

THE CITY OF SAN DIEGO ORIGINAL

CONTRACTOR'S NAME: Reyes Construction, Inc.
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TELEPHONE NO.: 909-622-2259 FAX NO.: 909-622-3053
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633
A. Sleiman/RWBustamante/egz

Ricardo Jimenez, Vice President
Reyes Construction, Inc.
1383 S Signal Drive

Pomona, CA 91766 **BIDDING DOCUMENTS**



FOR

Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

BID No.	<u>K-16-1316-DBB-3-B</u>
SAP NO. (WBS/IO/CC):	<u>S-00863</u>
CLIENT DEPARTMENT:	<u>2116</u>
COUNCIL DISTRICT:	<u>3</u>
PROJECT TYPE:	<u>IB</u>
FEDERAL AID PROJECT NO.:	<u>BRLO 5004 (009)</u>

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:


- FEDERAL EQUAL OPPORTUNITY CONTRACTING REQUIREMENTS.
- PREVAILING WAGE RATES: STATE FEDERAL
- APPRENTICESHIP
- THIS IS A FHWA FUNDED CONTRACT THROUGH STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

BID DUE DATE:

2:00 PM
MARCH 3, 2016
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

ENGINEER OF WORK

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


1) NATHAN JOHNSON, P.E.
PRINCIPAL ENGINEER
KLEINFELDER | SIMON WONG

2/10/16
Date

Seal:




2) FOR CITY ENGINEER
BRAD JOHNSON, P.E.

2/10/16
Date

Seal

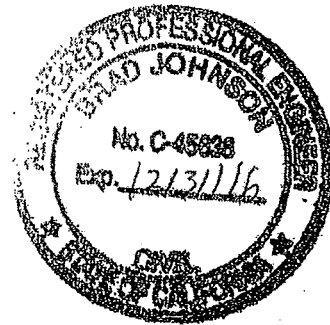


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NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for this project, will seismically retrofit and rehabilitate the Georgia Street Bridge and retaining walls. The project also includes, but is not limited to traffic signal modification, roadway lowering, new street lights and curbs ramps. For additional information refer to Attachment A.
2. **FULL AND OPEN COMPETITION:** This contract is open to full competition and may be bid on by Contractors who are on the City's current Prequalified Contractors' List. For information regarding the Contractors Prequalified list visit the City's web site: <http://www.sandiego.gov>.
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is \$7,361,000.00..
4. **BID DUE DATE AND TIME ARE: MARCH 3, 2016 at 2:00 PM.**
5. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
6. **LICENSE REQUIREMENT:** The City has determined that the following licensing classification(s) are required for this contract: A
7. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
 - 7.1. The City affirms that in any contract entered into pursuant to this advertisement, DBE will be afforded full opportunity to submit Bids in response to this invitation.
 - 7.2. This Federally assisted project includes subcontracting participation percentages for DBE participation. DBE goal commitments and Good Faith Efforts (GFE) shall be made prior to bidding. DBE commitments and GFE made after the Bid opening will not be considered for the Award of Contract.
 - 7.3. This project is subject to the federal equal opportunity regulations and the following requirements. The City reserves the right to audit the Contractor's compliance with the federal requirements set forth below.
 - 7.4. Following are federally subcontracting participation percentages for this contract. For the purpose of achieving the subcontractor participation percentage, Additive or Deductive, and Type II Allowance Bid Items will not be included in the calculation.
 - 7.5. **FHWA - CERTIFIED DBE Bidder(s)** shall meet the DBE goal or have a good faith effort. They receive no credit toward the goal for their own DBE status. The City has determined that the following goals shall apply to this project:
 1. DBE Percentage 13.0%The Contractor shall meet the Project specific goals for DBE's as outlined in the Specifications or satisfy GFE documentation requirements.

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

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

8. PRE-BID MEETING:

8.1. Prospective Bidders are **required** to attend the Pre-Bid Meeting. The purpose of the meeting is to discuss the scope of the Project, submittal requirements, the pre-qualification process and any Equal Opportunity Contracting Program requirements and reporting procedures. To request a sign language or oral interpreter for this visit, call the Public Works Contracts Division at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. **Failure to attend the Mandatory Pre-Bid Meeting may result in the Bid being deemed non-responsive.** The Pre-Bid meeting is scheduled as follows:

Date: FEBRUARY 17, 2016
Time 10:00 AM
Location: 1010 Second Avenue, Suite 1400, San Diego, CA 92101

Attendance at the Pre-Bid Meeting will be evidenced by the Bidder's representative's signature on the attendance roster. It is the responsibility of the Bidder's representative to complete and sign the attendance roster.

Bidders may not be admitted after the specified start time of the mandatory Pre-Bid Meeting.

9. AWARD PROCESS:

9.1 The Award of this contract is contingent upon the Contractor's compliance with all conditions of Award as stated within these documents and within the Notice of Intent to Award.

9.2 Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening. The City will then award the Contract within approximately 14 days of receipt of properly signed Contract, bonds, and insurance documents.

9.3 This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.

9.4 The low Bid will be determined by Base Bid alone **OR** Base Bid plus all Alternates.

9.5 Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base bid alone; or for the Base bid plus one or more alternates.

10. SUBMISSION OF QUESTIONS:

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

Public Works Contracts
1010 Second Avenue, 14th Floor
San Diego, California, 92101
Attention: Clementina Giordano

OR:

CGiordano@sandiego.gov, Contract Specialist EMAIL

- 10.2** Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 10.3** Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- 10.4** Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Bidder's responsibility to be informed of any addenda that have been issued and to include all such information in its Bid.

INSTRUCTIONS TO BIDDERS

1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, inclusive of all alternate items or specified Task Order limits 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 may be deemed non-responsive and ineligible for award. Complete information and links to the on-line prequalification application are available at:

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

- 1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.
- 1.3. Due to the City's fiduciary requirement to safeguard vendor data, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on PlanetBidsTM.

1. **ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS:** Bids will be received in **electronic format (eBids) EXCLUSIVELY** at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.

- 1.1. **BIDDERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit and electronic bid.
- 1.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
- 1.3. The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.
- 1.4. **BIDS REMAIN SEALED UNTIL BID DEADLINE.** eBids are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the "Bid Due Date and Time" are not available for review by anyone other than the submitter which has

until the “Bid Due Date and Time” to change, rescind or retrieve its proposal should it desire to do so.

1.5. BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME. Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, EOCP compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.

1.6. UNIT PRICES must be entered for all unit-price items.

1.7. RECAPITULATION OF THE WORK. 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.

1.8. BIDS MAY BE WITHDRAWN by the Bidder only up to the bid due date and time.

1.8.1. Important Note: Submission of the electronic bid into the system may not be instantaneous. Due to the speed and capabilities of the user’s internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder’s submission to upload and be received by the City’s eBidding system. It is the bidder’s sole responsibility to ensure their bids are received on time by the City’s eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.

1.9. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE. : To request a copy of this solicitation in an alternative format, contact the Public Works Contract Specialist listed in the cover of this solicitation at least five (5) working days prior to the Bid/Proposal due date to ensure availability.

2. ELECTRONIC BID SUBMISSIONS CARRY FULL FORCE AND EFFECT

2.1. The bidder, by submitting its electronic bid, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.

2.2. By submitting an electronic bid, the bidder certifies that the bidder has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its bid proposal, the bidder acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.

2.3. The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this bid are true and correct.

2.4. The Bidder agrees to the construction of the project as described in Attachment “A– Scope of Work” for the City of San Diego, in accordance with the requirements set

forth herein for the electronically submitted prices. 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. 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.

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. **CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**
 - 4.1. **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 vendor registration and bid management system. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>.
 - 4.2. 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.
5. **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.
6. **PREVAILING WAGE RATES WILL APPLY:** Refer to Attachment D.
7. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract. Refer to Attachment E.
8. **INSURANCE REQUIREMENTS:**
 - 8.1. 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.
 - 8.2. 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.
9. **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		

10. **CITY'S RESPONSES AND ADDENDA:** The City, at its option, may respond to any or all questions submitted in writing via the City's eBidding web site in the **form of an addendum**. No other responses to questions, oral or written 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 at the time of bid submission.
11. **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.
12. **CONTRACT PRICING FORMAT:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.
13. **SUBCONTRACTOR INFORMATION:**
- 13.1. **LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who 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 state within the description, whether the subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall further state within the description, the **PORTION** of the work which will be performed 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 may 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 for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

13.2. LISTING OF SUPPLIERS. Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY)** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.

13.3. LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES. For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.

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

15. AWARD PROCESS:

15.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions set forth herein and in the Notice of Intent to Award letter

15.2. 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.

15.3. This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.

16. SUBCONTRACT LIMITATIONS: The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The

GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.

17. **AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracts.
18. **ONLY ONE BID PER CONTRACTOR SHALL BE ACCEPTED:** 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.
19. **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 within these documents.
20. **BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY):**
 - 20.1. For bids \$250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.
 - 20.2. This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.
 - 20.3. The Bidder agrees that in the event of the Bidder's failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.
 - 20.4. At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City's eBidding system. Within twenty-four (24) hours after the bid due date and time, the first five (5) apparent low bidders must provide the City with the original bid security.

20.5. Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original within twenty-four (24) hours may cause the bid to be rejected and deemed **non-responsive**.

21. AWARD OF CONTRACT OR REJECTION OF BIDS:

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

21.2. Bidders shall complete all the eBid forms as required. Incomplete eBids will not be accepted.

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

21.4. Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.

21.5. A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.

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

21.7. 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 herein.

21.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of the base bid and any proposed alternates or options as detailed herein.

22. BID RESULTS:

22.1. The availability of the bids on the City's eBidding system 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 notation of such will be made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.

22.2. To obtain the bid results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the bid name and number. The bid tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

23. THE CONTRACT:

- 23.1.** 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.
- 23.2.** 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.
- 23.3.** 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.
- 23.4.** 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.
- 23.5.** 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 and approval as to form the City Attorney's Office. 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.

- 24. 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 (i.e., 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.

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

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

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

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

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

26.5. 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.

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

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

27. PRE-AWARD ACTIVITIES:

27.1. The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified herein and in the Notice of Award. Failure to provide the information as specified may result in the Bid being rejected as **non-responsive**.

27.2. The decision that bid is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Reyes Construction, Inc., a corporation, as principal, and Fidelity and Deposit Company of Maryland, 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 Eight Million Two Hundred Forty-Eight Thousand Four Hundred Thirty Dollars and .00/100 (\$8,248,430.00), for the faithful performance of the annexed contract, and in the sum of Eight Million Two Hundred Forty-Eight Thousand Four Hundred Thirty Dollars and .00/100 (\$8,248,430.00), for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract with the City of 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 Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 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.

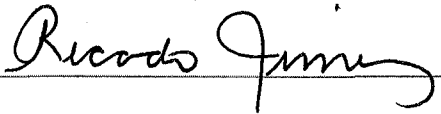
PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND
(continued)

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

Dated April 7, 2016


Approved as to Form

Reyes Construction, Inc.
Principal

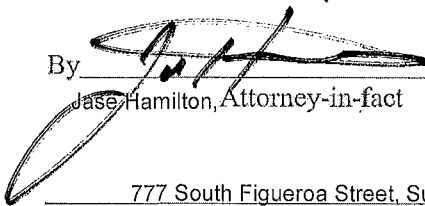
By 

Ricardo Jimenez, Vice President
Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By 
Deputy City Attorney

Fidelity and Deposit Company of Maryland
Surety

By 
Jase Hamilton, Attorney-in-fact

777 South Figueroa Street, Suite 3900
Local Address of Surety

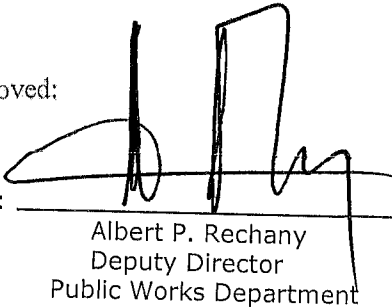
Los Angeles, CA 90017
Local Address (City, State) of Surety

213-270-0716
Local Telephone No. of Surety

Premium \$ 50,466.00

Bond No. 7648913

Approved:


Albert P. Rechany
Deputy Director
Public Works Department

list

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Maryland, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Maryland (herein collectively called the "Companies"), by **MICHAEL BOND, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **James P. SCHABARUM II, Jeffrey W. CAVIGNAC and Jase HAMILTON, all of San Diego, California, EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND**, this 23rd day of November, A.D. 2015.

ATTEST:

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND**



By: *Eric D. Barnes*
Secretary
Eric D. Barnes

Michael Bond
Vice President
Michael Bond

State of Maryland
County of Baltimore

On this 23rd day of November, A.D. 2015, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **MICHAEL BOND, Vice President, and ERIC D. BARNES, Secretary**, of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, depose and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

Constance A. Dunn



Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2019

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this _____ day of _____, 20____.

APR 07 2016



Gerald F. Haley

Gerald F. Haley, Vice President

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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

State of California }

County of San Diego }

On APR 07 2016 before me, Claire Owens, Notary Public
(Here insert name and title of the officer)

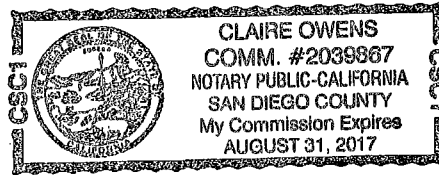
personally appeared Jase Hamilton,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) (s) are subscribed to the within instrument and acknowledged to me that he she/they executed the same in his her/their authorized capacity(ies), and that by his her/their signature(s) 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.

Claire Owens
Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

CAPACITY CLAIMED BY THE SIGNER

Individual (s)

Corporate Officer

_____ (Title)

Partner(s)

Attorney-in-Fact

Trustee(s)

Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they, - is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

ATTACHMENTS

ATTACHMENT A

SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** This project will seismically retrofit and rehabilitate the Georgia Street Bridge and retaining walls. The project also includes, but is not limited to traffic signal modification, roadway lowering, new street lights and curbs ramps.
 - 1.1. The Work shall be performed in accordance with:
 - 1.1.1. The Notice Inviting Bids and Plans numbered **38123-01-D** through **38123-58-D**, and **38123-T1-D** through **38123-T8-D** inclusive.
 - 1.1.2. Caltrans Standard Plan sheets are listed in Appendix A of the Supplementary Special Provisions.

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

The Intersection of Georgia Street and University Avenue, and University Avenue and frontage roads between Park Boulevard and Florida Street.

3. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **240 Working Days**.

ATTACHMENT B
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ATTACHMENT C
EQUAL OPPORTUNITY CONTRACTING PROGRAM

EQUAL OPPORTUNITY CONTRACTING PROGRAM REQUIREMENTS

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
FEDERAL HIGHWAY (FHWA)
FUNDING AGENCY PROVISIONS

FUNDING AGENCY PROVISIONS

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

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

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

	<u>Goal</u>
1. Minority Participation:	16.9%
2. Female Participation:	6.9%

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

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

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

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

2. NONDISCRIMINATION PROVISIONS FOR FEDERALLY ASSISTED CONSTRUCTION CONTRACTS AND PROJECTS:

2.1. During the performance of this contract, the Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but shall not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by, on behalf of, the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Contractor will send to each labor union or representative of worker with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advertising the said labor union or workers' representatives of the Contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, or of the rules, regulations and relevant orders of the Secretary of Labor.
5. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.
6. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended, in whole or in part, and the Contractor may be declared ineligible for further government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

7. The Contractor will include the portion of the sentence immediately preceding Paragraph 1 and the provisions of Paragraphs 1 through 7 in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each Subcontractor or Vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a Subcontractor or Vendor as a result of such direction by the administering agency, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

3. EQUAL OPPORTUNITY CLAUSES:

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

1. The equal opportunity clause located 41 CFR 60.1.4(a), which specifies the obligations imposed under Executive Order 11246.
2. The equal opportunity clause located at 41 CFR 60-741.5, which contains the obligations imposed by Section 503 of the Rehabilitation Act of 1973.
3. The "Equal Opportunity Clause" (Resolution No. 765092) filed on December 4, 1978, in the Office of the City Clerk, San Diego, California and incorporated in the "Standard Federal Employment Opportunity Construction Contract Specifications (Executive Order 11246 - Document No. 769023, filed September 11, 1984, in the Office of the City Clerk, San Diego, California) is applicable to all non-exempt City construction contracts and subcontracts of \$2,000 or more.
4. Age Discrimination Act of 1975, Pub. L. 94-135.
5. Title VI of the Civil Rights Act of 1964, Pub. L. 88-352.
6. Section 13 of the Federal Water Pollution Control Acts Amendments of 1972, Pub. L. 92-5200 (the Clean Water Act).
7. Section 504 of the Rehabilitation Act of 1973, Pub. L. 93-112 (Executive Orders 11914 and 11250).
8. Women's Minority Business Enterprises, Executive Orders 11625, 12138 and 12432.
9. Section 129 of the Small Business Administration Reauthorization and Amendment Act of 1988, Pub. L. 100-590.

4. STANDARD FEDERAL EQUAL EMPLOYMENT SPECIFICATIONS:

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

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

1. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign 2 or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
2. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
3. Maintain a current file of the names, addresses and telephone numbers of each minority and female walk-in applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
4. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
5. Develop on-the-job training opportunities, participate in training programs for the area, or both which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 1 above.
6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreements; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

7. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignments, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as superintendents, foreman, etc., prior to the initiation of Work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and dispositions of the subject matter.
8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
9. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
10. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
11. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
12. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
13. Ensure that seniority practices, job classifications, work assignments and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
14. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
15. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
16. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

5. VIOLATION OR BREACH OF REQUIREMENTS:

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

6. MONTHLY EMPLOYMENT UTILIZATION REPORTS:

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

1. State of California Department of Transportation Payroll Report. Due to the City weekly.
2. Federal and Non-Federal Work in San Diego County. Submit an updated list only if work is complete or new contracts have been awarded during the span of this project.

7. RECORDS OF PAYMENTS TO DBEs:

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

8. FEDERAL WAGE REQUIREMENTS FOR FEDERALLY FUNDED PROJECTS:

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

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

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

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

- 8.5. A Contractor having 50 or more employees and its Subcontractors having 50 or more employees and who may be awarded a contract of \$50,000 or more will be required to maintain an affirmative action program, the standards for which are contained in the specifications.
- 8.6. To be eligible for award, each Bidder shall comply with the affirmative action requirements which are contained in the specifications.
- 8.7. Women will be afforded equal opportunity in all areas of employment. However, the employment of women shall not diminish the standards of requirements for the employment of minorities.
9. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
- 9.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
- 9.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
- 9.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.

- 9.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed.
- 9.3. **Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 9.3.1. For contracts entered into on or after April 1, 2015, Contractor and their subcontractors shall furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 9.4. **Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 9.5. **Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on design professionals and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 9.6. **Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 9.7. **Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."

9.8. Labor Compliance Program. The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000.

9.9. Contractor and Subcontractor Registration Requirements. This project is subject to compliance monitoring and enforcement by the DIR. As of March 1, 2015, no contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. As of April 1, 2015, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City upon request.

9.9.1. A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

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

General Decision Number: CA160001 02/12/2016 CA1

Superseded General Decision Number: CA20150001

State: California

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

County: San Diego County in California.

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/08/2016
1	02/12/2016

ASBE0005-002 07/01/2015

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 36.74	19.49
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 25.38	16.81

ASBE0005-004 06/29/2015

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 18.06	10.57

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER.....	\$ 41.17	28.27

BRCA0004-008 11/01/2015

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 34.44	17.21

BRCA0018-004 06/01/2014

	Rates	Fringes
MARBLE FINISHER.....	\$ 28.45	11.38
TILE FINISHER.....	\$ 23.78	9.84

TILE LAYER.....\$ 35.14 14.33

BRCA0018-010 09/01/2013

Rates Fringes

TERRAZZO FINISHER.....\$ 26.59 10.34

TERRAZZO WORKER/SETTER.....\$ 33.63 11.13

CARP0409-002 07/01/2008

Rates Fringes

Diver

(1) Wet.....\$ 663.68 9.82

(2) Standby.....\$ 331.84 9.82

(3) Tender.....\$ 323.84 9.82

(4) Assistant Tender.....\$ 299.84 9.82

Amounts in "Rates" column are per day

CARP0409-008 08/01/2010

Rates Fringes

Modular Furniture Installer.....\$ 17.00 7.41

CARP0547-001 07/01/2009

Rates Fringes

CARPENTER

(1) Bridge.....\$ 37.28 10.58

(2) Commercial Building....\$ 32.30 10.58

(3) Heavy & Highway.....\$ 37.15 10.58

(4) Residential Carpenter..\$ 25.84 10.58

(5) Residential

Insulation Installer.....\$ 18.00 8.16

MILLWRIGHT.....\$ 37.65 10.58

PILEDRIVERMAN.....\$ 37.28 10.58

CARP0547-002 07/01/2009

Rates Fringes

Drywall

(1) Work on wood framed
construction of single
family residences,

apartments or condominiums	
under four stories	
Drywall Installer/Lather...\$ 21.00	8.58
Drywall Stocker/Scrapper...\$ 11.00	6.67
(2) All other work	
Drywall Installer/Lather...\$ 27.35	9.58
Drywall Stocker/Scrapper...\$ 11.00	6.67

ELEC0569-001 08/31/2015

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....\$ 46.88		13.54
Electrician.....\$ 46.13		13.51
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer.....\$ 41.75		13.38
Electrician.....\$ 41.00		13.36

ELEC0569-005 06/01/2015

	Rates	Fringes
Sound & Communications		
Sound Technician.....\$ 29.55		11.92

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

ELEC0569-006 10/05/2015

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

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....\$ 29.50		8.31
Utility Technician #2.....\$ 24.65		8.16

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter

enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

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

 ELEC0569-008 08/31/2015

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 30.75	7.54

 ELEC1245-001 06/01/2015

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 52.85	15.53
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 42.21	14.32
(3) Groundman.....	\$ 32.28	14.03
(4) Powderman.....	\$ 47.19	14.60

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

 ELEV0018-001 01/01/2015

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 49.90	28.38

FOOTNOTE:
 PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5

years of service, and 6% for 6 months to 5 years of service.
 PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day,
 Labor Day, Veterans Day, Thanksgiving Day, Friday after
 Thanksgiving, and Christmas Day.

 ENGI0012-003 07/06/2015

	Rates	Fringes
OPERATOR: Power Equipment		
(All Other Work)		
GROUP 1.....	\$ 39.95	23.35
GROUP 2.....	\$ 40.73	23.35
GROUP 3.....	\$ 41.02	23.35
GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 41.86	23.35
GROUP 6.....	\$ 41.83	23.35
GROUP 8.....	\$ 42.84	23.35
GROUP 9.....	\$ 42.19	23.35
GROUP 10.....	\$ 42.96	23.35
GROUP 11.....	\$ 42.31	23.35
GROUP 12.....	\$ 43.13	23.35
GROUP 13.....	\$ 43.23	23.35
GROUP 14.....	\$ 43.26	23.35
GROUP 15.....	\$ 43.34	23.35
GROUP 16.....	\$ 43.46	23.35
GROUP 17.....	\$ 43.63	23.35
GROUP 18.....	\$ 43.73	23.35
GROUP 19.....	\$ 43.84	23.35
GROUP 20.....	\$ 43.96	23.35
GROUP 21.....	\$ 44.13	23.35
GROUP 22.....	\$ 44.23	23.35
GROUP 23.....	\$ 44.34	23.35
GROUP 24.....	\$ 44.46	23.35
GROUP 25.....	\$ 44.63	23.35
OPERATOR: Power Equipment		
(Cranes, Piledriving & Hoisting)		
GROUP 1.....	\$ 41.30	23.35
GROUP 2.....	\$ 42.08	23.35
GROUP 3.....	\$ 42.37	23.35
GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 42.73	23.35
GROUP 6.....	\$ 42.84	23.35
GROUP 7.....	\$ 42.96	23.35
GROUP 8.....	\$ 43.13	23.35
GROUP 9.....	\$ 43.30	23.35
GROUP 10.....	\$ 44.30	23.35
GROUP 11.....	\$ 45.30	23.35

GROUP 12.....	\$ 46.30	23.35
GROUP 13.....	\$ 47.30	23.35
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 41.80	23.35
GROUP 2.....	\$ 42.58	23.35
GROUP 3.....	\$ 42.87	23.35
GROUP 4.....	\$ 43.01	23.35
GROUP 5.....	\$ 43.23	23.35
GROUP 6.....	\$ 43.34	23.35
GROUP 7.....	\$ 43.46	23.35

PREMIUM PAY:

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

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

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

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

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

Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

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

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

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity); Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000

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

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

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth-moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self-loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

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

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

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

engine-up to and including 25 yds. struck)

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

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

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

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

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

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

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system

(single engine, up to and including 25 yds. struck)

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

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

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

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

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

GROUP 2: Truck crane oiler

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

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

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

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline,

clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

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

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

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

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

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

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

TUNNEL CLASSIFICATIONS

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

GROUP 2: Power-driven jumbo form setter operator

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

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

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

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

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

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

boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SBM to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

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

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

and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

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

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

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2015

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 49.50	23.60
(2) Dredge dozer.....	\$ 43.53	23.60
(3) Deckmate.....	\$ 43.42	23.60
(4) Winch operator (stern		

winch on dredge).....\$ 42.87	23.60
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....\$ 42.33	23.60
(6) Barge Mate.....\$ 42.94	23.60

IRON0377-002 07/01/2015

	Rates	Fringes
Ironworkers:		
Fence Erector.....\$ 27.08		20.21
Ornamental, Reinforcing and Structural.....\$ 33.50		28.85

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

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

\$2.00 additional per hour at the following locations:

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

LABO0089-001 07/01/2014

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....\$ 27.57		16.19
Group 2.....\$ 28.25		16.19
Group 3.....\$ 28.96		16.19
Group 4.....\$ 29.76		16.19
Group 5.....\$ 31.69		16.19

LABORER (RESIDENTIAL

CONSTRUCTION - See definition below)

(1) Laborer.....	\$ 25.47	14.52
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).	\$ 24.18	14.52

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

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

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

GROUP 3: Buggymobile; Concrete cutting torch; Concrete

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

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

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

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 27.98	13.39

LABO0089-004 07/01/2015

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 27.57	16.19
Group 2.....	\$ 28.25	16.19
Group 3.....	\$ 28.96	16.19
Group 4.....	\$ 29.76	16.19
Group 5.....	\$ 31.69	16.19

LABORER CLASSIFICATIONS

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

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt,

lay-kold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

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

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

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of

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

LABO0300-005 01/01/2014

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 28.00	15.25

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

LABO1184-001 08/01/2015

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...	\$ 32.60	12.16
(2) Vehicle Operator/Hauler.	\$ 32.77	12.16
(3) Horizontal Directional Drill Operator.....	\$ 34.62	12.16
(4) Electronic Tracking Locator.....	\$ 36.62	12.16
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 33.76	15.04
GROUP 2.....	\$ 35.06	15.04
GROUP 3.....	\$ 37.07	15.04
GROUP 4.....	\$ 38.81	15.04

LABORERS - STRIPING CLASSIFICATIONS

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

operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

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

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

LABO1414-003 08/05/2015

Rates Fringes

LABORER

PLASTER CLEAN-UP LABORER....\$ 30.16 17.11
PLASTER TENDER.....\$ 32.71 17.11

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

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

PAIN0036-001 07/01/2015

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 27.29	12.83
(2) All Other Work.....	\$ 30.72	12.83

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 10/01/2014

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 26.84	14.29
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 21.00	13.91

PAIN0036-012 10/01/2015

	Rates	Fringes
GLAZIER.....	\$ 40.80	17.66

* PAIN0036-019 01/01/2016

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 26.77	13.53

PLAS0200-005 08/06/2015

	Rates	Fringes
PLASTERER.....	\$ 38.44	13.77

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional

per hour.

PLAS0500-001 07/01/2015

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.47	17.32
GROUP 2.....	\$ 28.12	17.32
GROUP 3.....	\$ 30.75	17.27

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

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 07/01/2015

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton.....	\$ 50.46	20.71
Plumber and Pipefitter All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 45.96	20.71
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000		

sq. ft. of floor space.....\$ 44.51	19.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....\$ 35.16	18.06

 PLUM0016-011 07/01/2015

	Rates	Fringes
PLUMBER/PIPEFITTER Residential.....\$ 37.17		16.63

 PLUM0345-001 07/01/2014

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

 ROOF0045-001 07/01/2012

	Rates	Fringes
ROOFER.....\$ 25.08		7.28

 SFCA0669-001 07/01/2013

	Rates	Fringes
SPRINKLER FITTER.....\$ 34.86		18.66

 SHEE0206-001 01/01/2012

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

SHEET METAL TECHNICIAN - SCOPE:

- a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system
- b. New single family residential buildings including tracts.
- c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and

motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under \$1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

 TEAM0036-001 07/01/2012

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

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

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

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

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

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

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

GROUP 7: Repairman

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

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

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

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

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

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

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

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

END OF GENERAL DECISION

11. AGENCY SPECIFIC PROVISIONS:

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

11.1. FHWA Requirements (Contracts via Caltrans)

- 11.1.1. The Bidders' attention is directed to the provisions in Section 2, "Bidding," of the Caltrans Standard Specifications and conditions which the bidder must observe in the preparation of and the submission of the bid.
- 11.1.2. Bidders shall be fully informed with respect to the requirements of the DBE Regulations and take necessary and reasonable steps to ensure that Disadvantaged Business Enterprises (DBEs) have opportunity to participate in the contract.
- 11.1.3. The Contractors are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all eligible DBE certified Subcontractors. To support its Equal Opportunity Contracting commitment, the City has implemented a project specific goal methodology required for all Caltrans funded projects.
- 11.1.4. See the Notice Inviting Bids for the Subcontracting Participation requirements.
- 11.1.5. The Bidder's attention is directed to the provisions in Section 5, "Control of Work," of the Caltrans Standard Specifications and conditions which the bidder must observe in the preparation of and the submission of the bid.
- 11.1.6. The Contractor shall complete the following forms and shall submit the forms in accordance with the Caltrans Standard Specifications:
 - 1. Final Report – Utilization of DBE, First Tier Subcontractors
 - 2. Monthly DBE Trucking Verification
 - 3. Exhibit 15-G Local Agency Bidder DBE Commitment
 - 4. Subcontracting Request
 - 5. Exhibit 15-H DBE Information-Good Faith Efforts
 - 6. DBE Certification Status Change
 - 7. FHWA PR-1391

12. GOOD FAITH EFFORT DOCUMENTATION SUBMITTALS:

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

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

CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14TH FLOOR, MS 614C
SAN DIEGO, CA 92101
SUBJECT: AFFIRMATIVE GOOD FAITH EFFORT DOCUMENTATION
BID NO. K-16-1316-DBB-3-B

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

13. FORMS:

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

13.1.1. E-BIDDING FORMS - The following forms shall be completed and submitted within **4 Working Days of the Bid opening**. Failure to include any of the forms shall cause the Bid to be deemed **non-responsive**.

1. Final Report – Utilization of DBE, First Tier Subcontractors
2. Monthly DBE / DBE Trucking Verification
3. Exhibit 15 G - Local Agency Bidder DBE Commitment (Construction Contracts)
4. Subcontracting Request
5. Exhibit 15-H DBE Information-Good Faith Efforts
6. DBE Certification Status Change
7. FHWA PR-1391

FUNDING AGENCY PROVISIONS

FORMS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
FINAL REPORT-UTILIZATION OF DISADVANTAGED BUSINESS ENTERPRISES
FIRST-TIER SUBCONTRACTORS
 CEM-2402F (REV 7/2012)

ADA Notice
 For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

CONTRACT NUMBER	COUNTY	ROUTE	POST MILES	FEDERAL AID PROJECT NUMBER	ADMINISTERING AGENCY	CONTRACT COMPLETION DATE		
PRIME CONTRACTOR			BUSINESS ADDRESS			ESTIMATED CONTRACT AMOUNT \$		
ITEM NO.	DESCRIPTION OF WORK PERFORMED AND MATERIAL PROVIDED	COMPANY NAME AND BUSINESS ADDRESS	DBE CERT. NUMBER	CONTRACT PAYMENTS			DATE WORK COMPLETE	DATE OF FINAL PAYMENT
				NON-DBE	DBE	UDBE		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
				\$	\$	\$		
ORIGINAL COMMITMENT \$ _____ DBE/UDBE				Total	\$	\$	\$	

List all First Tier Subcontractors, Disadvantaged Business Enterprises (DBEs) and underutilized DBEs (UDBEs) regardless of tier, whether or not the firms were originally listed for goal credit. If actual UDBE utilization (or item of work) was different than that approved at the time of award, provide comments on the following page after the instructions. List actual amount paid to each entity.

I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT

CONTRACTOR REPRESENTATIVE'S SIGNATURE	BUSINESS PHONE NUMBER	DATE
I CERTIFY THAT THE CONTRACTING RECORDS AND ON-SITE PERFORMANCE OF THE DBE(S) HAS BEEN MONITORED		
RESIDENT ENGINEER'S SIGNATURE	BUSINESS PHONE NUMBER	DATE

COPY DISTRIBUTION - Caltrans contracts: Original - District Construction Copy- Contractor Copy - Resident Engineer Copy Resident Engineer
 Copy Distribution-Local Agency contracts: Original - Local Agency Resident Engineer Copy- District Local Assistance Engineer Copy- Local Agency file

Instructions

Contracts advertised on or before June 15, 2012 may contain Underutilized Disadvantaged Business Enterprise goals (UDBE). Participation for UDBE firms must be reported in the UDBE column. Contracts advertised after June 15, 2012 may contain Disadvantaged Business Enterprise (DBE) goals. Participation for contracts advertised after June 15, 2012 must be reported as DBE.

This form has three columns for entering the dollar value for the item(s) of work performed or provided by the firm. The Non-DBE column is used to enter the dollar value of work performed by first-tier subcontracting firms who are not certified as a DBE or UDBE.

The DBE column is used to enter the dollar value of work performed by firms that do not fall into the UDBE category as defined below. The UDBE column is used to enter the dollar value of work performed by firms who fall under one of the following underutilized groups:

- Black American
- Asian Pacific American
- Native American
- Women

DBE and UDBE prime contractors are required to show the corresponding dollar value of work performed by their own forces.

If a firm performing work as a DBE or UDBE on the project becomes decertified and still performs work after the decertification date, enter the total value performed by this firm under the appropriate DBE and UDBE identification column. If a subcontractor performing work as a non-DBE on the project becomes certified as a DBE, enter the dollar value of all work performed after certification as a DBE under the appropriate identification column. Any changes to DBE certification must also be submitted on Form CEM-2403F.

Enter the Date Work Completed as well as the Date of Final Payment (the date when the prime contractor made the "final payment" to the firm for the portion of work listed as being completed). DBE and UDBE prime contractors are required to show the date of work performed by their own forces.

Use the comments section to explain any differences in the original commitment and the final utilization of DBE and UDBE firms.

The contractor and the resident engineer sign and date the form indicating that the information provided is completed and correct and the DBE paperwork and worksites have been monitored for participation.

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION
MONTHLY DBE/DBE TRUCKING VERIFICATION
 CEM-2404(F) (REV 7/2012)

CONTRACT NO.			MONTH				YEAR	
TRUCKING COMPANY OR OWNER OPERATOR	DBE Cert. No. (if certified)	Company Name and Address Telephone Number	Truck No.	CA No.	Amount paid to DBE and DBE Truckers	Amount Paid to DBE and DBE for lease arrangement with non-DBE and DBE	Date Paid	Transportation Arrangement (√ all that apply)
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
					\$	\$		<input type="checkbox"/> Lease <input type="checkbox"/> Non-DBE <input type="checkbox"/> DBE <input type="checkbox"/> DBE
TOTAL AMOUNT PAID					\$ 0.00	\$ 0.00		
PRIME CONTRACTOR			BUSINESS ADDRESS				BUSINESS PHONE NUMBER	
<i>*Upon request all lease agreements must be made available, in accordance with the special provisions.</i>								
I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT								
CONTRACTOR REPRESENTATIVE'S SIGNATURE			TITLE				DATE	

COPY DISTRIBUTION: ORIGINAL – RESIDENT ENGINEER COPY – Civil Rights
 For individual with sensory disabilities, this document is available in alternate formats. For information call (916) 654-3880 or
ADA Notice write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814

INSTRUCTIONS

Contracts advertised on or before June 15, 2012 may contain DBE contract goals. DBE trucking participation must be reported on contracts with DBE goals only. All other trucking participation must be reported as DBE or non-DBE.

In the "Amount paid to DBE and DBE Truckers" column, the contractor must show the dollar amount paid to:

1. DBE and DBE trucking companies using trucks it owns, insures and operates. Include 100 percent of the amount paid to DBE and DBE for trucking services provided.
2. DBE and DBE trucking companies who lease from other DBE and DBE trucking companies or owner operators. Include 100 percent of the amount paid to DBE and DBE for trucking services provided.
3. To ensure proper crediting of participation on contracts advertised on or before June 15, 2012, identify the firm as a DBE or DBE in the "Transportation Arrangement" column.
4. In the "Amount paid to DBE/DBE for lease arrangement with non-DBE/DBE" column, the contractor must show the dollar amount paid to the DBE and DBE who leases trucks from non-DBE firms. Include only the amount for the fee or commission received as a result of the lease arrangement.
5. In the "Transportation Arrangement" column check all that apply for each firm listed. Use the DBE check box for all DBE trucking participation on contracts advertised after June 15, 2012.
6. The prime contractor or its representative must sign, including the individual's title and the date, certifying that the information provided on the form is complete and accurate.

The form must be submitted to the Department of Transportation before the 15 of each month

**INSTRUCTIONS - LOCAL AGENCY BIDDER
DBE COMMITMENT (CONSTRUCTION CONTRACTS)**

ALL BIDDERS:

PLEASE NOTE: This information may be submitted with your bid. If it is not, and you are the apparent low bidder or the second or third low bidder, it must be submitted and received as specified in the Special Provisions. Failure to submit the required DBE commitment will be grounds for finding the bid nonresponsive

The form requires specific information regarding the construction contract: Local Agency, Location, Project Description, Total Contract Amount, Bid Date, Bidder's Name, and Contract DBE Goal.

The form has a column for the Contract Item Number and Item of Work and Description or Services to be Subcontracted or Materials to be provided by DBEs. Prime contractors shall indicate all work to be performed by DBEs including, if the prime is a DBE, work performed by its own forces, if a DBE. The DBE shall provide a certification number to the Contractor and expiration date. Enter the DBE prime's and subcontractors' certification numbers. The form has a column for the Names of DBE contractors to perform the work (who must be certified on the date bids are opened and include the DBE address and phone number).

IMPORTANT: Identify all DBE firms participating in the project regardless of tier. Names of the First-Tier DBE Subcontractors and their respective item(s) of work listed should be consistent, where applicable, with the names and items of work in the "List of Subcontractors" submitted with your bid.

There is a column for the DBE participation dollar amount. Enter the Total Claimed DBE Participation dollars and percentage amount of items of work submitted with your bid pursuant to the Special Provisions. (If 100% of item is not to be performed or furnished by the DBE, describe exact portion of time to be performed or furnished by the DBE.) See Section "Disadvantaged Business Enterprise (DBE)," of the Special Provisions (construction contracts), to determine how to count the participation of DBE firms.

Exhibit 15-G must be signed and dated by the person bidding. Also list a phone number in the space provided and print the name of the person to contact.

Local agencies should complete the Local Agency Contract Award, Federal-aid Project Number, Federal Share, Contract Award Date fields and verify that all information is complete and accurate before signing and filing.

SUBCONTRACTING REQUEST

CEM-1201 (REV. 5/2012)

INSTRUCTIONS

All First-tier subcontractors must be included on a subcontracting request.

Before subcontracting work starts, the contractor will submit an original CEM-1201 according to the Standard Specifications. After approval, the RE returns the original to the contractor and complete the remaining distribution as listed on the bottom of the form.

When an entire item is subcontracted, show the contractor's bid price.

When a portion of an item is subcontracted, describe the portion and show the percentage of the bid item and value.

In August 2008, the Standard Specifications were amended to eliminate specialty items. Enter Zeros or applicable amounts for specialty items should be entered in lines 2 and 3 of this form, depending on whether the contract includes the amendment.

THIS FORM IS NOT TO BE USED FOR SUBSTITUTIONS OF SUBCONTRACTORS AND DBE, DVBE OR SMALL BUSINESS ENTITIES

EXHIBIT 15-H DBE INFORMATION — GOOD FAITH EFFORTS

DBE INFORMATION - GOOD FAITH EFFORTS

Federal-aid Project No. _____ Bid Opening Date: _____

The City of San Diego established a Disadvantaged Business Enterprise (DBE) goal of 13.0% for this project. The information provided herein shows that a good faith effort was made.

Lowest, second lowest and third lowest bidders shall submit the following information to document adequate good faith efforts. Bidders should submit the following information even if the "Local Agency Bidder DBE Commitment" form indicates that the bidder has met the DBE goal. This will protect the bidder's eligibility for award of the contract if the administering agency determines that the bidder failed to meet the goal for various reasons, e.g., a DBE firm was not certified at bid opening, or the bidder made a mathematical error.

Submittal of only the "Local Agency Bidder DBE Commitment" form may not provide sufficient documentation to demonstrate that adequate Good Faith Effort was made.

The following items are listed in the Section entitled "Submission of DBE Commitment" of the Special Provisions:

- A. The names and dates of each publication in which a request for DBE participation for this project was placed by the bidder (please attach copies of advertisements or proofs of publication):

<u>Publications</u>	<u>Date of Advertisement</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

- B. The names and dates of written notices sent to certified DBEs soliciting bids for this project and the dates and methods used for following up initial solicitations to determine with certainty whether the DBEs were interested (please attach copies of solicitations, telephone records, fax confirmations, etc.):

<u>Names of DBEs Solicited</u>	<u>Date of Initial Solicitation</u>	<u>Follow Up Methods and Dates</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

C. The items of work which the bidder made available to DBE firms including, where appropriate, any breaking down of the contract work items (including those items normally performed by the bidder with its own forces) into economically feasible units to facilitate DBE participation. It is the bidder's responsibility to demonstrate that sufficient work to facilitate DBE participation was made available to DBE firms.

Items of Work	Bidder Normally Performs Item (Y/N)	Breakdown of Items	Amount(\$)	Percentage Of Contract

D. The names, addresses and phone numbers of rejected DBE firms, the reasons for the bidder's rejection of the DBEs, the firms selected for that work (please attach copies of quotes from the firms involved), and the price difference for each DBE if the selected firm is not a DBE:

Names, addresses and phone numbers of rejected DBEs and the reasons for the bidder's rejection of the DBEs:

Names, addresses and phone numbers of firms selected for the work above:

E. Efforts made to assist interested DBEs in obtaining bonding, lines of credit or insurance, and any technical assistance or information related to the plans, specifications and requirements for the work which was provided to DBEs

F. Efforts made to assist interested DBEs in obtaining necessary equipment, supplies, materials or related assistance or services, excluding supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate:

G. The names of agencies, organizations or groups contacted to provide assistance in contacting, recruiting and using DBE firms (please attach copies of requests to agencies and any responses received, i.e., lists, Internet page download, etc.):

Name of Agency/Organization	Method/Date of Contact	Results
-----------------------------	------------------------	---------

H. Any additional data to support a demonstration of Good Faith Effort (use additional sheets if necessary):

NOTE: USE ADDITIONAL SHEETS OF PAPER IF NECESSARY.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
DISADVANTAGED BUSINESS ENTERPRISES (DBE)
CERTIFICATION STATUS CHANGE
CEM-2403F (REV 7/2012)

The top of the form requires specific information regarding the construction project: Contract Number, County, Route, Post Miles, the Administering Agency (Caltrans), the Contract Completion Date and the Estimated Contract Amount. It requires the prime contractor name and business address. The focus of the form is to substantiate and verify the actual DBE dollar amount paid to contractors on federally funded projects that had a change in certification status during the course of the completion of the contract. The two situations that are being addressed by CEM 2403F are if a firm certified as a DBE and doing construction work on the contract during the course of the project becomes decertified, and if a non-DBE firm doing work on the contract during the course of the project becomes certified as a DBE.

The form has a column to enter the Contract Item No. (or Item No's), as well as a column for the Subcontractor name and Business Address, Business Phone and contractor's Certification Number.

The column entitled Amount Paid While Certified will be used to enter the actual dollar value of the work performed by those contractors who meet the conditions as outlined above during the time period they are certified as a DBE. This column on the CEM-2403(F) should only reflect the dollar value of work performed while the firm was certified as a DBE.

The column called Certification/Decertification Date (Letter attached) will reflect either the date of the Decertification Letter sent out by the Civil Rights or the date of the Certification Certificate mailed out by the Civil Rights. There is a box to check that support documentation is attached to the CEM-2403(F) form.

There is a comments section for any additional information that may need to be provided regarding any of the above transactions.

The CEM-2403(F) has an area at the bottom where the contractor and the resident engineer sign and date that the information provided is complete and correct.

FEDERAL-AID HIGHWAY CONSTRUCTION CONTRACTORS ANNUAL EEO REPORT

1. MARK APPROPRIATE BOX	2. COMPANY NAME, CITY, STATE	3. PROJECT NUMBER:	4. DOLLAR AMOUNT OF CONTRACT	5. PROJECT LOCATION (County and State)
<input type="checkbox"/> Contractor				
<input type="checkbox"/> Subcontractor				

This collection of information is required by law and regulation 23 U.S.C. 140a and 23 CFR Part 230. The OMB control number for this collection is 2125-0019 expiring in March, 2016

6. WORKFORCE ON FEDERAL-AID AND CONSTRUCTION SITE(S) DURING LAST FULL PAY PERIOD ENDING IN JULY 20 (INSERT YEAR)

JOB CATEGORIES	TABLE A														TABLE B							
	TOTAL EMPLOYED		TOTAL/RACIAL/ETHNIC MINORITY		BLACK OR AFRICAN AMERICAN		HISPANIC OR LATINO		AMERICAN INDIAN OR ALASKA NATIVE		ASIAN		NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER		TWO OR MORE RACES		WHITE		APPRENTICES		ON THE JOB TRAINEES	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
OFFICIALS																						
SUPERVISORS																						
FOREMEN/WOMEN																						
CLERICAL																						
EQUIPMENT OPERATORS																						
MECHANICS																						
TRUCK DRIVERS																						
IRONWORKERS																						
CARPENTERS																						
CEMENT MASONS																						
ELECTRICIANS																						
PIPEFITTER/PLUMBERS																						
PAINTERS																						
LABORERS-SEMI SKILLED																						
LABORERS-UNSKILLED																						
TOTAL																						

TABLE C (Table B data by racial status)

APPRENTICES																						
OJT TRAINEES																						

8. PREPARED BY: (Signature and Title of Contractors Representative)	9. DATE	10. REVIEWED BY (Signature and Title of State Highway Official)	11. DATE

LOCAL AGENCY NOTIFICATION TO CONTRACTOR

INSTRUCTIONS FOR COMPLETING FEDERAL HIGHWAY ADMINISTRATION (FHWA) PR-1391 FORM

The FHWA PR-1391 form shall be used to report the number of minority and non-minority employees by gender employed in each work classification on a Federal-aid contract. The "Job Categories" column is used to identify work classification. When identifying work classifications, use only the categories listed on the form. Miscellaneous job categories are to be incorporated in the most appropriate category listed on the form.

WHO MUST REPORT:

Each prime contractor and subcontractor regardless of tier who has a Federal-aid contract exceeding \$10,000 must report.

REPORT DATA:

Each contractor is to collect data of the number of project personnel who worked all or any part of the last full week of July. Contractors who do not perform any work during the last full week of July must write "Not Applicable" across the form, sign, date and return.

DUE DATE:

Due on or before the 12th of August to the Local Agency Resident Engineer. The Local Agency Resident Engineer must submit the report to the District Local Assistance Engineer by August 26th.

DEFINITION OF TERMS:

OFFICIALS (Managers): Officers, project engineers, superintendents, etc., who have management-level responsibility and authority.

SUPERVISORS: All levels for project supervision, if any, between management and foremen levels.

FOREMEN/WOMEN: Men and women in direct charge of crafts workers and laborers performing work on the project.

MECHANICS: Equipment service and maintenance personnel.

LABORERS, SEMI-SKILLED: All laborers classified by specialized type of work.

LABORERS, UNSKILLED: All non-classified laborers.

OTHERS: Miscellaneous job classifications are to be incorporated in the most appropriate category listed on the form. All employees on the project should be accounted for.

BLOCK ENTRIES

- CHECK APPROPRIATE BLOCK – Check only one box.
- COMPANY NAME, CITY, STATE – Enter the firm’s name, city or town, and state. Do not abbreviate.
- (3) PROJECT NUMBER – Enter all Federal-aid project number(s) associated with the contract number. (If you are a subcontractor and do not know the Federal-aid project number, contact the prime contractor).
- (4) DOLLAR AMOUNT OF CONTRACT – Enter dollar amount of contract, including amended amounts.
- I. PROJECT LOCATION – Enter all county(ies) and state(s) associated with the contract number. (If you are a subcontractor and do not know the county(ies) and state(s), contact the prime contractor).
- II. WORKFORCE ON FEDERAL-AID AND CONSTRUCTION SITE(S) DURING LAST FULL PAY PERIOD ENDING IN JULY 20 () (INSERT YEAR) – Enter the last two digits of the calendar year you are reporting data for.

TABLE A – Enter number of employee(s) based on race, gender and job category during the reporting period.

TABLE B – Enter number of apprentice(s) and on-the-job trainee(s) based on gender and job category during the reporting period.

TABLE C – enter number of apprentice(s) and on-the-job trainee(s) based on race and gender during the reporting period.

1. PREPARED BY – Signature and Title of Contractor’s Representative certifying the reported data to be true.
2. DATE – Enter the date the Contractor’s Representative signed this form.
3. REVIEWED BY – Signature and Title of Local Agency Official reviewing data.
4. DATE – Enter the date the Local Agency Official signed this form.

CERTIFICATE OF INSURANCE

Description of Contract: City of San Diego - CONSTRUCTION OF Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

Type of Insurance: Workers' Compensation Insurance

THIS IS TO CERTIFY that the following policy has been issued by the below stated company in conformance with the requirements of Section 7-1.12B (1)(a) "Workers' Compensation", of the Caltrans Standard Specifications and is in force at this time.

The Company will give at least thirty (30) days written notice by certified mail to the City and Consulting Engineer prior to any material change or cancellation of said policy.

<u>POLICY NUMBER</u>	<u>EXPIRATION DATE</u>	<u>LIMITS OF LIABILITY</u>
		Statutory Limits Under the laws of the State of California

_____	_____
Name Insured (Contractor)	Insured Company
_____	_____
Street Number	Street Number
_____	_____
City and State	City and State

	Company Representative

State of _____)
 _____) (SEE NOTICE ON NEXT PAGE)
 County of _____)

On this ___ day of _____, 20___, before me personally came _____ to me known, who being duly sworn, did depose and say: That _____ is an authorized representative of the _____ acknowledged to me that _____ executed the within instrument on _____ behalf of said insurance company.

IN WITNESS WHEREOF, I have signed and affixed my official seal on the date in this certificate first above written.

Notary Public

Certificate of Insurance
(Workers' Compensation) - 1 of 2

CERTIFICATE OF INSURANCE

Description of Contract: City of San Diego - CONSTRUCTION OF Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

Type of Insurance: Workers' Compensation Insurance

THIS IS TO CERTIFY that the following policy has been issued by the below stated company in conformance with the requirements of Section 7-1.12B (1)(a) "Workers' Compensation", of the Caltrans Standard Specifications and is in force at this time.

The Company will give at least thirty (30) days written notice by certified mail to the City and Consulting Engineer prior to any material change or cancellation of said policy.

<u>POLICY NUMBER</u>	<u>EXPIRATION DATE</u>	<u>LIMITS OF LIABILITY</u>
DTJUB3G88748915	11/01/2016	Statutory Limits Under the laws of the State of California
<u>Reyes Construction, Inc.</u>		<u>Travelers Property Casualty Co. of America</u>
Name Insured (Contractor)		Insured Company
<u>1383 S. Signal Drive</u>		<u>One Tower Square</u>
Street Number		Street Number
<u>Pomona, CA 91766-3844</u>		<u>Hartford, CT 06183</u>
City and State		City and State



Kyle Bridgwater, Company Representative

State of _____) See Attached
) (SEE NOTICE ON NEXT PAGE)
County of _____)

On this ____ day of _____, 20____, before me personally came _____ to me known, who being duly sworn, did depose and say: That _____ is an authorized representative of the _____ acknowledged to me that _____ executed the within instrument on _____ behalf of said insurance company.

IN WITNESS WHEREOF, I have signed and affixed my official seal on the date in this certificate first above written.

Notary Public

Certificate of Insurance
(Workers' Compensation) - 1 of 2

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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

State of California }

County of San Diego }

On 04/07/2016 before me, Claire Owens, Notary Public,
(Here insert name and title of the officer)

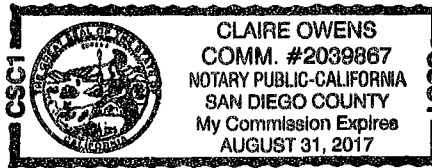
personally appeared Kyle Bridgwater,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~(s)~~ are subscribed to the within instrument and acknowledged to me that ~~he~~ she/they executed the same in ~~his~~ her/their authorized capacity(ies), and that by ~~his~~ 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.

Claire Owens

Notary Public Signature



(Notary Public Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)

- Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/she/~~they~~, is /~~are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

Insurance Company Agent for Service of Process in California:

<u>Kyle Bridgwater</u>	<u>Cavnignac & Associates</u>
Name	Agency
<u>450 B Street, Suite 1800</u>	<u>450 B Street, Suite 1800</u>
Street Number	Street Number
<u>San Diego, CA 92101</u>	<u>San Diego, CA 92101</u>
City and State	City and State
<u>619-744-0542</u>	<u>619-744-0542</u>
Telephone No.	Telephone No.

This certificate or verification of insurance is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies listed herein. Notwithstanding any requirements, term, or condition of any contract or other document with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies.

NOTICE:

No substitution or revision to the above certificate form will be accepted. If the insurance called for is provided by more than one insurance company, a separate certificate in the exact above form shall be provided for each insurance company.

Insurers must be authorized to do business and have an agent for service of process in California and have an "A-" policyholder's rating and financial rating of at least Class VII in accordance with the most current Best's Rating.

Certificate of Insurance
(Workers' Compensation) - 2 of 2

Certificate
INSURANCE ENDORSEMENT

Description of Contract: City of San Diego - CONSTRUCTION OF Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

Type of Insurance: Workers' Compensation Insurance

This endorsement forms a part of Policy No. DTJUB3G88748915.

ENDORSEMENT: It is agreed that with respect to such insurance as is afforded by the policy, the Company waives any right of subrogation it may acquire against the City, the Consulting Engineer, and their consultants, and each of their directors, officers, agents, and employees by reason of any payment made on account of injury, including death resulting therefrom, sustained by any employee of the insured, arising out of the performance of the above referenced contract.

This endorsement does not increase the Company's total limits of liability.

<u>Reyes Construction, Inc.</u> Name Insured (Contractor)	<u>Travelers Property Casualty Co. of America</u> Insurance Company
<u>1383 S. Signal Drive</u> Street Number	<u>One Tower Square</u> Street Number
<u>Pomona, CA 91766-3844</u> City and State	<u>Hartford, CT 06183</u> City and State

By 
Kyle Bridgwater, (Company Representative)

State of _____)

County of _____) See Attached

On this ____ day of _____, 20__, before me personally came _____ to be known, who being duly sworn, did depose and say: that _____ is an authorized representative of the _____ and acknowledged to me that _____ executed the within instrument on behalf of said insurance company.

IN WITNESS WHEREOF, I have signed and affixed my official seal on the date in this certificate first above written.

Notary Public

NOTICE: No substitution or revision to the above endorsement form will be accepted. If the insurance called for is provided by more than one policy, a separate endorsement in the exact above form shall be provided for each policy.

Insurance Endorsement (Workers' Compensation) - 1 of 1

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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

State of California }

County of San Diego }

On 04/07/2016 before me, Claire Owens, Notary Public
(Here insert name and title of the officer)

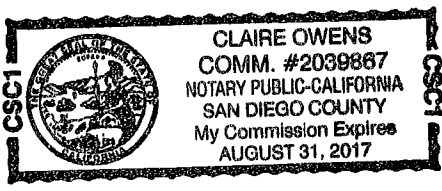
personally appeared Kyle Bridgwater,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~(s)~~ are subscribed to the within instrument and acknowledged to me that ~~he~~/she/they executed the same in ~~his~~/her/their authorized capacity(ies), and that by ~~his~~/her/their 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.

Claire Owens
Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

CAPACITY CLAIMED BY THE SIGNER

Individual (s)

Corporate Officer

_____ (Title)

Partner(s)

Attorney-in-Fact

Trustee(s)

Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

- This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.*
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 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
 - Securely attach this document to the signed document with a staple.

CERTIFICATE OF INSURANCE

Description of Contract: City of San Diego - CONSTRUCTION OF Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

Type of Insurance: Liability Insurance

THIS IS TO CERTIFY that the following policies have been issued to the below stated company in conformance with the requirements of Section 7-1.12 of the Standard Specifications and are in force at this time:

		Limits of Liability	
		<u>In Thousands (000)</u>	
<u>NUMBER</u>	<u>DATE</u>	<u>Each Occurrence</u>	<u>Aggregate</u>
<hr/>			
A. GENERAL LIABILITY			
Bodily Injury		\$ _____	_____
Property Damage		\$ _____	_____
Bodily Injury and Property Damage Combined		\$ 1,000	2,000
Personal Injury		\$ 1,000	2,000
<hr/>			
DT8103G887489TCT15	11/01/2016		
B. AUTOMOBILE LIABILITY			
Bodily Injury (Each Person)		\$ _____	_____
Bodily Injury (Each Occurrence)		\$ _____	_____
Bodily Injury and Property Damage Combined		\$ 1,000	N/A
<hr/>			
DTSMCUP3G887489TIL15	11/01/2016		
C. EXCESS LIABILITY			
Bodily Injury and Property Damage Combined		\$ 15,000	15,000
<hr/>			

Certificate of Insurance
(Liability) - 1 of 3

The following types of coverage are included in said policies (indicated by "X" in space):

A GENERAL LIABILITY:

Comprehensive Form	YES	<u> X </u>	NO	<u> </u>
Premises-Operations	YES	<u> X </u>	NO	<u> </u>
Explosion and Collapse Hazard.....	YES	<u> X </u>	NO	<u> </u>
Underground Hazard	YES	<u> X </u>	NO	<u> </u>
Products/Completed Operations Hazard	YES	<u> X </u>	NO	<u> </u>
Contractual Insurance	YES	<u> X </u>	NO	<u> </u>
Broad Form Property Damage Including Completed Operations	YES	<u> X </u>	NO	<u> </u>
Independent Contractors.....	YES	<u> X </u>	NO	<u> </u>
Personal Injury	YES	<u> X </u>	NO	<u> </u>

B. AUTOMOBILE LIABILITY

Comprehensive Form Including Loading and Unloading	YES	<u> X </u>	NO	<u> </u>
Owned	YES	<u> X </u>	NO	<u> </u>
Hired.....	YES	<u> X </u>	NO	<u> </u>
Non-Owned	YES	<u> X </u>	NO	<u> </u>

C. EXCESS LIABILITY

Umbrella Form	YES	<u> X </u>	NO	<u> </u>
Other than Umbrella Form	YES	<u> </u>	NO	<u> X </u>

This certificate or verification of insurance is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions, and conditions of such policies.

Certificate of Insurance
(Liability) - 2 of 3

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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State of California }

County of San Diego }

On 04/07/2016 before me, Claire Owens, Notary Public
(Here insert name and title of the officer)

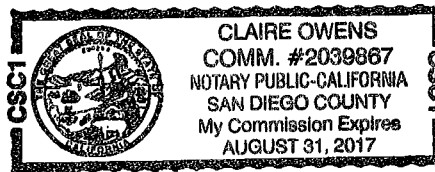
personally appeared Kyle Bridgwater
 who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~(s)~~ (s) are subscribed to the within instrument and acknowledged to me that ~~he~~ she/they executed the same in ~~his~~ her/their authorized capacity(ies), and that by ~~his~~ 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.

Claire Owens
 Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
- Corporate Officer
- _____ (Title)
- Partner(s)
- Attorney-in-Fact
- Trustee(s)
- Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

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- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/she/they, ~~is~~ /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
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 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

Certificate
~~INSURANCE ENDORSEMENT~~

Description of Contract: City of San Diego - CONSTRUCTION OF Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

Type of Insurance: Liability Insurance

This endorsement forms a part of Policy No. DT22CO3G887489TCT15.

ENDORSEMENT: The City, its officers and employees are included as additional insureds under said policies but only while acting in their capacity as such and only as respects operations of the named insured, his Contractors, and Subcontractor, any supplier, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable in the performance of the above-referenced contract. This insurance shall not apply if the loss or damage is ultimately determined to be the result of the sole and exclusive negligence (including any connected with the preparation or approval of maps, drawings, opinions, reports, surveys, designs, or specifications) of one or more of the aforesaid additional insureds. The insurance afforded to these additional insureds is primary insurance. If the additional insureds have other insurance which might be applicable to any loss, the amount of this insurance shall not be reduced or pro-rated by the existence of such other insurance.

The Contractual Liability Insurance afforded is sufficiently broad to insure all of the matters set forth in the section entitled, "Indemnity", in the Special Provisions of the above-referenced contract except those matters set forth in the fourth paragraph thereof.

This endorsement does not increase the Company's total limits of liability.

<u>Reyes Construction, Inc.</u>	<u>Travelers Property Casualty Co. of America</u>
Name Insured (Contractor)	Insurance Company
<u>1383 S. Signal Drive</u>	<u>One Tower Square</u>
Street Number	Street Number
<u>Pomona, CA 91766-3844</u>	<u>Hartford, CT 06183</u>
City and State	City and State

By 
Kyle Bridgwater (Company Representative)

State of _____) See Attached
) SEE NOTICE ON PAGE 2 of 2
County of _____)

On this ____ day of _____, 20__, before me personally came _____ to be known who being duly sworn, did depose and say: That _____ is an authorized representative of the _____ and acknowledged to me that _____ executed the within instrument on behalf of said insurance company.

Insurance Endorsement
(Liability) - Page 1 of 2

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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State of California }

County of San Diego }

On 04/07/2016 before me, Claire Owens, Notary Public
(Here insert name and title of the officer)

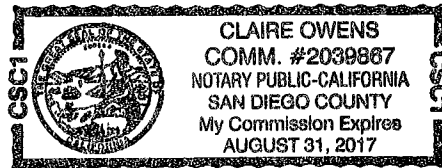
personally appeared Kyle Bridgwater,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he she/they executed the same in his her/their authorized capacity(ies), and that by his her/their signature(s)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

Claire Owens
Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
- Corporate Officer
- _____ (Title)
- Partner(s)
- Attorney-in-Fact
- Trustee(s)
- Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

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 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

IN WITNESS WHEREOF, I have signed and affixed my official seal on the date in this certificate first above written.

NOTARY PUBLIC

NOTICE: No substitution or revision to the above endorsement form will be accepted. If the insurance called for is provided by more than one policy, a separate endorsement in the exact above form shall be provided for each policy.

Insurers must be authorized to do business and have an agent for service of process in California and have an "A-" policyholder's rating and a financial rating of at least Class VII in accordance with the most current Best's Rating.

Insurance Endorsement
(Liability) - Page 2 of 2

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189



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

State of California)
County of Los Angeles)

On April 11, 2016 before me, Amy K. Roller, Notary Public,
Date Here Insert Name and Title of the Officer

personally appeared Ricardo Jimenez
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 Amy K. Roller
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

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

Description of Attached Document

Title or Type of Document: _____ Document Date: _____
Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

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

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



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: _____

IN WITNESS WHEREOF, I have signed and affixed my official seal on the date in this certificate first above written.

NOTARY PUBLIC

NOTICE: No substitution or revision to the above endorsement form will be accepted. If the insurance called for is provided by more than one policy, a separate endorsement in the exact above form shall be provided for each policy.

Insurers must be authorized to do business and have an agent for service of process in California and have an "A-" policyholder's rating and a financial rating of at least Class VII in accordance with the most current Best's Rating.

Insurance Endorsement
(Liability) - Page 2 of 2

**City of San Diego
Public Works Department, Field Engineering Division**

NOTICE OF MATERIALS TO BE USED

To: _____ Date: _____, 2_____
Resident Engineer

You are hereby notified that the materials required for use under Contract No. _____
for construction of _____
in the City of San Diego, will be obtained from sources herein designated.

CONTRACT ITEM NO. (Bid Item)	KIND OF MATERIAL (Category)	NAME AND ADDRESS WHERE MATERIAL CAN BE INSPECTED (At Source)

It is requested that you arrange for a sampling, testing, and inspection of the materials prior to delivery, in accordance with Section 4-1.11 of the WHITEBOOK, where it is practicable, and in accordance with your policy. It is understood that source inspection does not relieve the Contractor of full responsibility for incorporating in the work, materials that comply in all respects with the contract plans and specifications, nor does it preclude subsequent rejection of materials found to be undesirable or unsuitable.

Distribution:

Supplier

Yours truly,

Signature of Supplier

AddressPhone Number:

CALTRANS STANDARD SPECIFICATIONS

DIVISION I GENERAL PROVISIONS

Sections 1 through 9, and Sections 10 through 95 of the 2010 Standard Specifications, State of California, Department of Transportation (Caltrans) are modified by the special provisions that follow.

Conflicts shall be addressed as follows:

- a) In case of conflict between the Standard Specifications and these special provisions, these special provisions shall control.
- b) If there is a conflict in the General Provisions, i.e. between these special provisions and the City's standard specifications, the former shall control.

1 GENERAL

Add to section 1-1.07B:

ATTORNEY GENERAL - Wherever used in the Standard Specifications shall refer to City Attorney.

CITY - The City of San Diego, a chartered municipal corporation of the State of California.

DEPARTMENT OF TRANSPORTATION OR DEPARTMENT – Whenever used in the Standard Specifications, refers to the City of San Diego, except when used in reference to test methods of, or to denote publications or designate the mailing address of an agency of the State of California.

DIRECTOR OF TRANSPORTATION OR DIRECTOR - Whenever used in the Standard Specifications refers to the Mayor or Designee.

DIVISION OF MEASUREMENT STANDARDS - Wherever used in the Standard Specifications, shall refer to the Department of Agriculture - Weights and Measures of the County of San Diego.

GENERAL PROVISIONS - Sections 1 through 9 (as modified herein) of the 2010 Standard Specifications, State of California, Department of Transportation, and Part 1 of Standard Specifications for Public Works Construction and its City Supplement and Supplementary Special Provisions.

LABORATORY - The established laboratory authorized by Engineer to test materials used in the Work.

LIQUIDATED DAMAGES - The amount prescribed in the Specifications, pursuant to the authority of Public Cont Code §10226, to be paid to the City or to be deducted from any payments due or to become due the Contractor for each day's delay in completing the whole or any specified portion of the Work beyond the time allowed in these special provisions.

NOTICE TO BIDDERS – A Contract Document that provides a general work description, Bidder and Bid specifications, and the time and location the City receives Bids. See Notice Inviting Bids and Instructions to Bidders.

STATE OF CALIFORNIA OR STATE – As used in these specifications relative to the contract

administration refers to the City of San Diego

STATE CONTRACT ACT - Chapter 1, Division 2, of the Public Contract Code. The provisions of this act are not applicable to this contract.

REFERENCES - Where Standard Specifications refer to the Special Provisions to describe the Work, interpret the reference as a reference to the Bid Item List, the Special Provisions, or both. Interpret a reference to a section of the Standard Specifications as a reference to the Standard Specifications as revised by any amendment, special provision, or both. A reference within parentheses to a law or regulation is included in the Contract for convenience only and is not a comprehensive listing of related laws and regulations. Lack of a reference does not indicate no related laws or regulations exist. Where the version of a referenced document is not specified, use the current version in effect on the date of the invitation to bid. A reference to a subsection includes the section's general specifications of which the subsection is a part. A code not specified as a Federal code is a California code.

2 BIDDING

2-1.01 GENERAL

Section 2 includes specifications related to bid eligibility and the bidding process.

The bidder's attention is directed to the provisions in Section 2, "Bidding," of the Standard Specifications and these special provisions for the requirements and conditions which the bidder must observe in the preparation of and the submission of the bid.

The bidder's bond shall conform to the bond form in the Contract Documents for the project and shall be properly filled out and executed. The bidder's bond form included in that Contract Documents may be used.

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the Contract Documents. Signing the Contract Documents shall also constitute signature of the Noncollusion Affidavit.

Failure of the bidder to fulfill the requirements of the Special Provisions for submittals required to be furnished after bid opening, including but not limited to escrowed bid documents, where applicable, may subject the bidder to a determination of the bidder's responsibility in the event it is the apparent low bidder on a future public works contracts.

2-1.05 FEDERAL LOBBYING RESTRICTIONS. Section 1352, Title 31, United States Code prohibits Federal funds from being expended by the recipient or any lower-tier sub-recipient of a Federal-aid contract to pay for any person for influencing or attempting to influence a Federal agency or Congress in connection with the awarding of any Federal-aid contract, the making of any Federal grant or loan, or the entering into of any cooperative agreement.

If any funds other than Federal funds have been paid for the same purposes in connection with this Federal-aid contract, the recipient shall submit an executed certification and, if required, submit a completed disclosure form as part of the bid documents.

A certification for Federal-aid contracts regarding payment of funds to lobby Congress or a Federal

agency is included in the Bid book. Standard Form - LLL, "Disclosure of Lobbying Activities," with instructions for completion of the Standard Form is also included in the Bid book. Signing the Bid book shall constitute signature of the Certification.

The above referenced certification and disclosure of lobbying activities shall be included in each subcontract and any lower-tier contracts exceeding \$100,000. All disclosure forms, but not certifications, shall be forwarded from tier to tier until received by the Engineer.

The Contractor, subcontractors and any lower-tier contractors shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by the Contractor, subcontractors and any lower-tier contractors. An event that materially affects the accuracy of the information reported includes:

- (1) A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered federal action; or
- (2) A change in the person(s) or individual(s) influencing or attempting to influence a covered federal action; or
- (3) A change in the officer(s), employee(s), or member(s) contacted to influence or attempt to influence a covered Federal Action.

Add to section 2-1.06B:

The City of San Diego makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included herein	Geotechnical Evaluation Georgia Street Bridge and Retaining Walls, dated December 2014. Georgia Street Bridge Rehabilitation Project Final IS/MND, dated February 2013 Georgia Street Bridge Rehabilitation Categorical Exemption/Categorical Exclusion Determination, dated February 2013
Available for review by contacting the Contract Specialist or visiting: ftp://ftp.sannet.gov/	As built drawings for bridge and walls Inspection Reports and Load Rating, dated March, 2010. Material Testing of Bridge and Abutments, dated January 2012. Concrete Soundings, dated January 2012. Petrographic Examination and Chemical Analysis of Concrete Core Specimens, dated January 2012. Concrete Compression and Reinforcing Steel Test Results, dated January 2012. Historic Property Survey Report, dated January 2012 Supplemental Historic Property Survey Report, dated January 2014

2-1.12 DISADVANTAGED BUSINESS ENTERPRISES

2-1.12A General

Under 49 CFR 26.13(b):

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

Take necessary and reasonable steps to ensure that DBEs have opportunity to participate in the Contract (49 CFR 26).

2-1.12B Disadvantaged Business Enterprises

2-1.12B(1) General

To ensure equal participation of DBEs groups provided in 49 CFR 26.5, the City's shows a goal for 13.0% DBEs.

Make work available to DBEs and select work parts consistent with available DBE subcontractors and suppliers.

Meet the DBE goal shown on the Notice Inviting Bids or demonstrate that you made adequate good faith efforts to meet this goal.

You are responsible to verify that at the bid opening date the DBE firm is certified as DBE by the CA Unified Certification Program.

All DBE participation will count towards the California Department of Transportation's federally mandated statewide overall DBE goal.

Credit for materials or supplies you purchase from DBEs counts toward the goal in the following manner:

1. 100 percent if the materials or supplies are obtained from a DBE manufacturer.
2. 60 percent if the materials or supplies are obtained from a DBE regular dealer.
3. Only fees, commissions, and charges for assistance in the procurement and delivery of materials or supplies, if they are obtained from a DBE that is neither a manufacturer nor regular dealer. 49 CFR 26.55 defines "manufacturer" and "regular dealer."

You receive credit toward the goal if you employ a DBE trucking company that performs a commercially useful function as defined in 49 CFR 26.55(d)(1)-(4), (6).

2-1.12B(2) DBE Commitment Submittal

Submit DBE information on the Local Agency - DBE - Commitment form (DBE commitment form) included in the Contract Documents.

If the DBE commitment form is not submitted with the bid, all bidders must complete and submit the form to the City. The DBE commitment form must be received by the City no later than 4:00 p.m. on the 4th business day after bid opening.

Submit written confirmation from each DBE shown on the form stating that it will be participating in the Contract. Include confirmation with the DBE commitment form. A copy of a DBE's quote will serve as written confirmation that the DBE will be participating in the Contract.

If you do not submit the DBE commitment form by the specified time, your bid is **non-responsive**.

2-1.12B(3) Good Faith Efforts Submittal

If you have not met the DBE goal, complete and submit the Good Faith Efforts Documentation form with the bid showing that you made adequate good faith efforts to meet the goal. Only good faith efforts directed toward obtaining participation by DBEs are considered. If good faith efforts documentation is not submitted with the bid, it must be received by the City no later than 4:00 p.m. on the 4th business day after bid opening.

If your DBE commitment form shows that you have met the DBE goal or if you are required to submit the DBE commitment form, you must submit good faith efforts documentation within the specified time to protect your eligibility for award of the contract in the event the City finds that the DBE goal has not been met. Good faith efforts documentation must include the following information and supporting documents, as necessary:

1. Items of work you have made available to DBE firms. Identify those items of work you might otherwise perform with your own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar value and percentage of the total bid. You are responsible to demonstrate that sufficient work to meet the goal was made available to DBE firms.
2. Names of certified DBEs and dates on which they were solicited to bid on the project. Include the items of work offered. Describe the methods used for following up initial solicitations to determine with certainty whether the DBEs were interested and include the dates of the follow-up. Attach supporting documents such as copies of letters, memos, facsimiles sent, telephone logs, telephone billing statements, and other evidence of solicitation. You are reminded to solicit certified DBEs through all reasonable and available means and provide enough time to allow DBEs to respond.
3. Name of selected firm and its status as a DBE for each item of work made available. Include name, address, and telephone number of each DBE that provided a quote and its price quote. If the firm selected for the item is not a DBE, provide the reasons for the selection.
4. Name and date of each publication in which you requested DBE participation for the project. Attach copies of the published advertisements.
5. Names of agencies and dates on which they were contacted to provide assistance in contacting, recruiting, and using DBE firms. If the agencies were contacted in writing, provide copies of supporting documents.
6. List of efforts made to provide interested DBEs with adequate information about the plans, specifications, and requirements of the contract to assist them in responding to a solicitation. If you have provided information, identify the name of the DBE assisted, the nature of the information provided, and date of contact. Provide copies of supporting documents, as appropriate.
7. List of efforts made to assist interested DBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, and materials excluding supplies and equipment that the DBE subcontractor purchases or leases from the prime contractor or its affiliate. If such assistance is provided by you, identify the name of the DBE assisted, nature of the assistance offered, and date assistance was offered. Provide copies of supporting documents, as appropriate.
8. Any additional data to support demonstration of good faith efforts.

The City may consider DBE commitments of the 2nd and 3rd bidders in determining whether the low bidder made good faith efforts to meet the DBE goal.

3 CONTRACT AWARD AND EXECUTION

3-1.01 GENERAL

Section 3 includes specifications related to contract award and execution.

The bidder's attention is directed to the provisions in Section 3, "Contract Award and Execution," of the Standard Specifications and these special provisions for the requirements and conditions concerning award and execution of contract.

Bid protests are to be delivered to the following address:

THE CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

The award of the contract, if it be awarded, will be to the lowest responsible bidder whose bid complies with all the requirements prescribed.

The contract shall be executed by the successful bidder and shall be returned together with the contract bonds, to the Agency so that it is received within 10 days, not including Saturdays, Sundays and legal holidays, after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the proposal guaranty. The executed contract documents shall be delivered to the following address:

THE CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

3-1.02 DATA UNIVERSAL NUMBERING SYSTEM (D-U-N-S) NUMBER

For the purpose of complying with the American Recovery and Reinvestment Act of 2009, the successful bidder must provide the City of San Diego a D-U-N-S number.

Complete and sign the Data Universal Numbering System (D-U-N-S) Number form included in the contract documents. This form must be submitted with the executed contract.

If your company does not have a D-U-N-S number, you can obtain one by contacting Dun & Bradstreet at: <http://dnb.com/us/>

If you fail to submit this information with the executed contract, the City will not approve the contract.

3-1.06 CONTRACTOR LICENSE

For a federal-aid contract, the Contractor must be properly license as a contractor from contract award through Contract acceptance (Pub Cont Code § 10164).

For a non-federal-aid contract:

1. The Contractor must be properly licensed as a contractor from bid opening through Contract acceptance (Bus & Prof Code § 7028.15)
2. Joint venture bidders must obtain a joint venture license before contract award (Bus & Prof Code § 7029.1)

3-1.12 CALTRANS BIDDER - DBE INFORMATION FORM

Complete and sign the Local Agency - DBE Information form included in the contract documents regardless of whether no DBE participation is reported.

Provide written confirmation from each DBE that the DBE is participating in the Contract. A copy of a DBE's quote serves as written confirmation. If a DBE is participating as a joint venture partner, the City encourages you to submit a copy of the joint venture agreement.

3-1.13 FORM FHWA-1273

For a federal-aid contract, form FHWA-1273 is included with the Contract form in the documents sent to the successful bidder for execution. Comply with its provisions. Interpret the training and promotion section as specified in section 7-1.11A.

5 CONTROL OF WORK

5-1.01 GENERAL

Section 5 includes specifications regarding the Contract parties' relations and Contract acceptance.

The bidder's attention is directed to the provisions in Section 5, "Control of Work," of the Standard Specifications and these special provisions for the requirements and conditions concerning control of work.

5-1.04A PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS

A prime contractor or subcontractor shall pay any subcontractor not later than 7 days of receipt of each progress payment in accordance with the provision in Section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The 7 days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of Section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanction and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

5-1.04B PROMPT PAYMENT OF FUNDS WITHHELD TO SUBCONTRACTORS

The agency shall hold retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the agency, of the contract work, and pay retainage to the prime contractor based on these acceptances. The prime contractor, or subcontractor, shall return all monies withheld in retention from a subcontractor within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the agency. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of this provision shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

5-1.04C SUBCONTRACTING

No subcontract releases the Contractor from the contract or relieves the Contractor of their responsibility for a subcontractor's work.

If the Contractor violates Pub Cont Code § 4100 et seq., the City of San Diego may exercise the remedies provided under Pub Cont Code § 4110.

The City of San Diego may refer the violation to the Contractors State License Board as provided under Pub Cont Code § 4111.

The Contractor shall perform work equaling at least 30 percent of the value of the original total bid with the Contractor's own employees and equipment, owned or rented, with or without operators.

Each subcontract must comply with the contract.

Each subcontractor must have an active and valid State contractor's license with a classification appropriate for the work to be performed (Bus & Prof Code, § 7000 et seq.).

Submit copies of subcontracts upon request by the Engineer.

Before subcontracted work starts, submit a Subcontracting Request form.

Do not use a debarred contractor; a current list of debarred contractors is available at the Department of Industrial Relations web site at: <http://www.dir.ca.gov/dlse/debar.html>

Upon request by the Engineer, immediately remove and not again use a subcontractor who fails to prosecute the work satisfactorily.

Each subcontract and any lower-tier subcontract that may in turn be made shall include the "Required Contract Provisions Federal-Aid Construction Contracts" in Section 7 of these special provisions. Noncompliance shall be corrected. Payment for subcontracted work involved will be withheld from progress payments due or to become due, until correction is made. Failure to comply may result in termination of the contract.

5-1.05 PAYMENTS. -- Attention is directed to Section 9-1.16, "PROGRESS PAYMENTS," and 9-1.17, "PAYMENT AFTER CONTRACT ACCEPTANCE," of the Standard Specifications and these special provisions.

For the purpose of making progress payments pursuant to Section 9-1.16,, "PROGRESS PAYMENTS," of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of the contract item of work, which will be recognized for progress payment purposes.

Clearing and Grubbing \$80,000 _____

After acceptance of the contract pursuant to the provisions in Section 5-1.46, "FINAL INSPECTION AND CONTRACT ACCEPTANCE," of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes hereinabove listed for the item, will be included for payment in the first estimate made after acceptance of the contract.

With the exception of items listed in Section 9-1.16,, no partial payment will be made for any materials on hand which are furnished but not incorporated in the work.

5-1.15 STATISTICAL TESTING - Requirements for statistical testing will not apply to the Work.

5-1.13B Disadvantaged Business Enterprises

5-1.13B(1) General

Use each DBE subcontractor as listed on the Subcontractor List form and the Local Agency - DBE Information form unless you receive authorization for a substitution.

Notify the Engineer of any changes to your anticipated DBE participation. Submit this notification before starting the affected work.

Maintain records including:

1. Name and business address of each 1st-tier subcontractor
2. Name and business address of each DBE subcontractor, DBE vendor, and DBE trucking company, regardless of tier
3. Date of payment and total amount paid to each business

If you are a DBE contractor, include the date of work performed by your own forces and the corresponding value of the work.

Before the 15th day of each month, submit a Monthly DBE Trucking Verification form.

If a DBE subcontractor is decertified before completing subcontracted work, the subcontractor must notify you in writing of the decertification date. If a subcontractor becomes a certified DBE before completing subcontracted work, the subcontractor must notify you in writing of the certification date. Submit the notifications. On work completion, complete a Disadvantaged Business Enterprises (DBE) Certification Status Change form. Submit the form within 90 days of Contract acceptance.

Upon work completion, complete a Final Report – Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subcontractors form. Submit it within 90 days of Contract acceptance. The City withholds \$10,000 until the form is submitted. The City releases the withhold upon submission of the completed form.

5-1.13B(2) Performance of Disadvantaged Business Enterprises

DBEs must perform work or supply materials as listed in the Local Agency - DBE - Commitment form.

Do not terminate or substitute a listed DBE listed for convenience and perform the work with your own forces or obtain materials from other sources without written authorization from the City.

The City authorizes a request to use other forces or sources of materials if it shows any of the following justifications:

1. Listed DBE fails or refuses to execute a written contract based on the plans and specifications for the project.
2. You stipulated that a bond is a condition of executing the subcontract and the listed DBE fails to meet your bond requirements.
3. Work requires a contractors license and the listed DBE does not have a valid license under Contractors License Law.
4. Listed DBE fails or refuses to perform the work or furnish the listed materials.
5. Listed DBE's work is unsatisfactory and not in compliance with the Contract.
6. Listed DBE is ineligible to work on the project because of suspension or debarment.
7. Listed DBE becomes bankrupt or insolvent.
8. Listed DBE voluntarily withdraws with written notice from the Contract.
9. Listed DBE is ineligible to receive credit for the type of work required.
10. Listed DBE owner dies or becomes disabled resulting in the inability to perform the work on the Contract.
11. City determines other documented good cause.

Notify the original DBE of your intent to use other forces or material sources and provide the reasons. Provide the DBE with 5 Working days to respond to your notice and advise you and the City of San Diego of the reasons why the use of other forces or sources of materials should not occur. Your request to use other forces or material sources must include:

1. 1 or more of the reasons listed in the preceding paragraph
2. Notices from you to the DBE regarding the request

3. Notices from the DBE to you regarding the request

If a listed DBE is terminated or substituted, you must make good faith efforts to find another DBE to substitute for the original DBE. The substitute DBE must perform at least the same amount of work as the original DBE under the Contract to the extent needed to meet the DBE goal.

The substitute DBE must be certified as a DBE at the time of request for substitution.

Unless the City authorizes (1) a request to use other forces or sources of materials or (2) a good faith effort for a substitution of a terminated DBE, the City does not pay for work listed on the Local Agency - DBE - Commitment form unless it is performed or supplied by the listed DBE or an authorized substitute.

Add to section 5-1.20A:

During the progress of the work under this Contract, work under the following contracts may be in progress at or near the job site of this Contract:

Coincident or Adjacent Contracts

Contract no.	County–Route–Post Mile	Location	Type of work
K-15-5716-DBB-3	Extending from approximately Stephens Street at Lewis Street to Polk Avenua at Idaho Street	Along University Avenue (among others)	Replacement of existing water line

Replace section 5-1.26 with:

The Engineer places stakes and marks under Chapter 12, "Construction Surveys," of the Department's Surveys Manual.

Submit your request for Department-furnished stakes:

1. Once staking area is ready for stakes
2. On a Request for Construction Staking form

Establish priorities for stakes and note priorities on the After your submittal, the Department starts staking within 2 business days.

Preserve stakes and marks placed by the Engineer. If the stakes or marks are destroyed, the Engineer replaces them at the Engineer’s earliest convenience and deducts the cost.

Add to section 5-1.36D:

The utility owner will relocate a utility shown in the following table before the corresponding date shown:

Installation of the utilities shown in the following table requires coordination with your activities. Make arrangements with the utility company through the Engineer and submit a schedule to the Engineer:

1. Verified by the utility company

- 2. Allowing at least the time shown for the utility owner to complete its work

Utility Relocation and Contractor-Arranged Time for the Relocation

Utility	Location and Work by Owner	Owner	N/W
Communication MH - Pac Bell MH #120	12+11, parallel to CL University Ave., 13' north. Adjust to grade.	AT&T	30/5
Communication MH - Pac Bell MH #123	15+92, parallel to CL University Ave., 13' north. Adjust to grade.	AT&T	30/5
Contact - AT&T	George Tuttle (858) 886-2866, gt3454@att.com		
Contact - SDG&E (Sempra)	Sergio Granados (619) 454-7748 SGranadosOrtiz@semprautilities.com		

N. Notification days. Minimum number of working days written notice the Engineer provides the owner that the site will be ready for utility work.

W. Working days. Number of working days provided to the utility company to complete the listed utility work.

As part of this contract the contractor must be responsible for the replacement of any disturbed utility lines that are not covered in notice to owners.

The public utility, where they are the owner, shall have the sole discretion to perform repairs or relocation work, or permit the Contractor to do such repairs or relocation work at a reasonable price.

An existing utility which is damaged as a result of the Contractor's operations must also be removed or replaced at the Contractor's expense. You must contact and coordinate with the utility owner for the relocation and/or replacement of their facility within the work area.

The lump sum price for Utility Coordination must include full compensation for relocation, coordination, and all costs associated with completing this contract and no additional compensation will be allowed therefor.

Add to section 5-1.36:

5-1.36E Survey and Monitoring of Existing Adjacent Property

5-1.36E(1) General

5-1.36E(1)(a) Summary

Section 5-3.36E includes specifications for survey and monitoring of existing adjacent properties.

Perform photo and video survey and crack monitoring of existing adjacent properties including buildings and other improvements that may be damaged by construction activities.

Construct photo and video survey and crack monitoring at the adjacent properties listed in the table below, or as directed.

APN	Address
445-660-35	3911 Park Boulevard
445-660-39-1 through 445-660-39-8	1810, 1820, 1830, 1840 University Avenue, 3904, 3908, 3912, 3916 Georgia Street
453-011-12	3907 Georgia Street
445-671-13	1926 University Avenue
445-671-14	1936 University Avenue
445-671-15	1942 University Avenue
445-671-16	3904 Florida Street
452-201-01	3843 Park Boulevard
452-201-22	1825 University Avenue
452-201-21	3848 Georgia Street
453-011-01	3844 Georgia Street
453-011-02	1919 University Avenue
453-011-16	University Avenue

5-1.36E(1)(b) Definitions

Significant impact work: Work including demolition activity, soil nail drilling/installation, ground anchor drilling/installation, excavation, embankment, compaction, or other activity with potential to damage existing adjacent properties directly or through transmitted vibrations.

5-1.36E(1)(c) Submittals

5-1.36E(1)(c)(i) Pre-Construction Photo and Video Survey and Crack Monitoring Documentation

Submit pre-construction photo and video survey and crack monitoring documentation before commencement of any significant impact work as defined above. The Engineer's review time to review the submittal for adequacy is 5 Working days. Do not perform any significant impact work until the Engineer approves the pre-construction survey records.

Submit a list of digital photo equipment proposed for use, including digital cameras, photographic software, photo printers, and photo quality glossy heavyweight paper. Include actual recent samples of digital photos taken with the proposed camera and printed with the proposed printer.

Notify the Engineer 48 hours before starting photo and video survey and crack monitoring work.

5-1.36E(1)(c)(ii) Post-Construction Photo and Video Survey and Crack Monitoring Documentation

Submit post-construction photo and video survey and crack monitoring documentation within 25 Working days after the impact work has been completed adjacent to each of the specified properties.

Inform the Engineer immediately in writing of any damage to the specified properties.

Submit, in triplicate, the photographs, video recordings, and reports of all observations. Your authorized representatives and the representative of the City must sign every document.

Provide all records, documents, photos, video recordings, and observations. The Engineer's review time to review the submittal for adequacy is 5 Working days.

The above referenced records, video recordings, and photographs are intended for use as indisputable evidence in ascertaining the extent of any damage which may occur as a result of your operations. These records will be used to determine any damage from your activities during the work.

5-1.36E(1)(d) Quality Control and Assurance

5-1.36E(1)(d)(i) Photo Survey

For photo survey document, the following requirements apply:

1. Use an undamaged digital camera with a clean lens capable of capturing a minimum resolution of 3264 x 2448 pixels or eight megapixels.
2. Digital photo prints must be on either dye sublimation printer capable of color fusion and continuous tone, a color laser printer capable of printing 1200 x 1200 dots per inch (dpi), or a professional graphics color inkjet printer capable of printing 1440 x 720 dpi and using six separate color reservoirs.
3. Digital prints must utilize photo quality glossy heavy weight paper (as defined by the printer manufacturer and as approved by the Engineer).
4. Digital prints must be printed at the highest print mode or print quality available to the approved printer.

5. Digital prints must include the path name, folder and subfolder names, and file name of the picture on the CD-ROM. The CD-ROM must be written in ISO 9660 format with Joliet extensions.
6. Digital photos must be saved in the JPEG file format.
7. Image quality option of the JPEG file must be set to high.
8. JPEG files must be stored in separate folders based on photo location.
9. CD-ROM must be submitted to the Engineer as part of the photo survey submittal.
10. Every digital photo image in the photo survey submittal must be authenticated in writing that it has not been modified using photo editing computer software. Said letter must be included with every photo survey submittal.

5-1.36E(1)(d)(ii) Video Survey

For video survey document, the following requirements apply:

1. Narrate concurrently with video recording the location, orientation, time and date of the scene. The narration may be supplemented by onscreen text either generated by the camera or by other methods approved by the Engineer.
2. Conduct video survey with an undamaged video camera with a clean lens using premium grade DVD disk and record in the Standard Play (SP) mode or use digital video in MPEG-2 format with minimum resolution of 1440 x 1080 pixels at SP mode.
3. Record each property on a single video recording or disk.
4. Submit original, unedited video recording.
5. Copies of the video disk must be professionally made and must not incur signal degradation during copying.
6. DVD-ROM must be written in ISO 9660 format with Joliet extensions.
7. Digital video saved on DVD-ROM must be saved in the MPEG-2 file format. Include the path name (folder and subfolder names) and file name of the video file.
8. MPEG-2 files must be stored in separate folders based on video location.
9. DVD-ROM must be submitted to the Engineer as part of the video survey submittal.

5-1.36E(1)(d)(iii) Crack Monitoring

For crack monitoring, the following requirements apply:

1. Use a calibrated crack monitoring device approved by the Engineer. The crack gauge must be capable of measuring cracks to the nearest 0.05 inch.

2. Identify the location of the crack gauges in the pre-construction survey report.
3. Install gauge concurrent with the pre-construction photo survey.
4. Monitor cracks weekly during the pre-construction photo survey and daily throughout the duration of any impact work that has a potential to cause damage to the existing properties.
5. Record crack gauge measurements at the same time each day in an effort to eliminate deviations in crack magnitude due to heat fluctuations.
6. Provide a report detailing such readings to the Engineer on a weekly basis.

5-1.36E(2) Materials

Not used.

5-1.36E(3) Construction**5-1.36E(3)(a) General**

Perform pre-construction survey and monitoring at least 20 Working days before beginning any significant impact work. Perform additional survey and monitoring as the work progresses and as directed.

Perform post construction survey and monitoring on the same properties within 10 Working days after the completion of any impact work, including excavation, demolition activity, soil nail drilling/installation, ground anchor drilling/installation, or other significant impact work that has a potential to cause damage to existing properties.

5-1.36E(3)(b) Photo and Video Survey

Photo and video survey the condition of the listed properties, including any and all deficiencies in the properties such as cracks, settlement, leakage, distress and the like. The photo survey must document the condition of the foundation, walls, ceiling, roof, improvements and other building elements on the interiors and exteriors of the listed properties.

5-1.36E(3)(c) Crack Monitoring

Perform crack monitoring on all existing cracks in each of the properties included in this survey. Perform crack monitoring concurrent with the photo survey.

5-1.36E(4) PAYMENT

Payment for this work is covered on a lump sum basis as Surveying and Monitoring of Existing Non Highway Facilities.

Delete section 5-1.43E

Add to section 5-1.37B(1):

The retaining walls, in their current state, have a substandard capacity. Additional surcharge loading on the walls must be limited. Contractor is to verify stability of the abutments and walls based on equipment used. Loading calculations must be signed by an engineer registered in the state of California. Submit calculations and work plan for to the Engineer for review.

6 CONTROL OF MATERIALS**6-1 GENERAL****6-1.01 GENERAL**

Section 6 includes specifications related to control of materials.

6-2 MATERIAL SOURCE**6-2.01 GENERAL**

Material incorporated into the work must be new.

6-2.02 MATERIAL SOURCE

Before the preconstruction conference, submit material source information on a Notice of Materials to Be Used form.

6-2.05 BUY AMERICA**6-2.05A General**

Reserved

6-2.05C Steel and Iron Materials (23 CFR 635.410)

Section 6-2.05C applies to a federal-aid contract.

Furnish steel and iron materials to be incorporated into the work with certificates of compliance. Steel and iron materials must be produced in the U.S. except:

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

Production includes:

1. Processing steel and iron materials, including smelting or other processes that alter the physical form or shape (such as rolling, extruding, machining, bending, grinding, and drilling) or chemical composition

2. Coating application, including epoxy coating, galvanizing, and painting, that protects or enhances the value of steel and iron materials

Furnish steel and iron materials to be incorporated into the work with certificates of compliance and certified mill test reports. Mill test reports must indicate where the steel and iron were melted and manufactured.

All melting and manufacturing processes for these materials, including an application of a coating, must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

7-1.01 GENERAL

Section 7 includes specifications regarding your:

1. Compliance with laws
2. Responsibilities for public safety and convenience
3. Responsibilities for indemnification, insurance, and liability

7-1.02 LAWS

7-1.02A General

Comply with laws, regulations, orders, and decrees applicable to the project. Indemnify and defend the State against any claim or liability arising from the violation of a law, regulation, order, or decree by you or your employees. Immediately report to the Engineer a discrepancy or inconsistency between the Contract and a law, regulation, order, or decree.

If the City incurs any fines or penalties because of your failure to comply with a law, regulation, order, or decree, the City deducts the amount of the fine or penalty.

Immediately notify the Engineer if a regulatory agency requests access to the job site or to records. Submit a list of documents provided to the agency and issued enforcement actions.

7-1.02B U.S. Fair Labor Standards Act

Comply with 29 USC § 201 et seq.

7-1.02D–7-1.02H Reserved

7-1.02I Government Code

7-1.02I(1) General

Reserved

7-1.02I(2) Nondiscrimination

Under 2 CA Code Regs §§ 8107 and 8203:

1. During the performance of this contract, contractor and its subcontractors shall not unlawfully discriminate against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, medical condition, marital status, age

(over 40) or sex. Contractors and subcontractors shall insure that the evaluation and treatment of their employees and applicants for employment are free of such discrimination. Contractors and subcontractors shall comply with the provisions of the Fair Employment and Housing Act (Gov. Code, Section 12900 et seq.) and the applicable regulations promulgated thereunder (Cal. Admin. Code, Tit. 2, Section 7285.0 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, Section 12990, set forth in Chapter 5 of Division 4 of Title 2 of the California Administrative Code are incorporated into this contract by reference and made a part hereof as if set forth in full. Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

2. This Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

STANDARD CALIFORNIA NONDISCRIMINATION CONSTRUCTION CONTRACT SPECIFICATIONS (GOV. CODE, SECTION 12990)

These specifications are applicable to all state contractors and subcontractors having a construction contract or subcontract of \$5,000, or more.

1. As used in the specifications:
 - a. "Administrator" means Administrator, Office of Compliance Programs, California Department of Fair Employment and Housing, or any person to whom the Administrator delegates authority;
 - b. "Minority" includes:
 - (i) Black (all persons having primary origins in any of the black racial groups of Africa, but not of Hispanic origin);
 - (ii) Hispanic (all persons of primary culture or origin in Mexico, Puerto Rico, Cuba, Central or South America or other Spanish derived culture or origin regardless of race);
 - (iii) Asian / Pacific Islander (all persons having primary origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands); and
 - (iv) American Indian / Alaskan Native (all persons having primary origins in any of the original peoples of North America and who maintain culture identification through tribal affiliation or community recognition).
2. Whenever the contractor or any subcontractor subcontracts a portion of the work, it shall physically include in each subcontract of \$5,000 or more the nondiscrimination clause in this contract directly or through incorporation by reference. Any subcontract for work involving a construction trade shall also include the Standard California Construction Contract Specifications, either directly or through incorporation by reference.
3. The contractor shall implement the specific nondiscrimination standards provided in

paragraph 6(a) through (e) of these specifications.

4. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the contractor's obligations under these specifications, Government Code, Section 12990, or the regulations promulgated pursuant thereto.
5. In order for the nonworking training hours of apprentices and trainees to be counted, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor or the California Department of Industrial Relations.
6. The contractor shall take specific actions to implement its nondiscrimination program. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor must be able to demonstrate fully its efforts under Steps a. through e. below:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and at all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign two or more women to each construction project. The contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the contractor's obligations to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Provide written notification within seven days to the director of DFEH when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - c. Disseminate the Contractor's equal employment opportunity policy by providing notice of the policy to unions and training, recruitment and outreach programs and requesting their cooperation in assisting the Contractor to meet its obligations; and by posting the company policy on bulletin boards accessible to all employees at each location where construction work is performed.
 - d. Ensure all personnel making management and employment decisions regarding hiring, assignment, layoff, termination, conditions of work, training, rates of pay or other employment decisions, including all supervisory personnel, superintendents, general foremen, on-site foremen, etc., are aware of the Contractor's equal employment opportunity policy and obligations, and discharge their responsibilities accordingly.
 - e. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the equal employment opportunity policy and the Contractor's obligations under these specifications are being carried out.

7. Contractors are encouraged to participate in voluntary associations which assist in fulfilling their equal employment opportunity obligations. The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's.
8. The Contractor is required to provide equal employment opportunity for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Fair Employment and Housing Act (Gov. Code, Section 12990 et seq.) if a particular group is employed in a substantially disparate manner.
9. Establishment and implementation of a bona fide affirmative action plan pursuant to Section 8104 (b) of this Chapter shall create a rebuttal presumption that a contractor is in compliance with the requirements of Section 12990 of the Government Code and its implementing regulations.
10. The Contractor shall not use the nondiscrimination standards to discriminate against any person because of race, color, religion, sex, national origin, ancestry, physical handicap, medical condition, marital status or age over 40.
11. The Contractor shall not enter into any subcontract with any person or firm decertified from state contracts pursuant to Government Code Section 12990.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and the nondiscrimination clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Government Code Section 12990 and its implementing regulations by the awarding agency. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Government Code Section 12990.
13. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company equal employment opportunity policy is being carried out, to submit reports relating to the provisions hereof as may be required by OCP and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status, (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in any easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

7-1.02K(4) Apprentices

Comply with the apprentice to journeyman ratio requirements (Labor Code § 1777.5(g)).

Comply with the training contribution requirements (Labor Code § 1777.5(m)(1)).

For answers to questions, contact the Division of Apprenticeship Standards before starting work.

Replace section 7-1.02K(6)(e) with:

7-1.02K(6)(e) Scaffolding

7-1.02K(6)(e)(i) General

Section 7-1.02K(6)(e) applies to scaffolding constructed (1) over traffic, (2) on or suspended from a bridge, or (3) within a distance equal to the scaffolding height plus 6 feet from the edge of a traveled way open to traffic, except section 7-1.02K(6)(e) does not apply to scaffolding at sound walls, retaining walls, and buildings.

Submit 6 copies of shop drawings and 1 copy of calculations.

The shop drawings and calculations must be sealed and signed by:

1. Engineer who is registered as a civil engineer
2. Independent reviewer who is:
 - 2.1. Registered as a civil engineer in the State
 - 2.2. Not employed by the same entity that prepared the drawings

Include in the submittal:

1. Descriptions, calculations, and values for loads anticipated during erection, use, and removal of the scaffolding.
2. Methods and equipment for erecting, moving, and removing scaffolding.
3. Design details, including bolt layouts, welding details, and connections to existing structures.
4. Stress sheets, including a summary of computed stresses in the scaffolding and in the connections between the scaffolding and existing structures. The computed stresses must include the effects of erection, movement, and removal of the scaffolding.

If manufactured scaffolding is used, the manufacturer's name, address, and telephone number must be shown on the shop drawings.

Allow 20 Working days for the City of San Diego's review.

Welding must comply with AWS D1.1 for steel and AWS D1.2 for aluminum.

7-1.02K(6)(e)(ii) Bridge Scaffolding

Section 7-1.02K(6)(e)(ii) applies to scaffolding constructed on or suspended from a bridge. Scaffolding must not be supported by or suspended from the bridge.

Contractor is to have an active S-4 (Scaffold/Falsework/Vertical Shoring) permit from CAL/OSHA DOSH (Title 8, California Code of Regulations chapter 4, sub-chapter 4)

7-1.11 FEDERAL LAWS FOR FEDERAL-AID CONTRACTS

7-1.11A General

A copy of form FHWA-1273 is included in section 7-1.11B. The training and promotion section of section II refers to training provisions as if they were included in the special provisions. The City of

San Diego specifies the provisions in section 7-1.11D of the Standard Specifications. If a number of trainees or apprentices is required, the City of San Diego shows the number on the Notice Inviting Bids. Interpret each FHWA-1273 clause shown in the following table as having the same meaning as the corresponding Department clause:

FHWA-1273 Nondiscrimination Clauses

FHWA-1273 section	FHWA-1273 clause	Department clause
Training and Promotion	In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.	If section 7-1.11D applies, section 7-1.11D supersedes this subparagraph.
Records and Reports	If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.	If the Contract requires on-the-job training, collect and report training data.

7-1.11B FHWA-1273

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (Included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

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

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

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

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

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

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

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

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

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

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

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

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

2. Withholding

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

3. Payrolls and basic records

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

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

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

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

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

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

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

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

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

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

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

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

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

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

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

10. Certification of eligibility.

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

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

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

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

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

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

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

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

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-L.L.L., "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

7-1.11C Female and Minority Goals

To comply with section II, "Nondiscrimination," of "Required Contract Provisions Federal-Aid Construction Contracts," the City of San Diego is including in section 7-1.11C female and minority utilization goals for federal-aid construction contracts and subcontracts that exceed \$10,000.

The nationwide goal for female utilization is 6.9 percent.

The goals for minority utilization [45 Fed Reg 65984 (10/3/1980)] are as shown in the following table:

Minority Utilization Goals

Economic area		Goal (Percent)
174	Redding CA: Non-SMSA Counties: CA Lassen; CA Modoc; CA Plumas; CA Shasta; CA Siskiyou; CA Tehama	6.8
175	Eureka, CA Non-SMSA Counties: CA Del Norte; CA Humboldt; CA Trinity	6.6
176	San Francisco-Oakland-San Jose, CA: SMSA Counties: 7120 Salinas-Seaside-Monterey, CA CA Monterey 7360 San Francisco-Oakland CA Alameda; CA Contra Costa; CA Marin; CA San Francisco; CA San Mateo 7400 San Jose, CA CA Santa Clara, CA 7485 Santa Cruz, CA CA Santa Cruz 7500 Santa Rosa CA Sonoma 8720 Vallejo-Fairfield-Napa, CA CA Napa; CA Solano Non-SMSA Counties: CA Lake; CA Mendocino; CA San Benito	28.9 25.6 19.6 14.9 9.1 17.1 23.2

Economic area		Goal (Percent)
177	Sacramento, CA: SMSA Counties: 6920 Sacramento, CA CA Placer; CA Sacramento; CA Yolo	16.1
	Non-SMSA Counties CA Butte; CA Colusa; CA El Dorado; CA Glenn; CA Nevada; CA Sierra; CA Sutter; CA Yuba	14.3
178	Stockton-Modesto, CA: SMSA Counties: 5170 Modesto, CA CA Stanislaus	12.3
	8120 Stockton, CA CA San Joaquin	24.3
	Non-SMSA Counties CA Alpine; CA Amador; CA Calaveras; CA Mariposa; CA Merced; CA Tuolumne	19.8
179	Fresno-Bakersfield, CA SMSA Counties: 0680 Bakersfield, CA CA Kern	19.1
	2840 Fresno, CA CA Fresno	26.1
	Non-SMSA Counties: CA Kings; CA Madera; CA Tulare	23.6
180	Los Angeles, CA: SMSA Counties: 0360 Anaheim-Santa Ana-Garden Grove, CA CA Orange	11.9
	4480 Los Angeles-Long Beach, CA CA Los Angeles	28.3
	6000 Oxnard-Simi Valley-Ventura, CA CA Ventura	21.5
	6780 Riverside-San Bernardino-Ontario, CA CA Riverside; CA San Bernardino	19.0
	7480 Santa Barbara-Santa Maria-Lompoc, CA CA Santa Barbara	19.7
	Non-SMSA Counties CA Inyo; CA Mono; CA San Luis Obispo	24.6

Economic area		Goal (Percent)
181	San Diego, CA: SMSA Counties 7320 San Diego, CA CA San Diego	16.9
	Non-SMSA Counties CA Imperial	18.2

For each July during which work is performed under the Contract, you and each non-material-supplier subcontractor with a subcontract of \$10,000 or more must complete Form FHWA PR-1391 (Appendix C to 23 CFR 230). Submit the forms by August 15.

7-1.11D Training

For the Federal training program, the number of trainees or apprentices is 10.

As part of your equal opportunity affirmative action program, provide on-the-job training to develop full journeymen in the types of trades or job classifications involved.

You have primary responsibility for meeting this training requirement.

If you subcontract a Contract part, determine how many trainees or apprentices are to be trained by the subcontractor.

Where feasible, 25 percent of apprentices or trainees in each occupation must be in their 1st year of apprenticeship or training.

Distribute the number of apprentices or trainees among the work classifications on the basis of your needs and the availability of journeymen in the various classifications within a reasonable recruitment area.

Before starting work, submit:

1. Number of apprentices or trainees to be trained for each classification
2. Training program to be used
3. Training starting date for each classification

Obtain the City of San Diego's approval for this submitted information before you start work. The City of San Diego credits you for each apprentice or trainee you employ on the work who is currently enrolled or becomes enrolled in an approved program.

The primary objective of section 7-1.11D is to train and upgrade minorities and women toward journeymen status. Make every effort to enroll minority and women apprentices or trainees, such as conducting systematic and direct recruitment through public and private sources likely to yield minority and women apprentices or trainees, to the extent they are available within a reasonable recruitment area. Show that you have made the efforts. In making these efforts, do not discriminate against any applicant for training.

Do not employ as an apprentice or trainee an employee:

1. In any classification in which the employee has successfully completed a training course leading to journeyman status or in which the employee has been employed as a journeyman
2. Who is not registered in a program approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training

Ask the employee if the employee has successfully completed a training course leading to journeyman status or has been employed as a journeyman. Your records must show the employee's answers to the questions.

In your training program, establish the minimum length and training type for each classification. The City of San Diego and FHWA approves a program if one of the following is met:

1. It is calculated to:
 - 1.1. Meet your equal employment opportunity responsibilities.
 - 1.2. Qualify the average apprentice or trainee for journeyman status in the classification involved by the end of the training period.
2. It is registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training and it is administered in a way consistent with the equal employment responsibilities of federal-aid highway construction contracts.

Obtain City of San Diego approval for your training program before you start work involving the classification covered by the program.

Provide training in the construction crafts, not in clerk-typist or secretarial-type positions. Training is allowed in lower level management positions such as office engineers, estimators, and timekeepers if the training is oriented toward construction applications. Training is allowed in the laborer classification if significant and meaningful training is provided and approved by the FHWA division office. Off-site training is allowed if the training is an integral part of an approved training program and does not make up a significant part of the overall training.

The City of San Diego reimburses you 80 cents per hour of training given an employee on this Contract under an approved training program:

1. For on-site training
2. For off-site training if the apprentice or trainee is currently employed under a federal-aid contract and you do at least one of the following:
 - 2.1. Contribute to the cost of the training
 - 2.2. Provide the instruction to the apprentice or trainee
 - 2.3. Pay the apprentice's or trainee's wages during the off-site training period

You may start job site activities before the 55th day after Contract approval if you:

1. Obtain specified authorization or acceptance for each submittal before the 55th day
2. Receive authorization to start

Submit a notice 72 hours before starting job site activities.

8-1.10 DC-CEM-1201 DAMAGES

8-1.10A General

The City of San Diego specifies liquidated damages (Pub Cont Code § 10226). Liquidated damages, if any, accrue starting on the 1st day after the expiration of the Working days through the day of Contract acceptance except as specified in sections 8-1.08B and 8-1.08C.

The City of San Diego withholds liquidated damages before the accrual date if the anticipated liquidated damages may exceed the value of the remaining work.

Liquidated damages for all work except plant establishment are as shown in the following table:

Liquidated Damages

Total bid		Liquidated damages per day
From over	To	
\$0	\$50,000	\$1,200
\$50,000	\$120,000	\$1,500
\$120,000	\$1,000,000	\$1,900
\$1,000,000	\$5,000,000	\$3,000
\$5,000,000	\$10,000,000	\$5,400
\$10,000,000	\$30,000,000	\$8,300
\$30,000,000	\$100,000,000	\$10,500
\$100,000,000	\$250,000,000	\$28,500

If all work except plant establishment is complete and the total number of Working days have expired, liquidated damages are \$950 per day.

3. If you comply with section 7-1.11D

Each apprentice or trainee must:

1. Start training on the project as soon as feasible after the start of work involving the apprentice's or trainee's craft
2. Remain on the project as long as training opportunities exist in the apprentice's or trainee's work classification or until the apprentice or trainee has completed the training program

Furnish the apprentice or trainee:

1. Copy of the program you will comply with in providing the training
2. Certification showing the type and length of training satisfactorily completed

Maintain records and submit reports documenting your performance under section 7-1.11D.

8 PROSECUTION AND PROGRESS

8-1.01 GENERAL

Section 8 includes specifications related to prosecuting the Contract and work progress.

Replace "Reserved" in section 8-1.04C with:

Section 8-1.04B does not apply.

Start job site activities within 55 days after receiving notice that the Contract has been approved by the City or the attorney appointed and authorized to represent the City of San Diego.

Do not start job site activities until the City of San Diego authorizes or accepts your submittal for:

1. CPM baseline and resource loaded schedule
2. WPCP
3. Notification of DRA or DRB nominee and disclosure statement

You may enter the job site only to measure controlling field dimensions and locate utilities.

Do not start other job site activities until all the submittals from the above list are authorized or accepted and the following information is received by the Engineer:

1. *Notice of Materials to Be Used form.*
2. Written statement from the vendor that the order for electrical material has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.

9 PAYMENT

Add to section 9-1.16C:

The following items are eligible for progress payment even if they are not incorporated into the work:

1. Headed bar reinforcement
2. Bar reinforcing steel (Bridge)
3. Bar reinforcing steel (Retaining Wall)
4. Ground anchors
5. Soil nails
6. Miscellaneous metal (bridge)
7. 2" Slotted drainage pipe
8. 3" Unslotted drainage pipe
9. Bridge and retaining wall drainage system

ORGANIZATION

Special provisions are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *Standard Specifications* as revised by any revised standard specification.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.

DIVISION II GENERAL CONSTRUCTION

10 GENERAL

Add to section 10-1.02:

Do not place the uppermost layer of new pavement until all underlying conduits and loop detectors are installed.

Before starting the traffic signal functional test at any location, all items of work related to signal control must be completed and all roadside signs, pavement delineation, and pavement markings must be in place at that location.

Unless shown on the plans, at the end of each working day if a difference in excess of 2 feet exists between the elevation of the existing pavement and the elevation of an excavation within 3 feet of the traveled way, place and compact material against the vertical cut adjacent to the traveled way. During the excavation operation, you may use native material for this purpose except once the placing of the structural section starts, structural material must be used. Place the material to the top of the existing pavement and taper at a slope of 4:1 (horizontal:vertical) or flatter to the bottom of the excavation. Do not use treated base for the taper.

12 TEMPORARY TRAFFIC CONTROL

Add to section 12-3.08C:

Stake Type K temporary railing to the ground under the bridge and extend out 20 feet minimum on both sides of the bridge.

Add to section 12-4.02A:

University Avenue frontage roads must remain open to vehicular traffic during construction

Add section 12-4.05J:

12-4.05J City Street Closures

Chart no. 1 Road Lane Requirements																									
Location: Georgia St.										Direction: NB/SB															
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Fri	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

C Street may be closed

N No work allowed

REMARKS: The number of through traffic lanes in each direction of travel is 1.

This chart to be used a maximum of (180) continuous calendar days.

Pedestrian access may be closed with street closure.

Chart no. 2a Road Lane Requirements																									
Location: University Ave												Direction: EB/WB													
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fri	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sat	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sun	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Legend:

1	Provide at least 1 city street lane open in direction of travel
C	Street may be closed

REMARKS: The number of through traffic lanes in each direction of travel is 2.

This chart to be used for typical lane closures on University Ave

Pedestrian Traffic may be detoured to frontage roads on either side of University Ave.

Chart no. 2b Road Lane Requirements																									
Location: University Ave										Direction: EB/WB															
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C
Fri	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sat	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sun	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Legend:

1	Provide at least 1 city street lane open in direction of travel
C	Street may be closed

REMARKS: The number of through traffic lanes in each direction of travel is 2.

This chart to be used for night-time closures of University Ave

This chart to be used a maximum of (42) calendar days.

Pedestrian Traffic may be detoured to frontage roads on either side of University Ave.

15 EXISTING FACILITIES**Add to section 15-1.01:**

The existing arch ribs are historic in nature and their preservation is a key component of the project. If you destroy or significantly damage a historic arch rib beyond repair, loss will be sustained to the historic value of the bridge, and it will be impracticable to ascertain and determine the actual value of the loss.

If you significantly damaged the arch rib(s) beyond repair during construction as determined by the Engineer, work will be halted pending a historical evaluation and determination to be performed by the City of San Diego in coordination with the State of California Department of Parks and Recreation Office of Historic Preservation. You are responsible for any delay or cost associated with significant arch rib damage you cause including costs for equipment, personnel, mobilization, demobilization, and liquidated damages. You must pay the cost to repair or replace the arch ribs due to significant damage caused by you without reimbursement from the City. You must pay the cost for the City to perform historical evaluation and determination, complete a new Historic Property Survey Report, and complete associated studies without reimbursement from the City. You must pay the cost for the City to develop engineered solution will be paid by you without reimbursement from the City.

Significant arch rib damage beyond repair caused by you is any one of the following due to deviation from the plans or special provisions: (1) arch rib damage beyond repair as determined by the engineer for not limiting arch displacements or loading per the special provisions; (2) damage to one of the nine arch rib hinge assemblies (steel shoes or adjacent steel ties) such that the assemblies or arch ribs are damaged beyond repair as determined by the engineer; (3) damage to the concrete core of one of the three arch ribs by loading, vibrating, cutting, or coring, such that the arch is damaged beyond repair as determined by the engineer; or (4) cutting of the existing longitudinal reinforcement in any of the arch ribs such that the rib cannot be repaired to its current capacity, as determined by the engineer.

Replace section 15-2.03A(2)(b) with:**15-2.03A(2)(b) City of San Diego Salvage/Storage Location**

Provide two additional fixture globes and one additional post for bridge lighting to the City of San Diego for future use. A minimum of 2 business days before hauling this salvage/storage material to the Department salvage storage location, notify:

1. Engineer
2. City of San Diego contact Derek Mack at telephone number (619) 527-8507

For the two globes and one additional post, the salvage/storage location is:
2781 Caminito Chollas
San Diego, CA 92105

Replace section 15-2.03A(4) with:

Payment for removal and salvage of existing street lighting	is included in the payment for Street Lighting	Electrical	Systems.
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Add to section 15-2.09A:

Salvage existing plaque on southern wall next to bridge and existing eye bolts and reattach them to the new wall facing and bridge in accordance with the details shown on the plans, these special provisions, and as directed by the Engineer.

The reattached plaque and eye bolts are to be fastened in place and embedded into the new wall facing with vandal resistant hardware. Submit a sketch providing dimensions for the final proposed locations of the plaque and eye bolts, and the method of attachment to the Engineer for review and approval.

Replace section 15-2.09E with:

15-2.09E Payment

Relocate plaque and eye bolts is measured by lump sum and includes full compensation for all labor, materials, tools, equipment and incidentals, and for doing all the work involved in salvaging and reattaching both the plaque and eye bolts.

Add to section 15-3.03:

At the abutment walls, locate joints and remove all shotcrete from around the thrust blocks and arch ribs for inspection and evaluation by the Engineer.

Add to section 15-3.04:

The Engineer will authorize shotcrete removal limits before the start of removal activities. Shotcrete removal must be measured by the square yard of the concrete before starting removal.

Locating and cleaning of arch rib joints and thrust block joints at the interface with the abutment walls are included in the payment for Remove Shotcrete.

Replace the 4th paragraph in section 15-4.01A(2) with:

Calculations for the removal plan must demonstrate the stability of the structure during each stage of removal. Include dead and live loads used in the design of protective covers.

Add to section 15-4.01A(2):

The City of San Diego's review time for work plans for removing specific structures or portions of structures is shown in the following table:

Structure or portion of structure	Review time
Deck, Sidewalk, Bents, and Columns	20 business days

Submit the following desirable experience qualification information:

1. Summary of the hydrodemolition subcontractor's experience.
2. Structural details from completed hydrodemolition projects of similar scope performed by the hydrodemolition subcontractor in the last 5 years. Include a project description and the owner's name and current phone number.
3. List of hydrodemolition operators and on-site foremen who will perform the hydrodemolition work and a summary of each individual's experience.

Add to section 15-4.01A(3)(a):

A test section of arch rib concrete cover removal (hydrodemolition) section must be completed and approved before commencement of arch rib concrete cover removal.

The test section must include 2 different faces of an arch rib for a length of at least 4 feet of the arch rib. The test section must remove cover concrete to half the final depth indicated on the plans.

The concrete cover of the arch ribs is already removed at some locations due to car crashes or concrete spalling. You must consider them to prevent any excessive removal of the concrete cover during hydrodemolition.

Replace the 1st paragraph in section 15-4.01A(3)(b) with:

For removal activities, the horizontal load to be resisted in any direction for temporary transverse braces, temporary support shoring and temporary bracing must be (1) the sum of actual horizontal loads due to equipment, construction sequence, or other causes plus an allowance for wind and (2) not less than 25 percent of the total dead load of the entire structure.

Replace the 2nd paragraph in section 15-4.01C(2)(a) with:

Temporary support shoring, temporary bracing, and protective covers must not encroach within 2 feet horizontally or 15 feet vertically of any traffic lane or shoulder open to public traffic.

Replace item 3 of the 1st paragraph in section 15-4.01C(2)(b) with:

3. Be supported using shoring or falsework.

Replace item 4 of the 1st paragraph in section 15-4.01C(2)(b) with:

4. Provide the openings specified in section 12-4 except that when no openings are specified for bridge removal and reconstruction provide a vertical opening of 15 feet and a horizontal opening of 32 feet for public traffic.

Add item 6 of the 1st paragraph in section 15-4.01C(2)(b):

6. Not be supported directly or indirectly using the existing or reconstructed structure

Add to the list in the 1st paragraph in section 15-4.01C(2)(b):

Falsework or supports for protective covers must not extend below the vertical clearance level at any location within the roadbed.

Add to section 15-4.01C(3)(a):

Implement a monitoring program using vandal-resistant displacement monitoring equipment for the entire construction period to monitor and record the settlements and movements of:

1. The existing arch rib at the mid-span,
2. Each abutment wall at four corners
3. The top and bottom of retaining walls at 60 feet spacing.

If the measured lateral movement of the abutment, arch ribs, or retaining walls is over one-half of an inch (1/2") or the measured vertical movement of the abutments, retaining walls, or arch ribs is over one-quarter of an inch (1/4"), construction must be stopped immediately and measures to mitigate the movement must be implemented before construction can resume. Perform monitoring continuously during the construction. Make monitoring records available at the job site during normal work hours.

During replacement of arch rib cover concrete maintain displacement monitoring of the arch rib using additional markers as needed.

Submit settlement and movement measurements and plots for review at the end of each working day during construction. Collect and plot settlement and movement monitoring data as directed by the Engineer. Plot data as settlement and movement (accurate to 1/16 of an inch) versus time (in day). Remove the displacement monitoring equipment and restore the areas to its original condition after construction is completed.

Within the arch rib, corrosion of the existing reinforcing is not anticipated. If repair or replacement of existing rebar within the arch rib is required per the Engineer, the work involved with removal, furnishing, and repairing the corroded rebar is change order work.

Replace section 15-4.01D with:

15-4.01D Payment

Bridge removal (portion) consist of removal of bridge deck, bentcaps, curtain walls, columns, and transverse struts. Bridge concrete barrier is paid under Remove Concrete Barrier . Bridge removal (portion) is measured by the cubic yard of the concrete volume before starting removal.

Payment for the bridge and retaining wall monitoring program as described in section 15-4.01C(3)(a) is included in the payment for Bridge Removal (Portion).

Replace section 15-5.01A with:

15-5.01A General

15-5.01A(1) Summary

Section 15-5 includes specifications for rehabilitating concrete bridges.

15-5.01A(2) Quality Control and Assurance

Extreme care must be taken to prevent cracking of the arch rib core concrete and damage to the arch rib existing longitudinal bars during construction. Immediately report any damage to the Engineer. Damage to the existing arch rib as a result of your operations must be repaired or replaced at your expense as required by the Engineer.

Add to section 15-5.01C(1):

The thrust blocks must remain isolated from movement or loading from the existing and new abutment wall facing.

Add to section 15-5.01C:

15-5.01C(7): Remove Arch Rib Concrete Cover

Hydrodemolition must be used to remove arch rib concrete cover.

Add to section 15-5.01D:

Arch rib concrete removal is measured by the square foot of the arch rib surface before starting removal.

Payment for hydrodemolition related labor, platforms, framing,equipment, vacuum, clean-up, disposal, water supply, temporary lighting, and staging is included in the payment for Remove Arch Rib Concrete Cover (Hydrodemolition).

Add to section 15-5.03D:

The Engineer authorizes repair limits before the initiation of repair activities. This is change order work.

19 EARTHWORK**Replace section 19-3.03A with:**

The existing deadmen and tie rods behind the abutment walls must be protected in place during the structural excavation and backfill.

DIVISION VI STRUCTURES**46 GROUND ANCHORS AND SOIL NAILS****Add to section 46-2.01D(2)(a):**

Performance test a minimum of 1 ground anchor per row of ground anchor. Do not test adjacent anchors in rows simultaneously. The Engineer determines which anchors are to be performance tested.

Delete the 2nd paragraph of section 46-2.02B.**Add to section 46-2.03A:**

Row 6 of ground anchors must be tensioned to 25 kips at construction stages 1 and 3 as shown in the plans. Ground anchor tensioning for stage 4B must comply with the following sequencing:

1. Load test ground anchors
2. Tension rows 1 through 5 ground anchors to 30% of their specified lock-off force
3. Tension rows 1 through 5 ground anchors to 60% of their specified lock-off force
4. Tension rows 1 through 5 ground anchors to 100% of their specified lock-off force
5. Relieve the tension force of row 6 of anchors to the shown lock-off force

You must avoid rebar along the vertical face of the thrust blocks while drilling for thrust block ground anchors. The abutment walls and thrust blocks must be cored in order to install abutment wall and thrust block ground anchors.

Replace the 1st paragraph of section 46-2.04 with:

The payment quantity for ground anchors is the quantity of ground anchors and includes load testing of the anchors.

Add to section 46-2.04:

The payment quantity for ground anchors is the quantity of ground anchors and includes load testing of the anchors and concrete coring through the abutment walls and thrust blocks to install abutment and thrust block ground anchors.

Add to the 2nd paragraph of section 46-3.01D(2)(b)(iii):

In addition to the proof test soil nails shown, install and test 22 proof test soil nails at locations determined by the Engineer.

Replace the 1st paragraph of section 46-3.02A with:

Each production soil nail must be a reinforcing bar encapsulated full length in a grouted corrugated plastic sheathing.

Add to section 46-3.03A:

Expect difficult soil nail installation at all retaining walls due to the presence of the following conditions:

1. Presence of cobbles and boulders
2. Potential caving of the loose and/or wet granular soils
3. Existing underground utilities and building foundations
4. Existing overhead electrical lines.

Add to section 46-3.04:

Payment for soil nail includes concrete coring through the retaining walls to install soil nails.

48 TEMPORARY STRUCTURES**Add to the list in the 4th paragraph in section 48-2.01C(2):**

Design calculations showing anticipated load path through falsework, considerations for anticipated displacements of falsework under loading, and considerations for limiting falsework and formwork loads transferred to the existing arch rib.

Add to section 48-2.03A:

Falsework and formwork must not be supported by the existing or reconstructed structures.

Replace "Reserved" in section 48-3 with:**48-3.01 GENERAL****48-3.01A Summary**

Section 48-3 includes specifications for providing temporary supports for existing structures during retrofit, reconstruction, and removal activities.

Temporary supports include longitudinal bracing struts, temporary transverse braces, and temporary vertical supports.

48-3.01C Submittals**48-3.01C(1) General**

Submit 2 copies of the initial location survey signed by an engineer who is registered as a civil engineer in the State.

Submit a copy of the monitoring record after completing reconstruction of the entire bridge.

48-3.01C(2) Shop Drawings

Submit shop drawings with design calculations for the temporary support system. Submit 6 copies of shop drawings and 2 copies of design calculations. Include the following:

1. Descriptions and values of all loads, including construction equipment loads.
2. Descriptions of equipment to be used.
3. Details and calculations for supporting the existing structure.
4. Stress sheets, anchor bolt layouts, shop details, and erection and removal plans for the temporary supports.
5. Assumed soil bearing values and design stresses for temporary support footings, including anticipated foundation settlement.
6. Details for additional bracing required during erection and removal of temporary supports.
7. Details of the displacement monitoring system, including equipment, location of control points, and methods and schedule of taking measurements.
8. Details for jacking the structure if settlement occurs in the temporary supports.

Calculations must show a summary of computed stresses in (1) temporary supports, (2) connections between temporary supports and the existing structure, and (3) existing load-supporting members. The computed stresses must include the effect of the jacking sequence. Calculations must include a lateral stiffness assessment of the temporary support system.

Shop drawings and calculations must be signed by an engineer who is registered as a civil engineer in the State.

Review time for temporary support shop drawings is 20 business days.

48-3.01D Quality Control and Assurance**48-3.01D(1) General**

Welding, welder qualification, and welding inspection for temporary supports must comply with AWS D1.1.

Before starting bridge removal activities, an engineer who is registered as a civil engineer in the State must inspect and certify that (1) the temporary supports and displacement monitoring system comply with the authorized shop drawings and (2) the materials and workmanship are satisfactory for the work. A copy of this certification must be available at the job site at all times.

An engineer who is registered as a civil engineer in the State must:

1. Be present during:
 1. bridge removal activities
 2. removal of soil in front of abutments
 3. removal of concrete cover from arch ribs
2. Inspect removal activities and report daily on the progress of the operation and the status of the remaining structure. The daily report must be available at the job site at all times.
3. Immediately submit proposed procedures to correct or remedy unplanned occurrences.

48-3.01D(2) Displacement Monitoring

Displacement monitoring of the structure must comply with 15-4.01C(3)(a).

Perform a survey of control points to record the location, width and depth of the full length of the existing arch ribs after the existing deck and spandrel columns are removed and before work begins on removal of arch rib cover concrete. Vertical control of the arch-rib is to be taken based on the bottom of arch-rib, and consideration is to be made for the additional $\frac{3}{4}$ " cover concrete. Control points must be taken at a minimum of 2 foot spacing along each arch rib. This survey is to be used only for locating the new arch rib cover concrete placement.

48-3.01D(3) Design Criteria

Place temporary transverse braces resisting transverse lateral loads at four locations along the span between arch ribs. Place temporary supports to support the arch ribs vertically and to limit transverse (out of plane) seismic movements of the arch ribs to 1/2 inch during construction.

The assumed horizontal load the temporary transverse braces must resist must be (1) the sum of actual horizontal loads due to equipment, construction sequence, or other causes plus an allowance for wind and (2) not less than 25 percent of the total dead load of the entire structure.

The axial design load for temporary vertical supports must be at least the dead load from the weight of all members, forms, and attached temporary supports. Adjust vertical design loads for the weight of the temporary supports and construction equipment loads. The Engineer does not authorize temporary transverse braces designs based on allowable stresses greater than those specified in section 48-2.01D(3)(c). Construction equipment loads must be at least 20 psf of deck surface area of the frame involved.

Place longitudinal bracing struts to resist axial design load shown. The longitudinal bracing struts must support the minimum longitudinal bracing struts axial design loads shown.

Design temporary vertical support footings to carry the loads imposed without exceeding the estimated soil bearing values or anticipated settlements. You must determine soil bearing values.

Provide additional bracing as required to withstand all imposed loads during each phase of temporary supports erection and removal. Bracing of arch ribs during removal of arch rib concrete cover will require temporary relocation of braces. During temporary relocations, arch-ribs are to remain braced at all times and no demolition work is to be performed on arch ribs. Include wind loads complying under section 48-2.01D(3)(b) in the design of additional bracing.

Mechanically connect (1) the existing structure to the temporary supports and (2) the temporary supports to their foundations. Mechanical connections must be capable of resisting the lateral design forces. Friction forces developed between the existing structure and temporary supports (1) are not considered an effective mechanical connection and (2) must not be used to reduce lateral forces.

Design mechanical connections to accommodate adjustments to the temporary support frame during use.

Temporary supports must comply with section 48-2.01D(3)(d).

48-3.02 MATERIALS

Manufactured assemblies must comply with section 48-2.01D(3)(c)(iv).

48-3.03 CONSTRUCTION

Where described, install temporary crash cushion modules under section 12-3.15 before starting temporary support activities. Remove crash cushion modules when authorized.

Construct temporary supports under section 48-2.03C.

Before removal of the bridge, the longitudinal bracing struts must not apply any active longitudinal force to the walls.

The temporary vertical supports must not allow vertical displacements of the arch ribs.

After reconstruction activities, the monitored control points must not deviate by more than 1/4 inch from the initial vertical survey elevations or other authorized elevations.

Remove temporary supports under section 48-2.03D. If traffic is carried on the structure on temporary supports, do not release temporary supports until the supported concrete has attained 100 percent of the specified strength.

Remove attachments from the existing structure. Restore concrete surfaces to original conditions except where permanent alterations are shown.

48-3.04 PAYMENT

Payment for temporary support is measured by lump sum and covers payment for longitudinal bracing struts, temporary transverse braces, and temporary vertical supports.

51 CONCRETE STRUCTURES

Add to section 51-1.01A:

Concrete for all exterior surfaces of the bridge, concrete barriers, abutments, lampposts, and walls must be integrally pigmented colored concrete. The color must be one of the following:

1. Sandstone produced by Davis Colors
2. River Sand produced by QC
3. Camel produced by Colorfull Color
4. An equivalent color approved by the Engineer

Concrete for all sidewalks, curbs and gutters, and pedestrian ramps must be integrally pigmented colored concrete. The color must be one of the following:

1. Pebble produced by Davis Colors
2. Pebble DM produced by QC Color
3. Sultana A-24 produced by Colorfull
4. An equivalent color approved by the Engineer

Add to section 51-1.01C(1):

Submit a workplan for arch-rib concrete placement. Include methods for placing the concrete, form design, and form materials.

Add to section 51-1.01D(3):

Concrete test panels must be made for:

1. Retaining walls
2. Abutments
3. Bridge Superstructure
4. Sidewalks

Test panels must be constructed on the job site but not on the bridge or retaining walls and must be covered by the anti-graffiti coating.

Add to section 51-1.02B:

Self-consolidating concrete (SCC) with fiber reinforcement is to be used for the new concrete cover of the arch ribs.

Add to section 51-1.03C(1):

Cleaning or sandblasting is required on all existing surfaces before placing concrete against.

Replace the 10th paragraph in section 51-1.03C(2)(a) with:

Existing 90 degree corners on concrete members are to be replaced in kind. Construct forms for exposed surfaces without chamfer unless shown otherwise in plans.

Add to section 51-1.03D(1):

When placing SCC, provide screens capable of preventing fiber reinforcement balls or lumps from being placed.

Do not place SCC containing:

5. Dry fiber reinforcement balls or lumps
6. A significant number of wet fiber reinforcement balls or lumps

Add to section 51-1.03E(3):

Perform nondestructive testing to detect the existing reinforcement before drilling the holes. Adjust the location of the holes to avoid the existing reinforcement. Do not cut off any arch rib existing longitudinal reinforcement. Cut-off of spandrel column existing reinforcement is allowed.

Add to the list in the 4th paragraph of section 51-1.03F(3):

9. All surfaces of bentcaps, arch ribs, abutment new facing, retaining wall new facing, transverse struts, under side of the deck, infill panels.

Replace the 1st paragraph in section 51-1.03F(5)(b)(i) with:

Except for bridge widenings, texture the bridge deck surfaces longitudinally by grinding and grooving.

Add to section 51-1.04:

Area of arch rib concrete cover must be calculated based on the new perimeter of the arch ribs.

New facing for both abutment walls and retaining wall are included in the payment for Structural Concrete, Retaining Wall.

Replace the 2nd paragraph of section 51-1.04 with:

The Department does not deduct the volume of bar reinforcing steel, structural steel, prestressing materials, geocomposite, or piling from the structural concrete quantity. There is no separate payment item for geocomposite.

52 REINFORCEMENT**Replaced the 7th paragraph of section 52-1.04 with:**

Bar reinforcing steel involved in bridge work is paid as:

- 1) bar reinforcing steel (arch rib) to cover the reinforcement to retrofit the arch ribs
- 2) bar reinforcing steel (bridge) to cover the general bridge reinforcement other than arch ribs

Add to section 52-6.03A:

Use welded lap splices for the new arch rib ties.

Add to section 52-6.03C(1):

4. Welded lap splices

Welded lap splices must comply with AWS D1.4.

53 SHOTCRETE

Add to section 53-1.03D:

The shotcrete surface at all locations must receive a class 1 surface finish or equivalent.

59 PAINTING

Add to section 59-8.01:

Anti-graffiti coating must have a minimum 10-year guarantee.

Add to section 59-8.03:

Apply anti-graffiti coating to all surfaces of the bridge, retaining walls, and barriers.

Add to section 59-8.04:

Payment for anti-graffiti coating is included in the payment for associated concrete. Anti-graffiti coating includes all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and applying anti-graffiti coating to concrete surfaces, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Add to section 64-1.04:

This payment includes furnishing and installation of 3-inch unslotted drainage pipe.

Add to section 64-2.04:

This payment includes furnishing and installation of 2-inch slotted drainage pipe.

DIVISION IX TRAFFIC CONTROL FACILITIES

83 RAILINGS AND BARRIERS

Replace the 2nd paragraph of section 83-2.02D(2) with:

Concrete for concrete barriers other than Type 50 and 60 series must contain not less than 630 pounds of cementitious material per cubic yard and must be air entrained. The air content at the time of mixing and before placing must be 3.0 ± 1.0 percent unless a higher air content is specified.

Add to section 83-2.03:

Concrete Slab Barriers are located along frontage roads east of Georgia Street and include both barriers and the slabs that extend away from walls in their entirety. Concrete slab barriers are measured along the length of barrier for payment. Payment for (1) bar reinforcing steel, (2) drilling and bonding dowels, (3) miscellaneous metal, (4) excavation, and (5) backfill, including concrete paving, sloped AC overlay with a minimum 2-inch thickness, and concrete slabs are included in the payment for concrete slab barriers.

86 ELECTRICAL SYSTEMS

Add to section 86-6.13A:

Install temporary lighting to illuminate University Avenue in place of lighting temporarily removed during construction.

DIVISION X MATERIALS

90 CONCRETE

Add to section 90-1.02G:

To maintain uniformity in integrally colored concrete, strict limits will be enforced on field-added water to trucks.

Add to section 90-1.02H:

Concrete at the bottom extension of abutment and retaining walls is in a corrosive environment. For concrete at the bottom extension of abutment and retaining walls, the cementitious material must be composed of one of the following, by weight:

1. 20 percent natural pozzolan or fly ash with a CaO content of up to 10 percent, 5 percent silica fume, and 75 percent portland cement
2. 12 percent silica fume, metakaolin, or UFFA, and 88 percent portland cement
3. 50 percent GGBFS and 50 percent portland cement

For concrete at the bottom extension of abutment and retaining walls, the ratio of the quantity of free water to the quantity of cementitious material must not exceed 0.40.

Add to section 90-5.01A:

A mock-up arch-rib cover concrete installation must be successfully completed and approved by the Engineer before beginning work on the arch-ribs. The mock-up is to be of comparable section geometry to the anticipated arch-rib, minimum 10 feet in length, with rebar ties in place. Concrete cure for mock-up is to be the same as anticipated cure for arch rib. The concrete color of the mock up

is to be the same as the color used for the arch rib and if ordered by the Engineer, additional mock-ups must be constructed and finished until the required SCC placement, finish and color is obtained, as determined by the Engineer. Mock-up must be covered by the anti-graffiti coating.

Add to section 90-5.01C:

Submit the fiber Reinforcing manufacturer's description and technical literature for the fibers.
Submit the fiber manufacturer's instructions, including:

1. Proposed type of fiber reinforcement being used
2. Methods and procedures for storing and handling the fibers
3. A description of the methods, techniques, and equipment used for:
 - a. Measuring the fibers, including equipment used
 - b. Dispensing the fiber reinforcement into the mixer free of fiber balls at a batching or mixing plant
 - c. Mixing fiber reinforcement in trucks
4. Methods and procedures for pumping, placing, and finishing the SCC with fiber reinforcing
5. Methods and procedures for removing and repairing SCC with fiber reinforcing defects

Add to section 90-5.02:

Use pea gravel as the course aggregate.

The fiber reinforcing ratio must be between 0.25% and 0.50% by weight of the total mix.

Fiber reinforcement must comply with ASTM C 1116, Type III, polyolefin.

The fiber reinforcement must contain a blend of micro and macro synthetic fiber reinforcement complying with the fiber reinforcement manufacturer's recommended mix design.

Micro synthetic fibers must be ½ to ¾ inch in length.

Macro synthetic fibers must be 1 to 2 inches in length.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

REVISED STANDARD SPECIFICATIONS DATED 07-18-14

ORGANIZATION

Revised standard specifications are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*. A date under a main-section heading is the date of the latest revision to the section.

Each revision to the *Standard Specifications* begins with a revision clause that describes or introduces a revision to the *Standard Specifications*. For a revision clause that describes a revision, the date on the right above the clause is the publication date of the revision. For a revision clause that introduces a revision, the date on the right above a revised term, phrase, clause, paragraph, or section is the publication date of the revised term, phrase, clause, paragraph, or section. For a multiple-paragraph or multiple-section revision, the date on the right above a paragraph or section is the publication date of the paragraphs or sections that follow.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.

ORGANIZATIONAL REVISIONS

07-19-13

Transfer section 36 from division IV to division V.

DIVISION I GENERAL PROVISIONS

1 GENERAL

02-21-14

Replace "current" in the 2nd paragraph of section 1-1.05 with:

most recent

04-20-12

Add to the 4th paragraph of section 1-1.05:

04-20-12

Any reference directly to a revised standard specification section is for convenience only. Lack of a direct reference to a revised standard specification section does not indicate a revised standard specification for the section does not exist.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Add to the 1st table in section 1-1.06:

04-19-13

LCS	Department's lane closure system
POC	pedestrian overcrossing
QSD	qualified SWPPP developer
QSP	qualified SWPPP practitioner
TRO	time-related overhead
WPC	water pollution control

06-20-12

Delete the abbreviation and its meaning for *UDBE* in the 1st table of section 1-1.06.

10-19-12

Delete "Contract completion date" and its definition in section 1-1.07B.

10-19-12

Delete "critical delay" and its definition in section 1-1.07B.

Replace "day" and its definition in section 1-1.07B with:

10-19-12

day: 24 consecutive hours running from midnight to midnight; calendar day.

1. **business day:** Day on the calendar except a Saturday and a holiday.
2. **working day:** Time measure unit for work progress. A working day is any 24-consecutive-hour period except:
 - 2.1. Saturday and holiday.
 - 2.2. Day during which you cannot perform work on the controlling activity for at least 50 percent of the scheduled work shift with at least 50 percent of the scheduled labor and equipment due to any of the following:
 - 2.2.1. Adverse weather-related conditions.
 - 2.2.2. Maintaining traffic under the Contract.
 - 2.2.3. Suspension of a controlling activity that you and the Engineer agree benefits both parties.
 - 2.2.4. Unanticipated event not caused by either party such as:
 - 2.2.4.1. Act of God.
 - 2.2.4.2. Act of a public enemy.
 - 2.2.4.3. Epidemic.
 - 2.2.4.4. Fire.
 - 2.2.4.5. Flood.
 - 2.2.4.6. Governor-declared state of emergency.
 - 2.2.4.7. Landslide.
 - 2.2.4.8. Quarantine restriction.
 - 2.2.5. Issue involving a third party, including:
 - 2.2.5.1. Industry or area-wide labor strike.
 - 2.2.5.2. Material shortage.
 - 2.2.5.3. Freight embargo.
 - 2.2.5.4. Jurisdictional requirement of a law enforcement agency.
 - 2.2.5.5. Workforce labor dispute of a utility or nonhighway facility owner resulting in a nonhighway facility rearrangement not described and not solely for the Contractor's convenience. Rearrangement of a nonhighway facility includes installation, relocation, alteration, or removal of the facility.
 - 2.3. Day during a concurrent delay.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

3. **original working days:**
 - 3.1. Working days to complete the work shown on the *Notice Inviting Bids* for a non-cost plus time based bid.
 - 3.2. Working days bid to complete the work for a cost plus time based bid.

Where working days is specified without the modifier "original" in the context of the number of working days to complete the work, interpret the number as the number of original working days as adjusted by any time adjustment.

Replace "Contract" in the definition of "early completion time" in section 1-1.07B with:

10-19-12

work

Replace "excusable delay" and its definition in section 1-1.07B with:

10-19-12

delay: Event that extends the completion of an activity.

1. **excusable delay:** Delay caused by the Department and not reasonably foreseeable when the work began such as:
 - 1.1. Change in the work
 - 1.2. Department action that is not part of the Contract
 - 1.3. Presence of an underground utility main not described in the Contract or in a location substantially different from that specified
 - 1.4. Described facility rearrangement not rearranged as described, by the utility owner by the date specified, unless the rearrangement is solely for the Contractor's convenience
 - 1.5. Department's failure to obtain timely access to the right-of-way
 - 1.6. Department's failure to review a submittal or provide notification in the time specified
2. **critical delay:** Excusable delay that extends the scheduled completion date
3. **concurrent delay:** Occurrence of at least 2 of the following events in the same period of time, either partially or entirely:
 - 3.1. Critical delay
 - 3.2. Delay to a controlling activity caused by you
 - 3.3. Non-working day

Replace "project" in the definition of "scheduled completion date" in section 1-1.07B with:

10-19-12

work

Add to section 1-1.07B:

10-19-12

Contract time: Number of original working days as adjusted by any time adjustment.

06-20-12

Disadvantaged Business Enterprise: Disadvantaged Business Enterprise as defined in 49 CFR 26.5.

Replace the Web site for the Department of General Services, Office of Small Business and DVBE Services in the table in section 1-1.11 with:

11-15-13

<http://www.dgs.ca.gov/dgs/ProgramsServices/BusServices.aspx>

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

5 CONTROL OF WORK

05-30-14

Add between the 2nd and 3rd paragraphs of section 5-1.23A:

Submit action and informational submittals to the Engineer.

10-19-12

Add between the 5th and 6th paragraphs of section 5-1.23B(1):

For a revised submittal, allow the same number of days for review as for the original submittal.

07-19-13

Delete the 1st sentence in the 10th paragraph of section 5-1.23B(2).

07-19-13

Add to the list in the 1st paragraph of section 5-1.36A:

10. Survey monuments

07-19-13

Add to section 5-1.36:

07-19-13

5-1.36E Survey Monuments

Protect survey monuments on and off the highway. Upon discovery of a survey monument not identified and located immediately:

1. Stop work near the monument
2. Notify the Engineer

Do not resume work near the monument until authorized.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

05-30-14

Add between the 18th and 19th paragraphs of section 7-1.04:

09-16-11

Temporary facilities that could be a hazard to public safety if improperly designed must comply with design requirements described in the Contract for those facilities or, if none are described, with standard design criteria or codes appropriate for the facility involved. Submit shop drawings and design calculations for the temporary facilities and show the standard design criteria or codes used. Shop drawings and supplemental calculations must be sealed and signed by an engineer who is registered as a civil engineer in the State.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

8 PROSECUTION AND PROGRESS

10-19-12

Replace "working days" in the 1st paragraph of section 8-1.02B(1) with:

10-19-12

original working days

Replace "working days" at each occurrence in the 1st paragraph of section 8-1.02C(1) with:

10-19-12

original working days

Delete the 4th paragraph of section 8-1.02C(1).

04-20-12

Replace "Contract" in the 9th paragraph of section 8-1.02C(1) with:

10-19-12

work

Replace the 1st paragraph of section 8-1.02C(3)(a) with:

04-20-12

Submit a description of your proposed schedule software for authorization.

04-20-12

Delete the last paragraph of section 8-1.02C(3)(a).

Replace section 8-1.02C(3)(b) with:

10-19-12

8-1.02C(3)(b) Reserved

04-20-12

Delete the 3rd paragraph of section 8-1.02C(5).

Replace "Contract" in the last paragraph of section 8-1.02C(5) with:

10-19-12

original

Replace "working days" in the 1st paragraph of section 8-1.02D(1) with:

10-19-12

original working days

Replace "8-1.02D(1)" in the 2nd paragraph of section 8-1.02D(1) with:

01-20-12

8-1.02C(1)

Replace "Contract" in the 3rd paragraph of section 8-1.02D(2) with:

10-19-12

work

Replace "Contract" in item 9 in the list in the 4th paragraph of section 8-1.02D(4) with:

10-19-12

work

Replace "Contract completion" in the 4th paragraph of section 8-1.02D(6) with:

10-19-12

work completion

Replace "Contract working days" in the 4th paragraph of section 8-1.02D(6) with:

10-19-12

original working days

04-20-12

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Delete items 1.3 and 1.4 in the list in the 1st paragraph of section 8-1.02D(10).

Replace the last paragraph of section 8-1.04B with:

10-19-12

The Department does not adjust time for starting before receiving notice of Contract approval.

Replace the 1st paragraph of section 8-1.05 with:

10-19-12

Contract time starts on the last day specified to start job site activities in section 8-1.04 or on the day you start job site activities, whichever occurs first.

Replace the 2nd paragraph of section 8-1.05 with:

10-19-12

Complete the work within the Contract time.

Delete "unless the Contract is suspended for reasons unrelated to your performance" in the 4th paragraph of section 8-1.05.

10-19-12

Replace the headings and paragraphs in section 8-1.06 with:

10-19-12

The Engineer may suspend work wholly or in part due to conditions unsuitable for work progress. Provide for public safety and a smooth and unobstructed passageway through the work zone during the suspension as specified under sections 7-1.03 and 7-1.04. Providing the passageway is force account work. The Department makes a time adjustment for the suspension due to a critical delay.

The Engineer may suspend work wholly or in part due to your failure to (1) fulfill the Engineer's orders, (2) fulfill a Contract part, or (3) perform weather-dependent work when conditions are favorable so that weather-related unsuitable conditions are avoided or do not occur. The Department may provide for a smooth and unobstructed passageway through the work during the suspension and deduct the cost from payments. The Department does not make a time adjustment for the suspension.

Upon the Engineer's order of suspension, suspend work immediately. Resume work when ordered.

Replace the 1st sentence in the 1st paragraph of section 8-1.07B with:

10-19-12

For a critical delay, the Department may make a time adjustment.

Add to the end of section 8-1.07C:

10-19-12

The Department does not make a payment adjustment for overhead incurred during non-working days that extend the Contract into an additional construction season.

Replace the 1st paragraph of section 8-1.07C with:

10-19-12

For an excusable delay that affects your costs, the Department may make a payment adjustment.

Replace "8-1.08B and 8-1.08C" in the 1st paragraph of section 8-1.10A with:

08-05-11

8-1.10B and 8-1.10C

Replace section 8-1.10D with:

10-19-12

8-1.10D Reserved

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

9 PAYMENT

11-15-13

Add to the list in the 1st paragraph of section 9-1.03:

07-19-13

3. Any royalties and costs arising from patents, trademarks, and copyrights involved in the work

Replace item 1 in the 3rd paragraph of section 9-1.03 with:

01-18-13

1. Full compensation for all work involved in each bid item shown on the Bid Item List by the unit of measure shown for that bid item

Replace "in" in the 3rd paragraph of section 9-1.04A with:

10-19-12

for

Add to the end of section 9-1.04A:

10-19-12

For nonsubcontracted work paid by force account for a contract with a TRO bid item, the markups are those shown in the following table instead of those specified in sections 9-1.04B–D:

Cost	Percent markup
Labor	30
Materials	10
Equipment rental	10

Replace the formula in section 9-1.07B(2) with:

04-20-12

$$Q_h = HMATT \times X_a$$

Replace "weight of dry aggregate" in the definition of the variable X_a in section 9-1.07B(2) with:

04-20-12

total weight of HMA

Replace the formula in section 9-1.07B(3) with:

04-20-12

$$Q_{rh} = RHMATT \times 0.80 \times X_{arb}$$

Replace "weight of dry aggregate" in the definition of the variable X_{arb} in section 9-1.07B(3) with:

04-20-12

total weight of rubberized HMA

Replace the heading of section 9-1.07B(4) with:

04-20-12

Hot Mix Asphalt with Modified Asphalt Binder

Add between "in" and "modified" in the introductory clause of section 9-1.07B(4):

04-20-12

HMA with

Replace the formula in section 9-1.07B(4) with:

04-20-12

$$Q_{mh} = MHMATT \times [(100 - X_{am}) / 100] \times X_{mab}$$

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Replace "weight of dry aggregate" in the definition of the variable X_{mab} in section 9-1.07B(4) with:

total weight of HMA

04-20-12

Replace the formula in section 9-1.07B(5) with:

$Q_{rap} = HMATT \times X_{aa}$

04-20-12

Replace "weight of dry aggregate" in the definitions of the variables X_{aa} and X_{ta} in section 9-1.07B(5) with:

total weight of HMA

04-20-12

Add after the variable definitions in section 9-1.07B(9):

The quantity of extender oil is included in the quantity of asphalt.

04-20-12

Replace the paragraphs of section 9-1.16D with:

9-1.16D(1) General

Section 9-1.16D applies if a bid item for mobilization is shown on the Bid Item List.

Payments for mobilization made under section 9-1.16D are in addition to the partial payments made under Pub Cont Code § 10261.

Section 9-1.16D(2) applies unless the Contract includes a special provision for section 9-1.16D(1) that specifies section 9-1.16D(3) applies.

07-19-13

11-15-13

9-1.16D(2) Mobilization for Projects Except for Those Over Water Requiring Marine Access

07-19-13

The Department makes partial payments for mobilization under Pub Cont Code § 10264(a) except the amount of work completed does not include the amount earned for mobilization. The partial payment amount is reduced by a prorated amount bid in excess of the maximum allowed under Pub Cont Code § 10264(a)(5).

The Department pays the item total for mobilization in excess of the maximum allowed under Pub Cont Code § 10264(a)(5) in the 1st payment after Contract acceptance.

Replace "2014" in the 1st paragraph of section 9-1.16F with:

2020

10-19-12

Replace the 2nd paragraph of section 9-1.17C with:

Submit either a written acceptance of the proposed final estimate or a claim statement postmarked or hand delivered before the 31st day after receiving the proposed final estimate.

10-19-12

Add between "the" and "final estimate" in the 1st sentence in the 3rd paragraph of section 9-1.17C:

proposed

10-19-12

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Replace the 1st sentence in the 6th paragraph of section 9-1.17D(2)(b) with:

07-19-13

The CPA's audit must be performed as an examination-level engagement under the attestation engagements in the *Government Auditing Standards* published by the Comptroller General of the United States.

DIVISION II GENERAL CONSTRUCTION

11 QUALITY CONTROL AND ASSURANCE

07-19-13

Replace section 11-2 with:

07-19-13

11-2 RESERVED

Replace the table in the 3rd paragraph of section 11-3.01A with:

07-19-13

AWS code	Year of adoption
D1.1	2010
D1.3	2008
D1.4	2011
D1.5	2010
D1.6	2007
D1.8	2009

Replace "does" in the definition of "continuous inspection" in section 11-3.01B with:

07-19-13

do

Replace "gross nonconformance" and its definition in section 11-3.01B with:

07-19-13

gross nonconformance: Rejectable indications are present in more than 20 percent of the tested weld length.

Replace the introductory clause in the 1st paragraph of section 11-3.01C with:

07-19-13

Replace clause 6.1.3 of AWS D1.1, the 1st paragraph of clause 7.1.2 of AWS D1.4, and clause 6.1.2 of AWS D1.5 with:

Replace the 3rd paragraph of section 11-3.01C with:

07-19-13

For each inspection, including fit-up, WPS verification, and final weld inspection, the QC Inspector must confirm and document compliance with the specifications, AWS welding codes, and any referenced drawings.

Replace the paragraphs in section 11-3.01D with:

07-19-13

The Engineer has the authority to verify the qualifications or certifications of any welder, QC Inspector, or NDT personnel to specified levels by retests or other means determined by the Engineer. If welding will be performed without gas shielding, then qualification must also include welding without gas shielding.

Replace clause 6.14.6.1 of AWS D1.1, clause 7.8 of AWS D1.4, and clause 6.1.3.4 of AWS D1.5

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

with:

Personnel performing NDT must be qualified and certified under American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A and the written practice of the NDT firm. The written practice of the NDT firm must comply with or exceed the guidelines of the ASNT Recommended Practice No. SNT-TC-1A. Individuals who perform NDT, review the results, and prepare the written reports must be one of the following:

1. Certified NDT Level II technicians
2. Level III technicians certified to perform the work of Level II technicians

Replace the heading and the 1st through 3rd paragraphs of section 11-3.01E with:

07-19-13

11-3.01E Weld Joint Details

If weld joint details proposed for use in the work are not prequalified under clause 3 of AWS D1.1 or figure 2.4 or 2.5 of AWS D1.5, submit the proposed WPS and the intended weld joint locations.

Upon authorization of the proposed joint detail locations and qualification of the proposed joint details, welders and welding operators using these details must weld an additional qualification test plate using the WPS variables and the weld joint detail to be used in production. The test plate must:

1. Have the maximum thickness to be used in production and a minimum length of 18 inches.
2. Be mechanically and radiographically tested. Mechanical and radiographic testing and acceptance criteria must comply with the applicable AWS codes.

If a nonprequalified weld joint configuration is proposed using a combination of WPSs for work welded under AWS D1.1, you may conduct a single test combining the WPSs to be used in production, if the essential variables, including weld bead placement, of each process are limited to those established in table 4.5 of AWS D1.1.

Replace the 1st paragraph of section 11-3.02A with:

07-19-13

Except for stud welding, section 11-3.02 applies to (1) work welded under sections 49, 52, 55, and 75-1.03E and (2) work in section 99 that must comply with an AWS welding code.

Delete the 3rd sentence in the 5th paragraph of section 11-3.02C(3).

Replace the introductory clause in the 1st paragraph of section 11-3.02D with:

07-19-13

Clauses 6.1.4.1 and 6.1.4.3 of AWS D1.1, the 2nd paragraph of clause 7.1.2 of AWS D1.4, clauses 6.1.3.1 through 6.1.3.3 of AWS D1.5, and clause 7.2.3 of AWS D1.8 are replaced with:

12 TEMPORARY TRAFFIC CONTROL

05-30-14

Replace the 5th paragraph of section 12-3.01A(1) with:

05-30-14

Repair or replace traffic-handling equipment and devices damaged from any cause during the Contract, including repainting if necessary. The condition of temporary traffic control devices must comply with the current American Traffic Safety Services Association publication "Quality Guidelines for Temporary Traffic Control Devices and Features."

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Replace the 1st paragraph of section 12-3.01A(4) with:

Category 2 temporary traffic control devices must be on FHWA's list of acceptable, crashworthy Category 2 hardware for work zones. This list is available on FHWA's Safety Program Web site. 10-19-12

Replace section 12-7 with:

12-7 TEMPORARY PEDESTRIAN FACILITIES 07-19-13

12-7.01 GENERAL

Section 12-7 includes specifications for constructing temporary pedestrian facilities.

Temporary pedestrian facilities must comply with the *California MUTCD*, Part 6, Chapter 6D, "Pedestrian and Worker Safety."

Design temporary pedestrian facilities with protective overhead covering to support all imposed loads.

The design load and maximum allowable stresses for temporary pedestrian facilities with protective overhead covering must comply with section 48-2.01D(3). The minimum design live load for the temporary pedestrian facilities with protective overhead covering must be 150 psf for the entire structure.

The minimum width of the temporary pedestrian facilities with protective overhead covering between the inside face of handrails must be 60 inches. The clear height of the temporary pedestrian facilities with protective overhead covering measured from the floor surface to the canopy overhead must be at least 8 feet. Provide adequate lighting at all times. Lighting must comply with section 86-6.13.

Submit shop drawings with supporting calculations for temporary pedestrian facilities with protective overhead covering. Shop drawings and calculations must be signed by an engineer who is registered as a civil engineer in the State.

12-7.02 MATERIALS

Walkways must be surfaced with HMA, portland cement concrete, or wood. The surface must be skid resistant and free of irregularities.

Hand railings must be S4S lumber and painted white.

Protective overhead covering of temporary pedestrian facilities must be plywood at least 3/4 inch thick or wood planking with a nominal thickness of 2 inches minimum.

12-7.03 CONSTRUCTION

Construct hand railings on each side of a temporary pedestrian facility as necessary to protect pedestrian traffic from hazards due to work activities or adjacent vehicular traffic.

Maintain temporary pedestrian facilities in good condition and keep them clear of obstructions.

12-7.04 PAYMENT

Not Used

15 EXISTING FACILITIES

07-19-13

Replace the paragraphs of section 15-2.02B(1) with:

07-19-13

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Section 15-2.02B includes specifications for removing pavement, base, subbase, and subgrade.

If only a portion of the pavement is removed, saw-cut the outline of the removal area on a neat line and with a power-driven saw before removing.

For asphalt concrete pavement, saw cuts must be at least 2 inches deep unless otherwise described.

Replace the paragraphs of section 15-3.01 with:

07-19-13

Section 15-3 includes specifications for removing all or a portion of a concrete facility.

Concrete facilities include curbs, gutters, gutter depressions, sidewalks, driveways, slope paving, island paving, barriers, retaining walls, sound walls, minor structures, aprons, spillways, and dams.

Where broken-concrete slope protection is shown, use removed concrete for the construction of the broken-concrete slope protection.

Instead of disposing of removed concrete by removing it from the job site, you may dispose of it on the job site by one of the following methods:

1. Burying it in embankments at authorized locations. Removed concrete must be broken into pieces that can be readily handled and incorporated into embankments and placed at a depth of at least 3 feet below finished grade and slope lines. Concrete must not be buried in areas where piling is to be placed or within 10 feet of trees, pipelines, poles, buildings or other permanent objects or structures.
2. Placing it at authorized locations. The removed concrete must not present an unsightly appearance from the highway.

Replace the paragraph of section 15-3.02 with:

07-19-13

Not Used

07-19-13

Delete the 5th paragraph of section 15-3.03.

Add to the end of section 15-4.01A(2):

04-19-13

Allow 20 working days for review of the bridge removal work plan.

Replace the 1st paragraph of section 15-5.01C(1) with:

10-19-12

Before starting deck rehabilitation activities, complete the removal of any traffic stripes, pavement markings, and pavement markers.

Replace the 2nd paragraph of section 15-5.01C(4) with:

10-19-12

Before removing asphalt concrete surfacing, verify the depth of the surfacing at the supports and midspans of each structure (1) in each shoulder, (2) in the traveled way, and (3) at the roadway crown, if a crown is present.

Add between the 5th and 6th paragraphs of section 15-5.03C:

10-19-12

The final surface finish of the patched concrete surface must comply with section 51-1.03F.

Replace the 1st paragraph in section 15-5.07B(4) with:

Payment for furnishing dowels is not included in the payment for core and pressure grout dowel.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

DIVISION VI STRUCTURES

46 GROUND ANCHORS AND SOIL NAILS

07-19-13

Replace the 1st paragraph of section 46-1.01C(2) with:

04-19-13

The City of San Diego's review time for work plans for removing specific structures or portions of structures is shown in the following table

Submit 5 copies of shop drawings for review. Include in the notification the date and contents of the submittal. Allow 30 working days for City of San Diego review. After review, submit from 6 to 12 copies, as requested, for authorization and use during construction.

Shop drawings and calculations must be sealed and signed by an engineer who is registered as a civil engineer in the State.

Replace the 3rd paragraph of section 46-1.01C(2) with:

01-18-13

Ground anchor shop drawings must include:

1. Details and specifications for the anchorage system and ground anchors.
2. Details for the transition between the corrugated plastic sheathing and the anchorage assembly.
3. If shims are used during lock-off, shim thickness and supporting calculations.
4. Calculations for determining the bonded length. Do not rely on any capacity from the grout-to-ground bond within the unbonded length.

01-18-13

Delete the 5th and 6th paragraphs of section 46-1.01C(2).

Replace the 4th paragraph of section 46-1.01D(2)(b) with:

01-18-13

Each jack and its gage must be calibrated as a unit under the specifications for jacks used to tension prestressing steel permanently anchored at 25 percent or more of its specified minimum ultimate tensile strength in section 50-1.01D(3).

Replace the 3rd paragraph of section 46-1.01D(2)(d) with:

07-19-13

The Department may verify the test loads using the Department's load cells. If requested, install and support the Department's testing equipment during testing and remove the equipment after testing is complete.

Add to section 46-1.02:

07-19-13

46-1.02C Grout

Grout must consist of cement and water and may contain an admixture if authorized. Cement must comply with section 90-1.02B(2). Water must comply with section 90-1.02D. Admixtures must comply with section 90, except they must not contain chloride ions in excess of 0.25 percent by weight. Do not exceed 5 gallons of water per 94 lb of cement.

Mix the grout as follows:

1. Add water to the mixer followed by cement and any admixtures or fine aggregate.
2. Mix the grout with mechanical mixing equipment that produces a uniform and thoroughly

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

- mixed grout.
3. Agitate the grout continuously until the grout is pumped.
 4. Do not add water after the initial mixing.

Add to section 46-1.03B:

04-20-12

Dispose of drill cuttings under section 19-2.03B.

Add to the end of section 46-1.03C:

07-19-13

Grouting equipment must be:

1. Capable of grouting at a pressure of at least 100 psi
2. Equipped with a pressure gage having a full-scale reading of not more than 300 psi

07-19-13

Delete the 3rd paragraph of section 46-2.01A.

Add to the beginning of section 46-2.01C:

07-19-13

Submittals for strand tendons, bar tendons, bar couplers, and anchorage assemblies must comply with section 50-1.01C.

Add to section 46-2.01D:

07-19-13

46-2.01D(3) Steel

Strand tendons, bar tendons, bar couplers, and anchorage assemblies must comply with section 50-1.01D.

46-2.01D(4) Grout

The Department tests the efflux time of the grout under California Test 541.

Add to the beginning of section 46-2.02B:

07-19-13

Strand tendons, bar tendons, and bar couplers must comply with section 50-1.02B.

Replace the 1st paragraph of section 46-2.02E with:

07-19-13

The efflux time of the grout immediately after mixing must be at least 11 seconds.

Add between the 13th and 14th paragraphs of section 46-2.03A:

07-19-13

If hot weather conditions will contribute to quick stiffening of the grout, cool the grout by authorized methods as necessary to prevent blockages during pumping activities.

Add between the 1st and 2nd paragraphs of section 46-2.03D:

07-19-13

Secure the ends of strand tendons with a permanent type anchorage system that:

1. Holds the prestressing steel at a force producing a stress of at least 95 percent of the specified ultimate tensile strength of the steel

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

2. Permanently secures the ends of the prestressing steel

Replace the 2nd sentence of the 1st paragraph of section 46-3.02A with:

07-19-13

The epoxy-coated prefabricated reinforcing bar must comply with section 52-2.03, except the epoxy thickness must be from 10 to 12 mils.

Replace the 2nd paragraph of section 46-3.02B with:

07-19-13

Concrete anchors on bearing plates must comply with the specifications for studs in clause 7 of AWS D1.1.

07-19-13

Delete the 1st paragraph of section 46-3.02E.

48 TEMPORARY STRUCTURES

Replace "previously welded splice" and its definition in section 48-2.01B with:

07-19-13

04-19-13

previously welded splice: Splice made in a falsework member in compliance with AWS D1.1 or other recognized welding standard before contract award.

Add to section 48-2.01B:

07-19-13

independent support system: Support system that is in addition to the falsework removal system employing methods of holding falsework from above by winches, hydraulic jacks with prestressing steel, HS rods, or cranes.

04-19-13

Delete "field" in the 1st sentence of the 5th paragraph of section 48-2.01C(1).

Replace item 1 in the list in the 6th paragraph of section 48-2.01C(1) with:

04-19-13

1. Itemize the testing, inspection methods, and acceptance criteria used

Replace "sets" at each occurrence in the 4th paragraph of section 48-2.01C(2) with:

07-19-13

copies

Replace the 7th paragraph of section 48-2.01C(2) with:

09-16-11

If you submit multiple submittals at the same time or additional submittals before review of a previous submittal is complete:

1. You must designate a review sequence for submittals
2. Review time for any submittal is the review time specified plus 15 Working days for each submittal of higher priority still under review

Add to section 48-2.01C(2):

07-19-13

Shop drawings and calculations for falsework removal systems employing methods of holding falsework from above by winches, hydraulic jacks with prestressing steel, HS rods, or cranes must include:

1. Design code used for the analysis of the structural members of the independent support

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

- system
2. Provisions for complying with current Cal/OSHA requirements
 3. Load tests and ratings within 1 year of intended use of hydraulic jacks and winches
 4. Location of the winches, hydraulic jacks with prestressing steel, HS rods, or cranes
 5. Analysis showing that the bridge deck and overhang are capable of supporting all loads at all time
 6. Analysis showing that winches will not overturn or slide during all stages of loading
 7. Location of deck and soffit openings if needed
 8. Details of repair for the deck and soffit openings after falsework removal

Replace the 1st paragraph of section 48-2.01D(2) with:

04-19-13

Welding must comply with AWS D1.1 or other recognized welding standard, except for fillet welds where the load demands are 1,000 lb or less per inch for each 1/8 inch of fillet weld.

Replace the 1st through 3rd sentences in the 2nd paragraph of section 48-2.01D(2) with:

04-19-13

Perform NDT on welded splices using UT or RT. Each weld and any repair made to a previously welded splice must be tested.

Replace the 3rd paragraph of section 48-2.01D(2) with:

04-19-13

For previously welded splices, perform and document all necessary testing and inspection required to certify the ability of the falsework members to sustain the design stresses.

Add to section 48-2.01D(3)(a):

07-19-13

Falsework removal system employing methods of holding falsework from above and members of the independent support system must support the sum of the actual vertical and horizontal loads due to falsework materials, equipment, construction sequence or other causes, and wind loading. Identifiable mechanical devices used in the falsework removal plan must meet applicable industry standards and manufacturer instructions for safe load carrying capacity. Unidentifiable winches must be capable of carrying twice the design load.

The load used for the analysis of overturning moment and sliding of the winch system must be 150 percent of the design load.

Add to section 48-2.03D:

07-19-13

Falsework removal employing methods of holding falsework by winches, hydraulic jacks with prestressing steel, HS rods, or cranes must also be supported by an independent support system when the system is not actively lowering the falsework at vehicular, pedestrian, or railroad traffic openings.

Bridge deck openings used to facilitate falsework removal activities must be formed and located away from the wheel path. The formed openings must be wedge shaped with a 5-inch maximum diameter at the top and a 3-inch maximum diameter at the bottom.

Anchor 10-inch-square aluminum or galvanized steel wire, 1/4-inch-mesh hardware cloth with a 0.025- inch minimum wire diameter firmly to the inside of the soffit openings. Construct a 1/2-inch drip groove to the outside of soffit openings.

Clean and roughen openings made in the bridge deck. Fill the deck openings with rapid setting concrete complying with section 15-5.02.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

50 PRESTRESSING CONCRETE

07-19-13

Replace "sets" at each occurrence in the 2nd and 3rd paragraphs of section 50-1.01C(3) with:

04-19-13

copies

Add to section 50-1.01C(3):

07-19-13

Include a grouting plan with your shop drawing submittal. The grouting plan must include:

1. Detailed grouting procedures
2. Type, quantity, and brand of materials to be used
3. Type of equipment to be used including provisions for backup equipment
4. Types and locations of grout inlets, outlets, and vents
5. Methods to clean ducts before grouting
6. Methods to control the rate of flow within ducts
7. Theoretical grout volume calculations for each duct
8. Duct repair procedures due to an air pressure test failure
9. Mixing and pumping procedures
10. Direction of grouting
11. Sequence of use of inlets and outlets
12. Procedure for handling blockages
13. Proposed forms for recording grouting information
14. Procedure for secondary grouting
15. Names of people who will perform grouting activities including their relevant experience and certifications

Add to section 50-1.01C:

07-19-13

50-1.01C(5) Grout

Submit a daily grouting report for each day grouting is performed. Submit the report within 3 Working days after grouting. The report must be signed by the technician supervising the grouting activity. The report must include:

1. Identification of each tendon
2. Date grouting occurred
3. Time the grouting started and ended
4. Date of placing the prestressing steel in the ducts
5. Date of stressing
6. Type of grout used
7. Injection end and applied grouting pressure
8. Actual and theoretical quantity of grout used to fill duct
9. Ratio of actual to theoretical grout quantity
10. Records of air, grout, and structure surface temperatures during grouting.
11. Summary of tests performed and results, except submit compressive strength and chloride ion test results within 48 hours of test completion
12. Names of personnel performing the grouting activity
13. Summary of problems encountered and corrective actions taken
14. Summary of void investigations and repairs made

Replace the introductory clause in the 1st paragraph of section 50-1.01C(4) with:

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Submit test samples for the materials shown in the following table to be used in the work: 07-19-13

Add between "the" and "test samples" in the 1st paragraph of section 50-1.01D(2):

prestressing steel 07-19-13

Replace the 3rd paragraph of section 50-1.01D(2) with:

The Department may verify the prestressing force using the Department's load cells. 10-19-12

Replace the 3rd paragraph in section 50-1.01D(3) with:

Each pressure gage must be fully functional and have an accurately reading, clearly visible dial or display. The dial must be at least 6 inches in diameter and graduated in 100 psi increments or less. 07-19-13

Add between the 5th and 6th paragraphs of section 50-1.01D(3):

Each jack and its gages must be calibrated as a unit. 07-19-13

Replace the 6th paragraph in section 50-1.01D(3) with:

Each jack used to tension prestressing steel permanently anchored at 25 percent or more of its specified minimum ultimate tensile strength must be calibrated by METS within 1 year of use and after each repair. You must: 07-19-13

1. Schedule the calibration of the jacking equipment with METS
2. Mechanically calibrate the gages with a dead weight tester or other authorized means before calibration of the jacking equipment by METS
3. Verify that the jack and supporting systems are complete, with proper components, and are in good operating condition
4. Provide labor, equipment, and material to (1) install and support the jacking and calibration equipment and (2) remove the equipment after the calibration is complete
5. Plot the calibration results

Each jack used to tension prestressing steel permanently anchored at less than 25 percent of its specified minimum ultimate tensile strength must be calibrated by an authorized laboratory within 6 months of use and after each repair.

Add to section 50-1.01D:

50-1.01D(4) Pressure Testing Ducts

For post-tensioned concrete bridges, pressure test each duct with compressed air after stressing. To pressure test the ducts: 07-19-13

1. Seal all inlets, outlets, and grout caps.
2. Open all inlets and outlets on adjacent ducts.
3. Attach an air compressor to an inlet at 1 end of the duct. The attachment must include a valve that separates the duct from the air source.
4. Attach a pressure gage to the inlet at the end of the duct.
5. Pressurize the duct to 50 psi.
6. Lock-off the air source.
7. Record the pressure loss after 1 minute.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

8. If there is a pressure loss exceeding 25 psi, repair the leaks with authorized methods and retest.

Compressed air used to clear and test the ducts must be clean, dry, and free of oil or contaminants.

50-1.01D(5) Duct Demonstration of Post-Tensioned Members

Before placing forms for deck slabs of box girder bridges, demonstrate that any prestressing steel placed in the ducts is free and unbonded. If no prestressing steel is in the ducts, demonstrate that the ducts are unobstructed.

If prestressing steel is installed after the concrete is placed, demonstrate that the ducts are free of water and debris immediately before installing the steel.

Before post-tensioning any member, demonstrate that the prestressing steel is free and unbonded in the duct.

The Engineer must witness all demonstrations.

50-1.01D(6) Void Investigation

In the presence of the Engineer, investigate the ducts for voids between 24 hours and 72 hours after grouting completion. As a minimum, inspect the inlet and outlet ports at the anchorages and at high points in the tendon

50-1.01D(7) Personnel Qualifications

Perform post-tensioning field activities, including grouting, under the direct supervision of a technician certified as a level 2 Bonded PT Field Specialist through the Post-Tensioning Institute. Grouting activities may be performed under the direct supervision of a technician certified as a Grouting Technician through the American Segmental Bridge Institute.

Replace the 6th paragraph of section 50-1.02B with:

07-19-13

Package the prestressing steel in containers or shipping forms that protect the steel against physical damage and corrosion during shipping and storage.

Replace the 13th paragraph of section 50-1.02B with:

07-19-13

Prestressing steel is rejected if surface rust either:

1. Cannot be removed by hand-cleaning with a fine steel wool pad
2. Leaves pits visible to the unaided eye after cleaning

Replace the 4th paragraph of section 50-1.02C with:

07-19-13

Admixtures must comply with section 90, except admixtures must not contain chloride ions in excess of 0.25 percent by weight.

07-19-13

Delete the 5th paragraphs of section 50-1.02C.

Add to section 50-1.02C:

07-19-13

Secondary grout must:

1. Comply with ASTM C 1107
2. Not have a deleterious effect on the steel, concrete, or bond strength of the steel to concrete

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Replace item 9 including items 9.1 and 9.2 in the list in the 1st paragraph of section 50-1.02D with:

- 07-19-13
9. Have an inside cross-sectional area of at least 2.5 times the net area of the prestressing steel for multistrand tendons

Replace "3/8" in item 10 in the list in the 1st paragraph of section 50-1.02D with:

07-19-13

1/2

Delete the 2nd sentences in the 1st paragraph of section 50-1.02E.

Replace section 50-1.02F with:

50-1.02F Permanent Grout Caps

Permanent grout caps for anchorage systems of post-tensioned tendons must:

1. Be glass-fiber-reinforced plastic with antioxidant additives. The environmental stress-cracking failure time must be at least 192 hours under ASTM D 1693, Condition C.
2. Completely cover and seal the wedge plate or anchorage head and all exposed metal parts of the anchorage against the bearing plate using neoprene O-ring seals.
3. Have a grout vent at the top of the cap.
4. Be bolted to the anchorage with stainless steel complying with ASTM F 593, alloy 316. All fasteners, including nuts and washers, must be alloy 316.
5. Be pressure rated at or above 150 psi.

Add to section 50-1.02:

50-1.02G Sheathing

Sheathing for debonding prestressing strand must:

1. Be split or un-split flexible polymer plastic tubing
2. Have a minimum wall thickness of 0.025 inch
3. Have an inside diameter exceeding the maximum outside diameter of the strand by 0.025 to 0.14 inch

Split sheathing must overlap at least 3/8 inch.

Waterproofing tape used to seal the ends of the sheathing must be flexible adhesive tape.

The sheathing and waterproof tape must not react with the concrete, coating, or steel.

Replace the 2nd paragraph of section 50-1.03A(3) with:

07-19-13

After installation, cover the duct ends and vents to prevent water or debris from entering.

Add to section 50-1.03A(3):

07-19-13

Support ducts vertically and horizontally during concrete placement at a spacing of at most 4 feet.

Delete "at least" in the 1st paragraph of section 50-1.03B(1).

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Add to section 50-1.03B(1):

After seating, the maximum tensile stress in the prestressing steel must not exceed 75 percent of the minimum ultimate tensile strength shown.

01-20-12

Delete the 1st through 4th paragraphs of section 50-1.03B(2)(a).

07-19-13

Replace "temporary tensile strength" in the 7th paragraph of section 50-1.03B(2)(a) with:

temporary tensile stress

07-19-13

Add to section 50-1.03B(2)(a):

If prestressing strand is installed using the push-through method, use guide caps at the front end of each strand to protect the duct from damage.

07-19-13

Add to the list in the 2nd paragraph of section 50-1.03B(2)(c):

3. Be equipped with permanent grout caps

07-19-13

Replace section 50-1.03B(2)(d) with:

50-1.03B(2)(d) Bonding and Grouting

07-19-13

50-1.03B(2)(d)(i) General

Bond the post-tensioned prestressing steel to the concrete by completely filling the entire void space between the duct and the prestressing steel with grout.

Ducts, vents, and grout caps must be clean and free from water and deleterious materials that would impair bonding of the grout or interfere with grouting procedures. Compressed air used for cleaning must be clean, dry, and free of oil or contaminants.

Prevent the leakage of grout through the anchorage assembly by positive mechanical means.

Before starting daily grouting activities, drain the pump system to remove any water from the piping system.

Break down and thoroughly clean the pump and piping system after each grouting session.

After completing duct grouting activities:

1. Abrasive blast clean and expose the aggregate of concrete surfaces where concrete is to be placed to cover and encase the anchorage assemblies
2. Remove the ends of vents 1 inch below the roadway surface

50-1.03B(2)(d)(ii) Mixing and Proportioning

Proportion solids by weight to an accuracy of 2 percent.

Proportion liquids by weight or volume to an accuracy of 1 percent.

Mix the grout as follows:

1. Add water to the mixer followed by the other ingredients.
2. Mix the grout with mechanical mixing equipment that produces a uniform and thoroughly

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- mixed grout without an excessive temperature increase or loss of properties of the mixture.
3. Do not exceed 5 gal of water per 94 lb of cement or the quantity of water in the manufacturer's instructions, whichever is less.
 4. Agitate the grout continuously until the grout is pumped. Do not add water after the initial mixing.

50-1.03B(2)(d)(iii) Placing

Pump grout into the duct within 30 minutes of the 1st addition of the mix components.

Inject grout from the lowest point of the duct in an uphill direction in 1 continuous operation maintaining a one-way flow of the grout. You may inject from the lowest anchorage if complete filling is ensured.

Before injecting grout, open all vents.

Continuously discharge grout from the vent to be closed. Do not close any vent until free water, visible slugs of grout, and entrapped air have been ejected and the consistency of the grout flowing from the vent is equivalent to the injected grout.

Pump the grout at a rate of 16 to 50 feet of duct per minute.

Conduct grouting at a pressure range of 10 to 50 psi measured at the grout inlet. Do not exceed maximum pumping pressure of 150 psi at the grout inlet.

As grout is injected, close the vents in sequence in the direction of flow starting with the closest vent.

Before closing the final vent at the grout cap, discharge at least 2 gal of grout into a clean receptacle.

Bleed all high point vents.

Lock a pressure of 5 psi into the duct by closing the grout inlet valve.

50-1.03B(2)(d)(iv) Weather Conditions

If hot weather conditions will contribute to quick stiffening of the grout, cool the grout by authorized methods as necessary to prevent blockages during pumping activities.

If freezing weather conditions are anticipated during and following the placement of grout, provide adequate means to protect the grout in the ducts from damage by freezing.

50-1.03B(2)(d)(v) Curing

During grouting and for a period of 24 hours after grouting, eliminate vibration from contractor controlled sources within 100 feet of the span in which grouting is taking place, including from moving vehicles, jackhammers, large compressors or generators, pile driving activities, soil compaction, and falsework removal. Do not vary loads on the span.

For PC concrete members, do not move or disturb the members after grouting for 24 hours. If ambient temperature drops below 50 degrees F, do not move or disturb the members for 48 hours.

Do not remove or open valves until grout has cured for at least 24 hours.

50-1.03B(2)(d)(vi) Grouting Equipment

Grouting equipment must be:

1. Capable of grouting at a pressure of at least 100 psi

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2. Equipped with a pressure gage having a full-scale reading of not more than 300 psi
3. Able to continuously grout the longest tendon on the project in less than 20 minutes

Grout must pass through a screen with clear openings of 1/16 inch or less before entering the pump.

Fit grout injection pipes, ejection pipes, and vents with positive mechanical shutoff valves capable of withstanding the pumping pressures. Do not remove or open valves until the grout has set. If authorized, you may substitute mechanical valves with suitable alternatives after demonstrating their effectiveness.

Provide a standby grout mixer and pump.

50-1.03B(2)(d)(vii) Grout Storage

Store grout in a dry environment.

50-1.03B(2)(d)(viii) Blockages

If the grouting pressure reaches 150 psi, close the inlet and pump the grout at the next vent that has just been or is ready to be closed as long as a one-way flow is maintained. Do not pump grout into a succeeding outlet from which grout has not yet flowed.

When complete grouting of the tendon cannot be achieved by the steps specified, stop the grouting operation.

50-1.03B(2)(d)(ix) Secondary Grouting

Perform secondary grouting by vacuum grouting under the direct supervision of a person who has been trained and has experience in the use of vacuum grouting equipment and procedures.

The vacuum grouting process must be able to determine the size of the void and measure the volume of grout filling the void.

Vacuum grouting equipment must consist of:

1. Volumeter for the measurement of void volume
2. Vacuum pump with capacity of at least 10 cfm and equipped with a flow meter capable of measuring the amount of grout being injected

50-1.03B(2)(d)(x) Vertical Tendon Grouting

Provide a standpipe at the upper end of the tendon to collect bleed water and allow it to be removed from the grout. The standpipe must be large enough to prevent the grout elevation from dropping below the highest point of the upper anchorage device. If the grout level drops to the highest point of the upper anchorage device, immediately add grout to the standpipe.

Remove the standpipe after the grout has hardened.

For vertical tendons in excess of 100 feet high or if grouting pressure exceeds 145 psi, inject grout at a higher vent from which grout has already flowed to maintain one-way flow.

50-1.03B(2)(d)(xi) Vents

Place vents at the following locations:

1. Anchorage areas at both ends of the tendon
2. Each high point
3. 4 feet upstream and downstream of each crest of a high point

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4. Each change in the cross section of duct

Add to section 50-1.03B(2):

09-16-11

50-1.03B(2)(e) Debonding Prestressing Strands

Where shown, debond prestressing strands by encasing the strands in plastic sheathing along the entire length shown and sealing the ends of the sheathing with waterproof tape.

Distribute the debonded strands symmetrically about the vertical centerline of the girder. The debonded lengths of pairs of strands must be equal.

Do not terminate debonding at any one cross section of the member for more than 40 percent of the debonded strands or 4 strands, whichever is greater.

Thoroughly seal the ends with waterproof tape to prevent the intrusion of water or cement paste before placing the concrete.

51 CONCRETE STRUCTURES

07-18-14

Replace the paragraphs of section 51-1.01A with:

10-19-12

Section 51-1 includes general specifications for constructing concrete structures.

Earthwork for the following concrete structures must comply with section 19-3:

1. Sound wall footings
2. Sound wall pile caps
3. Culverts
4. Barrier slabs
5. Junction structures
6. Minor structures
7. Pipe culvert headwalls, endwalls, and wingwalls for a pipe with a diameter of 5 feet or greater

Falsework must comply with section 48-2.

Joints must comply with section 51-2.

Elastomeric bearing pads must comply with section 51-3.

Reinforcement for the following concrete structures must comply with section 52:

1. Sound wall footings
2. Sound wall pile caps
3. Barrier slabs
4. Junction structures
5. Minor structures
6. PC concrete members

You may use RSC for a concrete structure only where the specifications allow the use of RSC.

Replace "sets" in the 1st paragraph of section 51-1.01C(2) with:

07-19-13

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CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Replace the 2nd paragraph of section 51-1.02B with:

07-19-13

Except for minor structures, the minimum required 28-day compressive strength for concrete in structures or portions of structures is the compressive strength described or 3,600 psi, whichever is greater.

Add to section 51-1.03C(2)(c)(i):

04-20-12

Permanent steel deck forms are only allowed where shown or if specified as an option in the special provisions.

Replace the 3rd paragraph of section 51-1.03C(2)(c)(ii) with:

04-20-12

Compute the physical design properties under AISI's *North American Specification for the Design of Cold-Formed Steel Structural Members*.

Replace the 8th paragraph of section 51-1.03D(1) with:

10-19-12

Except for concrete placed as pipe culvert headwalls and endwalls, slope paving and aprons, and concrete placed under water, consolidate concrete using high-frequency internal vibrators within 15 minutes of placing concrete in the forms. Do not attach vibrators to or hold them against forms or reinforcing steel. Do not displace reinforcement, ducts, or prestressing steel during vibrating.

Add to section 51-1.03E(5):

08-05-11

Drill the holes without damaging the adjacent concrete. If reinforcement is encountered during drilling before the specified depth is attained, notify the Engineer. Unless coring through the reinforcement is authorized, drill a new hole adjacent to the rejected hole to the depth shown.

Add to section 51-1.03F(5)(a):

04-19-13

For approach slabs, sleeper slabs, and other roadway surfaces of concrete structures, texture the roadway surface as specified for bridge deck surfaces in section 51-1.03F(5)(b).

Replace "Reserved" in section 51-1.03F(5)(b) with:

07-18-14

51-1.03F(5)(b)(i) General

Except for bridge widenings, texture roadway surfaces of bridge decks, approach slabs, and sleeper slabs, and other roadway surfaces of concrete structures longitudinally by grinding and grooving or by longitudinal tining.

For bridge widenings, texture the roadway surfaces longitudinally by longitudinal tining.

04-20-12

In freeze-thaw areas, do not texture PCC surfaces of bridge decks.

51-1.03F(5)(b)(ii) Grinding and Grooving

When texturing the deck surface by grinding and grooving, place a 1/4 inch of sacrificial concrete cover on the bridge deck above the finished grade shown. Place items to be embedded in the concrete based on the final profile grade elevations shown. Construct joint seals after completing the grinding and grooving.

Before grinding and grooving, deck surfaces must comply with the smoothness and deck crack treatment requirements.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Grind and groove the deck surface as follows:

1. Grind the surface to within 18 inches of the toe of the barrier under section 42-3. Grinding must not reduce the concrete cover on reinforcing steel to less than 1-3/4 inches.
2. Groove the ground surfaces longitudinally under section 42-2. The grooves must be parallel to the centerline.

51-1.03F(5)(b)(iii) Longitudinal Tining

When texturing the deck surface by longitudinal tining, perform initial texturing with a burlap drag or broom device that produces striations parallel to the centerline. Perform final texturing with spring steel tines that produce grooves parallel with the centerline.

The tines must:

1. Be rectangular in cross section
2. Be from 3/32 to 1/8 inch wide on 3/4-inch centers
3. Have enough length, thickness, and resilience to form grooves approximately 3/16 inch deep

Construct grooves to within 6 inches of the layout line of the concrete barrier toe. Grooves must be from 1/8 to 3/16 inch deep and 3/16 inch wide after concrete has hardened.

For irregular areas and areas inaccessible to the grooving machine, you may hand construct grooves. Hand-constructed grooves must comply with the specifications for machine-constructed grooves.

Tining must not cause tearing of the deck surface or visible separation of coarse aggregate at the surface.

Replace the paragraphs of section 51-1.04 with:

10-19-12

If concrete involved in bridge work is not designated by type and is not otherwise paid for under a separate bid item, the concrete is paid for as structural concrete, bridge.

The payment quantity for structural concrete includes the volume in the concrete occupied by bar reinforcing steel, structural steel, prestressing steel materials, and piling.

The payment quantity for seal course concrete is the actual volume of seal course concrete placed except the payment quantity must not exceed the volume of concrete contained between vertical planes 1 foot outside the neat lines of the seal course shown. The Department does not adjust the unit price for an increase or decrease in the seal course concrete quantity.

Structural concrete for pier columns is measured as follows:

1. Horizontal limits are vertical planes at the neat lines of the pier column shown.
2. Bottom limit is the bottom of the foundation excavation in the completed work.
3. Upper limit is the top of the pier column concrete shown.

The payment quantity for drill and bond dowel is determined from the number and depths of the holes shown.

Replace section 51-2.01B(2) with:

04-19-13

51-2.01B(2) Reserved

04-19-13

Delete the 4th paragraph of section 51-2.01C.

Replace "SSPC-QP 3" in the 1st paragraph of section 51-2.02A(2) with:

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

10-19-12

AISC-420-10/SSPC-QP 3

Replace the 2nd and 3rd paragraphs of section 51-2.02B(3)(b) with:

04-20-12

Concrete saws for cutting grooves in the concrete must have diamond blades with a minimum thickness of 3/16 inch. Cut both sides of the groove simultaneously for a minimum 1st pass depth of 2 inches. The completed groove must have:

1. Top width within 1/8 inch of the width shown or ordered
2. Bottom width not varying from the top width by more than 1/16 inch for each 2 inches of depth
3. Uniform width and depth

Cutting grooves in existing decks includes cutting any conflicting reinforcing steel.

Replace "sets" in the 1st and 2nd paragraphs of section 51-2.02D(1)(c)(ii) with:

04-19-13

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Replace "set" in the 7th paragraph of section 51-2.02D(1)(c)(ii) with:

04-19-13

copy

Add to the 1st paragraph of section 51-2.02D(3):

04-19-13

POC deck surfaces must comply with section 51-1.03F(6) before placing and anchoring joint seal assemblies.

Replace "sets" in the 2nd paragraph of section 51-2.02E(1)(c) with:

04-19-13

copies

Replace "set" in the 6th paragraph of section 51-2.02E(1)(c) with:

04-19-13

copy

Replace the 2nd paragraph of section 51-2.02E(1)(e) with:

08-05-11

Except for components in contact with the tires, the design loading must be the AASHTO LRFD Bridge Design Specifications Design Truck with 100 percent dynamic load allowance. Each component in contact with the tires must support a minimum of 80 percent of the AASHTO LRFD Bridge Design Specifications Design Truck with 100 percent dynamic load allowance. The tire contact area must be 10 inches measured normal to the longitudinal assembly axis by 20 inches wide. The assembly must provide a smooth-riding joint without slapping of components or tire rumble.

Replace "sets" in the 1st and 2nd paragraphs of section 51-2.02F(1)(c) with:

04-19-13

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Add between the 1st and 2nd paragraphs of section 51-4.01A:

10-19-12

Prestressing concrete members must comply with section 50.

04-20-12

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Delete the 2nd paragraph of section 51-4.01A.

Replace the 3rd paragraph of section 51-4.01C(2) with:

04-20-12

For segmental or spliced-girder construction, shop drawings must include the following additional information:

1. Details showing construction joints or closure joints
2. Arrangement of bar reinforcing steel, prestressing tendons, and pressure-grouting pipe
3. Materials and methods for making closures
4. Construction joint keys and surface treatment
5. Other requested information

For segmental girder construction, shop drawings must include concrete form and casting details.

Replace "sets" in the 1st paragraph of section 51-4.01C(3) with:

04-19-13

copies

10-19-12

Delete the 1st and 2nd paragraphs of section 51-4.02A.

Replace the 3rd paragraph of section 51-4.02B(2) with:

04-20-12

For segmental or spliced-girder construction, materials for construction joints or closure joints at exterior girders must match the color and texture of the adjoining concrete.

Add to section 51-4.02B(2):

04-20-12

At spliced-girder closure joints:

1. If shear keys are not shown, the vertical surfaces of the girder segment ends must be given a coarse texture as specified for the top surface of PC members.
2. Post-tensioning ducts must extend out of the vertical surface of the girder segment closure end sufficiently to facilitate splicing of the duct.

For spliced girders, pretension strand extending from the closure end of the girder segment to be embedded in the closure joint must be free of mortar, oil, dirt, excessive mill scale and scabby rust, and other coatings that would destroy or reduce the bond.

Add to section 51-4.03B:

04-20-12

The specifications for prestressing force distribution and sequencing of stressing in the post-tensioning activity in 50-1.03B(2)(a) do not apply if post-tensioning of spliced girders before starting deck construction is described. The composite deck-girder structure must be post-tensioned in a subsequent stage.

Temporary spliced-girder supports must comply with the specifications for falsework in section 48-2.

Before post-tensioning of spliced girders, remove the forms at CIP concrete closures and intermediate diaphragms to allow inspection for concrete consolidation.

Add to section 51-5.01A:

07-19-13

Structure excavation and backfill must comply with section 19-3.

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Treated permeable base must comply with section 29.

Replace the paragraph in section 51-5.02G with:

HMA for a temporary roadway structural section must comply with the specifications for minor HMA in section 39. 04-18-14

Delete the 1st paragraph of section 51-5.03B(3). 07-19-13

Delete the 2nd paragraph of section 51-5.03D(1). 07-19-13

Add between the 1st and 2nd paragraphs of section 51-7.01A:

Minor structures include: 10-19-12

1. Pipe culvert headwalls and endwalls for a pipe with a diameter less than 5 feet
2. Drainage inlets
3. Other structures described as minor structures

Delete the 4th paragraph of section 51-7.01A. 10-19-12

Replace the 1st and 2nd paragraphs of section 51-7.01B with:

Concrete must comply with the specifications for minor concrete. 10-19-12

Add to section 51:

51-8-51-15 RESERVED 10-19-12

52 REINFORCEMENT

07-18-14

Add to section 52-1.01A:

Splicing of bar reinforcement must comply with section 52-6. 07-20-12

Replace the 1st and 2nd paragraphs of section 52-1.02B with:

Reinforcing bars must be deformed bars complying with ASTM A 706/A 706M, Grade 60, except you may use: 10-19-12

1. Deformed bars complying with ASTM A 615/A 615M, Grade 60, in:
 - 1.1. Junction structures
 - 1.2. Sign and signal foundations
 - 1.3. Minor structures
 - 1.4. Concrete crib members
 - 1.5. Mechanically-stabilized-embankment concrete panels
 - 1.6. Masonry block sound walls
2. Deformed or plain bars complying with ASTM A 615/A 615M, Grade 40 or 60, in:
 - 2.1. Slope and channel paving
 - 2.2. Concrete barriers Type 50 and 60
3. Plain bars for spiral or hoop reinforcement in structures and concrete piles

Add to the list in the 3rd paragraph of section 52-1.02B:

04-20-12

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

9. Shear reinforcement stirrups in PC girders

Replace the 9th paragraph of section 52-1.03D with:

07-18-14

Terminate each unit of spiral reinforcement at both ends by lapping the spiral reinforcement on itself for at least 80 diameters followed by (1) a 135-degree hook with a 6-inch tail hooked around an intersecting longitudinal bar or (2) a mechanical lap splice coupler. Discontinuities in spiral reinforcement may be made only where shown or authorized. The spiral on each side of a discontinuity or a lap splice is a separate unit. Where discontinuities in spiral reinforcement are not allowed, splice the spiral reinforcement. Lap splices in spiral reinforcement must be lapped at least 80 diameters followed by (1) a 135-degree hook with a 6-inch tail hooked around an intersecting longitudinal bar or (2) a mechanical lap splice coupler.

Add to section 52-5.01D:

07-18-14

52-5.01D(4) Quality Assurance Testing

Secure, identify, and transport QA headed bar reinforcement test samples to METS as specified for splice test samples in section 52-5.01D(3)(b).

The Department tests headed bar reinforcement as specified for QC testing in section 52-5.01D(3)(b).

The Department will notify you of the QA test results for each bundle of 4 test samples of splices within 3 business days after METS receives the bundle unless more than 1 bundle is received on the same day, in which case allow 2 additional business days for each additional bundle received.

Replace the 6th paragraph of section 52-6.01D(4)(a) with:

01-18-13

Before performing service splice or ultimate butt splice testing, perform total slip testing on the service splice or ultimate butt splice test samples under section 52-6.01D(4)(b).

Replace section 52-6.02D with:

10-21-11

52-6.02D Ultimate Butt Splice Requirements

When tested under California Test 670, ultimate butt splice test samples must demonstrate necking as either of the following:

1. For "Necking (Option I)," the test sample must rupture in the reinforcing bar outside of the affected zone and show visible necking.
2. For "Necking (Option II)," the largest measured strain must be at least:
 - 2.1. Six percent for no. 11 and larger bars
 - 2.2. Nine percent for no. 10 and smaller bars

Replace the 2nd and 3rd paragraphs of section 52-6.03B with:

01-18-13

Do not splice the following by lapping:

1. No. 14 bars
2. No. 18 bars
3. Hoops
4. Reinforcing bars where you cannot provide a minimum clear distance of 2 inches between the splice and the nearest adjacent bar

53 SHOTCRETE

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

07-19-13

Replace the 2nd and 3rd paragraphs of section 53-2.01D(1) with:

07-19-13

Obtain and test all cores for compressive strength under ASTM C 42/C 42M at an authorized laboratory. The compressive strength is the average strength of the 3 cores.

Shotcrete must have a minimum compressive strength of 3,600 psi, unless otherwise described. The shotcrete must attain the minimum compressive strength at 28 days, except 42 days are allowed for shotcrete with a described minimum compressive strength greater than 3,600 psi.

75 MISCELLANEOUS METAL

07-19-13

Add between 2nd and 3rd paragraphs of section 75-1.03A:

07-19-13

Fabricate expansion joint armor from steel plates, angles, or other structural shapes. Shape the armor to the section of the concrete deck and match-mark it in the shop. Straighten warped sections of expansion joint armor before placing. Secure the expansion joint armor in the correct position during concrete placement.

83 RAILINGS AND BARRIERS

1

Add between 2nd and 3rd paragraphs of section 75-1.03A:

07-19-13

Fabricate expansion joint armor from steel plates, angles, or other structural shapes

DIVISION X MATERIALS

88 GEOSYNTHETICS

07-19-13

Add to section 88-1.01C:

07-19-13

Geosynthetics must be on the DataMine list for geotextiles and geosynthetics at the National Transportation Product Evaluation Program Web site. The product name, manufacturing source, and date of manufacture must be printed every 5 meters along the edge of the material.

Exceptions are:

1. Paving mat
2. Paving grid, Class 2 and 3
3. Biaxial geogrid

Replace the row for hydraulic bursting strength in the table in the 2nd paragraph of section 88-1.02B with:

10-19-12

Puncture strength, lb min	ASTM D 6241	310
Trapezoid tearing strength, lb min	ASTM D 4533	56

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Replace the 3rd paragraph in section 88-1.02C with:

10-19-12

Geocomposite wall drain must be from 0.25 to 2 inches thick.

Replace the value for permittivity of woven fabric in the table in the 1st paragraph of section 88-1.02E with:

01-20-12

0.05

Replace the value for apparent size opening of nonwoven fabric in the table in the 1st paragraph of section 88-1.02E with:

01-20-12

0.012

Replace the table in the 1st paragraph of section 88-1.02G with:

01-20-12

Sediment Filter Bag

Property	Test	Values	
		Woven	Nonwoven
Grab breaking load, lb, 1-inch grip min, in each direction	ASTM D 4632	200	250
Apparent elongation, percent min, in each direction	ASTM D 4632	10	50
Water flow rate, gal per minute/sq ft min and max average roll value	ASTM D 4491	100-200	75-200
Permittivity, sec ⁻¹ min	ASTM D 4491	1.0	1.0
Apparent opening size, inches max average roll value	ASTM D 4751	0.023	0.012
Ultraviolet resistance, % min retained grab breaking load, 500 hr.	ASTM D 4355	70	70

Replace the table in the 1st paragraph of section 88-1.02H with:

01-20-12

Temporary Cover

Property	Test	Values	
		Woven	Nonwoven
Grab breaking load, lb, 1-inch grip min, in each direction	ASTM D 4632	200	200
Apparent elongation, percent min, in each direction	ASTM D 4632	15	50
Water flow rate, gal per minute/sq ft min and max average roll value	ASTM D 4491	4-10	80-120
Permittivity, sec ⁻¹ min	ASTM D 4491	0.05	1.0
Apparent opening size, inches max average roll value	ASTM D 4751	0.023	0.012
Ultraviolet resistance, % min retained grab breaking load, 500 hr.	ASTM D 4355	70	70

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Replace section 88-1.02P with:

01-18-13

88-1.02P Biaxial Geogrid

Geosynthetics used for biaxial geogrid must be a punched and drawn polypropylene material formed into an integrally formed biaxial grid. When tested under the referenced test methods, properties of biaxial geogrid must have the values shown in the following table:

Biaxial Geogrid		
Property	Test	Value
Aperture size, inch ^a min and max	Calipered	0.8-1.3 x 1.0-1.6
Rib thickness, inch min	Calipered	0.04
Junction thickness, inch min	Calipered	0.150
Tensile strength, 2% strain, lb/ft ^a min	ASTM D 6637	410 x 620
Tensile strength at ultimate, lb/ft ^a min	ASTM D 6637	1,310 x 1,970
Ultraviolet resistance, percent min retained tensile strength, 500 hours	ASTM D 4355	100
Junction strength, lb/ft ^a min	ASTM D 7737	1,220 x 1,830
Overall flexural rigidity, mg-cm min	ASTM D 7748	750,000
Torsional rigidity at 20 cm-kg, mm-kg/deg ^b min	GRI:GG9	0.65

^aMachine direction x cross direction

^bGeosynthetic Research Institute, Test Method GG9, *Torsional Behavior of Bidirectional Geogrids When Subjected to In-Plane Rotation*

Replace section 88-1.02Q with:

07-19-13

88-1.02Q Geosynthetic Bond Breaker

Geosynthetic bond breaker must be nonwoven; needle punched; not heat treated; polypropylene, polyethylene material.

When tested under the referenced test methods, properties of geosynthetic bond breaker material must have the values shown in the following table:

Geosynthetic Bond Breaker		
Property	Test	Value
Mass per unit area, oz/sq yd min	ASTM D 5261	14.7
Thickness at 29 psi, mm min	ASTM D 5199	1.0
Tensile strength at ultimate, lbs/ft min	ASTM D 4595	685
Elongation, percent max	ASTM D 4595	130
Permittivity at 2.9 psi, m/s min	ASTM D 5493	0.0001

CALTRANS REVISED STANDARD SPECIFICATIONS (1-95)

Hydraulic transmissivity at 29 psi, m/s min	ASTM D 6574	0.0002
Ultraviolet resistance, percent min retained grab breaking load, 500 hours	ASTM D 4355	60

90 CONCRETE

07-19-13

Replace the 3rd paragraph of section 90-1.01C(7) with:

08-05-11

Submit weighmaster certificates in printed form or, if authorized, in electronic media. Present electronic media in a tab-delimited format on a CD or DVD. Captured data for the ingredients represented by each batch must be line feed carriage return and one line separate record with sufficient fields for the specified data.

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 30% 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.

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

7. For products for which an AML is available, products listed in the AML shall be used. A submittal review will be conducted for products not identified on an AML on a case-by-case basis when:
 - a) The product type or category is not in the AML.
 - b) The AML does not list at least two available manufacturers of the product.
 - c) The material or manufacturer listed in the AML is no longer available. Documentation to substantiate the product is no longer available or in production is required as part of the submittal.

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

The Product Submittal Form is available for download at:

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

2-9.1 Permanent Survey Markers. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Pursuant to Division 3, Chapter 15 of the Business and Professions Code, the Contractor shall not disturb survey monuments that “control the location of subdivisions, tracts, boundaries, roads, streets, or highways, or provide horizontal or vertical survey control” until they have been tied out by a Registered Land Surveyor or Registered Civil Engineer authorized to practice land surveying within the State of California.

Monument Preservation will be performed by City Public Works Field Engineering Division (PW-FED) Field Survey Section on all Projects, unless permission is obtained for these services in writing by PW-FED.

The Contractor shall submit to the Engineer a minimum of 7 Days prior to the start of the Work a list of controlling survey monuments which may be disturbed. The Agency (or the owner on a Private Contract) will:

- a) set survey points outside the affected work area that reference and locate each controlling survey monument that may be disturbed,
- b) file a Corner Record or Record of Survey with the County Surveyor after setting the survey points to be used for re-establishment of the disturbed controlling survey monuments, and
- c) file a Corner Record of Record of Survey with the County Surveyor after re-establishment of the disturbed controlling survey monuments.

2-14.2 Integration of the Work with Separate Contractors. To the City Supplement, ADD the following:

The list of Separate Contractors includes:

1. Burtech Pipeline, Inc.

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

Other adjacent City project(s) is (are) scheduled for construction for the same time period in the vicinity of the Seismic Retrofit and Rehabilitation of the Georgia Street Bridge. Coordinate the Work with the adjacent project(s) as listed below:

- a) University Avenue Pipeline Replacement, Project Manager: Mike Bajoua (619) 533-4628, Construction Supervising Engineer: Clemens Wassenberg (858) 495-7872

SECTION 4 - CONTROL OF MATERIALS

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

1. Welding Inspector

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

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

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

You must submit your list of proposed substitutions for “an equal” (“or equal”) item(s) **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on the City’s Product Submittal Form available at.

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

4-1.10 Foreign Materials. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

1. Materials that are manufactured, produced, or fabricated outside of the United States shall be delivered to a distribution point in California, unless otherwise specified. Quality Control and related testing shall be performed to all applicable specified US standards. Manufacturer’s testing and staff certification shall be traceable to a United States regulatory agency. Retain the materials for a sufficient period of time to permit inspection, sampling, and testing. You shall not be entitled to an extension of time for acts or events occurring outside of, at point of entry, or during transport to the United States.

SECTION 5 – UTILITIES

5-2 PROTECTION. ADD the following:

1. You shall repair or replace traffic signal and lighting system equipment within 72 hours after notification of defects by the Engineer.
2. While working in or around meter boxes, you shall protect in place all Advanced Metering Infrastructure (AMI) devices attached to the water meter or located in or near water meter boxes, coffins, or vaults. This includes any antenna installed through the meter box lid.
 - a) Avoid damaging the antenna, cable, and endpoints when removing the meter box lid and when disconnecting AMI endpoints from the register on top of the water meter.
 - b) If meters or AMI devices need to be removed or relocated, the AMI endpoints shall be reinstalled with the Encoder/Receiver/Transmitter (ERT) pointing upwards.
 - c) Because the AMI equipment is uniquely matched to each service location and to specific meter serial numbers, any AMI devices that are removed or disconnected shall be reinstalled on the same service lateral as well as to the same meter serial number it was attached to originally.

- d) Do not change or modify the lid if the lid has an antenna drilled through it.
- e) If you encounter damaged, disconnected, buried, or broken AMI endpoints, cables between the registers, antennae, lids, or ERTs, notify the Engineer within 24 hours.
- f) Any AMI equipment damaged by you shall be repaired or replaced by City Forces at your expense.

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

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

- 5. For Water projects where shutdowns of 16 inch and larger pipes are required, there is a shutdown moratorium from May until October. Contractor shall plan and schedule work accordingly. No additional payment or working days will be granted for delays due to this moratorium.
- 6. 30 Working days for full depth asphalt final mill and resurfacing work required per SDG-107.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

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

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

7-3.1 Policies and Procedures.

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

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

7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

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

<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.

7-3.2.5 Contractors Builders Risk Property Insurance..

1. You must provide at its expense, and maintain until Final Acceptance of the Work, a Special Form Builders Risk Policy or Policies. This insurance must

be in an amount equal to the replacement cost of the completed Work (without deduction for depreciation) including the cost of excavations, grading, and filling. The policy or policies limits must be 100% of this contract value of the Work plus 15% to cover administrative costs, design costs, and the costs of inspections and construction management.

2. Insured property must include material or portions of the Work located away from the Site but intended for use at the Site, and must cover material or portions of the Work in transit. The policy or policies must include as insured property scaffolding, falsework, and temporary buildings located at the Site. The policy or policies must cover the cost of removing debris, including demolition.
3. The policy or policies must provide that all proceeds thereunder must be payable to the City as Trustee for the insured, and must name the City, the Contractor, Subcontractors, and Suppliers of all tiers as named insured. We as Trustee will collect, adjust, and receive all monies which may become due and payable under the policy or policies, may compromise any and all claims thereunder, and will apply the proceeds of such insurance to the repair, reconstruction, or replacement of the Work.
4. Any deductible applicable to the insurance must be identified in the policy or policies documents and responsibility for paying the part of any loss not covered because of the application of such deductibles must be apportioned among the parties except for the City as follows: if there is more than one claimant for a single occurrence, then each claimant must pay a pro-rata share of the per occurrence deductible based upon the percentage of their paid claim to the total paid for insured. The City must be entitled to 100% of its loss. The Contractor must pay the City any portion of that loss not covered because of a deductible, at the same time the proceeds of the insurance are paid to the City as trustee.
5. Any insured, other than the City, making claim to which a deductible applies must be responsible for 100% of the loss not insured because of the deductible. Except as provided for under California law, the policy or policies must provide that the City is entitled to 30 days prior written notice (10 days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

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

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

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

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

7-3.5 Policy Endorsements.

7-3.5.1 Commercial General Liability Insurance.

7-3.5.1.1 Additional Insured.

- a) You must provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
- b) To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
- c) The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you.
- d) The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, or (c) premises owned, leased, controlled, or used by you.

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

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

7-3.5.2 Commercial Automobile Liability Insurance.

7-3.5.2.1 Additional Insured. Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy must be endorsed

to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

7-3.5.5 Builders Risk Endorsements.

7-3.5.5.1 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.

7-3.5.5.2 Builders Risk – Partial Utilization. If the City desire to occupy or use a portion or portions of the Work prior to Acceptance in accordance with this contract, the City will notify you and you must immediately notify your Builder's Risk insurer and obtain an endorsement that the policy or policies must not be cancelled or lapse on account of any such partial use or occupancy. You must obtain the endorsement prior to our occupation and use.

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.

7-10.1.1 General. ADD the following:

14. During construction activities noise abatement procedures in accordance with the City Noise ordinance (SDMC 59.5.040) must be used. Noise permit applications are issued by Neighborhood code compliance. Noise curtains or other mitigation measures may be necessary to comply with the City Noise Ordinance.
15. Payment for Noise Permit and Noise permit processing will be paid as part of the Traffic Control bid item

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.

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

ADD:

7-16 COMMUNITY OUTREACH.

7-16.1 General.

1. To ensure consistency with the City's community outreach plan for the project, the City shall work with you to inform the public (which includes, but shall not be limited to, property owners, renters, homeowners, business owners, recreational users, and other community members and stakeholders) of construction impacts. Your efforts to mitigate construction impacts by communicating with the public require close coordination and cooperation with the City.
2. You shall perform the community outreach activities required throughout the Contract Time. You shall assign a staff member who shall perform the required community outreach services.
3. You shall closely coordinate the Work with the businesses, institutions, residents, and property owners impacted by the Project.
4. Your example duties include notifying businesses, institutions, and residents of the commencement of construction activities not less than 5 Days in advance, coordinating access for vehicular and pedestrian traffic to businesses, institutions, and residences impacted by the Project, reporting activities at all Project progress meetings scheduled by the Engineer, attending the Project Pre-construction meeting, attending 2 community meetings, responding to community questions and complaints related to your activities, and documenting, in writing, as well as logging in all inquiries and complaints received into the City's internal public contact tracking system.
5. You shall execute the Information Security Policy (ISP) Acknowledgement Form - For Non-City Employees within 15 Days of the award of the Contract if any of the following apply:
 - a) Your contact information is made available on any outreach materials.
 - b) You will be the primary point of contact to resolve project related inquiries and complaints.
6. Electronic Communication.
 - a) All inquiries and complaints shall be logged in to the City's internal public contact tracking system within 24 hours of receipt of inquiries and complaints.
 - b) Any updates or a resolution of inquiries and complaints shall be documented in the City's internal public contact tracking system within 24 hours.
 - c) Copies of email communications shall be saved individually on to the City's internal public contact tracking system in an Outlook Message Format (*.msg).
 - d) All graphics, photos, and other electronic files associated with inquiries and/or complaints shall be saved into the individual records, located within the City's internal public contact tracking system.

7-16.1.1 Quality Assurance.

1. During the course of community outreach, you shall ensure that the character of all persons that conduct community outreach (distributing door hangers, attending community meetings, interacting with the public, and etc.) on your behalf shall:
 - a. Have the ability to speak and comprehend English and/or Spanish, as appropriate for the community or public they are informing.
 - b. Possess and display easily verifiable and readable personal identification that identifies the person as your employee.
 - c. Have the interpersonal skills to effectively, professionally, and tactfully represent you, the project, and the City to the public.

7-16.1.2 Submittals.

1. You shall submit to the Resident Engineer, for review and approval, all drafts of letters, notices, postcards, door hangers, signs, mailing lists, proposed addresses for hand-delivery, and any other notices and letters that are to be mailed and or distributed to the public.
 - a. Prior to distributing or mailing, you shall submit final drafts of letters, notices, postcards, door hangers, signs, and any other notices and letters to the Resident Engineer for final review and approval. Submit a PDF copy of the approved door hangers to the Engineer.
 - b. After distributing or mailing, you shall submit verification of delivery and any copies of returned notices to the Resident Engineer. Submit a PDF copy of the approved letters and notices to the Engineer.
2. You shall use the City's internal public contact tracking system to identify and summarize communications (via phone, in person, and email) with the public within 24 hours of receipt, even if your response to the individual is still incomplete. You shall upload to the City's internal public contact tracking system copies of all written, electronic, and verbal communications and conversations with the public.

7-16.2 Community Outreach Services.

7-16.2.1 Public Notice by Contractor.

1. Post Project Identification Signs in accordance with 7-10.6.2, "Project Identification Sign".
2. Notify businesses, institutions, property owners, residents or any other impacted stakeholders, within a minimum 300 feet (90 m) radius of the Project, of construction activities and utility service interruptions not less than 5 Days in advance.

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

7-16.2.3 Communications with Media.

1. The City may allow members of the media access to its construction site(s) on a case-by-case basis only.
2. Occasionally, uninvited members of the media may show up at construction Sites. Members of the media (including, but not limited to newspapers, magazines, radios, television, bloggers, and videographers) do not have the legal right to be in the construction Site without the City's permission.
3. In the event that media representatives arrive near or on the construction Site(s), you shall keep them off the Site(s) in a courteous and professional manner until a Public Information Officer is available to meet them at an approved location.
4. You shall report all visits from members of the media to the Resident Engineer as quickly as possible so that the City's Public Information Officer can meet with the members of the media at the construction Site(s).
5. If the City allows members of the media to access a construction Site, you shall allow the City to escort the media representatives while they are on the construction Site and shall ensure their safety.
6. You shall require media representatives to sign in and out of the Site Visitor Log and to use personal protective equipment.
7. You have a right to speak to members of the media about your company and its role on the project. All other questions shall be referred to the City.

7-16.4 Payment.

1. The payment for the community outreach services shall be included in the Contract Price.

7-20 ELECTRONIC COMMUNICATION. ADD the following:

Virtual Project Manager will be used on this contract.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

8-2 FIELD OFFICE FACILITIES. To the City Supplement, ADD the following.

Provide a Class "A" Field Office.

8-2.1.1 Field Office Features and Equipment. To the City Supplement, REMOVE the following:

3. **Furnish** and distribute public notices in the form of door hangers using the City's format to all occupants and/or property owners along streets:
 - a. Where Work is to be performed at least 5 Days before starting construction or survey activities or impacting the community as approved by the Resident Engineer.
 - b. Within 5 Days of the completion of your construction activities where Work was performed, you shall distribute public notices in the form of door hangers, which outlines the anticipated dates of Asphalt Resurfacing or Slurry Seal.
 - c. No less than 48 hours in advance and no more than 72 hours in advance of the scheduled resurfacing.
4. Leave the door hanger notices on or at the front door of each dwelling and apartment unit and at each tenant of commercial buildings abutting each of the street block segments. Where the front doors of apartment units are inaccessible, distribute the door hanger notices to the apartment manager or security officer.
5. **Door Hanger Material:** You shall use Blanks/USA brand, Item Number DHJ5B6WH, 1¼ inch (31.8 mm) Holes (removed), 2-up Jumbo Door Hanger in Bristol White, or approved equal.
6. **Mailed Notice Material:** You shall use Cougar by Domtar, Item Number 2834, or approved equal.
7. For all Work on private property, contact each owner and occupant individually a minimum of 15 Days prior to the Work. If the Work has been delayed, re-notify owners and occupants of the new Work schedule, as directed by the Resident Engineer.
8. A sample of public notices is included in the Contract Appendix.

7-16.2.2

Communications with the Public.

1. Coordinate access for vehicular and pedestrian traffic to businesses, institutions, and residences impacted by the Project.
2. You shall provide updates on construction impacts to the Resident Engineer. You shall notify the Resident Engineer in advance about time-sensitive construction impacts and may be required to distribute construction impact notices to the public on short notice.
3. You shall incorporate community outreach activities related to construction impacts in the baseline schedule and update the Resident Engineer with each week's submittal of the Three-Week Look Ahead Schedule.
4. At the request of the Resident Engineer, you shall attend and participate in project briefings at community meetings.

6. Provide 1 portable chemical toilet located nearby, but separately from the field office trailer

8-2.1.1 Field Office Features and Equipment. To the City Supplement, ADD the following:

6. Provide internal sanitary facilities
7. Provide four parking spaces (minimum)

8-2.1.2 Furnishings. To the City Supplement, REMOVE the following:

11. One Telephone line with voice messaging, caller ID, and conference call capabilities.
12. One non-coin operated cordless telephone with a 50' range capability.
15. One Computer Workstation complete with standard peripherals and printer and scanner per the City's IT standards.

8-2.1.2 Furnishings. To the City Supplement, ADD the following:

11. Wireless access point with connection to the High Speed Internet Line per the City's IT standards.
12. Wireless color printer/scanner capable of 11x17 printing and scanning. Include all labor and parts including travel and consumable supplies excluding paper. Provide appropriate storage cabinet or stand with the printer/scanner.

SECTION 9 - MEASUREMENT AND PAYMENT

9-3 PAYMENT. ADD the following:

1. Bid items designated with Type "F" in the Line Items are subject to the Caltrans Standard Specifications 9-1.15, "Final Pay Items" and City of San Diego "Whitebook" Specification 9-3.2.
2. Bid items with payment references designated with (CT) are subject to Caltrans Specifications.

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. To the City Supplement, subsection c), item 2, DELETE in its entirety and SUBSTITUTE with the following:

- 2) In the event of an overrun of Contract time, adjustment in compensation for asphalt binder included in estimates during the overrun period shall be determined using the California Statewide Crude Oil Price Index in effect on the first business day of the month within the pay period in which the overrun began.

ADD the following:

- e) This Contract is not subject to the provisions of The WHITEBOOK for Compensation Adjustments for Price Index Fluctuations for the paving asphalt.

SECTION 209 – STREET LIGHTING AND TRAFFIC SIGNAL MATERIALS

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 3'8") including, but not limited to, soil, pavement (Asphalt Concrete, Base, concrete, Unclassified Materials), curb and gutter, sidewalk, buried trolley tracks, 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.

Clearing and grubbing shall also include the removal and disposal of all miscellaneous materials: Buried pavements and other materials, old subsurface pavements and other materials encountered under existing pavements, which are within designated excavation areas on the plans.

The work includes demolition and removal (unclassified demolition) of all materials and facilities indicated or specified. Do not begin demolition until authorization is received from the Engineer. Remove rubbish and debris daily, unless otherwise directed. Store materials that cannot be removed daily in areas approved by the Engineer.

Existing Condition. All existing streets have a varying thickness of asphalt concrete pavement over a varying thickness of concrete pavement and an unknown thickness of base material.

In addition to the above items, clearing and grubbing shall include, but not be limited to the following items as shown on the plans or specified in these Special Provisions.

1. Providing continuous pedestrian and vehicular access along the roadway within the project area, and as directed by the Engineer.
2. Sawcutting of concrete and asphalt concrete at joints and construction limits.
3. Protection of existing and relocated utility structures prior to and during construction of proposed improvements. Coordination with SDG&E and AT&T for conduit relocations and vault adjustments

300-1.4 Payment. To the City Supplement, DELETE the first five paragraphs in this section and ADD the following:

1. 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, buried trolley tracks, median, 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.
2. Payment for existing pavement removal and disposal of up to 15" thick, within the excavation e.g., trench limits, shall be included in the Bid item for installation of the mains or the Work item that requires pavement removal. Payment for the removal of AC pavement on the bridge is included in the Bid item.

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.

302-5.2.1 Measurement and Payment. To the City Supplement, item c), ADD the following:
Imported Subgrade material shall be paid per bid item "Imported Backfill".

SECTION 307 – STREET LIGHTING AND TRAFFIC SIGNAL SYSTEMS

307-2 PAYMENT. ADD the following:

The contract lump sum price paid for the street lighting electrical system shall include the entire electrical assembly including, but not necessarily limited to, street lights, poles, pedestrian push button poles, decorative lighting fixtures, bridge mounted lighting fixtures, temporary lighting, luminaries, arms, footings, conduit, conductors, pull boxes, splices, trenching through concrete or asphalt, sawcutting,

backfill, patching, sidewalk and curb replacement, all grounding per NEC, replacement of traffic signal detector loops, repainting of damaged traffic striping, coordination with SDG&E for service points, connection to SDG&E facilities, and other work as required by the drawings and specifications for a complete system and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for doing all the work as shown on the plans, as specified in the Standard Specifications and these Special Provisions and as directed by the Engineer. No additional compensation will be allowed. If needed, an SDG&E service order will be provided to the Contractor. Payment for the new power service shall be paid by the contractor out of the SDG&E Service Order Fee allowance.

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

314-4 APPLICATION OF TRAFFIC STRIPING AND CURB AND PAVEMENT MARKINGS.

314-4.3.7 Payment. DELETE in its entirety and SUBSTITUTE with the following:

The placement and removal of conflicting striping, painted lines, markings, pavement marker and signage with new posts, including but not limited to recording the limits of each type of pavement marker and all control points necessary to re-establish the striping and pavement markings to match the existing striping and pavement markings, in their original locations or as shown on the Plans shall be included in the Contract lump sum price for Signage, Striping and Pavement Markings.

314-4.6 Payment. DELETE in its entirety and SUBSTITUTE with the following:

Painting traffic stripes, pavement markings, reflectors, raised reflective pavement markings including curb markings, curb painting, thermoplastic arrows, thermoplastic crosswalks, striping, and symbols and the removal of all existing stripes and markings in conflict with the proposed striping Plan, if needed, or otherwise called out for removal, signage, and temporary striping, complete in place in accordance with the Plans, the Standard Specifications, and as directed by the Engineer shall be included in the Contract lump sum price for thermoplastic striping, crosswalk, arrows and marking.

SECTION 703 – ENCOUNTERING OR RELEASING HAZARDOUS SUBSTANCES

703-20 Payment. To the City Supplement, item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. The payment for waste management shall be included in the applicable Bid items as follows:
 - a) “Preparation of Hazardous Waste Management Plan and Reporting” (LS).
 - b) “Monitoring of Contaminated Soil” (HR).

- c) “Testing, Sampling, Site Storage, and Handling of Soils Containing RCRA Hazardous Waste” (TON).
- d) “Loading, Transportation, and Disposal of soils containing RCRA Hazardous Waste” (TON).
- e) “Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil” (TON).
- f) “Loading, Transportation, and Disposal of Petroleum Contaminated Soil” (TON).
- g) “Testing, Sampling, Site Storage, and Handling of Soils Containing Non-RCRA Hazardous Waste” (TON).
- h) “Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste” (TON).
- i) Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized RCRA Hazardous Waste” (55 Gal DRUMS).
- j) “Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized Non-RCRA Hazardous Waste” (55 Gal DRUMS).
- k) “Testing, Sampling, Site Storage, Handling, Transportation, and Recycling/Disposal of Universal Waste” (EACH).
- l) “Testing, Sampling, Site Storage, Handling, Transportation, and Recycling/Disposal of Regulated Waste” (TON).
- m) “Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of RCRA Hazardous Waste Contamination from the Treatment of Contaminated Ground Water” (GAL).
- n) “Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Non-RCRA Hazardous Waste Contamination from the Treatment of Contaminated Ground Water” (GAL).

SECTION 705 – WATER DISCHARGES

- 705-2.6.1** **General.** Paragraph (3), CORRECT reference to Section 803 to read “Section 703.”
- 705-2.6.3** **Community Health and Safety Plan.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:
- 705-2.6.3** **Community Health and Safety Plan.** See 703-2, “Community Health and Safety Plan.”

SECTION 707 – RESOURCE DISCOVERIES

ADD:

707-1.1 Environmental Document. The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a **Final Mitigated Negative Declaration (MND) for the Georgia Street Bridge Rehabilitation Project**, as referenced in the Contract Appendix. You must comply with all requirements of the Final Mitigated Negative Declaration (MND) as set forth in the Contract Appendix C.

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

707-2 ARCHEOLOGICAL AND NATIVE AMERICAN MONITORING PROGRAM.
To the City Supplement, ADD the following:

The City will retain a qualified archaeologist or historic architect for this contract specifically for the removal of the trolley tracks underneath University Ave. The Contractor shall coordinate its activities and Schedule with the activities and schedules of the archaeologist monitor. Notify the Engineer before noon of the working day before monitoring is required. See 2-11, “INSPECTION” for details.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

SUPPLEMENTARY SPECIAL PROVISIONS

APPENDICES

APPENDIX A
STANDARDS PLANS LIST

STANDARD PLANS LIST

The standard plan sheets applicable to this Contract include, but are not limited to those listed below. The applicable revised standard plans (RSPs) listed below are included in the project plans.

ABBREVIATIONS, LINES, SYMBOLS AND LEGEND

A10A	Abbreviations (Sheet 1 of 2)
RSP A10B	Abbreviations (Sheet 2 of 2)
A10C	Lines and Symbols (Sheet 1 of 3)
A10D	Lines and Symbols (Sheet 2 of 3)
A10E	Lines and Symbols (Sheet 3 of 3)

PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS

A20A	Pavement Markers and Traffic Lines, Typical Details
A20B	Pavement Markers and Traffic Lines, Typical Details
RSP A20C	Pavement Markers and Traffic Lines, Typical Details
A20D	Pavement Markers and Traffic Lines, Typical Details
RSP A24A	Pavement Markings - Arrows
A24B	Pavement Markings - Arrows and Symbols
RSP A24C	Pavement Markings - Symbols and Numerals
A24D	Pavement Markings - Words
RSP A24E	Pavement Markings - Words, Limit and Yield Lines
RSP A24F	Pavement Markings - Crosswalks

EXCAVATION AND BACKFILL

A62B	Limits of Payment for Excavation and Backfill - Bridge Surcharge and Wall
A62C	Limits of Payment for Excavation and Backfill - Bridge
A73C	Delineators, Channelizers and Barricades

TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN

T1A	Temporary Crash Cushion, Sand Filled (Unidirectional)
T1B	Temporary Crash Cushion, Sand Filled (Bidirectional)
T2	Temporary Crash Cushion, Sand Filled (Shoulder Installations)
T3A	Temporary Railing (Type K)
T3B	Temporary Railing (Type K)

ROADSIDE SIGNS

RS1	Roadside Signs, Typical Installation Details No. 1
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RS2	Roadside Signs - Wood Post, Typical Installation Details No. 2
RS4	Roadside Signs, Typical Installation Details No. 4
S89	Roadside Sign - Formed Single Sheet Aluminum Panel
S93	Framing Details for Framed Single Sheet Aluminum Signs, Rectangular Shape
S94	Roadside Framed Single Sheet Aluminum Signs, Rectangular Shape
S95	Roadside Single Sheet Aluminum Signs, Diamond Shape
RSP ES-1A	Electrical Systems (Legend and Abbreviations)
RSP ES-1B	Electrical Systems (Legend and Abbreviations)
RSP ES-1C	Electrical Systems (Legend and Abbreviations)
ES-2A	Electrical Systems (Service Equipment)
ES-2B	Electrical Systems (Service Equipment, Type II Series)
ES-2C	Electrical Systems (Service Equipment Notes, Type III Series)
ES-7N	Electrical Systems (Signal and Lighting Standard - Detail No. 2)
RSP ES-8A	Electrical Systems (Non-Traffic Pull Box)
RSP ES-8B	Electrical Systems (Traffic Pull Box)
ES-9E	Electrical Systems (Flush Soffit, Pendant soffit and Wall Luminaire, Structure Installations)

ELECTRICAL SYSTEMS - SPLICING, FUSE RATING, KINKING AND BANDING DETAILS

ES-13A	Electrical Systems (Splicing Details)
ES-13B	Electrical Systems (Fuse Rating, Kinking and Banding Detail)

APPENDIX B
CANCELED STANDARD PLANS LIST

CANCELED STANDARD PLANS LIST

The standard plan sheets listed below are canceled and not applicable to this contract.

B3-1	Canceled on April 20, 2012
B3-2	Canceled on April 20, 2012
B3-3	Canceled on April 20, 2012
B3-4	Canceled on April 20, 2012
B3-7	Canceled on April 20, 2012
B3-8	Canceled on April 20, 2012
ES-8	Canceled on January 20, 2012
ES-10	Canceled on July 20, 2012

APPENDIX C
FINAL MITIGATED NEGATIVE DECLARATION



ADVANCED PLANNING &
ENGINEERING DIVISION
(619) 446-5460

FINAL MITIGATED NEGATIVE DECLARATION

Project No. 263173
SCH No. N/A

SUBJECT: GEORGIA STREET BRIDGE REHABILITATION PROJECT: MAYOR APPROVAL to allow for the seismic retrofit of an existing bridge and associated abutments and retaining walls. The existing bridge is located on Georgia Street and crosses over University Avenue. Bridge abutments and retaining walls associated with the bridge are located on both sides of University Avenue (See Figure 2) to allow University Avenue to pass beneath the bridge. The bridge, abutments, and retaining walls are located between Florida Street, to the east, and Park Boulevard, to the west. The retaining walls extend approximately 330 feet to the east and west of the bridge. The bridge, abutments, and retaining walls were constructed in 1914, and are listed on the National Register of Historic Places as well as being designated by the City of San Diego, Historical Resources Board on September 24, 1998 as HRB Site #325.

Rehabilitation of the bridge would involve replacing the deck and supporting spandrels; the existing arch supporting the columns would remain, but be rehabilitated. The deck and spandrels would be replaced in-kind to recreate the original bridge structure and appearance. The abutments and retaining walls would be stabilized by inserting soil nails and ground anchors through the existing walls to anchor them to the soil behind the wall. The walls would be faced with up to nine inches of concrete which would include the original arch arcades and pilaster features imprinted into the walls. Overall, the bridge and retaining wall rehabilitation work has been designed to recreate the historic appearance of these structures, and avoid an adverse impact on this historic feature. In order to differentiate the new walls from the where the original sidewalk existed, the shear wall would be recessed, and the retaining walls would be scored to identify the portions of the walls which extend below the historic sidewalk elevation. All rehabilitation would be done consistent with the Secretary of Interior Standards.

In addition to rehabilitation of the bridge and retaining walls, a portion of University Avenue beneath the bridge would be lowered. The existing pavement would be lowered by as much as two and a half feet beneath the bridge and taper out to the east and west.

The lowering is required to meet vertical clearance requirements for vehicles travelling on University Avenue. This site is not included on any Government Code listing of hazardous waste sites. Applicant: City of San Diego, Public Works Department-Engineering and Capital Projects, Right of Way Design Division.

Update 02/01/13:

Minor revisions have been made to the Final Mitigated Negative Declaration (MND) which is shown in underline format. This minor revision has been made to include a notification requirement in the event that historic trolley tracks within University Avenue are encountered during construction-related activities. This revision can be found in the Historical Resources section of this MND and does not necessarily constitute new mitigation, but merely clarifies the extent of resources that could be covered by this program. It was always assumed that the trolley tracks could be encountered, and an unanticipated discovery of this nature would still have been covered by the monitoring program already in place. In accordance with California Environmental Quality Act (CEQA) Section 15073.5 (c)(4), the addition of new information that clarifies, amplifies, or makes insignificant modification does not require recirculation as there are no new impacts and no new mitigation identified. An environmental document need only be recirculated when there is identification of new significant environmental impact or the addition of a new mitigation measure required to avoid a significant environmental impact.

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

The City of San Diego conducted an Initial Study which determined that the proposed project could have a significant environmental effect related to: **Historical Resources (Architectural)**. The project requires implementation of specific mitigation identified in Section V of this Mitigated Negative Declaration (MND) to reduce potential cultural and noise impacts to below a level of significance. With implementation of these measures the project avoids or mitigates the potentially significant environmental effects identified, and the preparation of an Environmental Impact Report (EIR) would not be required.

IV. DOCUMENTATION:

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

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

A. GENERAL REQUIREMENTS – PART I

Plan Check Phase (prior to permit issuance)

- 1. Prior to Bid Opening/Bid Award or beginning any construction related activity on-site, the Development Services Department (DSD) Director's Environmental Designee (ED)

shall review and approve all Construction Documents (CD) (plans, specification, details, etc.) to ensure the MMRP requirements have been incorporated.

2. In addition, the ED shall verify that the MMRP Conditions/Notes that apply ONLY to the construction phases of this project are included VERBATIM, under the heading, “ENVIRONMENTAL/MITIGATION REQUIREMENTS.”
3. These notes must be shown within the first three (3) sheets of the construction documents in the format specified for engineering construction document templates as shown on the City website:

<http://www.sandiego.gov/development-services/industry/standtemp.shtml>

4. The **TITLE INDEX SHEET** must also show on which pages the “Environmental/Mitigation Requirements” notes are provided.

B. GENERAL REQUIREMENTS – PART II

Post Plan Check (After permit issuance/Prior to start of construction)

1. **PRE CONSTRUCTION MEETING IS REQUIRED TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.** The PERMIT HOLDER/OWNER is responsible to arrange and perform this meeting by contacting the CITY RESIDENT ENGINEER (RE) of the Field Engineering Division and City staff from MITIGATION MONITORING COORDINATION (MMC). Attendees must also include the Permit holder’s Representative(s), Job Site Superintendent and a qualified historic architect.

Note: Failure of all responsible Permit Holder’s representatives and technical specialists to attend shall require an additional meeting with all parties present.

CONTACT INFORMATION:

- a) The PRIMARY POINT OF CONTACT is the RE at the **Field Engineering Division 858-627-3200**
- b) For Clarification of ENVIRONMENTAL REQUIREMENTS, it is also required to call **RE and MMC at 858-627-3360**

2. **MMRP COMPLIANCE:** This Project, Project Tracking System (PTS) No. 263173 shall conform to the mitigation requirements contained in the associated Environmental Document and implemented to the satisfaction of the DSD’s ED, MMC and the City Engineer (RE). The requirements may not be reduced or changed but may be annotated (i.e. to explain when and how compliance is being met and location of verifying proof, etc.). Additional clarifying information may also be added to other relevant plan sheets and/or specifications as appropriate (i.e., specific locations, times of monitoring, methodology, etc)

Note: Permit Holder's Representatives must alert RE and MMC if there are any discrepancies in the plans or notes, or any changes due to field conditions. All conflicts must be approved by RE and MMC BEFORE the work is performed.

3. **OTHER AGENCY REQUIREMENTS:** Evidence that any other agency requirements or permits have been obtained or are in process shall be submitted to the RE and MMC for review and acceptance prior to the beginning of work or within one week of the Permit Holder obtaining documentation of those permits or requirements. Evidence shall include copies of permits, letters of resolution or other documentation issued by the responsible agency.
4. **MONITORING EXHIBITS:** The historic architect shall submit to RE and MMC, a monitoring exhibit on a 11x17 reduction of the appropriate construction plan, such as site plan, grading, landscape, etc., marked to clearly show the specific areas including the **LIMIT OF WORK**, scope of that discipline's work, and notes indicating when in the construction schedule that work will be performed. When necessary for clarification, a detailed methodology of how the work will be performed shall be included.
5. **OTHER SUBMITTALS AND INSPECTIONS:** The Permit Holder/Owner's representative shall submit all required documentation, verification letters, and requests for all associated inspections to the RE and MMC for approval per the following schedule:

Document Submittal/Inspection Checklist

<i>Issue Area</i>	<i>Document submittal</i>	<i>Associated Inspection/Approvals/Note</i>
General	Consultant Qualification Letters	Prior to Pre-construction Meeting
General	Consultant Const. Monitoring	Prior to or at Pre-Construction Mtg
Historical	Historical Monitoring Reports	Historical observation
Final MMRP		Final MMRP Inspection

SPECIFIC MMRP ISSUE AREA CONDITIONS/REQUIREMENTS:

HISTORICAL RESOURCES (ARCHITECTURAL - BUILT ENVIRONMENT)

Prior to initiating rehabilitation work, the following actions shall be taken:

Prior to Permit Issuance or Bid Opening/Bid Award

A. Citywide Construction Plan Check

1. Prior to permit issuance or Bid Opening/Bid Award, whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Historical Monitoring during demolition, stabilization and/or rehabilitation have been noted on the applicable construction documents through the plan check process.
 - (a) Work can not begin until a Precon Meeting has been held at least one week prior to issuance of appropriate permits and/or Notice to Proceed.

- (b) Physical description, including the year and type of historical resource, and extent of rehabilitation shall be noted on the plans.
- B. Letters of Qualification have been submitted to ADD
1. Prior to Bid Award, the applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the historical monitoring program, as defined in the City of San Diego Historical Resources Guidelines (HRG). If applicable, individuals involved in the historical monitoring program must have completed the 40-hour HAZWOPER training with certification documentation.
 2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the historical monitoring of the project meet the qualifications established in the HRG.
 3. Prior to the start of work, the applicant must obtain written approval from MMC for any personnel changes associated with the monitoring program.
- C. Submittal of Treatment Plan for Historical Resources and Documentation Program
1. Prior to Notice to Proceed (NTP) for any construction permits, including but not limited to, the first Grading Permit and Building Permits, but prior to the first Precon Meeting, whichever is applicable, the Applicant shall submit a Treatment Plan to City Staff (DSD) for review and approval in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties (1995) and the associated Guidelines. The Treatment Plan shall include measures for protecting any historical resources, as defined in the Land Development Code, during construction related activities (e.g. removal of non-historic features, demolition of adjacent structures, subsurface structural support, etc.). The Treatment Plan shall be shown as notes on all construction documents (i.e. Grading and/or Building Plans).
 2. Prior to the first Precon Meeting and/or issuance of any construction permit or Notice to Proceed, the applicant shall provide verification to the ADD Environmental designee that the Historic American Building Survey (HABS) documentation has been completed in accordance with Caltrans and FHWA requirements. This verification can be provided in the form of a letter with Caltrans authorization to proceed.
 - (a). The Historical PI shall also provide verification that one set of measured drawings have been submitted for archival storage with the City of San Diego Historical Resources Board Site File, the California Room of the City of San Diego Public Library, the San Diego History Center and/or other historical society or group(s). This documentation can be provided in an electronic format acceptable to each entity noted above.

Prior to Start of Construction

- A. PI Shall Attend Pre-construction Meetings
1. Prior to beginning any work that requires monitoring; the Applicant shall arrange a Pre-construction Meeting that shall include the Historical PI, Historical Monitor(s), and/or Architectural Historian, the Construction Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The PI shall attend any construction-related pre-construction meetings to make comments and/or suggestions concerning the historical monitoring program with the Maintenance Manager and/or Construction Contractor.

- a. If the PI is unable to attend the Pre-construction Meeting, the Applicant shall schedule a focused Pre-construction Meeting with MMC, the PI, RE, MM or BI, if appropriate, prior to the start of any work that requires monitoring.
2. Identify Areas to be Monitored
 - a. Prior to the start of any work that requires monitoring, the PI shall submit a Historical Monitoring Exhibit (HME) based on the appropriate construction documents (reduced to 11x17) to MMC identifying the areas to be monitored including the delineation of construction limits.
 - b. MMC shall notify the PI that the HME has been approved.
3. When Monitoring Will Occur
 - a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.
 - b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This request shall be based on relevant information such as review of final construction documents.
4. Approval of HME
After approval of the HME by MMC, the PI shall submit to MMC written authorization of the HME from MMC.

During Construction

A. Monitor Shall be Present During Demolition.

1. The Historical Monitor(s) shall be present at the frequency and duration specified in the approved historical monitoring exhibit. **The Construction Manager (CM) is responsible for notifying the RE, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the HME.**
2. The Historical Monitor(s) shall document field activity via the Consultant Site Visit Record (CSV). The CSV's shall be faxed or emailed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion**). The RE shall forward copies to MMC.

B. Notification Process

1. In the event of damage to the historical resource not assumed to be impacted by the project or that construction is not occurring pursuant to the proposed plans, and/or in the event that historic trolley tracks are encountered during construction-related activities within University Avenue, the Historical Monitor shall direct the contractor to temporarily divert construction activities in the area of historical resource and immediately notify the RE or BI, as appropriate, and the PI (unless Monitor is the PI).
2. The Monitor shall immediately notify the PI (unless Historical Monitor is the PI) of the potential impact.
3. The PI shall immediately notify MMC by phone of the potential impact, and shall also submit written documentation to MMC within 24 hours by email.

C. Determination/Evaluation of Impacts to a Historical Resource

1. The PI/Historical Monitor shall evaluate the incident relative to the historical resource and coordinate with MMC to determine the importance of the unanticipated impact to a historic feature, or deviation from the approved construction plans and/or to indicate

that the unanticipated discovery shall be documented on the appropriate State of California DPR form in accordance with City procedures.

- (a) The PI shall immediately notify City Staff by phone to discuss the incident and shall also submit a letter to City Staff indicating whether additional mitigation is required.
 - (b) If impacts to the historical resource are significant, the PI shall submit a proposal to MMC for review and written approval by HRB staff in accordance with Chapter 14, Article 3, Division 2, Historical Resources Regulations of the Land Development Code and the Secretary of the Interior's Standards for the Treatment of Historic Properties (1995) and the associated Guidelines. Direct and/or indirect impacts to historical resources from construction activities must be mitigated before work will be allowed to resume.
 - (c) If impacts to the historical resource are not considered significant, the PI shall submit a letter to MMC indicating that the incident will be documented in the Final Monitoring Report. The letter shall also indicate that that no further work is required.
2. The construction activities in question shall not resume until the PI/Historical Monitor and MMC have determined the appropriate course of action and whether additional mitigation is required.

Night Work and/or Weekend Work

- A. If night and/or weekend work is included in the contract
 1. When night and/or weekend work is included in the contract package, the extent and timing shall be presented and discussed at the Precon Meeting.
 2. The following procedures shall be followed.
 - (a) No Impacts/Incidents
In the event that no historical resources were impacted during night and/or weekend work, the PI shall record the information on the CSVR and submit to MMC by 8am of the next business day.
 - (b) Potentially Significant Impacts
If the PI determines that a potentially significant impact has occurred to a historical resource, the procedures detailed under Section III - During Construction shall be followed.
 - (c) The PI shall immediately contact MMC, or by 8 am of the next business day to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.
- B. If night and/or weekend work becomes necessary during the course of construction
 1. The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
 2. The RE, or BI, as appropriate, shall notify MMC immediately.
- C. All other procedures described above shall apply, as appropriate.

Post Construction

A. Submittal of Draft Monitoring Report

1. The PI shall submit two copies of the Draft Monitoring Report, prepared in accordance with the Historical Resources Guidelines (Appendix C/D) which describes the results, analysis, and conclusions of the Historical Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90 days following the completion of monitoring. **It should be noted that if the PI is unable to submit the Draft Monitoring Report within the allotted 90-day timeframe as a result of delays with analysis, special study results or other complex issues, a schedule shall be submitted to MMC establishing agreed due dates and the provision for submittal of monthly status reports until this measure can be met.**
2. The PI shall submit revised Draft Monitoring Report to MMC via the RE for approval.
3. MMC shall provide written verification to the PI of the approved report.
4. MMC shall notify the RE or BI, as appropriate, of receipt of all Draft Monitoring Report submittals and approvals.

B. Final Monitoring Report(s)

1. The PI shall submit one copy of the approved Final Monitoring Report to the RE or BI as appropriate, and one copy to MMC, within 90 days after notification from MMC of the approved report.
2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC.

VI. PUBLIC REVIEW DISTRIBUTION:

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

State of California
Caltrans (31)
California Regional Water Quality Control Board (44)
City of San Diego
Council President Todd Gloria, CD 3
City Attorney
Shannon Thomas
Development Services Department
Myra Herrmann
Helene Deisher
Cathy Winterrowd
Jodie Brown
Historical Resources Board (87)
Public Works Department-Engineering and Capital Projects
Mark Giandoni
Brad Johnson
Kerry Santoro
Public Utilities Department
Mehdi Rastakhiz
Leonard Wilson
Library Dept.-Gov. Documents MS 17 (81)

North Park Branch Library (81H)
 Environmental Services Department
 Lisa Wood
 Fire & Life Safety (MS 603)

Other Groups and Individuals

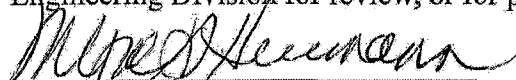
North Park Planning Committee (363)
 North Park Community Association (366)
 Uptown Planning Committee (498)
 Hillcrest History Guild
 North Park Historical Society
 University Heights Historical Society
 Alex Bevil, Historian
 San Diego Gas and Electric (114)
 Metropolitan Transit System (115)
 San Diego Natural History Museum (166)
 Carmen Lucas (206)
 South Coastal Information Center @ San Diego State University (210)
 San Diego History Center (211)
 San Diego Archaeological Center (212)
 Save Our Heritage Organization (214)
 Clint Linton (215B)
 Ron Christman (215)
 Louie Guassac (215A)
 Frank Brown - Inter-Tribal Cultural Resource Council (216)
 Campo Band of Mission Indians (217)
 San Diego County Archaeological Society (218)
 Kumeyaay Cultural Heritage Preservation (223)
 Kumeyaay Cultural Repatriation Committee (225)
 Native American Distribution (225 A-S) **Public Notice and Location Map Only**
 Barona Group of Capitan Grande Band of Mission Indians (225A)
 Campo Band of Mission Indians (225B)
 Ewiiapaayp Band of Mission Indians (225C)
 Inaja Band of Mission Indians (225D)
 Jamul Indian Village (225E)
 La Posta Band of Mission Indians (225F)
 Manzanita Band of Mission Indians (225G)
 Sycuan Band of Mission Indians (225H)
 Viejas Group of Capitan Grande Band of Mission Indians (225I)
 Mesa Grande Band of Mission Indians (225J)
 San Pasqual Band of Mission Indians (225K)
 Ipai Nation of Santa Ysabel (225L)
 La Jolla Band of Mission Indians (225M)
 Pala Band of Mission Indians (225N)
 Pauma Band of Mission Indians (225O)
 Pechanga Band of Mission Indians (225P)
 Rincon Band of Luiseno Indians (225Q)

San Luis Rey Band of Luiseno Indians (225R)
Los Coyotes Band of Mission Indians (225S)

VII. RESULTS OF PUBLIC REVIEW:

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

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



Myra Herrmann, Senior Planner
Development Services Department

January 4, 2013
Date of Draft Report

Analyst: Herrmann

February 1, 2013
Date of Final Report

Attachments:

Initial Study Checklist
Figure 1 – Vicinity Map
Figure 2 – Location Map
Figures 3, 4, 5 - Site Plan

RINCON BAND OF LUISEÑO INDIANS

Culture Committee

Post Office Box 68 · Valley Center, California 92082 ·
(760) 297-2622 or (760) 297-2635 & Fax: (760) 297-2639



RESPONSE TO COMMENTS

RINCON BAND OF LUISEÑO INDIANS (JANUARY 10, 2012)

January 10, 2013

The City of San Diego
Development Services Department
1222 First Avenue, MS 501
San Diego, CA 92101

Subject: Georgia Street Bridge Improvements

Dear Myra Herrmann,

This letter is written on behalf of the Rincon Band of Luiseño Indians. Thank you for inviting us to submit comments on the Georgia Street Bridge Improvements. Rincon is submitting these comments concerning your Project's potential impact on Luiseño cultural resources.

The Rincon Band has concerns for impacts to historic and cultural resources and findings of significant cultural value that could be disturbed or destroyed and are considered culturally significant to the Luiseño people. This is to inform you, your identified location is not within the Luiseño Aboriginal Territory. In fact, your project falls within the boundaries of the Kumeyaay Aboriginal Territory. We recommend that you locate a Tribe within the project area to receive direction on how to handle any inadvertent findings according to their traditions and customs. Also, we recommend a Native American Monitor be present during any and all ground disturbances.

If you would like information on Tribes within your project area, please contact the Native American Heritage Commission and they will assist with a referral. If for some reason you are unable to locate an interested tribe please notify us and we will be happy to assist you in the matter. We also request you update your contact information for Rincon and send any future letters and correspondence to the Rincon Tribal Chairman and the Tribal Historic Preservation Officer in the Cultural Resource Center, Post Office Box 68, Valley Center, CA 92082 (760) 297-2635.

Thank you for this opportunity to protect and preserve our cultural assets.

Sincerely,

Rose Durio
Rincon Culture Committee Chairman

Bo Mazzetti
Tribal Chairman

Stephanie Spencer
Vice Chairwoman

Steve Stallings
Council Member

Laurie E. Gonzalez
Council Member

Frank Mazzetti III
Council Member

A-1 Comment noted. All culturally affiliated tribal groups in the San Diego County area and other members of the Native American community (as noted on the MND distribution list) were sent a copy of the public notice for the draft MND with the cultural resources report in accordance with the provisions of CEQA, the City's General Plan, and the Land Development Code, CEQA Implementation Procedures. At the close of public review, with the exception of this letter no other comments were received from San Diego County Native American groups or individuals during this public review period.



San Diego County Archaeological Society, Inc.

Environmental Review Committee

10 January 2013

To: Ms. Myra Herrmann
Development Services Department
City of San Diego
1222 First Avenue, Mail Station 501
San Diego, California 92101

Subject: Draft Mitigated Negative Declaration
Georgia Street Bridge Improvements
Project No. 263173

Dear Ms. Herrmann:

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

Based on the information contained in the DMND, initial study Historical Resource Technical Report and archaeological survey report, we have the following comments:

- B-1
1. The project includes lowering the elevation of a portion of University Avenue under the bridge by as much as 2.5 feet. The Historical Resource Technical Report indicates that the road surface is currently approximately 7 inches above the historic elevation. Does the City know whether the trolley rails were removed at some time? If is known or suspected that they may still be present, their removal needs to be addressed in the DMND and its supporting documents, as they would clearly be directly associated with the historical resource and the reason it was constructed.
 2. One unaddressed question is not an issue regarding impact analysis and mitigation for the project, but may warrant mention. The Historical Resource Technical Report and the National Register form for the resource focus on the role of University Avenue as creating a major access route to the East San Diego area. That is, of course, correct, but it leaves unaddressed the question why, in 1912, Georgia Street was important enough that the City constructed the bridge rather than leaving a gap in Georgia Street. Today, Georgia Street is not a major thoroughfare and many other city streets were segmented by small canyons without having been bridged. Perhaps the bridge's real purpose was to provide support for the two walls of the cut? Or was there some other aspect of Georgia Street that compelled the City to provide a bridge?
- B-2

P.O. Box 81106 San Diego, CA 92138-1106 (858) 538-0935

RESPONSE TO COMMENTS

SAN DIEGO COUNTY ARCHAEOLOGICAL SOCIETY (DECEMBER 29, 2012)

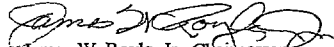
B-1 According to the soils investigation for the project, the trolley tracks within University Avenue exist under approximately seven (7) inches of pavement below the Georgia Street Bridge. As such, although the tracks in this location have been substantially altered, at the time that the tracks are encountered during constructed-related activities within University Avenue, the historical monitor will document the resource in-place on the appropriate DPR form prior to their removal in accordance with City procedures as indicated in the Historical Resources monitoring program within the MND. This information has been added to the Initial Study checklist and the requirement for documentation has been added to the historical monitoring program in the MND.

B-2 According to information provided by Alexander Bevil who prepared the National Register nomination form, Georgia Street was never a major thoroughfare. Rather, it was necessary to erect a wooden trestle bridge so as not to create two dead ends, thereby further separating the neighborhood along the ridgeline. Mr. Bevil pointed out further that as stated in the National Register nomination, the current bridge's primary purpose is to serve as a wedge (so to speak) keeping the gap from collapsing onto University Avenue.

RESPONSE TO COMMENTS

Thank you for including SDCAS in the public review of this project's environmental documents.

Sincerely,


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

cc: IS Architecture
Tierra Environmental
SDCAS President
File

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P.O. Box 81106 • San Diego, CA 92138-1106 • (619) 538-0935

Herrmann, Myra

From: Mark Vitti [avitti1@cox.net]
Sent: Wednesday, January 16, 2013 2:59 PM
To: DSD EAS
Cc: info@hillcresttowncouncil.com
Subject: bridge that goes across University Avenue

C-1

I am a resident of Uptown District. I do believe that the retrofit would be a good idea. It's a pretty unique bridge in San Diego and the retrofit just seems like a smart idea. Anthony Mark Vitti P.O. Box 3722 San Diego, CA 92163

RESPONSE TO COMMENTS

MARK VITTI (JANUARY 16, 2013)

C-1 Comment noted.

Herrmann, Myra

From: Robert Bettinger [robertbettinger@yahoo.com]
Sent: Wednesday, January 16, 2013 11:09 AM
To: DSD EAS
Cc: info@hilcresttowncouncil.net
Subject: Georgia Street Bridge Retrofit

D-1
I am pleased that the Georgia St Bridge will be retrofitted and updated and do appreciate that it is a Historical Landmark.

I do feel the bridge retrofit is long overdue. Should it necessitate some modification to ensure safety and relevance to our times, I would be comfortable to have all needs considered and acted on.

RESPONSE TO COMMENTS
ROBERT BETTINGER (JANUARY 16, 2013)

D-1 Comment noted.

Herrmann, Myra

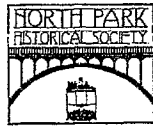
From: or [dennisppal@aol.com]
Sent: Wednesday, January 16, 2013 11:06 AM
To: DSD EAS
Subject: BRIDGE ON UNIVERSITY AND GEORGIA

E-1
THE BRIDGE IS AN EYESORE IT NEEDS TO BE PAINTED AND KEPT UP....MURALS PAINTED OR SOMETHING APPEALING--WHEN YOU DRIVE THREW UNDER IT --ITS LIKE A GRAY BLOB READY TO SWALLOW YOU!!!!

RESPONSE TO COMMENTS

DENNISPPAL@AOL.COM (JANUARY 16, 2013)

- E-1** The project will result in a more historical façade of the designated Georgia Street Bridge. Painting a mural on a designated historical resource would be inconsistent with the Secretary of the Interior Standards for this reason. The new color will be in keeping with the warm tan of the original historic fabric



North Park Historical Society
 2226 Dwight Street San Diego, CA 92104
 (619) 294-8990 info@northparkhistory.org

RESPONSE TO COMMENTS
 NORTH PARK HISTORICAL SOCIETY (JANUARY 23, 2013)

January 23, 2013

Myra Hermann, Environmental Planner
 City of San Diego Development Services Center
 1222 First Avenue, MS 501
 San Diego, CA 92101

Subject: Georgia Street Bridge Improvements, Project No. 263173

Dear Ms. Hermann:

F-1 The North Park Historical Society (NPHS) is an all-volunteer 501c3 non-profit organization that advocates for historic preservation in the North Park community. We strongly support the preservation and restoration of the Georgia Street Bridge above University Avenue in the Greater North Park Community Planning Area.

F-2 We would like to express our appreciation to historian Alex Bevil, the University Heights Historical Society, and all other community history advocates who worked together in the 1990s to protect the bridge from demolition and to achieve listing of the bridge, abutments, and retaining walls on the National Register of Historic Places. We are also grateful to Caltrans and City staff and their consultants who developed the seismic retrofit alternative for rehabilitation consistent with the Secretary of Interior Standards. The bridge, built in 1914, is not just a symbol of North Park, but the actual reason North Park was able to develop in the early 1900s by opening University Avenue for the trolley to be extended eastward beyond Hillcrest. Though we regret that so much of the structure will have to be replaced, we celebrate the eventual restoration consistent with its original appearance.

Based on our review of the Draft Mitigated Negative Declaration (MND) for the Georgia Street Bridge Improvements Project, we are supportive of the project, especially the plans to maintain the large arches of the bridge and provide railings that better reflect the historic bridge design. We are also supportive of the planned reconstruction of the retaining walls to better reflect their original appearance. We have the following comments on the analysis and conclusions of the environmental document:

- F-3
1. The Draft MND states that implementation of the Traffic Management Plan (TMP) during construction would "assure safe, convenient access is maintained to residences and businesses served by Georgia Street Bridge and University Avenue." However, the TMP presents only very general public awareness measures that may not reach the individuals and businesses that could be most affected by construction conditions. In order to prevent the kind of community upset and delays that occurred recently during construction of the University Avenue median improvements at Alabama Street, we recommend that stronger and more site-specific pre-construction notification measures be added to the TMP, including requirements for contacting individual businesses along

F-1 Comment noted.

F-2 Comment noted.

F-3 The City of San Diego's Public Information Office will assist with the public outreach efforts to ensure that the residents, commuters, adjacent businesses and MTS will be notified in advance of construction and during construction and provided details concerning closures, detours and expected durations. Notices will be posted for MTS riders with information discussing the duration of the impacts and where alternative bus stops are available.

F-4 Pedestrian access will be temporarily impacted during the different phases of construction. It is expected that the frontage roads and at least one of the existing pedestrian walkways will be open to pedestrians during construction. None of the existing pedestrian walkways are fully ADA compliant since University Avenue is constructed on a relatively steep slope. Alternative pedestrian routes are shown on the Georgia Street Bridge Traffic Management Plan and these alternative routes of travel will be identified with signage and maps during the construction phases. Temporary interruption of the pedestrian route is consistent with ADA § 35.133, which does not prohibit isolated or temporary interruptions in service or access due to maintenance or repairs.

With respect to the request for an evaluation of whether the steep frontage routes are usable, these are an example of existing streets in the City of San Diego which have steep slopes, many of which are based on the topography or constraints present when they were developed. The ADA law recognizes that, because of terrain, sidewalks will have to sometimes follow the grade of the streets. It therefore allows the construction or maintenance of steep sidewalks even though in many cases those sidewalks are challenging for the wheel user.

F-3

University Avenue east of Park Boulevard, coordinating with local schools whose students use this corridor, and posting detailed notices about the project at the bus stops in the vicinity along Park Boulevard and University Avenue.

F-4

2. Because pedestrian access for the elderly and others with mobility disabilities may be severely affected during certain construction stages, final design for the project should include evaluation of the actual usability of the steep frontage paths parallel to University Avenue for such users, especially for wheelchair access. Based on final design and staging, a pre-construction TMP should provide additional details on what constitutes "adequate pedestrian access and walkways" to validate the conclusions in MND Section XVI (Transportation/Traffic) that impacts to pedestrian access would be less than significant.

Thank you for providing this environmental document to our organization for review. We also appreciate receiving the supporting technical studies promptly upon our request. Please contact me if you have any questions.

Sincerely,



Stephen Hon
President, North Park Historical Society

c: Kerry Santoro, City of San Diego
Todd Gloria, Councilmember, District 3
Kristin Harms, University Heights Historical Society
Vicki Granowitz, North Park Planning Committee

RESPONSE TO COMMENTS

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RESPONSE TO COMMENTS
DONALD FALERIS (JANUARY 25, 2013)

Herrmann, Myra

From: DWF [dfaleris@earthlink.net]
Sent: Friday, January 25, 2013 12:43 AM
To: DSD EAS
Cc: info@hillcresttowncouncil.com
Subject: Georgia Street Bridge Project - Hillcrest/Bridge Area Resident Comments

Dear Sir or Madam

I live in a condo located at 1820 University, one of 4 condos that are on University (along the N retaining wall of the bridge). Please take into account the hundreds of seniors living in the high rises along Park and University who walk daily on the University overpass, as well as those of us who live on or close to the bridge.

- G-1. We need access to our homes.
- G-2. If there is to be nighttime or weekend construction, residents should have prior notice so that, if possible, we can either vacate or take other action to help ourselves. We are entitled to this. The use and enjoyment of our property will be severely diminished by this project. Someone needs to be looking out for our interests and well-being.
- G-3. Residents should have a contact person from the City of San Diego, and from the contractor, so that we can obtain info on the project while underway, and have someone to address problems that may arise.
- G-4. Our homes, condos, etc. and our autos need to be safe from damage and access needs to be assured.
- G-5. With regard to the project itself, the City of San Diego would be well-served if the bridge renovation included noise abatement features. The retaining walls, roadway, engineering/design should be such that future traffic noise is restrained. Ambulances, fire trucks, buses, police sirens, motorcycles, cars (and even drunk bar patrons leaving at 2 a.m. walking down the sidewalk along University Ave below the bridge without any attempt by bar owners or public authorities to limit this) all create noise pollution that affects hundreds and hundreds of people living in the area. I am no engineer, but there must be design aspects, material selections, resurfacing and paving techniques that can be used to minimize traffic and other ambient noise.
- * This is especially true if you intend to increase clearances to allow larger vehicles. In Seattle and other places, they have actually put a "top" over the road below (in this case, University) and built a small park or other natural feature for residents to use. This project is to update the bridge for a long time into the future. Please think ahead, esp about increased traffic. How can we call San Diego "beautiful" if we allow it to be polluted by excessive noise?
- * Why make all the hoopla about the "historic" nature of a bridge if it does not truly *add* to the livability of Hillcrest. The project should provide for increased public safety, of course, but should also be carried out so as to add to the quality of life of its residents and decrease some of the ambient noise?

Thank you!

Donald W Faleris
1820 University Ave
San Diego CA 92103
619-296-7265

1

- G-1 Vehicular and pedestrian access would be maintained to nearby residences throughout the construction period. As stated in item X.a. of the Initial Study Checklist, the contractor will be required to implement a traffic management plan (TMP) which is specifically intended to minimize the disruption of pedestrian as well as automobile circulation in the immediate area during construction. The overall construction phase is expected to last 12 months, but the bridge will only be closed for 8 months. While the sidewalks along University Avenue would be closed during the overall construction period, the sidewalks and vehicle ramps adjacent to the retaining walls would remain accessible throughout the construction process as would the vehicular ramps and would provide alternate routes for pedestrians currently relying on University Avenue. Although the vehicular ramps would remain open, some of the street parking on the ramps will be closed during the 6-month period when the retaining walls are being stabilized. Pedestrian access on Georgia Street while the bridge is being rehabilitated will be directed to the University Avenue frontage roads between Georgia Street and Park Boulevard or Robinson Avenue or Lincoln Avenue.

Although residents adjacent to the proposed project will experience temporary disruption in north/south access when the bridge is closed, the disruption will be limited during the estimated eight months of construction activities. The TMP would divert traffic on Georgia Street during the bridge closure. Due to the existing street grid in the area, the detour around the closed bridge would take motorists only a few blocks out of their way. Thus, the temporary closure of the bridge will not represent a major inconvenience to residents using Georgia Street and the ramp connections to Park Boulevard during the construction period.

- G-2 As noted in Response to Comment No. F-3 above, public outreach will include additional public community meetings (such as Design Assistance Subcommittee, North Park Planning Committee, Save Our Heritage Organization, and Uptown Planners). A program will be implemented to inform public of the project schedule, lane closures, and other information which will help the public make proper decisions when traveling through the construction area. The measures for alerting the public may include but are not limited to: advance message boards, internet notifications, media releases, and local television and news.
- G-3 Please see Response to Comment Nos. F-3 and G-2 above. In addition, prior to the start of construction the City will assign a field engineering representative to the project who will be the main point of contact throughout the duration of construction. During this time, the public works information line (619) 533-4207 and engineering@sandiego.gov can also be used to obtain information about the project.

RESPONSE TO COMMENTS

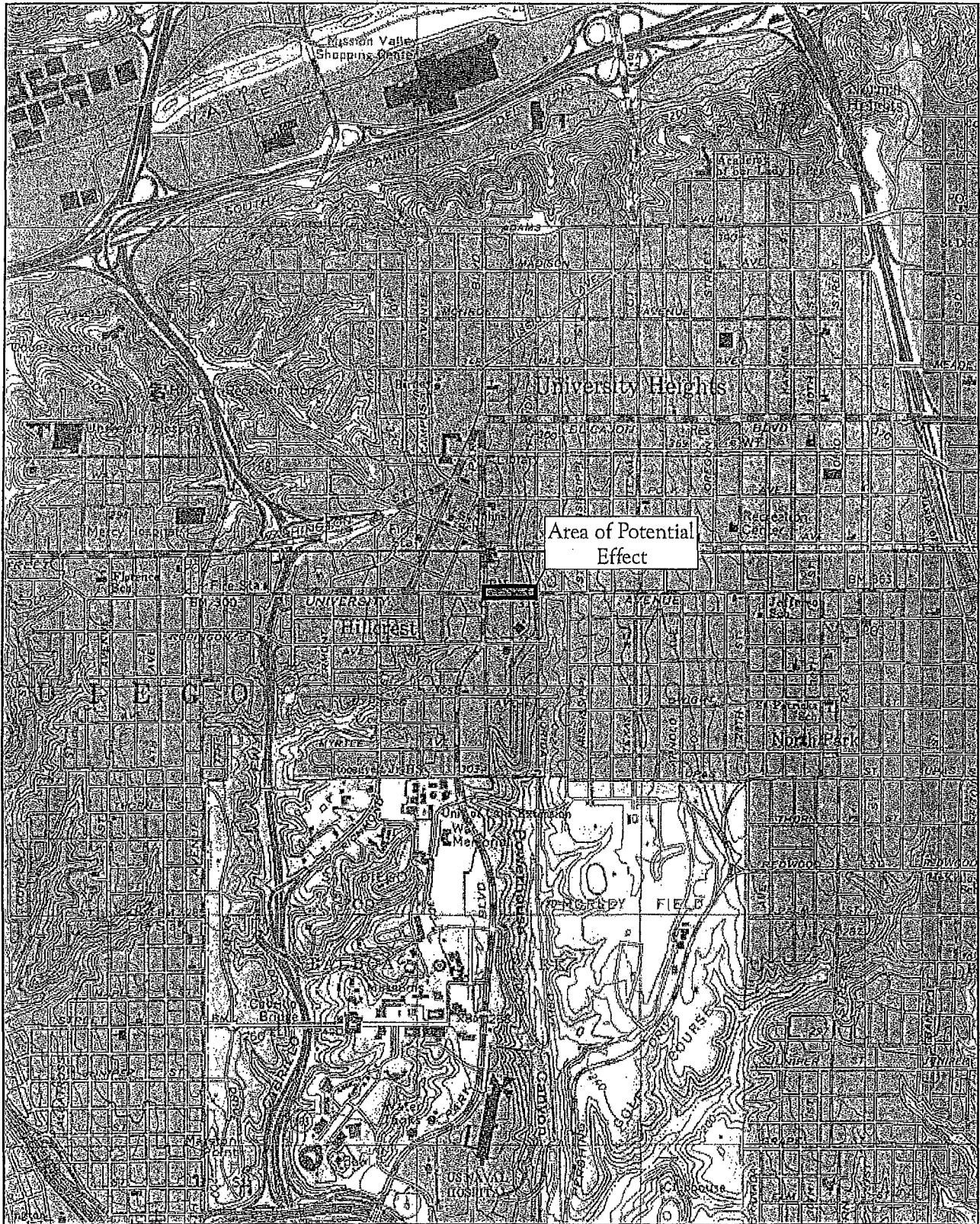
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RESPONSE TO COMMENTS
DONALD FALERIS (JANUARY 25, 2013)

G-4 As described in Response to Comment No. G-1 above, vehicular and pedestrian access will be maintained throughout the construction period. This is outlined in the project's TMP. As part of the project specifications the contractor will be held responsible to ensure property is safe from damage related to the project during all construction-related activities.

G-5 Nearby residents will experience periodic noise related to construction activities. However, construction noise would not have a significant impact on these residents. Construction will normally occur during daylight hours, Monday through Saturday. Section 59.5.0404(b) of the City's Noise Ordinance renders unlawful any construction activity which would cause, at or beyond the property lines of any property zoned residential, an average sound level greater than 75 decibels during the 12-hour period from 7:00 a.m. to 7:00 p.m. Night-time work is expected to be limited to 42 occasions during the construction process. Section 59.5.0404(c) of the City's Noise Control Ordinance permits work to occur at night provided it is demonstrated that it is necessary to construct at night and a permit is obtained from the City. This permit allows work to occur at night, and may require specific special measures to be implemented to reduce construction noise. Thus, night time construction would be allowed with the appropriate permit.

While the project would be required to implement construction noise controls pursuant to the City's Noise Ordinance, there is no basis under CEQA for requiring the project to include additional noise attenuation measures after the bridge rehabilitation work has been completed. The noise sources referenced in this comment currently occur in the area and the rehabilitation would not change the magnitude or frequency of these activities in a way that would constitute a significant noise impact on nearby residents. With respect to the potential noise associated with improved vertical clearance, the change in truck traffic and type would be minor with respect to overall traffic on University Avenue. Thus, no additional noise attenuation measures need be incorporated into the project.



USGS 7.5' Quadrangle: Point Loma, CA



Vicinity Map

Georgia Street Bridge / Project No. 263173

City of San Diego – Development Services Department

e-Bidding Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

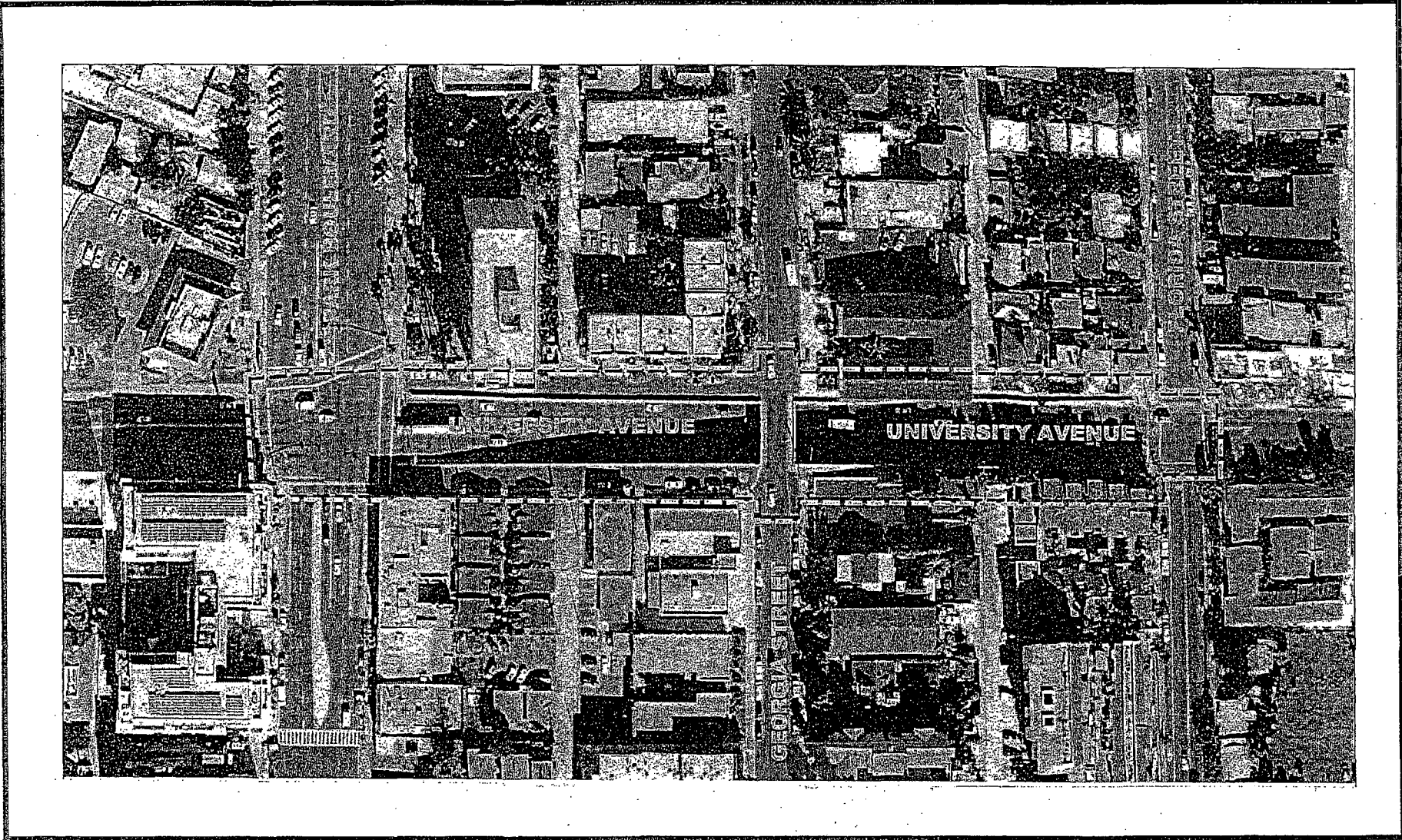
Appendix C - Final Mitigated Negative Declaration (Rev. July 2015)

Federal ID: BRLO 5004 (009)

FIGURE

No. 1

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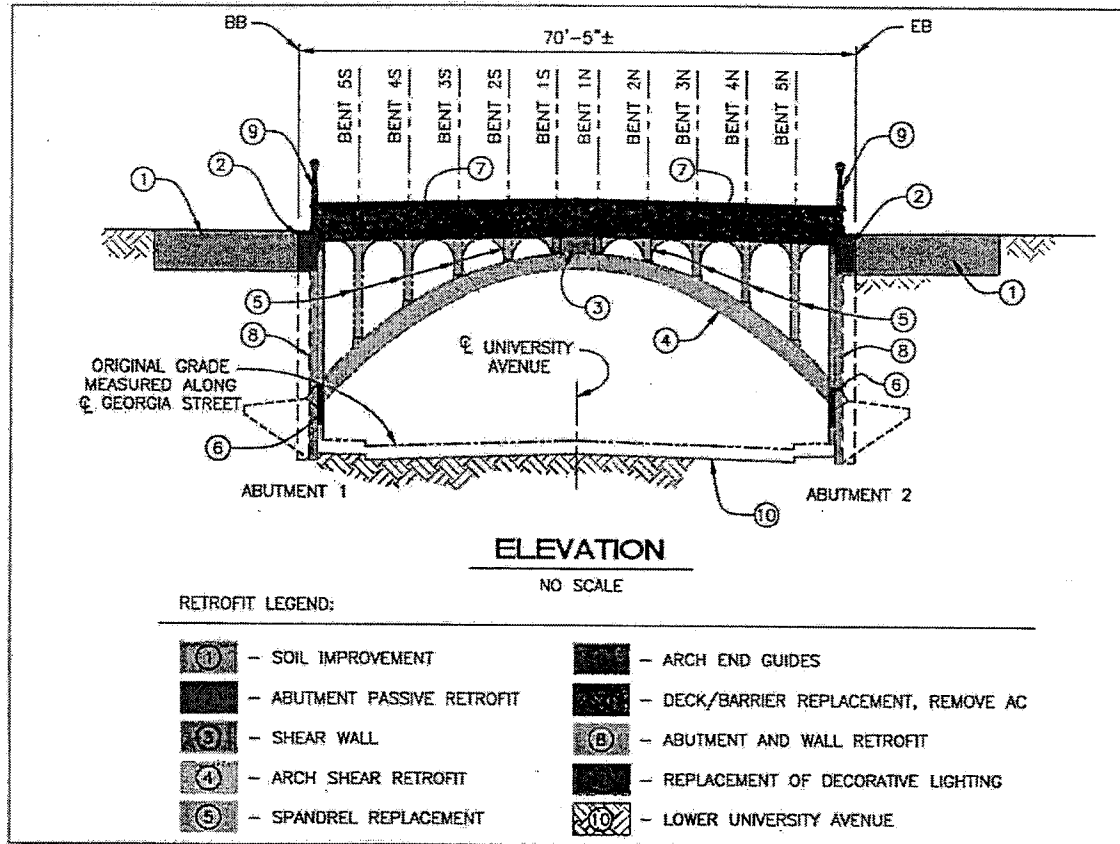


Location Map

Georgia Street Bridge / Project No. 263173

City of San Diego – Development Services Department

FIGURE
No. 2



Sheet 03 - Elevation drawing of proposed retrofit alternative #1. Simon Weiss Engineers



Site Plan - Elevation
 Georgia Street Bridge / Project No. 263173
 City of San Diego – Development Services Department

FIGURE
No. 3

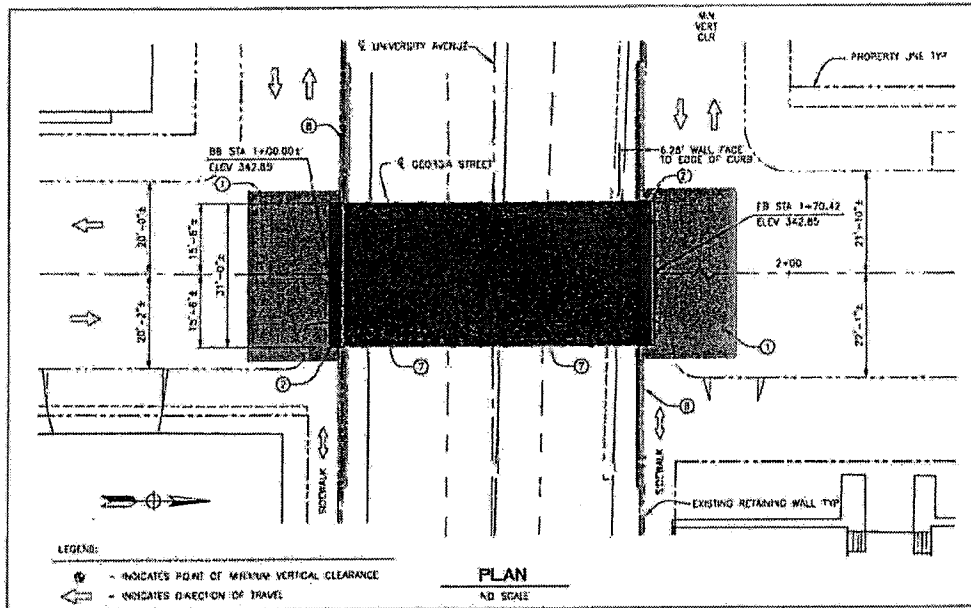


Figure 14. Plan diagram of preferred bridge alternative #1. Simon Wong Engineering

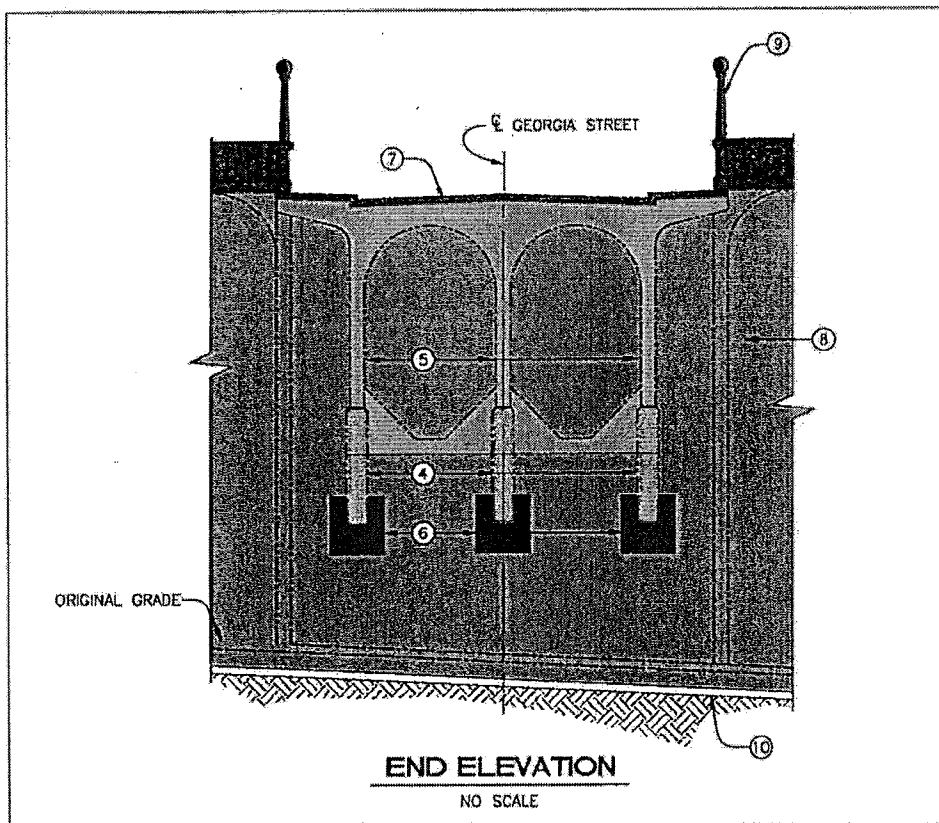


Figure 15. End elevation diagram of preferred bridge alternative #1. Simon Wong Engineering



Plan Diagram & End Elevation

Georgia Street Bridge / Project No. 263173

City of San Diego – Development Services Department

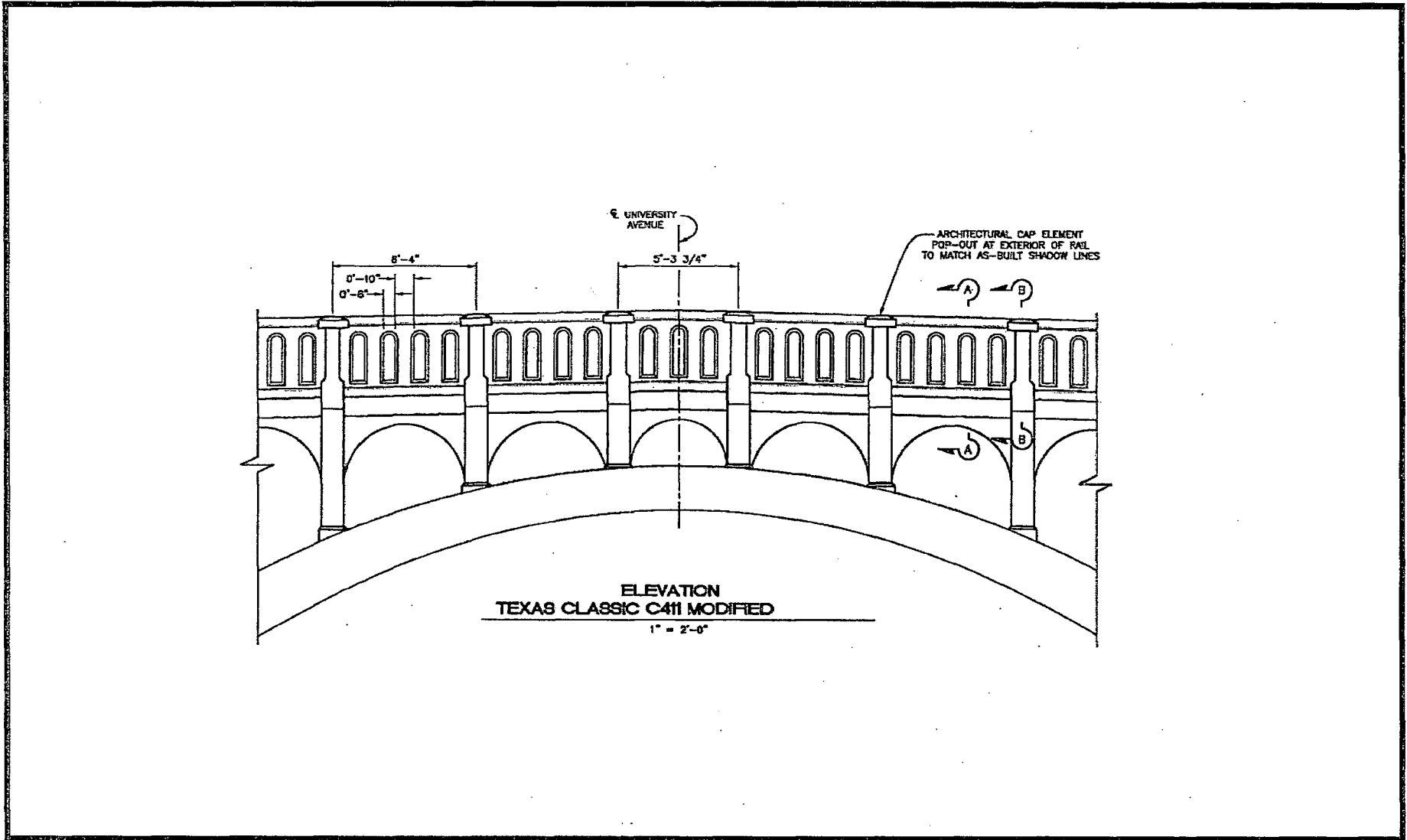
e-Bidding Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue
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Federal ID: BRLO 5004 (009)

FIGURE

No. 4

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Guard Rail Elevation

Georgia Street Bridge / Project No. 263173

City of San Diego – Development Services Department

FIGURE
No. 5

INITIAL STUDY CHECKLIST

1. Project Title/Project number: Georgia Street Bridge Rehabilitation/Project No. 263173
2. Lead agency name and address: City of San Diego, Development Services Department, 1222 First Avenue, MS 501, San Diego, CA 92101
3. Contact person and phone number: Myra Herrmann, 619-446-5372
4. Project location: The project is located in the Grater North Park Community Plan Area at the intersection of Georgia Street and University Avenue, between Florida Street and Park Boulevard (see Figures 1 and 2)/ Council District 3.
5. Project Applicant/Sponsor's name and address: City of San Diego, Public Works – Engineering and Capital Projects Department, Right-of-Way Design Division, 600 B Street, MS 908A, San Diego, CA 92101, contact Mark Giandoni (619) 533-4618.
6. General Plan designation: N/A
7. Zoning: N/A
8. Description of project (Describe the whole action involved, including but not limited to, later phases of the project, and any secondary, support, or off-site features necessary for its implementation.):

Mayor Approval to allow for the seismic retrofit of an existing bridge and associated abutments and retaining walls. The existing bridge is located on Georgia Street and crosses over University Avenue. Bridge abutments and retaining walls associated with the bridge are located on both sides of University Avenue (See Figure 2) to allow University Avenue to pass beneath the bridge. The bridge, abutments, and retaining walls are located between Florida Street, to the east, and Park Boulevard, to the west. The retaining walls extend approximately 330 feet to the east and west of the bridge. The bridge, abutments, and retaining walls were constructed in 1914, and are listed on the National Register of Historic Places as well as being designated by the City of San Diego, Historical Resources Board on September 24, 1998 as HRB Site #325.

Rehabilitation of the bridge would involve replacing the deck and supporting spandrels; the existing arch supporting the columns would remain, but be rehabilitated. The deck and spandrels will be replaced in-kind to recreate the original bridge structure and appearance. The abutments and retaining walls would be stabilized by inserting soil nails and ground anchors through the existing walls to anchor them to the soil behind the wall. The walls would be faced with up to nine inches of concrete which would include the original arch arcades and pilaster features imprinted into the walls. Overall, the bridge and retaining wall rehabilitation work is designed to recreate the historic appearance of these structures, and avoid an adverse impact on this historic feature. In order to differentiate the new walls from the where the original sidewalk existed, the shear wall would be recessed, and the retaining walls would be scored to identify the portions of the walls which extend below the historic sidewalk elevation. All rehabilitation would be done consistent with the Secretary of Interior Standards.

In addition to rehabilitation of the bridge and retaining walls, a portion of University Avenue beneath the bridge would be lowered. The existing pavement would be lowered by as much as two and a half feet beneath the bridge and taper out to the east and west. The lowering is required to meet vertical clearance requirements for vehicles travelling on University Avenue.

9. Surrounding land uses and setting: Briefly describe the project's surroundings:

The proposed project is located in one of the older urban areas within the City of San Diego. The Georgia Street Bridge provides access in the community over University Avenue. It also provides vehicle and pedestrian access to and from Park Boulevard via ramps which extend to the west side along the top of the retaining walls. Parking for local residents is available on one side of each of these ramps. Pedestrian-only access to Florida Street is provided by sidewalks along the top of both retaining walls.

The surrounding area is characterized by commercial and retail uses along University Avenue as well as along Park Boulevard (See Figure 2). Areas beyond the University Avenue and Park Boulevard commercial corridors are residential in nature, consisting of a mixture of multi-family and single-family residences. The majority of the land to the north of University Avenue, between Park Boulevard and Florida Street, consists of multi-family development including a mid-rise residential building along Park Boulevard. Single-family residences occur along Florida Street. Development to the south of the project site is also primarily multi-family residential, with some remnant single-family homes.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.): CALTRANS

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

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

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

DETERMINATION: (To be completed by Lead Agency)

On the basis of this initial evaluation:

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

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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D) AESTHETICS – Would the project:

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

The bridge is considered a scenic resource when viewed from University Avenue. As stated in the *Abbreviated Visual Impact Assessment-Georgia Street Bridge (VIA) (HELIX, 2012)*, there would be moderate visual impacts on the scenic qualities of the bridge during construction which would be caused by the presence of scaffolding, temporary barriers, heavy construction equipment, or other construction materials. However, this impact would be temporary, lasting no more than 12 months. Upon completion of the rehabilitation, the construction equipment would be removed, and the bridge and associated abutments and retaining walls would be restored to their original appearance. Thus, the proposed rehabilitation would not have a substantial adverse impact on a scenic vista.

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

The Georgia Street Bridge, along with the accompanying abutments and retaining walls, were constructed in 1914, and are listed on the National Register of Historic Places. A Historic Property Survey Report (HPSR) was prepared to evaluate the potential effects of the proposed rehabilitation (IS Architecture, 2012), and is incorporated by reference.

The HPSR concluded that the bridge and retaining wall rehabilitation is designed to recreate the historic appearance of these structures. All rehabilitation would be completed in accordance with the Secretary of Interior Standards. Upon completion of the rehabilitation work, the bridge would appear the same as the historic condition. In addition, the original railing would be re-created along the top of the bridge and associated retaining walls.

The proposed lowering of University Avenue would not affect the scenic or historic qualities of the bridge or the associated abutments and retaining walls. Although the maximum lowering beneath the bridge would be up to two and a half feet, the existing pavement lies approximately 7 inches above the historic pavement level when the bridge was constructed. Thus, the net lowering, with respect to the historic condition, of University Avenue would be less than two feet. As concluded in the VIA, this degree of lowering would not substantially change the appearance of the bridge with respect to University Avenue. In addition, the refaced retaining walls would restore the original appearance of the retaining walls. Thus, the proposed rehabilitation would not result in substantial damage to a scenic resource.

- c) Substantially degrade the existing

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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visual character or quality of the site and its surroundings?

As stated in I.a, there would be short-term effects on the appearance of the bridge during rehabilitation, but the impact would not be substantial given the short-term nature of the construction work and the fact that the bridge and retaining walls would be restored to their original appearance after completion of the rehabilitation work.

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

Night-time construction is expected to be limited. When necessary construction lighting would be shielded to reduce illumination of adjacent residences.

In the long-term, the project would result in new street lights located along the rehabilitated bridge where none currently exist. However, street lights are regular occurrences in the surrounding neighborhoods. Thus, it is determined that the proposed project would not create any substantial new sources of light or glare.

II) **AGRICULTURAL AND FOREST RESOURCES:** In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. – Would the project:

- a) Converts Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

The area surrounding the bridge is currently highly urbanized. Thus, no conversion of farmland would occur as a result of the proposed bridge rehabilitation.

- b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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The project site is currently not zoned for agriculture, nor is it included in a Williamson Act Contract. Thus, no conflict with these land use restrictions would result from the proposed project.

- c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 1220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

The project site is currently not zoned as forest or timber land. Thus, no conflict with these land use restrictions would result from the proposed project.

- d) Result in the loss of forest land or conversion of forest land to non-forest use?

The site for the proposed project is currently urbanized, and would not result in the loss of forest land, or the conversion of forest land to non-forest use.

- e) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

The site for the proposed project is currently urbanized. As a result, the project would not involve changes in the existing environment that could result in the conversion of farmland or forest land to non-agriculture use or non-forest use, respectively.

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

- a) Conflict with or obstruct implementation of the applicable air quality plan?

Construction of the project would result in a minor short-term increase in the criteria pollutants upon which are the focus of the Regional Air Quality Strategy (RAQS) developed by the San Diego Air Pollution District (APCD) to control air pollution in the San Diego Air Basin. The proposed project would implement best management strategies (BMPs) to reduce the emission of criteria pollutants during construction. These BMPs will include routine dust control and use of construction equipment fitted with appropriate air emission controls. Additionally, the

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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rehabilitation of the bridge would not increase the number of vehicle trips or miles occurring within the San Diego Air Basin. Thus, the proposed project would not conflict with or obstruct the implementation of the RAQS.

- b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

As discussed in III.a, construction would utilize BMPs to control criteria pollutants. In addition, the construction activities are considered minimal in the context of construction which is anticipated to occur throughout the San Diego Air Basin. Once completed, the traffic associated with the bridge would return to the pre-construction condition. Thus, the proposed project would not violate applicable air quality standards or substantially contribute to an existing or projected air quality violation.

- c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

As discussed in III.a, construction would generate short-term criteria pollutants. However, construction emissions would be temporary, and implementation of BMPs would reduce potential impacts related to construction activities. Therefore, the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under applicable federal or state ambient air quality standards.

- d) Expose sensitive receptors to substantial pollutant concentrations?

Due to the limited duration of the construction and the relatively small amount of construction equipment required to implement the project, nearby residents would not be exposed to substantial pollutant concentrations. The most localized impact would come from dust generated during construction. Dust control measures mandated by the City would maintain dust at levels that would not significantly impact nearby residents.

- e) Create objectionable odors affecting a substantial number of people?

Operation of construction equipment and vehicles could generate odors associated with fuel

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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combustion. However, these odors would dissipate into the atmosphere upon release, and would only temporarily remain in proximity to the construction equipment and vehicles. Therefore, the project would not create objectionable odors that would affect a substantial number of people.

IV. BIOLOGICAL RESOURCES – Would the project:

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

As discussed in the Natural Environment Study (NES) (HELIX, 2012), there are no biological resources within the project area. The nearest biological resources are located a minimum of 1,250 feet from the project site, and are separated from the project site by high density development. Thus, the proposed project would have no adverse effects on any candidate, sensitive, or special status species.

- b) Have a substantial adverse effect on any riparian habitat or other community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

As discussed in IV.a, there are no biological resources (e.g. riparian habitat or other important biological community) within the project area. Thus, no impacts to these resources would occur from the proposed project.

- c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

As discussed in IV.a, there are no biological resources (e.g. wetlands) in the project area. Thus, the project would not impact federally protected wetlands.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

As discussed in IV.a, there are no biological resources (e.g. animal corridors), nor habitat supporting native animals, in the project area. Furthermore, the nearest wildlife habitat is 1,250 feet from the project site, and is separated from the project site by intervening urban development. Thus, the proposed project would not substantially interfere with wildlife movement.

- e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

As discussed in IV.a, there are no biological resources located in or adjacent to the project site. Thus, there are no local biological resource protection policies or ordinances (e.g. Environmentally Sensitive Lands) which apply to the project site. As a consequence, the project would not conflict with any policies or ordinances designed to protect biological resources.

- f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

As discussed in IV.a, there are no biological resources in or adjacent to the project site. Thus, there are no regional biological resource protection policies or plans which apply to the project site. As a consequence, the project would not conflict with any regional policies or plans designed to protect biological resources.

V. CULTURAL RESOURCES – Would the project:

- a) Cause a substantial adverse change in the significance of an historical resource as defined in §15064.5?

The purpose and intent of the Historical Resources Regulations of the Land Development Code (Chapter 14, Division 3, and Article 2) is to protect, preserve and, where damaged, restore the historical resources of San Diego. The regulations apply to all proposed development within the City of San Diego when historical resources are present on the premises. CEQA requires that

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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before approving discretionary projects, the Lead Agency must identify and examine the significant adverse environmental effects, which may result from that project. A project that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (Sections 15064.5(b) and 21084.1). A substantial adverse change is defined as demolition, destruction, relocation, or alteration activities, which would impair historical significance (Sections 15064.5(b)(1)). Any historical resource listed in, or eligible to be listed in the California Register of Historical Resources, including archaeological resources, is considered to be historically or culturally significant.

As discussed in I.b, the HPSR concluded that the bridge and retaining wall rehabilitation is designed to recreate the historic appearance of these structures. Upon completion of the rehabilitation work, the bridge would appear the same as the historic condition. In addition, the original railing would be re-created along the top of the bridge and associated retaining walls. In order to differentiate the new walls from the where the original sidewalk existed, the shear wall would be recessed, and the retaining walls would be scored to identify the portions of the walls which extend below the historic sidewalk elevation. In addition, according to the soils investigation for the project the trolley tracks within University Avenue exist under approximately seven (7) inches of pavement below the Georgia Street Bridge. As such, although the tracks in this location have been substantially altered, at the time that the tracks are encountered during constructed-related activities within University Avenue, the historical monitor will document the resource in-place on the appropriate DPR form prior to their removal in accordance with City procedures as indicated in the Historical Resources monitoring program within the MND. The project has been designed and reviewed by City historical staff for consistency with the Secretary of the Interior Standards for the Treatment of Historic Properties (in particular the Standards of Rehabilitation) and therefore has been determined to be consistent with the City of San Diego's Historical Resources Regulations and CEQA, Thus, it is concluded that the proposed rehabilitation would not cause an adverse change in the historic attributes of the bridge, abutments or retaining walls.

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

Based on an Archaeological Survey Report (ASR) (Tierra Environmental Consultants, 2012), it has been determined that it is unlikely that intact buried cultural resources remain in the project area. Thus, the proposed project would not cause a substantial adverse change in the significance of an archaeological resource.

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

The geotechnical report (Ninyo & Moore, 2012), concluded that the geologic formations in the project area consist of fill and San Diego Formation. Although the San Diego Formation is considered to have a high potential to contain significant paleontological materials, the potential for encountering substantial paleontological material in the course of the rehabilitation work is

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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considered low. Much of the soil behind the retaining walls consists of fill which was placed there during the initial construction. Penetration of these fill soils by the proposed soil nails would, thus, have no impact on paleontological resources.

While lowering of University Avenue below the historic pavement elevation could impact the San Diego Formation, the encroachment would not exceed a depth of two feet. According to the City's Significance Thresholds, an encroachment which would not exceed a depth of 10 feet is not considered significant. Furthermore, construction of the roadway and initial trolley tracks would have likely already disturbed this area.

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

No human remains have been documented within the project area and none are anticipated because the project area has been heavily developed. However, in the event that human remains are encountered during ground disturbance activities, all work in the area of the discovery would halt and all required provisions/protocols in accordance with the California Public Resources Code and the California Health and Safety Code including consultation with the state designated Native American MLD would be invoked. Implementation of state mandated requirements would ensure potential impacts are less than significant.

VI. GEOLOGY AND SOILS – Would the project:

- a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

The geotechnical report prepared for the project (Ninyo & Moore, 2012) concluded that no active faults are known to underlie the project site. Thus, the proposed project would not expose people or structures to effects associated with the rupture of a known earthquake fault.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- ii) Strong seismic ground shaking?

The geotechnical report prepared for the project concluded that the site is considered to be in a seismically active area, as is much of southern California. Although no active faults are known to underlie the project site, active and potentially active faults do occur in the area. The nearest fault zone is associated with the Rose Canyon Fault Zone which lies approximately 1.3 miles to the northwest of the project site. Therefore, the potential for strong ground motion at the project site is considered significant.

Although seismic shaking may occur, the bridge rehabilitation is specifically designed to withstand anticipated seismic events in the project area. Thus, seismic shaking would not represent a substantial risk once the rehabilitation work is completed.

- iii) Seismic-related ground failure, including liquefaction?

The geotechnical report prepared for the project concluded that the risk of liquefaction is considered low. This conclusion is based on the absence of groundwater and the relatively dense nature of the underlying San Diego Formation.

- iv) Landslides?

The geotechnical report prepared for the project concluded that the risk of landslides is low. This conclusion is based on a review of published geologic literature, aerial photographs and subsurface evaluation.

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

The proposed project would not result in substantial soil erosion or the loss of topsoil, as the project proposes only to rehabilitate and repair an existing structure in an urbanized area.

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

The geotechnical report prepared for the project concluded that project is underlain by the San Diego Formation which is considered a stable formation and not subject to landslides or liquefaction. Soil nails are proposed to improve the stability of the bridge abutments and retaining walls which have fill material behind them. The soil nails would connect the walls with the San Diego Formation. Thus, the potential risk associated with fill material would be

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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alleviated by the project.

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

As discussed in VI.c, the geotechnical report prepared for the project concluded that project is underlain by the San Diego Formation and that soil nails through the retaining walls would avoid substantial risks to life or property from the proposed rehabilitation.

- e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

The project would not have any effects on septic tanks or alternative wastewater disposal systems, as there are no septic tanks on or surrounding the already developed project site.

VII. GREENHOUSE GAS EMISSIONS - Would the project:

- a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

The construction of the proposed project would temporarily increase the amount of greenhouse gas emissions released in the San Diego Air Basin. However, construction emissions would be temporary. In the long-term, the project would not generate GHG emissions. Although traffic crossing the bridge would generate GHG emissions, this traffic is already occurring on the bridge and would occur in the area with or without the bridge. Thus, the proposed project would not generate GHG emissions which would have a significant direct or indirect impact on the environment.

- b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As discussed in VII.a, the proposed project would not constitute a significant source of GHG emissions. Thus, it would not conflict with policies and plans intended to control GHG emissions.

VIII. HAZARDS AND HAZARDOUS MATERIALS – Would the project:

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- a) Create a significant hazard to the public or the environment through routine transport, use, or disposal of hazardous materials?

Construction of the project may require the use of hazardous materials (fuels, lubricants, solvents, etc.), which would require proper storage, handling, use and disposal; however, the project would not routinely transport, use or dispose of hazardous materials. The potential use of these materials would be temporary in nature (the planned construction period is 12 months), and the project would not routinely transport, use or dispose of hazardous materials; therefore, the potential impact is considered less than significant.

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

As discussed in VIII.a, the project would not involve the use or transport of substantial amounts of hazardous materials. Thus, the project would not create a significant hazard to the public or the environment.

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

As discussed in VIII.a, the project would not involve the use or transport of substantial amounts of hazardous materials. Thus, the project would not create a significant hazard to schools in the area.

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

The project site is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, known as the Cortese list. Therefore, no hazards would occur in relation to the Government Code Section.

- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two mile of a public airport or public use

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

The proposed project is not located within an airport use plan, or within two miles of a public airport. As a consequence, the project would not introduce any new features that would create a flight hazard.

- f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The proposed project is not located within the vicinity of a private airstrip. As a consequence, the project would not pose a safety hazard for people residing or working in the project area

- g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?
- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Construction of the project would temporarily affect traffic circulation within the project area and on adjoining roads. However, the proposed Traffic Management Plan (TMP) (Linscott, Law and Greenspan Engineers, 2012) would be implemented during construction which would assure adequate emergency access during construction. Once rehabilitation is complete, the bridge would continue to enhance the safety of the nearby neighborhoods by providing a grade-separated connection over University Avenue. Therefore, the project would not interfere with an adopted emergency response plan or emergency evacuation plan.

- h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project is located in an urbanized area, and is surrounded by developed land. Thus, the project would not result in an exposure of people or structures to wildland fire risk.

IX. HYDROLOGY AND WATER QUALITY - Would the project:

- a) Violate any water quality standards or waste discharge requirements?
- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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BMPs would be implemented during construction to control water contaminants including oil and fuel from construction equipment and erosion and sedimentation from uncontrolled stormwater.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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The bridge design includes drainage structures to control stormwater once the bridge is rehabilitated to assure compliance with applicable water quality standards. Therefore, the project would not violate any existing water quality standards or discharge requirements.

- b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

The project does not propose the use of groundwater, and would not introduce new impervious surfaces. Rather, the project will rehabilitate or replace already impervious surfaces. Therefore, the project would not substantially deplete groundwater supplies, or interfere with groundwater recharge.

- c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner, which would result in substantial erosion or siltation on- or off-site?

The project would not substantially alter the existing drainage pattern of the site or area, and would not result in substantial erosion or siltation; the site is already developed. Although some storm drains may need to be removed and replaced, no impact related to erosion or siltation would occur.

- d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?

The project would not substantially alter the existing drainage pattern of the site or area, and would not substantially increase the rate or amount of surface runoff in a manner that would result in flooding. The site is already developed, and although some storm drains may need to be removed and replaced, there would be no significant increase in surface run-off or a decrease in drainage capabilities in the project area. Thus, no impact related to flooding would occur.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- e) Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

The utilization of BMPs and compliance with the City's Stormwater Regulations would prevent or effectively minimize short-term construction runoff impacts. Additionally, no new impervious areas are proposed that would increase runoff from the project area, and improvements to the drainage functionality at the site would improve overall drainage capacity.

- f) Otherwise substantially degrade water quality?

The utilization of BMPs and compliance with the City's Stormwater Regulations would prevent or effectively minimize short-term water quality impacts. Additionally, no long-term water quality impacts would occur as the project is not new development, but, rather, the rehabilitation of an existing structure.

- g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

The project does not propose the construction of any new housing. Thus, no impact related to the placement of new housing within a 100-year flood hazard area would occur.

- h) Place within a 100-year flood hazard area, structures that would impede or redirect flood flows?

The bridge and associated retaining walls are not located within a 100-year floodplain. Thus, the project would not impede or redirect flood flows.

- i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

As discussed in IX.i, the project is not located within a 100-year floodplain and, thus, would not expose people or structures to flooding

- j) Inundation by seiche, tsunami, or mudflow?

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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The project site is not exposed to seiche or tsunami threats, nor is the site in an area which may experience mudflows as all the surrounding area is already developed.

X. LAND USE AND PLANNING – Would the project:

- a) Physically divide an established community?

The construction of the proposed project could temporarily reduce ease of access through and around the project site, but the implementation of the proposed TMP would provide alternative routes during construction. Upon completion of the rehabilitation (within 12 months), the original access provided by the bridge would be restored.

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

The project would involve rehabilitation of existing roadway facilities and would not introduce any new development or access in the community. The project has been designed and reviewed for consistency with the Secretary of the Interior Standards for the Treatment of Historic Properties (in particular the Standards of Rehabilitation) and therefore has been determined to be consistent with the City of San Diego's Historical Resources Regulations (also see discussion under Cultural Resources). Thus, the project would not conflict with applicable land use plans, policies or regulations of an agency with jurisdiction over the project.

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

The project is located within an urbanized area without biological resources. Thus, the project would not conflict with habitat conservation plans, or natural community conservation plans.

XI. MINERAL RESOURCES – Would the project?

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

The area surrounding the project site is not designated for the recovery of mineral resources on the City of San Diego General Plan Land Use Map. Therefore, the project would not result in the loss of

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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availability of a known mineral resource.

- b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

The area surrounding the project site is not designated for the recovery of mineral resources on the City of San Diego General Plan Land Use Map. Therefore, the project would not result in the loss of availability of a locally important mineral resource recovery site.

XII. NOISE – Would the project result in:

- a) Exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

The development of the project would generate noise during construction, but it would be temporary and transitory in nature. As discussed in the Community Impact Assessment (CIA) (HELIX 2012), construction will normally occur during daylight hours, Monday through Saturday. Section 59.5.0404(b) of the City’s Noise Ordinance prohibits any construction activity which would cause, at or beyond the property lines of any property zoned residential, an average sound level greater than 75 decibels during the 12- hour period from 7:00 a.m. to 7:00 p.m. Night-time work is expected to be limited to 42 occasions during the construction process. Section 59.5.0404(c) of the City’s Noise Control Ordinance permits work to occur at night provided it is demonstrated that it is necessary to construct at night, and a permit is obtained from the City. This permit would allow work to occur at night, and may require specific special measures to be implemented to reduce construction noise. Securing a permit for night-time construction would avoid significant noise impacts from night-time construction.

- b) Exposure of persons to, or generation of, excessive ground borne vibration or ground borne noise levels?

The development of the project would generate ground borne vibration from construction, but it would be temporary and transitory in nature. Thus, significant ground vibration impacts would not occur.

- c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

Traffic noise associated with the Georgia Street Bridge already affects the surrounding development.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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As discussed in the TMP, the rehabilitation would not change the traffic volume expected to be carried by the bridge in the future because the capacity of the bridge would be unchanged from its original condition.

- d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above existing without the project?
- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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As discussed in X.a, construction would temporarily elevate ambient noise levels in the project vicinity but the construction noise would conform to the City's noise regulations for construction and the permit required for night-time construction. Secondly, as discussed in X.c, the traffic noise associated with the existing bridge would be unchanged with the proposed rehabilitation.

- e) For a project located within an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport would the project expose people residing or working in the area to excessive noise levels?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project is not located within the boundaries of an existing airport land use plan, or an airport land use plan pending adoption. Additionally, the project would not introduce any new features that would expose people residing or working in the project area to excessive noise beyond the existing levels.

- f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project is not located within the vicinity of a private airstrip. Thus, motorists and pedestrians using the rehabilitated bridge would not be exposed to noise from a private airstrip.

XIII. POPULATION AND HOUSING – Would the project:

- a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The proposed project would rehabilitate an existing bridge in an urban area which is fully developed. Thus, the rehabilitation would not induce population growth.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

The project would not result in the displacement of any existing housing.

- c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

The project would not result in the displacement of any people, and would not necessitate the construction of replacement housing elsewhere.

XIV. PUBLIC SERVICES

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

- i) Fire Protection

The project would not physically alter any fire protection facilities. Construction of the project would temporarily affect traffic circulation within the project area, and on adjoining roads. However, the proposed TMP would be implemented during construction to maintain fire equipment access. Therefore, the potential impact of the project on fire protection services would be less than significant.

- ii) Police Protection

The project would not physically alter any police protection facilities. Construction of the project would temporarily affect traffic circulation within the project area, and on adjoining roads. However, the proposed TMP implemented during construction would maintain police access. Therefore, the potential impact of the project on police protection services would be less than significant.

- iii) Schools

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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The project would not physically alter any schools. Additionally, the project would not include construction of housing or induce growth that could increase demand for schools in the area.

- v) Parks

The project would not physically alter any parks. Additionally, the project would not include construction of future housing or induce growth that could increase demand for parks or other recreational facilities in the area.

- vi) Other public facilities

The project would not substantially increase the demand for electricity, gas, or other public facilities.

XV. RECREATION –

- a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

The proposed project would not generate additional demand for recreational facilities within the community nor, would it adversely affect any existing recreational facilities in the community by increasing demand or causing physical deterioration of existing recreational facilities.

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

The project does not include the construction or expansion of recreational facilities.

XVI. TRANSPORTATION/TRAFFIC – Would the project?

- a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Construction of the project would temporarily affect traffic circulation within the project area, and on adjoining roads. However, implementation of the proposed TMP during construction would assure safe, convenient access is maintained to residences and businesses served by the Georgia Street Bridge and University Avenue. The TMP would also include provisions for maintaining pedestrian and bicyclist access during construction. Upon completion of the restoration, the existing vehicular, pedestrian and bicycle access would be restored. Therefore, the project would not conflict with a traffic circulation plan, ordinance or policy.

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

A traffic analysis as part of the TMP concludes that the redirection of traffic during construction would cause the level of service (LOS) at one intersection and three roadway segments in the project area to become unacceptable for various durations during the 12-month construction period. The LOS at the intersection of Lincoln and Park Boulevard would change from LOS D to LOS E for approximately 25 weeks while the Georgia Street bridge is closed. Upon completion of the rehabilitation, this intersection would return to its current LOS.

Impacted roadway segments consist of Florida Street, between University Avenue and Robinson, University Avenue, from Park Boulevard to Florida Street, and Robinson, between Park Boulevard and Georgia Street; these segments would all change from LOS D, B, and C to LOS E, F and E, respectively. The impact on University Avenue is expected to extend over the entire 12-month construction period. Similarly, segment impacts on Florida Street and Robinson Avenue are likely to occur for the entire construction period. However, the full extent of these impacts are likely to be felt only when Georgia Street is closed (approximately 25 weeks). In reality, affected motorists are expected to find the easiest route during construction, and would likely divert to other parallel streets if Robinson Avenue or Florida Streets become congested. For example, El Cajon Boulevard lies approximately a third of a mile to the north, and has excess capacity to handle diverted traffic. As with the intersection, the LOS on these street segments would return to existing levels upon completion of the bridge rehabilitation.

- c) Result in a change in air traffic patterns, including either an increase

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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in traffic levels or a change in location that results in substantial safety risks?

The project does not include any new features that could affect air traffic patterns, or introduce new safety hazards related to air traffic.

- d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?
- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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The rehabilitation project would not increase traffic hazards. Rather, the project would enhance safety by improving the guard rails on the bridge and restoring guard rails at the top of the retaining walls. In addition, the lowering of University Avenue will increase the vertical clearance beneath the bridge, allowing the clearance to conform with state requirements.

- e) Result in inadequate emergency access?
- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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The construction of the proposed project could temporarily affect access through and around the project site, but the implementation of the proposed TMP would provide alternative routes and ensure that the impacts to emergency access are less than significant.

- f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?
- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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The construction of the proposed project could temporarily impact the performance of public transit, bicycle, or pedestrian facilities; however, the implementation of the proposed TMP would provide alternative routes for all modes of transportation, and ensure that traffic circulation and personal safety is not substantially affected by the construction. Upon completion of the rehabilitation, the original access for public transit, pedestrians and bicyclists would be restored.

XVII. UTILITIES AND SERVICE SYSTEMS – Would the project:

- a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?
- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

The proposed project would not generate wastewater and, thus, would not affect wastewater treatment requirements.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

The project would not result in the expansion of existing or the construction of new water or wastewater treatment facilities.

- c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

The project would not result in the expansion of existing or construction of new stormwater drainage facilities.

- d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

The project would not require the use of any permanent water source and, therefore, would not impact existing water supplies.

- e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

The project would not have any impact on an existing wastewater treatment provider, as the project will not generate wastewater.

- f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Construction of the project would likely generate waste associated with construction activities. This waste would be disposed in accordance with applicable City and state regulations pertaining to solid waste including permitting capacity of the landfill serving the project area. Recyclable material

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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would be recycled according to City standards regulating construction activities. Operation of the project would not generate waste and, therefore, would not affect the permitted capacity of the landfill serving the project area.

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

Operation of the project would not generate waste, but any solid waste generated during construction activities would be recycled or disposed in accordance with applicable City, state and federal regulations.

XVIII. MANDATORY FINDINGS OF SIGNIFICANCE –

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

As indicated in the NES, there are no natural habitats within the project area which provide habitat for fish or wildlife. Thus, the project would not reduce habitat for these animals.

Although the bridge and associated retaining walls are considered historically important, the rehabilitation work would restore the facilities to their historic configuration, thereby avoiding impacts to examples of California history. As discussed in V.b, significant prehistoric resources are not expected to be affected by the proposed rehabilitation.

- b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable futures projects)?

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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No other major construction work, which could cause environmental effects that could compound the effects associated with the proposed rehabilitation work, is expected to occur in the project area during rehabilitation. Thus, no cumulatively considerable impacts are anticipated.

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

The rehabilitation of the bridge would not have environmental effects which would cause a substantial effect on humans. As discussed in XII.a, the construction noise would conform to the City's noise regulations to avoid adverse noise impacts and a permit would be acquired for night-time construction. Dust control measures would eliminate substantial dust impacts on surrounding homes and businesses. Implementation of the proposed TMP would assure continued safe, convenient access to neighborhoods served by the bridge during its closure, and help avoid adverse impacts on residents related to traffic circulation.

**INITIAL STUDY CHECKLIST
REFERENCES**

I. AESTHETICS / NEIGHBORHOOD CHARACTER

- Community Plan.
- Local Coastal Plan.
- Site Specific Report: *Abbreviated Visual Impact Assessment – Georgia Street Bridge, HELIX Environmental Planning, December 13, 2012.*

II. AGRICULTURAL RESOURCES & FOREST RESOURCES

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

III. AIR QUALITY

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

IV. BIOLOGY

- City of San Diego, Multiple Species Conservation Program (MSCP), Subarea Plan, 1997
- City of San Diego, MSCP, "Vegetation Communities with Sensitive Species and Vernal Pools" Maps, 1996.
- City of San Diego, MSCP, "Multiple Habitat Planning Area" maps, 1997.
- Community Plan - Resource Element.
- California Department of Fish and Game, California Natural Diversity Database, "State and Federally-listed Endangered, Threatened, and Rare Plants of California," January 2001.
- California Department of Fish & Game, California Natural Diversity Database, "State and Federally-listed Endangered and Threatened Animals of California," January 2001.
- City of San Diego Land Development Code Biology Guidelines.
- Site Specific Reports: *Natural Environment Study, HELIX Environmental Planning, October 30, 2012.*

V. CULTURAL RESOURCES (INCLUDES HISTORICAL RESOURCES)

- City of San Diego Historical Resources Guidelines.
- City of San Diego Archaeology Library.
- Historical Resources Board List.
- Community Historical Survey:
- Site Specific Report: *Historic Property Survey Report For The Georgia Street Bridge, IS Architecture, December 2012.*

X Site Specific Report: *Archaeological Survey Report For The Georgia Street Bridge Seismic Retrofit And Rehabilitation Project, Tierra Environmental Consultants, October 2012.*

VI. GEOLOGY/SOILS

___ City of San Diego Seismic Safety Study.

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

X Site Specific Report: *Update Geotechnical Evaluation for the Georgia Street Bridge Rehabilitation, Ninyo & Moore, March 23, 2012.*

VII. GREENHOUSE GAS EMISSIONS

___ Site Specific Report:

VIII. HAZARDS AND HAZARDOUS MATERIALS

___ San Diego County Hazardous Materials Environmental Assessment Listing

___ San Diego County Hazardous Materials Management Division

___ State Water Resources Control Board Geotracker

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

___ Airport Land Use Compatibility Plan.

___ Site Specific Report:

IX. HYDROLOGY/WATER QUALITY

___ Flood Insurance Rate Map (FIRM).

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

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

___ Site Specific Report:

X. LAND USE AND PLANNING

___ City of San Diego General Plan.

___ Community Plan.

___ Airport Land Use Compatibility Plan

___ City of San Diego Zoning Maps

___ FAA Determination

X Site Specific Report: *Community Impact Assessment for the Proposed Rehabilitation of the Georgia Street Bridge, HELIX Environmental Planning, November 6, 2012.*

XI. MINERAL RESOURCES

X City of San Diego General Plan.

___ Division of Mines and Geology, Special Report 153 - Significant Resources Maps.

___ California Geological Survey - SMARA Mineral Land Classification Maps.

___ Site Specific Report:

XII. NOISE

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

XIII. PALEONTOLOGICAL RESOURCES

- ___ City of San Diego Paleontological Guidelines.
- ___ Deméré, Thomas A., and Stephen L. Walsh, "Paleontological Resources City of San Diego," Department of Paleontology San Diego Natural History Museum, 1996.
- X Site Specific Report: *Update Geotechnical Evaluation for the Georgia Street Bridge Rehabilitation, Ninyo & Moore, March 23, 2012.*

XIV. POPULATION / HOUSING

- ___ City of San Diego General Plan.
- ___ Community Plan.
- ___ Series 11 Population Forecasts, SANDAG.
- ___ Other:

XV. PUBLIC SERVICES

- ___ City of San Diego General Plan.
- ___ Community Plan.

XVI. RECREATIONAL RESOURCES

- ___ City of San Diego General Plan.
- ___ Community Plan.
- ___ Department of Park and Recreation
- ___ City of San Diego - San Diego Regional Bicycling Map

XVII. TRANSPORTATION / CIRCULATION

- ___ City of San Diego General Plan.
- ___ Community Plan.
- ___ San Diego Metropolitan Area Average Weekday Traffic Volume Maps, SANDAG.
- ___ San Diego Region Weekday Traffic Volumes, SANDAG.

— Site Specific Report: *Traffic Management Plan Georgia Street Bridge Rehabilitation*,
Linscott, Law and Greenspan Engineers, November 26, 2012.

XVIII. UTILITIES

— City of San Diego General Plan.
— Community Plan.

XIX. WATER CONSERVATION

— City of San Diego General Plan.
— Community Plan.
— Sunset Magazine, New Western Garden Book. Rev. ed. Menlo Park, CA: Sunset
Magazine.
— Site Specific Report:

APPENDIX D

CATEGORICAL EXEMPTION / CATEGORICAL EXCLUSION DETERMINATION FORM

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM

City of San Diego	NA	NA	BRLO-5004(009)
Dist.-Co.-Rte. (or Local Agency)	P.M/P.M.	E.A. (State project) /Project No.	Federal-Aid Project No. (Local project)/ Proj. No.
PROJECT DESCRIPTION: (Briefly describe project, purpose, location, limits, right-of-way requirements, and activities involved in this box. Use Continuation Sheet, if necessary)			
The City of San Diego proposes to seismically retrofit and rehabilitate the Georgia Street Bridge (Bridge 57C-0418). The bridge straddles the boundary between the communities of North Park and Hillcrest and it spans University Avenue. The work will include the following elements (continued on next page):			
CEQA COMPLIANCE (for State Projects only) Based on an examination of this proposal, supporting information, and the following statements (See 14 CCR 15300 et seq.):			
<ul style="list-style-type: none"> • If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law. • There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time. • There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances. • This project does not damage a scenic resource within an officially designated state scenic highway. • This project is not located on a site included on any list compiled pursuant to Govt. Code § 65962.5 ("Cortese List"). • This project does not cause a substantial adverse change in the significance of a historical resource. 			
CALTRANS CEQA DETERMINATION (Check one)			
<input type="checkbox"/> Exempt by Statute. (PRC 21080[b]; 14 CCR 15260 et seq.)			
Based on an examination of this proposal, supporting information, and the above statements, the project is:			
<input type="checkbox"/> Categorically Exempt. Class _____. (PRC 21084; 14 CCR 15300 et seq.)			
<input type="checkbox"/> Categorically Exempt. General Rule exemption. [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061[b][3])]			
Print Name: Environmental Branch Chief		Print Name: Project Manager/DLA Engineer	
Signature	Date	Signature	Date
NEPA COMPLIANCE			
In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:			
<ul style="list-style-type: none"> • does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and • has considered unusual circumstances pursuant to 23 CFR 771.117(b) (http://www.fhwa.dot.gov/hep/23cfr771.htm - sec.771.117). 			
In non-attainment or maintenance areas for Federal air quality standards, the project is either exempt from all conformity requirements, or conformity analysis has been completed pursuant to 42 USC 7506(c) and 40 CFR 93.126, 40 CFR 93.127, 40 CFR 93.128.			
CALTRANS NEPA DETERMINATION (Check one)			
<input checked="" type="checkbox"/> 23 USC 326: The State has been assigned, and hereby certifies that it has carried out, the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding (MOU) dated June 7, 2010, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:			
<input type="checkbox"/> 23 CFR 771.117(c): activity (c) _____ <input checked="" type="checkbox"/> 23 CFR 771.117(d): activity (d) <u>(3)</u> <input type="checkbox"/> Activity listed in Appendix A of the MOU between FHWA and the State			
<input type="checkbox"/> 23 USC 327: Based on an examination of this proposal and supporting information, the State has determined that the project is a CE under 23 USC 327.			
Kevin Hovey		Erwin Gojuangco BY WISHING LIMA	
Print Name: Environmental Branch Chief		Print Name: Project Manager/DLA Engineer	
Signature	Date	Signature	Date
	2/4/13		2/4/13
Date of Categorical Exclusion Checklist completion:		Date of ECR or equivalent:	

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., air quality studies, documentation of conformity exemption, FHWA conformity determination if 23 USC 327 project; §106 commitments; §4(f); §7 results; Wetlands Finding; Floodplain Finding; additional studies; and design conditions).

**CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM
Continuation Sheet**

City of San Diego	NA	NA	BRLO-5004(009)
Dist.-Co.-Rte. (or Local Agency)	P./M/P.M.	E.A. (State project) /Project No.	Federal-Aid Project No. (Local project)/ Proj. No.
Continued from page 1:			
<ul style="list-style-type: none"> • The bridge deck and spandrels will be removed and replaced in a manner which will recreate the same appearance as the original structures. The center spandrel arch will be filled with concrete to enhance seismic stability by connecting the bridge deck to the arch. • The arch ribs will be reinforced and coated with concrete coating. • The existing modified guard rail will be replaced with a guard rail which meets current safety standards while more closely reflecting the original railing details. • The abutments and retaining walls will be stabilized by inserting soil anchors through the existing walls to anchor the wall to the soil behind the wall. The walls will be faced with up to 9 inches of concrete to hide the soil nails. The façade of the new wall coating will recreate the arches and pilaster imprints of the original walls. • To meet the vertical clearance under the bridge required by FHWA, the surface elevation of University Avenue, beneath the bridge will be lowered by 2.5 feet from the current conditions and about 1.4 feet to 1.9 feet (measured at the center of the roadway) from the historic road elevation. The sidewalks adjoining the retaining walls will be reconstructed to respond to the elevation change. A score line will differentiate between the historic sidewalk elevation and the new sidewalk elevation. <p>The project's retrofit and rehabilitation work will be done in accordance with the Secretary of the Interior's Standards for Treatment of Historic Properties (Standards), as detailed in the project's Historic Properties Survey Report and its technical attachments. The City of San Diego will ensure that all of the proposed work is overseen by a qualified architectural historian including the review and non-signature approval of the project's plans and specifications and the construction phase. Failure to follow the Standards will invalidate this CE.</p>			

APPENDIX E
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

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for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:
 - a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

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inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

- b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

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7. **FEE AND DEPOSIT SCHEDULES**

- 7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. **UNAUTHORIZED USE OF WATER FROM A HYDRANT**

- 8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.
- 8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.
- 8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.
- 8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

**Larry Gardner
Water Department Director**

- Tabs: 1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index: Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders



Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Meter Information

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

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Locatlon 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:	
Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter			

Fire Hydrant Meter Removal Request	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ()	Pager: ()

City Meter	Private Meter
Contract Acct #:	Deposit Amount: \$ 936.00 Fees Amount: \$ 62.00
Meter Serial #	Meter Size: 05 Meter Make and Style: 6-7
Backflow #	Backflow Size: Backflow Make and Style:
Name:	Signature: Date:

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number: _____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # _____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) _____ - _____.

Sincerely,

Water Department

APPENDIX F
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 G
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#:	Fax#:	Contact Name:	Billing Period: (to

Item #	Item Description	Contract Authorization				Previous Totals To Date		This Estimate		Totals to Date	
		Unit	Price	Qty	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1					\$ -		\$ -		\$ -	0.00%	\$ -
2					\$ -		\$ -		\$ -	0.00%	\$ -
3					\$ -		\$ -		\$ -	0.00%	\$ -
4					\$ -		\$ -		\$ -	0.00%	\$ -
5					\$ -		\$ -		\$ -	0.00%	\$ -
6					\$ -		\$ -		\$ -	0.00%	\$ -
7					\$ -		\$ -		\$ -	0.00%	\$ -
8					\$ -		\$ -		\$ -	0.00%	\$ -
9					\$ -		\$ -		\$ -	0.00%	\$ -
10					\$ -		\$ -		\$ -	0.00%	\$ -
11					\$ -		\$ -		\$ -	0.00%	\$ -
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13					\$ -		\$ -		\$ -	0.00%	\$ -
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15					\$ -		\$ -		\$ -	0.00%	\$ -
16					\$ -		\$ -		\$ -	0.00%	\$ -
17	Field Orders				\$ -		\$ -		\$ -	0.00%	\$ -
18					\$ -		\$ -		\$ -	0.00%	\$ -
	CHANGE ORDER No.				\$ -		\$ -		\$ -	0.00%	\$ -
					\$ -		\$ -		\$ -	0.00%	\$ -
					\$ -		\$ -		\$ -	0.00%	\$ -
Total Authorized Amount (including approved Change Order)					\$ -		\$ -		\$ -	Total Billed	\$ -

SUMMARY

A. Original Contract Amount	\$ -
B. Approved Change Order #00 Thru #00	\$ -
C. Total Authorized Amount (A+B)	\$ -
D. Total Billed to Date	\$ -
E. Less Total Retention (5% of D)	\$ -
F. Less Total Previous Payments	\$ -
G. Payment Due Less Retention	\$0.00
H. Remaining Authorized Amount	\$0.00

**I certify that the materials
have been received by me in
the quality and quantity specified**

Resident Engineer

Construction Engineer

Retention and/or Escrow Payment Schedule

Total Retention Required as of this billing (Item E)	\$0.00
Previous Retention Withheld in PO or in Escrow	\$0.00
Add'l Amt to Withhold in PO/Transfer in Escrow:	\$0.00
Amt to Release to Contractor from PO/Escrow:	

Contractor Signature and Date: _____

APPENDIX H
FOUNDATION REPORT

December 11, 2014
Project No. 102875004

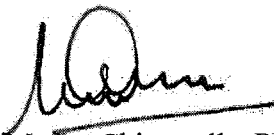
Mr. Nathan Johnson
Kleinfelder/Simon Wong Engineering
550 West C Street, Suite 1200
San Diego, California 92101

Subject: Update Geotechnical Evaluation
Georgia Street Bridge and Retaining Walls Rehabilitation
San Diego, California

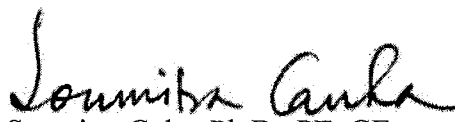
Dear Mr. Johnson:

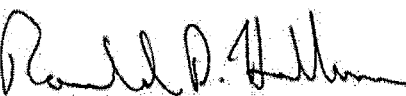
In accordance with your request, we are pleased to submit this supplemental geotechnical evaluation for the Georgia Street Bridge and Retaining Walls Rehabilitation project in San Diego, California. Ninyo & Moore performed geotechnical evaluations addressing the Georgia Street Bridge in 1995 (Ninyo & Moore, 1995). In 2009, we issued a geotechnical report that addressed the associated retaining walls (Ninyo & Moore, 2009). In 2012, we issued an update geotechnical report (Ninyo & Moore, 2012) to address stability analysis of the retaining walls and retrofit options. Since that time, we have performed additional exploratory borings on University Avenue to assess the planned rehabilitation and provided an updated report (Ninyo & Moore, 2014). This update report presents our comprehensive geotechnical findings, conclusions, and recommendations based on our previous and recent additional field explorations of the site. This report also addresses the review comments from Caltrans on our previous updated report (Ninyo & Moore, 2014). We appreciate the opportunity to be of service on this project.

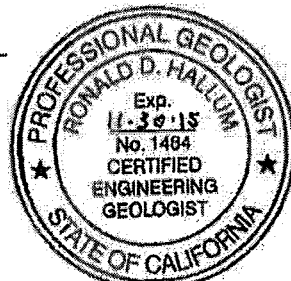
Sincerely,
NINYO & MOORE


Madan Chirumalla, PE, GE
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Chief Engineering Geologist



NMM/MAC/SG/RDH/kh



Distribution: (3) Addressee

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**UPDATE GEOTECHNICAL EVALUATION
GEORGIA STREET BRIDGE AND
RETAINING WALLS REHABILITATION
SAN DIEGO, CALIFORNIA**

PREPARED FOR:

Kleinfelder/Simon Wong Engineering
550 West C Street, Suite 1200
San Diego, California 92101

PREPARED BY:

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
5710 Ruffin Road
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December 11, 2014
Project No. 102875004

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1. INTRODUCTION

In accordance with your request, we have performed a supplemental geotechnical evaluation for the Georgia Street Bridge and Retaining Walls Rehabilitation Project in San Diego, California (Figure 1). Ninyo & Moore had performed earlier geotechnical evaluations for the Georgia Street Bridge (Ninyo & Moore, 1995, 2009, 2012). The evaluations generally assessed the bridge abutment construction materials and soil materials behind the retaining walls west of the bridge. This update report incorporates the results of those evaluations, and presents the results of our recent field explorations on University Avenue, our conclusions regarding the geotechnical conditions at the site, updated seismic and earth pressure parameters, our recommendations for the design of this project in accordance with Caltrans specifications, and addresses the review comments from Caltrans. The purpose of this evaluation is to support the development of the selected method for bridge and retaining wall rehabilitation.

2. SCOPE OF SERVICES

The scope of services for this study included the following:

- Review of readily available background materials including our referenced reports, published geologic maps and literature, in-house information, stereoscopic aerial photographs, historic photographs of the site, and reports and/or as-built plans provided by the client.
- Prepare a request for encroachment permits from the City of San Diego.
- Locate and mark proposed subsurface explorations. Underground Service Alert (USA) was notified to mark underground utilities at the proposed exploration locations.
- Perform an additional subsurface evaluation consisting of drilling three borings in the vicinity of the bridge on University Avenue.
- Assess updated seismic literature for potential geologic hazards affecting the project site.
- Compile existing and recently acquired data and perform engineering analysis of the geotechnical aspects of the proposed project, including a generalized limit equilibrium analysis of the soil materials retained by site walls as outlined by Report 611 (NCHRP, 2008).

- Prepare Log of Test Boring (LOTB) sheets for the borings and test pits performed for the project.
- Prepare this report presenting the results of our field evaluations, laboratory testing, engineering analyses, and our geotechnical conclusions and recommendations.

3. SITE AND PROJECT DESCRIPTION

As noted in the City of San Diego (City of San Diego, 2008) scope of work for this project, the Georgia Street Bridge over University Avenue and its associated retaining walls have been identified as a historic resource. The bridge structure has also been identified as being substandard with regards to seismic capacity.

The subject reinforced concrete bridge and its associated retaining walls were constructed in 1913. It is located at the intersection of Georgia Street and University Avenue in San Diego, California (Figure 1). The bridge provides a single lane for vehicle traffic in each direction and sidewalks for pedestrian traffic for north-south trending Georgia Street over east-west trending University Avenue (Figure 2). The bridge is approximately 67 feet long and 30 feet wide. The elevation at the top of the bridge is approximately 343 feet above mean sea level (MSL). The bridge and retaining walls are up to approximately 30 feet high. Residential structures, streets and sidewalks are behind the retaining walls.

The road deck of the existing bridge is supported by an arch consisting of three ribs (Figure 3). As depicted on design plans for the bridge (City of San Diego, 1912), each arch rib is supported on trapezoidal-shaped abutment footings. Each abutment footing is approximately 4 feet wide by 9 feet long and up to approximately 7½ feet high.

Retaining walls parallel each side of University Avenue for a block in each direction from the bridge (between Park Boulevard and Florida Street). The retaining walls decrease in height to the east and to the west of Georgia Street. According to design drawings (City of San Diego, 1912), the retaining walls consist of reinforced concrete vertical beams and reinforced concrete lagging. The beams are spaced approximately 10 feet on center, are 1 foot wide, and extend approximately 3 feet below the front face finished grade. Deadman anchors (constructed approximately 2 feet below grade) restrain the top of the vertical beams by developing passive resistance in near surface

soils (Figure 4). The retaining wall lagging between beams has a variable thickness of 4 inches at the top with a 1 inch to 10-foot batter. The wall elements are embedded approximately 2 feet below grade at the toe of the wall. The grade is covered by a sidewalk and paved roadway.

Based on review of historical photographs, the area was improved prior to development of the bridge and retaining walls. As depicted in a photograph of the site prior to construction of the bridge and retaining walls (Figure 5), a wooden-truss bridge provided access across University Avenue at Georgia Street. Excavations for University Avenue beneath the truss bridge created sloped backcuts in the adjacent soil materials at a gradient estimated from the photograph to be approximately 1:½ (vertical:horizontal). Railroad tracks depicted in the photograph are understood to be buried.

We understand that the bridge would be retrofitted to meet current seismic design standards and the bridge deck would be replaced. The stabilization method for the abutment walls and retaining walls would include drilled tiebacks and soil nails, respectively. Near surface backfill materials retained by the abutment walls are proposed to be removed and replaced with compacted fill. We also understand that the grade of University Avenue below the bridge will be lowered by approximately 2 to 3 feet, and associated utilities will be deepened or realigned.

4. SUBSURFACE EXPLORATION AND LABORATORY TESTING

Based on the goals of the project study phases, the geotechnical conditions have been assessed in various field exploration programs. Recent explorations consisted of drilling three small-diameter borings on University Avenue in the areas where the street grade is anticipated to be lowered. Our 2012 field evaluation (Ninyo & Moore, 2012) consisted of test pits and a geophysical survey near the top of the retaining walls. Previous explorations in 1995 and 2009 included six small-diameter borings up to 44 feet deep, and several drive resistance probes. Borings performed in 1995 evaluated the soil materials behind the bridge abutments. Borings and probes performed in 2009 evaluated backcut geometry and retained materials behind the retaining walls west of the bridge. The results of those evaluations are incorporated into this discussion of our subsurface exploration and geotechnical laboratory testing.

4.1. Soil Borings

As part of our recent subsurface evaluation, three small-diameter exploratory borings (B-7 through B-9) were drilled on January 23, 2014 on University Avenue (Figure 2). The borings were drilled to depths of up to approximately 11.5 feet below grade using a truck-mounted, hollow-stem auger drill rig. During our previous subsurface evaluations of the site, two small-diameter, exploratory borings (B-1 and B-2) were drilled, logged, and sampled on February 9, 1995 behind the bridge abutments and four small-diameter exploratory borings (B-3 through B-6) were drilled, logged, and sampled on February 11, 2009. These borings were drilled adjacent to the retaining walls and behind the northern abutment. The borings were drilled to depths of up to approximately 44 feet below grade using a truck-mounted hollow-stem auger drill rig.

Drive and bulk soil samples were obtained from the borings. The samples were transported to our in-house geotechnical laboratory for testing. The approximate locations of the exploratory borings are shown on Figure 2. Log of test boring (LOTB) sheets are provided in Appendix A.

4.2. Test Pits

As part of our previous subsurface evaluations of the site, two exploratory test pits were excavated and logged on December 20, 2011. The test pits were excavated by hand and temporarily shored to depths of up to approximately 7 feet below grade. The approximate locations of the exploratory test pits are shown on Figure 2. Log of test boring/test pit (LOTB) sheets are provided in Appendix A.

4.3. Geophysical Survey

Our previous subsurface explorations included a low-frequency, ground penetrating radar (GPR) survey conducted on December 22, 2011. The location of the survey was generally near the bridge and behind the retaining walls. The survey lines were arranged perpendicular to the retaining walls or bridge abutment in areas where access permitted reasonable results (e.g. were not impacted by improvements). A California-registered geophysicist conducted and interpreted the survey. The results of the survey and the estimated geologic contact at a depth of approximately 5 feet are shown on Figure 2.

4.4. Drive Resistance Test Probes

In 2009, fourteen drive resistance test probes were performed over four test areas at the site in an effort to evaluate the extent of backfill materials behind the retaining walls. The probes were advanced up to a depth of approximately 29 feet. The test areas were selected behind the retaining walls and in the vicinity of the bridge abutment. The tests consisted of driving a blunt-tipped, 2-inch-diameter, smooth steel rod casing through the soil using a 90-pound jackhammer. By recording the rate of advance, a qualitative assessment of the geologic contact between fill and native soils at depth was estimated. The rate of advancement was measured in units of seconds per foot. The collected data was reduced and plotted along the four test areas to evaluate the geologic contact. Reduced data regarding penetration rates are provided in Appendix B. The approximate locations of the driving resistance tests are shown on Figure 2. Further discussion of the results of the probes is presented in our Site Geology section of this report.

4.5. Laboratory Testing

Geotechnical laboratory testing of representative soil samples included in-situ dry density and moisture content, gradation, expansion index, direct shear strength, soil corrosivity, and R-value. The results of the in-situ dry density and moisture content tests are presented on LOTB sheets in Appendix A. The results of the other laboratory tests are presented in Appendix C.

5. GEOLOGY AND SUBSURFACE CONDITIONS

The project area is situated in the coastal section of the Peninsular Ranges Geomorphic Province. This geomorphic province encompasses an area that extends approximately 900 miles from the Transverse Ranges and the Los Angeles Basin south to the southern tip of Baja California (Norris and Webb, 1990; Harden, 2004). The province varies in width from approximately 30 to 100 miles. In general, the province consists of rugged mountains underlain by Jurassic metavolcanic and metasedimentary rocks, and Cretaceous igneous rocks of the southern California batholith.

The Peninsular Ranges Province is traversed by a group of sub-parallel faults and fault zones trending roughly northwest. Several of these faults are considered active. The Elsinore, San Jacinto, and San Andreas faults are active fault systems located east of the project area and the Rose Canyon, Coronado Bank, San Diego Trough, and San Clemente faults are active faults located west of the project area. The Rose Canyon Fault is the nearest active fault system and has been mapped at a distance of approximately 1.3 miles (2.1 kilometers) to the west of the project site. Major tectonic activity associated with these and other faults within this regional tectonic framework consists primarily of right-lateral, strike-slip movement.

5.1. Site Geology

Geologic units encountered during our subsurface evaluation included fill and the San Diego Formation (Kennedy and Tan, 2008). Our subsurface findings are generally consistent with those of our previous geotechnical findings for the site (Ninyo & Moore, 1995, 2009, 2012).

The design plans for the bridge (City of San Diego, 1912) indicate that the abutments, walls, and deadman anchors were to be excavated and placed in contact with "original, undisturbed ground." As observed during our recent and previous subsurface evaluation, fill soils were encountered behind the abutment walls, and to some degree, behind the retaining walls. These findings agree with historical photographs, which suggest an inclined backcut existed prior to the construction of the bridge and retaining walls (Figure 5). Asphalt concrete (AC) and Portland cement concrete (PCC) pavement was encountered in borings and the thickness is presented in the following summary table.

Table 1 – Existing Pavement Sections

Location	Pavement Section Thickness
Boring B-1 (Georgia Street)	3.0 inches AC over 6.0 inches concrete (curb)
Boring B-2 (Westbound Off-ramp)	3.0 inches concrete sidewalk
Boring B-3 (Westbound On-ramp)	6.0 inches AC over 12.0 inches PCC
Boring B-4 (Westbound On-ramp)	4.0 inches AC over 8.0 inches PCC
Boring B-5 (Eastbound On-ramp)	6.0 inches AC over 6.0 inches PCC
Boring B-6 (Westbound Off-ramp)	4.0 to 6.0 inches AC
Boring B-7 (University Avenue)	9.0 inches AC over 5.0 inches PCC
Boring B-8 (University Avenue)	9.0 inches AC over 6.0 inches PCC
Boring B-9 (University Avenue)	9.0 inches AC over 5.0 inches PCC

5.1.1. Fill

Fill soils were encountered during our subsurface explorations to depths of up to approximately 22 feet. The fill soils generally consisted of yellowish brown to dark brown and olive, damp to wet, very loose to medium dense, clayey sand, silty sand and sandy silt or soft, sandy clay. Some gravel and cobbles, and occasional boulders were also encountered.

The driving resistance penetration rates presented in Appendix B were used to estimate the approximate fill thickness related to the distance from the face of the retaining walls at the four test areas as follows:

- P-1 through P-4: The fill prism at this area was estimated to be approximately 11 feet thick at 3.5 feet from the face of the wall and was estimated to be approximately 6 feet thick at 13 feet from the wall.
- P-5 through P-8: The fill prism at this area was estimated to be approximately 21 feet thick at 1.5 feet from the face of the wall and was estimated to be approximately 5 feet thick at 15 feet from the wall.
- P-9 through P-11: The results of the test were considered inconclusive.
- P-12 through P-14 (South Abutment): The fill prism at this area was estimated to be approximately 4 feet thick at 20 feet from the face of the wall and was estimated to be approximately 3 feet thick at 26 feet from the wall.

In addition, at the northern bridge abutment, the fill prism was observed to be approximately 22 feet thick in Boring B-2 at 3 feet from the abutment and approximately 20 feet thick in Boring B-6 at 7 feet from the abutment. The estimated geologic contact behind the bridge abutments is shown in Geologic Cross Section A-A' on Figure 3. The estimated contact behind retaining walls at one of the surveyed locations is shown in Cross Sections B-B' on Figure 4.

5.1.2. San Diego Formation

Materials correlating to units of the San Diego Formation, which includes marine sandstone and cobble conglomerate (Kennedy and Tan, 2008) were encountered underlying the fill or pavement to the depths explored. The encountered formational materials consisted gener-

ally of olive gray and light yellowish brown, damp to wet, weakly to moderately cemented, silty fine-grained sandstone and fine sandy siltstone. In our previous Borings B-1 and B-2 (Ninyo & Moore, 1995), refusal to drilling was encountered on a bed of strongly cemented gravel/cobbles at a depth of approximately 41 feet (approximate elevation 302 feet MSL). At a similar elevation, gravel/cobbles were encountered in boring B-9 beneath University Avenue. This condition is illustrated in Geologic Cross Section A-A' on Figure 3. This condition of strongly cemented areas and beds of gravel and cobble is consistent with our observations at similar sites within the San Diego Formation.

5.2. Groundwater

Although groundwater was not encountered in our exploratory borings, wet to saturated conditions were encountered in fill and formational soils in Borings B-1, B-2, B-5, B-6, and TP-2. These findings may be indicative of perched groundwater and seepage conditions. Fluctuations in the groundwater level and further perched conditions may occur due to variations in ground surface topography, subsurface geologic conditions and structure, rainfall, irrigation, and other factors.

5.3. Site Seismicity

The subject site is located in a seismically active area, as is the majority of southern California. Based on our background review and site reconnaissance, the ground surface in the vicinity of the subject site is not transected by known active faults. The site is not located within a State of California Seismic Hazards Zone or Earthquake Fault Zone (Hart and Bryant, 1997). However, the potential for strong ground motion at the site is considered significant.

Based on our subsurface evaluation, we estimated an average shear wave velocity of 300 meters per second (mps) within the upper 30-meter of the surface (V_{s30}) based on correlations between SPT blow counts and vertical effective stress for soil. This average shear wave velocity corresponds to a soil profile type D by the National Earthquake Hazard Reduction Program (Building Seismic Safety Council, 1997).

Based on the Caltrans ARS online web tool and a design V_{s30} value of 300 mps, we have presented in Table 2 below a list of selected known active faults in the area, approximate fault-to-site distances, type of fault displacement, and the Maximum Moment Magnitude (M_{max}). The M_{max} is defined as the largest earthquake that is considered to be reasonably capable of occurring under the conditions of the presently known geological framework.

Table 2 – Seismic Parameters for Maximum Earthquakes

Fault Name	Fault I.D. Number ¹	Site Distances ² (miles)			Fault Type ²	Maximum Moment Magnitude ² (M_{Max})
		R_x	R_{jb}	R_{rup}		
Rose Canyon fault zone (Silver Strand Section- Downtown Graben fault)	410	0.78	1.92	1.92	SS	6.8
Rose Canyon fault zone (San Diego Section)	405	1.93	1.93	1.93	SS	6.8
Rose Canyon fault zone (Silver Strand Section- Silver Strand fault)	411	1.24	2.34	2.34	SS	6.8
Notes: ¹ Caltrans Deterministic Fault Database, V2a 2013 ² Caltrans ARS Online Web Tool, V2.3.06 2013 R_x – Perpendicular distance from the site to the surface projection of the top of the fault R_{jb} – Distance from the site to the closest surface projection of the fault plane R_{rup} – Closest distance from the site to any point on the fault plane SS - Strike Slip						

5.3.1. Surface Fault Rupture

Surface fault rupture is generally caused by relative displacement across a fault during an earthquake. No active or potentially active faults are known to underlie the project site; therefore, the potential for surface fault rupture is considered to be low.

The north-south trending Florida Canyon fault is mapped as crossing the western side of the bridge in the City of San Diego Seismic Safety Study map (City of San Diego, 2008), shown on Figure 6. However, this fault is not considered active by the State of California and is not considered a significant source of seismic activity.

5.4. Ground Motion

Considering the proximity of the site to active faults capable of producing a maximum moment magnitude of 6.8, the project area has a high potential for experiencing strong ground motion. Based on the Caltrans Acceleration Response Spectra (ARS) (Caltrans, 2013), the design seismic event with respect to the proposed improvements should be an earthquake associated with the Rose Canyon fault zone. Based on our evaluation using the Caltrans ARS (Caltrans, 2013) and the probabilistic PGA from the USGS (USGS, 2011) ground motion calculator (web-based), it is our opinion that a design PGA of 0.44g is appropriate for the site. The design ARS curve evaluated for the site is presented on Figure 7.

The distance of the proposed bridge structure from the controlling fault is less than 10 miles. Based on the Caltrans SDC, modifications should be made to account for the near-fault effects. The design response spectrum curve presented on Figure 7 incorporates these modifications.

5.4.1. Ground Motion for Temporary Condition

Based on your request, we have evaluated probabilistic spectral accelerations for a return period of 94 years (i.e., 20% probability of exceedance in 21 years or nearly equivalent to 10% probability of exceedance in 10 years). We understand that these accelerations will be used in design for temporary condition (i.e., during construction). The probabilistic spectral accelerations were evaluated using the 2008 USGS Interactive Deaggregation (Beta) website (2008) and presented in Table 3.

Table 3 – Spectral Accelerations for Temporary Condition

Period, T (seconds)	Spectral Acceleration, Sa (g)
0.0	0.105
0.1	0.181
0.2	0.243
0.3	0.242
0.5	0.202
1.0	0.130
2.0	0.068
3.0	0.042
4.0	0.030
5.0	0.024

5.5. Liquefaction and Seismically Induced Settlement

Liquefaction of cohesionless soils can be caused by strong vibratory motion due to earthquakes. Research and historical data indicate that loose granular soils and non-plastic silts that are saturated by a relatively shallow groundwater table are susceptible to liquefaction. Based on the absence of groundwater and the relatively dense nature of the underlying San Diego Formation, it is our opinion that liquefaction and seismically induced settlement at the subject site are not design considerations.

However, relatively dry soils (e.g., soils above the groundwater table) with low density or softer consistency tend to undergo a degree of compaction during a seismic event. Earthquake shaking often induces significant cyclic shear strain in a soil mass, which responds to the vibration by undergoing volumetric changes. Volumetric changes in dry soils take place primarily through changes in the void ratio (usually contraction in loose or normally consolidated soft soils, and dilation in dense or overconsolidated stiff soils) and secondarily through particle reorientation. Such volumetric changes are generally non-recoverable.

The likely settlement induced by dynamic compaction of relatively dry fill soil layers was calculated using the method proposed by Tokimatsu and Seed (1987). Under the current conditions, the existing fill soils up to a depth of approximately 22 feet are estimated to undergo a total post-earthquake settlement of approximately 3 inches.

5.6. Landsliding

Based on our review of published geologic literature, aerial photographs and our subsurface evaluation, no landslides or related features underlie or are adjacent to the subject site.

5.7. Lateral Earth Pressure Analysis

The lateral earth pressure analysis presented in our previous geotechnical report (Ninyo & Moore, 2009) for the project was based on methods adopted from the Mononobe-Okabe analysis method, which assumes a cohesionless backfill, but modified to consider effects of soil cohesion. However, due to the relatively complex backslope geometry (see Section 6 for

our discussion), we evaluated the active and dynamic earth pressures on the retaining walls using methods described in National Cooperative Highway Research Program (NCHRP) Report 611, Section 7.4 (NCHRP, 2008). These methods model the backfill and retained cut using generalized limit equilibrium slope stability analysis methods to account for the apparent cohesion inherent in the moist soil materials.

5.7.1. Limit Equilibrium Analysis

Cross-section B-B' (Figure 4) was prepared based on the generalized geometry of the geologic contact evaluated from our subsurface evaluation and background review discussed earlier in this report. We used the computer program SLOPE/W (Geo-Slope International, 1999) and the Spencer's method to perform the limit equilibrium slope stability analysis. The shear strength parameters used in our stability analyses (presented in the table below) were developed based on the laboratory test results and our professional judgment. The value of cohesion for the formational material indicated for pseudo-static strength evaluation was selected from the analysis as further described below.

Table 4 – Strength Parameters Used in Slope Stability Evaluation

Earth Material	Static Strength		Pseudo-Static Strength	
	Cohesion, c (psf)	Friction, ϕ (degree)	Cohesion, c (psf)	Friction, ϕ (degree)
Fill	60	27	60	27
Formation	230	34	460	34
Note: psf = pounds per square foot				

Assuming a smooth wall, the lateral earth pressures acting on the wall were modeled in the program by a resultant resisting force. The resultant force was located at approximately one-third the height of the wall to represent a triangular pressure distribution recommended by the literature for static and dynamic earth pressures (Caltrans, 2011). This pressure distribution is generally utilized for gravity retaining walls, but may be appropriate for simply restrained wall systems. The resultant value was iterated in the model to provide a factor of safety of approximately one. The resultant was converted to an

equivalent fluid pressure based on the exposed height of the wall at the cross section location (i.e., 33 feet). The results of the analysis are presented in Appendix D.

5.7.2. Model Calibration

To calibrate the model, the soil parameters were adjusted to represent cohesionless materials. A failure surface was specified to coincide with a surface predicted by our Rankine soil analysis. The resulting force generally agrees with the predicted force from our Rankine analysis (Figure D-1). The failure surface was then relaxed to coincide with the surface predicted by our Mononobe-Okabe analysis (Figure D-2). The resulting force generally agrees with the predicted force from our Mononobe-Okabe analysis.

5.7.3. Wall Equilibrium

We previously calculated earth pressures on the wall based on soil parameters derived from our laboratory analysis. Based on the structural engineer's analysis that indicated that the static earth pressures provided resulted in an overestimation of the soil demand on the wall (based on wall performance to date), we back-calculated the soil cohesion which would present a demand to capacity factor of safety of one for the walls. Given the soil load that satisfies the wall equilibrium as provided by the structural engineer, our back-calculation indicated that a soil cohesion of approximately 460 pounds per square foot (psf) is appropriate (Figure D-3). The failure surface to satisfy this condition varies from the calibrated surface, due to cohesion effects. Therefore, to allow convergence of the model, curvature was introduced into the specified and iterated failure surface. This back-calculated moist soil cohesion value is reasonable considering that moist sand can provide significant apparent soil cohesion by virtue of negative pore pressures (i.e., suction or capillary action).

5.7.4. Design Earth Pressures

The model was further used to evaluate the static and dynamic earth pressures. The static earth pressure was evaluated using the laboratory-derived soil strength parameters (Figure D-4) to represent adverse soil conditions (i.e., wetting or drying of the granular formation).

For estimating dynamic earth pressures, our pseudo-static analysis considered a horizontal ground acceleration coefficient of 0.25g. The selection of such a ground acceleration assumes the retaining wall is relatively flexible and can tolerate average movement in the system on the order of 1 to 2 inches, and that very firm (i.e., stiff) ground conditions underlie the wall. Although not considered, a height-dependent scaling factor on the order of 85 percent of the horizontal coefficient may be justified for higher portions of the retaining walls (NCHRP, 2008). The results of the analysis using laboratory soil parameters is shown in Figure D-5. The dynamic earth pressure was also evaluated using the back-calculated soil strength parameters to represent conditions statistically representative during such an event (Figure D-6).

A summary of the lateral earth pressures approximately equivalent to the iterated resultant in the model is shown in Table 5 below. These lateral earth pressures do not account for surcharges, which should be evaluated separately.

Table 5 – Lateral Earth Pressures from Slope Stability Analysis

Analysis Condition	Resultant Force (lb)	Equivalent Fluid Pressure (pcf)
Figure D-1 - Calibration to Rankine Active Earth Pressure	17,800	33H
Figure D-2 - Calibration to Mononobe-Okabe Total Dynamic Pressure	29,400	54H
Figure D-3 – Backcalculated Cohesion, Static Moment Equilibrium	3,000	5.5H
Figure D-4 – Static Earth Pressure	6,500	12H
Figure D-5 – Total Dynamic Earth Pressure, Laboratory Soil Parameters	18,000	33H
Figure D-6 – Total Dynamic Earth Pressure, Equilibrium Soil Parameters	13,500	25H

Based on Caltrans Trenching and Shoring Manual, the active lateral earth pressure acting over the wall height shall not be less than 0.25 times the effective overburden pressure at any depth, or 0.036 ksf/ft of wall height, which ever is greater. Based on this, the minimum active lateral earth pressure represented by an equivalent fluid weight is 36 H pcf. The project designers should select appropriate lateral earth pressures for design.

6. DISCUSSION AND CONCLUSIONS

The design plans for the bridge (City of San Diego, 1912) indicate that the abutments, walls, and anchors were to be excavated and placed in contact with "original, undisturbed ground." As observed during our recent and previous subsurface evaluations, fill soils were also encountered behind the abutment walls and retaining walls both west and east of the bridge. Further, fill was encountered beneath pavement and walkways near the bridge.

To account for this finding, we reviewed an available historic site photograph taken prior to the subject bridge construction when the excavation for University Avenue was maintained as a sloped backcut (Figure 5). Although the actual width of the excavation for University Avenue is difficult to ascertain from the 1907 photograph, University Avenue is estimated to currently be approximately 20 feet wider than in 1907. It is reasonable to assume that the toe of the backcut slopes may have been removed to accommodate the additional street width and to support the construction of the retaining walls. Hence, the backcuts existing behind the retaining walls are anticipated to be near vertical, undisturbed formation in the lower portions of the wall, but may retain backfill between the former 1:½ (vertical:horizontal) backcut in the upper portions of the wall. Consistent with the wall alignment and this theory, the geophysical survey (Figure 2) noted a steep change in the depth to a possible material contact. Further, the subsurface data and geophysical survey suggests that the grade behind the retaining walls near the bridge site was raised approximately 6 feet, potentially to accommodate the clearances needed for the new concrete arch bridge. Therefore, near the bridge, the shallow, deadman tie anchors are likely restrained by fill. It is estimated that this fill thickness decreases away from the bridge, as encountered in test pit TP-2 (Figure 3). This fill, encountered in borings and our test pit near the bridge, varied between loose and dense.

Based on available data, we estimate that the transition between formation and fill (immediately behind the retaining walls) is typically up to approximately 12 feet below the upper street or sidewalk grade. This contact is significantly deeper at the bridge abutment to accommodate the excavations needed for the bridge abutment footings.

Documentation regarding these fills was not available. However, our observations indicated that abutment backfills were loosely placed and settled over time. For example, during our evaluation in 1995, an approximately seven-inch void was noted below the sidewalk at Boring B-2 at the northern bridge abutment. The results of the geophysical survey also suggested voids beneath the surface in this area. Furthermore, the elevations of curbs above the bridge abutments are approximately the same elevation of the roadway, suggesting asphalt may have been used to fill areas of settlement above the abutment backfill. Boring B-1, approximately 30 feet from the bridge abutment, indicates that a six-inch deep curb is buried by 3 inches of asphalt concrete.

Based on our review of the referenced background data, subsurface evaluation, and laboratory testing, it is our opinion that the proposed rehabilitation of the bridge and adjoining retaining walls is feasible from a geotechnical standpoint provided the recommendations presented in this report are incorporated into the design and construction of the project.

Based on our review of previous subsurface data, laboratory testing, geophysical evaluation, bridge drawings, a historic photograph of the site prior to bridge construction, and our recent subsurface evaluation, the following conclusions were made:

- The project site is underlain by fill and materials of the San Diego Formation. Where the fill material is generally associated with abutment and retaining wall backfill soils, the fill was encountered as silty sand, clayey sand and sandy silt and sandy clay with gravel and cobbles and was very loose to medium dense. Where the fill was encountered further away from the retaining walls (i.e., above the wall backfill materials), the fill consisted of medium dense, silty to clayey sand and sandy clay with gravel, cobbles, and boulders. Where the formation was encountered behind the retaining walls, it generally consisted of weakly to moderately cemented, fine sandstone and fine sandy siltstone. Strongly cemented zones were encountered in the formation below the walls and University Avenue.
- Groundwater is not anticipated to be a design consideration, although seepage should be anticipated in excavations. Because drainage measures were not incorporated into the design of the existing retaining walls and abutments, standing water may be anticipated behind the retaining walls. Therefore, rehabilitation measures should include provision for drainage.
- The loose and/or wet, granular materials encountered at the site will be subject to caving in excavations, particularly those drilled near to horizontal. The presence of gravel, cobbles, and boulders will add further difficulty to excavations at the site. Cemented sandstone with cobbles below University Avenue, and possibly other areas, will make trenching difficult and may entail heavy ripping and possibly some rock breaking should utilities be relocated or deepened.

- Ground anchors and/or soil nails may be used to rehabilitate the retaining walls and abutments. However, drilling may encounter difficulties with wet, cobbly soil and casing will likely be needed to mitigate caving.
- The abutment approach has been subject to settlement of underlying backfill materials. However, these settlement sensitive backfill materials extend relatively deep (up to the depth of the backfill above the abutment footings). To mitigate further settlement of the new deck transition, we recommend removal and replacement of the backfill material to a depth of approximately 4 feet.
- The active Rose Canyon fault zone is located approximately 0.8 miles (1.2 kilometers) away from the site. Accordingly, the potential for relatively strong seismic ground motions should be considered in the project design.
- The subject site is not located within a State of California Earthquake Fault Zone (Alquist-Priolo Special Studies Zone), and based on our review of published geologic maps, there are no known active faults mapped underlying the site. Therefore, the potential for surface fault rupture at the site is considered low. The north-south trending Florida Canyon fault is mapped as crossing the western side of the bridge in the City of San Diego Seismic Safety Study map (City of San Diego, 2008). However, this fault is not considered active by the State of California and is not considered a significant source of seismic activity.
- The presence of fractures or weak zones associated with the Florida Canyon fault may impact potential excavations or trench wall stability.
- The potential for dynamic compaction of dry soils during an earthquake is considered likely.
- Based on our seismic hazard analysis, the peak ground acceleration is also estimated as 0.44g.
- Based on the Caltrans (2012) corrosion criteria, the project site would be classified as a corrosive site.

7. RECOMMENDATIONS

Based on the results of our subsurface evaluation and our understanding of the proposed rehabilitation, we present the following geotechnical recommendations relative to the analysis of the existing bridge and retaining walls and design of proposed improvements.

7.1. Remedial Grading

The abutment approach has been subject to settlement of underlying backfill materials. However, these settlement sensitive backfill materials extend relatively deep (up to the depth of the backfill above the abutment footings). To mitigate further settlement of the deck transition, we recommend removal and replacement of the backfill material to a depth of approximately 4 feet.

7.1.1. Site Preparation

Prior to performing site excavations, the surface areas should be cleared of existing vegetation, surface obstructions, and other deleterious materials. Existing utilities within the project limits should be re-routed or protected from damage by construction activities. Vegetation and debris from the clearing operations should be disposed of at a legal dumpsite away from the project area. Obstructions that extend below the finish grade should be removed and the resulting holes filled with compacted fill.

7.1.2. Excavation Characteristics

We anticipate that excavation in the fill and native materials present on site will be accomplished with heavy-duty equipment in good operating condition. Based on the results of our subsurface exploration, we expect that the subsurface soils will consist of oversized materials (i.e., cobbles and boulders), friable sands, and wet or cemented zones. Thus, the contractor should be prepared to take appropriate measures to address the presence of these conditions.

7.1.3. Temporary Excavations and Shoring

We recommend that temporary excavations be designed and constructed in accordance with Occupational Safety and Health Administration (OSHA) regulations. These regulations provide trench sloping and shoring design parameters for excavations up to 20 feet deep based on the soil types encountered. For planning purposes, we recommend that the following OSHA soil classifications be used for temporary excavations and other purposes:

<i>Fill</i>	<i>Type C</i>
<i>San Diego Formation</i>	<i>Type B</i>

Upon making the excavations, the soil classifications and excavation performance should be evaluated in the field by Ninyo & Moore in accordance with OSHA regulations. Recommendations for temporary shoring can be provided, if requested. Excavation slope surfaces should be kept moist to retard raveling and sloughing. Water should not be allowed to flow over the top of excavations in an uncontrolled manner. Stockpiled material and/or equipment should be kept back from the top of excavations a distance equivalent to the height of the excavation or more. Workers should be protected from sloughing and raveling of the cut in accordance with OSHA regulations. We recommend that excavation slopes be observed by Ninyo & Moore so that appropriate additional recommendations based on actual field conditions may be provided. Temporary excavations are time sensitive, and failures are possible.

Groundwater, if encountered, should be dewatered by sumping and pumping, as appropriate. If foundation materials are disturbed during excavation, the loosened material should be removed and recompacted to a relative compaction of 95 percent as evaluated by ASTM Test Method D 1557. Alternatively, the loosened material may be replaced with lean concrete.

7.1.4. Fill Material

In general, the existing on-site soils should not be considered suitable for reuse as fill material, unless special handling is included. On-site and import fill material should be free of trash, debris, or other deleterious material. Material for use as fill should not contain rocks or lumps greater than approximately 3 inches in size. Fill material should generally be granular soils with a very low to low expansion potential (i.e., with an expansion index of 50 or less). Import material should also be generally non-corrosive in accordance with the Caltrans (2012) corrosion guidelines. Materials for use as fill should be evaluated by Ninyo & Moore's representative prior to filling or importing. The contractor should be responsible for the uniformity of imported materials brought to the site.

Structure backfill should conform to the requirements of Section 19 of Caltrans Standard Specifications (2010). Structure backfill should be compacted to a relative compaction of 95 percent in accordance with ASTM D 1557, should have a sand equivalent (SE) of 20 or more, and conform to the gradation presented in Table 6.

Table 6 – Gradation for Structure Backfill

Sieve Size	Percent Passing by Weight
3 inches	100
No. 4	35-100
No. 30	20-100

7.1.5. Fill Placement and Compaction

Prior to placement of compacted fill, if any, the contractor should request an evaluation of the exposed ground surface by Ninyo & Moore. Unless otherwise recommended, the exposed ground surface should then be scarified to a depth of approximately 8 inches and watered or dried, as appropriate, to achieve moisture contents generally above the laboratory optimum moisture content. The scarified materials should then be compacted to 95 percent relative compaction in accordance with ASTM D 1557. The evaluation of compaction by the geotechnical consultant should not be considered to preclude any requirements for observation or approval by governing agencies. It is the contractor's responsibility to notify the owner representative and the appropriate governing agency when project areas are ready for observation, and to provide reasonable time for that review.

Fill materials should be moisture conditioned to generally above the laboratory optimum moisture content prior to placement. The optimum moisture content will vary with material type and other factors. Moisture conditioning of fill soils should be generally consistent within the soil mass. Prior to placement of additional compacted fill material following a delay in the grading operations, the exposed surface of previously compacted fill should be prepared to receive fill. Preparation may include scarification, moisture conditioning, and recompaction as outlined above. Compacted fill should be placed in horizontal lifts of approximately 8 inches in loose thickness. Prior to compaction, each lift should be watered or dried as appropriate to achieve a moisture content

generally above the laboratory optimum, mixed, and then compacted by mechanical methods to 95 percent relative compaction as evaluated by ASTM D 1557. Successive lifts should be treated in a like manner until the desired finished grades are achieved.

7.2. Abutment Wall

An effective soil passive lateral resistance of 5 kips per square foot (ksf) may be used for the abutment wall with a height of 5½ feet or greater for dynamic analyses. For abutment walls with other heights, the passive lateral resistance may be calculated proportionally using the formula in accordance with Section 7.8.1 of the Caltrans Seismic Design Criteria (Caltrans, 2010):

$$\text{Passive Lateral Resistance} = (h_{\text{bw}} \text{ or } h_{\text{dia}}/5.5) \times 5 \text{ ksf}$$

Where, h_{bw} = abutment backwall height, h_{dia} = abutment diaphragm height.

The lateral earth pressures at abutment walls were evaluated based on the existing loose fill soil conditions and are shown on Figure 8. Assuming potential lateral restraint from the existing bridge deck and deadman anchors, a trapezoidal pressure distribution was selected for the existing condition based on the Caltrans Trenching and Shoring Manual (2011). The designer should also consider surcharge loads above the walls. For design purposes, loads should be considered within the active failure plane of soil behind the abutment wall, assumed at an angle of 30 degrees from vertical with a horizontal offset of approximately 5 feet from the back face of the wall. This zone can be conservatively estimated to be located within a 1:1 plane from the bottom of the wall (i.e., within a lateral distance equal to the height of the wall).

To evaluate portions of the abutment wall once supplemental anchors are loaded, the allowable bearing capacity of existing abutment backfill material (i.e., loose sand) may be assumed to be 1,500 psf. This value is based on a factor of safety of 3.0. Otherwise, existing, loose, abutment backfill materials may be modeled using an initial stiffness of 15 kips per inch per foot. Where abutment backfill materials are removed and replaced with compacted fill, the stiffness values provided in Seismic Design Criteria, Section 7.8.1 (Caltrans, 2010) could be used. Backfill

should meet the gradation and compaction requirements for Structure Backfill as presented in Section 19-3.02B of the Standard Specifications (Caltrans, 2010).

The abutment approach has been subject to settlement of underlying backfill materials. However, these settlement sensitive backfill materials extend relatively deep (up to the depth of the backfill above the abutment footings). To mitigate further settlement of the new deck transition, we recommend removal and replacement of the backfill material to a depth of approximately 4 feet. Should removal and replacement of abutment backfill be specified, care must be taken not to damage or undermine the existing deadman anchors. For active deadman anchors, the existing deadman anchor passive wedge zone can be assumed to be three times the depth of the deadman. If temporary excavations will encroach into this zone, a staged construction may be needed during removal and replacement of backfill, such as slot cutting at the anchor locations. Slot cutting would involve making excavations in small sections, backfilling the excavations with compacted soils before proceeding with new excavations.

Tiebacks are considered for the abutment walls and soil nails are considered for the retaining walls, Therefore, we recommend that construction joints be provided between abutment walls and retaining walls to account for stiffness incompatibility.

7.3. Abutment Footings

Spread footings founded 2 feet or more into undisturbed formational materials may be analyzed with an ultimate bearing pressure of 24 kips per square foot (ksf). Allowable bearing capacity should be based on a factor of safety of three. This allowable bearing capacity (i.e., 8 ksf) may be increased by up to one-third when considering loads of short duration such as wind or seismic forces. Based on our analyses, total and differential settlement of the spread footings should generally not exceed 1 inch and 1/2 inch, respectively, under the design foundation loads. For footings 4 feet wide or wider and for existing abutment arch rib footings, a soil spring value of 500 kips per inch is conservatively estimated for evaluating strains in the soils beneath loaded footings, assuming the footing was constructed on rela-

tively undisturbed formational materials as specified. This soil spring value is applicable to both the service and seismic conditions.

For frictional resistance to lateral loads, we recommend a coefficient of friction of 0.4 be used between soil and concrete. If passive and frictional resistance is to be used in combination, we recommend that the passive value not exceed one-half of the total resistance. The passive resistance values may be increased by one-third when considering loads of short duration such as wind or seismic forces.

7.4. Lateral Restraint of Abutment and Retaining Walls

Deadman anchors restrain the top of the abutment and retaining walls (constructed approximately 2 feet below grade) by developing passive resistance in near surface soils (Figure 4). However, the condition of the deadmen or ties are not known and may have been compromised by various trenching activities above the walls. Additional restraint is proposed for the project using tieback and soil nail earth anchors. Parameters for the evaluation of these anchors are provided below.

7.4.1. Deadman Anchors

Our evaluation indicates that generally the soils adjacent to the deadmen are dense granular fill materials. Therefore, the lateral resistance provided by the deadman anchors may be approximated by procedures outlined by Caltrans (2011) assuming an allowable passive resistance from a fluid with an equivalent unit weight of 450 pounds per square foot. The passive resistance values may be increased by one-third when considering loads of short duration such as wind or seismic forces.

7.4.2. Tieback Anchors

We understand that tiebacks will be considered to facilitate the stability of the abutment walls. The soil pressure diagram for abutment wall restrained by tieback anchors and deadman anchors can be approximated by Figure 9. This soil pressure diagram is also applicable for various stages of construction of the tiebacks as currently pro-

posed. The designer should also include surcharge loads located within a 1:1 plane from the bottom of the wall, i.e., within a lateral distance equal to the height of the wall.

Tiebacks may consist of either multi-strand steel tendons or steel bars placed in inclined drilled holes and backfilled with low-slump concrete grout. Care should be taken to maintain a horizontal and vertical separation of 5 feet or more between individual tiebacks. The tiebacks should be inclined between 10 and 40 degrees below horizontal, and should be between 5 and 16 inches in diameter. The unbonded lengths of tiebacks should be evaluated by the designer based on the structural evaluations and the recommendations provided herein. However, the unbonded length of tiebacks should not be less than 15 feet. The bonded length should not be less than 10 feet for steel bars (ASTM A722 Type II) and 15 feet for steel strands (ASTM A416). The bonded length should be outside the active failure plane wedge as defined in our Abutment Wall section within competent formational materials. For planning purposes, anchors can be designed assuming an ultimate pullout unit capacity (bond stress) of 25 pounds per square inch using post-grout methods. Actual capacity may vary depending on installation methods. The contractor can evaluate the appropriate bonded length. However, we recommend tieback anchors be pull tested in general accordance with the Post Tension Institute (PTI) guidelines (PTI, 2004).

Multi-strand tendon or bar, corrosion-resistant anchors should be installed in drilled holes using centering devices to improve anchor uniformity. The anchor holes should be filled with concrete placed using tremie techniques out to the limit of the unbonded length. The unbonded length should remain ungrouted or sleeved until after testing and lock-off of the anchor. Permanent anchors should be backfilled with lean-mix concrete after anchor testing. We anticipate that there is a potential for caving of soils. If caving occurs, the unbonded length should be backfilled with well-compacted sand or casing during testing. The sand or casing should be removed and replaced with lean-mix concrete after testing.

Based on the types of material encountered, drilling of the tiebacks is anticipated to be difficult, but generally feasible with heavy-duty equipment in good working order. We recommend that a qualified contractor evaluate a suitable method for excavation of the tiebacks.

7.4.3. Soil Nails

We understand that soil nails will be considered to facilitate the stability of the retaining walls. Due to the materials present at the base of the wall, it is our opinion that global stability of the wall is not a design consideration. The soil nail lengths should be evaluated by the designer based on internal stability of the wall. Figure 4 presents our estimation of the contact between fill and formational materials for the retaining walls. However, for the design of the soil nail walls, we recommend the use of the material properties presented in Table 7. A horizontal ground acceleration coefficient of 0.25g, or one-half of the MCE ground acceleration may be considered for design. For planning purposes, soil nails can be designed assuming an ultimate pullout unit capacity (bond stress) of 14 pounds per square inch (psi). This value will depend on drilling methods, and should be checked during construction.

Table 7 – Design Material Properties

Material Type	Total Unit Weight (pcf)	Cohesion (psf)	Angle of Internal Friction (degrees)	Ultimate Bond Stress (psi)
Formation	120	230	34	14
Notes: pcf = pounds per cubic feet psf = pounds per square feet psi = pounds per square inch				

Soil nails should be epoxy coated in accordance with ASTM A775. The epoxy coat should have a thickness of approximately 0.3-inch or more, and should be electrostatically applied. Due to the occurrence of potentially aggressive ground condition (i.e., low electrical resistivity), encapsulation should also be considered. Encapsulation should be achieved by grouting the steel bar inside a corrugated HDPE or PVC sleeve. A neat

cement grout containing admixtures to control water bleed from the grout should be used to fill the annular space between the bar and the sleeve. The cement grout for the nail should consist of either neat cement or a sand-cement mixture with a three-day compressive strength of 1,500 psi and a 28-day compressive strength of 4,000 psi per ASTM C109. The cement should conform to ASTM C150, Type II/V Portland cement. Fine aggregate for the grout mix should comply with ASTM C33. Water used for grout should be potable, clean and free from substances deleterious to concrete and steel. Grout should be proportioned using a metered grout mixer and pump. Testing of nail grout during construction should be performed at a frequency of approximately one test for every 50 cubic yards of grout placed or once a week, whichever occurs first.

7.5. Drainage

The walls should be provided with appropriate drainage in order to reduce build-up of hydrostatic pressure. Due to potential rehabilitation alternatives which may preserve the existing reinforced concrete lagging and beams, an opportunity for installation of a conventional pipe and gravel subdrain may not be available. Therefore, an alternative consisting of geocomposite drain mat installed between the beams may be considered. A collector subdrain should be considered at the bottom of the wall, and it should be connected to the drain mat, hydraugers, or alternative. Water collected by the subdrain system should be routed to a suitable discharge point. Weep holes near the wall base may provide a suitable alternative, but will contribute to algae growth and slip hazards on the sidewalk.

As noted, groundwater was not encountered during our subsurface evaluation. However seepage was encountered. Therefore, we recommend the installation of hydraugers (horizontal drains) to further reduce the potential for hydrostatic pressures on the wall. Hydraugers should consist of slotted well pipes constructed in drilled holes advanced on a slightly upward slope (about 4 percent) to promote gravity flow. The annulus between the drilled hole and the pipe should be tightly backfilled with sand. Hydraugers might be outfitted with cleanouts at the wall face to facilitate maintenance should they discharge hard water. The discharge point should be in contact with the drain mat or collector.

7.6. Corrosion

Laboratory testing was performed on representative samples of the on-site earth materials to evaluate pH and electrical resistivity, as well as chloride and sulfate contents. The pH and electrical resistivity tests were performed in accordance with California Test (CT) 643 and the sulfate and chloride content tests were performed in accordance with CT 417 and CT 422, respectively. These laboratory test results are presented in Appendix C.

The results of our corrosivity testing indicated electrical resistivities ranging between 1,000 and 6,600 ohm-cm, soil pH values ranging between 6.1 and 6.8, chloride contents ranging between 50 and 930 parts per million (ppm), and sulfate contents ranging between 0.012 and 0.189 percent (i.e., 120 to 1,890 ppm). Based on the Caltrans corrosion criteria (2012), the on-site soils would be classified as corrosive, which is defined as soils with more than 500 ppm chlorides, more than 0.2 percent sulfates, or a pH less than 5.5. We recommend that the corrosivity of site soils be further evaluated by a corrosion engineer, if needed.

7.7. Concrete

Concrete in contact with soil or water that contains high concentrations of soluble sulfates can be subject to chemical deterioration. Laboratory testing indicated a sulfate content of the sample tested of up to 0.189 percent. According to the American Concrete Institute (ACI) 318, the potential for sulfate attack is moderate for water-soluble sulfate content between 0.1 and 0.2 percent by weight (i.e., between 1,000 and 2,000 ppm) in soils. Therefore, the site soils may be considered to have a moderate potential for sulfate attack. We recommend that consideration be given to using Type II/V cement as well as maintaining a water-to-cement ratio of 0.45.

7.8. Pavement Sections

Improvements to Georgia Street bridge and lowering of University Avenue would involve replacement of pavements at the completion of work. Based on our laboratory testing, the onsite material was evaluated to have an R-value of 11 and 30. Our preliminary flexible pavement design is based on an R-value of 10 for University Avenue and 30 for Georgia Street. Actual pavement recommendations should be based on R-value tests performed on bulk samples of

the soils that are exposed at the finished subgrade elevations across the site at the completion of the mass grading operations. Based on the City of San Diego pavement design standards (2012) and our discussions with you, we have assumed Traffic Indices (TI) of 8.5 for Georgia Street and 10.5 for University Avenue for the design of site pavements. The preliminary recommended pavement sections are presented in Table 8. However, we recommend that we re-evaluate the pavement design, based on the R-value of the subgrade material exposed at the time of construction.

Table 8 – Recommended Preliminary Pavement Sections

Location	Traffic Index	R-Value	Asphalt Concrete (in)	Cement Treated Base (in)
Georgia Street	8.5	30	3.0	11.5
University Avenue	10.5	10	5.5	18.0

We recommend that the upper 12 inches of the subgrade and base materials be compacted to a relative compaction of 95 percent relative density as evaluated by the current version of ASTM D 1557. If traffic indices are different from those assumed, the pavement design should be re-evaluated.

8. LIMITATIONS

The field evaluation, laboratory testing, and geotechnical analyses presented in this report have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. No warranty, expressed or implied, is made regarding the conclusions, recommendations, and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be encountered during construction. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation will be performed upon request. Please also note that our evaluation was limited to assessment of the geotechnical aspects of the project, and did not include evaluation of structural issues, environmental concerns, or the presence of hazardous materials.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This report is intended for design purposes only. It does not provide sufficient data to prepare an accurate bid by contractors. It is suggested that the bidders and their geotechnical consultant perform an independent evaluation of the subsurface conditions in the project areas. The independent evaluations may include, but not be limited to, review of other geotechnical reports prepared for the adjacent areas, site reconnaissance, and additional exploration and laboratory testing.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. If geotechnical conditions different from those described in this report are encountered, our office should be notified, and additional recommendations, if warranted, will be provided upon request. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no controls.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

9. REFERENCES

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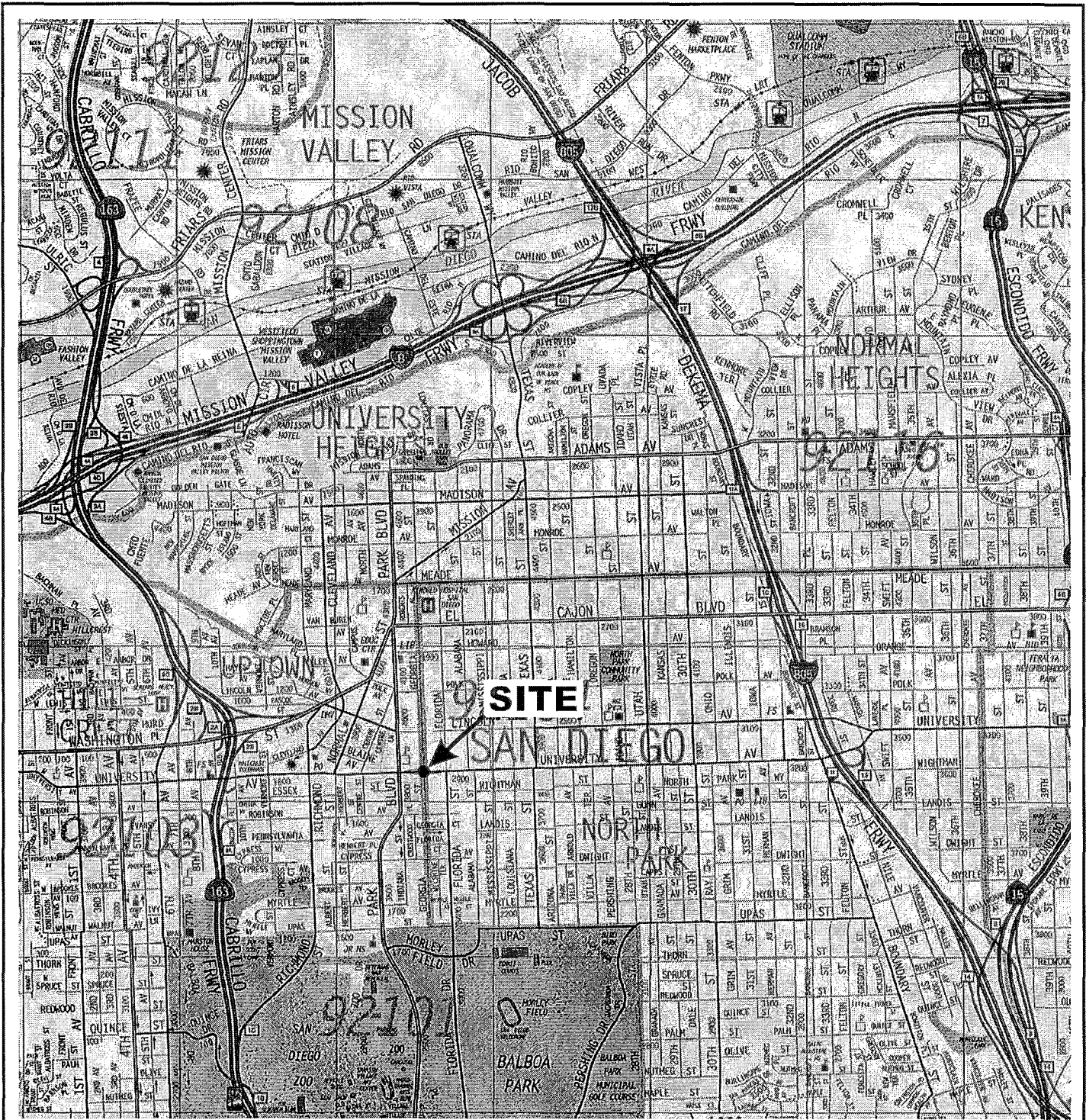
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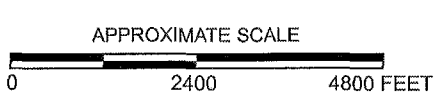
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AERIAL PHOTOGRAPHS				
Source	Date	Flight	Numbers	Scale
USDA	March 31, 1953	AXN-3M	193 and 194	1:20,000



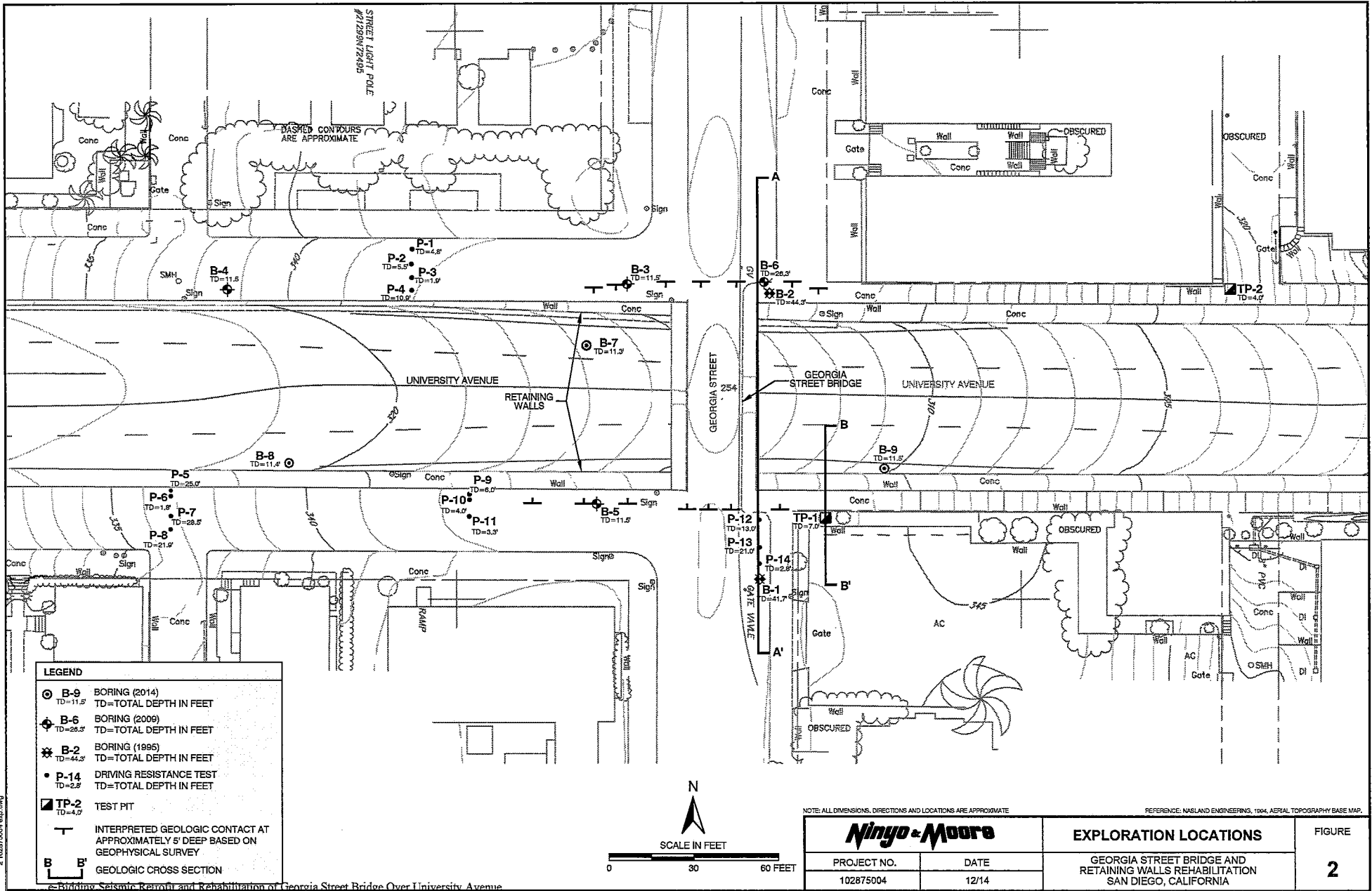
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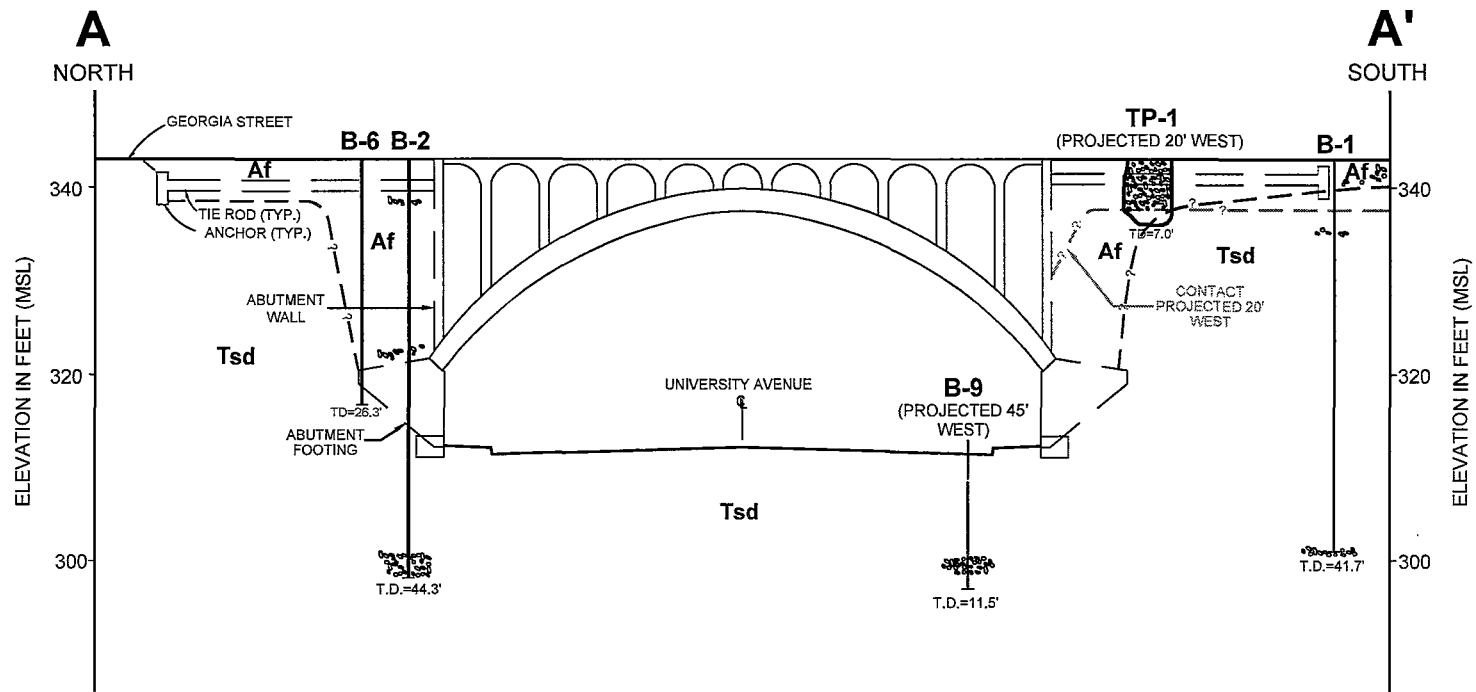
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.
Map © Rand McNally, R.L.07-S-129

		SITE LOCATION GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	FIGURE 1

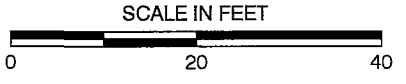
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Bidding Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue
 Appendix H - Foundation Report (Rev. July 2015) - Federal ID: BRLO 5004 (009)



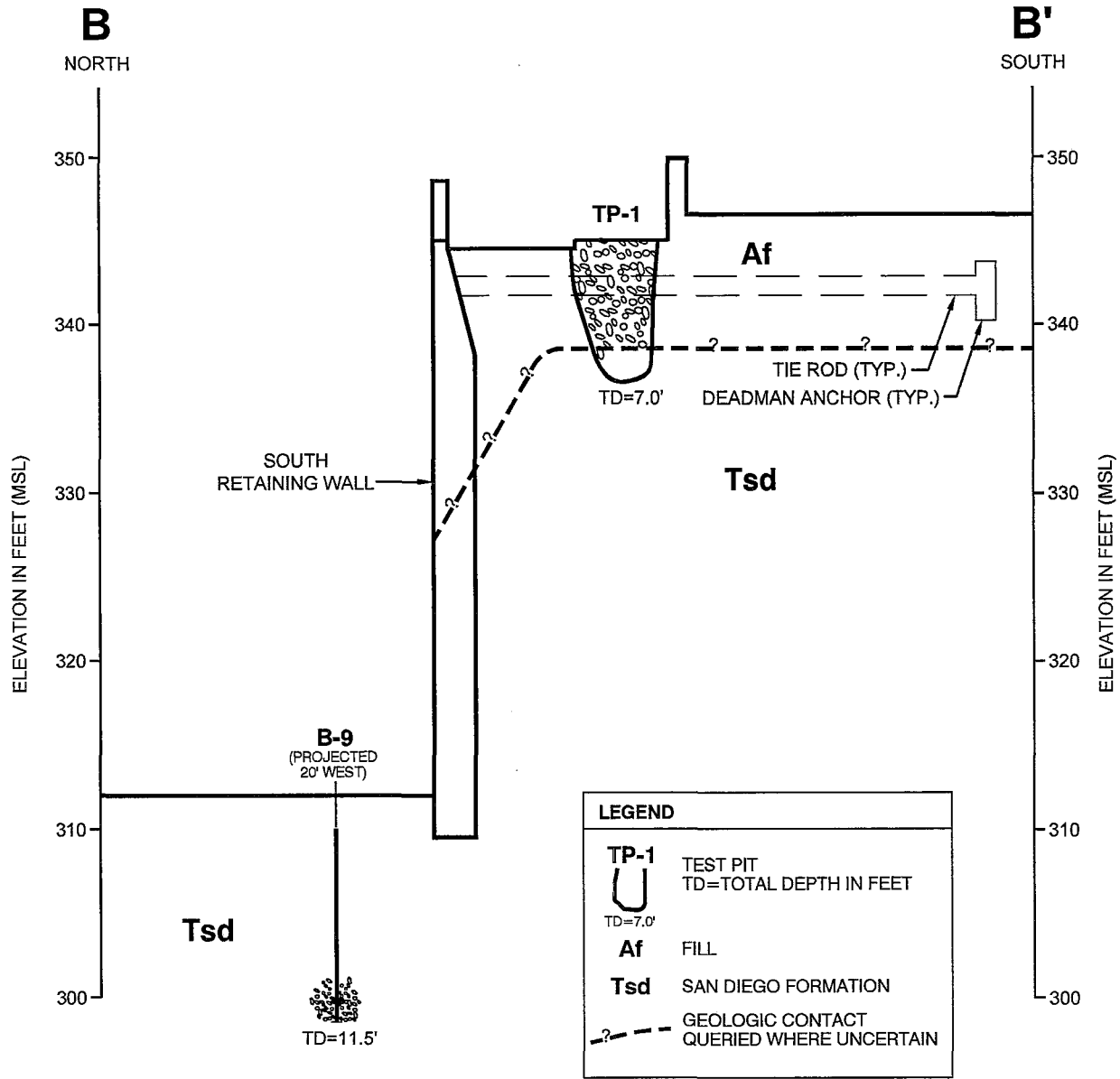
LEGEND	
B-6	BORING TD=TOTAL DEPTH IN FEET
TD=26.3'	
TP-1	TEST PIT TD=TOTAL DEPTH IN FEET
TD=7.0'	
Af	FILL
Tsd	SAN DIEGO FORMATION
-? -	GEOLOGIC CONTACT QUERIED WHERE UNCERTAIN
	GRAVEL/COBBLE LAYER



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE

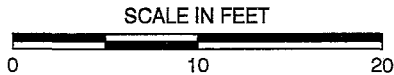
Ninyo & Moore		GEOLOGIC CROSS SECTION A-A'	FIGURE 3
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	
102875004	12/14		

3 102875004 cs a-a'.dwg



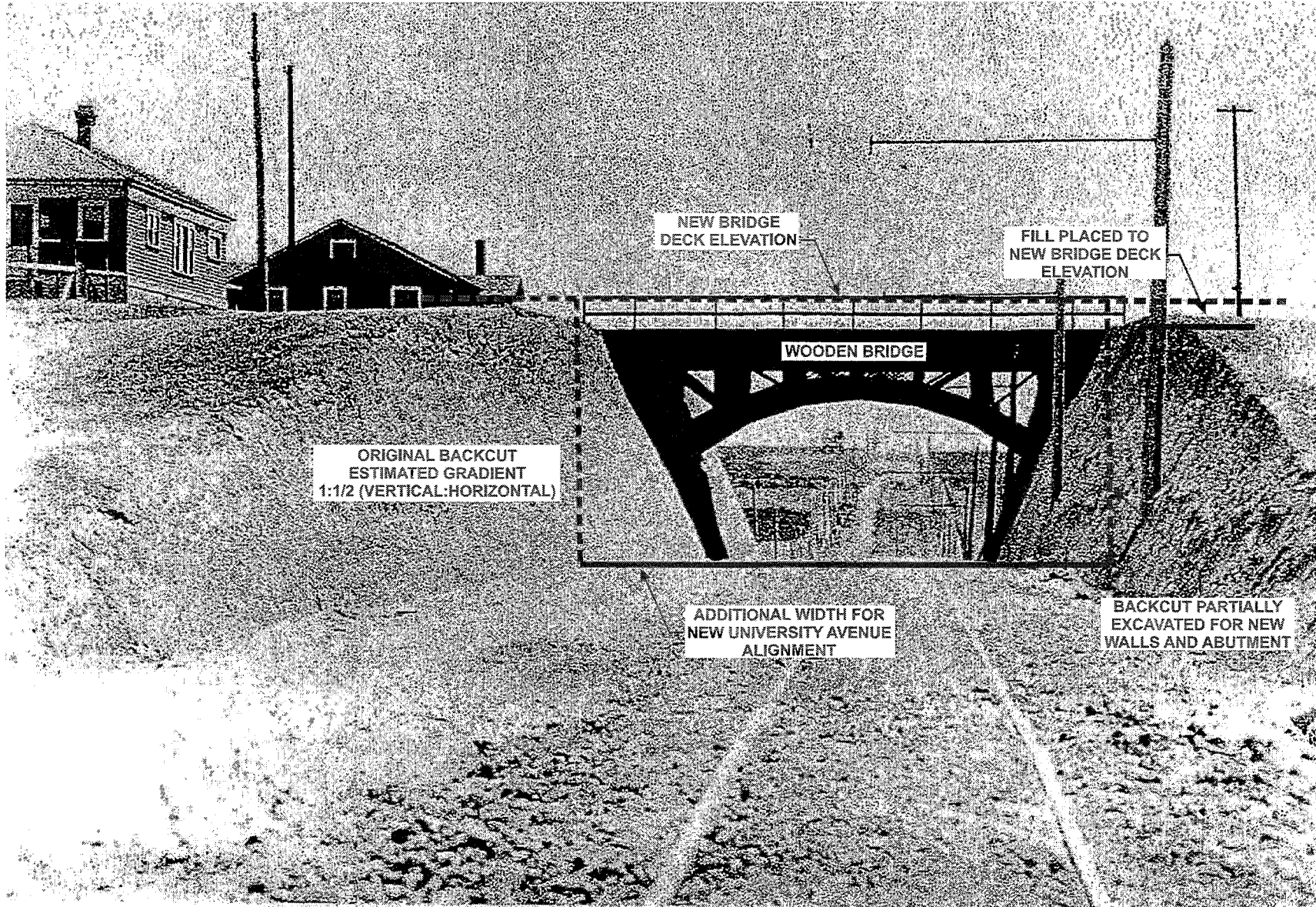
LEGEND	
TP-1 U TD=7.0'	TEST PIT TD=TOTAL DEPTH IN FEET
Af	FILL
Tsd	SAN DIEGO FORMATION
-?- -	GEOLOGIC CONTACT QUERIED WHERE UNCERTAIN

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE



Ninyo & Moore		GEOLOGIC CROSS SECTION B-B'	FIGURE 4
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	
102875004	12/14		

4-102875004 cs b-b'.dwg



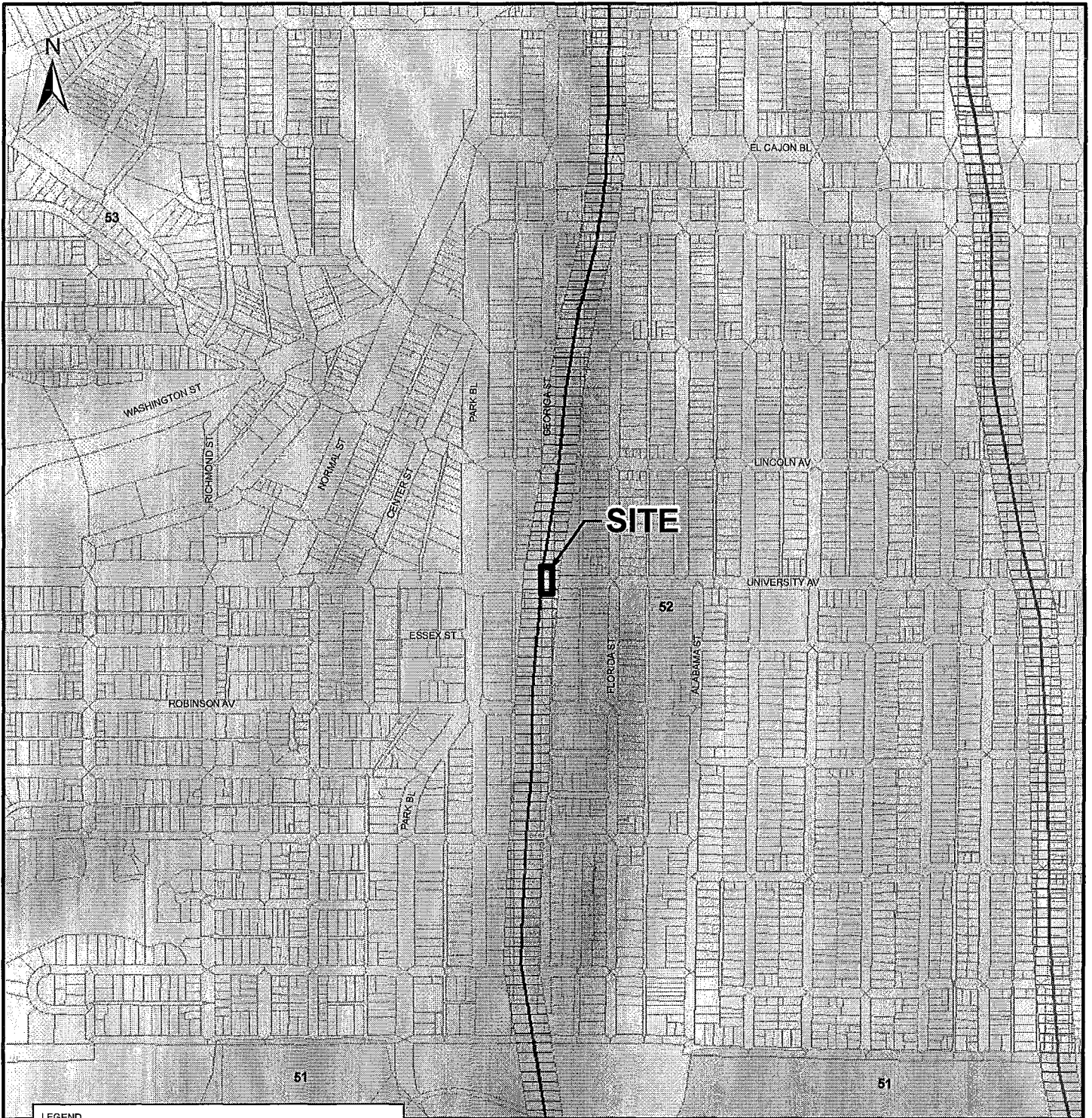
NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

PHOTOGRAPH SOURCE: U.S. DEPARTMENT OF THE INTERIOR, 1967.

5 102875004 hist photo.cdr AOB

NOT TO SCALE

Ninyo & Moore		HISTORIC PHOTOGRAPH	FIGURE 5
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	
102875004	12/14		



SOURCE: CITY OF SAN DIEGO SEISMIC SAFETY STUDY GEOLOGIC HAZARDS AND FAULTS, SANGIS, 2008

LEGEND

GEOLOGIC HAZARDS

— INFERRED FAULT

— 12 POTENTIALLY ACTIVE, INACTIVE, PRESUMED INACTIVE, OR ACTIVITY UNKNOWN

OTHER TERRAIN

51 51 LEVEL MESAS – UNDERLAIN BY TERRACE DEPOSITS AND BEDROCK NOMINAL RISK

52 52 OTHER LEVEL AREAS, GENTLY SLOPING TO STEEP TERRAIN, FAVORABLE GEOLOGIC STRUCTURE, LOW RISK

53 53 LEVEL OR SLOPING TERRAIN, UNFAVORABLE GEOLOGIC STRUCTURE, LOW TO MODERATE RISK

SCALE IN FEET

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

GEOLOGIC HAZARDS

FIGURE

PROJECT NO.	DATE
102875004	12/14

GEORGIA STREET BRIDGE AND
RETAINING WALLS REHABILITATION
SAN DIEGO, CALIFORNIA

6

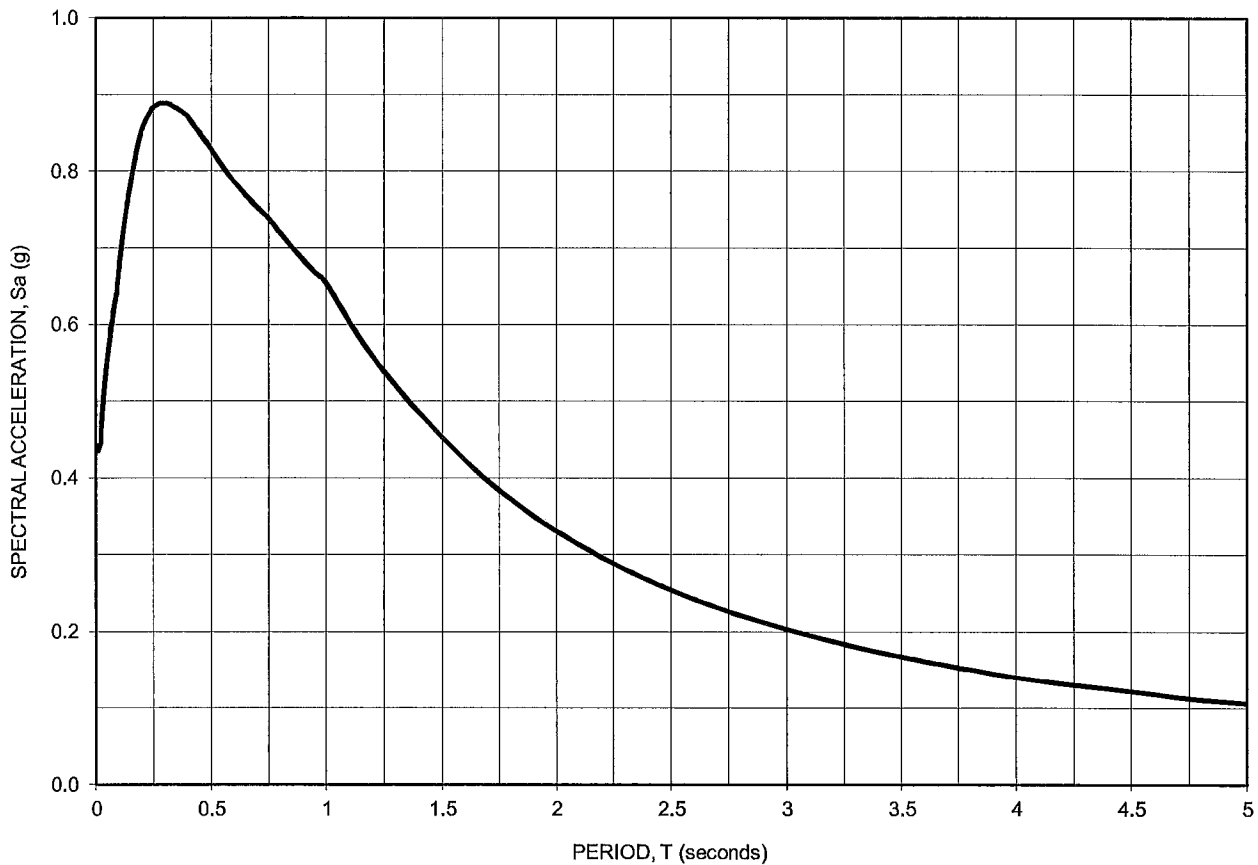
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Site Coordinates: Latitude 32.748482, Longitude -117.145028

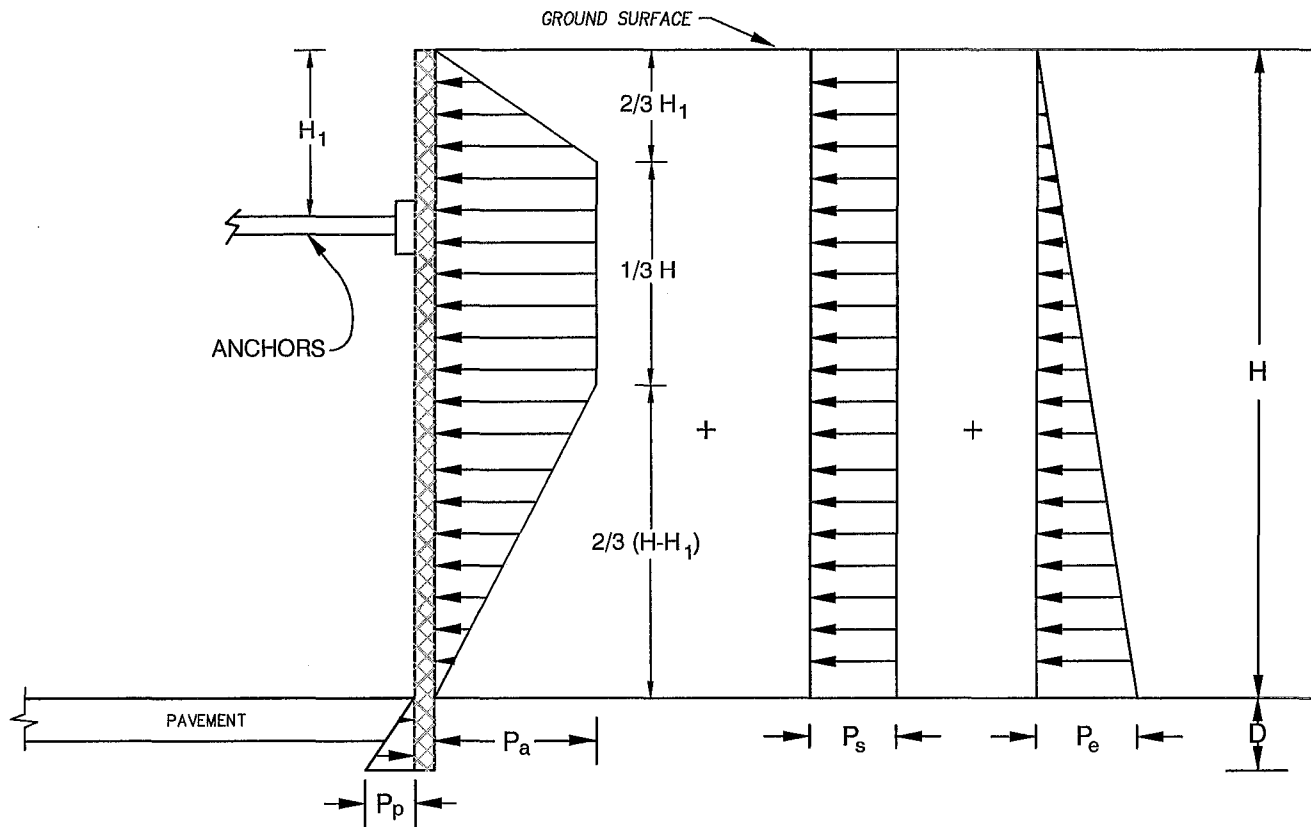
Site Class: D

Vs30: 300 m/s

Period (s)	Sa (g)	Period (s)	Sa (g)	Period (s)	Sa (g)	Period (s)	Sa (g)	Period (s)	Sa (g)
0.010	0.435	0.070	0.603	0.250	0.883	0.667	0.763	2.500	0.254
0.020	0.445	0.075	0.613	0.260	0.885	0.700	0.753	2.600	0.242
0.022	0.455	0.080	0.623	0.280	0.888	0.750	0.738	2.800	0.221
0.025	0.470	0.085	0.632	0.290	0.888	0.800	0.719	3.000	0.203
0.029	0.487	0.090	0.641	0.300	0.888	0.850	0.701	3.200	0.187
0.030	0.491	0.095	0.656	0.320	0.887	0.900	0.684	3.400	0.173
0.032	0.499	0.100	0.671	0.340	0.884	0.950	0.668	3.500	0.167
0.035	0.510	0.110	0.698	0.350	0.882	1.000	0.654	3.600	0.161
0.036	0.513	0.120	0.724	0.360	0.881	1.100	0.603	3.800	0.150
0.040	0.527	0.130	0.746	0.380	0.876	1.200	0.559	4.000	0.140
0.042	0.533	0.133	0.752	0.400	0.871	1.300	0.520	4.200	0.132
0.044	0.539	0.140	0.765	0.420	0.862	1.400	0.485	4.400	0.125
0.045	0.542	0.150	0.782	0.440	0.854	1.500	0.453	4.600	0.118
0.046	0.545	0.160	0.800	0.450	0.850	1.600	0.423	4.800	0.111
0.048	0.550	0.170	0.816	0.460	0.845	1.700	0.396	5.000	0.106
0.050	0.556	0.180	0.830	0.480	0.837	1.800	0.372		
0.055	0.569	0.190	0.843	0.500	0.828	1.900	0.350		
0.060	0.581	0.200	0.855	0.550	0.806	2.000	0.331		
0.065	0.592	0.220	0.869	0.600	0.786	2.200	0.296		
0.067	0.597	0.240	0.879	0.650	0.769	2.400	0.267		



Ningo & Moore		CALTRANS DESIGN ARS CURVE	FIGURE
PROJECT	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	7
102875004	12/14	e-Bidding Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue	



NOTES:

1. APPARENT LATERAL EARTH PRESSURE, P_a
 $P_a = 44 H$ psf
2. CONSTRUCTION TRAFFIC INDUCED SURCHARGE PRESSURE, P_s
 $P_s = 120$ psf
3. DYNAMIC LATERAL EARTH PRESSURE, P_e
 $P_e = 24 H$ psf
4. PASSIVE LATERAL EARTH PRESSURE, P_p
 $P_p = 450 D$ psf
5. ASSUMES GROUNDWATER IS NOT PRESENT
6. SURCHARGES FROM EXCAVATED SOIL OR CONSTRUCTION MATERIALS ARE NOT INCLUDED
7. H AND D ARE IN FEET

NOT TO SCALE

Ninyo & Moore

ABUTMENT WALL PRESSURE DIAGRAM - EXISTING CONDITION

FIGURE

PROJECT NO.

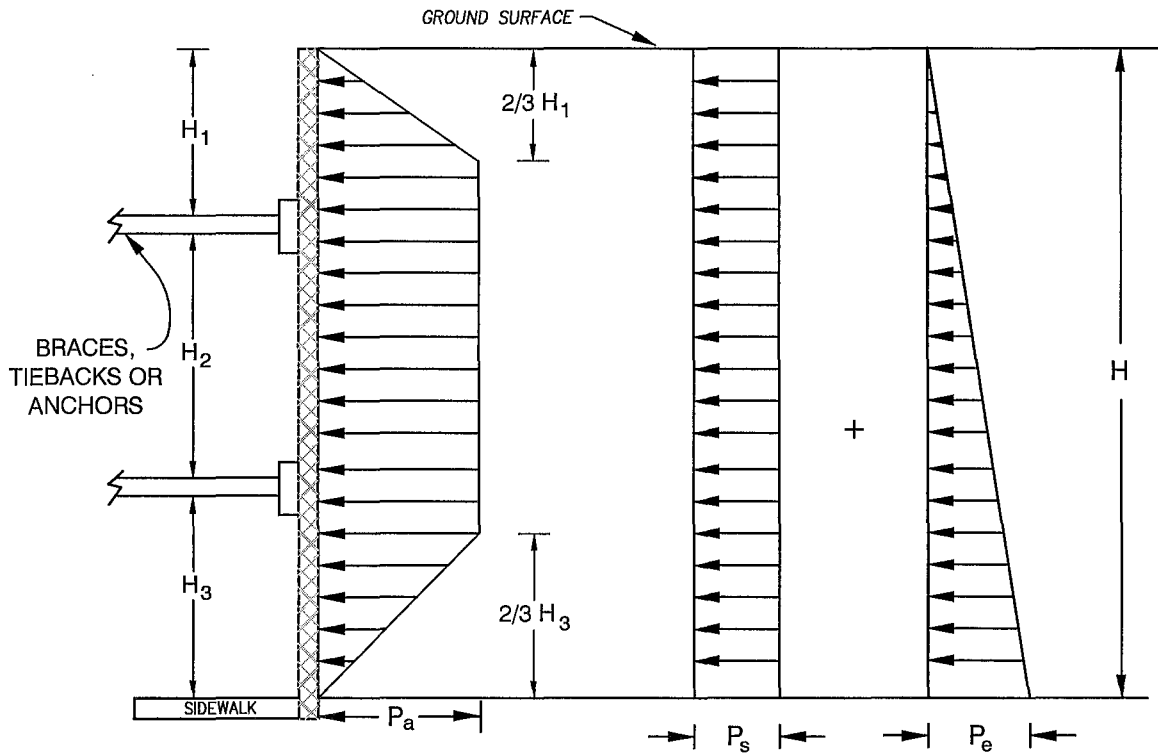
DATE

GEORGIA STREET BRIDGE AND
RETAINING WALLS REHABILITATION
SAN DIEGO, CALIFORNIA

102875004

12/14

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NOTES:

1. APPARENT LATERAL EARTH PRESSURE, P_a
 $P_a = 33 H$ psf
2. CONSTRUCTION TRAFFIC INDUCED SURCHARGE PRESSURE, P_s
 $P_s = 120$ psf
3. DYNAMIC LATERAL EARTH PRESSURE, P_e
 $P_e = 24 H$ psf
4. ASSUMES GROUNDWATER IS NOT PRESENT
5. SURCHARGES FROM EXCAVATED SOIL OR CONSTRUCTION MATERIALS ARE NOT INCLUDED
6. H AND D ARE IN FEET

NOT TO SCALE

9-102875004.d-twrml.dwg

Ninyo & Moore		ABUTMENT TIEBACK WALL PRESSURE DIAGRAM - MULTIPLE LEVELS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	9
102875004	12/14		

APPENDIX A

LOG OF TEST BORING (LOTB) SHEETS

Field Procedures for the Collection of Disturbed Samples

Disturbed soil samples were obtained in the field using the following methods.

Bulk Samples

Bulk samples of representative earth materials were obtained from the exploratory borings and test pits. The samples were bagged and transported to the laboratory for testing.

The Standard Penetration Test Sampler

Disturbed drive samples of earth materials were obtained by means of a Standard Penetration Test sampler. The sampler is composed of a split barrel with an external diameter of 2 inches and an unlined internal diameter of 1 $\frac{3}{8}$ inches. The sampler was driven into the ground 12 to 18 inches with a 140-pound hammer freely falling from a height of 30 inches in general accordance with ASTM D 1586. The blow counts were recorded for every 6 inches of penetration; the blow counts reported on the logs are those for the last 12 inches of penetration. Soil samples were observed and removed from the sampler, bagged, sealed and transported to the laboratory for testing.

Field Procedures for the Collection of Relatively Undisturbed Samples

Relatively undisturbed soil samples were obtained in the field using the Modified Split-Barrel Drive Sampler. The sampler, with an external diameter of 3.0 inches, was lined with 1-inch long, thin brass rings with inside diameters of approximately 2.4 inches. The sample barrel was driven into the ground with the weight of a 140-pound hammer, in general accordance with ASTM D 3550. The driving weight was permitted to fall freely. The approximate length of the fall, the weight of the hammer, and the number of blows per foot of driving are presented on the boring logs as an index to the relative resistance of the materials sampled. The samples were removed from the sample barrel in the brass rings, sealed, and transported to the laboratory for testing.

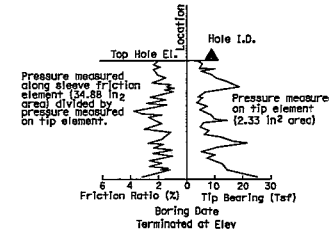
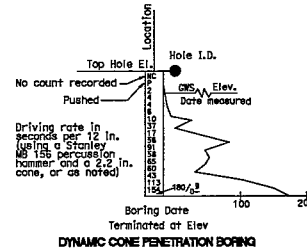
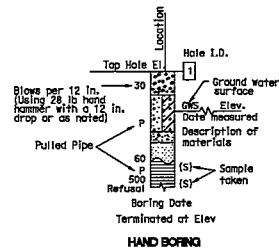
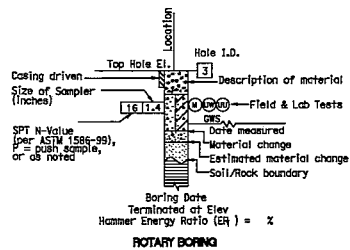
REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

BOREHOLE IDENTIFICATION		
Symbol	Note Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5776)
	O	Other (note on LOTS)

Notes: Size In Inches.

CONSISTENCY OF COHESIVE SOILS				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Tarvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



100% SUBMITTAL
NOT FOR CONSTRUCTION S-25

PLANS FOR THE CONSTRUCTION OF GEORGIA STREET BRIDGE RETROFIT AND REHABILITATION LOG OF TEST BORINGS NO. 1 (LEGEND)

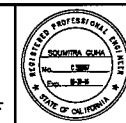
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 32 OF 58 SHEETS

WBS S-00863

FOR CITY ENGINEER	DATE	A. SLEMAN
BY	DATE	ASSOCIATE ENGINEER
PROJECT ENGINEER		M. CUNNINGHAM
DESCRIPTION	BY	APPROVED
ORIGINAL	DATE	FILED
CONTRACTOR	DATE STARTED	38123-S2-D
INSPECTOR	DATE COMPLETED	

Ninyo & Moore
6714 RUTTEN ROAD, SAN DIEGO, CA 92123
(619) 572-1000 www.ninyoandmoore.com

Joanita Gula DATE: 12/05/14
PREPARED BY: SOANITA GULA REGISTRATION EXPRESS: 06/30/15 R.C.E. NO. C 88967



REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY
	Well-graded GRAVEL with SAND		Lean CLAY with SAND
	Poorly-graded GRAVEL		SANDY lean CLAY
	Poorly-graded GRAVEL with SAND		GRAVELLY lean CLAY
	Well-graded GRAVEL with SILT		SANDY SILTY CLAY with GRAVEL
	Well-graded GRAVEL with SILT and SAND		SANDY SILTY CLAY with GRAVEL
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		GRAVELLY SILTY CLAY with GRAVEL
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY with SAND
	Poorly-graded GRAVEL with SILT		SILT with SAND
	Poorly-graded GRAVEL with SILT and SAND		SILT with GRAVEL
	Poorly-graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILT
	Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		SANDY SILT with GRAVEL
	SILTY GRAVEL		GRAVELLY SILT
	SILTY GRAVEL with SAND		GRAVELLY SILT with SAND
	CLAYEY GRAVEL		ORGANIC lean CLAY
	CLAYEY GRAVEL with SAND		ORGANIC lean CLAY with SAND
	SILTY, CLAYEY GRAVEL		ORGANIC lean CLAY with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND		SANDY ORGANIC lean CLAY
	Well-graded SAND		SANDY ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with GRAVEL		GRAVELLY ORGANIC lean CLAY
	Poorly-graded SAND		GRAVELLY ORGANIC lean CLAY with SAND
	Poorly-graded SAND with GRAVEL		ORGANIC SILT
	Well-graded SAND with SILT		ORGANIC SILT with SAND
	Well-graded SAND with SILT and GRAVEL		Elastic SILT with GRAVEL
	Well-graded SAND with CLAY (or SILTY CLAY)		SANDY elastic SILT
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		SANDY elastic SILT with GRAVEL
	Poorly-graded SAND with SILT		GRAVELLY elastic SILT
	Poorly-graded SAND with SILT and GRAVEL		GRAVELLY elastic SILT with SAND
	Poorly-graded SAND with CLAY (or SILTY CLAY)		ORGANIC fat CLAY
	Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		ORGANIC fat CLAY with SAND
	SILTY SAND		ORGANIC fat CLAY with GRAVEL
	SILTY SAND with GRAVEL		SANDY ORGANIC fat CLAY
	CLAYEY SAND		SANDY ORGANIC fat CLAY with GRAVEL
	CLAYEY SAND with GRAVEL		GRAVELLY ORGANIC fat CLAY
	SILTY, CLAYEY SAND		GRAVELLY ORGANIC fat CLAY with SAND
	SILTY, CLAYEY SAND with GRAVEL		ORGANIC elastic SILT
	PEAT		ORGANIC elastic SILT with SAND
	COBBLES and BOULDERS		ORGANIC elastic SILT with GRAVEL
			SANDY ORGANIC elastic SILT
			SANDY ORGANIC elastic SILT with GRAVEL
			GRAVELLY ORGANIC elastic SILT
			GRAVELLY ORGANIC elastic SILT with SAND

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4787)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(UC)	Uncompacted Compression-Soil (ASTM D 2166)
(UC)	Uncompacted Compression-Rock (ASTM D 2938)
(UJ)	Unconsolidated Undrained Triaxial (ASTM D 2850)
(UW)	Unit Weight (ASTM D 4767)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N ₆₀ (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE	
Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE		
Description	Size (in.)	
Boulder	Greater than 12	
Cobble	3 - 12	
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay	Less than 1/300	

100% SUBMITTAL
NOT FOR CONSTRUCTION S-26

PLANS FOR THE CONSTRUCTION OF
GEORGIA STREET BRIDGE
RETROFIT AND REHABILITATION
LOG OF TEST BORINGS NO. 2 (LEGEND)

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 33 OF 58 SHEETS

REV. S-00863

FOR CITY ENGINEER
S. JOHNSON

DATE

APPROVED BY
M. GUNNINGHAM
PROJECT ENGINEER

DESCRIPTION

BY

APPROVED DATE

FILED

ORIGINAL

NO. & DATE

VARIES

VARIES

VARIES

CONTRACTOR

DATE STARTED

INSPECTOR

DATE COMPLETED

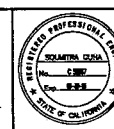
38123-33-D

Ninyo & Moore

5710 PUFFER ROAD, SAN DIEGO, CA 92123
(619) 575-1000 www.ninyoandmoore.com

Prepared by: *Soumitra Ghia* DATE: 12/09/14 R.C.E. NO. C 50607

REGISTRATION EXPIRES: 06/30/16



REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

PERCENT CORE RECOVERY (REC) + ROCK QUALITY DESIGNATION (RQD)

$$REC = \frac{\sum \text{Length of the recovered core pieces (in.)}}{\text{Total length of core run (in.)}} \times 100\%$$

$$RQD = \frac{\sum \text{Length of intact core pieces } \geq 4 \text{ in.}}{\text{Total length of core run (in.)}} \times 100\%$$

RQD* Indicates soundness criteria not met.

BEDDING SPACING	
Description	Thickness / Spacing
Massive	Greater than 10 ft
Very Thickly Bedded	3 ft - 10 ft
Thickly Bedded	1 ft - 3 ft
Moderately Bedded	4 in. - 1 ft
Thinly Bedded	1 in. - 4 in.
Very Thinly Bedded	1/4 in. - 1 in.
Laminated	Less than 1/4 in.

LEGEND OF ROCK MATERIALS

- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

ROCK HARDNESS	
Description	Criteria
Extremely Hard	Cannot be scratched with a pocketknife or sharp pick. Can only be chipped with repeated heavy hammer blows.
Very Hard	Cannot be scratched with a pocketknife or sharp pick. Breaks with repeated heavy hammer blows.
Hard	Can be scratched with a pocketknife or sharp pick with difficulty (heavy pressure). Breaks with heavy hammer blows.
Moderately Hard	Can be scratched with pocketknife or sharp pick with light or moderate pressure. Breaks with moderate hammer blows.
Moderately Soft	Can be grooved 1/16 in. deep with a pocketknife or sharp pick with moderate or heavy pressure. Breaks with light hammer blow or heavy manual pressure.
Soft	Can be grooved or gouged easily by a pocketknife or sharp pick with light pressure. Can be scratched with fingernail. Breaks with light to moderate manual pressure.
Very Soft	Can be readily indented, grooved or gouged with fingernail, or carved with a pocketknife. Breaks with light manual pressure.

FRACTURE DENSITY	
Description	Observed Fracture Density
Unfractured	No fractures.
Very Slightly Fractured	Core lengths greater than 3 ft.
Slightly Fractured	Core lengths mostly from 1 to 3 ft.
Moderately Fractured	Core lengths mostly from 4 in. to 1 ft.
Intensely Fractured	Core lengths mostly from 1 to 4 in.
Very Intensely Fractured	Mostly chips and fragments.

WEATHERING DESCRIPTORS FOR INTACT ROCK						
Description	Diagnostic Features					General Characteristics
	Chemical Weathering—Discoloration and/or Oxidation		Mechanical Weathering—Grain Boundary Conditions (Disaggregation) Primarily for Crystalline and Some Coarse-Grained Sediments	Texture and Leaching		
	Body of Rock	Fracture Surfaces		Texture	Leaching	
Fresh	No discoloration, not oxidized.	No discoloration or oxidation.	No separation, intact (tight).	No change	No leaching	Hammer rings when crystalline rocks are struck.
Slightly Weathered	Discoloration or oxidation is limited to surface of or short distance from fractures. Some jagged crystals are dull.	Minor to complete discoloration or oxidation of most surfaces.	No visible separation, intact (tight).	Preserved	Minor leaching of some soluble minerals.	Hammer rings when crystalline rocks are struck. Body of rock not weakened.
Moderately Weathered	Discoloration or oxidation extends from fractures. Jagged crystals are rusty. Well-developed crystals are "cloudy."	All fracture surfaces are discolored or oxidized.	Partial separation of boundaries visible.	Generally preserved	Soluble minerals may be mostly leached.	Hammer does not ring when rock is struck. Body of rock is slightly weakened.
Intensely Weathered	Discoloration or oxidation throughout; all minerals and Fe-Mg minerals are altered to clay to some extent; or chemical alteration produces in-situ cementation, and grain boundary conditions.	All fracture surfaces are discolored or oxidized; surfaces friable.	Partial separation, rock is friable; in some conditions granules are disaggregated.	Texture altered by chemical disintegration (disaggregation).	Leaching of soluble minerals may be complete.	Dull sound when struck with hammer; usually can be broken with moderate to heavy manual pressure or by light hammer blow without evidence of planes of weakness such as bedding or laminar fracturing, or shearing. Rock is significantly weakened.
Decomposed	Discolored or oxidized throughout, but resistant minerals such as quartz may be unaltered; all minerals and Fe-Mg minerals are completely altered to clay.		Complete separation of grain boundaries (disaggregated).	Resembles a soil, partial or complete remnant rock masses may be preserved; leaching of soluble minerals usually complete.		Can be granulated by hand. Resistant minerals such as quartz may be present as "stringers" or "dikes."

**100% SUBMITTAL
NOT FOR CONSTRUCTION** S-27

PLANS FOR THE CONSTRUCTION OF GEORGIA STREET BRIDGE RETROFIT AND REHABILITATION LOG OF TEST BORINGS NO. 3 (LEGEND)

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 34 OF 58 SHEETS

ISS S-00863

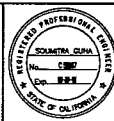
FOR CITY ENGINEER	DATE	A. SLEIMAN
FOR CITY ENGINEER	DATE	ASSOCIATE ENGINEER
PROJECT ENGINEER		M. CUNNINGHAM
PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED
ORIGINAL	DATE	FILED
CONTRACTOR	DATE STARTED	38123-34-D
INSPECTOR	DATE COMPLETED	

Ninyo & Moore

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(619) 576-1000 www.ninyoandmoore.com

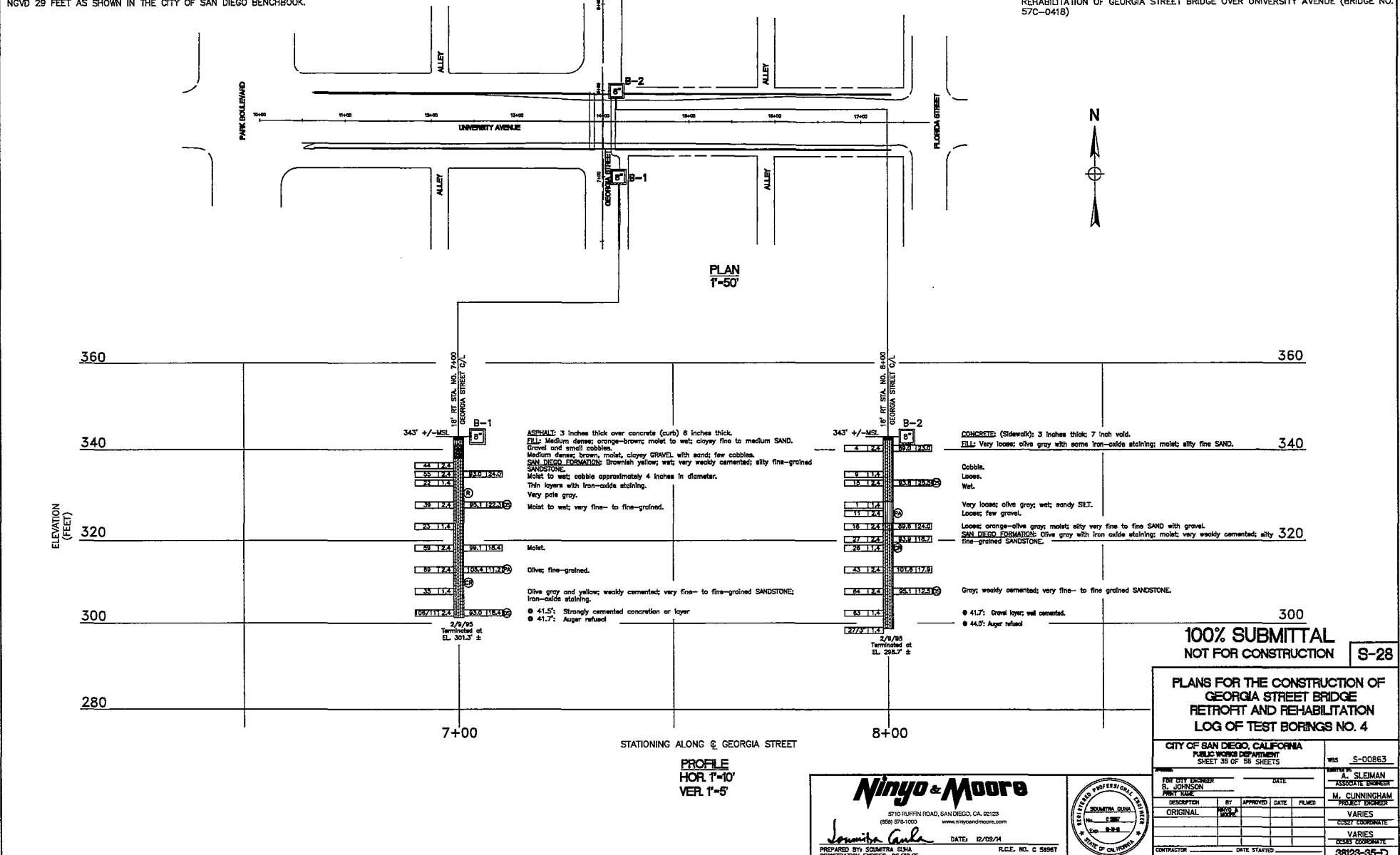
Leannita Gula DATE: 12/09/14 R.C.E. NO. C 58967

REGISTRATION EXPIRES 06/30/15



BENCH MARK
 SEBP UNIVERSITY AVENUE AND FLORIDA STREET, ELEVATION 289.069 MSL, BASED ON
 NVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCHMARK.

REFERENCES
 KLEINFELDER/SIMON WONG, 2014, IMPROVEMENT PLANS FOR SEISMIC RETROFIT AND
 REHABILITATION OF GEORGIA STREET BRIDGE OVER UNIVERSITY AVENUE (BRIDGE NO.
 57C-0418)



100% SUBMITTAL
 NOT FOR CONSTRUCTION
 S-28

**PLANS FOR THE CONSTRUCTION OF
 GEORGIA STREET BRIDGE
 RETROFIT AND REHABILITATION
 LOG OF TEST BORINGS NO. 4**

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 SHEET 35 OF 56 SHEETS

DATE: 2/7/05
 TERMINATED AT: EL. 293.7 ±

DATE: 2/7/05
 TERMINATED AT: EL. 293.7 ±

FOR CITY ENGINEER	DATE	DATE
S. JOHNSON		
PROJECT NAME		
DESCRIPTION	BY	APPROVED
ORIGINAL	PROJECT	DATE
		FILED
CONTRACTOR	DATE STARTED	
INSPECTOR	DATE COMPLETED	

ISSUED BY: A. SLEIMAN
 ASSOCIATE ENGINEER

PROJECT ENGINEER: M. CUNNINGHAM

CLASSIFIED BY: VARIES
 CHECKED BY: VARIES
 DRAWN BY: VARIES

38123-35-D

Ninyo & Moore
 5710 RUPPIN ROAD, SAN DIEGO, CA 92123
 (619) 515-1000
 www.ninyoandmoore.com

Prepared by: *Soledad C. G. M.* DATE: 12/09/14
 REGISTRATION EXPIRES: 06/30/15
 R.C.E. NO. C 59867

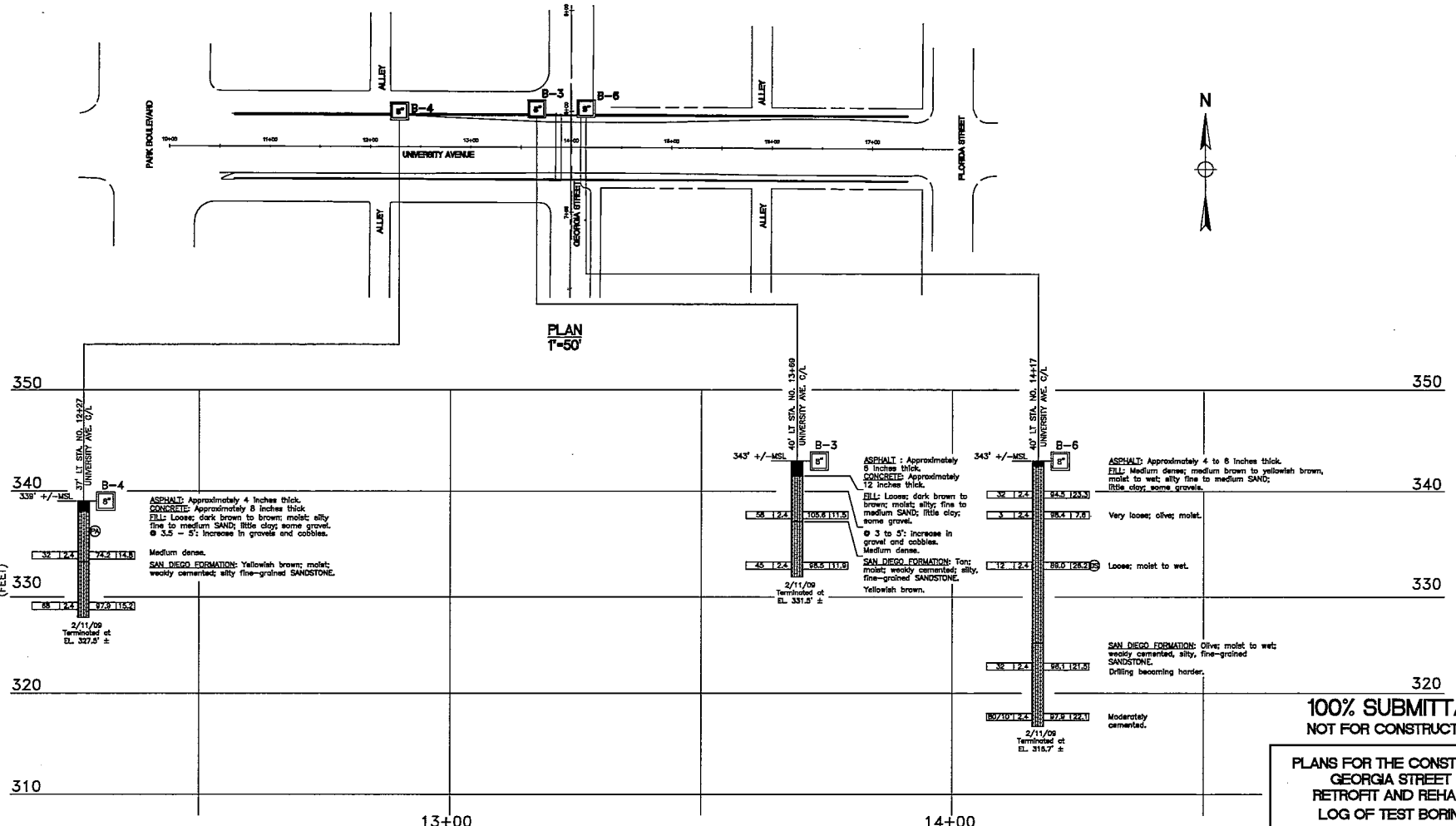
REGISTERED PROFESSIONAL ENGINEER
 SOLEDAD C. G. M.
 No. C-59867
 Exp. 06/30/15
 STATE OF CALIFORNIA

BENCH MARK

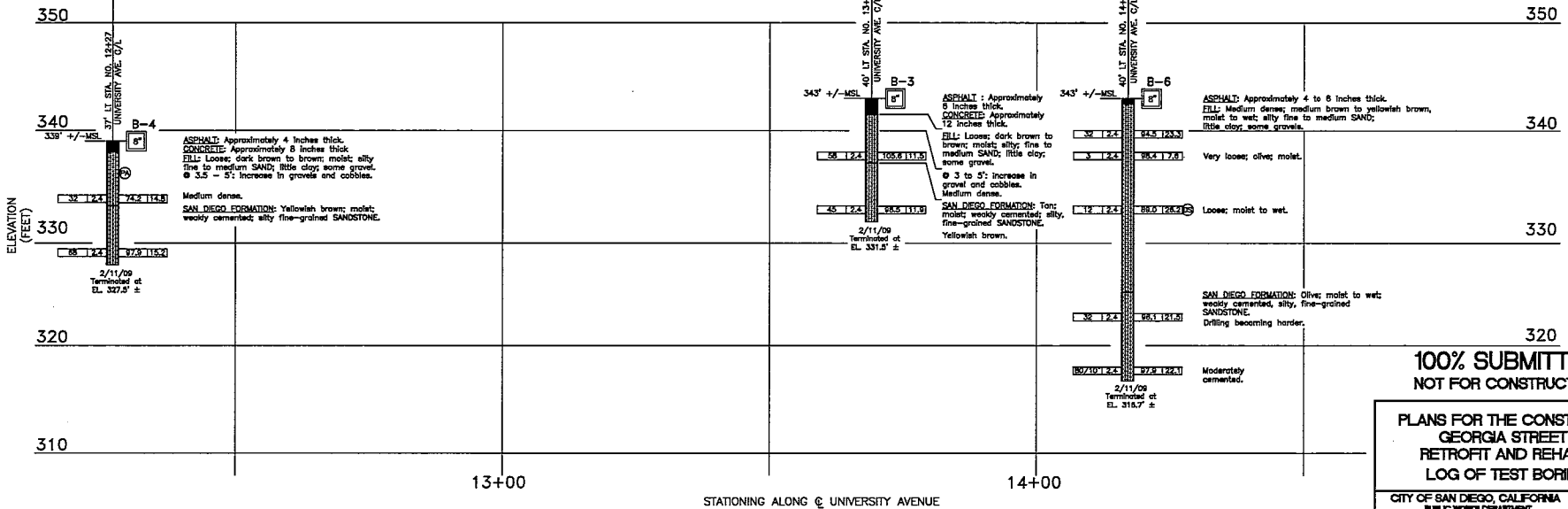
SEBP UNIVERSITY AVENUE AND FLORIDA STREET, ELEVATION 289.069 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCHBOOK.

REFERENCES

KLEINFELDER/SIMON WONG, 2014, IMPROVEMENT PLANS FOR SEISMIC RETROFIT AND REHABILITATION OF GEORGIA STREET BRIDGE OVER UNIVERSITY AVENUE (BRIDGE NO. 57C-0418)



**PLAN
T=50'**



STATIONING ALONG UNIVERSITY AVENUE

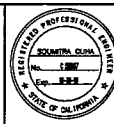
**PROFILE
HOR. T=10'
VER. T=5'**

**100% SUBMITTAL
NOT FOR CONSTRUCTION S-29**

**PLANS FOR THE CONSTRUCTION OF
GEORGIA STREET BRIDGE
RETROFIT AND REHABILITATION
LOG OF TEST BORINGS NO. 5**

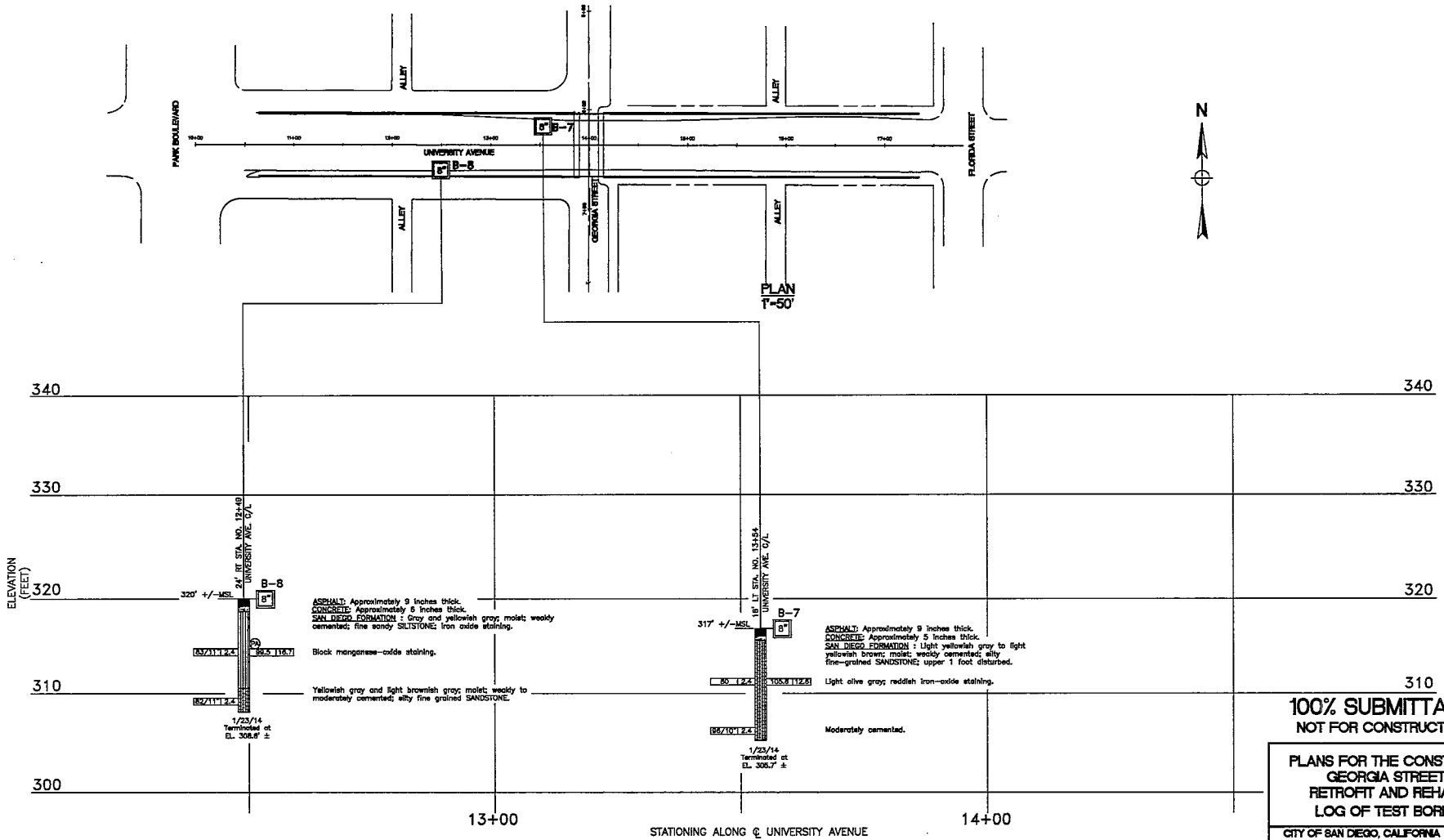
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 36 OF 58 SHEETS		MS S-00863
DATE	DATE	BY
FOR CITY ENGINEER B. JOHNSON		A. SLEIMAN ASSOCIATE ENGINEER
PROJECT NAME		M. CUNNINGHAM PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
DATE	DATE	FILED
ORIGINAL	PROJECT	
		VARIES
		COORDINATE
		VARIES
		COORDINATE
CONTRACTOR	DATE STARTED	
INSPECTOR	DATE COMPLETED	38123-06-D

Ninyo & Moore
5710 RUFFIN ROAD, SAN DIEGO, CA 92129
(619) 576-1000 www.ninyoandmoore.com
Prepared by: *Josephine Gault* DATE: 12/09/14 R.C.E. NO. C 58967
REGISTRATION EXPIRES: 06/30/15



BENCH MARK
 SEBP UNIVERSITY AVENUE AND FLORIDA STREET, ELEVATION 289.069 MSL, BASED ON
 NQVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCHBOOK.

REFERENCES
 KLEINFELDER/SIMON WONG, 2014, IMPROVEMENT PLANS FOR SEISMIC RETROFIT AND
 REHABILITATION OF GEORGIA STREET BRIDGE OVER UNIVERSITY AVENUE (BRIDGE NO.
 57C-0418)

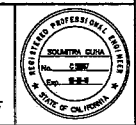


100% SUBMITTAL
NOT FOR CONSTRUCTION S-30

**PLANS FOR THE CONSTRUCTION OF
 GEORGIA STREET BRIDGE
 RETROFIT AND REHABILITATION
 LOG OF TEST BORINGS NO. 6**

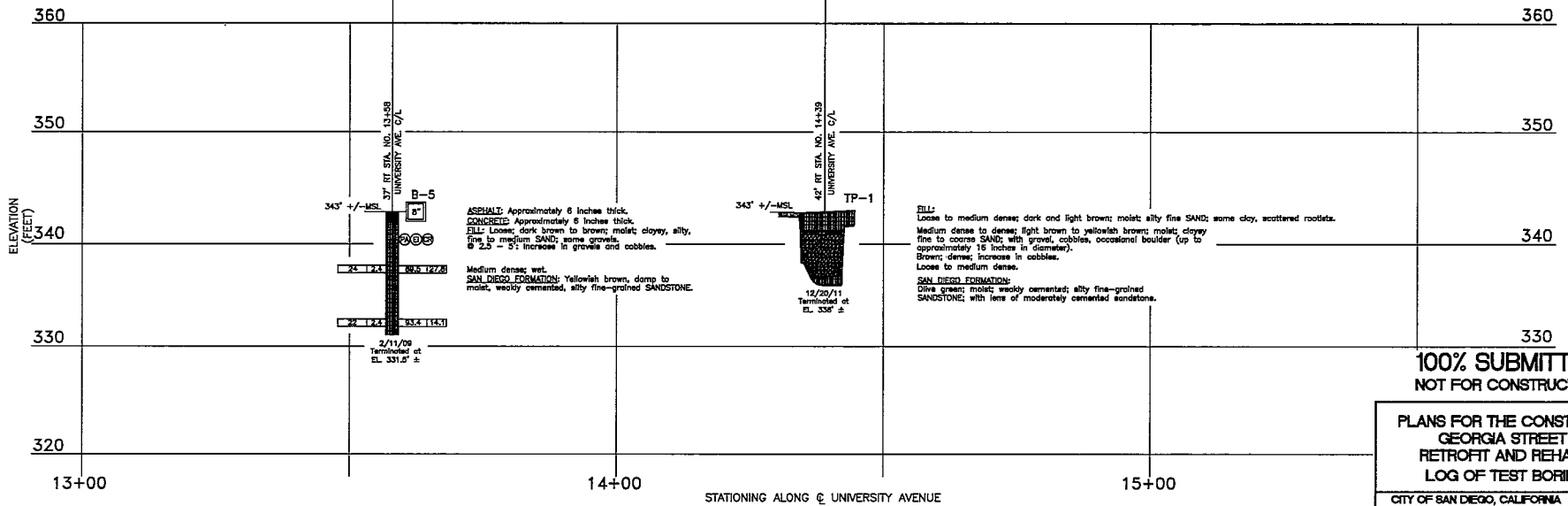
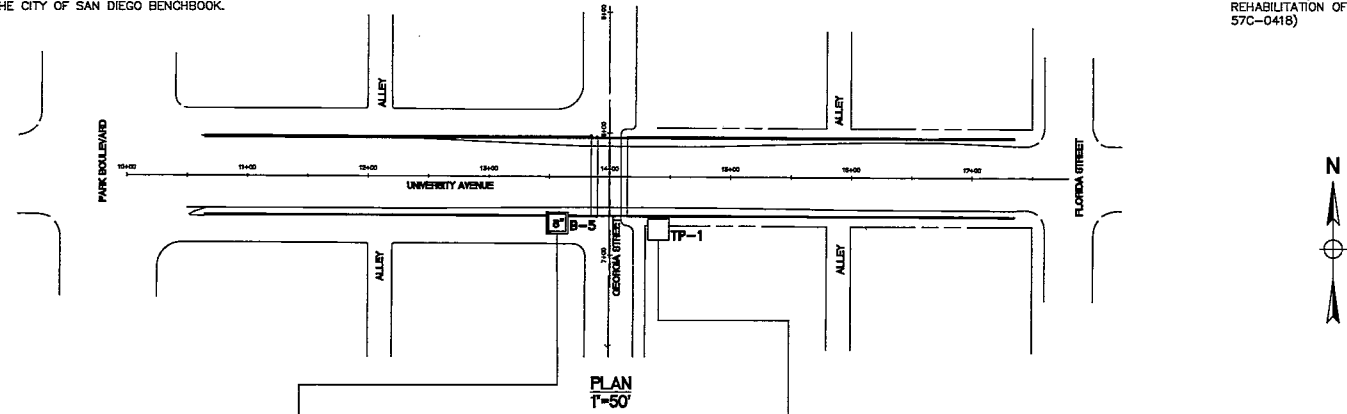
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 37 OF 58 SHEETS		WSS S-00863
FOR CITY ENGINEER R. JOHNSON FIRST TITLE	DATE	COMPILED BY A. SLEIMAN ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED DATE FILED
ORIGINAL	NEW	DATE
		DESIGN COORDINATE
		VARIES
		DESIGN COORDINATE
		VARIES
		DESIGN COORDINATE
CONTRACTOR	DATE STARTED	38123-37-D
INSPECTOR	DATE COMPLETED	

Ninyo & Moore
 5710 RUFFIN ROAD, SAN DIEGO, CA 92121
 (619) 576-1000 www.ninyoandmoore.com
Joseph A. Gula DATE 12/09/14 R.C.E. NO. C 58967
 PREPARED BY SCAMTHA 034A REGISTRATION EXPIRES 06/30/25



BENCH MARK
 SBP UNIVERSITY AVENUE AND FLORIDA STREET, ELEVATION 289.069 MSL, BASED ON
 NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCHBOOK.

REFERENCES
 KLEINFELDER/SIMON WONG, 2014, IMPROVEMENT PLANS FOR SEISMIC RETROFIT AND
 REHABILITATION OF GEORGIA STREET BRIDGE OVER UNIVERSITY AVENUE (BRIDGE NO.
 57C-0418)



343' +/-MSL
 37' RT STA. NO. 13+25.9
 UNIVERSITY AVE. C/L
 TP-5
 25' 12.4' 89.5 (12.2)
 22' 12.4' 83.4 (14.3)
 2/11/09
 Terminated at
 EL. 331.5' ±

ASPHALT: Approximately 6 inches thick.
 CONCRETE: Approximately 6 inches thick.
 FILL: Loose; dark brown to brown; moist; clayey, silty,
 fine to medium SAND; some gravel.
 @ 2.5 - 5': Increase in gravel and cobbles.
 Medium dense; wet.
 SAN DIEGO FORMATION: Yellowish brown, damp to
 moist, weedy cemented, silty fine-grained SANDSTONE.

343' +/-MSL
 42' RT STA. NO. 14+25.9
 UNIVERSITY AVE. C/L
 TP-1
 12/20/11
 Terminated at
 EL. 336' ±

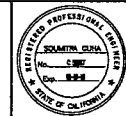
FILL:
 Loose to medium dense; dark and light brown; moist; silty fine SAND; some clay, scattered rootlets.
 Medium dense to dense; light brown to yellowish brown; moist; clayey
 fine to coarse SAND; with gravel, cobbles, occasional boulder (up to
 approximately 16 inches in diameter).
 Brown; dense; increase in cobbles.
 Loose to medium dense.
 SAN DIEGO FORMATION:
 Olive green; moist; weedy cemented; silty fine-grained
 SANDSTONE; with lens of moderately cemented sandstone.

100% SUBMITTAL
 NOT FOR CONSTRUCTION S-31

**PLANS FOR THE CONSTRUCTION OF
 GEORGIA STREET BRIDGE
 RETROFIT AND REHABILITATION
 LOG OF TEST BORINGS NO. 7**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 38 OF 58 SHEETS		WBS S-00863
FOR CITY ENGINEER E. JOHNSON	DATE	DATE
PROJECT NAME	BY	APPROVED
DESCRIPTION	DATE	DATE
ORIGINAL	NO. & DATE	FILED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

Ninyo & Moore
 5710 LAUREN ROAD, SAN DIEGO, CA 92123
 (619) 576-1000 www.ninyoandmoore.com
 PREPARED BY: *Soumitra Datta* DATE: 12/09/14
 REGISTRATION (DP003): 06/20/05 R.C.E. NO. C 58967

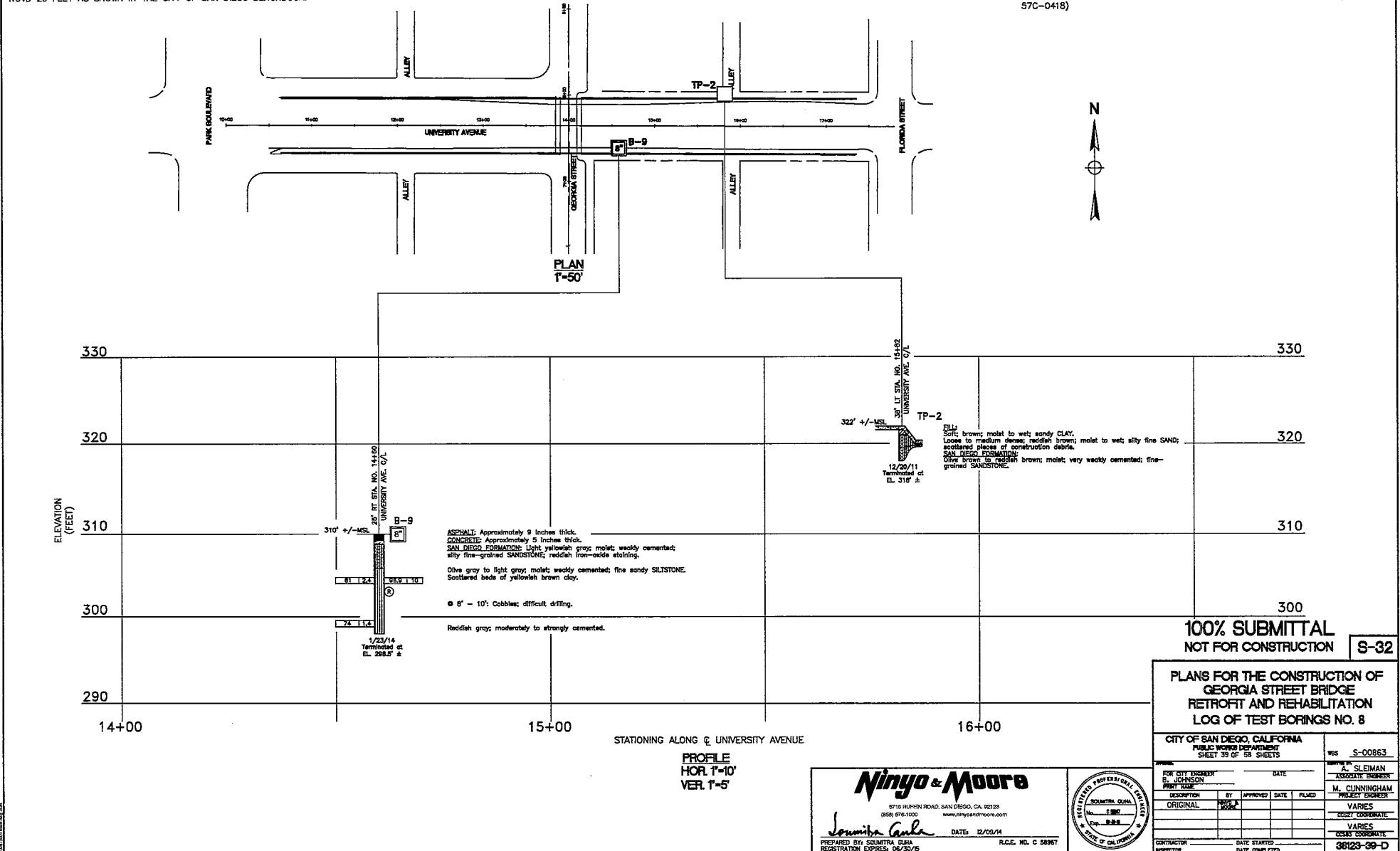


BENCH MARK

SEBP UNIVERSITY AVENUE AND FLORIDA STREET, ELEVATION 289.059 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCHBOOK.

REFERENCES

KLEINFELDER/SIMON WONG, 2014, IMPROVEMENT PLANS FOR SEISMIC RETROFIT AND REHABILITATION OF GEORGIA STREET BRIDGE OVER UNIVERSITY AVENUE (BRIDGE NO. 57C-0418)



100% SUBMITTAL
NOT FOR CONSTRUCTION **S-32**

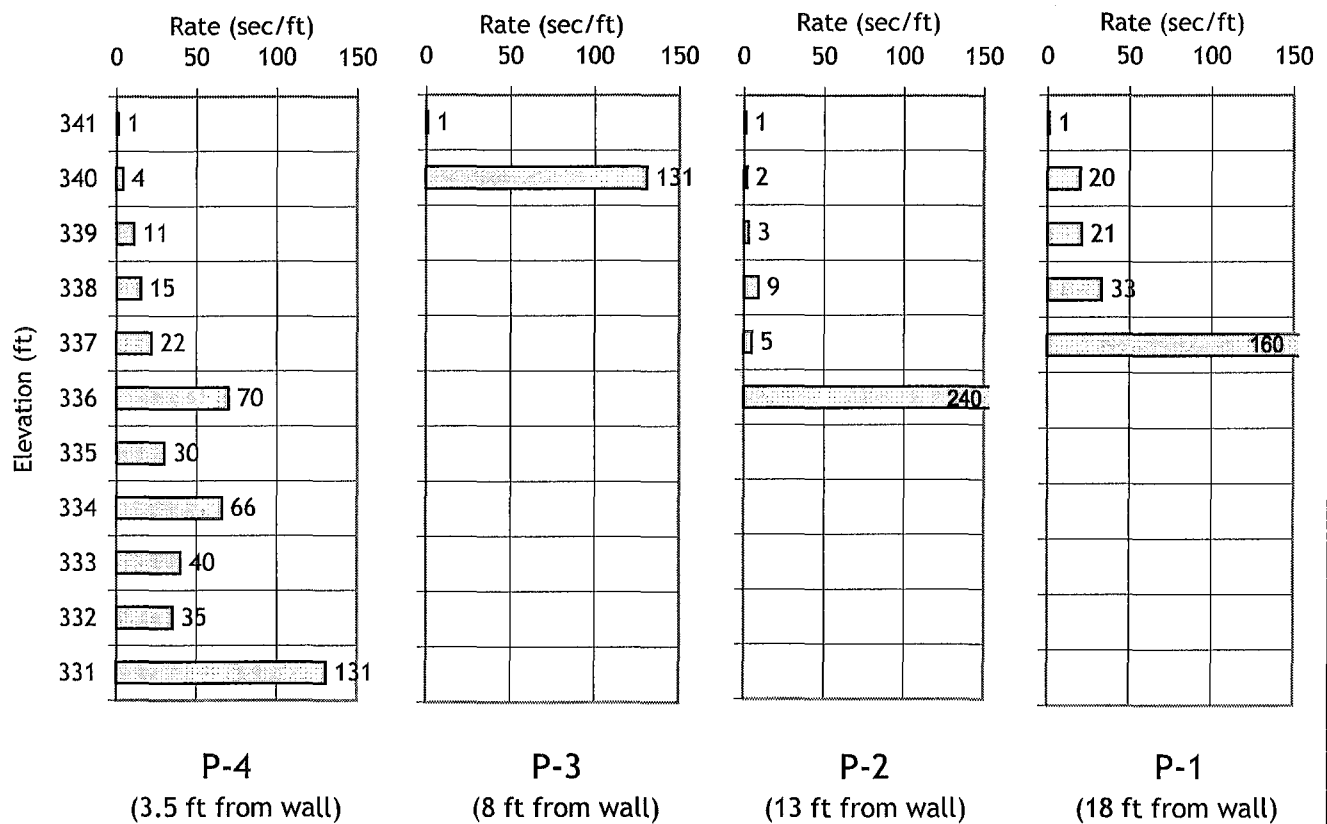
**PLANS FOR THE CONSTRUCTION OF
 GEORGIA STREET BRIDGE
 RETROFIT AND REHABILITATION
 LOG OF TEST BORINGS NO. 8**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 39 OF 58 SHEETS		ISS S-00863
FOR CITY ENGINEER B. JOHNSON	DATE	APPROVED A. SLEIMAN ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY M. CUNNINGHAM	DATE PROJECT ENGINEER
FILED	VARIES	DATE
	VARIES	DATE
	VARIES	DATE
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED	38123-39-D

Ningo & Moore
 5710 HURFEN ROAD, SAN DIEGO, CA 92123
 (858) 676-1000 www.ningoandmoore.com
 PREPARED BY: Soumitra Chakr DATE: 12/09/14 R.C.E. NO. C 58967



APPENDIX B
DRIVING RESISTANCE TESTING DATA



Ninyo & Moore

DRIVING RESISTANCE TESTING

FIGURE

PROJECT NO.

DATE

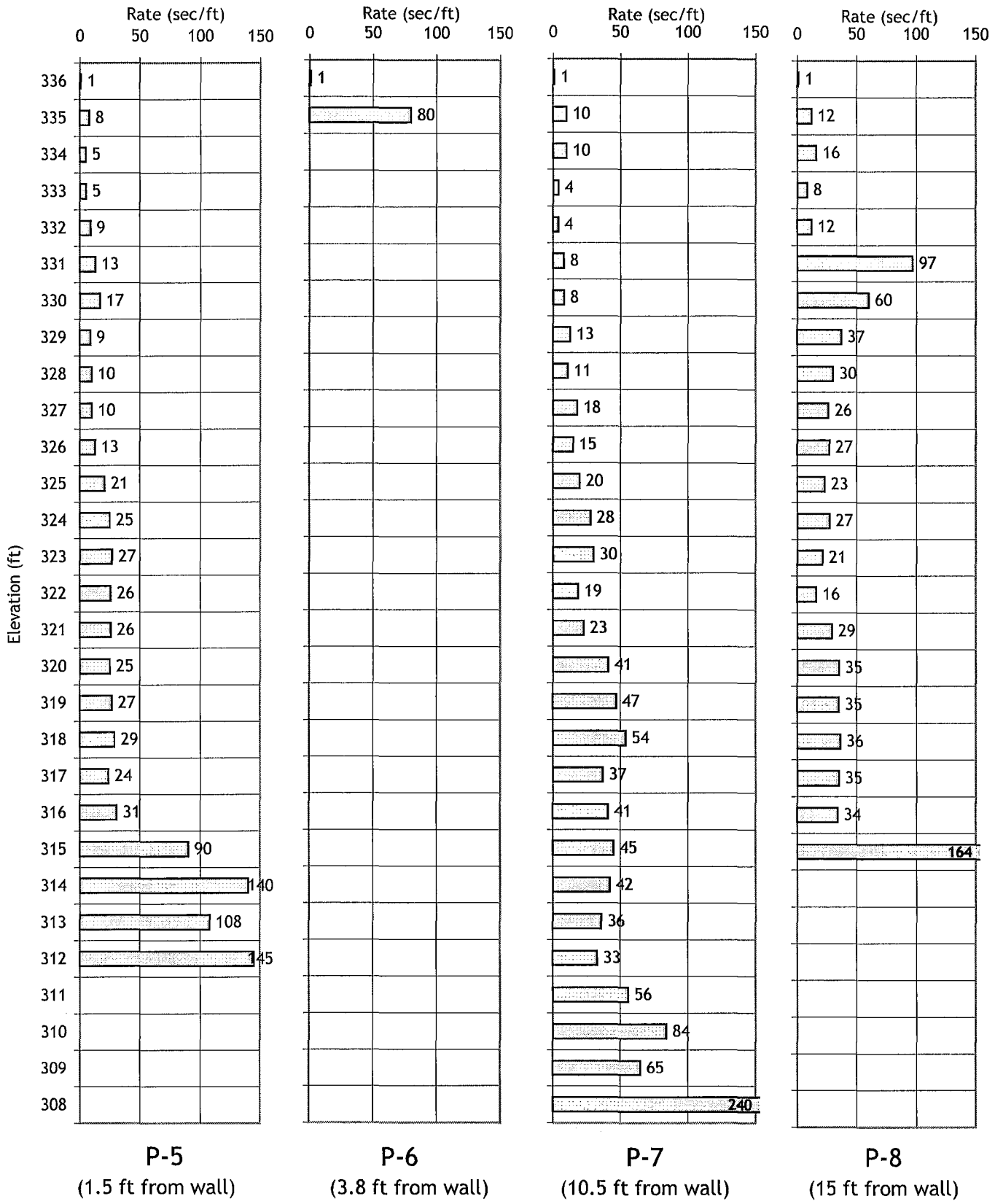
GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION
SAN DIEGO, CALIFORNIA

102875004

12/14

B-1

B1 102875004 DR.cdr



Ningo & Moore

DRIVING RESISTANCE TESTING

FIGURE

PROJECT NO.

DATE

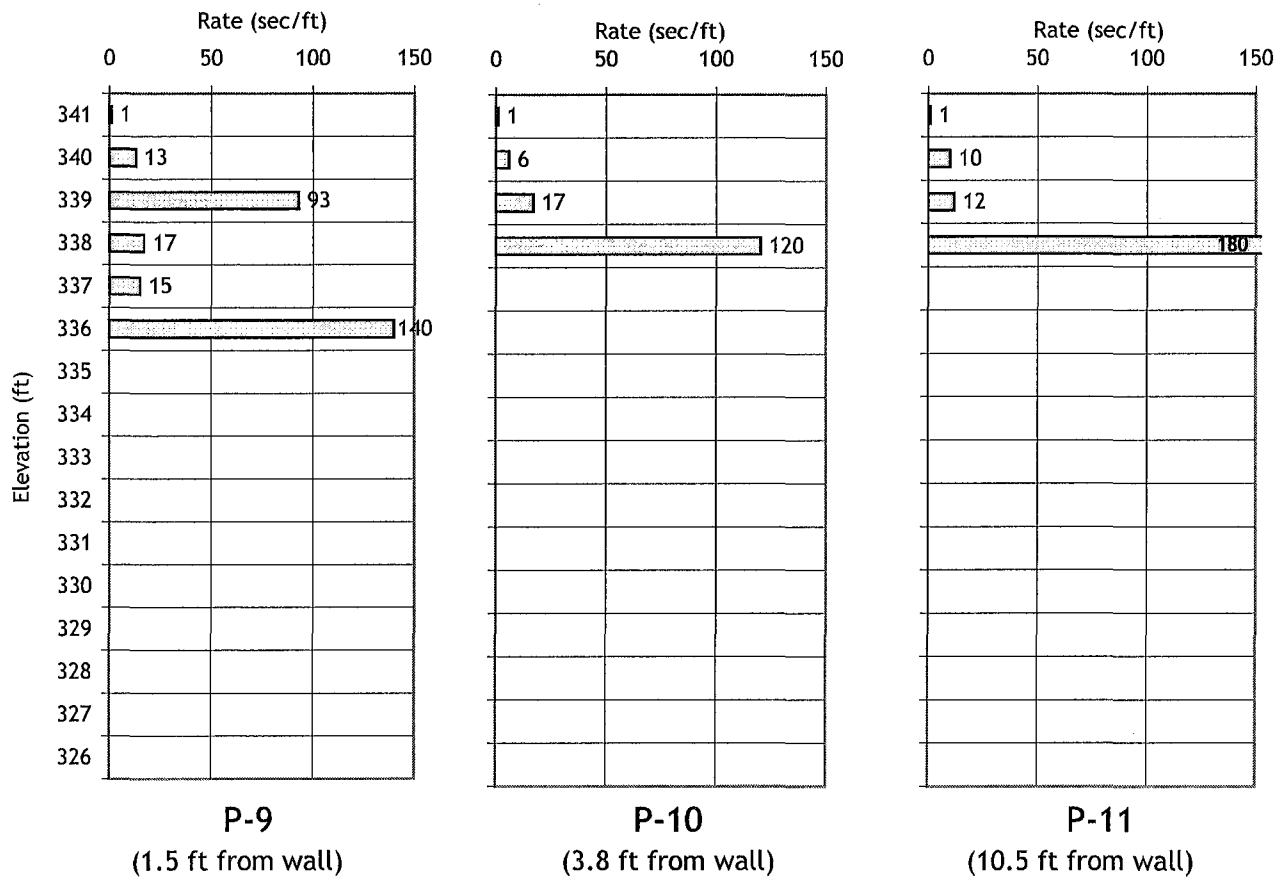
GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION
SAN DIEGO, CALIFORNIA

102875004

12/14

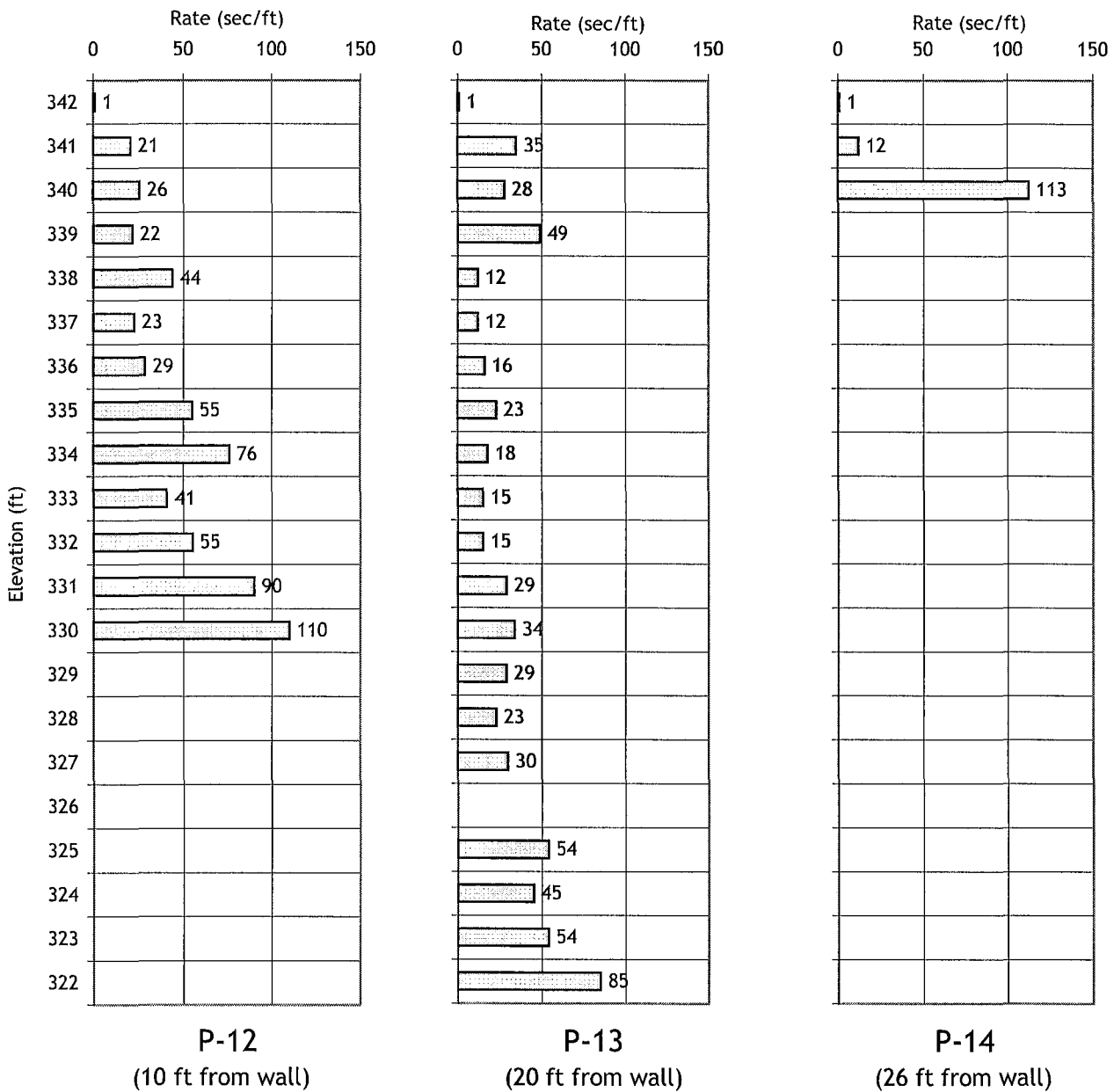
B-2

B2_102875004_DR.ctb



B3 102875004 DR.cdr

Ninya & Moore		DRIVING RESISTANCE TESTING	FIGURE B-3
PROJECT NO. 102875004	DATE 12/14	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	



B4 102875004_DR.cdr

Ninyo & Moore		DRIVING RESISTANCE TESTING	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	B-4
102875004	12/14		

APPENDIX C

LABORATORY TESTING

Classification

Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with American Society for Testing and Materials (ASTM) Test Method D 2488. Soil classifications are indicated on the logs of the exploratory borings and excavations in Appendix A.

In-Place Moisture and Density Tests

The moisture content and dry density of relatively undisturbed samples obtained from the exploratory borings were evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix A.

Gradation Analysis

Gradation analysis were performed on selected representative soil samples in general accordance with ASTM D 422. The grain-size distribution curves are shown on Figures C-1 through C-5. These test results were utilized in evaluating the soil classifications in accordance with USCS.

Expansion Index Test

The expansion index of a selected material was evaluated in general accordance with ASTM D 4829. The specimen was molded under a specified compactive energy at approximately 50 percent saturation (plus or minus 1 percent). The prepared 1-inch thick by 4-inch diameter specimen was loaded with a surcharge of 144 pounds per square foot and was inundated with tap water. Readings of volumetric swell were made for a period of 24 hours. The results of this test are presented on Figure C-6.

Direct Shear Test

Direct shear testing was performed on relatively undisturbed samples in general accordance with ASTM D 3080 to evaluate the shear strength characteristics of the selected materials. The samples were inundated during shearing to represent adverse field conditions. The results are shown on Figure C-7 through C-11.

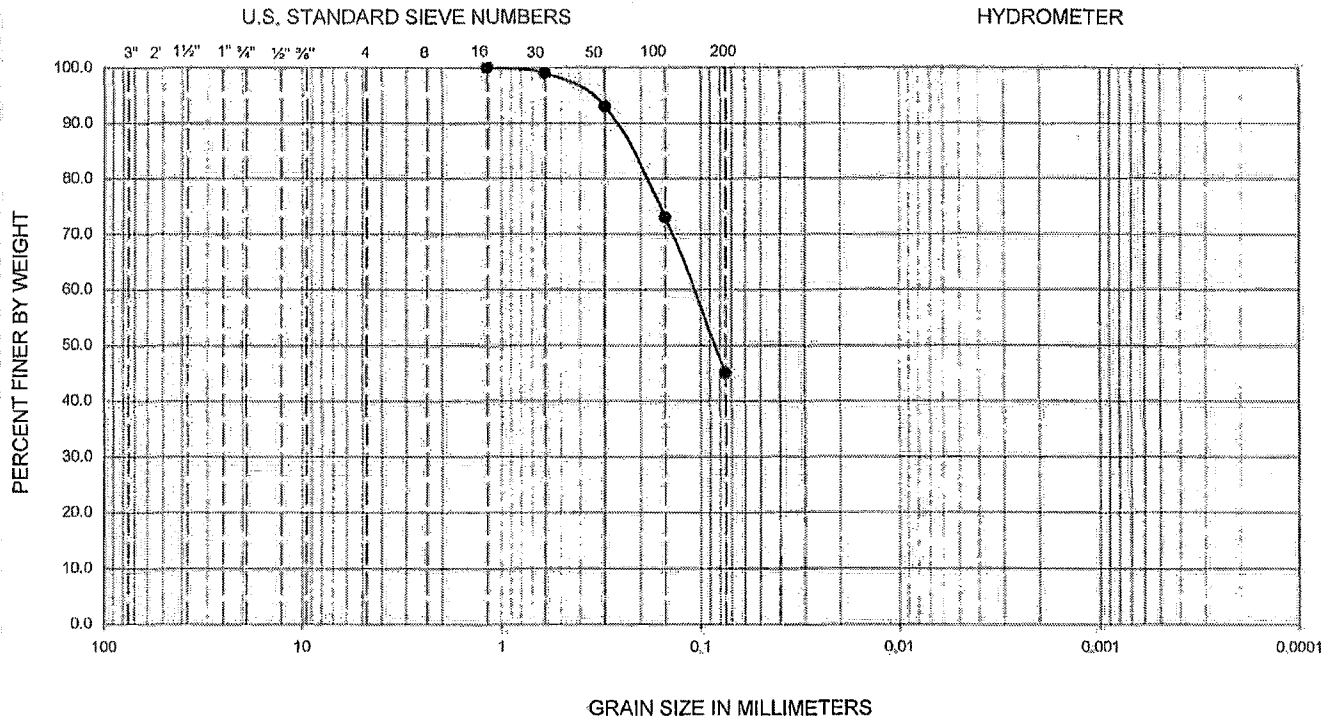
Soil Corrosivity Tests

Soil pH, and resistivity tests were performed on representative samples in general accordance with California Test (CT) 643. The soluble sulfate and chloride content of the selected samples were evaluated in general accordance with CT 417 and CT 422, respectively. The test results are presented on Figure C-12.

R-Value

The resistance value, or R-value, for a representative sample of the site soils was evaluated in general accordance with California Test (CT) 301. Samples were prepared and evaluated for exudation pressure and expansion pressure. The equilibrium R-value is reported as the lesser or more conservative of the two calculated results. The test results are shown on Figure C-13.

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



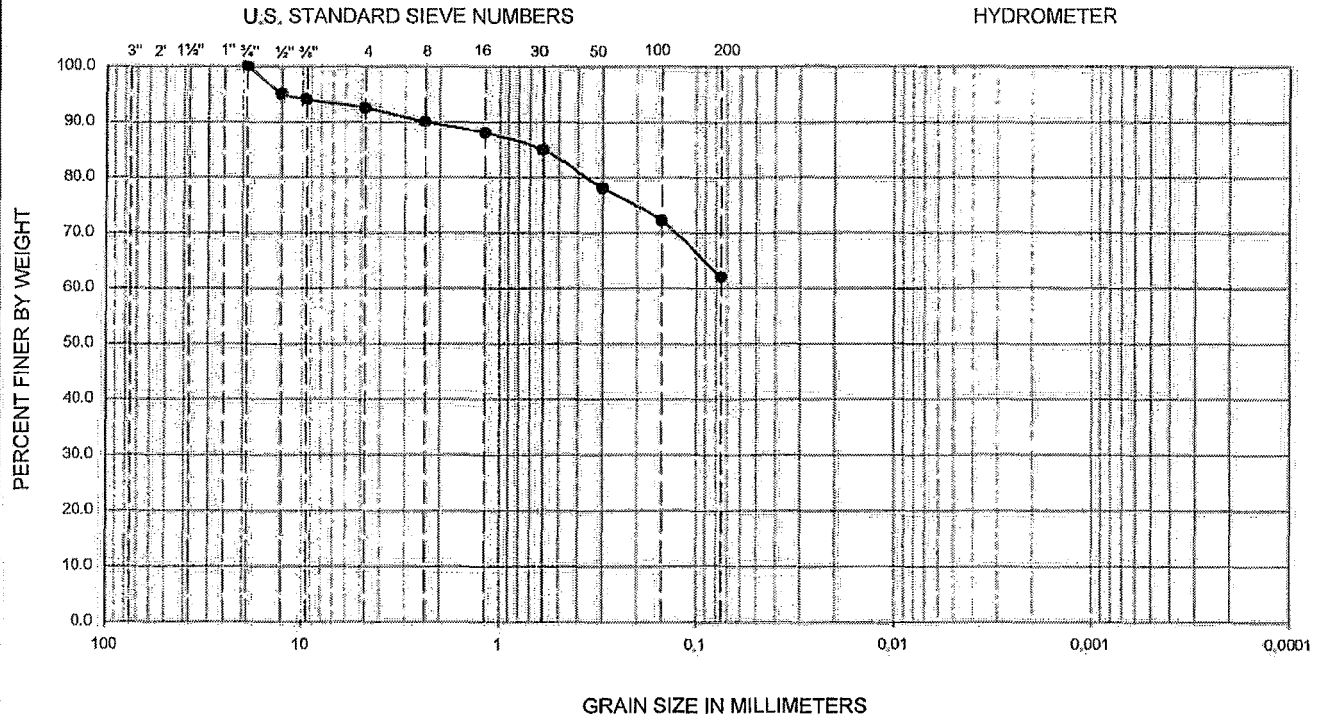
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (%)	Equivalent USCS
●	B-1	30.0-31.5	---	---	---	---	---	---	---	---	45	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

Ninyo & Moore		GRADATION TEST RESULTS		FIGURE C-1
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA		
102875004	12/14			

102875004_SIEVE B-1 @ 30.0-31.5

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



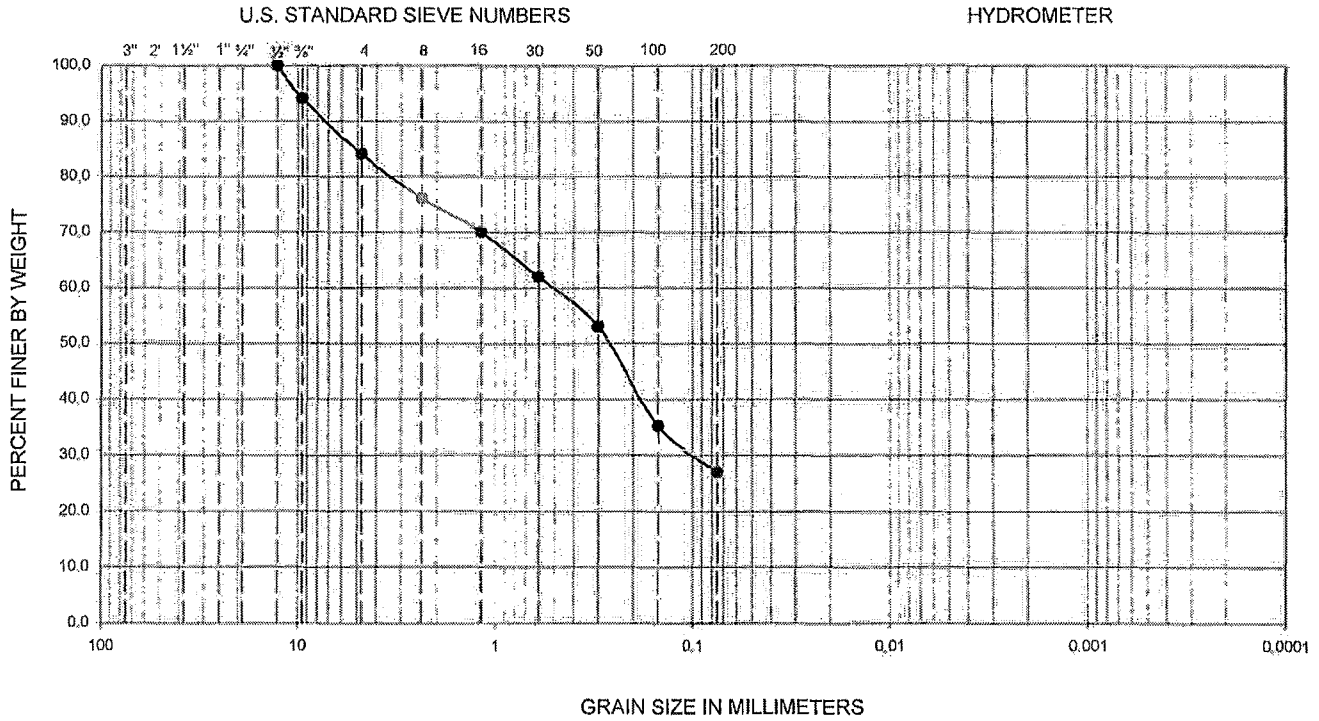
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (%)	USCS
●	B-2	16.0-18.0	---	---	---	---	---	---	---	---	62	ML

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

Ninyo & Moore		GRADATION TEST RESULTS		FIGURE C-2
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION		
102875004	12/14	SAN DIEGO, CALIFORNIA		

102875004_SIEVE B-2 @ 16.0-18.0

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



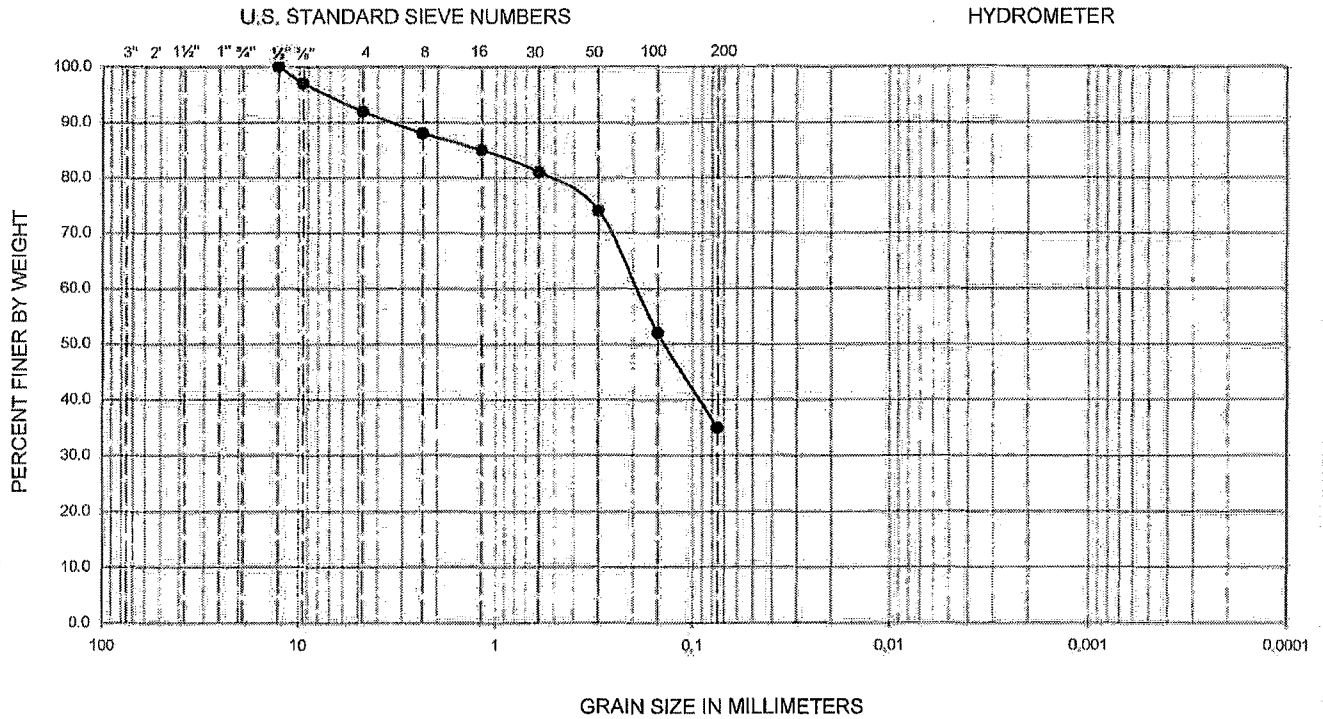
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (%)	USCS
●	B-4	1.5-5.0	---	---	---	---	---	---	---	---	27	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422-63 (02)

Ningo & Moore		GRADATION TEST RESULTS		FIGURE C-3
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA		
102875004	12/14			

102875004_SIEVE B-4 @ 1.5-5.0

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



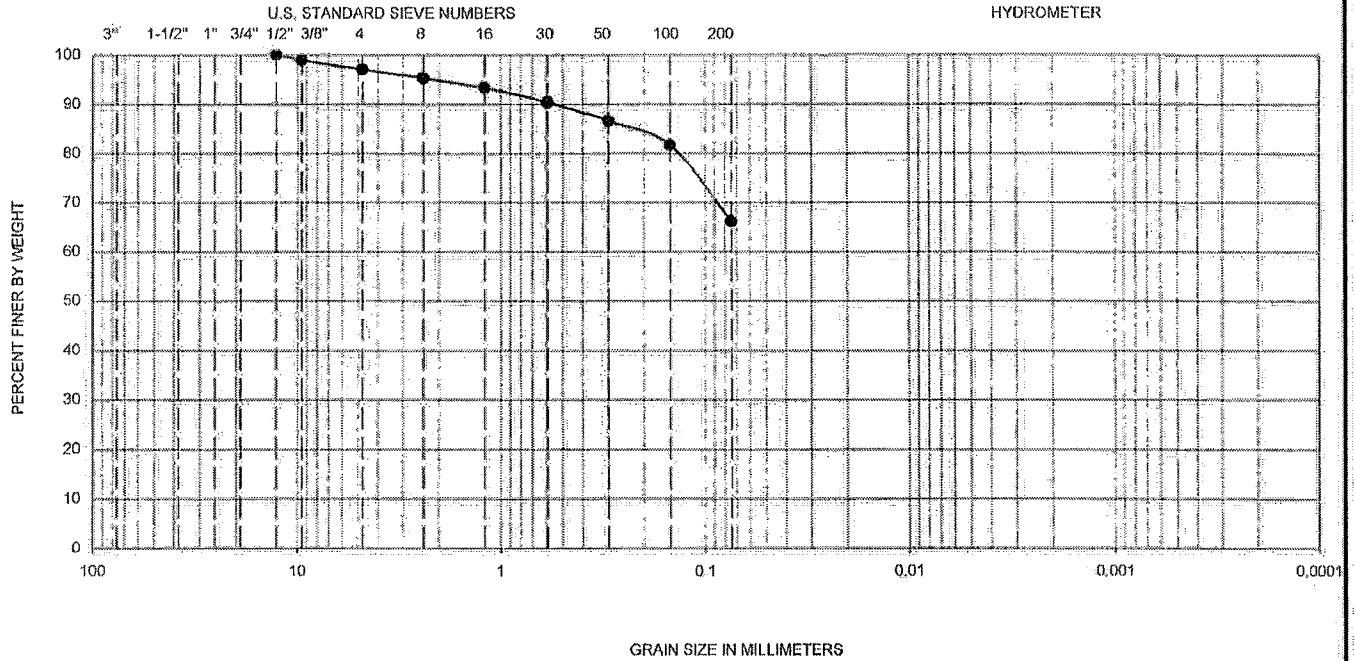
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (%)	USCS
●	B-5	1.5-5.0									35	SM-SC

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422-63 (02)

Ninyo & Moore		GRADATION TEST RESULTS		FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA		C-4
102875004	12/14			

102875004_SIEVE B-5 @ 1.5-5.0

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	Silt	Clay



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (%)	Equivalent USCS
●	B-8	3.0-8.0	---	---	---	---	---	---	---	---	66	ML

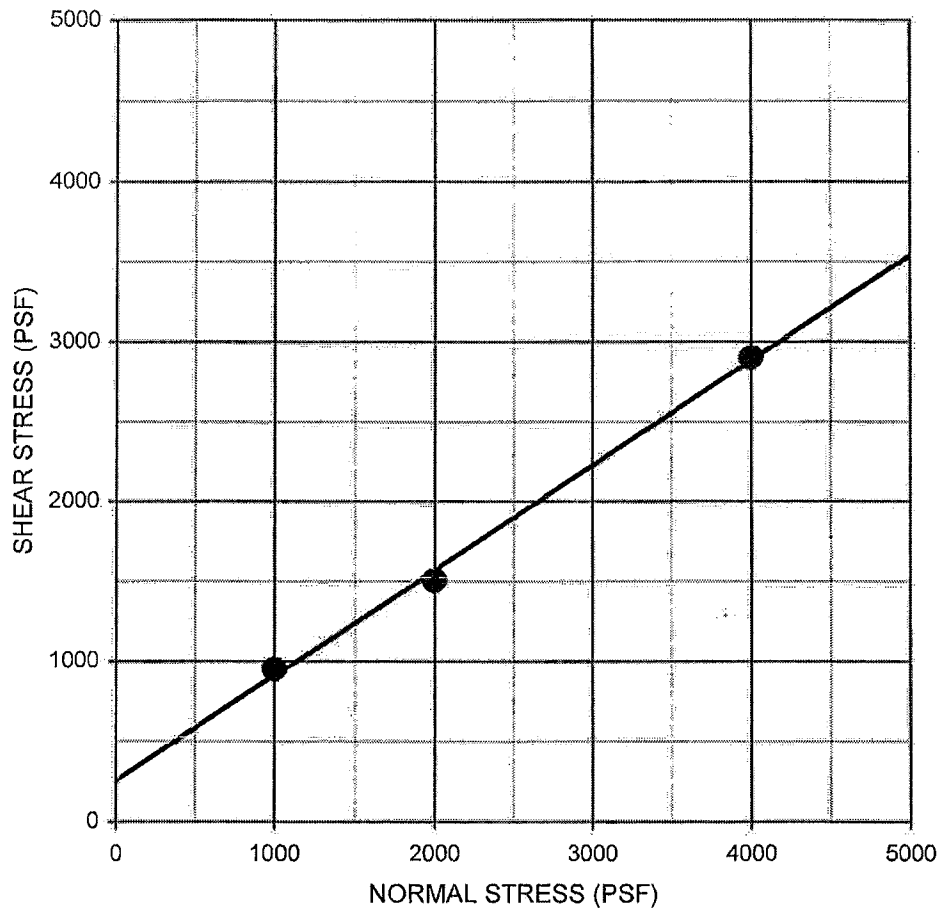
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

Ninyo & Moore		GRADATION TEST RESULTS		FIGURE C-5
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS		
102875004	12/14	SAN DIEGO, CALIFORNIA		

SAMPLE LOCATION	SAMPLE DEPTH (FT)	INITIAL MOISTURE (%)	COMPACTED DRY DENSITY (PCF)	FINAL MOISTURE (%)	VOLUMETRIC SWELL (IN)	EXPANSION INDEX	POTENTIAL EXPANSION
B-5	1.5-5.0	12.5	100.0	25.7	0.050	50	Low

PERFORMED IN GENERAL ACCORDANCE WITH UBC STANDARD 18-2 ASTM D 4829-03

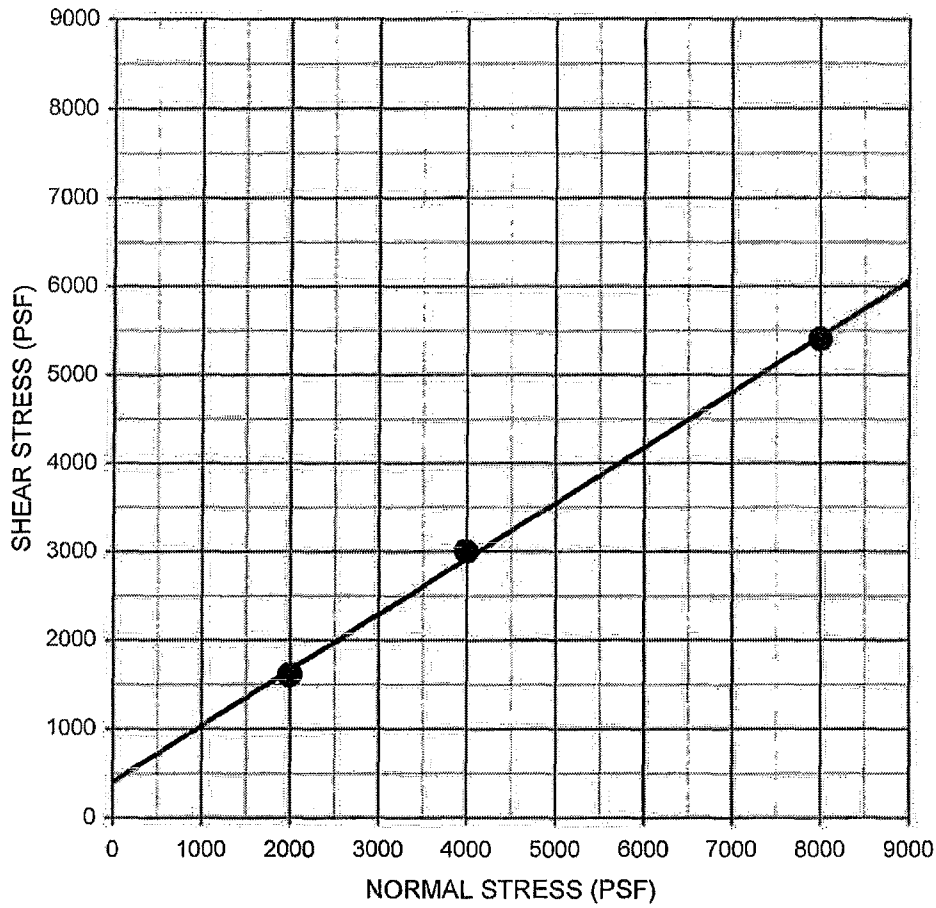
Ninyo & Moore		EXPANSION INDEX TEST RESULTS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	C-6
102875004	12/14		



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion, c (psf)	Friction Angle, ϕ (degrees)	Soil Type
Silty SANDSTONE		B-1	15.0-16.5	Peak	230	34	Formation

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

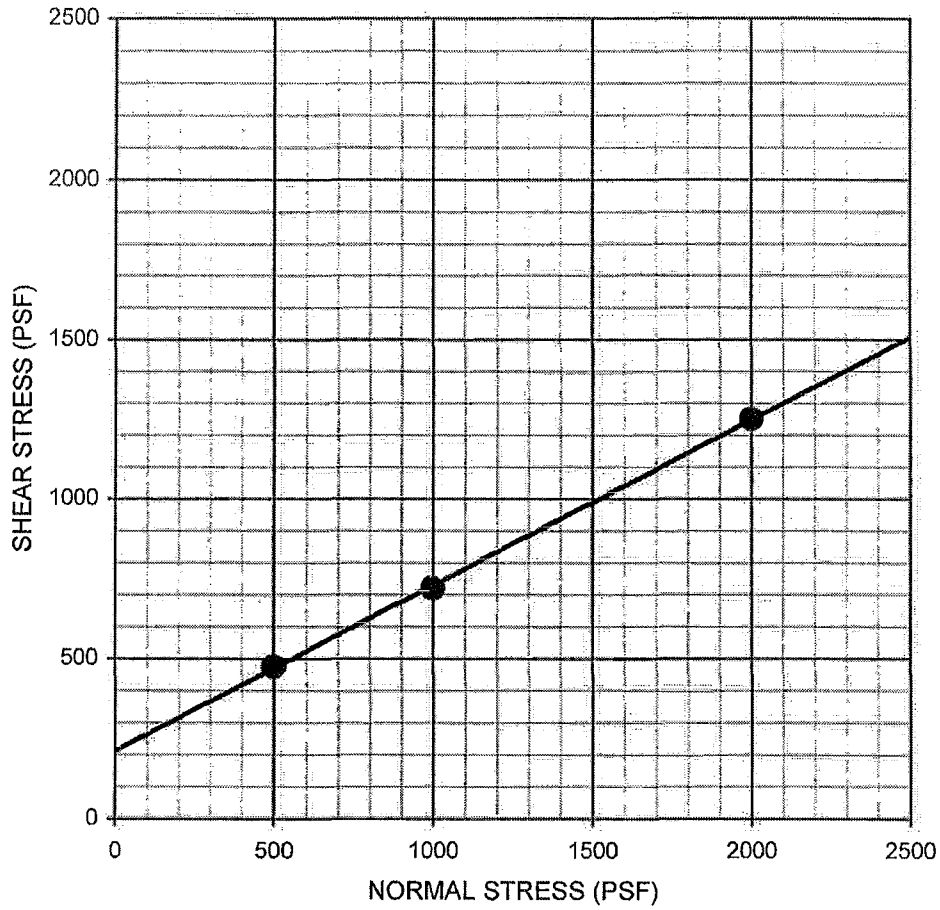
Ninyo & Moore		DIRECT SHEAR TEST RESULTS		FIGURE C-7
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA		
102875004	12/14			



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion, c (psf)	Friction Angle, ϕ (degrees)	Soil Type
Silty SANDSTONE	—●—	B-1	40.0-41.5	Peak	360	32	Formation

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

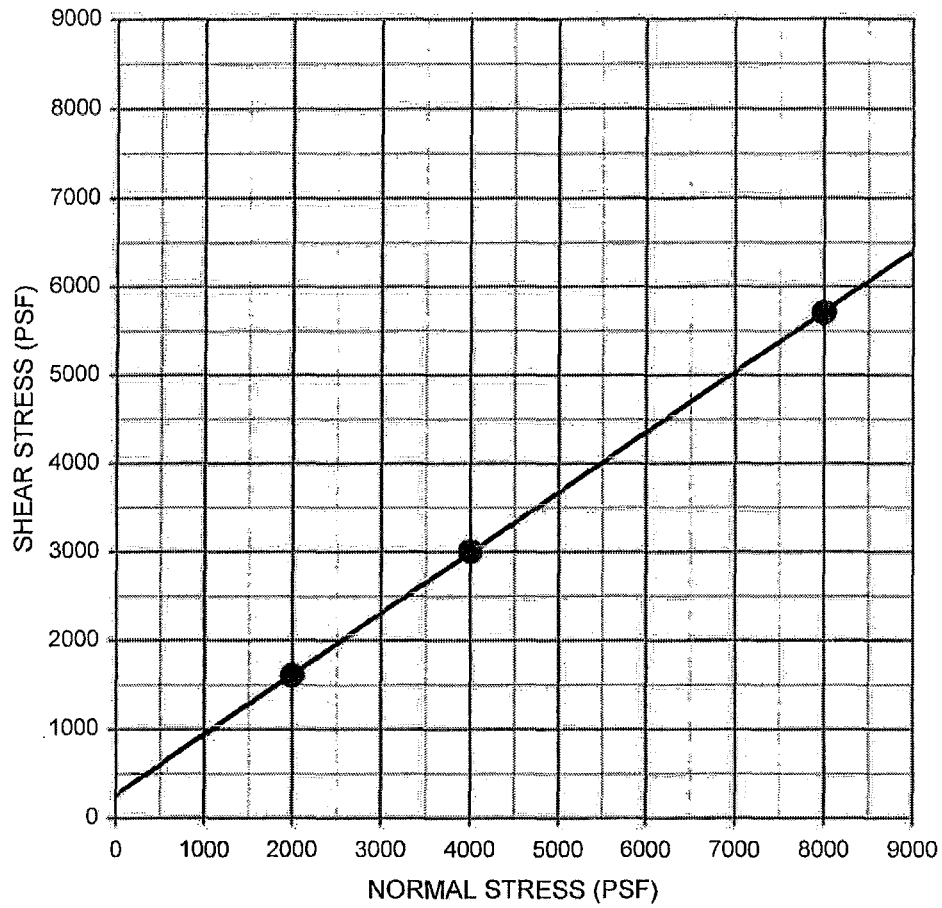
Ninyo & Moore		DIRECT SHEAR TEST RESULTS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	C-8
102875004	12/14		



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion, c (psf)	Friction Angle, ϕ (degrees)	Soil Type
Silty SAND		B-2	10.0-11.5	Peak	190	27	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

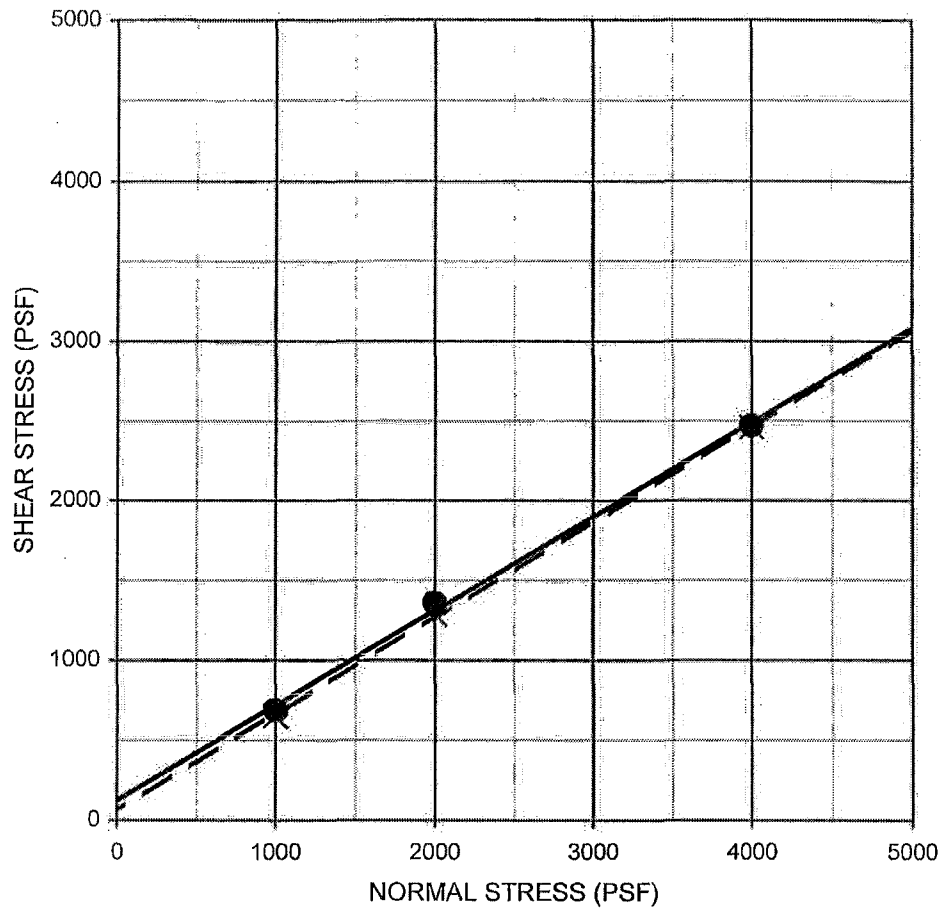
Ninyo & Moore		DIRECT SHEAR TEST RESULTS		FIGURE C-9
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION		
102875004	12/14	SAN DIEGO, CALIFORNIA		



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion, c (psf)	Friction Angle, ϕ (degrees)	Soil Type
Silty SANDSTONE		B-2	35.0-36.5	Peak	240	34	Formation

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080

Ninyo & Moore		DIRECT SHEAR TEST RESULTS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	C-10
102875004	12/14		



Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion, c (psf)	Friction Angle, ϕ (degrees)	Soil Type
Silty SAND	—●—	B-6	10.0-11.5	Peak	130	31	SM
Silty SAND	- - X - -	B-6	10.0-11.5	Ultimate	60	31	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 3080-04

Ningo & Moore		DIRECT SHEAR TEST RESULTS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	C-11
102875004	12/14		

SAMPLE LOCATION	SAMPLE DEPTH (FT)	pH ¹	RESISTIVITY ¹ (Ohm-cm)	SULFATE CONTENT ²		CHLORIDE CONTENT ³ (ppm)
				(ppm)	(%)	
B-1	32.0-34.0	6.1	2,110	1,890	0.189	50
B-2	25.0-26.5	6.6	6,600	120	0.012	50
B-5	1.5-5.0	6.8	1,000	180	0.018	930

¹ PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 643

² PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 417

³ PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 422

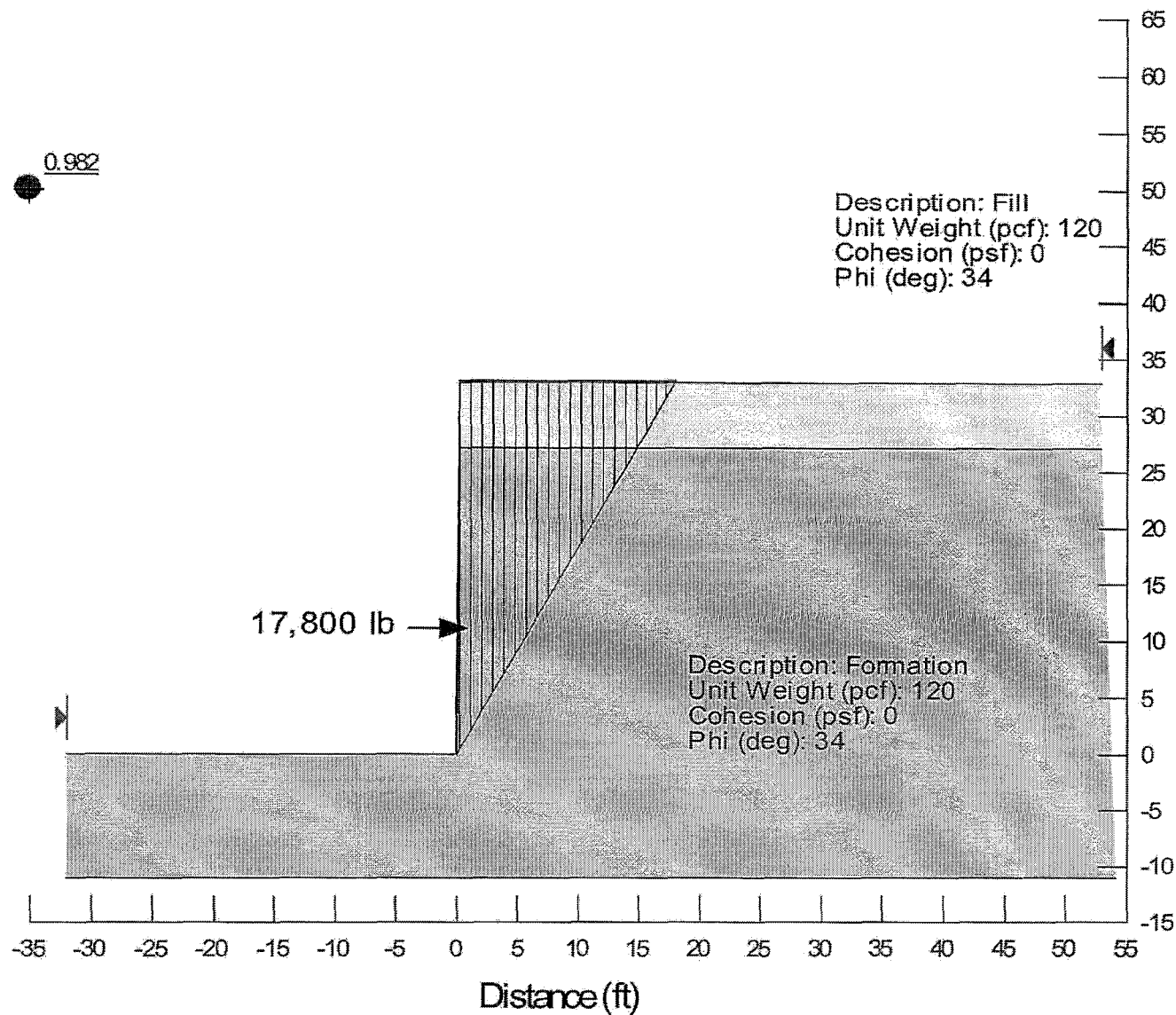
Ninyo & Moore		CORROSIVITY TEST RESULTS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	C-12
102875004	12/14		

SAMPLE LOCATION	SAMPLE DEPTH (FT)	SOIL TYPE	R-VALUE
B-1	7.0-9.0 + 13.0-15.0	Silty SANDSTONE Excavates as Silty SAND (SM)	11
B-9	5.0-10.0	Sandy SILTSTONE Excavates as Sandy SILT (ML)	30

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2844/CT 301

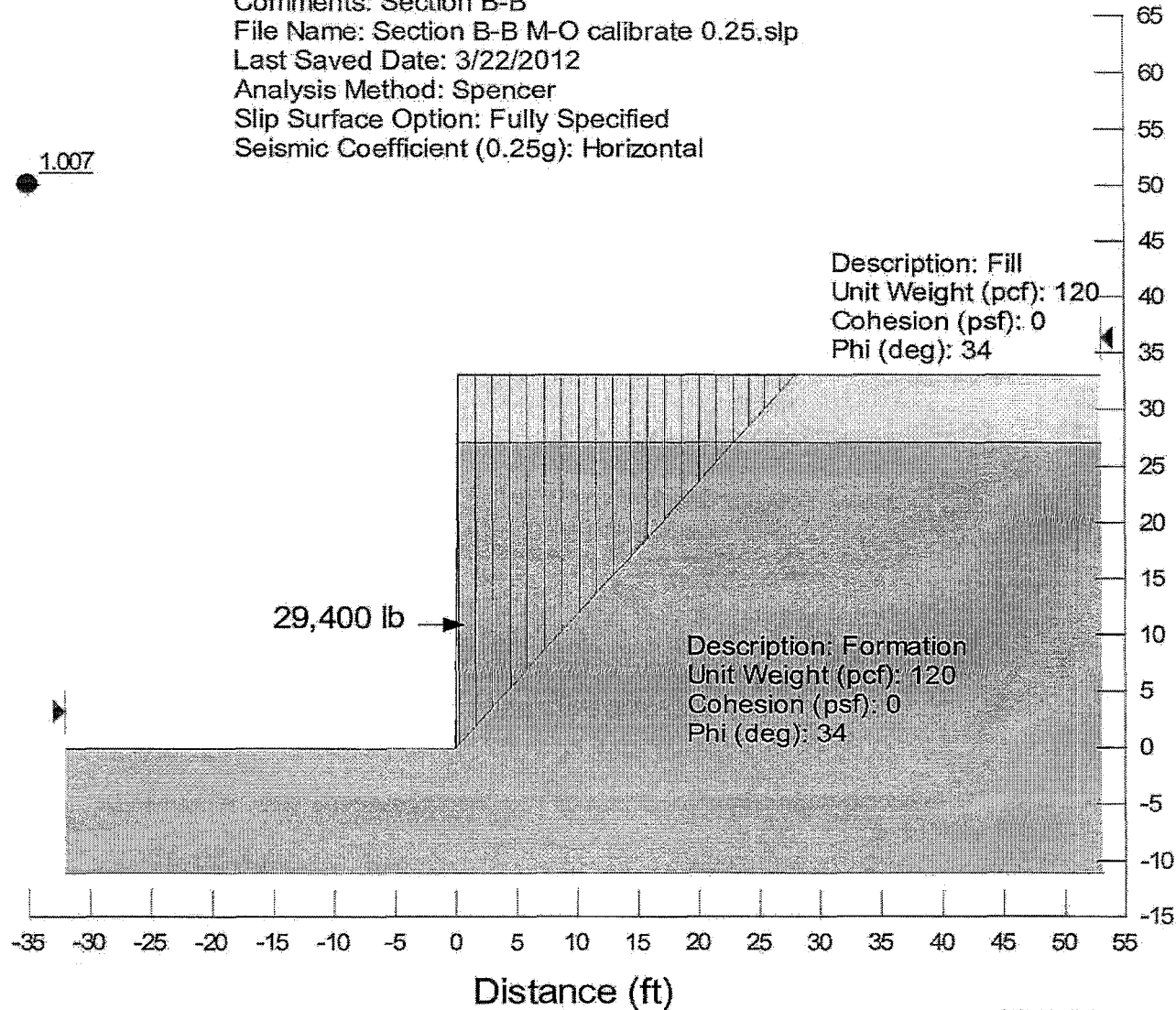
Ninyo & Moore		R-VALUE TEST RESULTS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE AND RETAINING WALLS REHABILITATION SAN DIEGO, CALIFORNIA	C-13
102875004	12/14		

APPENDIX D
SLOPE STABILITY ANALYSIS



<i>Ninyo & Moore</i>		CALIBRATION TO RANKINE ACTIVE EARTH PRESSURE	FIGURE
PROJECT NO. 102875003	DATE 3/12	GEORGIA STREET BRIDGE REHABILITATION SAN DIEGO, CALIFORNIA	D-1

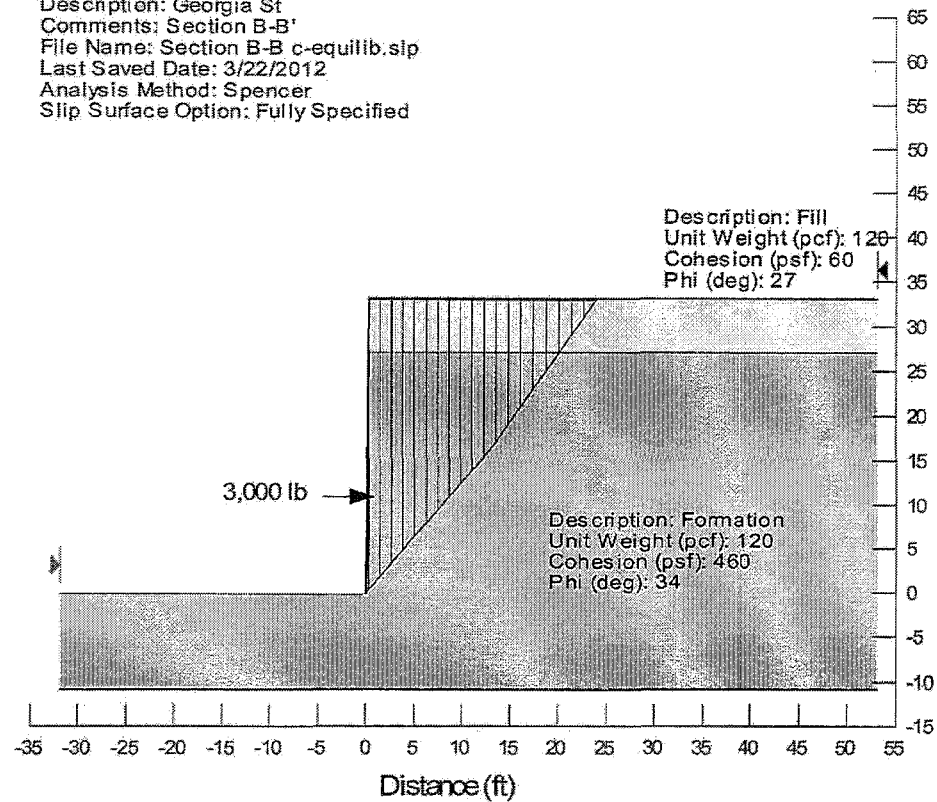
Description: Georgia St
 Comments: Section B-B'
 File Name: Section B-B M-O calibrate 0.25.slp
 Last Saved Date: 3/22/2012
 Analysis Method: Spencer
 Slip Surface Option: Fully Specified
 Seismic Coefficient (0.25g): Horizontal



<i>Ninyo & Moore</i>		CALIBRATION TO MONONOBE-OKABE TOTAL DYNAMIC PRESSURE	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE REHABILITATION SAN DIEGO, CALIFORNIA	D-2
102875003	3/12		

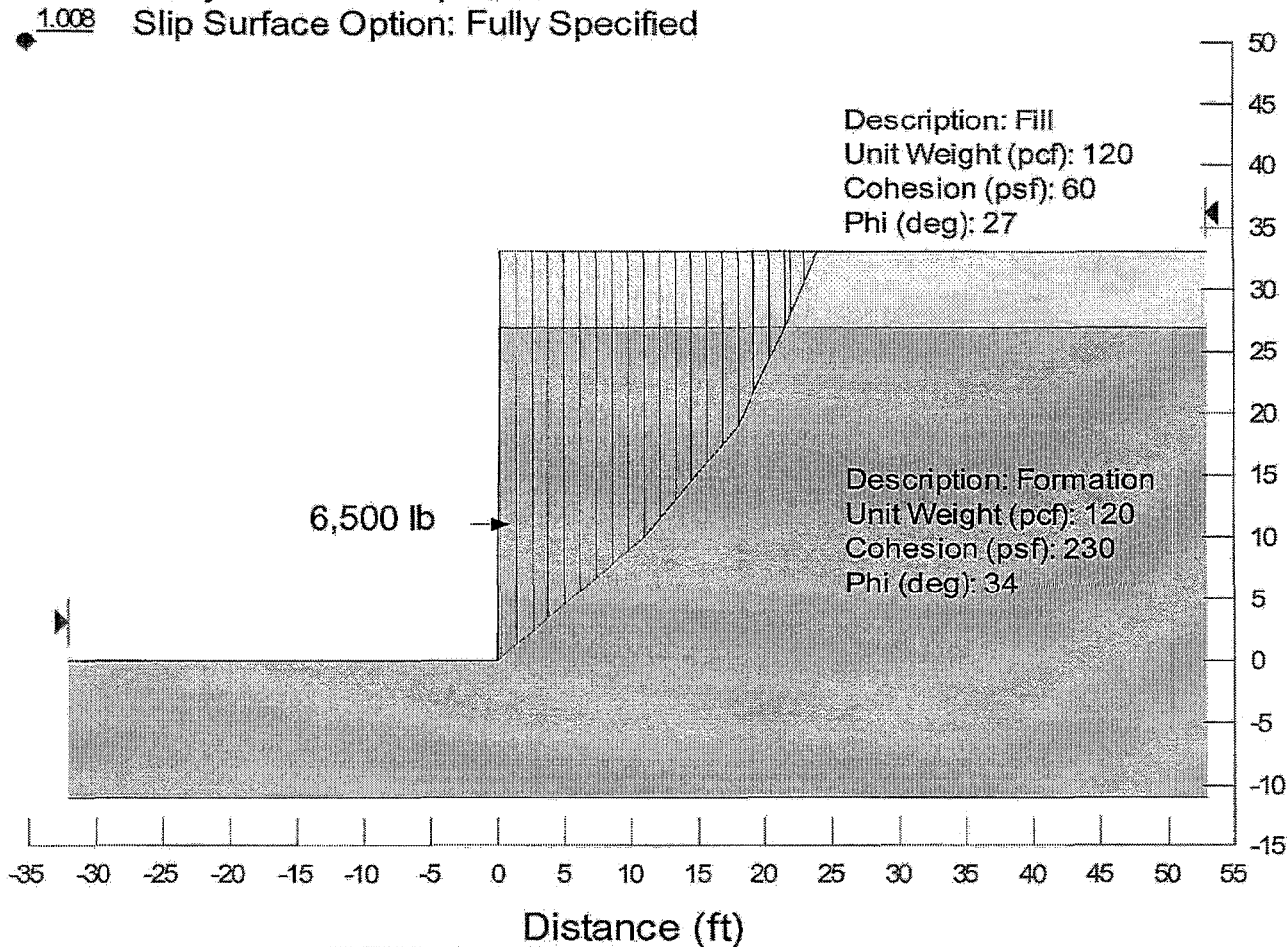
0.997

Description: Georgia St
 Comments: Section B-B'
 File Name: Section B-B c-equilib.sip
 Last Saved Date: 3/22/2012
 Analysis Method: Spencer
 Slip Surface Option: Fully Specified



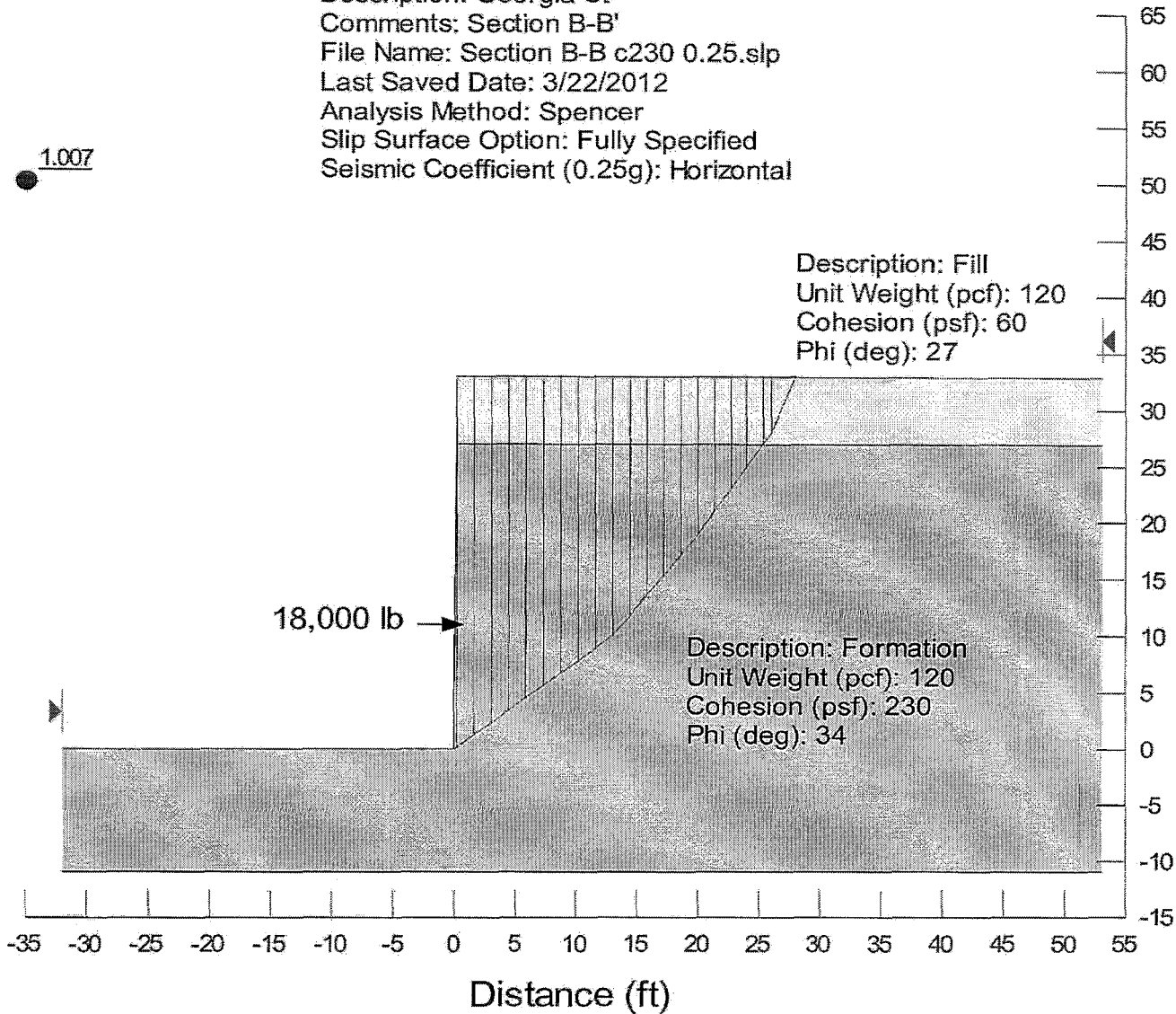
<i>Ninyo & Moore</i>		BACKCALCULATED COHESION STATIC MOMENT EQUILIBRIUM	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE REHABILITATION SAN DIEGO, CALIFORNIA	D-3
102875003	3/12		

Description: Georgia St
 Comments: Section B-B'
 File Name: Section B-B c230.slp
 Last Saved Date: 3/22/2012
 Analysis Method: Spencer
 Slip Surface Option: Fully Specified



Ninyo & Moore		STATIC EARTH PRESSURE	FIGURE D-4
PROJECT NO.	DATE	GEORGIA STREET BRIDGE REHABILITATION SAN DIEGO, CALIFORNIA	
102875003	3/12		

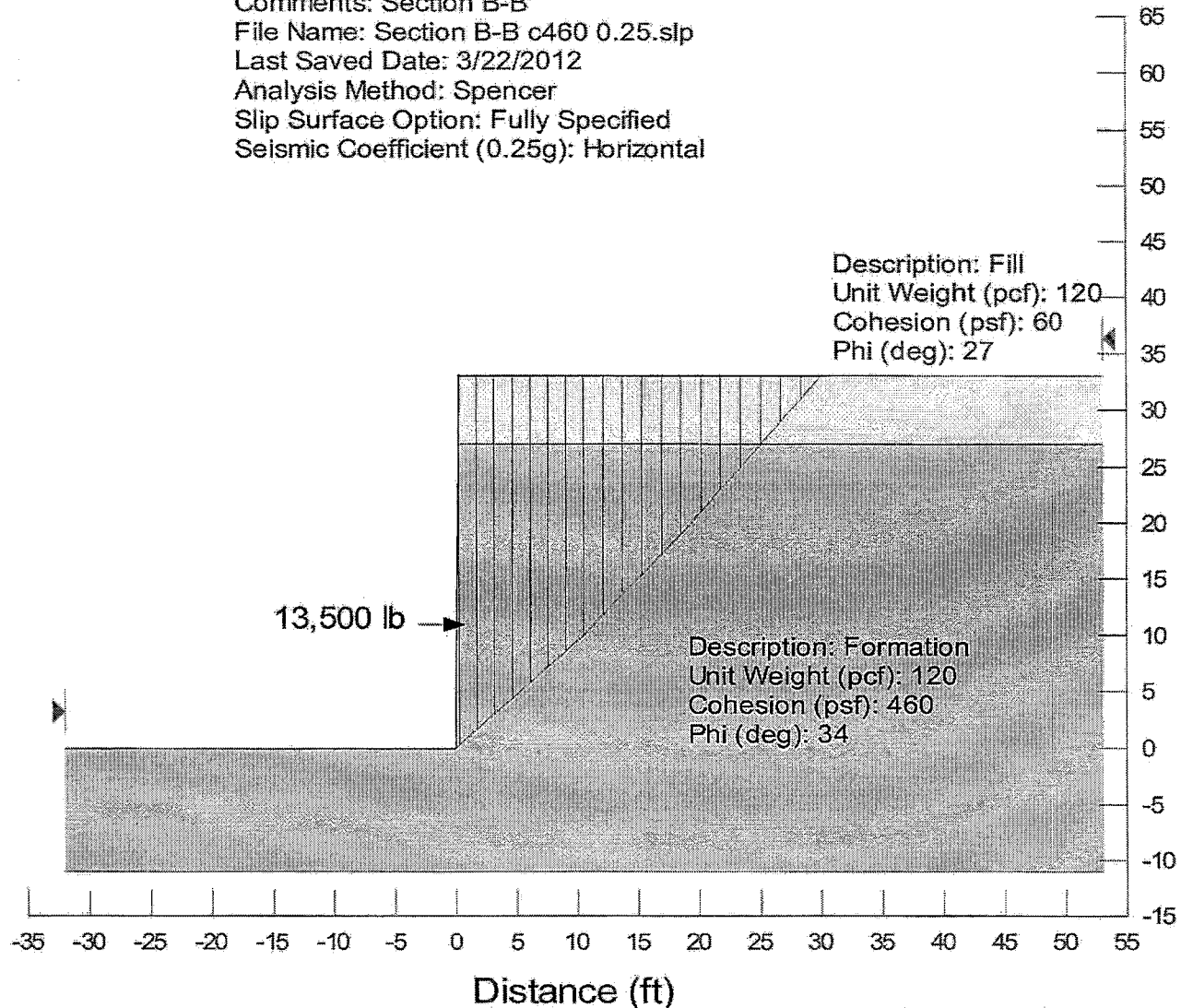
Description: Georgia St
 Comments: Section B-B'
 File Name: Section B-B c230 0.25.slp
 Last Saved Date: 3/22/2012
 Analysis Method: Spencer
 Slip Surface Option: Fully Specified
 Seismic Coefficient (0.25g): Horizontal



<i>Ninyo & Moore</i>		TOTAL DYNAMIC EARTH PRESSURE LABORATORY SOIL PARAMETERS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE REHABILITATION SAN DIEGO, CALIFORNIA	D-5
102875003	3/12		

1.001

Description: Georgia St
 Comments: Section B-B'
 File Name: Section B-B c460 0.25.slp
 Last Saved Date: 3/22/2012
 Analysis Method: Spencer
 Slip Surface Option: Fully Specified
 Seismic Coefficient (0.25g): Horizontal



<i>Ningo & Moore</i>		TOTAL DYNAMIC EARTH PRESSURE EQUILIBRIUM SOIL PARAMETERS	FIGURE
PROJECT NO.	DATE	GEORGIA STREET BRIDGE REHABILITATION SAN DIEGO, CALIFORNIA	D-6
102875003	3/12		

APPENDIX I
HAZARDOUS LABEL/FORMS

HAZARDOUS LABELS / FORMS

HAZARDOUS WASTE			
STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES			
GENERATOR NAME _____		24 HRL. PHONE _____	
ADDRESS _____			
CITY _____	STATE _____	ZIP _____	
EPA ID NO. _____	MANIFEST DOCUMENT NO. _____		
EPA WASTE NO. _____	CA WASTE NO. _____	ACCUMULATION START DATE _____	
CONTENTS, COMPOSITION			
PROPER DOT SHIPPING NAME _____			
TECHNICAL NAME (S) _____			
UNNA NO. WITH PREFIX _____			
PHYSICAL STATE	HAZARDOUS PROPERTIES	<input type="checkbox"/> FLAMMABLE	<input type="checkbox"/> TOXIC
<input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID	<input type="checkbox"/> CORROSIVE	<input type="checkbox"/> REACTIVE	<input type="checkbox"/> OTHER _____
HANDLE WITH CARE!			
CONTAINS HAZARDOUS OR TOXIC WASTES			

INCIDENT/RELEASE ASSESSMENT FORM ¹

If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

Questions for Incident Assessment:

	YES	NO
1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	<input type="checkbox"/>	<input type="checkbox"/>
2. Did anyone, other than employees in the immediate area of the release, evacuate?	<input type="checkbox"/>	<input type="checkbox"/>
3. Did the release cause off-site damage to public or private property?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the release greater than or equal to a reportable quantity (RQ)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Was there an uncontrolled or unpermitted release to the air?	<input type="checkbox"/>	<input type="checkbox"/>
6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	<input type="checkbox"/>	<input type="checkbox"/>
8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	<input type="checkbox"/>	<input type="checkbox"/>
10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

Call 911 in an emergency

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a “no” response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

¹ This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DESCRIPTION

Incident # _____

Date/Time Discovered	Date/Time Discharge	Discharge Stopped <input type="checkbox"/> Yes <input type="checkbox"/> No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

3. CHEMICAL INFORMATION

Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER () -
B	INCIDENT DATE MO DAY YR	TIME OES NOTIFIED (use 24 hr time)
C	INCIDENT ADDRESS LOCATION	CITY / COMMUNITY COUNTY ZIP
D	CHEMICAL OR TRADE NAME (print or type)	CAS Number
E	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A <input type="checkbox"/>	CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) <input type="checkbox"/>
F	PHYSICAL STATE CONTAINED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	PHYSICAL STATE RELEASED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS
G	ENVIRONMENTAL CONTAMINATION <input type="checkbox"/> AIR <input type="checkbox"/> WATER <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER	QUANTITY RELEASED TIME OF RELEASE DURATION OF RELEASE — DAYS — HOURS — MINUTES
H	ACTIONS TAKEN	
I	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information) <input type="checkbox"/> ACUTE OR IMMEDIATE (explain) _____ <input type="checkbox"/> CHRONIC OR DELAYED (explain) _____ <input type="checkbox"/> NOTKNOWN (explain) _____	
J	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS	
K	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)	
L	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type) _____ SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____	

EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO:

**State Emergency Response Commission (SERC)
Attn: Section 304 Reports
Hazardous Materials Unit
3650 Schriever Avenue
Mather, CA 95655**

NOTE: Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

APPENDIX J
SAMPLE OF PUBLIC NOTICES



CONSTRUCTION NOTICE

PROJECT NAME

The work will consist of:

- *Edit this information:* The construction work will include pot holing in the northbound curb lane of Torrey Pines Road between Coast Walk and Princess Street.

How your neighborhood may be impacted:

- *Edit this information:* Traffic delays due to lane closure.
- Two-way traffic will be maintained at all times.

Anticipated Construction Schedule

- *Edit this information:* The project upgrades for the entire neighborhood have been ongoing and now are scheduled to start on your street.
- The entire neighborhood project started in ____ and is anticipated to be complete in ____.

Hours and Days of Operation

- *Edit this information:* Monday to Friday (7:30 a.m. to 4 p.m.)

For questions related to this work
 Call: (619) 533-4207
 Email: engineering@sandiego.gov
 Visit: sandiego.gov/CIP



This information is available in alternative formats upon request.



CONSTRUCTION NOTICE

PROJECT NAME

The work will consist of:

- *Edit this information:* The construction work will include pot holing in the northbound curb lane of Torrey Pines Road between Coast Walk and Princess Street.

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- *Edit this information:* Monday to Friday (7:30 a.m. to 4 p.m.)

For questions related to this work
 Call: (619) 533-4207
 Email: engineering@sandiego.gov
 Visit: sandiego.gov/CIP



This information is available in alternative formats upon request.

ATTACHMENT F
INTENTIONALLY LEFT BLANK

ATTACHMENT G
CONTRACT AGREEMENT

CONTRACT AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and Reyes Construction, Inc., herein called "Contractor" for construction of **Seismic Retrofit and Rehabilitation of Georgia Street**; Bid No. **K-16-1316-DBB-3-B**; in the amount of **Eight Million Two Hundred Forty-Eight Thousand Four Hundred Thirty Dollars and .00/100 (\$8,248,430.00)**, which is comprised of the Base Bid.

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

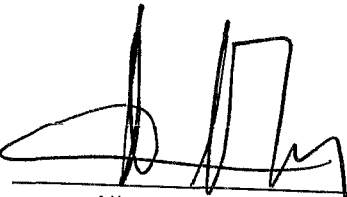
1. The following are incorporated into this contract as though fully set forth herein:
 - (a) The attached Faithful Performance and Payment Bonds.
 - (b) The attached Proposal included in the Bid documents by the Contractor.
 - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
 - (e) That certain documents entitled **Seismic Retrofit and Rehabilitation of Georgia Street Bridge over University Avenue**, on file in the office of the Public Works Department as Document No. **S-00863**, 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 **Seismic Retrofit and Rehabilitation of Georgia Street Bridge over University Avenue**, Bid Number **K-16-1316-DBB-3-B**, 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 AGREEMENT (continued)


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

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

By: 
Albert P. Rechany
Deputy Director
Public Works Department

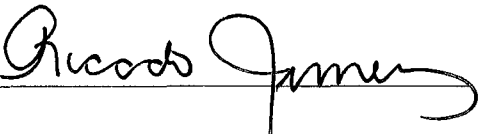
Jan I. Goldsmith, City Attorney

By: 
Print Name: Jeremy Jung
Deputy City Attorney

Date: 5/25/16

Date: 5/27/16

CONTRACTOR

By: 
Print Name: Ricardo Jimenez
Title: Vice President

Date: April 7, 2016

City of San Diego License No.: B2004014018

State Contractor's License No.: 507561

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: _____

1000011831 Expires 4/30/10

CERTIFICATIONS AND FORMS

Instruction to Bidders, Section 1 - The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this bid are true and correct.

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.

Caltrans funded contracts or Tasks, the Project shall be constructed in accordance with the Caltrans Special Provisions (including the payment of not less than the minimum wages set forth therein) and the Contract annexed hereto and in accordance with the Caltrans Standard Specifications dated May 2006, Standard Plans dated May 2006, Traffic Signal Control Equipment Specifications dated January, 1989, Labor Surcharge and Equipment Rental Rates in effect on the date the Work is accomplished, and General Prevailing Wage Rates of the State of California, Department of Transportation.

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND
SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND
PUBLIC CONTRACT CODE 7106**

State of California

County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

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;

This company_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.

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

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;

This company 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.

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 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 § 22.3004.

AFFIDAVIT OF DISPOSAL

**(To be submitted upon completion of Construction pursuant to the
contracts Certificate of completion)**

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

(Name of Project or Task)

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

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

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

Dated this _____ DAY OF _____, _____.

Contractor

by

ATTEST:

State of _____ County of _____

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

Notary Public in and for said County and State

ELECTRONICALLY SUBMITTED FORMS

THE FOLLOWING FORMS MUST BE SUBMITTED IN PDF FORMAT WITH BID SUBMISSION

The following forms are to be completed by the bidder and submitted (uploaded) electronically with the bid in PlanetBids.

- A. BID BOND – See Instructions to Bidders, Bidders
Guarantee of Good Faith (Bid Security) for further
instructions**
- B. CONTRACTOR’S CERTIFICATION OF PENDING
ACTIONS**
- C. EQUAL BENEFITS ORDINANCE - CERTIFICATION
OF COMPLIANCE**
- D. DEBARMENT AND SUSPENSION CERTIFICATION**
- E. CERTIFICATION WITH REGARD TO THE
PERFORMANCE OF PREVIOUS CONTRACTS OR
SUBCONTRACTS SUBJECT TO THE EQUAL
OPPORTUNITY CLAUSE AND THE FILING OF
REQUIRED REPORTS**
- F. PUBLIC CONTRACT CODE SECTION 10162
QUESTIONNAIRE**
- G. NON-LOBBYING CERTIFICATION**
- H. Disadvantaged Business Enterprise (DBE) Program DBE
Subcontractor Performance Form**

**Bids will not be accepted until ALL forms are submitted
as part of the bid submittal**

BID BOND

**See Instructions to Bidders, Bidder Guarantee of Good Faith
(Bid Security)**

KNOW ALL MEN BY THESE PRESENTS,

That Reyes Construction, Inc. as Principal, and
Fidelity and Deposit Company of Maryland as Surety, are
held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of 10%
OF THE TOTAL BID AMOUNT for the payment of which sum, well and truly to be made, we
bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally,
firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required
under the bidding schedule(s) of the OWNER's Contract Documents entitled

Seismic Retrofit and Rehabilitation of Georgia Street Bridge over University Avenue

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time
and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form
of agreement bound with said Contract Documents, furnishes the required certificates of insurance,
and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null
and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond
by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in
such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 19th day of February, 20 16

Reyes Construction, Inc. (SEAL)
(Principal)

Fidelity and Deposit Company of Maryland (SEAL)
(Surety)

By: Ricardo Jimenez
(Signature)
Ricardo Jimenez, Vice President

By: Jase Hamilton
(Signature)
Jase Hamilton, Attorney-in-Fact

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Maryland, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Maryland (herein collectively called the "Companies"), by **MICHAEL BOND, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **James P. SCHABARUM II, Jeffrey W. CAVIGNAC and Jase HAMILTON, all of San Diego, California, EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 23rd day of November, A.D. 2015.

ATTEST:

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND**



By: *Eric D. Barnes*
Secretary
Eric D. Barnes

Michael Bond
Vice President
Michael Bond

State of Maryland
County of Baltimore

On this 23rd day of November, A.D. 2015, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **MICHAEL BOND, Vice President**, and **ERIC D. BARNES, Secretary**, of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

Constance A. Dunn



Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2019

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this day of FEB 19 2016, 20 .



Gerald F. Haley

Gerald F. Haley, Vice President

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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

State of California }

County of San Diego }

On FEB 19 2016 before me, Claire Owens, Notary Public
(Here insert name and title of the officer)

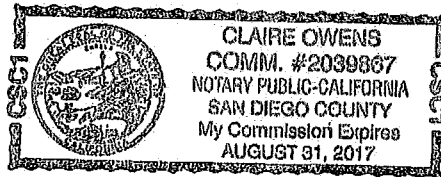
personally appeared Jase Hamilton
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) (s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in (his)/her/their authorized capacity(ies), and that by (his)/her/their signature(s) 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.

Claire Owens
Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
- Corporate Officer
- _____ (Title)
- Partner(s)
- Attorney-in-Fact
- Trustee(s)
- Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they- is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

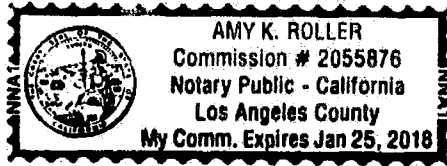
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Los Angeles)
On March 1, 2016 before me, Amy K. Roller, Notary Public,
Date Here Insert Name and Title of the Officer
personally appeared Ricardo Jimenez
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 Amy K. Roller
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

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

Description of Attached Document

Title or Type of Document: _____ Document Date: _____
Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

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

CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Reyes Construction, Inc.

Certified By Ricardo Jimenez Title Vice President
Name

Ricardo Jimenez Date 3/3/2016
Signature

USE ADDITIONAL FORMS AS NECESSARY

DEBARMENT AND SUSPENSION CERTIFICATION

TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29

The Bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

- Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicated, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

N/A

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

NOTE: Providing false information may result in criminal prosecution or administrative sanctions. The above certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Certification.

**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: <u>Reyes Construction, Inc.</u>	Contact Name: <u>Ricardo Jimenez</u>
Company Address: <u>1383 South Signal Dr.</u>	Contact Phone: <u>909-622-2259</u>
<u>Pomona, CA 91766</u>	Contact Email: <u>estimating@reyesconstruction.com</u>

CONTRACT INFORMATION

Contract Title: <u>Seismic Retrofit & Rehabilitation of Georgia Street Bridge</u>	Start Date:
Contract Number (if no number, state location):	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.

<u>Ricardo Jimenez</u>	<u>Ricardo Jimenez</u>	<u>3/3/2016</u>
Name/Title of Signatory	Signature	Date

FOR OFFICIAL CITY USE ONLY

Receipt Date:	EBO Analyst:	<input type="checkbox"/> Approved <input type="checkbox"/> Not Approved – Reason:
---------------	--------------	---

(Rev 02/15/2011)

NON-LOBBYING CERTIFICATION

(FOR FEDERAL-AID CONTRACTS)

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities", in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontractors, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

LOBBY PROHIBITION, CERTIFICATION AND DISCLOSURE

In acknowledgment that funds received under this agreement have been provided pursuant to a Federal grant, recipient hereby recognizes the prohibitions against lobbying the Federal government with any of these funds. Recipient agrees that it shall comply with the laws set forth at 31 U.S.C. § 1352 (1989) and 24 C.F.R. part 87, to wit:

A. Conditions on use of funds

Recipient shall not expend any funds received pursuant to this agreement to pay any person to influence an officer or employee of Federal agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with any of the following Covered Federal actions:

- (1) The awarding of any federal contract
- (2) The making of any Federal grant
- (3) The making of any Federal Loan
- (4) The entering into of any cooperative agreement
- (5) The extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

For purposes of defining the terms of this part of the agreement, the definitions set forth in 24 C.F.R. § 87.105 are hereby adopted and incorporated herein by reference.

B. Certification and Disclosure

Each recipient at every tier under this agreement shall file a certification regarding lobbying, and a Disclosure Form-LLL, where required by 24 C.F.R. § 87.110. The certification form and Disclosure Form-LLL are attached to this agreement.

C. Certifications must be filed:

- (1) By any person upon each submission that initiates agency consideration for an award of a Federal contract, grant, or cooperative agreement exceeding \$100,000, or a Federal loan or loan guarantee exceeding \$150,000.
- (2) Upon receipt by any person of a Federal contract, grant, or cooperative agreement exceeding \$100,000, or upon receipt of a Federal loan or loan guarantee exceeding \$150,000.
- (3) By any person who requests or receives from a person referred to in subsections 1 and 2 of this paragraph:
 - a. A subcontract exceeding \$100,000 at any tier under a Federal contract;
 - b. A subgrant, contract or subcontract exceeding \$100,000 at any tier under a Federal grant;
 - c. A contract or subcontract exceeding \$100,000 at any tier under a Federal loan exceeding \$150,000;
 - d. A contract or subcontract exceeding \$100,000 at any tier under a Federal cooperative agreement.

D. Disclosure Forms-LLL must be filed in every instance when a person applies for, requests, or receives Federal appropriations exceeding \$100,000 pursuant to a contract, subcontract, grant, subgrant, loan, or cooperative agreement when such person has paid or expects to pay any sum, in cash or in kind, to influence or attempt to influence any officer or employee of an agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress. Further, Disclosure Form-LLL must be filed by recipients at any tier at the end of each calendar quarter in which there occurs any event that requires disclosure or materially affects information submitted in prior disclosures. Such events include:

- (1) 1. An increase of \$25,000 in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action;
- (2) 2. A change in the person(s) influencing or attempting to influence a covered action;
- (3) 3. A change in the officer(s), employee(s), or member(s) contacted to influence a covered action.

All disclosure Forms-LLL, but not certifications, shall be forwarded from tier to tier until received by the principal recipient, which in turn will file them with the appropriate Federal agency.

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Use the SF-LLLA Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing there port in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.
(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the date(s) of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with Federal officials. Identify the Federal official(s) or employee(s) contacted or the officer(s), employee(s), or Member(s) of Congress that were contacted.
15. Check whether or not a SF-LLLA Continuation Sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

DISCLOSURE OF LOBBYING ACTIVITIES Approved by OMB
 Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
 (See reverse for public burden disclosure)

0348-0046

1. Type of Federal Action: <input type="checkbox"/> a. Contract <input type="checkbox"/> a. Grant <input type="checkbox"/> b. Cooperative agreement <input type="checkbox"/> c. Loan <input type="checkbox"/> d. Loan guarantee <input type="checkbox"/> e. Loan insurance	2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. Report Type: <input type="checkbox"/> a. initial finding <input type="checkbox"/> b. material change For Material Change Only year _____ quarter _____ date of last report _____
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known: N/A Congressional District, if known:		5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime: N/A Congressional District, if known:
6. Federal Department/Agency: N/A	7. Federal Program Name/Description: CFDA Number, if applicable: N/A	
8. Federal Action Number, if known:	9. Award Amount, if known: \$	
10. a. Name and Address of Lobbying Entity (if individual, last name, first name, M) N/A (attach Continuation Sheet(s) SF-LLLA, if necessary)		b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):
11. Amount of Payment (check all that apply) \$ N/A <input type="checkbox"/> actual <input type="checkbox"/> planned	13. Type of Payment (check all that apply) <input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferral <input type="checkbox"/> f. other: specify: N/A	
12. Form of Payment (check all that apply) <input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind: specify: nature _____ Value _____	14. Brief Description of Services Performed or to be Performed and Date(s) of Service, Including officer(s), employee(s), or Member(s), contacted, for Payment indicated in item 11: N/A (attach Continuation Sheet(s) SF-LLLA, if necessary)	
15. Continuation Sheet(s) SF-LLLA attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
16. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure may be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: <u>Ricardo Jimenez</u> Print Name: <u>Ricardo Jimenez</u> Title: <u>Vice President</u> Telephone No.: <u>904-622-2259</u> Date: <u>03/03/2016</u>	
Federal Use Only:		Authorized for Local Reproduction Standard Form LLL (Rev. 7-07)

DISCLOSURE OF LOBBYING ACTIVITIES Approved by
CONTINUATION SHEET

OMB0348-0046

Reporting Entity: _____ Page _____ of _____

Authorized for Local Reproduction
Standard Form - LLL-A

**CERTIFICATION WITH REGARD TO THE PERFORMANCE OF PREVIOUS
CONTRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY
CLAUSE AND THE FILING OF REQUIRED REPORTS**

The Bidder Reyes Construction, Inc.
proposed Subcontractor _____

, hereby certifies that he has X, has not _____, participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246, and that, where required, he has X, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Reyes Construction, Inc.
Company

By Ricardo Jimenez

Vice President
Title

Date: March 03, 2016

NOTE: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1), and must be submitted by bidders and proposed Subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause as set forth in 41 CFR 601.5 (Generally only contracts or subcontracts of \$10,000 or under are exempt).

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime Contractors and Subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 601.7(b)(1) prevents the award of contracts and subcontracts unless such Contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In accordance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

YES _____

NO X _____

If the answer is yes, explain the circumstances in the following space:

PUBLIC CONTRACT SECTION 10232 STATEMENT

In accordance with Public Contract Code Section 10232, the Contractor hereby states under penalty of perjury, that no more than one (1) final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two (2) year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In accordance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder, hereby declares under penalty of perjury under the laws of the State of California that the bidder has _____, has not X, been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

NOTE: THE BIDDER MUST PLACE A CHECK MARK AFTER "HAS" OR "HAS NOT"

IN ONE OF THE BLANK SPACES PROVIDED.

THE ABOVE STATEMENTS ARE PART OF THE PROPOSAL. SIGNING THIS PROPOSAL ON THE SIGNATURE PORTION THEREOF SHALL ALSO CONSTITUTE SIGNATURE OF THESE STATEMENTS.

BIDDERS ARE CAUTIONED THAT MAKING A FALSE CERTIFICATION MAY SUBJECT THE CERTIFIER TO CRIMINAL PROSECUTION.

By my signature on this Proposal I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire and statements of Public Contract Code Sections 10162, 10232 and 10285.1 are true and correct and that the bidder has complied with the requirements of Section 8103 of the Fair Employment and Housing Commission Regulations (Chapter 5, Title 2 of the California Administrative Code). By my signature on this Proposal I further certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Title 23 United States Code, Section 112, Non-Collusion Affidavit," and the Title 49 Code of Federal Regulations, Part 29, "Debarment and Suspension Certification," are true and correct.

Bid Results for Project Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue (K-16-1316-DBB-3-B)
 Issued on 02/12/2016
 Bid Due on March 17, 2016 2:00 PM (Pacific)
 Exported on 03/17/2016

VendorID	Company Name	Address	Address 2	City	State	ZipCode	Country	Contact	Phone	Fax	Email	Vendor Type
302424	Reyes Construction, Inc.	1383 S Signal Drive		Pomona		91766	United States	Ricardo Jimenez	909-622-2259	909-622-3053	estimating@reyesconstruction.com	PQUAL,CADIR

Respondee	Respondee Title	Respondee Phone	Respondee Email
Ricardo Jimenez	Vice President	909-622-2259	estimating@reyesconstruction.com

Bid Format	Submitted Date	Delivery Method	Status	Confirmation #	Ranking
Electronic	March 17, 2016 1:52:24 PM (Pacific)		Submitted	74318	0

Attachments		
File Title	File Name	File Type
Certificate of Pending Actions	Cert of Pending Actions.pdf	General Attachments
Equal Benefit Ordinance	Equal Benefits Ordinance.pdf	General Attachments
Debarment and Suspension Cert	Debarment and Suspension Cert.pdf	General Attachments
Certification with Regards to the Performance of Previous Contracts.pdf	Performance of Previous Contracts.pdf	General Attachments
Public Contract Code Section 10	Public Contract Code Section 10162.pdf	General Attachments
Non-Lobbying Certification	Non-Lobbying Certification.pdf	General Attachments
Bid Bond	Bid Bond.pdf	Bid Bond

Line Items							
Item Num	Section	Item Code	Description	Unit of Measure	Quantity	Unit Price	Line Total
1	Main Bid	541330	Surveying and Monitoring of Existing Non-highway Facilities	LS	1	\$80,000.00	\$80,000.00
2	Main Bid	237310	Mobilization	LS	1	\$260,000.00	\$260,000.00
3	Main Bid	237310	Construction Field Office	MONTH	12	\$4,000.00	\$48,000.00
4	Main Bid	237310	Progress Schedule (Critical Path Method)	LS	1	\$22,000.00	\$22,000.00
5	Main Bid	237310	Performance and Payment Bond	LS	1	\$40,000.00	\$40,000.00
6	Main Bid	237310	Time-Related Overhead	WDAY	240	\$4,000.00	\$960,000.00
7	Main Bid	237310	Construction Site Management	LS	1	\$12,000.00	\$12,000.00
8	Main Bid	237310	Structure Excavation (Bridge)	CY	110	\$53.00	\$5,830.00
9	Main Bid	237310	Structure Backfill (Bridge)	CY	110	\$47.00	\$5,170.00
10	Main Bid	237310	Bridge Removal (Portion)	CY	75	\$3,500.00	\$262,500.00
11	Main Bid	237310	Remove Shotcrete	SQYD	895	\$260.00	\$232,700.00
12	Main Bid	237310	Remove Arch Rib Concrete Cover (Hydrodemolition)	SQFT	1620	\$110.00	\$178,200.00
13	Main Bid	237310	Relocate Plaque and Eye Bolts	LS	1	\$3,360.00	\$3,360.00
14	Main Bid	237310	Remove Concrete Barrier	LF	1410	\$105.00	\$148,050.00
15	Main Bid	237310	Remove Retaining Wall	CY	76	\$450.00	\$34,200.00
16	Main Bid	237310	Structural Concrete, Bridge	CY	93	\$2,000.00	\$186,000.00
17	Main Bid	237310	Arch Rib Concrete Cover	SQFT	1645	\$53.00	\$87,185.00
18	Main Bid	237310	Structural Concrete, Retaining Wall	CY	760	\$1,016.00	\$772,160.00
19	Main Bid	237310	Structural Shotcrete	CY	17	\$5,000.00	\$85,000.00
20	Main Bid	237310	Concrete Barrier	LF	770	\$215.00	\$165,550.00
21	Main Bid	237310	Concrete Slab Barrier	LF	640	\$330.00	\$211,200.00
22	Main Bid	237310	Headed Bar Reinforcement	EACH	144	\$35.00	\$5,040.00
23	Main Bid	237310	Drill and Bond Dowels	LF	3060	\$30.00	\$91,800.00
24	Main Bid	237310	Bar Reinforcing Steel (Bridge)	LB	42900	\$3.00	\$128,700.00
25	Main Bid	237310	Bar Reinforcing Steel (Arch Rib)	LB	4000	\$12.00	\$48,000.00
26	Main Bid	237310	Bar Reinforcing Steel (Retaining Wall)	LB	83000	\$2.00	\$166,000.00
27	Main Bid	237310	Soil Nail	LF	35325	\$52.00	\$1,836,900.00
28	Main Bid	237310	Miscellaneous Metal (Bridge)	LB	16000	\$3.00	\$48,000.00
29	Main Bid	237310	Ground Anchor	EACH	78	\$7,650.00	\$596,700.00

30	Main Bid	237310	Temporary Supports	LS	1	\$316,730.00	\$316,730.00	
31	Main Bid	237310	2" Slotted Drainage Pipe	LF	3550	\$9.00	\$31,950.00	
32	Main Bid	237310	Drilling for 2" Drainage Pipes	LF	3550	\$45.00	\$159,750.00	
33	Main Bid	237310	3" Unslotted Drainage Pipe	LF	600	\$18.00	\$10,800.00	
34	Main Bid	237310	Traffic Control	LS	1	\$227,000.00	\$227,000.00	
35	Main Bid	237310	Utility Coordination	LS	1	\$5,000.00	\$5,000.00	
36	Main Bid	238910	Clearing & Grubbing & Pavement Demolition	LS	1	\$80,000.00	\$80,000.00	
37	Main Bid	237310	Cold Mill AC Pavement (1 1/2")	SQFT	9650	\$0.50	\$4,825.00	
38	Main Bid	237310	Asphalt Concrete Overlay (1 1/2")	SQFT	9650	\$1.50	\$14,475.00	
39	Main Bid	237310	Paving per Schedule "J" for Georgia Street	SQFT	1150	\$8.00	\$9,200.00	
40	Main Bid	237310	Paving per Schedule "J" for University Avenue	SQFT	26805	\$11.00	\$294,855.00	
41	Main Bid	237310	PCC Sidewalk	SQFT	9600	\$6.00	\$57,600.00	
42	Main Bid	237310	PCC Buffer	SQFT	1850	\$10.00	\$18,500.00	
43	Main Bid	237310	Pedestrian Ramp Type A	EA	2	\$3,500.00	\$7,000.00	
44	Main Bid	237310	Pedestrian Ramp Type D	EA	1	\$3,500.00	\$3,500.00	
45	Main Bid	237110	Catch Basin Type G-1	EA	4	\$3,400.00	\$13,600.00	
46	Main Bid	237110	Curb Outlet (D-25)	EA	4	\$3,900.00	\$15,600.00	
47	Main Bid	237310	Curb & Gutter (6" Type G)	LF	1400	\$30.00	\$42,000.00	
48	Main Bid	237110	6 -inch PVC Storm Drain	LF	100	\$83.00	\$8,300.00	
49	Main Bid	238210	Street Lighting Electrical System	LS	1	\$130,000.00	\$130,000.00	
50	Main Bid	237310	Signing, Striping and Pavement Markings	LS	1	\$7,360.00	\$7,360.00	
51	Main Bid	237310	Thermoplastic Striping, Crosswalk, Arrows and Marking	LS	1	\$3,140.00	\$3,140.00	
52	Main Bid	237310	Water Pollution Control Program Development (WPCP)	LS	1	\$4,000.00	\$4,000.00	
53	Main Bid	237310	Water Pollution Control Program Implementation (WPCP)	LS	1	\$63,000.00	\$63,000.00	
							Subtotal	\$8,248,430.00
							Total	\$8,248,430.00

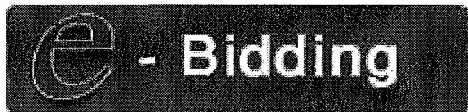
Subcontractors										
Name	Description	License Num	Amount	Type	Address	Address 2	City	State	ZipCode	Country
Cindy Trump Inc	Cold Mill	754500	\$ 4,150.00							
E M P S D Inc.	Anti-Graffiti	943059	\$ 52,387.00							
Perry Electric	Electrical	747931	\$ 108,000.00							
Triumph GeoSynthetics Inc	Geocomposite	0	\$ 3,496.00							
DB Digital Documentation, Inc.	Video & Crack Monitoring	0	\$ 63,230.00							
Rupert Constr. Supply	Soil Nails	0	\$ 154,000.00							
Penhall Company	Drill and Bond Dowels	568673	\$ 334,000.00							
LMS Transport	Trucking	0	\$ 67,200.00							
Soldata Inc	Displacement Monitoring	0	\$ 49,890.00							
G&F Concrete Cutting	Remove Bridge	590310	\$ 577,482.00							
Hydropressure Cleaning, Inc.	Hydro Demolition	909458	\$ 100,796.00							
Drill Tech Drilling & Shoring, Inc	Soil Nails	745354	\$ 1,929,838.00							
Gerdau	Reinforcing Steel	974202	\$ 412,950.00							
Deco Pave, Inc.	Asphalt Paving	761655	\$ 290,440.00							
Payco Specialties Inc.	Signage & Striping	298637	\$ 50,335.00							
Maneri Traffic Control	Traffic Control (partial)	892008	\$ 87,375.00							
			\$ 4,285,569.00							

Prime Self Performance
48.04

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 "A"



FOR

Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue


BID NO.:	K-16-1316-DBB-3-B
SAP NO. (WBS/IO/CC).:	S-00863
CLIENT DEPARTMENT:	2116
COUNCIL DISTRICT:	3
PROJECT TYPE:	IB
FEDERAL AID PROJECT NO.:	BRLO 5004 (009)

BID DUE DATE:

**2:00 PM
MARCH 3, 2016
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101**

ENGINEER OF WORK


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


1) NATHAN JOHNSON, P.E.
PRINCIPAL ENGINEER
KLEINFELDER / SIMON WONG

2/24/16
Date

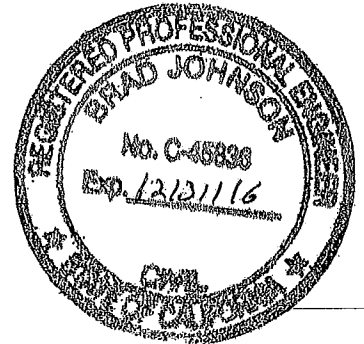
Seal:




2) For City Engineer
BRAD JOHNSON, P.E.

2/25/16
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. BIDDER'S QUESTIONS

Questions pertaining to Scope or Specifications

- Q1. In regards to Bid Item 28, Miscellaneous Metal (Bridge). We are unable to locate the location for these miscellaneous metals. Please provide locations.
- A1. This bid item covers the weight of the followings:
- a. Bearing plates of abutment ground anchors and their headed studs
 - b. Bearing plates for temporary longitudinal bracing struts
- Q2. In regards to Bid Item 15, Remove Retaining Wall, please confirm the bid quantity of 76 cubic yards.
- A2. Correct. The quantity of this bid item is 76 cubic yards.
- Q3. Has the city determined a location for the office trailer that will be provide by the prime contractor?
- A3. The prime contractor is responsible for determining a location for an office trailer at their expense.
- Q4. Does the bid only require "Non-Lobbying Certification" form (page 405)? Or are pages 406-409 regarding lobbying disclosures required as well?
- A4. All Non-Lobbying disclosures need to be completed.
- Q5. Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form: a.) I cannot locate this form; is it in the specs or do I need to go elsewhere to download it?; b.) It is "Form H" on the E-Bid Checklist provided in the specs.
- A5. The form is not required and has been deleted via this addendum.

C. CLARIFICATIONS

1. The following Bid items have been designated as Type "F" on PlanetBids in accordance with the Attachment E SSP, section 9-3, "Payment".
- Structure Excavation (Bridge)
- Structure Backfill (Bridge)

Bridge Removal (Portion)
Remove Arch Rib Concrete Cover (Hydrodemolition)
Remove Concrete Barrier
Remove Retaining Wall
Structural Concrete, Bridge
Arch Rib Concrete Cover
Structural Concrete, Retaining Wall
Structural Shotcrete
Concrete Barrier
Concrete Slab Barrier
Headed Bar Reinforcement
Drill and Bond Dowels
Bar Reinforcing Steel (Bridge)
Bar Reinforcing Steel (Arch Rib)
Bar Reinforcing Steel (Retaining Wall)
Miscellaneous Metal (Bridge)

D. ATTACHMENTS

1. To Attachment D, Federal Highway (FHWA) Funding Agency Provisions, pages 37 through 66, Section 10, Wage Rates, **DELETE** in their entirety and **SUBSTITUTE** with pages 6 through 32 of this Addendum.
2. To Attachment D, Federal Highway (FHWA) Funding Agency Provisions Forms, page 68, Section 13, Forms, Subsection 13.1., Sub-item 13.1.1., E-Bidding Forms, **DELETE** in its entirety and **SUBSTITUTE** with the following:

13.1.1. E-BIDDING FORMS - The following forms shall be completed and submitted within **4 Working Days of the Bid opening**. Failure to include any of the forms shall cause the Bid to be deemed **non-responsive**.

1. Exhibit 15 G - Local Agency Bidder DBE Commitment (Construction Contracts)
2. Exhibit 15-H DBE Information-Good Faith Efforts
3. Form AA61 - List of Work Made Available

3. To Attachment D, FHWA Funding Agency Provisions Forms, page 69, **ADD** "AA61 List of Work Made Available" form, page 33 of this Addendum.
4. To Electronically Submitted Forms, page 398, Item H. Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form, **DELETE** in its entirety.

James Nagelvoort, Director
Public Works Department

Dated: *February 25, 2016*
San Diego, California

JN/RWB/egz

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

General Decision Number: CA160001 02/19/2016 CA1

Superseded General Decision Number: CA20150001

State: California

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

County: San Diego County in California.

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/08/2016
1	02/12/2016
2	02/19/2016

ASBE0005-002 07/01/2015

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 36.74	19.49
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 25.38	16.81

ASBE0005-004 06/29/2015

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 18.06	10.57

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER.....	\$ 41.17	28.27

BRCA0004-008 11/01/2015

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 34.44	17.21

BRCA0018-004 06/01/2014

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

BRCA0018-010 09/01/2013

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 26.59	10.34

TERRAZZO WORKER/SETTER.....\$ 33.63 11.13

CARP0409-002 07/01/2008

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

Amounts in "Rates" column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

CARP0547-001 07/01/2009

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 37.28	10.58
(2) Commercial Building....	\$ 32.30	10.58
(3) Heavy & Highway.....	\$ 37.15	10.58
(4) Residential Carpenter..	\$ 25.84	10.58
(5) Residential Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 37.65	10.58
PILEDRIVERMAN.....	\$ 37.28	10.58

CARP0547-002 07/01/2009

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories		
Drywall Installer/Lather...\$	21.00	8.58
Drywall Stocker/Scraper...\$	11.00	6.67
(2) All other work		
Drywall Installer/Lather...\$	27.35	9.58
Drywall Stocker/Scraper...\$	11.00	6.67

ELEC0569-001 08/31/2015

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 46.88	13.54
Electrician.....	\$ 46.13	13.51

Electricians: (All Other
Work, Including 4 Stories
Residential)

Cable Splicer.....	\$ 41.75	13.38
Electrician.....	\$ 41.00	13.36

ELEC0569-005 06/01/2015

	Rates	Fringes
Sound & Communications		
Sound Technician.....	\$ 29.55	11.92

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

ELEC0569-006 10/05/2015

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

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 29.50	8.31
Utility Technician #2.....	\$ 24.65	8.16

STREET LIGHT & TRAFFIC SIGNAL WORK:

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

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

ELEC0569-008 08/31/2015

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 30.75	7.54

ELEC1245-001 06/01/2015

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 52.85	15.53
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 42.21	14.32
(3) Groundman.....	\$ 32.28	14.03
(4) Powderman.....	\$ 47.19	14.60

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

ELEV0018-001 01/01/2015

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 49.90	28.38

FOOTNOTE:

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

ENGI0012-003 07/06/2015

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1.....	\$ 39.95	23.35
GROUP 2.....	\$ 40.73	23.35
GROUP 3.....	\$ 41.02	23.35
GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 41.86	23.35
GROUP 6.....	\$ 41.83	23.35
GROUP 8.....	\$ 42.84	23.35
GROUP 9.....	\$ 42.19	23.35
GROUP 10.....	\$ 42.96	23.35
GROUP 11.....	\$ 42.31	23.35
GROUP 12.....	\$ 43.13	23.35
GROUP 13.....	\$ 43.23	23.35
GROUP 14.....	\$ 43.26	23.35
GROUP 15.....	\$ 43.34	23.35
GROUP 16.....	\$ 43.46	23.35
GROUP 17.....	\$ 43.63	23.35

GROUP 18.....	\$ 43.73	23.35
GROUP 19.....	\$ 43.84	23.35
GROUP 20.....	\$ 43.96	23.35
GROUP 21.....	\$ 44.13	23.35
GROUP 22.....	\$ 44.23	23.35
GROUP 23.....	\$ 44.34	23.35
GROUP 24.....	\$ 44.46	23.35
GROUP 25.....	\$ 44.63	23.35

OPERATOR: Power Equipment
(Cranes, Piledriving &
Hoisting)

GROUP 1.....	\$ 41.30	23.35
GROUP 2.....	\$ 42.08	23.35
GROUP 3.....	\$ 42.37	23.35
GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 42.73	23.35
GROUP 6.....	\$ 42.84	23.35
GROUP 7.....	\$ 42.96	23.35
GROUP 8.....	\$ 43.13	23.35
GROUP 9.....	\$ 43.30	23.35
GROUP 10.....	\$ 44.30	23.35
GROUP 11.....	\$ 45.30	23.35
GROUP 12.....	\$ 46.30	23.35
GROUP 13.....	\$ 47.30	23.35

OPERATOR: Power Equipment
(Tunnel Work)

GROUP 1.....	\$ 41.80	23.35
GROUP 2.....	\$ 42.58	23.35
GROUP 3.....	\$ 42.87	23.35
GROUP 4.....	\$ 43.01	23.35
GROUP 5.....	\$ 43.23	23.35
GROUP 6.....	\$ 43.34	23.35
GROUP 7.....	\$ 43.46	23.35

PREMIUM PAY:

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

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

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

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

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

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

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

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

driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (guniting work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity); Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer,

dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

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

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

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

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

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

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

GROUP 17: Rubber-tired earth-moving equipment operator,

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

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

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

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

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

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

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

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

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

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

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

GROUP 2: Truck crane oiler

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

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

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

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

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

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

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

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

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

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

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

TUNNEL CLASSIFICATIONS

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

GROUP 2: Power-driven jumbo form setter operator

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

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

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

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

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

That area within the following Boundary: Begin in San

Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SBM to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

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

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34. T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W,

SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

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

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

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2015

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 49.50	23.60
(2) Dredge dozer.....	\$ 43.53	23.60
(3) Deckmate.....	\$ 43.42	23.60

(4) Winch operator (stern winch on dredge).....	\$ 42.87	23.60
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 42.33	23.60
(6) Barge Mate.....	\$ 42.94	23.60

IRON0377-002 07/01/2015

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 27.08	20.21
Ornamental, Reinforcing and Structural.....	\$ 33.50	28.85

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

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

\$2.00 additional per hour at the following locations:

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

LABO0089-001 07/01/2014

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 27.57	16.19
Group 2.....	\$ 28.25	16.19
Group 3.....	\$ 28.96	16.19
Group 4.....	\$ 29.76	16.19
Group 5.....	\$ 31.69	16.19
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 25.47	14.52
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).....	\$ 24.18	14.52

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

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

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

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

any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled.

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

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

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 27.98	13.39

LABO0089-004 07/01/2015

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 27.57	16.19
Group 2.....	\$ 28.25	16.19
Group 3.....	\$ 28.96	16.19
Group 4.....	\$ 29.76	16.19
Group 5.....	\$ 31.69	16.19

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape

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

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

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer

Backup Man (Coating, grouting, making of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

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

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic tracking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 01/01/2014

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 28.00	15.25

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

LABO1184-001 08/01/2015

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...	\$ 32.60	12.16
(2) Vehicle Operator/Hauler.	\$ 32.77	12.16
(3) Horizontal Directional Drill Operator.....	\$ 34.62	12.16

(4) Electronic Tracking		
Locator.....	\$ 36.62	12.16
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 33.76	15.04
GROUP 2.....	\$ 35.06	15.04
GROUP 3.....	\$ 37.07	15.04
GROUP 4.....	\$ 38.81	15.04

LABORERS - STRIPING CLASSIFICATIONS

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

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

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

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

LAB01414-003 08/05/2015

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER....	\$ 30.16	17.11
PLASTER TENDER.....	\$ 32.71	17.11

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

Work at Military Bases - \$3.00 additional per hour:
 Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine

Corps Logistics Supply Base, Marine Corps Pickle Meadows,
 Mountain Warfare Training Center, Naval Air
 Facility-Seeley, North Island Naval Air Station, Vandenberg
 AFB.

 PAIN0036-001 07/01/2015

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 27.29	12.83
(2) All Other Work.....	\$ 30.72	12.83

REPAINT of any previously painted structure. Exceptions:
 work involving the aerospace industry, breweries,
 commercial recreational facilities, hotels which operate
 commercial establishments as part of hotel service, and
 sports facilities.

 * PAIN0036-010 10/01/2015

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 27.84	15.20
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 21.00	13.91

 PAIN0036-012 10/01/2015

	Rates	Fringes
GLAZIER.....	\$ 40.80	17.66

 PAIN0036-019 01/01/2016

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 26.77	13.53

 PLAS0200-005 08/06/2015

	Rates	Fringes
PLASTERER.....	\$ 38.44	13.77

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS
 BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional

per hour.

PLAS0500-001 07/01/2015

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.47	17.32
GROUP 2.....	\$ 28.12	17.32
GROUP 3.....	\$ 30.75	17.27

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

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 07/01/2015

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton.....	\$ 50.46	20.71
Plumber and Pipefitter All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 45.96	20.71
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 44.51	19.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 35.16	18.06

PLUM0016-011 07/01/2015

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....	\$ 37.17	16.63

PLUM0345-001 07/01/2014		

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

ROOF0045-001 07/01/2012		

	Rates	Fringes
ROOFER.....	\$ 25.08	7.28

SFCA0669-001 07/01/2013		

	Rates	Fringes
SPRINKLER FITTER.....	\$ 34.86	18.66

SHEE0206-001 01/01/2012		

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

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

	Rates	Fringes

TEAM0036-001 07/01/2012		
Truck drivers:		
GROUP 1.....	\$ 15.40	20.50
GROUP 2.....	\$ 24.99	20.50

GROUP 3.....	\$ 25.19	20.50
GROUP 4.....	\$ 25.39	20.50
GROUP 5.....	\$ 25.59	20.50
GROUP 6.....	\$ 26.09	20.50
GROUP 7.....	\$ 27.59	20.50

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

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

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

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

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

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

GROUP 7: Repairman

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

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

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

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate

that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

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

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

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

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

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END OF GENERAL DECISION

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

Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue


BID NO.:	K-16-1316-DBB-3-B
SAP NO. (WBS/IO/CC):	S-00863
CLIENT DEPARTMENT:	2116
COUNCIL DISTRICT:	3
PROJECT TYPE:	IB
FEDERAL AID PROJECT NO.:	BRLO 5004 (009)

BID DUE DATE:

**2:00 PM
MARCH 17, 2016
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101**

ENGINEER OF WORK

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


1) NATHAN JOHNSON, P.E.
PRINCIPAL ENGINEER
KLEINFELDER / SIMON WONG

3/1/16
Date

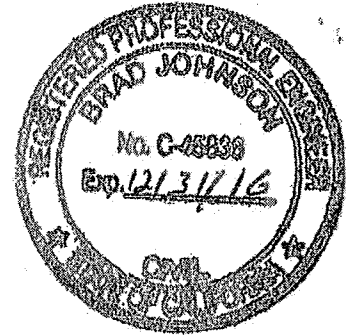
Seal:




2) For City Engineer
BRAD JOHNSON, P.E.

3/1/16
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.

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

B. ATTACHMENTS

1. To Attachment D, FHWA Funding Agency Provisions Forms, pages 37 through 66, Section 10, Wage Rates, **DELETE** in its entirety and **SUBSTITUTE** with pages 4 through 35 of this Addendum.
2. Attachment D, FHWA Funding Agency Provisions Forms, Division 1, General Provisions, page 108, "Add to section 5-1.20A:", **DELETE** in its entirety and **SUBSTITUTE** with the following:

Add to section 5-1.20A:

During the progress of the work under this Contract, work under the following contracts may be in progress at or near the job site of this Contract:

Coincident or Adjacent Contracts

Contract no.	County--Route-- Post Mile	Location	Type of work
K-15-5716-DBB-3	Extending from approximately Stephens Street at Lewis Street to Polk Avenue at Idaho Street	Along University Avenue (among others)	Replacement of existing water line
N/A	University Avenue frontage road at Crestwood Place	Intersection of Crestwood Place and University Avenue frontage road.	Replacement of 2 curb ramps crossing Crestwood Place parallel to the University Avenue frontage road

James Nagelvoort, Director
Public Works Department

Dated: *March 2, 2016*
San Diego, California

JN/RWB/egz

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

General Decision Number: CA160001 02/26/2016 CA1

Superseded General Decision Number: CA20150001

State: California

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

County: San Diego County in California.

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/08/2016
1	02/12/2016
2	02/19/2016
3	02/26/2016

ASBE0005-002 07/01/2015

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 36.74	19.49
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 25.38	16.81
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ASBE0005-004 06/29/2015

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 18.06	10.57
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BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER.....	\$ 41.17	28.27
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BRCA0004-008 11/01/2015

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 34.44	17.21
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BRCA0018-004 06/01/2014

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

BRCA0018-010 09/01/2013

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 26.59	10.34
TERRAZZO WORKER/SETTER.....	\$ 33.63	11.13

CARP0409-002 07/01/2008

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

Amounts in "Rates" column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

CARP0547-001 07/01/2009

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 37.28	10.58
(2) Commercial Building....	\$ 32.30	10.58
(3) Heavy & Highway.....	\$ 37.15	10.58
(4) Residential Carpenter..	\$ 25.84	10.58
(5) Residential Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 37.65	10.58
PILEDRIVERMAN.....	\$ 37.28	10.58

CARP0547-002 07/01/2009

	Rates	Fringes
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Drywall

(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories

Drywall Installer/Lather....	\$ 21.00	8.58
Drywall Stocker/Scrapper....	\$ 11.00	6.67

(2) All other work

Drywall Installer/Lather....	\$ 27.35	9.58
Drywall Stocker/Scrapper....	\$ 11.00	6.67

ELEC0569-001 08/31/2015

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 46.88	13.54
Electrician.....	\$ 46.13	13.51
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer.....	\$ 41.75	13.38
Electrician.....	\$ 41.00	13.36

ELEC0569-005 06/01/2015

	Rates	Fringes
Sound & Communications		
Sound Technician.....	\$ 29.55	11.92
SOUND TECHNICIAN: Terminating, operating and performing final check-out		

ELEC0569-006 10/05/2015

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

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 29.50	8.31
Utility Technician #2.....	\$ 24.65	8.16

STREET LIGHT & TRAFFIC SIGNAL WORK:

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

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

 ELEC0569-008 08/31/2015

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 30.75	7.54

ELEC1245-001 06/01/2015

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 52.85	15.53
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 42.21	14.32
(3) Groundman.....	\$ 32.28	14.03
(4) Powderman.....	\$ 47.19	14.60

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

ELEV0018-001 01/01/2015

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 49.90	28.38

FOOTNOTE:

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

ENGI0012-003 07/06/2015

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1.....	\$ 39.95	23.35
GROUP 2.....	\$ 40.73	23.35
GROUP 3.....	\$ 41.02	23.35
GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 41.86	23.35
GROUP 6.....	\$ 41.83	23.35
GROUP 8.....	\$ 42.84	23.35
GROUP 9.....	\$ 42.19	23.35
GROUP 10.....	\$ 42.96	23.35
GROUP 11.....	\$ 42.31	23.35
GROUP 12.....	\$ 43.13	23.35
GROUP 13.....	\$ 43.23	23.35
GROUP 14.....	\$ 43.26	23.35
GROUP 15.....	\$ 43.34	23.35
GROUP 16.....	\$ 43.46	23.35
GROUP 17.....	\$ 43.63	23.35
GROUP 18.....	\$ 43.73	23.35
GROUP 19.....	\$ 43.84	23.35
GROUP 20.....	\$ 43.96	23.35
GROUP 21.....	\$ 44.13	23.35
GROUP 22.....	\$ 44.23	23.35
GROUP 23.....	\$ 44.34	23.35
GROUP 24.....	\$ 44.46	23.35
GROUP 25.....	\$ 44.63	23.35

OPERATOR: Power Equipment

(Cranes, Piledriving & Hoisting)

GROUP 1.....	\$ 41.30	23.35
GROUP 2.....	\$ 42.08	23.35
GROUP 3.....	\$ 42.37	23.35
GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 42.73	23.35
GROUP 6.....	\$ 42.84	23.35
GROUP 7.....	\$ 42.96	23.35
GROUP 8.....	\$ 43.13	23.35
GROUP 9.....	\$ 43.30	23.35
GROUP 10.....	\$ 44.30	23.35
GROUP 11.....	\$ 45.30	23.35
GROUP 12.....	\$ 46.30	23.35
GROUP 13.....	\$ 47.30	23.35

OPERATOR: Power Equipment (Tunnel Work)

GROUP 1.....	\$ 41.80	23.35
GROUP 2.....	\$ 42.58	23.35
GROUP 3.....	\$ 42.87	23.35
GROUP 4.....	\$ 43.01	23.35
GROUP 5.....	\$ 43.23	23.35
GROUP 6.....	\$ 43.34	23.35
GROUP 7.....	\$ 43.46	23.35

PREMIUM PAY:

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

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

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

operator; Pump operator; Signalman; Switchman

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

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

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

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

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or

similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter (concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (guniting work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-

propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

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

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

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

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

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

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

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

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

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

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

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

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

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

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

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

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

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

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

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

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

GROUP 2: Truck crane oiler

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

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

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

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

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

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

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

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to

and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

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

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

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

TUNNEL CLASSIFICATIONS

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

GROUP 2: Power-driven jumbo form setter operator

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

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

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

drill combination operator; Tugger hoist operator (2 drum);
Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

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

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state

line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

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

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

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

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of

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

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2015

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 49.50	23.60
(2) Dredge dozer.....	\$ 43.53	23.60
(3) Deckmate.....	\$ 43.42	23.60
(4) Winch operator (stern winch on dredge).....	\$ 42.87	23.60
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 42.33	23.60
(6) Barge Mate.....	\$ 42.94	23.60

 * IRON0377-002 01/01/2016

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 27.58	20.64
Ornamental, Reinforcing and Structural.....	\$ 34.00	29.20

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

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

\$2.00 additional per hour at the following locations:

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

LABO0089-001 07/01/2014

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 27.57	16.19
Group 2.....	\$ 28.25	16.19
Group 3.....	\$ 28.96	16.19
Group 4.....	\$ 29.76	16.19
Group 5.....	\$ 31.69	16.19
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 25.47	14.52
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).	\$ 24.18	14.52

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominiums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and

public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

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

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettlemen, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not

separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and including rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

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

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

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 27.98	13.39

LABO0089-004 07/01/2015

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 27.57	16.19
Group 2.....	\$ 28.25	16.19
Group 3.....	\$ 28.96	16.19
Group 4.....	\$ 29.76	16.19
Group 5.....	\$ 31.69	16.19

LABORER CLASSIFICATIONS

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

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing);

Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

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

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

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding

jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 01/01/2014

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 28.00	15.25

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

LABO1184-001 08/01/2015

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer....	\$ 32.60	12.16
(2) Vehicle Operator/Hauler..	\$ 32.77	12.16
(3) Horizontal Directional Drill Operator.....	\$ 34.62	12.16
(4) Electronic Tracking Locator.....	\$ 36.62	12.16
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 33.76	15.04
GROUP 2.....	\$ 35.06	15.04
GROUP 3.....	\$ 37.07	15.04
GROUP 4.....	\$ 38.81	15.04

LABORERS - STRIPING CLASSIFICATIONS

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

operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

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

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

LABO1414-003 08/05/2015

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER....\$	30.16	17.11
PLASTER TENDER.....\$	32.71	17.11

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

Work at Military Bases - \$3.00 additional per hour:

Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2015

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 27.29	12.83
(2) All Other Work.....	\$ 30.72	12.83

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 10/01/2015

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 27.84	15.20
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 21.00	13.91

PAIN0036-012 10/01/2015

	Rates	Fringes
GLAZIER.....	\$ 40.80	17.66

PAIN0036-019 01/01/2016

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 26.77	13.53

PLAS0200-005 08/06/2015

	Rates	Fringes
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PLASTERER.....\$ 38.44 13.77

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

PLAS0500-001 07/01/2015

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.47	17.32
GROUP 2.....	\$ 28.12	17.32
GROUP 3.....	\$ 30.75	17.27

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

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 07/01/2015

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton.....	\$ 50.46	20.71
Plumber and Pipefitter All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel		

work.....	\$ 45.96	20.71
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 44.51	19.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 35.16	18.06

PLUM0016-011 07/01/2015

	Rates	Fringes
PLUMBER/PIPEFITTER Residential.....	\$ 37.17	16.63

PLUM0345-001 07/01/2014

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

ROOF0045-001 07/01/2012

	Rates	Fringes
ROOFER.....	\$ 25.08	7.28

SFCA0669-001 07/01/2013

	Rates	Fringes
SPRINKLER FITTER.....	\$ 34.86	18.66

SHEE0206-001 01/01/2012

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

SHEET METAL TECHNICIAN - SCOPE:

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

 TEAM0036-001 07/01/2012

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

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

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

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

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

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

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

GROUP 7: Repairman

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

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

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

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example:

PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of

each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

The request should be accompanied by a full statement of the interested party's position and by any information (wage

payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

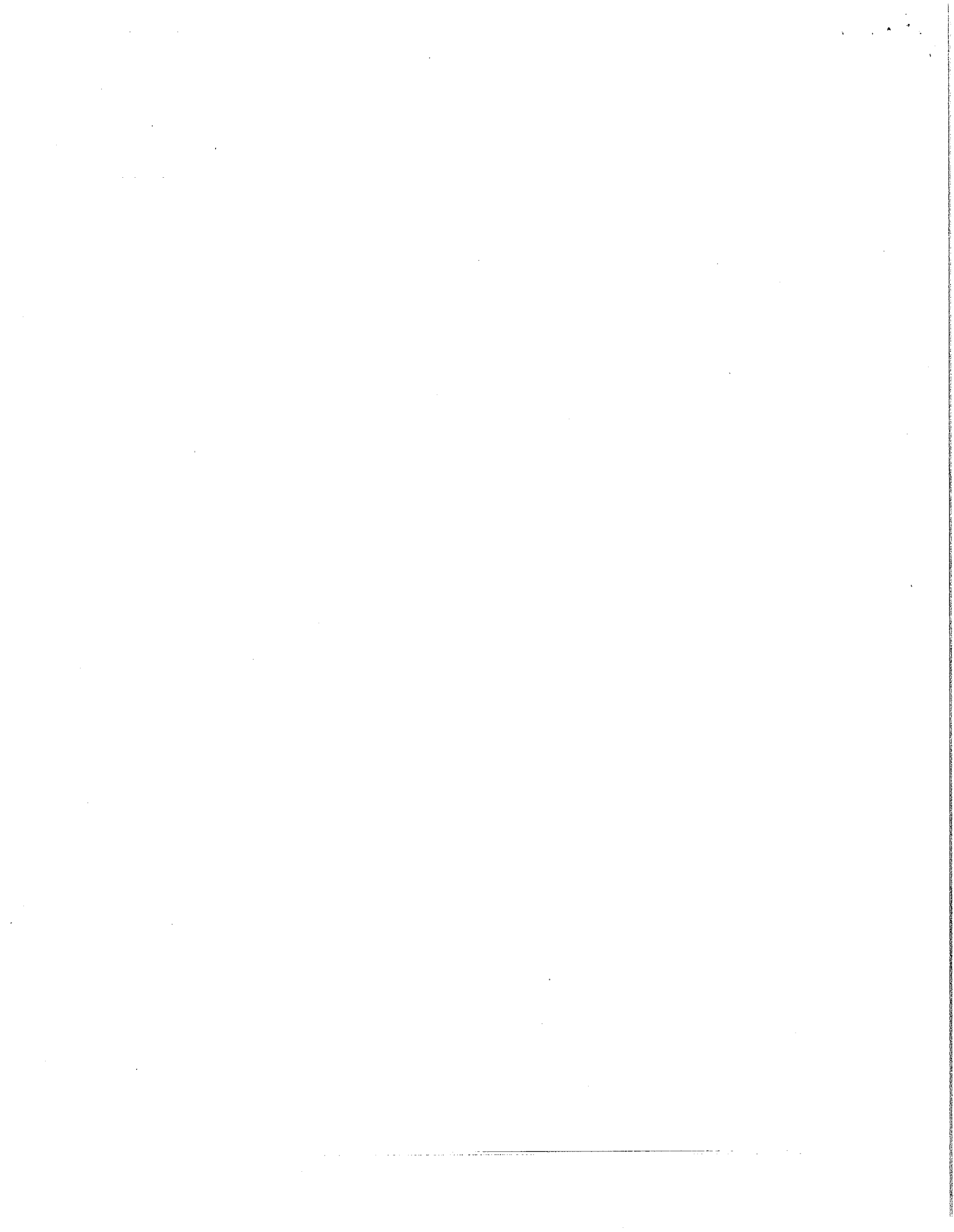
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

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

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

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END OF GENERAL DECISION



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"

 **e - Bidding** FOR



Seismic Retrofit and Rehabilitation of Georgia Street Bridge Over University Avenue

BID NO.: K-16-1316-DBB-3-B
SAP NO. (WBS/IO/CC): S-00863
CLIENT DEPARTMENT: 2116
COUNCIL DISTRICT: 3
PROJECT TYPE: IB
FEDERAL AID PROJECT NO.: BRLO 5004 (009)

BID DUE DATE:

2:00 PM
MARCH 17, 2016
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

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

B. BIDDER'S QUESTIONS

Questions pertaining to Scope or Specifications

Q1. I have another question that was brought to our attention regarding the new barrier, the plans indicate that the openings (similar to window) will be 6" wide, this seems contrary to standard Building Code requirements that dictate any opening in a guardrail or handrail or clear opening in a window must meet these requirements:

“design shall not permit openings that allow passage of a 4-inch-diameter (102 mm) sphere where such openings are located within 24" of finished floor elevation”

Please confirm if this requirement is applicable to this barrier or not.

A1. Construct the barriers as designed, they are in compliance with the Caltrans Bridge Design Standards.

C. ADDENDUM

1. To Addendum B, Section B, Attachments, Item 1, pages 4 through 35, **DELETE** in their entirety and **SUBSTITUTE** with pages 3 through 28 of this Addendum

James Nagelvoort, Director
Public Works Department

Dated: *March 9, 2016*
San Diego, California

JN/RWB/egz

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

General Decision Number: CA160001 03/04/2016 CA1

Superseded General Decision Number: CA20150001

State: California

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

County: San Diego County in California.

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/08/2016
1	02/12/2016
2	02/19/2016
3	02/26/2016
4	03/04/2016

ASBE0005-002 07/01/2015

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 36.74	19.49
Fire Stop Technician (Application of Firestopping Materials for wall openings)		

and penetrations in walls,
 floors, ceilings and curtain
 walls).....\$ 25.38 16.81

ASBE0005-004 06/29/2015

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....\$ 18.06	\$ 18.06	10.57

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER.....\$ 41.17	\$ 41.17	28.27

BRCA0004-008 11/01/2015

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....\$ 34.44	\$ 34.44	17.21

BRCA0018-004 06/01/2014

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

BRCA0018-010 09/01/2013

	Rates	Fringes
TERRAZZO FINISHER.....\$ 26.59	\$ 26.59	10.34
TERRAZZO WORKER/SETTER.....\$ 33.63	\$ 33.63	11.13

CARP0409-002 07/01/2008

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

Amounts in "Rates" column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

CARP0547-001 07/01/2009

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 37.28	10.58
(2) Commercial Building....	\$ 32.30	10.58
(3) Heavy & Highway.....	\$ 37.15	10.58
(4) Residential Carpenter..	\$ 25.84	10.58
(5) Residential		
Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 37.65	10.58
PILEDRIVERMAN.....	\$ 37.28	10.58

CARP0547-002 07/01/2009

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

ELEC0569-001 08/31/2015

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 46.88	13.54
Electrician.....	\$ 46.13	13.51
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer.....	\$ 41.75	13.38
Electrician.....	\$ 41.00	13.36

ELEC0569-005 06/01/2015

	Rates	Fringes
Sound & Communications		
Sound Technician.....	\$ 29.55	11.92

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

ELEC0569-006 10/05/2015

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

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 29.50	8.31
Utility Technician #2.....	\$ 24.65	8.16

STREET LIGHT & TRAFFIC SIGNAL WORK:

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

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

ELEC0569-008 08/31/2015

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 30.75	7.54

ELEC1245-001 06/01/2015

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 52.85	15.53
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 42.21	14.32
(3) Groundman.....	\$ 32.28	14.03
(4) Powderman.....	\$ 47.19	14.60

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

 ELEV0018-001 01/01/2015

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 49.90	28.38

FOOTNOTE:

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

 ENGI0012-003 07/06/2015

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1.....	\$ 39.95	23.35
GROUP 2.....	\$ 40.73	23.35
GROUP 3.....	\$ 41.02	23.35
GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 41.86	23.35
GROUP 6.....	\$ 41.83	23.35
GROUP 8.....	\$ 42.84	23.35
GROUP 9.....	\$ 42.19	23.35
GROUP 10.....	\$ 42.96	23.35
GROUP 11.....	\$ 42.31	23.35
GROUP 12.....	\$ 43.13	23.35
GROUP 13.....	\$ 43.23	23.35
GROUP 14.....	\$ 43.26	23.35
GROUP 15.....	\$ 43.34	23.35
GROUP 16.....	\$ 43.46	23.35
GROUP 17.....	\$ 43.63	23.35
GROUP 18.....	\$ 43.73	23.35
GROUP 19.....	\$ 43.84	23.35
GROUP 20.....	\$ 43.96	23.35
GROUP 21.....	\$ 44.13	23.35
GROUP 22.....	\$ 44.23	23.35
GROUP 23.....	\$ 44.34	23.35
GROUP 24.....	\$ 44.46	23.35
GROUP 25.....	\$ 44.63	23.35

OPERATOR: Power Equipment
 (Cranes, Piledriving &
 Hoisting)

GROUP 1.....	\$ 41.30	23.35
GROUP 2.....	\$ 42.08	23.35
GROUP 3.....	\$ 42.37	23.35

GROUP 4.....	\$ 42.51	23.35
GROUP 5.....	\$ 42.73	23.35
GROUP 6.....	\$ 42.84	23.35
GROUP 7.....	\$ 42.96	23.35
GROUP 8.....	\$ 43.13	23.35
GROUP 9.....	\$ 43.30	23.35
GROUP 10.....	\$ 44.30	23.35
GROUP 11.....	\$ 45.30	23.35
GROUP 12.....	\$ 46.30	23.35
GROUP 13.....	\$ 47.30	23.35
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 41.80	23.35
GROUP 2.....	\$ 42.58	23.35
GROUP 3.....	\$ 42.87	23.35
GROUP 4.....	\$ 43.01	23.35
GROUP 5.....	\$ 43.23	23.35
GROUP 6.....	\$ 43.34	23.35
GROUP 7.....	\$ 43.46	23.35

PREMIUM PAY:

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

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

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

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

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

Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

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

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

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer

operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity); Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

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

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

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less than 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth-moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self-loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

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

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

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

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

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

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

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine,

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

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

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

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

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

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

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

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

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

GROUP 2: Truck crane oiler

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

operator (jobsite)

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

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

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist
operator (Chicago boom and similar type); Lift mobile
operator; Lift slab machine operator (Vagtborg and similar
types); Material hoist and/or manlift operator; Polar
gantry crane operator; Self Climbing scaffold (or similar
type); Shovel, backhoe, dragline, clamshell operator (over
3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

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

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

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

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

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

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

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

TUNNEL CLASSIFICATIONS

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

GROUP 2: Power-driven jumbo form setter operator

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

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

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

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

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

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

T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

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

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

Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

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

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

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2015

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 49.50	23.60
(2) Dredge dozer.....	\$ 43.53	23.60
(3) Deckmate.....	\$ 43.42	23.60
(4) Winch operator (stern winch on dredge).....	\$ 42.87	23.60
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 42.33	23.60
(6) Barge Mate.....	\$ 42.94	23.60

 IRON0377-002 01/01/2016

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 27.58	20.64
Ornamental, Reinforcing and Structural.....	\$ 34.00	29.20

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

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

\$2.00 additional per hour at the following locations:

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

LABO0089-001 07/01/2014

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 27.57	16.19
Group 2.....	\$ 28.25	16.19
Group 3.....	\$ 28.96	16.19
Group 4.....	\$ 29.76	16.19
Group 5.....	\$ 31.69	16.19
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 25.47	14.52
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).....	\$ 24.18	14.52

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

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and

air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

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

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

GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of oepration, including any and all forms of tubular material, whether pipe, metallic or

non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

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

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 27.98	13.39

LABO0089-004 07/01/2015

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 27.57	16.19
Group 2.....	\$ 28.25	16.19
Group 3.....	\$ 28.96	16.19
Group 4.....	\$ 29.76	16.19
Group 5.....	\$ 31.69	16.19

LABORER CLASSIFICATIONS

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

cones etc.), Window Cleaner

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

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

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

(Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic tracking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

 * LABO0300-005 01/01/2016

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 30.43	16.07

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

 LABO1184-001 08/01/2015

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...\$	32.60	12.16
(2) Vehicle Operator/Hauler.\$	32.77	12.16
(3) Horizontal Directional Drill Operator.....\$	34.62	12.16
(4) Electronic Tracking Locator.....\$	36.62	12.16
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....\$	33.76	15.04
GROUP 2.....\$	35.06	15.04
GROUP 3.....\$	37.07	15.04
GROUP 4.....\$	38.81	15.04

LABORERS - STRIPING CLASSIFICATIONS

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

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

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

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

LABO1414-003 08/05/2015

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER.....	\$ 30.16	17.11
PLASTER TENDER.....	\$ 32.71	17.11

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

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

PAIN0036-001 07/01/2015

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 27.29	12.83
(2) All Other Work.....	\$ 30.72	12.83

REPAINT of any previously painted structure. Exceptions:

work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 10/01/2015

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 27.84	15.20
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 21.00	13.91

PAIN0036-012 10/01/2015

	Rates	Fringes
GLAZIER.....	\$ 40.80	17.66

PAIN0036-019 01/01/2016

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 26.77	13.53

PLAS0200-005 08/06/2015

	Rates	Fringes
PLASTERER.....	\$ 38.44	13.77

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

PLAS0500-001 07/01/2015

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.47	17.32
GROUP 2.....	\$ 28.12	17.32
GROUP 3.....	\$ 30.75	17.27

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

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

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

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

 PLUM0016-006 07/01/2015

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton.....	\$ 50.46	20.71
Plumber and Pipefitter All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 45.96	20.71
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 44.51	19.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 35.16	18.06

 PLUM0016-011 07/01/2015

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....	\$ 37.17	16.63

 PLUM0345-001 07/01/2014

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

 ROOF0045-001 07/01/2012

	Rates	Fringes
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ROOFER.....\$ 25.08 7.28

* SFCA0669-001 01/01/2016

	Rates	Fringes
SPRINKLER FITTER.....	\$ 36.27	19.56

SHEE0206-001 01/01/2012

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

SHEET METAL TECHNICIAN - SCOPE:

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

TEAM0036-001 07/01/2012

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

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

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control,

Pickup Truck on Jobsite

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

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

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

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

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this

classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

* an existing published wage determination

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

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

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

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

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

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

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

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

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

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

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END OF GENERAL DECISION