher* (5/1-8/30). If construction is proposed during the breeding season for the species, U.S. Fish and Wildlife Service protocol surveys will be required in order to determine species presence/absence. When applicable, adequate noise reduction measures shall

be incorporated.

IV. Post Construction

A. Preparation and Submittal of Monitoring Report

The Qualified Biologist/Owners Representative shall submit a final biological monitoring report to the RE/MMC within 30 days of the completion of construction that requires monitoring. The report shall incorporate the results of the MMRP/MSCP requirements per the construction documents and the BME to the satisfaction of RE/MMC.

B. HISTORICAL RESOURCES (ARCHAEOLOGY)

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 1/4 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
 - b. 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.
 - c. 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).
 - d. 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 (CSVSR). The CSVSR'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 cannot 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

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.

C. 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 (CSV). The CSV'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

- (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 CSV 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.

D. HISTORICAL RESOURCES (BUILT ENVIRONMENT)

When a future project requires implementation of this mitigation measure, the following paragraph shall be included in the subsequent environmental document and applicable Historic District name, boundary and district guidelines, if applicable shall be inserted as noted below in [brackets]:

The project is located within the [[insert District name]] Historic District, bounded by [[enter District boundary]] All work within the District boundary must be consistent with the City's Historical Resources Regulations, the U.S. Secretary of the Interior's Standards and the [[enter district guidelines if applicable]] District Design Guidelines. The following mitigation measures are required within the District boundary and shall ensure consistency with these regulations, Standards and guidelines.

- A. Prior to beginning any work at the site, a Pre Construction meeting that includes Historic Resources and MMC staff shall be held at the project site to review these mitigation measures and requirements within the District boundary.
- B. A Historic Sidewalk Stamp Inventory prepared by a qualified historic consultant or archaeologist and approved by HRB staff is required prior to the Pre-Construction (Pre-Con) meeting. The Inventory shall include photo documentation of all existing stamps within the project area keyed to a project site plan.
- C. Existing sidewalk stamps shall be preserved in place. Where existing sidewalk stamps must be impacted to accommodate right-of-way improvements, the following actions are required:
 1. A mold of the sidewalk stamp will be made to allow reconstruction of the stamp if destroyed during relocation.
 2. The sidewalk stamp shall be saw-cut to preserve the stamp in its entirety; relocated as near as possible to the original location; and set in the same orientation.
 3. If the sidewalk stamp is destroyed during relocation, a new sidewalk stamp shall be made from the mold taken and relocated as near as possible to the original location and set in the same orientation.
- D. No new sidewalk stamps shall be added by any contractor working on the project.
- E. Existing historic sidewalk, parkway and street widths shall be maintained. Any work that requires alteration of these widths shall be approved by Historic Resources staff.
- F. Existing historic curb heights and appearance shall be maintained. Any work that requires alteration of the existing height or appearance shall be approved by Historic Resources staff.

- G. Sections of sidewalk which may be impacted by the project shall be replaced in-kind to match the historic color, texture and scoring pattern of the original sidewalks. If the original color, scoring pattern or texture is not present at the location of the impact, the historically appropriate color, texture and scoring pattern found throughout the district shall be used.
- H. Truncated domes used at corner curb ramps shall be dark gray in color.
- I. Existing historic lighting, such as acorn lighting shall remain. New lighting shall be consistent with existing lighting fixtures, or fixtures specified in any applicable District Design Guidelines.
- J. Existing mature street trees shall remain. New street trees shall be consistent with the prevalent mature species in the District and/or species specified in any applicable District Design Guidelines.
- K. Any walls located within the right-of-way or on private property are considered historic and may not be impacted without prior review and approval by Historic Resources staff.

VI. PUBLIC REVIEW DISTRIBUTION:

Draft copies or notice of this Mitigated Negative Declaration were distributed to:

United States Government

- Fish and Wildlife Service (23)
- MCAS Miramar (13)
- Naval Facilities Engineering Command Southwest (8)

State of California

- Department of Fish and Game (32A)
- State Clearing House (46)
- Resources Agency (43)
- Native American Heritage Commission (56)
- State Historic Preservation Officer (41)
- Regional Water Quality Control Board (44)
- Water Resources (45)
- Water Resources Control Board (55)
- Coastal Commission (48)
- Caltrans District 11 (31)

County of San Diego

- Department of Environmental Health (75)
- Planning and Land Use (68)
- Water Authority (73)

City of San Diego

- Office of the Mayor (91)
- Council President Young, District 4 (MS 10A)
- Councilmember Lightner, District 1 (MS 10A)
- Councilmember Faulconer, District 2 (MS 10A)
- Councilmember Gloria, District 3 (MS 10A)
- Councilmember DeMare, District 5 (MS 10A)

Councilmember Zapf, District 6 (MS 10A)
 Councilmember Emerald, District 7 (MS 10A)
 Councilmember Alvarez, District 8 (MS 10A)
 Historical Resource Board (87)
 City Attorney (MS 56A)
 Shannon Thomas (MS 93C)
 Engineering and Capital Projects
 Marc Cass (MS 908A)
 Allison Sherwood (MS 908A)
 Matthew DeBeliso (MS 908A)
 Akram Bassyouni (MS 908A)
 Michael Ninh (MS 908A)
 Roman Anissi (MS 908A)
 Daniel Tittle (MS 908A)
 Development Services Department
 Myra Herrmann (MS 501)
 Kristen Forburger (MS 401)
 Jeanne Krosch (MS 401)
 Kelley Stanco (MS 501)
 Library Dept.-Gov. Documents MS 17 (81)
 Balboa Branch Library (81B)
 Beckwourth Branch Library (81C)
 Benjamin Branch Library (81D)
 Carmel Mountain Ranch Branch (81E)
 Carmel Valley Branch Library (81F)
 City Heights/Weingart Branch Library (81G)
 Clairemont Branch Library (81H)
 College-Rolando Branch Library (81I)
 Kensington-Normal Heights Branch Library (81K)
 La Jolla/Riford branch Library (81L)
 Linda Vista Branch Library (81M)
 Logan Heights Branch Library (81N)
 Malcolm X Library & Performing Arts Center (81O)
 Mira Mesa Branch Library (81P)
 Mission Hills Branch Library (81Q)
 Mission Valley Branch Library (81R)
 North Clairemont Branch Library (81S)
 North Park Branch Library (81T)
 Oak Park Branch Library (81U)
 Ocean Beach Branch Library (81V)
 Otay Mesa-Nestor Branch Library (81W)
 Pacific Beach/Taylor Branch Library (81X)
 Paradise Hills Branch Library (81Y)
 Point Loma/Hervey Branch Library (81Z)
 Rancho Bernardo Branch Library (81AA)
 Rancho Peñasquitos Branch Library (81BB)
 San Carlos Branch Library (81DD)
 San Ysidro Branch Library (81EE)
 Scripps Miramar Ranch Branch Library (81FF)

Serra Mesa Branch Library (81GG)
 Skyline Hills Branch Library (81HH)
 Tierrasanta Branch Library (81II)
 University Community Branch Library (81JJ)
 University Heights Branch Library (81KK)
 Malcolm A. Love Library (457)

Other Interested Individuals or Groups

Community Planning Groups

Community Planners Committee (194)
 Balboa Park Committee (226 + 226A)
 Black Mountain Ranch – Subarea I (226C)
 Otay Mesa - Nestor Planning Committee (228)
 Otay Mesa Planning Committee (235)
 Clairemont Mesa Planning Committee (248)
 Greater Golden Hill Planning Committee (259)
 Serra Mesa Planning Group (263A)
 Kearny Mesa Community Planning Group (265)
 Linda Vista Community Planning Committee (267)
 La Jolla Community Planning Association (275)
 City Heights Area Planning Committee (287)
 Kensington-Talmadge Planning Committee (290)
 Normal Heights Community Planning Committee (291)
 Eastern Area Planning Committee (302)
 North Bay Community Planning Group (307)
 Mira Mesa Community Planning Group (310)
 Mission Beach Precise Planning Board (325)
 Mission Valley Unified Planning Organization (331)
 Navajo Community Planners Inc. (336)
 Carmel Valley Community Planning Board (350)
 Del Mar Mesa Community Planning Board (361)
 Greater North Park Planning Committee (363)
 Ocean Beach Planning Board (367)
 Old Town Community Planning Committee (368)
 Pacific Beach Community Planning Committee (375)
 Pacific Highlands Ranch – Subarea III (377A)
 Rancho Peñasquitos Planning Board (380)
 Peninsula Community Planning Board (390)
 Rancho Bernardo Community Planning Board (400)
 Sabre Springs Community Planning Group (406B)
 Sabre Springs Community Planning Group (407)
 San Pasqual - Lake Hodges Planning Group (426)
 San Ysidro Planning and Development Group (433)
 Scripps Ranch Community Planning Group (437)
 Miramar Ranch North Planning Committee (439)
 Skyline - Paradise Hills Planning Committee (443)
 Torrey Hills Community Planning Board (444A)
 Southeastern San Diego Planning Committee (449)
 Encanto Neighborhoods Community Planning Group (449A)

College Area Community Council (456)
Tierrasanta Community Council (462)
Torrey Highlands – Subarea IV (467)
Torrey Pines Community Planning Group (469)
University City Community Planning Group (480)
Uptown Planners (498)

Town/Community Councils - PUBLIC NOTICE ONLY

Town Council Presidents Association (197)
Harborview Community Council (246)
Carmel Mountain Ranch Community Council (344)
Clairemont Town Council (257)
Serra Mesa Community Council (264)
Rolando Community Council (288)
Oak Park Community Council (298)
Webster Community Council (301)
Darnell Community Council (306)
La Jolla Town Council (273)
Mission Beach Town Council (326)
Mission Valley Community Council (328 C)
San Carlos Area Council (338)
Ocean Beach Town Council, Inc. (367 A)
Pacific Beach Town Council (374)
Rancho Penasquitos Community Council (378)
Rancho Bernardo Community Council, Inc. (398)
Rancho Penasquitos Town Council (383)
United Border Community Town Council (434)
San Dieguito Planning Group (412)
Murphy Canyon Community Council (463)

Other Interested Individuals or Groups

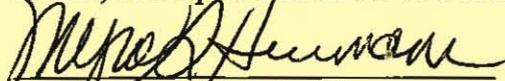
San Diego Unified Port District (109)
San Diego County Regional Airport Authority (110)
San Diego transit Corporation (112)
San Diego Gas & Electric (114)
Metropolitan Transit Systems (115)
San Diego Unified School District (125/132)
San Ysidro Unified School District (127)
San Diego Community College District (133)
The Beach and Bay Beacon News (137)
Sierra Club (165)
San Diego Canyonlands (165A)
San Diego Natural History Museum (166)
San Diego Audubon Society (167)
Jim Peugh (167A)
California Native Plant Society (170)
San Diego Coastkeeper (173)
Endangered Habitat League (182 and 182A)
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)
San Diego County Archaeological Society (218)
Kumeyaay Cultural Heritage Preservation (223)
Kumeyaay Cultural Repatriation Committee (225)
Native American Distribution (NOTICE ONLY 225A-T)
San Diego Historical Society (211)
Theresa Acerro (230)
Unified Port of San Diego (240)
Centre City Development Corporation (242)
Centre City Advisory Committee (243)
Balboa Avenue CAC (246)
Theresa Quiros (294)
Fairmount Park Neighborhood Association (303)
John Stump (304)
San Diego Baykeeper (319)
Debbie Knight (320)
Mission Hills Heritage (497)

VII. RESULTS OF PUBLIC REVIEW:

- () No comments were received during the public input period.
- () Comments were received but did not address the draft Mitigated Negative Declaration finding or the accuracy/completeness of the Initial Study. No response is necessary. The letters are attached.
- (x) Comments addressing the findings of the draft Mitigated Negative Declaration and/or accuracy or completeness of the Initial Study were received during the public input period. The letters and responses follow.

Copies of the draft Mitigated Negative Declaration, the Mitigation, Monitoring and Reporting Program and any Initial Study material are available in the office of the Entitlements Division for review, or for purchase at the cost of reproduction.


Myra Herrmann, Senior Planner
Development Services Department

September 14, 2011
Date of Draft Report

October 24, 2011
Date of Final Report

Analysts: J. Szymanski/M. Herrmann

Attachments:

Figure 1 - Harbor Drive Pipeline Location Map

Figure 2 - Water Group 949 Site 1 Location Map

Figure 3- Water Group 949 Site 2 Location Map

Figure 4- Water Group 949 Site 3 Location Map

Figure 5- Sewer Group 787 Location Map

Figure 6- Water Group 914 Location Map

Figure 7- Sewer and Water Group 732 Location Map

Figure 8- Water Group 949-Site 2 with the MHPA

Initial Study Checklist



STATE OF CALIFORNIA
 Governor's Office of Planning and Research
 State Clearinghouse and Planning Unit



Kes Aker
 Director

RESPONSE TO COMMENTS

CALIFORNIA STATE CLEARING HOUSE AND PLANNING UNIT (10/14/2011)

October 14, 2011

Jeffrey Szymanski
 City of San Diego
 1222 First Avenue, MS-501
 San Diego, CA 92101

Subject: Citywide Pipeline Projects 2011
 SCH#: 2011091045

Dear Jeffrey Szymanski:

The State Clearinghouse submitted the above named Mitigated Negative Declaration to selected state agencies for review. On the enclosed Document Details Report please note that the Clearinghouse has listed the state agencies that reviewed your document. The review period closed on October 13, 2011, and the comments from the responding agency-(ies) is (are) enclosed. If this comment package is not in order, please notify the State Clearinghouse immediately. Please refer to the project's ten-digit State Clearinghouse number in future correspondence so that we may respond promptly.

Please note that Section 21104(c) of the California Public Resources Code states that:

"A responsible or other public agency shall only make substantive comments regarding those activities involved in a project which are within an area of expertise of the agency or which are required to be carried out or approved by the agency. Those comments shall be supported by specific documentation."

These comments are forwarded for use in preparing your final environmental document. Should you need more information or clarification of the enclosed comments, we recommend that you contact the commenting agency directly.

This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. Please contact the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process.

Sincerely,


Scott Morgan
 Director, State Clearinghouse

Enclosures
 cc: Resources Agency

1. Comment acknowledged no response is necessary.

1400 TENTH STREET P.O. BOX 9044 SACRAMENTO, CALIFORNIA 95812-3044
 TEL (916) 445-0818 FAX (916) 223-3018 www.spr.ca.gov

SCH# 2011091045
Project Title Citywide Pipeline Projects 2011
Lead Agency San Diego, City of

RESPONSE TO COMMENTS

CALIFORNIA STATE CLEARING HOUSE AND PLANNING UNIT (10/14/2011)

Type MND Mitigated Negative Declaration

Description Council Approval to allow the replacement, rehabilitation, relocation, point repair, new trenching, trenchless construction, and abandonment of water and/or sewer alignments and associated improvements such as curb ramps, sewer lateral connections, water service connections, manholes, new pavement/slurry, the removal and/or replacement of street trees and the removal and/or replacement of street lights. The construction footprint, including staging areas and other areas (such as access) should be located within the City of San Diego Public Right-of-Way and/or within public easements. The proposal may include planned pipeline construction within private easements from the PROW to the service connection. A signed agreement between the City and the property owner would be required for work conducted on private property. Project types that would be included in the analysis contained herein would consist of sewer and water group jobs, trunk sewers, large diameter water pipeline projects, manholes and other necessary appurtenances. All associated equipment would be staged in existing right-of-ways adjacent to the proposed work areas." The proposed project would not impact Sensitive Biological Resources or Environmentally Sensitive Lands (ESL) as defined by the Land Development Code and would not encroach into the City's Multi-Habitat Planning Area (MHPA). Applicant: The City of San Diego Engineering and Capital Projects Department AND Public Utilities Department.

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Lead Agency Contact

Name Jeffrey Szymanski
Agency City of San Diego
Phone 619 448 5324
email
Address 1222 First Avenue, MS-501
City San Diego **State** CA **Zip** 92101 **Fax**

Project Location

County San Diego
City San Diego
Region
Lat / Long
Cross Streets Citywide
Parcel No.
Township

	Range	Section	Base

Proximity to:

Highways
Airports
Railways
Waterways
Schools
Land Use Citywide

Project Issues Archaeologic-Historic; Landuse; Other Issues

Reviewing Agencies Resources Agency; California Coastal Commission; Department of Fish and Game, Region 5; Office of Historic Preservation; Department of Parks and Recreation; Department of Water Resources; Caltrans, Division of Aeronautics; California Highway Patrol; Caltrans, District 11; CA Department of Public Health; State Water Resources Control Board, Division of Financial Assistance; Regional Water Quality Control Board, Region 9; Native American Heritage Commission; Public Utilities Commission

Note: Blanks in data fields result from insufficient information provided by lead agency.

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Note: Blanks in data fields result from insufficient information provided by lead agency.

DEPARTMENT OF TRANSPORTATION

DISTRICT 11
 PLANNING DIVISION
 4050 TAYLOR STREET, MS 240
 SAN DIEGO, CA 92110
 PHONE (619) 688-6960
 FAX (619) 688-4299
 TTY 711
 www.dot.ca.gov



Use your power!
 Be energy efficient!



September 28, 2011

Mr. Jeffrey Szymanski
 City of San Diego Development Services Center
 1222 First Avenue MS 501
 San Diego, CA 92101

11-SD-Var
 PM Various
 Citywide Pipeline Project's 2011
 SCH# 2011091045

Cleav
 10/13/11
 Q

Dear Mr. Szymanski:

The California Department of Transportation (Caltrans) appreciates the opportunity to comment on the Draft Mitigated Negative Declaration (MND) for the North-South District Interconnection System Project (Project). The project is identified in the MND to cross State Route 52 (SR-52) and State Route 94 (SR-94). Caltrans would like to submit the following comments:

2. Any work performed within Caltrans Right-of-Way (R/W) will require an approved encroachment permit by Caltrans. All Caltrans standards for utility encroachments shall be met.

3. Additionally, any work performed within Caltrans R/W must provide an approved final environmental document including the California Environmental Quality Act (CEQA) determination addressing any environmental impacts within the Caltrans' R/W, and any corresponding technical studies. If these materials are not included with the encroachment permit application, the applicant will be required to acquire and provide these to Caltrans before the permit application will be accepted. Identification of avoidance and/or mitigation measures will be a condition of the encroachment permit approval as well as procurement of any necessary regulatory and resource agency permits.

Additional information regarding encroachment permits may be obtained by contacting the Caltrans Permits Office at (619) 688-6158. Early coordination with Caltrans is strongly advised for all encroachment permit.

If you have any questions on the comments Caltrans has provided, please contact Marisa Hampton of the Development Review Branch at (619) 688-6954.

Sincerely,

JACOB ARMSTRONG, Chief
 Development Review Branch

"Caltrans improves mobility across California"

RESPONSE TO COMMENTS

DEPARTMENT OF TRANSPORTATION (9/28/2011)

2. The comment letter has been forwarded to the applicant department and it is acknowledged that any work conducted within the Caltrans R/W will require an approved encroachment permit by Caltrans.
3. The applicant department acknowledges that they must provide the certified CEQA document to Caltrans prior to the approval of an encroachment permit.

NATIVE AMERICAN HERITAGE COMMISSION

1500 CAPITOL MALL, ROOM 304
 SACRAMENTO, CA 95814
 (916) 653-6251
 Fax: (916) 967-6390
 Web Site: www.nahc.ca.gov
 de_nahc@pacbell.net

clear
 10/13/2011
 E



RECEIVED

SEP 29 2011

STATE CLEARING HOUSE

September 27, 2011

Mr. Jeffrey Szymanski, Environmental Planner

City of San Diego Development Services Department

1222 First Avenue, MS 501

San Diego, CA 92101

Re: SCH#2011091045; CEQA Notice of Completion; proposed Mitigated Negative Declaration for the "Citywide Pipeline Projects 2011, City Project No. 255100;" located in the City of San Diego; San Diego County, California.

Dear Mr. Szymanski:

The Native American Heritage Commission (NAHC), the State of California "Trustee Agency" for the protection and preservation of Native American cultural resources pursuant to California Public Resources Code §21070 and affirmed by the Third Appellate Court in the case of EPIC v. Johnson (1985: 170 Cal App. 3rd 604). The NAHC wishes to comment on the proposed project.

This letter includes state and federal statutes relating to Native American historic properties of religious and cultural significance to American Indian tribes and interested Native American individuals as 'consulting parties' under both state and federal law. State law also addresses the freedom of Native American Religious Expression in Public Resources Code §5097.9.

The California Environmental Quality Act (CEQA – CA Public Resources Code 21000-21177, amendments effective 3/18/2010) requires that any project that causes a substantial adverse change in the significance of an historical resource, that includes archaeological resources, is a 'significant effect' requiring the preparation of an Environmental Impact Report (EIR) per the CEQA Guidelines defines a significant impact on the environment as 'a substantial, or potentially substantial, adverse change in any of physical conditions within an area affected by the proposed project, including ... objects of historic or aesthetic significance.' In order to comply with this provision, the lead agency is required to assess whether the project will have an adverse impact on these resources within the 'area of potential effect (APE)', and if so, to mitigate that effect. The NAHC Sacred Lands File (SLF) search resulted as follows: **Native American cultural resources were identified in several areas of the City of San Diego.**

The NAHC 'Sacred Sites,' as defined by the Native American Heritage Commission and the California Legislature in California Public Resources Code §§5097.94(a) and 5097.96. Items in the NAHC Sacred Lands Inventory are confidential and exempt from the Public Records Act pursuant to California Government Code §6254 (r).

Early consultation with Native American tribes in your area is the best way to avoid unanticipated discoveries of cultural resources or burial sites once a project is underway. Culturally affiliated tribes and individuals may have knowledge of the religious and cultural significance of the historic properties in the project area (e.g. APE). We strongly urge that you

RESPONSE TO COMMENTS

NATIVE AMERICAN HERITAGE COMMISSION (9/29/2011)

4. Comment noted. Staff acknowledges that Native American cultural resources have been identified within several areas of the City of San Diego. Archaeological and Native American monitoring has been included as mitigation within the MND and would preclude a substantial adverse change in the significance of historical resources.
5. Comment noted. The draft MND was sent to all individuals on the recommended list from the NAHC, with the exception of the Inter-Tribal Cultural Resource Council. This new group will be included in the distribution of the final MND and will also added to the City's list for distribution of draft environmental documents which include a discussion of archaeological and/or Native American cultural resources.

make contact with the list of Native American Contacts on the attached list of Native American contacts, to see if your proposed project might impact Native American cultural resources and to obtain their recommendations concerning the proposed project. Pursuant to CA Public Resources Code § 5097.95, the NAHC requests that the Native American consulting parties be provided pertinent project information. Consultation with Native American communities is also a matter of environmental justice as defined by California Government Code §65040.12(e). Pursuant to CA Public Resources Code §5097.95, the NAHC requests that pertinent project information be provided consulting tribal parties. The NAHC recommends *avoidance* as defined by CEQA Guidelines §15370(a) to pursuing a project that would damage or destroy Native American cultural resources and Section 2183.2 that requires documentation, data recovery of cultural resources.

Consultation with tribes and interested Native American consulting parties, on the NAHC list, should be conducted in compliance with the requirements of federal NEPA and Section 106 and 4(f) of federal NHPA (16 U.S.C. 470 *et seq.*), 36 CFR Part 800.3 (f) (2) & 5, the President's Council on Environmental Quality (CSQ, 42 U.S.C 4371 *et seq.* and NAGPRA (25 U.S.C. 3001-3013) as appropriate. The 1992 *Secretary of the Interiors Standards for the Treatment of Historic Properties* were revised so that they could be applied to all historic resource types included in the National Register of Historic Places and including cultural landscapes. Also, federal Executive Orders Nos. 11593 (preservation of cultural environment), 13175 (coordination & consultation) and 13007 (Sacred Sites) are helpful, supportive guides for Section 106 consultation. The aforementioned Secretary of the Interior's *Standards* include recommendations for all 'lead agencies' to consider the historic context of proposed projects and to "research" the cultural landscape that might include the 'area of potential effect.'

Confidentiality of "historic properties of religious and cultural significance" should also be considered as protected by California Government Code §6254(r) and may also be protected under Section 304 of the NHPA or at the Secretary of the Interior discretion if not eligible for listing on the National Register of Historic Places. The Secretary may also be advised by the federal Indian Religious Freedom Act (cf. 42 U.S.C., 1996) in issuing a decision on whether or not to disclose items of religious and/or cultural significance identified in or near the APEs and possibility threatened by proposed project activity.

Furthermore, Public Resources Code Section 5097.98, California Government Code §27491 and Health & Safety Code Section 7050.5 provide for provisions for accidentally discovered archeological resources during construction and mandate the processes to be followed in the event of an accidental discovery of any human remains in a project location other than a 'dedicated cemetery'.

To be effective, consultation on specific projects must be the result of an ongoing relationship between Native American tribes and lead agencies, project proponents and their contractors, in the opinion of the NAHC. Regarding tribal consultation, a relationship built around regular meetings and informal involvement with local tribes will lead to more qualitative consultation tribal input on specific projects.

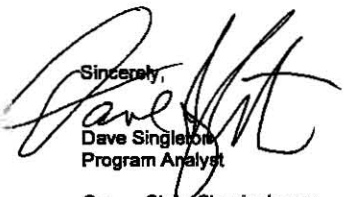
If you have any questions about this response to your request, please do not hesitate to contact me at (916) 653-6251.

6. Please see Response to Comment 5. In addition, the MND includes mitigation requirements that would require the preparation of background research including a ¼ mile radius archaeological record search at the South Coastal Information Center prior to the commencement of construction. The record search of the surrounding area would provide the historic context and inform the consultant of the cultural landscape for the APE of the project.
7. Comment acknowledged.
8. Please see Section III and IV of the MMRP under Historical Resources (Archaeology). Mitigation measures are in place in case of discovery of human remains and archaeological resources during construction that would ensure compliance with Public Resources Code Section 5097.98, California Government Code §27491 and Health and Safety Code Section 7050.5
9. Comment noted. The City has gone to great efforts to establish and maintain productive working relationships with the Native American community.

RESPONSE TO COMMENTS

NATIVE AMERICAN HERITAGE COMMISSION (9/29/2011) continued

Sincerely,


Dave Singleton
Program Analyst

Cc: State Clearinghouse

Attachment: Native American Contact List

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NATIVE AMERICAN HERITAGE COMMISSION (9/29/2011) continued

Jamul Indian Village Kenneth Meza, Chairperson P.O. Box 612 Jamul, CA 91935 jamulrez@sctdv.net (619) 669-4785 (619) 669-48178 - Fax	Diegueno/Kumeyaay 2005 S. Escondido Blvd. Escondido, CA 92025 (760) 737-7628 (760) 747-8568 Fax
Mesa Grande Band of Mission Indians Mark Romero, Chairperson P.O. Box 270 Santa Ysabel, CA 92070 mesagrandeband@msn.com (760) 782-3818 (760) 782-9092 Fax	Diegueno Kumeyaay Cultural Repatriation Committee Steve Banegas, Spokesperson 1095 Barona Road Lakeside, CA 92040 (619) 742-5587 - cell (619) 742-5587 (619) 443-0681 FAX
Kumeyaay Cultural Heritage Preservation Paul Cuero 36190 Church Road, Suite 5 Campo, CA 91906 (619) 478-9046 (619) 478-9505 (619) 478-5818 Fax	Diegueno/ Kumeyaay Ewiaapaayp Tribal Office Will Micklin, Executive Director 4054 Willows Road Alpine, CA 91901 wmicklin@leaningrock.net (619) 445-6315 - voice (619) 445-9126 - fax
Kwaaymii Laguna Band of Mission Indians Carmen Lucas P.O. Box 775 Pine Valley, CA 91962 (619) 709-4207	Diegueno - Ewiaapaayp Tribal Office Michael Garcia, Vice Chairperson 4054 Willows Road Alpine, CA 91901 michaalg@leaningrock.net (619) 445-6315 - voice (619) 445-9126 - fax

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This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.99 of the Public Resources Code.

This list is applicable for contacting local Native Americans with regard to cultural resources for the proposed CH#2011091046; CEQA Notice of Completion; proposed Mitigated Negative Declaration for the Citywide Pipelines Projects 2011; located in the City of San Diego; San Diego California.

Barona Group of the Capitan Grande
Edwin Romero, Chairperson
1095 Barona Road Diegueno
Lakeside, CA 92040
erome@barona-nsn.gov
(619) 443-6612
619-443-0681

Sycuan Band of the Kumeyaay Nation
Danny Tucker, Chairperson
5459 Sycuan Road Diegueno/Kumeyaay
El Cajon, CA 92021
dsilva@sycuan-nsn.gov
619 445-2613
619 445-1927 Fax

NATIVE AMERICAN HERITAGE COMMISSION (9/29/2011) continued

La Posta Band of Mission Indians
Dwendolyn Parada, Chairperson
PO Box 1120 Diegueno/Kumeyaay
Boulevard, CA 91905
dparada@lapostacasino.
(619) 478-2113
619-478-2125

Viejas Band of Kumeyaay Indians
Anthony R. Pico, Chairperson
PO Box 908 Diegueno/Kumeyaay
Alpine, CA 91903
jrothau@viejas-nsn.gov
(619) 445-3810
(619) 445-5337 Fax

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San Pasqual Band of Mission Indians
Allen E. Lawson, Chairperson
PO Box 365 Diegueno
Valley Center, CA 92082
allenl@sanpasqualband.com
(760) 749-3200
(760) 749-3876 Fax

Kumeyaay Cultural Historic Committee
Ron Christman
56 Viejas Grade Road Diegueno/Kumeyaay
Alpine, CA 92001
(619) 445-0385

Tipay Nation of Santa Ysabel
Virgil Perez, Spokesman
PO Box 130 Diegueno
Santa Ysabel, CA 92070
brandietaylor@yahoo.com
(760) 765-0845
(760) 765-0320 Fax

Campo Kumeyaay Nation
Monique LaChappa, Chairperson
36190 Church Road, Suite 1 Diegueno/Kumeyaay
Campo, CA 91906
mlachappa@campo-nsn.gov
(619) 478-9046
(619) 478-5818 Fax

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.96 of the Public Resources Code.

This list is applicable for contacting local Native Americans with regard to cultural resources for the proposed

HR#2011091045; CEQA Notice of Completion; proposed Mitigated Negative Declaration for the Citywide Pipelines Projects 2011; located in the City of San Diego; San Diego California.

Diegueño/Kumeyaay
Kumeyaay Cultural Repatriation Committee
Bernice Paipa, Vice Spokesperson
P.O. Box 1120
Diegueno/Kumeyaay
Boulevard , CA 91905
(619) 478-2113

Diegueño/Kumeyaay
Kumeyaay Cultural Repatriation Committee
Bernice Paipa, Vice Spokesperson
P.O. Box 1120
Diegueno/Kumeyaay
Boulevard , CA 91905
(619) 478-2113

NATIVE AMERICAN HERITAGE COMMISSION (9/29/2011) continued

Manzanita Band of the Kumeyaay Nation
Leroy J. Elliott, Chairperson
P.O. Box 1302
Diegueno/Kumeyaay
Boulevard , CA 91905
(619) 766-4930
(619) 766-4957 - FAX

Kumeyaay Diegueno Land Conservancy
M. Louis Guassac
P.O. Box 1992
Diegueno/Kumeyaay
Alpine , CA 91903
guassac@onebox.com
(619) 952-8430

Inter-Tribal Cultural Resource Council
Frank Brown, Coordinator
240 Brown Road
Diegueno/Kumeyaay
Alpine , CA 91901
FIREFIGHTER69TFF@AOL.
COM
(619) 884-8437

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This list is current only as of the date of this document.

The distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 8087.84 of the Public Resources Code and Section 8087.86 of the Public Resources Code.

This list is applicable for contacting local Native Americans with regard to cultural resources for the proposed CEQA#2011091048; CEQA Notice of Completion; proposed Mitigated Negative Declaration for the Citywide Pipelines Projects 2011; located in the City of San Diego; San Diego California.

State Water Resources Control Board

OCT 10 2011

Jeffrey Szymanski, Associate Planner
City of San Diego, Development Services Department
1222 First Avenue MS 501
San Diego, CA 92101

Dear Mr. Szymanski,

IS/MND) FOR THE CITY OF SAN DIEGO (CITY); CITYWIDE PIPELINE PROJECTS 2011
(PROJECT); SAN DIEGO COUNTY; STATE CLEARINGHOUSE NO.2011091045

We understand the City maybe pursuing Clean Water State Revolving Fund (CWSRF) financing for this Project. As a funding agency and a State agency with jurisdiction by law to preserve, enhance, and restore the quality of California's water resources, the State Water Resources Control Board (State Water Board) is providing the following information for the environmental document prepared for the Project.

10 Please provide us with the following documents applicable to the proposed Project: (1) 2 copies of the draft and final IS/MND, (2) the resolution adopting/certifying the IS/MND making California Environmental Quality Act (CEQA) findings, (3) all comments received during the review period and the City's response to those comments, (4) the adopted Mitigation Monitoring and Reporting Program, and (5) the Notice of Determination filed with the Governor's Office of Planning and Research State Clearinghouse. In addition, we would appreciate notices of any hearings or meetings held regarding environmental review of any projects to be funded by the State Water Board.

The State Water Board, Division of Financial Assistance, is responsible for administering CWSRF funds. The primary purpose for the CWSRF Program is to implement the Clean Water Act and various state laws by providing financial assistance for wastewater treatment facilities necessary to prevent water pollution, recycle water, correct nonpoint source and storm drainage pollution problems, and provide for estuary enhancement, and thereby protect and promote health, safety and welfare of the inhabitants of the state. The CWSRF Program provides low-interest funding equal to one-half the most recent State General Obligation Bond Rates with a 20-year term. Applications are accepted and processed continuously. Please refer to the State Water Board's CWSRF website at www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/index.shtml.

The CWSRF Program is partially funded by the U.S. Environmental Protection Agency and requires additional "CEQA-Plus" environmental documentation and review. Four enclosures are included that further explain the environmental review process and some additional federal requirements in the CWSRF Program. The State Water Board is required to consult directly with agencies responsible for implementing federal environmental laws and regulations. Any environmental issues raised by federal agencies or their representatives will need to be resolved prior to State Water Board approval of a CWSRF funding commitment for the proposed Project.

CHARLES R. HOPPIN, CHAIRMAN | THOMAS HOWARD, EXECUTIVE DIRECTOR

1001 I Street, Sacramento, CA 95814 | Mailing Address: P.O. Box 100, Sacramento, CA 95812-0100 | www.waterboards.ca.gov

♻️ RECYCLED PAPER

10. This comment does not address the adequacy of the CEQA document; therefore no response is necessary. The comment letter has been forwarded to the applicant City Department that is preparing the "CEQA-Plus" materials required for the CWSRF Program.

It is important to note that prior to a CWSRF funding commitment, projects are subject to provisions of the Federal Endangered Species Act, and must obtain Section 7 clearance from the U.S. Fish and Wildlife Service (USFWS), and/or National Marine Fisheries Service (NMFS) for any potential effects to special status species. Please be advised that the State Water Board will consult with USFWS, and/or NMFS regarding all federal special status species the Project has the potential to impact if the Project is to be funded under the CWSRF Program.

The City will need to identify whether the Project will involve any direct effects from construction activities or indirect effects, such as growth inducement, that may affect federally listed threatened, endangered, or candidate species that are known, or have a potential to occur on-site, in the surrounding areas, or in the service area, and to identify applicable conservation measures to reduce such effects.

In addition, CWSRF projects must comply with federal laws pertaining to cultural resources, specifically Section 106 of the National Historic Preservation Act. The State Water Board has responsibility for ensuring compliance with Section 106 and the State Water Board's Cultural Resources Officer (CRO) must consult directly with the California State Historic Preservation Officer (SHPO). SHPO consultation is initiated when sufficient information is provided by the CWSRF applicant. Please contact the CRO, Ms. Cookie Him, at (916) 341-5690, to find out more about the requirements, and to initiate the Section 106 process if the City decides to pursue CWSRF financing. Note that the City will need to identify the Area of potential Effects (APE), including construction and staging areas and the depth of any excavation. The APE is three-dimensional and includes all areas that may be affected by the Project. The APE includes the surface area and extends below ground to the depth of any Project excavations. The records search request should be made for an area larger than the APE. The appropriate area varies for different projects but should be drawn large enough to provide information on what types of sites may exist in the vicinity.

Other federal requirements pertinent to the Project under the CWSRF Program include the following:

- A. Compliance with the federal Clean Air Act: (a) Provide air quality studies that may have been done for the Project; and (b) if the Project is in a nonattainment area or attainment area subject to a maintenance plan; (i) provide a summary of the estimated emissions (in tons per year) that are expected from both the construction and operation of the Project for each federal criteria pollutant in a nonattainment or maintenance area, and indicate if the nonattainment designation is moderate, serious, or severe (if applicable); (ii) if emissions are above the federal de minimis levels, but the Project is sized to meet only the needs of current population projections that are used in the approved State Implementation Plan for air quality, quantitatively indicate how the proposed capacity increase was calculated using population projections.
- B. Compliance with the Coastal Zone Management Act: identify whether the Project is within a coastal zone and the status of any coordination with the California Coastal Commission.
- C. Protection of Wetlands: Identify any portion of the proposed Project area that may contain areas that should be evaluated for wetlands or U.S. waters delineation by the U.S. Army Corps of Engineers (USACE), or require a permit from the USACE, and identify the status of coordination with the USACE.
- D. Compliance with the Migratory Bird Treaty Act: List any birds protected under this Act that may be impacted by the Project and identify conservation measures to minimize impacts

STATE WATER RESOURCES CONTROL BOARD (9/10/2011)

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The State Water Board has no comments at this time. Thank you for the opportunity to review the City's IS/MND. If you have any questions or concerns, please feel free to contact me at (916) 341-5855 or akashkoli@waterboards.ca.gov, or Terry Singleton at (916) 341-5686 or TSingleton@waterboards.ca.gov.

STATE WATER RESOURCES CONTROL BOARD (9/10/2011)

Sincerely,



Ahmad Kashkoli
Environmental Scientist

cc: State Clearinghouse w/o enclosures
(Re: SCH# 2011091045)
P. O. Box 3044
Sacramento, CA 95812-3044

bcc: Lisa Lee, DFA
Cookie Hirn, DFA
Ahmad Kashkoli, DFA
Pete Mizera, DFA

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Enclosures (4)

1. SRF & CEQA-Plus Requirements
2. Quick Reference Guide to CEQA Requirements for State Revolving Fund Loans
3. Instructions and Guidance for "Environmental Compliance Information"
4. Basic Criteria for Cultural Resources Reports



STATE OF CALIFORNIA
 Governor's Office of Planning and Research
 State Clearinghouse and Planning Unit

Edmund G. Brown Jr.
 Governor



Ken Alex
 Director

RESPONSE TO COMMENTS

CALIFORNIA STATE CLEARING HOUSE AND PLANNING UNIT (10/14/2011)

October 14, 2011

Jeffrey Szymanski
 City of San Diego
 1222 First Avenue, MS-501
 San Diego, CA 92101

Subject: Citywide Pipeline Projects 2011
 SCH#: 2011091045


Dear Jeffrey Szymanski:

11. The enclosed comment (s) on your Mitigated Negative Declaration was (were) received by the State Clearinghouse after the end of the state review period, which closed on October 13, 2011. We are forwarding these comments to you because they provide information or raise issues that should be addressed in your final environmental document.

12. The California Environmental Quality Act does not require Lead Agencies to respond to late comments. However, we encourage you to incorporate these additional comments into your final environmental document and to consider them prior to taking final action on the proposed project.

Please contact the State Clearinghouse at (916) 445-0613 if you have any questions concerning the environmental review process. If you have a question regarding the above-named project, please refer to the ten-digit State Clearinghouse number (2011091045) when contacting this office.

Sincerely,


 Scott Morgan
 Director, State Clearinghouse

Enclosures
 cc: Resources Agency

11. The City acknowledges that the comment letter from The California Department of Fish and Game (CDFG) was received after the end of the state review period ended.
12. The City responses to the CDFG comment letter are included herein.

1400 TENTH STREET P.O. BOX 3044 SACRAMENTO, CALIFORNIA 95812-3044
 TEL (916) 445-0613 FAX (916) 328-3018 www.opr.ca.gov



State of California -The Natural Resources Agency
 DEPARTMENT OF FISH AND GAME
 South Coast Region
 3883 Ruffin Road
 San Diego, CA 92123
 (858) 467-4201
 www.dfg.ca.gov

EDMUND G. BROWN, JR. Governor
 CHARLTON H. BONHAM, Director



late
 10/13/2011
 e

RESPONSE TO COMMENTS

CALIFORNIA DEPARTMENT OF FISH AND GAME (10/13/2011)

October 11, 2011

Mr. Jeffery Szymanski
 City of San Diego
 Development Services Center
 1222 First Avenue, MS 501
 San Diego, CA 92101



Subject: Comments on the Draft Mitigated Negative Declaration for Citywide Pipeline Projects, City of San Diego, San Diego County, California (Project No. 255100; SCH #2011091046)

Dear Mr. Szymanski:

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The Department of Fish and Game (Department) has reviewed the above-referenced draft Mitigated Negative Declaration (MND), dated September 14, 2011. The comments provided herein are based on information provided in the draft MND, our knowledge of sensitive and declining vegetation communities in the County of San Diego, and our participation in regional conservation planning efforts.

The following statements and comments have been prepared pursuant to the Department's authority as Trustee Agency with jurisdiction over natural resources affected by the project (CEQA Guidelines §15386) and pursuant to our authority as a Responsible Agency under CEQA Guidelines Section 15381 over those aspects of the proposed project that come under the purview of the California Endangered Species Act (Fish and Game Code §2050 et seq.) and Fish and Game Code Section 1800 et seq. The Department also administers the Natural Community Conservation Planning Program (NCCP). The City of San Diego (City) participates in the NCCP program by implementing its approved Multiple Species Conservation Program (MSCP) Subarea Plan.

The proposed project covers five near-term pipeline projects (Harbor Drive Pipeline, Water Group 949, Sewer Group 787, Water Group 914, and Sewer/Water Group 732), as well as any subsequent future pipeline projects. The project description specifies that the construction footprint for a typical pipeline project, including staging areas and other areas (such as access) would be located within City Public Right-of-Way (PROW) and/or within public easements and may include planned pipeline construction with private easements from the PROW to the service connection. The types of projects evaluated in the analysis consists of sewer and water group jobs, trunk sewers, large diameter water pipeline projects, manholes and other necessary appurtenances. The project scope defines that all associated equipment would be staged in existing PROW adjacent to the proposed work area(s). The project analysis concludes that no impact would occur to Sensitive Biological Resources or Environmentally Sensitive Lands as defined by the Land Development Code and the project would not encroach into the City's Multi-Habitat Planning Area (MHPA).

Conserving California's Wildlife Since 1870

We offer our recommendations and comments to assist the City in avoiding, minimizing, and adequately mitigating project related impacts to biological resources, and to ensure that the project is consistent with ongoing regional habitat planning efforts.

CALIFORNIA DEPARTMENT OF FISH AND GAME (10/13/2011) continued

- 3.
1. The initial study references that along with the environmental analysis that covers the five near-term pipeline projects, any subsequent future pipeline projects would be reviewed for consistency with the analysis covered in the Citywide Pipeline Project MND. Further, the initial study states "Where it can be determined that the project is "consistent" with the MND and no additional potential significant impacts would occur pursuant to State CEQA Guideline §15162 (i.e., the involvement of new significant environmental effects of a substantial increase in the severity of previously identified effects) or if the project would result in minor technical changes or additions, then an Addendum to this MND would be prepared pursuant to §15164. Where future projects are found not to be consistent with this MND, then a new Initial Study and project specific MND shall be prepared." From a substantive and procedural context of CEQA, the Department considers the application of all forthcoming analysis covering "any subsequent future pipeline projects" as tiering upon the project MND; consequently we consider the City's environmental determination problematic. Lacking supplemental guidance from the lead agency, the Department interprets this approach as essentially "tiering" upon this MND as all similar types of "future pipeline projects" will be processed under an addendum to the adopted document. If it is the City's intent to tier upon this MND and apply it to those future pipeline projects, we would focus attention to CEQA Guidelines, Section 15152(b) and Public Resources Code, Sections 21093-21094, which defines tiering as being appropriate when the sequence of analysis is from an environmental impact report (EIR) prepared for a general plan, policy, or program to an EIR or negative declaration for another plan, policy or program of lesser scope, or to a site-specific EIR or negative declaration. Additionally, we would highlight Public Resources Code, Section 21166 which precludes any future projects with significant impact from tiering.

Based on the relevant CEQA sections cited above, the City's approach to essentially "tier" upon this MND has not been fully supported in the analysis. The presumption provided in the initial study is that at the time when the City can determine that any forthcoming project is "consistent" with the baseline analysis provided in the project MND, any subsequent CEQA analysis/processing would be limited to preparing an Addendum to this MND. In contrast, when considering CEQA Guidelines, Section 15162(a), we believe that it has been misapplied as currently explained in the processing guidance provided in this MND (i.e., §15162 is being applied to cover future projects when clearly the intent of §15162 is limited to a single project). Therefore, we request that the City reevaluate the statutory mandates under the CEQA and the circumstances for when any subsequent future pipeline projects could be processed from an adopted environmental document.

- 4.
2. The biological resources analysis determined that for those five near-term projects that are located within the public right-of-way no significant project-related impacts on biological resources would occur. Compliance with CEQA is predicated on a complete and accurate description of the "environmental setting" that may be affected by the proposed project. We feel there is limited information in adequately defining (1) over-all width of the PROW (e.g., are there areas of the PROW that extend outside existing paved roadways); (2) proximity to environmentally sensitive lands to the PROW; and (3) accurate environmental baseline conditions of all proposed staging areas (which should include a qualified biologist evaluating those existing site conditions). Absent a complete and accurate description of the existing physical conditions in and around all of the projects, we believe relying on the current environmental determination in this MND could result in an incomplete or inaccurate

13. The discussion within CEQA Guidelines section 15152(B) discusses tiering documents in terms of EIRs; however, the section does not definitively state that tiering documents require the preparation of an EIR and often times the term EIR is used universally to refer to MNDs and NDs. (*See also* Guidelines section 15152 (b): "Agencies are encouraged to tier the environmental analyses which they prepare for separate but related projects ...") Please refer to CEQA Guidelines section 15064 (Determining the Significance of the Environmental Effects Caused by a Project) which clearly states when the preparation of an EIR would be required. In accordance with CEQA Guidelines section 15064(a)(1) a draft EIR is prepared when there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment. Guidelines section 15064 (f)(3) also provides: "(3) If the lead agency determines there is no substantial evidence that the project may have a significant effect on the environment, the lead agency shall prepare a negative declaration (*Friends of B Street v. City of Hayward* (1980) 106 Cal. App. 3d 988).

In accordance with CEQA Guidelines section 15063 the City conducted an Initial Study of the Citywide Pipeline project and it was determined that the project, with mitigation, would not result in significant unmitigated impacts and an MND was prepared.

In addition, the comment letter from CDFG states that Public Resources Code, section 21166 precludes future projects with significant impacts from tiering. As mentioned above, an Initial Study was conducted and significant impacts were not identified which could not be mitigated to below a level of significance.

The MND analyzes Citywide pipeline projects on a "programmatic" level (i.e., as a whole at a broad level of detail), but also analyzes the proposed projects on a site-specific basis where appropriate. As stated in the draft MND subsequent pipeline projects located within the developed public right of way will be reviewed and where it can be determined that the project is consistent with the MND pursuant to CEQA Guidelines section 15162 any necessary CEQA document will be prepared or if the project would result in minor technical changes or additions, then an Addendum to this MND would be prepared pursuant to CEQA Guidelines section 15164. Pursuant to CEQA Guidelines section 15162 the Lead Agency has the ability to analyze proposed projects with previously certified environmental documents and neither CEQA Guidelines sections 15162 or 15164 limit the application to an individual project. In fact, CEQA Guidelines section 15162 (b) states: "If changes to a project or its circumstances occur or new information becomes available after adoption of a negative declaration, the lead agency shall prepare a subsequent EIR if required under subdivision (a). Otherwise the lead agency shall determine whether to prepare a subsequent negative declaration, an addendum, or no further documentation."

The City has utilized this procedure numerous times in the past without challenge. We note that CDFG has used the programmatic MND procedure in the past as well. However, we welcome your additional input on this issue as we continue to evaluate the statutory mandates under CEQA and the circumstances for when any subsequent future pipeline projects could be processed from an approved environmental document as you requested we do in your October 11, 2011 comment letter.

CALIFORNIA DEPARTMENT OF FISH AND GAME (10/13/2011) continued

analysis of project-related environmental impacts by the City. Also, the initial study discusses that near-term projects may be located in close proximity to, or adjacent to the City's MHPA, but not within the MHPA. The CEQA is intended to foster informed public decision making; therefore we believe that it would have been appropriate to include corresponding figures in the initial study that depict the MHPA boundaries in relationship to all of the anticipated construction-related activities. There is the intent provided in the MND to avoid any direct, indirect and cumulatively significant impacts to environmentally sensitive lands, however whether there is sufficient information provided in the environmental analysis to demonstrate that condition remains in question. Additionally, in evaluating the MHPA Land Use Adjacency Guidelines that were provided in the MND, there are a number of referrals for development within or adjacent to the MHPA. If it is correct that the near-term projects would entirely avoid the MHPA then it appears appropriate for the mitigation language to specifically state that condition.

15. 3. The initial study identifies that construction for the near-term projects is anticipated to occur during the daytime hours. Should there be any potential for construction activities to occur during evening hours then the mitigation measures that are currently provided in the MND for addressing indirect effects to MHPA preserve lands should be revised to include conditions that specify that all auxiliary construction-related lighting shall be shielded in proximity to the MHPA.

The Department requests the opportunity to review any revision to MND prior to finalization to ensure that the comments and recommendations, contained herein, are adequately addressed. We appreciate the opportunity to comment on the MND for this project and to assist the City in further minimizing and mitigating project impacts to biological resources. If you have questions or comments regarding this letter, please contact Paul Schlitt of the Department at (858) 637-5510.

Sincerely,



Edmund Pert
Regional Manager
South Coast Region

cc: State Clearinghouse, Sacramento
Patrick Gower, USFWS, Carlsbad
Paul Schlitt, San Diego

14. The MND and Initial Study Checklist have been updated to include a thorough description of the projects that are adjacent to the MHPA. In addition, a graphic have been added for Group Job 949 - Site 2 which depicts the project location in relation to the MHPA. The Land Use Adjacency Guidelines (LUAGL) provides additional assurances that development adjacent to the MHPA would not result in direct or indirect edge effects from construction related activities. No projects have been or will be implemented under this MND which are within the MHPA. The LUAGL measures would be implemented when a pipeline project is within 100 feet from the edge of the MHPA and would be monitored for compliance by a qualified biological consultant. The MHPA LUAGL measures in the MND have been modified to eliminate references to "within the MHPA." Please note however, that many existing paved public right-of-ways may cross over areas mapped within the MHPA but would not result in any direct impacts to the MHPA. Please note that Sewer Group 787, which is adjacent to the MHPA, has been removed from this project.
15. Please see section A. I. 5. of the Land Use MMRP in the MND which requires adequate shielding to protect sensitive habitat. In addition, section A. III. A. 3. of the Land Use MMRP in the MND requires that periodic night inspections be conducted to verify that all lighting adjacent to the MHPA be directed away from the Preserve.



San Diego County Archaeological Society, Inc.

Environmental Review Committee

5 October 2011

SAN DIEGO COUNTY ARCHAEOLOGICAL SOCIETY, INC (10/5/2011)

To: Mr. Jeffrey Szymanski
Development Services Department
City of San Diego
1222 First Avenue, Mail Station 501
San Diego, California 92101

Subject: Draft Mitigated Negative Declaration
Citywide Pipeline Project -- 2011
Project No. 255100

Dear Mr. Szymanski:

I have reviewed the subject DMND on behalf of this committee of the San Diego County Archaeological Society.

Based on the information in the DMND and initial study, we have the following comments:

- 16. 1. It is not clear why Water Group 949 does not include archaeological monitoring mitigation measures for some or all of the portions where the line is installed in new trenches.
- 17. 2. The last sentence of cultural resources mitigation measure IV.5.d appears to be missing one or more words. The portion in question currently reads "...appropriate treatment measures the human remains and buried with Native American human remains..."

Thank you for the opportunity to review and comment upon this DMND.

Sincerely,

James W. Royle, Jr., Chairperson
Environmental Review Committee

cc: SDCAS President
File

P.O. Box 81106 • San Diego, CA 92138-1106 • (658) 538-0935

- 16. Water Group 949 would be located in three different areas within the City of San Diego: Skyline-Paradise Hills, University/Clairemont Mesa, and Greater Golden Hill/ Barrio Logan. New trenching would only occur in the Clairemont Mesa area, and existing previously excavated trenches would be utilized in the Greater Golden Hill/Barrio Logan and Skyline-Paradise Hills areas of the City. The University/Clairemont Mesa area is not located on the City of San Diego's Historical Sensitivity Map and therefore archaeological monitoring would not be required for this project segment. As mentioned previously, the existing trenches would be utilized in the other areas where native soils have already been disturbed. Therefore, archaeological monitoring would not be required in these areas.
- 17. Comment noted. Staff has reviewed the section from the MMRP and determined that the language in subsection "d" came directly from the Public Resources Code and three words were somehow omitted when this section of the City MMRP was created. The missing words have been added to section IV.C.5.d of the archaeological MMRP and shown in underline format. The master MMRP has been updated and EAS staff have been notified of the revision for future environmental documents.

RINCON BAND OF LUISEÑO INDIANS

Culture Committee

P.O. Box 68 • Valley Center 92082 • (760) 297-2621 (760) 297-2629 fax



RESPONSE TO COMMENTS

September 28, 2011

RINCON BAND OF LUISEÑO INDIANS (9/28/2011)

To whom it may concern

18. On behalf of the Rincon Band of Luiseño Indians, I have received your letter. We thank you for informing us of the projects you propose and for including us in your research for cultural resource identification on the property. However the area is not in the Luiseño Tribe's territory. We highly recommend that you seek the assistance of the tribes that are located in the area of potential effect.

19. Although the Rincon Band of Luiseño Indians does not have cultural significance in this area; we would like to recommend the following guidelines. The first recommendation is to contact the tribes in the territory to receive instructions on how to handle any findings appropriately according to their custom and tradition. Second to have Native American site monitors on site to identify artifacts that may be found during any ground disturbance in order to have the artifacts handled with dignity and respect; should human remains be discovered follow the California Resource Code 5097.98 and the procedures in this section.

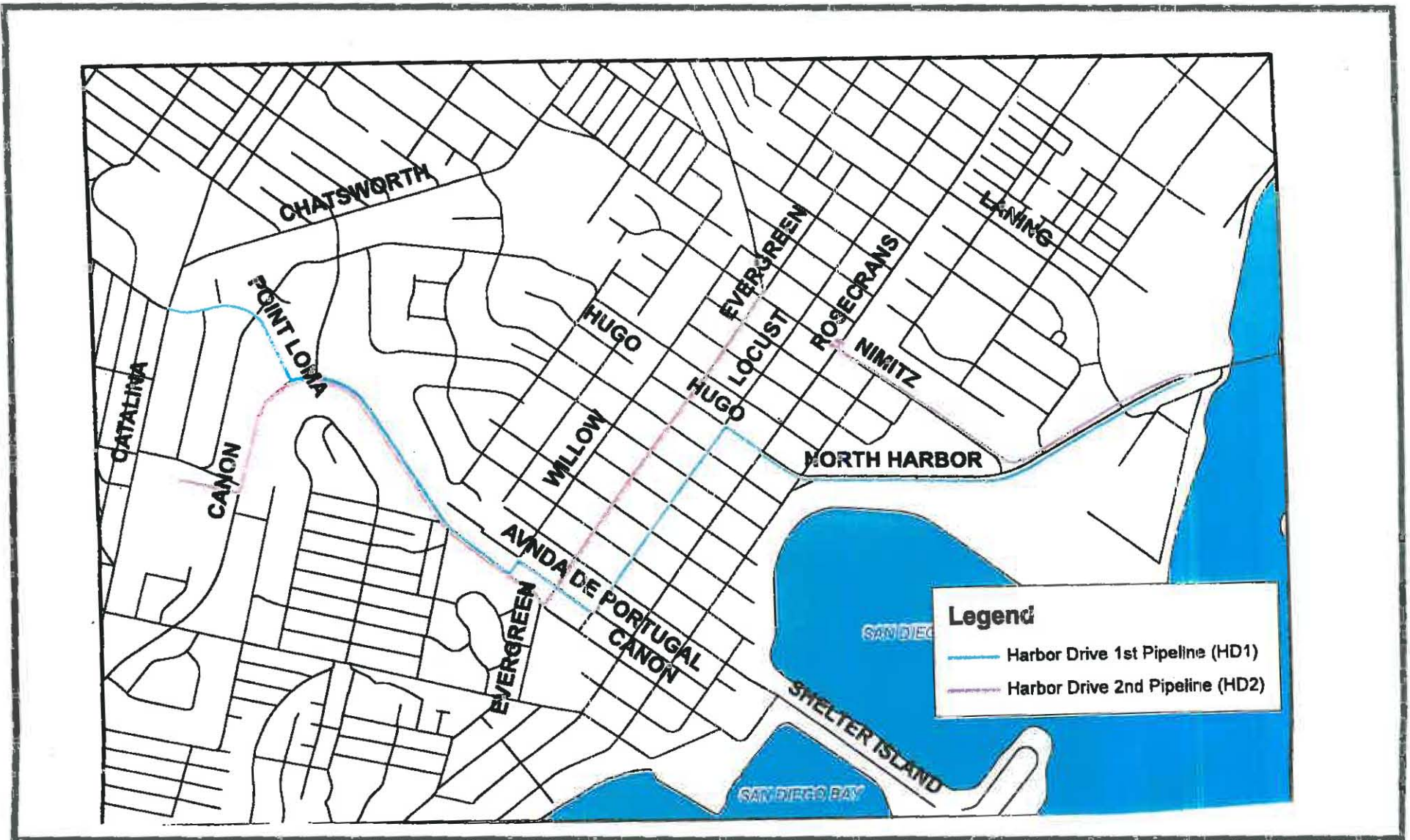
Once again thank you for informing of your project and keeping Native Americans informed of these projects. We wish you success in your endeavors and hope the project is completed with the satisfaction of all parties involved.

Sincerely,

Rose Duro
Rincon Culture Committee Chair

18. Comment noted. Please see Response to Comment 5. The draft MND was sent to all individuals on the recommended list from the NAHC, with the exception of the Inter-Tribal Cultural Resource Council, this group will be included in the distribution of the final MND.
19. Please see section B of the General Requirements of the MND and Section A. 1. of the Historical Resources section of the MMRP which requires Native American monitors to be present on-site during all construction related activities.

Bo Mazzetti Tribal Chairman	Stephanie Spencer Vice Chairwoman	Charlie Kolb Council Member	Steve Stallings Council Member	Laurie Gonzales Council Member
--------------------------------	--------------------------------------	--------------------------------	-----------------------------------	-----------------------------------



Legend

- Harbor Drive 1st Pipeline (HD1)
- Harbor Drive 2nd Pipeline (HD2)



Citywide Pipeline Projects-Project No. 255100

Harbor Drive Pipeline / Project No. 206100

City of San Diego – Development Services Department

FIGURE
No. 1



LOCATION MAP/ ORTHO PHOTOGRAPHY MAP

WATER GROUP JOB 949 SITE 2

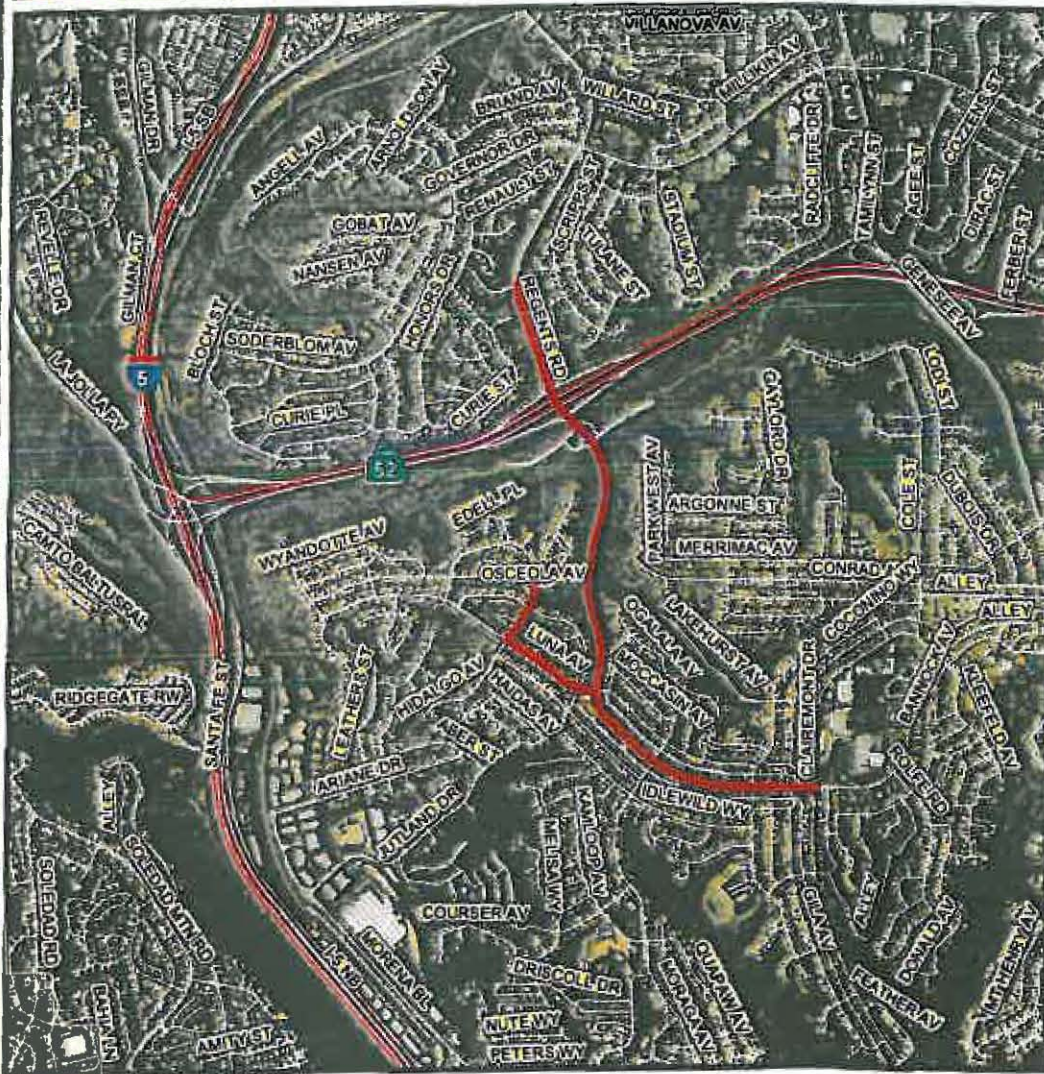
SENIOR ENGINEER
RANIA AMEN
(619) 533-5482

PROJECT MANAGER
AKRAM BASSYOUNI
(619) 533-6902

PROJECT ENGINEER
CECILIA MARISTELA
(619) 533-7420



Project Implementation & Technical Services (PITS)
CP: Preliminary Engineering & Program Coordination



Legend

 Water Group Job 949 Site 2



No Scale

84978PITS-CP-Preliminary-Engineering-and-Program-Coordination-Design-Water & Sewer Projects-Water Projects-Water Group 949 - 02-2019 Tracking-Location Map



Citywide Pipeline Project-Project No. 255100

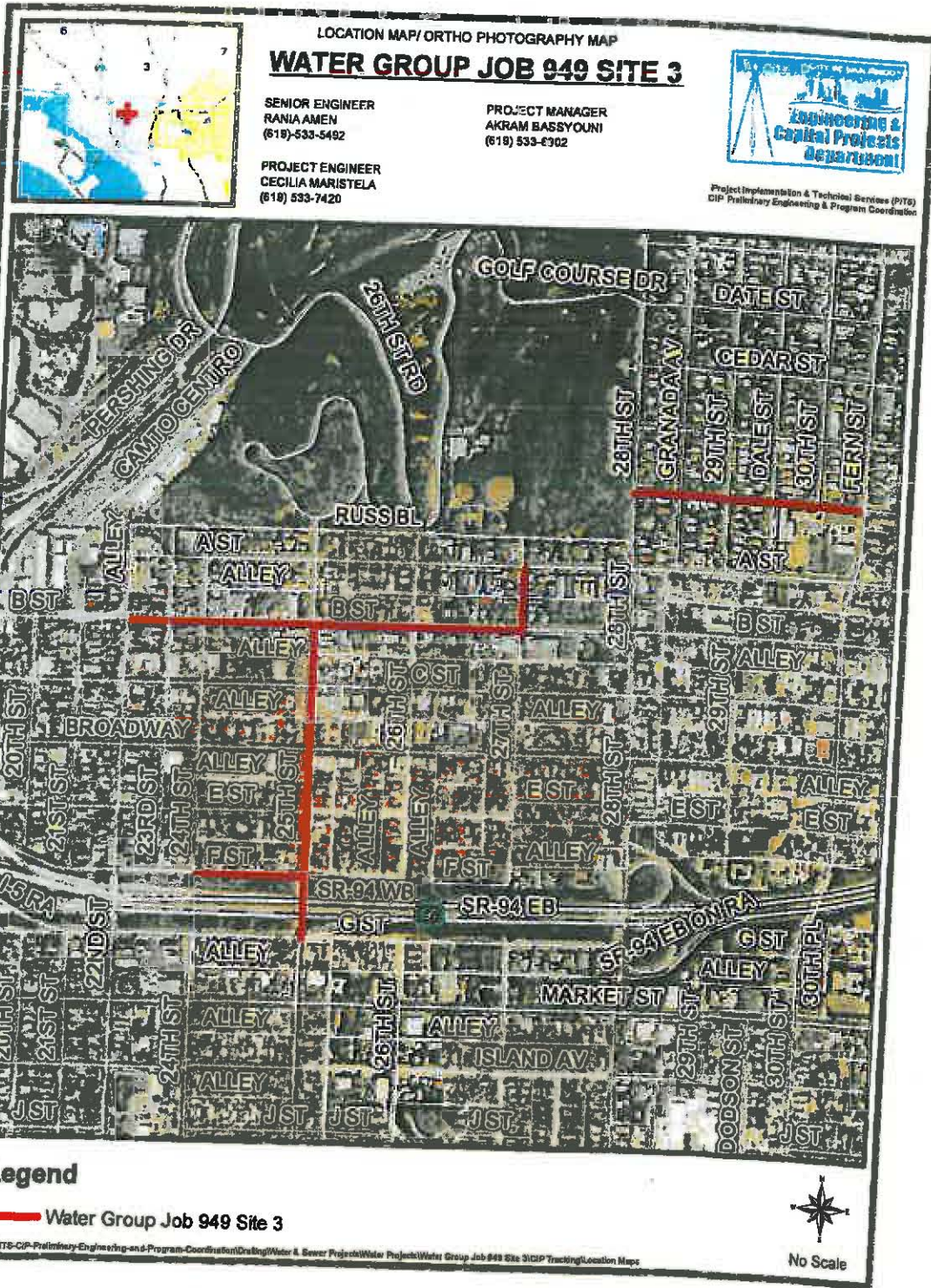
Water Group 949 Site 2/Project No. 232719

Appendix A - Mitigated Negative Declaration - Water Group Job 949

City of San Diego - Development Services Department

FIGURE

No. 3



Citywide Pipeline Project-Project No. 255100

Appendix Water Group Job 949 Site 3/Project No. 232719

City of San Diego – Development Services Department

FIGURE

No. 4

157 | Page

Sewer Group 787

SENIOR ENGINEER
Carl Spler
619-533-5126

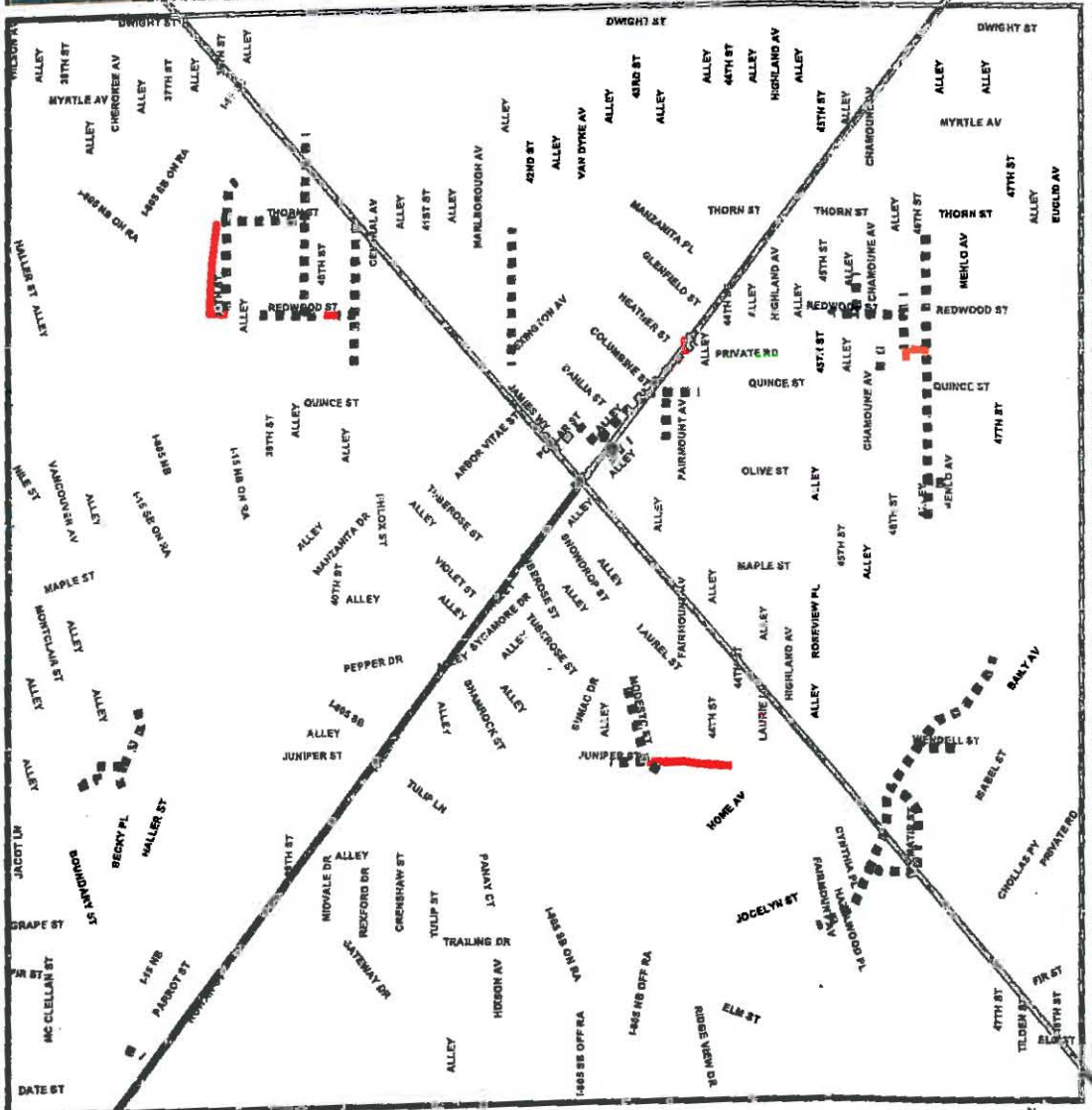
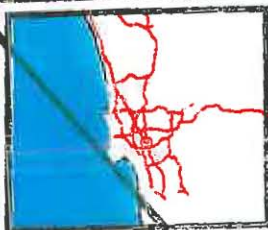
PROJECT MANAGER
Regan Owen
619-533-5205

PROJECT ENGINEER
Matthew DeBeliso
619-533-5286

PUBLIC INFORMATION OFFICER
HOTLINE
619-533-4207



Public Works Dept



Legend

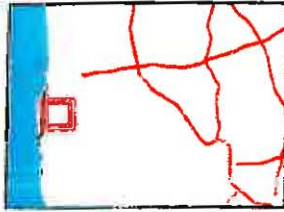
- Sewer_Group_787
- Sewer_Group_787_Abandonment



Citywide Pipeline Project-Project No. 255100

Sewer Group 787/Project No. 231928
City of San Diego – Development Services Department





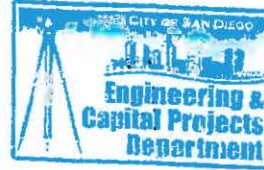
**WATER GROUP 914
WATER MAIN REPLACEMENT**

SENIOR ENGINEER
WENDY GAMBOA
(619) 236-1871

PROJECT ENGINEER
ROBERTO VEJAR-PARRA
(619) 533-5402

PROJECT MANAGER
MICHAEL NINH
(619) 533-7443

**PUBLIC INFORMATION
HOTLINE**
(619) 533-4207



OCEAN BEACH / PENINSULA

COUNCIL DISTRICT: 02

WBS NO.: B-00125 (W)

LEGEND

- REPLACE IN PLACE EXIST. WATER MAIN
- PROP. NEW WATER MAIN
- PROP. TRENCHLESS WATER
- PROP. NEW PRESSURE REGULATOR STATION (PRS)
- EXISTING WATER MAINS



Citywide Pipeline Projects-Project No.

255100

Appendix J - Mitigated Negative Declaration Water Group Job 959

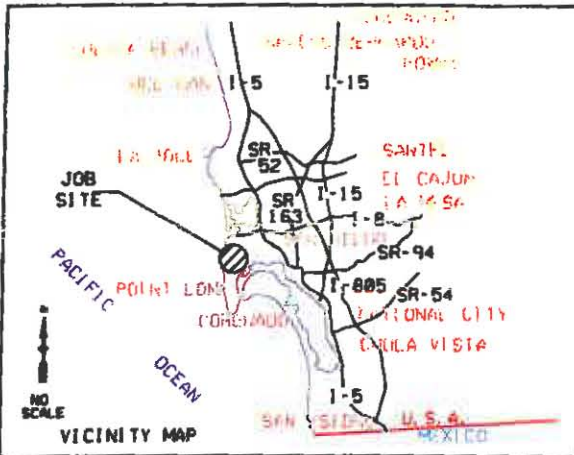
Water Group 914 / Project No. 233447

City of San Diego, Development Services Department

FIGURE

No. 6

159 | Page

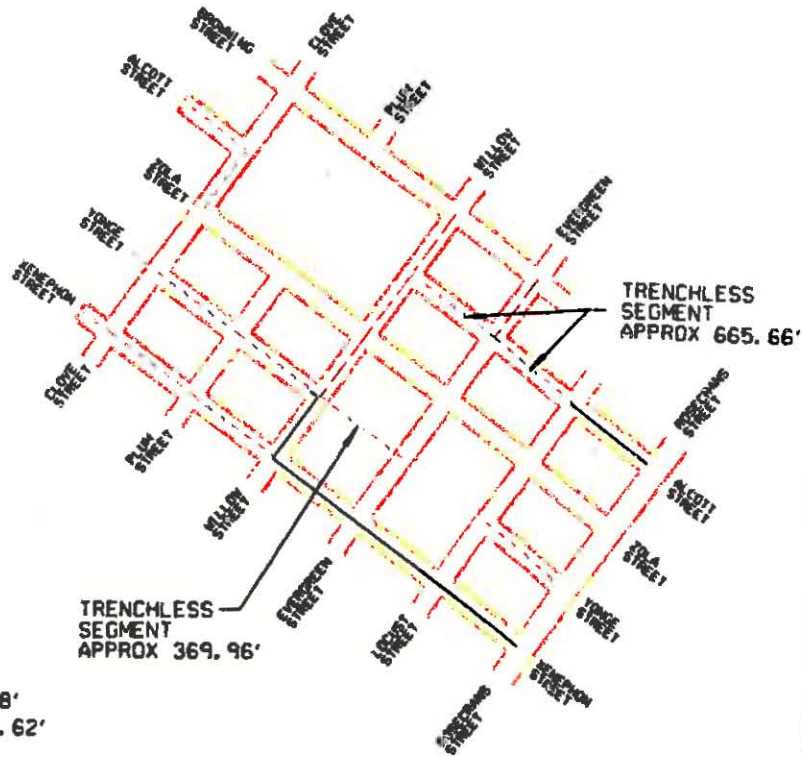


PROJECT ENGINEER
DANIEL TITTLE
☎ 533-7468

SENIOR ENGINEER
CARL SPIER
☎ 533-5126

PROJECT MANAGER
HUNG HUYNH
☎ 235-1979

SEWER & WATER MAIN
REPLACEMENT
GROUP 732
SITE MAP



NOTE: SEWER MAINS
TYPICAL METHODS 4,459.38'
TRENCHLESS APPROX 1,035.62'

- LEGEND:
- WATER MAIN REPLACEMENT
 - SEWER MAIN REPLACEMENT
 - WATER & SEWER MAIN REPLACEMENT

06-21-11 OEM



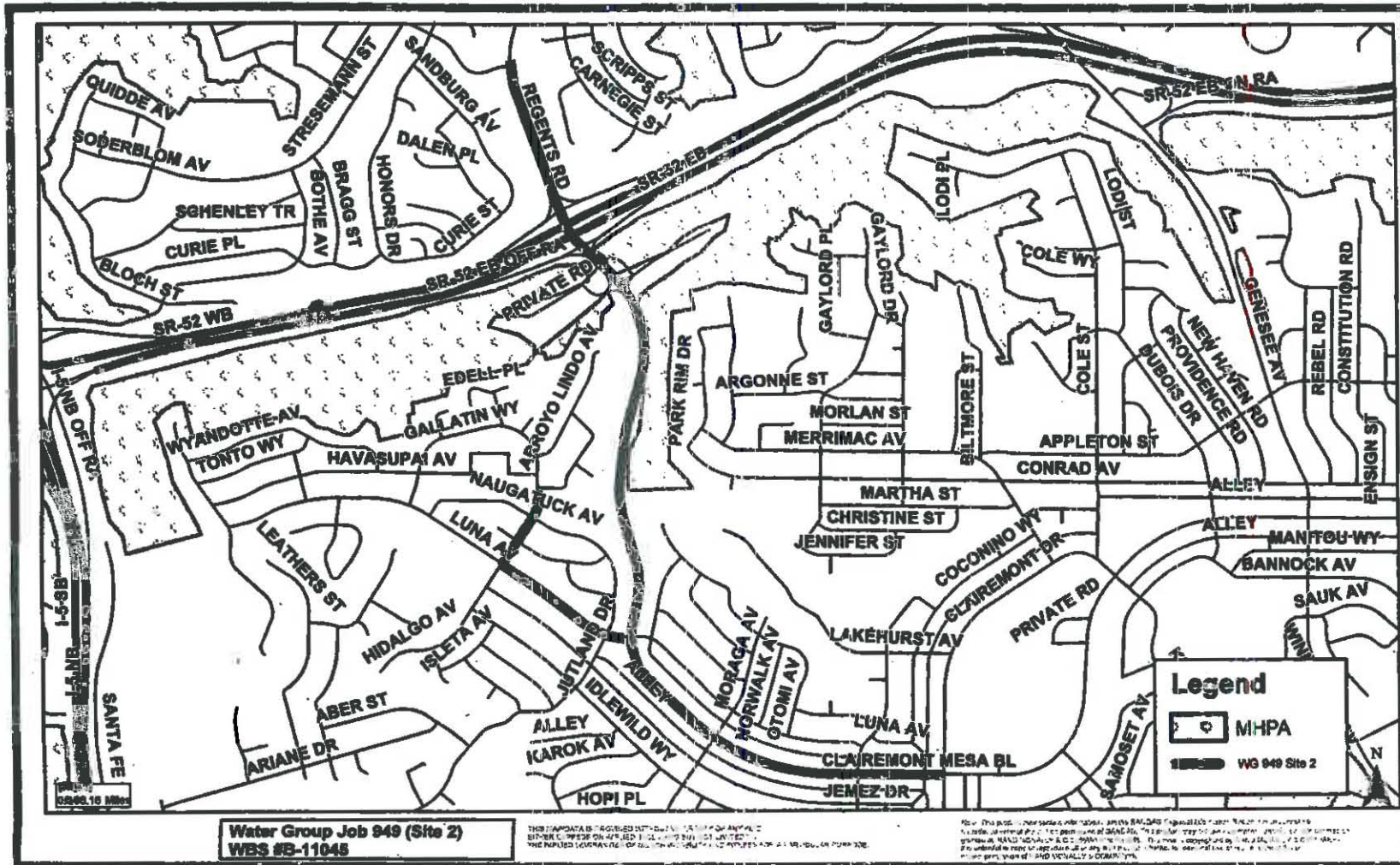
Citywide Pipeline Projects-Project No.
255100

Appendix Water and Sewer Department Water Group 732

City of San Diego – Development Services Department

FIGURE

No. 7



Water Group Job 949 (Site 2)
WBS #B-11048

Legend

- MHPA
- WG 949 Site 2



Citywide Pipeline Project-Project No. 255100

Water 949 Site 2/ Project No. 232719

City of San Diego – Development Services Department

FIGURE

No. 8

INITIAL STUDY CHECKLIST

1. Project Title/Project number: Citywide Pipeline Projects
2. Lead agency name and address: City of San Diego, Development Services Department, 1222 First Avenue, MS 501, San Diego, CA 92101
3. Contact person and phone number: Jeff Szymanski, Associate Planner, 619-446-5324
4. Project location: Near-term and future projects would be located within various public right-of-ways (PROW) within any community planning areas in the City of San Diego. All project sites and areas of potential affect would not support *Sensitive Biological Resources* as defined in the Land Development Code (LDC) §143.0110. Project locations may be within the State Coastal Zone and/or within the City of San Diego's Coastal Zone and/or within Designated Historic Districts. Project locations and the associated areas of potential affect may be adjacent to, but not encroach into the Multi-Habitat Planning Area (MHPA). Specific locations for near-term projects analyzed in this document are included below under Item 8 – Description of Project.
5. Project Applicant/Sponsor's name and address: City of San Diego, Engineering & Capital Projects Department, ~~City of San Diego Public Utilities Department - Water Department and City of San Diego Metropolitan~~ Waste Water Division (MWWD).
6. General Plan designation: City of San Diego Public Right-of-Way (PROW) land is not a designated land use in the General Plan. However, Right-of-Way is categorized as Road/Freeways/Transportation Facilities in the General Plan.
7. Zoning: Near-term and future projects would take place within various Public Right-of-ways and public easements within the City of San Diego. Adjacent zoning may include, but would not be limited to Open Space, Residential, Agricultural, Commercial, and Industrial.
8. Description of project (Describe the whole action involved, including but not limited to, later phases of the project, and any secondary, support, or off-site features necessary for its implementation.): COUNCIL APPROVAL to allow for the replacement, rehabilitation, relocation, point repair, new trenching, trenchless construction, and abandonment of water and/or sewer pipeline alignments and associated improvements such as curb ramps, sewer lateral connections, water service connections, manholes, new pavement/slurry, the removal and/or replacement of street trees and the removal and/or replacement of street lights. This environmental document covers the analysis for ~~five~~ four (5) (4) near-term pipeline projects (Harbor Drive Pipeline, Water Group 949, ~~Sewer Group 787~~, Water Group 914, and Sewer/Water Group 732), as well as any subsequent future pipeline projects. The construction footprint for a typical pipeline project, including staging areas and other areas (such as access) would be located within the City of San Diego Public Right-of-Way (PROW) and/or within public easements and may include planned pipeline construction within private easements from the PROW to the service connection. A signed agreement between the City and the property owner would be required for work conducted on private property. Project types that would be included in the analysis contained herein would consist of sewer and water group jobs, trunk sewers, large diameter water pipeline

projects, new and/or replacement manholes, new/or replacement fire hydrants, and other necessary appurtenances. All associated equipment would be staged within the existing PROW adjacent to the work areas. The near-term and future projects covered in the document would not impact *Sensitive Biological Resources* or *Environmentally Sensitive Lands (ESL)* as defined in the Land Development Code and would not encroach into the City's Multi-Habitat Planning Area (MHPA).

Construction for the near-term and any future projects is anticipated to occur during the daytime hours Monday through Friday, but may occur during the weekend, if necessary. The contractor would comply with all applicable requirements described in the latest edition of the *Standard Specifications for Public Works Construction ("GREENBOOK")* and the latest edition of the *City of San Diego Standard Specifications for Public Works Construction ("WHITEBOOK")*. The City's supplement addresses unique circumstances to the City of San Diego that are not addressed in the GREENBOOK and would therefore take precedence in the event of a conflict. The contractor would also comply with the California Department of Transportation *Manual of Traffic Controls for Construction and Maintenance Work Zones*. If the Average Daily Traffic (ADT) within a given project(s) vicinity is 10,000 ADT or greater, 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*. For proposals subject to 10,000 ADT or less, traffic control may be managed through shop drawings during construction. Construction methods to be employed would consist of, but not be limited to:

Open Trenching: The open trench method of construction would be used for complete replacement and new alignment portions of the project. Trenches are typically four feet wide and are dug with excavations and similar large construction equipment.

Rehabilitation: Rehabilitation of alignment involves installing a new lining in old pipelines. The insertion is done through existing manhole access points and does not require removal of pavement or excavation of soils.

Abandonment: Pipeline abandonment activities would be similar to rehabilitation methods in that no surface/subsurface disturbance would occur. This process may involve slurry or grout material injected into the abandoned lines via manhole access. The top portion of the manhole is then typically removed and the remaining space backfilled and paved over.

Potholing: Potholing would be used to verify reconnection of laterals to main where lines would be raised or realigned (higher than existing depth, but still below ground) or to verify utility crossings. These "potholes" are made by using vacuum type equipment to open up small holes into the street of pavement.

Point Repairs: Point repairs include replacing a portion of a pipe segment by open trench excavation methods in which localized structural defects have been identified. Generally, point repairs are confined to an eight-foot section of pipe.

The following near term project(s) have been reviewed by the City of San Diego, Development Services Department (DSD) for compliance with the Land Development Code and have been determined to be exempt from a Site Development Permit (SDP) and/or a Coastal Development Permit (CDP). These projects would involve excavation in

areas having a high resource sensitivity and potential for encountering archaeological and paleontological resources during construction related activities. Therefore, mitigation would be required to reduce potential significant impacts to archaeological and paleontological resources to below a level of significance. With respect to Storm Water, all projects would be reviewed for compliance with the City's Storm Water Standards Manual. All projects that are not-exempt from the Standard Urban Storm Water Mitigation Plan (SUSMP) would incorporate appropriate Permanent Best Management Practices (BMPs) and construction BMPs into the project design(s) and during construction, as required. As such, all projects would comply with the requirement of the Municipal Storm Water Permit.

HARBOR DRIVE PIPELINE (PROJECT NO. 206100)

The Harbor Drive Pipeline includes the replacement of 4.4 miles of 16-inch cast iron (CI) and asbestos cement (AC) pipe that comprises the Harbor Drive 1st and 2nd Pipelines (HD-1 and HD-2) at a depth no greater than five (5) feet. Facility age and cast iron main replacement are the primary drivers for these projects, but due to the history of AC breaks in the area, approximately 1.0 mile of AC replacement is also included. The project is anticipated to be awarded in Fiscal Year 2013.

HD-1 and HD-2 were built primarily in the 1940's and 1950's and were made out of cast iron or asbestos cement and serve the western most part of the University Heights 390 Zone and the northern section of the Point Loma East 260 Zone. The pipelines also serve as redundancy to each other. Several segments were replaced by various City of San Diego Public Utilities Department projects throughout the years and those segments are not a part of the current scope. Previously replaced segments were 16 inch PVC, except for the bridge crossing which used 24-inch CMLC. The pipeline is located entirely within the PROW, will not require any easements, and is not adjacent to the MHPA or located within any designated historical districts. The following streets would be affected by this project: West Laurel, Pacific Highway, North Harbor Drive (within the roadway, under the bridge and within landscape areas), Nimitz Boulevard, Rosecrans Street, Evergreen Street, Hugo Street, Locust Street, Canon Street, Avenida De Portugal, and Point Loma Avenue.

WATER GROUP 949 (PROJECT NO. 232719)

Water Group 949 would consist of the replacement and installation of 5.27 miles of water mains within the Skyline- Paradise Hills, University, Clairemont Mesa, Southeastern San Diego (Greater Golden Hills) community planning areas. 16,931 Linear Feet (LF) of 16-inch cast iron water mains would be replace-in-place with new 16-inch polyvinyl chloride (PVC) pipe within the existing trench. The remaining 10,913 LF of new 16-inch PVC would be installed in new trenches All work within Regents Road, Site 2 (Figure 8), adjacent to the MHPA would only occur within the developed footprint such as the paved right of way, and concrete sidewalk or slab areas. In addition, all work within 100 feet of the MHPA would observe mitigation such as but not limited to bird breeding season measures, avoidance of discharge to the MHPA, and avoidance of direct lighting towards the MHPA areas. As such, no impacts to MHPA and/or sensitive resources would occur. The project would also include replacement and reinstallation of valves, water services, fire hydrants, and other appurtenances and would also included the construction of curb ramps, and street resurfacing. Traffic control

measures and Best Management Practices (BMPs) would be implemented during construction. Any street tree removal, relocation, and/or trimming would be done under the supervision of the City Arborist. All staging of construction equipment will be located outside of any potentially sensitive areas. The following streets and nearby alleyways would be affected by this project: Tuther Way, Cielo Drive, Woodman Street, Skyline Drive, Regents Road, Hidalgo Avenue, Clairemont Mesa Boulevard, Luna Avenue, B Street, F Street, Ash Street, 25th Street, and 27th Street.

SEWER GROUP 787 (PROJECT NO. 231928)

~~Sewer Group 787 would consist of the replacement of 26,436 lineal feet (LF) of existing 16-inch cast iron sewer pipe with new 16-inch polyvinyl chloride (PVC) pipe within the existing trench. A total of 1,267 LF of new 16-inch PVC sewer alignment would be installed in new trenches. In addition, the project would abandon 1,606 LF of existing 16-inch cast iron pipe. The proposed project would be installed by conventional excavation (open trench) in trenches from 3-5 feet deep. The project would affect the following streets and nearby alleyways: 42nd Street, Monroe Avenue, Edgeware Road, Polk Avenue, Orange Avenue, Menlo Avenue, 47TH Street, Dwight Street, Myrtle Avenue, Manzanita Place, Heather Street, Dahlia Street, Poplar Street, Columbine Street, Pepper Drive, Juniper Street, Marigold Street, Sumac Drive, 44TH Street, Laurie Lane, and Roseview Place all within the City Heights and Kensington-Talmadge Community Planning Areas.~~

WATER GROUP 914 (PROJECT NO. 233447)

Water Group 914 would consist of the replacement and installation of approximately 21,729 lineal feet (LF) of existing 6-inch, 8-inch and 12-inch cast iron pipes and 6-inch asphalt concrete pipes with new 8-inch, 12-inch and 16-inch polyvinyl chloride (PVC) pipe. Also included would be the construction of two underground pressure regulator stations that measure 54 square-feet and 6.5 feet deep each. 17,472 LF would be located in existing trenches and 4,257 LF would be located in new trench lines. The proposed project would be installed by conventional excavation (open trench) in trenches from 3-5 feet deep. However two 300 LF parallel line sections (600 LF total) of the water alignment would be installed by trenchless methodology utilizing two (2) 40 square foot launch and receiver pits. The trenchless installation would occur at the intersection of Coronado Avenue and Ebers Street and is designed to avoid a recorded archaeological resource at this intersection. The trenchless methodology would employ directional underground boring that would install the pipe at a depth deeper than the recorded resource. In addition, a 4-inch AC water segment of approximately 520 LF located along Point Loma Avenue between Guizot Street and Santa Barbara Street will be abandoned in place. The project would affect the following streets and nearby alleyways: Point Loma Avenue, Santa Barbara Street, Bermuda Avenue, Pescadero Avenue, Cable Street, Orchard Avenue, Froude Street, Sunset Cliffs Boulevard, Savoy Circle, and Del Monte Avenue all within the Ocean Beach and Peninsula Community Planning Areas.

SEWER AND WATER GROUP 732 (PROJECT NO. 206610)

Sewer and Water Group Job 732 would consist of the installation of approximately 5,500 total linear feet (LF) of 8 inch Polyvinyl Chloride (PVC) sewer pipe, and approximately

3,000 total linear feet (LF) of 12 inch PVC water pipe. Approximately, 1,035 LF of water pipe would be rehabilitated using trenchless technology in the same trench, with the remainder of the installation accomplished through open trenching. Related work would include construction of new manholes, replacement and re-plumbing of sewer laterals, installation of curb ramps, pavement restoration, traffic control, and storm water best management practices. Construction of the project would affect portions of the following streets and adjacent alleys in the Peninsula Community Plan area: Xenophon Street, Yonge Street, Zola Street, Alcott Street, Browning Street, Plum Street, Willow Street, Evergreen Street, Locust Street, and Rosecrans Street.

SUBSEQUENT PIPELINE PROJECT REVIEW (LONG TERM)

Applications for the replacement, rehabilitation, relocation, point repair, open trenching and abandonment of water and/or sewer pipeline alignments within the City of San Diego PROW as indicated in the Subject block above and in the Project Description discussion of the Initial Study would be analyzed for potential environmental impacts to Historical Resources (Archaeology, Paleontology and the Built Environment) and Land Use (MSCP/MHPA), and reviewed for consistency with this Mitigated Negative Declaration (MND). Where it can be determined that the project is “consistent” with this MND and no additional potential significant impacts would occur pursuant to State CEQA Guideline § 15162 (i.e. the involvement of new significant environmental effects of a substantial increase in the severity of previously identified effects) or if the project would result in minor technical changes or additions, then an Addendum to this MND would be prepared pursuant to §15164. Where future projects are found not to be consistent with this MND, then a new Initial Study and project specific MND shall be prepared.

9. Surrounding land uses and setting. Briefly describe the project's surroundings: The scope of the MND is city-wide and future projects would be located within the Right-of-Way, which is categorized as Road/Freeways/Transportation Facilities in the General Plan. Surrounding land uses would vary depending on the location proposed.
10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.): None.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|---|--|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Agriculture and Forestry Resources | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Public Services |
| <input type="checkbox"/> Air Quality | <input type="checkbox"/> Hydrology/Water Quality | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Land Use/Planning | <input type="checkbox"/> Transportation/Traffic |
| <input checked="" type="checkbox"/> Cultural Resources | <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Utilities/Service System |
| <input type="checkbox"/> Geology/Soils | <input type="checkbox"/> Noise | <input checked="" type="checkbox"/> Mandatory Findings Significance |

DETERMINATION: (To be completed by Lead Agency)

On the basis of this initial evaluation:

- The proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.
- Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A **MITIGATED NEGATIVE DECLARATION** will be prepared.
- The proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.
- The proposed project **MAY** have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (a) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (b) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An **ENVIRONMENTAL IMPACT REPORT** is required.
- Although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or (MITIGATED) **NEGATIVE DECLARATION** pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or (MITIGATED) **NEGATIVE DECLARATION**, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
-------	--------------------------------	--	------------------------------	-----------

I) AESTHETICS – Would the project:

- a) Have a substantial adverse effect on a scenic vista?

Near-term or future projects would involve the replacement, rehabilitation, relocation, point repair, new trenching, and abandonment of water and/or sewer alignments and associated improvements such as curb ramps, pedestrian ramps, lateral connections, manholes all located below the existing PROW. It is not anticipated that removal and/or replacement of street trees and the removal and/or replacement of street lights; therefore scenic vistas would not be impacted.

- b) Substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Near-term or future projects may involve work that could affect street trees, historic buildings or a scenic state highway; however, any work of this type would be reviewed by qualified historical staff to ensure that construction related activities not impact the integrity of the any scenic resources. Additionally, any associated street improvements, if located within a historic district, would be required to comply with the mitigation measures incorporated in Section V of this MND.

- c) Substantially degrade the existing visual character or quality of the site and its surroundings?

Please see I.b.

- d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

The scope of development for near-term and/or future projects would predominantly be located below existing grade, with the possible exception of any associated street improvements (e.g. curb ramps, pedestrian ramps, street trees, etc.). The removal and/or replacement of street lights within any particular project alignment would not create a new source of substantial light or glare. Additionally, no associated street improvements would involve the use of highly reflective materials. Therefore, the project would not have the potential to create substantial light or glare impacts.

II) AGRICULTURAL AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. – Would the project:

- a) Converts Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

Near-term and/or future pipeline alignments would be located within the developed PROW which would not be classified as farmland by the Farmland Mapping and Monitoring Program (FMMP). Any adjacent areas in agricultural production would not be affected by near-term and/or future pipeline projects. Therefore, the project in and of itself would not result in the conversion of farmland to non-agricultural uses.

- b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

Please see II.a

- c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 1220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

The public right of way and land surrounding any near-term and/or future pipeline alignments is not zoned as forest land as all areas are within the urbanized boundaries of the City of San Diego. Therefore, the project would not conflict with existing zoning for forest land.

- d) Result in the loss of forest land or conversion of forest land to non-forest use?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project is located within the developed public right of way and the land surrounding any near-term and/or future pipeline alignments is not designated forest land as all areas are within the urbanized boundaries of the City of San Diego. Therefore, the project would not convert forest land to a non-forest use.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The project would not involve a change in land use and would not impact farmland or forestland.

III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied on to make the following determinations - Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Near-term and/or future pipeline alignments would not involve any future actions that would generate air quality emissions as a result of the proposed use (e.g. vehicle miles traveled, etc). However, emission would occur during the construction phase of the project and could increase the amount of harmful pollutants entering the air basin. The emissions would be minimal and would only occur temporarily during construction. Additionally, the construction equipment typically involved in water/sewer projects is small-scale and generates relatively few emissions. When appropriate, dust suppression methods would be included as project components. As such, any near-term and/or future projects would not be inconsistent with the region’s air quality plan.

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Please see III.a

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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As described above, construction operations could temporarily increase the emissions of dust and other pollutants. However, construction emissions would be temporary and implementation of Best Management Practices would reduce potential impacts related to construction activities to

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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below a level of significance. Therefore, any near-term and/or future pipeline alignments would not result in a cumulatively considerable net increase of any criteria pollutant for which the project is non-attainment in the region under applicable federal or state ambient air quality standards.

- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| d) Expose sensitive receptors to substantial pollutant concentrations? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|

Construction operations could temporarily increase the emissions of harmful pollutants, which could affect sensitive receptors adjacent to the project. However, construction emissions would be temporary and it is anticipated that implementation of construction BMPs would reduce potential impacts related to construction activities to minimal levels. Therefore, any near-term and/or future pipeline projects would not expose sensitive receptors to substantial pollutant concentrations.

- | | | | | |
|---|--------------------------|--------------------------|-------------------------------------|--------------------------|
| e) Create objectionable odors affecting a substantial number of people? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|--------------------------|-------------------------------------|--------------------------|

Operation of construction equipment and vehicles could generate odors associated with fuel combustion. However, these odors would dissipate into the atmosphere upon release and would only remain temporarily in proximity to the construction equipment and vehicles. Therefore, any near-term and/or future pipeline projects would not create substantial amounts of objectionable odors affecting a substantial number of people.

IV. BIOLOGICAL RESOURCES – Would the project:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Have substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

Near-term and/or future pipeline projects would be limited to development proposals that do not impact Sensitive Biological Resources. Any near-term and/or future actions that would impact Sensitive Biological Resources would not be consistent with this MND and a new Initial Study and MND would be prepared in accordance with the provisions of CEQA.

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| b) Have a substantial adverse effect on any riparian habitat or other community identified in local or | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<p>regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>See IV. b)</p>				
<p>c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Any near-term and/or future pipeline projects would be located in the developed public right of way where wetlands would not be present, either within or adjacent to the project's boundaries. Therefore, any near-term and/or future pipeline projects do not have the potential to impact these resources. Any near-term and/or future actions that would impact wetland resources would not be consistent with this MND and a new Initial Study and MND would be prepared in accordance with the provisions of CEQA.</p>				
<p>d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Any near-term and/or future pipeline projects would not result in adverse impacts on wildlife movement in the project's areas. As previously mentioned above, these projects would be located in the developed public right of way which would not contain wildlife corridors.</p>				
<p>e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Any near-term and/or future pipeline projects would not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Any near-term and/or future pipeline projects may involve associated street improvements such as the replacement of street trees. However, trees that are covered under any kind of a preservation policy or ordinance would not be part of any future actions. Additionally, future project areas would lack any sensitive biological resources and would not require the removal of any unique or</p>				

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
sensitive trees. As such, the project would not result in conflict with local policies protecting biological resources.				
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Near-term and/or future pipeline projects may be located in close proximity to, or adjacent to the City's Multi-Habitat Planning Area (MHPA), but not within the MHPA. MHPA Land Use Adjacency mitigation has been incorporated into the Mitigation, Monitoring and Reporting Program (MMRP) to mitigate indirect impacts to the MHPA. Therefore, the project does not have the potential to impact any habitat conservation plans and would not result in indirect impacts to the MHPA.

V. CULTURAL RESOURCES – Would the project:

a) Cause a substantial adverse change in the significance of an historical resource as defined in §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The purpose and intent of the *Historical Resources Regulations of the Land Development Code (Chapter 14, Division 3, and Article 2)* is to protect, preserve and, where damaged, restore the historical resources of San Diego. The regulations apply to all proposed development within the City of San Diego when historical resources are present on the premises.

CEQA requires that before approving discretionary projects, the Lead Agency must identify and examine the significant adverse environmental effects, which may result from that project. A project that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (Sections 15064.5(b) and 21084.1). A substantial adverse change is defined as demolition, destruction, relocation, or alteration activities, which would impair historical significance (Sections 15064.5(b)(1)). Any historical resource listed in, or eligible to be listed in the California Register of Historical Resources, including archaeological resources, is considered to be historically or culturally significant.

Near-term and/or future pipeline projects may include future actions that would be analyzed for the potential to impact archaeological resources. For those proposals that include ground disturbing activities and are located within mapped areas of the City that indicate a potential for the discovery of archaeological resource, monitoring would be required. As such, when required, archaeological monitoring would reduce potential impacts to archaeological resources to below a level of significance.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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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, as detailed in Section V., of the MND or if the project requires further review in accordance with the Historical Resources Regulations. A project which would adversely affect a designated historical district because it could not comply with the Secretary of the Interior Standards or implement the required MMRP would not be consistent with this MND and a new Initial Study and MND would be prepared in accordance with the provisions of CEQA.

- b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Near-term and/or future pipeline projects would include work that requiring trenching in areas where there is a potential for archaeological resources to be encountered. As such, the requirement for archaeological monitoring has been included in the MMRP. Projects that would have a direct impact on a recorded or designated archaeological site which requires Phase 2 Testing and mitigation measures (e.g. Archaeology Date Recovery Program) would not be consistent with this MND and a new Initial Study and MND would be prepared in accordance with the provisions of CEQA. Projects which could be found to be adequately covered under this MND and only require monitoring would not result in a significant adverse change in the significance of a resource pursuant to §15064.5 with implementation of the MMRP identified in Section V., of the MND.

- c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Near-term and/or future pipeline projects may include work that is underlain by sensitive fossil bearing formations which could be impacted if trenching is anticipated at depths greater than 10 feet. Therefore, based on the sensitivity of the affected formation and the proposed excavation depths, 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. Paleontological monitoring would be required and would reduce potential impacts to below a level of significance.

- d) Disturb any human remains, including those interred outside of formal cemeteries?

A potential to encounter human remains during construction activity within the City's public right-of-way exists for any near-term or future pipeline alignment project; especially in areas where work would occur within high sensitivity areas for archaeological resources which can include Native American remains. Mitigation measures addressing the unanticipated discovery

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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of Native American human remains are included in Section V of the MMRP. Implementation of these measures would reduce potential unanticipated impacts to below a level of significance.

For projects that are not covered under this environmental document (e.g., meet the criteria for a Statutory or Categorical Exemption under CEQA), then standard language regarding the unanticipated discovery of human remains of unknown origin found in the *City of San Diego Standard Specifications for Public Works Construction ("WHITEBOOK")* would take precedence. Upon notification by the Contractor of the discovery of human remains of unknown origin, these requirements require that the Engineer shall immediately notify the San Diego County Coroner to start the investigation process, in accordance with the California Health and Safety Code §§7050.5 and 7051 and the California Public Resources Code.

VI. GEOLOGY AND SOILS – Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

Near-term and/or future pipeline projects would utilize proper engineering design and standard construction practices in order to ensure that potential impacts in this category based on regional geologic hazards would remain less than significant. Therefore, risks from rupture of a known earthquake fault would be below a level of significance.

- | | | | | |
|------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| ii) Strong seismic ground shaking? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|

Near-term and/or future pipeline projects would not expose people or structures to strong seismic ground shaking. The design of the proposed project and any subsequent projects would utilize proper engineering design and standard construction practices to ensure that the potential for impacts from ground shaking would be below a level of significance.

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| iii) Seismic-related ground failure, including | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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liquefaction?

The design of any near-term and/or future pipeline projects would utilize proper engineering design standard construction practices to ensure that the potential for impacts from seismic-related ground failure, including liquefaction would be below a level of significance.

iv) Landslides?

Near-term and/or future pipeline projects would not include actions that would expose people or structures to the risk of loss, injury, or death involving landslides. Pipeline design for projects covered under this MND would utilize proper engineering design and standard construction practices to ensure that the potential for impacts would be below a level of significance.

b) Result in substantial soil erosion or the loss of topsoil?

Construction of the near-term and/or future pipeline projects covered under this MND would take place within the developed public right of way. Any disturbances to streets and alleys would be replaced in kind. Additionally, appropriate BMPs aimed at preventing soil erosion would be incorporated during construction and design of the project. As such, project implementation would not result in a substantial amount of soil erosion or loss of topsoil.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Near-term and/or future pipeline projects are located entirely within the City's PROW (See project descriptions). It is possible, that any near-term and/or future projects may be located throughout the City within the Public Right-of-Way and may be located within various Geologic Hazard Categories. However, proper engineering design and utilization of standard construction practices would ensure that the potential for impacts would be less than significant.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

The design of any near-term and/or future pipeline projects would utilize proper engineering design and utilization of standard construction practices would ensure that the potential for impacts would be less than significant.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The design of any near-term and/or future pipeline projects covered under this MND would utilize proper engineering design and standard construction practices to ensure that the potential for impacts would be below a level of significance.

VII. GREENHOUSE GAS EMISSIONS - Would the project:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The City of San Diego is utilizing the California Air Pollution Control Officers Association (CAPCOA) report “CEQA and Climate Change” (CAPCOA 2009) to determine whether a GHG analysis would be required for submitted projects. The CAPCOA report references a 900 metric ton guideline as a conservative threshold for requiring further analysis and possible mitigation. This emission level is based on the amount of vehicle trips, the typical energy and water use associated with projects, and other factors.

CAPCOA identifies project types that are estimated to emit approximately 900 metric tons of GHG’s annually. This 900 metric ton threshold is roughly equivalent to 35,000 square feet of office space, 11,000 square feet of retail, 50 single-family residential units, 70 multi-family residential units and 6,300 square feet of supermarkets.

Since any future pipeline projects covered in this CEQA document do not fit in the categories listed above, a GHG modeling analysis would be conducted for each project.

A GHG modeling analysis was conducted for each near-term project also covered in the MND. This modeling was conducted to determine the level of GHG emissions. The Roadway Construction Emissions Model is a spreadsheet program created by the Sacramento Metropolitan Air Quality Management District to analyze construction related GHGs and was utilized to quantify the project’s GHG emissions. The model utilizes project information (e.g. total construction months, project type, construction equipment, grading quantities and the total disturbance area, etc.) to quantify GHG emissions from heavy-duty construction equipment, haul trucks, and worker commute trips associated with linear construction projects.

Harbor Drive project: Results of the Roadway Construction Emissions Model output demonstrated that during the 6 months of construction the project would generate approximately 250 metric tons of emissions per year. On an annualized basis, the output would be approximately 500 metric tons per year. The output for the project falls well below the 900 metric ton per year figure. Therefore, based

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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upon the analysis showed above the project would result in a less than significant CEQA Greenhouse gas impact and mitigation would not be required.

Sewer/Water Job 732: Results of the Roadway Construction Emissions Model output demonstrated that the project duration of 6 months, and assuming a May start date, this project would produce 162.5 metric tons of CO2 in the first year and 0 metric tons of CO2 the second year. The output for the project falls well below the 900 metric ton figure. Therefore, based upon the analysis showed above the project would result in a less than significant CEQA Greenhouse gas impact and mitigation would not be required.

~~**Sewer Group 787:** Results of the Roadway Construction Emissions Model output demonstrated that this project would produce a total of 555.9 metric tons of CO2 during the 19-month construction period. Assuming a September start, 117.0 metric tons would be generated in the second year, and 87.8 metric tons of CO2 would be generated in the third year. The project's estimated GHG emissions results are well below the 900 metric tons of CO2 and; therefore, impacts are less than CEQA significant and mitigation would not be required.~~

Water Group 914: Results of the Roadway Construction Emissions Model output demonstrated that this project's duration is 14 months and assuming a September start date the project would produce 141.5 metric tons of CO2 in the first year, and 353.7 metric tons of CO2 in the second year. The project's estimated GHG emissions results are well below the 900 metric tons of CO2 and; therefore, impacts are less than CEQA significant and mitigation would not be required.

Water Group 949: Results of the Roadway Construction Emissions Model output demonstrated that the project duration of 6 months, and assuming a May start date, the project would produce 162.5 metric tons of CO2 in the first year and 0 metric tons of CO2 the second year. The output for the project falls well below the 900 metric ton figure. Therefore, based upon the analysis showed above the project would result in a less than significant CEQA Greenhouse gas impact and mitigation would not be required.

For a determination of whether future projects would be consistent with this MND, the Roadway Construction Emissions Model can be utilized. If the output is less than 900 metric tons of GHG annually, then no further analysis is needed and the project would be consistent with the GHG analysis in this document. If, however, the output from the Roadway Construction Emission Model is greater than 900 metric tons annually, then a formal GHG Analysis would be conducted incorporating appropriate mitigation measures. If the analysis indicates project implementation would result in 900 metric tons or more annually, then the project would not be consistent with the GHG analysis in this MND as the project would be required to incorporate mitigation to reduce its GHG output by 30% compared to the California Air Resources Board (CARB) 2020 business-as-usual forecast and a new Initial Study and MND would be prepared pursuant to CEQA.

- b) Conflict with an applicable plan, policy, or regulation adopted for the

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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purpose of reducing the emissions of greenhouse gases?

Please see VII.a. It is anticipated that the any near-term and/or future pipeline projects would not conflict with any applicable plans, policies, or regulations related to greenhouse gases.

VIII. HAZARDS AND HAZARDOUS MATERIALS – Would the project:

- a) Create a significant hazard to the public or the environment through routine transport, use, or disposal of hazardous materials?

Construction of any near-term and/or future pipeline projects covered under this MND may require the use of hazardous materials (e.g., fuels, lubricants, solvents, etc.) which would require proper storage, handling, use and disposal; however, these conditions would not occur during routine construction within the PROW. Construction specifications would include requirements for the contractor regarding where routine handling or disposal of hazardous materials could occur and what measures to implement in the event of a spill from equipment. Compliance with contract specifications would ensure that potential hazards are minimized to below a level of significance.

- b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Any near-term and/or future project alignments covered under this MND have the potential to traverse properties which could contain Leaking Underground Storage Tank (LUST) cleanup sites, permitted UST's, or contaminated sites located within a 1,000 feet from the project alignments; however, in the event that construction activities encounter underground contamination, the contractor would be required to implement § 803 of the City's "WHITEBOOK" for "Encountering or Releasing Hazardous Substances or Petroleum Products" of the City of San Diego Standard Specifications for Public Works Construction which is included in all construction documents and would ensure the proper handling and disposal of any contaminated soils in accordance with all applicable local, state and federal regulations. Compliance with these requirements would minimize the risk to the public and the environmental; therefore, impacts would remain less than significant.

- c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Several of the near-term projects are located within a ¼ mile radius of an existing or proposed school

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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and would involve trenching activities that could result in the release of hazardous emissions if unanticipated contamination is encountered within the PROW. The same would be true for any future projects that may be proposed within ¼ mile of an existing or proposed school and would involve trenching activities that could result in the release of hazardous emissions if unanticipated contamination is encountered. In both cases, §803 of the City of San Diego's "WHITEBOOK" is included in all construction documents to ensure that appropriate protocols are followed pursuant to County DEH requirements should any hazardous conditions be encountered. As such, impacts regarding the handling or discovery of hazardous materials, substances or waste within close proximity of a school would be below a level of significance with implementation of the measures required pursuant to the contract specifications and County DEH oversight.

- d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Although none of the near-term project alignments covered in the document are identified on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, future projects could be located within close proximity to hazardous materials sites or within 1,000 feet from leaking USTs. However, as previously outlined in VIII a-c above, specific measures have been or will be incorporated into the contract specifications to address any contaminated soils encountered during construction related activities in accordance with local, state, and federal regulations. Therefore, with implementation of measures contained in the contract specifications, potential hazards would be reduced to below a level of significance.

- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two mile of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

Several near-term projects covered in this MND (Harbor Drive Pipeline, Water Group 914, and Sewer/Water Group 732) are located within or in close proximity to the Airport Influence Area (AIA) of the San Diego International Airport's Airport Land Use Compatibility Plan (ALUCP). This geographically demarcated area that surrounds Lindbergh Field ensures that factors such as noise, land use, safety and airspace protection are considered anytime a land use decision is made. Since these near-term projects and any future projects are linear underground projects, construction of these types of projects would not introduce any new features that would result in a safety hazard for people residing in or working in the area or create a flight hazard.

- f) For a project within the vicinity of a private airstrip, would the project

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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result in a safety hazard for people residing or working in the project area?

None of the near-term or future project alignments would be located within the vicinity of a private airstrip; no provide airstrips are located with the jurisdictional boundaries of the City of San Diego; therefore, no impact would result under this category.

- g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Construction of any near-term or future projects would temporarily affect traffic circulation within the project Area of Potential Effect (APE) and its adjoining roads. However, an approved Traffic Control Plan would be implemented during construction which would allow emergency plans to be employed. Therefore, the project would not physically interfere with an adopted emergency response plan or emergency evacuation plan.

- h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

Construction of any near-term or future projects would be located within the City's Public Right-of-Way and would not be located within or adjacent wildlands that could pose a threat of wildland fires. Additionally, sewer and water infrastructure projects would not introduce any new features that would increase the risk of fire.

IX. HYDROLOGY AND WATER QUALITY - Would the project:

- a) Violate any water quality standards or waste discharge requirements?

Potential impacts to existing water quality standards associated with the any near-term and/or future projects would include minimal short-term construction-related erosion/sedimentation, but would not include any long term operational storm water impacts. Any near-term and/or future projects would be required to comply with the City's Storm Water Standards Manual. Depending on the area of disturbance, projects would have to comply with either a Water Pollution Control Plan (WPCP) or Storm Water Pollution Prevention Plan (SWPPP). These plans would prevent or effectively minimize short-term water quality impacts during construction activities. Therefore, the proposed project would not violate any existing water quality standards or discharge requirements.

- b) Substantially deplete groundwater supplies or interfere substantially

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<p>with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?</p> <p>Any near-term and/or future projects do not propose the use of groundwater. Furthermore, these projects would not introduce a substantially large amount of new impervious surfaces over ground that could interfere with groundwater recharge. Therefore, construction of these projects would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge.</p>				
<p>c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner, which would result in substantial erosion or siltation on- or off-site?</p> <p>Any near-term and/or future projects would be located below the surface of the developed public right of way within paved streets. Upon completion of the installation of the utility lines the streets would be returned to their preexisting conditions. Therefore these projects would not substantially alter any existing drainage patterns.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?</p> <p>Please see IX.c.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>e) Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<p>Conformance to BMPs outlined in an approved WPCP and compliance with the City Stormwater Standards would prevent or effectively minimize short-term construction runoff impacts from any near-term and/or future pipeline projects covered under the MND. Additionally, these projects would not result in a substantial increase in impervious surface, and therefore, would not contribute runoff water that would exceed the capacity of existing storm water systems.</p>				
<p>f) Otherwise substantially degrade water quality?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Conformance to BMPs outlined in an approved WPCP and compliance with the City Stormwater Standards would prevent or effectively minimize short-term construction runoff impacts from any near-term and/or future pipeline projects covered under the MND. See IX-a.</p>				
<p>g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>The near-term and/or future pipeline projects would not include the construction of any housing.</p>				
<p>h) Place within a 100-year flood hazard area, structures that would impede or redirect flood flows?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>The near-term and/or future pipeline projects would not impede the direction of flows or substantially impact a 100-year flood hazard area.</p>				
<p>i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>The near-term and/or future pipeline projects would not include any new features that would increase the risk associated with flooding beyond those of any existing conditions.</p>				
<p>j) Inundation by seiche, tsunami, or mudflow?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>The near-term and/or future pipeline projects would not include any new features that would increase the risk associated with seiche, tsunami, or mudflow beyond those of any existing conditions.</p>				
<p>X. LAND USE AND PLANNING – Would the project:</p>				
<p>a) Physically divide an established community?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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Implementation of the near-term and/or future pipeline projects would involve replacing and installing utility infrastructure and would not introduce new features that could divide an established community.

- b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

Implementation of the near-term and/or future pipeline projects would involve replacing and installing utility infrastructure and would be consistent with all applicable land use plans, policies, or regulations of an agency with jurisdiction over the project and would not conflict with any land use plans.

- c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

Implementation of the near-term and/or future pipeline projects would involve replacing and installing utility infrastructure located entirely within the developed public right of way. Although some projects could be located within proximity to the City’s MHPA which is covered by the MSCP Subarea Plan, no conflicts are anticipated because implementation of the MHPA Land Use Adjacency Guidelines would be required for any project located within 100 feet from the MHPA. Measures to reduce potential indirect impacts to the City’s MHPA have been included in the MMRP contained within Section V. of the MND.

XI. MINERAL RESOURCES – Would the project?

- a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

Areas surrounding the near-term project alignments are not being used for the recovery of mineral resources. Similarly, these areas are also not designated for the recovery of mineral resources on the City of San Diego General Plan Land Use Map. Additionally, any future projects submitted for review in accordance with this MND would be evaluated based on their proximity to areas where mineral resources could be affected. At this time however, it is not anticipated that any future pipeline project, which would be located entirely within the PROW would result in the loss of

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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availability of a known mineral resource of value to the region and the state.

- b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Areas surrounding the near-term project alignments have not been delineated as being used for the recovery of mineral resources or designated for the recovery of mineral resources on the City of San Diego General Plan Land Use Map. Additionally, any future projects submitted for review in accordance with this MND would be evaluated based on their proximity to areas where mineral resources could be affected. At this time however, it is not anticipated that any future pipeline project, which would be located entirely within the PROW would result in the loss of availability of a locally important mineral resource recovery site.

XII. NOISE – Would the project result in:

- a) Exposure of persons to, or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Any near-term or future pipeline projects covered under this MND would not in and of itself result in the generation of operational noise levels in excess of existing standards. However, some construction related noise would result, but would be temporary and transitory in nature and strictly regulated under San Diego Municipal Code Section 59.5.0404, "Noise Abatement and Control" which places limits on the hours of construction operations and standard decibels which cannot be exceeded. Therefore, people would not be exposed to noise levels in excess of those covered by existing noise regulations.

- b) Exposure of persons to, or generation of, excessive ground borne vibration or ground borne noise levels?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Any near-term or future pipeline projects covered under this MND would result in negligible ground disturbing vibrations during construction based on the type of equipment being used and the construction methodology being employed for each project type. Noise occurring during construction activities would be temporary and transitory in nature and would be strictly regulated under San Diego Municipal Code Section 59.5.0404, "Noise Abatement and Control" which places limits on the hours of construction operations and standard decibels which cannot be exceeded. Therefore, people would not be exposed to excessive ground disturbing vibration levels after completion of each project.

- c) A substantial permanent increase in ambient noise levels in the project
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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vicinity above levels existing without the project?

Any near-term or future pipeline projects covered under this MND all occur within the developed PROW would not permanently increase the ambient noise levels beyond those which exist without the project. Please see XII.a & b.

- d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above existing without the project?

A portion of one near-term project would be located along Harbor Drive where the existing noise environment is already high due to its proximity to Lindbergh Field and from high traffic patterns surrounding the airport and nearby businesses. Other near-term and/or future projects covered under this MND may occur City-wide and result in temporary construction related noise impacts; however, the increase in noise due to construction activities would be temporary in nature and strictly regulated in accordance with the Municipal Code. These temporary and periodic construction related noise increased would not be considered substantial and therefore, the increase in ambient noise levels would be less than significant. Please see XII.a.

- e) For a project located within an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport would the project expose people residing or working in the area to excessive noise levels?

Several near-term projects covered in this MND (Harbor Drive Pipeline, Water Group 914, and Sewer/Water Group 732) are located within 2 miles of a public airport; specifically to the Airport Influence Area (AIA) of the San Diego International Airport's Airport Land Use Compatibility Plan (ALUCP). This geographically demarcated area that surrounds Lindbergh Field ensures that factors such as noise, land use, safety and airspace protection are considered anytime a land use decision is made. Although these near-term projects and any future projects are linear underground projects, construction would not in and of itself expose people residing in the area or construction workers to excessive noise levels beyond those that may currently exist. For projects within proximity to Lindbergh Field and heavily traveled roadways, the ambient noise level is already loud. Strict compliance with OSHA standards for worker safety would ensure that exposure to excessive noise levels would not occur for all other near-term and/or future pipeline projects.

- f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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None of the near-term projects are located within proximity to a private airstrip and it's not anticipated that any future projects would be either; mainly because no private airstrips are located in the urbanized areas within the City's jurisdictional boundaries. Therefore no impacts in this category would occur.

XIII. POPULATION AND HOUSING – Would the project:

- a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

The near-term and/or future pipeline projects would replace, rehabilitate and install new utility infrastructure. These upgrades are intended to improve currently outdated sewer and water systems in order to keep up with current demand. These projects would not extend any existing roadways into undeveloped areas or introduce any new roadways that could induce population growth and therefore, no impact would occur.

- b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

The near-term and/or future pipeline projects would replace, rehabilitate and install new utility infrastructure. These upgrades are intended to improve currently outdated sewer and water systems in order to keep up with current demand. These projects would not displace any housing.

- c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

See XIII b).

XIV. PUBLIC SERVICES

- a) Would the project result in substantial adverse physical impacts associated with the provisions of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service rations, response times or other

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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performance objectives for any of the public services:

- | | | | | |
|--------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| i) Fire Protection | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|

Any near-term or future pipeline project would not physically alter any fire protection facilities. Replacement and installation of utility infrastructure would not require any new or altered fire protection services. Future projects may require a Traffic Control Plan to ensure major disruptions to traffic flow do not occur. Disruptions to response times are not anticipated.

- | | | | | |
|-----------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| ii) Police Protection | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|

Any near-term or future pipeline project would not physically alter any fire protection facilities. Replacement and installation of utility infrastructure would not require any new or altered police protection services. Future projects may require a Traffic Control Plan to ensure major disruptions to traffic flow do not occur. Disruptions to response times are not anticipated.

- | | | | | |
|--------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| iii) Schools | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------|--------------------------|--------------------------|--------------------------|-------------------------------------|

Any near-term or future pipeline project would not physically alter any schools. Additionally, these projects would not include construction of future housing or induce growth that could increase demand for schools in the area.

- | | | | | |
|----------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| v) Parks | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|--------------------------|--------------------------|--------------------------|-------------------------------------|

Any near-term or future pipeline project would not physically alter any parks. Therefore, these projects would not create demand for new parks or other recreational facilities.

- | | | | | |
|-----------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| vi) Other public facilities | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|

Any near-term or future pipeline project would not result in the increased demand for electricity, gas, or other public facilities. These projects would improve the sewer and water utility system to keep up with current and projected demand.

XV. RECREATION –

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

Implementation of the near-term and/or future pipeline projects would replace and improve utility infrastructure. The improved infrastructure would not allow for increased access to existing recreation areas. These projects would not directly generate additional trips to existing recreation areas or induce future growth that would result in additional trips to these facilities. Therefore, these

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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projects would not increase the use of existing recreational areas such that substantial physical deterioration of the facility would occur or be accelerated.

- b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

Implementation of the near-term and/or future pipeline projects would replace and improve utility infrastructure and would not include the construction of recreational facilities or require the construction or expansion of recreational facilities.

XVI. TRANSPORTATION/TRAFFIC – Would the project?

- a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Construction of the near-term and/or future pipeline projects would temporarily affect traffic circulation within the project’s Area of Potential Effect (APE). However, an approved Traffic Control Plan would be implemented during construction so that traffic circulation would not be substantially impacted. Therefore, these projects would not result in an increase of traffic which is substantial in relation to existing traffic capacities.

- b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

Construction of the near-term and/or future pipeline projects would temporarily affect traffic circulation within the project’s APE and its adjoining roads. However, an approved Traffic Control Plan would be implemented during construction so that traffic would not exceed cumulative or

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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individual levels of service.

- c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

The near-term and any future projects covered under this MND would not include any tall structures or new features that could affect air traffic patterns or introduce new safety hazards related to air traffic.

- d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The near-term and any future projects covered under this MND would not include any tall structures or design features that would increase hazards in the area. All projects would be designed to meet City standards and therefore would meet existing levels of service.

- e) Result in inadequate emergency access?

Construction of the near-term or any future project would temporarily affect traffic circulation within the project's APE. However, an approved Traffic Control Plan would be implemented during construction so that there would be adequate emergency access.

- f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

Construction of the near-term or any future project would temporarily impact circulation during construction activities as it relates to traffic, pedestrians, public transit and bicycles. However, the preparation of a Traffic Control Plan would ensure that any disruption to these services would not be significant.

XVII. UTILITIES AND SERVICE SYSTEMS – Would the project:

- a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<p>Construction of the near-term or any future projects covered under this MND would facilitate the treatment of wastewater and would not exceed the requirements of the Regional Water Quality Control Board.</p>				
<p>b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Construction of the near-term or any future projects covered under this MND would result in improvements to water and sewer pipeline infrastructure. Use of this MND is limited to projects that would not result in a significant unmitigated impact to the environment.</p>				
<p>c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Construction of the near-term or any future projects covered under this MND would not result in an increase in impervious surfaces as the scope is completely within the City Right-of-Way. Therefore, these projects would not require the construction of new storm water drainage facilities or expansion of existing facilities.</p>				
<p>d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Construction of the near-term or any future projects covered under this MND would not increase the demand for water. These projects would improve the existing water pipelines system throughout the City.</p>				
<p>e) Result in a determination by the wastewater treatment provided which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>See XVII c)</p>				
<p>f) Be served by a landfill with sufficient</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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permitted capacity to accommodate the project's solid waste disposal needs?

Construction of the near-term or any future projects covered under this MND would not result in the demolition of structures. Construction of these projects would likely generate minimal waste. This waste would be disposed of in accordance with all applicable local and state regulations pertaining to solid waste including permitting capacity of the landfill serving the project area. Demolition or construction materials which can be recycled shall comply with the City's Construction and Demolition Debris Ordinance. Operation of the project would not generate waste and, therefore, would not affect the permitted capacity of the landfill serving the project area.

- g) Comply with federal, state, and local statutes and regulation related to solid waste?

See XVII f). Any solid waste generated during construction related activities would be recycled or disposed of in accordance with all applicable local state and feral regulations.

XVIII. MANDATORY FINDINGS OF SIGNIFICANCE --

- a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Any near-term and/or future pipeline projects covered under this MND would be located within the developed public right of way and would not impact any *Sensitive Biological Resources*. Projects that would be located adjacent to the MHPA would be required to incorporate MHPA Land Use Adjacency measures to reduce any potential indirect impacts. As such, indirect impacts would be mitigated to below a level of significance. With respect to historical resources, mitigation for archaeology, paleontology and the built environment have been incorporated into the MND. Each project would be analyzed and a determination made regarding which mitigation measures would be applied in the subsequent environmental document and would be required to comply with the mitigation measures further detailed in Section V of this MND. As a result, project implementation would not result in a significant impact to these resources.

- b) Does the project have impacts that are

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable futures projects)?

When viewed in connection with the effects of the near-term projects and any future pipeline projects on a Citywide basis, construction trenching has the potential to impact archaeological and paleontological resources which could incrementally contribute to a cumulative loss of non-renewable resources. However, with implementation of the mitigation measures found in Section V of the MND, this incremental impact would be reduced to below a level of significance.

Although any near-term and/or future projects could be located within a designated historical district, no direct or cumulative impact is anticipated because each project would be subject to review in accordance with the City’s Historical Resources Guidelines, and for consistency with the Secretary of the Interior Standards and this environmental document. Measures to reduce potential indirect impacts for projects located within a historic district would be incorporated into each subsequent environmental document when applicable to the conditions and environmental setting of the alignment. Therefore, no cumulative impact would result under these project types.

Because the near-term and/or future projects would not be located in areas where biological resources could be encountered and would not result in a cumulative loss of resources. Measures to reduce potential indirect impacts for projects located adjacent to the City’s MHPA would be incorporated into each subsequent environmental document when applicable to the conditions and environmental setting of the alignment. Implementation of the MHPA Land Use Adjacency Guidelines is consistent with the MSCP Subarea Plan & FEIR which addressed the cumulative loss of sensitive biological resources and edge effects on the MHPA from future development. Therefore, no cumulative impact would result under these project types.

c) Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

As stated previously, potentially significant impacts have been identified for Paleontological Resources, Archaeological Resources, Historical Resources (Historic Districts) and MHPA Land Use Adjacency. However, mitigation has been included in Section V of this MND to reduce impacts to below a level of significance. As such, project implementation would not result in substantial adverse impact to human beings.

INITIAL STUDY CHECKLIST

REFERENCES

I. AESTHETICS / NEIGHBORHOOD CHARACTER

- City of San Diego General Plan.
- Community Plan.
- Local Coastal Plan.

II. AGRICULTURAL RESOURCES & FOREST RESOURCES

- City of San Diego General Plan.
- U.S. Department of Agriculture, Soil Survey - San Diego Area, California, Part I and II, 1973.
- California Agricultural Land Evaluation and Site Assessment Model (1997)
- Site Specific Report:

III. AIR QUALITY

- California Clean Air Act Guidelines (Indirect Source Control Programs) 1990.
- Regional Air Quality Strategies (RAQS) - APCD.
- Site Specific Report:

IV. BIOLOGY

- City of San Diego, Multiple Species Conservation Program (MSCP), Subarea Plan, 1997
- City of San Diego, MSCP, "Vegetation Communities with Sensitive Species and Vernal Pools" Maps, 1996.
- City of San Diego, MSCP, "Multiple Habitat Planning Area" maps, 1997.
- Community Plan - Resource Element.
- California Department of Fish and Game, California Natural Diversity Database, "State and Federally-listed Endangered, Threatened, and Rare Plants of California," January 2001.
- California Department of Fish & Game, California Natural Diversity Database, "State and Federally-listed Endangered and Threatened Animals of California," January 2001.
- City of San Diego Land Development Code Biology Guidelines.
- Site Specific Report:

V. CULTURAL RESOURCES (INCLUDES HISTORICAL RESOURCES)

City of San Diego Historical Resources Guidelines.

City of San Diego Archaeology Library.

Historical Resources Board List.

Community Historical Survey:

Site Specific Report:

VI. GEOLOGY/SOILS

City of San Diego Seismic Safety Study.

U.S. Department of Agriculture Soil Survey - San Diego Area, California, Part I and II, December 1973 and Part III, 1975.

Site Specific Report:

VII. GREENHOUSE GAS EMISSIONS

Site Specific Report: 'Roadway Construction Emissions Models' conducted for each near-term project (2010 & 2011).

VIII. HAZARDS AND HAZARDOUS MATERIALS

San Diego County Hazardous Materials Environmental Assessment Listing

San Diego County Hazardous Materials Management Division

FAA Determination

State Assessment and Mitigation, Unauthorized Release Listing, Public Use Authorized.

Airport Land Use Compatibility Plan.

Site Specific Report:

IX. HYDROLOGY/WATER QUALITY

Flood Insurance Rate Map (FIRM).

Federal Emergency Management Agency (FEMA), National Flood Insurance Program - Flood Boundary and Floodway Map.

Clean Water Act Section 303(b) list, http://www.swrcb.ca.gov/tmdl/303d_lists.html).

Site Specific Report:

X. LAND USE AND PLANNING

- City of San Diego General Plan.
- Community Plan.
- Airport Land Use Compatibility Plan: Lindberg Field
- City of San Diego Zoning Maps
- FAA Determination

XI. MINERAL RESOURCES

- California Department of Conservation - Division of Mines and Geology, Mineral Land Classification.
- Division of Mines and Geology, Special Report 153 - Significant Resources Maps.
- California Geological Survey - SMARA Mineral Land Classification Maps.
- Site Specific Report:

XII. NOISE

- Community Plan
- San Diego International Airport Master Plan CNEL Maps.
- MCAS Miramar ACLUP
- Brown Field Airport Master Plan CNEL Maps.
- Montgomery Field CNEL Maps.
- San Diego Association of Governments - San Diego Regional Average Weekday Traffic Volumes.
- San Diego Metropolitan Area Average Weekday Traffic Volume Maps, SANDAG.
- City of San Diego General Plan.
- Site Specific Report:

XIII. PALEONTOLOGICAL RESOURCES

- City of San Diego Paleontological Guidelines.
- Deméré, Thomas A., and Stephen L. Walsh, "Paleontological Resources City of San Diego," Department of Paleontology San Diego Natural History Museum, 1996.
- Kennedy, Michael P., and Gary L. Peterson, "Geology of the San Diego Metropolitan Area, California. Del Mar, La Jolla, Point Loma, La Mesa, Poway, and SW 1/4 Escondido 7 1/2

Minute Quadrangles," California Division of Mines and Geology Bulletin 200, Sacramento, 1975.

X Kennedy, Michael P., and Siang S. Tan, "Geology of National City, Imperial Beach and Otay Mesa Quadrangles, Southern San Diego Metropolitan Area, California," Map Sheet 29, 1977.

___ Site Specific Report:

XIV. POPULATION / HOUSING

X City of San Diego General Plan.

X Community Plan.

___ Series 11 Population Forecasts, SANDAG.

___ Other:

XV. PUBLIC SERVICES

X City of San Diego General Plan.

X Community Plan.

XVI. RECREATIONAL RESOURCES

X City of San Diego General Plan.

X Community Plan.

___ Department of Park and Recreation

___ City of San Diego - San Diego Regional Bicycling Map

___ Additional Resources:

XVII. TRANSPORTATION / CIRCULATION

X City of San Diego General Plan.

X Community Plan.

___ San Diego Metropolitan Area Average Weekday Traffic Volume Maps, SANDAG.

___ San Diego Region Weekday Traffic Volumes, SANDAG.

___ Site Specific Report:

XVIII. UTILITIES

X City of San Diego General Plan.

X Community Plan.

— Site Specific Report:

XIX. WATER CONSERVATION

— City of San Diego General Plan.

— Community Plan.

— Sunset Magazine, New Western Garden Book. Rev. ed. Menlo Park, CA: Sunset Magazine.

— Site Specific Report:

Appendix K
Caltrans Encroachment Permit

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Permittee's contractor is responsible for the actual cost of inspection, which may be more or less than the deposit. A bill or refund shall be sent upon satisfactory completion of the work. Payment of any bill is a condition of the permit.

Notwithstanding General Provision No. 4, your contractor is required to apply for and obtain an encroachment permit prior to starting work. A permit inspection deposit fee of \$7,954.00 will be required upon submittal of the application to perform the work. Also, your contractor must submit proof that they have obtained executed bonds in accordance with General Provision No. 24 and your contractor shall provide proof that they have the proper Cal-OSHA permit and classification documents.

Notwithstanding General Provision 24, the Permittee's Contractor's bonds shall remain in full force through completion of the work and acceptance by the Department. Upon fulfillment of all obligations under this permit the Department will notify the Permittee when the Permittee's Contractor's bonds may be released.

The State of California, Department of Transportation, makes no assurance or expressed warranty that the plans are complete or that the planned construction fits field conditions. Should additional work or modifications of the work be required in order to meet established Department Standards or in order to fit field conditions, the work shall be performed by Permittee as directed by the State's Inspector at no cost to the State.

All work shall be coordinated with the State highway contractor's operations and under no circumstances shall the work granted herein interfere. All standards of construction shall be identical to similar work performed under adjacent highway contract.

Permittee shall furnish to the State's Inspector and the Materials Engineering and Testing Services (METS) Materials Administrator a completed form DC-CEM-3101 "Notice of Materials to be Used" for all signal poles, sign poles, light poles, mast arms, signal panels, guard rail components, and other items as specified by the State's Inspector. Please note that these materials may require source inspection and approval at the manufacturer's plant. Materials identified on form TL-608 which are not inspected and approved by the State at the manufacturer's plant will be rejected from use on the State highway.

A minimum of six weeks for source inspection, testing, and approval of materials is to be used.

The METS Materials Administrator can be contacted by fax number (916) 227-7084 or by e-mail at: materials_administrator-METS @dot.ca.gov.

All work shall be performed in accordance with the current Department of Transportation Standard Specifications and the Department of Transportation Encroachment Permit Underground Utility Provisions dated March, 2013

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Traffic control when permitted or directed by the State's Inspector, shall consist of closing lanes and shoulders in accordance with Part 6 of the January, 2012 edition of the California Manual on Uniform Traffic Control Devices (California MUTCD), the provisions of Section 12, "Temporary Traffic Control," of the Standard Specifications, and these special provisions, including the attached TRAFFIC CONTROL SYSTEMS, T-10, T-10A (SHOULDER CLOSURE), T-11 and the attached TRAFFIC CONTROL PLANS.

If any component in the traffic control system is displaced, or ceases to operate or function as specified, from any cause, during the progress of the work, the Permittee shall immediately repair said component to its original condition or replace said component and shall restore the component to its original location.

Permittee shall implement and maintain the attached WPCP, dated as approved August 17, 2012, and as directed and approved by the State's Resident Engineer.

The Permittee shall retain a Civil Engineer, licensed to practice in California, who shall upon completion of the placement of materials requiring compaction, furnish to the State's Inspector, a report certifying that the compaction work has been accomplished in accordance with Caltrans Standard Specifications and Standard Plans. Compaction testing, in accordance with Caltrans testing procedures and policies, shall be performed by a certified testing laboratory. Copies of the test shall accompany the engineer's report.

Pavement shall be sawcut a minimum of 0.2 foot deep prior to paving.

Sidewalk shall be sawcut to an existing expansion joint or scoreline. New concrete shall match existing concrete color, texture and score pattern.

Curbs and gutters shall be installed over 6 inches of Class 2 Aggregate Base. Sidewalks shall be placed over 4 inches of Class 3 Aggregate Subbase.

All open trenches within the improved area shall be backfilled, compacted and temporary repairs made to the surfacing before leaving the job site at the end of the working day. In lieu of temporary repairs, steel plate bridging may be allowed if approved by the State's Inspector prior to the start of work. Permanent paving shall be placed within five working days after completion of the above work. Permanent backfill and paving shall conform to the attached ENCROACHMENT PERMIT TRENCH DETAIL dated September, 2006 and the attached BACKFILL REQUIREMENTS.

When steel plate bridging is used, the attached Steel Plate Bridging Special Provisions will apply in addition to the attached General Provisions.

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Upon completion of the work provided herein, the Permittee shall submit two vellum or paper sets of As-Built plans to the District 11 Caltrans Permit Office showing the actual location of the facility to the nearest 0.1 foot horizontally and vertically. Mylar or paper sepia plans are not acceptable.

As-Built plans shall be signed by a Land Surveyor or Civil Engineer licensed to practice in the State of California

Locations shall be tied to points that are compatible with State's datum for the area. If no datum exists, permanent reference points shall be set that can be used to accurately locate the facilities.

The provisions in this section will not relieve the Permittee from his responsibility to provide such additional devices or take such measures as may be necessary to comply with the provisions in Section 7-1.04, of the Standard Specifications.

Upon completion of the work, the attached card shall be completed and returned.

The following District Standard Special Provisions are generalizations of the Department Standard Specifications and are included only as a Permittee convenience. Permittee's attention is directed to the current Department Standard Specifications for complete, unabridged, specification requirements.

Once begun, that portion of the work within the State Highway right of way shall be prosecuted to completion as rapidly as possible.

All personnel on foot within the State Highway right of way shall wear personal protective equipment, including safety glasses, hard hats and American National Standards Institute (ANSI) compliant Class II vests. In addition, all personnel working at night, on foot within the State Highway right of way shall wear ANSI Class III warning garments.

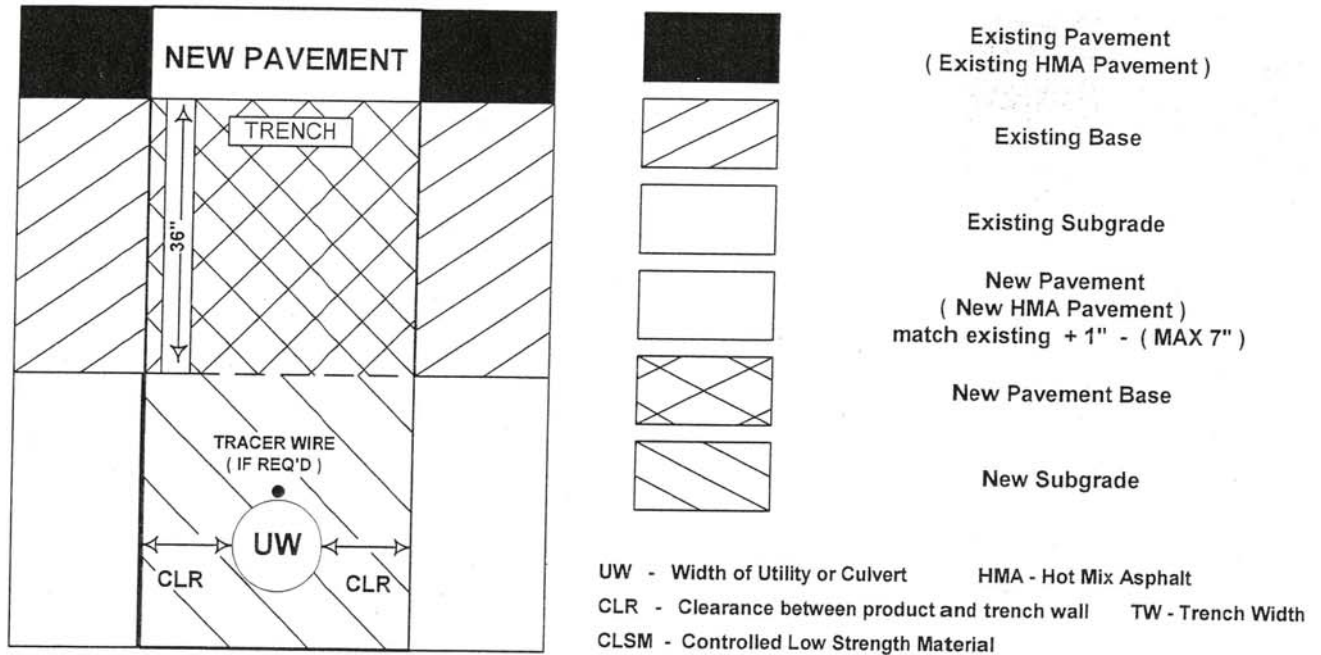
The Permittee's contractor is responsible for locating and protecting all utilities both underground and aerial. Any costs incurred for locating and protecting and/or relocating any utilities shall be borne by the Permittee's contractor.

Five days prior to the start of work, trench excavation safety plans for any trench more than 5 feet deep shall be submitted to the Permit Inspector for review by the District 11 Bridge Engineer.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT TRENCH DETAIL

TR-0153 (REV. 09/2006)

TYPICAL TRENCH DETAIL



STRUCTURE BACKFILL SHALL CONFORM TO SECTION 19 - 3.06 OF THE STANDARD SPECIFICATIONS

SLURRY CEMENT BACKFILL SHALL CONFORM TO SECTION 19 - 3.062 OF THE STANDARD SPECIFICATIONS

HMA SHALL CONFORM TO SECTION 39 OF THE STANDARD SPECIFICATIONS

ALL METHODS OF COMPACTION SHALL BE BY MECHANICAL MEANS. PONDING, JETTING OR FLOODING SHALL NOT BE ALLOWED.

AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STANDARD SPECIFICATIONS

WHEN CLSM IS UTILIZED THE MIX DESIGN AND TEST RESULTS SHALL BE SUBMITTED TO THE STATE'S REPRESENTATIVE.

ALL WORK SHALL BE AS AUTHORIZED BY THE APPROVED ENCROACHMENT PERMIT PLANS, AND/OR AS DIRECTED BY THE STATE'S REPRESENTATIVE.

WHEN THE UW IS $\geq 6"$ THEN THE MINIMUM CLR SHALL BE 6"

COLD PLANING AND RE-SURFACING OVERLAY SHALL BE PARALLEL TO THE ROADWAY AND TO THE NEAREST LANE LINE FOR THE ENTIRE LENGTH OF THE TRENCH/DISTURBED AREAS, AND/OR AS DIRECTED BY THE STATE'S REPRESENTATIVE.

WHEN COLD PLANING IS REQUIRED, THE MINIMUM SHALL BE 0.10' OR AS DIRECTED BY THE STATE'S REPRESENTATIVE TO ACCOMMODATE FIELD CONDITIONS.

COLD PLANING MAY BE REQUIRED AT THE DIRECTION OF THE STATE'S REPRESENTATIVE TO ACCOMMODATE THE PLACEMENT OF STEEL PLATES.

WHEN TRENCH PLACEMENT IS WITHIN 4' OF CURB & GUTTER, ADDITIONAL COLD PLANING MAY BE REQUIRED AT THE DISCRETION OF THE STATE'S REPRESENTATIVE.

ANY PAVEMENT MARKINGS AND/OR STRIPING REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AS DIRECTED BY THE STATE'S REPRESENTATIVE.

A TRACER WIRE SHALL BE PLACED ON TOP OF THE FACILITY, WHEN REQUIRED BY THE STATE'S REPRESENTATIVE.

OTHER TRENCH RELATED DETAILS ARE SHOWN IN FIGURE 6.1, CHAPTER 6 OF THE ENCROACHMENT PERMITS MANUAL.

A PAINT BINDER (TACK COAT) OF ASPHALTIC EMULSION CONFORMING TO SECTION 39-4.02, PRIME COAT & PAINT BINDER (TACK COAT) SHALL BE FURNISHED AND APPLIED.

NEW PAVEMENT BASE SHALL CONSIST OF EITHER CL. II AGGREGATE BASE, 2-SACK SLURRY CEMENT, OR CLSM. WHEN TW IS $< 24,"$ CL. II AGGREGATE BASE IS NOT RECOMMENDED FOR BACKFILL.

NEW SUBGRADE SHALL CONSIST OF EITHER CL. II AGGREGATE BASE, 2-SACK SLURRY CEMENT, OR CLSM. WHEN TW IS $< 24,"$ CL. II AGGREGATE BASE IS NOT RECOMMENDED FOR BACKFILL.

BACKFILL REQUIREMENTS

A. Backfill Within Existing or Proposed Paved Areas:

1. Material for use as structure backfill shall have a sand equivalent of not less than 20. The percentage composition by weight as determined by laboratory sieves shall conform to the following grading:

<u>Sieve Sizes</u>	<u>Percentage Passing Sieves</u>
3"-----	100
No. 4-----	35-100
No. 30-----	20-100

Backfill material shall be placed in horizontal, uniform layers not exceeding 8 in. in thickness, before compaction, and shall be brought up uniformly on all sides of the structure or facility. Each layer of backfill shall be compacted to a relative compaction of not less than 95 percent.

Controlled Low Strength Material (CLSM) shall be allowed for trench backfill if it meets Caltrans Standard Special Provisions 19-270-E and 19-270-M.

2. The upper 8 in. shall consist of 6 in. Class 1 high early strength portland cement concrete (7 sack Type III cement) or Class 1 portland cement concrete (7 sack Type II with 2 percent calcium chloride by weight of cement) and 2 in. of asphalt concrete extending outside the underlying trench a minimum distance of 6 in. on each side. Pavement shall be saw-cut a minimum of 2.5 in. deep to a neat, straight line. Traffic shall not be allowed across the trench area until the PCC has been poured and has had reasonable time to set and permanent or temporary AC paving is in place.
3. In cases where the trench width does not exceed 6 feet, requirement A2 may be waived and the following requirements substituted: the backfill material shall conform to A1 above and shall be thoroughly mixed with 2 sacks of portland cement per cubic yard. Placement and compaction shall conform to A.1. The upper portion shall consist of a tack coat of liquid asphalt and 4 in. asphalt concrete placed and compacted in two even lifts and rolled to a smooth even finish. Traffic shall not be allowed across the trench area until the AC paving is in place.
4. For paved shoulders only, upon express permission of the State's Inspector, Provision A may be waived and Provision 3 backfill requirements shall apply.

B. Backfill in Paved Shoulder Areas:

The backfill to within 12 in. of the existing or proposed profile grade shall conform to A1 above. The upper 12 in. shall consist of 8 in. Class 2 aggregate base compacted to a relative compaction of not less than 95 percent, covered with a tack coat of liquid asphalt and 4 in. asphalt concrete placed and compacted in two lifts and rolled to a smooth, even finish.

C. Backfill in Unpaved Shoulder Areas:

The backfill to within 12 in. of the existing or proposed profile grade shall conform to A1 above. The upper 12 in. shall consist of Class 2 aggregate base compacted to not less than 95 percent.

D. Backfill Outside of Highway Shoulders:

The backfill material may consist of material from excavation, free from stones or lumps exceeding 3 in., vegetable matter, or other unsatisfactory material, and shall be compacted in lifts not exceeding 8 in. to a relative compaction of 90 percent. When the material from excavation is unsuitable for use as backfill, it shall be disposed of and replaced with material meeting the above requirements of A1.

Excess material shall be disposed of outside the State right of way or at a location designated by the Department of Transportation's representative.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT STEEL PLATE BRIDGING UTILITY PROVISIONS
 TR -0157 (Rev. 07/2009)

To accommodate excavation work, steel plate bridging may be necessary. All conditions for use of steel plate bridging should be set forth in the special provisions.

Consideration of steel plate bridging should take into account the following factors:

1. Traffic speed.
2. Traffic Volume and Composition.
3. Duration and dimensions (width & daily estimated lengths) of the proposed excavation.
4. Weather conditions.

When backfilling operations of an excavation in the traveled way, whether transverse or longitudinal, cannot be properly completed within a work day, steel plate bridging with a non-skid surface and shoring (see Trenching & Shoring) may be required to preserve unobstructed traffic flow. In such cases, the following conditions shall apply:

1. Steel plate bridging on freeways is not allowed.
2. Steel plates used for bridging must extend a minimum of 12" beyond the edges of the trench.
3. Steel plate bridging shall be installed to operate with minimum noise.
4. The trench shall be adequately shored, (as mentioned in Section 629 of the Encroachment Permits Manual) to support the bridging and traffic loads.
5. Temporary paving with cold asphalt concrete shall be used to feather the edges of the plates, if plate installation by Method (2) described below, is used.
6. Bridging shall be secured against displacement by using adjustable cleats, shims, or other devices.

As required by the district, steel plate bridging and shoring shall be installed using either Method (1) or (2):

Method 1 For speeds of 45 MPH or greater:

The pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate.

Approach plate(s) and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of 2 dowels pre-drilled into the corners of the plate and drilled 2" into the pavement. Subsequent plates are to be butted and tack welded to each other.

Method 2 For Speeds less than 45 mph:

Approach plate(s) and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of 2 dowels pre-drilled into the corners of the plate and drilled 2" into the pavement. Subsequent plates are to be butted and tack welded to each other. Fine graded asphalt concrete shall be compacted to form ramps, maximum slope 8.5 % with a minimum 12" taper to cover all edges of the steel plates. When steel plates are removed, the dowel holes in the pavement shall be backfilled with either graded fines of asphalt concrete mix, concrete slurry, epoxy or an equivalent that is satisfactory to the Caltrans' representative.

The permittee is responsible for maintenance of the steel plates, shoring, asphalt concrete ramps, and ensuring that they meet minimum specifications. Unless specifically noted or granted in the special provisions, or approved by the State representative, steel plate bridging shall not exceed 4 consecutive working days in any given week. Backfilling of excavations shall be covered with a minimum 3" temporary layer of cold asphalt concrete.

The following table shows the advisory minimal thickness of steel plate bridging required for a given trench width (A-36 grade steel, designed for HS20-44 truck loading per Caltrans Bridge Design Specifications Manual).

Trench Width	Minimum Plate Thickness
10"	One-half inch - 1/2"
1'-11"	Three-quarters inch - 3/4"
2'-7"	Seven-eighths inch - 7/8"
3'-5"	One inch - 1"
5'-3"	One & three-quarter inch - 1 3/4"

NOTE: For spans greater than 5'-3", a structural design shall be prepared by a California registered civil engineer.

All steel plates within the right of way whether used in or out of the traveled way shall be without deformation. Inspectors can determine the trueness of steel plates by using a straight edge and should reject any plate that is permanently deformed.

Steel plates used in the traveled portion of the highway shall have a surface that was manufactured with a nominal Coefficient Of Friction (COF) of 0.35 as determined by California Test Method 342 (See Appendix H, Encroachment Permits Manual). If a different test method is used, the permittee may utilize standard test plates with known coefficients of friction available from each Caltrans District Materials Engineer to correlate skid resistance results to California Test Method 342. Based on the test data, the permittee shall determine what amount of surface wear is acceptable, and independently ascertain when to remove, test, or resurface an individual plate.

Caltrans Inspectors should not enforce plate removal unless it is permanently deformed or delivered without the required surfacing. However, an inspector should document in a diary all contacts with the contractor.

A Rough Road sign (W8-8) with black lettering on an orange background may be used in advance of steel plate bridging. This sign is used along with any other required construction signing.

Surfacing requirements are not necessary for steel plates used in parking strips, on shoulders not used for turning movements, or on connecting driveways, etc., not open to the public.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT UNDERGROUND UTILITY PROVISIONS
 TR - 0163 (Rev. 03/2013)

Highway and Freeway encasement requirements for Transverse crossings of Utility installations, installed by the following methods. The pavement or roadway shall not be open-cut unless specifically allowed under a "UT" permit. Utility installations shall not be installed inside of culverts or drainage structures.

The installation of Uncased High Pressure Natural Gas pipelines, on a case by case basis may be allowed, when in compliance with TR-0158 Special Provisions, "Exception to Policy" for Uncased High Pressure Natural Gas Pipelines.

Encasement Requirements based on: Installation Method, Type of Highway Facility and Material Transported in carrier.						
Facility Type	Bore and Jack		Directional Drilling		Trenching	
	Frwy/Expwy	Conventional	Frwy/Expwy	Conventional	Frwy/Expwy	Conventional
High Risk (Section 605)	Encase	Encase	Encase	Encase	Encase	Encase
Low Risk (Section 605)	Encase	Encase	Encase	Encase	Encase	Encase*
Exempt Facilities (Section 605)	Encase	Encase	Encase*	Encase*	Encase*	Encase*
Pressurized Fluids	Encase	Encase	Encase	Encase	Encase	Encase
Natural Gas Lines Minimum 7.5' Depth (Appendix H)	Encase*	Encase*	Encase*	Encase*	Encase*	Encase*
Gravity Flows	Encase	Encase	Encase	Encase	Encase*	Encase*

*NOTE: The District Permit Engineer may waive at his/her discretion the encasement requirement when warranted.

UG 1. CASINGS:

Casings should be steel conduit with a minimum inside diameter sufficiently larger than the outside diameter of the pipe or ducts to accommodate placement and removal. The casing can be either new or used steel pipe, or an approved connector system. Used pipe shall be pre-approved by the Department's engineer or representative before installation.

When the method of Horizontal Directional Drilling is used to place casing, the use of High Density Polyethylene Pipe (HDPE) as casing is acceptable. In specific instances the approval of Headquarters Office of Encroachment Permits, may be required.

Reinforced Concrete Pipe (RCP) in compliance of State Standard Specifications is an acceptable carrier for storm drain gravity flow or non-pressure flow. RCP when installed by Bore & Jack shall have rubber gaskets at the joints, and holes for grouting of voids left by jacking operations, see "E" below.

- A. All pipes 6" or larger in diameter, or placement of multiple pipes or ducts, regardless of diameters, shall require encasement.
- B. Minimum wall thickness for steel pipe casing for different lengths and diameters of pipes are as follows:

Casing Pipe (Diameter)	Minimum Wall Thickness	
	Up to 150 ft (Length)	Over 150 ft (Length)
6" to 28"	1/4"	1/4"
30" to 38"	3/8"	1/2"
40" to 60"	1/2"	3/4"
62" to 72"	3/4"	3/4"

- C. Spiral welded casing is authorized provided the casing is new and the weld is smooth.

- D. The ends of the casing shall be plugged with ungrouted bricks or other suitable material approved by the Department's representative.
- E. When required by the Department's representative, the permittee shall at his expense, pressure grout the area between the pavement and the casing from within the casing in order to fill any voids caused by the work covered under this permit. The increments for grout holes inside the pipe shall be 8' staggered and located 22-1/2 degrees from vertical axis of the casing. Pressure shall not exceed 5 psig for a duration sufficient to fill all voids.
- F. There is a spacing requirement when placement of multiple encasements is requested. The distance between multiple encasements shall be the greater of either 24" or twice that of the diameter of the larger pipe being installed.
- G. The casings placed within freeway right-of-way shall extend to the access control lines.
- H. Wing cutters, if used, shall be a maximum of 1" larger than the casing. Voids caused by the use of wing cutters shall be grouted in accordance with "E" above.
- I. A band welded to the leading edge of the casing should be placed square to the alignment. The band should not be placed on the bottom edge. Flaring the lead section on bores over 100' shall not be permitted.
- J. All casing lengths shall equal to the auger length.
- K. The casings within conventional highways shall extend 5' beyond the back of curb or edge of pavement, or to the right of way line if less. Where PCC cross-gutter exists, the casing shall extend at least 5' beyond the back of the cross-gutter, or to the right of way line if less.

Bore and receiving pits shall be:

- A. Located at least 10' or more from the edge of pavement on conventional highways in rural areas.
- B. Located 5' behind the concrete curb or AC dike on conventional highways in urban areas.
- C. Located 5' outside the toe of slope of embankment areas.

- D. Located outside freeway right of way.
- E. Adequately fenced and/or have a Type-K barrier placed around them.
- F. Adequately shored in accordance with Cal-OSHA requirements. Shoring for jacking and receiving pits located within 15' of traffic lanes on a State highway shall not extend more than 36" above the pavement grade unless otherwise authorized by Department's representative. Reflectors shall be affixed to the shoring on the sides facing traffic. A 6' chain link fence shall be installed around the perimeter of the pits during non-working hours.
- G. All pits should have crushed-rock and sump areas to clear groundwater and water used to clean the casing. Where ground water is found and pumping is required, the pits shall be lined with filter fabric.

**UG 2. DIRECTIONAL DRILLING:
Bore and Receiving Pits**

When directional drilling is the approved method for pipe installation, drilling plans shall contain information listed as follows:

1. Location of: entry and exit point, access pit, equipment, and pipe staging area.
2. Proposed drill path alignment (horizontal and vertical).
3. Location and clearances of all other facilities.
4. Depth of cover.
5. Soil analysis.*
6. Carrier pipe length, diameter, thickness, and material (HDPE/steel) and ream pipe diameter.
7. Detailed carrier pipe calculations confirming ability to withstand installation loads and long term operational loads including H2O.
8. Proposed drilling fluid composition, viscosity, and density (based on soils analysis).
9. Drilling fluid pumping capacity, pressures, and flow rates
10. State right-of-way lines, property, and utility right of way or easement lines.
11. Elevations.
12. Type of tracking method/system and accuracy used.
13. A detailed plan for monitoring ground surface movement (settlement or heave) resulting from the drilling operation.

* May be waived by the District Permit Engineer for HDD jobs less than 6" in diameter and a traverse crossing less than 150'.

UG 3. LIMIT OF EXCAVATION:

No excavation is allowed within 10' from the edge of pavement except in curbed urban areas or as specified in the permit. Where no curb exists and excavations within 10' of the traveled way are to remain open, a temporary Type-K railing shall be placed at a 20:1 taper or as otherwise directed by the Department.

UG 4. TUNNELING:

Review, requirements of Section 623.6 of the Encroachment Permits Manual, if applicable. In addition to the requirements of "UG1" the following requirements apply:

- A. For the purpose of this provision, a tunnel is defined as any pipe, 30" or larger in diameter placed.
- B. When tunneling is authorized, the permittee shall provide full-time inspection of tunneling operations. The Department's representative shall monitor projects.

- C. A survey grid shall be set and appropriately checked over the centerline of the pipe jacking or tunneling operation. Copies of the survey notes shall be submitted to the Department's representative.
- D. Sand shields may be required as ground conditions change.
- E. The method used to check the grade and alignment shall be approved by the Department's representative.
- F. Pressure grouting for liner plates, rib and spiling, or rib and lagging tunnels shall be at every 8' section or at the end of work shift before the next section is excavated. All grouting shall be completed at the end of each workday.
- G. A method for securing the headway at the end of each workday is required. Breastplates shall be installed during working hours for running sand or super-saturated soil.

UG 5. HIGH AND LOW RISK FACILITIES:

High and Low Risk Facilities, as defined in the Department's current Manual on High and Low Risk Underground Facilities, shall be installed with a minimum cover of 42".

UG 6. EXEMPT AND OTHER UNDERGROUND FACILITIES:

A. Exempt Facilities:

1. Gas service lines no larger than 2" in diameter or operating at 60 psig or less.
2. Underground electrical service conductors with a potential to ground of 300 volts or less.
3. Departmental owned electrical systems.

B. All facilities other than high and low risk shall have a minimum cover of 36" except for service connections, which shall have a minimum cover of 30".

UG 7. DETECTOR STRIP:

A continuous metallic detector strip shall be provided with non-metallic main installations. Service connections shall be installed at right angles to the centerline of the State highway where possible.

UG 8. BACKFILLING:

All backfilling shall conform to the applicable sections of the Department's Standard Specifications. Ponding or jetting methods of backfilling is prohibited.

Any required compaction tests shall be performed by a certified laboratory at no cost to the Department and the laboratory report furnished to the Department's representative.

UG 9. ROADWAY SURFACING AND BASE MATERIALS:

When the permit authorizes installation by the open cut method, surfacing and base materials and thickness thereof shall be as specified in the permit.

Temporary repairs to pavements shall be made and maintained upon completion of backfill until permanent repairs are made. Permanent repairs to pavements shall be made within thirty (30) days of completion of backfill unless otherwise specified by the Department. Temporary pavement patches shall be placed and maintained in a smooth riding plane free of humps and/or depressions.

UG 10. DAMAGE TO TREE ROOTS:

No tree roots over 3" will be cut within the tree drip line when trenching or other underground work is necessary adjacent to roadside trees. The roots that are 3" or more in diameter inside the tree drip line shall be tunneled under and wrapped in burlap and kept moist until the trench is refilled. Trenching machines may not be used under trees if the trunk or limbs will be damaged by their use.

If the trees involved are close together and of such size that it is impractical to protect all roots over 3" in diameter, or when roots are less than 4" in diameter, outside tree drip line, special arrangements may be made whereby pruning of the tree tops to balance the root loss can be done by the permittee under the close supervision of the District Landscape Specialist or District Tree Maintenance Supervisor. Manholes shall not be installed within 20' of any trunk.

UG 11. PIPES ALONG ROADWAY:

Pipes and conduits paralleling the pavement shall be located as shown on the plans or located outside of pavement as close as possible to the right-of-way line.

UG 12. BORROW AND WASTE:

Borrow and waste will be allowed within the work limits only as specified in the permit.

UG 13. MARKERS:

The permittee shall not place any markers that create a safety hazard for the traveling public or departmental employees.

UG 14. CATHODIC PROTECTION:

The permittee shall perform stray current interference tests on underground utilities under cathodic protection. The permittee shall notify the Department prior to the tests. The permittee shall perform any necessary corrective measures and advise the Department.

UG 15. TIE-BACKS:

- A. Tie-backs shall be placed for the sole purpose of supporting shoring and/or soldier piles placed outside State highway rights-of-way to facilitate permittee's excavation.
- B. Tiebacks shall be disconnected from the shoring and/or soldier piles one (1) year prior to releasing the bond.

UG 16. INSTALLATION BY OPEN CUT METHOD:

When the permit authorizes installation by the open cut method no more than one lane of the highway pavement shall be open-cut at any one time. Any exceptions shall be in writing by the Department's representative. After the pipe is placed in the open section, the trench is to be backfilled in accordance with specifications, temporary repairs made to the surfacing and that portion opened to traffic before the pavement is cut for the next section.

If, at the end of the working day, backfilling operations have not been properly completed, steel plate bridging shall be required to make the entire highway facility available to the traveling public in accordance with the Steel Plate Bridging Special Provisions (TR-0157)

UG 17. PAVEMENT REMOVAL:

PCC pavement to be removed shall be saw cut at a minimum depth of 4" to provide a neat and straight pavement break along both sides of the trench. AC pavement shall be saw cut to the full depth.

Where the edge of the trench is within 2' of existing curb and gutter or pavement edge, the asphalt concrete pavement between the trench and the curb or pavement edge shall be removed.

UG 18. MAINTAIN ACCESS:

Where facilities exist (sidewalks, bike paths), a minimum width of 4' shall be maintained at all times for safe pedestrian and bicyclist passage through the work area.

UG 19. SIDES OF OPEN-CUT TRENCHES:

Sides of open cut trenches in paved areas shall be kept as nearly vertical as possible. Trenches shall not be more the 2' wider than the outside diameter of the pipe to be laid therein, plus the necessary width to accommodate shoring.

UG 20. EXCAVATION UNDER FACILITIES:

Where it is necessary to excavate under existing curb and gutter, or underground facilities, the void shall be backfilled with two (2) sack cement-sand slurry.

UG 21. PERMANENT REPAIRS TO PCC PAVEMENT:

Repairs to PCC pavement shall be made of Portland Cement Concrete containing a minimum of 658 lbs. or 7 sack of cement per cubic yard. Replaced PCC pavement shall equal existing pavement thickness. The concrete shall be satisfactorily cured and protected from disturbance for not less than forty-eight (48) hours. Where necessary to open the area to traffic, no more than two (2%) percent by weight of calcium chloride may be added to the mix and the road opened to traffic after six (6) hours.

UG 22. REMOVAL OF PCC SIDEWALKS OR CURBS:

Concrete sidewalks or curbs shall be saw cut to the nearest score marks and replaced equal in dimension to that removed with score marks matching existing sidewalk or curb.

UG 23. SPOILS:

No earth or construction materials shall be dragged or scraped across the highway pavement, and no excavated earth shall be placed or allowed to remain at a location where it may be tracked on the highway traveled way, or any public or private approach by the permittee's construction equipment, or by traffic entering or leaving the highway traveled way. Any excavated earth or mud so tracked onto the highway pavement or public or private approach shall be immediately removed by the permittee.

1. **AUTHORITY:** The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.
2. **REVOCAION:** Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.
3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay permit fees when due can result in rejection of future applications and denial of permits.
4. **ASSIGNMENT:** No party other than the permittee or permittee's authorized agent is allowed to work under this permit.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.
6. **BEGINNING OF WORK:** When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.
7. **STANDARDS OF CONSTRUCTION:** All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."
8. **PLAN CHANGES:** Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.
9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
10. **PERMIT AT WORKSITE:** Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).
12. **PERMITS FROM OTHER AGENCIES:** This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.
13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum passageway of 4' shall be maintained through the work area at existing pedestrian or bicycle facilities. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.09 Public Safety of the Department Standard Specifications.
14. **PUBLIC TRAFFIC CONTROL:** As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. While providing traffic control, the needs and control of all road users [motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act of 1990 (ADA)] shall be an essential part of the work activity.

Day and night time lane closures shall comply with the California Manual on Uniform Traffic Control Devices (Part 6, Temporary Traffic Control), Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.
15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the California Manual on Uniform Traffic Control Devices (Chapter 6E, Flagger Control).
16. **STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this specific encroachment permit. If Encroachment Permit Special Provisions allow for the storage of equipment or materials within the State right of way, the equipment and material storage shall comply with Standard Specifications, Standard Plans, Special Provisions, and the Highway Design Manual. The clear recovery zone widths must be followed and are the minimum desirable for the type of facility indicated below: freeways and expressways - 30', conventional highways (no curbs) - 20', conventional highways (with curbs) - 1.5'. If a fixed object cannot be eliminated, moved outside the clear recovery zone, or modified to be made yielding, it should be shielded by a guardrail or a crash cushion.
17. **CARE OF DRAINAGE:** Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.
18. **RESTORATION AND REPAIRS IN RIGHT OF WAY:** Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).

19. **RIGHT OF WAY CLEAN UP:** Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.
20. **COST OF WORK:** Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.
21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.
22. **AS-BUILT PLANS:** When required, permittee shall submit one (1) set of folded as-built plans within thirty (30) days after completion and approval of work in compliance with requirements listed as follows:
1. Upon completion of the work provided herein, the permittee shall send one vellum or paper set of As-Built plans, to the State representative. Mylar or paper sepia plans are not acceptable.
 2. All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
 3. The plans are to be stamped or otherwise noted AS-BUILT by the permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a State stamp, or Caltrans representative signature, shall be used for producing the As-Built plans.
 4. If As-Built plans include signing or striping, the dates of signing or striping removal, relocation, or installation shall be shown on the plans when required as a condition of the permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage shall show the removal, relocation or installation dates of the appropriate staged striping and signing.
 5. As-Built plans shall contain the Permit Number, County, Route, and Post Mile on each sheet.
 6. Disclaimer statement of any kind that differ from the obligations and protections provided by Sections 6735 through 6735.6 of the California Business and Professions Code, shall not be included on the As-Built plans. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department of Transportation retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future permits, or a provision requiring a public agency to supply additional bonding.
23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.
24. **BONDING:** The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.
25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the permittee shall comply with said notice at his sole expense.
26. **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are revealed in the work vicinity, the permittee shall immediately stop work, notify the Department's representative, retain a qualified archaeologist who shall evaluate the site, and make recommendations to the Department representative regarding the continuance of work.
27. **PREVAILING WAGES:** Work performed by or under a permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements are directed to State of California Department of Industrial Relations, 525 Golden Gate Avenue, San Francisco, California 94102.
28. **RESPONSIBILITY FOR DAMAGE:** The State of California and all officers and employees thereof, including but not limited to the Director of Transportation and the Deputy Director, shall not be answerable or accountable in any manner for injury to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property from any cause. The permittee shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property arising out of work, or other activity permitted and done by the permittee under a permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit.
- The permittee shall indemnify and save harmless the State of California, all officers, employees, and State's contractors, thereof, including but not limited to the Director of Transportation and the Deputy Director, from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by statute.

The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. The permittee waives any and all rights to any type of expressed or implied indemnity against the State, its officers, employees, and State contractors. It is the intent of the parties that the permittee will indemnify and hold harmless the State, its officers, employees, and State's contractors, from any and all claims, suits or actions as set forth above regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of the State, the permittee, persons employed by the permittee, or acting on behalf of the permittee.

For the purpose of this section, "State's contractors" shall include contractors and their subcontractors under contract to the State of California performing work within the limits of this permit.

29. **NO PRECEDENT ESTABLISHED:** This permit is issued with the understanding that it does not establish a precedent.
30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**
A. The permittee, for himself, his personal representative, successors in interest, and assigns as part of the consideration hereof, does hereby covenant and agree that:
1. No person on the grounds of race, color, or national origin shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
2. That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination shall be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
3. That such discrimination shall not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the right of way.
4. That the permittee shall use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.
5. That in the event of breach of any of the above nondiscrimination covenants, the State shall have the right to terminate the permit and to re-enter and repossess said land and the land and the facilities thereon, and hold the same as if said permit had never been made or issued.
31. **MAINTENANCE OF HIGHWAYS:** The permittee agrees, by acceptance of a permit, to properly maintain any encroachment. This assurance requires the permittee to provide inspection and repair any damage, at permittee's expense, to State facilities resulting from the encroachment.
32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code Section 682.5, the Department of Transportation shall not be responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State and the city or county against any and all claims arising out of any activity for which the permit is issued.

The permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act of 1990 in the conduct of the event, and further agrees to indemnify and save harmless the State of California, all officers and employees thereof, including but not limited to the Director of Transportation, from any claims or liability arising out of or by virtue of said Act.

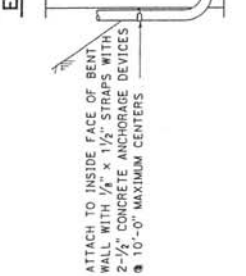
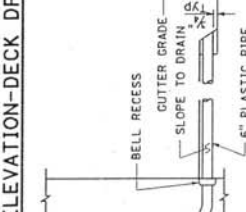
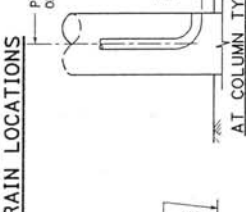
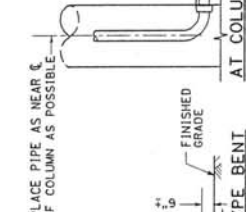
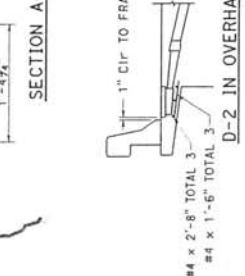
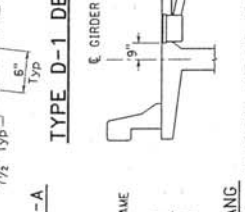
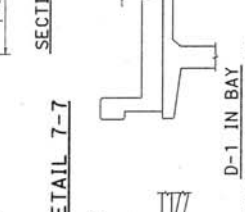
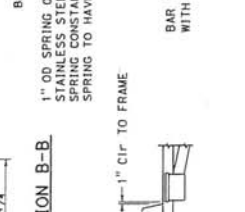
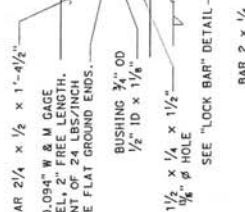
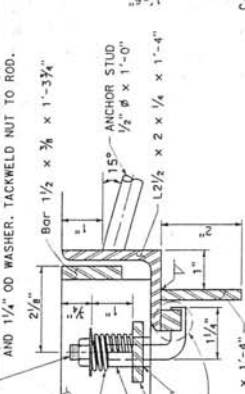
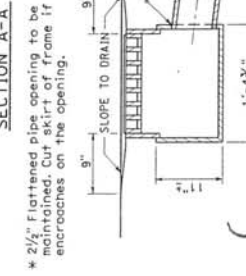
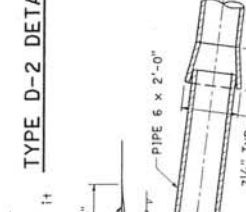
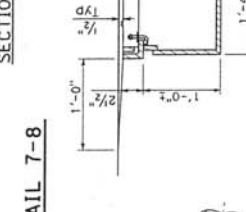
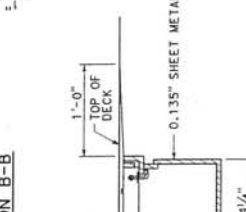
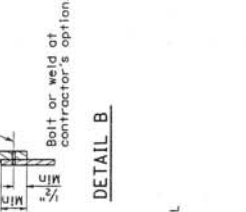
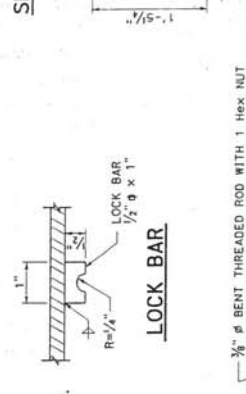
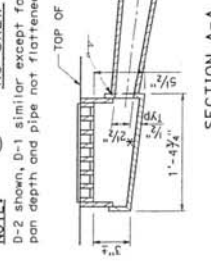
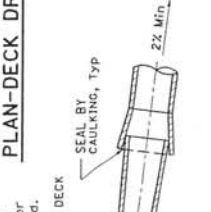
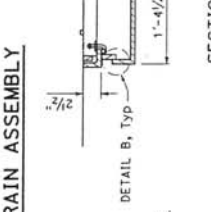
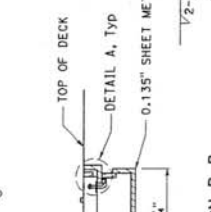
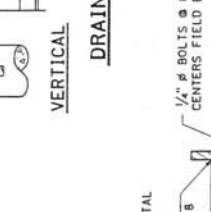
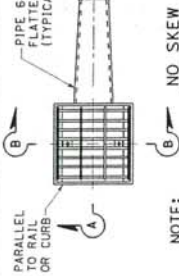
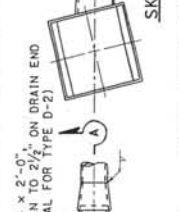
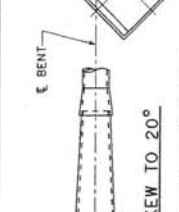
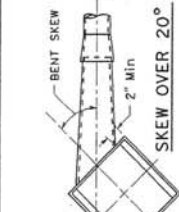
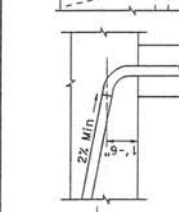
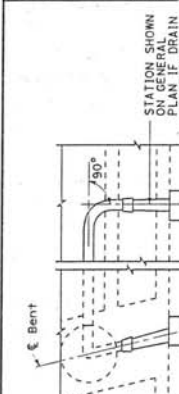
33. **PRIVATE USE OF RIGHT OF WAY:** Highway right of way shall not be used for private purposes without compensation to the State.

The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.

34. **FIELD WORK REIMBURSEMENT:** Permittee shall reimburse State for field work performed on permittee's behalf to correct or remedy hazards or damaged facilities, or clear debris not attended to by the permittee.
35. **NOTIFICATION OF DEPARTMENT AND TMC:** The permittee shall notify the Department's representative and the Transportation Management Center (TMC) at least 7 days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur 3 days before closure or other potential traffic impacts. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative shall be notified as soon as possible.
36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The permittee, upon notification by the Department's representative, shall immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension shall be borne by the permittee.
37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code Section 4216 et. seq., including, but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The permittee shall provide notification at least 48 hours before performing any excavation work within the right of way.

DIST.	COUNTY	ROUTE	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

CIVIL ENGINEER
 MAY 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS OF THE WORK AND FOR THE PROTECTION OF THE WORK FROM DAMAGE BY THE PUBLIC.



NOTE:
 All pipe to be NPS 6 x 0.135" welded steel pipe except as noted and galvanized if not except in concrete. Fittings and bends shall have a minimum wall thickness of 1/4". All pipe shall be smooth throughout or connected by a steel pipe, also smooth throughout inside of pipe except as noted. All bends to be on 1'-6" minimum radius measured along pipe. All bends to be smooth. Pipes not encased in concrete to be smooth. Pipes encased in concrete to be smooth. All pipe shall be galvanized and 10'-0" maximum spacing throughout deck drain assembly after fabrication.

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COUNTY ROUTE PROJECT TOTAL PROJECT SHEET NO. SHEETS
 REGISTERED CIVIL ENGINEER
 Gordon Mohr
 No. 093971
 May 20, 2011
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS
 SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED
 HEREON AND THE CONSEQUENCES OF ANY ERRORS OR OMISSIONS.
 REGISTERED PROFESSIONAL ENGINEER

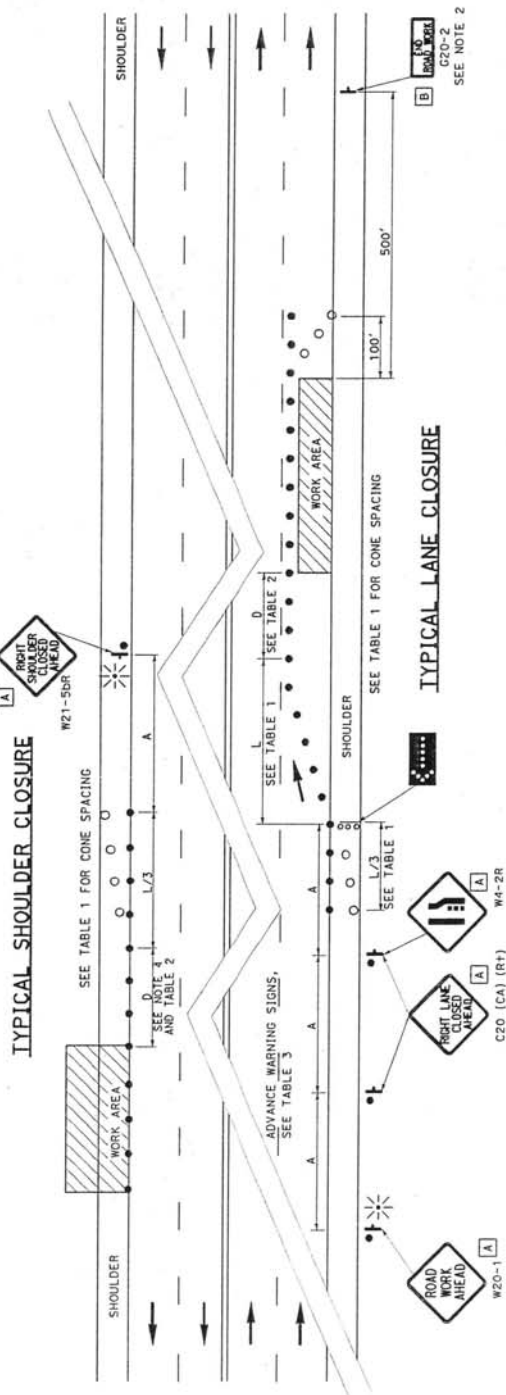


TABLE 1

APPROACH SPEED	Min L		Max Spacing of Cones
	f	L/3	
20 AND BELOW	80	30	20
25	125	45	25
30	180	60	30
35	245	85	35
40	320	110	40
45	400	140	45
50	500	200	50

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
* SEE NOTE 3

TABLE 2

APPROACH SPEED	Min D	DOWNGRADE Min D *		
		-3%	-6%	-9%
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
OVER 50	425	446	474	507

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.
* SEE NOTE 3

TABLE 3

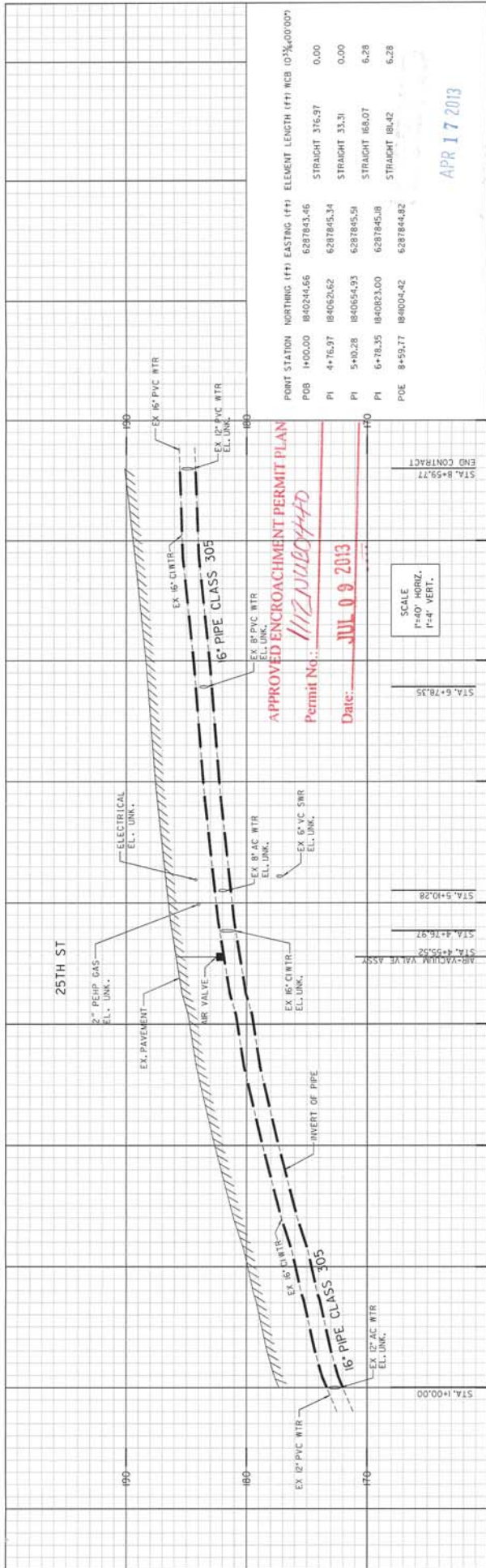
ROAD TYPE	DISTANCE BETWEEN SIGNS	
	Urban (Speed 25 mph or less)	Min A (ft)
URBAN (SPEED 25 mph OR LESS)	100	100
URBAN (SPEED 30 mph OR MORE)	350	350
RURAL	500	500
EXPRESSWAY / FREEWAY	SEE NOTE 3	SEE NOTE 3

- LEGEND**
- TRAFFIC CONE
 - TRAFFIC CONE (OPTIONAL TAPER)
 - ⬇ TEMPORARY SIGN
 - ➡ DIRECTION OF TRAVEL
 - ⚡ FLASHING ARROW SIGN (FAS)
 - ⚡ FAS SUPPORT OR TRAILER
 - ⚡ PORTABLE FLASHING BEACON
- SIGN PANEL SIZE (Min)**
- A 36" x 36"
 - B 36" x 18"

- NOTES:**
1. California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.
 2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
 3. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
 4. D is longitudinal buffer space and is optional only when work area is beyond the shoulder or clear recovery zone where there is no shoulder.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**
 NO SCALE

T11

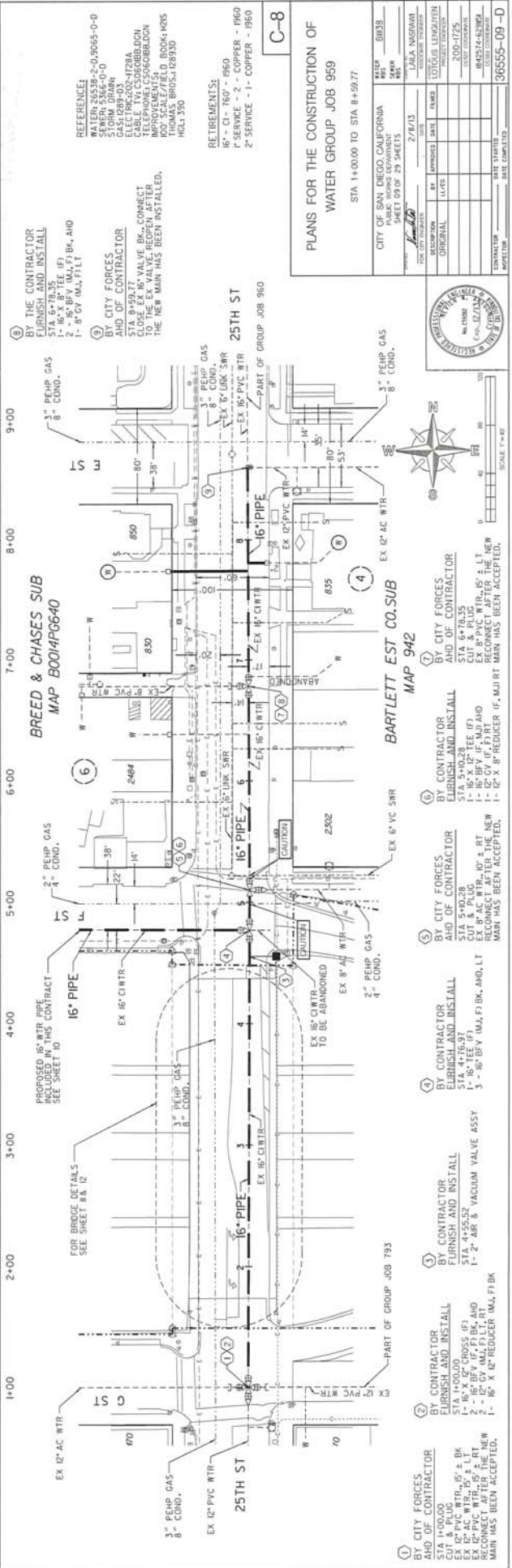


APPROVED ENCROACHMENT PERMIT PLAN
 Permit No.: **1112NUL004470**
 Date: **JUL 9 2013**

SCALE
 1"=40' HORIZ.
 1"=4' VERT.

APR 17 2013

POINT STATION	NORTHING (FT)	EASTING (FT)	ELEMENT LENGTH (FT)	WCB (0.5% @ 0.00'D)
POB	1400.00	840244.66	6287843.46	0.00
PI	4+76.97	840524.62	6287845.34	0.00
PI	5+10.28	840554.93	6287845.58	6.28
PI	6+78.35	840823.00	6287845.18	6.28
POE	8+59.77	84004.42	6287844.82	



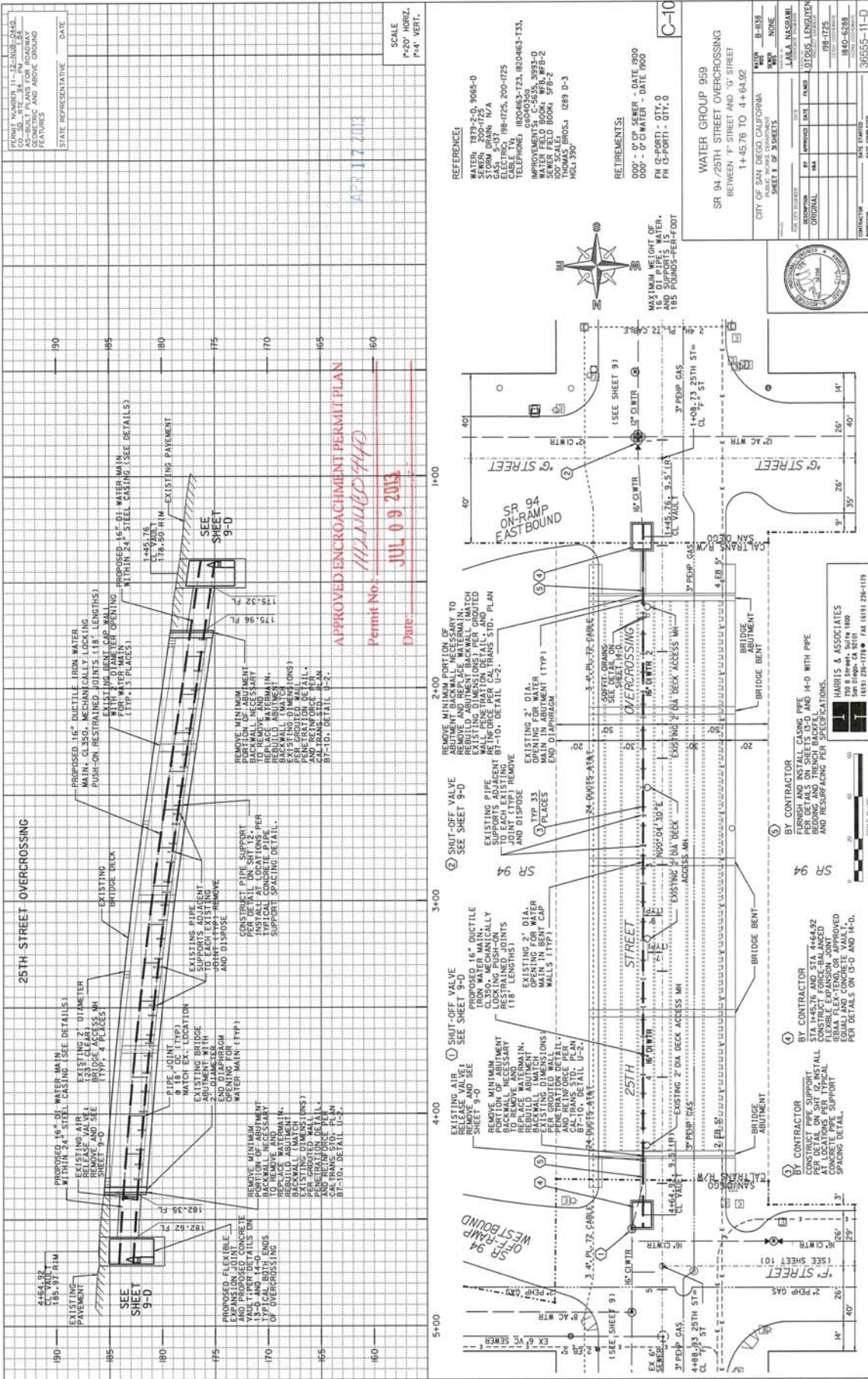
④ THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSTALLING ALL UTILITIES AND STRUCTURES TO BE INSTALLED.
 ⑤ BY CITY FORCES AND OF CONTRACTOR TO CLOSE EX 16\"/>

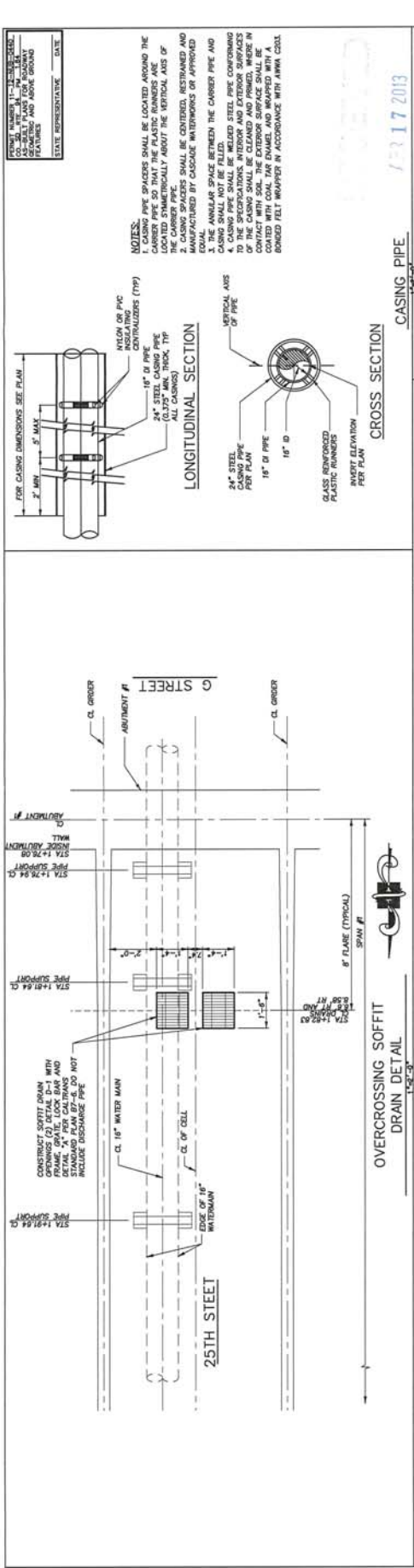
RETIREMENTS:
 16\"/>

REFERENCE:
 1. SAN DIEGO WATER DEPARTMENT STANDARD SPECIFICATIONS FOR WATER MAINS, 2005-12-8930
 2. SAN DIEGO WATER DEPARTMENT STANDARD SPECIFICATIONS FOR WATER MAINS, 2005-12-8930
 3. SAN DIEGO WATER DEPARTMENT STANDARD SPECIFICATIONS FOR WATER MAINS, 2005-12-8930

PLANS FOR THE CONSTRUCTION OF WATER GROUP JOB 959
 STA 1+00.00 TO STA 8+59.77

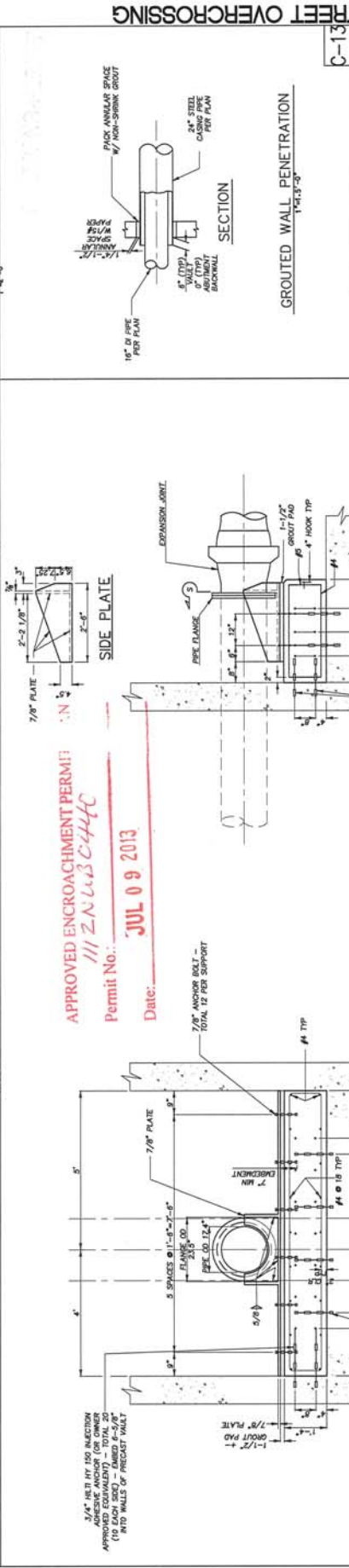
CITY OF SAN DIEGO, CALIFORNIA	DATE	2/7/13
PROJECT NO. 0959	BY	LALA NASRAWI
SHEET NO. 09 OF 29 SHEETS	DATE	2/7/13
DESIGNED BY	DATE	
CHECKED BY	DATE	
APPROVED BY	DATE	
CONTRACTOR	DATE	
SUPPLIER	DATE	
DATE COMPLETED		3/6/55-09-D





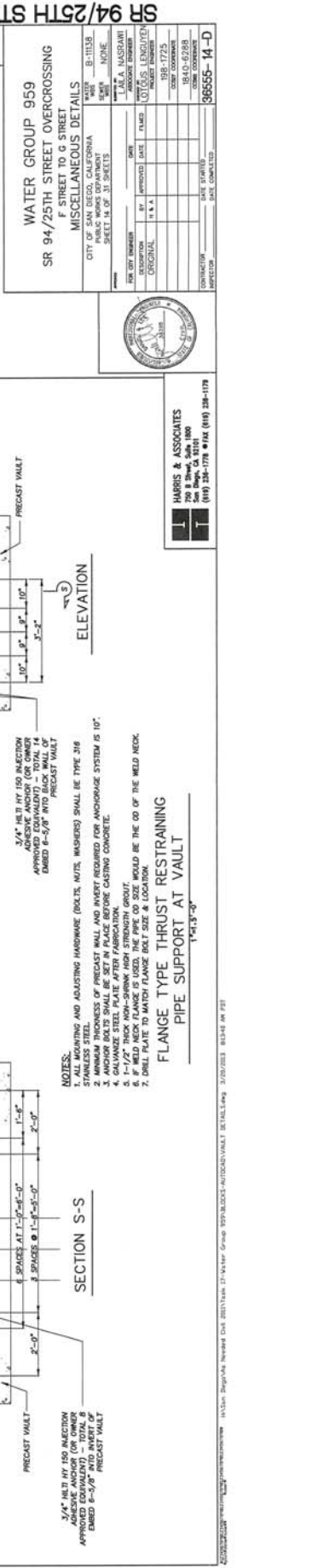
NOTES:

- CASING PIPE SPACERS SHALL BE LOCATED AROUND THE CARRIER PIPE SO THAT THE PLASTIC RINNERS ARE SPACED EQUALLY ABOUT THE VERTICAL AXIS OF THE CARRIER PIPE.
- CASING SPACERS SHALL BE CENTERED, RESTRAINED AND MANUFACTURED BY CASQUE WATERWORKS OR APPROVED EQUAL.
- THE ANNULAR SPACE BETWEEN THE CARRIER PIPE AND CASING SHALL NOT BE FILLED.
- THE ANNULAR SPACE BETWEEN THE CARRIER PIPE CONFORMING TO THE SPECIFICATIONS, INTERIOR AND EXTERIOR SURFACES OF THE CASING SHALL BE CLEANED AND PRIMED, WHERE IN CONTACT WITH THE CARRIER PIPE, AND SHALL BE COATED WITH COAL TAR ENAMEL AND WRAPPED WITH A BONDED FELT WRAPPER IN ACCORDANCE WITH AWWA C201.



NOTES:

- ALL MOUNTING AND ADJUSTING HARDWARE (BOLTS, NUTS, WASHERS) SHALL BE TYPE 316 STAINLESS STEEL.
- THICKNESS OF PRECAST WALL AND INVERT REQUIRED FOR ANCHORAGE SYSTEM IS 10".
- ANCHOR BOLTS SHALL BE SET IN PLACE BEFORE CASTING CONCRETE.
- ANCHOR BOLTS SHALL BE SET IN PLACE AFTER FABRICATION.
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NOTES:

- 3/4" HLT RT 150 INJECTION ADHESIVE ANCHOR (OR OWNER APPROVED EQUIVALENT) TO BE EMBEDDED 6"-5/8" INTO WALLS OF PRECAST VAULT.
- 3/4" HLT RT 150 INJECTION ADHESIVE ANCHOR (OR OWNER APPROVED EQUIVALENT) TO BE EMBEDDED 6"-5/8" INTO INVERT OF PRECAST VAULT.

PROJECT NUMBER: 17-1113-0000
DATE: 02/17/13
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE REPRESENTATIVE: [Signature]

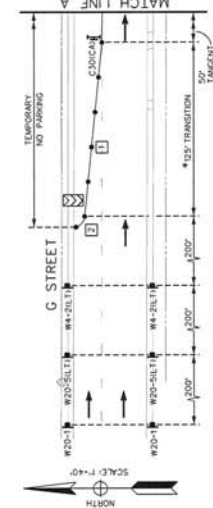
WATER GROUP 959
SR 94/25TH STREET OVERCROSSING
F STREET TO G STREET
MISCELLANEOUS DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PROJECT NUMBER: 17-1113-0000
DATE: 02/17/13
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE REPRESENTATIVE: [Signature]

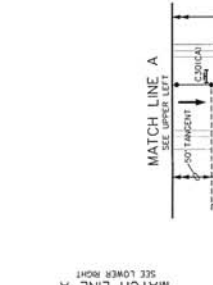
HARRIS & ASSOCIATES
700 E. 17th, Suite 1100
San Diego, CA 92101
(619) 594-1178 FAX: (619) 594-1179

CONTRACTOR: [Signature]
DATE STARTED: [Signature]
DATE COMPLETED: [Signature]

TRAFFIC SIGNALS WITH CONSTRUCTION SHALL BE COMBINED WITH TRAFFIC SIGNALS AND SIGNAL SECTION SIGNS - 1214 A MINIMUM OF 3 AFFECTING A TRAFFIC SIGNAL. WORK TRAFFIC SIGNAL TO REMAIN OPERATIONAL.



TRANSITION CALCULATION
 $L = \frac{WV^2}{15G}$ $= \frac{(10)(25)^2}{15(0.15)}$ = 125 FT
 USE 125 FT

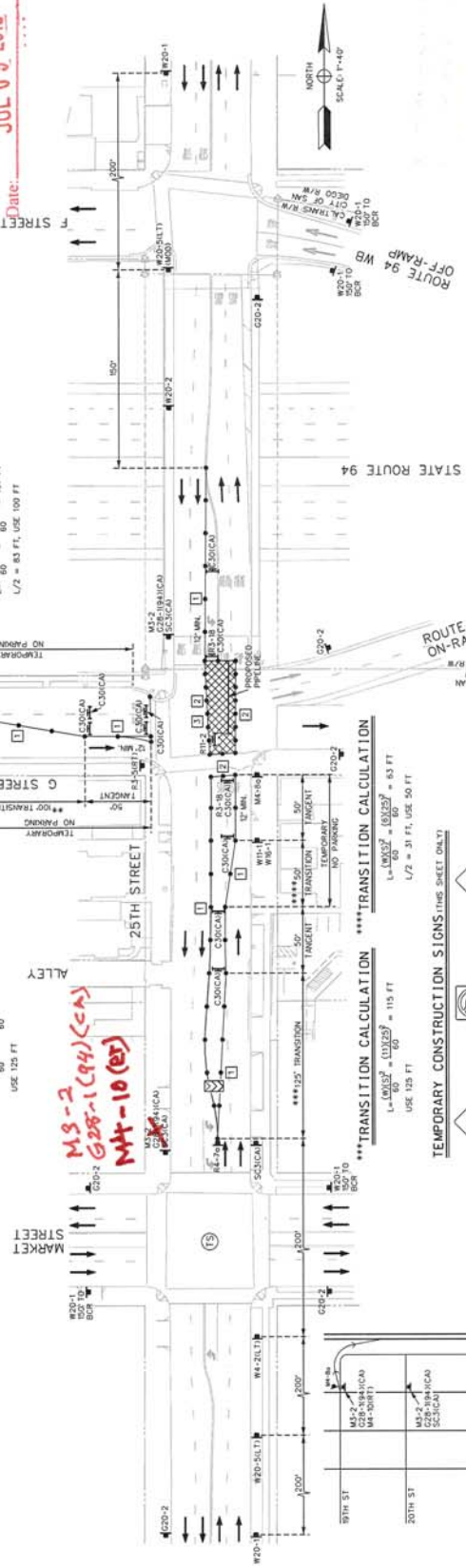


TRANSITION CALCULATION
 $L = \frac{WV^2}{15G}$ $= \frac{(10)(25)^2}{15(0.15)}$ = 187 FT
 USE 100 FT

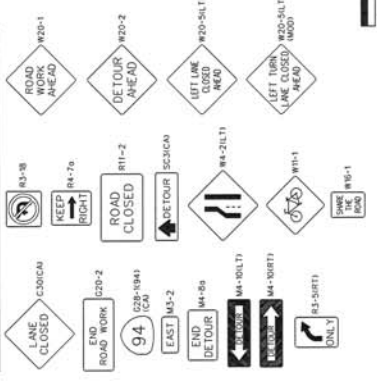
NOTES THIS SHEET
 1) REVISIONS SHALL BE PLACED AT 25' INTERVALS.
 2) REVISIONS SHALL BE PLACED AT 50' INTERVALS.
 3) SEE DETOUR PLAN THIS SHEET.

PERMIT NUMBER 11-2-2013-0410
 01 25 P.M. 11 21 2013
 STATE REPRESENTATIVE

APPROVED ENCROACHMENT PERMIT PLAN
 11/2/11/2013
 Permit No.:
 Date: JUL 9, 2013



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

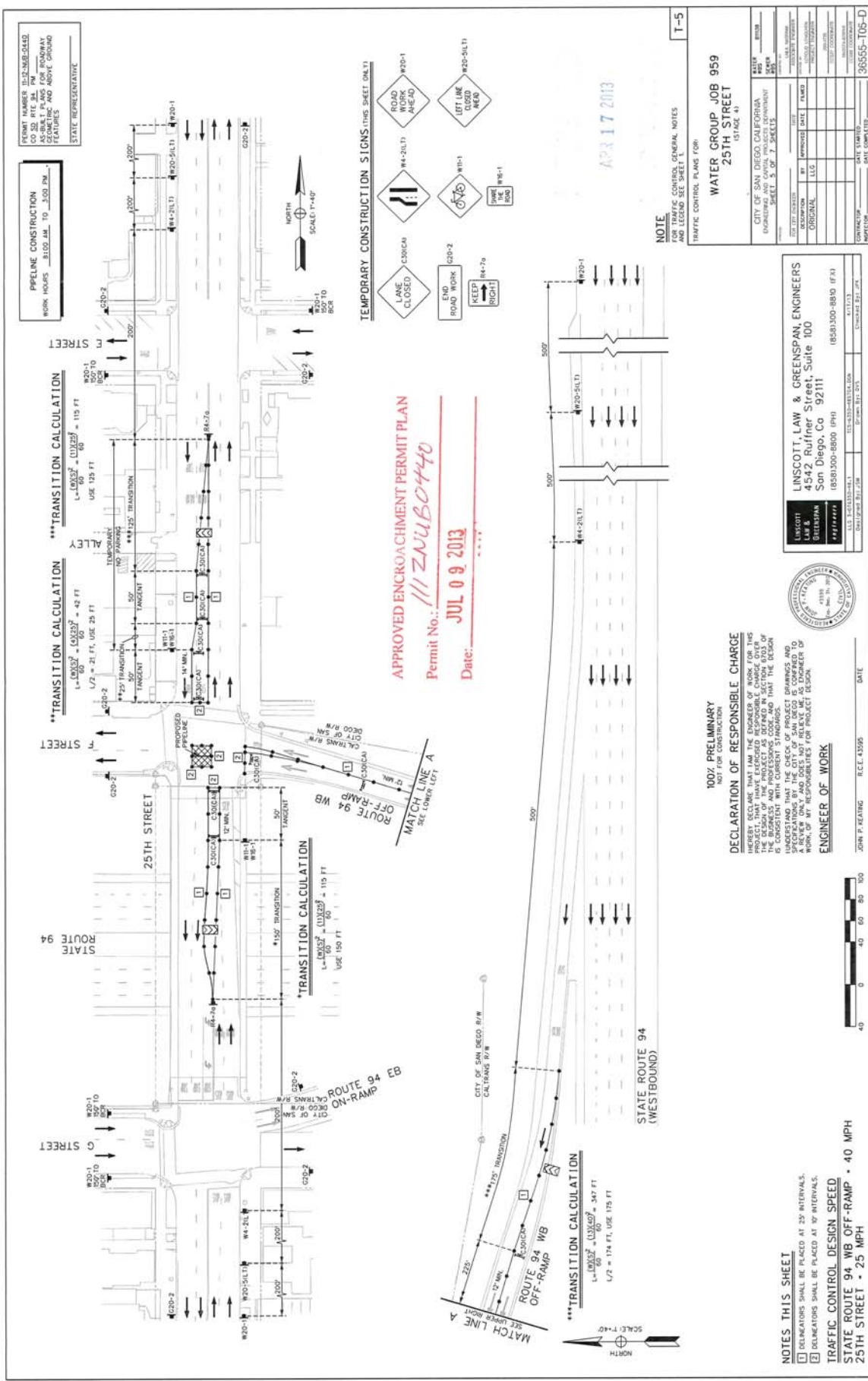


100% PRELIMINARY
 NOT FOR CONSTRUCTION
 DECLARATION OF RESPONSIBLE CHARGE
 I, THE ENGINEER, HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND I AM RESPONSIBLE FOR THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE CALIFORNIA CIVIL CODE. I HAVE REVIEWED THE DESIGN AND I AM Satisfied THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS AND PRACTICES. I UNDERSTAND THAT THE CHECKS OF PROJECT DRAWINGS AND SPECIFICATIONS ARE THE RESPONSIBILITY OF THE DESIGNER AND NOT THE ENGINEER OF WORK. MY RESPONSIBILITIES FOR PROJECT DESIGN.

ENGINEER OF WORK
 JOHN P. KEATING R.C.E. 43599 DATE: APR 17 2013
 LINSOTT, LAW & GREENSPAN, ENGINEERS
 4542 Rufner Street, Suite 100
 San Diego, Co 92111
 (619) 593-8800 (PH)
 (619) 593-8800 (FX)
 4171713
 102-4350-4831 (COM)
 102-4350-4831 (FAX)
 102-4350-4831 (CELL)
 102-4350-4831 (HOME)
 102-4350-4831 (OFFICE)
 102-4350-4831 (MOBILE)
 102-4350-4831 (PERSONAL)
 102-4350-4831 (BUSINESS)
 102-4350-4831 (RESIDENTIAL)
 102-4350-4831 (COMMERCIAL)
 102-4350-4831 (INDUSTRIAL)
 102-4350-4831 (AGRICULTURAL)
 102-4350-4831 (RECREATIONAL)
 102-4350-4831 (CULTURAL)
 102-4350-4831 (HISTORICAL)
 102-4350-4831 (ARCHITECTURAL)
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 102-4350-4831 (Interior Design)
 102-4350-4831 (Graphic Design)
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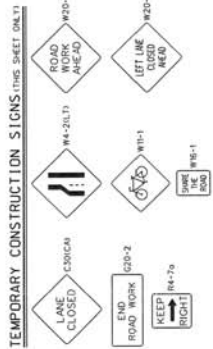
NOTE: ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR HIGHWAY AND LOCAL ROAD CONSTRUCTION. SEE SHEET T-1 FOR TRAFFIC CONTROL PLANS FOR WATER GROUP JOB 959 25TH STREET STAGE B

PROJECT NUMBER	11-2-2013-0410
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DESIGNER	JOHN P. KEATING
DATE	APR 17 2013
SCALE	SCALE: 1/4" = 1'-0"
PROJECT NUMBER	11-2-2013-0410
PROJECT NAME	WATER GROUP JOB 959 25TH STREET STAGE B
DATE	APR 17 2013
SCALE	SCALE: 1/4" = 1'-0"
DESIGNER	LINSOTT, LAW & GREENSPAN, ENGINEERS
APPROVED DATE	APR 17 2013
APPROVED BY	JOHN P. KEATING
DESIGNER	JOHN P. KEATING
DATE	APR 17 2013
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DESIGNER	LINSOTT, LAW & GREENSPAN, ENGINEERS
APPROVED DATE	APR 17 2013
APPROVED BY	JOHN P. KEATING
DESIGNER	JOHN P. KEATING
DATE	APR 17 2013</



PERMIT NUMBER 111ZNUB0440
 WORK HOURS 8:00 AM TO 3:00 PM
 STATE REPRESENTATIVE

PIPELINE CONSTRUCTION
 WORK HOURS 8:00 AM TO 3:00 PM



APPROVED ENCROACHMENT PERMIT PLAN
 Permit No.: 111ZNUB0440
 Date: JUL 9 2013

APR 17 2013

NOTE:
 FOR TRAFFIC CONTROL GENERAL NOTES
 SEE TRAFFIC CONTROL SHEET T-5

TRAFFIC CONTROL PLANS FOR
 WATER GROUP JOB 959
 25TH STREET
 (SHEET 4)

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 3 OF 7 SHEETS	DATE: 04/17/13 DRAWN BY: JPM CHECKED BY: JPM	DATE: 04/17/13 DATE STARTED: 04/17/13 DATE COMPLETE: 04/17/13
--	--	---

LINSKOTT, LAW & GREENSPAN, ENGINEERS
 4542 Ruffner Street, Suite 100
 San Diego, Ca 92111
 (619) 594-8800 (PH)
 (619) 594-8800 (FAX)



100% PRELIMINARY
 NOT FOR CONSTRUCTION

DECLARATION OF RESPONSIBLE CHARGE
 I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND I HAVE REVIEWED THE DESIGN OF THE PROJECT AS DETAIL IN SECTION 9003 OF THE STANDARD SPECIFICATIONS AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS AND UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ENGINEER OF WORK
 JOHN P. FEATING R.C.E. 43595

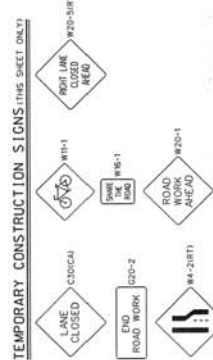
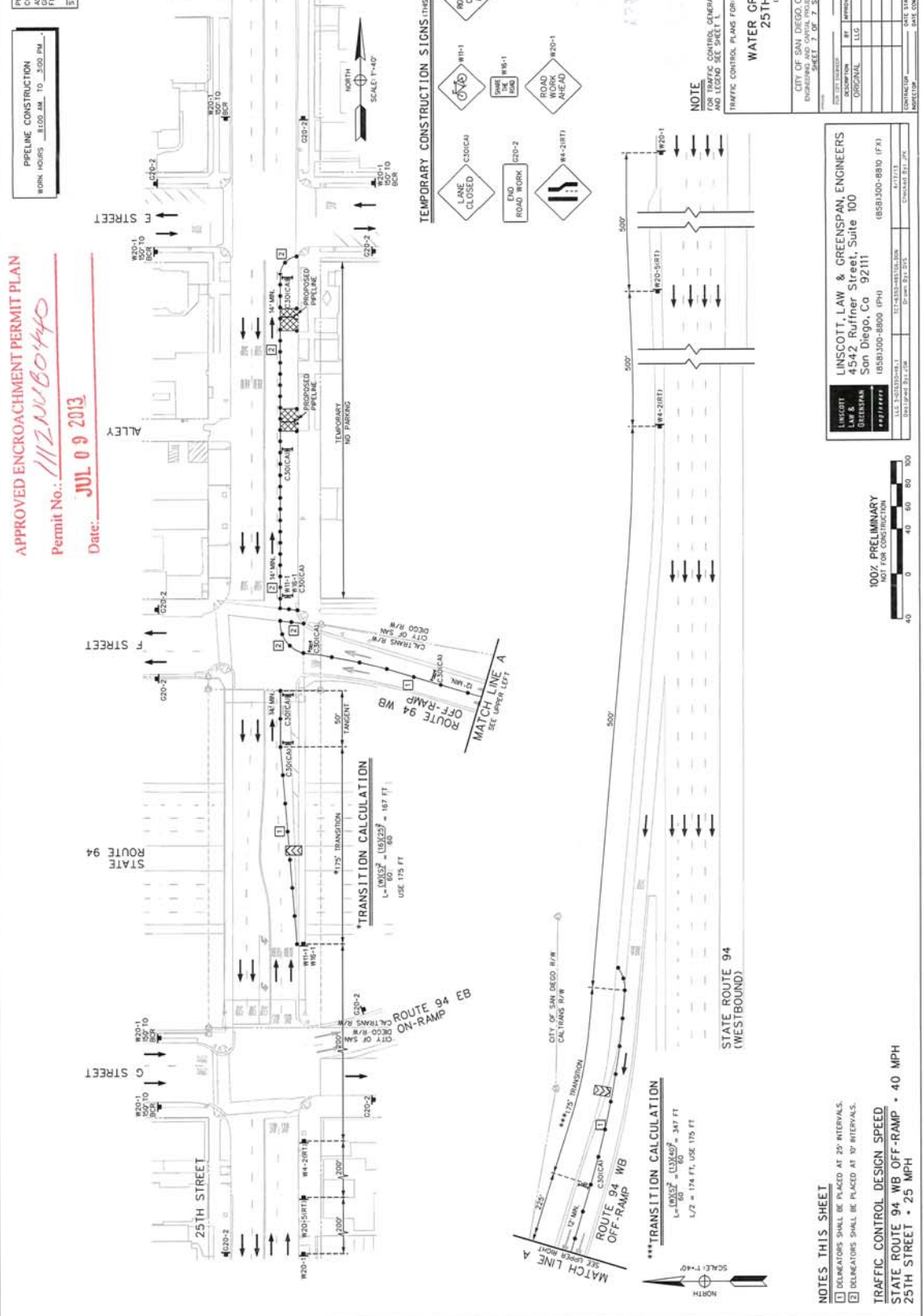


NOTES THIS SHEET
 [1] DELIMITERS SHALL BE PLACED AT 25' INTERVALS.
 [2] DELIMITERS SHALL BE PLACED AT 50' INTERVALS.

TRAFFIC CONTROL DESIGN SPEED
 STATE ROUTE 94 WB OFF-RAMP • 40 MPH
 25TH STREET • 25 MPH

APPROVED ENCROACHMENT PERMIT PLAN
 Permit No.: 112NUB0440
 Date: JUL 09 2013

PERMIT NUMBER: 112NUB0440
 CO. SD. RTE. 94. PM. 112NUB0440
 PROJECT NAME: WATER GROUP JOB 959
 GEOMETRIC AND ABOVE GROUND
 STATE REPRESENTATIVE



NOTE
 ALL CONSTRUCTION GENERAL NOTES
 AND LEGEND SEE SHEET T-7

WATER GROUP JOB 959
 25TH STREET
 (STAGE B)

NO.	DATE	BY	APPROVED DATE	ISSUES	REVISIONS
1					
2					
3					
4					
5					
6					
7					

CITY OF SAN DIEGO CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 7 OF 7 SHEETS

DATE STARTED: 06/10/13
 DATE COMPLETED: 07/09/13
 36555-107-D

LINSCOTT, LAW & GREENSPAN, ENGINEERS
 4542 Rufiner Street, Suite 100
 San Diego, Co 92111
 (619) 500-8800 (PH)
 (619) 500-8810 (FX)
 (619) 500-8811 (FAX)

PROJECT NO.: 112NUB0440
 SHEET NO.: 7 OF 7



NOTES THIS SHEET

- DELEGATORS SHALL BE PLACED AT 25' INTERVALS.
- DELEGATORS SHALL BE PLACED AT 50' INTERVALS.

TRAFFIC CONTROL DESIGN SPEED
 STATE ROUTE 94 WB OFF-RAMP • 40 MPH
 25TH STREET • 25 MPH

City of San Diego

CITY CONTACT: Damian Singleton, Contract Specialist, E-mail: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633



ADDENDUM "A"

FOR

WATER GROUP JOB 959

BID NO.:	<u>K-14-5761-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-11138</u>
CLIENT DEPARTMENT:	<u>2013</u>
COUNCIL DISTRICT:	<u>3 / 8</u>
PROJECT TYPE:	<u>KB</u>

BID DUE DATE:

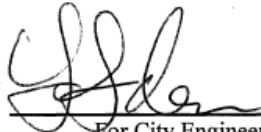
2:00 PM

AUGUST 29, 2013

**PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, SUITE 1400, 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 Engineer:



For City Engineer

8/19/13
Date

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.

B. VOLUME 1

1. To NOTICE INVITING BIDS, item 7, "CONSTRUCTION COST", page 8, **DELETE** in its entirety and **SUBSTITUTE** with the following:

7. **CONSTRUCTION COST:** The City's estimated construction cost for this contract is **\$1,780,000.00**.

C. VOLUME 2

1. To the BIDDING DOCUMENTS, PROPOSAL (BID), pages 11 through 17, **DELETE** in their entirety and **SUBSTITUTE** with pages 4 of 9 through 9 of 9 of this Addendum.

Tony Heinrichs, Director
Public Works Department

Dated: *August 19, 2013*
San Diego, California

TH/nb/ca/lji

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Water Group Job 959**, 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	EA	541214	3-3.2.2.1	Certified Payroll	\$	\$
3	1	AL	237310	7-5.3	CalTrans Encroachment Permit - Type I	 	\$5,000.00
4	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions	 	\$
5	1	LS	237310	7-10.2.6	Traffic Control	 	\$
6	1	AL	237310	7-10.2.6	Portable Changeable Message Signs (PCMS) - Type I	 	\$5,000.00
7	1	EA	237110	9-3.1	Drainage Structure Gate	\$	\$
8	1	LS	237110	9-3.4.1	Mobilization	 	\$
9	1	AL		9-3.5	Field Orders - Type II	 	\$43,000.00
10	60	CY	237310	300-1.4	Additional Pavement Removal & Disposal	\$	\$
11	2	EA	237310	301-1.7	Adjusting Existing Gate Valve Cover to Grade	\$	\$
12	8	EA	237310	301-1.7	Adjusting Existing Manhole Frame & Cover to Grade	\$	\$
13	4,702	LF	237310	302-1.12	Cold Milling Asphalt Concrete Pavement	\$	\$
14	135,940	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Striping (RPMS)	\$	\$
15	690	TN	237310	302-5.1.2	Asphalt Pavement Repair	\$	\$
16	1,400	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
17	1,330	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	\$	\$
18	10,385	SY	237310	302-7.4	Pavement Fabric	\$	\$
19	97	LB	237310	302-14.5	Crack Seal	\$	\$
20	1	EA	237310	303-5.9	Remove Existing Curb Ramp and Replace with Standard Sidewalk, Curb and Gutter	\$	\$
21	265	LF	237310	303-5.9	Additional Curb and Gutter	\$	\$
22	1,060	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$	\$
23	17	EA	237310	303-5.10.2	Curb Ramp Type A w/Stainless Steel Detectable Warning Tiles	\$	\$
24	2	EA	237310	303-5.10.2	Curb Ramp Type B w/Stainless Steel Detectable Warning Tiles	\$	\$
25	2	EA	237310	303-5.10.2	Curb Ramp Type D w/Stainless Steel Detectable Warning Tiles	\$	\$
26	2	EA	237310	303-5.10.2	Curb Ramp Type D Modified w/Stainless Steel Detectable Warning Tiles	\$	\$
27	23	EA	237310	303-5.10.2	Curb Ramp Type A w/Detectable Warning Tiles	\$	\$
28	3	EA	237310	303-5.10.2	Curb Ramp Case C w/Detectable Warning Tiles	\$	\$
29	4	EA	237310	303-5.10.2	Curb Ramp Type D w/Detectable Warning Tiles	\$	\$
30	1	LS	237110	306-1.1.6	Trench Shoring	\$	\$
31	23	CY	237110	306-1.2.1.1	Additional Bedding	\$	\$
32	2	EA	237110	306-1.2.15	16-Inch Force Balanced Flexible Expansion Joint	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
33	250	TON	237310	306-1.5.1	Temporary Resurfacing	\$	\$
34	110	TON	237110	306-1.6	Imported Backfill	\$	\$
35	350	LF	237110	306-1.6	16-Inch Ductile Iron, Class 350 Water Main with Mechanically-Locking Push-On Restrained Joints (18-Foot Lengths)	\$	\$
36	3,495	LF	237110	306-1.6	16-Inch Water Main, Class 235	\$	\$
37	1,725	LF	237110	306-1.6	16-Inch Water Main, Class 305	\$	\$
38	18	EA	237110	306-1.6	Thrust Block	\$	\$
39	7	EA	237110	306-1.6	6-Inch Fire Hydrant Assembly & Marker-2 Port	\$	\$
40	29	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	\$	\$
41	5	EA	237110	306-1.6	12-Inch Gate Valve	\$	\$
42	12	EA	237110	306-1.6	8-Inch Gate Valve	\$	\$
43	33	EA	237110	306-1.6	Cradle Pipe Support for 16-Inch Ductile Iron Water Main	\$	\$
44	2	EA	237110	306-1.6	Soffit Drain Openings	\$	\$
45	2	EA	237110	306-1.11	Concrete Vault for Flexible Expansion Joint	\$	\$
46	5	EA	237110	306-5.3	Remove and Cap Abandoned Water Meter Box	\$	\$
47	64	EA	237110	306-14.1	1-Inch Water Service	\$	\$
48	7	EA	237110	306-14.1	2-Inch Copper Water Service	\$	\$
49	2	EA	237110	306-14.1	1-Inch Water Service Transfer	\$	\$
50	1	EA	237110	306-18	4-Inch Blowoff Valve Assembly	\$	\$
51	4	EA	237110	306-19	2-Inch Air & Vacuum Valve, Class 235	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
52	1	EA	238210	307-2	Pedestrian Barricade	\$	\$	
53	11,000	LF	237110	600-1.2.1.3	High-lining Removed by the Contractor	\$	\$	
54	1	LS	237110	600-1.3.1.5	Contractor Furnished Materials for City Forces Connection and Cut-in Work for Mains 16-inch and Larger	X	\$	
55	850	SF	237110	600-1.3.1.5	Pavement Restoration for City Forces Final Connection	\$	\$	
56	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	X	\$	
57	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	X	\$	
ESTIMATED TOTAL BASE BID:							\$	\$
ALTERNATE 'A'								
1	-11,000	LF	237110	600-1.2.1.3	High-Lining Removed by the Contractor (Base Bid Item 53)	\$	\$	
2	1	LS	237110	600-1.2.2.10	High-Lining by the Contractor	X	\$	
ESTIMATED TOTAL ALTERNATE 'A':							\$	\$
ALTERNATE 'B'								
1	-850	SF	237110	600-1.3.1.5	Pavement Restoration for City Forces Final Connection (Base Bid Item 55)	\$	\$	
2	2	EA	237110	600-1.3.2.10	8-Inch through 16-Inch Connections to the Existing System by the Contractor	\$	\$	
3	14	EA	237110	600-1.4.9	Cut and Plug of the Existing System by the Contractor	\$	\$	
4	-1	LS	237110	600-1.3.1.5	Contractor Furnished Materials for City Forces Connection and Cut-in Work for Mains 16-inch and Larger (Base Bid Item 54)	X	\$	
ESTIMATED TOTAL ALTERNATE 'B':							\$	\$
ESTIMATED TOTAL BASE BID PLUS ALTERNATE 'A' AND 'B':							\$	\$

BIDDING DOCUMENTS

TOTAL BID PRICE FOR BID (Items 1 through 57 PLUS ALTERNATE 'A' items 1 through 2 and ALTERNATE 'B' items 1 through 4 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: _____

BIDDING DOCUMENTS

NOTES:

- A. The City shall determine the low Bid based on the Base Bid plus the following Alternates: 'A' and 'B'.
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid alone or if applicable, for the Base Bid plus any combination of alternates selected in the City's sole discretion.
- C. 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.
- D. Failure to initial all corrections made in the bidding documents shall cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- E. 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.
- F. 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.
- G. 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.
- H. 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.
- I. 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.

City of San Diego

CONTRACTOR'S NAME: TC CONSTRUCTION CO. INC
ADDRESS: 10540 PROSPECT AVE, SANTEE CA, 92071
TELEPHONE NO.: 619-448-4560 FAX NO.: 619-448-3341
CITY CONTACT: Damian Singleton, Contract Specialist, E-mail: Dsingleton@sandiego.gov
Phone No. (619) 533-3482, Fax No. (619) 533-3633
LNasrawi/AR/LJI

CONTRACT DOCUMENTS



FOR

WATER GROUP JOB 959

VOLUME 2 OF 2

BID NO.:	<u>K-14-5761-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-11138</u>
CLIENT DEPARTMENT:	<u>2013</u>
COUNCIL DISTRICT:	<u>3 / 8</u>
PROJECT TYPE:	<u>KB</u>

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.

**THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY
REFER TO VOLUME 1 COVER PAGE FOR TIME, DATE, AND LOCATION**

TABLE OF CONTENTS

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.....	7
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 United States Code 112 and Public Contract Code 7106.....	8
4. Contractors Certification of Pending Actions.....	9
5. Equal Benefits Ordinance Certification of Compliance.....	10
6. Bid.....	11
7. Form AA35 - List of Subcontractors	18
8. Form AA40 - Named Equipment/Material Supplier List	19
9. Form AA45 - Subcontractors Additive/Deductive Alternate.....	20

BIDDING DOCUMENTS

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: N/A

- (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. _____

BIDDING DOCUMENTS

IF A PARTNERSHIP, SIGN HERE: N/A

(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) _____

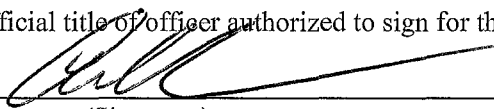
(5) City and State _____ Zip Code _____

(6) Telephone No. _____ Facsimile No. _____

IF A CORPORATION, SIGN HERE:

(1) Name under which business is conducted TC CONSTRUCTION CO. INC

(2) Signature, with official title of officer authorized to sign for the corporation:


(Signature)

AUSTIN CAMERON
(Printed Name)

SECRETARY
(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of CALIFORNIA

(4) Place of Business (Street & Number) 10540 PROSPECT AVE.

(5) City and State SANTEE, CA Zip Code 92071

(6) Telephone No. 619-448-4560 Facsimile No. 619-448-3341

BIDDING DOCUMENTS

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 A, C.21

LICENSE NO. 402459 EXPIRES 4-30-15

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.

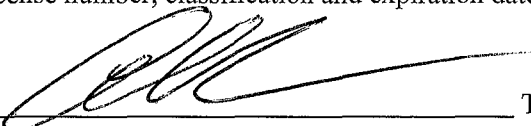
TAX IDENTIFICATION NUMBER (TIN): [REDACTED]

E-Mail Address: acameron@tcincsd.com

BIDDING DOCUMENTS

THIS PROPOSAL MUST BE NOTARIZED BELOW:

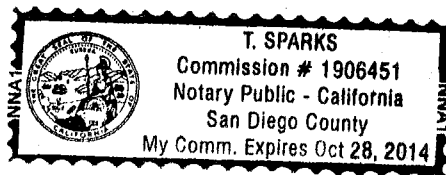
I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature  Title SECRETARY
AUSTIN CAMERON

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 27 DAY OF Aug. 13.

Notary Public in and for the County of SANDIEGO, State of CA

T. SPARKS
(NOTARIAL SEAL)



BIDDING DOCUMENTS

BID BOND

KNOW ALL MEN BY THESE PRESENTS,

That TC Construction Company, Inc. as Principal, and Liberty Mutual 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


Water Group Job 959; Bid No. K-14-5761-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 13th day of August, 2013

TC Construction Company, Inc. (SEAL)
(Principal)

Liberty Mutual Insurance Company (SEAL)
(Surety)

By: 
(Signature)

By: 
(Signature) Tara Bacon, Attorney-in-Fact

AUSTIN CAMERON, SEC.

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California

County of San Diego }

On August 16, 2013 before me, Sandra Weeks, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Austin Cameron
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: Sandra Weeks
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: _____ Signer's Name: _____

Corporate Officer — Title(s): _____ Corporate Officer — Title(s): _____

Individual Individual

Partner — Limited General Partner — Limited General

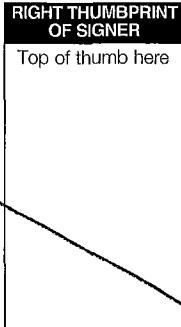
Attorney in Fact Attorney in Fact

Trustee Trustee

Guardian or Conservator Guardian or Conservator

Other: _____ Other: _____

Signer Is Representing: _____ Signer Is Representing: _____



ACKNOWLEDGMENT

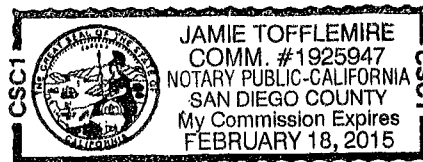
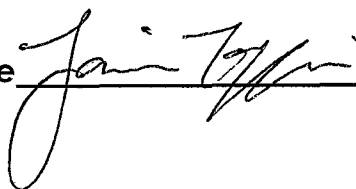
State of California
County of San Diego

On August 13, 2013 before me, Jamie Tofflemire, Notary Public, personally appeared Tara Bacon, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person 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



(Seal)

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

5441625

Certificate No. _____

American Fire and Casualty Company
The Ohio Casualty Insurance Company
West American Insurance Company

Liberty Mutual Insurance Company
Peerless Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of Ohio, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, that Peerless Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, **BRADLEY R. ORR; DALE G. HARSHAW; GEOFFREY SHELTON; KYLE KING; TARA BACON**

all of the city of SAN DIEGO, state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 21st day of June, 2012.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
Peerless Insurance Company
West American Insurance Company

By: *Gregory W. Davenport*
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss
COUNTY OF KING

On this 21st day of June, 2012, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, Peerless Insurance Company and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: *KD Riley*
KD Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, West American Insurance Company and Peerless Insurance Company, which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS - Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts - SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorney-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, West American Insurance Company and Peerless Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 13th day of August, 2013



By: *David M. Carey*
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

BIDDING DOCUMENTS

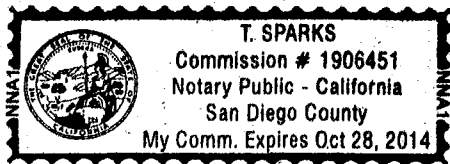
NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California)
County of SAN DIEGO) ss.

AUSTIN CAMERON, being first duly sworn, deposes and says that he or she is SECRETARY 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: [Signature] AUSTIN CAMERON
Title: SECRETARY

Subscribed and sworn to before me this 27 day of Aug, 2013
T. Sparks
Notary Public



(SEAL)

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.

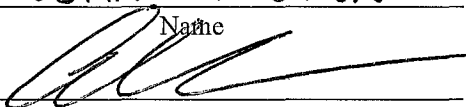
- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.

- 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: TC CONSTRUCTION CO. INC

Certified By AUSTIN CAMERON Title SECRETARY


 Name _____
 Signature _____ Date 8-29-13

USE ADDITIONAL FORMS AS NECESSARY

BIDDING DOCUMENTS

**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: TC CONSTRUCTION CO. INC	Contact Name: AUSTIN CAMERON
Company Address: 10540 PROSPECT AVE.	Contact Phone: 619-448-4560 x117
SAN DIEGO, CA, 92071	Contact Email: acameron@tcincsd.com

CONTRACT INFORMATION

Contract Title: WATER GROUP 959	Start Date: TBD
Contract Number (if no number, state location): K-14-5761-DBB-3	End Date: TBD

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.

AUSTIN CAMERON SECRETARY

8-29-13

Name/Title of Signatory

Signature

Date

FOR OFFICIAL CITY USE ONLY

Receipt Date: _____ EBO Analyst: _____ Approved Not Approved – Reason: _____

rev 02/15/2011

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Water Group Job 959**, 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)	 	\$15,500.-
2	1	EA	541214	3-3.2.2.1	Certified Payroll	\$ 50.-	\$ 50.-
3	1	AL	237310	7-5.3	CalTrans Encroachment Permit - Type I	 	\$5,000.00
4	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions	 	\$ 4,500.-
5	1	LS	237310	7-10.2.6	Traffic Control	 	\$75,000.-
6	1	AL	237310	7-10.2.6	Portable Changeable Message Signs (PCMS) - Type I	 	\$5,000.00
7	1	EA	237110	9-3.1	Drainage Structure Grate	\$ 900.-	\$ 900.-
8	1	LS	237110	9-3.4.1	Mobilization	 	\$ 63,600.- ^(AC) 53,000.-
9	1	AL		9-3.5	Field Orders - Type II	 	\$43,000.00
10	60	CY	237310	300-1.4	Additional Pavement Removal & Disposal	\$ 150.-	\$ 9,000.-
11	2	EA	237310	301-1.7	Adjusting Existing Gate Valve Cover to Grade	\$ 250.-	\$ 500.-
12	8	EA	237310	301-1.7	Adjusting Existing Manhole Frame & Cover to Grade	\$ 300.-	\$ 2,400.-
13	4,702	LF	237310	302-1.12	Cold Milling Asphalt Concrete Pavement	\$ 1.80	\$ 8,463.60
14	135,940	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Striping (RPMS)	\$.30	\$ 40,782.-
15	690	TN	237310	302-5.1.2	Asphalt Pavement Repair	\$ 121.-	\$ 83,490.-
16	1,400	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$ 16.-	\$ 22,400.-

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
17	1,330	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	\$ 112.-	\$ 148,960.-
18	10,385	SY	237310	302-7.4	Pavement Fabric	\$ 3.-	\$ 31,155.-
19	97	LB	237310	302-14.5	Crack Seal	\$ 50.-	\$ 4,850.-
20	1	EA	237310	303-5.9	Remove Existing Curb Ramp and Replace with Standard Sidewalk, Curb and Gutter	\$ 1,600.-	\$ 1,600.-
21	265	LF	237310	303-5.9	Additional Curb and Gutter	\$ 31.-	\$ 8,215.-
22	1,060	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$ 6.-	\$ 6,360.-
23	17	EA	237310	303-5.10.2	Curb Ramp Type A w/Stainless Steel Detectable Warning Tiles	\$ 2,100.-	\$ 35,700.-
24	2	EA	237310	303-5.10.2	Curb Ramp Type B w/Stainless Steel Detectable Warning Tiles	\$ 1,900.-	\$ 3,800.-
25	2	EA	237310	303-5.10.2	Curb Ramp Type D w/Stainless Steel Detectable Warning Tiles	\$ 1,900.-	\$ 3,800.-
26	2	EA	237310	303-5.10.2	Curb Ramp Type D Modified w/Stainless Steel Detectable Warning Tiles	\$ 2,100.-	\$ 4,200.-
27	23	EA	237310	303-5.10.2	Curb Ramp Type A w/Detectable Warning Tiles	\$ 1,900.-	\$ 43,700.-
28	3	EA	237310	303-5.10.2	Curb Ramp Case C w/Detectable Warning Tiles	\$ 1,900.-	\$ 5,700.-
29	4	EA	237310	303-5.10.2	Curb Ramp Type D w/Detectable Warning Tiles	\$ 1,900.-	\$ 7,600.-
30	1	LS	237110	306-1.1.6	Trench Shoring	 	\$ 7,500.-
31	23	CY	237110	306-1.2.1.1	Additional Bedding	\$ 30.-	\$ 690.-
32	2	EA	237110	306-1.2.15	16-Inch Force Balanced Flexible Expansion Joint	\$ 21,000.-	\$ 42,000.-

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
33	250	TON	237310	306-1.5.1	Temporary Resurfacing	\$ 98.-	\$ 24,500.-
34	110	TON	237110	306-1.6	Imported Backfill	\$ 60.-	\$ 6,600.-
35	350	LF	237110	306-1.6	16-Inch Ductile Iron, Class 350 Water Main with Mechanically-Locking Push-On Restrained Joints (18-Foot Lengths)	\$ 267.-	\$ 93,450.-
36	3,495	LF	237110	306-1.6	16-Inch Water Main, Class 235	\$ 98.00	\$ 342,510.-
37	1,725	LF	237110	306-1.6	16-Inch Water Main, Class 305	\$ 114.-	\$ 196,650.-
38	18	EA	237110	306-1.6	Thrust Block	\$ 580.-	\$ 10,440.-
39	7	EA	237110	306-1.6	6-Inch Fire Hydrant Assembly & Marker-2 Port	\$ 6,100.-	\$ 42,700.-
40	29	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	\$ 3,400.-	\$ 98,600.-
41	5	EA	237110	306-1.6	12-Inch Gate Valve	\$ 2,900.-	\$ 14,500.-
42	12	EA	237110	306-1.6	8-Inch Gate Valve	\$ 1,500.-	\$ 18,000.-
43	33	EA	237110	306-1.6	Cradle Pipe Support for 16-Inch Ductile Iron Water Main	\$ 870.-	\$ 28,710.-
44	2	EA	237110	306-1.6	Soffit Drain Openings	\$ 5,000.-	\$ 10,000.-
45	2	EA	237110	306-1.11	Concrete Vault for Flexible Expansion Joint	\$ 20,000.-	\$ 40,000.-
46	5	EA	237110	306-5.3	Remove and Cap Abandoned Water Meter Box	\$ 236.-	\$ 1,180.-
47	64	EA	237110	306-14.1	1-Inch Water Service	\$ 2,150.-	\$ 137,600.-
48	7	EA	237110	306-14.1	2-Inch Copper Water Service	\$ 4,400.-	\$ 30,800.-
49	2	EA	237110	306-14.1	1-Inch Water Service Transfer	\$ 1,750.-	\$ 3,500.-
50	1	EA	237110	306-18	4-Inch Blowoff Valve Assembly	\$ 7,500.-	\$ 7,500.-
51	4	EA	237110	306-19	2-Inch Air & Vacuum Valve, Class 235	\$ 5,100.-	\$ 20,400.-

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
52	1	EA	238210	307-2	Pedestrian Barricade	\$ 500.-	\$ 500.-	
53	11,000	LF	237110	600-1.2.1.3	High-lining Removed by the Contractor	\$ 8.-	\$ 88,000.-	
54	1	LS	237110	600-1.3.1.5	Contractor Furnished Materials for City Forces Connection and Cut-in Work for Mains 16-inch and Larger	 	\$ 60,000.-	
55	850	SF	237110	600-1.3.1.5	Pavement Restoration for City Forces Final Connection	\$ 18.-	\$ 15,300.-	
56	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	 	\$ 3,800.-	
57	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	 	\$ 4,300.-	
ESTIMATED TOTAL BASE BID:								\$ 2,029,355.60
ALTERNATE 'A'								
1	-11,000	LF	237110	600-1.2.1.3	High-Lining Removed by the Contractor (Base Bid Item 53)	\$ 8.-	\$ 88,000.-	
2	1	LS	237110	600-1.2.2.10	High-Lining by the Contractor	 	\$ 68,000.-	
ESTIMATED TOTAL ALTERNATE 'A':								\$ 20,000.-
ALTERNATE 'B'								
1	-850	SF	237110	600-1.3.1.5	Pavement Restoration for City Forces Final Connection (Base Bid Item 55)	\$ 18.-	\$ 15,300.-	
2	2	EA	237110	600-1.3.2.10	8-Inch through 16-Inch Connections to the Existing System by the Contractor	\$ 4,500.-	\$ 9,000.-	
3	14	EA	237110	600-1.4.9	Cut and Plug of the Existing System by the Contractor	\$ 850.-	\$ 11,900.-	
4	-1	LS	237110	600-1.3.1.5	Contractor Furnished Materials for City Forces Connection and Cut-in Work for Mains 16-inch and Larger (Base Bid Item 54)	 	\$ 60,000.-	
ESTIMATED TOTAL ALTERNATE 'B':								\$ 54,400.-
ESTIMATED TOTAL BASE BID PLUS ALTERNATE 'A' AND 'B':								\$ 1,954,955.60

BIDDING DOCUMENTS

TOTAL BID PRICE FOR BID (Items 1 through 57 PLUS ALTERNATE 'A' items 1 through 2 and ALTERNATE 'B' items 1 through 4 inclusive) amount written in words:

One million nine hundred fifty-four thousand nine hundred fifty-five dollars and sixty 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

The names of all persons interested in the foregoing proposal as principals are as follows:

TERRY CAMERON, PRESIDENT

AUSTIN CAMERON, SEC.-TREAS.

STEVE COKER, VICE PRES.

DEREK FRANKEN, VICE PRES.

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: TC CONSTRUCTION CO. INC.

Title: SECRETARY

Business Address: 10540 PROSPECT AVE., SANTEE, CA. 92071

Place of Business: SAME

Place of Residence: N/A

Signature:  AUSTIN CAMERON

BIDDING DOCUMENTS

NOTES:

- A. The City shall determine the low Bid based on the Base Bid plus the following Alternates: 'A' and 'B'.
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid alone or if applicable, for the Base Bid plus any combination of alternates selected in the City's sole discretion.
- C. 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.
- D. Failure to initial all corrections made in the bidding documents shall cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- E. 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.
- F. 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.
- G. 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.
- H. 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.
- I. 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.

BIDDING DOCUMENTS

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 SDVO SB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVO SB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>McGrath consulting</u> Address: <u>P.O. Box 20205</u> City: <u>El Cajon</u> State: <u>CA</u> Zip: <u>92021</u> Phone: <u>619.250.2025</u>	DESIGNER	WP/CP	\$480	ELBE	CITY	
Name: <u>Crest Equipment INC</u> Address: <u>1101 Scottford Drive</u> City: <u>El Cajon</u> State: <u>CA</u> Zip: <u>92021</u> Phone: <u>619.444.5061</u>	Constructor	Concrete Flatwork	\$112,190	ELBE	CITY	
Name: <u>R.C. Hinman DBA Video Fact Documentation Services</u> Address: <u>4004 Lyons Dr</u> City: <u>La Mesa</u> State: <u>CA</u> Zip: <u>91941</u> Phone: <u>619.442.0080</u>	Constructor	video pre-existing conditions	\$900	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	SDVO SB		

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.

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

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NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>American Asphalt South</u> Address: <u>P.O. BOX 3100310</u> City: <u>Fontana</u> State: <u>CA</u> Zip: <u>92331</u> Phone: <u>909.427.0270</u>	Constructor	Slurry Sealing a. Crack Sealing	\$ 33,885.90			
Name: <u>Continental Western Transportation</u> Address: <u>P.O. BOX 2100310</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92191</u> Phone: <u>619.268.1151</u>	Constructor	Pavement Fabric	\$ 21,704.05			
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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 |

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BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

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Name: <u>Statewide Stripes INC</u> Address: <u>P.O. Box 000710</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92110</u> Phone: <u>619.520.0087</u>	Constructor	Striping	\$11,545.17			
Name: <u>SC SERVICES INC</u> Address: <u>P.O. Box 712994</u> City: <u>Santee</u> State: <u>CA</u> Zip: <u>92071</u> Phone: <u>619.443.3344</u>	constructor	Cold Milling	\$15,582.00	ELBE	city	
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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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

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BIDDING DOCUMENTS

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.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB ^①	WHERE CERTIFIED ^②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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):

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BIDDING DOCUMENTS

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	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSE[ⓐ]	WHERE CERTIFIED[ⓑ]
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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	SDVOSE		

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California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
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BIDDING DOCUMENTS

**SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE
(USE ONLY WHEN ADDITIVE ALTERNATES ARE REQUIRED)**

Bidder shall list all Subcontractors described in the Bidder's *Base Bid* whose percentage of work will increase or decrease if alternates are selected for award. Bidder shall also list additional Subcontractors not described in the Bidder's *Base Bid* who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%.. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVO SB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVO SB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVO SB		

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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

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WATER GROUP JOB 959

CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 4216 OF THE CALIFORNIA 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.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69KV & HIGHER).
- EXCAVATE AROUND WATER METER BOX (I.E., CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING THE MAIN.
- CITY FORCES, WHEN SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS AND PLUGS AND CONNECTIONS.
- EXISTING MAINS SHALL BE KEPT IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SHOWN ON PLANS.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- KEEP STORM DRAIN INLETS REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- 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.
- 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.
- CONTRACTOR TO REQUEST AND COORDINATE SHUTDOWNS AND CUT & PLUG WITH THE WATER OPERATIONS VIA RESIDENT ENGINEER AT LEAST THREE WEEKS IN ADVANCE.
- CONTRACTOR TO USE CLASS 305 PIPE IF THE COVER OF PIPE IS LESS THAN 5 FEET FROM EXISTING PAVEMENT.

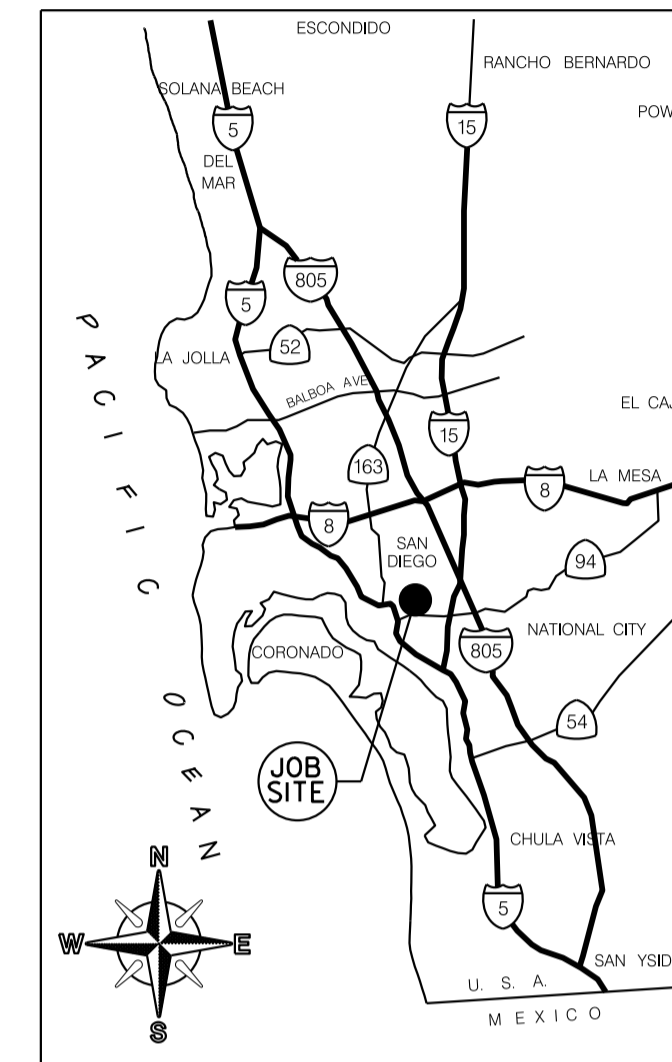
STORM WATER PROTECTION

- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND WPCP.

LIMITS OF WORK

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET	WATER			
2	C-1	B STREET	STA 1+00.00 TO 7+00.00	16		600.00
3	C-2	B STREET	STA 7+00.00 TO 11+92.82	16		492.82
4	C-3	B STREET	STA 13+00.00 TO 19+50.00	16		650.00
5	C-4	B STREET	STA 19+50 TO 25+44.53	16		604.53
6	C-5	27TH STREET	STA 1+00.00 TO 4+78.19	16		378.19
7	C-6	ASH STREET	STA 1+70.00 TO 8+00.00	16		630.00
8	C-7	ASH STREET	STA 8+00.00 TO 14+99.05	16		699.05
9	C-8	25TH STREET	STA 1+00.00 TO 8+59.477	16		759.77
10	C-9	F STREET	STA 1+00.00 TO 7+84.58	16		684.58
11	C-10	SR 94 25TH STREET	STA 1+45.76 TO 4+64.92			
12	C-11	SR 94 25TH STREET	OVERCROSSING PIPE DETAILS			
13	C-12	SR 94 25TH STREET	VAULT AND CASING DETAILS			
14	C-13	SR 94 25TH STREET	MISCELLANEOUS DETAILS			
15	C-14		STREET RESURFACING			
16	C-15		STREET RESURFACING			
17	C-16		CURB RAMP LOCATION			
18	C-17		CURB RAMP LOCATION			
19	C-18		CITY FORCES OR CONTRACTOR			
20	C-19		CITY FORCES OR CONTRACTOR			
21	C-20		CURB RAMP DETAILS			
22	C-21		WATER POLLUTION CONTROL SITE PLANS			
23	C-22		WATER POLLUTION CONTROL SITE PLANS			
24	C-23		THRUST BLOCK TABLE			
T-1 TO T-7	T-1 TO T-7		TRAFFIC CONTROL PLANS			

WORK TO BE DONE
CONSTRUCTION CONSISTS OF THE INSTALLATION OF 5,498 LINEAR FEET OF 16" WATER MAIN SERVICES, FIRE HYDRANT, CURB RAMPS, RESURFACING, TRAFFIC CONTROL AND OTHER APPURTENANCES SHOWN ON THIS PLANS AND SPECIFICATIONS.



VICINITY MAP
NOT TO SCALE

DISCIPLINE CODE

- G GENERAL
- C CIVIL
- T TRAFFIC CONTROL

ABBREVIATIONS

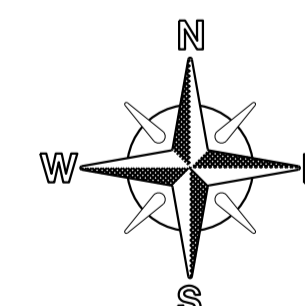
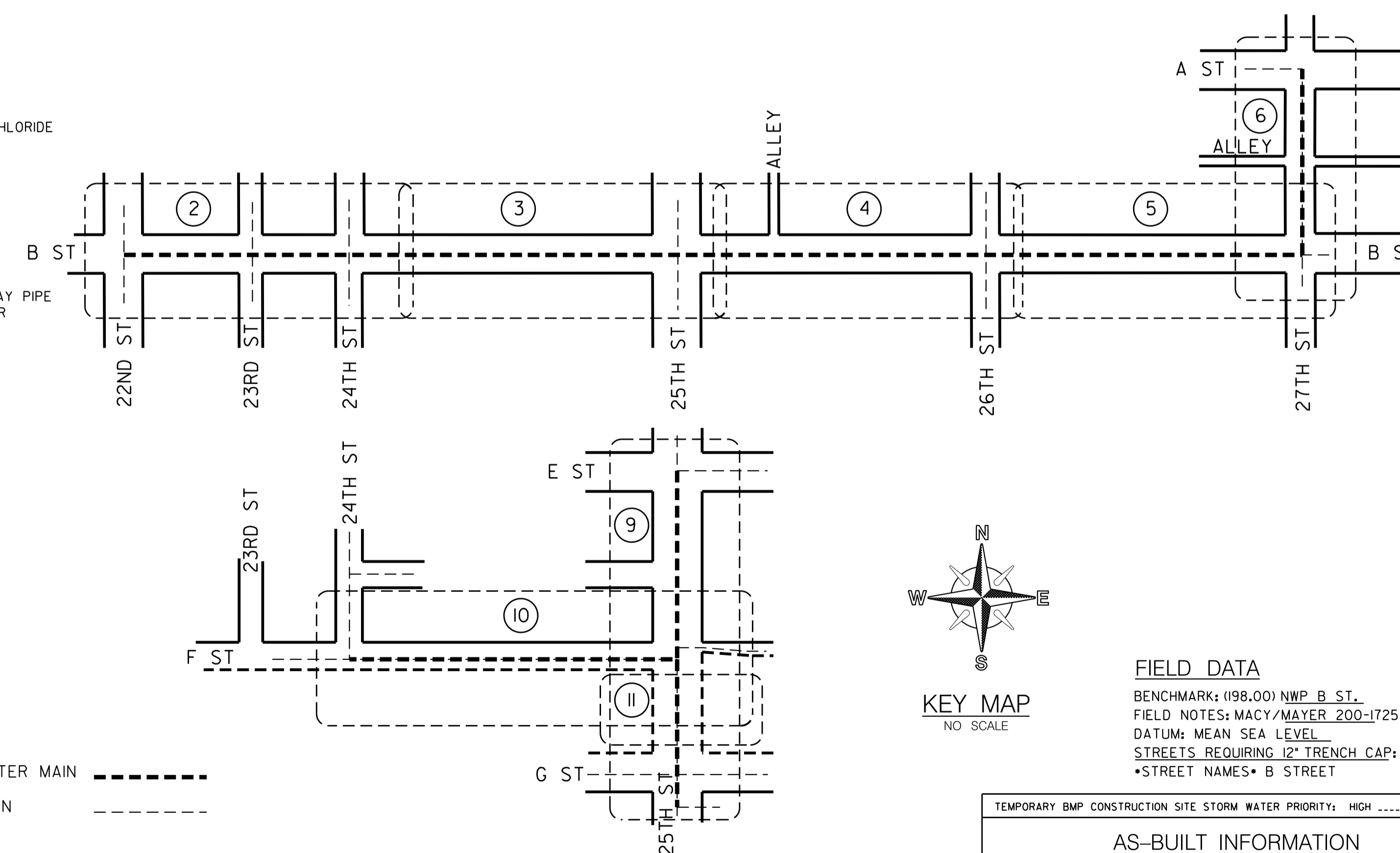
ABAND ABANDON	EL, ELEV ELEVATION	OVHD OVER HEAD
ABAND'D ABANDONED	ELEC ELECTRIC	PVC POLYVINYL CHLORIDE
AC ASBESTOS CEMENT PIPE	EX, EXIST EXISTING	PROP PROPOSED
AHD AHEAD	E/O EAST OF	RED REDUCER
ASSY ASSEMBLY	F FLANGE	RT RIGHT
BK BACK	FH FIRE HYDRANT	S SURVEY LINE
BTWN BETWEEN	FS FIRE SERVICE	SO STUB OUT
CATV CABLE TV	GV GATE VALVE	S/O SOUTH OF
CI CAST IRON PIPE	HDPE HIGH-DENSITY POLYETHYLENE	SWR SEWER
C CENTER LINE	HP HIGH PRESSURE	TEL TELEPHONE
COND CONDUIT	IE INVERT ELEVATION	UNK UNKNOWN
CONT CONTINUED	LT LEFT	VC VITRIFIED CLAY PIPE
CONTR CONTRACTOR	MJ MECHANICAL JOINT	WM WATER METER
DB DIRECT BURIED	MTD MULTIPLE TELEPHONE DUCT	WTR WATER
EB ENCASED BURIED	N/O NORTH OF	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	
CONCRETE PIPE SUPPORT CRADLE	

LEGEND:

PROPOSED WATER MAIN	---
EX. WATER MAIN	---



KEY MAP
NO SCALE

FIELD DATA

BENCHMARK: (198.00) NWP B ST.
FIELD NOTES: MACY/MAYER 200-1725 B1138 8/29/11
DATUM: MEAN SEA LEVEL
STREETS REQUIRING 12" TRENCH CAP:
STREET NAMES B STREET

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH ---- MEDIUM ---- LOW-X.

SPEC. NO. 5761

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
GATE VALVES	-
FIRE HYDRANTS	-
RESILIENT BUTTER FLY VALVE	-
	-
	-



LEGEND

IMPROVEMENTS	STANDARD DRAWINGS	SYMBOL
TRENCH RESURFACING	SDG-107 TYPE A, SDG-108	
CUTTING AND PLUGGING ABANDONED WATER MAIN	WP-03	E-----
SURVEY MONUMENT	M-10	△
WATER MAIN & APPURTENANCES	SDW-110, SDW-148, SDW 151.	⊕
VALVES WITH CAPS AND WELLS	SDW-109, SDW-152, SDW-153, WV-05.	⊕
6" FIRE HYDRANT ASSEMBLY & MARKER 2-PORT UNLESS SPECIFIED AS 3-PORT	SDW-104, SDW-109, SDW-148, SDW-152, SDW-153.	⊕
1" WATER SERVICE UNLESS OTHERWISE SPECIFIED	SDW-107, SDW-134, SDW-135, SDW-136, SDW-138, SDW-148, SDW-149, SDW-150, WS-03.	⊕ P.L.
WATER SERVICE TRANSFER	SDW-100, WS-01, WS-02	⊕ P.L.
BLOW-OFF ASSEMBLY	SDW-106, SDW-143, SDW-144, SDW-149, SDW-146, WB-05.	⊕ B.O.
AIR & VACUUM VALVE	SDW-117, SDW-148, SDW-158, SDW-159, SDW-160.	⊕ A.V.

FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP, HORIZONTAL ALIGNMENT COORDINATE AND TRAFFIC CONTROL SHEETS.

G-1

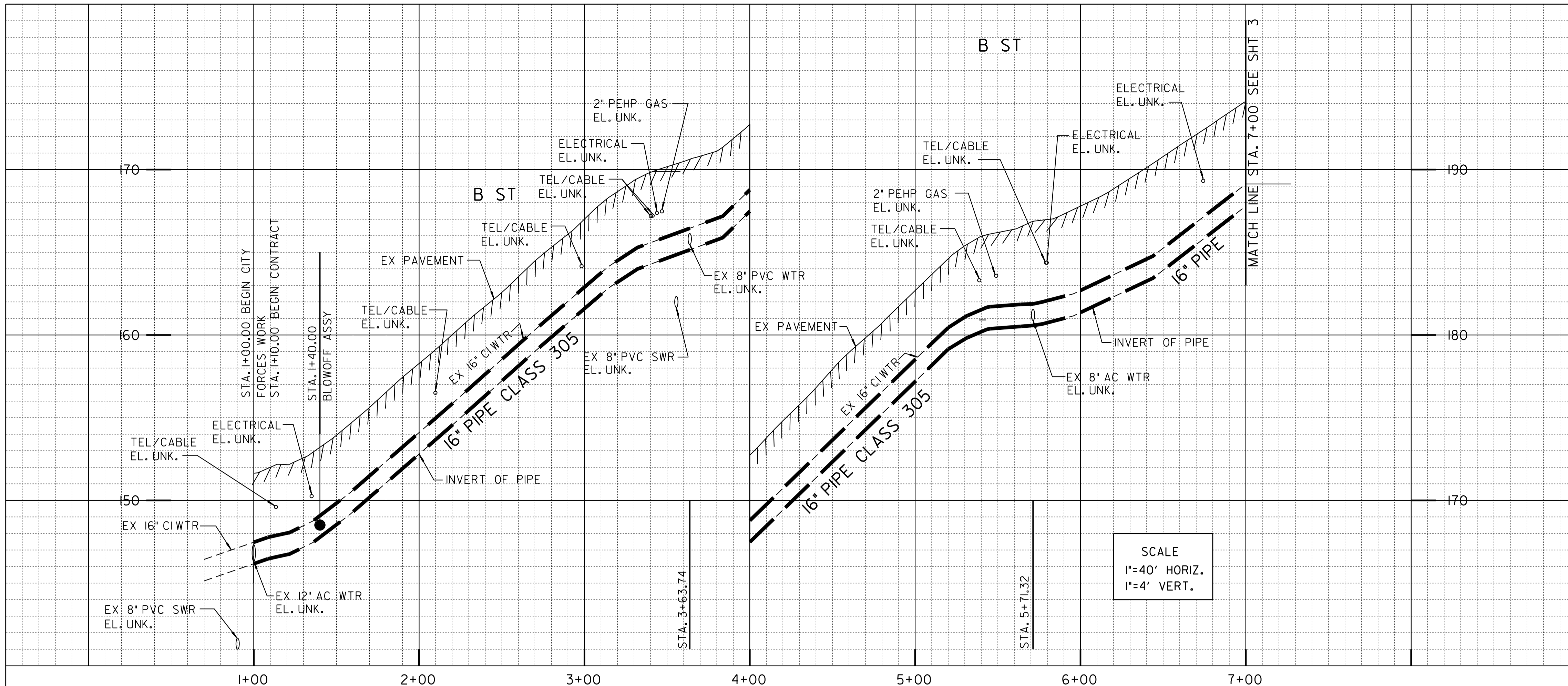
PLANS FOR THE CONSTRUCTION OF WATER GROUP JOB 959 COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 01 OF 31 SHEETS		WATER WBS B1138
APPROVED FOR CITY ENGINEER	DATE 2/11/13	SEWER WBS
DESIGNED BY LAILA NASRAWI PROJECT MANAGER		
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED
DATE		FILMED
200-1725		LOTOSU LENGUYEN PROJECT ENGINEER
1842574-6291151		CCS27 COORDINATE
CONTRACTOR		CCS83 COORDINATE
INSPECTOR		36555-01-D

CITY OF SAN DIEGO
PUBLIC WORKS PROJECT

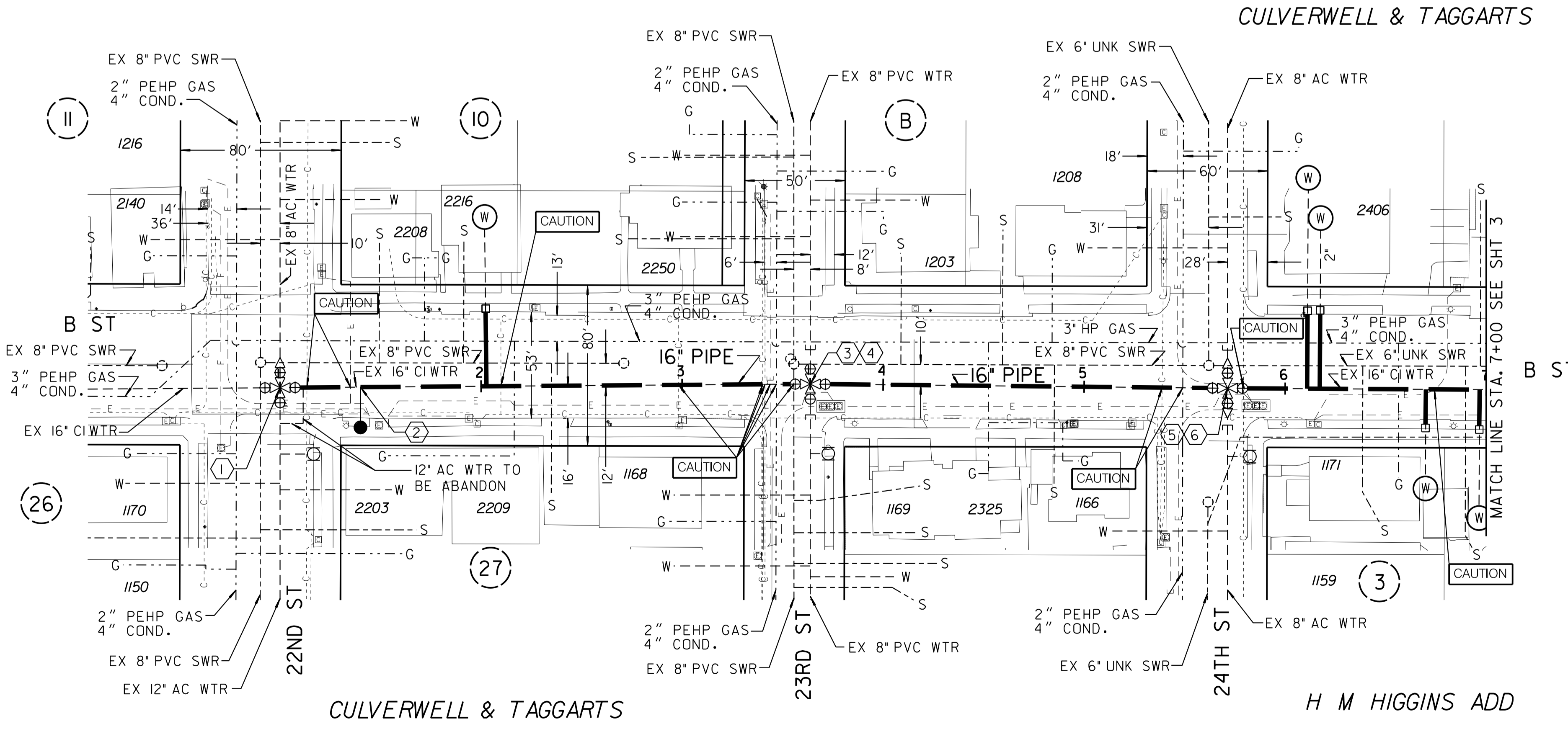


WATER GROUP JOB 959



POINT	STATION	NORTHING (ft)	EASTING (ft)	ELEMENT LENGTH (ft)	WCB (0.33/400'00")
POB	1+00.00	1842146.79	6286692.64	STRAIGHT 40.00	1.56
PI	1+40.00	1842147.08	6286732.64	STRAIGHT 223.74	1.56
PI	3+63.74	1842148.63	6286956.37	STRAIGHT 207.58	1.58
PI	5+71.32	1842146.53	6287163.94	STRAIGHT 128.68	1.58
POE	7+00.00	1842145.80	6287292.62		

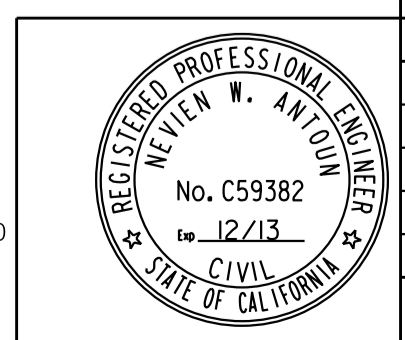
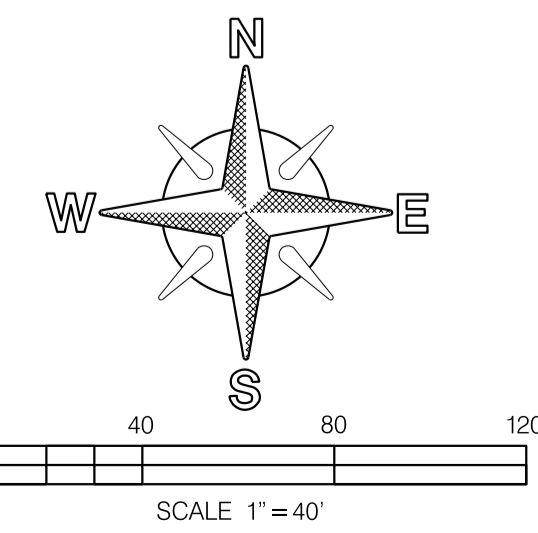
SCALE
1"=40' HORIZ.
1"=4' VERT.



- ① BY CITY FORCES
AHD OF CONTRACTOR
STA 1+00.00
CUT IN:
1- 16" X 12" CROSS (F)
2 - 16" BFV (MJ, F) BK, AHD
2 - 12" GV (F, F) LT, RT
1 - 12" X 8" REDUCER (MJ, F) LT
- ② BY CONTRACTOR
FURNISH AND INSTALL
STA 1+40.00
1- 4" BLOWOFF ASSY
- ③ BY CITY FORCES
AHD OF CONTRACTOR
STA 3+63.74
CUT & PLUG
EX 8" PVC WTR., 15' ± LT, RT
RECONNECT AFTER THE NEW
MAIN HAS BEEN ACCEPTED.
- ④ BY CONTRACTOR
FURNISH AND INSTALL
STA 3+63.74
1- 16" X 8" CROSS (F)
2 - 16" BFV (MJ, F) BK, AHD
2 - 8" GV (MJ, F) LT, RT
- ⑤ BY CITY FORCES
AHD OF CONTRACTOR
STA 5+71.32
CUT & PLUG
EX 8" AC WTR., 15' ± LT
EX 8" AC WTR., 15' ± RT
RECONNECT AFTER THE NEW
MAIN HAS BEEN ACCEPTED.
- ⑥ BY CONTRACTOR
FURNISH AND INSTALL
STA 5+71.32
1- 16" X 12" CROSS (F)
2 - 16" BFV (MJ, F) BK, AHD
2 - 12" GV (F, F) LT, RT
2 - 12" X 8" REDUCERS (MJ, F) LT, RT

REFERENCE:
WATER: 6395-0-L, 6396-0-L
19807-13-D, 29045-16-D
SEWER: 29045-30-D,
STORM DRAIN:
GAS: I289-C3
ELECTRIC: 200-1725
CABLE TV: CS020IDB.DGN,
CS040ICA.DGN, CS040ICB.DGN
TELEPHONE:
IMPROVEMENTS:
100' SCALE/FIELD BOOK:
THOMAS BROS.: I2892C, 3C
HGL: 390

RETIREMENTS:
16" - C1 - 600' - 1945
1" SERVICE - 4 - COPPER - 1945
2" SERVICE - 1 - COPPER - 1945

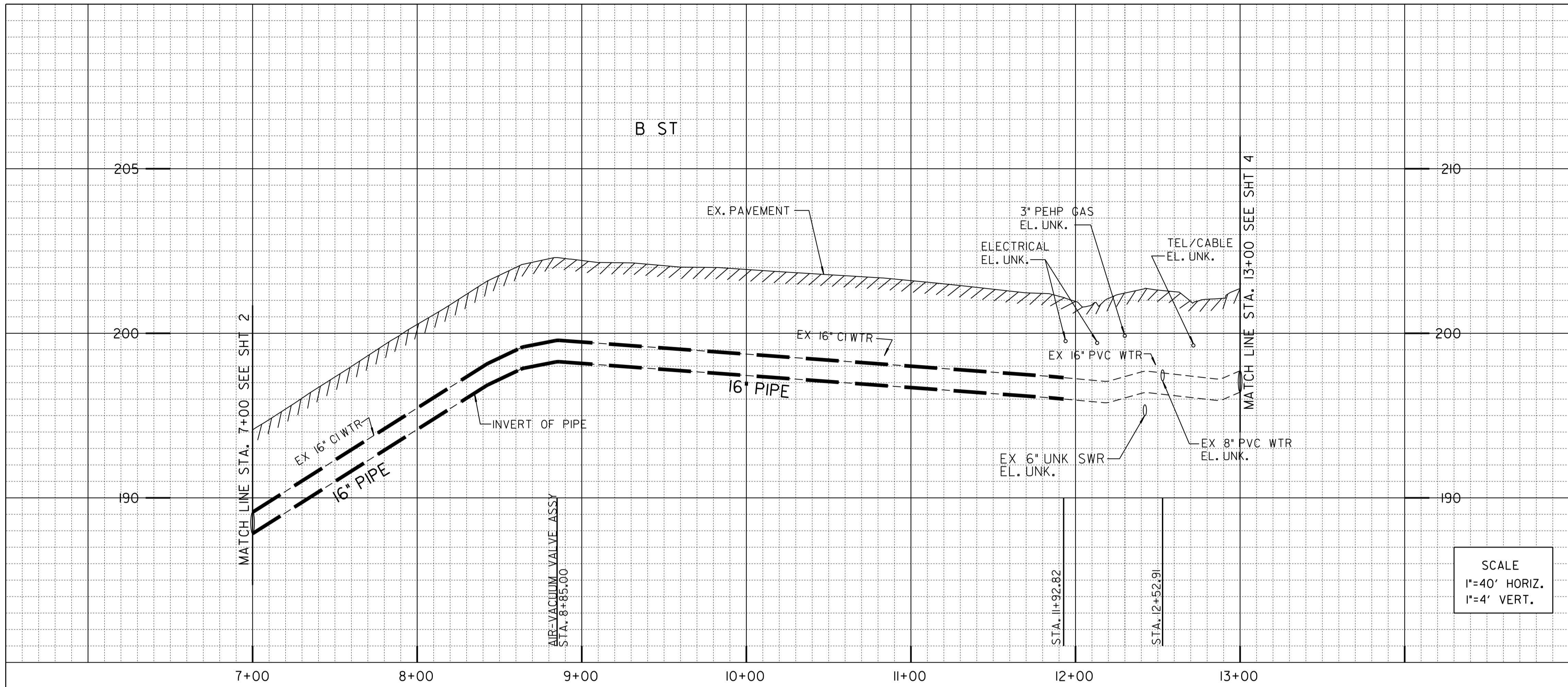


**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959**
STA 1+00.00 TO STA 7+00.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 02 OF 31 SHEETS		WATER WBS B1138 SEWER WBS
FOR CITY ENGINEER <i>Nasrawi</i>	DATE 2/11/13	ASSOCIATE ENGINEER LAILA NASRAWI
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED DATE FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
ORDERED BY LOTOUS LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE
1842574-6291151 CCS83 COORDINATE		36555-02 -D

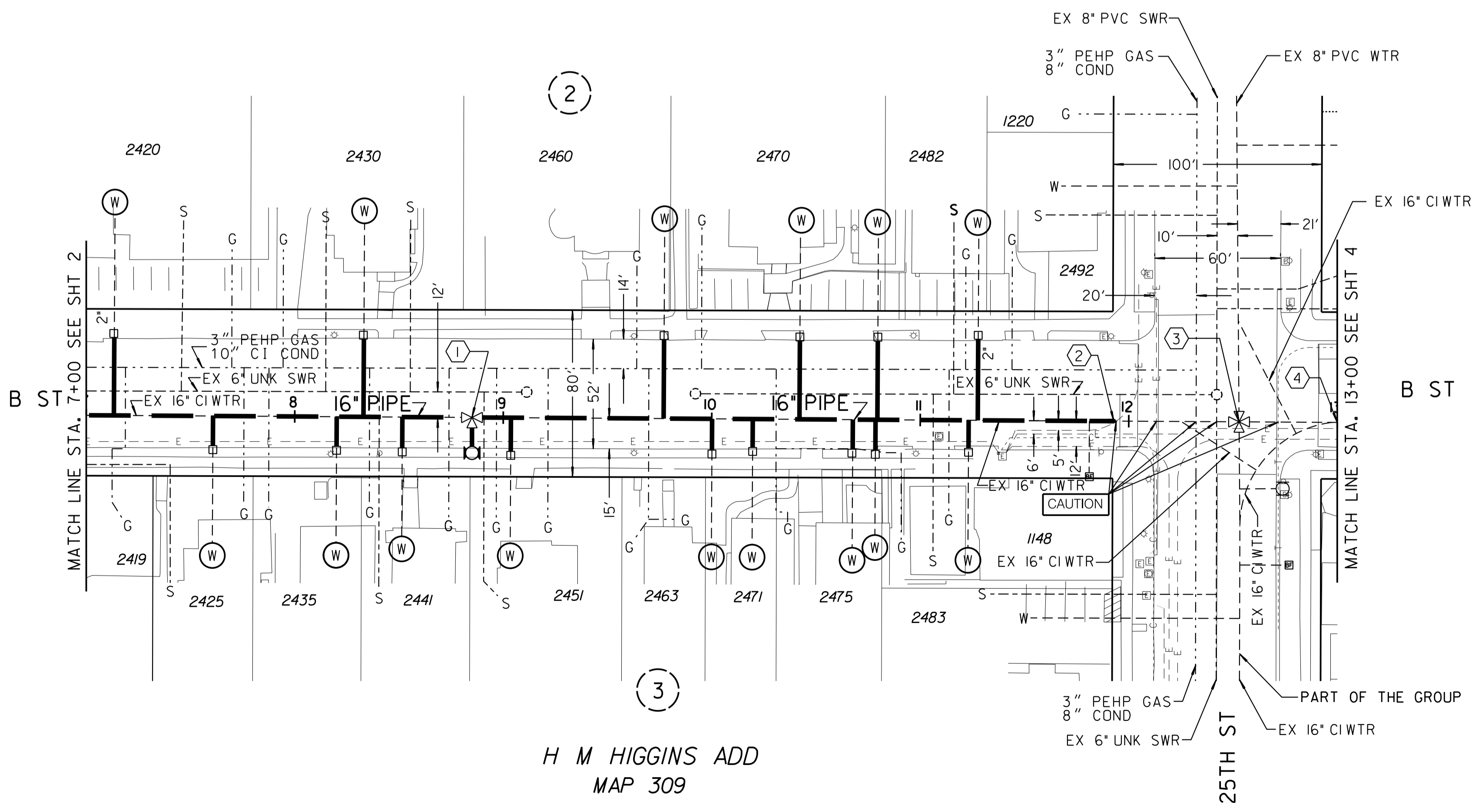
B St

C-1



POINT STATION	NORTHING (ft)	EASTING (ft)	ELEMENT LENGTH (ft)	WCB (0 ³³ / ₄ 00'00')
POB	7+00.00	1842145.80	6287292.62	
PI	8+85.00	1842145.27	6287385.74	STRAIGHT 93.13 1.58
PI	11+92.82	1842143.00	6287785.43	STRAIGHT 256.87 1.58
PI	12+52.91	1842142.66	6287845.52	STRAIGHT 60.09 1.58
POE	13+00.00	1842142.36	6287892.61	STRAIGHT 47.09 1.58

SCALE
1"=40' HORIZ.
1"=4' VERT.

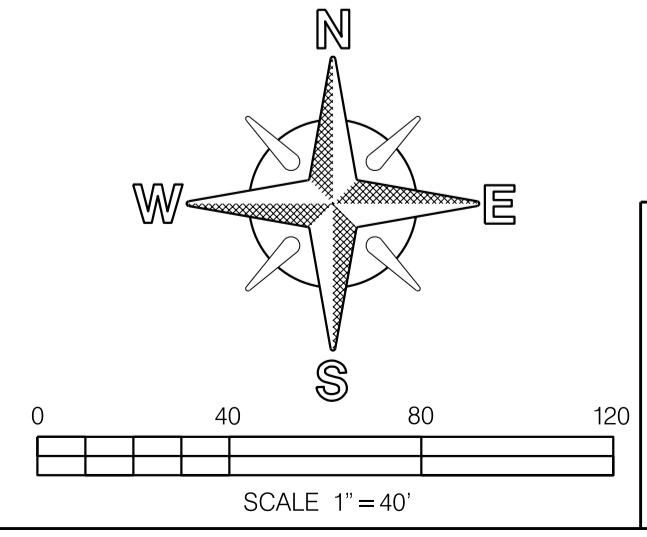


- ① BY CONTRACTOR FURNISH AND INSTALL
STA 8+85.00
1- 16" X 6" TEE (MJ, MJ, F)
1- 6" FH ASSY AND MARKER
- ② BY CITY FORCES AHD OF CONTRACTOR
STA 11+92.82
INSTALL 10' ± 16" PIPE AHD. CONNECT TO EX 16" PVC PIPE.
RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- ③ BY CITY FORCES AHD OF CONTRACTOR
STA 12+52.91
CLOSE EX 16" VALVE LT, RT
REOPEN AFTER NEW MAIN HAS BEEN INSTALLED.
CROSS IS PART OF GJ960

- ④ BY CITY FORCES AHD OF CONTRACTOR
STA 13+00.00
INSTALL 10' ± 16" PIPE BK. CONNECT TO EX 16" PVC PIPE.
RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.

REFERENCE:
WATER: 6395-0-L, 9065-0-D, 26034-5-D
SEWER: 11005-0-B, 29045-32-D
STORM DRAIN:
GAS: 1289-C3, D3
ELECTRIC: 200-1725
CABLE TV: CS0201DB.DGN, CS0401CA.DGN
TELEPHONE:
IMPROVEMENTS:
100' SCALE/FIELD BOOK:
THOMAS BROS.: 12892D, 3D
HGL: 390

RETIREMENTS:
16" - CI - 483' - 1945
1" SERVICE - 13 - COPPER - 1945
2" SERVICE - 2 - COPPER - 1945



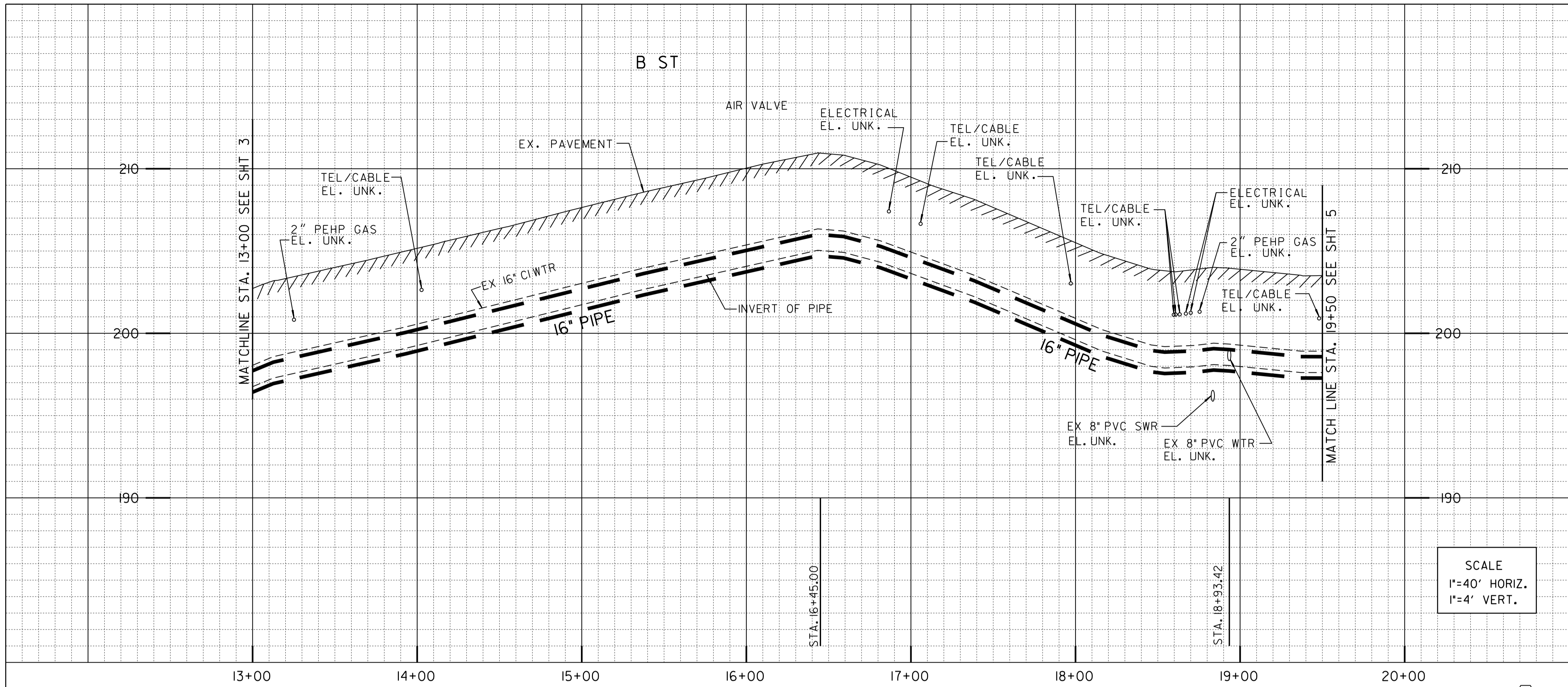
**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959**
STA 7+00.00 TO STA 13+00.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 03 OF 31 SHEETS		WATER WBS: B1138 SEWER WBS: _____
FOR CITY ENGINEER: <i>Nasrawi</i>	DATE: 2/11/13	ENGINEER: LAILA NASRAWI ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: LL/EG	APPROVED: _____ DATE: _____ FILMED: _____
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____
CHIEF ENGINEER: LOTOUS LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE
1842574-6291151 CCS83 COORDINATE		36555-03-D

B ST

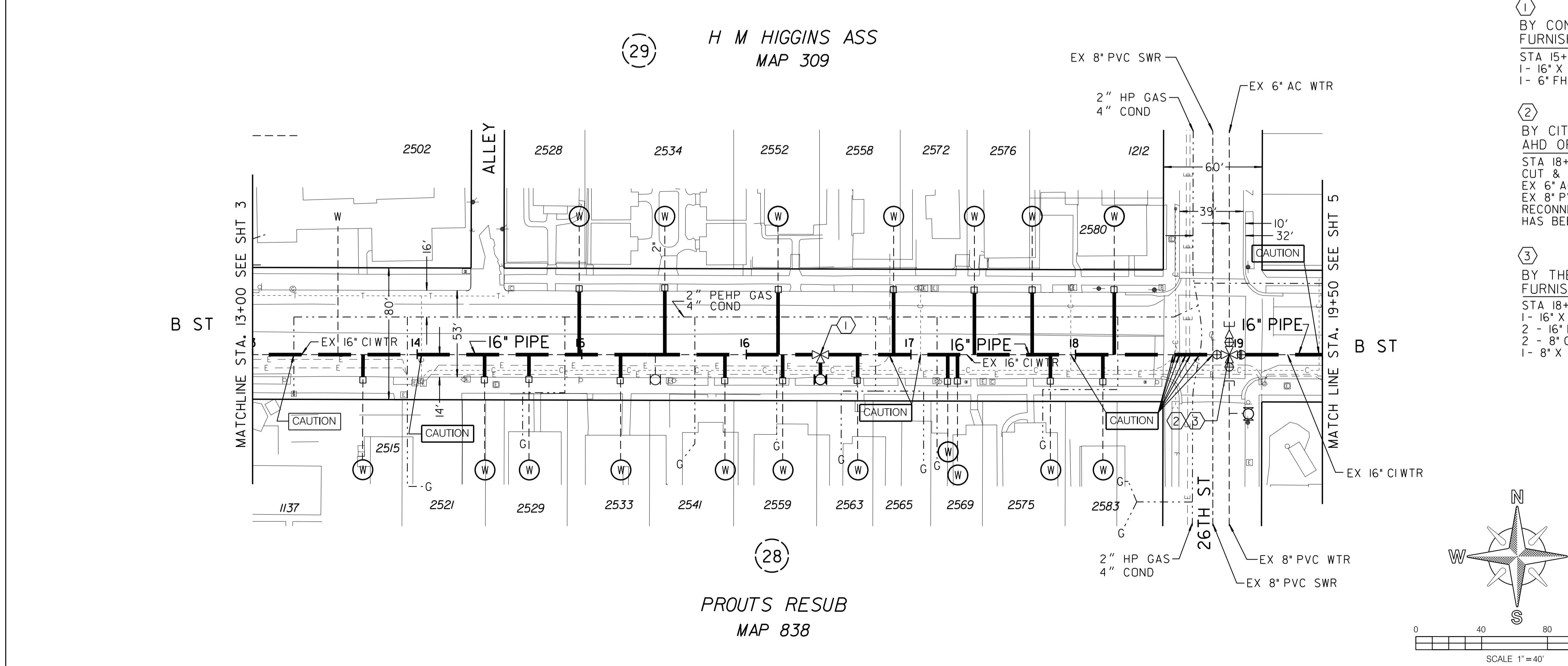
C-2

H M HIGGINS ADD
MAP 309



POINT	STATION	NORTHING (ft)	EASTING (ft)	ELEMENT LENGTH (ft)	WCB (0 ³³ / ₆₄ 00'00")
POB	13+00.00	1842142.36	6287892.61	STRAIGHT 244.67	1.57
PI	15+44.67	1842142.32	6288137.28	STRAIGHT 348.75	1.57
PI	18+93.42	1842142.30	6288486.03	STRAIGHT 56.58	1.57
POE	19+50.00	1842142.30	6288542.61		

SCALE
1"=40' HORIZ.
1"=4' VERT.



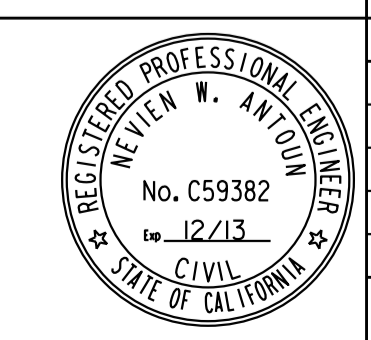
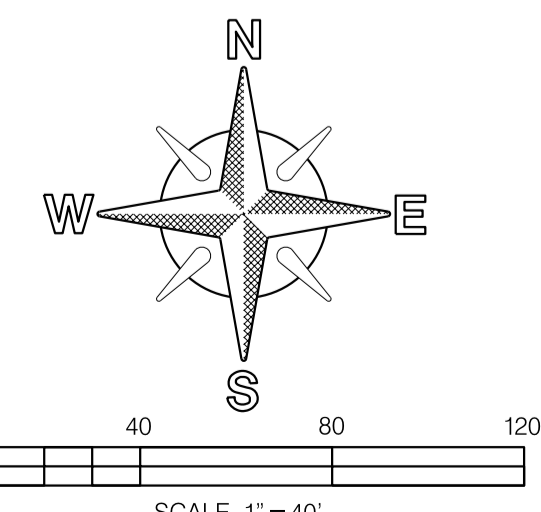
(29) H M HIGGINS ASS
MAP 309

(28) PROUTS RESUB
MAP 838

- ① BY CONTRACTOR
FURNISH AND INSTALL
STA 15+44.67
1- 16" X 6" TEE (MJ, MJ, F)
1- 6" FH ASSY AND MARKER
- ② BY CITY FORCES
AHD OF CONTRACTOR
STA 18+93.42
CUT & PLUG
EX 6" AC WTR., 15' ± LT
EX 8" PVC WTR., 15' ± RT
RECONNECT AFTER NEW MAIN
HAS BEEN ACCEPTED.
- ③ BY THE CONTRACTOR
FURNISH AND INSTALL
STA 18+93.42
1- 16" X 8" CROSS (F)
2- 16" BFV (MJ, F) BK, AHD
2- 8" GV (F, F) LT, RT
1- 8" X 6" REDUCER (MJ, F) LT

REFERENCE:
WATER: 6395-0-L, 27076-2-D,
I2205-15-D
SEWER: 27749-4, 20-D
STORM DRAIN:
GAS:
ELECTRIC:
CABLE TV:
TELEPHONE:
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H22S
THOMAS BROS.: I2892D, 3D
HGL: 390

RETIREMENTS:
16" - CI - 650' - 1962
FH (2-PORT) - 1
1" SERVICE - 17 - COPPER - 1962
2" SERVICE - 1 - COPPER - 1962



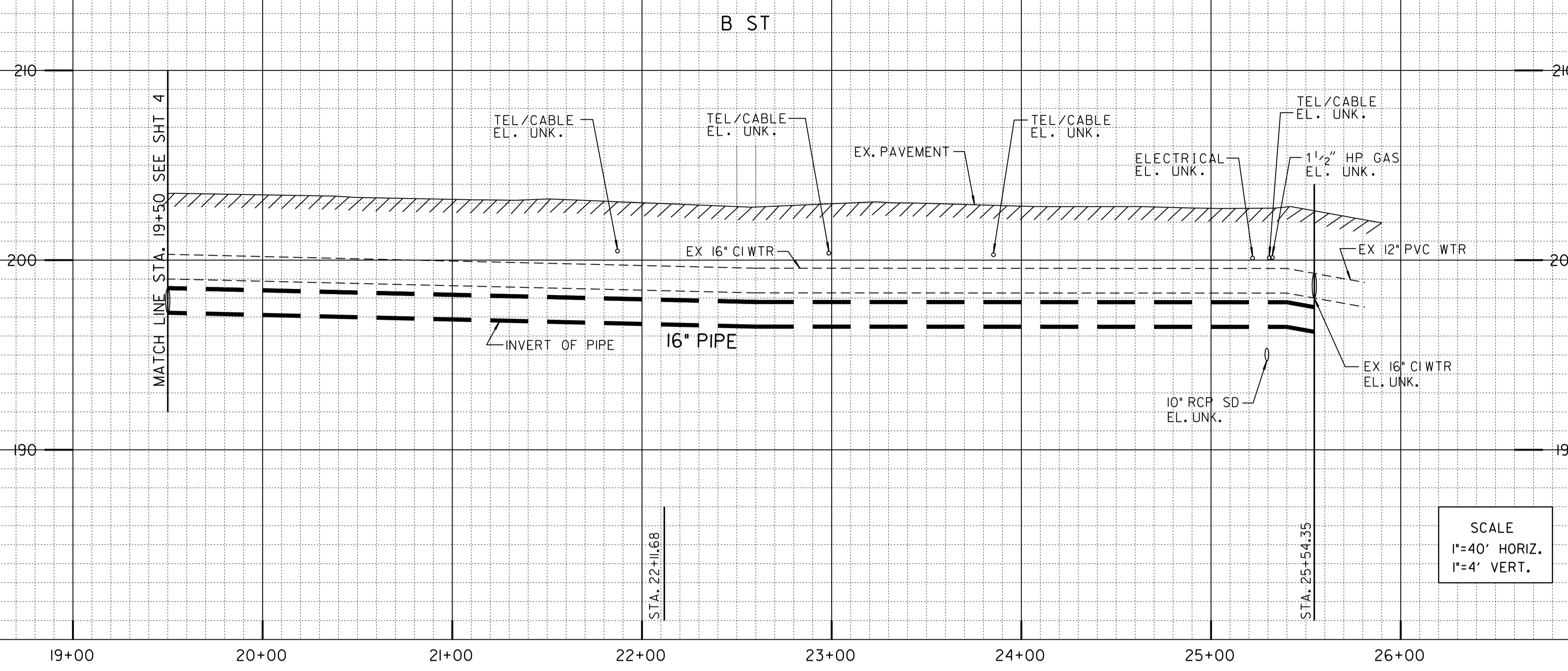
**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959**

STA. 13.00 TO STA. 19+50

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 04 OF 31 SHEETS		WATER WBS B1138 SEWER WBS
FOR CITY ENGINEER <i>Nasrawi</i>	DATE 2/11/13	ASSOCIATE ENGINEER LAILA NASRAWI
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED DATE FILMED
CHECKED BY LOTOUS LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE
CONTRACTOR		1842574-6291151 CCS83 COORDINATE
INSPECTOR	DATE STARTED	36555-04-D
	DATE COMPLETED	

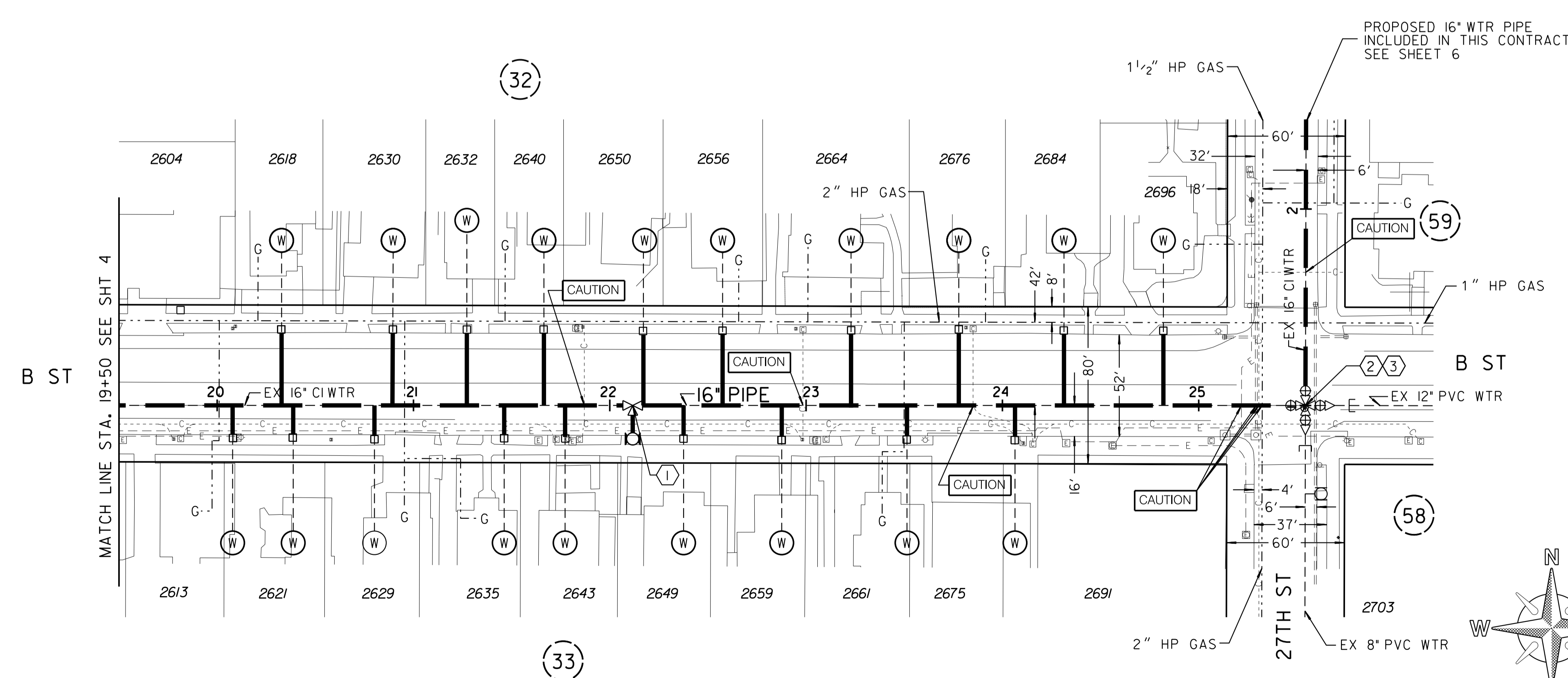
B ST

C-3



POINT	STATION	NORTHING (ft)	EASTING (ft)	ELEMENT LENGTH (ft)	WCB (0 ³³ / ₆₄ 00'00")
POB	19+50.00	1842142.30	6288542.61	STRAIGHT 261.68	1.57
PI	22+11.68	1842142.28	6288804.29	STRAIGHT 342.67	1.57
POE	25+54.35	1842142.26	6289146.96		

SCALE
1"=40' HORIZ.
1"=4' VERT.

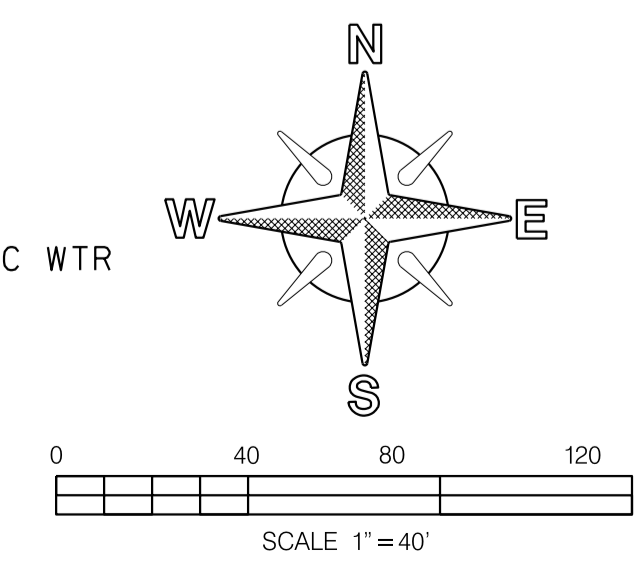


- ① BY CONTRACTOR FURNISH AND INSTALL
STA 22+11.68
1- 16" X 6" TEE (MJ, MJ, F)
1- 6" FH ASSY AND MARKER
- ② BY CITY FORCES AHD OF CONTRACTOR
STA 25+54.35
CUT & PLUG
EX. 12" PVC WTR., 15' ± AHD
EX. 8" PVC WTR., 15' ± RT
RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- ③ BY THE CONTRACTOR FURNISH AND INSTALL
STA 25+54.35
1- 16" CROSS (F)
4- 16" BFV (MJ, F) BK, AHD, LT, RT
1- 16" X 12" REDUCER (F, MJ) AHD
1- 16" X 8" REDUCER (F, MJ) RT

REFERENCE:
WATER: 6395-0-L27076-9-D
SEWER: 27749-4-D
STORM DRAIN: 27075-2-D
GAS:
ELECTRIC:
CABLE TV:
TELEPHONE:
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H22S
THOMAS BROS.: I2892D, 3D
HGL: 390

RETIREMENTS:
16" - CI - 594.53' - 1945
FH (2-PORT) - 1
1" SERVICE - 19 - COPPER - 1945

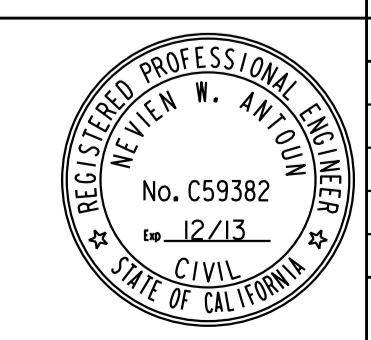
H M HIGGINS ADD
MAP 309



**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959**

STA 19+50.00 TO STA 25+54.37

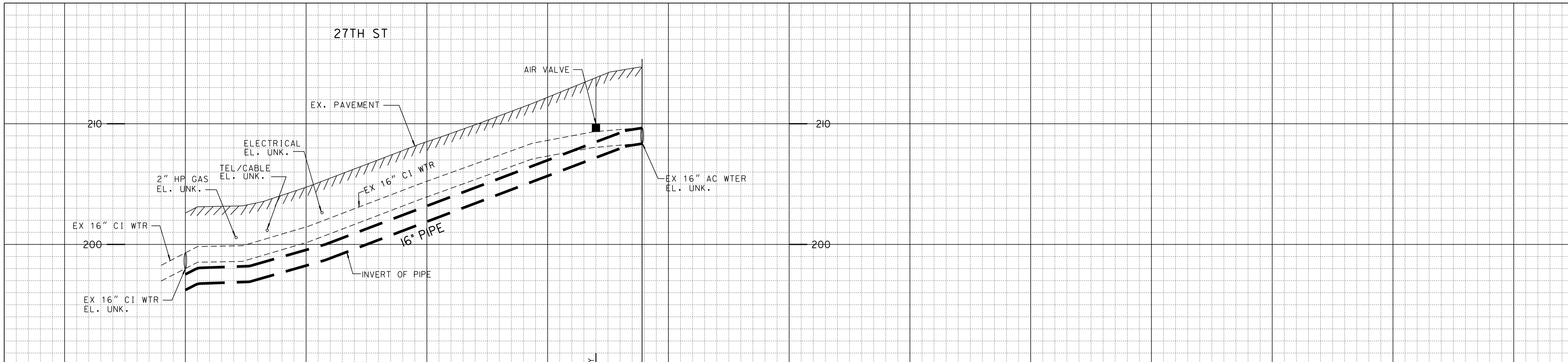
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 05 OF 31 SHEETS		WATER WBS B1138 SEWER WBS S00000
FOR CITY ENGINEER <i>Navin W. Anjoui</i>	DATE 2/11/13	ENGINEER LAILA NASRAWI ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY LL/EG	DATE FILMED
CHIEF ENGINEER LOTOUS LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE
CONTRACTOR		1842574-6291151 CCS83 COORDINATE
INSPECTOR	DATE STARTED	36555-05-D
	DATE COMPLETED	



B ST

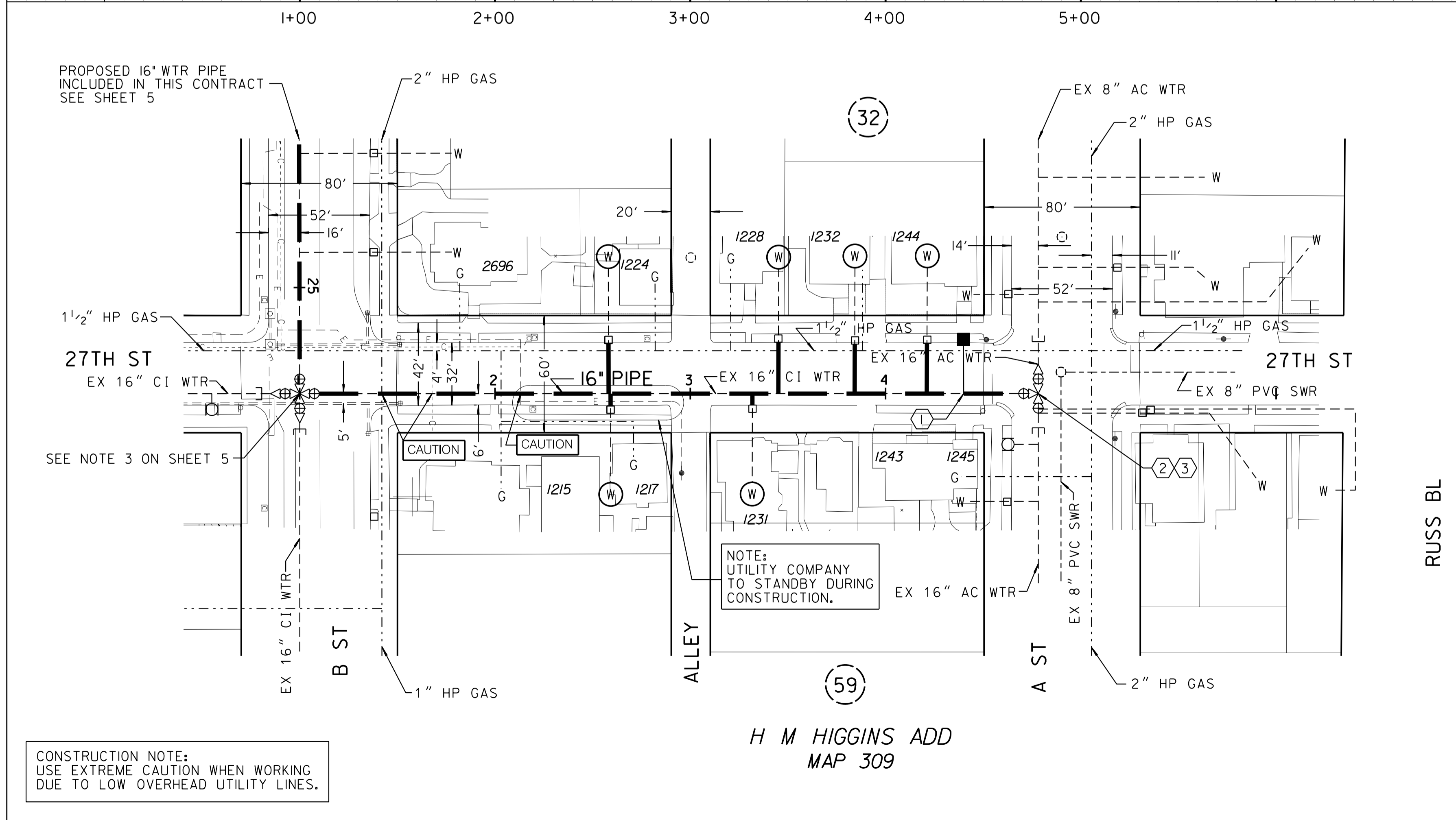
C-4

27TH ST



POINT	STATION	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WBC (0' 00" 00") (STRAIGHT)
POB	1+00.00	1842142.26	6289146.96	STRAIGHT	340.00	0.00
PI	4+40.00	1842482.26	6289147.75	STRAIGHT	38.19	0.00
POE	4+78.19	1842520.45	6289147.83			

SCALE
1"=40' HORIZ.
1"=4' VERT.



- ① BY CONTRACTOR FURNISH AND INSTALL
STA 4+40.00
1- 2" AIR & VACUUM VALVE ASSY
- ② BY CITY FORCES AHD OF CONTRACTOR
STA 4+78.19
CUT & PLUG
EX 8" AC WTR., 15' ± LT
EX 16" AC WTR., 15' ± RT
RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- ③ BY CONTRACTOR FURNISH & INSTALL
STA 4+78.19
1- 16" TEE (F)
3 - 16" BFV (M,J,F) BK, LT, RT
1- 16" X 8" REDUCER (M,J,F) LT

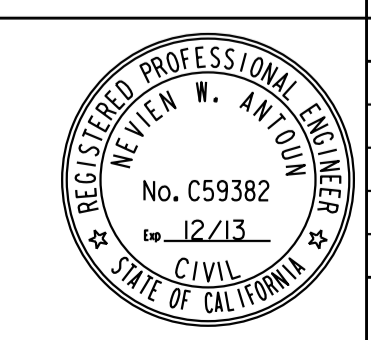
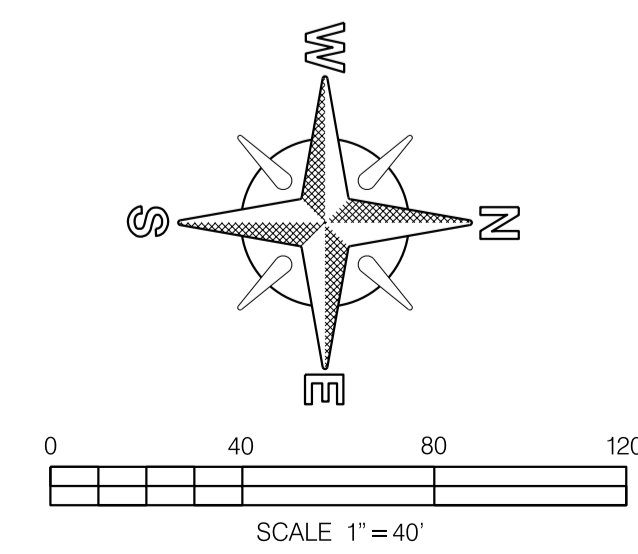
REFERENCE:
WATER: 6395-0-L, 27076-2-D I2205-II, I5-D
SEWER: 27749-I8-D
STORM DRAIN:
GAS: I289-C3
ELECTRIC: 200-1725
CABLE TV: CS040IDA.DGN
TELEPHONE: CS040IDA.DGN
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H225
THOMAS BROS.: I2892D, 3D
HGL: 390

RETIREMENTS:
16" - CI - 378.19' - 1926
1" SERVICE - 6 - COPPER - 1926

C-5

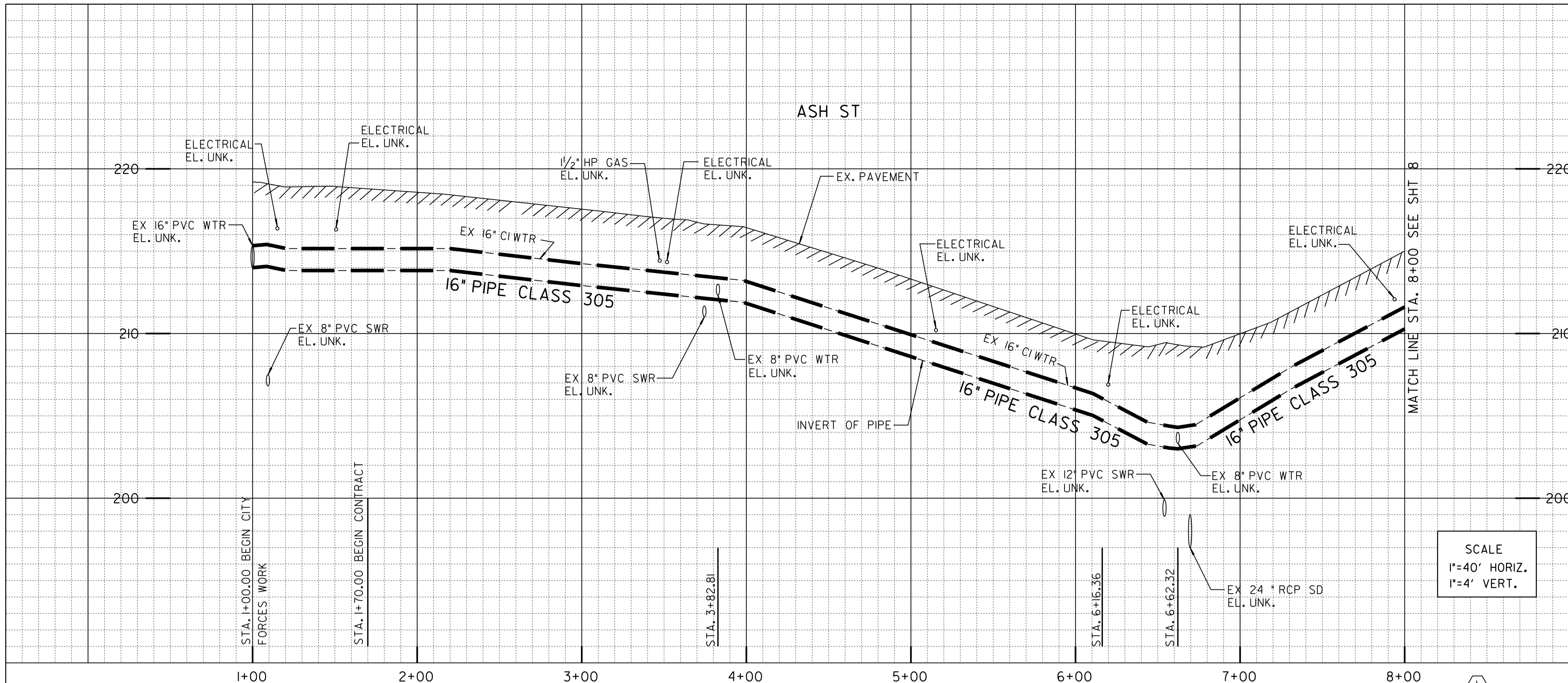
**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959**
STA 1+00.00 TO STA 4+78.19

CITY OF SAN DIEGO, CALIFORNIA		WATER WBS	B1138
PUBLIC WORKS DEPARTMENT		SEWER WBS	
SHEET 06 OF 31 SHEETS		DATE	2/11/13
FOR CITY ENGINEER	<i>[Signature]</i>	DATE	
DESIGNER	LAILA NASRAWI	ASSOCIATE ENGINEER	
DESCRIPTION	ORIGINAL	BY	LL/EG
APPROVED		DATE	
FILMED			
CHIEF ENGINEER	LOTOUS LENGUYEN	PROJECT ENGINEER	
	200-1725	CCS27 COORDINATE	
	1842574-6291151	CCS83 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		36555-06-D	



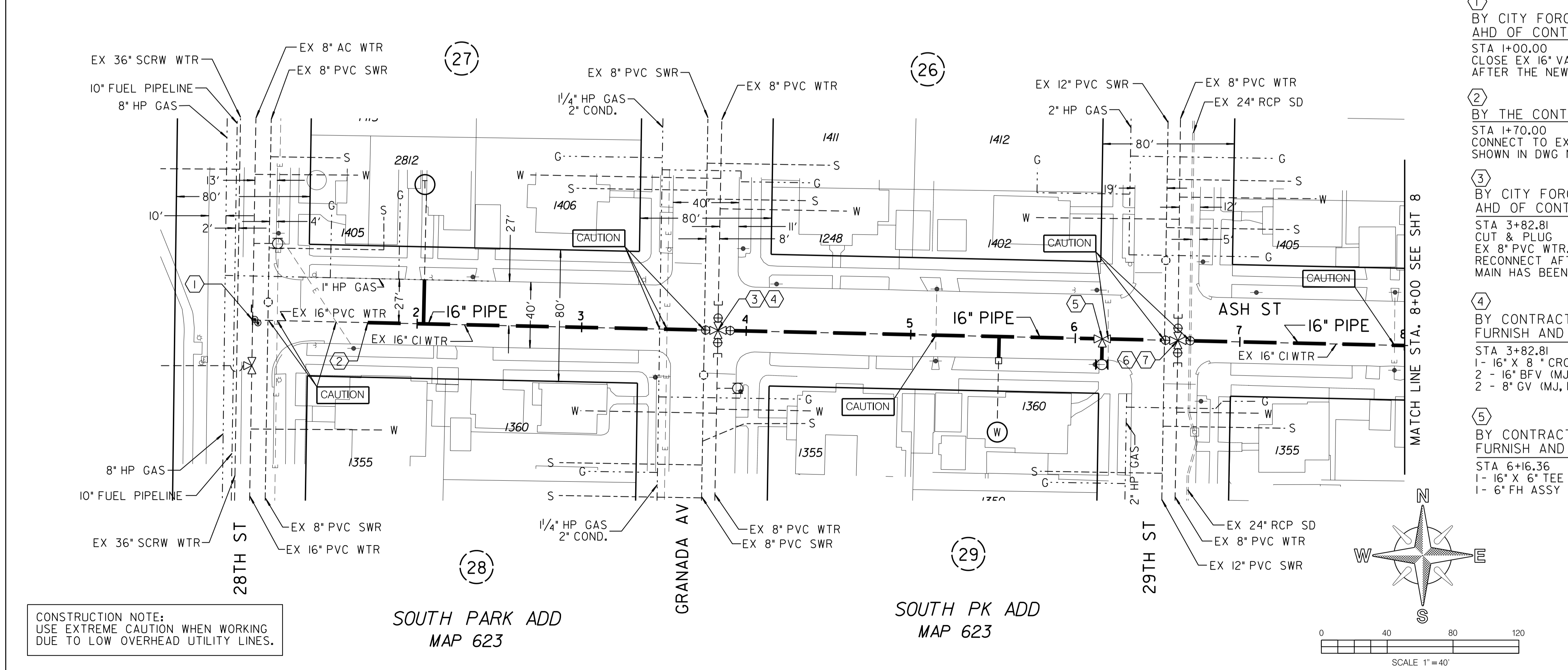
CONSTRUCTION NOTE:
USE EXTREME CAUTION WHEN WORKING
DUE TO LOW OVERHEAD UTILITY LINES.

H M HIGGINS ADD
MAP 309



POINT	STATION	NORTHING (ft)	EASTING (ft)	ELEMENT LENGTH (ft)	WBC (0' 00" 00") (STRAIGHT)
POB	1+00.00	1843003.58	6289815.74	STRAIGHT 282.81	1.59
PI	3+82.81	1842997.32	6290098.48	STRAIGHT 233.55	1.59
PI	6+16.36	1842992.16	6290331.97	STRAIGHT 45.96	1.59
PI	6+62.32	1842991.15	6290377.92	STRAIGHT 137.68	1.59
POE	8+00.00	1842988.10	6290515.57		

SCALE
1"=40' HORIZ.
1"=4' VERT.



- 1 BY CITY FORCES AHD OF CONTRACTOR STA 1+00.00 CLOSE EX 16" VALVE AHD. REOPEN AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- 2 BY THE CONTRACTOR STA 1+70.00 CONNECT TO EXISTING 16" PVC WTR. SHOWN IN DWG NO. 26631-31-D.
- 3 BY CITY FORCES AHD OF CONTRACTOR STA 3+82.81 CUT & PLUG EX 8" PVC WTR., 15' ± LT, RT RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- 4 BY CONTRACTOR FURNISH AND INSTALL STA 3+82.81
1 - 16" X 8" CROSS (F)
2 - 16" BFV (MJ, F) BK, AHD
2 - 8" GV (MJ, F) LT, RT
- 5 BY CONTRACTOR FURNISH AND INSTALL STA 6+16.36
1 - 16" X 6" TEE (MJ, MJ, F)
1 - 6" FH ASSY AND MARKER
- 6 BY CITY FORCES AHD OF CONTRACTOR STA 6+62.32 CUT & PLUG EX 8" PVC WTR., 15' ± LT, RT RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- 7 BY CONTRACTOR FURNISH AND INSTALL STA 6+62.32
1 - 16" X 8" CROSS (F)
2 - 16" BFV (MJ, F) BK, AHD
2 - 8" GV (MJ, F) LT, RT

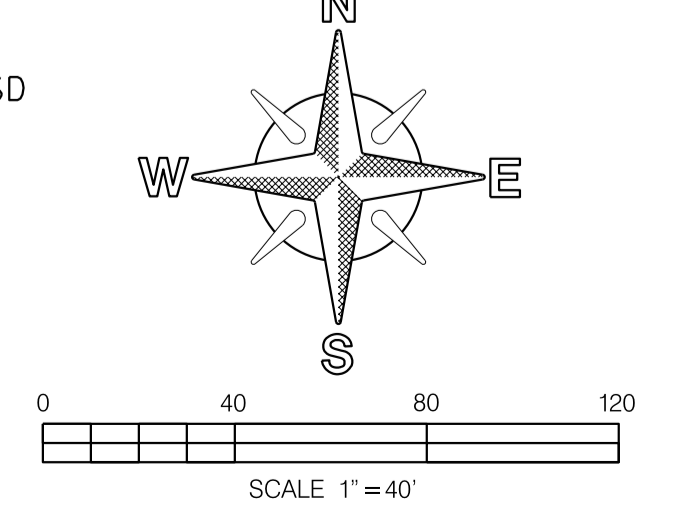
REFERENCE:
WATER: 6884-0-W, 10622-5-D
26465-2-D
SEWER: 26631-1I, 23-D
26465-2I, 25-D
STORM DRAIN: 14742-D
GAS: 1289-D3
ELECTRIC: 202-1728A
CABLE TV: CS060IBA.DGN
TELEPHONE: CS060IBA.DGN
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H22S
THOMAS BROS.: 12892E
HGL: 390

RETIREMENTS:
16" - CI-700' - 1956
1 - 16" X 8" CROSS (F)
FH (2-PORT) - 1
1" SERVICE - 2 - COPPER - 1956

CONSTRUCTION NOTE:
USE EXTREME CAUTION WHEN WORKING
DUE TO LOW OVERHEAD UTILITY LINES.

SOUTH PARK ADD
MAP 623

SOUTH PK ADD
MAP 623



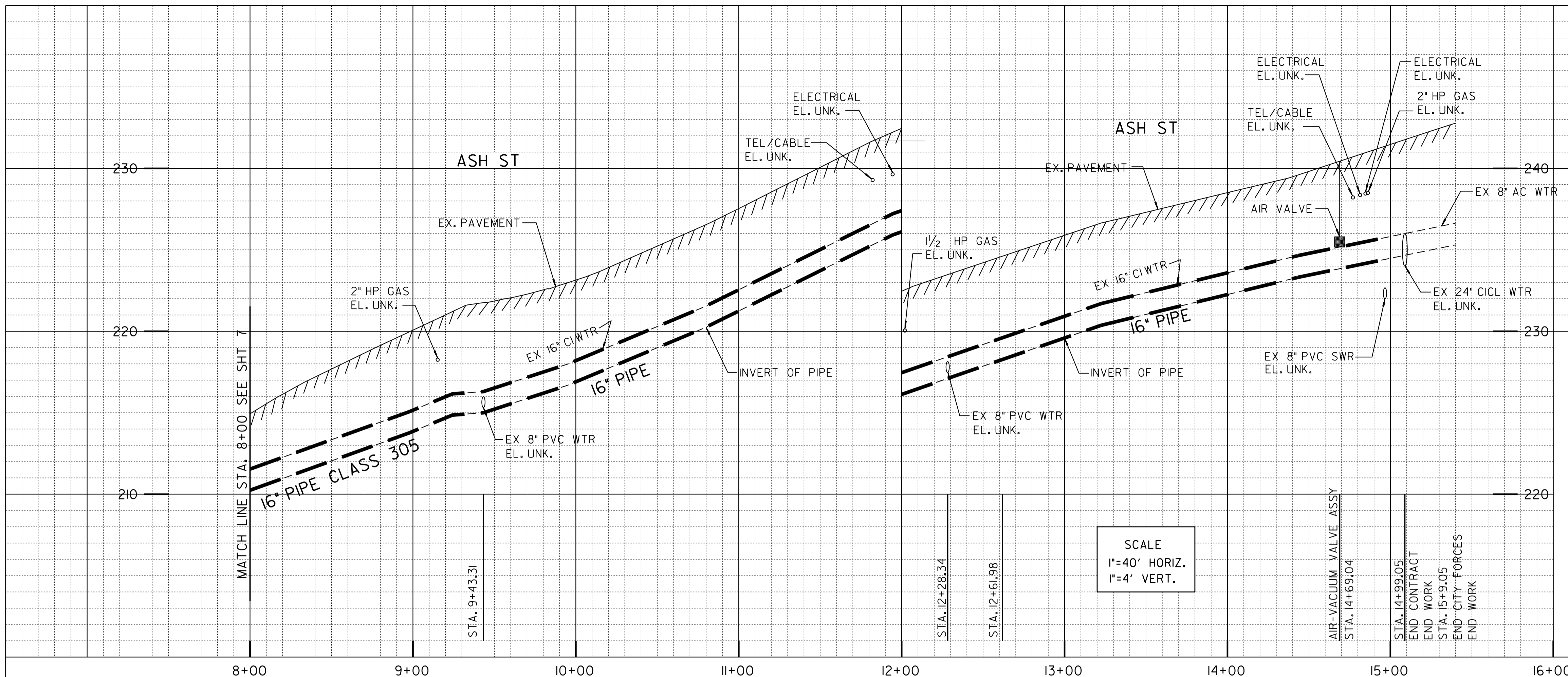
**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959
STA 1+00.00 TO STA 8+00.00**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 07 OF 31 SHEETS		WATER WBS B1138 SEWER WBS
FOR CITY ENGINEER <i>Nasrawi</i>	DATE 2/11/13	ENGINEER LAILA NASRAWI ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED DATE FILMED
CHIEF OF PROJECT LOTOUS LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE
CONTRACTOR		1842574-6291151 CCS83 COORDINATE
INSPECTOR	DATE STARTED	36555-07-D
	DATE COMPLETED	

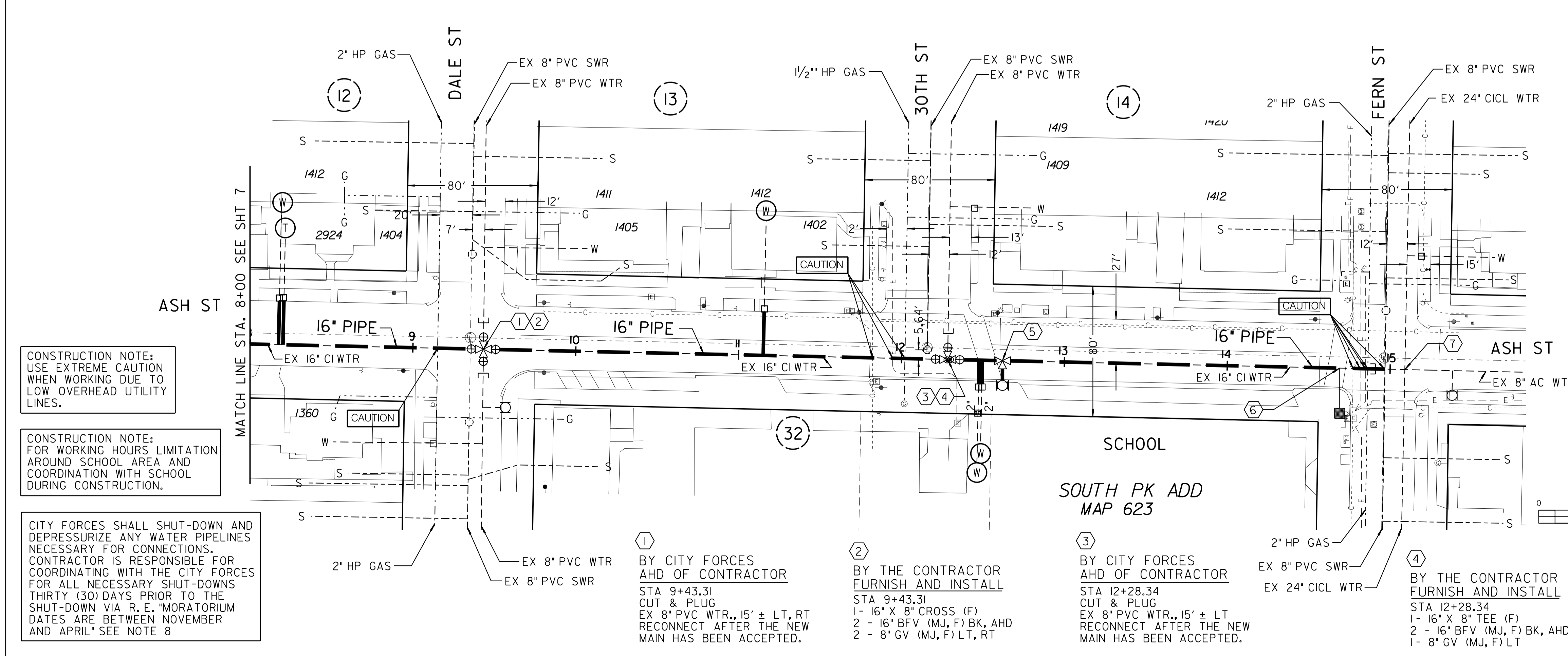


ASH ST

C-6



POINT	STATION	NORTHING (ft)	EASTING (ft)	ELEMENT LENGTH (ft)	WBC (0° 00' 00") (STRAIGHT)
POB	8+00.00	1842988.10	6290515.57	STRAIGHT 143.31	1.59
PI	9+43.31	1842984.94	6290658.84	STRAIGHT 285.02	1.59
PI	12+28.34	1842978.64	6290943.80	STRAIGHT 33.64	1.59
PI	12+61.98	1842977.89	6290977.43	STRAIGHT 207.06	1.59
PI	14+69.04	1842973.32	6291184.44	STRAIGHT 40.01	1.59
POE	15+09.05	1842972.43	6291224.44		



CONSTRUCTION NOTE:
USE EXTREME CAUTION
WHEN WORKING DUE TO
LOW OVERHEAD UTILITY
LINES.

CONSTRUCTION NOTE:
FOR WORKING HOURS LIMITATION
AROUND SCHOOL AREA AND
COORDINATION WITH SCHOOL
DURING CONSTRUCTION.

CITY FORCES SHALL SHUT-DOWN AND
DEPRESSURIZE ANY WATER PIPELINES
NECESSARY FOR CONNECTIONS.
CONTRACTOR IS RESPONSIBLE FOR
COORDINATING WITH THE CITY FORCES
FOR ALL NECESSARY SHUT-DOWNS
THIRTY (30) DAYS PRIOR TO THE
SHUT-DOWN VIA R. E. MORATORIUM
DATES ARE BETWEEN NOVEMBER
AND APRIL* SEE NOTE 8

(12)

(13)

(14)

(32)

(1) BY CITY FORCES
AHD OF CONTRACTOR
STA 9+43.31
CUT & PLUG
EX 8" PVC WTR., 15' ± LT, RT
RECONNECT AFTER THE NEW
MAIN HAS BEEN ACCEPTED.

(2) BY THE CONTRACTOR
FURNISH AND INSTALL
STA 9+43.31
1 - 16" X 8" CROSS (F)
2 - 16" BFV (MJ, F) BK, AHD
2 - 8" GV (MJ, F) LT, RT

(3) BY CITY FORCES
AHD OF CONTRACTOR
STA 12+28.34
CUT & PLUG
EX 8" PVC WTR., 15' ± LT
RECONNECT AFTER THE NEW
MAIN HAS BEEN ACCEPTED.

(4) BY THE CONTRACTOR
FURNISH AND INSTALL
STA 12+28.34
1 - 16" X 8" TEE (F)
2 - 16" BFV (MJ, F) BK, AHD
1 - 8" GV (MJ, F) LT

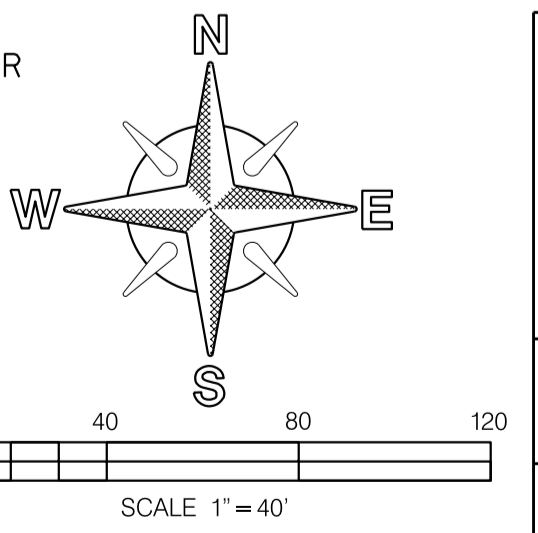
(5) BY CONTRACTOR
FURNISH AND INSTALL
STA 12+61.98
1 - 16" X 6" TEE (MJ, MJ, F)
1 - 6" FH ASSY AND MARKER

(6) BY CONTRACTOR
FURNISH AND INSTALL
STA 14+69.04
1 - 2" AIR & VACUUM VALVE ASSY

(7) BY CITY FORCES
AHD OF CONTRACTOR
STA 15+09.05
CUT & PLUG
EX 16" CI WTR., 10' ± BK
RECONNECT TO EX 16" VALVE
AFTER THE NEW MAIN HAS
BEEN ACCEPTED.

REFERENCE:
WATER: 6884-0-W, 26465-7,9-D
SEWER: 26465-27, 29, 32-D
STORM DRAIN: I4742-D
GAS: I289-D3
ELECTRIC: 202-1728A
CABLE TV: CS060IBB.DGN
TELEPHONE: CS060IBB.DGN
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H225
THOMAS BROS.: I2892F
HGL: 390

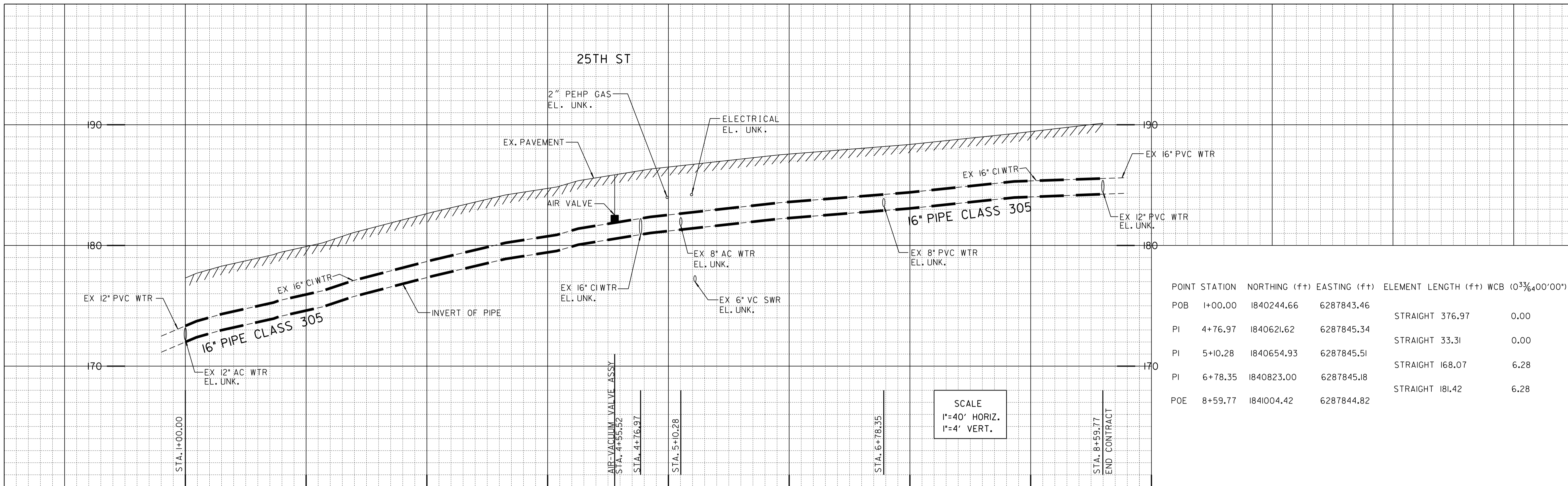
RETIREMENTS:
16" - MATERIAL - 710' - 1956
FH (2-PORT) - 1
1" SERVICE - 3 - COPPER - 1956



**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959**
STA 8+00.00 TO STA 15+09.05

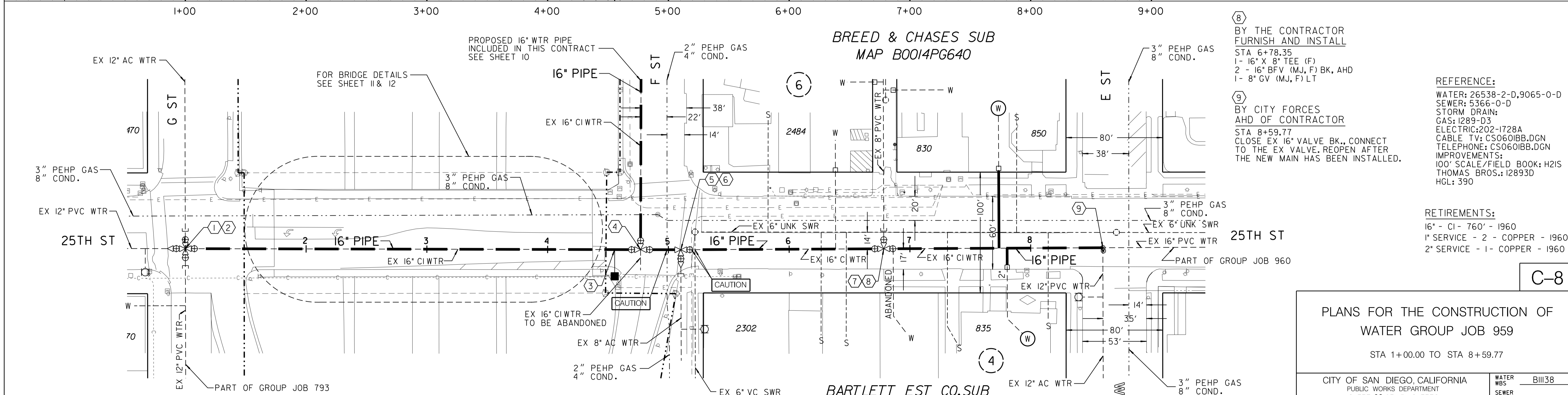
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 08 OF 31 SHEETS		WATER WBS: B1138 SEWER WBS: _____
FOR CITY ENGINEER: <i>Nasrawi</i>	DATE: 2/11/13	ENGINEER: LAILA NASRAWI ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: LL/EG	DATE: _____
APPROVED: _____	DATE: _____	FILMED: _____
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____
CHIEF OF PROJECT: LOTOUS LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE
1842574-6291151 CCS83 COORDINATE		36555-08-D

25TH ST



POINT STATION	NORTHING (ft)	EASTING (ft)	ELEMENT LENGTH (ft)	WCB (0 ³³ 6,00'00")
POB 1+00.00	1840244.66	6287843.46	STRAIGHT 376.97	0.00
PI 4+76.97	1840621.62	6287845.34	STRAIGHT 33.31	0.00
PI 5+10.28	1840654.93	6287845.51	STRAIGHT 168.07	6.28
PI 6+78.35	1840823.00	6287845.18	STRAIGHT 181.42	6.28
POE 8+59.77	1841004.42	6287844.82		

SCALE
1"=40' HORIZ.
1"=4' VERT.

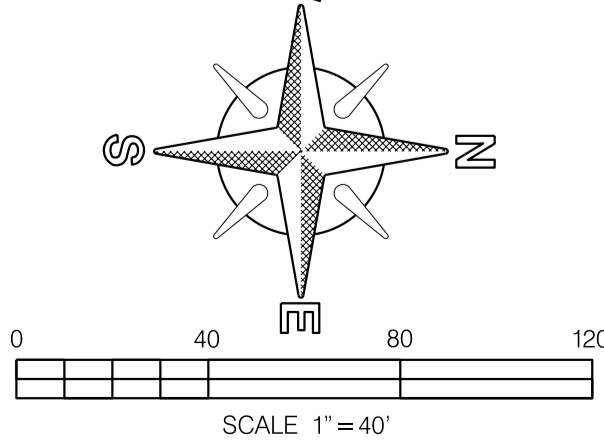


- 8 BY THE CONTRACTOR FURNISH AND INSTALL
STA 6+78.35
1- 16" X 8" TEE (F)
2- 16" BFV (MJ, F) BK, AHD
1- 8" GV (MJ, F) LT
- 9 BY CITY FORCES AHD OF CONTRACTOR
STA 8+59.77
CLOSE EX 16" VALVE BK., CONNECT TO THE EX VALVE. REOPEN AFTER THE NEW MAIN HAS BEEN INSTALLED.

REFERENCE:
WATER: 26538-2-D, 9065-0-D
SEWER: 5366-0-D
STORM DRAIN:
GAS: 1289-D3
ELECTRIC: 202-1728A
CABLE TV: CS060IBB.DGN
TELEPHONE: CS060IBB.DGN
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H21S
THOMAS BROS.: 12893D
HGL: 390

RETIREMENTS:
16" - CI - 760' - 1960
1" SERVICE - 2 - COPPER - 1960
2" SERVICE - 1 - COPPER - 1960

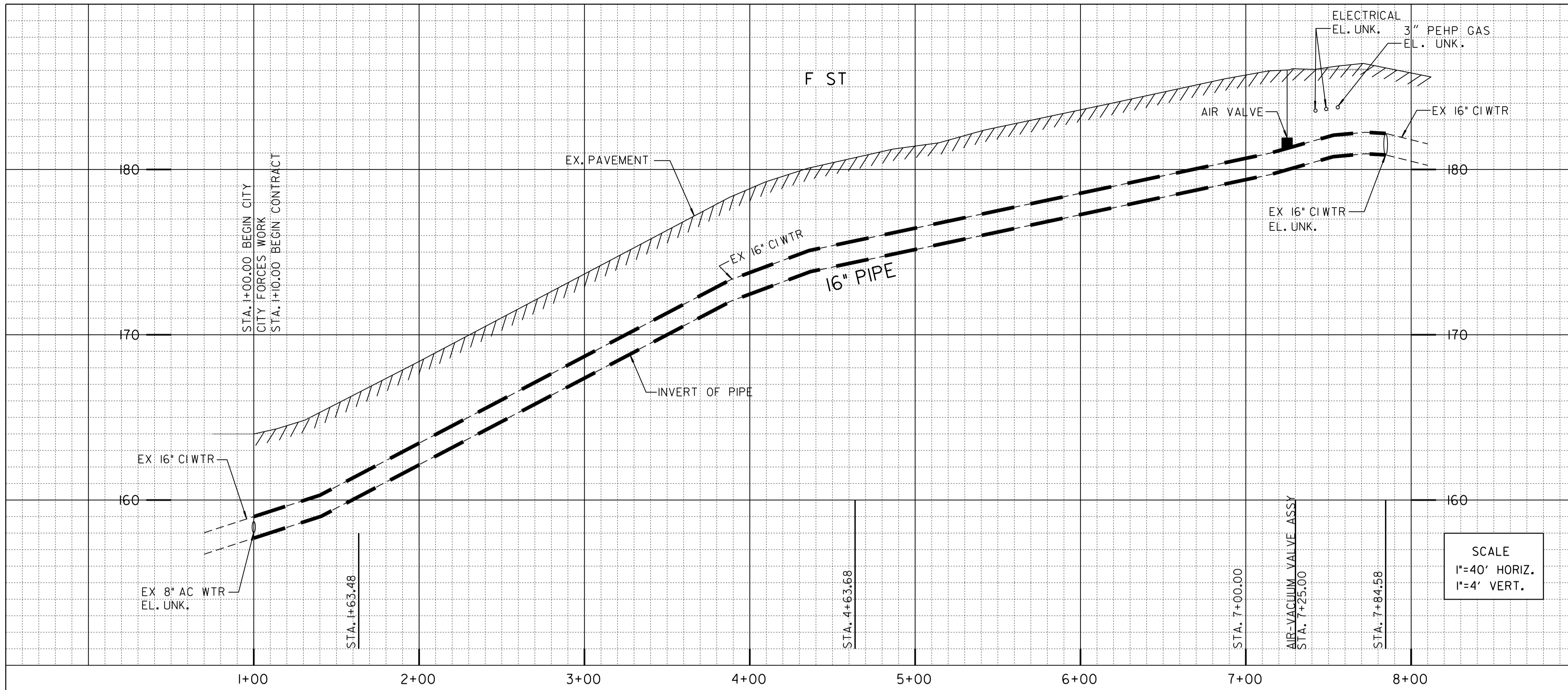
- 1 BY CITY FORCES AHD OF CONTRACTOR
STA 1+00.00
CUT & PLUG
EX 12" PVC WTR., 15' ± BK
EX 12" AC WTR., 15' ± LT
EX 12" PVC WTR., 15' ± RT
RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- 2 BY CONTRACTOR FURNISH AND INSTALL
STA 1+00.00
1- 16" X 12" CROSS (F)
2- 16" BFV (F, F) BK, AHD
2- 12" GV (MJ, F) LT, RT
1- 16" X 12" REDUCER (MJ, F) BK
- 3 BY CONTRACTOR FURNISH AND INSTALL
STA 4+55.52
1- 2" AIR & VACUUM VALVE ASSY
- 4 BY CONTRACTOR FURNISH AND INSTALL
STA 4+76.97
1- 16" TEE (F)
3- 16" BFV (MJ, F) BK, AHD, LT
- 5 BY CITY FORCES AHD OF CONTRACTOR
STA 5+10.28
EX 8" AC WTR., 10' ± RT
RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.
- 6 BY CONTRACTOR FURNISH AND INSTALL
STA 5+10.28
1- 16" X 12" TEE (F)
1- 16" BFV (F, MJ) AHD
1- 12" GV (F, F) RT
1- 12" X 8" REDUCER (F, MJ) RT
- 7 BY CITY FORCES AHD OF CONTRACTOR
STA 6+78.35
CUT & PLUG
EX 8" PVC WTR., 15' ± LT
RECONNECT AFTER THE NEW MAIN HAS BEEN ACCEPTED.



**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959
STA 1+00.00 TO STA 8+59.77**

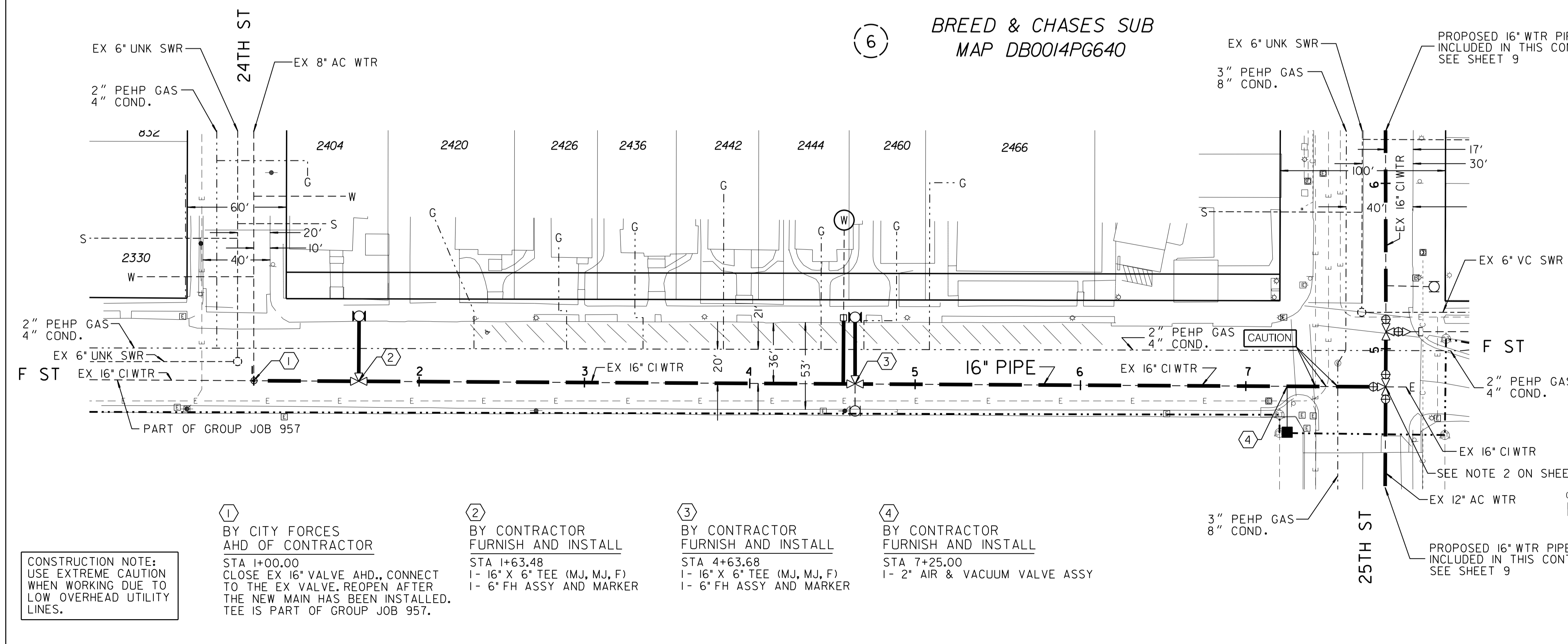
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 09 OF 31 SHEETS		WATER WBS BIII38 SEWER WBS
FOR CITY ENGINEER <i>[Signature]</i>	DATE 2/11/13	ASSOCIATE ENGINEER LAILA NASRAWI
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED DATE FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
CHIEF ENGINEER LOTOUS LENGUYEN PROJECT ENGINEER 200-1725 CCS27 COORDINATOR 1842574-629151 CCS83 COORDINATOR		36555-09 -D





POINT	STATION	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0 ³ / ₄ 400'00')
POB	1+00.00	1840625.34	6287160.77	STRAIGHT	63.48	1.58
PI	1+63.48	1840624.99	6287224.25	STRAIGHT	300.20	1.58
PI	4+63.68	1840623.36	6287524.44	STRAIGHT	236.32	1.58
PI	7+00.00	1840622.08	6287760.76	STRAIGHT	84.58	1.58
POE	7+84.58	1840621.62	6287845.34			

SCALE
1"=40' HORIZ.
1"=4' VERT.

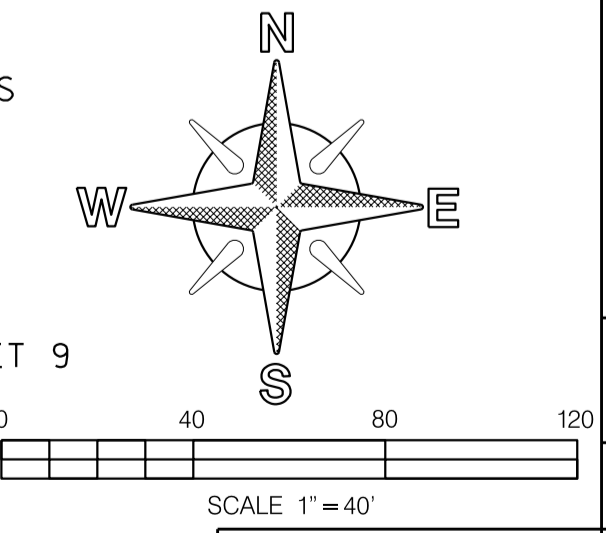


REFERENCE:
WATER: 9065-0-D, 8508-0-W
SEWER: 5366-0-D, I4468-4-L
STORM DRAIN:
GAS: I289 D3
ELECTRIC: 200-1725
CABLE TV: CS0403DA.DGN
TELEPHONE:
IMPROVEMENTS:
100' SCALE/FIELD BOOK: H225
THOMAS BROS.: I2893D
HGL: 390

RETIREMENTS:
16" - CI - 684.58' - 1911
FH (2-PORT) - 1
1" SERVICE - 1 - COPPER - 1911

CONSTRUCTION NOTE:
USE EXTREME CAUTION
WHEN WORKING DUE TO
LOW OVERHEAD UTILITY
LINES.

- ① BY CITY FORCES
AHD OF CONTRACTOR
STA 1+00.00
CLOSE EX 16" VALVE AHD., CONNECT
TO THE EX VALVE. REOPEN AFTER
THE NEW MAIN HAS BEEN INSTALLED.
TEE IS PART OF GROUP JOB 957.
- ② BY CONTRACTOR
FURNISH AND INSTALL
STA 1+63.48
1- 16" X 6" TEE (MJ, MJ, F)
1- 6" FH ASSY AND MARKER
- ③ BY CONTRACTOR
FURNISH AND INSTALL
STA 4+63.68
1- 16" X 6" TEE (MJ, MJ, F)
1- 6" FH ASSY AND MARKER
- ④ BY CONTRACTOR
FURNISH AND INSTALL
STA 7+25.00
1- 2" AIR & VACUUM VALVE ASSY



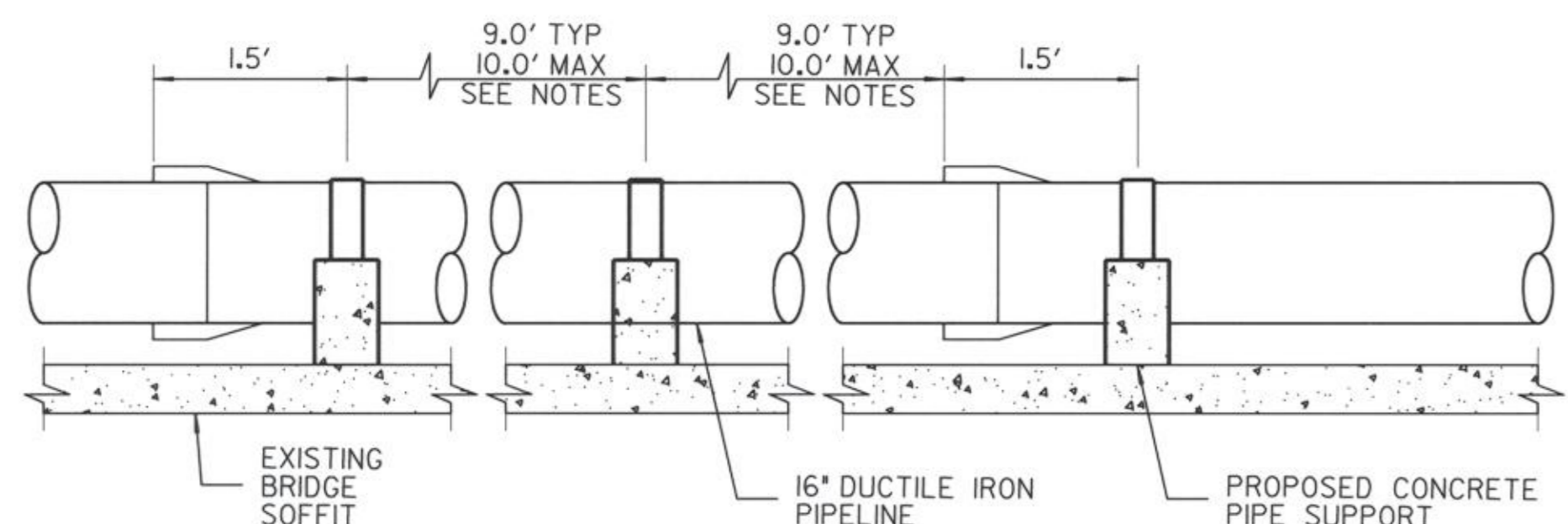
**PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959**
STA 1+00.00 TO STA 7+84.58

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 10 OF 31 SHEETS		WATER WBS BIII38 SEWER WBS
FOR CITY ENGINEER <i>[Signature]</i>	DATE 2/11/13	ASSOCIATE ENGINEER LAILA NASRAWI
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED DATE FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

CHIEF OF BUREAU
LOTOUS LENGUYEN
PROJECT ENGINEER
200-1725
CCS27 COORDINATE
1842574-6291151
CCS83 COORDINATE
36555-10-D

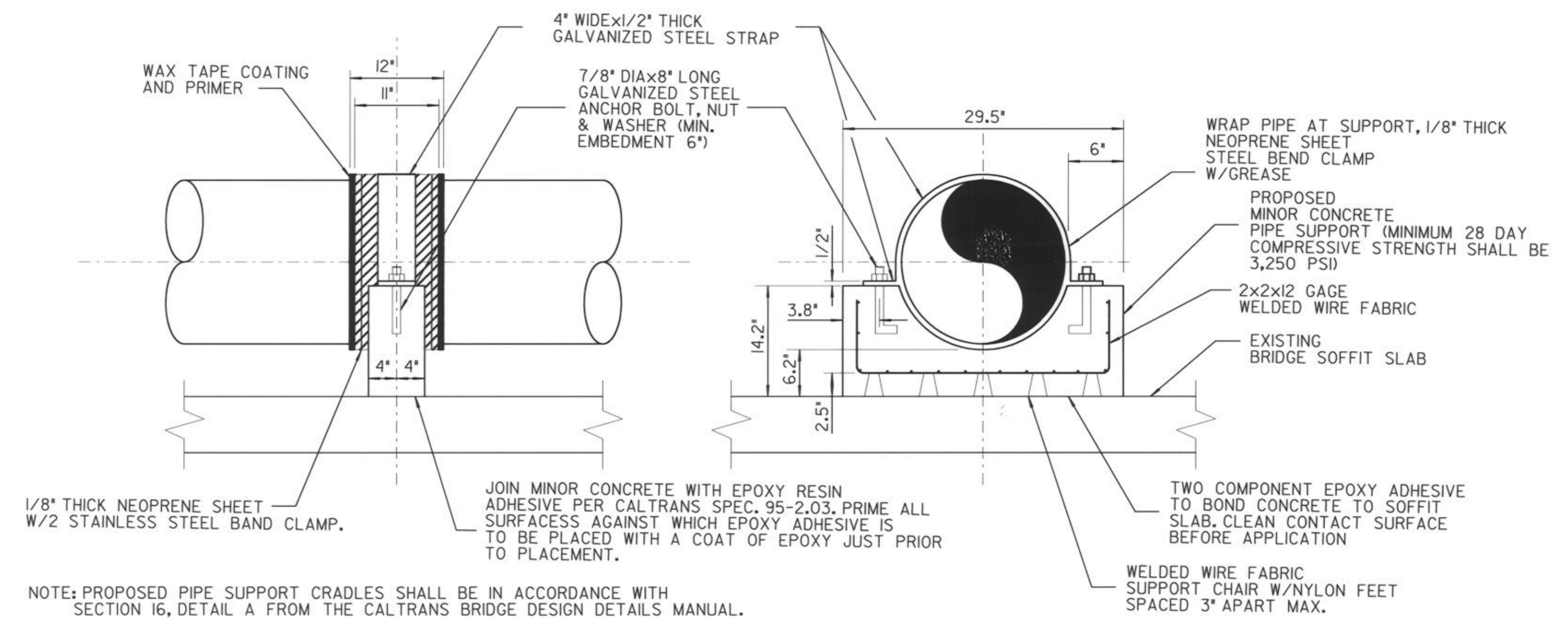
F ST

PERMIT NUMBER 11-12-NUB-0440
 CO. SD RTE 94 PM 1.84
 AS-BUILT PLANS FOR ROADWAY
 GEOMETRIC AND ABOVE GROUND
 FEATURES
 STATE REPRESENTATIVE _____ DATE _____



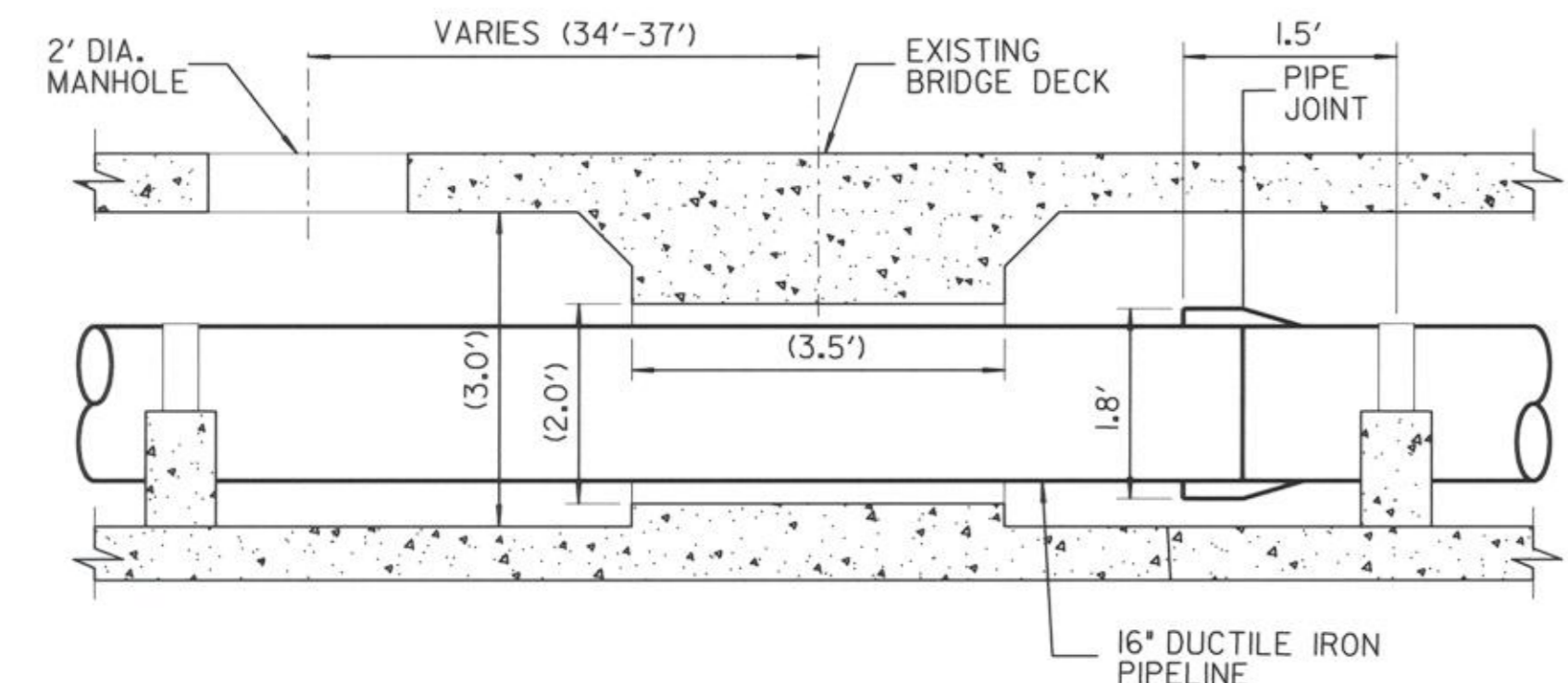
NOTE: FOR PIPE SUPPORT DIMENSIONS REFER TO "PROPOSED PIPE SUPPORT" DETAIL THIS SHEET
 A. WATER MAIN SUPPORT SPACING SHALL BE DETERMINED BY THE UTILITY OWNER, BUT SHALL NOT EXCEED 10 FT AND SHALL BE SUBJECTED TO STATE APPROVAL.
 B. SUPPORT SPACING SHALL BE IN ACCORDANCE WITH THIS DETAIL, UNLESS SHOWN OTHERWISE ON THE PLANS (SEE SOFFIT OPENING DETAIL ON SHEET 14-D).

TYPICAL CONCRETE PIPE SUPPORT SPACING DETAIL
 N.T.S.

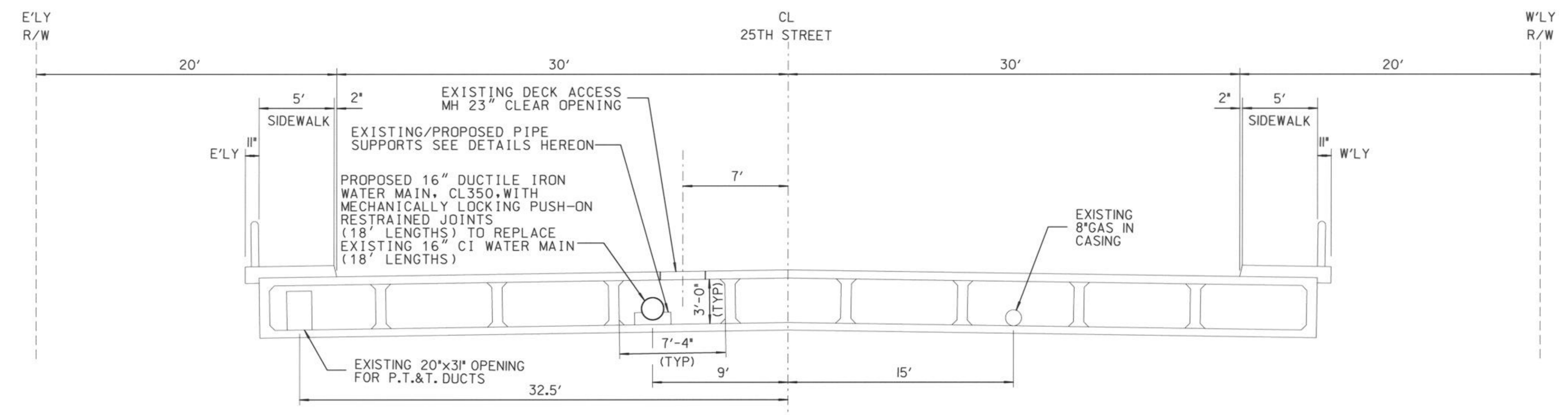


NOTE: PROPOSED PIPE SUPPORT CRADLES SHALL BE IN ACCORDANCE WITH SECTION 16, DETAIL A FROM THE CALTRANS BRIDGE DESIGN DETAILS MANUAL.

PROPOSED PIPE SUPPORT
 N.T.S.



PIPE INSTALLATION AT BENT CAP
 N.T.S.



NOTE: PROPOSED 16\"/>

TYPICAL SECTION OF SR94/25TH STREET OVERCROSSING FROM "F" STREET TO "G" STREET
 N.T.S.

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

Jane A. Lee
 (ENGINEER'S NAME) 6-24-13
 DATE

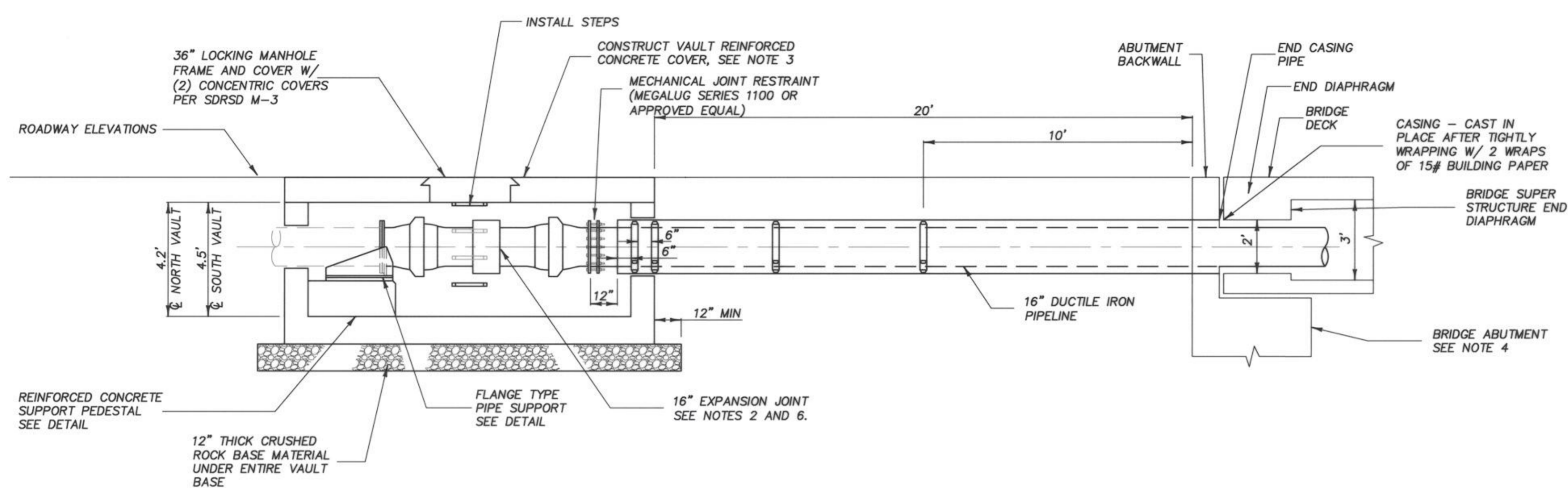
C-11

WATER GROUP 959 SR 94 /25TH STREET OVERCROSSING BETWEEN "F" STREET AND "G" STREET OVERCROSSING PIPE DETAILS				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 12 OF 31 SHEETS			WATER WBS B-1138 SEWER WBS NONE	DATE 6-25-13
APPROVED FOR CITY ENGINEER	BY	APPROVED	DATE	FILMED
<i>[Signature]</i>	H&A		6-25-13	
DESCRIPTION ORIGINAL	BY	APPROVED	DATE	FILMED
CONTRACTOR			DATE STARTED	36555-12-D
INSPECTOR			DATE COMPLETED	

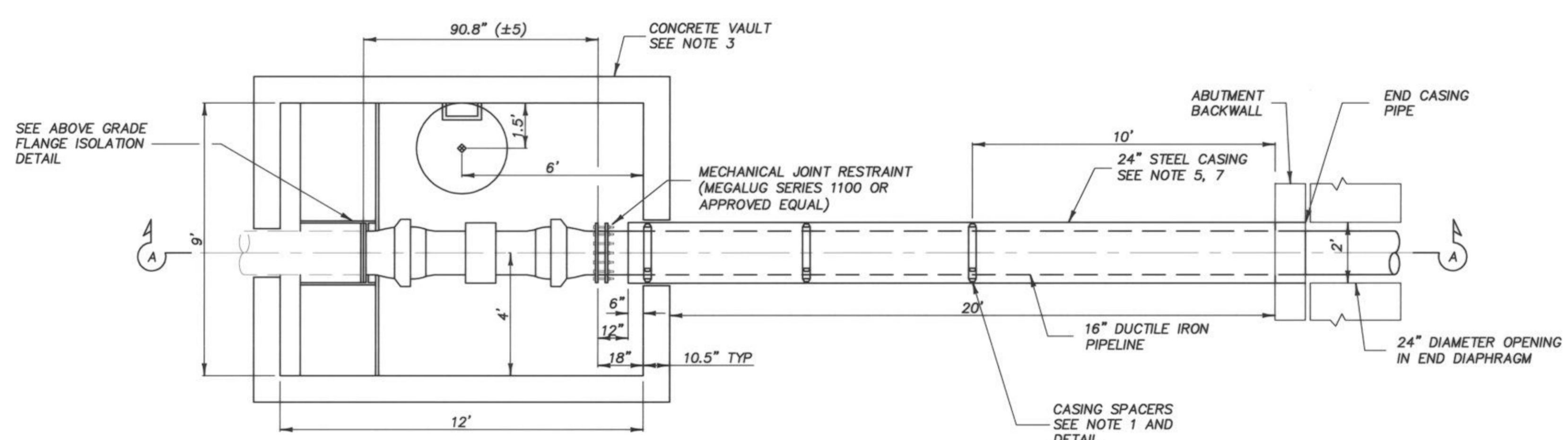
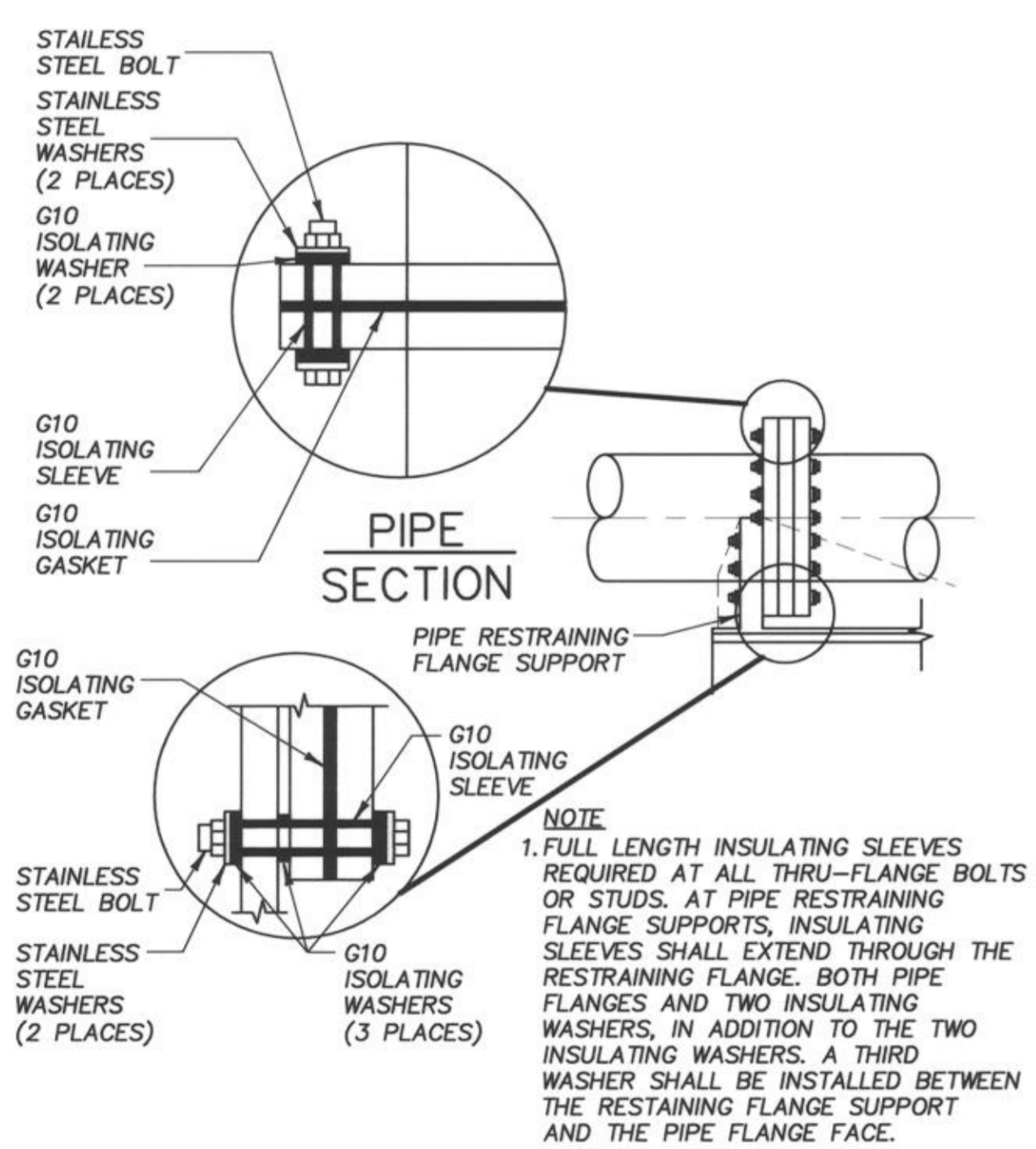
HARRIS & ASSOCIATES
 750 B Street, Suite 1800
 San Diego, CA 92101
 (619) 236-1778 • FAX (619) 236-1179



SR 94 /25TH STREET OVERCROSSING



- NOTES:**
- CASING SPACERS SHALL BE INSTALL @ 5' OC MAX, EXCEPT WHERE INDICATED OTHERWISE ON PLANS.
 - EXPANSION JOINT SHALL BE EBAA IRON FLEX-TEND SERIES NO. 4416C20B OR APPROVED EQUAL & SHALL ALLOW FOR TOTAL MOVEMENT OF 10-INCHES. AFTER INSTALLATION IN FIELD, 50% OF TOTAL MOVEMENT SHALL BE RESERVED FOR EXPANSION AND 50% OF TOTAL MOVEMENT SHALL BE RESERVED FOR CONTRACTION.
 - PRECAST CONCRETE VAULT WITH REMOVABLE CONCRETE SLAB (TOP), H20 LOADING PER DIMENSIONS HEREON. REINFORCING PER MANUFACTURER.
 - FILL SPACE BETWEEN ABUTMENT AND CASING WITH GROUT AFTER TIGHTLY WRAPPING THIMBLE WITH 2 LAYERS OF 15# BUILDING PAPER.
 - CASING SHALL EXTEND TO THE NORTH AND SOUTH FROM THE ABUTMENT BACKWALL TO 6" INSIDE WALL OF THE VAULT.
 - PROVISION FOR EXPANSION/CONTRACTION AND DEFLECTION JOINTS SHALL BE MADE.
 - CASING PIPE SHALL BE WELDED STEEL PIPE CONFORMING TO THE SPECIFICATIONS. INTERIOR AND EXTERIOR SURFACE OF THE CASING PIPE SHALL BE CLEANED AND PRIMED, WHERE IN CONTACT WITH SOIL, THE EXTERIOR SURFACE SHALL BE COATED WITH COAL TAR ENAMEL AND WRAPPED WITH A BONDED FELT WRAPPER IN ACCORDANCE WITH AWWA C-203.



ABOVE GRADE FLANGE ISOLATION
NOT TO SCALE

16" WATERMAIN FORCE-BALANCED FLEXIBLE EXPANSION JOINT VAULT

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.

Paul A. He
 (ENGINEER'S NAME) 6-24-13
 DATE

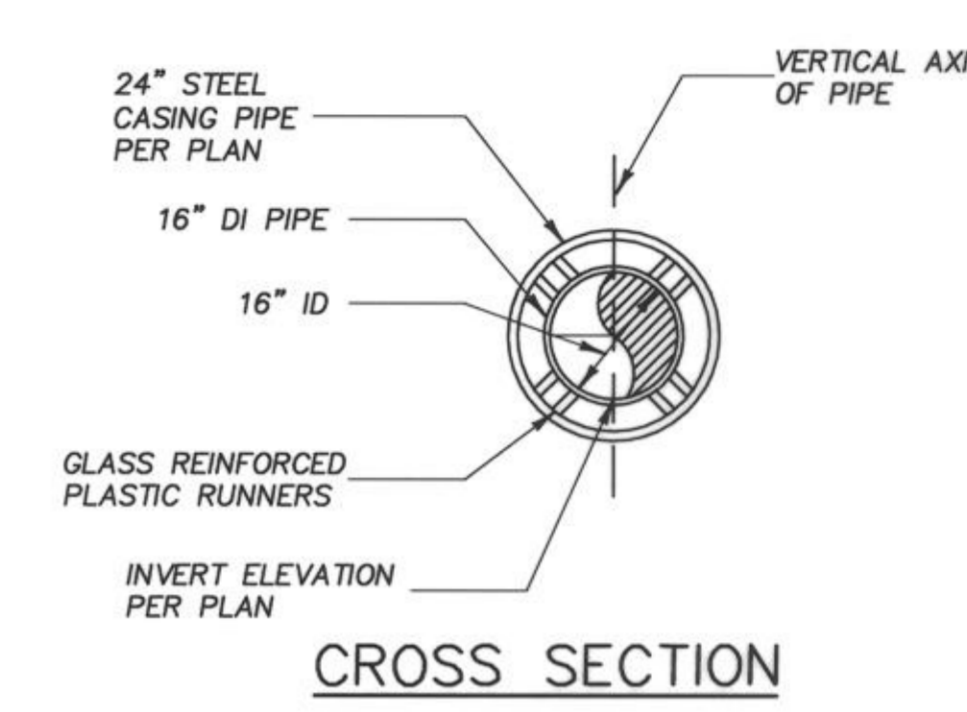
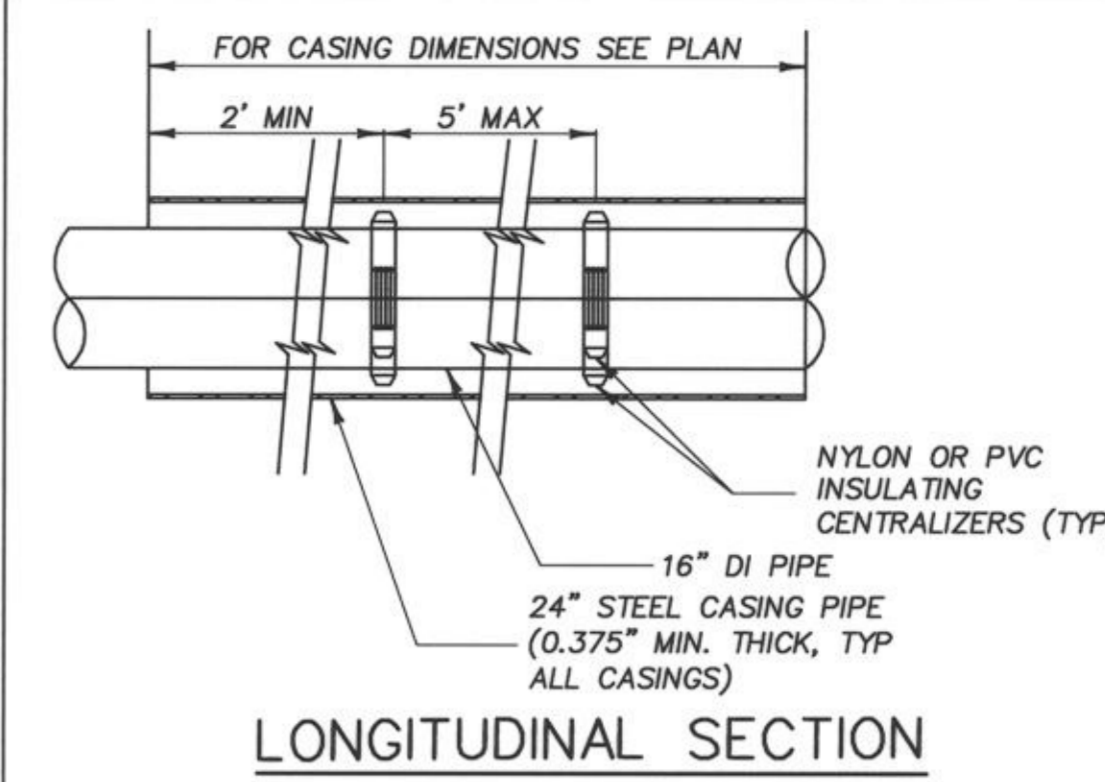
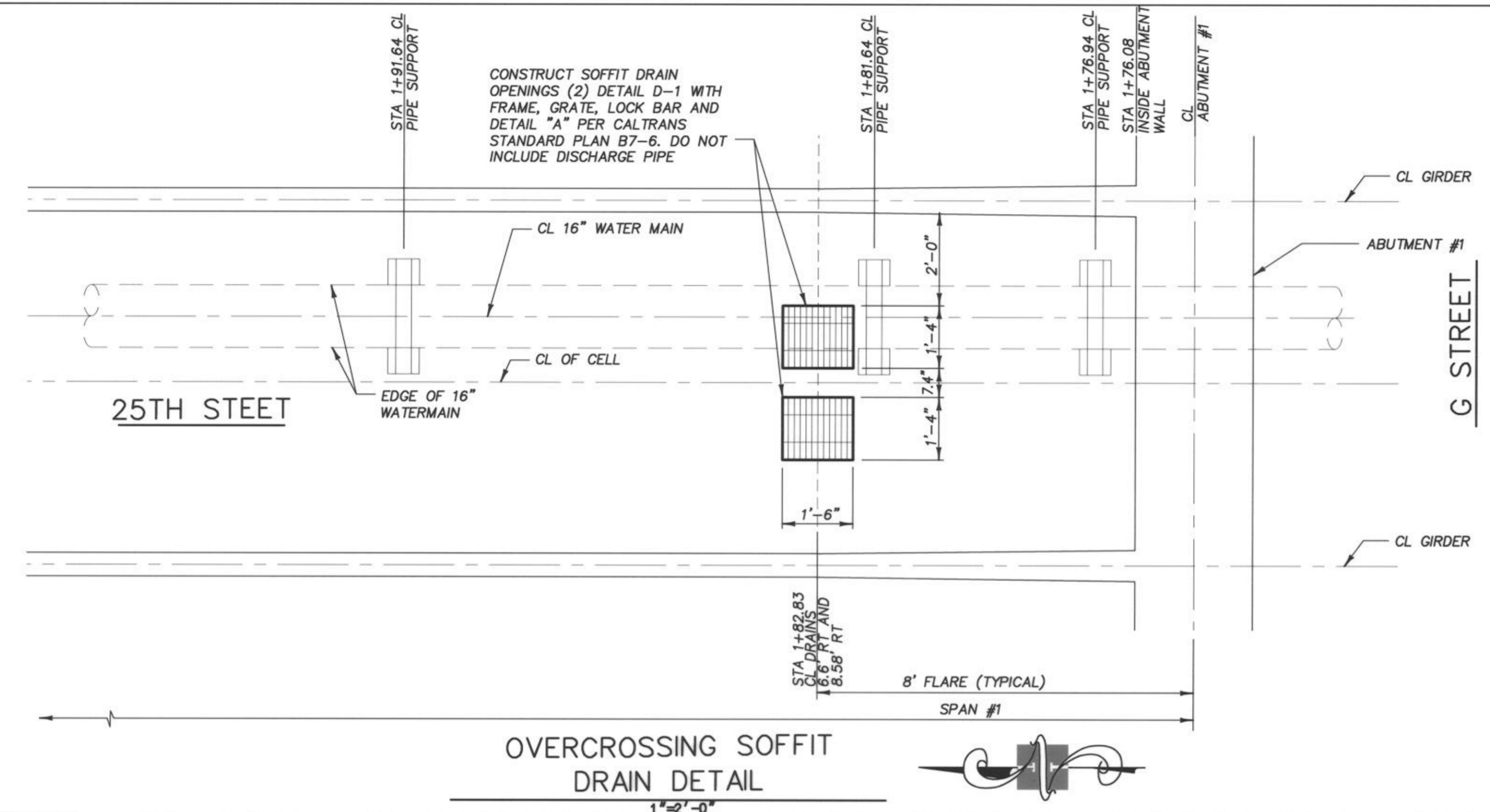
HARRIS & ASSOCIATES
 750 B Street, Suite 1800
 San Diego, CA 92101
 (619) 236-1778 • FAX (619) 236-1179



WATER GROUP 959 SR 94/25TH STREET OVERCROSSING F STREET TO G STREET VAULT AND CASING DETAILS			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 13 OF 31 SHEETS		WATER WBS B-11138	SEWER WBS NONE
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE 6-25-13	DRAWN BY: LAILA NASRAWI ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY H & A	DATE	FILED
CHECKED BY: LOTOUS LENGUYEN PROJECT ENGINEER			198-1725 OCS27 COORDINATE 1840-6288 OCS83 COORDINATE
CONTRACTOR	DATE STARTED	36555-13-D	
INSPECTOR	DATE COMPLETED		

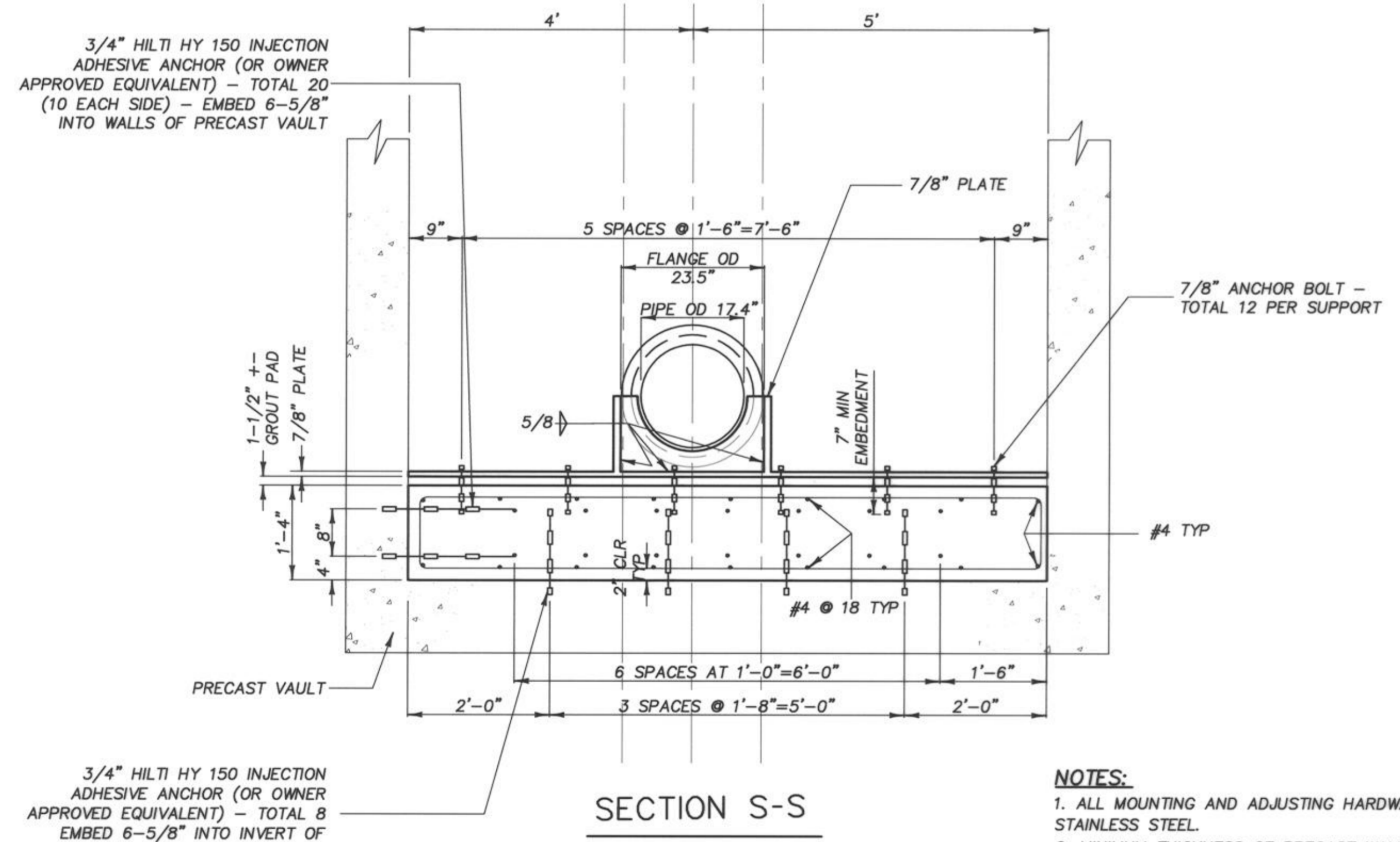
SR 94/25TH STREET OVERCROSSING

PERMIT NUMBER 11-12-NUB-0440
 CO. SD RTE 94 PM 1.84
 AS-BUILT PLANS FOR ROADWAY
 GEOMETRIC AND ABOVE GROUND
 FEATURES
 STATE REPRESENTATIVE _____ DATE _____



- NOTES:**
- CASING PIPE SPACERS SHALL BE LOCATED AROUND THE CARRIER PIPE SO THAT THE PLASTIC RUNNERS ARE LOCATED SYMMETRICALLY ABOUT THE VERTICAL AXIS OF THE CARRIER PIPE.
 - CASING SPACERS SHALL BE CENTERED, RESTRAINED AND MANUFACTURED BY CASCADE WATERWORKS OR APPROVED EQUAL.
 - THE ANNULAR SPACE BETWEEN THE CARRIER PIPE AND CASING SHALL NOT BE FILLED.
 - CASING PIPE SHALL BE WELDED STEEL PIPE CONFORMING TO THE SPECIFICATIONS. INTERIOR AND EXTERIOR SURFACES OF THE CASING SHALL BE CLEANED AND PRIMED, WHERE IN CONTACT WITH SOIL. THE EXTERIOR SURFACE SHALL BE COATED WITH COAL TAR ENAMEL AND WRAPPED WITH A BONDED FELT WRAPPER IN ACCORDANCE WITH AWWA C203.

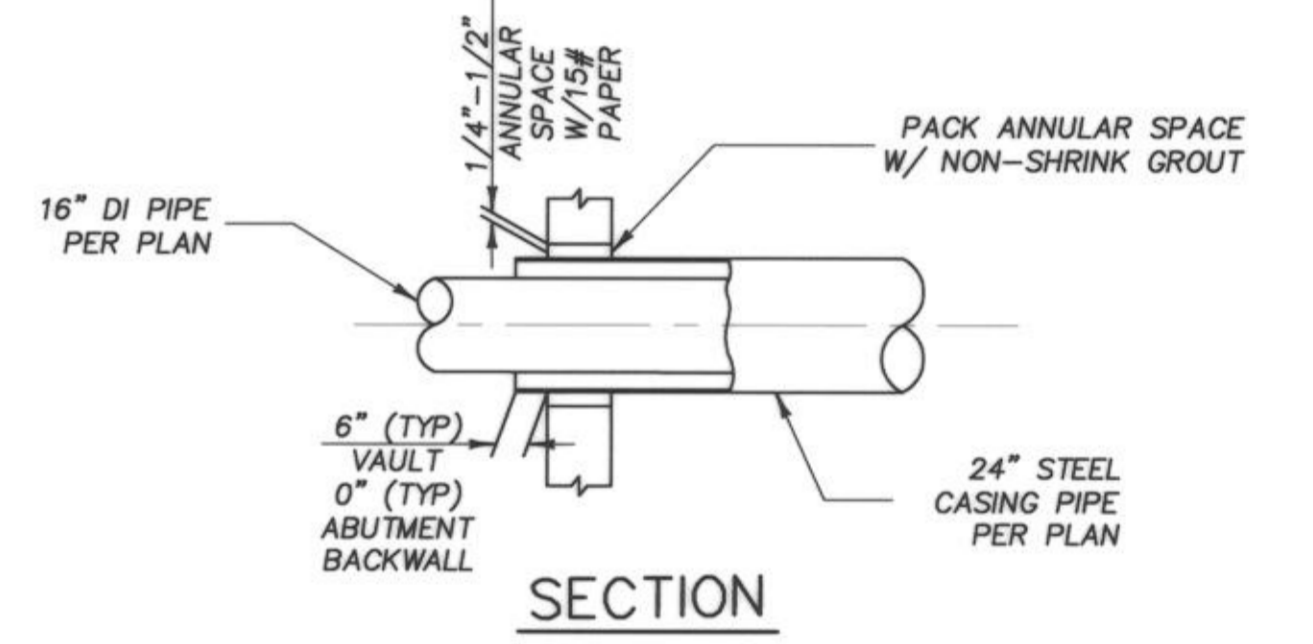
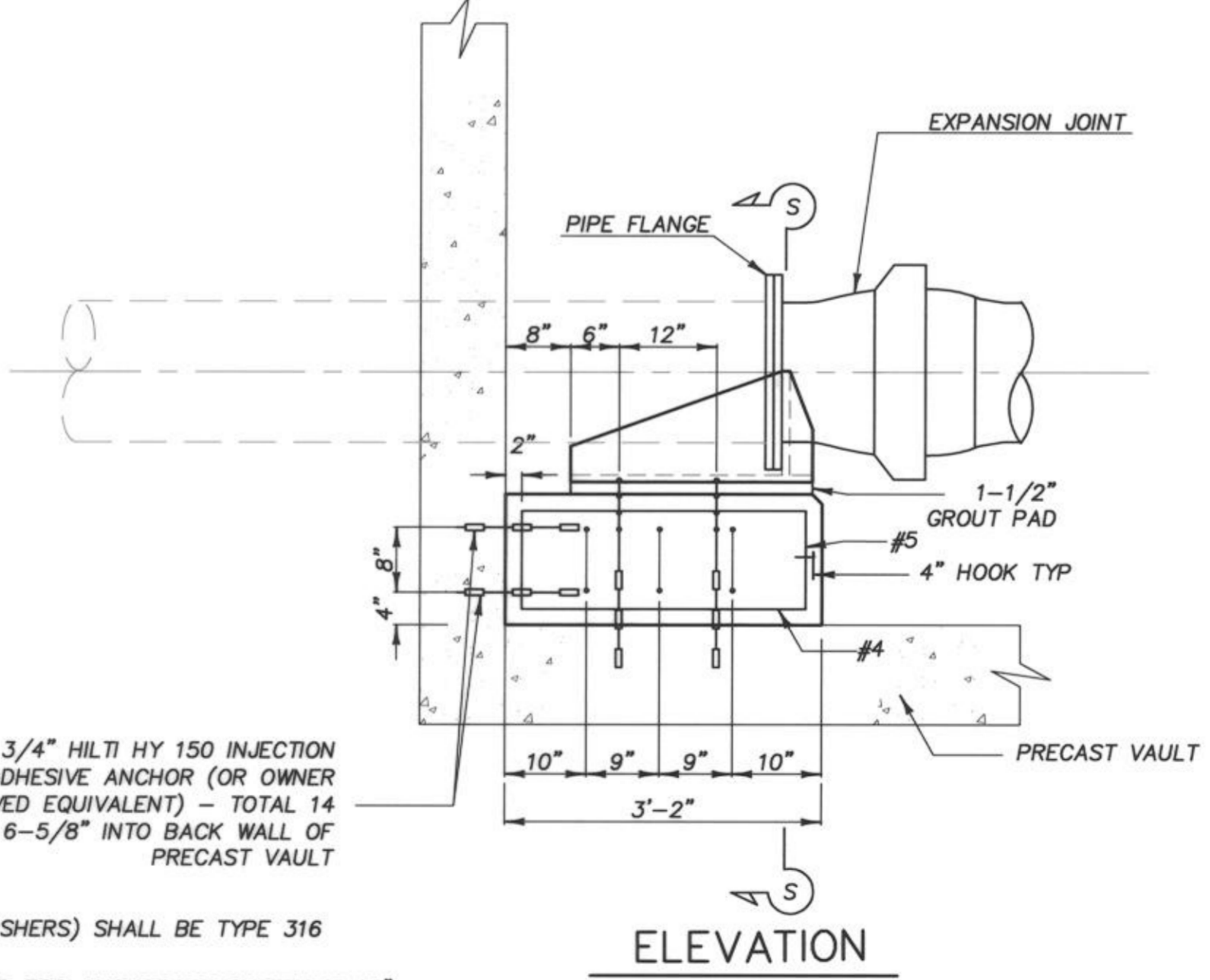
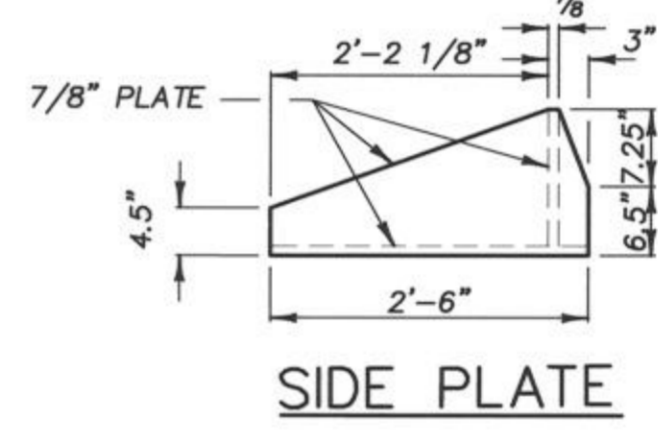
CASING PIPE
1'-2'-0"



3/4" HILTI HY 150 INJECTION ADHESIVE ANCHOR (OR OWNER APPROVED EQUIVALENT) - TOTAL 14 EMBED 6-5/8" INTO BACK WALL OF PRECAST VAULT

- NOTES:**
- ALL MOUNTING AND ADJUSTING HARDWARE (BOLTS, NUTS, WASHERS) SHALL BE TYPE 316 STAINLESS STEEL.
 - MINIMUM THICKNESS OF PRECAST WALL AND INVERT REQUIRED FOR ANCHORAGE SYSTEM IS 10".
 - ANCHOR BOLTS SHALL BE SET IN PLACE BEFORE CASTING CONCRETE.
 - GALVANIZE STEEL PLATE AFTER FABRICATION.
 - 1-1/2" THICK NON-SHRINK HIGH STRENGTH GROUT.
 - IF WELD NECK FLANGE IS USED, THE PIPE OD SIZE WOULD BE THE OD OF THE WELD NECK.
 - DRILL PLATE TO MATCH FLANGE BOLT SIZE & LOCATION.

FLANGE TYPE THRUST RESTRAINING PIPE SUPPORT AT VAULT
1'-1.5'-0"



GROUTED WALL PENETRATION
1'-1.5'-0"

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.

April A. Lee
 (ENGINEER'S NAME)



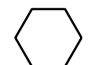
6-24-13
 DATE

HARRIS & ASSOCIATES
 750 B Street, Suite 1800
 San Diego, CA 92101
 (619) 236-1778 • FAX (619) 236-1179

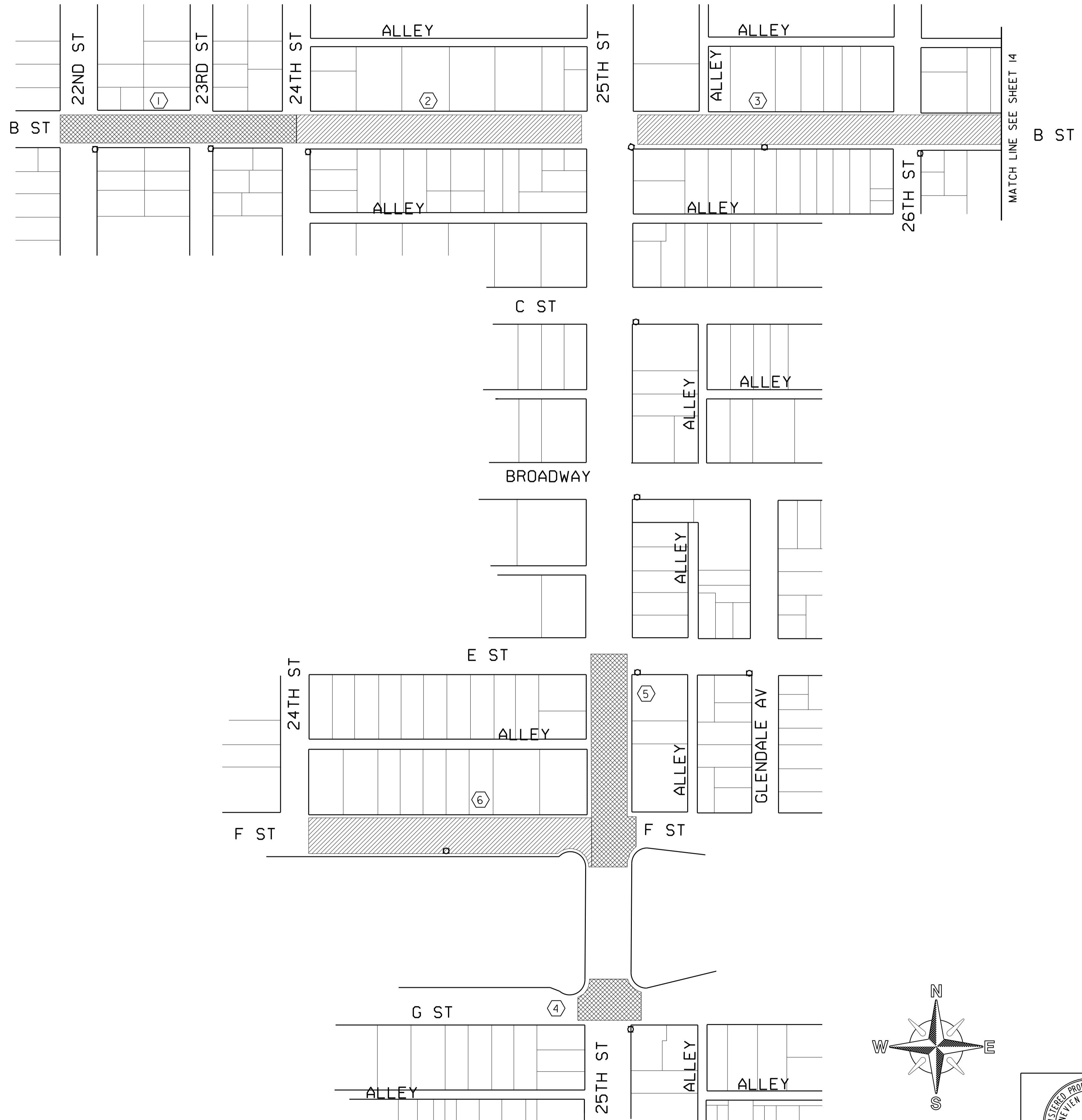


WATER GROUP 959 SR 94/25TH STREET OVERCROSSING F STREET TO G STREET MISCELLANEOUS DETAILS				WATER WBS B-11138 SEWER WBS NONE
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 14 OF 31 SHEETS				DATED BY LAILA NASRAWI ASSOCIATE ENGINEER
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6-25-13	CHIEF OF PROJECT ENGINEER: LOTOUS LENGUENYEN	PROJECT ENGINEER: 198-1725 CCS27 COORDINATE: 1840-6288 CCS83 COORDINATE: 36555-14-D	CONTRACTOR: _____ DATE STARTED: _____ INSPECTOR: _____ DATE COMPLETED: _____

SR 94/25TH STREET OVERCROSSING

LEGEND	
	APPROXIMATE LOCATION OF SLURRY SEAL RPMS
	APPROX. LIMITS OF RESURFACE AC OVERLAY
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
	COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-139

PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
①	B ST.	AC OVERLAY	1+00.00	5+61.50	53	24,459.50
②	B ST.	SLURRY SEAL RPMS	5+61.50	11+83.08	53	32,943.74
③	B ST.	SLURRY SEAL RPMS	13+00.00	21+00.00	53	42,400.00
④	25TH ST.	AC OVERLAY	1+00.00	2+00.00	60	6,000.00
⑤	25TH ST.	AC OVERLAY	4+50.00	8+59.77	60	24,586.20
⑥	F ST.	SLURRY SEAL RPMS	1+00.00	7+40.00	52	33,280.00
TOTAL AREA OF SLURRY SEAL						108,623.74 SF
TOTAL AREA OF RESURFACE AC						55,045.70 SF

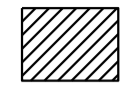
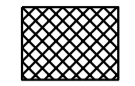



C-14

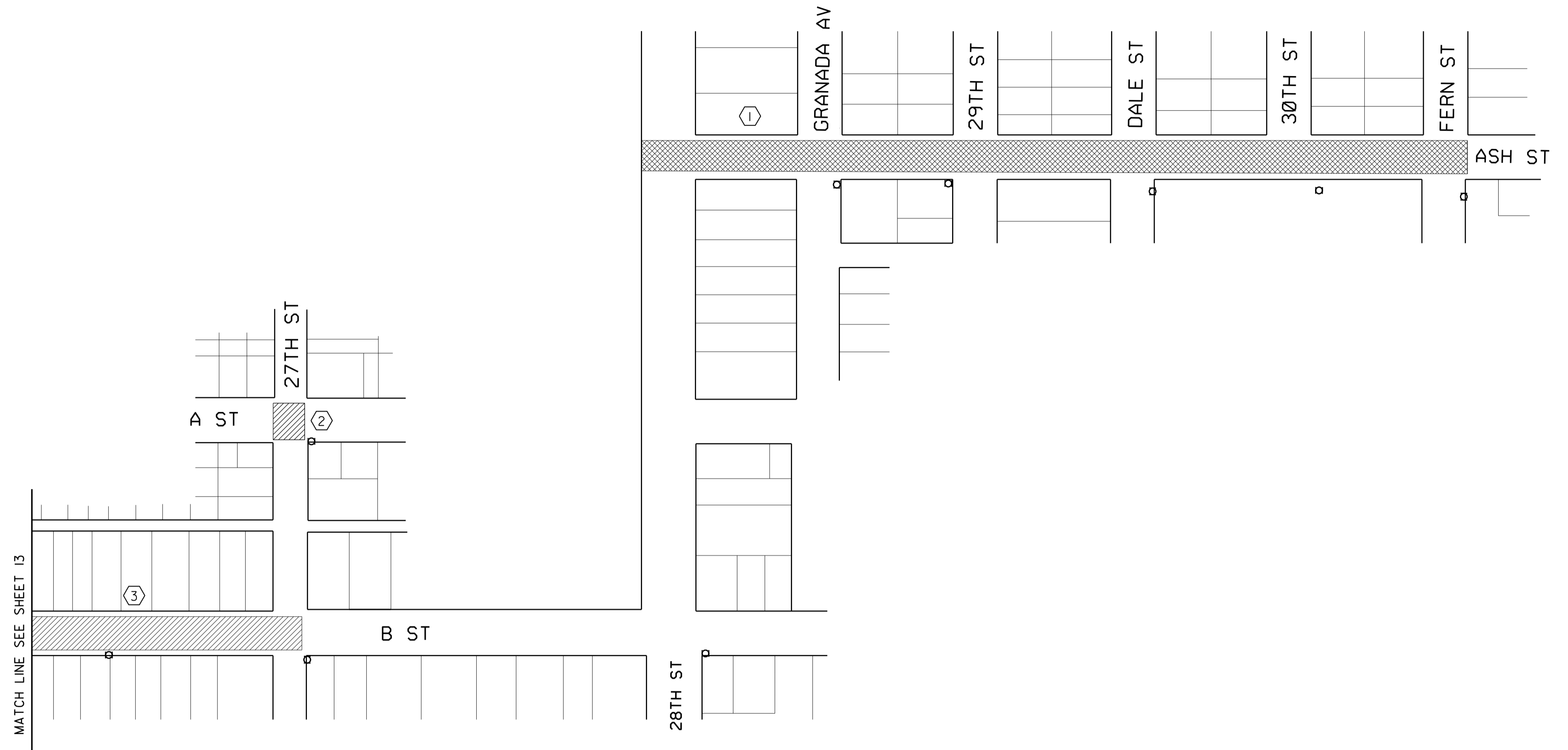
WATER GROUP JOB 959 STREET RESURFACING			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 15 OF 31 SHEETS		WATER WBS B1138	SEWER WBS
APPROVED FOR CITY ENGINEER <i>[Signature]</i>	DATE 2/11/13	SUBMITTED BY LAILA NASRAWI ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED	DATE FILMED
CHECKED BY LOTOSU LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		1842574-6291151 CCS83 COORDINATE	
		36555-15-D	



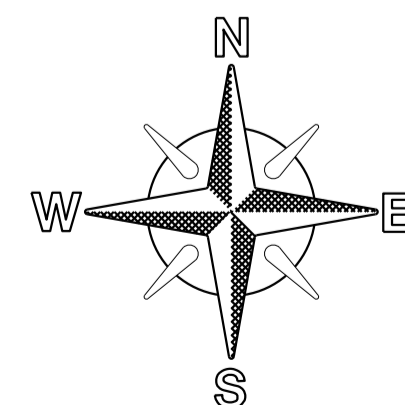
STREET RESURFACING

LEGEND	
	APPROXIMATE LOCATION OF SLURRY SEAL RPMS
	APPROX. LIMITS OF RESURFACE AC OVERLAY
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET) COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-139

PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
①	ASH ST.	AC OVERLAY	1+00.00	15+10.00	40	58,240.00
②	B ST.	SLURRY SEAL RPMS	21+00.00	25+44.54	52	23,116.08
③	27TH ST.	SLURRY SEAL RPMS	4+57.00	5+27.00	60	4,200
TOTAL AREA OF SLURRY SEAL						27,316.08 SF
TOTAL AREA OF RESURFACE AC						58,240.00 SF



C-15

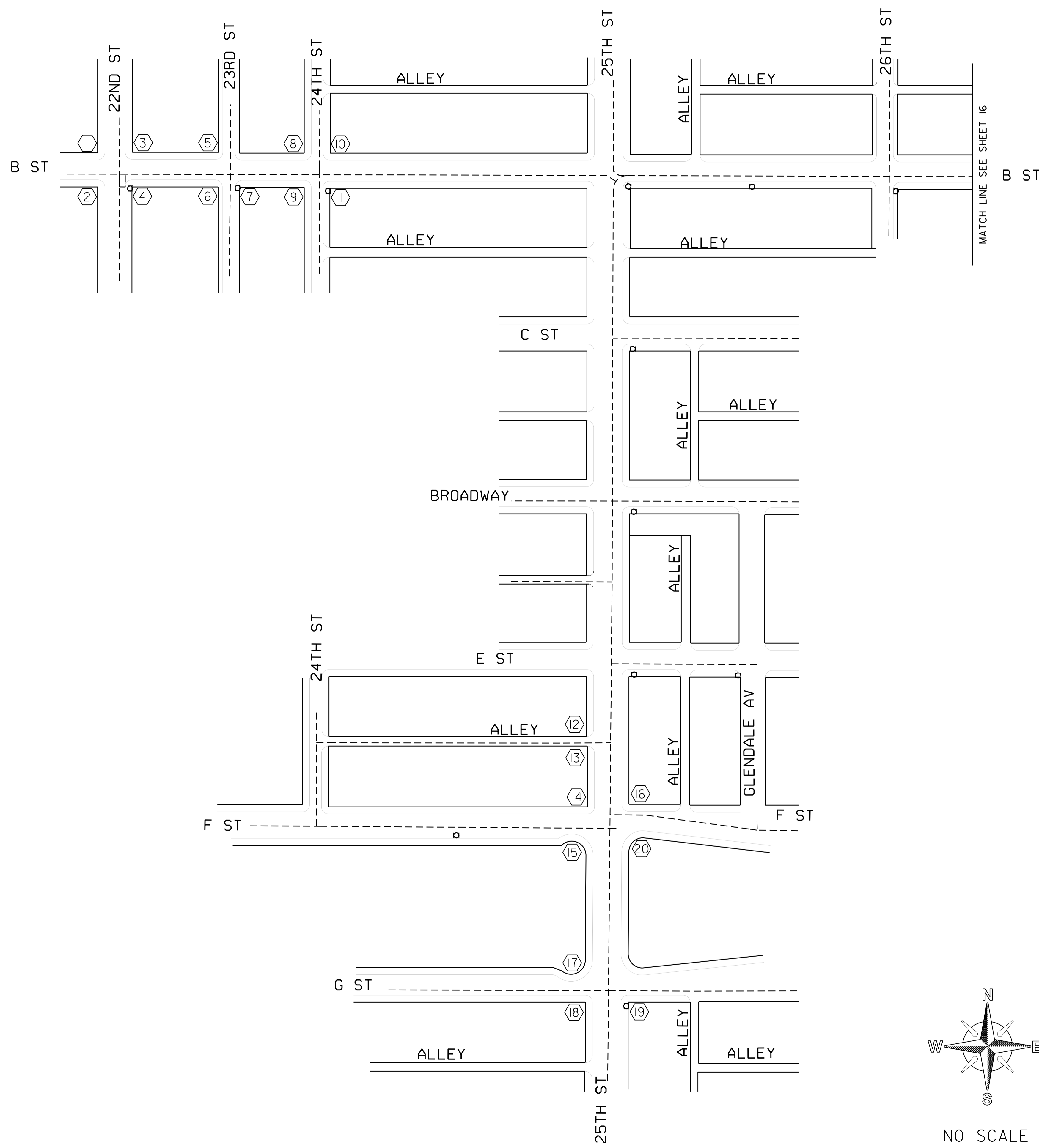


NO SCALE



CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 16 OF 31 SHEETS		WATER WBS B11138 SEWER WBS
APPROVED FOR CITY ENGINEER <i>[Signature]</i>	DATE 2/11/13	SUBMITTED BY LAILA NASRAWI ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY LL/EG	DATE
APPROVED	DATE	FILMED
CHECKED BY LOTOSU LENGUYEN PROJECT ENGINEER		200-1725 CCS27 COORDINATE
CONTRACTOR		1842574-6291151 CCS83 COORDINATE
INSPECTOR	DATE STARTED	DATE COMPLETED
		36555-16-D

STREET RESURFACING



CURB RAMP NOTES TABLE									
LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	TRUNCATED DOME MATERIAL		CONSTRAINTS	COMMENTS / MODIFICATIONS	
					• STAINLESS STEEL	• OTHER			
1	A		X				X		
2	A		X				X		
3	A		X				X		
4	A		X				X		
5	A		X				X		
6	A		X				X		
7	A		X				X		
8	A		X				X		
9	A		X				X		
10	A		X				X		
11	A		X				X		
12	D	X				X			
13	D	X				X			
14	A		X			X			
15	A		X			X			
16	A		X			X			6'-0" WIDE RAMP, CURB RAMP TO BE DIRECTIONAL TO THE NORTHWEST CORNER. MODIFIED CURB RAMP D (SEE SHEET 19 FOR DETAILS). INSTALL A PEDESTRIAN BARRICADE TO PREVENT CROSSING AT 25TH STREET. RESTRIPE THE CROSSWALK WITH 12" WHITE THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE. PROVIDE THE REQUIRED 48" MANUEVERING CLEARANCE.
17	D		X			X			
18	A		X			X			RESTRIPE THE CROSSWALK WITH 12" WHITE THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE. PROVIDE THE REQUIRED 48" MANUEVARING CLEARANCE.
19	D		X			X			MODIFIED CURB RAMP D (SEE SHEET 19 FOR DETAILS). RESTRIPE THE CROSSWALK WITH 12" WHITE THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE. PROVIDE THE REQUIRED 48" MANUEVERING CLEARANCE.
20									REMOVE THE EXISTING CURB RAMP AND REPLACE WITH STANDARD SIDEWALK, CURB AND GUTTER. COORDINATE THE REMOVAL WITH CALTRANS IF THIS IS WITHIN THEIR JURISDICTION.

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTE:
ENSURE THE CROSSWALKS ARE RESTRIPED WITH 12"-WIDE THERMOPLASTIC AND THE WIDTH IS NOT LESS THAN 10'-0". ALSO A 4'-0" MANUEVERING CLEARANCE IS REQUIRED IN THE FRONT OF EACH CURB RAMP.

NOTE:
CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

C-16

LEGEND

- CURB RAMP NO's
- EX UTILITY POLE
- EX FIRE HYDRANT
- EX STREET LIGHT
- T EX TREE
- † EX STREET SIGN
- EX CURB RAMP

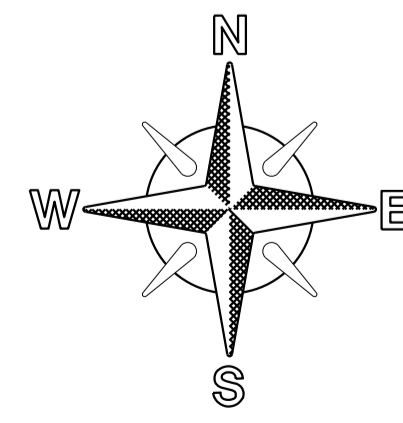
PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

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



WATER GTROUP JOB 959
CURB RAMP LOCATION

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 17 OF 31 SHEETS		WATER WBS BIII38
APPROVED FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 2/11/13	DRAWN BY: LAILA NASRAWI, ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: LL/EG	CHECKED BY: LOTOUS LENGUYEN, PROJECT ENGINEER
		200-1725 CCS27 COORDINATE
		1842574-6291151 CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36555-17-D
INSPECTOR: _____	DATE COMPLETED: _____	



NO SCALE

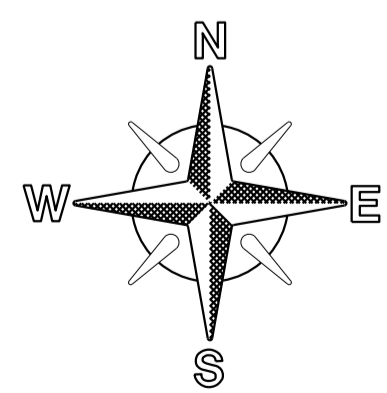
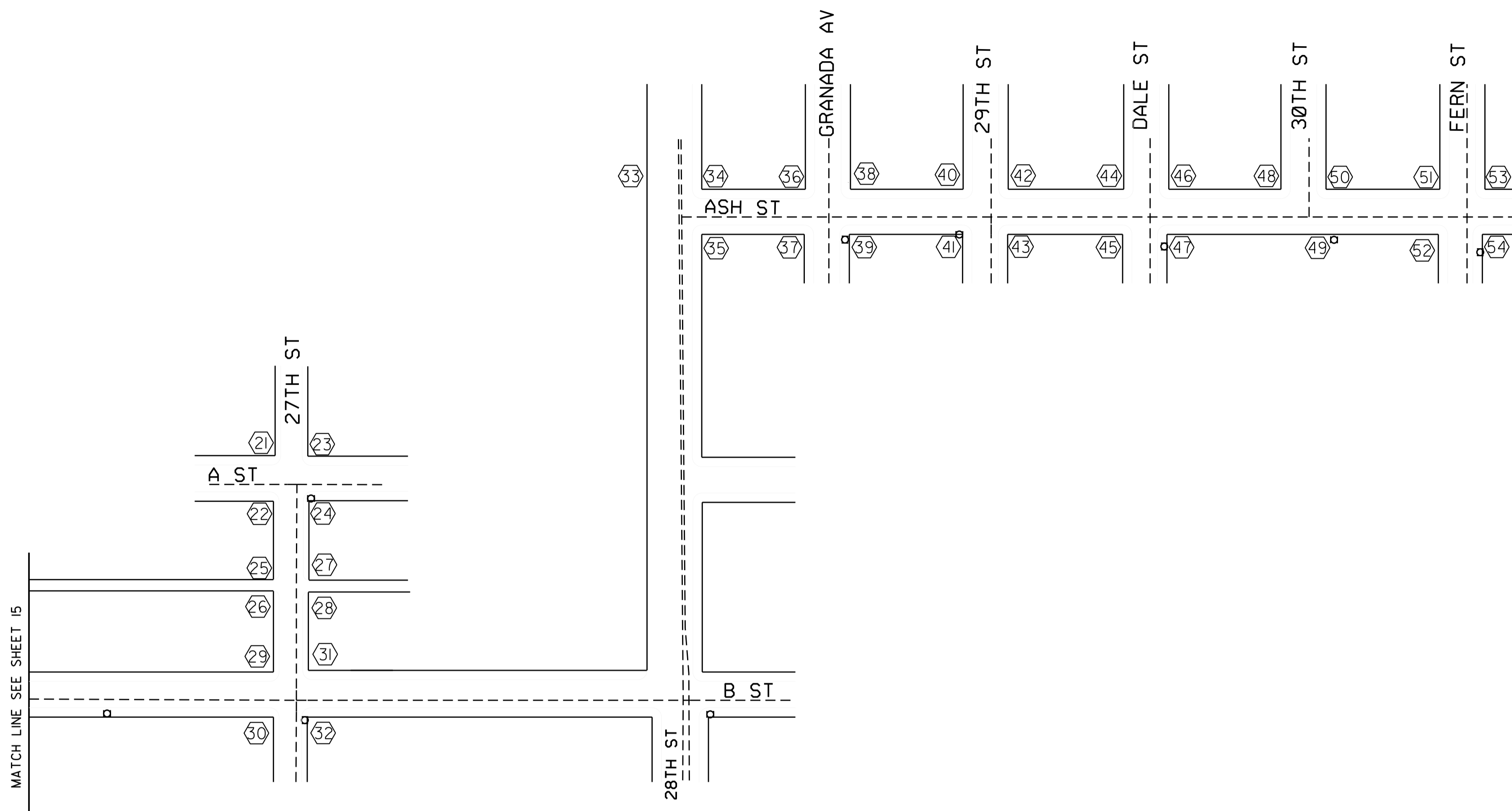
CURB RAMP LOCATION

CURB RAMP NOTES TABLE									
LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	TRUNCATED DOME MATERIAL		CONSTRAINTS	COMMENTS / MODIFICATIONS	
					STAINLESS STEEL	OTHER			
21	A		X			X			
22	A		X			X			
23	A		X			X			
24	A		X			X			SIDE WALK MUST USE THE SAME COLOR AND FINISH AS THE ADJACENT COLORED CONCRETE
25	D		X			X			
26	D		X			X			
27	D	X				X			
28	D	X				X			
29	C	X				X			
30	C	X				X			ENSURE THE EXISTING UTILITY BOX IN FRONT OF THE CURB RAMP BE MADE FLUSH WITH THE STREET SURFACE. REPAIR DAMAGED LID AND CURB IF NECESSARY.
31	C	X				X			
32	A	X				X			REPLACE THE DRAIN INLET COVER WITH COMPLIANT GRATE. V (SEE SHEET 19 FOR DETAIL).
33	B	X			X				CONNECT THE CURB RAMP TO THE EXISTING PARK SIDEWALK. ENSURE THE CONNECTION IS AT LEAST 48" WIDE WITH A CROSS SLOPE OF 1.5% AND RUNNING SLOPE NOT TO EXCEED 5.0%.
34	A		X		X				
35	A		X		X				
36	A	X			X				
37	A	X				X			
38	A	X				X			
39	A	X				X			
40	A		X			X			
41	A		X			X			
42	A		X			X			
43	A		X			X			
44	A		X		X				RESTRIPE THE SCHOOL CROSSWALK WITH 12" THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE.
45	A		X		X				RESTRIPE THE SCHOOL CROSSWALK WITH 12" THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE.
46	A		X		X				RESTRIPE THE SCHOOL CROSSWALK WITH 12" THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE.
47	A		X		X				RESTRIPE THE SCHOOL CROSSWALK WITH 12" THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE.
48	A		X		X				USE 12" WIDE THERMOPLASTIC AND ENSURE THAT THE WIDTH IS NOT LESS THAN 10'-0".
49	B		X		X				USE 12" WIDE THERMOPLASTIC AND ENSURE THAT THE WIDTH IS NOT LESS THAN 10'-0".
50	A		X		X				USE 12" WIDE THERMOPLASTIC AND ENSURE THAT THE WIDTH IS NOT LESS THAN 10'-0".
									PROVIDE THE REQUIRED 48" CLEAR MANEUVERING CLEARANCE AT THE AREA WHERE TWO CROSSWALK MEET.
51	A		X		X				RESTRIPE THE SCHOOL CROSSWALK WITH 12" YELLOW THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE. PROVIDE THE REQUIRED 48" MANUEVERING CLEARANCE AT THE BOTTOM OF CURB RAMP.
52	A		X		X				REDUCE THE TWO CURB RAMP WITH A SINGLE TYPE A CURB RAMP AND REALIGN THE CROSSWALK. RESTRIPE THE SCHOOL CROSSWALK WITH 12" YELLOW THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE. PROVIDE THE REQUIRED 48" CLEAR MANUEVERING CLEARANCE AT THE AREA WHERE THE TWO CROSSWALK MEET. (SEE SHEET 19 FOR DETAIL)
53	A		X		X				RESTRIPE THE SCHOOL CROSSWALK WITH 12" YELLOW THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE. PROVIDE THE REQUIRED 48" MANUEVERING CLEARANCE AT THE BOTTOM OF CURB RAMP.
54	A		X		X				RESTRIPE THE SCHOOL CROSSWALK WITH 12" YELLOW THERMOPLASTIC. CROSSWALK IS NOT LESS THAN 10'-0" WIDE. PROVIDE THE REQUIRED 48" MANUEVERING CLEARANCE AT THE BOTTOM OF CURB RAMP.

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

NOTE:
ENSURE THE CROSSWALKS ARE RESTRIPE WITH 12"-WIDE THERMOPLASTIC AND THE WIDTH IS NOT LESS THAN 10'-0". ALSO A 4'-0" MANUEVERING CLEARANCE IS REQUIRED IN THE FRONT OF EACH CURB RAMP.

NOTE:
CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



NO SCALE

LEGEND			
(8)	CURB RAMP NO's		
•	EX UTILITY POLE		
○	EX FIRE HYDRANT		
◊	EX STREET LIGHT		
T	EX TREE		
+	EX STREET SIGN		
□	EX CURB RAMP		

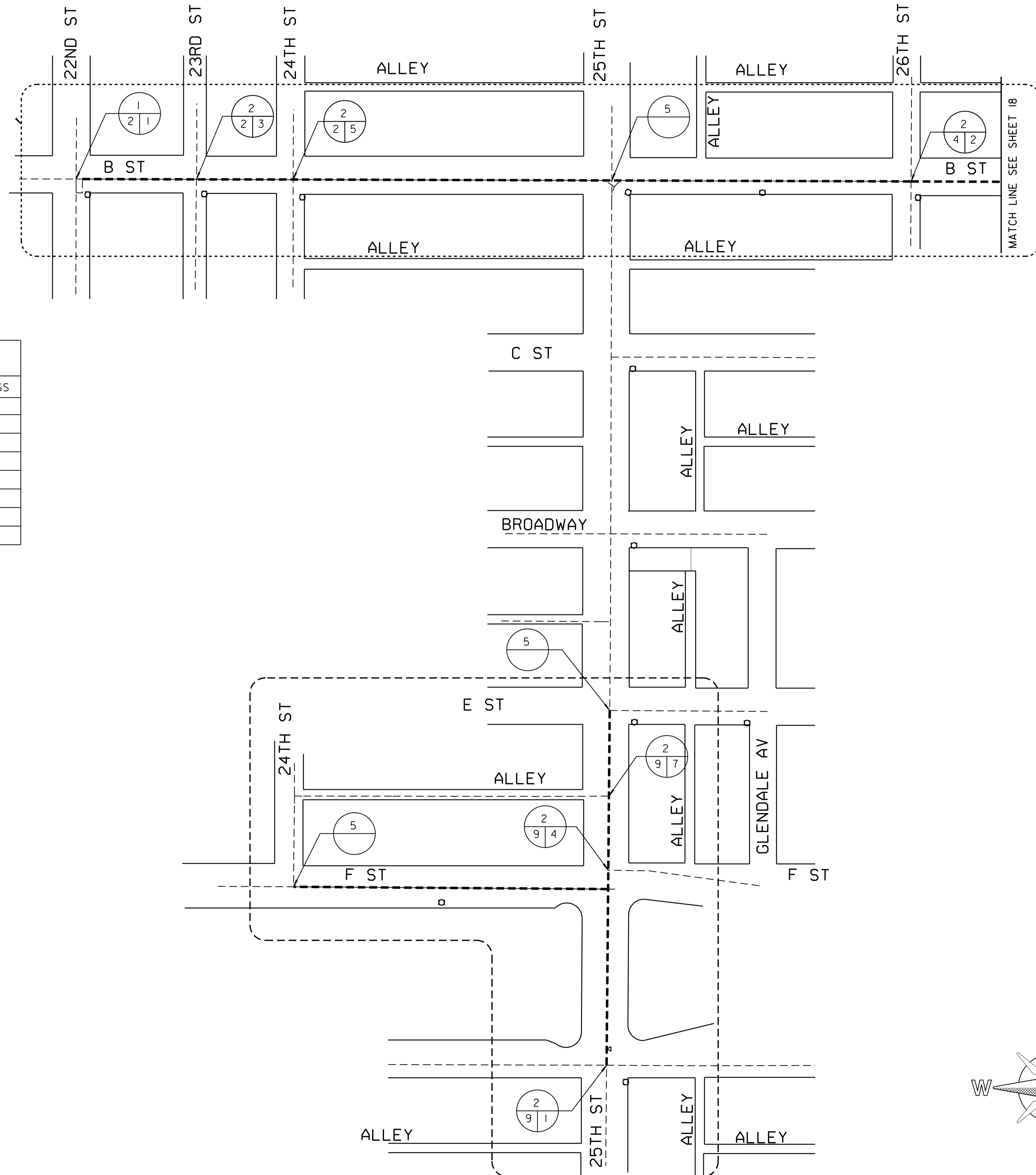
PROPOSED CURB RAMP PER STANDARD DRAWINGS:			
A & B	SDG-132		
C1	SDG-134		
C2	SDG-135		
D	SDG-136		
TRUNCATED DOMES	SDG-130		
CURB RAMP DETAILS	SDG-137		
EX STAMP/IMPRESSION PLACEMENT	SDG-115		
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138		

WATER GROUP JOB 959			
CURB RAMP LOCATION			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 18 OF 31 SHEETS			WATER WBS: B11138 SEWER WBS:
APPROVED FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 2/11/13	SUBMITTED BY: LAILA NASRAWI, ASSOCIATE ENGINEER	
DESCRIPTION: ORIGINAL	BY: LL/EG	APPROVED:	DATE: FILMED:
DRAWN BY: LOTOUS LENGUYEN, PROJECT ENGINEER			200-1725, CCS27 COORDINATE
CONTRACTOR: _____			DATE STARTED: _____
INSPECTOR: _____			DATE COMPLETED: _____
			1842574-6291151, CCS83 COORDINATE
			36555-18-D

C-17

CURB RAMP LOCATION

WORK BY CITY FORCES OR CONTRACTOR



LEGEND

- EXISTING WATER MAIN
- PRESSURE ZONE BOUNDARY
- PROPOSED WATER MAIN
- FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- ⊗ FIRE HYDRANT TO BE REPLACED
- ① CITY FORCES NOTE NUMBER (THIS SHEET)
- ② CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)
- ③ PLAN & PROFILE "D" SHEET NUMBER

BC --- BEFORE CONTRACTOR
AC --- AFTER CONTRACTOR

WORK BY CITY FORCES

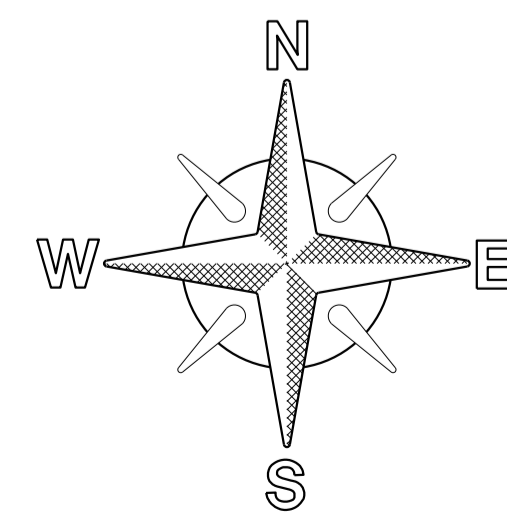
- ① BC - TEE/CROSS CUT-IN, OPEN/CLOSE VALVE(S)
AC - RECONNECT, OPEN VALVE(S)
- ② BC - CUT & PLUG
AC - RECONNECT
- ③ BC - CUT AND ABANDON
- ④ AC - WET TAP
- ⑤ BC - CLOSE EX. VALVE (REPLACE IF NEEDED)
AC - OPEN EX. VALVE

AREA TO BE HIGHLINED IN PHASES

- ⊂ PHASE 1
- ⊂ PHASE 2
- ⊂ PHASE 3

FOR THE CITY FORCES			
SHT	12" VALVE	12"x8" REDUCER	
2	2	1	
10	1	1	

CONTRACTOR FURNISHED MATERIALS FOR CITY FORCE WORK				
SHT	16"x12" TEE	16" BF VALVE	16" PIPE LF	16"x12" CROSS
2		2		1
3			20	
10	1	2		1



NO SCALE



WATER GROUP JOB 959	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 19 OF 31 SHEETS	WATER W.O. BIII38 SEWER W.O. _____
APPROVED: <i>[Signature]</i> DEPUTY DIRECTOR	DATE: 2/11/13 SECTION HEAD
DEPUTY DIRECTOR	SECTION HEAD
DESCRIPTION ORIGINAL	CHECKED BY: LOTOUS LENGUYEN ASSOCIATE ENGINEER
BY: LL/EG	200-1725 CCS27 COORDINATE
APPROVED: _____	1842574-6291151 CCS83 COORDINATE
DATE STARTED: _____	CONTRACTOR: _____
DATE COMPLETED: _____	INSPECTOR: _____
	36555-19-D

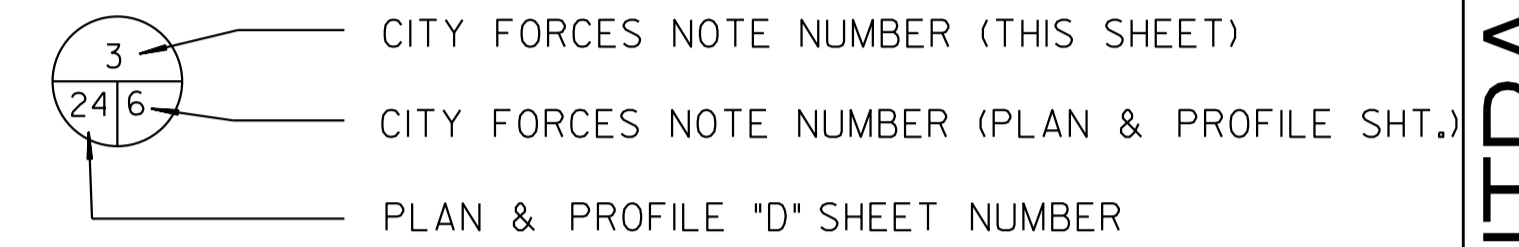
C-18

WORK BY CITY FORCES OR CONTRACTOR

WORK BY CITY FORCES OR CONTRACTOR

LEGEND

- EXISTING WATER MAIN
- PRESSURE ZONE BOUNDARY
- PROPOSED WATER MAIN
- FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- ◻ FIRE HYDRANT TO BE REPLACED



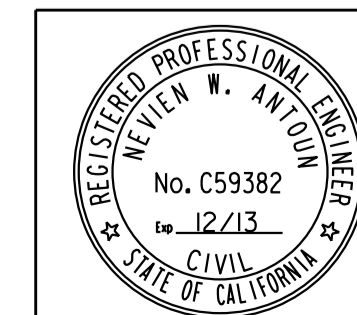
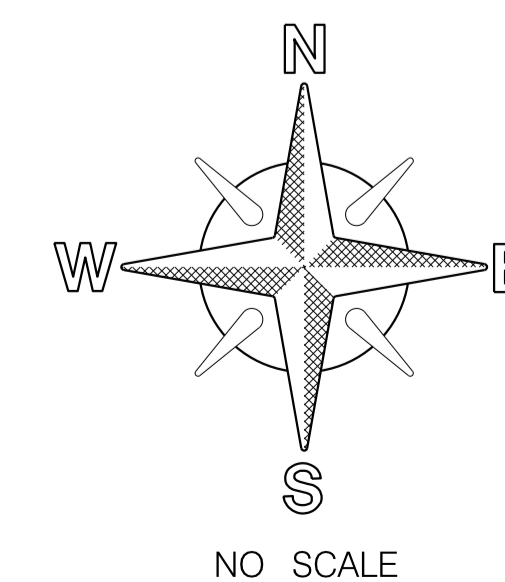
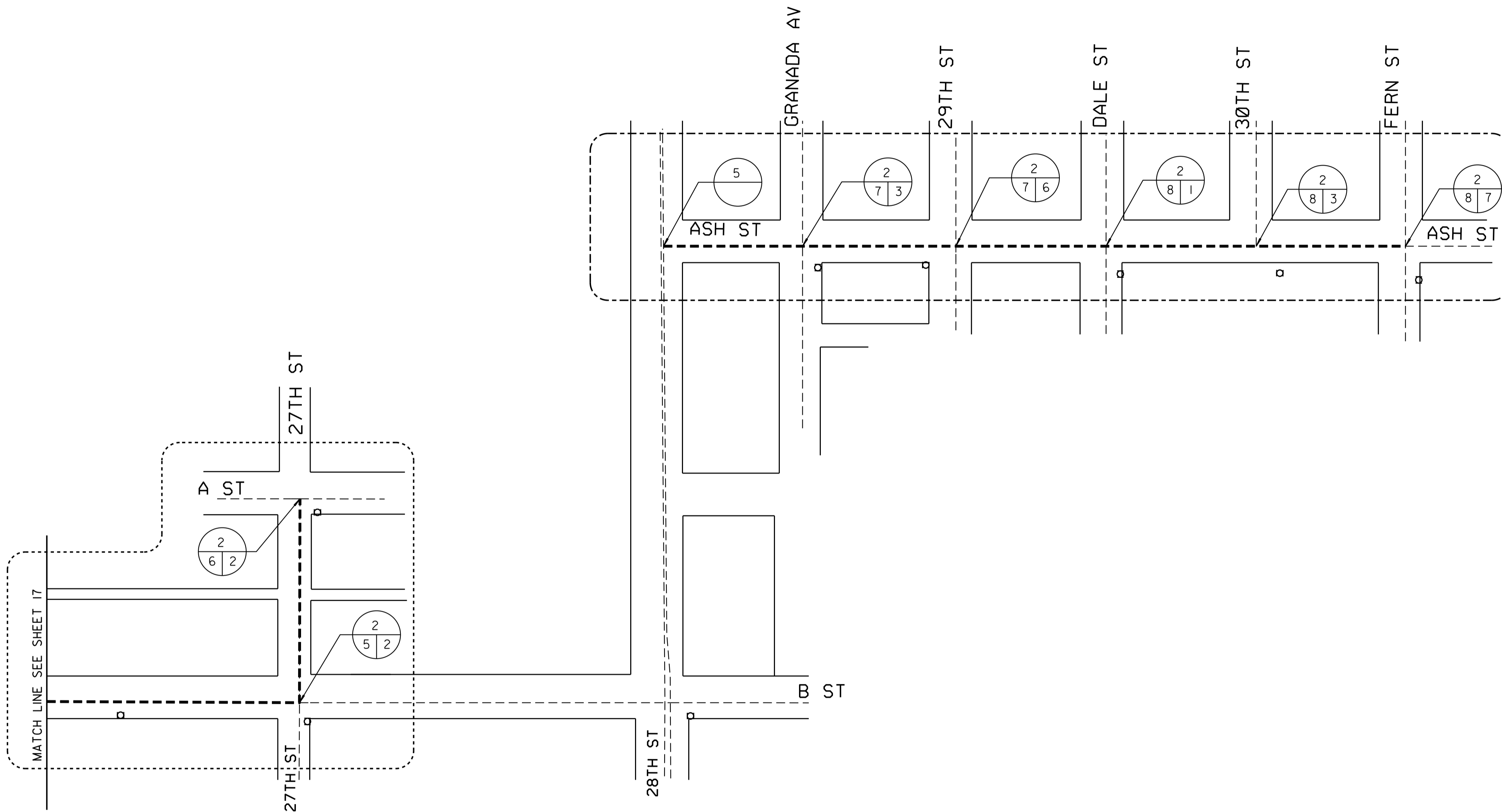
- BC --- BEFORE CONTRACTOR
- AC --- AFTER CONTRACTOR

WORK BY CITY FORCES

- 1 BC - TEE/CROSS CUT-IN, OPEN/CLOSE VALVE(S)
AC - RECONNECT, OPEN VALVE(S)
- 2 BC - CUT & PLUG
AC - RECONNECT
- 3 BC - CUT AND ABANDON
- 4 AC - WET TAP
- 5 BC - CLOSE EX. VALVE (REPLACE IF NEEDED)
AC - OPEN EX. VALVE

AREA TO BE HIGHLINED IN PHASES

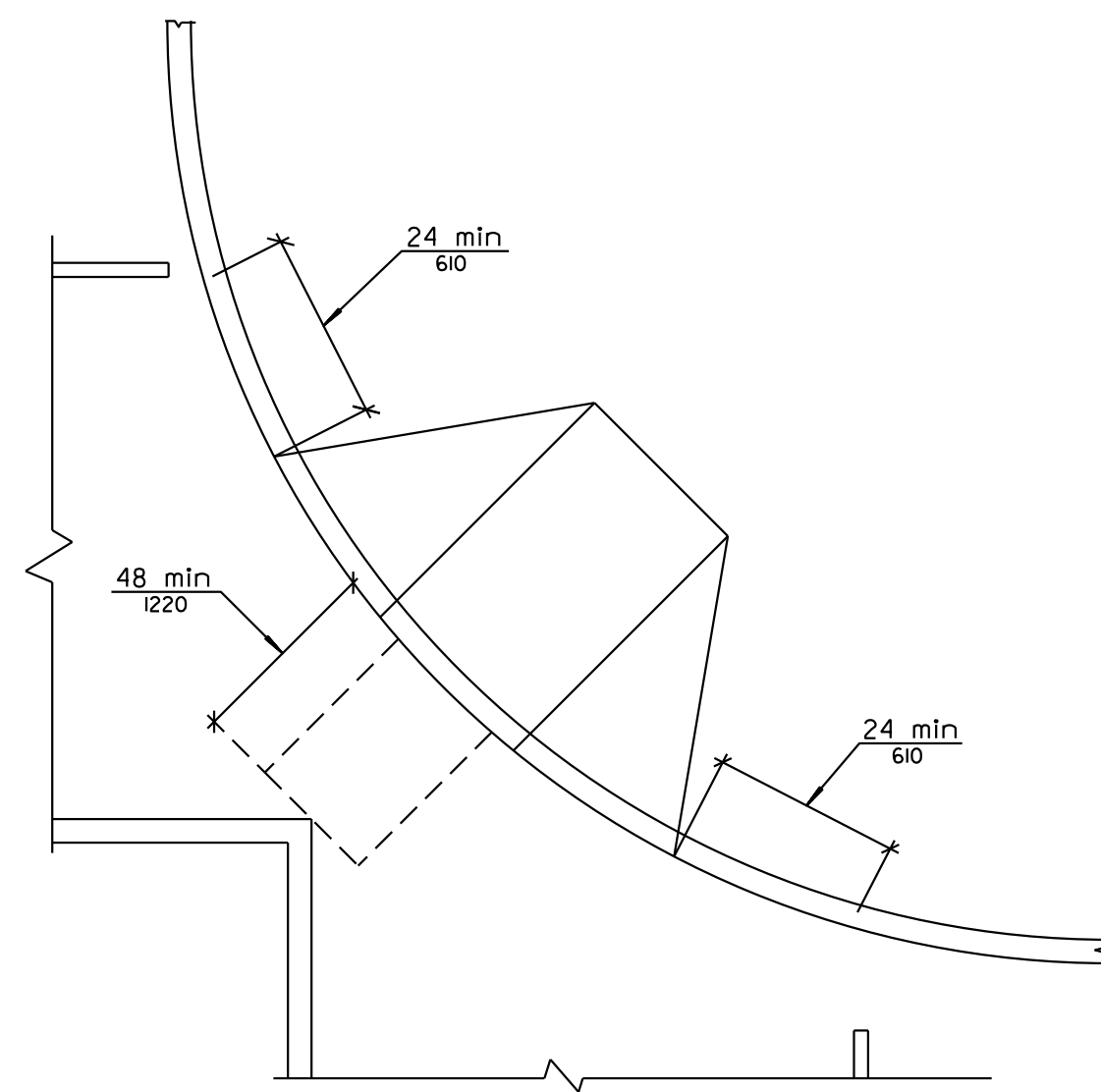
- Phase 1 (dashed box)
- Phase 2 (dashed box)
- Phase 3 (dashed box)



WATER G TROUP JOB 959				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 20 OF 31 SHEETS			WATER W.O. BIII38	SEWER W.O.
APPROVED: DEPUTY DIRECTOR	<i>Nasrawi</i>	DATE 2/11/13	SUBMITTED BY: SECTION HEAD LAILA NASRAWI	
DESCRIPTION ORIGINAL	BY LL/EG	APPROVED	DATE	FILMED
CHECKED BY: ASSOCIATE ENGINEER LOTOUS LENGUYEN			200-1725 CCS27 COORDINATE	
CONTRACTOR			DATE STARTED	1842574-6291151 CCS83 COORDINATE
INSPECTOR			DATE COMPLETED	36555-20-D

C-19

WORK BY CITY FORCES OR CONTRACTOR



2010 ADA Accessible Standards Section 406.6 Diagonal curb ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48" minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48" minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24" long minimum located on each side of the curb ramp and within the marked crossing.

FIGURE 406.6 TYPICAL CROSSWALK MARKING AT CURB RAMP
Not To Scale

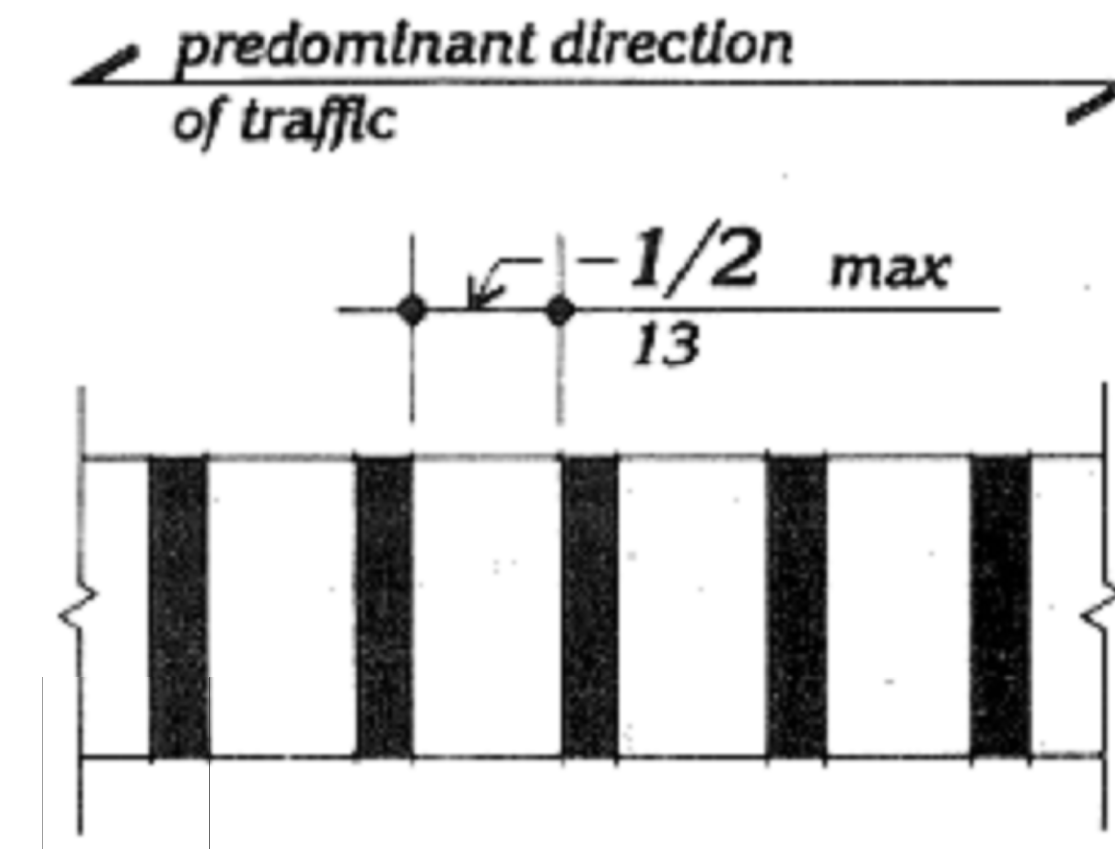


Figure 8G
Gratings

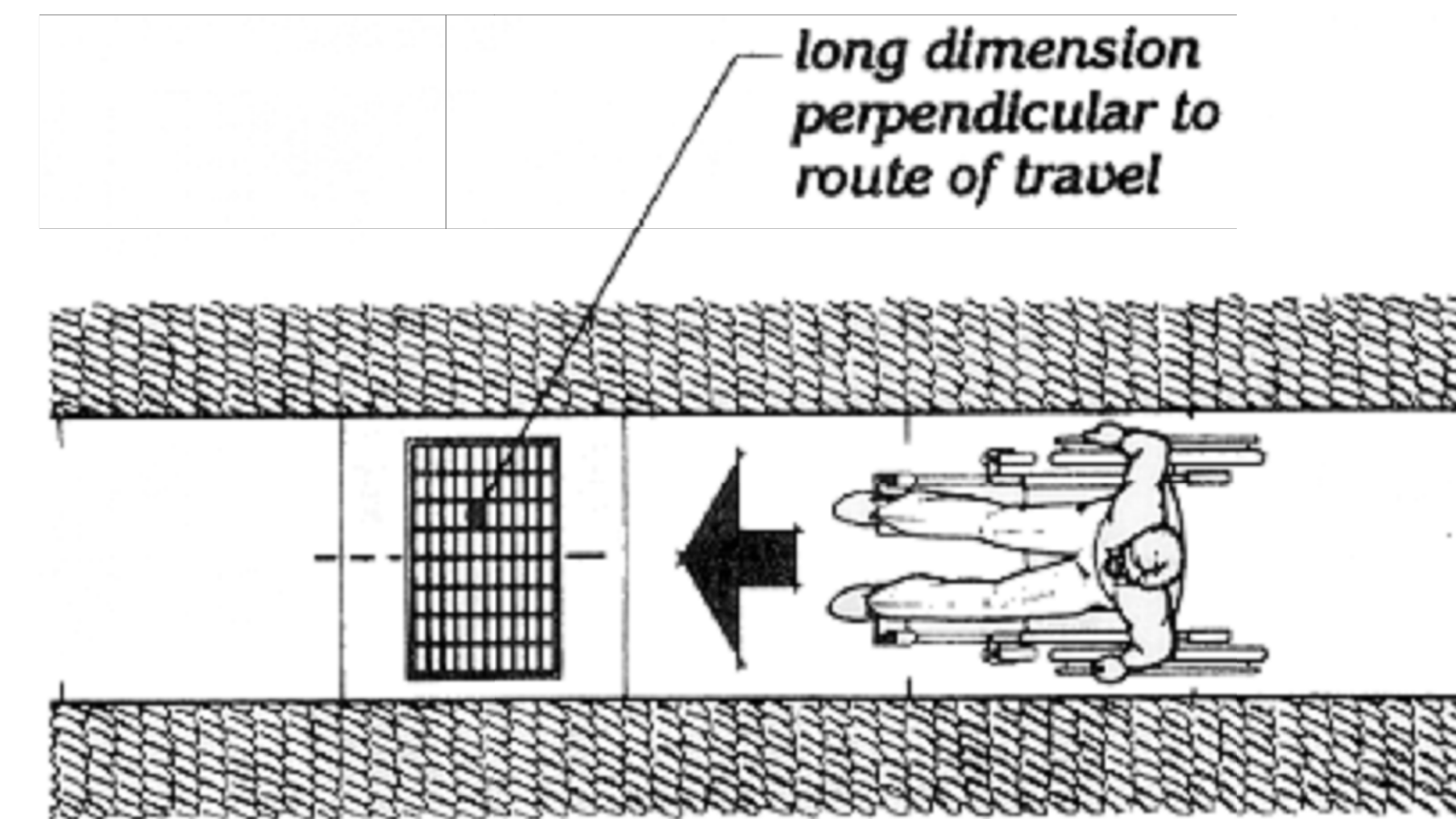
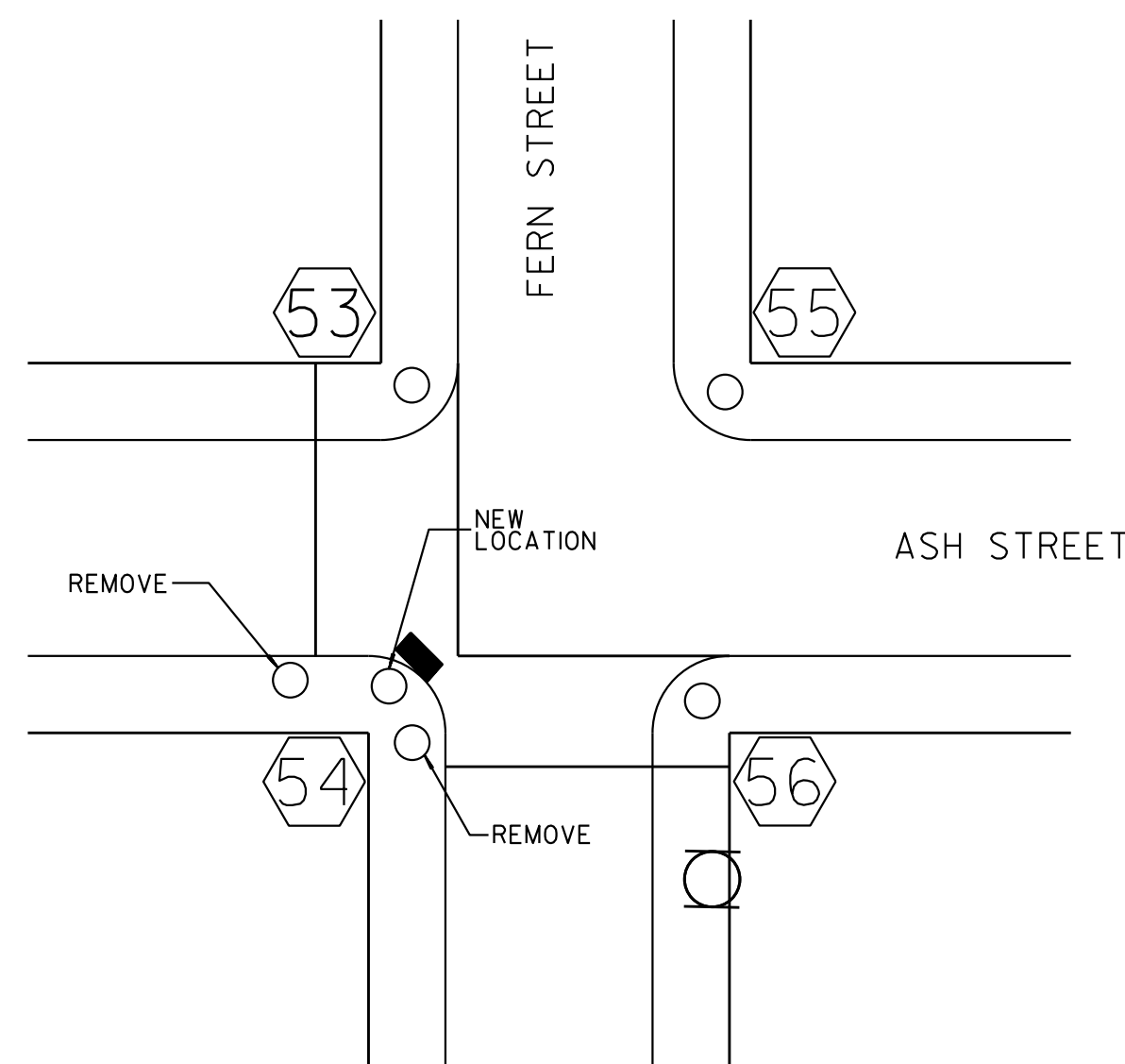


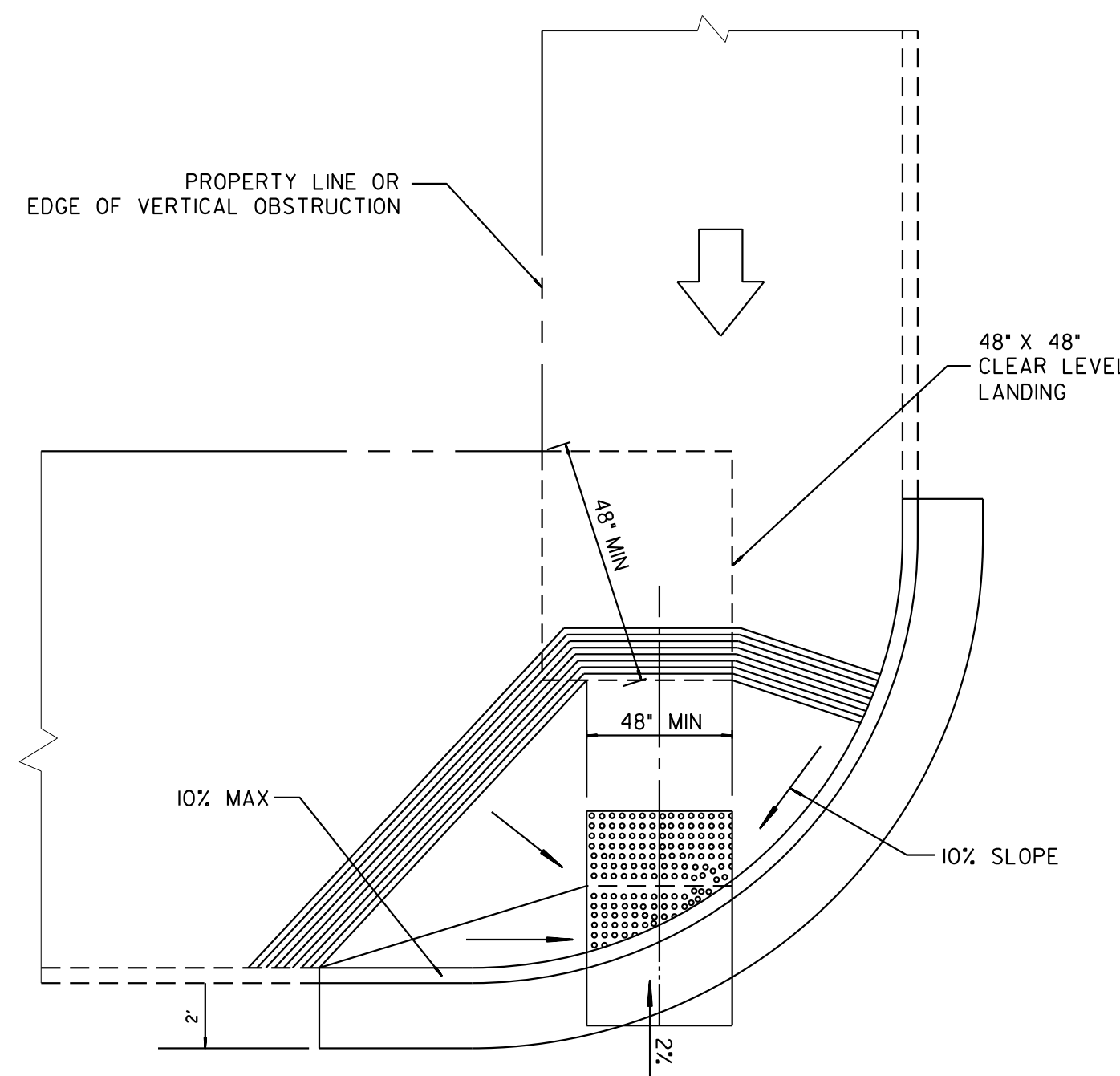
Figure 8h
Gratings Orientation

Gratings. Grates shall have spaces no greater than 1/2 in wide in one direction (Fig. 8(g)). If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel (Fig. 8(h)).

Grate Detail
Not To Scale



FERN AND ASH STREET
Not To Scale



MODIFIED CURB RAMP D
Not To Scale

C-20

PLANS FOR THE CONSTRUCTION OF
WATER GROUP JOB 959
CURB RAMP DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 21 OF 31 SHEETS

APPROVED: *[Signature]* 2/11/13 DATE
FOR CITY ENGINEER

DESIGNED BY: LAILA NASRAWI
ASSOCIATE ENGINEER

CHECKED BY: LOTOUS LENGUYEN
PROJECT ENGINEER

200-1725
CCS27 COORDINATE

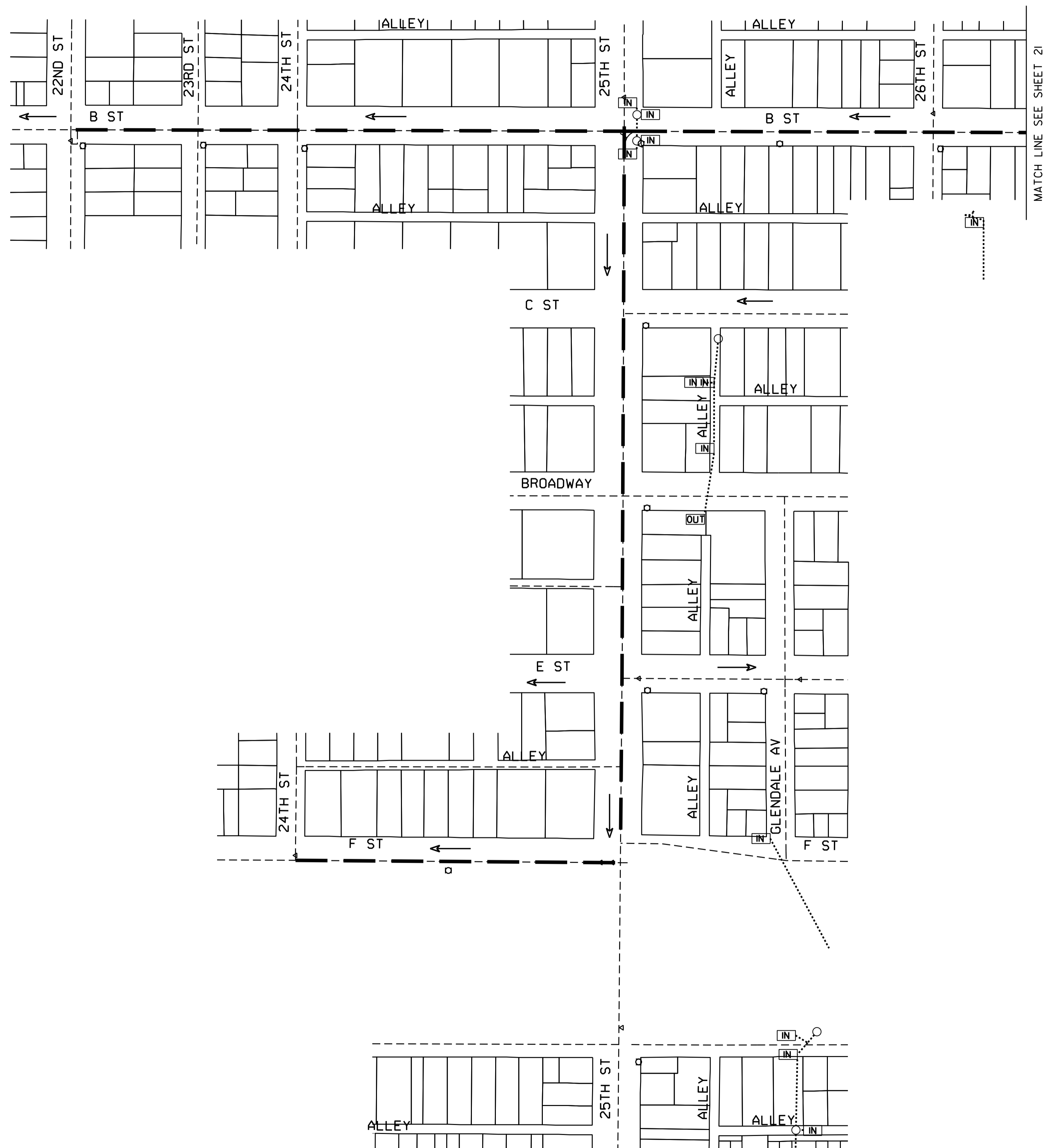
1842574-6291151
CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

36555-21-D



CURB RAMP DETAILS



MATCH LINE - SEE SHEET 21

NOTES:

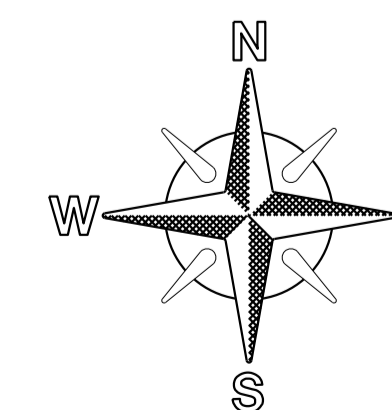
THE INFORMATION ON THIS SITE PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTOR TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE PROJECT SITE, THIS SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER INLET PROTECTION REQUIRED AT ALL STORM DRAINS RECEIVING RUNOFF FROM DISTURBED. THE INFORMATION ON THE SITE PLAN IS ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.

LEGEND

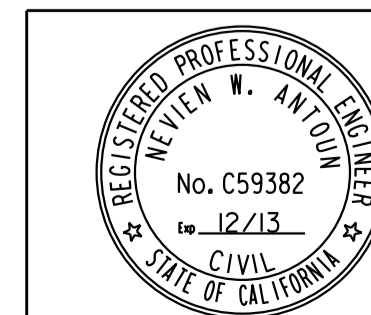
SURFACE FLOW TO STORM DRAIN	▲
STORM DRAINS AFFECTED BY CONSTRUCTION	○
NEW SEWER MAIN	—
SHEET NO's	○
PAPER STREET	⋯
ADDITIONAL NOTES SUPPLIED BY CONTRACTOR	
STAGING/STOCKPILE AREA	X

C-21

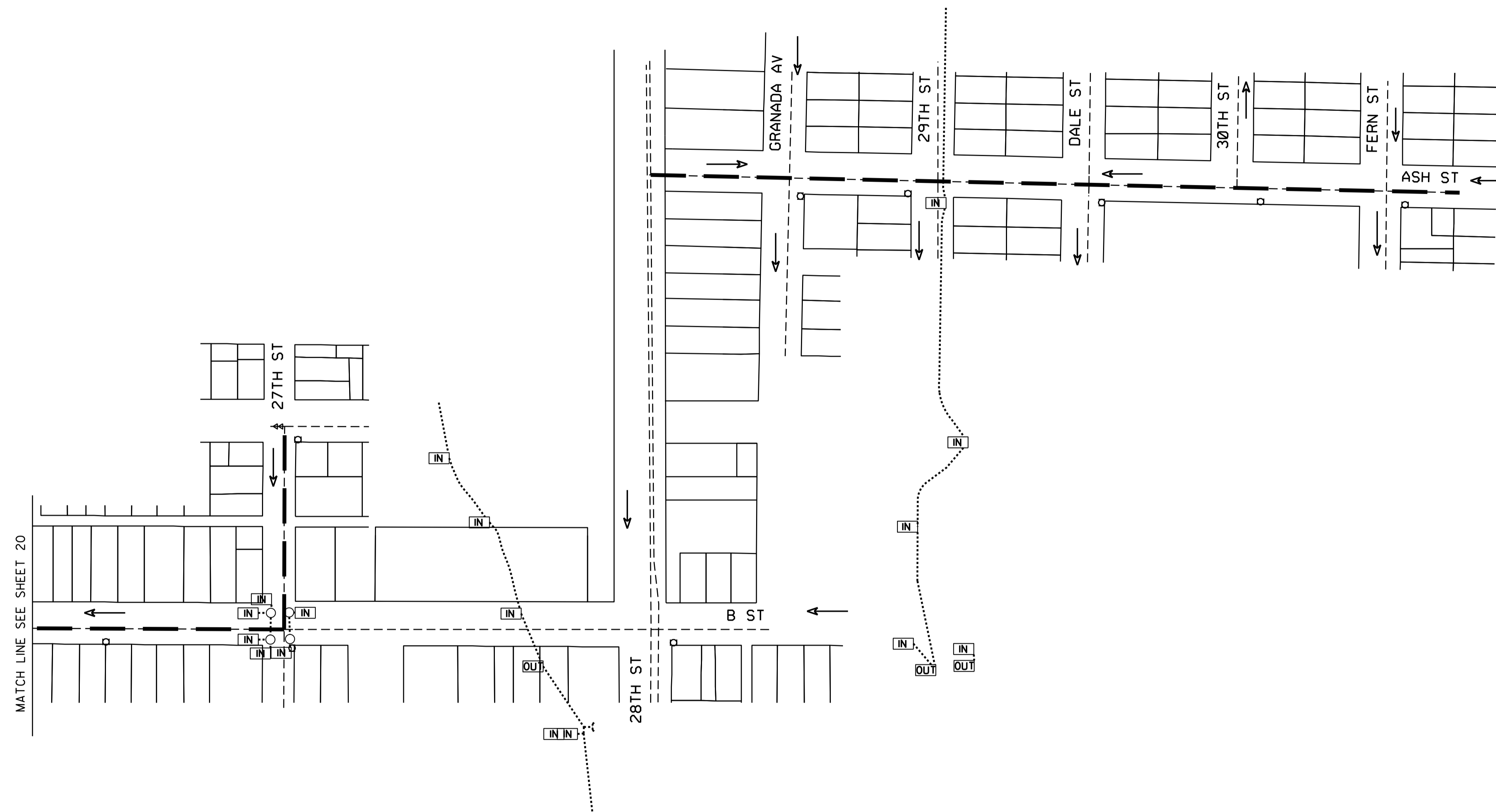
NOTE:
THIS SHEET IS USED FOR PROJECTS WITH LESS THAN ONE (1) ACRE IN DISTURBED SOIL AREAS.



NO SCALE



WATER GROUP JOB 959 WATER POLLUTION CONTROL SITE PLAN	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 22 OF 31 SHEETS	WATER WBS B11138 SEWER WBS
APPROVED FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 2/11/13
DESIGNED BY: LAILA NASRAWI ASSOCIATE ENGINEER	CHECKED BY: LOTOUS LENGUYEN PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY LL/EG
APPROVED	DATE
FILMED	
200-1725 CCS27 COORDINATE	
1842574-6291151 CCS83 COORDINATE	
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
36555-22-D	



NOTES:

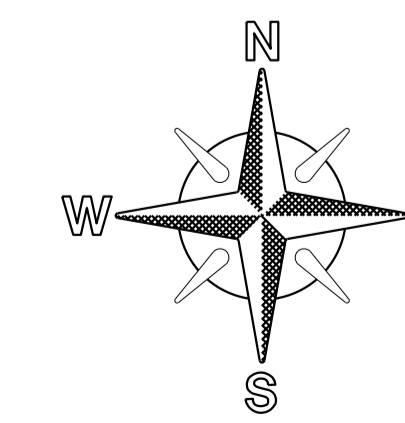
THE INFORMATION ON THIS SITE PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTOR TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE PROJECT SITE, THIS SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER INLET PROTECTION REQUIRED AT ALL STORM DRAINS RECEIVING RUNOFF FROM DISTURBED, THE INFORMATION ON THE SITE PLAN IS ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.

LEGEND

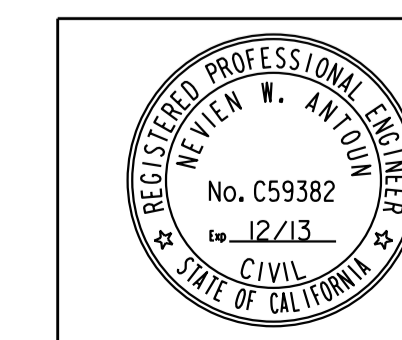
SURFACE FLOW TO STORM DRAIN ARROWS	
STORM DRAINS AFFECTED BY CONSTRUCTION	
NEW SEWER MAIN	
SHEET NO's	
PAPER STREET	
ADDITIONAL NOTES SUPPLIED BY CONTRACTOR	
STAGING/STOCKPILE AREA	

C-22

NOTE:
THIS SHEET IS USED FOR PROJECTS WITH LESS THAN ONE (1) ACRE IN DISTURBED SOIL AREAS.



NO SCALE



WATER GROUP JOB 959 WATER POLLUTION CONTROL SITE PLAN	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 23 OF 31 SHEETS	WATER WBS B1138 SEWER WBS
APPROVED FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 2/11/13
DESIGNED BY: LAILA NASRAWI ASSOCIATE ENGINEER	CHECKED BY: LOTOUS LENGUYEN PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY LL/EG
APPROVED	DATE
FILMED	
CONTRACTOR _____ DATE STARTED _____	
INSPECTOR _____ DATE COMPLETED _____	
36555-23-D	

THRUST BLOCK TABLE

Pipe Diameter	Fitting Type	Fitting Size	Area (T/P) ft ^2	YD ^3
16"	TEES	16" X 16"	55.88	4
		16" X 12"	55.88	2
		16" X 8"	55.88	1
		16" X 6"	55.88	1
16"	90 Degree Bend		79.03	6
16"	45 Degree Bend		42.77	3
16"	22.5 Degree Bend		21.80	2
16"	11.25 Degree Bend		10.95	1
16"	Reducer	16" x 12"	23.72	2
16"		16" x 8"	40.76	3
16"	Cross	16" x 16"	79.03	6
16"		16" x 12"	45.48	3
16"		16" x 8"	21.38	2
16"		16" x 6"	12.43	1

- Design based on SoilBearing pressure of 1,500 psf and Pipe pressure of 235 psi
- Refer to SDW-151, Dimension B is equal to 22 inches.
- Refer to Sect. 306-1.2.14 of the Whitebook

C-23

WATER GTRoup JOB 959

THRUST BLOCK TABLE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 24 OF 31 SHEETS

WATER WBS B11138
SEWER WBS

APPROVED: *[Signature]* 2/11/13
FOR CITY ENGINEER DATE

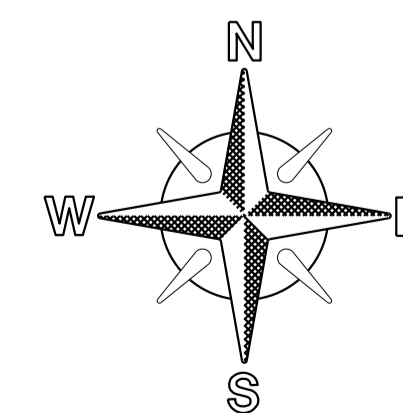
SUBMITTED BY: LAILA NASRAWI
ASSOCIATE ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LL/EG			

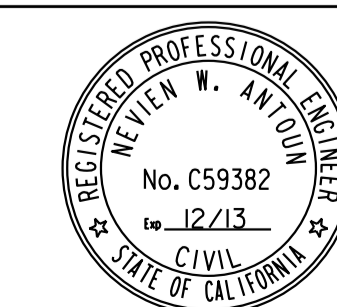
CHECKED BY: LOTOUS LENGUYEN
PROJECT ENGINEER
200-1725
CCS27 COORDINATE
1842574-6291151
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36555-24-D



NO SCALE



TRAFFIC CONTROL NOTES (STREETS WITH ADT OF 5,000 AND OVER) (SHEETS 2 TO 7)

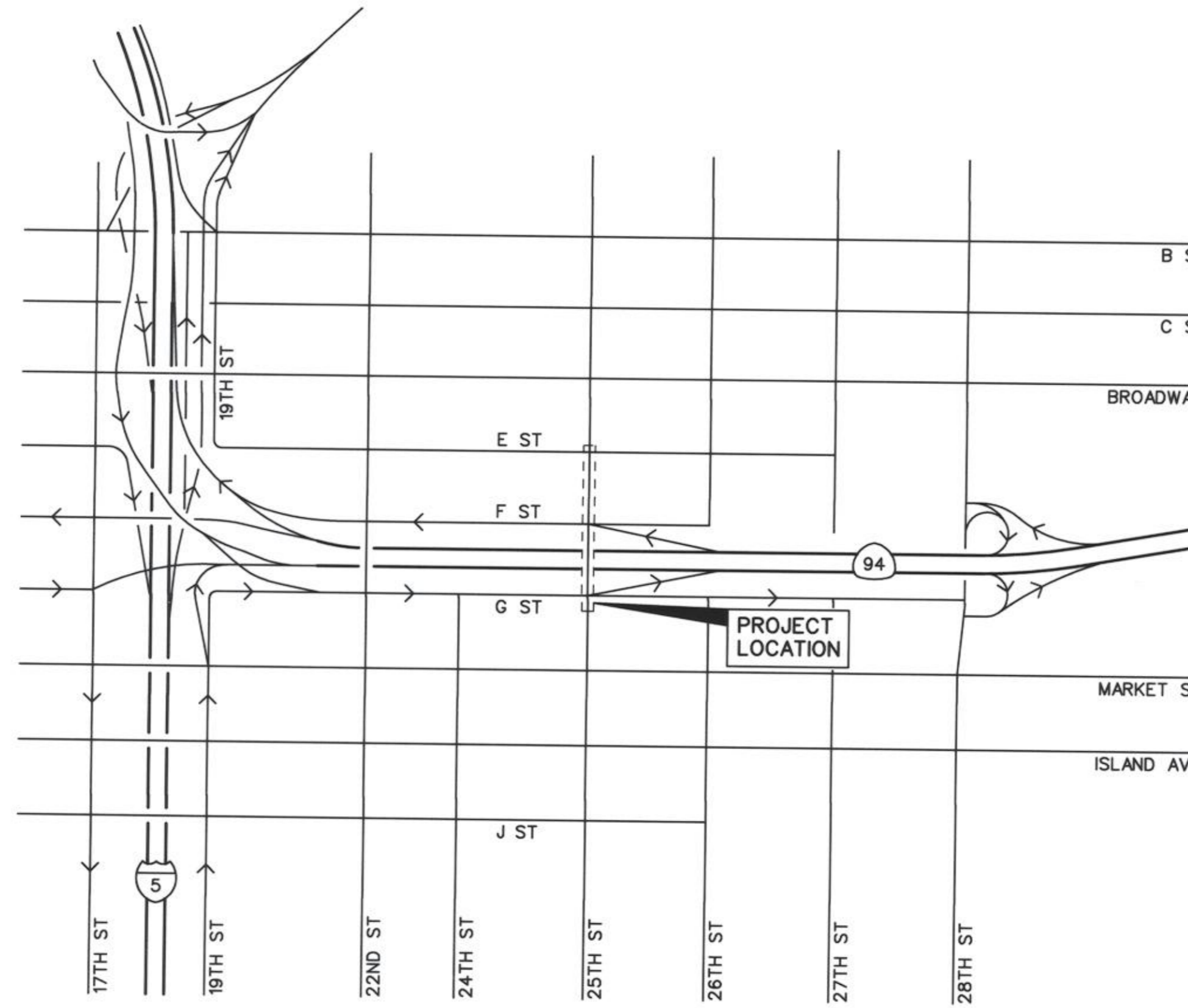
- VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES AND WORK HOURS ARE APPROVED. THE CONTRACTOR SHALL SUBMIT TWO (2) REDUCED COPIES OF TRAFFIC CONTROL PLANS (11"x17") TO THE TRAFFIC CONTROL PERMIT CENTER, 3RD FLOOR DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.
- CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858)495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY CONSTRUCTION WORK AFFECTING TRAFFIC SIGNALS.
- STANDARDS: THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:

DOCUMENT NO.	EDITION	DESCRIPTION
PITS070112-01	2012	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREEN" BOOK)
PITS070112-03	2012	CITY OF SAN DIEGO STANDARD DRAWINGS
PITS070112-06	2012	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)
- NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL AFFECTING THE AGENCIES LISTED BELOW:

AGENCY	CONTACT	DESCRIPTION
FIRE DEPARTMENT DISPATCH	(858)573-1300	(STREET OR ALLEY CLOSURE)
POLICE DEPARTMENT DISPATCH	(619)531-2000	(STREET OR ALLEY CLOSURE)
ENVIRONMENTAL SERVICES	(858)492-5060	(REFUSE COLLECTION)
STREET DIVISION	(619)527-7500	(TRAFFIC SIGNALS)
METROPOLITAN TRANSIT SYSTEM (MTS)	(619)238-0100 EXT. 6451	(BUS STOPS)
METROPOLITAN TRANSIT SYSTEM (MTS)	(619)235-2644	(TAXI ZONES)
METROPOLITAN TRANSIT SYSTEM (MTS)	(619)595-4930	(TROLLEY LINES)
UNDERGROUND SERVICE ALERT	(800)422-4133	(ANY EXCAVATION)

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.

THE CONTRACTOR SHALL NOTIFY ENGINEERING FIELD DIVISION AT (858)627-3200 AND ARRANGE FOR INSPECTION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK INVOLVING NIGHTTIME OR WEEKEND HOURS.
- POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS. PARKING METERS SHALL BE BAGGED WHERE APPLICABLE.
- EXCAVATIONS: EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS, ALL TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME 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, BIKE LANES, AND PEDESTRIAN WALKWAYS IN THE RIGHT-OF-WAY EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS.
- COVERED PEDESTRIAN WALKWAY: THE CONTRACTOR SHALL CONTACT THE CITY RESIDENT ENGINEER AT (619)627-3200 FOR INSPECTION OF ANY COVERED PEDESTRIAN WALKWAY DURING CONSTRUCTION OF SUCH WALKWAY.
- RESTORATION OF ROADWAY: THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY NOT DESIGNATED FOR PERMANENT REMOVAL (TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) WHICH ARE DAMAGED OR REMOVED AS A RESULT OF OPERATIONS. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.
- CHANGE IN WORK: THE CITY ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE ANY CHANGES AS FIELD CHANGES WARRANT. ANY CHANGES SHALL BE DOCUMENTED AND SUPERCEDE THESE PLANS.



LOCATION MAP
NOT TO SCALE

PERMIT NUMBER 11-12-NUB-0440
CO SD RTE 94 PM 1.84
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	EDITION	DESCRIPTION
PITS070112-01	2012	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREEN" BOOK)
PITS070112-02	2012	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "WHITE" BOOK)
PITS070112-04	2010	CALTRANS STANDARD SPECIFICATIONS
PITS070112-06	2012	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)

STANDARD DRAWINGS:

DOCUMENT NO.	EDITION	DESCRIPTION
PITS070112-03	2012	CITY OF SAN DIEGO STANDARD DRAWINGS
PITS070112-05	2012	CALTRANS STANDARD PLANS

LEGEND (SHEETS 2 TO 7)

ITEM	STANDARD DRAWING	SYMBOL
PROPOSED TEMPORARY ROADSIDE SIGN	---	⬇
TYPE II BARRICADE WITH SIGN	---	⬇
PORTABLE DELINEATOR	---	●
DIRECTION OF TRAVEL	---	➔
FLASHING ARROW SIGN	---	⬇
WORK ZONE	---	⊠
TRAFFIC SIGNAL	---	Ⓣ

IMPORTANT NOTICE
Section 4216 of the Government Code requires a Dig Alert Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID Number Call Underground Service Alert Toll Free 1-800-422-4133 Two working days before you dig

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	SHEET NUMBERS REVISED OR ADDED THIS CHANGE

DECLARATION OF RESPONSIBLE CHARGE

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.

ENGINEER OF WORK

John P. Keating
JOHN P. KEATING R.C.E. 43595 DATE 6/28/13



LINSCOTT, LAW & GREENSPAN, ENGINEERS
4542 Ruffner Street, Suite 100
San Diego, Ca 92111
(858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-48.1	T1-NOTES-6350-48.DGN	6/28/13
Designed By: JSM	Drawn By: DVS	Checked By: JPK

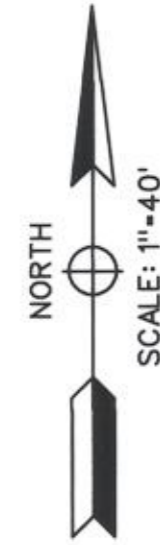
T-1

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF:

WATER GROUP 959

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 1 OF 7 SHEETS	WATER WBS B11138 SEWER WBS			
APPROVED BY: <i>Aliamed Aburamman</i> 6/28/13 FOR CITY ENGINEER DATE	SUBMITTED BY: LAJLA NASRAWI ASSOCIATE ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CONTRACTOR INSPECTOR	DATE STARTED	DATE COMPLETED	36555-T01-D	

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 REMAIN OPERATIONAL

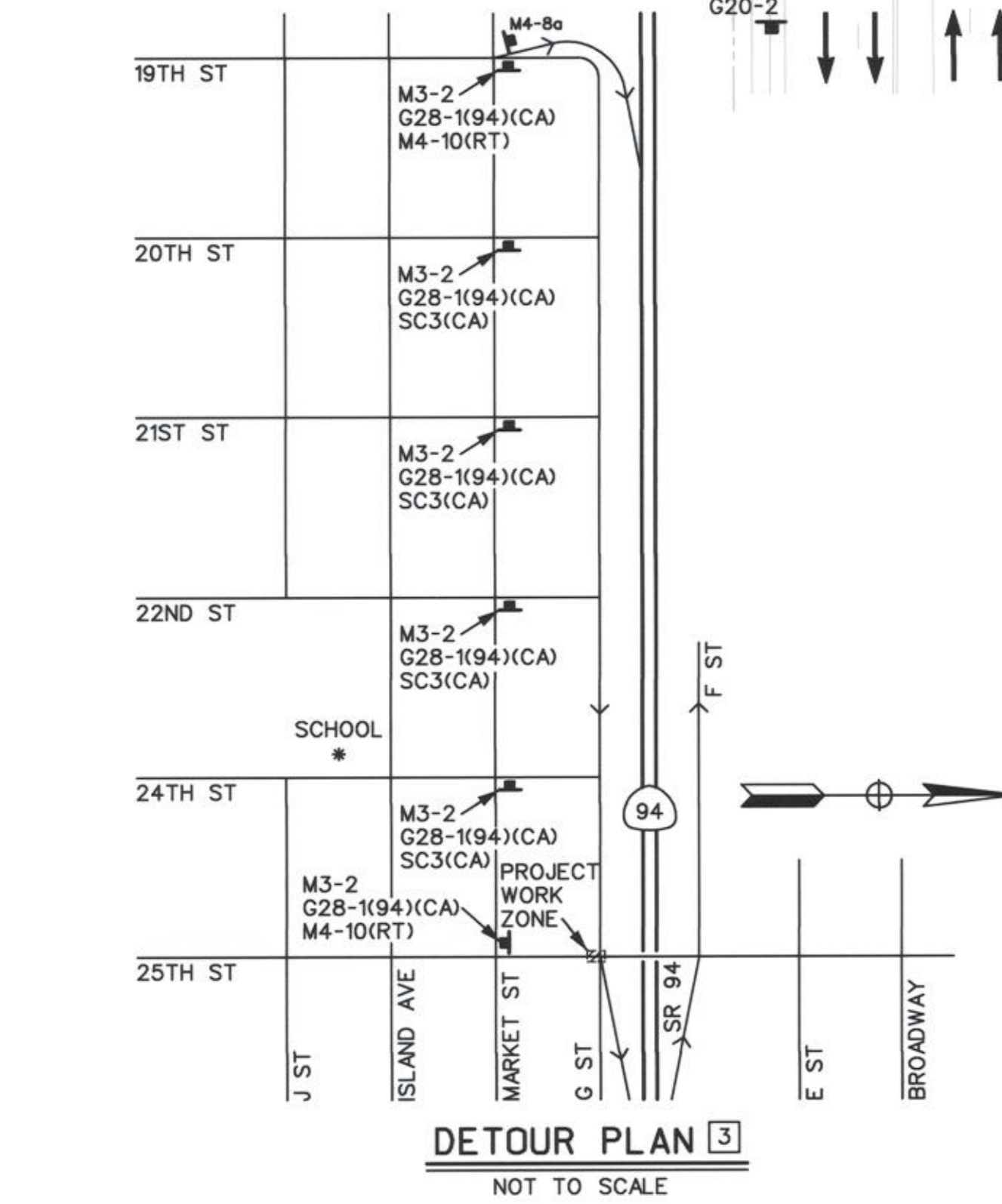
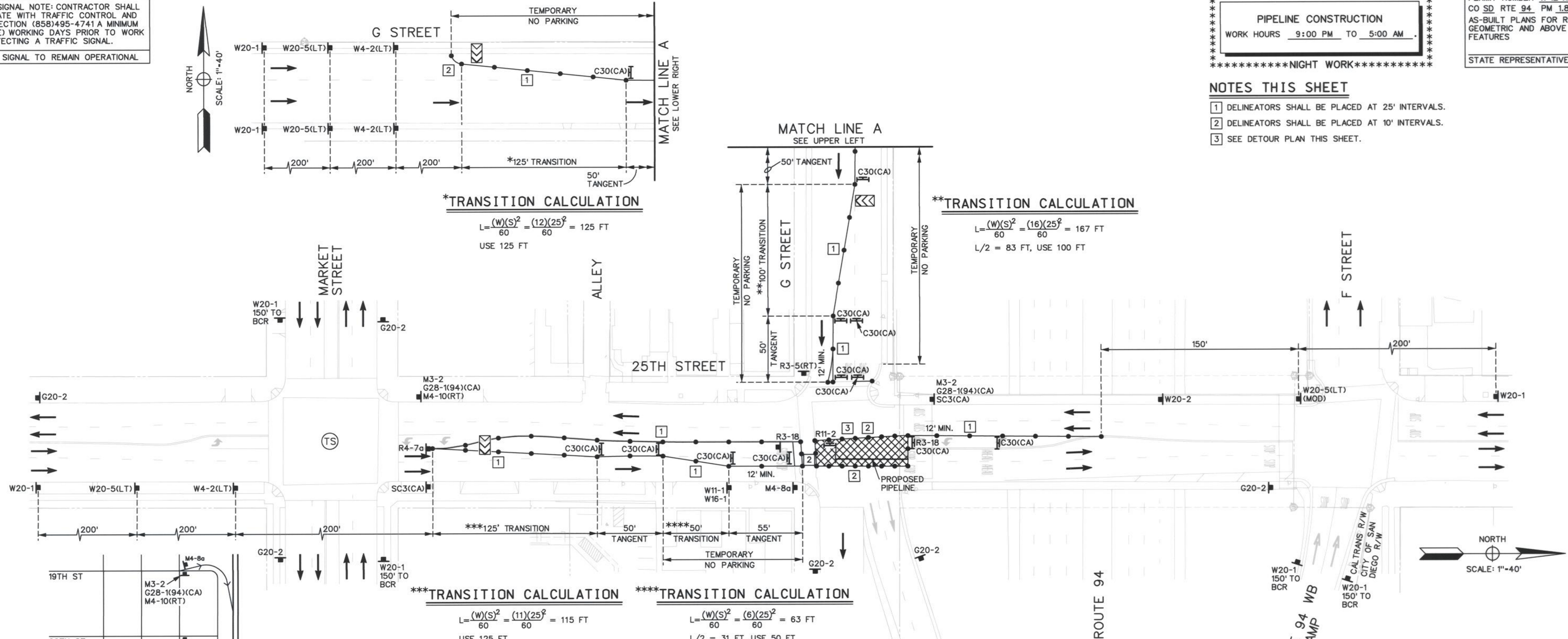


PIPELINE CONSTRUCTION
WORK HOURS 9:00 PM TO 5:00 AM
*****NIGHT WORK*****

PERMIT NUMBER 11-12-NUB-0440
CO SD RTE 94 PM 1.84
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE

NOTES THIS SHEET

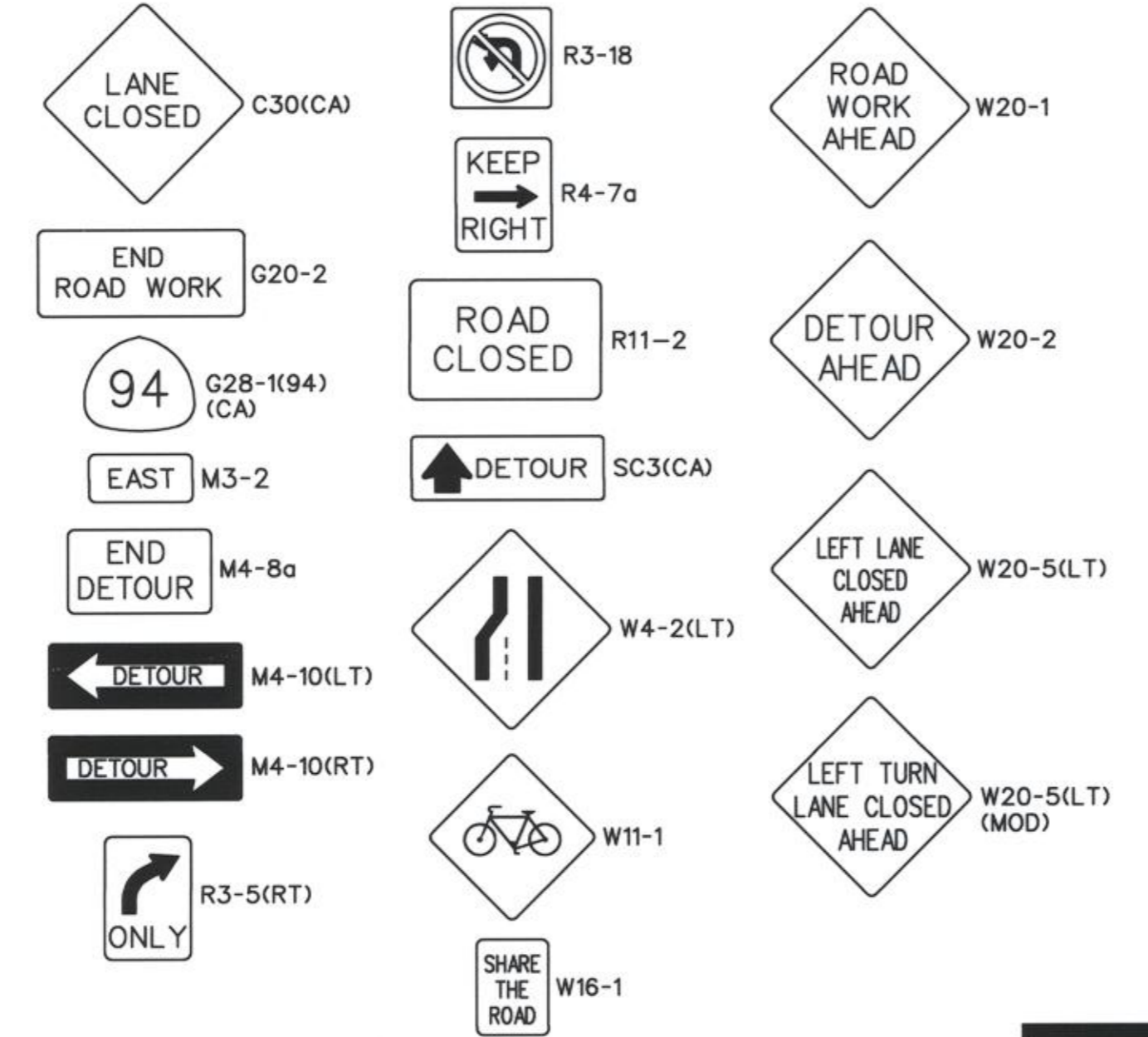
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.



*****TRANSITION CALCULATION*****
 $L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$
 USE 125 FT

******TRANSITION CALCULATION******
 $L = \frac{(W)(S)^2}{60} = \frac{(6)(25)^2}{60} = 63 \text{ FT}$
 L/2 = 31 FT, USE 50 FT

TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



DECLARATION OF RESPONSIBLE CHARGE

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.

ENGINEER OF WORK

John P. Keating
JOHN P. KEATING R.C.E. 43595 DATE 6/28/13



LINSCOTT, LAW & GREENSPAN, ENGINEERS
 4542 Ruffner Street, Suite 100
 San Diego, Ca 92111
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-48.1 TCG-6350-48STG1.DGN 6/28/13
 Designed By: JSM Drawn By: DVS Checked By: JPK

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-2

TRAFFIC CONTROL PLANS FOR:

WATER GROUP JOB 959
25TH STREET
(STAGE 1)

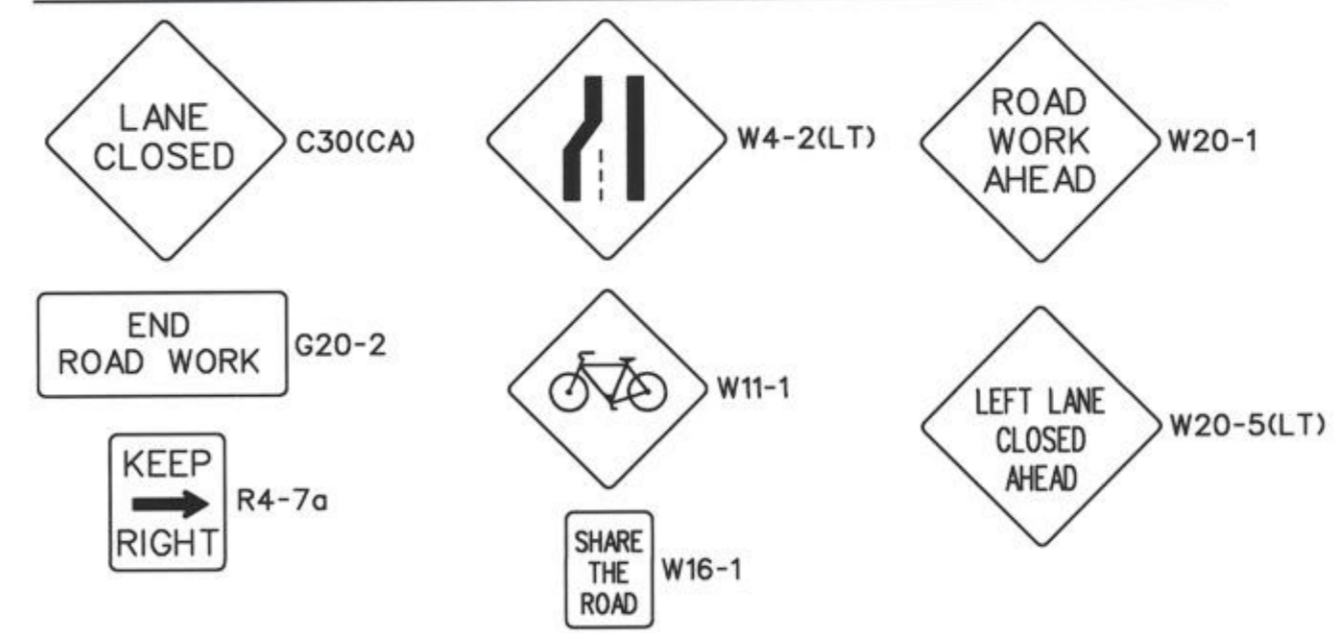
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 2 OF 7 SHEETS	WATER WBS B11138 SEWER WBS			
FOR CITY ENGINEER: <i>John P. Keating</i> 07/01/2013	SUBMITTED BY: LAJLA NASRAWI ASSOCIATE ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CHECKED BY: LOTOUS LENGUYEN PROJECT ENGINEER				
200-1725 CCS27 COORDINATE				
1842574-629151 CCS83 COORDINATE				
CONTRACTOR	DATE STARTED	36555-T02-D		
INSPECTOR	DATE COMPLETED			

TRAFFIC CONTROL DESIGN SPEED
 G STREET = 25 MPH
 25TH STREET = 25 MPH



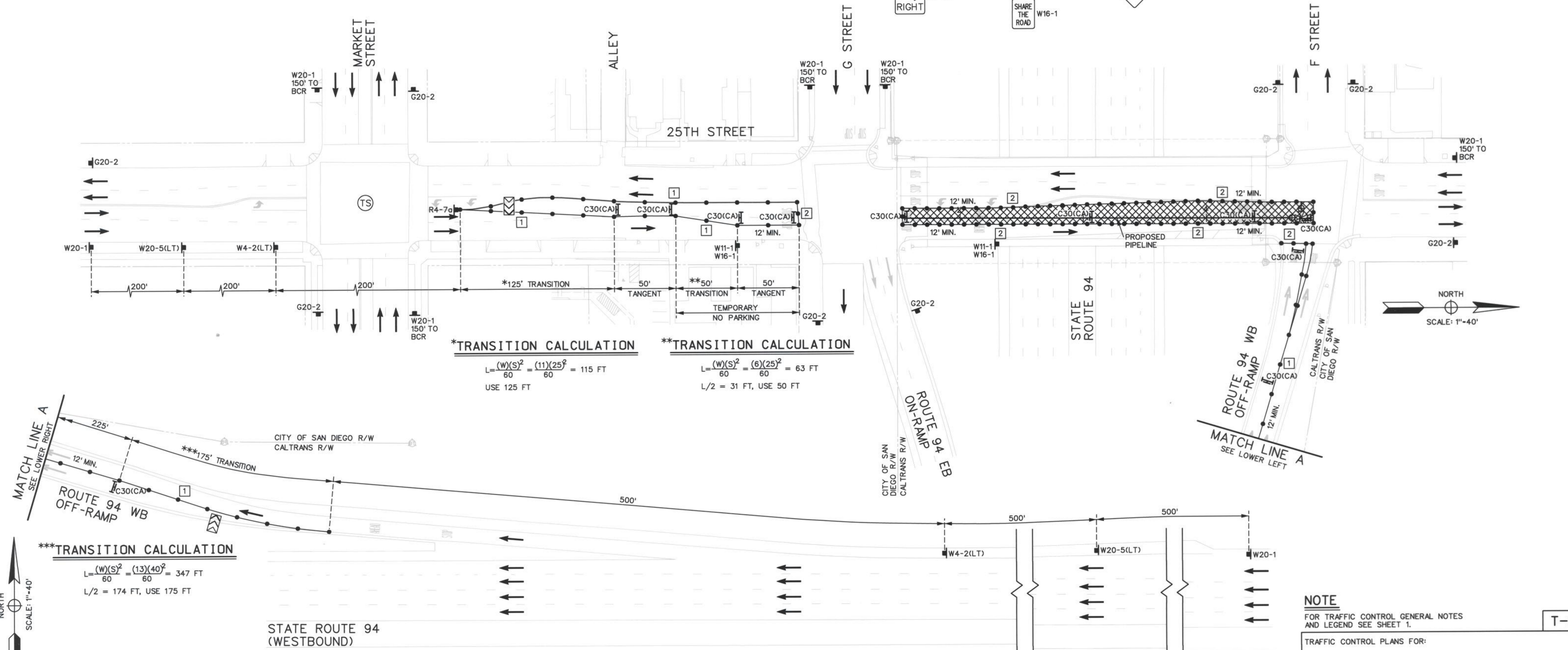
TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.
TRAFFIC SIGNAL TO REMAIN OPERATIONAL

TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



PIPELINE CONSTRUCTION
WORK HOURS 8:00 AM TO 3:00 PM

PERMIT NUMBER 11-12-NUB-0440
CO SD RTE 94 PM 1.84
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE



***TRANSITION CALCULATION**
 $L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$
USE 125 FT

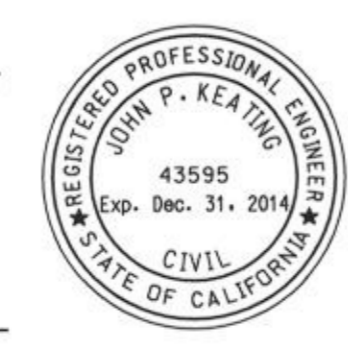
****TRANSITION CALCULATION**
 $L = \frac{(W)(S)^2}{60} = \frac{(6)(25)^2}{60} = 63 \text{ FT}$
L/2 = 31 FT, USE 50 FT

*****TRANSITION CALCULATION**
 $L = \frac{(W)(S)^2}{60} = \frac{(13)(40)^2}{60} = 347 \text{ FT}$
L/2 = 174 FT, USE 175 FT

DECLARATION OF RESPONSIBLE CHARGE

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.

ENGINEER OF WORK
JOHN P. KEATING R.C.E. 43595 DATE 6/28/13

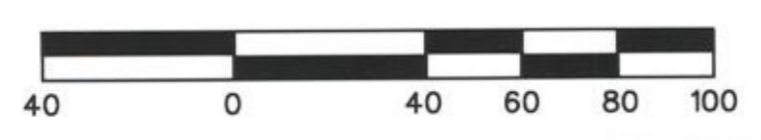


LINSCOTT, LAW & GREENSPAN, ENGINEERS
4542 Ruffner Street, Suite 100
San Diego, Ca 92111
(858)300-8800 (PH) (858)300-8810 (FX)

NOTE
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-3

- NOTES THIS SHEET
1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

TRAFFIC CONTROL DESIGN SPEED
STATE ROUTE 94 WB OFF-RAMP = 40 MPH
25TH STREET = 25 MPH



TRAFFIC CONTROL PLANS FOR:

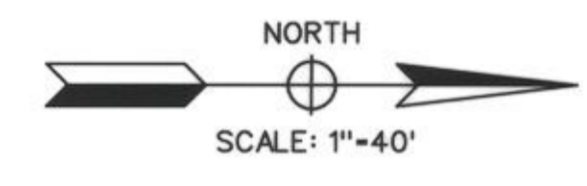
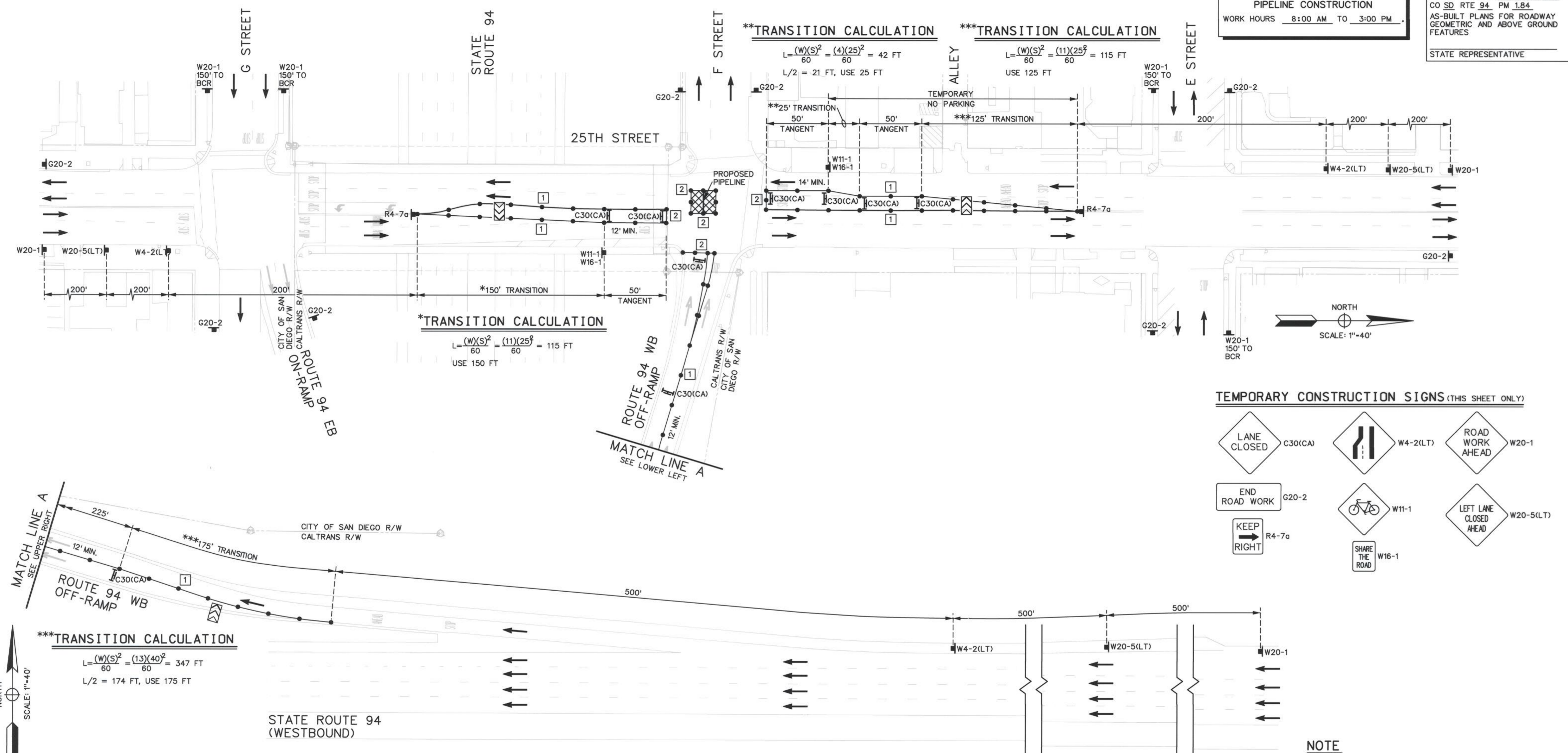
**WATER GROUP JOB 959
25TH STREET
(STAGE 2)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 3 OF 7 SHEETS		WATER WBS 81138 SEWER WBS
FOR CITY ENGINEER	DATE 07/01/2013	ASSOCIATE ENGINEER
DESIGNED BY: LAILA NASRAW	BY: LLG	PROJECT ENGINEER
APPROVED BY: LAILA NASRAW	DATE	200-1725
FILED		CCS27 COORDINATE
		1842574-028151
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36555-T03-D
INSPECTOR	DATE COMPLETED	

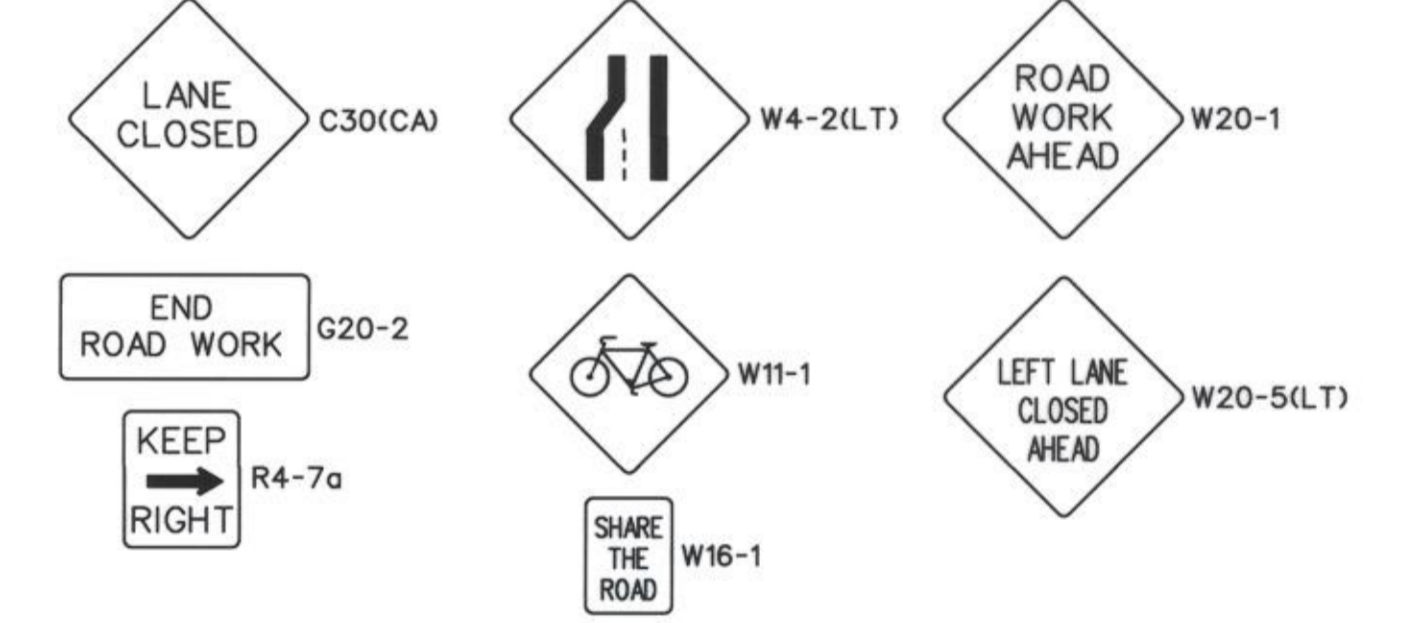
PIPELINE CONSTRUCTION
 WORK HOURS 8:00 AM TO 3:00 PM

PERMIT NUMBER 11-12-NUB-0440
 CO SD RTE 94 PM 1.84
 AS-BUILT PLANS FOR ROADWAY
 GEOMETRIC AND ABOVE GROUND
 FEATURES

STATE REPRESENTATIVE _____



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-5

TRAFFIC CONTROL PLANS FOR:			
WATER GROUP JOB 959			
25TH STREET			
(STAGE 4)			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT		WATER WBS B11138 SEWER WBS	
SHEET 5 OF 7 SHEETS		SUBMITTED BY: LAJLA NASRAWI ASSOCIATE ENGINEER	
APPROVED FOR CITY ENGINEER: <i>Muhammad Hovwahab</i> 07/01/2013		CHECKED BY: LOTOUS LENGUYEN PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		36555-T05-D	

NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

TRAFFIC CONTROL DESIGN SPEED
 STATE ROUTE 94 WB OFF-RAMP = 40 MPH
 25TH STREET = 25 MPH

DECLARATION OF RESPONSIBLE CHARGE

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.

ENGINEER OF WORK

John P. Keating
 JOHN P. KEATING R.C.E. 43595
 DATE 6/28/13



LINSCOTT, LAW & GREENSPAN, ENGINEERS
 4542 Ruffner Street, Suite 100
 San Diego, Ca 92111
 (858)300-8800 (PH) (858)300-8810 (FX)

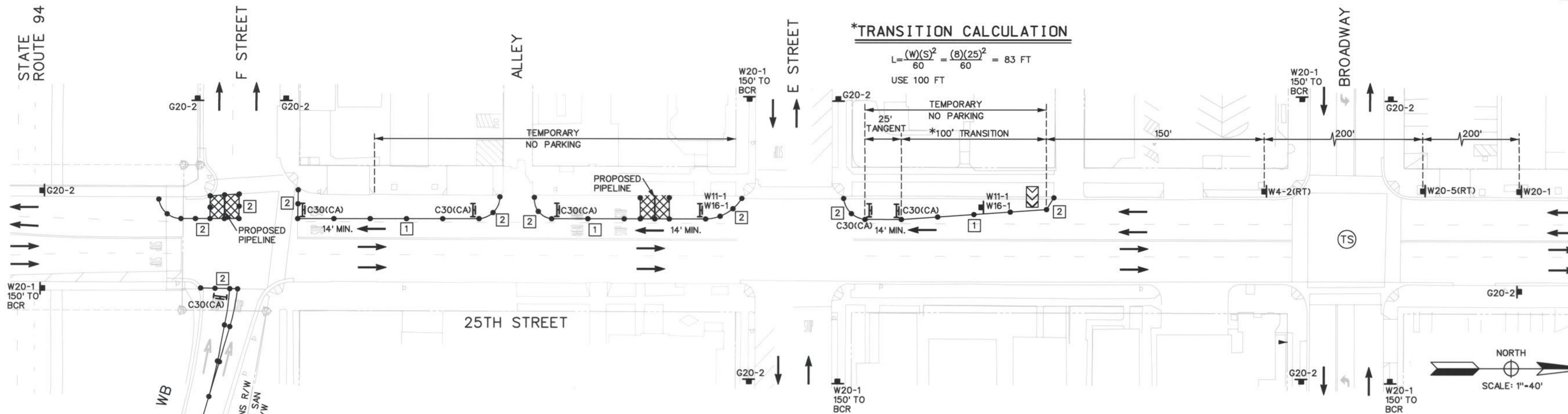
LLG 3-076350-48.1 TC5-6350-48STG4.DGN 6/28/13
 Designed By: JSM Drawn By: DVS Checked By: JPK



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 REMAIN OPERATIONAL

PIPELINE CONSTRUCTION
WORK HOURS 8:00 AM TO 3:00 PM

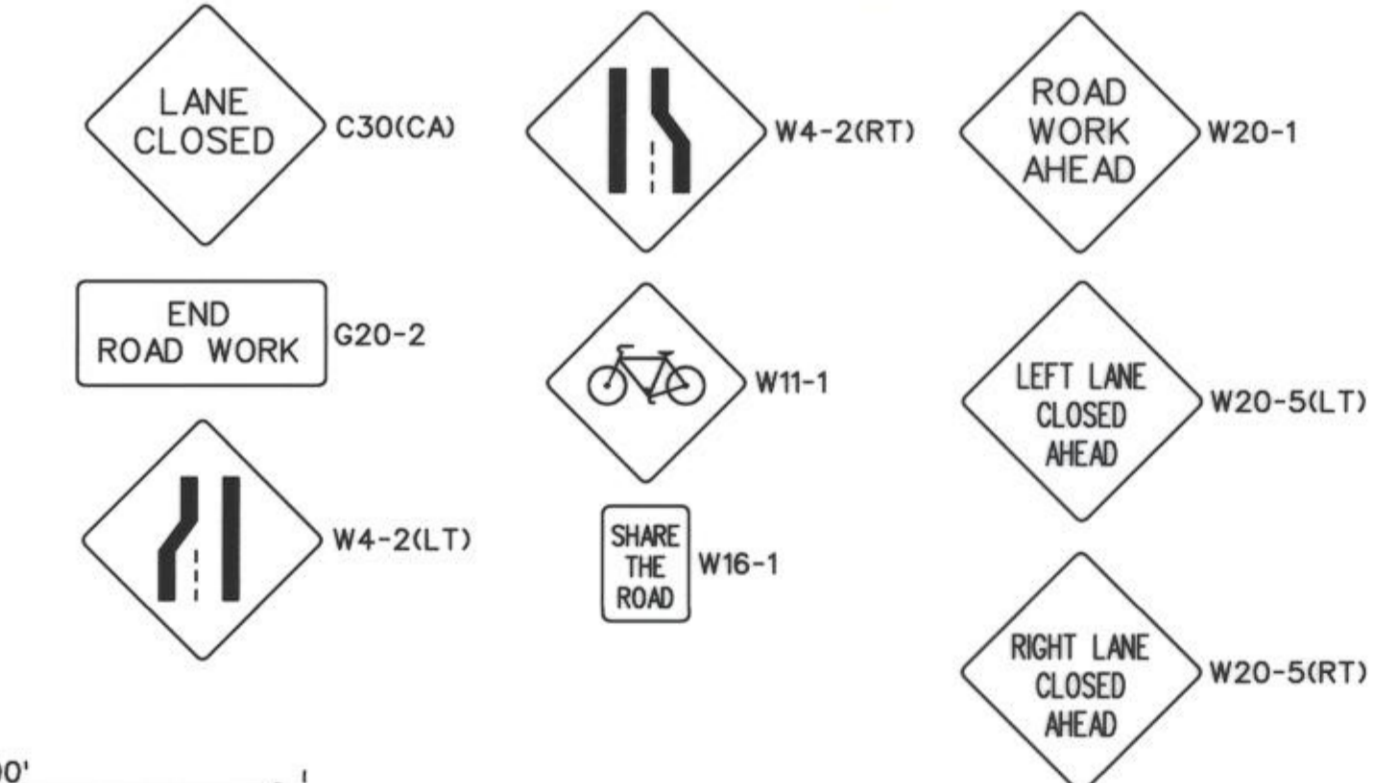
PERMIT NUMBER 11-12-NUB-0440
CO SD RTE 94 PM 1.84
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
STATE REPRESENTATIVE



***TRANSITION CALCULATION**
 $L = \frac{(W)(S)^2}{60} = \frac{(8)(25)^2}{60} = 83 \text{ FT}$
 USE 100 FT

*****TRANSITION CALCULATION**
 $L = \frac{(W)(S)^2}{60} = \frac{(13)(40)^2}{60} = 347 \text{ FT}$
 $L/2 = 174 \text{ FT, USE 175 FT}$

TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

TRAFFIC CONTROL PLANS FOR:				T-6
WATER GROUP JOB 959 25TH STREET (STAGE 5)				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 6 OF 7 SHEETS			WATER WBS 811138 SEWER WBS	
FOR CITY ENGINEER	DATE	SUBMITTED BY		
<i>Amel Alwan</i>	07/01/2013	LAILA NASRAWI ASSOCIATE ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CREATED BY			PROJECT ENGINEER	
200-1725			CCS27 COORDINATE	
1942574-6291151			CCS83 COORDINATE	
CONTRACTOR	DATE STARTED	DATE COMPLETED		36555-T06-D
INSPECTOR				

NOTES THIS SHEET

- 1) DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2) DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

TRAFFIC CONTROL DESIGN SPEED
 STATE ROUTE 94 WB OFF-RAMP = 40 MPH
 25TH STREET = 25 MPH

DECLARATION OF RESPONSIBLE CHARGE

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.

ENGINEER OF WORK

John P. Keating
 JOHN P. KEATING R.C.E. 43595 DATE 6/28/13



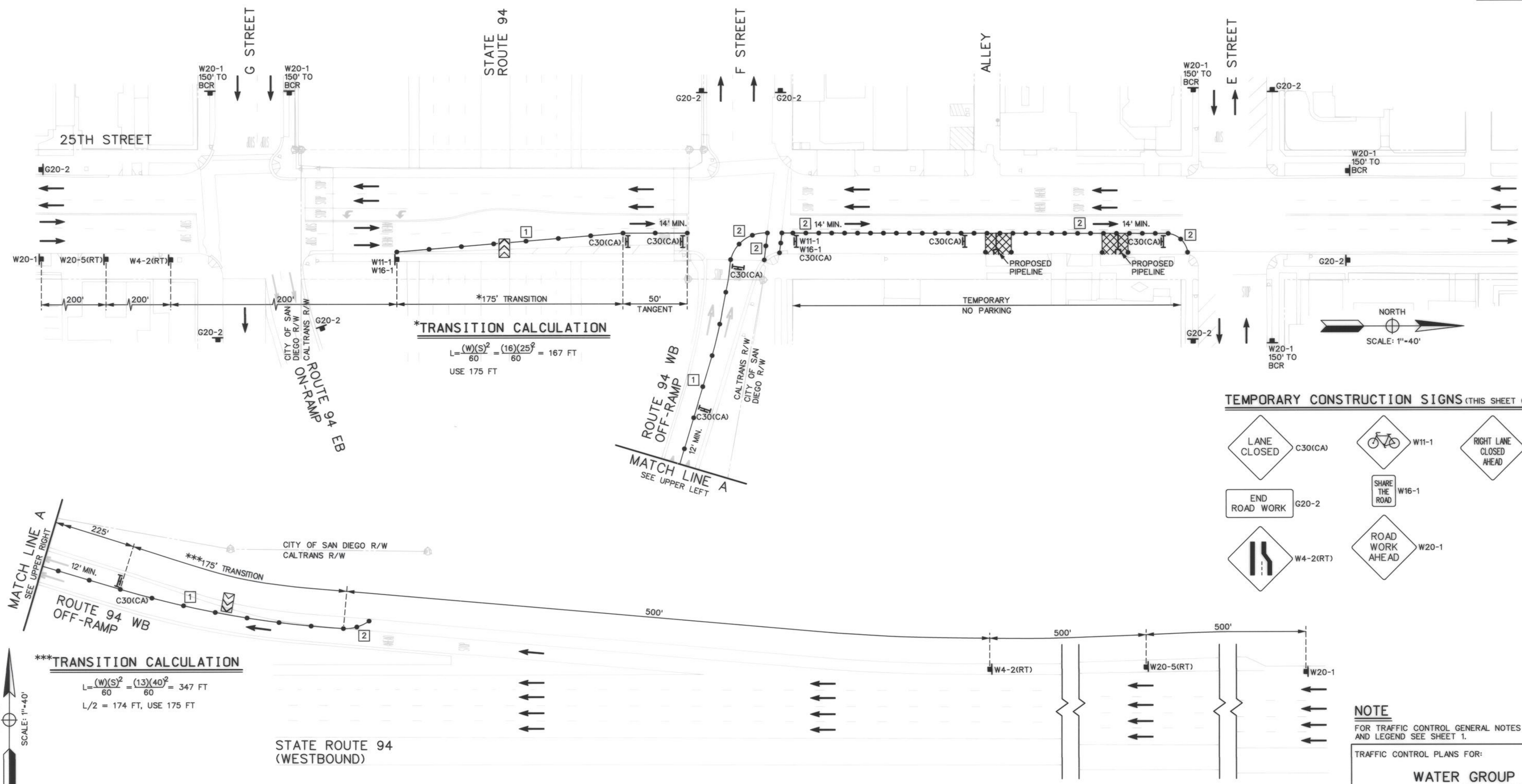
LINSCOTT LAW & GREENSPAN, ENGINEERS
 4542 Ruffner Street, Suite 100
 San Diego, Ca 92111
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-48.1	TC6-6350-48STGS.DGN	6/28/13
Designed By: JSM	Drawn By: DVS	Checked By: JPK



PIPELINE CONSTRUCTION
 WORK HOURS 8:00 AM TO 3:00 PM

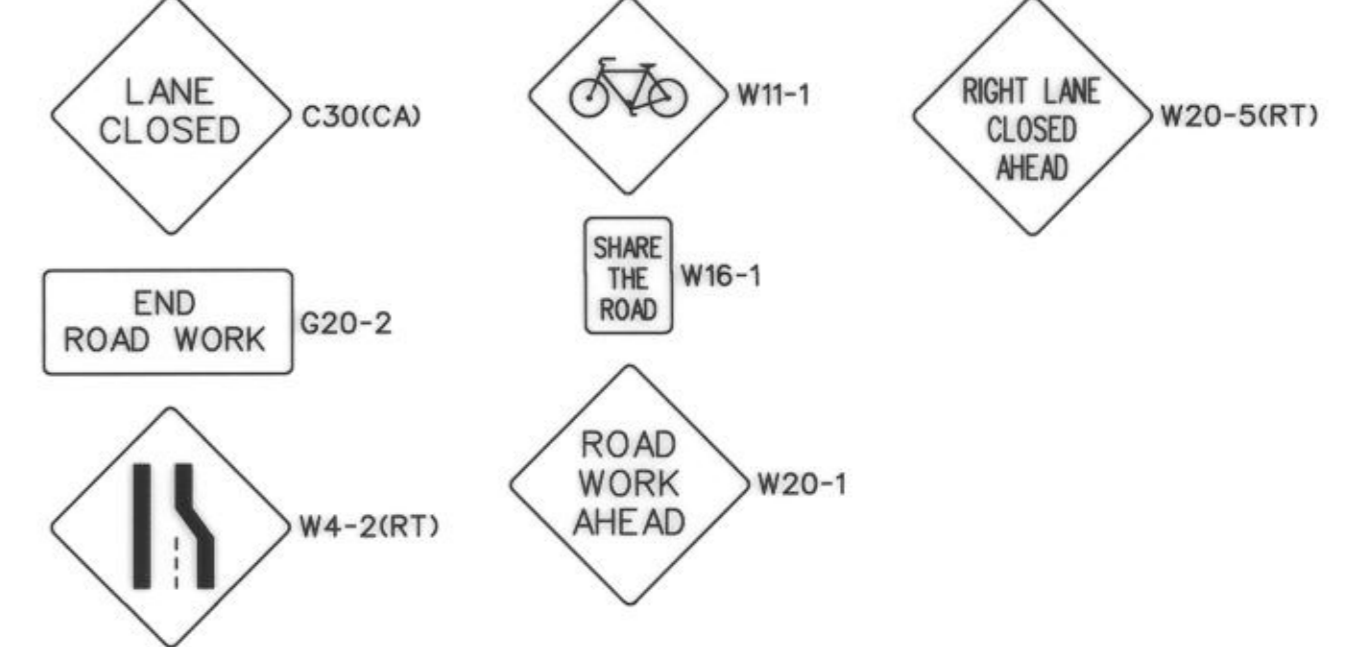
PERMIT NUMBER 11-12-NUB-0440
 CO SD RTE 94 PM 1.84
 AS-BUILT PLANS FOR ROADWAY
 GEOMETRIC AND ABOVE GROUND
 FEATURES
 STATE REPRESENTATIVE



***TRANSITION CALCULATION**
 $L = \frac{(W)(S)^2}{60} = \frac{(16)(25)^2}{60} = 167 \text{ FT}$
 USE 175 FT

*****TRANSITION CALCULATION**
 $L = \frac{(W)(S)^2}{60} = \frac{(13)(40)^2}{60} = 347 \text{ FT}$
 $L/2 = 174 \text{ FT, USE 175 FT}$

TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-7

TRAFFIC CONTROL PLANS FOR:

**WATER GROUP JOB 959
 25TH STREET
 (STAGE 6)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 7 OF 7 SHEETS		WATER WBS: 81138 SEWER WBS:
APPROVED BY: <i>John Keating</i> FOR CITY ENGINEER	DATE: 07/01/2013	DRAWN BY: LAJLA NASRAWI ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: LLG	CHECKED BY: LOTOUS LENGUYEN PROJECT ENGINEER
	APPROVED DATE:	200-1725 CIS27 COORDINATE
		1842574-629151 CCS83 COORDINATE
CONTRACTOR:	DATE STARTED:	36555-T07-D
INSPECTOR:	DATE COMPLETED:	

- NOTES THIS SHEET**
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 - 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

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ENGINEER OF WORK

John P. Keating
 JOHN P. KEATING R.C.E. 43595 DATE 6/28/13



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 San Diego, CA 92111
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Designed By: JSM	Drawn By: DVS	Checked By: JPK