

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633
DZhang /BDoringo/LAD

CONTRACT DOCUMENTS



FOR

TRAFFIC SIGNAL MODIFICATIONS FY 2011

VOLUME 1 OF 2

BID NO.: _____ K-14-5953-DBB-3
SAP NO. (WBS/IO/CC): _____ B-11108
CLIENT DEPARTMENT: _____ 2116
COUNCIL DISTRICT: _____ CityWide
PROJECT TYPE: _____ IL

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- BID DISCOUNT PROGRAM (The WHITEBOOK, SLBE-ELBE Program Requirements, Section IV(2))
- PREVAILING WAGE RATES: STATE FEDERAL

BID DUE DATE:

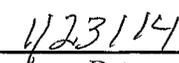
**2:00 PM
MARCH 11, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101**

ENGINEER OF WORK

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



For City Engineer



Date

Seal:



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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 **Traffic Signal Modifications FY 2011** (Project).
2. **SUMMARY OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described in ATTACHMENT A.
3. **BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
4. **EQUAL OPPORTUNITY CONTRACTING PROGRAM:**
 - 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	6.7%
2. ELBE participation	15.1%
3. Total mandatory participation	21.8%
 - 4.2. The Bidders are strongly encouraged 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. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR.
 - 4.3.2. 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 Days** of the Bid opening if the overall mandatory participation percentage is not met.
 - 4.4. For additional Equal Opportunity Contracting Program requirements, see Attachment C.

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, 14th Floor, San Diego, CA 92101 at **10:00 A.M., on February 20, 2014.**
- 5.2.** All potential bidders are encouraged to attend.
- 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 the City's web-based contract compliance website, Prism®, located here:

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

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

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

- 8. PREVAILING WAGE RATES:** Prevailing wage rates apply to this contract.

8.1. STATE REQUIREMENTS FOR CONTRACTS SUBJECT TO STATE PREVAILING WAGE REQUIREMENTS.

- 8.1.1.** In accordance with the provisions of California Labor Code Sections 1770, et seq. as amended, the Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages in accordance with the standards set forth in such Sections for the locality in which the Work is to be performed. Copies of the prevailing rate of per diem wages may be found at http://www.dir.ca.gov/dlsr/statistics_research.html. The Contractor shall post a copy of the above determination of the prevailing rate of per diem wages at each job site and shall make them available to any interested party on request.
- 8.1.2.** Pursuant to Sections 1720 et seq., and 1770 et seq., of the California Labor Code the Contractor any Subcontractor shall pay not less than said specified rates determined by the Director of the California Department of

Industrial Relations to all workmen employed by them in the execution of the Work.

8.1.3. The wage rates determined by the Director of Industrial Relations and published in the Department of Transportation publication entitled, "General Prevailing Wage Rates", refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, said published rate of wage shall be in effect for the life of this contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the Department of Industrial Relations, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this contract, each successive predetermined wage rate shall apply to this contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this contract, such wage rate shall apply to the balance of the contract.

8.1.4. The successful bidder intending to use a craft or classification not shown on the prevailing rate determinations may be required to pay the rate of the craft or classification most closely related to it.

9. INSURANCE REQUIREMENTS:

- 9.1.** 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.
- 9.2.** 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.

10. PREQUALIFICATION OF CONTRACTORS:

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

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

- 10.2.** 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, 14th Floor, San Diego, CA 92101.

For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.

- 11. 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		

- 12. 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.
- 13. 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.
- 14. 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.
- 15. SUBMITTAL OF “OR EQUAL” ITEMS:** See Section 4-1.6, “Trade Names or Equals” in The WHITEBOOK and as amended in the SSP.

16. AWARD PROCESS:

- 16.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 16.2.** 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.
- 16.3.** This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.

17. SUBCONTRACT LIMITATIONS: The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The GREENBOOK and as amended in the SSP which requires the Contractor to self perform the amount therein stipulated. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.

18. 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.

19. SUBMISSION OF QUESTIONS:

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

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

OR:

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

- 19.2.** Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 19.3.** Clarifications deemed by the City to be material shall be issued by Addenda and uploaded to the City's online bidding service.
- 19.4.** 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.

- 20. 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.
- 21. 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.
- 22. 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.
- 22.1.** 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.
- 22.2.** The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.
- 22.3.** 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.
- 22.4.** Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.
- 23. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY):**
- 23.1.** 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.
- 23.2.** 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.

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

24. AWARD OF CONTRACT OR REJECTION OF BIDS:

- 24.1.** This contract may be awarded to the lowest responsible and reliable Bidder.
- 24.2.** 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.
- 24.3.** 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.
- 24.4.** 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.
- 24.5.** 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-responsive in accordance with San Diego Municipal Code Chapter 2, § 22.3029, “Protests of Contract Award.”
- 24.6.** 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.
- 24.7.** 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.
- 24.8.** 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.

25. BID RESULTS:

- 25.1.** 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.

- 25.2. 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.

26. THE CONTRACT:

- 26.1. 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.
- 26.2. 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.
- 26.3. 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.
- 26.4. 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.
- 26.5. 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.

27. **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.

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

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

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

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

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

28.5. 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.

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

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

29. PRE-AWARD ACTIVITIES:

29.1. 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**.

29.2. 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.

30. REQUIRED DOCUMENT SCHEDULE:

30.1. 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.

30.2. 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.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SLBE Good Faith Efforts Documentation
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA60 – List of Work Made Available
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
11.	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
12.	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
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
17.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

CONTRACT FORMS

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and **T&M Electric, Inc. DBA Perry Electric**, herein called "Contractor" for construction of **Traffic Signal Modifications FY 2011; Bid No. K-14-5953-DBB-3**; in the amount of **Seven Hundred Twenty-Six Thousand Seven Hundred Forty-Five Dollars and 00/100 (\$726,745.00)**, which is comprised of the Base Bid Only.

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 **Traffic Signal Modifications FY 2011**, on file in the office of the Public Works Department as Document No. **B-11108**, 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 **Traffic Signal Modifications FY 2011**; Bid Number **K-14-5953-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.

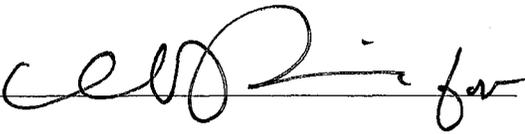
CONTRACT FORMS (continued)

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

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By 

By 

Print Name: Stephen Samara
Senior Contract Specialist

Print Name: RYAN P. GERRITY
Deputy City Attorney

Date: 6/10/14

Date: 6/10/14

CONTRACTOR

By  Todd Perry - T&M Electric, Inc. DBA Perry Electric

Print Name: Todd Perry

Title: President

Date: 4/21/14

City of San Diego License No.: B1998011872

State Contractor's License No.: 747931

**CONTRACT FORMS
ATTACHMENTS**

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

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

T&M Electric, Inc. DBA Perry Electric, a corporation, as principal, and SURETEC 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 Seven Hundred Twenty-Six Thousand Seven Hundred Forty-Five Dollars and 00/100 (\$726,745.00), for the faithful performance of the annexed contract, and in the sum of Seven Hundred Twenty-Six Thousand Seven Hundred Forty-Five Dollars and 00/100 (\$726,745.00), for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract Traffic Signal Modifications FY 2011, Bid Number, K-14-5953-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.

ACKNOWLEDGMENT

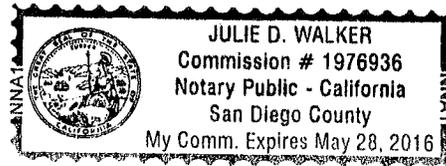
State of California
County of San Diego

On April 28, 2014 before me, **Julie D. Walker, Notary Public**, personally appeared Todd Perry 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.

Julie D. Walker
Signature



OPTIONAL INFORMATION

Description of Attached Document

Title or Type of Document: Faithful Performance Bond and Labor Materialmen's Bond (5177342)

Document Date: April 22, 2014

Signer(s) Other Than Named Above: Mark D. Iatarola

Capacity(ies) Claimed by Signer

- Individual
- President / Vice President / Secretary / Treasurer
- Attorney in Fact
- Trustee
- Other: _____

Signer is Representing: T&M Electric Inc. dba Perry Electric

CONTRACT FORMS ATTACHMENTS (continued)
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

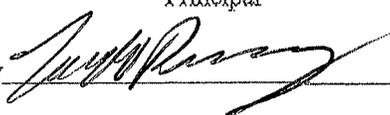
The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated APRIL 22, 2014

Approved as to Form and Legality

T & M ELECTRIC, INC. DBA: PERRY ELECTRIC

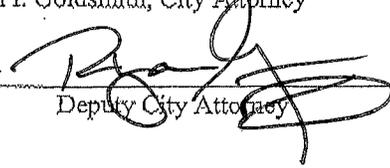
Principal

By 

TODD PERRY, PRESIDENT

Printed Name of Person Signing for Principal

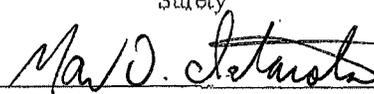
Jan I. Goldsmith, City Attorney

By 

Deputy City Attorney

SURETEC INSURANCE COMPANY

Surety

By 

MARK D. IATAROLA, Attorney-in-fact

Approved:

By 

Stephen Samara, Senior Contract Specialist

3033 FIFTH AVENUE, SUITE 300

Local Address of Surety

SAN DIEGO, CA 92103

Local Address (City, State) of Surety

619/400-4100

Local Telephone No. of Surety

Premium \$ 10,901.00

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

Bond No. 5177342

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

County of SAN DIEGO }

On 04/22/2014 before me, GLEND A. GARDNER, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer

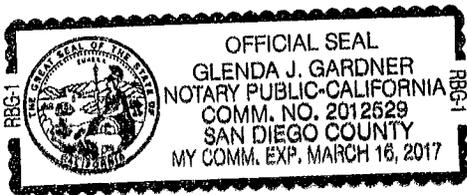
personally appeared MARK D. IATAROLA
Name(s) of Signer(s)

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

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

Witness my hand and official seal.

Signature *Glenda J Gardner*
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: MARK D. IATAROLA

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

SureTec Insurance Company

LIMITED POWER OF ATTORNEY

Know All Men by These Presents, That SURETEC INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Michelle M. Basuill, Glenda J. Gardner, Helen Maloney, Mark D. Iatarola, John G. Maloney

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include waivers to the conditions of contracts and consents of surety for:

Five Million and 00/100 Dollars (\$5,000,000.00)

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment shall continue in force until 10/31/2015 and is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

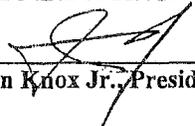
Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. *(Adopted at a meeting held on 20th of April, 1999.)*

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 21st day of March, A.D. 2013.

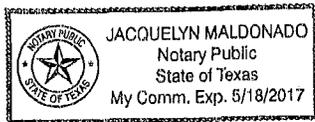
SURETEC INSURANCE COMPANY

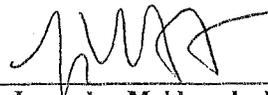
By: 
John Knox Jr., President



State of Texas ss:
County of Harris

On this 21st day of March, A.D. 2013 before me personally came John Knox Jr., to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.




Jacquelyn Maldonado, Notary Public
My commission expires May 18, 2017

I, M. Brent Beaty, Assistant Secretary of SURETEC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; and furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

Given under my hand and the seal of said Company at Houston, Texas this 22ND day of APRIL, 2014, A.D.


M. Brent Beaty, Assistant Secretary

Any instrument issued in excess of the penalty stated above is totally void and without any validity.
For verification of the authority of this power you may call (713) 812-0800 any business day between 8:00 am and 5:00 pm CST.

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

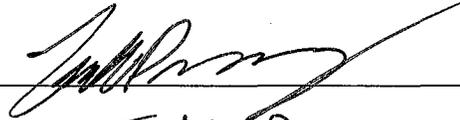
PROJECT TITLE: Traffic Signal Modifications FY 2011

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;

T&M Electric, Inc. DBA Perry Electric
(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

Todd Perry

Title

President

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: Traffic Signal Modifications FY 2011

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;

T&M Electric, Inc. DBA Perry Electric
(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 Todd Perry
Title President

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: Traffic Signal Modifications FY 2011

I declare under penalty of perjury that I am authorized to make this certification on behalf of T&M Electric, Inc. DBA Perry Electric, 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 21ST Day of April, 2014.

Signed 
Printed Name Todd Perry
Title President

AFFIDAVIT OF DISPOSAL

WHEREAS, on the 21st DAY OF April, 2014 the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

Traffic Signal Modifications FY 2011

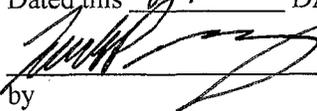
(Name of Project)

as particularly described in said contract and identified as Bid No. K-14-5953-DBB-3; SAP No. (WBS/IO/CC) B-11108; 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 21st DAY OF April, 2014.

by  Contractor

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

COMPANY LETTERHEAD

CERTIFICATE OF COMPLIANCE

Materials and Workmanship Compliance

For Contract or Task _____

I certify that the material listed below complies with the materials and workmanship requirements of the Caltrans Contract Plans, Special Provisions, Standard Specifications, and Standard Plans for the contract listed above.

I also certify that I am an official representative for _____, the manufacturer of the material listed above. Furthermore, I certify that where California test methods, physical or chemical test requirements are part of the specifications, that the manufacturer has performed the necessary quality control to substantiate this certification.

Material Description:

Manufacturer: _____
Model: _____
Serial Number (if applicable) _____
Quantity to be supplied: _____
Remarks: _____

Signed by: _____

Printed Name: _____

Title: _____

Company: _____

Date: _____

ATTACHMENTS

ATTACHMENT A
SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE 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:

Major traffic signal modifications at following intersections: Balboa Avenue & Clairemont Drive; Genesee Avenue & Governor Drive; Eighth Avenue & E Street; Clairemont Mesa Boulevard & Genesee Drive; and 56th Street & El Cajon Boulevard.

- 1.1. The Work shall be performed in accordance with:

- 1.1.1. The Notice Inviting Bids and Plans numbered **36692-1-D** through **36692-7-D**, inclusive.

2. **CONSTRUCTION COST:** The City's estimated construction cost for this contract is **\$673,000.00**

3. **LOCATION OF WORK:** The locations of the Work is as follows:

Balboa Avenue & Clairemont Drive; Genesee Avenue & Governor Drive; Eighth Avenue & E Street; Clairemont Mesa Boulevard & Genesee Drive; and 56th Street & El Cajon Boulevard.

4. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **120 Working Days**.

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

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

Option	Classifications
1	CLASS A
2	CLASS C10

- 5.2. The Bidder shall satisfy the licensing requirement by meeting **at least** one of the listed options.

ATTACHMENT B
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ATTACHMENT C
EQUAL OPPORTUNITY CONTRACTING PROGRAM

EQUAL OPPORTUNITY CONTRACTING PROGRAM

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

D. CITY'S EQUAL OPPORTUNITY COMMITMENT.

1. Nondiscrimination in Contracting Ordinance.

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

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

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

2. Disclosure of Discrimination Complaints. As part of its Bid or Proposal, the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.
3. Upon the City's request, the Contractor agrees to provide to the City, within 60 days, a truthful and complete list of the names of all Subcontractors and Suppliers that the Contractor has used in the past 5 years on any of its contracts that were undertaken within San Diego County, including the total dollar amount paid by the Contractor for each subcontract or supply contract.
4. The Contractor further agrees to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance, Municipal Code §§22.3501 through 22.3517. The Contractor understands and agrees that violation of this clause shall be considered a material breach of the Contract and may result in remedies being ordered against the Contractor up to and including contract termination, debarment and other sanctions for violation of the provisions of the Nondiscrimination in Contracting Ordinance. The Contractor further understands and agrees that the procedures, remedies and sanctions provided for in the Nondiscrimination in Contracting Ordinance apply only to violations of the Ordinance.

E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.

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

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

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

2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05), within 10 Working Days after receipt by the Bidder of Contract forms to the City for approval as specified in the Notice of Intent to Award letter from the City.
3. If a Work Force Report is submitted, and the City determines there are under-representations when compared to County Labor Force Availability data, the selected Bidder shall submit an Equal Employment Opportunity Plan.
4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:
 1. The Contractor shall maintain a working environment free of discrimination, harassment, intimidation and coercion at all sites and in all facilities at which the Contractor's employees are assigned to work.
 2. The Contractor reviews its EEO Policy, at least annually, with all on-site supervisors involved in employment decisions.
 3. The Contractor disseminates and reviews its EEO Policy with all employees at least once a year, posts the policy statement and EEO posters on all company bulletin boards and job sites, and documents every dissemination, review and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.
 4. The Contractor reviews, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintains written documentation of these reviews.
 5. The Contractor discusses its EEO Policy Statement with subcontractors with whom it anticipates doing business, includes the EEO Policy Statement in its subcontracts, and provides such documentation to the City upon request.

6. The Contractor documents and maintains a record of all bid solicitations and outreach efforts to and from subcontractors, contractor associations and other business associations.
7. The Contractor disseminates its EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit, maintains files documenting these efforts, and provides copies of these advertisements to the City upon request.
8. The Contractor disseminates its EEO Policy to union and community organizations.
9. The Contractor provides immediate written notification to the City when any union referral process has impeded the Contractor's efforts to maintain its EEO Policy.
10. The Contractor maintains a current list of recruitment sources, including those outreaching to people of color and women, and provides written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.
11. The Contractor maintains a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.
12. The Contractor encourages all present employees, including people of color and women employees, to recruit others.
13. The Contractor maintains all employment selection process information with records of all tests and other selection criteria.
14. The Contractor develops and maintains documentation for on-the-job training opportunities, participates in training programs, or both for all of its employees, including people of color and women, and establishes apprenticeship, trainee, and upgrade programs relevant to the Contractor's employment needs.
15. The Contractor conducts, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourages all employees to seek and prepare appropriately for such opportunities.
16. The Contractor ensures the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

ATTACHMENT D
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ATTACHMENT E
SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

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

- 1) Standard Specifications for Public Works Construction (The GREENBOOK) currently in effect.
 - 2) The City of San Diego Standard Specifications for Public Works Construction (The WHITEBOOK).
-

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

1-2 TERMS AND DEFINITIONS.

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

The Normal Working Hours are 8:30 AM to 3:30 PM.

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

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 later than 5 Working Days after the determination of the Apparent Low Bidder** and on a City form when provided by the City.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

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

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

7-3.1 Policies and Procedures.

1. You must procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You must maintain this insurance for the duration of this contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this contract.
4. Payment for insurance is included in the various items of Work as bid by you, and except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any work under this contract until you have provided and the City has approved all required insurance.
5. Policies of insurance must provide that the City is entitled to 30 days (10 days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

1. Commercial General Liability Insurance must be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy must cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
3. There must be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You must maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense must be outside the policy limits. Policy coverage must be in liability limits of not less than the following:

<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:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
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.

7-10.5.3 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 City Supplement, fourth paragraph, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

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

7-8.6 Water Pollution Control. ADD the following:

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

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

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

SECTION 9 - MEASUREMENT AND PAYMENT

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

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

ADD:

9-3.7 Compensation Adjustments for Price Index Fluctuations. This Contract is 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, ADD the following:

RPMS Type II shall be used on this contract.

SECTION 209 – STREET LIGHTING AND TRAFFIC SIGNAL MATERIALS

ADD:

209-5.4 Microwave Detector for Intersection Control.

1. Purpose

The purpose of this specification is to define a microwave based sensor that will detect trucks, vehicles, motorcycles and bicycles and send a signal representative of a loop type detector in a presence mode to a traffic controller device. Herein are the specification and minimum requirements for this sensor in preparation of purchasing and operating the sensor in the field. The sensor shall be easily installed with minimum effort and shall be easy to set up and program. The sensor shall operate in the field under harsh environments and shall be immune to the effects of weather, sunlight, night problems, headlight glare, and not be susceptible to in-road breakage. It shall not be necessary to mount any hardware in the roadway, or above the roadway. The sensor shall be immune to all privacy issues that other detection devices may have.

2. Environmental/Power Requirements

The sensor shall function in the field without any degradation of operation within the following temperature range: -40°C to + 85°C.

The sensor plus interface board shall operate with 24DVC supplied to the interface board card and require no other power supplies. Total current shall be no more than 415mA at anytime during operation with no output active. Typical is 360mA with no output active.

Operation shall be within 20 seconds from a cold start up. Full operation shall be no greater than 2 minutes, and provide for full automatic recover from a power failure.

The sensor unit shall be FCC approved.

3. Physical Description

The sensor shall weigh no more than 5.5 pounds, and be no longer than 11 inches, no wider than 8.5 inches and no higher than 7 inches.

4. Operation

The sensor shall be a microwave-based motion and presence sensor used for intersection control. The sensor shall interface with a traffic control cabinet, and shall output signals when vehicles are present in user defined zones. These zones shall be able to be created on site using an X-Y coordinate system, and have its operation verified and optimized using a laptop with Internet Explorer™ 6.0 or greater as part of the installation process or resident on the PC.

The sensor shall allow the user to create up to eight (8) zones and assign vehicle presence in each of these zones with up to four (4) outputs to the control cabinet – representing phase movements. Detection zones shall be able to be created to a maximum distance of 300 feet from the sensor itself.

The sensor shall track the presence of a vehicle in a detection zone for a predetermined time, user selectable from 0 to 960 seconds.

The sensor shall be able to track up to 32 moving and stationary vehicles simultaneously. Each vehicle shall be tracked using its X-Y coordinates to determine the vehicle's location.

The sensor shall update the X-Y coordinates typically 20 times per second.

The sensor range from the front of the sensor shall be a minimum of 50 feet to a maximum of 400 feet.

The sensor shall be able to program eight (8) independent zones, and provide up to four independent optical isolated outputs to the controller cabinet inputs via one of three optional sensor interface boards (modules).

The sensor shall be able to determine and display the speed of each vehicle in the detection zones.

The sensor shall be able to provide grid tracking for the live interactive zones.

The sensor shall be able to provide a histogram to verify setup of the zones.

The sensor interface shall use either English (standard) or metric units at the option of the user.

The sensor shall be able to provide user defined delay and/or extension times for each zone.

The sensor interface shall be able to provide a graphical representation of the vehicle track as they approach the intersection.

The sensor shall provide a diagnostic and demonstration mode for various operations.

The sensor shall operate via an Ethernet interface with power supplied over the Ethernet connector (POE).

5. Mounting

The sensor is to be mounted for head-on (front fire) detection of approaching vehicles. When mounted on a pole a maximum 30 degree offset from the traffic direction shall be allowed to provide for optimal operation.

The sensor shall operate optimally, and shall be mounted on a pole at a height from 14 to 19 feet.

The range of operation shall be from 50 feet to 400 feet from the front of the sensor.

Mounting hardware shall be supplied with each sensor to allow the device to be attached to a pole with standard stainless steel strapping bands.

6. Radar

The sensor shall support five (5) selectable channels of microwave operation and operate in the FSK-4 mode.

24.075 GHz

24.100 GHz

24.125 GHz

24.150 GHz

24.175 GHz

The beam angle shall be an Azimuth of 25 degrees to 100 feet, and then 20 degrees out to 400 feet. The elevation shall be 12 degrees.

7. Interface Boards

Interface boards shall be optionally available for the sensor and shall be compatible with NEMA, 170, 179 and 2070 cabinets. For each sensor one interface board shall be required and supplied as required by the user.

The Interface board shall communicate with the controller cabinet. The interface board shall meet the requirements of CALTRANS 170/2070 222 and 224 modules with respect to size and form.

There shall be three optional Interface boards available with the following functions:

- There shall be a two (2) output Interface board that fits in a single input file slot.
- There shall be a four (4) output Interface board that fits in a double input file slot.
- There shall be a four (4) output Interface board that fits in a single input file slot.

8. Interface Board – Operation

The interface board shall operate at 24VDC and provide the power supply for the sensor over the Ethernet cable.

The Interface board shall have up to four (4) LEDs to indicate the activity of each zone. (Only 2 LEDs are active on the 2 channel board).

Each output shall be optically isolated with a LED status indicator.

There shall be an indication for a fault mode (no Ethernet connection) such that all LEDs and Opto-isolators are on. This action shall place calls on the traffic controller.

There shall be an RS-232 port for diagnostics on each Interface board.

The Interface board shall provide power and short circuit protection for the sensor.

The Interface board shall automatically recover from a power failure and start up within 20 seconds of a cold start.

The Interface board shall be hot swappable and shall be able to be plugged in and out of the input file slot without adversely effecting its operation. (Unplugging of the Interface board shall take power off the Interface board and off the sensor.)

209-6.4 Induction Cobra Head Luminaire. To the City Supplement, CORRECT certain section numbering as follows:

OLD SECTION NUMBER	TITLE	NEW SECTION NUMBER
209-6.4.7	Luminaire Identification	209-6.4.8
209-6.4.8	Photometric Documentation	209-6.4.9
209-6.4.9	Quality Assurance	209-6.4.10

SECTION 300 – EARTHWORK

300-1.1 General. ADD the following:

Prior to submittal of a Bid for this Work, the Contractor shall inspect the project site to verify the magnitude and cost of all clearing and grubbing required to accomplish the Work.

Clearing and grubbing shall also include saw cutting, demolition, removal, and disposal of all existing improvements (up to 22”) including, but not limited to, soil, pavement (Asphalt Concrete, Base, Unclassified Materials), sidewalk, curb and gutter, abandoned utilities and utility structures (pull boxes, etc.), and all other existing improvements that are shown on the plans for removal, directed by the Resident Engineer to be removed, or otherwise required to perform the work.

300-1.4 Payment. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

The lump sum price paid for Clearing and Grubbing shall include full compensation for the sawcutting, removal, protection, and disposal of any and all PCC Pavement, AC Pavement, Base Material, soil, driveway, sidewalk, curb & gutter, medians, bollards, street light foundation, landscaping, irrigation, and any other materials and objects that are in conflict with the installation of the Work as shown on the Plans.

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 306 – UNDERGROUND CONDUIT CONSTRUCTION

306-1 OPEN TRENCH OPERATIONS. To the City Supplement, CORRECT certain section numbering as follows:

OLD SECTION NUMBER	TITLE	NEW SECTION NUMBER
306-1.8	House Connection Sewer (Laterals) and Cleanouts	306-1.9
306-1.7.1	Payment	306-1.9.1
306-1.7.2	Sewer Lateral with Private Replumbing	306-1.9.2
306-1.7.2.1	Location	306-1.9.2.1
306-1.7.2.2	Permits	306-1.9.2.2
306-1.7.2.3	Submittals	306-1.9.2.3
306-1.7.2.4	Trenchless Construction	306-1.9.2.4
306-1.7.2.5	Payment	306-1.9.2.5
306-1.7.3.6	Private Pump Installation	306-1.9.2.6
306-1.7.3.7	Payment	306-1.9.2.7

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

Payment for imported backfill when the Contractor elects to import material from a source outside the project limits and when authorized by the Engineer shall be included in the Bid unit price for Imported Backfill. The price shall include the removal and disposal of unsuitable materials.

SECTION 307 – STREET LIGHTING AND TRAFFIC SIGNAL SYSTEMS

307- 1.1 GENERAL. To the City Supplement, ADD the following:

4. The PVC conduit installation under City’s road pavement shall use directional boring method or as directed by the Engineer.

**SECTION 314 – TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND
PAVEMENT MARKERS**

314-4.4.6 **Payment.** ADD the following:

The payment for thermoplastic traffic stripes shall include the removal of existing conflicting thermoplastic striping by grinding.

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.)

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- 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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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

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 7 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

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

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 8 OF 10	EFFECTIVE DATE October 15, 2002
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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.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 9 OF 10	EFFECTIVE DATE October 15, 2002
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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.

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

- 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.) Zip:	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, if so, explain:		
Estimated Duration of Meter Use:		Check Box if Reclaimed Water

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
*Business license#		*Contractor license#	
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			Phone: ()
Site Contact Name and Title:			Phone: ()
Responsible Party Name:			Title:
Cal ID#			Phone: ()
Signature:		Date:	
<small>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</small>			

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

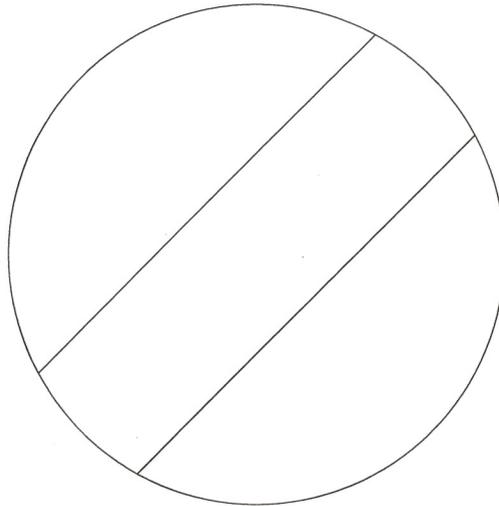
Materials Typically Accepted by Certificate of Compliance

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

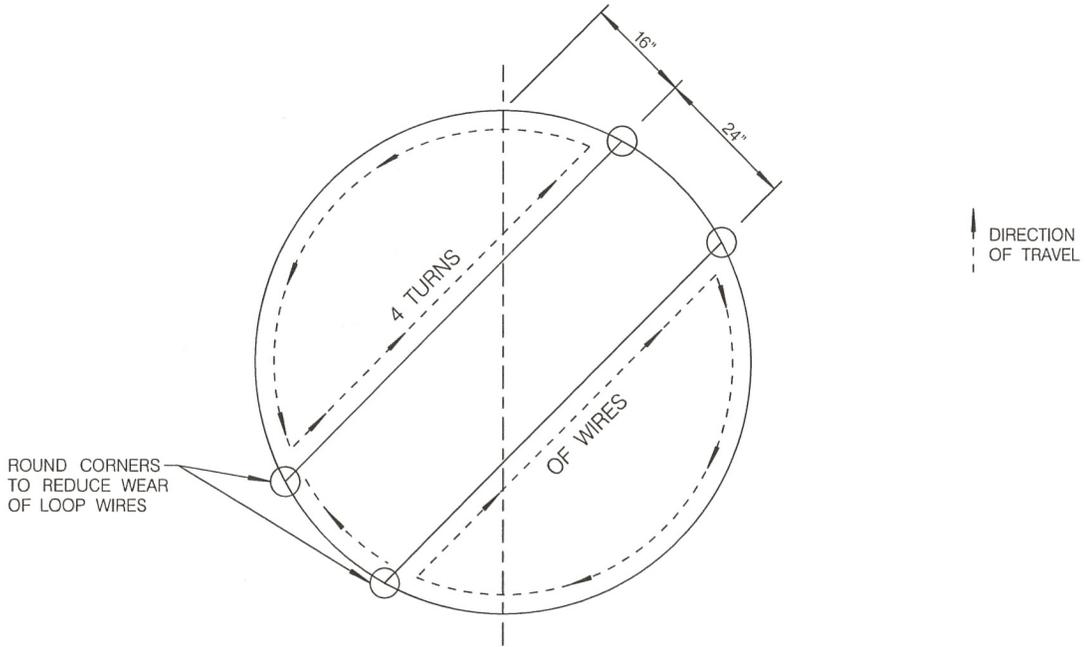
APPENDIX C
SAMPLE CITY INVOICE

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123						Contractor's Name:						
Project Name:						Contractor's Address:						
Work Order No or Job Order No.												
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											(\$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
TYPE E MODIFIED LOOP



PLAN DRAWING SYMBOL



SAWCUT & WINDING DETAIL

NOTES:

1. LOOP DIAMETER = 6' TYP
2. DEPTH OF CUT = 3 1/8" MIN
3. NO LOOPS SHALL BE CUT INTO BRIDGE DECKS

MODIFIED TYPE E LIMIT LINE / CROSSWALK DETECTOR

SHEET 1 OF 2

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

CITY OF SAN DIEGO - STANDARD DRAWING

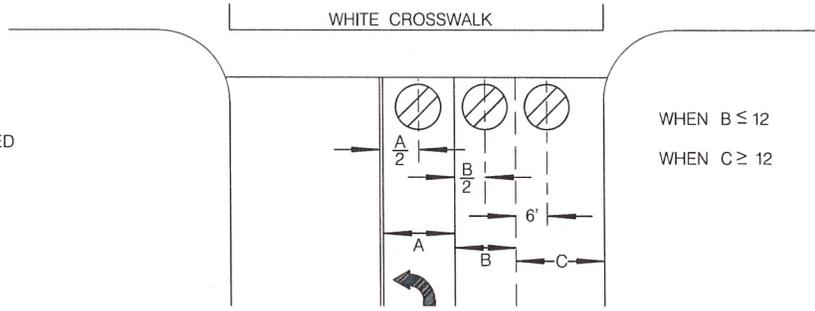
RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE
J. Nagelvoort
12/17/2012
COORDINATOR R.C.E. 65271 DATE

TYPE E MODIFIED LOOP

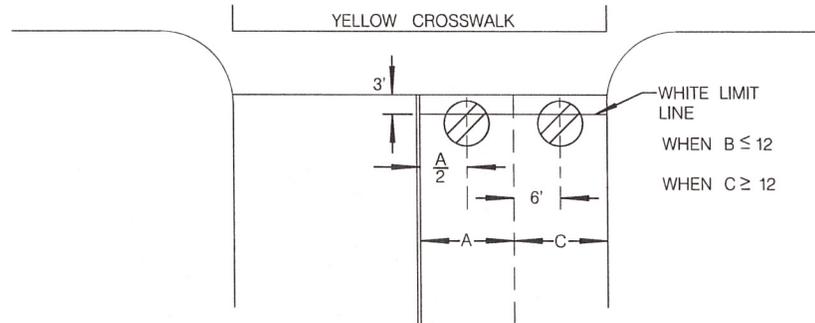
DRAWING NUMBER **SDE-104**

NOTES:

1. ALL FRONT LOOPS SHALL BE MODIFIED TYPE "E" LOOPS
2. FRONT LOOPS, SHALL BE INSTALLED IN FRONT OF THE LIMIT LINE OR CROSSWALK ACTING AS A LIMIT LINE



CASE "1"



CASE "2"

FRONT LOOP REPLACEMENT

SHEET 2 OF 2

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

CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

R. H. Haddi

12/17/2012

COORDINATOR R.C.E. 65271 DATE

TYPE E MODIFIED LOOP

DRAWING NUMBER

SDE-104

ATTACHMENT F
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ENGINEER OF WORK

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



Registered Engineer

2/27/14
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 2

1. To BIDDING DOCUMENTS, Proposal (BID), pages 10 through 20, **DELETE** in their entirety and **SUBSTITUTE** with pages 4 through 14 of this Addendum.

James Nagelvoort, Director
Public Works Department

Dated: February 27, 2014
San Diego, California

JN/BD/lad

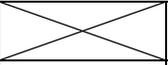
BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Traffic Signal Modifications FY 2011**, 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							
COMMON ITEMS							
1	1	LS	238210	9-3.4.1	Mobilization	 	\$
2	1	AL		9-3.5	Field Orders - Type II	 	\$40,000.00
3	1	LS	238210	2-4.1	Bonds (Payment and Performance)	 	\$
4	1	LS	237310	7-10.2.6	Traffic Control Design	 	\$
5	1	LS	237310	7-10.2.6	Traffic Control	 	\$
6	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	 	\$
7	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	 	\$
BALABOA AND CLAIREMONT DRIVE (SHT 2)							
8	1	EA	238210	9-3.1	Remove Existing & Install Mast Arm Mounted (R73-6CA)	\$	\$
9	4	EA	237310	9-3.1	F & I Type K marker Sign & Post	\$	\$
10	4	EA	237310	303-5.9	Cut Back, Reconstruct Raised Median & Paint Nose Yellow	\$	\$
11	8	EA	237310	307-2	Remove / Salvage PPB	\$	\$

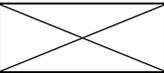
BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
12	1	EA	237310	307-2	Remove / Salvage Vehicle Signal SV-1-T	\$	\$
13	1	EA	237310	307-2	Furnish and Install Median Sign Panel and Post	\$	\$
14	8	EA	238210	307-2	Furnish & Install Pedestrian Countdown Timer Module in Exist. Ped. Housing	\$	\$
15	1	EA	238210	307-2	Furnish & Install 12" SV-1-T Vehicular Signal (3-Ssection Head)	\$	\$
16	1	EA	238210	307-2	Furnish & Install 12" Veh. Signals 5-sect (SV-1-T)	\$	\$
17	8	EA	238210	307-2	Furnish & Install ADA Push Button Type B w/ Sign	\$	\$
18	500	LF	238210	307-2	Furnish & Install New Cable/Conductors (DLC, 12-Conductors)	\$	\$
19	7	EA	238210	307-2	Furnish & Install Modified & Type E Detector Loops	\$	\$
20	2	EA	238210	307-2	Install Conduit into Exist. Pull Box (CB)	\$	\$
21	4	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$	\$
22	1500	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$	\$
GENESEE AVE AND GOVERNOR DRIVE (SHT3 & SHT 7)							
23	1	LS	238910	300-1.4	Clearing & Grabbing		\$
24	2562	SF	237310	302-5.9	Asphalt Concrete Pavement	\$	\$
25	750	LF	237310	303-5.9	Type B-3 Median-Curb & Gutter per SDG-154	\$	\$
26	1650	SF	237310	303-5.9	4" PCC Median at Genesee Ave and Governor Dr	\$	\$
27	6	EA	237310	307-2	Furnish and Install Median Sign Panel and Post	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
28	2	EA	237310	307-2	Remove / Salvage PPBP, Equipment & Foundation	\$	\$
29	3	EA	237310	307-2	Remove/Salvage Type A-1, Equipment & Foundation	\$	\$
30	3	EA	237310	307-2	Remove/Salvage Streetlight/Signal Pole, Equipment & Foundation	\$	\$
31	2	EA	237310	307-2	Remove / Salvage PPB	\$	\$
32	1	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-55' Mast Arm	\$	\$
33	1	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-50' Mast Arm	\$	\$
34	1	EA	238210	307-2	Furnish & Install Type 26-4-100 Pole/Foundation-45' Mast Arm	\$	\$
35	4	EA	238210	307-2	Furnish & Install SP-2-T Pedestrian Signal - Countdown	\$	\$
36	1	EA	238210	307-2	Furnish & Install 12" SV-1-T Vehicular Signal (3-Section Head)	\$	\$
37	3	EA	238210	307-2	Furnish & Install 12" SV-2-TB Vehicular Signal (3-Section Head)	\$	\$
38	6	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$	\$
39	8	EA	238210	307-2	Furnish & Install ADA Push Button Type B w/ Sign	\$	\$
40	85	LF	238210	307-2	Furnish & Install 2" Conduit (Directional Boring) with Conductors	\$	\$
41	244	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$	\$
42	32	EA	238210	307-2	Furnish & Install Modified & Type E Detector Loops	\$	\$
43	1	EA	238210	307-2	Furnish & Install 3'x5' Type Q Loops	\$	\$
44	3	EA	238210	307-2	Install Conduit into Exist. Pull Box (CB)	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
45	3	EA	238210	307-2	Furnish & Install #6 Pull Box	\$	\$
46	4	EA	238210	307-2	Furnish & Install #5 Pull Box	\$	\$
47	2	EA	238210	307-2	EVPE for 2 Approaches (Dual)	\$	\$
48	2	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$	\$
49	2	EA	238210	307-2	Furnish & Install 85W Induction Luminaires	\$	\$
50	1	EA	238210	307-2	SP-1-T Pedestrian Signal w/ Count-Down	\$	\$
51	2	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$	\$
52	4	EA	237310	9-3.1	F & I Type K marker Sign & Post	\$	\$
53	3	EA	237310	303-5.9	Cut Back, Reconstruct raised Median & Paint Nose Yellow	\$	\$
54	828	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$	\$
55	1	LS	238210	307-2	Intercept Ex. 2"Conduit, 90 Degree Sweep & Straight Coupling		\$
56	150	SF	237310	314-4.4.6	Thermoplastic Pavement Markings	\$	\$
57	2600	LF	237310	314-4.3.7	Painted Traffic Striping and Curb Markings	\$	\$
8TH AVENUE AND E STREET (SHT 4)							
58	4	EA	237310	307-2	Remove/Salvage Streetlight/Signal Pole, Equipment & Foundation	\$	\$
59	2	EA	238210	307-2	Furnish & Install Type 19-1-100 Pole/Foundation (30' Mast Arm)	\$	\$
60	4	EA	238210	307-2	Furnish & Install Pedestrian Push Button Pole/Foundation	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
61	1	EA	238210	307-2	Remove & Relocate Electric Meter to New Type III Location	\$	\$
62	1	EA	238210	307-2	Furnish & Install Type III Electric Service	\$	\$
63	2	EA	238210	307-2	EVPE for 1 Approach	\$	\$
64	8	EA	238210	307-2	Polara 2-Wire Navigator APS Station w/ Type 800-59 Sign	\$	\$
65	1	EA	238210	307-2	Polara CCU II EN Control Unit	\$	\$
66	1	EA	238210	307-2	Polara Configurator	\$	\$
67	1	EA	238210	307-2	F & I Polara Control System with vent (Hoffman Alum) at Controller Complete	\$	\$
68	1	EA	238210	307-2	Furnish & Install #5 Pull Box	\$	\$
69	7	EA	238210	307-2	Furnish & Install #6 Pull Box	\$	\$
70	100	LF	238210	307-2	Furnish & Install 2" Conduit (Directional Boring) with Conductors	\$	\$
71	228	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$	\$
72	2	EA	238210	307-2	Furnish & Install 12" SV-1-T Vehicular Signal (3-Section Head)	\$	\$
73	2	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$	\$
74	2	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$	\$
75	2	EA	238210	307-2	Furnish & Install Pedestrian Countdown Timer Module in Exist. Ped. Housing	\$	\$
76	2	EA	238210	307-2	SP-2-T Pedestrian Signal w/ Count-Down	\$	\$
77	4	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
78	3444	SF	237310	302-5.9	Asphalt Concrete Pavement	\$	\$
79	420	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$	\$
CLAIREMONT MESA BOULEVARD AND GENESEE AVENUE (SHT 5)							
80	2	EA	237310	307-2	Remove / Salvage PPBP, Equipment & Foundation	\$	\$
81	5	EA	237310	307-2	Remove/Salvage Type A-1/F51, Equipment & Foundation	\$	\$
82	3	EA	237310	307-2	Remove/Salvage streetlight/Signal Pole, Equipment & Foundation	\$	\$
83	2	EA	238210	307-2	EVPE for 2 Approaches (Dual)	\$	\$
84	2	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-55' Mast Arm	\$	\$
85	1	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-50' Mast Arm	\$	\$
86	2	EA	238210	307-2	Furnish & Install Pedestrian Push Button Pole/Foundation	\$	\$
87	3	EA	238210	307-2	Furnish & Install 12" SV-2-TB Vehicular Signal (3-Section Head)	\$	\$
88	6	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$	\$
89	4	EA	238210	307-2	Furnish & Install SP-2-T Pedestrian Signal - Countdown	\$	\$
90	8	EA	238210	307-2	Polara 2-Wire Navigator APS Station w/ Type 800-59 Sign	\$	\$
91	1	EA	238210	307-2	Polara CCU II EN Control Unit	\$	\$
92	116	LF	238210	307-2	Pole 3-Conductor Cable (Push Button)	\$	\$
93	536	LF	238210	307-2	Pole 12-Conductor Cable (Phase Signal, Peds-walk, Ground & Spares)	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
94	186	LF	238210	307-2	Pole #10 Conductor (Lighting)	\$	\$
95	4	EA	238210	307-2	Furnish & Install #6 Pull Box	\$	\$
96	1	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$	\$
97	2	EA	238210	307-2	Furnish & Install 85W Induction Luminaires	\$	\$
98	3	EA	238210	9-3.1	Install Mast-arm Mounted or Side-mounted Sign	\$	\$
99	5	EA	238210	307-2	Furnish & Install Microwave Intersector Complete w/ Programming	\$	\$
100	825	LF	238210	307-2	Furnish & Install Cat5 Cable	\$	\$
101	2	EA	237310	303-5.9	Cut Back, Reconstruct Raised Median & Paint Nose Yellow	\$	\$
102	1	EA	237310	303-5.10.2	Construct Modified Curb Ramp Type A with Stainless Steel Detectable Warning Tiles	\$	\$
103	1	EA	237310	303-5.10.2	Construct Curb Ramp Type C1 with Stainless Steel Detectable Warning Tiles	\$	\$
104	360	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$	\$
105	3780	SF	237310	302-5.9	Asphalt Concrete Pavement	\$	\$
106	1000	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$	\$
107	1	EA	237310	303-5.10.2	Construct Curb Ramp Type C2 with Stainless Steel Detectable Warning Tiles	\$	\$
108	4	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$	\$
109	2	EA	237310	9-3.1	F & I Type K marker Sign & Post	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
56TH STREET AND EL CAJON BOULEVARD (SHT 6)							
110	2	EA	237310	307-2	Remove/Salvage Type A-1/F51, Equipment & Foundation	\$	\$
111	8	EA	237310	307-2	Remove / Salvage PPB	\$	\$
112	1	EA	238210	307-2	Furnish & Install Type 24-3-100 Pole/Foundation-35' Mast Arm	\$	\$
113	1	LF	238210	307-2	Furnish & Install Type 17-2-100 Pole/Foundation-20' Mast Arm	\$	\$
114	1	EA	238210	307-2	EVPE for 2 Approaches (Dual)	\$	\$
115	8	EA	238210	307-2	Polara 2-Wire Navigator APS Station w/ Type 800-59 Sign	\$	\$
116	1	EA	238210	307-2	Polara CCU II EN Control Unit	\$	\$
117	4	EA	238210	307-2	Furnish & Install #6 Pull Box	\$	\$
118	2	EA	238210	307-2	Furnish & Install 12" SV-2-TB Vehicular Signal (3-Section Head)	\$	\$
119	2	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$	\$
120	4	EA	238210	307-2	Furnish & Install SP-2-T Pedestrian Signal - Countdown	\$	\$
121	2	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$	\$
122	25	LF	238210	307-2	Furnish & Install 2" Conduit (Open Trench) with Conductors	\$	\$
123	220	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$	\$
124	2310	SF	237310	302-5.9	Asphalt Concrete Pavement	\$	\$
125	4	EA	238210	307-2	Furnish & Install Microwave Intersector Complete w/ Programming	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
126	490	LF	238210	307-2	Furnish & Install Cat5 Cable	\$	\$	
127	3	EA	237310	303-5.10.2	Construct Modified curb ramp Type A with Stainless Steel Detectable Warning Tiles	\$	\$	
128	1	EA	237310	303-5.10.2	Construct Modified Curb Ramp Type C1 with Stainless Steel Detectable Warning Tiles & Curb Return Mod	\$	\$	
129	2	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$	\$	
130	2	EA	238210	307-2	Install Conduit into Exist. Pull Box (CB)	\$	\$	
131	400	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$	\$	
ESTIMATED TOTAL BASE BID:							\$	

TOTAL BID PRICE FOR BID (Items 1 through 131 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:

BIDDING DOCUMENTS

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

Bidder: _____

Title: _____

Business Address: _____

Place of Business: _____

Place of Residence: _____

Signature: _____

NOTES:

- A. The City shall determine the low Bid based on the Base Bid alone.
- B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.

BIDDING DOCUMENTS

- G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

City of San Diego

CITY CONTACT: Clementina Giordano - Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633



ADDENDUM "B"

FOR

TRAFFIC SIGNAL MODIFICATIONS FY 2011

BID NO.: K-14-5953-DBB-3
SAP NO. (WBS/IO/CC): B-11108
CLIENT DEPARTMENT: 2116
COUNCIL DISTRICT: CityWide
PROJECT TYPE: IL

BID DUE DATE:

2:00 PM
MARCH 26, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

James Nagelvoort, Director
Public Works Department

Dated: *March 10, 2014*
San Diego, California

JN/BD/lad

City of San Diego

CITY CONTACT: Clementina Giordano - Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633



ADDENDUM "C"

FOR

TRAFFIC SIGNAL MODIFICATIONS FY 2011

BID NO.: _____ K-14-5953-DBB-3
SAP NO. (WBS/IO/CC): _____ B-11108
CLIENT DEPARTMENT: _____ 2116
COUNCIL DISTRICT: _____ CityWide
PROJECT TYPE: _____ IL

BID DUE DATE:

**2:00 PM
MARCH 26, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101**

ENGINEER OF WORK

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


Registered Engineer

3/11/14
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 ATTACHMENT E, Supplementary Special Provisions, Section 209 Street Lighting and Traffic Signal Materials, page 42, ADD the following:

209-4.5 (86-4,05I) Accessible Pedestrian Signals. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Accessible pedestrian signal shall consist of an integrated push button assembly with vibrotactile button, programmable verbal custom Voice on Location (VOL) message, locator tone with automatic volume adjustment to ambient noise, to include programming of Navigator Pushbutton and Central Control Unit.

James Nagelvoort, Director
Public Works Department

Dated: *March 11, 2014*
San Diego, California

JN/BD/lad

3/28/14 CW

City of San Diego

CONTRACTOR'S NAME: PERILY ELECTRIC (OO)
 ADDRESS: _____
 TELEPHONE NO.: _____ FAX NO.: _____
 CITY CONTACT: Clementina Giordano, Contract Specialist, Email: CGiordano@sanidiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633
DZhang /BDoringo/LAD

CONTRACT DOCUMENTS



FOR

TRAFFIC SIGNAL MODIFICATIONS FY 2011

VOLUME 2 OF 2

BID NO.: _____ K-14-5953-DBB-3
 SAP NO. (WBS/IO/CC): _____ B-11108
 CLIENT DEPARTMENT: _____ 2116
 COUNCIL DISTRICT: _____ CityWide
 PROJECT TYPE: _____ IL

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- BID DISCOUNT PROGRAM (The WHITEBOOK, SLBE-ELBE Program Requirements, Section IV(2))
- PREVAILING WAGE RATES: STATE FEDERAL

**THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY
 REFER TO VOLUME 1 COVER PAGE FOR TIME, DATE, AND LOCATION**

TABLE OF CONTENTS

DESCRIPTION

PAGE NUMBER

Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Include the form(s) even if the information does not apply. Where the information does not apply write in N/A. Failure to include any of the forms may cause the Bid to be deemed **non-responsive**. If you are uncertain or have any questions about any required information, contact the City no later than 14 days prior to Bid due date.

- 1. Bid/Proposal..... 3
- 2. Bid Bond 6
- 3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106 7
- 4. Contractors Certification of Pending Actions 8
- 5. Equal Benefits Ordinance Certification of Compliance..... 9
- 6. Proposal (Bid) 10
- 7. Form AA35 - List of Subcontractors 21
- 8. Form AA40 - Named Equipment/Material Supplier List 22

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:

- (1) Name under which business is conducted TEM Electric, Inc. DBA Perry Electric
- (2) Signature (Given and surname) of proprietor  - Todd Perry
- (3) Place of Business (Street & Number) 10765 Woodside Ave. Ste. B,
- (4) City and State Santee, CA Zip Code 92071
- (5) Telephone No. (619) 449-0045 Facsimile No. (619) 449-0511
- (6) Email Address info@perryelectric.com

BIDDING DOCUMENTS

IF A PARTNERSHIP, SIGN HERE:

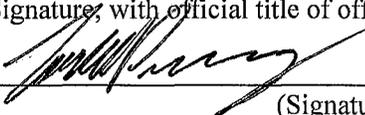
- (1) Name under which business is conducted _____
- (2) Name of each member of partnership, indicate character of each partner, general or special (limited):

- (3) Signature (Note: Signature must be made by a general partner)

Full Name and Character of partner

- (4) Place of Business (Street & Number) _____
- (5) City and State _____ Zip Code _____
- (6) Telephone No. _____ Facsimile No. _____
- (7) Email Address _____

IF A CORPORATION, SIGN HERE:

- (1) Name under which business is conducted T&M Electric, Inc. DBA Perry Electric
- (2) Signature, with official title of officer authorized to sign for the corporation:


(Signature)
Todd Perry

(Printed Name)
President

(Title of Officer)

(Impress Corporate Seal Here)
- (3) Incorporated under the laws of the State of California
- (4) Place of Business (Street & Number) 10765 Woodside Ave. Ste. B
- (5) City and State Santee, CA Zip Code 92071

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: J&M Electric, Inc. DBA Perry Electric Contact Name: Todd Perry
 Company Address: 10765 Woodside Ave. Ste. B Contact Phone: (619) 449-0045
Santee, CA 92071 Contact Email: info@perryelectric.com

CONTRACT INFORMATION

Contract Title: Traffic Signal Modifications FY 2011 Start Date:
 Contract Number (if no number, state location): CityWide End Date:

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.

 Name/Title of Signatory Signature Date 3/10/14

FOR OFFICIAL CITY USE ONLY

Receipt Date: EBO Analyst: Approved Not Approved – Reason:

rev 02/15/2011

Todd Perry, President
 Name/Title of Signatory

Todd Perry
 Signature

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Traffic Signal Modifications FY 2011**, 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							
COMMON ITEMS							
1	1	LS	238210	9-3.4.1	Mobilization	 	\$35,000.00
2	1	AL		9-3.5	Field Orders - Type II	 	\$40,000.00
3	1	LS	238210	2-4.1	Bonds (Payment and Performance)	 	\$12,344.00
4	1	LS	237310	7-10.2.6	Traffic Control Design	 	\$ 1,000.00
5	1	LS	237310	7-10.2.6	Traffic Control	 	\$35,000.00
6	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	 	\$ 525.00
7	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	 	\$10,000.00
BALABOA AND CLAIREMONT DRIVE (SHT 2)							
8	1	EA	238210	9-3.1	Remove Existing & Install Mast Arm Mounted (R73-6CA)	\$ 300.00	\$ 300.00
9	4	EA	237310	9-3.1	F & I Type K marker Sign & Post	\$ 200.00	\$ 800.00
10	4	EA	237310	303-5.9	Cut Back, Reconstruct Raised Median & Paint Nose Yellow	\$5,050.00	\$20,200.00
11	8	EA	237310	307-2	Remove / Salvage PPB	\$ 100.00	\$ 800.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
12	1	EA	237310	307-2	Remove / Salvage Vehicle Signal SV-1-T	\$ 200.00	\$ 200.00
13	1	EA	237310	307-2	Furnish and Install Median Sign Panel and Post	\$ 400.00	\$ 400.00
14	8	EA	238210	307-2	Furnish & Install Pedestrian Countdown Timer Module in Exist. Ped. Housing	\$ 350.00	\$ 2,800.00
15	1	EA	238210	307-2	Furnish & Install 12" SV-1-T Vehicular Signal (3-Ssection Head)	\$ 550.00	\$ 550.00
16	1	EA	238210	307-2	Furnish & Install 12" Veh. Signals 5-sect (SV-1-T)	\$ 900.00	\$ 900.00
17	8	EA	238210	307-2	Furnish & Install ADA Push Button Type B w/ Sign	\$ 175.00	\$ 1,400.00
18	500	LF	238210	307-2	Furnish & Install New Cable/Conductors (DLC, 12-Conductors)	\$ 2.00	\$ 1,000.00
19	7	EA	238210	307-2	Furnish & Install Modified & Type E Detector Loops	\$ 400.00	\$ 2,800.00
20	2	EA	238210	307-2	Install Conduit into Exist. Pull Box (CB)	\$ 250.00	\$ 500.00
21	4	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$ 1,000.00	\$ 4,000.00
22	1500	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$ 2.85	\$ 4,275.00
GENESEE AVE AND GOVERNOR DRIVE (SHT3 & SHT 7)							
23	1	LS	238910	300-1.4	Clearing & Grabbing	 	\$ 6,000.00
24	2562	SF	237310	302-5.9	Asphalt Concrete Pavement	\$ 6.00	\$ 15,372.00
25	750	LF	237310	303-5.9	Type B-3 Median-Curb & Gutter per SDG-154	\$ 35.00	\$ 26,250.00
26	1650	SF	237310	303-5.9	4" PCC Median at Genesee Ave and Governor Dr	\$ 12.00	\$ 19,800.00
27	6	EA	237310	307-2	Furnish and Install Median Sign Panel and Post	\$ 400.00	\$ 2,400.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
28	2	EA	237310	307-2	Remove / Salvage PPBP, Equipment & Foundation	\$ 400.00	\$ 800.00
29	3	EA	237310	307-2	Remove/Salvage Type A-1, Equipment & Foundation	\$ 600.00	\$ 1,800.00
30	3	EA	237310	307-2	Remove/Salvage Streetlight/Signal Pole, Equipment & Foundation	\$ 1,000.00	\$ 3,000.00
31	2	EA	237310	307-2	Remove / Salvage PPB	\$ 100.00	\$ 200.00
32	1	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-55' Mast Arm	\$ 11,300.00	\$ 11,300.00
33	1	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-50' Mast Arm	\$ 11,000.00	\$ 11,000.00
34	1	EA	238210	307-2	Furnish & Install Type 26-4-100 Pole/Foundation-45' Mast Arm	\$ 10,000.00	\$ 10,000.00
35	4	EA	238210	307-2	Furnish & Install SP-2-T Pedestrian Signal - Countdown	\$ 1,000.00	\$ 4,000.00
36	1	EA	238210	307-2	Furnish & Install 12" SV-1-T Vehicular Signal (3-Section Head)	\$ 700.00	\$ 700.00
37	3	EA	238210	307-2	Furnish & Install 12" SV-2-TB Vehicular Signal (3-Section Head)	\$ 1,100.00	\$ 3,300.00
38	6	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$ 500.00	\$ 3,000.00
39	8	EA	238210	307-2	Furnish & Install ADA Push Button Type B w/ Sign	\$ 180.00	\$ 1,440.00
40	85	LF	238210	307-2	Furnish & Install 2" Conduit (Directional Boring) with Conductors	\$ 40.00	\$ 3,400.00
41	244	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$ 40.00	\$ 9,760.00
42	32	EA	238210	307-2	Furnish & Install Modified & Type E Detector Loops	\$ 350.00	\$ 11,200.00
43	1	EA	238210	307-2	Furnish & Install 3'x5' Type Q Loops	\$ 500.00	\$ 500.00
44	3	EA	238210	307-2	Install Conduit into Exist. Pull Box (CB)	\$ 200.00	\$ 600.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
45	3	EA	238210	307-2	Furnish & Install #6 Pull Box	\$ 400.00	\$ 1,200.00
46	4	EA	238210	307-2	Furnish & Install #5 Pull Box	\$ 350.00	\$ 1,400.00
47	2	EA	238210	307-2	EVPE for 2 Approaches (Dual)	\$ 3,400.00	\$ 6,800.00
48	2	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$ 1,000.00	\$ 2,000.00
49	2	EA	238210	307-2	Furnish & Install 85W Induction Luminaires	\$ 900.00	\$ 1,800.00
50	1	EA	238210	307-2	SP-1-T Pedestrian Signal w/ Count-Down	\$ 600.00	\$ 600.00
51	2	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$ 200.00	\$ 400.00
52	4	EA	237310	9-3.1	F & I Type K marker Sign & Post	\$ 200.00	\$ 800.00
53	3	EA	237310	303-5.9	Cut Back, Reconstruct raised Median & Paint Nose Yellow	\$ 5,000.00	\$ 15,000.00
54	828	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$ 4.00	\$ 3,312.00
55	1	LS	238210	307-2	Intercept Ex. 2"Conduit, 90 Degree Sweep & Straight Coupling	 	\$ 400.00
56	150	SF	237310	314-4.4.6	Thermoplastic Pavement Markings	\$ 4.00	\$ 600.00
57	2600	LF	237310	314-4.3.7	Painted Traffic Striping and Curb Markings	\$ 1.50	\$ 3,900.00
8TH AVENUE AND E STREET (SHT 4)							
58	4	EA	237310	307-2	Remove/Salvage Streetlight/Signal Pole, Equipment & Foundation	\$ 500.00	\$ 2,000.00
59	2	EA	238210	307-2	Furnish & Install Type 19-1-100 Pole/Foundation (30' Mast Arm)	\$ 9,000.00	\$ 18,000.00
60	4	EA	238210	307-2	Furnish & Install Pedestrian Push Button Pole/Foundation	\$ 400.00	\$ 1,600.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
61	1	EA	238210	307-2	Remove & Relocate Electric Meter to New Type III Location	\$ 1,500.00	\$ 1,500.00
62	1	EA	238210	307-2	Furnish & Install Type III Electric Service	\$ 2,800.00	\$ 2,800.00
63	2	EA	238210	307-2	EVPE for 1 Approach	\$ 3,500.00	\$ 7,000.00
64	8	EA	238210	307-2	Polara 2-Wire Navigator APS Station w/ Type 800-59 Sign	\$ 900.00	\$ 7,200.00
65	1	EA	238210	307-2	Polara CCU II EN Control Unit	\$ 3,500.00	\$ 3,500.00
66	1	EA	238210	307-2	Polara Configurator	\$ 700.00	\$ 700.00
67	1	EA	238210	307-2	F & I Polara Control System with vent (Hoffman Alum) at Controller Complete	\$ 200.00	\$ 200.00
68	1	EA	238210	307-2	Furnish & Install #5 Pull Box	\$ 350.00	\$ 350.00
69	7	EA	238210	307-2	Furnish & Install #6 Pull Box	\$ 400.00	\$ 2,800.00
70	100	LF	238210	307-2	Furnish & Install 2" Conduit (Directional Boring) with Conductors	\$ 40.00	\$ 4,000.00
71	228	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$ 40.00	\$ 9,120.00
72	2	EA	238210	307-2	Furnish & Install 12" SV-1-T Vehicular Signal (3-Section Head)	\$ 700.00	\$ 1,400.00
73	2	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$ 1,600.00	\$ 3,200.00
74	2	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$ 1,000.00	\$ 2,000.00
75	2	EA	238210	307-2	Furnish & Install Pedestrian Countdown Timer Module in Exist. Ped. Housing	\$ 300.00	\$ 600.00
76	2	EA	238210	307-2	SP-2-T Pedestrian Signal w/ Count-Down	\$ 1,000.00	\$ 2,000.00
77	4	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$ 400.00	\$ 1,600.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
78	3444	SF	237310	302-5.9	Asphalt Concrete Pavement	\$ 6.00	\$ 20,664.00
79	420	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$ 4.00	\$ 1,680.00
CLAIREMONT MESA BOULEVARD AND GENESEE AVENUE (SHT 5)							
80	2	EA	237310	307-2	Remove / Salvage PPBP, Equipment & Foundation	\$ 200.00	\$ 400.00
81	5	EA	237310	307-2	Remove/Salvage Type A-1/F51, Equipment & Foundation	\$ 400.00	\$ 2,000.00
82	3	EA	237310	307-2	Remove/Salvage streetlight/Signal Pole, Equipment & Foundation	\$ 500.00	\$ 1,500.00
83	2	EA	238210	307-2	EVPE for 2 Approaches (Dual)	\$ 3,500.00	\$ 7,000.00
84	2	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-55' Mast Arm	\$11,300.00	\$22,600.00
85	1	EA	238210	307-2	Furnish & Install Type 29-5-100 Pole/Foundation-50' Mast Arm	\$ 11,000.00	\$ 11,000.00
86	2	EA	238210	307-2	Furnish & Install Pedestrian Push Button Pole/Foundation	\$ 400.00	\$ 800.00
87	3	EA	238210	307-2	Furnish & Install 12" SV-2-TB Vehicular Signal (3-Section Head)	\$ 1,100.00	\$ 3,300.00
88	6	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$ 500.00	\$ 3,000.00
89	4	EA	238210	307-2	Furnish & Install SP-2-T Pedestrian Signal - Countdown	\$ 1,000.00	\$ 4,000.00
90	8	EA	238210	307-2	Polara 2-Wire Navigator APS Station w/ Type 800-59 Sign	\$ 900.00	\$ 7,200.00
91	1	EA	238210	307-2	Polara CCU II EN Control Unit	\$ 3,500.00	\$ 3,500.00
92	116	LF	238210	307-2	Pole 3-Conductor Cable (Push Button)	\$ 3.00	\$ 348.00
93	536	LF	238210	307-2	Pole 12-Conductor Cable (Phase Signal, Peds-walk, Ground & Spares)	\$ 3.00	\$ 1,608.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
94	186	LF	238210	307-2	Pole #10 Conductor (Lighting)	\$ 2.00	\$ 372.00
95	4	EA	238210	307-2	Furnish & Install #6 Pull Box	\$ 400.00	\$ 1,600.00
96	1	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$ 1,000.00	\$ 1,000.00
97	2	EA	238210	307-2	Furnish & Install 85W Induction Luminaires	\$ 900.00	\$ 1,800.00
98	3	EA	238210	9-3.1	Install Mast-arm Mounted or Side-mounted Sign	\$ 200.00	\$ 600.00
99	5	EA	238210	307-2	Furnish & Install Microwave Intersector Complete w/ Programming	\$ 6,100.00	\$ 30,500.00
100	825	LF	238210	307-2	Furnish & Install Cat5 Cable	\$ 2.00	\$ 1,650.00
101	2	EA	237310	303-5.9	Cut Back, Reconstruct Raised Median & Paint Nose Yellow	\$ 5,000.00	\$ 10,000.00
102	1	EA	237310	303-5.10.2	Construct Modified Curb Ramp Type A with Stainless Steel Detectable Warning Tiles	\$ 3,000.00	\$ 3,000.00
103	1	EA	237310	303-5.10.2	Construct Curb Ramp Type C1 with Stainless Steel Detectable Warning Tiles	\$ 3,000.00	\$ 3,000.00
104	360	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$ 40.00	\$ 14,400.00
105	3780	SF	237310	302-5.9	Asphalt Concrete Pavement	\$ 6.00	\$ 22,680.00
106	1000	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$ 4.00	\$ 4,000.00
107	1	EA	237310	303-5.10.2	Construct Curb Ramp Type C2 with Stainless Steel Detectable Warning Tiles	\$ 2,500.00	\$ 2,500.00
108	4	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$ 200.00	\$ 800.00
109	2	EA	237310	9-3.1	F & I Type K marker Sign & Post	\$ 200.00	\$ 400.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
56TH STREET AND EL CAJON BOULEVARD (SHT 6)							
110	2	EA	237310	307-2	Remove/Salvage Type A-1/F51, Equipment & Foundation	\$ 500.00	\$ 1,000.00
111	8	EA	237310	307-2	Remove / Salvage PPB	\$ 60.00	\$ 480.00
112	1	EA	238210	307-2	Furnish & Install Type 24-3-100 Pole/Foundation-35' Mast Arm	\$ 9,300.00	\$ 9,300.00
113	1	LF	238210	307-2	Furnish & Install Type 17-2-100 Pole/Foundation-20' Mast Arm	\$ 8,500.00	\$ 8,500.00
114	1	EA	238210	307-2	EVPE for 2 Approaches (Dual)	\$ 3,500.00	\$ 3,500.00
115	8	EA	238210	307-2	Polara 2-Wire Navigator APS Station w/ Type 800-59 Sign	\$ 900.00	\$ 7,200.00
116	1	EA	238210	307-2	Polara CCU II EN Control Unit	\$ 3,500.00	\$ 3,500.00
117	4	EA	238210	307-2	Furnish & Install #6 Pull Box	\$ 400.00	\$ 1,600.00
118	2	EA	238210	307-2	Furnish & Install 12" SV-2-TB Vehicular Signal (3-Section Head)	\$ 1,100.00	\$ 2,200.00
119	2	EA	238210	307-2	Furnish & Install 12" MAS Vehicular Signal (3-Section Head)	\$ 500.00	\$ 1,000.00
120	4	EA	238210	307-2	Furnish & Install SP-2-T Pedestrian Signal - Countdown	\$ 900.00	\$ 3,600.00
121	2	EA	238210	307-2	Furnish & Install 165W Induction Luminaires	\$ 1,000.00	\$ 2,000.00
122	25	LF	238210	307-2	Furnish & Install 2" Conduit (Open Trench) with Conductors	\$ 25.00	\$ 625.00
123	220	LF	238210	307-2	Furnish & Install 3" Conduit (Directional Boring) with Conductors/Cat5	\$ 40.00	\$ 9,800.00
124	2310	SF	237310	302-5.9	Asphalt Concrete Pavement	\$ 6.00	\$ 13,860.00
125	4	EA	238210	307-2	Furnish & Install Microwave Intersector Complete w/ Programming	\$ 6,100.00	\$ 24,400.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
126	490	LF	238210	307-2	Furnish & Install Cat5 Cable	\$ 2.00	\$ 990.00
127	3	EA	237310	303-5.10.2	Construct Modified curb ramp Type A with Stainless Steel Detectable Warning Tiles	\$3,000.00	\$9,000.00
128	1	EA	237310	303-5.10.2	Construct Modified Curb Ramp Type C1 with Stainless Steel Detectable Warning Tiles & Curb Return Mod	\$3,500.00	\$3,500.00
129	2	EA	238210	9-3.1	Install Mast Arm Mounted or Side-mounted Sign	\$ 200.00	\$ 400.00
130	2	EA	238210	307-2	Install Conduit into Exist. Pull Box (CB)	\$ 200.00	\$ 400.00
131	400	LF	237310	314-4.4.6	Grind Existing Limit Line and Crosswalk and Install Thermoplastic Traffic Stripes	\$ 4.00	\$1,600.00
ESTIMATED TOTAL BASE BID:							\$ 726,745.00

TOTAL BID PRICE FOR BID (Items 1 through 131 inclusive) amount written in words:

Seven hundred twenty six thousand Seven hundred Forty Five dollars and zero cents

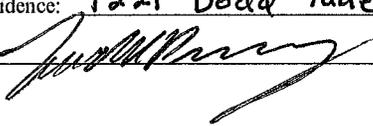
The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being non-responsive. The following addenda have been received and are acknowledged in this bid: Addendum A, B, & C

The names of all persons interested in the foregoing proposal as principals are as follows:

Todd Perry - President

BIDDING DOCUMENTS

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: T&M Electric, Inc. Dba Perry Electric
Title: Todd Perry - President
Business Address: 10765 Woodside Ave. Ste. B, Santee, CA 92071
Place of Business: Santee, CA 92071
Place of Residence: 1221 Dodd Lane, Campo, CA 91906
Signature: 

NOTES:

- A. The City shall determine the low Bid based on the Base Bid alone.
- B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.

BIDDING DOCUMENTS

- G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

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	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Portillo Concrete, Inc.</u> Address: <u>3727 Citrus St.</u> City: <u>Lemon Grove</u> State: <u>Ca</u> Zip: <u>91945</u> Phone: <u>(619)466-4639</u>	Constructor	Concrete	190,262.00	DBE, SDB, HUBZone	CA City	
Name: <u>LST Road Marking</u> Address: <u>Po Box 2426</u> City: <u>El Cajon</u> State: <u>CA</u> Zip: <u>92021</u> Phone: <u>(619)443-7755</u>	Constructor	Road Marking	24,167.00	SLBE, ELBE	CA City	
Name: <u>Appian UDBE SWPPP</u> Address: <u>5720 Olinda Road</u> City: <u>El Sobrante</u> State: <u>CA</u> Zip: <u>94703</u> Phone: <u>(510)854-9402</u>	Designer	Storm Water Pollution Control	525.00	DBE, WBE, MBE	CA City	

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |
- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:
- | | | | |
|--|--------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | San Diego Regional Minority Supplier Diversity Council | SRMSDC |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

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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 SDVOSB	WHERE CERTIFIED
Name: <u>McCain</u> Address: <u>2265 Oakridge Way</u> City: <u>Vista</u> State: <u>CA</u> Zip: <u>92081</u> Phone: <u>(760) 734-3051</u>	<i>Materials Traffic Signal Equipment</i>	164,679.00	Yes	Yes	None	
Name: <u>Western Pacific Signal</u> Address: <u>15790 Foothill Blvd</u> City: <u>San Leandro</u> State: <u>CA</u> Zip: <u>94578</u> Phone: <u>(510) 276-6400</u>	<i>Materials Traffic Signal Equipment</i>	58,279.00	Yes	NO	None	
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	SDVOSB		

② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

CITY OF SAN DIEGO PLANS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL MODIFICATIONS FY 2011

WORK TO BE DONE

CONSTRUCTION CONSISTS OF THE INSTALLATION OF TRAFFIC SIGNAL MODIFICATIONS FY 2011

LEGENDS

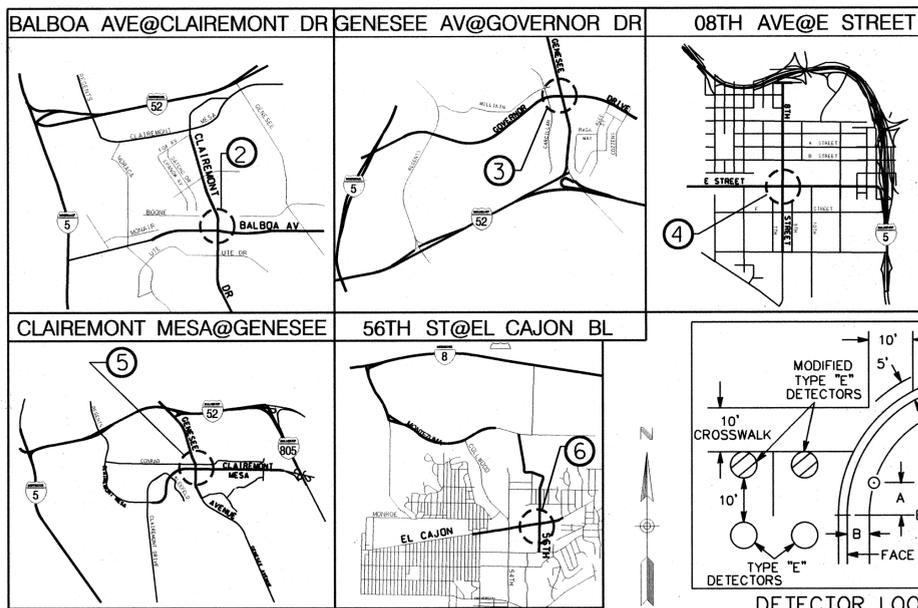
IMPROVEMENT	STD. DWG.	SYMBOL
NEW EQUIPMENT	AS SHOWN	
REMOVED AND SALVAGED EQUIPMENT	AS SHOWN	
2"-3" CONDUIT	SDG-116, 117 & 118	
NO. 5 PULL BOX	CALTRANS ES-8	
CURB RAMP	SDG-130, 132, 134 AND 135	
INTERSECTOR MICROWAVE SENSOR	AS SHOWN	
CURB AND GUTTER-MEDIANS	SDG-154	
AC PAVEMENTS	SDG-113	

SURVEY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTISE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR THE REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT (BUSINESS AND PROFESSIONS (CODE 8771)).

GENERAL NOTES:

- PULL BOXES AND CONDUIT:
 - PULL BOXES ARE NO. 6, UNLESS OTHERWISE NOTED ON THIS PLAN.
 - ALL CONDUIT DEPTH SHALL BE A MINIMUM OF 18" BELOW THE PAVEMENT SURFACE OR 3" BELOW THE BOTTOM OF THE PAVEMENT, WHICHEVER IS GREATER.
 - CONDUIT SHALL BE 3" DIAMETER, UNLESS OTHERWISE NOTED IN THE CONDUCTOR TABLE OR AS SHOWN ON THIS PLAN.
 - NEW CONDUIT INSTALLATION SHALL BE CONSTRUCTED BY HORIZONTAL DIRECTIONAL DRILLING WHEN FEASIBLE OR AS DIRECTED BY RESIDENT ENGINEER.
 - THE EXCAVATION INFLUENCE AREA (5' AROUND THE TRENCH/ POT HOLE, INCLUDES BOTH ENDS) NEEDS TO BE COLD MILLING AND OVERLAID AT MINIMUM 1.5 INCHES.
- LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE.
- THE CONTRACTOR SHALL, PER SECTION 7-10.1.2 OF THE CONTRACT DOCUMENTS SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL PLANS AND SHALL CALL THE ENGINEERING TRAFFIC CONTROL SECTION, AT (858) 495-4741, FOR AN APPOINTMENT TO APPLY FOR A TRAFFIC CONTROL PLAN (TCP) PERMIT. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK FIVE (5) WORKING DAYS FOR STREET CLOSURES. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE THE TCP PERMIT. WORK SHALL NOT BEGIN IN THE PUBLIC ROADWAY WITHOUT THE TCP PERMIT.
- ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT PULL BOX AND THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT STUBBED OUT TO THE ADJACENT PULL BOX FOR FUTURE USE.
- LOCATIONS, POSITIONING, AND INSTALLATION OF SIGNAL EQUIPMENT, LOOP DETECTORS, TRAFFIC SIGNS, TRAFFIC STRIPING, PAVEMENT AND CURB MARKINGS:
 - THE CONTRACTOR, WITH THE APPROVAL OF THE CITY RESIDENT ENGINEER, IS RESPONSIBLE FOR LOCATING, MARKING THE LAYOUT, AND INSTALLATION OF ALL SIGNAL AND LIGHTING EQUIPMENT.
 - THE CONTRACTOR, WITH THE APPROVAL OF THE CITY RESIDENT ENGINEER, IS RESPONSIBLE FOR LOCATING, MARKING THE LAYOUT, AND INSTALLATION OF ALL LOOP DETECTORS, TRAFFIC SIGNS (EXCEPT "G" SERIES STREET NAME SIGNS), TRAFFIC STRIPING, PAVEMENT AND CURB MARKINGS.
 - THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE ITEMS NOTED IN 5a AND 5b PRIOR TO INSTALLATION.
 - AS SHOWN ON THIS PLAN, CONTRACTOR SHALL INSTALL 6" DIAMETER TYPE E LOOP DETECTORS, WITH 10' SPACING, AND CENTERED IN THE TRAVEL PORTION OF EACH LANE (UNLESS OTHERWISE NOTED).
 - THE CONTRACTOR SHALL NOT PERFORM ANY PARKING REMOVAL, UNTIL A MINIMUM OF FIFTEEN (15) WORKING DAYS AFTER THE LOCATION APPROVAL.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS BY SANDBLASTING/GRINDING (METHOD TO BE DETERMINED BY THE RESIDENT ENGINEER).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE INTERSECTION WIRING IS PER POLARA NAVIGATOR PUSHBUTTON SPECIFICATIONS AND TO PROGRAM THE NEWLY INSTALLED PUSHBUTTONS. (SEE SPECIFICATIONS)
- LOCATION AND ELEVATION IMPROVEMENTS TO BE MET BY "WORK TO BE DONE" SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- THE GRADE OF DRY UTILITY COMPANY'S PULL BOX WITHIN CONSTRUCTION ZONE SHALL BE ADJUSTED TO MATCH NEW GRADE.



○ PROJECT SHEET NO.

LOCATION MAP
NOT TO SCALE

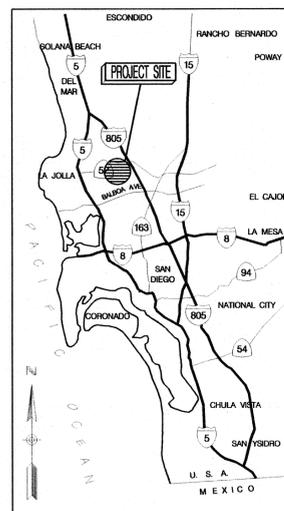
DETECTOR LOOP AND
POLE LOCATION DETAIL
NOT TO SCALE

LIMITS OF WORK

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS
1	G-1	COVER SHEET	
2	E-1	TRAFFIC SIGNAL MODS FY-2011	BALBOA AV @ CLAIREMONT DR
3	E-2	TRAFFIC SIGNAL MODS FY-2011	GENESEEE AV @ GOVERNOR DR
4	E-3	TRAFFIC SIGNAL MODS FY-2011	08TH AV @ E STREET
5	E-4	TRAFFIC SIGNAL MODS FY-2011	CLAIREMONT MESA BL @ GENESEE AV
6	E-5	TRAFFIC SIGNAL MODS FY-2011	56TH STREET @ EL CAJON BL
7	C-1	GOVERNOR DRIVE MEDIAN IMP.	EAST SIDE MEDIAN - GENESEE AV

DISCIPLINE CODE

- G GENERAL
- D DEMOLITION
- C CIVIL
- L LANDSCAPE
- A ARCHITECTURAL
- S STRUCTURAL
- M MECHANICAL
- E ELECTRICAL
- I INSTRUMENTATION
- T TRAFFIC CONTROL



G-1

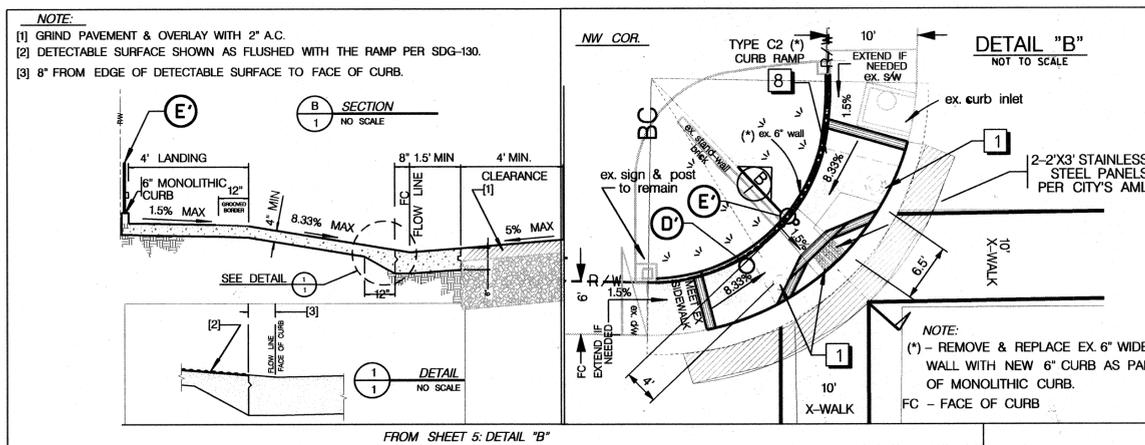
STORM WATER PROTECTION

THIS PROJECT IS SUBJECT TO THE MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND WPCP.

WATER POLLUTION CONTROL NOTES:

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS NOTED IN THE GREENBOOK 2012 CITY SUPPLEMENT SEC. 701. THIS PROJECT IS REQUIRED TO DEVELOP AND IMPLEMENT A "WATER POLLUTION CONTROL PLAN (WPCP).

STREET NAME:	ADT
1. BALBOA AVENUE	13,250
2. GOVERNOR AVENUE	14,510
3. E STREET	11,750
4. CLAIREMONT MESA BL.	30,500
5. 56TH STREET	17,570
6. EL CAJON BLVD	12,060
7. CLAIREMONT DR.	19,000



CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH ---- MEDIUM ---- LOW X

SPEC. NO. 5953



LABIB QASEM, TRAFFIC ENGINEER		10/23/13	
PLANS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL MODIFICATIONS FY2011			
COVER SHEET			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 1 OF 7 SHEETS		WBS -B-III08	
APPROVED BY: BRAD JOHNSON PROJECT ENGINEER	DATE: 10/23/13	SUBMITTED BY: D. ZHANG ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY RLA	APPROVED	DATE FILMED
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		36692-1-D	

TRAFFIC SIGNAL MODIFICATIONS FY 2011

EXISTING POLE SCHEDULE							REMARKS
STANDARD No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUMINAIRE INDUCTION	PLACEMENT A B	
(A)	29-5-80	30'	50'	15'	165W	EX. EX. MAT	POLE TO REMAIN
(B)	26-4-80	30'	45'	12'	165W	EX. EX. MAT	POLE TO REMAIN
(C)	26-4-80	30'	45'	12'	165W	EX. EX. MAT	POLE TO REMAIN
(D)	26-4-80	30'	45'	12'	165W	EX. EX. MAT	POLE TO REMAIN

GENERAL NOTES:

SEE SHEET 1

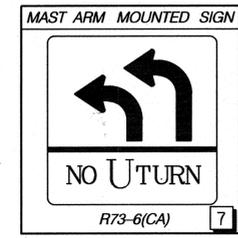
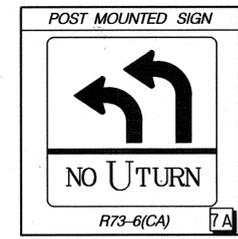
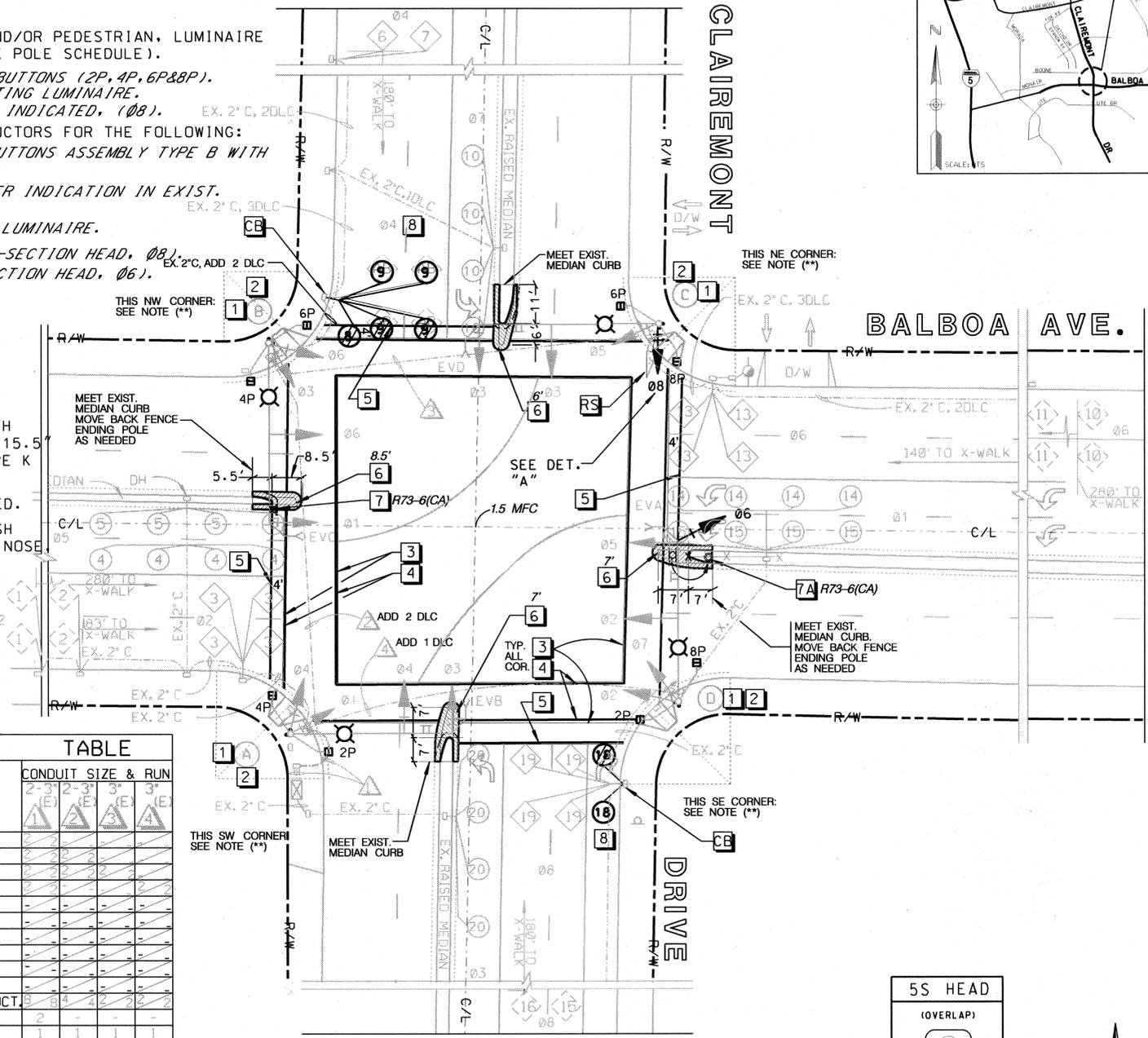
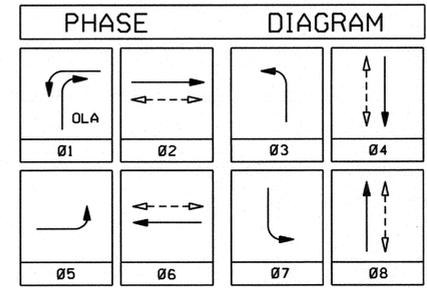
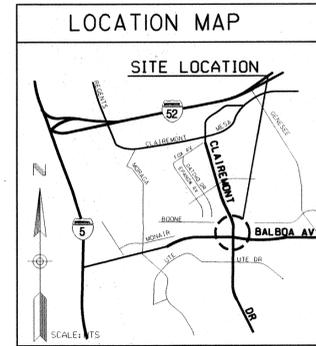
CONSTRUCTION NOTES:

- REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON AND/OR PEDESTRIAN, LUMINAIRE SIGNAL INDICATION, FOR THE FOLLOWING POLE BELOW: (SEE POLE SCHEDULE).
- FROM POLES A, B, C, & D: TWO (2) PEDESTRIAN PUSH BUTTONS (2P, 4P, 6P & 8P).
: ONE (1) EACH POLE - EXISTING LUMINAIRE.
- FURNISH & INSTALL NEW ELECTRICAL EQUIPMENTS AND CONDUCTORS FOR THE FOLLOWING:
AT POLES A, B, C, & D: TWO (2) EACH - NEW ADA PUSH BUTTONS ASSEMBLY TYPE B WITH PUSHBUTTON SIGNS.
: TWO (2) EACH - COUNT DOWN TIMER INDICATION IN EXIST. PEDESTRIAN SIGNAL HOUSING.
: ONE (1) EACH - 165W INDUCTION LUMINAIRE.
AT POLE C: ONE (1) 12" SV-1-T VEHICLE INDICATION (5-SECTION HEAD, Ø8).
AT POLE D: ONE (1) 12" MAS VEHICLE INDICATION (3-SECTION HEAD, Ø6).
- REMOVE EXISTING LEGENDS, PAVEMENT MARKINGS, AND CONFLICTING STRIPING BY GRINDING METHOD APPROVED BY CITY RESIDENT ENGINEER.
- APPLY 12-INCH THERMOPLASTIC YELLOW CROSSWALK PER CALTRANS STANDARD PLAN A24E.
- APPLY 12-INCH THERMOPLASTIC WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
- CUT MEDIAN BACK AS SHOWN ON PLAN AND REPLACE CURB WITH TYPE B-2, SDG-154 AS NEEDED TO MEET EXISTING. INSTALL 15.5' FULL DEPTH AC PER SDG-113. FURNISH & INSTALL NEW TYPE K MARKER AT THE NOSE. PAINT MEDIAN NOSE YELLOW.
- REMOVE AND REPLACE EXISTING MAST ARM SIGN AS INDICATED.
- REMOVE EXIST. POLE MOUNTED SIGNS (R73-5 & R7). FURNISH & INSTALL NEW R73-6(CA) & TYPE K MARKER SIGNS AT THE NOSE.
- PROVIDE AND INSTALL NEW LOOP DETECTOR, DLC, AND OTHER EQUIPMENT NECESSARY AS SHOWN FOR THE PROPER OPERATION OF THIS PHASE. PULL NEW DLC TO CONTROLLER.

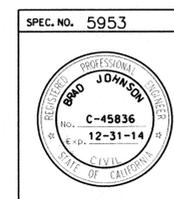
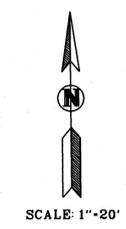
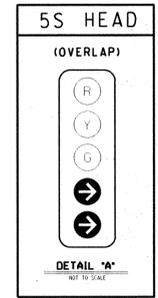
DETECTOR ASSIGNMENT

DET.	PHASE	SLOT	FIELD TERMINAL
1	2	I2U	T2-5 & 6
2	2	I2L	T2-7 & 8
3	2	I3U	T2-9 & 10
4	5	J1U	T3-1 & 2
5	5	I1L	T3-3 & 4
6	4	I6U	T4-9 & 10
7	4	I6L	T4-11 & 12
8	4	I7U	T6-1 & 2
9	4	I7L	T6-3 & 4
10	7	J5U	T5-5 & 6
11	6	J2U	T3-5 & 6
12	6	J2L	T3-7 & 8
13	6	J3U	T3-9 & 10
14	1	I1U	T2-1 & 2
15	1	I1L	T2-3 & 4
16	8	J6U	T5-9 & 10
17	8	J6L	T5-11 & 12
18	8	J7U	T7-1 & 2
19	8	J7L	T7-3 & 4
20	3	I5U	T4-5 & 6
PPB	2	I12U	T8-4 & COM 6
PPB	4	I12L	T8-5 & COM 6
PPB	6	I13U	T8-7 & COM 9
PPB	8	I13L	T8-8 & COM 9
EVA	2+5	J12U	T9-4 & COM 6
EVB	4+7	J13U	T9-7 & COM 9
EVC	1+6	J12L	T9-5 & COM 6
EVD	3+8	J13L	T9-8 & COM 9
FLASH		I14U	T8-10 & COM 12

CONDUCTOR		TABLE				
AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE & RUN			
			2"	3"	4"	6"
CONDUCTORS	3	POLE - A	2	2	2	2
		POLE - B	2	2	2	2
		POLE - C	2	2	2	2
		POLE - D	2	2	2	2
TOTAL CABLES	12	NO. 6	2	2	2	2
		NO. 8	1	1	1	1
		NO. 10	2	2	2	2
		6 PAIR NO. 22 (SIC)	2	2	2	2
TYPE 'B'	DLC	INTERCONNECT CABLE	2	2	2	2
		LOOP DETECTOR	2	2	2	2
		1	3	3	3	3
		2	3	3	3	3
		3	3	3	3	3
		4	4	4	4	4
		5	2	2	2	2
		6	3	3	3	3
EMERGENCY VEHICLE DETECTOR (EV-DLC)			4	2	1	1
TOTAL CONDUCTOR - CABLES			44	21	11	12



NOTES:
 (*) NOT IN USED.
 (**) EXISTING CURB RAMP WITH DETECTABLE WARNING TILES TO REMAIN.
 (***) INSTALL COUNTDOWN TIMER INDICATION IN EXISTING PEDESTRIAN SIGNAL HOUSING.



E-1

LABB CASEM, TRAFFIC ENGINEER 10/23/13
DATE

PLANS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL MODIFICATIONS
FY 2011

BALBOA AV @ CLAIREMONT DR

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 2 OF 7 SHEETS

WBS BIII08

APPROVED BY: *Brad Johnson* 10/23/13
FOR CITY ENGINEER
PRINT NAME: BRAD JOHNSON
DATE: 10/23/13

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RLA			

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

SUBMITTED BY: D. ZHANG
ASSOCIATE ENGINEER
PROJECT ENGINEER: R. ABARABAR
236-1707
1876-6267
36692-2-D

TRAFFIC SIGNAL MODIFICATIONS FY 2011

- NOTES:**
- (*) ALL PEDESTRIAN SIGNAL HEADS SHALL BE LED OF THE COUNTDOWN TYPE.
 - (**) INSTALL COUNTDOWN TIMER INDICATION IN EXISTING PEDESTRIAN SIGNAL HOUSING.
 - (***) EXISTING CURB RAMP WITH DETECTABLE WARNING TILES TO REMAIN.
 - (****) FOR ANY NEW DIRECTIONAL BORING/TRENCH AREA: 1-12" COLD MILLING AND OVERLAY FIVE FEET AROUND TRENCH, INCLUDING BOTH ENDS WHEN APPLICABLE.

DETECTOR ASSIGNMENT

DET.	PHASE	SLOT	FIELD TERMINAL
1	2	I2U	T2-5 & 6
2	2	I2L	T2-7 & 8
3	2	I3U	T2-9 & 10
4	2	I3L	T2-11 & 12
5	5	J1U	T3-1 & 2
6	5	J1L	T3-3 & 4
7	4	I6U	T4-9 & 10
8	4	I6L	T4-11 & 12
9	4	I7U	T6-1 & 2
10	4	I7L	T6-3 & 4
11	4	I8U	T6-5 & 6

CONSTRUCTION NOTES:

- REMOVE AND SALVAGE EX. POLES AND/OR EQUIPMENT AS INDICATED ON PLAN. CUT DOWN FOUNDATION 18" BELOW GRADE AND REPAIR SURFACE TO MATCH EXISTING CONDITION. FURNISH AND INSTALL NO. 6 PULL BOX IN PLACE OF REMOVED POLE. SEE POLE SCHEDULE.
- FURNISH & INSTALL NEW POLES, MAST ARMS, VEH. SIGNAL HEADS, AND OTHER NOTED EQUIPMENT. FURNISH/FABRICATE NEW BRACKETING OR MOUNTING HARDWARE. INSTALL NEW CABLE/CONDUCTORS, PULL TO CONTROLLER, AND LAND TO ASSIGNED TERMINALS. FURNISH AND INSTALL NO. 6 PULLBOX ADJACENT TO EACH POLE. TRENCH AND INSTALL 3" CONDUIT WITH CONDUCTORS FROM POLE TO PULLBOX. (SEE POLE AND CONDUCTOR SCHEDULES).
- FURNISH AND INSTALL BI-DIRECTIONAL EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT PER CITY OF SAN DIEGO REQUIREMENTS.
- FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER DETAIL "U", CALTRANS STANDARD PLAN ES-7N. SIGN TYPE AS NOTED ON PLAN.
- PROVIDE AND INSTALL NEW LOOP DETECTOR, DLC, AND OTHER EQUIPMENT NECESSARY AS SHOWN. FOR THE PROPER OPERATION OF THIS PHASE, PULL NEW DLC TO CONTROLLER.
- FURNISH AND INSTALL NO. 5 PULL BOX AS INDICATED ON PLAN.
- TRENCH AND INSTALL 2" CONDUIT WITH NEW CONDUCTORS PER PLAN.
- REMOVE EXISTING LUMINAIRE AND REPLACE WITH INDUCTION LUMINAIRE. SEE POLE SCHEDULE.
- FURNISH AND INSTALL COUNTDOWN TIMER INDICATION IN ALL EXISTING PEDESTRIAN SIGNAL HEAD HOUSING.

CONDUCTOR TABLE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE & RUN											
			3"(N)	3"(N)	2"(E)	2"(E)	3"(N)	3"(N)	2-1/2"	2-1/2"				
3	CONDUCTORS	POLE - A	-	-	-	-	-	-	-	-	-	-	-	-
		POLE - D'	-	-	-	-	-	-	-	-	-	-	-	-
		POLE - F'	2	2	2	-	-	-	-	-	-	-	-	-
		POLE - G	1	1	-	-	-	-	-	-	-	-	-	-
12	CONDUCTORS	POLE - I'	-	-	2	2	2	2	2	2	2	2	2	2
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL CABLES			3	3	2	2	2	2	4	4	4	4	8	
NO. 6 SIGNAL SERVICE			-	-	-	-	-	-	-	-	-	-	-	
NO. 8 GROUND			1	1	1	1	1	1	1	1	1	1	1	
NO. 10 LIGHTING			2	2	2	2	2	2	2	2	2	2	2	
6 PAIR NO. 22 (SIC) INTERCONNECT CABLE			-	-	-	-	-	-	-	-	-	-	-	
1 LOOP DETECTOR			1	1	-	-	-	-	-	-	-	-	-	
2			-	-	-	-	-	-	-	-	-	-	-	
3			-	-	-	-	-	-	-	-	-	-	-	
4			-	-	-	-	-	-	-	-	-	-	-	
5			-	-	-	-	-	-	-	-	-	-	-	
6			4	4	-	-	-	-	-	-	-	-	-	
7			-	-	-	-	-	-	-	-	-	-	-	
8			-	-	-	-	-	-	-	-	-	-	-	
EMERGENCY VEHICLE DETECTOR (EV-DLC)			1	1	-	-	-	-	-	-	-	-	-	
TOTAL CONDUCTOR - CABLES			14	16	10	13	21	25	43	-	-	-	-	-

CONSTRUCTION NOTES: CONT'D

- FURNISH AND INSTALL NEW ADA PUSHBUTTONS ASSEMBLY TYPE B WITH PUSHBUTTON SIGN.
- CUT MEDIAN BACK AS SHOWN ON PLAN AND REPLACE CURB WITH TYPE B-2, SDG-154 AS NEEDED TO MEET EXISTING. INSTALL 15.5" FULL DEPTH AC PER SDG-113. FURNISH & INSTALL NEW TYPE K MARKER AT THE NOSE. PAINT MEDIAN NOSE YELLOW.
- REMOVE EXISTING LEGENDS, PAVEMENT MARKINGS, AND CONFLICTING STRIPING BY GRINDING METHOD APPROVED BY CITY RESIDENT ENGINEER.
- APPLY 12-INCH THERMOPLASTIC YELLOW CROSSWALK PER CALTRANS STANDARD PLAN A24E. APPROX. TOT. L = 850'.
- APPLY 12-INCH THERMOPLASTIC WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E. SEE XWALK & POLE DETAIL. APPROX. TOTAL L=220'
- INSTALL 3'X6' TYPE Q DETECTOR LOOP 44 FEET FROM CROSS WALK.

EXISTING POLE SCHEDULE

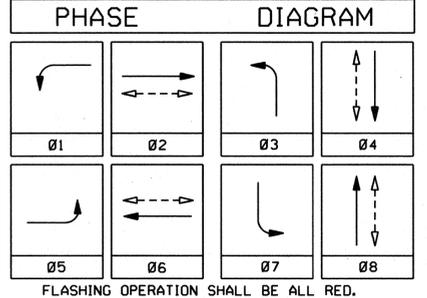
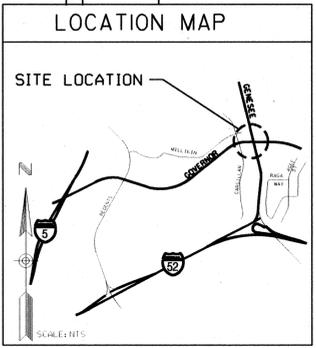
No.	TYPE	STANDARD			LUMINAIRE INDUCTION	PLACEMENT		SIGNAL MOUNTING VEHICLE	PEDESTRIAN SIGNAL		REMARKS	
		HGT.	SIG. M.A.	LUM. M.A.		A	B		SIGNAL	PPB		
(A)	29-5-70	30'	50'	15'	165W	EX.	EX.	MAS 2MAS	SV-1-T	SP-2-T	2P, 4P (**)	TO REMAIN
(B)	PPBP	40'	-	-	-	EX.	EX.	-	-	-	4P	(1) REMOVE/SALVAGE
(C)	TYPE A-1	10'	-	-	-	EX.	EX.	TV-1	SV-1-T	-	-	(1) REMOVE/SALVAGE
(D)	XVII	28'	18'	15'	135W	EX.	EX.	MAS	SV-2-T	SP-2-T	4P, 6P	(1) REMOVE/SALVAGE
(E)	TYPE A-1	10'	-	-	-	EX.	EX.	TV-1	SV-1-T	SP-2-T	-	(1) REMOVE/SALVAGE
(F)	XVII	30'	30'	15'	135W	EX.	EX.	MAS	SV-1-T	SP-2-T	6P, 8P	(1) REMOVE/SALVAGE
(G)	PPBP	7'	-	-	-	EX.	EX.	-	-	TP-1	8P	TO REMAIN
(H)	TYPE A-1	10'	-	-	-	EX.	EX.	TV-1	SV-1-T	-	-	(1) REMOVE/SALVAGE
(I)	XVII	28'	18'	15'	135W	EX.	EX.	MAS	SV-2-T	SP-2-T	4P, 6P	(1) REMOVE/SALVAGE
(J)	PPBP	40'	-	-	-	EX.	EX.	-	-	2P	-	(1) REMOVE/SALVAGE

NEW POLE SCHEDULE

No.	TYPE	STANDARD			LUMINAIRE INDUCTION	PLACEMENT		SIGNAL MOUNTING VEHICLE	PEDESTRIAN SIGNAL		REMARKS	
		HGT.	SIG. M.A.	LUM. M.A.		A	B		SIGNAL	PPB		
(D)	29-5-100	30'	50'	15'	85W	15'	5.75'	MAS MAS	SV-2-TB	SP-2-T	4P, 6P	(*) EVA, EVC
(F)	29-5-100	30'	55'	15'	165W	6'	4.50'	MAS MAS	SV-2-TB	SP-2-T	6P	(*) EVB, EVD
(I)	26-4-100	30'	45'	15'	85W	16'	4'	MAS MAS	SV-2-TB	SP-2-T	2P, 8P	(*)

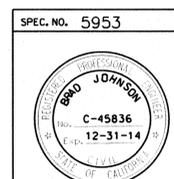
CONTINUED: DETECTOR ASSIGNMENT

DET.	PHASE	SLOT	FIELD TERMINAL
12	7	J5U	T5-5 & 6
13	7	J5L	T5-7 & 8
14	6	J2U	T3-5 & 6
15	6	J2L	T3-7 & 8
16	6	J3U	T3-9 & 10
17	6	J3L	T3-11 & 12
18	1	I1U	T2-1 & 2
19	1	I1L	T2-3 & 4
20	8	J6U	T5-9 & 10
21	8	J6L	T5-11 & 12
22	8	J7U	T7-1 & 2
23	8	J7L	T7-3 & 4
24	8	J8U	T7-5 & 6
25	3	I5U	T4-5 & 6
EVA	2+5	J12U	T9-4 & COM 6
EVB	4+7	J13U	T9-7 & COM 9
EVC	1+6	J12L	T9-5 & COM 6
EVD	3+8	J13L	T9-8 & COM 9
FLASH	-	I14U	T8-10 & COM 12



16 INSTALL, AND PULL TO CONTROLLER. NEW CABLE/CONDUCTORS AS NECESSARY TO PROPERLY PHASE AND OPERATE NEWLY INSTALLED EQUIPMENT. REWIRE TO CONTROLLER. [PULL OUT WIRES/CABLES IN EXISTING CONDUIT AS INDICATED].

DESIGN SPEED:
GOVERNOR DRIVE. (40 MPH)
GENESEE AVENUE (50 MPH)



LABIB OASEM, TRAFFIC ENGINEER 10/23/13 DATE

PLANS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL MODIFICATIONS FY 2011

GENESEE AV @ GOVERNOR DR

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 3 OF 7 SHEETS

WBS: B1108

FOR CITY ENGINEER: BRAD JOHNSON
DATE: 10/23/13

ASSOCIATE ENGINEER: D. ZHANG
PROJECT ENGINEER: R. ABARABAR

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL				

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

250-1707
CCS27 COORDINATE
1890-6267
CCS83 COORDINATE
36692-3-D

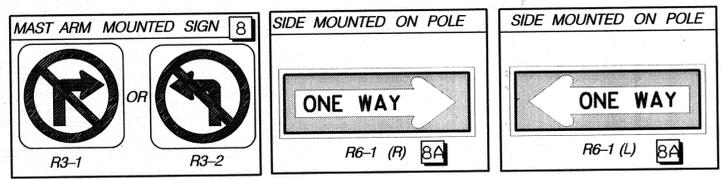
TRAFFIC SIGNAL MODIFICATIONS FY 2011

EXISTING POLE SCHEDULE												
No.	TYPE	STANDARD			LUMINAIRE	PLACEMENT		SIGNAL MOUNTING		PEDESTRIAN		REMARKS
		HGT.	SIG. M.A.	LUM. M.A.		INDUCTION	A	B	VEHICLE	SIGNAL	PPB	
(A)	TYPE 15	30'	-	15'	-	EX.	EX.	-	SV-1-T	SP-2-T	-	1 REMOVE/SALVAGE
(B)	TYPE 15	30'	-	15'	165W	EX.	EX.	-	-	SP-2-T(***)	4P	TO REMAIN
(C)	TYPE 15	30'	-	15'	165W	EX.	EX.	-	-	SP-2-T(***)	2P	TO REMAIN
(D)	F51	10'	-	-	-	EX.	EX.	-	-	SP-2-T	-	1 REMOVE/SALVAGE
(E)	TYPE 15	-	-	15'	-	EX.	EX.	-	-	SP-2-T	-	1 REMOVE/SALVAGE
(F)	F51	10'	-	-	-	EX.	EX.	-	SV-1-T	SP-2-T	-	1 REMOVE/SALVAGE

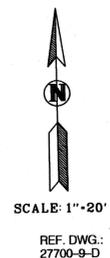
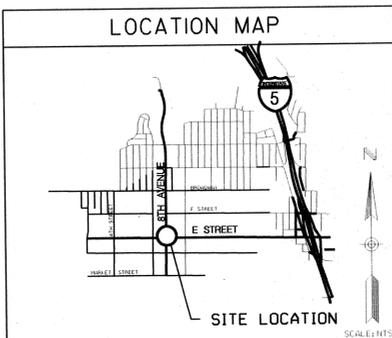
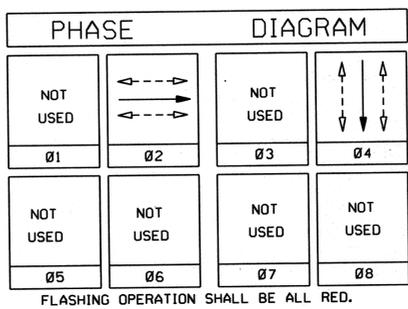
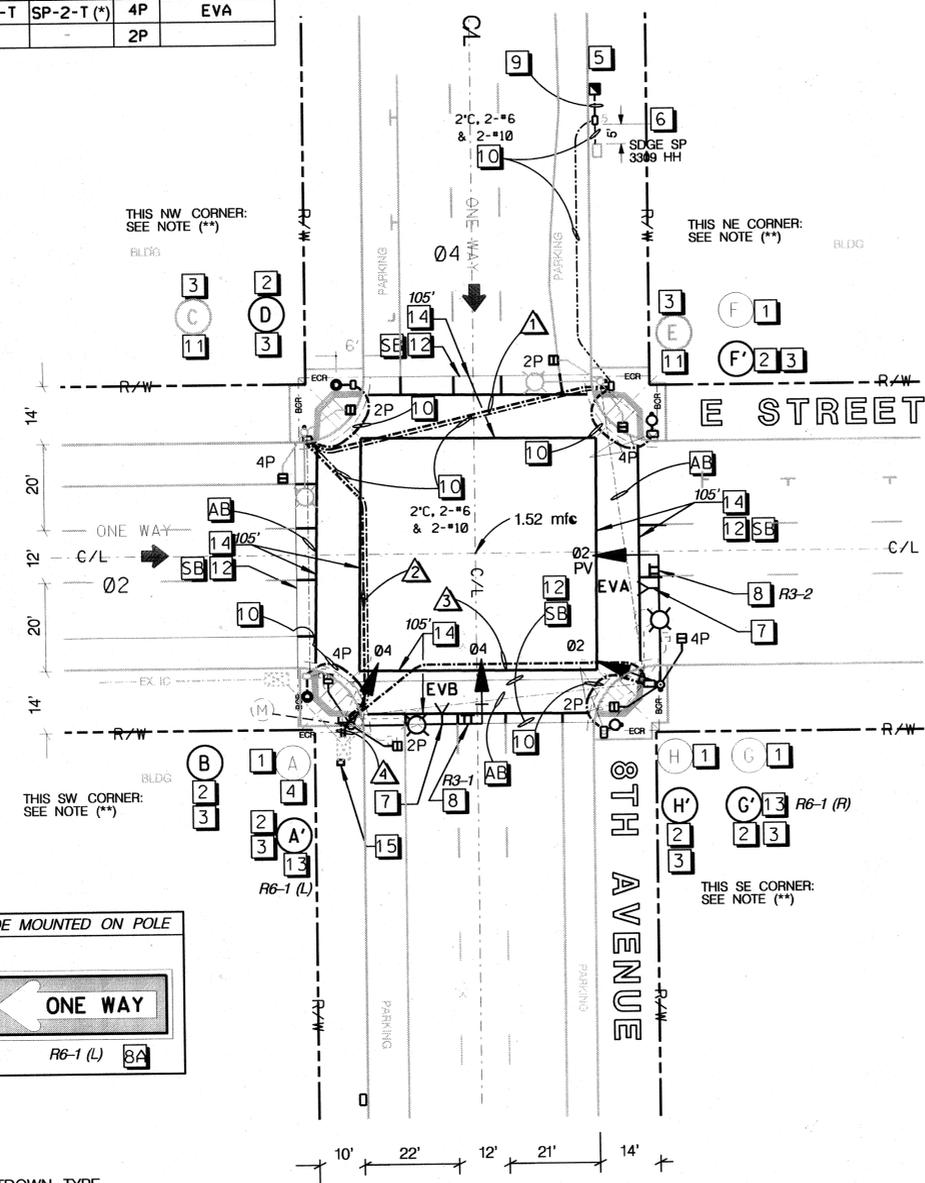
NEW POLE SCHEDULE													
No.	TYPE	STANDARD			LUMINAIRE	PLACEMENT		SIGNAL MOUNTING		PEDESTRIAN		REMARKS	
		HGT.	SIG. M.A.	LUM. M.A.		INDUCTION	A	B	VEHICLE	SIGNAL	PPB		
(A)	19-1-100	30'	30'	15'	165W	1.50'	3.00'	MAS	-	SV-1-T	SP-2-T (*)	2P	EVB
(B)	PPBP	40'	-	-	-	2.00'	6.50'	-	-	-	-	4P	
(C)	PPBP	40'	-	-	-	1.50'	6.00'	-	-	-	-	2P	
(D)	PPBP	40'	-	-	-	1.00'	4.50'	-	-	-	-	4P	
(E)	19-1-100	30'	30'	15'	165W	1.50'	4.50'	MAS PV	-	SV-1-T	SP-2-T (*)	4P	EVA
(F)	PPB	40'	-	-	-	1.50'	5.00'	-	-	-	-	2P	

CONDUCTOR TABLE						
AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE & RUN			
			3"(N)	3"(N)	3"(N)	2-3"
3	CONDUCTORS	POLE - A'	-	-	-	1
		POLE - B	-	-	-	1
		POLE - C	-	-	-	1
		POLE - D	-	-	-	1
		POLE - E	1	1	1	1
		POLE - F'	1	1	1	1
		POLE - G'	1	1	1	1
12	CONDUCTORS	POLE - H'	-	-	-	1
		POLE - A'	-	-	-	1
		POLE - B	-	-	-	1
		POLE - C	-	-	-	1
TOTAL CABLES 3 CONDUCT./ 12 CONDUCT.			2	4	2	18
NO. 6 SIGNAL SERVICE			2	2	2	2
GROUND			1	1	1	1
10 LIGHTING			2	2	2	2
6 PAIR NO.22 (SIC) INTERCONNECT CABLE			-	-	-	-
EMERGENCY VEHICLE DETECTOR (EV-DLC)			-	-	1	2
TOTAL CONDUCTOR - CABLES			8	11	9	19

DETECTOR ASSIGNMENT			
DET.	PHASE	SLOT	FIELD TERMINAL
EVA	2	I10U	C1-71
EVB	4	I12U	C1-72
PPB	2	I12U	C1-67
PPB	4	I12L	C1-69
FLASH	-	I14U	C1-81



NOTES:
 (*) ALL PEDESTRIAN SIGNAL HEADS SHALL BE LED OF THE COUNTDOWN TYPE.
 (**) EXISTING CURB RAMPS WITH DETECTABLE WARNING TILES TO REMAIN.
 (***) INSTALL COUNTDOWN TIMER INDICATION IN EXISTING PEDESTRIAN SIGNAL HOUSING.
 (****) FOR ANY NEW DIRECTIONAL BORING/TRENCH AREA: 1-12" COLD MILLING AND OVERLAY FIVE FEET AROUND TRENCH, INCLUDING BOTH ENDS WHEN APPLICABLE.



CONSTRUCTION NOTES:

- REMOVE AND SALVAGE EX. POLES AND EQUIPMENT AS INDICATED ON PLAN. CUT DOWN FOUNDATION 18" BELOW GRADE AND REPAIR SURFACE TO MATCH EXISTING CONDITION. FURNISH AND INSTALL NO. 6 PULL BOX IN PLACE OF REMOVED POLE.
- FURNISH & INSTALL NEW POLES, MAST ARMS, VEH. SIGNAL HEADS, AND OTHER NOTED EQUIPMENT AND PROVIDE NEW MOUNTING HARDWARE. (SEE POLE AND CONDUCTOR SCHEDULES).
- FURNISH AND INSTALL 2-WIRE ACCESSIBLE PEDESTRIAN PUSHBUTTON (POLARA NAVIGATOR). CONTRACTOR TO INSTALL COMPLETE ASSEMBLY INCLUDING PROGRAM OF THE PEDESTRIAN PUSH BUTTON AND CENTRAL CONTROL UNIT. (TOTAL = 8).
- REMOVE AND RELOCATE EXISTING ELECTRIC METER FROM POLE "A" TO NEW METER PEDESTAL LOCATION AS SHOWN.
- FURNISH AND INSTALL TYPE III SIGNAL AND LIGHTING SERVICE PER STATE STANDARD PLAN ES-2D. PROVIDE 50A-1P CIRCUIT BREAKER FOR SIGNAL. 30A-1P CIRCUIT BREAKER FOR LIGHTING. METER ADDRESS: 915 1/3 8TH AVENUE
- FURNISH AND INSTALL NO. 5 PULL BOX AS INDICATED ON PLAN.
- FURNISH AND INSTALL SINGLE-DIRECTIONAL VEHICLE PRE-EMPTION EQUIPMENT (E.V.P.E.) PER CITY OF SAN DIEGO REQUIREMENTS.
- FURNISH AND INSTALL MAST ARM MOUNTED SIGN AS INDICATED.
- INSTALL 2" CONDUIT WITH PULLROPE PER S.D.G.E REQUIREMENTS.
- TRENCH AND INSTALL 2" CONDUIT WITH NEW CONDUCTORS PER PLAN.
- FURNISH AND INSTALL COUNTDOWN TIMER INDICATION IN EXISTING PEDESTRIAN SIGNAL HEAD HOUSING.
- REMOVE EXISTING LEGENDS, PAVEMENT MARKINGS, AND CONFLICTING STRIPING BY GRINDING METHOD APPROVED BY CITY RESIDENT ENGINEER.
- FURNISH AND INSTALL SIGN ON POLE AS NOTED ON PLAN.
- APPLY 12-INCH THERMOPLASTIC WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E. SEE XWALK & POLE DETAIL. TOTAL LENGTH APPROX. L=420'
- FURNISH AND INSTALL POLARA PUSH BUTTON CONTROL SYSTEM IN A CLOSED STEEL BOX WITH VENT SYSTEM. (HOFFMAN ALUMINUM CABINET WITH COOLING FAN).

LABIB QASEM, TRAFFIC ENGINEER		10/23/13	
PLANS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL MODIFICATIONS FY 2011			
08TH AV @ E STREET			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 4 OF 7 SHEETS			WBS: B1108
DESIGNED BY: BRAD JOHNSON	DATE: 10/18/13	SUBMITTED BY: D. ZHANG	
DESCRIPTION: ORIGINAL		BY: RLA	APPROVED: R. ABARABAR
DATE: 12-31-14		PROJECT ENGINEER	
FILMED: 198-1719		COORDINATE: 1838-6279	
CONTRACTOR: 36692-4-D		DATE COMPLETED:	

DETECTOR ASSIGNMENT

ZONE	PHASE	SLOT	FIELD	TERMINAL
1	2	I2U	T2-5 & 6	(-)
2	2	I2L	T2-7 & 8	(-)
3	5	J1U	T3-1 & 2	(-)
4	5	J1L	T3-3 & 4	(-)
5	4	I6U	T4-9 & 10	(-)
6	4	I6L	T4-11 & 12	(-)
7	7	J5U	T5-5 & 6	(-)
8	6	J2U	T3-5 & 6	(-)
9	6	J2L	T3-7 & 8	(-)
10	1	I1U	T2-1 & 2	(-)
11	1	I1L	T2-3 & 4	(-)
12	8	J6U	T5-9 & 10	(-)
13	8	J6L	T5-7 & 8	(-)
14	3	I5U	T4-5 & 6	(-)
15	3	I5L	T4-7 & 8	(-)
PPB	2	I12U	T8-4 & COM 6	
PPB	4	I12L	T8-5 & COM 6	
PPB	6	I13U	T8-7 & COM 9	
PPB	8	I13L	T8-8 & COM 9	
EVA	2+5	J12U	T9-4 & COM 6	
EVB	4	J13U	T9-7 & COM 9	
EVC	1+6	J12L	T9-5 & COM 6	
EVD	8	J13L	T9-8 & COM 9	
FLASH	-	I14U	T8-10 & COM 12	

(-) MICROWAVE SENSOR

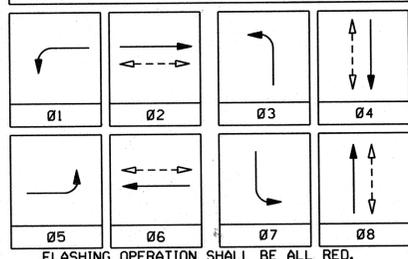
POLE SCHEDULE

No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	INDUCTION	PLACEMENT		SIGNAL MOUNTING		PEDESTRIAN		REMARKS
						A	B	VEHICLE	VEHICLE	SIGNAL	PPB	
(A)	26-3-70	30'	40'	15'	165W	EX.	EX.	MAS	SV-2-T0	SP-2-T(**)	-	3 TO REMAIN
(B)	TYPE A-1	10'	-	-	-	EX.	EX.	-	TV-1-T	-	4P	1 REMOVE/SALVAGE
(C)	TYPE A-1	10'	-	-	-	EX.	EX.	-	TV-1	SV-1-T	-	1 REMOVE/SALVAGE
(D)	TYPE III	30'	-	12'	85W	EX.	EX.	MAS	SV-2-TB	SP-2-T	4P	1 REMOVE/SALVAGE
(E)	PPBP	3'	-	-	-	EX.	EX.	-	-	-	6P	1 REMOVE/SALVAGE
(F)	TYPE 1-A	10'	-	-	-	3'	6'	TV-1	SV-1-T	-	-	1 REMOVE/SALVAGE
(G)	TYPE III	30'	-	15'	85W	EX.	EX.	MAS	SV-1-T	SP-1-T	6P	1 REMOVE/SALVAGE
(H)	F51	10'	-	-	-	EX.	EX.	TV-1	SV-1-T	-	8P	1 REMOVE/SALVAGE
(I)	TYPE A-1	10'	-	-	-	EX.	EX.	TV-1	SV-1-T	-	-	1 REMOVE/SALVAGE
(J)	TYPE III	30'	-	12'	165W	EX.	EX.	MAS	SV-2-TB	SP-2-T	8P	1 REMOVE/SALVAGE
(K)	PPBP	3'	-	-	-	EX.	EX.	-	-	-	2P	1 REMOVE/SALVAGE

NEW POLE SCHEDULE

No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	INDUCTION	PLACEMENT		SIGNAL MOUNTING		PEDESTRIAN		REMARKS
						A	B	VEHICLE	VEHICLE	SIGNAL	PPB	
(B)	PPBP	40'	-	-	-	17'	5.5'	-	-	-	2P,4P	
(D)	29-5-100	30'	55'	15'	85W	11'	3.5'	MAS	SV-2-TB	SP-2-T(**)	-	EVA, EVC
(E)	PPBP	40'	-	-	-	16'	7.5'	-	-	-	4P,6P	
(G)	29-5-100	30'	50'	15'	165W	10'	3'	MAS	SV-2-TB	SP-2-T(**)	2P,4P	EVB, EVD
(J)	29-5-100	30'	55'	15'	85W	11'	9'	MAS	SV-2-TB	SP-2-T(**)	2P,8P	

PHASE DIAGRAM



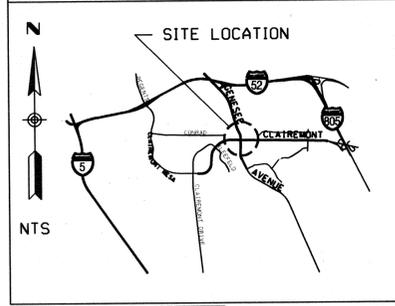
FLASHING OPERATION SHALL BE ALL RED.

GENERAL NOTES:
SEE SHEET 1
CONSTRUCTION NOTES:

- REMOVE AND SALVAGE EXISTING POLE AND ELECTRICAL EQUIPMENT AS INDICATED ON PLAN. CUT DOWN FOUNDATION 18" BELOW GRADE AND REPAIR SURFACE TO MATCH EXISTING. FURNISH AND INSTALL NO. 6 PULL BOX IF NECESSARY. (SEE POLE & CONDUCTOR SCHEDULES)
- FURNISH AND INSTALL BI-DIRECTIONAL EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT PER CITY OF SAN DIEGO REQUIREMENTS.
- FURNISH & INSTALL NEW POLES, MAST ARMS, VEH. SIGNAL HEADS, & OTHER NOTED EQUIPMENT. FURNISH/FABRICATE NEW BRACKETING OR MOUNTING HARDWARE. INSTALL NEW CABLE/CONDUCTORS. PULL TO CONTROLLER, AND LAND TO ASSIGNED TERMINALS. FURNISH AND INSTALL NO. 6 PULLBOX ADJACENT TO EACH POLE. TRENCH AND INSTALL 3" CONDUIT WITH CONDUCTORS FROM POLE TO PULLBOX. (SEE POLE AND CONDUCTOR SCHEDULES).
- FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER DETAIL "U", CALTRANS STANDARD PLAN ES-7N. SIGN TYPE AS NOTED ON PLAN.
- FURNISH AND INSTALL NEW MICROWAVE INTERSECTOR SENSOR MOUNTED AT THE POLE PER SPECIAL PROVISION. FURNISH/FABRICATE NEW MOUNTING HARDWARE, CAT. 5 CABLES, PULL TO CONTROLLER, AND LAND TO ASSIGNED TERMINALS. (SEE POLE & CONDUCTOR SCHEDULES).
- NOT USED.
- CUT MEDIAN BACK AS SHOWN ON PLAN AND REPLACE CURB WITH TYPE B-2, SDG-154 AS NEEDED TO MEET EXISTING. INSTALL 15.5" FULL DEPTH AC PER SDG-113. FURNISH & INSTALL NEW TYPE K MARKER AT THE NOSE. PAINT MEDIAN NOSE YELLOW.
- CONSTRUCT CURB RAMP PER CITY OF SAN DIEGO STANDARD DRAWING NO. SDG-132 (MODIFIED), SDG-134 AND SDG-135 AS INDICATED.
- FURNISH AND INSTALL 2-WIRE PUSHBUTTON (POLARA NAVIGATOR). CONTRACTOR TO INSTALL COMPLETE ASSEMBLY INCLUDING PROGRAM OF THE PEDESTRIAN PUSHBUTTON AND CENTRAL CONTROL UNIT.
- FURNISH AND INSTALL POST AND SIGN (TYPE K MARKER) AS SHOWN.
- APPLY 12-INCH THERMOPLASTIC WHITE CROSSWALK PER CALTRANS STANDARD PLAN A24E.
- REMOVE AND SALVAGE EXISTING PULL BOX.
- REMOVE EXISTING STRIPING BY GRINDING METHOD AS DIRECTED BY RESIDENT ENGINEER.
- ABANDON.

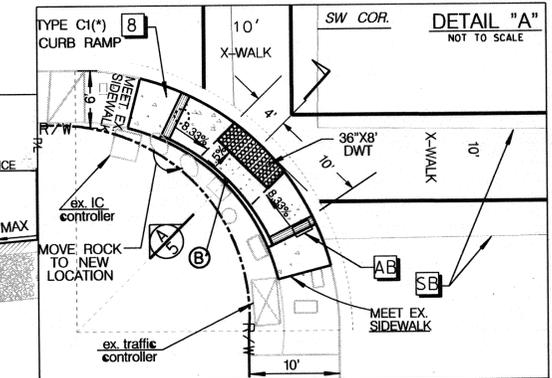
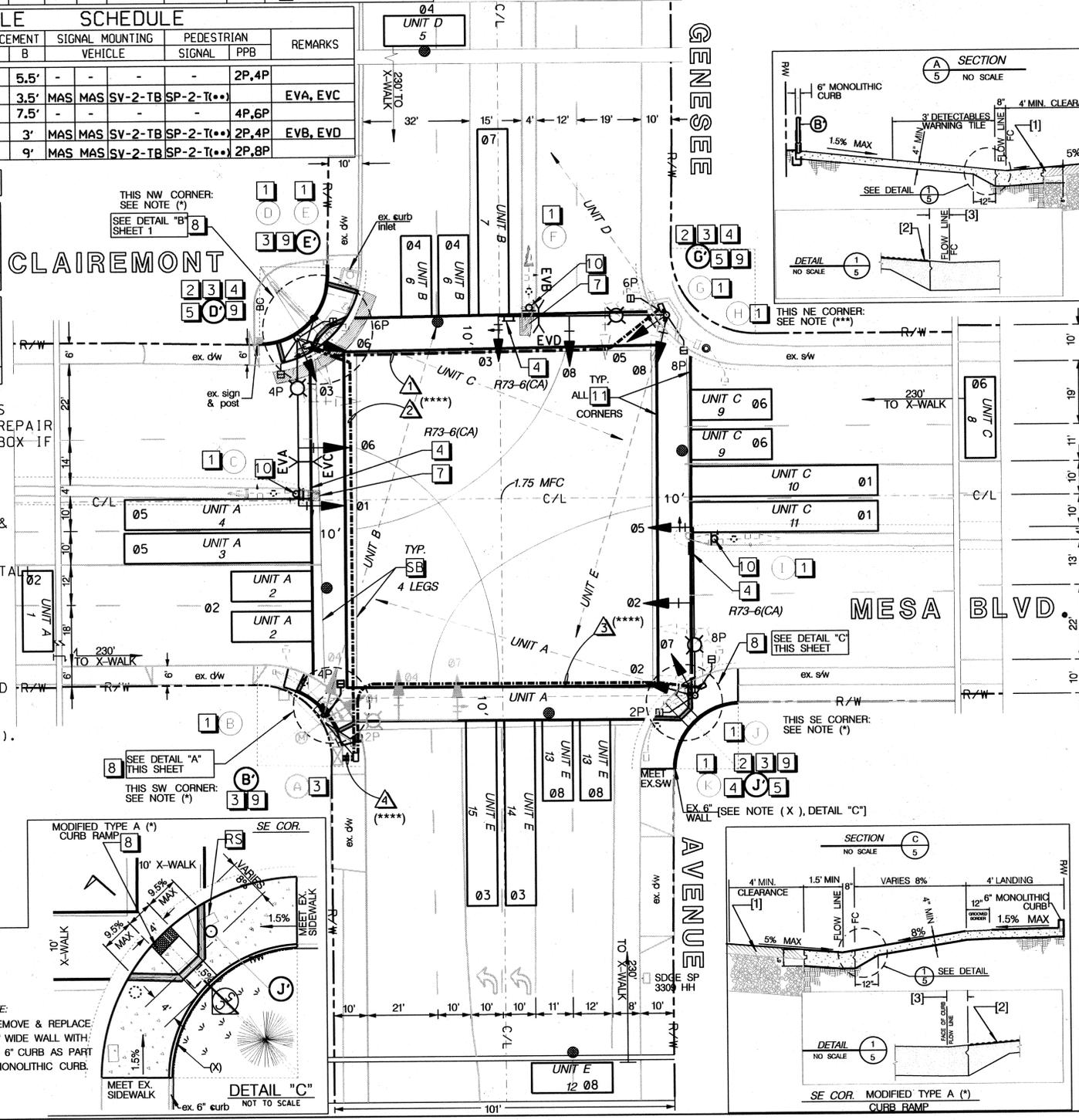
DESIGN SPEED: CLAIREMONT MESA DRIVE. (40 MPH)
GENESEE AVENUE (40 MPH)

LOCATION MAP



NOTES:

- (*) NEW CURB RAMP SHOULD HAVE THE STAINLESS STEEL DETECTABLE WARNING TILES PER SDG-130. THE DETECTABLE WARNING TILES SHALL BE 36" DEEP X FULL WIDTH OF RAMP OPENING AND SHALL BE A STAINLESS STEEL MATERIAL PER THE CITY'S AML.
- (**) ALL NEW PEDESTRIAN SIGNAL HEADS SHALL BE LED OF THE COUNTDOWN TYPE.
- (***) EXISTING CURB RAMP WITH DETECTABLE WARNING TILES TO REMAIN.
- (****) FOR ANY NEW DIRECTIONAL BORING/TRENCH AREA: 1-12" COLD MILLING AND OVERLAY FIVE FEET AROUND TRENCH, INCLUDING BOTH ENDS WHEN APPLICABLE.
- CENTER OF STOP BAR
- SENSOR UNIT POINTER
- [1] GRIND PAVEMENT & OVERLAY WITH 2" A.C.
- [2] DETECTABLE SURFACE SHOWN AS FLUSHED WITH THE RAMP PER SDG-130.
- [3] 8" FROM EDGE OF DETECTABLE SURFACE TO FACE OF CURB.



CONDUCTOR TABLE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE & RUN								
			3"(N)	3"(N)	3"(N)	2-3"					
CONDUCTORS	3	POLE - A'	-	-	-	2					
		POLE - B'	-	-	-	2					
		POLE - D'	-	-	-	2					
		POLE - G'	-	-	-	2					
		POLE - J'	-	-	-	2					
CAT 5 CABLE	12	POLE - E'	-	-	-	2					
		TOTAL CABLES	3	CONDUCT./ 12	CONDUCT./ 2	6	4	2	2	10	8
		NO. 6	SIGNAL SERVICE	2	2	2	2	2			
		NO. 8	GROUND	1	1	1	1	1			
		NO. 10	LIGHTING	2	2	2	2	2			
3 PAIR NO.19 (SIC) INTERCONNECT CABLE			-	-	-	-	-	-	-	-	
MW SENSOR UNIT			-	-	-	-	-	-	-	-	
1,6 UNIT C			-	1	-	-	-	-	-	-	
2,5 UNIT A			-	-	-	1	1	-	-	-	
3,8 UNIT E			1	1	-	-	-	-	-	-	
4,7 UNIT B			-	-	-	-	-	-	-	-	
4 UNIT D (ADVANCE)			1	1	-	-	-	-	-	-	
EMERGENCY VEHICLE DETECTOR (EV-DLC)			1	2	-	-	-	-	-	2	
TOTAL CONDUCTOR - CABLES			12	20	10	30					

LABR CASEM, TRAFFIC ENGINEER 10/23/13 DATE

PLANS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL MODIFICATIONS FY 2011

CLAIREMONT MESA BL @ GENESEE AV

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 5 OF 7 SHEETS

WBS B1108

DATE: 10/23/13

PROJECT ENGINEER: R. ABARABAR

ASSOCIATE ENGINEER: D. ZHANG

CONTRACTOR: 36692-5-D

DATE STARTED: _____ DATE COMPLETED: _____

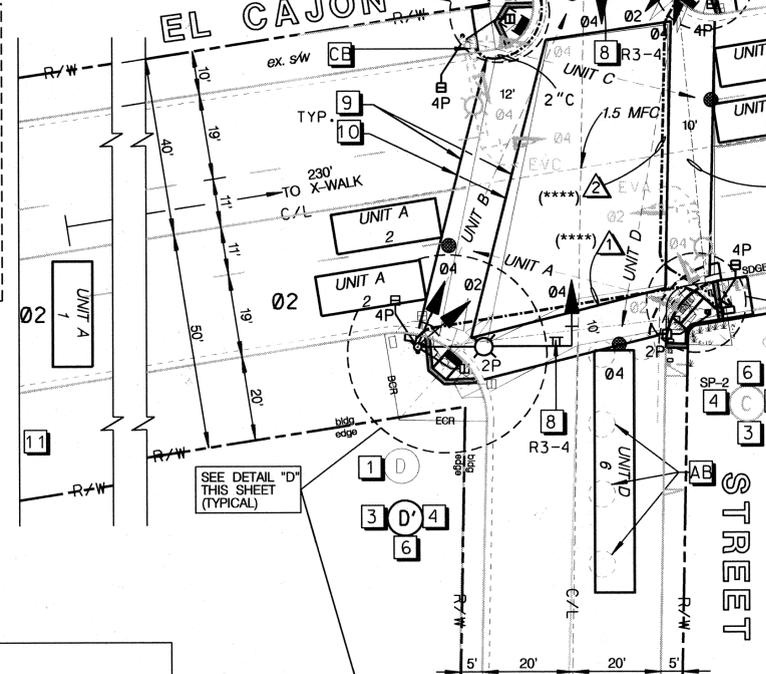
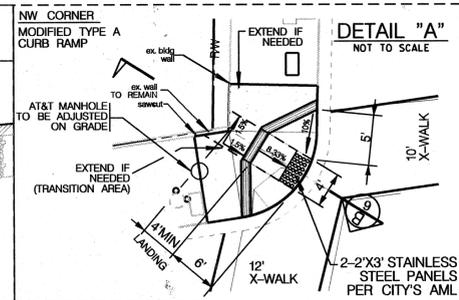
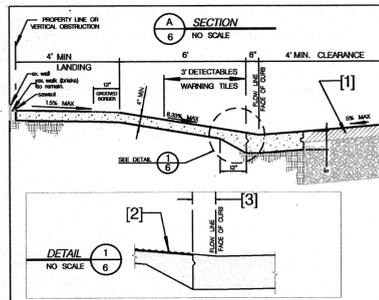
TRAFFIC SIGNAL MODIFICATIONS FY 2011

GENERAL NOTES:

SEE SHEET 1

CONSTRUCTION NOTES:

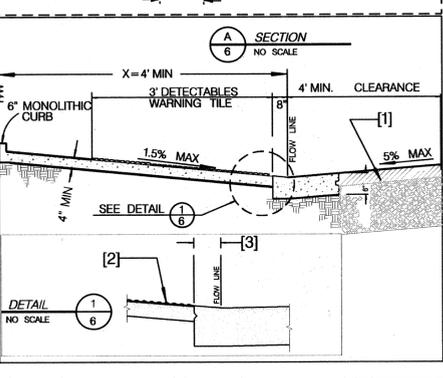
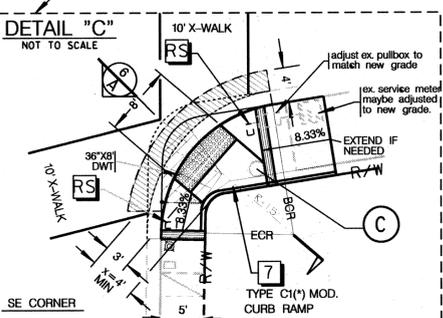
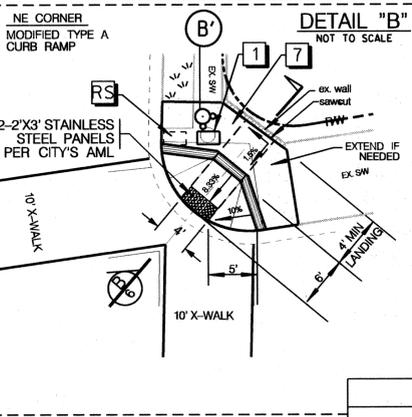
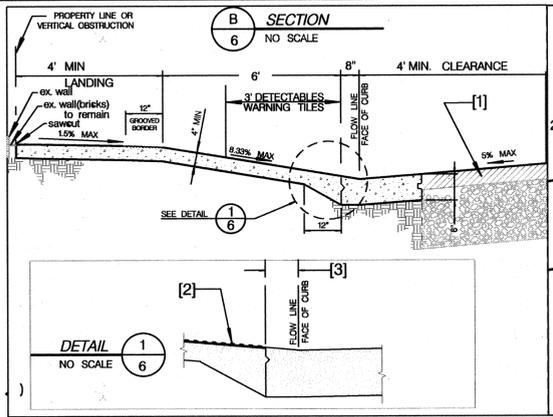
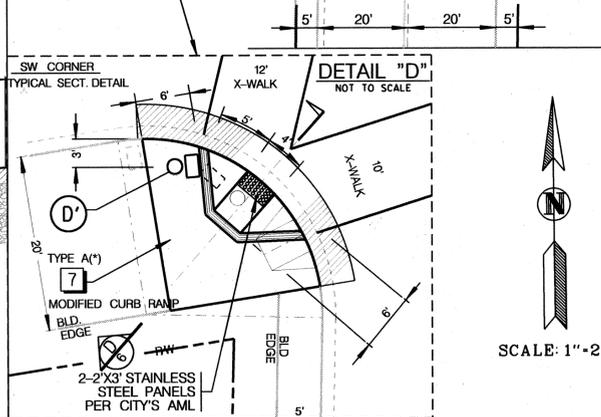
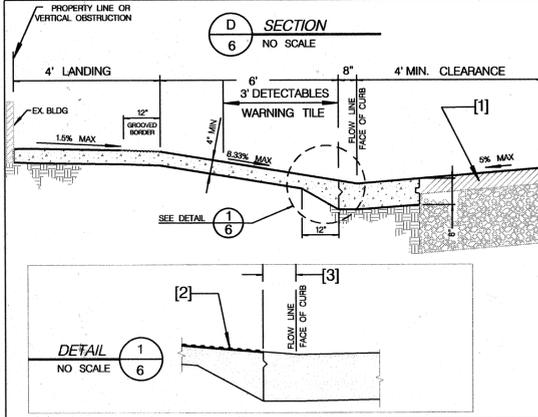
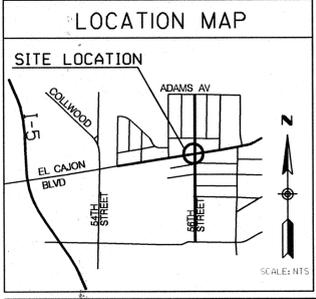
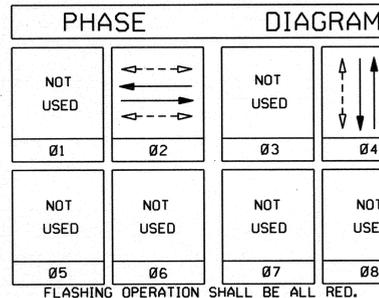
- 1 REMOVE AND SALVAGE POLE AND ELECTRICAL EQUIPMENT. CUT DOWN FOUNDATION 18" BELOW GRADE AND REPAIR SURFACE TO MATCH EXISTING CONDITION. EXTEND APPROPRIATE CABLE/CONDUCTORS AND INSTALL NO. 6 PULL BOX IF NECESSARY. (SEE POLE AND CONDUCTOR TABLE).
- 2 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON AS INDICATED.
- 3 FURNISH AND INSTALL 2-WIRE ACCESSIBLE PEDESTRIAN PUSHBUTTON (POLARA NAVIGATOR). CONTRACTOR TO INSTALL COMPLETE ASSEMBLY INCLUDING PROGRAM OF THE PEDESTRIAN PUSHBUTTON AND CENTRAL CONTROL UNIT.
- 4 FURNISH AND INSTALL NEW POLE, MAST ARMS, VEHICLE SIGNAL INDICATION, AND OTHER NOTED EQUIPMENT. AND PROVIDE NEW MOUNTING HARDWARE. (SEE POLE AND CONDUCTOR SCHEDULES).
- 5 FURNISH AND INSTALL BI-DIRECTIONAL VEHICLE PRE-EMPTION EQUIPMENT (E.V.P.E.) PER CITY OF SAN DIEGO REQUIREMENTS.
- 6 FURNISH AND INSTALL NEW MICROWAVE INTERSECTOR SENSOR MOUNTED AT THE POLE PER SPECIAL PROVISION. FURNISH/FABRICATE NEW MOUNTING HARDWARE, CAT. 5 CABLES, PULL TO CONTROLLER, AND LAND TO ASSIGNED TERMINALS. (SEE POLE & CONDUCTOR SCHEDULES).
- 7 CONSTRUCT MODIFIED TYPE "A" OR "C1" CURB RAMP PER CITY OF SAN DIEGO STANDARD DRAWING NO. SDG-132 OR 134 AS INDICATED.
- 8 INSTALL MAST ARM MOUNTED SIGN PER DETAIL "U", CALTRANS STANDARD PLAN ES-7N.
- 9 REMOVE EXISTING LEGENDS, PAVEMENT MARKINGS, AND CONFLICTING STRIPING BY GRINDING METHOD APPROVED BY CITY RESIDENT ENGINEER.
- 10 APPLY 12-INCH THERMOPLASTIC WHITE CROSSWALK PER CALTRANS STANDARD PLAN A24E.
- RS REMOVE AND SALVAGE EXISTING PULL BOX.



DETECTOR ASSIGNMENT

ZONE	PHASE	SLOT	FIELD TERMINAL
1	2	I2U	T2-5 & 6 (-)
2	2	I2L	T2-7 & 8 (-)
3	4	I6U	T4-9 & 10 (-)
4	2	I3U	T2-9 & 10 (-)
5	2	I3L	T2-11 & 12 (-)
6	4	I6L	T4-11 & 12 (-)
PPB	2	I12U	T8-4 & COM 6
PPB	4	I12L	T8-5 & COM 6
EVA	2	J12U	T9-4 & COM 6
EVC	2	J12L	T9-5 & COM 6
EVB	4	J13U	T9-7 & COM 9
EVD	4	J13L	T9-8 & COM 9
FLASH	-	I14U	T8-10 & COM 12

(-) MICROWAVE SENSOR



NOTES:

- (*) NEW CURB RAMP SHOULD HAVE THE STAINLESS STEEL DETECTABLE WARNING TILES PER SDG-130. THE DETECTABLE WARNING TILES SHALL BE 36" DEEP X FULL WIDTH OF RAMP OPENING AND SHALL BE A STAINLESS STEEL MATERIAL PER THE CITY'S AML.
- (**) ALL NEW PEDESTRIAN SIGNAL HEADS SHALL BE LED OF THE COUNTDOWN TYPE.
- (***) NOT USED.
- (****) FOR ANY NEW DIRECTIONAL BORING/TRENCH AREA: 1-12" GOLD MILLING AND OVERLAY FIVE FEET AROUND TRENCH, INCLUDING BOTH ENDS WHEN APPLICABLE.
- CENTER OF STOP BAR
- SENSOR UNIT POINTER
- [1] GRIND PAVEMENT & OVERLAY WITH 2" A.C.
- [2] DETECTABLE SURFACE SHOWN AS FLUSHED WITH THE RAMP PER SDG-130.
- [3] 8" FROM EDGE OF DETECTABLE SURFACE TO FACE OF CURB.

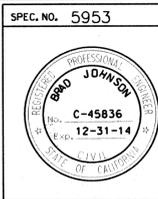
POLE SCHEDULE

STANDARD No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUMINAIRE INDUCTION	PLACEMENT		SIGNAL MOUNTING VEHICLE	PEDESTRIAN SIGNAL	REMARKS
						A	B			
(A)	EXISTING	30'	15'	15'	85W	7'	3'	MAS	- SV-2-TB SP-2-T	2P,4P TO REMAIN, EVC
(B)	I-A	10'	-	-	-	EX.	EX.	-	TV-2-T SP-2-T	[1] REMOVE/SALVAGE
(C)	EXISTING	30'	20'	15'	165W	3.5'	3'	MAS	- SV-2-TB SP-2-T	2P,4P (**), EVB-EVD
(D)	I-A	10'	-	-	-	EX.	EX.	-	TV-2-T SP-2-T	[1] REMOVE/SALVAGE
(E)	24-3-100	30'	35'	15'	165W	14'	3'	MAS	- SV-2-TB SP-2-T	2P,4P (**), EVA

CONDUCTOR TABLE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE & RUN				
			3"(N)	3"(N)	3"(N)	2-3"	
3	CONDUCTORS	POLE - A	-	-	-	2 1	
		POLE - B'	-	-	-	2 1 2 1	
		POLE - C	-	-	-	1 2 1 2	
		POLE - D'	-	-	-	2 1 2 1 2 1	
TOTAL CABLES			3	CONDUCT./	12	CONDUCT./	2 1 2 1 5 4 7 5
NO. 6	SIGNAL SERVICE	SIGNAL SERVICE	-	-	-	-	
		GROUND	2	2	1	1	
10	LIGHTING	LIGHTING	2	2	2	2	
		INTERCONNECT CABLE	-	-	-	-	
6 PAIR NO.22 (SIC)	MW SENSOR UNIT	UNIT A	-	-	-	1 1 1 1	
		UNIT B	-	-	-	1 1 1 1	
		UNIT C	-	-	-	1 1	
		UNIT D	-	-	-	1 1	
EMERGENCY VEHICLE DETECTOR (EV-DLC)			-	-	-	1 2 3	
TOTAL CONDUCTOR - CABLES			9	11	17	22	

MAST ARM MOUNTED SIGN



LABRI OASEM, TRAFFIC ENGINEER
DATE: 10/23/13

PLANS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL MODIFICATIONS FY 2011

56TH STREET @ EL CAJON BL

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 6 OF 7 SHEETS

WBS: BII08

FOR CITY ENGINEER: BRAD JOHNSON
DATE: 10/23/13

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RLA			

214-1743
CSC27 COORDINATE
1854-6303
CSC83 COORDINATE

CONTRACTOR: DATE STARTED: 36692-6-D
INSPECTOR: DATE COMPLETED: