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City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: Claudia Abarca, Contract Specialist, Email: Cabarca@sandiego.gov
Phone No. (619) 533-3439, Fax No. (619) 533-3450
ADelRincon/AReyes/egz

CONTRACT DOCUMENTS ORIGINAL



FOR

WEGEFORTH ELEMENTARY SCHOOL JOINT USE PARK IMPROVEMENTS

VOLUME 1 OF 2

BID NO.: _____ K-14-5653-DBB-3
SAP NO. (WBS/IO/CC): _____ S-00764
CLIENT DEPARTMENT: _____ 1714
COUNCIL DISTRICT: _____ 6
PROJECT TYPE: _____ GF

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE FEDERAL

BID DUE DATE:

**2:00 PM
APRIL 15, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14TH FLOOR, MS 614C
SAN DIEGO, CA 92101**

ENGINEER OF WORK

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

Vicki Estrada **JAN 26 2014**
1) Registered Engineer Date

Seal:




2) For City Engineer Date **2/5/14**

Seal

ACG
57500

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CITY OF SAN DIEGO, CALIFORNIA

NOTICE INVITING BIDS

1. **RECEIPT AND OPENING OF BIDS:** Bids will be received at the Public Works Contracting Group at the location, time, and date shown on the cover of these specifications for performing work on **WEGEFORTH ELEMENTARY SCHOOL JOINT USE PARK IMPROVEMENTS** (Project).
2. **SUMMARY OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described in ATTACHMENT A.
3. **BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
4. **SUBCONTRACTING PARTICIPATION PERCENTAGES:**
 - 4.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

| | |
|----------------------------------|--------------|
| 1. SLBE participation | 7.0% |
| 2. ELBE participation | 14.8% |
| 3. Total mandatory participation | 21.8% |
 - 4.2. The Bidders are strongly encouraged to attend the Pre-Bid Meeting to better understand the Good Faith Effort requirements of this contract. See the City's document titled "SLBE Program, Instructions For Bidders Completing The Good Faith Effort Submittal" available at: <http://www.sandiego.gov/eoc/>
 - 4.3. The Bid will be declared non-responsive if the Bidder fails the following mandatory conditions:
 - 4.3.1. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR.

4.3.2. Bidder's submission of Good Faith Effort documentation demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within **3 Working Days** of the Bid opening if the overall mandatory participation percentage is not met.

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

5. PRE-BID MEETING:

5.1. There will be a Pre-Bid Meeting to discuss the scope of the Project, bidding requirements, pre-qualification process, and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracting Group, Conference Room at 1010 Second Avenue, 14th Floor, San Diego, CA 92101 **at 10:00 AM, on MARCH 25, 2014.**

5.2. All potential bidders are encouraged to attend.

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

6. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:

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

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

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

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

Time: 11:00 AM
Date: MARCH 25, 2014
Location: 3443 Ediwhar Avenue, San Diego CA 92123

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

9. PREVAILING WAGE RATES: Prevailing wage rates apply to this contract.

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

- 9.1.1.** In accordance with the provisions of California Labor Code Sections 1770, et seq. as amended, the Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages in accordance with the standards set forth in such Sections for the locality in which the Work is to be performed. Copies of the prevailing rate of per diem wages may be found at http://www.dir.ca.gov/dlsr/statistics_research.html. The Contractor shall post a copy of the above determination of the prevailing rate of per diem wages at each job site and shall make them available to any interested party on request.
- 9.1.2.** Pursuant to Sections 1720 et seq., and 1770 et seq., of the California Labor Code the Contractor any Subcontractor shall pay not less than said specified rates determined by the Director of the California Department of Industrial Relations to all workmen employed by them in the execution of the Work.
- 9.1.3.** The wage rates determined by the Director of Industrial Relations and published in the Department of Transportation publication entitled, "General Prevailing Wage Rates", refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, said published rate of wage shall be in effect for the life of this contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the Department of Industrial Relations, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this contract, each successive predetermined wage rate shall apply to this contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this contract, such wage rate shall apply to the balance of the contract.
- 9.1.4.** The successful bidder intending to use a craft or classification not shown on the prevailing rate determinations may be required to pay the rate of the craft or classification most closely related to it.

10. INSURANCE REQUIREMENTS:

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

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

11. PREQUALIFICATION OF CONTRACTORS:

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

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

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

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

| Title | Edition | Document Number |
|--|---------|-----------------|
| Standard Specifications for Public Works Construction ("The GREENBOOK") | 2012 | PITS070112-01 |
| City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* | 2012 | PITS070112-02 |
| City of San Diego Standard Drawings* | 2012 | PITS070112-03 |
| Caltrans Standard Specifications | 2010 | PITS070112-04 |
| Caltrans Standard Plans | 2010 | PITS070112-05 |
| California MUTCD | 2012 | PITS070112-06 |
| City Standard Drawings - Updates Approved For Use (when specified)* | Varies | Varies |
| Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause Dated 09-11-84 | 1984 | 769023 |

NOTE: *Available online under Engineering Documents and References at: <http://www.sandiego.gov/publicworks/edocref/index.shtml>

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

14. **CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
15. **CONTRACT PRICING FORMAT:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth in the Bid Proposal Form(s), Volume 2.
16. **SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.
17. **AWARD PROCESS:**
- 17.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 17.2. Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
- 17.3. This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.
18. **SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The GREENBOOK and as amended in the SSP which requires the Contractor to self perform not less than the specified amount. Failure to comply with these requirements shall render the Bid **non-responsive** and ineligible for award.
19. **AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracting Group.
20. **SUBMISSION OF QUESTIONS:**
- 20.1. The Director (or designee), of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:
- Public Works Contracting Group
1010 Second Avenue, 14th Floor
San Diego, California, 92101
- Attention: [Contract Specialist listed on the front cover hereof]
- OR:
- Email address of the Contract Specialist listed on the front cover hereof.

- 20.2. Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 20.3. Clarifications deemed by the City to be material shall be issued by Addenda and uploaded to the City's online bidding service.
- 20.4. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. It is the Bidder's responsibility to become informed of any Addenda that have been issued and to include all such information in its Bid.
21. **ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in **more** than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.
22. **SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms with the Notice Inviting Bids and Contract forms.
23. **PROPOSAL FORMS:** Bid shall be made only upon the Bidding Documents i.e., Proposal form attached to and forming a part of the specifications. The signature of each person signing shall be in longhand.
- 23.1. Bidder shall complete and submit all pages in the "Bidding Document" Section (see Volume 2) as their Bid per the schedule given under "Required Documents Schedule," (see Volume 1). Bidder is requested to retain for their reference other portions of the Contract Documents that are not required to be submitted with the Bid. The entire specifications for the bid package do not need to be submitted with the bid.
- 23.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.
- 23.3. Bids and certain other forms and documents as specified in the Volume 2 of 2 of the Contract Documents shall be enclosed in a sealed envelope and shall bear the title of the work and name of the Bidder and the appropriate State Contractors License designation which the Bidder holds.
- 23.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.
24. **BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY):**
- 24.1. With the exception of the contracts valued \$5,000 or less, JOC and Design-Build contracts, and contracts subject to the Small and Local Business Program of \$250,000 or less e.g., ELBE contracts, each Bidder shall accompany its Bid with

either a cashier's check upon some responsible bank, or a check upon such bank properly certified or an approved corporate surety bond payable to the City of San Diego, for an amount of not less than 10% of the aggregate sum of the Bid, which check or bond, and the monies represented thereby shall be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into such contract and furnish the required final bonds.

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

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

25. AWARD OF CONTRACT OR REJECTION OF BIDS:

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

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

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

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

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

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

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

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

26. BID RESULTS:

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

26.2. To obtain Bid results, either attend Bid opening, review the results on the City's web site, or provide a self-addressed, stamped envelope, referencing Bid number, and Bid tabulation will be mailed to you upon verification of extensions. Bid results cannot be given over the telephone.

27. THE CONTRACT:

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

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

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

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

27.5. The award of the Contract is contingent upon the satisfactory completion of the above mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the

next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.

- 28. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 29. CITY STANDARD PROVISIONS:** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 29.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 29.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 29.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 29.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 29.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 29.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 29.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.
- 30. PRE-AWARD ACTIVITIES:**
- 30.1.** The selected contractor by the City to execute a contract for this Work shall provide the information required within the time specified in "Required Documents," of this bid package. Failure to provide the information within the time specified may result in the Bid being rejected as **non-responsive**.
- 30.2.** If the Bid is rejected as non-responsive, the selected contractor by the City to execute a contract for this Work shall forfeit the required Bid. The decision that the selected contractor by the City to execute a contract for this Work is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

31. REQUIRED DOCUMENT SCHEDULE:

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

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

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

| ITEM | WHEN DUE | FROM | DOCUMENT TO BE SUBMITTED |
|------|---|---------------------|---|
| 1. | BID SUBMITTAL DATE/TIME | ALL BIDDERS | Bid |
| 2. | BID SUBMITTAL DATE/TIME | ALL BIDDERS | Bid Bond |
| 3. | BID SUBMITTAL DATE/TIME | ALL BIDDERS | Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106 |
| 4. | BID SUBMITTAL DATE/TIME | ALL BIDDERS | Contractors Certification of Pending Actions |
| 5. | BID SUBMITTAL DATE/TIME | ALL BIDDERS | Equal Benefits Ordinance Certification of Compliance |
| 6. | BID SUBMITTAL DATE/TIME | ALL BIDDERS | Form AA35 - List of Subcontractors |
| 7. | BID SUBMITTAL DATE/TIME | ALL BIDDERS | Form AA40 - Named Equipment/Material Supplier List |
| 8. | WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION | ALL BIDDERS | SLBE Good Faith Efforts Documentation |
| 9. | WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION | ALL BIDDERS | Form AA60 – List of Work Made Available |
| 10. | WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION | ALL BIDDERS | Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs. |
| 11. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Names of the principal individual owners of the Apparent Low Bidder |

| ITEM | WHEN DUE | FROM | DOCUMENT TO BE SUBMITTED |
|-------------|--|---------------------|--|
| 12. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | If the Contractor is a Joint Venture: <ul style="list-style-type: none"> • Joint Venture Agreement • Joint Venture License |
| 13. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Form BB05 - Work Force Report |
| 14. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Contract Forms - Agreement |
| 15. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Contract Forms - Payment and Performance Bond |
| 16. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Certificates of Insurance and Endorsements |
| 17. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Contractor Certification - Drug-Free Workplace |
| 18. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Contractor Certification - American with Disabilities Act |
| 19. | WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS | APPARENT LOW BIDDER | Contractors Standards - Pledge of Compliance |

CONTRACT FORMS
AGREEMENT

CONTRACT FORMS

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and Dick Miller, Inc., herein called "Contractor" for construction of Wegeforth Elementary School Joint Use Park Improvements; Bid No. K-14-5653-DBB-3; in the amount of Two Million Three Hundred Twenty-Three Thousand Two Hundred Thirty-Two Dollars and Zero Cents 00/100 (\$2,323,232.00), which is comprised of the Base Bid only.

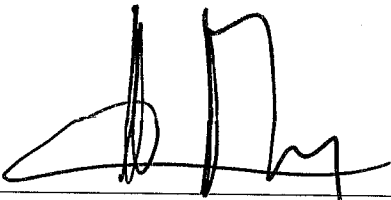
IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:
 - (a) The attached Faithful Performance and Payment Bonds.
 - (b) The attached Proposal included in the Bid documents by the Contractor.
 - (c) Reference Standards listed in the Notice Inviting Bids and the Supplementary Special Provisions (SSP).
 - (d) That certain documents entitled Wegeforth Elementary School Joint Use Park Improvements, on file in the office of the Public Works Department as Document No. S-00764, 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 Wegeforth Elementary School Joint Use Park Improvements, Bid Number K-14-5653-DBB-3, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.

CONTRACT FORMS (continued)

IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code §22.3102(a)(1) authorizing such execution.

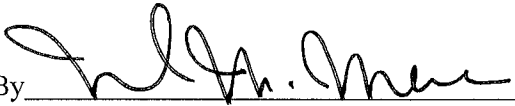
THE CITY OF SAN DIEGO

By 
Albert P. Rechany
Deputy Director
Public Works Contracts

Date: 8/7/14

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By 

Print Name: Mark M. Merce
Deputy City Attorney

Date: 8/8/14

CONTRACTOR

By M-F.B

Print Name: GLEN F. BULLOCK

Title: PRESIDENT

Date: 5-23-14

City of San Diego License No.: B2D14004558

State Contractor's License No.: 380204

**CONTRACT FORMS
ATTACHMENTS**

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

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Dick Miller, Inc., a corporation, as principal, and The Ohio Casualty Insurance Company, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of **Two Million Three Hundred Twenty-Three Thousand Two Hundred Thirty-Two Dollars and Zero Cents 00/100 (\$2,323,232.00)** for the faithful performance of the annexed contract, and in the sum of **Two Million Three Hundred Twenty-Three Thousand Two Hundred Thirty-Two Dollars and Zero Cents 00/100 (\$2,323,232.00)** for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **Wegeforth Elementary School Joint Use Park Improvements**, Bid Number **K-14-5653-DBB-3**, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

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

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

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

*Premium subject to
change based on final
contract price.*

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

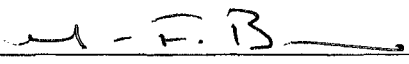
The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated May 29, 2014

Approved as to Form and Legality

Dick Miller, Inc.

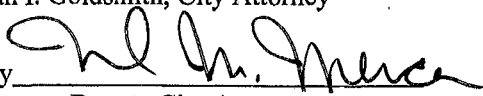
Principal

By 

Glen F. Bullock

Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

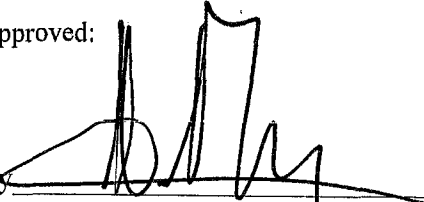
By 
Deputy City Attorney

The Ohio Casualty Insurance Company

Surety

By 
Attorney-in-fact, Bart Stewart

Approved:


Albert P. Rechany
Deputy Director
Public Works Contracts

790 The City Drive South Ste. 200,

Local Address of Surety

Orange, CA 92868

Local Address (City, State) of Surety

(714) 634-3311

Local Telephone No. of Surety

Premium \$ 23,062

Bond No. 024056007

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

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

Certificate No. 6268727

American Fire and Casualty Company
The Ohio Casualty Insurance Company

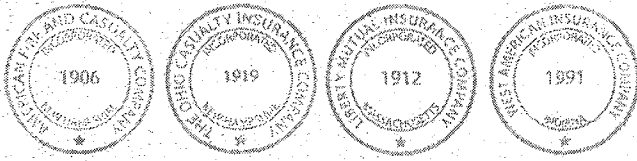
Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Bart Stewart; Brittany Aceves

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

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 3rd day of September, 2013.



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

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

STATE OF WASHINGTON ss
COUNTY OF KING

On this 3rd day of September, 2013, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

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



By: KD Riley
KD Riley, Notary Public

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

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

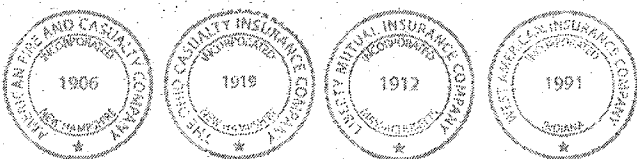
ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 29th day of May, 2014.



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

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

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

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of San Diego

On 05/29/2014 before me, Molly Cashman, Notary Public,
(Here insert name and title of the officer)

personally appeared Bart Stewart

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.

Molly Cashman

 Signature of Notary Public



ADDITIONAL OPTIONAL INFORMATION

| |
|--|
| DESCRIPTION OF THE ATTACHED DOCUMENT _____ <small>(Title or description of attached document)</small> _____ <small>(Title or description of attached document continued)</small> Number of Pages _____ Document Date _____ _____ <small>(Additional information)</small> |
|--|

| |
|--|
| CAPACITY CLAIMED BY THE SIGNER <input type="checkbox"/> Individual (s) <input type="checkbox"/> Corporate Officer _____ <small>(Title)</small> <input type="checkbox"/> Partner(s) <input type="checkbox"/> Attorney-in-Fact <input type="checkbox"/> Trustee(s) <input type="checkbox"/> Other _____ |
|--|

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- 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

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

PROJECT TITLE: Wegeforth Elementary School Joint Use Park Improvements

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;

DWI - Dick Miller Inc.

(Name under which business is conducted)

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

Signed G.F.B.

Printed Name GLEN F. BULLOCK

Title PRESIDENT

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: Wegeforth Elementary School Joint Use Park Improvements

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;

DMI - DICKMILLER INC.

(Name under which business is conducted)

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

Signed G. F. Bullock

Printed Name GLEN F. BULLOCK

Title PRESIDENT

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: Wegeforth Elementary School Joint Use Park Improvements

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

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

Dated this 23RD Day of MAY, 2014.

Signed M. E. B.

Printed Name GLEN F. BULLOCK

Title PRESIDENT

AFFIDAVIT OF DISPOSAL

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

Wegeforth Elementary School Joint Use Park Improvements

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-14-5653-DBB-3**; SAP No. (WBS/CC/IO) **S-00764** and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

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

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

Dated this _____ DAY OF _____, _____.

_____ Contractor

by

ATTEST:

State of _____

County of _____

On this _____ DAY OF _____, 2_____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____

Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

ATTACHMENTS

ATTACHMENT A
SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** The scope of work provides for the design of approximately 4.0 acres at Wegeforth Elementary School for joint use facilities to meet population base requirements and to supplement existing park acreage in the Serra Mesa community. Proposed improvements include turfed multi-purpose sports field, courts, walkways, landscaping, parking, security lights, drainage, comfort station and accessibility upgrades.
 - 1.1. The Work shall be performed in accordance with:
 - 1.1.1. This Notice Inviting Bids and Plans numbered **36484-1-D** through **36484-78-D**, inclusive.
2. **CONSTRUCTION COST:** The City's estimated construction cost for this contract is **\$2,202,000**.
3. **LOCATION OF WORK:** **The location of the Work is as follows:**

Serra Mesa community at Wegeforth Elementary School.
4. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **286 Working Days**.
5. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.
 - 5.1. The City has determined the following licensing classification(s) for this contract:
 - CLASS A

ATTACHMENT B
INTENTIONALLY LEFT BLANK

ATTACHMENT C
EQUAL OPPORTUNITY CONTRACTING PROGRAM

EQUAL OPPORTUNITY CONTRACTING PROGRAM

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

D. CITY'S EQUAL OPPORTUNITY COMMITMENT.

1. Nondiscrimination in Contracting Ordinance.

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

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

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

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

E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.

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

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

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

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

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

ATTACHMENT D
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ATTACHMENT E
SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

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

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

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

1-2 TERMS AND DEFINITIONS.

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

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

SECTION 2 - SCOPE AND CONTROL OF WORK

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

1. You must perform, with your own organization, Contract work amounting to at least 50% of the base bid alone or base bid and any additive or deductive alternate(s) that together when added or deducted form the basis of award.
2. The self performance percentage requirement will be waived for contracts when a “B” License is required or allowed.

2-5 PLANS AND SPECIFICATIONS.

2-5.3 Submittals.

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>

8. All submitted product data shall be legible and be the most up to date information provided by the manufacturer. Any data sheets provided which are dated beyond the last two years shall be accompanied by a letter or certification by the manufacturer that it is the most current information available. Failure to provide such information shall be grounds for rejection of that item.

2-7 SUBSURFACE DATA. ADD the following:

1. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests of subsurface conditions at the Work Site:
 1. Report of Geotechnical Investigation dated March 28, 2011 by GEOCON, Incorporated.

The report listed above is available for review in Appendix G.

SECTION 4 - CONTROL OF MATERIALS

4-1.3.4 Inspection Paid for by the Contractor. To the City Supplement, ADD the following:

Concrete, masonry, rebar, welding, soil, steel.

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>

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.

7-3.2.3 Contractors Pollution Liability Insurance.

1. You must procure and maintain at your expense or require Subcontractor, as described below to procure and maintain, the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.
2. All costs of defense must be outside the limits of the policy. Any such insurance provided by Subcontractor instead of you must be approved separately in writing by the City.
3. For approval of a substitution of Subcontractor’s insurance, you must certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible must not exceed \$25,000 per claim.
4. Contractual liability must include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There must be no endorsement or modification of the coverage limiting the scope of coverage for either “insured vs. insured” claims or contractual liability.
5. Occurrence based policies must be procured before the Work commences and must be maintained for the Contract Time. Claims Made policies must be procured before the Work commences, must be maintained for the Contract Time, and must include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies must continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
6. 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.

7-3.2.5 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.

7-3.5.3 Contractors Pollution Liability Insurance Endorsements.

7-3.5.3.1 Additional Insured.

- a) The policy or policies must be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you; except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement must not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.
- b) In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that is not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives must be limited to obligations permitted by California Insurance Code §11580.04.

7-3.5.3.2 Primary and Non-Contributory Coverage. The policy or policies must be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives must be in excess of your insurance and must not contribute to it.

7-3.5.3.3 Severability of Interest. For Contractors Pollution Liability Insurance, the policy or policies must provide that your insurance must apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and must provide cross-liability coverage.

7-3.5.5 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.

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

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

1. DSA Approval of Plans and Specifications

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.

ADD:

7-22 PROTECTION OF EXISTING PLANT MATERIAL.

7-22.1 Construction Operations.

- a) All plants outside the limit of work shall be protected in place. All trees to remain shall be protected in place.
- b) Do not operate equipment, which generates fumes or excessive heat, within 20' of the trees to remain. Fumes and heat can damage trees.
- c) The grade around existing trees to remain shall remain as existing to avoid disturbance of roots and avoid burying the roots under additional soil.
- d) When excavation near a tree to be preserved must be carried out, damage shall be limited by root pruning as outlined in Section 308-6.1.3 Root Pruning (Sidewalk replacement).
- e) Buried utilities and irrigation piping and equipment shall be located out of root zones wherever possible. In cases where utilities must cross root zones, tunnels shall be utilized in lieu of trenches. Tunneling within the rooting area of a tree to remain shall be done under the supervision of the Resident Engineer.

- f) Trenching, excavation and soil disturbance within the drip line of vegetation to remain shall not be permitted except as specifically allowed by the Resident Engineer. It is the intent of the plans that the Contractor provide an alternate routing of irrigation, electrical and all trenching to avoid cutting through roots of existing trees.
- g) Where it is necessary to excavate in close proximity to existing trees and shrubs, all possible caution shall be exercised to avoid injury to roots and trunks. In the event it is necessary to cut the roots of an existing tree to remain, the tree shall be pruned prior to excavation to reduce the foliage volume by the same percentage as the approximate percentage of roots removed. All work shall be performed under the direction of the Resident Engineer.
- h) Excavation within the drip line of the trees shall be done by hand, tunneling under roots 1" in diameter and larger, and shall be done only on the approval of the Resident Engineer. The exposed roots of trees shall be covered and shaded by moist burlap or canvas until the trench is backfilled (See Section 308-4).
- i) All plants to remain on-site shall be watered if necessary during the entire construction contract to provide for plant health and survival. Watering shall be done under the direction of the Resident Engineer.

7-22.2 Clean-Up Repair and Maintenance.

- a) Upon completion of all work, remove tools equipment and tree preservation materials and measures from the site.
- b) Repair all areas, structures and surfaces damaged and requiring repair resulting from tree preservation measures. Repair adjacent construction or surfaces soiled or damaged by tree preservation measures.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

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

SECTION 9 - MEASUREMENT AND PAYMENT

ADD:

9-3.7 Compensation Adjustments for Price Index Fluctuations. This Contract is not subject to the provisions of The WHITEBOOK for Compensation Adjustments for Price Index Fluctuations for the paving asphalt.

SECTION 200 - ROCK MATERIALS

ADD:

200-1.5.6 Sand for Bioswale. Sand for the bioswale engineered soil shall be mortar sand, with 95-100 percent passing through a No. 8 sieve per 'sand gradations table' 200-1.5.5 (A) and

comprise 40% of the engineered soil mixture. The engineered soil consists of a mixture of sand (40%), compost (20-30%) and topsoil (30-40%) with a minimum infiltration rate of 5"/hour and adequate nutrient content to meet plant growth requirements.

SECTION 201 - CONCRETE, MORTAR AND RELATED MATERIALS

201-1 PORTLAND CEMENT CONCRETE.

201-1.1.2 Concrete Specified By Class. ADD the following:

The concrete class and maximum slump for the various items of concrete work shall be as specified in the table under Subsection 201-1.1.2 of the Standard Specifications with the following additions or modifications:

| <u>Item</u> | <u>Concrete Class</u> | <u>Max. Slump (in.)</u> |
|--------------------------------|-----------------------|---|
| Concrete (sidewalk, driveways) | 560-C-3250 | 4-inch (Must be certified by truck ticket.) |
| Concrete Curb, Mow Curbs | 560-C-3250 | 4-inch |
| Concrete Street Section | 560-C-3250 | 3-inch |
| Concrete Base | 520-C-2500 | 4-inch |
| Fence Post Foundations | 520-C-2500 | 4-inch, dimensions per plans |

201-2 REINFORCEMENT FOR CONCRETE.

ADD:

201-2.5 Tie Wire. Tie wire shall be 16 gauge, black annealed.

ADD:

201-2.6 Reinforcing Supports. All horizontal reinforcing shall be supported on approved chairs or supports to the specified height and locations.

ADD:

201-2.7 Dowels. Dowels shall be sections of deformed steel reinforcing rod in sizes and lengths as indicated on the plans. Dowels shall be provided in locations where resilient paving sub-slab abuts existing wall and new concrete access way. Dowels shall also be provided for the concrete access way where it abuts the existing concrete wall. Provide dowels at the on-center spacing as indicated on the plan, centered on concrete slab, with a minimum of two dowels abutting into any adjacent slab sections.

201-3 EXPANSION JOINT FILLER AND JOINT SEALANTS.

201-3.4 Type “A” Sealant (Two-Part Polyurethane Sealant). ADD the following:

All finished concrete surfaces shall have a 1/2" continuous expansion joint at locations indicated on the plans and notes and shall be located either parallel or perpendicular to the curb line. When not otherwise indicated all expansion joints

located adjacent to colored or stained concrete shall be sealant Type “A” colored to match the color of the concrete surface.

Contractor shall provide joint sealants that have been produced and installed to establish and to maintain watertight and airtight continuous seals without causing staining or deterioration of joint substrates.

Contractor shall submit product data from the manufacturer of each joint sealant product required, including instructions for joint preparation and joint sealer application. Contractor shall also submit samples for initial selection purposes in form of manufacturer's standard bead samples, consisting of strips of actual products showing full range of colors available, for each product exposed to view. Samples shall be submitted to Engineer. Submit complete schedule of type (and location where type is to be used) of each sealant.

Contractor shall engage an experienced installer who has completed joint sealant applications similar in material, design, and extent to that indicated for Project that have resulted in construction with a record of successful in-service performance. Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.

Provide color selections made by Engineer from manufacturer's full range of standard colors for products of type indicated. Sealant color parallel to curb line shall match color of adjacent.

SECTION 202 – MASONRY MATERIALS

ADD:

202-4 PERMEABLE CONCRETE PAVERS.

Precast concrete paver units shall be as follows, or approved equal.

Model: Aqua Roc’ Permeable Concrete Pavers - precast concrete, consisting of Portland cement, aggregate, and color admixtures.
Dimensions: 4.5” x 9” x 3.125”
Colors: ‘Bella’
Finish: Standard finish
Local Supplier: Seth Seaton, Belgard Pavers, (909) 754-2542
www.belgardUSA.com

Permeable concrete paver units shall meet the minimum material and physical properties set forth in ASTM C 936, Standard Specification for Interlocking Concrete Paving Units. Efflorescence shall not be a cause for rejection.

Permeable concrete paving stones are manufactured with spacer bars on each unit. These spacer bars insure a proper and precise joint spacing between all paving stones units. Spacer bars establish proper spacing between units during installation.

Contractor shall clean any efflorescence that develops at the surface of the new improvements with an approved concrete cleaner. Efflorescence is a whitish powder-like deposit that sometimes appears on concrete products. Calcium hydroxide and other water-soluble materials form or are present during the hydration of Portland cement. Water combines with these materials, and can migrate to the surface of the concrete. When this water evaporates, the soluble materials remain as a whitish deposit on the concrete surface. The calcium hydroxide is converted to calcium carbonate during a reaction with carbon dioxide from the atmosphere. The calcium carbonate is difficult to remove with water. However, efflorescence will wear off in time and it is advised to wait a few months before attempting to remove any efflorescence. Commercially available cleaners can be used, provided directions are carefully followed. Some cleaners contain acids that may alter the color of the pavers.

Permeable paver units are 3.15 in. (80 mm) in thickness and compressive strength test results should be adjusted by multiplying them by 1.18 to equate the results to that from 2.3622 in. (60 mm) thick paver units. Please refer to ICPI Tech Spec 9 (Revised August 2007) Part 2 products 2.01, interlocking concrete pavers / B / d / note.

1. Average compressive strength 8000 psi (55MPa) with no individual unit under 7,200 psi (50 MPa).
2. Average absorption of 5% with no unit greater than 7% when tested according to ASTM C 140.
3. Resistance to 50 freeze-thaw cycles when tested according to ASTM C 67.

Pigment in concrete pavers shall conform to ASTM C 979. ACI Report No. 212.3R provides guidance on the use of pigments.

Quantities - The contractor is responsible for ordering quantities to provide for installation. Contractor shall include a 10% surplus of each concrete paver color for future use. Surplus tiles shall be delivered to a location acceptable to the Engineer upon completion of the work.

202-4.1 Granular Sub-base. The granular sub-base material shall be No. 2 aggregate material, thickness in-place per the plan drawings.

202-4.2 Base Course. Base course shall be No. 57 aggregate, thickness per the plan drawings.

202-4.3 Setting Bed Gravel. The gravel laying course shall be No. 8 crushed gravel, thickness per the plan drawings.

202-4.4 Void Opening Aggregates. The void opening material shall be No. 8 crushed gravel per the plan drawings.

202-4.5 Concrete Header Restraint. All edges of the installed porous pavers shall be restrained by concrete gutters, sidewalk paving or asphalt paving. The headers shall be provided at locations shown on the plans and per the dimensions indicated in the details.

SECTION 206 - MISCELLANEOUS METAL ITEMS

206-6.1 General. ADD the following:

All chain link fence steel framing parts shall be galvanized (not vinyl coated).

206-6.2 Materials For Posts, Rails and Braces. ADD the following:

206-6.2.1 Rails and Braces. For this project the fence shall have a continuous top rail 1-5/8" O.D. tubing weighing 1.35 lbs. per foot. The top rail shall pass through openings provided in the line post top and each length shall be coupled with an internal swaged sleeve for a distance of 3". The chain link fabric shall be attached to the top rail by means of a 13 (.091) gauge vinyl coated tie wire, double wrapped, at intervals of approximately 24".

In lieu of a bottom rail, A 6 (.192) gauge vinyl coated tension wire shall be provided along the bottom of the fence line. The fabric shall be attached to the tension wire at intervals of 24" with vinyl coated hog rings.

Fabric shall be held in place at all terminal posts by means of tension bands not to exceed intervals of 15". Attachment bolts for bands shall be 5/16" x 1-1/2" galvanized carriage bolts with nuts. Bolts and nuts shall match galvanized finish. One tension bar shall be provided for each end and gate post and two for each corner and pull post.

206-6.3.1 Galvanized Fabric. ADD the following:

206-6.3.1.1 Perimeter Chainlink Fencing. Chain link fencing shall be steel fabricated fencing with galvanized finish to comply with the dimensions as indicated on the drawings and with Section 206-6 'Chain Link Fence'.

206-6.3.1.2 8' Chainlink Fencing. Eight-foot tall chain link fencing shall be galvanized fabric and comply with the dimensions as indicated on the drawings and with Section 206-6 'Chain Link Fence'.

206-6.3.1.3 10' Chainlink Fencing. Ten-foot tall chain link fencing shall be galvanized fabric and comply with the dimensions as indicated on the drawings and with Section 206-6 'Chain Link Fence'.

206-6.3.1.4 6' Chainlink Fencing. Six-foot tall chain link fencing shall be galvanized fabric and shall comply with the dimensions as indicated on the drawings and with Section 206-6 'Chain Link Fence'.

206-6.6 Fittings. ADD the following:

Hand-activated door opening hardware, handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate (CBC Section 1133B2.5.2)

The lever of actuated latches or locks shall be curved with a return to within ½” of the (face of) gate to prevent catching on the clothing or persons. California Referenced Standards code T-24 Part 12, Section 12-10-202, Item (F).

The bottom 10” of an accessible gate shall have a smooth, uninterrupted surface on each side. The bottom of the gate shall be within 3” of the finish surface of the path of travel. The maximum effort to operate a gate shall not exceed 5 lbf (22.2 N). CBC Sections 1133.2.5, 1133B2.6, and 1110B.1.6 Item 6 – similar application.

206-7.1 Disabled Parking Sign. Signs shall be fabricated in conformance with the SDRSD M-117 standards for signs.

SECTION 209 - STREET LIGHTING AND TRAFFIC SIGNAL MATERIALS

ADD:

209-10 GENERAL ELECTRICAL REQUIREMENTS.

209-10.1 Description. All electrical work shall be in conformance with the plans, and State, Federal and Local Electric Codes and City of San Diego Park and Recreation Department Consultant’s Guide to Park Design and Development Design Manual, 2011. Work includes, but is not necessarily limited to, providing site power systems as follows:

1. Complete electrical secondary conduit systems, including all pull and all meter pedestals, handholes, splice boxes, pads, and other associated components.
2. All conduit and feeder conductors for site work components.
3. All site area lighting, including service and conduit together with related photocells.
4. All required trenching, soil removal/replacement, compaction and turf repairs, to current City standards.
5. Payment of all permit fees, utility company installation charges, SDG&E service orders, engineering fees, relocation costs, and related charges, as applicable.

209-10.2 Schedule. The Contractor shall obtain information and instructions from other Contractors on the site and other trades and suppliers in ample time to schedule and coordinate the installation of items furnished by them under this section so that provisions for their work can be made without delaying the project.

209-10.3 Accuracy of Data. The electrical drawings are diagrammatic, but shall be followed as closely as actual construction and work in other sections will permit. All deviations from drawings required to conform to site conditions and to the work of others, shall be made as directed.

209-10.4 Submittals.

1. Materials List - Provide complete materials list of all proposed products, including catalog cuts of manufactured items.

209-10.5 Quality Assurance.

1. Manufacturer shall have produced the specified products for a period of 2 years prior to beginning work of this section, and shall have the capability to produce the specified products to the delivery and quantity criteria of the project.
2. STAFF - For fabrication and installation of work, use only personnel who are thoroughly trained and experienced in the skills required, have installed similar applications of the specified products within one year prior to beginning work of this section, and who are completely familiar with the manufacturers' recommended methods of installation as well as the requirements of this work.

209-10.6 Guarantee. The contractor shall furnish a written guarantee against defective work, materials, and operation for a period of one full year after final acceptance.

1. All materials and equipment shall be new, free from defects and or the quality or rating shown or specified.
2. Any defect due to missing or improper material or faulty workmanship existing or developed during the specified period shall be corrected and the resulting damage repaired without additional cost to the City. Such work shall be done at a time as directed by the Engineer.

209-1.7 Product Handling.

1. **Protection** - Use all means necessary to protect the materials of this section before, during, and after installation and to protect the work and materials, of all other trades.
2. **Replacements** - In the event of damage, immediately make all repairs and replacements necessary to the approval of the Engineer and at no additional cost to the City.

209-10.8 Covering of Unreviewed Work. No work shall be covered, or enclosed, without review, testing, and/or approval by Engineer. Work enclosed or covered prior to review and test shall be uncovered at Contractor's expense. After review, retest for approval and repair with material necessary to restore to original and proper condition.

209-11 ELECTRICAL COMPONENTS.

209-11.1 Conduit.

1. **Rigid Non-metallic Conduit.** Heavy-wall rigid non-metallic conduit, where permitted, shall be Carlon or equal, PVC Schedule 40 manufactured in accordance - with NEMA TC-2, UL-651 and WC 1094A specifications.
2. Conduit shall be delivered to site in standard lengths with each length bearing the manufacturer's trademark or stamp and U.L. Labeled.
3. Conduit shall be minimum 3/4 inch or larger in diameter.

4. All conduits shall contain equipment grounding conductors.

209-11.2 Wire/Conductors.

1. All wire and cable shall be rated for 600 volt, be color-coded, shall bear the Underwriters' Label, and shall be brought to the job in unbroken packages.
2. Wire coding shall be in accordance with the provisions of Section 210-5 of the latest edition of the National Electric Code.
3. All conductors unless noted otherwise shall be copper, No. 12 AWG minimum size. All conductors shall be stranded. Insulation type, unless otherwise noted, shall be as follows:
 4. Feeder conductors: Type THW, 75 Degrees C.
 5. Fixture and branch circuit conductors: Type THHN/THWN: XHHW or RHH - minimum 90 degrees C, unless otherwise noted.
 6. Acceptable Manufacturers: General Wire and Cable Corp., Okonite Wire and Cable Corporation or approved substitute.
 7. All branch circuit conductors shall be labeled with circuit numbers.
 8. One neutral conductor for each phase conductor pulled.
 9. For wire #10 AWG and smaller provide Buchanan connectors or approved substitute. For wire #8 AWG and larger provide T&B "Lock-Tite" connectors or equal.
10. All connections shall be taped with rubber tape 1-1/2 times the thickness of the conductor insulation, then covered with Scotch #33 tape, or equal.
11. Splices in underground distribution systems shall be made only in accessible locations such as handholes, with a compression connector on the conductor and by insulating and waterproofing by the following methods suitable for continuous submersion in water. Provide cast-type splice insulation by means of molded casting process employing a thermosetting epoxy resin insulating material applied by a gravity-poured method or by a pressure-injected method. Provide component materials of the resin insulation in a packaged form ready for convenient mixing without removing from the package. Do not allow the cables to be moved until after the splicing material has completely set.

209-11.3 Pull/Splice Boxes (Below Grade). All pull boxes shall be sized and constructed per serving utility requirements, using precast ring design for box. Provide cover lid as required for pedestrian or vehicular traffic condition, with bolted connections, and labeled with name of serving utility. All boxes shall be located 1" above grade in landscape areas and flush with pavement in paved or traffic areas.

209-11.4 Site Lighting. Lighting fixtures and poles shall be per the schedule on the drawings or approved equal as accepted by the Engineer and shall include all accessories for a complete system. Provide #6 AWG connection from pole ground lug to reinforcing of concrete footing base. All pole mounted fixtures shall be 'full cut-off' per the ordinances as set forth by the City of San Diego.

209-11.5 Other Materials. All other required materials shall be new, of highest quality for applicable use, and per approval of local agency, servicing utility, and City of San Diego.

SECTION 210 – PAINT AND PROTECTIVE COATINGS

210-6 ANTI-GRAFFITI COATINGS. ADD the following:

Anti-graffiti coating shall be applied to all masonry site furnishings, including picnic tables, drinking fountains, restroom building, etc.

SECTION 212 – LANDSCAPE AND IRRIGATION MATERIALS

212-1 LANDSCAPE MATERIALS.

212-1.1 Topsoil.

212-1.1.1 General. DELETE in its entirety and ADD the following:

For this specific project, topsoil shall be provided in all lawn areas to a depth of 9” and meet the horticultural requirements for Class “A” topsoil per ‘Whitebook’ 212-1.1.2.

ADD:

212-1.1.5 Infield Soil Mix. Infield soil mix shall be a red oxide color designated for use in baseball infield areas shown on the plans. Infield soil shall be A-1 Soils: Red Infield Soil or approved equal. The infield soil shall meet the following requirements:

Screen Size: 1/8”
Texture: Clay: 10% - 15%
Sand: 15% - 25%, as per test method California Test 217 or ASTM D2419
pH Range: 6.0 to 8.5
Thickness: 4” min.

212-1.2 Soil Fertilizing and Conditioning Materials.

212-1.2.2 Manure. DELETE in its entirety.

212-1.2.3 Commercial Fertilizer. ADD the following:

Pre-plant fertilizer shall be granular commercial fertilizer with not more than 6 percent total nitrogen; and not less than 20 percent available phosphoric acid and 20 percent soluble potash.

Post-plant fertilizer shall be 16-6-8 or approved equivalent with CA, FE, ZN, and MN and with the majority of nitrogen in non-ammoniac form to prevent acidification of soil.

Iron sulphate, iron shall be expressed as metallic-derived from sulfate-deep green (feso4•h2o) a minimum analysis of 200% and 98.3% retained on a 10 mesh screen.

Soil conditioner shall be granular, tri-c humate plus, a blend of humate and gypsum or approved equal, and shall contain 25% humic acids. It shall be free flowing, suitable for application with approved equipment and shall contain the minimum available percentages of 7% calcium and 5% sulphur.

212-1.2.4 Organic Soil Amendment. ADD the following:

Contractor shall supply the Resident Engineer with a 2 cu. ft. sample of the proposed amendment accompanied by Laboratory Analytical Analysis from an approved laboratory illustrating degree of compliance. Guarantee - wt./cu./yd. - 560#-820#. Nitrogen (organic or ammoniac) 0.5% pH (less than) 6.5. Salinity (ec x 10 at 25 c) = 2.5. Iron (fe) expressed as metallic 0.01%. Density - approximately 25 lb.cu.ft. Organic matter - 85%. A non-ionic wetting agent should be used. Properties: screen analysis: % retained on stacked screens - 1 mesh = 0.2%, 5 mesh = 36.6%, 8 mesh = 25.7%, 12 mesh = 30.7%, 32 mesh = 5.9%; remainder = 0.9%. (Shall be similar or equal to Wil Gro Life, A-1 Soils "Life Like", Loamex), or "Numex" by John Deere or approved equal.

Type 4 organic soil amendment (hydromulch soil amendment) shall be 'Sarvon' liquid soil conditioner by Butler's Mill, or approved equivalent.

Type 5 organic soil amendment (Mycorrhizal Inoculum) Provide an organic Arbuscular Mycorrhizal Inoculum containing one or more species of mycorrhizae fungi at a minimum rate of 120 propagules per cubic centimeter. Acceptable Mycorrhizal Inoculum Product: "AM120" by Reforestation Technologies International, or approved equal.

212-1.2.5 Mulch. Paragraph (g), ADD the following:

Mulch for this project shall be Type 5 and shall also be free of weeds and leaves. Average dimensions shall be 1" to 3" in length and 1/2" in thickness and naturally colored. Submit two (2) samples for approval by the Resident Engineer prior to installation.

Compost or mulch for use in the engineered soil for the bioswale shall be Type 1, and shall comprise 20% - 30% of the overall mixture. The engineered soil consists of a mixture of sand (40%), compost (20-30%) and topsoil (30-40%) with a minimum infiltration rate of 5"/hour and adequate nutrient content to meet plant growth requirements.

212-1.2.6 Inorganic Soil Amendments. ADD the following:

Soil sulfur. Soil sulfur shall be 99.5% elemental. Sizing on stacked screen shall be approximately: 8 mesh 4.3%; 20 mesh 7.8%; 50 mesh 46.9%; 100 mesh 39.3%; 200 mesh 1.7%.

ADD:

212-1.2.7 Herbicides and Pesticides. Herbicides and pesticides shall be used in their appropriate applications with strict adherence to manufacturers' specifications and instructions.

Pre-emergent herbicide for shrub and groundcover areas (planted from flats) shall be Treflan, Surflan, Eptan, or approved equivalent.

The Contractor shall obtain approval for any and all pesticide and herbicide use in writing from the Resident Engineer. All pesticides and herbicides shall be used in strict adherence to manufacturers' specifications and instructions, and shall be applied only by a licensed applicators.

Post-emergent herbicide for all areas shall be Round Up, Diquat, Montar, or approved equivalent, except for areas where it may contact standing or running water.

Post-emergent herbicide for all areas where herbicide may come in contact with standing or moving water shall be Aquamaster, Rodeo, or approved equal specifically approved for use near water bodies. These herbicides are approved for use within the riparian areas by the City and County of San Diego because it has been determined to be non-toxic to aquatic organisms. Other herbicides shall be approved by the City and County of San Diego prior to use on only the most noxious weeds, and only under the direct supervision of the Resident Engineer.

All herbicides shall be selected for suitability for the specific uses required, and shall be applied by a licensed pesticide applicator.

212-1.3 **Seed.** Second paragraph, ADD the following:

Seed specified as "Scarified" shall be certified in vendor's statement. Legume seeds shall be scarified.

ADD:

212-1.3.1 **Grass Seed.** Seed shall be a blend of 50% pseudo-stoloniferous perennial ryegrass, and 40% Improved Common Bermuda and 10% Kentucky Bluegrass, or approved equal. Seed shall be fresh, clean, and free of weed seed. Seed at a rate of 10 lbs/1,000 square feet.

212-1.4 **Plants.**

212-1.4.1 **General.** DELETE in its entirety and ADD the following:

Contractor shall notify the Resident Engineer a minimum of 48 hours before each plant delivery so the Resident Engineer can schedule a review.

Availability: Within 2 weeks of the start of work, the Contractor shall place orders for all plant material in sufficient time to reserve or grow the plants for the project. No substitutions will be allowed. If plants are not available, the Contractor shall have the specified species contract grown by a reputable native plant nursery such as Las Pilitas, Tree of Life, or Recon, or approved equal. Provide nursery name and resume for review and approval prior to contract growing.

Quality And Size: Plants shall be in accordance with the California State Department of Agriculture Regulations for Nursery Inspections of Rules and Grading. Nursery tags must be submitted to the Landscape Architect. Sizes shall conform to the dimensions indicated on the planting plan. All plants shall be reviewed and approved for acceptable size and quality by Engineer prior to planting.

All plants shall have a growth habit normal to the species and shall be symmetrical, typical for variety and species, sound, healthy, vigorous and free from insect pests, insect eggs, plant diseases, sun scalds, fresh bark abrasions, excessive abrasions, or other objectionable disfigurements.

All plants shall have normal well-developed branch systems, and vigorous and fibrous root systems which are neither root- nor pot-bound and are free of kinked or girdling roots.

Immediately upon award of contract for work in this section, locate and purchase or hold for purchase all trees required. Color photos of all trees shall be submitted to Engineer for approval a minimum of 15 days prior to delivery of the plants to the site. The Engineer reserves the right to reject any plant species upon conducting a physical inspection after delivery to the site.

Quantities: Quantities of all plant materials shall be furnished as needed to complete work as shown on the Drawings.

Inspection of plant materials required by City, County or State authorities, shall be the responsibility of the Contractor, and where necessary, permits or certificates shall have been secured prior to delivery of plans to site. Photos may be submitted by the Contractor for initial review of the plants prior to shipment to the project site.

The Resident Engineer is the sole judge as to acceptability of each plant. Vigorous, healthy, well-proportioned plants are the intent of this specification. Plants which are even moderately "overgrown," or are showing signs of decline or lack of vigor are subject to rejection. The size of the plants will correspond with that normally expected for species and variety of commercially available nursery stock, or as specified in the special conditions or drawings. Plants larger in size than specified may be used with the approval of the Resident Engineer, but the use of larger plants will make no change in contract price. If the use of larger plants is approved, the ball of earth and spread of roots for each plant shall be increased proportionately.

Rejection Or Substitution: The Resident Engineer reserves the right to reject any plant material found to be defective or not in conformance with plans and specifications. Plants shall be subject to inspection and approval or rejection at the project site at any time before or during progress of work, for size, variety, condition, latent defects, and injuries. All plants not conforming to the requirements herein specified shall be considered defective, and such plants, whether in place or not, shall be marked as rejected and immediately removed from the site and replaced with new plants by the Contractor at his expense. Rejected plant material shall be replaced within one week of written notice, unless otherwise approved by the Resident Engineer.

Substitutions will not be permitted except if proof is submitted that any plant specified is not obtainable, then a proposal will be considered for use of the nearest equivalent size or variety and cost. All substitutions are subject to Resident Engineer's written approval.

Right To Changes: The Resident Engineer reserves the right to change the species, variety, and/or sizes of plant material to be furnished, provided that the cost of such plant changes do not exceed the cost of plants in the original bid, and with the provision that the Contractor shall be notified, in writing, at least thirty (30) days before the planting operation has commenced.

212-1.4.2 Trees. ADD the following:

All trees (24" box, 36" box) shall:

- a) Be of the specified type and size as indicated on the Drawings, selected from high quality, well-shaped and proportioned Southern California-grown nursery container stock. Field grown stock grown in climatic regions which are different (as determined by the Resident Engineer) to those conditions found at the project site, shall have been acclimated to a climate similar to their intended locations prior to delivery and shall be accompanied by letter and/or certificate from the nursery that the plant materials are suitable for said locations or they will not be accepted.
- b) Have grown in containers for sufficient time to permit full rooting within the container to bind the soil but not so long as to create a root bound condition. No container plants that have cracked or broken balls of earth, when taken from the container, shall be planted. No plants with damaged roots, broken root balls, or root bound, when taken from the container shall be planted.
- c) Have a main leader branch and not have a co-dominant branching structure, unless the tree is intended to be multi-trunk.
- d) Be free of weeds, native grasses, Bermuda grass, and Kikuyu grass.

212-1.4.3 Shrubs. ADD the following:

- a. Be of the specified type and size as indicated on the Drawings, selected from high quality, well-shaped and proportioned Southern California-grown nursery container stock. Field grown stock grown in climatic regions which are different (as determined by the Resident Engineer) to those conditions found at the project site, shall have been acclimated to a climate similar to their intended locations prior to delivery and shall be accompanied by letter and/or certificate from the nursery that the plant materials are suitable for said locations or they will not be accepted.
- b. Contractor shall assure that shrubs grown in containers for sufficient time to permit full rooting within the container to bind the soil but not so long as to create a root bound condition. No container plants that have cracked or broken balls of earth, when taken from the container, shall be planted. No plants with damaged roots, broken root balls, or root bound, when taken from the container shall be planted.
- c. Shrubs shall be free of weeds, native grasses, Bermuda grass, and Kikuyu grass.
- d. Shrubs shall be full and bushy to ground.
- e. Groundcover plants shall be healthy, vigorous, rooted cuttings grown in flats or 1 gallon cans until transplanting. The soil and spacing of the plants in the container shall ensure the minimum disturbance of the root system at time of transplanting.

212-1.5.3 Tree Stakes. First paragraph, second sentence, REPLACE with the following:

Tree stakes shall be two (2) inch diameter lodge pole pine of lengths required, pointed on end, and minimum 10' in length.

ADD:

212-1.5.4 Tree Ties. Tree ties shall be commercially manufactured of virgin flexible vinyl meeting ASTM-D-412 standards for tensile and elongation strength. Material shall be manufactured with a double back locking configuration and secured with one galvanized nail to prevent slippage. Material shall be ultraviolet resistant. Minimum length shall be twenty (20) inches. Tree ties shall be "Cinch-Tie" by V.I.T., or approved equivalent.

ADD:

212-1.10 Perforated Pipe. Perforated pipe for tree drain: Poly vinyl chloride SDR35 perforated pipe. Perforated pipe shall meet ASTM F-758 and AASHTO M-219. Pipe be supplied with a spun bonded filter sleeve to protect pipe from soil intrusion.

212-2 IRRIGATION SYSTEM MATERIALS.

212-2.1 Pipe and Fittings.

212-2.1.5 Copper Pipe. DELETE in its entirety and SUBSTITUTE with the following:

Copper pipe shall be Type "L" in accordance with ASTM B 88; brass pipe; brass piping shall be I.P.S. red brass; solder: 50/50 lead and tin.

212-2.2 Valves and Valve Boxes.

212-2.2.7 Valve Boxes. ADD the following:

Valve boxes shall be sized accordingly to allow wires in pull boxes to be loose and maintain a three inch (3") clearance from the lid. Sand bedding for valve boxes shall be SE50 plaster or mortar sand.

212-2.2.16 Booster Pump. To the City Supplement, ADD the following:

17. Pump assembly shall be fabricated by Barrett Pumps, System Model No.: IBGA6-3-2-2.5/IP-2.5 (pump model no.: 30GA6-1.25), and shall provide a maximum operating pressure of 110 PSI. Minimum suction pressure shall be 69.0 PSI. System electrical voltage shall be 208 VAC - 10 amps, 3-Phase, 60 Hz frequency. Pump capacity shall be 60 GPM. Pump Total Head (feet) is 110 feet. Pump Horsepower is 3 HP. Pump RPM is 3500 RPM.

All system piping shall be type 304 stainless steel. All fittings shall be stainless, with unions or flanges to allow for system disassembly or major component removal. System shall incorporate an integral full pipe size bypass line with isolation valve to allow for pump removal and repair without disrupting water supply to system.

The pump enclosure shall measure 30D" x 42W" x 30H" and concrete pad dimensions shall be 44" x 56" x 6".

Pump Assembly shall include the following option(s):

(IP-2.5) Where specified in the System Design Parameters, all inlet and discharge connections shall be plumbed to provide access through the base of the provided marine grade enclosure. All electrical conduits shall also be accessible from the bottom of the control panel cabinet.

212-2.4 Sprinkler Equipment. ADD the following:

All materials and equipment used in all irrigation work shall be new and without flaws or defects and of quality and performance as specified. Prior to installation of any irrigation work, the Contractor shall submit, for approval by the Engineer, five copies, minimum, of a list of all materials and equipment (s)he proposes to use. Should the Contractor propose to use materials or equipment other than those listed as approved, (s)he shall submit in writing to the Engineer a request to deviate from the approved materials list. Samples of the materials or equipment shall accompany the request to assist the evaluation of the proposal.

Anti-drain valves shall be installed as indicated on plans. The anti-drain valve shall be the same diameter size as the riser and shall be integrated into the riser assembly (under each head). Valve shall be "Valcon ADV-XS", Hunter, or an approved equivalent.

212-3 ELECTRICAL MATERIALS.

212-3.2 Conduit and Conductors.

212-3.2.1 Conduit. Revise section to read as follows:

Conduit shall be galvanized steel or schedule 40 PVC conforming to the applicable provisions of section 209-3.5.

ADD:

212-3.2.2.4 Master Valve Conductors. Master valve conductors shall be compliant with paragraph 212-3.2.2. Master valve conductor shall be installed below grade adjacent to flow sensor data cable conduit.

ADD:

212-3.2.2.5 Flow Sensor Data Cable. Flow Sensor data cable shall be two 12 AWG double-shielded data cable for use in relaying communications between flow sensor and controller. Flow sensor cable shall be UL listed as Type TC and meet the requirements of ICEA/NEMA, 600-V control cable, 90° C, and the following:

- a) The cable shall consist of two No. 16, minimum, stranded copper conductors. Each conductor shall be insulated with 0.48 mm, minimum nominal thickness, color coded, polypropylene or polyethylene material. Color coding shall distinguish each conductor.
- b) The shield shall be either tinned copper braid or aluminized polyester film with a nominal 20 percent overlap. Where the film is used, a No. 18 or larger, stranded,

tinned, copper drain wire shall be placed between the insulated conductors and the shield and in contact with the conductive surface of the shield.

- c) The jacket shall be black polyvinyl chloride with minimum ratings of 600-V and 90°C and a minimum nominal thickness of 1.25°mm. The cable jacket shall be marked with the manufacturer's name, or trademark, insulation type designation, number of conductors and conductor size, and voltage and temperature ratings.
- d) The finished outside diameter of the cable shall not exceed 0.35 inches.
- e) The capacitance, as measured between any conductor and the other conductors and the shield, shall not exceed 88 pf per meter at 1000 Hz.
- f) The cable run between flow sensor and the irrigation controller shall be continuous without splices.

Flow sensor data cable shall be installed in 3/4" PVC conduit from controller to flow sensor.

SECTION 213 - GEOSYNTHETICS

ADD:

213-3 FILTER FABRIC (Soil Separation).

Contractor shall provide filter fabric for soil separation purposes around all drain rock to separate drain rock from all other materials, such as gravel or soils. Filter fabric shall be a needle-punched, heat-bonded, non-woven polypropylene, UV resistant, permeable geotextile fabric with a flow rate of 110 gpm. Puncture strength shall be ASTM D 4833: 95lbs. Grab Tensile strength shall be ASTM D 4632 160 lbs. Fabric shall be Mirafi160N, or approved equal, as approved by the Resident Engineer. Apply fabric to wrap all perforated drain lines and drainage sumps, as indicated on plans and details. See Section 300-10 for installation.

SECTION 217 - DETECTABLE WARNING TILES (DWT)

217-1.1 General. ADD the following:

- 3. Detectable warning surfaces shall be in conformance with CBC Section 1133B.8.5. Color shall be yellow for detectable warning surface shall conform to Color 33538 per Federal Standard No. 595B. CBC Sections 1133B.8.5 and 1121 B.3.1, Item 8(a). Provide a minimum of 5-year warranty per DSA Bulletin 10/31/2002, revised 04/09/2008.

ADD: SECTION 218 – SITE FURNISHINGS

218-1 ROUND PICNIC TABLE.

Round picnic tables shall be furnished and installed at locations shown on the Contract Drawings. Round picnic tables shall be made of recycled materials, and manufactured in the USA. Round picnic tables shall be the following:

Model No.: S-5-PT-7-E-SK tops–LSB sides, 5’ Round precast concrete table with two bench seats and ADA accessibility; or approved equal.
Color: ‘Tan’ integral colored concrete
Finish: Light Sand Blast: vertical surfaces; Smooth: horizontal surfaces;
Sealer: No manufacturer sealer applied
Ant-Graffiti: Field applied per Section 210 ‘Paint and Protective Coatings’
Attachment: Epoxy-mounted in place
Manufacturer: Dura Art Stone
1785 Locust St # 11
Pasadena, CA 91106-1614
www.duraartstone.com

218-2 TRASH RECEPTACLE.

Trash receptacles shall be precast concrete units with metal top, TGIC powder-coat ‘Blue’ standard finish, and high-density 36-gallon plastic inner liner, or approved equivalent. Trash receptacles shall be made of 100% recycled materials and manufactured in the USA. Provide shop drawings and paint color for approval. Attachment shall comply with Manufacturer’s recommendations. Installations shall be surface mounted and vandal-proof.

Model No.: TR27DSQH/K-LSB, Precast concrete trash receptacle with metal top, or approved equal.
Color: ‘Tan’ integral colored concrete
Finish: Heavy Sand Blast
Sealer: No manufacturer sealer applied
Ant-Graffiti: Field applied per Section 210 ‘Paint and Protective Coatings’
Attachment: Surface-mounted – epoxy in place
Manufacturer: USA Concrete (San Diego Precast)
2735 Cactus Road
Santee, CA 92154
www.us-concreteprecast.com

218-3 PRECAST CONCRETE DRINKING FOUNTAIN.

218-3.1 General. Drinking Fountain: Haws Model 3150 FR, with sand trap (#6635), or an approved equal, is a “Hi-Lo”, dual height, vandal-resistant, square vibrecast-reinforced concrete pedestal drinking fountain with heavy sandblast finish and color #1266 - ‘Cool Gray’ by L.M. Scofield Company. This model shall contain the following features: 18 gauge type 304 SS bowls with No. 7 hi-polished finish, forged lead-free pcp brass bubblers with concrete bubbler guards, pcp brass waste strainers, freeze-resistant push button operated pneumatic valves, 60 micron in-line strainers, SS access plates with vandal-resistant screws, 1-1/2” PVC slip single waste outlet, ADA compliant, ANSI/NSF Std. 61/9 and CSA certified. The drinking fountain shall be treated with a manufacturer applied anti-graffiti coating or per Section 210-6 ‘Anti-Graffiti Coating’. The entire exposed portion of the picnic table and bench shall be treated with the specified anti-graffiti coating per section 310-6.

- 218-3.2 Concrete Valve Box.** Concrete Valve Box. Provide a 21"x15-1/2"x12" concrete valve box with locking lid for freeze-resistant apparatus for each drinking fountain. Valve box shall be installed in planting areas nearest the drinking fountain, square with the concrete edge, in location indicated on the plans. Lid shall be marked with 'WATER' on lid. Contractor may propose alternative location for valve box, but only upon written approval by the Resident Engineer. Install per manufacturer's recommendations.
- 218-3.3 Water Supply Line.** Contractor shall provide and install an extension of the supply line, from potable water line to new drinking fountain location. Contractor shall provide all supply line piping and fittings, drainage line piping and fittings, drain rock, soil separation fabric and other materials as listed on the drawing in locations indicated. Provide Type K copper piping and fittings from existing supply line to new drinking fountain. All work shall be installed in compliance with the local plumbing codes and building permit requirements.
- 218-3.4 Drainage Sump.** Contractor shall provide a drainage sump in location as indicated on the plan. Sump shall be 2'-0" deep, 2'-0" wide, and 6'-0" long. Soil coverage above the sump shall vary depending on the length of run of the pipe, but minimally 18" in depth if traversing through the planting area.
- 218-4 PLAYER'S BENCH.**
- The player's bench shall be prefabricated 21'-0" long, anodized aluminum bench with back, and galvanized steel frame, by PW model #1103-21-M1, permanent-mount aluminum bench, or approved equal.
- 218-6 BASEBALL BASES AND HOME PLATE.**
- Bases shall be constructed from white rubber and shall be a break-away type to reduce risk of injury. Bases shall be PW Athletic # 8503-00 (complete set of three bases with ground anchors), and 8500-00 home plate with ground anchor, and 3 sets (9 total) Plugs for Ground Anchors (PW Model 8502-02), or approved equal. Footing for ground anchors shall consist of 530-C-2500 concrete sized as recommended by the manufacturer.
- 218-7 PITCHER'S PLATE.**
- Pitcher's plate shall be constructed from white rubber and shall be installed as a stationary unit. Pitcher's place shall be PW Athletic # 8503-00 (complete with ground anchor), or approved equal. Footing for pitcher's plate shall consist of 530-C-2500 concrete sized as recommended by the manufacturer.
- 218-8 BACKSTOPS.**
- 218-8.1 Small Backstop.** Small backstop shall be a 10' high, 28' wide, with 14' wide backstop, 7' deep, and shall comply with the dimensions as indicated on the drawings and with Section 206-6 'Chain Link Fence'. All surfaces shall be galvanized coated for a smooth to the touch finish.

218-8.2 Large Backstop. Large backstop shall be a 20' high, 27' wide, 20' deep, and shall comply with the dimensions as indicated on the drawings and with Section 206-6 'Chain Link Fence'. All surfaces shall be galvanized coated for a smooth to the touch finish.

218-9 PREFABRICATED RESTROOM BUILDING.

The prefabricated restroom building shall be a manufactured packaged assembly complete containing all components, special tools and instructions. The restroom building shall be Restroom Facilities Limited model 'B312 – The Nevadan' (DSA PC#02-112541) restroom building with separate men's and women's rooms, and mechanical room building package, or an approved equal. Building shall be complete and fully operable and include all standard items for this building model, including smooth face block painted 'beige' and trim color to match existing Recreation Center structure (Green) and stainless steel interior fixtures. Prefabricated restroom building shall be provided with all sewer, electrical and water utility connections. Prefabricated restroom building shall be ADA compliant for all interior components. Restroom building shall include the following:

218-9.1 Floor / Foundation.

- a) The floor/foundation for the modular restroom shall be a prefabricated 8-inch thick monolithic 3,000 psi concrete mat slab shipped integral with the restroom building. The slab reinforcing shall be #3 and #5 grade 60 deformed rebar, placed and tied per the structural engineered drawings continuously throughout. #3 grade 60 vertical rebar for CMU walls shall be incorporated into the slab reinforcing rebar to a minimum length of 18", bent to vertical 90 degrees and extended above the concrete slab a minimum of 24". Doweling of the vertical CMU reinforcing steel into the mat slab is not permitted. The slab shall be designed to allow relocation of the slab and building intact at any future date with built-in lifting hardware.
- b) Concrete shall cure for a minimum of 14 days before moving and have a minimum 28-day compressive strength of 3,000 psi.
- c) The floor/foundation shall contain a concrete encased electrode consisting of 20' of bare copper conductor (No. 4 AWG) located near the bottom of the foundation, and encased in a minimum of 2" of concrete. Stub the ground conductor up through the foundation near the panel board location.
- d) A 6-mil thick vapor and moisture barrier shall be placed on the leveled building pad prior to setting of the building. Barrier shall extend at least 12" beyond building footprint.

218-9.2 Wall Systems.

- a) Walls to 7'-4" above finish floor (AFF) shall be hollow load-bearing concrete masonry units and shall conform to UBC Standard 21-4, Grade N, and ASTM C-90. All units shall be medium weight. Wall system to be solid grout filled and to receive steel reinforcement throughout.
- b) Walls above 7'-4" shall be fabricated with galvanized 16-gauge, welded in place, structural steel studs with top and bottom channels. Bottom channel to

be welded to steel wall cap. Each weld shall be painted with a minimum of three coats of rust inhibiting paint.

218-9.3 Interior Wall Finishes.

- a) Restroom floors to receive a two coat 100% solids modified epoxy floor coating system at 30-50 mils in thickness. To have a compressive strength of 15,000 psi per ASTM C579, flexural strength of 17,000 psi per ASTM D790, tensile strength of 11,300 psi per ASTM D307, Hardness Shore D of 82-85 per ASTM D2240 and a Taber Abrasion per ASTM D4060 of loss/1000 cycles = 25mg using CS 17 wheels. Owner to make color selection from manufacturer's provided color chart.
- b) Chase floor to receive a light broom finish with no more than a 0.60 coefficient of friction. To receive a high solids, non-yellowing curing and sealing compound.
- c) Restroom walls to 7'-4" AFF to be CMU block, precision finish. To receive one coat of prime & fill acrylic block filler, one coat of 100% acrylic primer and two finish coats of 100% acrylic semigloss enamel paint. Color to be White.
- d) Restroom walls above 7'-4" and ceiling to be Class "A" rated fiberglass reinforced concrete (FRC) panels. Panels to be blind fastened, filled and sanded, with a light texture finish. To receive one coat of 100% acrylic primer and two coats of 100% acrylic semi-gloss enamel. Color of paint to be White.
- e) Chase walls to 7'-4" AFF to be CMU block, precision finish. To receive one coat of 100% acrylic primer. Color to be Gray.
- f) Chase walls above 7'-4" and ceiling to be 5/8" structural rated, exterior grade OSB glued and screwed to gable wall framing. To receive one coat of 100% acrylic primer. Color to be Gray.

218-9.4 Doors.

- a) Restroom and Chase doors to be 1¾" thick, full-flush, 16-gauge steel face with stiffening ribs, honeycomb-core, full edge seam welded with sealed tops.
- b) Door jambs shall be 14-gauge galvanized steel.
- c) Doors and jambs to receive one coat of DTM acrylic urethane gray primer and two coats of DTM acrylic urethane tint base. Color of doors and jambs to be by Owner.
- d) Hinges for all pass-through doors shall be Roton continuous geared fully concealed leaf to ANSI/BHMA A156.26, aluminum; manufactured of 3 interlocking aluminum extrusions. (2 hinge leafs and 1 cover channel), door leaf and jamb leaf geared together for entire hinge length and joined by cover channel.
- e) Provide roof overhangs at exterior doors or recess entries for weather protection.
- f) Slope concrete walkways away from doors and set thresholds in mastics for exterior doorways.

- g) Door hardware is as follows (or equal):

Restroom Doors – (Single User)

Roton 780-224HD hinge

Best #45H7T14J626SH dormitory function mortise leverlock, key/button

LCN 1461 CUSH door closer

Ives 8400, 10” high stainless steel kick plate (inside only)

Chase Door – (Mechanical Chase)

Roton 780-224HD hinge

Best #83T7MSTK626SH deadbolt, key/thumb turn

Ives 8111-5 Pull handle

Wright Door Retainer chain stop

218-9.5 Additional City of San Diego Door Specifications.

218-9.5.1 Hardware.

- a) Mortise locks will be ANSI 156.3 Mortise Series 1000, Grade 1 Operational and Grade 1 Security and carry the approval of Federal Bureau of Prisons. Locks will meet UL 437 requirements.
- b) Mortise locks will carry a standard 5 year warranty.
- c) Locks will have separate springs which will be internal to the lock case. Lever return springs will operate interior and exterior hubs independently. No springs will be allowed outside of door or under escutcheon or rose.
- d) Hubs will have roller bearing assembly.
- e) All strikes will have a curved lip strike.
- f) Deadbolts will be solid stainless steel (without internal riveted actuator), when deadbolt is extended 1”, at least 2” will remain in the lock case.
- g) All levers will be cast solid levers, hollow levers will not be allowed.
- h) Cylindrical locksets may be used only on interior non-high-traffic openings. Locks will have a replaceable sheer lug which when broken will disable the lever. Clutch mechanisms will not be allowed. Locks will have 7-pin interchangeable cores. Cylindrical locks are not to be used on exterior doors.
- i) All locks and hardware should be 626 finish (26D). Bright chromed or painted finishes should not be used.
- j) All doors and hardware must meet Americans with Disabilities Act and Title 24.
- k) Approved manufacturers are Best Lock or Folger Adams with Best Lock core.
- l) Panic exit devices will be Von Duprin 99, Precision Apex Series or Dorma and have Best cylinders.

- m) Closers will be Dorma 8900 or Norton 7500 Series or Sargent 351 or approved equal. All closers to have back check and be field adjusted to not more than 5lb. opening force. Closers will be through-bolt to door jamb if possible.
- n) Hinges will be Stanley, McKinney or Hager. All hinges to be ball bearing type 630 finish. Exterior doors that swing out will have NRP hinges. High traffic doors will be continuous type 'Roton'.
- o) Doors in the following locations will have locks which are ANSI Series 1000 Grade 1 Security and Grade 1 Operational. Locks will meet UL437 requirements.
 - 1. Rooms with narcotics
 - 2. Rooms that contain an armory
 - 3. Exterior doors for Police facilities
 - 4. Exterior doors for Court facilities
 - 5. Doors to Judges chambers
 - 6. Any exterior door which could be in a remote location or subject to high vandalism

218-9.5.2 Keys and Keying.

- a) All cylinders will be Best 7-pin, interchangeable core and keyed into an existing factory-registered Grand Master Key System. All seven pins to be operational.
- b) Best Locks to furnish keys and permanent cores to City Lock shop for final installation.
- c) Temporary cores (construction cores) will be installed by Contractor for security purposes. Temporary cores will be keyed alike and interchangeable with Best cores. Cores to be provided by manufacturer.
- d) Contractor will provide to the City Lock shop copies of Control key and Operating key upon completion.
- e) All keys and cores will have visual key control.
- f) All keys will be stamped "Do Not Duplicate".
- g) If applicable, the Electric Meter Room will have S.D.G. & E. lock installed. The cylinder to be keyed to Schlage key way VTQP AA-10. Three keys are provided with lock. All keys are to be turned over to the City of San Diego lock shop at completion of the project. The contractor will obtain lock from any contracted S.D.G. & E. locksmith for installation.

218-9.6 Roof.

- a) Roof structure to be 5/8” exterior grade structural OSB (coated with Eco Red Shield preservative which is a proprietary broad spectrum anti-fungal, mold and termite blend with fire inhibiting chemicals. Red Shield is an approved product treatment through testing in accordance with ICCES Acceptance Criteria AC433 demonstrating full compliance as stated with an Engineering Services Report ESR-3255) over 6”, 16-gauge galvanized “C” channel on 16” centers, nominal. Perimeter wall caps to be 3/16” tube steel anchored to block walls with 20” threaded rod on 24” centers. All rafter to beam connections to be welded. Wall cap to receive one coat of DTM acrylic urethane gray primer and two coats of DTM acrylic urethane tint base. Owner to make color selection from manufacturer’s provided color chart.
- b) Roof finish to be Metal Sales Image II or equal 26-gauge standing seam metal panels over 30lb. felt paper. Owner to make color selection from manufacturer’s provided color chart.
- c) Rake and fascia trim to be 24 gauge galvanized metal. To receive one coat of DTM acrylic urethane gray primer and two coats of DTM acrylic urethane tint base. Color selected from manufacturer’s provided color chart.

218-9.7 Exterior Finishes.

- a) Exterior of block to be split face. To receive two coats of exterior grade industrial semi-gloss paint over two coats of exterior grade industrial primer over two coats of manufacturer’s recommended block filler. Owner to make color selection from manufacturer’s provided color chart.
- b) Exterior finish above 7’-4” to be fiber reinforced cement stucco board. To receive one coat of 100% acrylic primer and two coats of 100% acrylic semi-gloss enamel. Color selected from manufacturer’s provided color chart.

218-9.8 Ventilation.

- a) Vent screens shall be 1/8” thick 9-gauge expanded ¾”x1¼”, type #304 stainless steel, in a flattened de-burred pattern.

218-9.9 Accessories and Signage.

- a) All wall mounted accessories shall be shall be installed with stainless steel tamper-resistant screws.
- b) Accessories are as follows (or equal):

| | |
|----------------------------------|------------------|
| 36” Stainless Steel Grab Bar | Bobrick B6806.36 |
| 48” Stainless Steel Grab Bar | Bobrick B6806.48 |
| Stainless Steel 3-Roll TP holder | Royce Rolls TP-3 |

- c) Signage to be in compliance with California Title 24 and ADA for restroom entrances.

218-9.10 Plumbing.

- a) Plumbing drain, waste, and vent piping shall be schedule 40 PVC with solvent welded connections. All vents through the roof shall be cast iron and capped.
- b) Water lines shall be Type L copper above ground and Type K copper below ground. Water supply in building shall have a built-in valve combo including a pressure-reducing valve to 125 psi, an in-line 10-micron filter, and two 125 psi pressure gauges.
- c) Incoming water service shall be a 1-1/2" line, 50 gpm and 60psi minimums.
- d) Each fixture shall be isolated with a ball valve or plumbing fixture flush valve. All flush valves and P-traps shall be concealed in chase.
- e) Plumbing fixtures shall be stainless steel as follows (or equal):
Water Closet Acorn Dura-Ware #1675-W1-9-ADA-GW-HS
Flush Valve Royal 143-1-6GPF
Urinal Acorn 2158
Flush Valve Royal 195-1.0GPF
Lavatory w/Meter Faucet Acorn Penal-Ware #1652-LF-3-M
- f) A single hose bibb shall be in the plumbing chase and shall be installed with a vacuum breaker, to code. Hose bibb to be Woodford 24 - 3/4" or equal.
- g) Floors shall drain to an integral floor drain with trap primers. Floor drains to be Zurn Z415-90-2NH w/ 5" B strainer or equal.

218-9.11 Electrical.

218-9.11.1 PVC.

- a) All conduits in the ground will be schedule 40 PVC, at least 3/4" inside diameter.
- b) All PVC will be buried below ground level and never be in a concrete slab or concrete floor.
- c) All stub-ups in PVC will be changed to EMT in walls. Exceptions are outside block walls – can be PVC. No flexible conduit will be used.

218-9.11.2 EMT Conduit.

- a) All wiring inside the building shall be run in EMT conduit.

- b) All EMT connectors, couplings, and other fittings will be non-cast steel compression type.
- c) No BX or MC cables allowed.

218-9.11.3 Rigid Conduit.

- a) All conduit exposed to salt air to be PVC coated.
- b) All conduit exposed below 4 feet of finish grade walls.

218-9.11.4 Flexible Steel Conduit.

- a) Only on motor connection and fixture tails, not over 6 feet in length.

218-9.11.5 Boxes.

- a) Any exposed wiring device box will be steel or cast iron only. No cast aluminum.
- b) All light fixture junction boxes will be steel or cast iron only. No cast aluminum.
- c) All outside outlets will be in a recessed stainless steel box with a flush, lockable cover and a 20-amp GFI receptacle.
- d) Inside wiring device boxes and junction boxes will be at least 4" square by 1-1/8" deep.
- e) Electrical, phone, and data floor boxes will be brass type (RFB style Walker) with tamper-proof screw cap only. All brass covers will be flush with the floor. Floor monuments are not Electrical acceptable.
- f) Flat wiring will not be used.

218-9.11.6 Wire.

- a) All wiring will be stranded, copper THHN type, including all #12 AW wire.
- b) Minimum wiring size will be #12 AWC stranded. (Exception – wiring for control units will be #14 AWC stranded wire) No solid wire.
- c) One neutral for every one circuit pulled. No sharing on neutral wires.

218-9.11.7 Marking and Nameplates.

- a) Name plates: Furnish and install a minimum size of 1" high and 3" wide by 3/32" thick matte black (for normal power) and red (for emergency power) laminated phenolic nameplates with 1/4" white characters engraved in the plastic for all items of electrical equipment including, but not limited to switchboards, panel boards, automatic transfer switches, motor control centers, feeder circuit breakers, relays, time switches, disconnect switches, exposed pull or junction boxes, and all control equipment. Name plates will be attached with (2)

cadmium-plated screws. Adhesive attachment will not be acceptable. Punch strip tape type name plates with card holders in any form are prohibited.

- b) Provide wire marker on each conductor in electrical panel pull box, outlet, and junction box. This includes all disconnects and connections. If more than one neutral conductor is present, mark each related circuit and panel number.
- c) Label outside of all cover plates of wiring devices and junction boxes with circuit and panel number. Each branch circuit device cover plate will be labeled (engraved or silk screen) to indicate the branch circuit and panel number. Devices will include, but not be limited to, the following: toggle switches, dimmer switches and receptacles.

218-9.11.8 Grounding.

- a) All raceways will include a full size green insulated ground wire terminated at each outlet box, device enclosure, etc. and connected back at the panel boards, switchboard or cabinet on the appropriate ground bus.
- b) The green insulated ground (bond) wire will be spliced together within the outlet box. A green insulated bonding jumper will be provided from the splice to the box body. Attachment to the box body will be provided using a tapped #10-32 x 3/8" screw minimum. A green insulated bonding jumper will be provided from the splice to the receptacle ground screw even with self grounding receptacles.
- c) Building shall be fitted with integral cast in-ground wire(s) to code, a buried secondary ground rod to code, and a lightning rod properly grounded.

218-9.11.9 Devices and Cover Plates.

- a) Wall switches – 20A, 120v/277v, Specify:
 - 1. Hubbell #1221-G
 - 2. Bryant #1221-G
 - 3. P&S #1221-G
- b) Duplex Receptacles – 15A and 20A, 120v/277v, Specify:
 - 1. Hubbell: (20 Amp) #5362
 - 2. Bryant: (20 Amp) #5362
 - 3. P&S: (20 Amp) #5362ALA
 - 4. Leviton: (20Amp) #16362
- c) All devices shall have clamp style side/back connections for stranded wire only.
- d) All receptacles and switches on emergency power will be RED.

218-9.11.10 Hand Dryers.

- a) Install at least one hand dryer 2000 watt in each restroom. City standard is the World Hand Dryer. When a pipe chase is available, use Fastaire HD03 thru-wall units.

218-9.11.11 Exit Signs.

- a) If required, all exit signs will be Atomic 20-year life with polycarbonate lens. City standard is Permex exit sign.
- b) L.E.D. exit signs are acceptable, however, life-expectancy of the battery is only 3 to 5 years.

218-9.11.12 Emergency Battery Systems.

- a) If required, batteries shall be 10-year full warranty (not to be pro-rated) or independent battery pack. (i.e. Dual-light).

218-9.11.13 Low Voltage System for Title 24.

- a) Avoid low voltage programmable systems (i.e., Malcolm X. Library). If a system is specified, in large rooms over 5,000 square feet only. In all other areas use normal switching. Use Tork time clock 7200KL. All software manuals and training to program the system must be given to Facilities Division Electrician no later than on final walk-thru. Brand name system shall be Neel.

218-9.11.14 Light Fixtures.

- a) Minimize the number of decorative and display light fixtures where possible.
- b) Light fixtures shall be high quality, long lasting, brand name, Energy Efficient and made in the USA, with easy to replace lamps. The number of different types of fixtures must be kept to a minimum and the ease of re-lamping is mandatory.
- c) Use standard 4 foot fluorescent fixtures as a standard.
- d) Metal Halide, indirect light fixtures may be used in high ceiling areas.
- e) Recessed floor cans with P.L. lamps acceptable in restrooms.
- f) Do not use low voltage light fixtures.

218-9.11.15 Outside Light Fixtures.

- a) All outside light fixtures will be 18 watt LED by Kenall MS11EL-PP-DB-18L40K-1-DV or equal in a marine grade die-cast aluminum base with integral heat sinks and a die-cut, closed cell EPDM self adhesive gasket sealing baseplate to mounting surface. Lens to be UV stabilized, high impact resistant, virgin injection molded pearlescent polycarbonate. To be wall mounted.

- b) Install light fixtures for library sign, book drop and all outside door openings, as applicable.
- c) Wall mounted light fixtures shall be used for general outside area for security and safety.
- d) Avoid low voltage light fixtures.
- e) Heavy duty mounting is required for all outside light fixtures.
- f) Exterior wall mounted light fixtures shall be mounted on the building.
- g) All exterior building lighting will have separate circuits from exterior pole lighting.

218-9.11.16 Interior Light Fixtures.

- a) All restroom light fixtures will be 18 watt LED by Kenall MS11EL-PP-MW-18L40K-1-DV or equal in a marine grade die-cast aluminum base with integral heat sinks and a die-cut, closed cell EPDM self adhesive gasket sealing baseplate to mounting surface. Lens to be UV stabilized, high impact resistant, virgin injection molded pearlescent polycarbonate. To be wall mounted.
- b) Plumbing Chase light will be a Kenall ES5-48-50L40K-DCC-DV-2H-PP or equal, 48" long 50 watt LED in a one-piece 20-gauge CRS housing with welded ends, UV-stabilized pearlescent polycarbonate lens and a 4000K color temperature. To be controlled by a single pole, 20 amp, toggle switch.

218-9.11.17 Time Clocks.

- a) All time clocks will be City Standard Tork 7200ZL. Astonomic, 40 amp contact.
- b) Lighting contactor will be necessary if more than 2 circuits for outside lights. Install hand, off, automatic switch for testing during the day for outside lights.
- c) Do not install programmable time clock (problem with different clocks).
- d) Interior lights will be on lighting contactor controlled by separate time clocks or switches.

218-9.11.18 Lamps.

- a) Provide a spare case of lamps for every type used, including M.H., incandescent, H.P.S., L.P.S. and fluorescent lamps. Provide no later than final walk thru.
- b) Avoid incandescent lamp.
- c) Low pressure sodium lamps are used only in parking lot lights.
- d) Standardize with 4 foot fluorescent energy 35 watt cool white T-8 lamps.

- e) Use brand name electronic ballast, 5 year warranty.
- f) Minimize the number of decorative and display lamps.
- g) Provide fixture location that allows easy lamp replacement.
- h) Brand name lamps are a required.
- i) Outside lamps will be high pressure sodium, (general lighting) fluorescent (signs) and metal halide (for security).

218-9.11.19 Conduits, Raceways and Boxes.

- a) All flexible conduits will have a green ground wire. It will only be used for motor connections, fixture tails, or used in existing walls (6 inches or less). Non-metallic or seal-tite will be used in damp locations and machinery rooms.
- b) Conduit run above suspended ceilings will be supported from the building structure independently and will be run with sufficient clearance from the ceiling system to permit the tiles to be removed and to allow full access to the space above.
- c) Roof top conduits (rigid steel) will be neatly grouped and installed parallel to the building lines. Support conduit on minimum 2x4 redwood sleepers at minimum 5-foot spacing.
- d) Home runs will be a minimum of 3/4-inch conduit. 1/2-inch can be used to supply a single termination (e.g., conduit going from switch box to single light fixture).
- e) Junction and switch boxes shall be a minimum of 4-inch square in sized and a minimum of 2-5/8 inches deep.

218-9.11.20 Wires and Conductors.

- a) All insulation in AWG sizes 10 and below will be impregnated with color according to the following:

| | |
|---------------|---------------|
| 480/277 Volts | 208/120 Volts |
| Phase "A" | Brown Black |
| Phase "B" | Orange Red |
| Phase "C" | Yellow Blue |
| Neutral Gray | White |
| Ground Green | Green |
- b) Where color other than black is not an integral part of insulation, use 3M No. 35 tapes in the same color code to identify both ends of conductors No. 8 and larger. Use other colors as required to identify control or other special circuits. Ground conductor will have green insulation for I/O or smaller conductors, green tapes on other colors of insulation are NOT acceptable.

218-9.11.21 Light Fixtures Commonly Used by The City of San Diego.

- a) Indoor / Outdoor
 - 1. Compact fluorescent – Eclipse 26 watt CMK series.
 - 2. Ceiling mount fluorescent – Kenall S1212LPMW132MB120.
- b) Outdoor Security Lighting
 - 1. High pressure sodium (HPS) – Kenall, “Millenium” 50 watt, minimum.
 - 2. High pressure sodium (HPS) – Kenall, 50 watt, minimum.

218-9.11.22 Switchgear and Electrical Panels.

- a) A single panel board (125 amp, 120/240V, 1-phase, 3-wire, 18-circuit, NEMA type 1. Panel board to be Siemens P1A18ML125ATS or equal. All breakers shall be bolt-on type, minimum 10,000 A.I.C. RMS (Sym) at 120/240 vac.
 - 1. Supply 10% spare breaker space in all panels and copper buss.
 - 2. Provide 10% more ampacity for electric panel above calculated load requirements.
 - 3. Panel will have bolt-on breaker, copper buss, and bull size neutral-ground bar.
 - 4. Provide on ¾ inch conduit for each three spares or spaces in all flush mounted power or lighting panelboards. Route conduit to accessible space above the ceiling.
 - 5. Main switch and all circuit breakers will be supplied with a name plate on or adjacent to each device as specified under “Marking and Name Plates”.
 - 6. Fusible Switches: (heavy duty) switches, with fuses of classes and current ratings indicated. See section Fuses for specifications. Where current limiting fuses are indicated, provide switches with non-interchangeable feature suitable only for current limiting type fuses. Each fusible disconnect switch will be equipped with a blown fuse indicator module.

218-9.11.23 Fuses.

- a) Fuses will be class ARK rejection type.
- b) Fuses serving motor loads will be dual element with a minimum time delay of 10 seconds at 500 percent rating. Fuses will be current limiting time delay type with interrupting capacity of 200,000 ampere RMS symmetrical minimum.

- c) Fuses will be Bussman or Gould Alow peak, only.
- d) Provide spare fuses in the amount of ten percent of each size and type installed, but not less than three; delivered to the Owner upon final acceptance of the project. Provide and install fuse cabinet in the electrical room for storing these extra fuses.

ADD: SECTION 218 – SITE FURNISHINGS

218-10 CONCRETE WHEEL STOPS.

Concrete wheel Stops shall be a commercial product designed for stopping cars at parking spaces. Wheel stops shall be constructed of precast concrete, minimum 2500 PSI, with steel rebar reinforcement. Dimensions shall be 6’ long, 6”high, approximately 6 to 8”wide and have a tapered, four sided cross-section. All edges shall be smooth and eased with a radius to eliminate sharp edges. Two holes shall be provided through the wheel stop to accept " diameter 1/2” re-bar stakes.

SECTION 300 – EARTHWORK

300-1 CLEARING AND GRUBBING.

300-1.1 General. ADD the following:

Clearing and grubbing shall include the removal, relocation, adjusting, or salvaging of all facilities so indicated on the plans.

In addition, clearing and grubbing shall include, but not limited to the following items as shown on the plans or specified in the Specifications:

- a) Deleterious materials resulting from clearing and grubbing operations shall be hauled away and disposed of legally at a site obtained by the Contractor.
- b) Provide continuous pedestrian access within the project area, and as directed by the Resident Engineer.
- c) Minor grading for low point drainage swales in turf areas for drainage control.
- d) Removal and disposal of pipe, ditches, protection posts, guardrail, inlets, trees, stairways, and any additional items not specifically mentioned which may be found within the work limits.
- e) Furnishing and applying water.
- f) Clean-up of project upon completion of work.
- g) Adjustment to grade of miscellaneous items such as drainage inlets, utility boxes, valves, manholes, pullboxes, interfering portions of storm drain pipes, posts.
- h) The Contractor shall remove and transport debris and rubbish in a manner that will prevent spillage on streets or adjacent areas. Clean-up of spillage will be at the Contractor's expense.

- i) Clearing and grubbing shall also include mobilization. Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, materials and incidentals to the project site necessary for work on the project and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site.

Any asphalt pavement material removed during clearing operations should be properly disposed at an approved off-site facility. Concrete fragments which are free of reinforcing steel may be placed in fills, provided they are placed in accordance with these specifications.

300-1.3 REMOVAL AND DISPOSAL OF MATERIALS.

300-1.3.2 Requirements. DELETE (a) in its entirety and SUBSTITUTE with the following:

- (a) Bituminous pavement shall be cut and removed in such a manner so as not to tear, bulge or displace adjacent paving by use of sawcutting, rockwheel, jackhammer or milling machine. Wheel type pressure cutters and drop hammer cutters will not be permitted for final edge cut. Sawcutting of edges to be joined is required. Where only the surface of existing bituminous pavement is to be removed, the method of removal shall be approved by the Engineer, and a minimum laying depth of 25 mm (1 inch) of new pavement material shall be provided at the join line. Where bituminous pavement adjoins a trench, the edges adjacent to the trench shall be trimmed to neat straight lines before resurfacing to ensure that all areas to be resurfaced are accessible to the rollers used to compact the sub-grade or paving materials.

ADD the following:

- f) Miscellaneous materials: Buried pavements and other materials, old subsurface pavements and other materials such as concrete planters, and other materials encountered under existing pavements, which are within designated excavation areas on the demolition plans shall be removed.
- g) The work includes demolition of removal (unclassified demolition) of all materials and facilities indicated or specified. Do not begin demolition until authorization is received from the Resident Engineer. Remove rubbish and debris daily, unless otherwise directed. Store materials that cannot be removed daily in areas specified by the Resident Engineer.
- h) Dust control: The Contractor shall take appropriate action to check the spread of dust to avoid the creation of a nuisance in the surrounding area. Do not use water if it results in hazardous or objectionable conditions, such as flooding, or pollution. Comply with all dust regulations imposed by local air pollution agencies.
- i) Protection: The Contractor shall protect existing work which is to remain in place, that is to be re-used, or which is to remain the property of Owner by temporary covers, shoring, bracing, and supports. Items which are to remain or are to be salvaged and which are damaged during performance of work shall be repaired to their original condition or replaced with new by the Contractor at no

additional cost to Owner. The Contractor shall protect all services and utilities which are to remain. Where removal of existing utilities and pavement is specified or indicated, provide approved barricades, temporary covering of exposed areas, and temporary services or connections for electrical utilities.

- j) Personnel: Where pedestrian and driver safety is endangered in the area of removal work, use traffic barricades with flashing lights. Notify the Resident Engineer prior to beginning any such work.
- k) Explosives: Use of explosives will not be permitted.

ADD:

300-1.3.3 Execution.

- a) Paving: Remove concrete and asphaltic concrete paving as indicated on the plans or as required to allow for the installation of new improvements.
- b) Concrete: Where concrete work is to be removed, saw cut concrete along straight lines to a depth of not less than two inches. Make each cut in walls perpendicular to the face and in alignment with the cut in the opposite face. The remainder of the concrete shall be broken out, provided that the broken area is concealed in the finished work, and the remaining concrete is sound. At locations where the broken face cannot be concealed, it shall be ground smooth or the sawcut shall be made entirely through the concrete.
- c) Filling: Fill holes and other hazardous openings in accordance with Section 300 Earthwork.
- d) Title to Materials: Title to all materials resulting from demolition, and all materials and equipment to be removed, is vested in the Contractor upon approval by the Resident Engineer of the Contractor's demolition and removal procedures, and authorization by the Resident Engineer to begin demolition. The City will not be responsible for the condition or loss of, or damage to, such property after notice to proceed. Materials and equipment shall not be viewed by prospective purchasers or sold on or near the site.
- e) Re-use of materials and equipment: Carefully remove and store materials and equipment indicated to be re-used or relocated to prevent damage, and reinstall as the work progresses.
- f) Salvaged Materials and Equipment: Contractor to carefully remove materials and equipment that are designated to be removed on the plans.
- g) Debris and Rubbish: Remove and transport debris and rubbish in a manner that will prevent spillage on streets or adjacent areas. Clean up spillage from streets and adjacent roads.
- h) Regulations: Comply with federal, state and local hauling and disposal regulations.

- i) **Hazardous Materials:** In the event that Hazardous Materials such as contaminated soil, underground tanks, or asbestos is found or identified during excavation for foundation or conduit installation, the following procedures shall be instituted:

The Resident Engineer shall issue a "stop work order" directing the Contractor to cease all construction operations at the locations of such potential hazardous material find. The contractor shall relocate their operations to another portion of the project site at no additional cost to the City.

Such "stop work order" shall be effective until such time as the Resident Engineer assesses the impact of the hazardous material and makes recommendations for its removal and disposal. Any "stop work order" shall contain the following:

- A clear description of the work to be suspended;
- Any instructions regarding issuance of further orders by the Contractor for material services;
- Guidance as to action to be taken on subcontracts;
- Any suggestions to the Contractor as to minimization of his costs; and
- Estimated duration of the temporary suspension.

If the Resident Engineer determines the Hazardous Material removals will cause further delays, the Resident Engineer shall extend the duration of the "stop work order" in writing, and the Contractor shall suspend work at the location of the hazardous material find.

300-1.4 Payment. DELETE in its entirety and ADD the following:

Payment for Clearing and grubbing shall be included in the lump sum price and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in clearing and grubbing demolition as shown on the plans and as specified and as directed by the Resident Engineer, including the removal and disposal of all the resulting materials.

300-2 UNCLASSIFIED EXCAVATION.

300-2.1 General. ADD the following:

In general, the on-site native soils are not suitable for reuse as fill.

300-2.7 Selected Material. ADD the following:

Decomposed granite shall be salvaged from all areas within the limits of work and reused as sub-base material below class A topsoil, if free from vegetation, debris, and other deleterious matter.

300-2.9 Payment. DELETE in its entirety and SUBSTITUTE with the following:

Unclassified Excavation shall include full compensation for furnishing all labor, materials, tools, equipment, and incidents, and for doing all the work involved in the excavation and embankments to achieve the sub-grades and final grades as shown on the plans and as specified and as directed by the Resident Engineer.

Payment for Unclassified Excavation shall be included in the lump sum price and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in the excavation and embankments as shown on the plans and as specified and as directed by the Resident Engineer. No additional compensation for excavation, embankment, import, or export of material shall be allowed.

300-8.1.2 Measurement and Payment. ADD the following:

Geotextiles installed with 'Permeable Concrete Paver' shall be measured for payment by the square foot of fabric placed and shall be included in the square foot price for 'Permeable Concrete Pavers' and no other payment allowed therefore.

ADD:

300-12 FINISH GRADING.

Finish grades shall be measured at the top surface of materials.

The Contractor shall take every precaution to protect and avoid damage to underground utilities during his grading and conditioning operations.

The Contractor shall coordinate all drainage work with all other trades. Established site drainage shall be maintained by the Contractor during all phases of landscape construction.

Final finish grades shall ensure positive drainage of the site with all surface drainage away from trails, buildings, play areas, walls, and toward, drainage facilities, and catch basins or water courses.

Final grades shall be acceptable to the Resident Engineer.

SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS.

303-5.5 Finishing.

303-5.5.3 Walk. First paragraph, DELETE in its entirety and SUBSTITUTE with the following:

The forms shall be set to place the finish surface in a plane sloping from one edge of paving to the other edge a maximum of 1.5 percent right angle to the edge of paving.

Third paragraph, DELETE fifth and sixth sentences and SUBSTITUTE with the following:

After final troweling, portland cement concrete paving shall have a medium broom finish on all surfaces sloped less than 6% and slip resistant heavy broom finish on all surfaces sloped greater than 6%. CBC Section 1133B.7.1.

ADD the following:

After final troweling all walk surfaces shall receive a uniform broom finish (degree of finish as stated in third paragraph) with a stiff fiber broom perpendicular to the edge of the walk, verify direction with Resident Engineer. Upon final curing walk surface shall meet or exceed a static coefficient of friction of .6 wet and approximately .8 dry. Finished surface shall meet ADAAG 4.5 requirements for paving.

303-5.9 Measurement and Payment. ADD the following:

Payment for sidewalk concrete paving, curb & gutters, B-1 curbs, flush curbing, mow curbs, swales, pedestrian ramps and ADA access ramps shall be included in the total lump sum project price and shall include the complete structural section, reinforcing, sub-grade preparation, compaction, formwork , and all specified finishes, admixtures, sealants, etc. and no other payment allowed therefore.

ADD:

303-9 CONCRETE MOW CURBS.

303-9.1 Concrete Mow Curb Installation. Concrete Mow Curbs shall be constructed as indicated on the plans. Mow curbs shall be cast in place using smooth forms set to provide the smooth radius curves as indicated on the plans. Reinforcing bar shall conform to section. Top surface of mow curb shall be medium broom finish with trowelled edge radii as indicated on the plans. Mow curbs shall be formed to provide smooth flowing curves free of kinks and irregularities. Mow curb height shall be set to be flush with the adjacent finished grade.

ADD:

303-10 PERMEABLE CONCRETE PAVER INSTALLATION.

303-10.1 Examination.

For installation on compacted aggregate base and soil sub-grade, the specifier should be aware that the top surface of the pavers may be 1/8 in. to 1/4 in. above the final elevations after compaction. This difference in initial and final elevation is to compensate for possible minor settling.

- a) Verify that sub-grade preparation, compacted density and elevations conform to the specifications.

Note: Compaction of the soil sub-grade should be based on the recommendations of the Designing Engineer and should be measured in Modified Proctor density per ASTM D 1557. The Engineer should inspect sub-grade preparations, elevations and conduct density tests for conformance to specifications.

- b) Verify that geotextiles, if applicable, have been placed according to specifications and drawings.
- c) Verify that aggregate base materials, thickness, compaction, surface tolerances and elevations conform to the specifications.

Note: The aggregate base should be spread and roller compacted in uniform layers not exceeding 6 in. thickness. Recommended base surface tolerance should be plus or minus 3/8 in. over a 10 ft straight edge. The Architect/Engineer should inspect geotextile materials and placement (if applicable), base preparation, surface tolerances, elevations and conduct density tests for conformance to specifications.

Note: Mechanical tampers (jumping jacks) are recommended for compaction of soil sub-grade and aggregate base around lamp standards, utility structures, building edges, curbs, tree wells and other protrusions. Areas not accessible to roller compaction equipment should be compacted to the specified density with mechanical tampers. **CAUTION** - Care shall be taken around the perimeters of excavations, buildings, curbs, etc. These areas are especially prone to consolidation and settlement. Wedges of backfill should not be placed in these areas. If possible, backfilling and compacting in these areas particularly should proceed in shallow lifts, parallel to the finished surface.

- d) Verify the proper installation of the concrete curbing, in terms of location, elevation, and adherence to the specifications.
- e) Verify that the base is dry, uniform, even and ready to support aggregate, pavers and imposed loads.
- f) Beginning of bedding course aggregates and paver installation shall signify acceptance of the base and concrete curb edge restraints.

303-10.2 Site Preparation.

- a) The site must be stripped of all topsoil and other objectionable materials to the grades specified.
- b) All subdrainage of underground services within the pavement area must be completed in conjunction with sub-grade preparation and before the commencement of subbase construction.
- c) After trimming to the grades specified, the pavement is to be proof rolled to a percentage of Standard Proctor Maximum Dry Density as specified by the Engineer with soft spots or localized pockets of objectionable material excavated and properly replaced with approved granular material.
- d) The sub-grade shall be trimmed to within 0 to 1/2 in. of the specified grades. The surface of the prepared sub-grade shall not deviate by more than 1/2 in. from the bottom edge 10 ft. straight edge laid in any direction.

- e) The Contractor shall insure that the prepared sub-grade is protected from damage from intrusion of surface water. No traffic shall be allowed to cross the prepared sub-grade. Repair of any damage resulting shall be the responsibility of the Contractor and shall be repaired.
- f) Under no circumstances shall further pavement construction proceed until the sub-grade has been inspected by the Owner, Agent or the Consultant.

303-10.3 Granular Sub-base and Base Installation.

- a) After proper construction of the concrete curb edge restraints for the interlocking pavement as per Section 3.04, and upon approval by the Owner, Agent or Consultant, aggregate subbase (is specified in design) and base shall be placed in uniform lifts not exceeding 6 in loose thickness and roller compacted according to AASHTO guidelines for installing open graded aggregates.
- b) The subbase shall be placed in uniform lifts not exceeding 6 inch loose thickness and roller compacted according to AASHTO guidelines for installing open graded aggregates. Subbase thickness shall be provided as indicated on the drawings. Base thickness shall be provided as indicated on the drawings.
- c) The granular base, shall be trimmed to within 0 to 3/8 in. of the specified grade. The surface of the prepared base shall not deviate more than 3/8 in. from the bottom edge of a 10 ft. straight edge laid in any direction. The final decision of the allowable base deviation shall be determined by the Designing Engineer.
- d) Before commencing the placing of bedding aggregate course and the placement of the Permeable concrete pavers, the base shall be inspected by the Owner, Agent or the Consultant.

303-10.4 Edge Restraints.

- a) Adequate concrete edge restraint shall be provided along the perimeter of all paving as specified. The leading edge of the concrete restraint, where it contacts the paving stone shall be fit parallel along the edge of the paving units.
- b) All concrete edge restraints shall be constructed to dimensions and profiles specified and shall be supported by a compacted subbase of not less than 6 in. thickness.
- c) Concrete used for the construction of the edge restraints shall be air-entrained and have a minimum compressive strength as specified. All concrete shall be in accordance with ASTM C 94 requirements.

303-10.5 Paver Installation.

- a) Spread the bedding aggregate evenly over the base course and screed to a nominal 1 ½ in. to 2 in. thickness. Use tracked equipment only and insure that the bedding aggregate are not to be disturbed. Place sufficient bedding aggregate to stay ahead of the laid pavers. Do not use the bedding aggregate to fill depressions in the base surface.

- b) Pavers shall be free of foreign material before installation.
- c) Pavers shall be inspected for color distribution and all chipped, damaged or discolored pavers shall be replaced.
- d) The pavers shall be laid in pattern(s) as shown on the drawings.
- e) Joints between the pavers shall be maintained according to the spacer bars.
- f) Gaps at the edges of the paved area shall be filled with cut pavers.

Note: Units cut no smaller than one-third of a whole paver are recommended along edges subject to vehicular traffic.

- g) Pavers to be placed along the edge shall be cut with a double blade paver splitter of masonry saw.
- h) The paver surface shall be swept clean of all debris before compacting, in order to avoid damage from point loads.
- i) A low amplitude, high frequency plate compactor shall be used to compact the pavers into the bedding course. Use Table 5 below to select size of compaction equipment:

TABLE 5 - PAVER THICKNESS AND REQUIRED MINIMUM COMPACTIVE FORCE

| | |
|--|-------------------------------------|
| PAVER THICKNESS 3 .1496 in. (80 mm) | COMPACTIVE FORCE 5000 lbs (22kN) |
|--|-------------------------------------|

- j) The pavers shall be compacted and joint aggregate swept into the joints until the joints are full. This will require a least two or three passes with the compactor. Do not compact within 3 ft. of any unrestrained edges of the laid paving units.
- k) All work to within 3 ft. of the laying face must be fully compacted and filled with joint aggregate at the completion of each day.
- l) Excess joint aggregates shall be swept off when the job is complete.
- m) The final surface elevations shall not deviate more than 3/8 in. under a 10 ft straight edge or at a tolerance that the Designing Engineer specifies.
- n) The surface elevation of pavers shall be 1/8 in. to 1/4 in. above adjacent drainage inlets, concrete collars or channels.

303-10.6 Field Quality Control. Final elevations shall be checked for conformance to the drawings after removal of excess joint aggregate.

303-10.7 Measurement and Payment. Permeable Concrete Paving shall be measured by the square foot and paid by the lump sum price for ‘Permeable Concrete Paving’ and

shall include all services, labor, materials, transportation and equipment necessary to furnish and place all sub-base, base, and sand laying courses, soil separation fabrics; furnish and install permeable concrete paving in the quality, shape, thickness and color as specified; and furnish and install all accessory items as shown on the drawings and as specified in these Special Provisions for a complete installation.

304-3 CHAIN LINK FENCE.

304-3.4 Measurement and Payment. First paragraph, REVISE to read as follows:

Chain link fence will be measured parallel to the ground slope along the line of the completed fence, deducting the widths of gates and openings. Gates will be measured by the size of each gate.

DELETE second paragraph in its entirety and SUBSTITUTE with the following:

Payment for Fences and Gates as required by the plans shall be included in the Contract Lump Sum price, shall be included in the lump sum project cost and shall include full compensation for furnishing the gates together with all necessary fittings and hardware, and doing all the work involved in installing the gate, complete and in place.

DELETE third paragraph in its entirety and SUBSTITUTE with the following:

Full compensation for clearing the line of the fence and disposing of the resulting material, excavating high points in the existing ground between posts, excavating and furnishing and placing concrete footings connecting new fences to structures and existing fence as shown on Plans, signs mounted on fence, and any other related work shall be considered as included in the Contract lump sum price and no additional compensation will be made therefore.

SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

ADD:

306-13.3 UTILITY BOXES. All existing utility boxes shall be replaced with suitable utility cover complete with required lid. Payment for replaced utility boxes shall be included in the lump sum price. All new utility boxes required for irrigation or street lighting shall be included in the lump sum prices.

306-14 WATER SERVICES.

306-14 Water Meters and Services. Add the following:

Water Meters shall conform to the City Standard Drawings and to the provisions of the City Standard Specifications. Piping, meter, and material shall be listed on the City of San Diego Water Utilities Department Approved Materials List.

The contractor shall be required to coordinate, submit, and process the plans with the City of San Diego to procure the services of the City of San Diego forces to perform the City Work as indicated in the drawings.

The contractor shall coordinate with the City of San Diego and verify the size and type of backflow devices to be installed.

City Water, Sewer, Capacity and Wet Tap Installation Fees for this project are stipulated at \$40,000.00. The contractor shall be required to pay all City water, sewer, capacity, and wet tap installation fees.

306-14.1 Payment. ADD the following:

All costs associated with coordination, processing, and obtaining services shall be included in the lump sum project price.

SECTION 308 - LANDSCAPE AND IRRIGATION INSTALLATION

308-2.3.1 General. DELETE in its entirety and SUBSTITUTE with the following:

The type and thickness of topsoil shall be Class A, thickness as shown on plans and minimum of 9 inches thick, compacted in place. Existing decomposed granite (DG) found within the project limits shall be stockpiled and placed as sub-base material in a 3 inch layer below the 9 inches of Class A topsoil and be free of weeds, rocks greater than 1/2 inch minus, and other extraneous material.

The existing native soils below the 3 inch sub-base grade for Class A topsoil shall be deep ripped to a depth of 6 inches in a cross pattern prior to spreading decomposed granite sub-base material. Rocks 6" or greater shall be removed from the deep ripped area. The area shall be smooth and uniform before the DG sub-base material is placed.

Soil shall not be worked when it is wet or so dry as to cause excessive compaction or the forming of hard clods or dust. Ripping shall only be applied to lawn areas as shown on the plans.

Prior to planting, the Contractor shall apply translocative, systemic herbicide ("Round-up" or equal) to kill all broadleaf weeds and grasses present in planting areas according to manufacturer's directions. Dead plant material shall be removed from the site.

ADD:

308-2.3.1.1 Weed Eradication. Soil preparation and planting shall not be allowed until all weeds are removed from within the limits of planting areas as indicated on the plans.

The Contractor's labor shall possess demonstrated ability to identify the difference between desirable native species and invasive weeds.

Weed eradication for entire project site. After irrigation installation, but before planting installation, the Contractor shall irrigate the entire project site three (3) to four (4) times over seven (7) to ten (10) days to germinate existing weed seeds. Allow weed seeds to grow until they reach a maximum height of two to three inches (2" - 3"). A post-emergent herbicide shall then be applied per manufacturer's specifications and instructions. Avoid contact of herbicide with the existing plants to remain.

All herbicides used shall be compatible with use in the vicinity of water and shall be applied in accordance with the label specifications by personnel holding a valid pesticide and herbicide applicator's license. Herbicide use shall be approved by the Engineer prior to application. Rodeo herbicide, or approved equal shall be used in or near areas of standing water or streams since it is non-toxic to aquatic organisms and should be applied only by a licensed pest control applicator in accordance with the manufacturer's instructions.

Pulled weeds and debris shall be transported and disposed of properly offsite immediately using approved methods to prevent any seed dispersal on the site.

The eradication of exotic plant species is required prior to any planting. All exotic vegetation within the planting areas shall be removed. Herbicide shall be applied to weedy vegetation (e.g., giant reed (*Arundo donax*), tamarisk (*Tamarix* sp.), pampas grass (*Cortaderia jubata*), tree tobacco (*Nicotina glauca*), yellow star-thistle (*Centaurea melitnesis*), cocklebur (*Xanthium* sp.), castor bean (*Ricinus communis*), annual beardgrass, and Bermuda grass (*Cynodon dactylon*), etc.) within the project area. All weedy species should be cleared approximately two weeks following herbicide application.

The Resident Engineer shall inspect the site prior to planting. The planting of hydroseed shall be conducted on a weed free site.

Manual weed eradication shall continue during planting and during the plant establishment period and maintenance period; no herbicides shall be used following the initial weed eradication unless authorized by the Resident Engineer. Weed seedlings and sprouts shall be removed before attaining 12-inches in height and/or before producing seed.

All areas where weed removal creates bare areas in excess of 25 square feet shall be reseeded.

Weed eradication for shrub areas and groundcover areas (planted from flats). Three (3) to four (4) days after these plants have been installed; the Contractor shall apply the pre-emergent herbicide per manufacturer's specifications and instructions.

308-2.3.2 Fertilizing and Conditioning Procedures. Paragraph 1, REVISE to read as follows:

The planting areas shall be ripped to a depth of 15" and brought to finish grade before spreading the fertilizer and soil conditioning materials specified.

Paragraph 2, REVISE to read as follows:

Within shrub planting areas only, soil amendment materials shall be uniformly spread at the prescribed rate. All hardscape shall be dry at time of application. The quantities of materials necessary for the planting area shall be at the site and shall be verified by delivery tickets furnished to the Engineer before spreading. Place additional class A topsoil in planting areas as required to meet grades as indicated on the plans prior to final ripping/scarifying and incorporation of soil amendments.

ADD the following:

Once rough grading has been accomplished, a minimum of (4) four soil samples from different representative areas of site shall be taken from areas approved by the Resident Engineer and a soil analysis performed to determine nutrient and mineral content, compositional characteristics, permeability, and existence of possible toxic elements. Soil test shall be conducted by a reputable agricultural soils laboratory approved by the Resident Engineer. Analysis shall include recommendations for amending or correcting soil conditions. Results of soil analysis shall be received by the Resident Engineer thirty (30) days prior to amending or soil and ordering amendments.

Based on the soils test results, the quantity or type of amendments may be modified by the Landscape Architect within 14 days of receipt of analysis.

Grub and clean all planting areas, removing all weeds, debris, and rocks from the site. All shrub planting areas, 3:1 or less in steepness, shall be thoroughly tilled and loosened to a depth of fifteen (12) inches by approved method. Do not till near existing trees if roots are encountered.

All turf and shrub planting areas where existing soils are replaced with imported topsoil shall be backfilled and settled using applications of water to moisten soil and establish a stable finish grade. Areas which subside, and all depressions or irregularities shall be repaired, settled and grade re-established.

After all shrub planting areas (excluding turf areas) meet the finish grades per grading plan, the following rates of soil conditioning and amendment materials (or as modified by the soils report), shall be evenly spread over all planting areas and worked into the soil:

- 1) Soil amendments for all shrub planting areas 3:1 or less in steepness:

| | |
|------------------|-------------------------|
| Soil conditioner | 4 cu. Yds/1,000 sq. Ft. |
| Gypsum | 120 lbs/1,000 sq. Ft. |
| Iron sulfate | 10 lbs/1,000 sq. Ft. |
| Soil sulphur | 10 lbs/1,000 sq. Ft. |

After leaching, apply:

| | |
|---------------------|----------------------|
| 10-10-10 fertilizer | 25 lbs/1,000 sq. Ft. |
|---------------------|----------------------|

Amendments shall be thoroughly tilled and blended into the existing soil to a depth of six (6) inches by approved methods.

Note: Soil amendments as specified are for bidding purposes only, actual types and quantities will be based on soil analysis (provided by Contractor) after rough grading.

Soil amendments, as specified, are for bidding purposes only. Actual types and quantities may be altered based on soil analysis (provided by Contractor) after rough grading.

- 2) In addition, after amending soil as described above, all shrub planting areas shall be sprayed with "Sarvon" at the rate of 6 gallons/acre (or 1 qt./2,000 sq. ft.) immediately prior to leaching.

Deep Water Leaching:

- 1) After complete installation and testing of the irrigation system and tilling soil amendments, all on-grade areas shall be deep water leached, compacted and settled by repeated application of irrigation water until the soil has received a minimum of 12" of water, and has been thoroughly moistened to a depth of 24".
- 2) After leaching operation, 4 soil samples shall be taken by Contractor per Resident Engineer's / Landscape Architect's direction and given to the soil laboratory for testing. Soil test shall meet the following requirements:

EC - Maximum 3.00
 pH - Maximum 7.50
 Minimum 6.0

Post Planting Fertilizer:

The Contractor shall apply post-plant 14-7-3 fertilizer at the rate of twenty pounds (20 lbs.) per 1,000 sq.ft., sixty (60) days after planting and once again at the end of the post-construction maintenance period.

Maintenance Phase Fertilizer:

The Contractor shall apply 12-4-6 fertilizer at 30-day intervals from the start of the maintenance period at a rate of 6 lbs. per 1,000 sq. ft. to the planted areas.

- 1) Application rates:

| | Fertilizer | |
|------------------------------------|--|-------------------------|
| | <u>Rate</u> | <u>Type</u> |
| (a) Trees: | 1/2 lbs. per each 1" of trunk caliper | Post planting 12-4-6 |
| (b) Shrubs, Vines & Groundcover | 6 lbs. per 1,000 sq. ft. Planting area | Post Planting 12-4-6 |

- 2) Apply fertilizer with acceptable equipment.
- 3) Apply fertilizer when plants and planting areas are in dry condition, apply irrigation immediately after fertilizer application.

308-2.3.3 Topsoil in Turf Areas. Second sentence, change 3" to 6" for depth of scarifying.

Contractor shall remove existing decomposed granite play field surfacing material and stockpile on site for reuse as a sub-base material. Contractor shall remove existing native soils to a 12" depth from proposed finish grade and export off site. Once decomposed granite and existing soils are removed, existing native sub-grade soils shall be ripped to a depth of 6" in preparation to receive salvaged decomposed granite

sub-base. Salvaged decomposed granite sub-base materials shall be placed to a depth of 3" minimum. Sub-base and ripped native soils shall be further scarified in two perpendicular directions to mix together. Contractor shall compact sub-base to 85% compaction before placing Class A topsoil. Class A topsoil shall be installed in two 4.5" lifts and amended prior to placing subsequent lifts. One half of the soil conditioning materials indicated below shall be evenly spread and blended/rototilled in each lift of Class A topsoil at the following rates per 1,000 square feet over all turf areas:

| | |
|--------------------------------|--------------------------|
| Type 4 organic soil amendment: | 6 cubic yards |
| Soil conditioner: | 75 lbs per 1,000 sq. Ft. |
| Pre-plant fertilizer: | 20 lbs per 1,000 sq. Ft. |
| Iron sulphate: | 20 lbs per 1,000 sq. Ft. |

308-2.4 Finish Grading. First Sentence, REVISE to read as follows:

The finish grade shall be smooth, uniform and free of abrupt grade changes and depressions to ensure surface drainage as indicated on plans. Contours and finish grade shall provide for drainage to sheet flow and shall not channel drainage in a manner where volume and velocity of water will create surface erosion.

ADD the following:

Finish grade shall insure positive drainage from the site. Surface drainage shall be away from all building foundations. The Resident Engineer shall approve the final grades and elevations before planting operations may begin.

ADD:

308-2.5 Class A Topsoil Measurement and Payment. Class A Topsoil shall be measured and paid by the total cubic yards installed complete and shall include full compensation for furnishing all material, delivery, placement, fees, labor, equipment, water, tools and incidentals required to complete the work specified and shall be included in the project lump sum price. No additional compensation will be made therefore.

ADD:

308-2.6 Infield Mix Measurement and Payment. Infield Mix shall be measured and paid by the total cubic yards installed complete and shall include full compensation for furnishing all material, delivery, placement, fees, labor, equipment, water, tools and incidentals required to complete the work specified and shall be included in the project lump sum price. No additional compensation will be made therefore.

308-4 PLANTING.

308-4.1 General. ADD the following:

The Contractor shall be responsible for managing the site and performing planting, maintenance and corrective measures to the best advantage of the plant material to promote healthy growth, establishment and success of the plantings. This shall include providing for drainage, irrigation, repair of damaged features, correction of

deleterious conditions, maintaining a proper soil moisture level, weeding, fertilization, protection, temporary measures to promote establishment and other reasonable maintenance and construction efforts needed to provide for the successful establishment of the plant materials during the entire contract period.

The Contractor shall not install planting as shown in the plans when it is obvious in the field that conditions exist which are detrimental to plant survival and growth. Such conditions shall be brought to the attention of the Resident Engineer. The successful establishment of the plantings during the entire contract period is the Contractor's responsibility.

Actual planting shall be performed during those periods when weather and soil conditions are suitable and in accordance with locally accepted horticultural practice, as approved by the Resident Engineer. No planting shall be done in any areas until it has been satisfactorily prepared in accordance with these specifications. Soil moisture level prior to planting shall be no less than 75% of field capacity. The determination of adequate soil moisture for planting shall be the sole judgment of the Resident Engineer and his decision shall be final. The Contractor shall obtain approval from the Landscape Architect of planting pits before planting operations shall begin. If the soil moisture level is found to be insufficient for planting, all planting pits shall be filled with water and allowed to drain before starting planting operations. No more plants shall be distributed in the planting area on any day than can be planted and watered on that day. All plants shall be planted and watered as herein specified immediately after the removal of the containers. Containers shall not be cut prior to placing the plants in the planting area.

Percolation Test: Prior to installing plants, Contractor shall perform a minimum of three percolation tests in representative areas of the site to verify acceptable natural drainage for planting pits. Tests shall be performed as follows:

- 1) Dig a pit 2'x 2' x 2' deep.
- 2) Fill with water to top and cover with plywood and barricade to protect pedestrians.
- 3) Make daily observations noting the depth of water each day.
- 4) Report to the Resident Engineer the length of time that the water takes to drain completely from each hole. If water drains from the hole within one day, refill with water. Based on this test, the Resident Engineer will make a determination of whether additional drainage measures will be required for boxed size tree plantings.

No plants shall be installed until percolation tests have been observed by the Resident Engineer and a determination made that no further drainage measures are required.

Planting shall not be performed if plant pits contain standing water, or if pits are over saturated to a condition which may result in an unhealthful condition for the plant. It is the Contractor's responsibility to provide a suitable growing condition for the plant material and to maintain that condition throughout the entire contract period.

If requested by the Contractor, the Resident Engineer will have the Landscape Architect Consultant visit the nursery from which trees are procured to inspect the trees prior to delivery to the site. The Contractor shall reimburse the City for all time spent driving to and from the nursery and inspecting the trees at an hourly rate of \$120/hour or fraction of hour.

It is in the Contractor's interest to have the Resident Engineer visit the nursery and inspect the Contractor's selected trees prior to delivery to the site. This may prevent extra shipping expenses to the Contractor for trees delivered to the site, but subsequently rejected by the Resident Engineer. This does not preclude the Resident Engineer from rejecting any trees delivered to the site which, upon inspection at the site, do not meet the criteria for acceptance as previously outlined.

After approval and transportation, and upon arrival at the construction site, the Resident Engineer will inspect the plants for any damage that may have occurred in transit. Plants that have been damaged in transit may be rejected at no cost to the City in accordance with these Special Provisions, Section 212-1.4.1.

308-4.2 Protection and Storage. ADD the following:

The Contractor's on-site plant storage area shall be approved by the Resident Engineer prior to the delivery of any plant materials. Any plants determined by the Resident Engineer to be wilted, broken, or otherwise damaged shall be rejected at any time during the project, whether in the ground or not. All plants shall be handled by their containers. Any plant that has been handled by its trunk or stem shall be rejected. All rejected plants shall be removed from the site immediately.

ADD:

308-4.2.1 Existing Tree, Shrub and Ground Cover Protection. The work is to be performed in areas of existing planting and irrigation. The Contractor shall take precautions to minimize the disturbance to adjacent planted areas and is required to replace in kind any irrigation or planting disturbed by the work.

Identify and protect from damage all individual plants and areas of planting to remain by appropriate means. The Contractor shall provide equivalent size replacement plants in the event that the death or decline of existing plants to remain is attributable to the Contractor's negligence or lack of protection as determined by the Resident Engineer.

No storage of construction equipment or construction materials, nor stockpiling of soil or debris shall be placed within 1'-0" from the trunk for every 1" caliper of any existing tree.

All plants to remain on-site shall be watered and irrigated as necessary during the entire construction contract to provide for the health of the plant. Any plants required to be removed, boxed and set aside for future installation shall be watered, and maintained by the Contractor in a healthy condition until replanted or until the end of the maintenance period.

The pruning and trimming of the limbs and roots of plant materials to remain within the project scope shall be done by tradesmen experienced in this type of work. The removal of any limbs, branches, and roots shall be done only after conferring with the Resident Engineer.

ADD:

308-4.2.2 Excavation Adjacent To Existing Trees, Shrubs, and Ground Cover to Remain. Trenching within the drip line of trees and shrubs shall be avoided. It is the intent of the plans that the Contractor provide an alternate routing of trenching to avoid cutting through roots of existing trees. Contractor shall markout proposed routing of trenching around tree root systems for review and approval by the Resident Engineer, prior to performing the trenching work.

Where it is necessary to excavate in close proximity to existing trees and shrubs, all possible caution shall be exercised to avoid injury to roots and trunks. In the event it is necessary to cut the roots of an existing tree, the tree shall be pruned prior to excavation to reduce the foliage volume by the same percentage as the approximate percentage of roots removed. Pruning of trees on private property shall not be done without written permission of the property owner.

Excavation within the drip line of the tree shall be done by hand, tunneling under roots 1" in diameter and larger, and shall be done only on the approval of the Resident Engineer and Landscape Advisor. The exposed roots of trees shall be covered and shaded by moist burlap or canvas until the trench is backfilled.

308-4.6 Plant Staking and Guying.

308-4.6.2 Method B Tree Staking (Double Stake). DELETE in its entirety and SUBSTITUTE with the following:

All 15 gallon, 24" box and 36" box size trees shall be double staked. Refer to section 212-1.5.3 of these special provisions for approved staking materials and guying materials.

The tree shall be staked with the type and length of stake specified on the plans or in the special provisions. One stake shall be placed 450 mm (18 inches) from each side of the tree trunk, unless directed otherwise by the Resident Engineer. Ties shall be made of 25 mm (1-in) or wider flexible plastic ribbon material having a minimum tensile strength of 2.2 kN (500 pounds). Four ties shall be used; two at 50 mm (2 in) from the top of each stake and two at 0.6 m (2 ft.) above the ground. Ties shall be loops secured to the stake on one end and shall be long enough to provide for 75 mm (3 in.) of slack to permit the tree trunk limited movement in any direction.

Payment for tree staking shall be included in the project lump sum cost and no separate payment will be allowed therefore.

308-4.6.3 Guying. DELETE in its entirety and SUBSTITUTE with the following:

All boxed trees over 36" box shall be guyed.

308-4.7 **Ground Cover and Vine Planting.** Paragraph 2, REVISE to read as follows:

Soil shall be moist within the total root zone of the material being planted.

308-4.8 **Lawn Planting.**

308-4.8.2 **Seed.** ADD the following:

If turf installation is determined to be seeded, the Contractor shall provide turf hydroseeding and place it using Method B.

General Requirements: Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and planting area conditions and shall immediately inform the Resident Engineer of any discrepancies between the drawings and/or actual specifications and site conditions. Work shall not be done on any area where there are such discrepancies or where conditions are unsuitable for successful plant material establishment until approval has been given by the Resident Engineer.

Quality of Work: The hydroseeding work shall be performed by competently trained individuals employed by a qualified hydroseeding company in accordance with the best standards and practices related to the trade and under the continuous supervision of a competent foreman capable of interpreting the plans and specifications.

Inspection of Conditions: The Contractor shall examine related work including irrigation and grading surfaces before proceeding with any work and inform the Resident Engineer in writing of conditions which may prevent the proper execution of this work.

All materials shall be standard, approved and first grade quality and shall be in prime condition when installed and accepted. Any commercial process or packaged material shall be undisturbed and delivered to the site in their original containers, unopened, bearing the manufacturer's guaranteed analysis.

Hydromulching Application and Planting Schedule: The hydromulching shall be applied in the form of a slurry consisting of organic soil amendments, commercial fertilizer, and other chemicals, as specified. When hydraulically sprayed onto the soil, the mulch shall not form a blotter like material. The spray operation must be so directed that the slurry spray will penetrate the soil surface as to drill and mix the slurry components into the soil, thus ensuring maximum impregnation and coverage. The impregnation and mixing of the components will help in retaining moisture while stabilizing the soil surface from erosion.

Hydroseeding Mixture: The hydroseed mixture shall consist of the following at the application rates shown:

| | |
|--------------|--|
| Seed Mix: | Seed mixes as indicated on plant list. |
| Soil Binder: | 60 lbs per acre "Ecology Control M-Binder", or approved equal. |
| Mulch: | 1800 lbs per acre\Cellulose fiber mulch. |

Hydroseeding Equipment: The above specified components shall be mixed together in the hydroseeding machine containing at least 2,000 gallons of water to allow for a homogeneous slurry which is thoroughly mixed and can be applied easily without clogging.

The equipment shall have a built-in agitation system and operating capacity sufficient to agitate, suspend and homogenously mix a slurry containing not less than 44 lbs of organic mulching amendment plus fertilizer, chemical additives and solids for each 100 gallons of water.

The hydromulching equipment shall meet the minimum requirements of a slurry distribution line large enough to prevent stoppage and shall be equipped with a set of hydraulic spray nozzles which will provide a continuous non-fluctuating discharge of at least 25 psi at the end of the spray nozzle, the slurry tank shall have a minimum capacity of 2,000 gallons and shall be mounted on a traveling unit either self-propelled or drawn by a separate unit.

Equipment used in the hydroseeding process will be thoroughly cleaned of all seed and other materials used in any previous hydroseeding process, prior to hydroseeding on this project.

Preparation of Hydroseeding Mixture: The slurry shall be prepared at the site and its components shall be mixed to supply the rates of application as specified.

Slurry preparation shall begin by adding water to the tank when the engine is at one-half throttle. When the water level has reached the height of the agitator shaft and good circulation has been established, the fertilizers shall be added to the mixture (the tank shall be at least 1/3 filled with water at this time).

The engine throttle shall be open to full speed when the tank is 1/2 filled with water. All organic amendments, fiber and chemicals shall then be added by the time the tank is 2/3 to 3/4 full. At this time, and not before this time, the seed mix shall also be added.

Spraying shall commence immediately when the tank is full and the slurry is mixed.

Application of the Hydroseed Mixture:

The operator shall spray the area with a uniform visible coat using the dark color of the cellulose fiber or organic amendment as a visual guide. The slurry shall be applied in a downward drilling motion via a fan stream nozzle. It is important to ensure that all of the components enter and mix with the soil. The hydromulch has a tendency to build up on itself, therefore, it is important that the Contractor employ only qualified personnel to ensure uniformity of the hydromulch application.

Time Limit: The hydromulching slurry components are not to be left in the hydromulch machine for more than two hours due to seed destruction. If slurry components are left for more than two hours in the machine, the Contractor shall add 50% more of the originally specified seed mix. The Contractor shall add 75% more of the original seed mix to any slurry mixture which has not been applied between two and eight hours after mixing or it shall be rejected and disposed of off-site at the Contractor's expense, as directed by the Resident Engineer.

Protection: Special care is to be exercised by the Contractor to prevent any of the slurry from being sprayed onto any hardscape areas including concrete walks, fences, walls, buildings, etc. Any slurry sprayed onto these areas shall be cleaned off at the Contractor's expense.

Hydroseed Maintenance: General care and maintenance shall consist of the proper watering, fertilizing, weed control, and clean up during the germination and establishment period of growth. The maintenance period shall be 120 days.

Germination Stage Irrigation: Approximately 25 hours after hydromulching the planting areas, the watering sequence shall be initiated. The water shall be left on long enough to moisten the soil thoroughly to the depth of the slurry mulch taking care not to super-saturate or wash away the slurry mulch and seed. Frequent, light irrigation must be performed to establish seedling growth. The Contractor shall repair all seed washed areas or erosion at his own expense. The slurry mulch and seed must be irrigated frequently to maintain optimum moisture content for maximum germination. The irrigation system must be observed at all times while in operation. The irrigation sequence must be determined by air temperature, prevailing wind velocity, soil texture, orientation and other logistics. It is imperative that the soil be kept moist at all times during the germination period. The light, frequent irrigation sequence shall continue until the seedlings have grown beyond the germination stage. The germination stage will range from 45 to 60 days.

Establishment Stage Irrigation: The irrigation sequence (frequency) shall be gradually reduced while the duration of each watering cycle shall be gradually increased. A specific watering program shall be determined by the Resident Engineer.

Hardening Off Stage Irrigation: Towards the end of the 120 calendar day maintenance period, the watering frequency shall be slowly reduced to approximately once every three days depending on the season, while increasing the duration of the watering sufficient to allow for maximum water penetration for the expanding root system, while at the same time taking care not to cause erosion. The Contractor shall be responsible for adjusting watering frequency and duration to promote optimum growing conditions.

Weeding: Weed growth appearing in the hydroseeded areas during the maintenance period shall be removed at thirty (30)-day intervals.

Minimum Coverage: Final acceptance shall be given at the end of the one hundred and twenty (120)-day period once a minimum of 90% coverage and plant establishment has been obtained.

Final Approval and Acceptance: Final approval and acceptance will be given in writing by the Resident Engineer following a final site inspection by the Resident Engineer, City representatives and Landscape Architect. The Landscape Architect, City representatives, and Resident Engineer reserve the option to extend the maintenance period if it is determine the project warrants further maintenance or establishment time.

308-4.8.3 Sod. Second paragraph, second sentence: change the word "conditioning" to "preparation".

ADD the following:

Preparation of soil: After conditioning of soil, area to be planted with lawn sod shall be raked, floated and rolled to finish grade; smooth and even, free of rocks and clods, and reasonable well firmed. Prior to planting, the surface of the area shall be sufficiently loose, moist, and friable to receive the sod.

Sodding: Sub-soil finish grade shall be sufficiently below final grade to allow for the thickness of the sod. Sod slabs shall be laid promptly after delivery to job site. In hot, dry, or windy weather, stacked sod at job site shall be lightly sprinkled with water to prevent slab edges from drying excessively. Sod slab ends and sides must be butted together for a close fit and in a staggered pattern without overlapping, parallel to lay of land.

Initial Watering: Immediately following planting, sod shall be thoroughly watered and kept sufficiently moist until the sod has rooted.

Final Compaction: Fully germinated and rooted lawn areas shall be allowed to dry sufficiently to permit rolling with a two hundred to three hundred pound water weighted roller to compact the soil around grass and roots and to provide a firm, smooth mowing surface.

Filling: Following compaction and irrigation settlement, all depressed areas shall be filled with screened conditioned top soil and re-sodded.

Protection: The lawn areas shall be protected against foot traffic and other use. Damaged areas shall be repaired immediately.

Finishing: After planting operations are completed, the top surface of the lawn areas shall be left smooth and visually even, with no ridges, rises or depressions.

ADD:

308-4.8.4 Measurement and Payment. Lawn Sod shall be measured by the square foot. Payment for Lawn Sod shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, all incidentals necessary to provide a complete installation, and for doing all the work involved in installing lawn sod, complete-in-place, as shown on the plans, as specified in these Special Provisions and as directed by the Resident Engineer.

308-4.9.3 Seeding and Mulching. DELETE in its entirety and SUBSTITUTE with the following:

Seed, fertilizer, mulch, and other specified materials shall be applied on slopes by Method B described in 308-4.8.2. Method B Hydroseed shall be composed of materials as follows:

Hydroseed shall consist of a mixture of bonded fiber matrix, seed, commercial fertilizer, binder, and water. Mixture will be as specified as follows:

The hydro-mulch slurry mixes shall be applied in a two (2) step process which allows seed to be in close contact with soil. The hydro-mulch shall be applied at the following rates:

Step 1: Seed Application Hydro-mulch:

| | |
|---------------------------------|---|
| Bonded Fiber Matrix (BFM): | 500 lbs. per acre. |
| Fertilizer (Pre-Plant12-12-12): | 100 lbs per acre |
| Water: | As required per manufacturer's instructions |
| Mycorrhizal Inoculum: | 60 lbs. per acre. |
| Seed Mix: | Pure live seed in weights as indicated on plans |

Step 2: Erosion Control Hydromulch

| | |
|----------------------------|----------------------|
| Bonded Fiber Matrix (BFM): | 2,500 lbs. per acre. |
| Water: | As required |

Contractor must provide the Resident Engineer with seed "bag tags" and receipt forms prior to installation of hydroseed mixture.

All bare spots shall be re-seeded and mulched by the Contractor within thirty days of the initial application.

The preferred time for performing seeding is between the dates of October 15 and November 30 or before the first substantial winter rains if this is not possible, seeding shall occur between October 15 and February 28. Since an irrigation system is specified for the slope areas, seeding of those areas can be performed between September 15 and March 15, if the site is ready for seeding.

Seeding shall be started only after weed eradication, soil preparation and finish grading has been completed and soil has been permitted to settle.

Floating: After finish grading, deep watering, the areas to be seeded shall be loosened to a depth of two inches, raked, and floated to the final finish grade by a standard method acceptable to the Resident Engineer/Project Biologist (Restoration Ecologist), with the finish surfaces left even and smooth, free from ridges and depressions and reasonably well firmed.

All seed shall be separated and containerized by species. Each species of seed shall be labeled with the species, purity, germination, percent live seed and quantity of the seed in pounds. Save all seed tags and provide to the Resident Engineer with a small sample of seed from the seed containers prior to mixing to verify the seed quality.

Seeding application is to be performed prior to application of the hydromulch so that seed is in direct contact with the soil.

The seed shall be evenly applied over the entire area at the rates indicated for each area. During the sowing, care shall be exercised to keep uniform seed spacing. Seeding shall not be performed during times when wind may cause uneven distribution of the seed.

ADD:

308-4.10 Mulch. Install mulch in a minimum 3” depth layer in all planting areas indicated on plans. Depth shall be uniform. Taper the mulch to the crown of plant trunks, and keep mulch free of the area within 2” of trunk of plant. Bark mulch shall be 1"x 3" in size.

Bark Mulch shall be measured by the square foot. The contract unit price paid for mulch shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, all incidentals necessary to provide a complete installation, and for doing all the work involved in supplying and installing bark mulch, complete-in-place, as shown on the plans, as specified in these Special Provisions and as directed by the Resident Engineer.

308-5 IRRIGATION SYSTEM INSTALLATION.

308-5.1 General. ADD the following:

Contractor shall provide a temporary water supply from an approved source to irrigate existing plants until the permanent water source is operable. Contractor shall submit shop drawings and description of the temporary water supply to the water authority and City for approval. The temporary water supply shall be of adequate pressure and gallonage to operate the existing irrigation system and other required irrigation equipment at its designed capacity.

Contractor shall furnish any and all temporary electric power required to operate irrigation controllers during construction period or until permanent electrical power has been furnished.

Contractor shall check and verify the water pressure at point of connection prior to beginning of work. Notify Resident Engineer of any discrepancy between pressure indicated on plans and actual water pressure.

Contractor shall check and verify all site conditions, utilities, and services prior to trenching. Verify point of connection location prior to beginning of work.

Irrigation plans are diagrammatic and approximate. All piping, valve boxes, backflow preventers, etc., shall be located in planting areas. No irrigation equipment except pipe crossings and electrical crossings shall be located in or under sidewalks or in the street. Except where street crossings or trench rerouting is required to protect existing trees.

All irrigation equipment shall be installed, flushed, pressure tested, and the coverage test approved prior to plant installation.

308-5.2 Irrigation Pipeline Installation.

308-5.2.1 General. DELETE first and second paragraphs and ADD the following:

Trenches through paved areas shall be resurfaced in accordance with 306-1.5.

Concrete thrust blocks, minimum 1 cu. ft. with sufficient bearing area to resist the thrust of water, shall be constructed against undisturbed earth at all changes of direction exceeding 45 degrees for pressure mainline pipe larger than 2", thrust blocks shall be installed at gate valves, tees, elbows, crosses, and ends of pipe runs; or wherever the Resident Engineer deems one to be necessary. Thrust blocks are to be installed as per Standard Drawings SDW-151, sized as for 4" pipe.

Contractor shall install sleeves and chases where any waterline or controller wire passes under paving. Sleeves and chases shall extend 12" beyond each side of the improvement. The letter "E" for electrical or the letter "W" for water shall be stamped or chiseled on the improvement directly above the chase or sleeve. The chases shall be a minimum 15" deep for electrical and the sleeves 21" below grade for water. Sleeves and chases shall be Schedule 40 PVC, typical. The diameter of the sleeve shall be two (2) pipe sizes larger than the diameter of waterline, to be installed in sleeve.

All pressure pipe shall have a continuous blue colored trench marker metallic tape placed nine inches (9") below finished grade directly above the buried pipe. Marker tape shall be "Alarmatape" as manufactured by Paul Potter Warning Tape, Inc., or approved equivalent.

Avoid installing pipe through proposed tree locations to avoid conflict with root ball.

308-5.2.4 Copper Pipeline. First Paragraph, ADD the following:

Copper pipe shall be cut square and all burrs and fins removed.

Second paragraph, change 50 – 50 to 40 – 60.

308-5.3 Installation of Valves, Valve Boxes, and Special Equipment. Sixth paragraph, ADD the following:

The Contractor shall rework the locking toggles of the concrete valve boxes by replacing the existing clevis pin and sheet metal clip with a cadmium-plated machine bolt and self-locking nut. Apply oil to lubricate and to prevent rust. The Contractor shall paint the identification number of the valve and the controller clock on the cover of the valve box. Valve boxes shall be sized accordingly to allow wires in pull boxes to be loose and maintain a three inch (3") clearance from the lid. All wires in pull boxes shall be loose and shall not come within three inches 75 mm (3 inches) from lid. Boxes shall be sized accordingly to accommodate this requirement.

Last paragraph, ADD the following:

Backflow preventers shall be installed as specified on the contract documents.

308-5.4 Sprinkler Head Installation and Adjustment.

308-5.4.1 General. ADD the following:

Plans are diagrammatic and approximate. Precise location of heads / bubblers shall be field adjusted to meet minor variations in the plan.

308-5.5 Automatic Control System Installation. Third paragraph, REVISE second sentence to read as follows:

When the valve is to be housed in a valve box, it shall be installed with at least a 100 mm (4-inch) minimum to a 150 mm (6-inch) maximum clearance below the cover.

Third paragraph, ADD the following:

Valve boxes shall be set to finish grade on an unmortared brick foundation.

Seventh paragraph, ADD the following:

Controllers, 12 volt conductors and valve actuators shall be installed in conformance with the controller manufacturer's instructions.

Eighth paragraph, ADD the following:

Flow sensor cable and two low voltage conductors shall be installed in conduit from each flow sensor box through the remote control valve (master) to the irrigation controller as shown on the plans. Flow sensor cable shall conform to "Flow Sensor Cable". Control wiring or hydraulic control tubing shall be housed in conduit between the controller and a point at least one foot outside the limits of the controller foundation, or the structure foundation and where the controller is housed. All other wiring and hydraulic control tubing issuing from the conduit shall be direct burial installed in main or lateral water line trenches wherever practicable. The wiring or tubing shall be installed in the lower corner of the irrigation pipeline trench. Sufficient slack shall be left in the wiring or tubing to provide for expansion and contraction. When the control wiring or tubing cannot be installed in a pipe trench, it shall be installed a minimum of 18 inches below finish grade.

308-5.6.1 General. First paragraph, after second sentence, ADD the following:

Flush all pipes clean prior to installing sprinkler heads. Do not allow water from irrigation flushing to enter plant pits where water would result in over-saturation of soil creating an unhealthful condition for plant materials.

308-5.6.2 Pipeline Pressure Test. ADD the following:

Mains larger than 2 inches, asbestos cement mains and mains employing socket and spigot gasket joints shall be tested in accordance with section 306-1.4. If leaks develop, repair leaking portions and repeat test until entire system is proven watertight. Test shall be observed and approved by Resident Engineer prior to backfilling trenches.

308-5.6.3 Sprinkler Coverage Test. ADD the following:

When system is complete, and prior to planting, the Contractor shall perform a coverage test in the presence of the Resident Engineer.

ADD:

308-5.12 Operation and Maintenance Manuals. Prepare and deliver to the Resident Engineer within ten calendar days prior to completion of construction, two (2) three ring hard cover binders containing the following information:

Index sheet stating Contractor's address and telephone number, list of equipment with name and addresses of local manufacturers' representatives.

Catalog and parts sheets on all material and equipment.

Contractor Guarantee statement.

Complete operating and maintenance instructions for all equipment.

In addition to the above mentioned maintenance manuals, provide the maintenance personnel with instructions for maintaining equipment and show evidence of such instruction in writing to the Resident Engineer at the conclusion of the project.

Payment for operation and maintenance manuals shall be included in the lump sum price for irrigation, and no additional compensation shall be allowed.

ADD:

308-5.13 Extra Equipment. Contractor shall provide to the Resident Engineer:

Three (3) keys for opening and locking each automatic controller enclosure.

Two (2) globe valve keys with a minimum four (4) foot long handle.

Five (5) sprinkler heads with nozzles, screens and flexible swing joints of each type used on the project.

Five (5) quick coupler keys with swivel hose ells to match quick coupler valves used on the project.

Payment for extra equipment shall be included in the lump sum price for irrigation system, and no additional payment will be allowed.

308-5.14 Payment For Irrigation System. The contract price paid for Irrigation System shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, all incidentals necessary to provide a complete installation, and for doing all the work involved, including sprinklers, pipe, valves, backflow preventer inspections, valve boxes, controllers, trenching, backfilling, wiring, quick coupler valves, gate valves, mainline, inspections and coordination, and all other components to provide a complete and operable irrigation

system, complete-in-place, as shown on the plans, as specified in these Special Provisions and as directed by the Resident Engineer.

ADD: SECTION 313 - SITE ELECTRICAL

313-1 SURFACE CONDITIONS.

313-1.1 Inspection.

313-1.1.1 Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

313-1.1.2 Verify that all work may be applied in strict accordance with all pertinent codes and regulations and the requirements of these specifications.

313-1.2 Discrepancies.

313-1.2.1 In the event of any discrepancy, immediately notify the Engineer.

313-1.2.2 Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

313-2 CODE COMPLIANCE. All work shall comply with all applicable electric codes and regulations.

313-3 Field Quality Control.

313-3.1 Upon completion of this portion of the work, test all parts of the electrical system in the presence of the Engineer. Demonstrate that all equipment furnished, installed, and/or connected under this section of these specifications functions electrically in the required manner.

313-3.2 Test Requirements.

313-3.2.1 All systems shall test free from short circuits and grounds, shall be free from mechanical and electrical defects, and shall show an insulation resistance between phase conductors and ground of not less than that required by the National Electrical Code.

313-3.2.2 Test all conduits for proper neutral connections.

313-3.3 Record Drawing Documentation.

313-3.3.1 Designate all circuiting control of outlets and other electrical components. Dimension all trench locations on plans to fixed points to clearly delineate locations. Indicate all equipment locations and installations. Mark as-built conditions on a clean set of electrical plans and note any changes and locations in red ink.

313-4 ELECTRICAL CIRCUIT INSTALLATION.

313-4.1 Contractor to verify all service points with SDG&E prior to installation.

313-5 MEASUREMENT AND PAYMENT. The contract unit price per ‘Site Lighting & Electrical’ shall be paid for by the project lump sum and shall include full compensation for furnishing all footings, junction boxes, lamps, luminaries, poles, conduit, wiring, labor, material, equipment, tools and incidentals required to complete the work specified and no additional compensation will be made therefore.

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

314-1.1 General. ADD the following:

This work shall consist of furnishing and placing pavement markers at the locations in accordance with the provisions specified in these Contract Documents and the Manual for Uniform Traffic Control Devices, where noted. The markers shall conform to the shape, dimensions and tolerances shown in the Manual for Uniform Traffic Control Devices (MUTCD). The Contractor shall be fully responsible for any and all layout work.

314-4.1 General. ADD the following:

Accessible parking spaces shall be located as near as practical to a primary entrance and shall be marked according to CBC Section 1129B.3 and 1129B.4.

Surface slopes of accessible parking spaces and access aisles shall be the minimum possible and shall not exceed one unit vertical in 50 units horizontal (2-percent slope) in any direction.

Loading and unloading access aisle shall be marked by a border painted blue. Within the blue border, hatched lines a maximum of 36” on center shall be painted a color contrasting with the parking surface, preferably blue or white. CBC Figures 11B-18A through 11B-18C.

When blue color is used, it shall conform to Color No 15090 per Federal Standard 595B.

Painted lines and markings on pavement are recommended to be 3” wide minimum.

314-5.6 Payment. DELETE in its entirety and REPLACE with the following:

Payment for all work to place pavement markers within the limits of work shall be considered included in the lump sum contract price and shall include full compensation for furnishing all labor, materials, tools and equipment to complete this work in conformity with the Plans, Permits and Specifications and no additional compensation will be made therefore.

ADD:

SECTION 315 – SITE FURNISHINGS INSTALLATION

315-1 GENERAL INSTALLATION REQUIREMENTS. Install all factory-fabricated landscape furnishings per manufacturer's specifications and recommendations. All components shall be firmly and permanently affixed to concrete base or footings to the satisfaction of the Resident Engineer and in conformance with the manufacturer's instructions. Anchor bolts cast into the concrete shall reinforce all attachments. Tamper-resistant connectors shall be used to prevent theft.

See construction plans and details for location and layout and model numbers of furnishings.

Apply anti-graffiti coating as required prior to installation, and after the appropriate curing time for all materials to avoid discoloration.

Clean-up: The site shall be kept clean and free of tools, trash, debris and installation materials on a daily basis. Material may be stored on-site during installation with appropriate protective measures and approval by the resident engineer.

Close out: contractor shall provide the owner with one copy of complete manufacturers installation instructions and maintenance kit.

315-2 ROUND PICNIC TABLE.

315-2.1 Installation. Round picnic tables shall be located where shown on the plans. Install round picnic tables in accordance with manufacturer's instructions and recommendations. Install round picnic tables accurately and in the correct orientation and relationship with the concrete paving as shown on the drawings. Round picnic tables shall be affixed to the concrete pavings with epoxy.

Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from installation work. Protect the round picnic tables from damage throughout construction work.

315-2.2 Measurement and Payment. The contract unit price for 'round picnic tables' shall include full compensation for furnishing all labor, material, equipment, tools and incidentals required to complete the work specified and no additional compensation will be made therefore.

315-3 TRASH RECEPTACLE INSTALLATION.

315-3.1 Installation. Trash receptacles shall be located where shown on the plans. Install trash receptacles in accordance with manufacturer's instructions and recommendations. Install trash receptacles accurately and in the correct orientation and relationship with the concrete paving as shown on the drawings. Trash receptacles shall be affixed to the concrete pavings with epoxy.

Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from installation work.

Protect the trash receptacles from damage throughout construction work.

315-3.2 Measurement and Payment. The contract unit price for ‘trash receptacle’ shall include full compensation for furnishing all labor, material, equipment, tools and incidentals required to complete the work specified and no additional compensation will be made therefore.

315-4 PRECAST CONCRETE DRINKING FOUNTAIN INSTALLATION. Do not install drinking fountain before completion of final grading, and concrete paving.

Examine sub-grades, finished surfaces, and installation conditions. Do not start drinking fountain work until unsatisfactory conditions are corrected.

Remove loose material and debris from base surface before placing drinking fountain.

Locate and layout drinking fountain, boxes and sump and obtain Engineer’s acceptance of layout prior to installation.

Install all drinking fountains per manufacturer’s specifications and/or recommendations and comply with all local plumbing codes. Attach securely to grade as recommended by the manufacturer, using vandal resistant stainless steel anchor bolts appropriate for the installation. Installation shall be secure and stable.

Drinking fountain shall be set in place as indicated on the plans and as approved by the Engineer. Legs shall be fabricated, cut or ground to fit grade to provide a level installation at the specified height. Installed drinking fountain shall be true and square to paving design, installed level and shall not wobble.

Locate and connect to potable water source at existing restroom including trenching and waterline. Check for leaks.

Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from landscape furnishings work.

Protect drinking fountain from damage during construction.

Payment: Drinking Fountain shall be measured for payment by the unit. Payment for Drinking Fountain shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, attachment to surface, plumbing, water connection, shut-off, drain sump and incidentals, and for doing all the work involved in providing the Drinking Fountain, complete in place, as shown on the Plans and as specified in these Special Provisions.

315-5 PLAYER’S BENCH INSTALLATION. Provide and install Player’s Bench as shown on the drawings, and as specified in this section.

The Contractor shall submit the manufacturer’s product data (including finish data) and installation specifications and other data required to demonstrate compliance with the specified item.

Deliver, store, and handle Player's Bench to prevent damage and deterioration.

Do not install Player's Bench before completion of final grading, and concrete paving. Examine sub-grades, finished surfaces, and installation conditions. Do not start landscape accessories work until unsatisfactory conditions are corrected.

Remove loose material and debris from base surface before placing Player's Bench.

Locate and layout all Player's Benches as shown on the plans. Obtain Engineer's acceptance of layout prior to installation. Install all Player's Benches in location indicated on plan. Bench shall not be attached to base material, but shall be moveable.

Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from landscape furnishings work.

Protect Player's Bench from damage during construction.

Payment: Player's Bench shall be measured for payment by the unit (one Player's Bench). Payment for Player's Bench shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, attachment to surface, and incidentals, and for doing all the work involved in providing the players bench, complete in place, as shown on the Plans and as specified in these Special Provisions and directed by the Resident Engineer.

315-7 **BASEBALL BASES AND HOME PLATE INSTALLATION.** Install galvanized base anchors in a concrete footing as indicated on the plans and as recommended by the manufacturer. Base anchors shall be firmly embedded in the concrete and completely flush with the surrounding grade. Bases shall be flush with the adjacent grade. Provide 3 sets of anchor plugs to the Resident Engineer.

Payment: Baseball bases and home plate shall be measured for payment by the unit. Payment for baseball bases shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in providing the baseball bases and home plate, complete in place, as shown on the Plans and as specified in these Special Provisions.

315-8 **PITCHER'S PLATE INSTALLATION.** Install galvanized pitcher's plate anchors in a concrete footing as indicated on the plans and as recommended by the manufacturer. Pitcher's plate anchors shall be firmly embedded in the concrete at the elevation needed for pitcher's plate to be 1" above surrounding grade.

Payment: Pitcher's plate shall be measured for payment by the unit. Payment for pitcher's plate shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in providing the pitcher's plate, complete in place, as shown on the Plans and as specified in these Special Provisions.

315-9

BACKSTOP INSTALLATION. The Contractor shall submit the manufacturer's product data (including finish data) and installation specifications and other data required to demonstrate compliance with the specified item.

Deliver, store, and handle to prevent damage and deterioration.

Do not install Backstop before completion of final grading, and concrete paving. Examine sub-grades, finished surfaces, and installation conditions. Do not start installation work until unsatisfactory conditions are corrected.

Remove loose material and debris from base surface before placing backstop.

Locate and layout all landscape accessory items, and fencing and coordinate backstop with fencing installation. Provide for closure of gap between backstop and fence with vinyl coated chain link fence. Obtain Engineer's acceptance of layout prior to installation.

Install Backstop per manufacturer's specifications and/or recommendations. Attach to concrete footings per details.

Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from backstop work.

Protect backstop from damage during construction.

Payment: Small and Large Backstop shall be measured for payment by the unit. Payment for Small and Large Backstop units shall be included in the lump sum project cost and shall include full compensation for furnishing all labor, materials, tools, equipment, attachment to surface, and incidentals, and for doing all the work involved in providing the Small and Large Backstop units, complete in place, as shown on the Plans and as specified in these Special Provisions.

315-10

CONCRETE WHEEL STOPS INSTALLATION. Provide and install bike racks as shown on the drawings, and as specified in this Section.

The Contractor shall submit the manufacturer's product data (including finish data) and installation specifications and other data required to demonstrate compliance with the specified item.

Deliver, store, and handle materials to prevent damage and deterioration.

Do not install wheel stops before completion of final grading, and concrete paving. Examine sub grades, finished surfaces, and installation conditions. Do not start installation work until unsatisfactory conditions are corrected.

Remove loose material and debris from base surface before placing wheel stops. Locate and layout all wheel stops as shown on the plans. Obtain Engineer's acceptance of layout prior to installation. Wheel stops shall be offset from center of stall slightly to allow contact with car tires. Space between any two wheel stops shall not be less than 3 feet to allow passage of wheel chairs.

Install all wheel stops per manufacturer's specifications and/or recommendations. Anchor wheel stop securely to grade using steel stakes appropriate for the installation as recommended by the manufacturer. Install in neat and orderly lines parallel to the curb or paving. Installation shall be secure and stable, and firmly anchored in the paving.

Perform cleaning during installation of the work and upon completion of the work.

315-11 PREFABRICATED RESTROOM BUILDING.

315-11.1 General. Provide and install prefabricated restroom building as shown on the drawings, and as specified in this section. Installation shall be complete and inclusive of all materials, labor and other items required to assemble and attach the structure to the concrete slab. All portions of the interior of the structure shall be water tight and free of leaks. Provide all openings with a vandal resistant locking mechanism and locks.

315-11.2 Submittals. The Contractor shall submit the manufacturer's product data (including finish data) and installation specifications and other data required to demonstrate compliance with the specified item. All electrical submittals will be reviewed thru Facilities Division Electrical crew. All comments will be in writing within five days. Provide specified improvements or 'or equal' items for light fixtures, switches, receptacles and all other electrical equipment.

315-11.3 Inspections. Contractor shall schedule a Final Walk Thru with the City of San Diego to review all improvements as installed and to develop a punch list for any outstanding items that need to be addressed prior to final acceptance of the installed improvements.

315-11.3.1 Electrical Systems Manuals and Training. All manuals and training on all electrical systems will be done at this time, which includes, but not limited to: testing of emergency systems, time clocks, lights, and any other electrical hardware. Provide one set of As-Built plans, spec books, and submittals.

315-11.3.1.1 Manuals and Documentation.

a) The Contractor will furnish operation and maintenance manuals for each electrical system and each piece of equipment. The complete manual, bound in hardback binders, or an approved equivalent will be provided to the Owner's Representative. The number of copies will be as indicated in Division 1. One manual will be furnished prior to the time that the system or equipment tests are performed to the electrical shop:

City of San Diego
General Services / Facilities Division
Electrical Crew, Suite A, Bldg 38
San Diego, CA 92102

b) The remaining manuals will be furnished before the contract is completed. The following identification will be inscribed on the cover; the words "OPERATING AND MAINTENANCE MANUAL", the name and location of the building, the name of the Contractor and the contract number. The manual

will include the names, address, and telephone numbers of each Subcontractor installing equipment and systems, and of the local representatives for each item of equipment and each system.

- c) The manual will have a table of contents and be assembled to conform to the table of contents with tab sheets placed before instructions covering each subject. The instruction sheets will be legible with large sheets of drawings folded in. The manual will include, but not limited to, the following:
 - 1. System layout showing components.
 - 2. Devices and controls.
 - 3. Wiring and control diagrams showing operation and control of each component.
 - 4. Sequence of operation describing start-up, operation, and shutdown.
 - 5. Functional description of the principal system components.
 - 6. Installation instructions.
 - 7. Maintenance and overhaul instructions.
 - 8. Lubrication schedule including type, grade, temperature range, and frequency.
 - 9. Safety precautions, diagrams and illustrations.

315-11.3.2.1 Training.

- a) User staff and maintenance personnel will be thoroughly trained (minimum of 4 hours) in the use of each system or major piece of equipment installed. The training will be provided as a part of the Contractors bid to supply the system of equipment. Additional training requirements, will be as specified in the subsequent sections of Division 16.
- b) It will be the responsibility of the Contractor to provide equipment with the proper electrical characteristics for the electrical service provided. All necessary electrical components to provide a complete system will be furnished.

315-11.4 Delivery. Deliver, store, and handle all materials to prevent damage and deterioration. Do not install prefab steel storage building before completion of final grading.

315-11.5 Execution.

315-11.5.1 Survey Stakes. Provide 10-foot offset stakes and locate front corners of building, existing utilities, and inverts within the area of construction. Locate and mark final slab elevation.

315-11.5.2 Sub-grade Pad. Prepare the building pad location as follows:

1. Excavate down ten inches below the finish floor elevation (the slab is eight inches thick on top of a two inch sand bed).
2. If soils are poor, it may be necessary to import six inches of Class II base rock. (This is not necessary if native soils will compact)
3. Compact to 95%, or to local code requirement.
4. Compact one foot over in all directions (over build).
5. Supply approximately fourteen (14) cubic yards of clean sand, on side of site, for fine grading.
6. Excavate and backfill trenches for underground plumbing and utility kit.
7. Depending on weather, all irrigation should be turned off prior to delivery to allow the surrounding soils to dry and bear the weight of the truck and crane.
8. Check corner locations against plans for proper sizing.
9. Verify finish floor elevation for concrete slab (**shipped fully attached to the building.**)
10. Excavate one foot perimeter footing if required by local code to specified depth.

315-11.5.3 Site Access and Storage.

- a) Provide suitable safe clear access to allow a crane (up to 110 tons), and the building on a semi-trailer (up to 40 tons) to reach site (14' width, 70' length and 14' in height).
- b) If path to site is over existing utilities, sidewalks, or other damageable areas, proper marking, plating or other appropriate protection must be provided by the General Contractor.
- c) The General Contractor is responsible for removing any overhead obstructions (i.e. power lines, trees, etc).

315-11.5.4 Utilities.

- a) Bring water, sewer, and power (if applicable) utilities into point of connection Christy boxes (supplied by manufacturer), within six feet of the building line at the location shown on building construction drawings.
 1. Water: Manufacturer will furnish and install a water point of connection (isolation valve), from mechanical chase to a Christy box six feet from the building line. GENERAL CONTRACTOR must connect service to valve.
 2. Sewer: Manufacturer will furnish and install a sewer point of connection from mechanical chase to a Christy box six feet from the building line. GENERAL CONTRACTOR must connect service.

3. Electrical: Manufacturer will furnish and install a PVC conduit and a Christy box to the point of connection six feet from the building line. GENERAL to pull the electrical service line through the conduit and connect to the main panel lugs inside the building. All electrical inside the building will be furnished and installed by Manufacturer, except as noted above in exclusions.
4. If the utilities are not available when we depart the site, testing and minor leaks will be the responsibility of the GENERAL CONTRACTOR.

315-11.5.5 Payment. The contract unit price paid per pre-engineered restroom building shall be paid by the project lump sum and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in providing the pre-engineered restroom building, complete in place, as shown on the Plans and as specified in these Special Provisions. The price paid for pre-engineered restroom building shall be included in the lump sum project price and no additional payment made therefore.

ADD: SECTION 316 - STREET SIGNAGE

316-1 SIGNS.

Install signs in conformance with the City of San Diego standards for signs. California Park Bond Act Sign shall be provided by the City for installation by Contractor on two 2” diameter galvanized steel posts with min. 2 cubic foot concrete footings. Signs shall be upright, stable, and shall be thoroughly cleaned after installation.

316-1.1 Measurement and Payment. Signs shall be measured and paid for by each unit and shall be included in the overall project lump sum cost and include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in providing the signs, complete in place, as shown on the Plans and as specified in these Special Provisions.

SECTION 400 - ALTERNATE ROCK PRODUCTS, ASPHALT CONCRETE, PORTLAND CEMENT CONCRETE, AND UNTREATED BASE MATERIAL

400-2 UNTREATED BASE MATERIALS.

400-2.2 Disintegrated Granite. Replace the term “disintegrated granite” with “stabilized decomposed granite” and ADD the following:

Decomposed granite shall be beige-colored “Caramel Apple”, 6” thickness as indicated on the plans, as supplied by Decorative Stone Solutions, or approved equal.

The path must designate 48" minimum width within the boundary edge. Passing areas must be located every 200' minimum, if path is 48" width. Paths of 60" or greater do not require passing areas. The designated path must be clearly discernible from adjacent surfaces and located within a boundary edged, header or otherwise contained. There must be a soils report or soils engineer evaluation provided to evaluate if a sub-base for the path will remain stable.

The decomposed granite path surfacing must be compacted to a minimum of 95%. The decomposed granite pathway material must contain a binder to maintain the firmness and stable surface. The Contractor shall provide product data and testing information to confirm that material contains the binder materials at rates as recommended by the manufacturer.

A maintenance program as defined by the product manufacturer shall be implemented to maintain the original specifications of the constructed path as required by CBC 1101B.3. The maintenance program shall address the weather and wear and tear related maintenance practices.

ADD:

400-2.3 Stabilizer For Decomposed Granite. Stabilizer for decomposed granite shall be a commercially produced, patented, non-toxic organic binder. It shall be colorless, odorless, concentrated powder that naturally binds decomposed granite. Stabilizer is available at Decorative Stone Solutions or approved equivalent. Stabilizer shall be thoroughly pre-blended with the decomposed granite at the manufacturing facility.

ADD:

400-2.4 Stabilized Decomposed Granite Installation. Install stabilized decomposed granite surfacing as follows:

- a) Excavate to allow installation of decomposed granite flush with adjacent grade. Moisture compact sub-grade 90% density to a depth of 8".
- b) Apply two applications of pre-emergent herbicide (See Section 212-1.2.7). Apply once before and once following placement of the decomposed granite.
- c) Pre-blend stabilized decomposed granite at the rate of 10 lbs. of stabilizer per ton of decomposed granite at the manufacturing facility. Blending may be done with cement mixer, pug mill, or any similar piece of equipment to thoroughly and completely blend the stabilizer with the decomposed granite material. It is essential that the stabilizer be mixed thoroughly and uniformly through the decomposed granite. Proper mixing is a must for successful application.
- d) Apply mixture in one inch lifts to a compacted depth as shown on the plans.
- e) Grade and smooth stabilized decomposed granite.
- f) Apply water until moisture penetrates to full depth of the stabilized decomposed granite. Water activates stabilizer, so it is essential that the full depth of the material receives water at this time. To allow water to penetrate, the stabilized decomposed granite should be applied in two lifts.
- g) Upon thorough moisture penetration, compact each lift of the stabilized decomposed granite. Compaction shall be done with a vibrating roller. Finish grade shall be level with adjacent concrete grades.

- h) Allow finished surface enough time to dry completely before use. Set up time varies, depending upon weather conditions. A hot, dry climate will set up sooner than cooler, moist climate.
- i) Make one additional pre-emergent application one week prior to substantial completion.

ADD:

400-2.5 Stabilized Decomposed Granite Paving Measurement & Payment. Stabilized Decomposed Granite Paving shall be measured and paid by the total cubic yards and paid within the total lump sum project cost and shall be installed complete and in place and shall include full compensation for furnishing all material, delivery, placement, fees, labor, equipment, water, Class II base materials, tools and incidentals required to complete the work specified and no additional compensation will be made therefore.

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 **Notice of Exemption** for **Wegeforth Elementary School Joint Use Park Improvements**, as referenced in the Contract Appendix. You must comply with all requirements of the **Notice of Exemption** as set forth in the Contract Appendix A.

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

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

SUPPLEMENTARY SPECIAL PROVISIONS

APPENDICES

APPENDIX A
NOTICE OF EXEMPTION

NOTICE OF EXEMPTION

TO: X RECORDER/COUNTY CLERK
P.O. BOX 1750, MS A-33
1600 PACIFIC HWY, ROOM 260
SAN DIEGO, CA 92101-2422

FROM: CITY OF SAN DIEGO
DEVELOPMENT SERVICES DEPARTMENT
1222 FIRST AVENUE, MS 501

OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121

PROJECT NO.:

PROJECT TITLE: **WEGEFORTH ELEMENTARY SCHOOL -- JOINT USE IMPROVEMENTS**

PROJECT LOCATION-SPECIFIC: Construction of the project would occur at an existing school facility located at 9020 Village Glen Dr, San Diego. The project site is within the Serra Mesa Community Plan area.

PROJECT LOCATION-CITY/COUNTY: City and County of San Diego.

DESCRIPTION OF PROJECT Design and construction of approximately 4.0 acres of joint use facilities at an existing elementary school facility. Park improvements include open turf area for active recreation, running track, concrete picnic tables, landscaping, comfort station and accessibility upgrades. The project is not within areas identified on any government hazardous materials list and no archaeological or biological resources would be impacted with implementation of this project.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT Ana del Rincon, City of San Diego Engineering and Capital Projects, 600 B Street #800, San Diego, CA 92101

EXEMPT STATUS: (CHECK ONE)

- MINISTERIAL (SEC. 15268)
- DECLARED EMERGENCY [SEC. 15269 (A)]
- EMERGENCY PROJECT [SEC. 15269 (B) AND (C)]
- CATEGORICAL EXEMPTION (STATE TYPE AND SECTION NUMBER): Section 15301 Existing Facilities; Section 15302 Replacement or Reconstruction; Section 15303 New Construction or Conversion of Small Structures
- OTHER (STATE TYPE AND SECTION NUMBER):

REASONS WHY PROJECT IS EXEMPT: This project is categorically exempt from CEQA as it consists of minor construction and replacement activities at an existing facility.

CONTACT PERSON: Myra Herrmann

TELEPHONE: 619-446-5372

IF FILED BY APPLICANT:

1. ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING.
2. HAS A NOTICE OF EXEMPTION BEEN FILED BY THE PUBLIC AGENCY APPROVING THE PROJECT?

YES NO

Myra Herrmann
SIGNATURE/TITLE

7/27/09 FILED
DATE David Butler, Recorder/County Clerk

CHECK ONE:

- SIGNED BY LEAD AGENCY
- SIGNED BY APPLICANT

DATE RECEIVED FOR FILING: _____ BY L Kesian DEPUTY

JUL 30 2009

APPENDIX B
FIRE HYDRANT METER PROGRAM

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| 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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| CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS | NUMBER DI 55.27 | DEPARTMENT Water Department |
| SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM) | PAGE 9 OF 10 | EFFECTIVE DATE October 15, 2002 |
| | SUPERSEDES DI 55.27 | DATED April 21, 2000 |

7. **FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. **UNAUTHORIZED USE OF WATER FROM A HYDRANT**

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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

- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

**Larry Gardner
Water Department Director**

- Tabs: 1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index: Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders



Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

| | |
|--------|------|
| NS REQ | FAC# |
| DATE | BY |

METER SHOP (619) 527-7449

Meter Information

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

| | | |
|--|------|------------------------------|
| Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) Zip: | T.B. | G.B. (CITY USE) |
| Specific Use of Water: | | |
| Any Return to Sewer or Storm Drain, If so, explain: | | |
| Estimated Duration of Meter Use: | | Check Box if Reclaimed Water |

Company Information

| | | | |
|---|--------|----------------------|------------|
| Company Name: | | | |
| Mailing Address: | | | |
| City: | State: | Zip: | Phone: () |
| *Business license# | | *Contractor license# | |
| A Copy of the Contractor's license OR Business License is required at the time of meter issuance. | | | |
| Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small> | | | Phone: () |
| Site Contact Name and Title: | | | Phone: () |
| Responsible Party Name: | | | Title: |
| Cal ID# | | | Phone: () |
| Signature: | | Date: | |
| Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter | | | |

| | |
|---|-------------------------|
| Fire Hydrant Meter Removal Request | Requested Removal Date: |
| Provide Current Meter Location if Different from Above: | |
| Signature: | Title: Date: |
| Phone: () | Pager: () |

| | | | |
|--|------------|----------------------------------|----------------------------------|
| <input type="checkbox"/> | City Meter | <input type="checkbox"/> | Private Meter |
| Contract Acct #: | | Deposit Amount: \$ 936.00 | Fees Amount: \$ 62.00 |
| Meter Serial # | | Meter Size: 05 | Meter Make and Style: 6-7 |
| Backflow # | | Backflow Size: | Backflow Make and Style: |
| Name: Wegeforth Elementary School Joint Use Park Improvement | | Signature: | Date: 127 Page |
| Appendix B – Fire Hydrant Meter Program | | | |

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number: _____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # _____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) _____ - _____.

Sincerely,

Water Department

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D
SAMPLE CITY INVOICE

| City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123 | | | | | | Contractor's Name: | | | | | |
|---|----------------------------------|------------------------|----------|--------------|---------------|---|--------|---------------|-----------------|----------------|--------|
| Project Name: | | | | | | Contractor's Address: | | | | | |
| SAP No. (WBS/IO/CC) | | | | | | | | | | | |
| City Purchase Order No. | | | | | | Contractor's Phone #: | | | Invoice No. | | |
| Resident Engineer (RE): | | | | | | Contractor's Fax #: | | | Invoice Date: | | |
| RE Phone#: | | | RE Fax#: | | | Contact Name: | | | Billing Period: | | |
| Item # | Item Description | Contract Authorization | | | | Previous Estimate | | This Estimate | | Totals to Date | |
| | | Unit | Qty | Price | Extension | %/QTY | Amount | % / QTY | Amount | % / QTY | Amount |
| 1 | 2 Parallel 4" PVC C900 | LF | 1,380 | \$34.00 | \$46,920.00 | | | | | | |
| 2 | 48" Primary Steel Casing | LF | 500 | \$1,000.00 | \$500,000.00 | | | | | | |
| 3 | 2 Parallel 12" Secondary Steel | LF | 1,120 | \$53.00 | \$59,360.00 | | | | | | |
| 4 | Construction and Rehab of PS 49 | LS | 1 | \$150,000.00 | \$150,000.00 | | | | | | |
| 5 | Demo | LS | 1 | \$14,000.00 | \$14,000.00 | | | | | | |
| 6 | Install 6' High Chain Link Fence | LS | 1 | \$5,600.00 | \$5,600.00 | | | | | | |
| 7 | General Site Restoration | LS | 1 | \$3,700.00 | \$3,700.00 | | | | | | |
| 8 | 10" Gravity Sewer | LF | 10 | \$292.00 | \$2,920.00 | | | | | | |
| 9 | 4" Blow Off Valves | EA | 2 | \$9,800.00 | \$19,600.00 | | | | | | |
| 10 | Bonds | LS | 1 | \$16,000.00 | \$16,000.00 | | | | | | |
| 11 | Field Orders | AL | 1 | 80,000 | \$80,000.00 | | | | | | |
| 11.1 | Field Order 1 | LS | 5,500 | \$1.00 | \$5,500.00 | | | | | | |
| 11.2 | Field Order 2 | LS | 7,500 | \$1.00 | \$7,500.00 | | | | | | |
| 11.3 | Field Order 3 | LS | 10,000 | \$1.00 | \$10,000.00 | | | | | | |
| 11.4 | Field Order 4 | LS | 6,500 | \$1.00 | \$6,500.00 | | | | | | |
| 12 | Certified Payroll | LS | 1 | \$1,400.00 | \$1,400.00 | | | | | | |
| CHANGE ORDERS | | | | | | | | | | | |
| Change Order 1 | | | 4,890 | | | | | | | | |
| Items 1-4 | | | | | \$11,250.00 | | | | | | |
| Item 5-Deduct Bid Item 3 | | LF | 120 | -\$53.00 | (\$6,360.00) | | | | | | |
| Change Order 2 | | | 160,480 | | | | | | | | |
| Items 1-3 | | | | | \$95,000.00 | | | | | | |
| Item 4 Deduct Bid Item 1 | | LF | 380 | -\$340.00 | (\$12,920.00) | | | | | | |
| Item 5-Encrease bid Item 9 | | LF | 8 | \$9,800.00 | \$78,400.00 | | | | | | |
| Change Order 3 (Close Out) | | | -121,500 | | | | | | | | |
| Item 1 Deduct Bid Item 3 | | | 53 | -500.00 | (\$26,500.00) | | | | | | |
| Item 2 Deduct Bid Item 4 | | LS | -1 | 45,000.00 | (\$45,000.00) | | | | | | |
| Items 3-9 | | | 1 | -50,500.00 | (\$50,500.00) | | | | | | |
| SUMMARY | | | | | | | | Total This | \$ - | Total Billed | \$0.00 |
| A. Original Contract Amount | | | | | | Retention and/or Escrow Payment Schedule | | | | | |
| B. Approved Change Order 1 Thru 3 | | | | | | Total Retention Required as of this billing | | | | | |
| C. Total Authorized Amount (A+B) | | | | | | Previous Retention Withheld in PO or in Escrow | | | | | |
| D. Total Billed to Date | | | | | | Add'l Amt to Withhold in PO/Transfer in Escrow: | | | | | |
| E. Less Total Retention (5% of D) | | | | | | Amt to Release to Contractor from PO/Escrow: | | | | | |
| F. Less Total Previous Payments | | | | | | | | | | | |
| G. Payment Due Less Retention | | | | | | Contractor Signature and Date: | | | | | |
| H. Remaining Authorized Amount | | | | | | | | | | | |

APPENDIX E
LOCATION MAP

WEGEFORTH ELEMENTARY JOINT USE PARK IMPROVEMENTS

PROJECT OFFICER II
Kevin Oliver

PROJECT MANAGER
Ana Del Rincon

PROJECT ADDRESS
3443 Ediwhar Ave.
San Diego, CA 92123



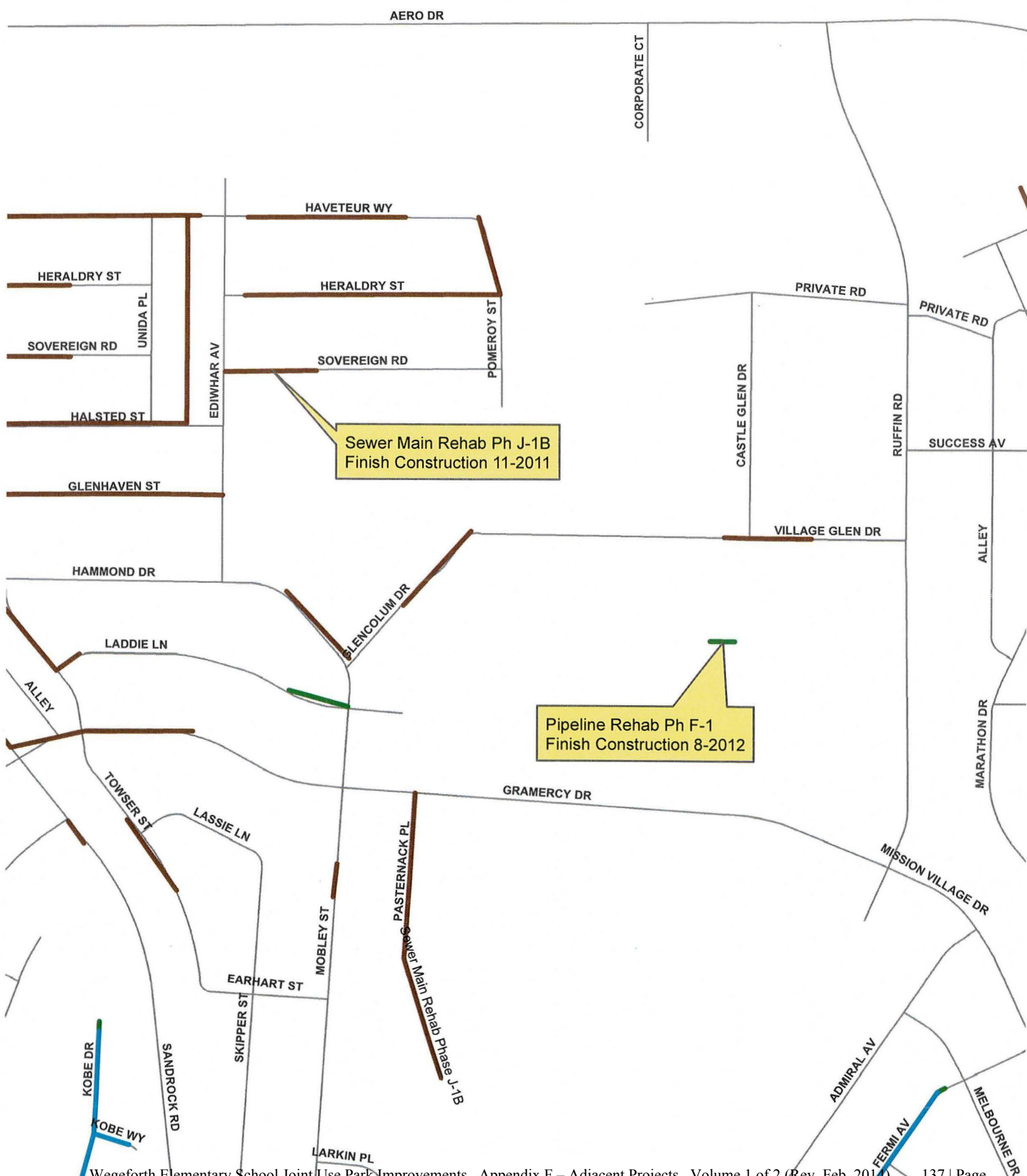
JOB SITE



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APPENDIX F
ADJACENT PROJECTS



Sewer Main Rehab Ph J-1B
Finish Construction 11-2011

Pipeline Rehab Ph F-1
Finish Construction 8-2012

Sewer Main Rehab Phase J-1B

APPENDIX G
GEOTECHNICAL INVESTIGATIONS
MARCH 28, 2011

GEOTECHNICAL INVESTIGATION

WEGEFORTH JOINT-USE PARK SAN DIEGO, CALIFORNIA



GEOCON
INCORPORATED

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

PREPARED FOR

**ESTRADA LAND PLANNING
SAN DIEGO, CALIFORNIA**

**MARCH 28, 2011
PROJECT NO. G1335-42-01**



Project No. G1335-42-01
March 28, 2011

Estrada Land Planning
755 Broadway Circle, Suite 300
San Diego, California 92101

Attention: Mr. Kevin Nguyen

Subject: WEGEFORTH JOINT-USE PARK
SAN DIEGO, CALIFORNIA
GEOTECHNICAL INVESTIGATION

Dear Mr. Nguyen:

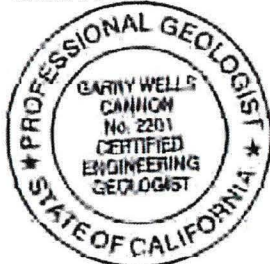
In accordance with your authorization and our proposal (LG-09298, dated November 18, 2009), we are submitting the results of our geotechnical investigation for the proposed improvements on the subject site. The accompanying report presents the findings and conclusions from our study. Based on the results of our study, it is our opinion that the improvements can be constructed as proposed, provided the recommendations of this report are followed.

If you have any questions regarding this investigation, or if we may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON INCORPORATED

Garry W. Cannon
CEG 2201
RCE 56468



GWC:RCM:dmc

Rodney C. Mikesell
GE 2533



(6) Addressee

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LIMITATIONS AND UNIFORMITY OF CONDITIONS

MAPS AND ILLUSTRATIONS

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APPENDIX A

FIELD INVESTIGATION

- Figures A-1 – A-4, Logs of Trenches T-1 through T-8

APPENDIX B

LABORATORY TESTING

- Table B-I, Summary of Laboratory Maximum Dry Density and Optimum Moisture Content Test Results
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APPENDIX C

RECOMMENDED GRADING SPECIFICATIONS

LIST OF REFERENCES

GEOTECHNICAL INVESTIGATION

1. PURPOSE AND SCOPE

This report presents the results of our geotechnical investigation for the planned improvements for Wegeforth Joint-Use Park, located east of Wegeforth Elementary School in San Diego, California (see Vicinity Map, Figure 1). The purpose of the investigation was to investigate the soil and geologic conditions and geotechnical constraints that may impact areas of proposed development as shown on the Trench Location Map, Figure 2. This report provides recommendations relative to the geotechnical engineering aspects of developing the project as presently proposed based on the conditions encountered during this investigation.

The scope of our investigation included a site reconnaissance, field investigation, engineering analyses and preparation of this report. The field investigation included excavating 8 exploratory trenches to examine and characterize the existing soils within the area of planned development. Additionally, we conducted two field-saturated hydraulic conductivity tests. Logs of the exploratory trenches and a detailed discussion of the field investigation are presented in Appendix A.

We performed laboratory tests on selected soil samples obtained during the field investigation to evaluate pertinent physical properties for engineering analyses and to assist in providing recommendations for foundation and pavement design criteria. Details of the laboratory testing and a summary of the test results are presented in Appendix B.

The base map used to generate Figure 2 is an AutoCAD file titled *Wegeforth Joint Use Park, Proposed General Development Plan, San Diego, California*, prepared by Estrada Land Planning, dated November 12, 2009. Figure 2 presents the approximate location of the exploratory trenches and permeameter tests and the layout of the planned improvements. The conclusions and recommendations presented herein are based on analyses of the data obtained from the field investigation, laboratory tests, and our experience with similar soil and geologic conditions.

2. SITE AND PROJECT DESCRIPTION

The site is located east of Wegeforth Elementary School, north of Glencolum Drive, south of residential homes on Sovereign Road, and west of the Wegeforth Children's Center (see Figure 1). Currently, the site is utilized as a dirt playground area for Wegeforth Elementary school. The topography of the site is flat with elevations ranging from 399 to 401 feet above Mean Sea Level (MSL). Several underground utilities cross the site including storm drain, fire service, and communication/electrical conduits.

Based on discussions with you and our understanding of the project, improvements at the site will consist of constructing softball/baseball and soccer fields, a decomposed-granite (DG) paved jogging trail, restroom building, concrete hardscape, and parking lot. In addition, associated landscaping will be constructed along the north, south, and east boundary edges of the site. A mounded lawn will be graded on the northeast corner of the site.

The site description and proposed development are based on discussions with you, a site reconnaissance, and review of the referenced site plan. If development plans differ from those described herein, Geocon Incorporated should be contacted for review of the plans and possible revisions to this report.

3. SOIL AND GEOLOGIC CONDITIONS

During our field investigation, we encountered undocumented fill overlying very old paralic deposits (Qvop8) (formerly known as Lindavista Formation). The undocumented fill and Lindavista Formation are described below.

3.1 Undocumented Fill

Undocumented fill soil was encountered in each trench to depths of approximately 6 to 12 inches below existing grade, with the exception of T-6, which encountered a storm drain at 2.5 feet. The undocumented fill generally consisted of loose, moist to wet, silty, fine to coarse sand. Near trench T-6, the ground surface appeared to be soft to a depth of approximately 4.5 feet. We expect the remainder of utility trenches throughout the site are similar to the area of T-6 and have been backfilled with similar material. The undocumented fill is considered unsuitable and should be recompacted in areas of structural improvements.

3.2 Linda Vista Formation

With the exception of trench T-6, we encountered Lindavista Formation in all exploratory trenches. Based on the *Geologic Map of San Diego by Kennedy and Tan (2005)*, the old terrace deposits is mapped as Very Old Paralic Deposits (Qvop8). The terrace deposits consist of dense to very dense, stiff to hard, moist to wet, yellow red brown red brown and olive to dark olive, silty to clayey sand and sandy clay. The clayey portion of the Lindavista Formation is moderate to highly expansive. The Lindavista Formation is suitable for the support of settlement-sensitive structures and planned improvements. Foundation and concrete slabs-on-grade will need to be designed for expansive soil conditions.

4. GROUNDWATER

We did not encounter groundwater at the time of this investigation. However, it is not uncommon for groundwater or seepage conditions to develop where none previously existed. Groundwater elevations are dependent on seasonal precipitation, irrigation, and land use, among other factors, and vary as a result. Proper surface drainage will be important to future performance of the project.

5. GEOLOGIC HAZARDS

5.1 Faulting and Seismicity

The City of San Diego Seismic Safety Study, Geologic Hazards and Faults, Map Sheet 26 defines the site with a Hazard Category 52: *Other level areas, gently sloping to steep terrain, favorable geologic structure, low risk*. A review of the referenced geologic materials and our knowledge of the general area indicate that the site is not underlain by active, potentially active, or inactive faults. The California Geological Survey (CGS) defines an active fault as a fault showing evidence for activity within the last 11,000 years. The site is not located within State of California Earthquake Fault Zone. It is our opinion that there are no active or presumed active faults crossing the site.

The computer program *EZ-FRISK* (Version 7.52) located 7 known active faults within a of 50 miles search radius centered on the property. The nearest known active fault is the Rose Canyon Fault, located approximately 17 miles west of the site and is considered the dominant source of potential ground motion. Earthquakes that might occur on the Rose Canyon Fault Zone or other faults within the southern California and northern Baja California area are potential generators of significant ground motion at the site. The estimated deterministic maximum earthquake magnitude and peak ground acceleration for the Rose Canyon Fault are 7.2 and 0.38g, respectively. Table 5.1.1 lists the estimated maximum earthquake magnitude and peak ground acceleration for the ten most dominant faults in relationship to the site location. We calculated peak ground acceleration (PGA) using Boore-Atkinson (2008) NGA USGS2008, Campbell-Bozorgnia (2008) NGA USGS, and Chiou-Youngs (2008) NGA acceleration-attenuation relationships.

**TABLE 5.1.1
DETERMINISTIC SPECTRA SITE PARAMETERS**

| Fault Name | Distance from Site (miles) | Maximum Earthquake Magnitude (Mw) | Peak Ground Acceleration | | |
|----------------------------|----------------------------|-----------------------------------|--------------------------|-----------------------------|-----------------------|
| | | | Boore-Atkinson 2008 (g) | Campbell-Bozorgnia 2008 (g) | Chiou-Youngs 2008 (g) |
| Rose Canyon | 4 | 7.2 | 0.31 | 0.33 | 0.38 |
| Coronado Bank | 17 | 7.6 | 0.19 | 0.14 | 0.17 |
| Newport-Inglewood offshore | 30 | 7.1 | 0.10 | 0.08 | 0.07 |
| Elsinore-Julian | 36 | 7.1 | 0.09 | 0.06 | 0.06 |
| Elsinore-Temecula | 40 | 6.8 | 0.07 | 0.05 | 0.04 |
| Earthquake Valley | 41 | 6.5 | 0.05 | 0.04 | 0.03 |
| Elsinore-Coyote Mountain | 46 | 6.8 | 0.06 | 0.05 | 0.03 |

We used the computer program *EZ-FRISK* to perform a probabilistic seismic hazard analysis. The computer program *EZ-FRISK* (version 7.52) operates under the assumption that the occurrence rate of earthquakes on each mapped Quaternary fault is proportional to the faults slip rate. The program accounts for earthquake magnitude as a function of fault rupture length, and site acceleration estimates are made using the earthquake magnitude and distance from the site to the rupture zone. The program also accounts for uncertainty in each of following: (1) earthquake magnitude, (2) rupture length for a given magnitude, (3) location of the rupture zone, (4) maximum possible magnitude of a given earthquake, and (5) acceleration at the site from a given earthquake along each fault. By calculating the expected accelerations from considered earthquake sources, the program calculates the total average annual expected number of occurrences of site acceleration greater than a specified value. We utilized acceleration-attenuation relationships suggested by Boore-Atkinson (2008) NGA USGS, Campbell-Bozorgnia (2008) NGA USGS, and Chiou-Youngs (2008) in the analysis. Table 5.1.2 presents the site-specific probabilistic seismic hazard parameters including acceleration-attenuation relationships and the probability of exceedence.

**TABLE 5.1.2
PROBABILISTIC SEISMIC HAZARD PARAMETERS**

| Probability of Exceedence | Peak Ground Acceleration | | |
|---------------------------|--------------------------|------------------------------|------------------------|
| | Boore-Atkinson, 2008 (g) | Campbell-Bozorgnia, 2008 (g) | Chiou-Youngs, 2008 (g) |
| 2% in a 50 Year Period | 0.49 | 0.52 | 0.60 |
| 5% in a 50 Year Period | 0.35 | 0.37 | 0.42 |
| 10% in a 50 Year Period | 0.26 | 0.27 | 0.30 |

The California Geologic Survey (CGS) has a program that calculates the ground motion for a 10 percent of probability of exceedence in 50 years based on an average of several attenuation relationships. Table 5.1.3 presents the calculated results from the *Probabilistic Seismic Hazards Mapping Ground Motion* Page from the CGS website.

**TABLE 5.1.3
PROBABILISTIC SITE PARAMETERS FOR SELECTED FAULTS
CALIFORNIA GEOLOGIC SURVEY**

| Calculated Acceleration (g) Firm Rock | Calculated Acceleration (g) Soft Rock | Calculated Acceleration (g) Alluvium |
|--|--|---|
| 0.25 | 0.28 | 0.31 |

While listing peak accelerations is useful for comparison of potential effects of fault activity in a region, other considerations are important in seismic design, including the frequency and duration of motion and the soil conditions underlying the site. Seismic design of the structures should be evaluated in accordance with the California Building Code (CBC) guidelines.

5.2 Ground Rupture

The risk associated with ground rupture hazard is very low due to the absence of active faults at the subject site.

5.3 Liquefaction and Seismically Induced Settlement

The risk associated with soil liquefaction hazard at the site is low due to the dense nature and near-surface elevations of the formational soil and lack of near surface groundwater.

5.4 Landslides

Based on our review of published geologic maps for the site vicinity, it is our opinion landslides are not present at the property or at a location that could impact the site.

6. CONCLUSIONS AND RECOMMENDATIONS

6.1 General

- 6.1.1 Based on the results of this investigation, the site is suitable for the proposed improvements, provided the recommendations presented herein are incorporated into the design and construction of the project.
- 6.1.2 The site is generally underlain by approximately 0.5 to 1 foot of undocumented fill overlying the Lindavista Formation (very old paralic deposits). Moisture conditioning and recompaction of the upper 12 inches of exposed soil will be required in areas to receive structural fill or settlement-sensitive improvements. Additionally, portions of the near surface soils are expansive and structural improvements will need to be designed for expansive soils. Where existing utility lines are present in structural improvement areas, deeper removals will be required where soft soil is encountered.
- 6.1.3 We did not encounter groundwater at the time of our investigation. With the exception of retaining wall subdrains (if any), no other drains will be required on the project.
- 6.1.4 The site is located approximately 2 miles from the nearest active fault, the Rose Canyon Fault Zone. Based on our background research, it is our opinion active or potentially active faults do not cross the site.
- 6.1.5 The risk associated with geologic hazards due to ground rupture, seiches and tsunamis, liquefaction, and landslides is considered to be very low.
- 6.1.6 The proposed restroom building can be supported on conventional shallow foundation system.

6.2 Excavation and Soil Characteristics

- 6.2.1 Excavation of the site soil should be possible with moderate to heavy effort using conventional heavy-duty equipment. Excavation of the Lindavista Formation may generate some oversized material, (rocks greater than 12-inches in dimension) and should be taken into consideration into the type of equipment used for foundation excavation.
- 6.2.2 The soil encountered in the field investigation is considered to be “expansive/non-expansive” (expansion index [EI] of greater than 20/less than 20) as defined by 2010 California Building Code (CBC) Section 1803.5.3. Table 6.2 presents soil classifications

based on the expansion index. The soils encountered during the investigation had an expansion index varying from 4 to 87.

**TABLE 6.2
SOIL CLASSIFICATION BASED ON EXPANSION INDEX**

| Expansion Index (EI) | Soil Classification |
|----------------------|---------------------|
| 0 – 20 | Very Low |
| 21 – 50 | Low |
| 51 – 90 | Medium |
| 91 – 130 | High |
| Greater Than 130 | Very High |

6.2.3 We performed laboratory tests on samples of the site materials to evaluate the percentage of water-soluble sulfate content. Results from the laboratory water-soluble sulfate content tests are presented in Appendix B and indicate that the on-site materials at the locations tested possess “negligible” sulfate exposure to concrete structures as defined by 2010 CBC Section 1904.3 and ACI 318-08 Sections 4.2 and 4.3. The presence of water-soluble sulfates is not a visually discernible characteristic; therefore, other soil samples from the site could yield different concentrations. Additionally, over time landscaping activities (i.e., addition of fertilizers and other soil nutrients) may affect the concentration.

6.2.4 Geocon Incorporated does not practice in the field of corrosion engineering. Therefore, if improvements that could be susceptible to corrosion are planned, further evaluation by a corrosion engineer should be performed.

6.3 Grading

6.3.1 Grading should be performed in accordance with the *Recommended Grading Specifications* contained in Appendix C. **Where the recommendations of Appendix C conflict with this section of the report, the recommendations of this section take precedence.**

6.3.2 Site preparation should begin with removal of deleterious material and vegetation. The depth of removal should be such that material exposed in cut areas or soil to be used for fill is relatively free of organic matter. Deleterious material generated during stripping and/or site demolition should be exported from the site.

6.3.3 In areas that will receive settlement sensitive structures or surface improvements (concrete hardscape, pavement, DG trail, etc.) the upper 1 foot of soil below existing grade should be

scarified, moisture conditioned to above optimum moisture content, and recompacted to a dry density of at least 90 percent of maximum dry density near as determined in accordance with ASTM Test Procedure D 1557. Where expansive (clay) soils are encountered, the soils should be compacted to a moisture content of at least 3 to 5 percent above optimum moisture content. The project geotechnical engineer should examine the subgrade soil during grading and perform potholes as necessary to assess subgrade conditions for support of planned improvements. If loose or otherwise unsuitable soil is encountered, additional removals may be required. The actual extent of unsuitable soil removals should be determined in the field by the soil engineer and/or engineering geologist. Soft or overly wet soil in utility trenches will require removal, drying and/or mixing with drier soils, and recompaction.

- 6.3.4 Prior to placing fill (if any), the upper 12 inches of soil should be scarified, moisture conditioned as necessary and recompacted. Soils derived from onsite excavations are suitable for reuse as fill if free from vegetation, debris and other deleterious material. Fill lifts should be no thicker than will allow for adequate bonding and compaction. Fill, backfill, and scarified ground surfaces, should be compacted to a dry density of at least 90 percent of maximum dry density slightly above optimum moisture content, as determined in accordance with ASTM Test Procedure D 1557. Fill or backfill with in-place density test results indicating moisture contents less than optimum will require additional moisture conditioning prior to placing fill. Where expansive clay soils are encountered, the moisture content of the soils should be at least 3 to 5 percent above optimum moisture content.
- 6.3.5 Imported fill (if necessary) should consist of granular soil with a “very low” to “low” expansion potential (EI of 50 or less) that is free of deleterious material or stones larger than 3 inches and should be compacted as recommended above. Geocon Incorporated should be notified of the import soil source and should perform laboratory testing prior to its arrival at the site to evaluate its suitability as fill material.

6.4 Seismic Design Criteria

- 6.4.1 We used the computer program *Seismic Hazard Curves and Uniform Hazard Response Spectra (Version 5.1.0)*, provided by the USGS. Table 6.4 summarizes site-specific design criteria obtained from the 2010 California Building Code (CBC; Based on the 2009 International Building Code [IBC]), Chapter 16 Structural Design, Section 1613 Earthquake Loads. The short spectral response uses a period of 0.2 second. The planned residential structure and improvements should be designed using a Site Class C.

**TABLE 6.4
2010 CBC SEISMIC DESIGN PARAMETERS**

| Parameter | Value | 2010 CBC Reference |
|--|---------|------------------------------|
| Site Class | C | Table 1613.5.2 |
| Spectral Response – Class B (short), S_S | 1.309 g | Figure 1613.5(3) |
| Spectral Response – Class B (1 sec), S_1 | 0.480 g | Figure 1613.5(4) |
| Site Coefficient, F_A | 1.00 | Table 1613.5.3(1) |
| Site Coefficient, F_V | 1.32 | Table 1613.5.3(2) |
| Maximum Considered Earthquake Spectral Response Acceleration (short), S_{MS} | 1.309 g | Section 1613.5.3 (Eqn 16-36) |
| Maximum Considered Earthquake Spectral Response Acceleration – (1 sec), S_{M1} | 0.633 g | Section 1613.5.3 (Eqn 16-37) |
| 5% Damped Design Spectral Response Acceleration (short), S_{DS} | 0.873 g | Section 1613.5.4 (Eqn 16-38) |
| 5% Damped Design Spectral Response Acceleration (1 sec), S_{D1} | 0.422 g | Section 1613.5.4 (Eqn 16-39) |

6.4.2 Conformance to the criteria in Table 6.4 for seismic design does not constitute any kind of guarantee or assurance that significant structural damage or ground failure will not occur if a large earthquake occurs. The primary goal of seismic design is to protect life, not to avoid all damage, since such design may be economically prohibitive.

6.5 Foundation and Concrete Slabs-On-Grade Recommendations

6.5.1 The proposed restroom building can be supported on a conventional shallow foundation system bearing on dense Lindavista Formation. Foundations for the restroom building can consist of continuous strip footings and/or isolated spread footings, or a concrete mat slab.

6.5.2 Continuous footings should be at least 12 inches wide and extend at least 18 inches below lowest adjacent pad grade. Isolated spread footings should have a minimum width and depth of 24 and 18 inches, respectively. Steel reinforcement for continuous footings should consist of at least four No. 5 steel reinforcing bars placed horizontally in the footings; two near the top and two near the bottom. Steel reinforcement for the spread footings should be designed by the project structural engineer.

6.5.3 If a concrete mat slab is used for foundation support of the restroom building, the bottom of the mat slab should have a minimum embedment depth of 12 inches. A modulus of subgrade reaction of 125 to 175 pounds per cubic inch can be used to evaluate deflection of

the mat. The project structural engineer should design the thickness and reinforcement for the mat foundation.

- 6.5.4 Foundation may be designed for an allowable soil bearing pressure of 2,000 pounds per square foot (psf) (dead plus live load). This bearing pressure may be increased by one-third for transient loads due to wind or seismic forces. The estimated maximum total and differential settlement for the planned structures due to foundation loads is 1 inch and ½ inch, respectively.
- 6.5.5 Concrete slabs-on-grade for the restroom structure should be at least 5 inches thick and reinforced with No. 3 steel reinforcing bars, spaced at 18 inches on center, in both directions. Concrete slabs on grade should be underlain by 3 inches of clean sand to reduce the potential for differential curing, slab curl, and cracking. Slabs that may receive moisture-sensitive floor coverings or may be used to store moisture-sensitive materials should be underlain by a vapor retarder placed near the middle of the sand bedding. The vapor retarder used should be specified by the project architect or developer based on the type of floor covering that will be installed. The vapor retarder design should be consistent with the guidelines presented in Section 9.3 of the American Concrete Institute's (ACI) *Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials* (ACI 302.2R-06).
- 6.5.6 Exterior concrete hardscape should be at least 5 inches thick and reinforced with No. 3 steel reinforcing bars spaced 24 inches on center in both directions and placed at the slab midpoint. Because of the expansive nature of portions of the on-site soils, areas to receive concrete hardscape should be scarified, moisture conditioned and recompacted just prior to placing concrete. Where expansive clays are present the soils should be moisture conditioned to at least 3 to 5 percent above optimum moisture content. Where low expansive soils are present the soils should be moisture conditioned to at least optimum moisture content or up to 3 percent above optimum moisture content. The exposed foundation and slab subgrade soil moisture content should be maintained until concrete is placed. This may require periodic wetting of the surface. Moisture conditioning of the slab subgrade is very important to reduce the amount of potential expansive soil movement.
- 6.5.7 To reduce the potential for heaving of exterior slabs-on-grade, a thickened edge should be included in the design of flatwork placed on expansive soils. The thickened edge should be at least 8 inches and taper back to the 5-inch thickness in a horizontal distance of approximately 2 feet. Even if the foundation recommendations for highly expansive soils are incorporated into foundation and concrete flatwork design, a potential exists for differential soil movement beneath structural improvements placed on expansive soils.

- 6.5.8 Concrete flatwork should be provided with crack-control joints to reduce and/or control shrinkage cracking. Crack-control spacing should be determined by the project structural engineer based upon the slab thickness and intended usage. Criteria of the American Concrete Institute (ACI) should be taken into consideration when establishing crack-control spacing.
- 6.5.9 Where exterior flatwork abuts curbs and structures, the exterior slab should be dowelled into the curb or structure's foundation stemwall. This recommendation is intended to reduce the potential for differential elevations that could result from differential settlement or heave of the flatwork. Dowelling details should be designed by the project structural engineer.
- 6.5.10 The recommendations of this report are intended to reduce the potential for cracking of slabs due to expansive soil, differential settlement of existing soil or soil with varying thicknesses. However, even with the incorporation of the recommendations presented herein, foundations, stucco walls, and slabs-on-grade placed on such conditions may still exhibit some cracking due to soil movement and/or shrinkage. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics. Their occurrence may be reduced and/or controlled by limiting the slump of the concrete, proper concrete placement and curing, and by the placement of crack control joints at periodic intervals, in particular, where re-entrant slab corners occur.
- 6.5.11 Geocon Incorporated should be consulted to provide additional design parameters as required by the structural engineer.

6.6 Lateral Loading

- 6.6.1 To resist lateral loads, a passive pressure exerted by an equivalent fluid weight of 350 pounds per cubic foot should be used for design of footings or shear keys poured neat against properly compacted granular fill soils or firm native materials. The upper 12 inches of material in areas not protected by floor slabs or pavement should not be included in design for passive resistance.
- 6.6.2 If friction is to be used to resist lateral loads, an allowable coefficient of friction between soil and concrete of 0.35 should be used for design.

6.7 Preliminary Pavement Recommendations

6.7.1 The pavement recommendations presented herein are preliminary and are based on an R-Value of 8 (value determined from laboratory testing). Final pavement sections should be calculated once subgrade elevations have been attained and R-Value testing on actual subgrade samples is performed. Asphalt concrete pavement thicknesses were calculated using procedures outlined in the *California Highway Design Manual* (Caltrans). We expect the majority of traffic will consist of automobile traffic and periodic trash truck and fire truck traffic. Summarized on Table 6.7 are recommended preliminary pavement sections for various Traffic Indices. The project traffic engineer or civil engineer should determine the appropriate Traffic Index for the traffic loading expected on the project.

**TABLE 6.7
PRELIMINARY ASPHALT CONCRETE PAVEMENT SECTIONS**

| Traffic Index | Asphalt Concrete (inches) | Class 2 Base (inches) |
|---------------|---------------------------|-----------------------|
| 4.5 | 3 | 7 |
| 5 | 3 | 9 |
| 6 | 3.5 | 12 |
| 7 | 4 | 15 |

6.7.2 Prior to placing base materials, the subgrade soil should be scarified, moisture conditioned as necessary, and recompacted to a dry density of at least 95 percent of the laboratory maximum dry density near to slightly above optimum moisture content as determined by ASTM D 1557. Where expansive clay soils are exposed at subgrade elevation, we recommend the soils be moisture conditioned to 3 to 5 percent above optimum moisture content and compacted to 90 percent relative compaction. The depth of compaction should be at least 12 inches. Similarly, the base materials should be compacted to a dry density of at least 95 percent of the laboratory maximum dry density near to slightly above optimum moisture content. Asphalt concrete should be compacted to a density of at least 95 percent of the laboratory Hveem density in accordance with ASTM D 2726.

6.7.3 Base materials should conform to Section 26-1.028 of the *Standard Specifications for The State of California Department of Transportation (Caltrans)* with ¾-inch maximum size aggregate. The asphalt concrete should conform to Section 203-6 of the *Standard Specifications for Public Works Construction (Greenbook)*.

6.7.4 A rigid Portland cement concrete (PCC) pavement section should be placed in trash bin areas (if any). The concrete should have a minimum thickness of at least 6 inches and be

reinforced with No. 3 steel bars spaced 24 inches center to center and positioned in the middle of the slab. The reinforced concrete pad at trash bin locations should be large enough such that the truck wheels will be positioned on reinforced concrete during loading.

6.7.5 The performance of pavement is highly dependent on providing positive surface drainage away from the edge of the pavement. Ponding of water on or adjacent to the pavement will likely result in pavement distress and subgrade failure. Drainage from landscaped areas should be directed to controlled drainage structures. Because of the expansive nature of the on-site soils landscape areas adjacent to the edge of concrete hardscape and asphalt pavements are not recommended due to the potential for surface or irrigation water to infiltrate the underlying subgrade soils and potentially cause distress. Where such a condition cannot be avoided, we recommend measures be taken to reduce the potential for subsurface water migration into the adjacent subgrade or aggregate base. If planter islands are planned, we recommend a cut-off be provided at the edge of the landscaped area to prevent water migration into the subgrade soils. The cut-off can consist of a impermeable liner or a deepened perimeter curb. The cut-off should extend to at least 6 inches below the aggregate base material and at least 6 inches into the subgrade soil. Additionally, drains should be installed to intercept excess irrigation water and/or surface runoff.

6.8 Infiltration Testing

6.8.1 Infiltration testing was performed using a Guelph Permeameter at the locations shown on Figure 2. The results of the Guelph Permeameter tests are shown on Table 6.8. Field saturated permeability tests yielded values of 0.004 in/hr and 0.01 in/hr. The dense and clayey nature of the on-site soils generally inhibits infiltration.

**TABLE 6.8
FIELD SATURATED PERMEABILITY TESTS**

| Location | Field Saturated Permeability (in/hr) |
|----------|--------------------------------------|
| P-1 | 0.004 |
| P-2 | 0.01 |

6.9 Water Quality Treatment Areas

6.9.1 The dense and clayey nature of the on-site soils inhibits infiltration. Additionally, distress to adjacent improvements will likely occur as a result of expansive soil movement caused by water infiltration. Water quality treatment might be possible using bioswales, which typically consist of a surface layer of vegetation underlain by clean sand. A typical

bioswale detail is presented as Figure 3. Due to site soil conditions, any water quality treatment area should be lined with an impermeable barrier, such as a thick visqueen, to prevent water from causing distress as a result of expansive soils. A subdrain should be provided beneath the sand layer to collect water. The subdrain should be connected to the storm drain system. Prior to discharging into the storm drainpipe, a seepage cutoff wall should be constructed at the interface between the subdrain and storm drainpipe. The concrete cut-off wall should extend at least 6-inches beyond the perimeter of the gravel-packed subdrain system. A typical cut-off wall detail is presented as Figure 4.

6.10 Site Drainage and Moisture Protection

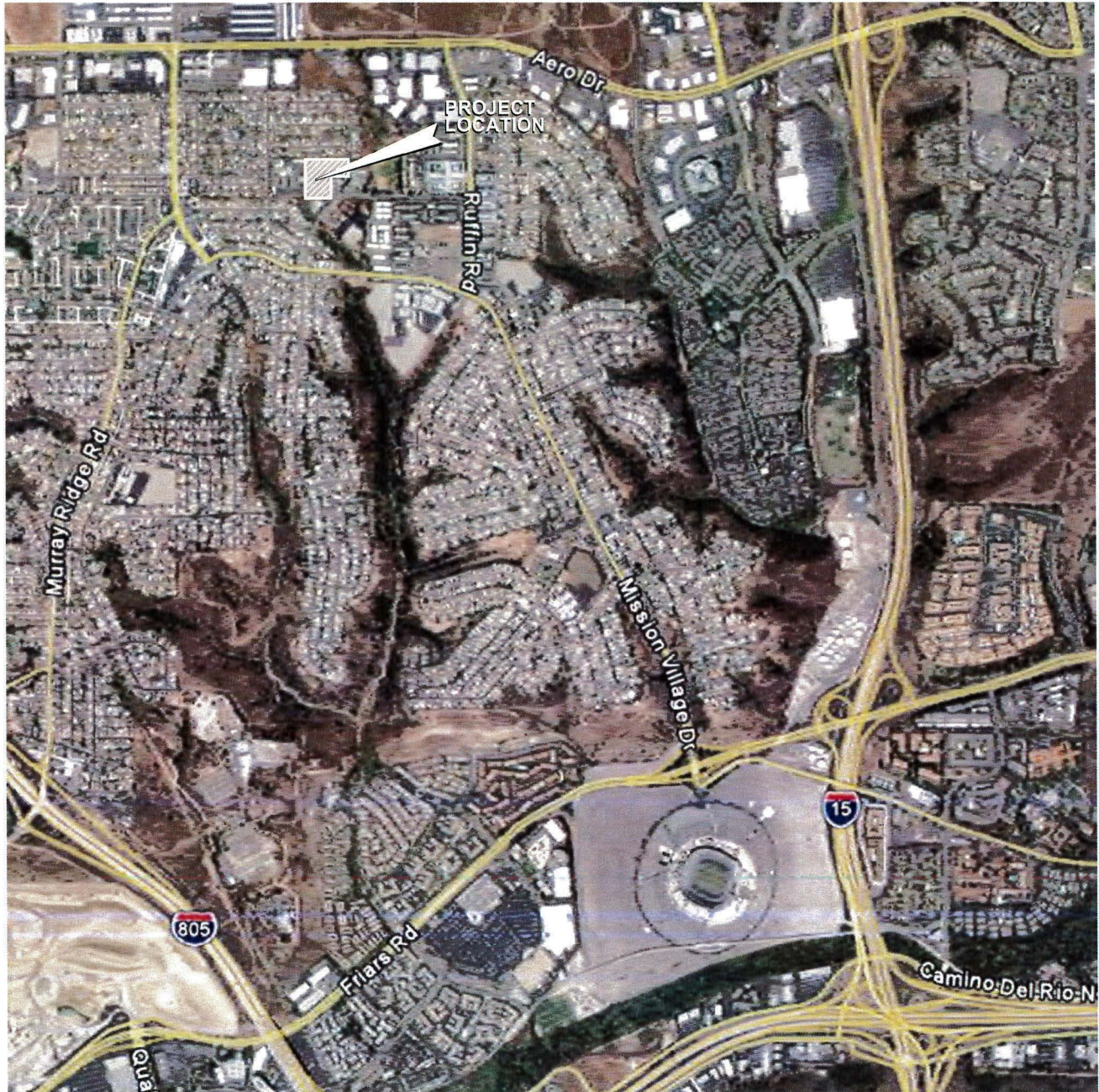
- 6.10.1 Adequate site drainage is critical to reduce the potential for differential soil movement, erosion, and subsurface seepage. Under no circumstances should water be allowed to pond adjacent to footings. The site should be graded and maintained such that surface drainage is directed away from structures and the top of slopes into swales or other controlled drainage devices. Roof and pavement drainage should be directed into conduits that carry runoff away from the proposed structure.
- 6.10.2 Underground utilities should be leak free. Utility and irrigation lines should be checked periodically for leaks, and detected leaks should be repaired promptly. Detrimental soil movement could occur if water is allowed to infiltrate the soil for prolonged periods of time.
- 6.10.3 Landscaping planters adjacent to concrete hardscape or paved areas are not recommended due to the potential for water to infiltrate the subgrade and base course. Drains to collect excess irrigation water and transmit it to drainage structures should be used. In addition, where landscaping is planned, we recommend construction of a cutoff wall along the edge of the landscaping that extends at least 6 inches below the bottom of the pavement base material.

6.11 Foundation Plan Review

- 6.11.1 Geocon Incorporated should review the foundation plans for the project prior to final design submittal to determine if additional analysis and/or recommendations are required.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

1. The firm that performed the geotechnical investigation for the project should be retained to provide testing and observation services during construction to provide continuity of geotechnical interpretation and to check that the recommendations presented for geotechnical aspects of site development are incorporated during site grading, construction of improvements, and excavation of foundations. If another geotechnical firm is selected to perform the testing and observation services during construction operations, that firm should prepare a letter indicating their intent to assume the responsibilities of project geotechnical engineer of record. A copy of the letter should be provided to the regulatory agency for their records. In addition, that firm should provide revised recommendations concerning the geotechnical aspects of the proposed development, or a written acknowledgement of their concurrence with the recommendations presented in our report. They should also perform additional analyses deemed necessary to assume the role of Geotechnical Engineer of Record.
2. The recommendations of this report pertain only to the site investigated and are based upon the assumption that the soil conditions do not deviate from those disclosed in the investigation. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that anticipated herein, Geocon Incorporated should be notified so that supplemental recommendations can be given. The evaluation or identification of the potential presence of hazardous or corrosive materials was not part of the scope of services provided by Geocon Incorporated.
3. This report is issued with the understanding that it is the responsibility of the owner or his representative to ensure that the information and recommendations contained herein are brought to the attention of the architect and engineer for the project and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.
4. The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.



NO SCALE

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VICINITY MAP

WEDGEFORTH JOINT-USE PARK
SAN DIEGO, CALIFORNIA

GC / RS

DSK/GTYPD

DATE 03 - 29 - 2011

PROJECT NO. G1335 - 42 - 01

FIG. 1

WEGEFORTH JOINT-USE PARK
SAN DIEGO, CALIFORNIA



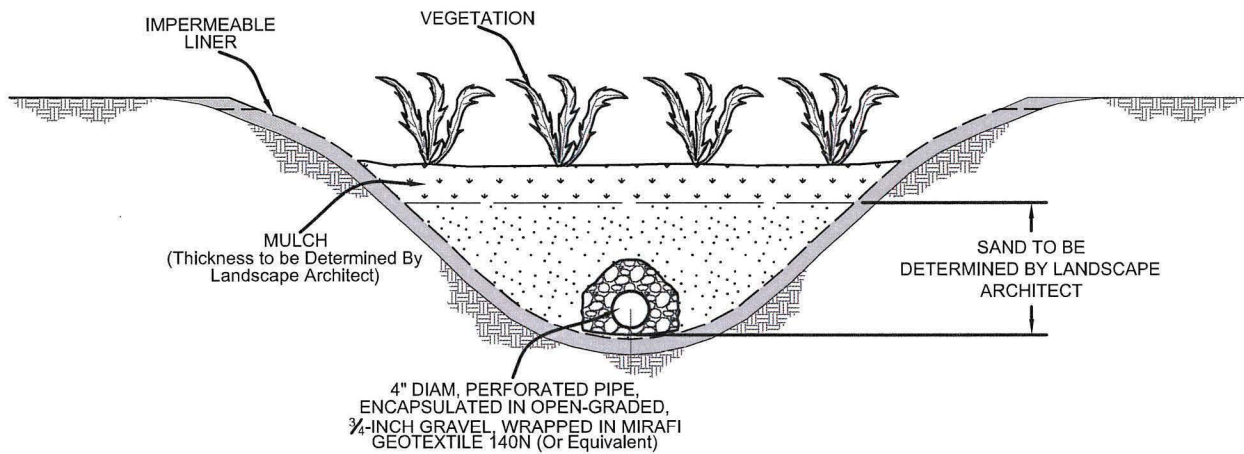
- LEGEND**
- T-8APPROX. LOCATION OF TRENCH
 - P-2APPROX. LOCATION OF PERMEATER TEST

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FIGURE 2
DATE 03 - 29 - 2011

TRENCH LOCATION MAP

Y:\PROJECTS\G1335-42-01\Wegeforth Park\SHEETS\G1335-42-01_SITPLAN.dwg
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NOTES:

- 1.....BIO-SWALES SHOULD BE DESIGNED WITH A POSITIVE GRADIENT TO PREVENT PONDING.
- 2.....INFILTRATION DETENTION BASIN SHOULD BE GRADED WITH A LOW POINT AT THE BOTTOM OF THE SYSTEM.
- 3.....DETENTION BASINS SHOULD BE REGULARLY INSPECTED AND MAINTAINED TO PREVENT MOSQUITO INFESTATION.

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TYPICAL BIO-SWALE DETAIL

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WEDGEFORTH JOINT-USE PARK
SAN DIEGO, CALIFORNIA

RM / AML

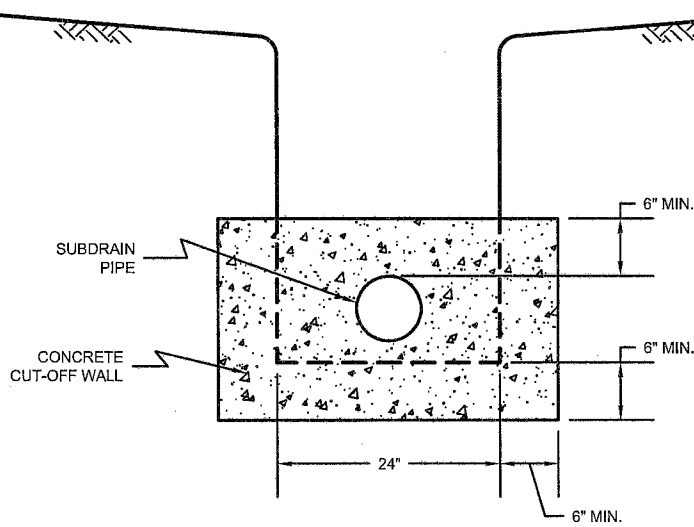
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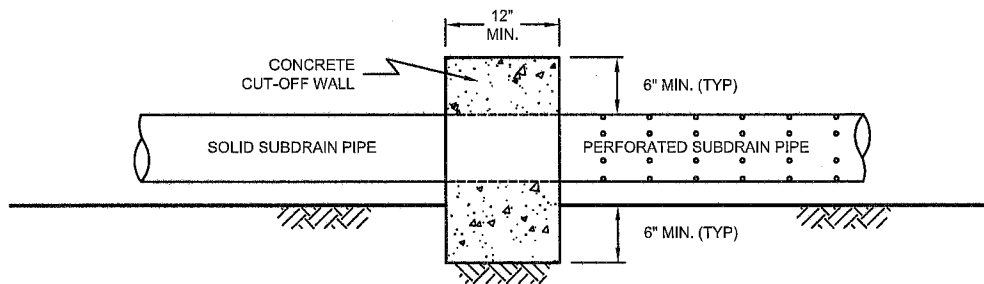
FIG. 3

FRONT VIEW



NO SCALE

SIDE VIEW



NO SCALE

TYPICAL SUBDRAIN CUT-OFF WALL DETAIL

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DATE 03 - 29 - 2011

PROJECT NO. G1335 - 42 - 01

FIG.4

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | TRENCH T 1 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---------------|-----------|-------------|-------------------------|---|--|-------------------------|-------------------------|
| | | | | SOIL CLASS (USCS) | ELEV. (MSL.) <u>400'</u> DATE COMPLETED <u>03-02-2011</u> EQUIPMENT <u>BACKHOE</u> BY: <u>G. CANNON</u> | | | |
| MATERIAL DESCRIPTION | | | | | | | | |
| 0 | TI-1 | | | SM | FILL | | | |
| | | | | SC | Loose, moist, dark gray, Silty, fine to coarse SAND | | | |
| 2 | TI-2 | | | SC | LINDA VISTA FORMATION | | | |
| | | | | SC | Very dense, moist, red brown, Clayey, fine to medium SAND Very dense, moist, yellow red brown, Clayey, fine to medium SAND (less clay) | | | |
| 4 | | | | | | | | |
| EXCAVATION TERMINATED AT 5 FEET No groundwater encountered | | | | | | | | |

Figure A-1,
Log of Trench T 1, Page 1 of 1

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| | | | | | | |
|----------------|--|-----------------------------|--|-------------------------------|--|--------------------------------|
| SAMPLE SYMBOLS | | ... SAMPLING UNSUCCESSFUL | | ... STANDARD PENETRATION TEST | | ... DRIVE SAMPLE (UNDISTURBED) |
| | | ... DISTURBED OR BAG SAMPLE | | ... CHUNK SAMPLE | | ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.









| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | TRENCH T 2 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|-----------------------------|---------------|---|-------------|-------------------------|---|----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>400'</u> | DATE COMPLETED <u>03-02-2011</u> | | | |
| | | | | | EQUIPMENT <u>BACKHOE</u> | | BY: <u>G. CANNON</u> | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 0 | | | | SM | FILL | | | | |
| | T2-1 |  | | CL | Loose, mist, dark gray, Silty, fine to coarse SAND | | | | |
| 2 | | | | | LINDAVISTA FORMATION | | | | |
| | T2-2 |  | | SC | Stiff, wet, dark olive, Sandy CLAY -White stringers (calcium carbonate?) | | | | |
| 4 | | | | | Very dense, red brown, Clayey, fine to medium SAND | | | | |
| TRENCH TERMINATED AT 5 FEET | | | | | | | | | |

Figure A-2,
Log of Trench T 2, Page 1 of 1

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| | | | | | | |
|----------------|---|-----------------------------|---|-------------------------------|---|--------------------------------|
| SAMPLE SYMBOLS |  | ... SAMPLING UNSUCCESSFUL |  | ... STANDARD PENETRATION TEST |  | ... DRIVE SAMPLE (UNDISTURBED) |
| |  | ... DISTURBED OR BAG SAMPLE |  | ... CHUNK SAMPLE |  | ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | TRENCH T 3 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------------|---------------|-----------|-------------|-------------------------|--|----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>400'</u> | DATE COMPLETED <u>03-02-2011</u> | | | |
| | | | | | EQUIPMENT <u>BACKHOE</u> BY: <u>G. CANNON</u> | | | | |
| | | | | | MATERIAL DESCRIPTION | | | | |
| 0 | | | | SM | FILL Loose, wet, dark gray, Silty, fine to coarse SAND | | | | |
| | T3-1 | | | | LINDAVISTA FORMATION Very dense, moist, red brown, Clayey, fine to coarse SAND | | | | |
| 2 | | | | | TRENCH TERMINATED AT 3 FEET | | | | |
| | T3-2 | | | CL/ML | Hard, moist, olive, Silty CLAY/Clayey SILT | | | | |

Figure A-3,
Log of Trench T 3, Page 1 of 1

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| | | | |
|----------------|-----------------------------|-------------------------------|--------------------------------|
| SAMPLE SYMBOLS | ... SAMPLING UNSUCCESSFUL | ... STANDARD PENETRATION TEST | ... DRIVE SAMPLE (UNDISTURBED) |
| | ... DISTURBED OR BAG SAMPLE | ... CHUNK SAMPLE | ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.









| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | TRENCH T 4 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------------|---------------|---|-------------|--------------------------|--|--|-------------------------|-------------------------|
| | | | | ELEV. (MSL.) <u>400'</u> | DATE COMPLETED <u>03-02-2011</u> | | | |
| | | | | | EQUIPMENT <u>BACKHOE</u> BY: <u>G. CANNON</u> | | | |
| | | | | | MATERIAL DESCRIPTION | | | |
| 0 | |  | | SM | FILL Loose, moist, gray, Silty, fine to medium SAND | | | |
| | |  | | SC | LINDAVISTA FORMATION Very dense, moist, red brown, Clayey, fine to medium SAND | | | |
| 2 | | | | | TRENCH TERMINATED AT 2 FEET | | | |

Figure A-4,
Log of Trench T 4, Page 1 of 1

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| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | TRENCH T 5 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|-----------------------------|------------|-----------|-------------|-------------------|--|------------------------------------|----------------------|----------------------|
| | | | | SOIL CLASS (USCS) | ELEV. (MSL.) <u>400'</u> DATE COMPLETED <u>03-02-2011</u> EQUIPMENT <u>BACKHOE</u> BY: <u>G. CANNON</u> | | | |
| MATERIAL DESCRIPTION | | | | | | | | |
| 0 | | | | SM | FILL | | | |
| | | | | SC | Loose, moist, gray, Silty, fine to medium SAND | | | |
| 2 | | | | | LINDAVISTA FORMATION Very dense, moist, red brown, Silty, fine to medium SAND | | | |
| TRENCH TERMINATED AT 2 FEET | | | | | | | | |

**Figure A-5,
Log of Trench T 5, Page 1 of 1**

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| | | | |
|----------------|-----------------------------|-------------------------------|--------------------------------|
| SAMPLE SYMBOLS | ... SAMPLING UNSUCCESSFUL | ... STANDARD PENETRATION TEST | ... DRIVE SAMPLE (UNDISTURBED) |
| | ... DISTURBED OR BAG SAMPLE | ... CHUNK SAMPLE | ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.









| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | TRENCH T 6 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|---------------|---|-------------|---|---|--|-------------------------|-------------------------|
| | | | | ELEV. (MSL.) <u>400'</u> | DATE COMPLETED <u>03-02-2011</u> | | | |
| | | | | EQUIPMENT <u>BACKHOE</u> BY: <u>G. CANNON</u> | | | | |
| MATERIAL DESCRIPTION | | | | | | | | |
| 0 | |  | | SM | FILL | | | |
| | |  | | CL | Loose, moist, gray, Silty, fine to medium SAND Soft, wet, dark olive, CLAY, easily probed to 4.5 feet below ground surface | | | |
| 2 | | | | | TRENCH TERMINATED AT 2.5 FEET | | | |

Figure A-6,
Log of Trench T 6, Page 1 of 1

G1335-42-01.GPJ

| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.




| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | TRENCH T 7 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------------|---------------|---|-------------|--|--|--|-------------------------|-------------------------|
| | | | | ELEV. (MSL.) <u>400'</u> | DATE COMPLETED <u>03-02-2011</u> | | | |
| | | | | EQUIPMENT <u>BACKHOE</u> BY: <u>G. CANNON</u> | | | | |
| | | | | MATERIAL DESCRIPTION | | | | |
| 0 | |  | | SM | FILL | | | |
| | | | SC | Loose, moist, gray, Silty, fine to medium SAND | | | | |
| | | | | | LINDAVISTA FORMATION | | | |
| 2 | | | | | Dense, moist, red brown, Clayey, fine to medium SAND | | | |
| | | | | TRENCH TERMINATED AT 2 FEET | | | | |

Figure A-7,
Log of Trench T 7, Page 1 of 1

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| | | | |
|----------------|---|--|--|
| SAMPLE SYMBOLS | <input type="checkbox"/> ... SAMPLING UNSUCCESSFUL | <input type="checkbox"/> ... STANDARD PENETRATION TEST | <input checked="" type="checkbox"/> ... DRIVE SAMPLE (UNDISTURBED) |
| | <input checked="" type="checkbox"/> ... DISTURBED OR BAG SAMPLE | <input checked="" type="checkbox"/> ... CHUNK SAMPLE | <input checked="" type="checkbox"/> ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | TRENCH T 8 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|---------------|---|-------------|---|----------------------------------|--|-------------------------|-------------------------|
| | | | | ELEV. (MSL.) <u>400'</u> | DATE COMPLETED <u>03-02-2011</u> | | | |
| | | | | EQUIPMENT <u>BACKHOE</u> BY: <u>G. CANNON</u> | | | | |
| MATERIAL DESCRIPTION | | | | | | | | |
| 0 | |  | | FILL Loose, moist, gray, Silty, fine to medium SAND | | | | |
| | |  | | LINDAVISTA FORMATION Dense, moist, red brown, Clayey, fine to medium SAND | | | | |
| 2 | | | | TRENCH TERMINATED AT 2 FEET | | | | |

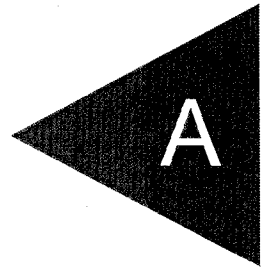
**Figure A-8,
Log of Trench T 8, Page 1 of 1**

G1335-42-01.GPJ

| | | | |
|----------------|---|--|---|
| SAMPLE SYMBOLS | <input type="checkbox"/> ... SAMPLING UNSUCCESSFUL | <input type="checkbox"/> ... STANDARD PENETRATION TEST | <input type="checkbox"/> ... DRIVE SAMPLE (UNDISTURBED) |
| | <input checked="" type="checkbox"/> ... DISTURBED OR BAG SAMPLE | <input type="checkbox"/> ... CHUNK SAMPLE | <input type="checkbox"/> ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

APPENDIX



APPENDIX A

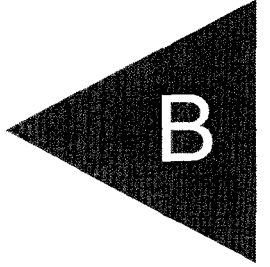
FIELD INVESTIGATION

Fieldwork for our investigation included a site visit and subsurface exploration. The locations of the exploratory trenches are shown on the Trench Location Map, Figure 2. The trenches were located in the field based on visual reference points and GPS device. Therefore, actual trench locations may deviate slightly.

We performed the field investigation on March 2, 2011, which consisted of excavating 8 exploratory trenches using a John Deere 410 rubber-tire backhoe. The exploratory trenches were excavated to a maximum depth of approximately 5 feet below existing grade. Trench logs are presented on Figures A-1 through A-8.

The soil encountered in the borings were visually examined, classified, and logged in general accordance with American Society for Testing and Materials (ASTM) practice for Description and Identification of Soils (Visual-Manual Procedure D 2488). The logs depict the soil and geologic conditions observed and the depth at which samples were obtained.

APPENDIX



APPENDIX B
LABORATORY TESTING

Laboratory tests were performed in accordance with generally accepted test methods of the American Society for Testing and Materials (ASTM) or other suggested procedures. Selected soil samples were tested for their maximum dry density and optimum moisture content, shear strength, water-soluble sulfate, chloride ion, and resistance value (R-value) characteristics. The results of our laboratory tests are presented on Tables B-I through B-VI.

TABLE B-I
SUMMARY OF LABORATORY MAXIMUM DRY DENSITY
AND OPTIMUM MOISTURE CONTENT TEST RESULTS
ASTM D 1557

| Sample No. | Description | Maximum Dry Density (pcf) | Optimum Moisture Content (% dry wt.) |
|------------|--|---------------------------|--------------------------------------|
| T1-2 | Light olive brown, Clayey, fine to medium SAND | 127.6 | 11.0 |
| T3-1 | Yellowish brown, Silty, fine to coarse SAND; little gravel | 126.8 | 10.4 |

TABLE B-II
SUMMARY OF LABORATORY EXPANSION INDEX TEST RESULTS
ASTM D 4829

| Sample No. | Moisture Content (%) | | Dry Density (pcf) | Expansion Index | Expansion Classification |
|------------|----------------------|------------|-------------------|-----------------|--------------------------|
| | Before Test | After Test | | | |
| T1-1 | 12.7 | 27.7 | 97.8 | 87 | Medium |
| T3-1 | 8.6 | 17.1 | 113.2 | 4 | Very Low |
| T3-2 | 11.9 | 27.2 | 99.6 | 72 | Medium |

TABLE B-III
SUMMARY OF LABORATORY DIRECT SHEAR TEST RESULTS
ASTM D 3080

| Sample No. | Dry Density (pcf) | Moisture Content (%) | | Unit Cohesion (psf) | Angle of Shear Resistance (degrees) |
|------------|-------------------|----------------------|-------|---------------------|-------------------------------------|
| | | Initial | Final | | |
| T3-1* | 115.0 | 9.9 | 15.2 | 410 | 36 |

*Remolded to a dry density of approximately 90 percent of the laboratory maximum dry density.

**TABLE B-IV
SUMMARY OF LABORATORY WATER-SOLUBLE SULFATE CALIFORNIA TEST NO. 417**

| Sample No. | Water-Soluble Sulfate (%) | Classification |
|------------|---------------------------|----------------|
| T3-1 | 0.041 | Negligible |

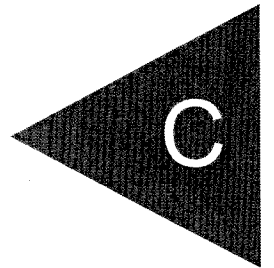
**TABLE B-V
SUMMARY OF LABORATORY CHLORIDE ION CONTENT TEST RESULTS
AASHTO T 291**

| Sample No. | Chloride Ion Content (ppm) | Chloride Ion Content (%) |
|------------|----------------------------|--------------------------|
| T3-1 | 949 | 0.095 |

**TABLE B-VI
SUMMARY OF LABORATORY RESISTANCE VALUE (R-VALUE) TEST RESULTS
ASTM D 2844**

| Sample No. | R-Value |
|------------|---------|
| T2-2 | 8 |

APPENDIX



APPENDIX C

RECOMMENDED GRADING SPECIFICATIONS

FOR

WEGEFORTH JOINT-USE PARK
SAN DIEGO, CALIFORNIA

PROJECT NO. G1335-42-01

RECOMMENDED GRADING SPECIFICATIONS

1. GENERAL

- 1.1 These Recommended Grading Specifications shall be used in conjunction with the Geotechnical Report for the project prepared by Geocon Incorporated. The recommendations contained in the text of the Geotechnical Report are a part of the earthwork and grading specifications and shall supersede the provisions contained hereinafter in the case of conflict.
- 1.2 Prior to the commencement of grading, a geotechnical consultant (Consultant) shall be employed for the purpose of observing earthwork procedures and testing the fills for substantial conformance with the recommendations of the Geotechnical Report and these specifications. The Consultant should provide adequate testing and observation services so that they may assess whether, in their opinion, the work was performed in substantial conformance with these specifications. It shall be the responsibility of the Contractor to assist the Consultant and keep them apprised of work schedules and changes so that personnel may be scheduled accordingly.
- 1.3 It shall be the sole responsibility of the Contractor to provide adequate equipment and methods to accomplish the work in accordance with applicable grading codes or agency ordinances, these specifications and the approved grading plans. If, in the opinion of the Consultant, unsatisfactory conditions such as questionable soil materials, poor moisture condition, inadequate compaction, adverse weather, result in a quality of work not in conformance with these specifications, the Consultant will be empowered to reject the work and recommend to the Owner that grading be stopped until the unacceptable conditions are corrected.

2. DEFINITIONS

- 2.1 **Owner** shall refer to the owner of the property or the entity on whose behalf the grading work is being performed and who has contracted with the Contractor to have grading performed.
- 2.2 **Contractor** shall refer to the Contractor performing the site grading work.
- 2.3 **Civil Engineer** or **Engineer of Work** shall refer to the California licensed Civil Engineer or consulting firm responsible for preparation of the grading plans, surveying and verifying as-graded topography.

- 2.4 **Consultant** shall refer to the soil engineering and engineering geology consulting firm retained to provide geotechnical services for the project.
- 2.5 **Soil Engineer** shall refer to a California licensed Civil Engineer retained by the Owner, who is experienced in the practice of geotechnical engineering. The Soil Engineer shall be responsible for having qualified representatives on-site to observe and test the Contractor's work for conformance with these specifications.
- 2.6 **Engineering Geologist** shall refer to a California licensed Engineering Geologist retained by the Owner to provide geologic observations and recommendations during the site grading.
- 2.7 **Geotechnical Report** shall refer to a soil report (including all addenda) which may include a geologic reconnaissance or geologic investigation that was prepared specifically for the development of the project for which these Recommended Grading Specifications are intended to apply.

3. MATERIALS

- 3.1 Materials for compacted fill shall consist of any soil excavated from the cut areas or imported to the site that, in the opinion of the Consultant, is suitable for use in construction of fills. In general, fill materials can be classified as *soil* fills, *soil-rock* fills or *rock* fills, as defined below.
- 3.1.1 **Soil fills** are defined as fills containing no rocks or hard lumps greater than 12 inches in maximum dimension and containing at least 40 percent by weight of material smaller than ¾ inch in size.
- 3.1.2 **Soil-rock fills** are defined as fills containing no rocks or hard lumps larger than 4 feet in maximum dimension and containing a sufficient matrix of soil fill to allow for proper compaction of soil fill around the rock fragments or hard lumps as specified in Paragraph 6.2. **Oversize rock** is defined as material greater than 12 inches.
- 3.1.3 **Rock fills** are defined as fills containing no rocks or hard lumps larger than 3 feet in maximum dimension and containing little or no fines. Fines are defined as material smaller than ¾ inch in maximum dimension. The quantity of fines shall be less than approximately 20 percent of the rock fill quantity.

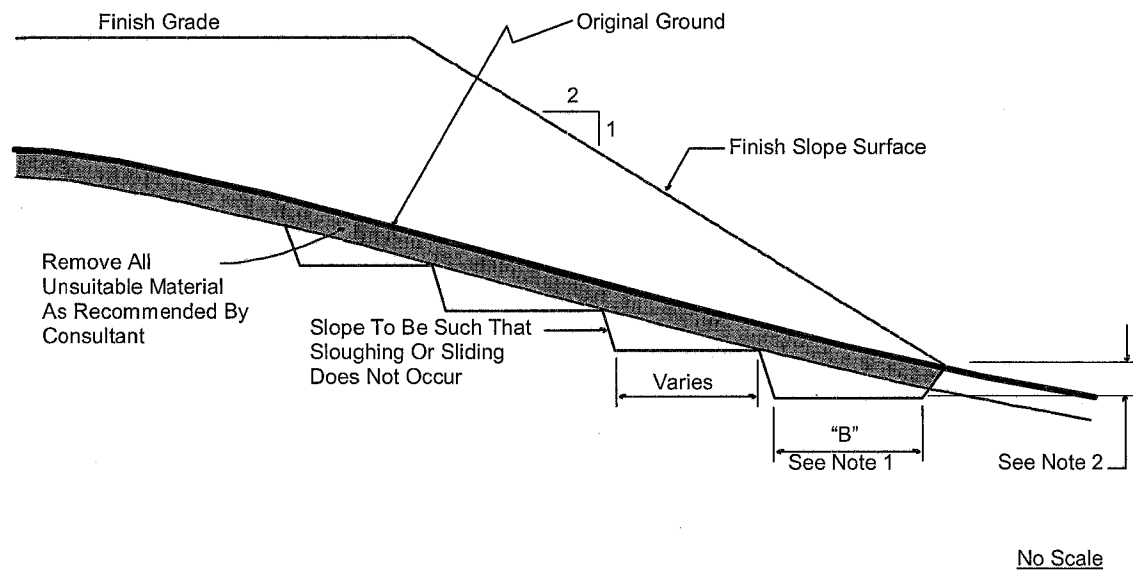
- 3.2 Material of a perishable, spongy, or otherwise unsuitable nature as determined by the Consultant shall not be used in fills.
- 3.3 Materials used for fill, either imported or on-site, shall not contain hazardous materials as defined by the California Code of Regulations, Title 22, Division 4, Chapter 30, Articles 9 and 10; 40CFR; and any other applicable local, state or federal laws. The Consultant shall not be responsible for the identification or analysis of the potential presence of hazardous materials. However, if observations, odors or soil discoloration cause Consultant to suspect the presence of hazardous materials, the Consultant may request from the Owner the termination of grading operations within the affected area. Prior to resuming grading operations, the Owner shall provide a written report to the Consultant indicating that the suspected materials are not hazardous as defined by applicable laws and regulations.
- 3.4 The outer 15 feet of *soil-rock* fill slopes, measured horizontally, should be composed of properly compacted *soil* fill materials approved by the Consultant. *Rock* fill may extend to the slope face, provided that the slope is not steeper than 2:1 (horizontal:vertical) and a soil layer no thicker than 12 inches is track-walked onto the face for landscaping purposes. This procedure may be utilized provided it is acceptable to the governing agency, Owner and Consultant.
- 3.5 Samples of soil materials to be used for fill should be tested in the laboratory by the Consultant to determine the maximum density, optimum moisture content, and, where appropriate, shear strength, expansion, and gradation characteristics of the soil.
- 3.6 During grading, soil or groundwater conditions other than those identified in the Geotechnical Report may be encountered by the Contractor. The Consultant shall be notified immediately to evaluate the significance of the unanticipated condition

4. CLEARING AND PREPARING AREAS TO BE FILLED

- 4.1 Areas to be excavated and filled shall be cleared and grubbed. Clearing shall consist of complete removal above the ground surface of trees, stumps, brush, vegetation, man-made structures, and similar debris. Grubbing shall consist of removal of stumps, roots, buried logs and other unsuitable material and shall be performed in areas to be graded. Roots and other projections exceeding 1½ inches in diameter shall be removed to a depth of 3 feet below the surface of the ground. Borrow areas shall be grubbed to the extent necessary to provide suitable fill materials.

- 4.2 Any asphalt pavement material removed during clearing operations should be properly disposed at an approved off-site facility. Concrete fragments that are free of reinforcing steel may be placed in fills, provided they are placed in accordance with Section 6.2 or 6.3 of this document.
- 4.3 After clearing and grubbing of organic matter and other unsuitable material, loose or porous soils shall be removed to the depth recommended in the Geotechnical Report. The depth of removal and compaction should be observed and approved by a representative of the Consultant. The exposed surface shall then be plowed or scarified to a minimum depth of 6 inches and until the surface is free from uneven features that would tend to prevent uniform compaction by the equipment to be used.
- 4.4 Where the slope ratio of the original ground is steeper than 5:1 (horizontal:vertical), or where recommended by the Consultant, the original ground should be benched in accordance with the following illustration.

TYPICAL BENCHING DETAIL



- DETAIL NOTES: (1) Key width "B" should be a minimum of 10 feet, or sufficiently wide to permit complete coverage with the compaction equipment used. The base of the key should be graded horizontal, or inclined slightly into the natural slope.
- (2) The outside of the key should be below the topsoil or unsuitable surficial material and at least 2 feet into dense formational material. Where hard rock is exposed in the bottom of the key, the depth and configuration of the key may be modified as approved by the Consultant.

- 4.5 After areas to receive fill have been cleared and scarified, the surface should be moisture conditioned to achieve the proper moisture content, and compacted as recommended in Section 6 of these specifications.

5. COMPACTION EQUIPMENT

- 5.1 Compaction of *soil* or *soil-rock* fill shall be accomplished by sheepsfoot or segmented-steel wheeled rollers, vibratory rollers, multiple-wheel pneumatic-tired rollers, or other types of acceptable compaction equipment. Equipment shall be of such a design that it will be capable of compacting the *soil* or *soil-rock* fill to the specified relative compaction at the specified moisture content.
- 5.2 Compaction of *rock* fills shall be performed in accordance with Section 6.3.

6. PLACING, SPREADING AND COMPACTION OF FILL MATERIAL

- 6.1 *Soil* fill, as defined in Paragraph 3.1.1, shall be placed by the Contractor in accordance with the following recommendations:
- 6.1.1 *Soil* fill shall be placed by the Contractor in layers that, when compacted, should generally not exceed 8 inches. Each layer shall be spread evenly and shall be thoroughly mixed during spreading to obtain uniformity of material and moisture in each layer. The entire fill shall be constructed as a unit in nearly level lifts. Rock materials greater than 12 inches in maximum dimension shall be placed in accordance with Section 6.2 or 6.3 of these specifications.
- 6.1.2 In general, the *soil* fill shall be compacted at a moisture content at or above the optimum moisture content as determined by ASTM D 1557-02.
- 6.1.3 When the moisture content of *soil* fill is below that specified by the Consultant, water shall be added by the Contractor until the moisture content is in the range specified.
- 6.1.4 When the moisture content of the *soil* fill is above the range specified by the Consultant or too wet to achieve proper compaction, the *soil* fill shall be aerated by the Contractor by blading/mixing, or other satisfactory methods until the moisture content is within the range specified.

- 6.1.5 After each layer has been placed, mixed, and spread evenly, it shall be thoroughly compacted by the Contractor to a relative compaction of at least 90 percent. Relative compaction is defined as the ratio (expressed in percent) of the in-place dry density of the compacted fill to the maximum laboratory dry density as determined in accordance with ASTM D 1557-02. Compaction shall be continuous over the entire area, and compaction equipment shall make sufficient passes so that the specified minimum relative compaction has been achieved throughout the entire fill.
 - 6.1.6 Where practical, soils having an Expansion Index greater than 50 should be placed at least 3 feet below finish pad grade and should be compacted at a moisture content generally 2 to 4 percent greater than the optimum moisture content for the material.
 - 6.1.7 Properly compacted *soil* fill shall extend to the design surface of fill slopes. To achieve proper compaction, it is recommended that fill slopes be over-built by at least 3 feet and then cut to the design grade. This procedure is considered preferable to track-walking of slopes, as described in the following paragraph.
 - 6.1.8 As an alternative to over-building of slopes, slope faces may be back-rolled with a heavy-duty loaded sheepsfoot or vibratory roller at maximum 4-foot fill height intervals. Upon completion, slopes should then be track-walked with a D-8 dozer or similar equipment, such that a dozer track covers all slope surfaces at least twice.
- 6.2 *Soil-rock* fill, as defined in Paragraph 3.1.2, shall be placed by the Contractor in accordance with the following recommendations:
- 6.2.1 Rocks larger than 12 inches but less than 4 feet in maximum dimension may be incorporated into the compacted *soil* fill, but shall be limited to the area measured 15 feet minimum horizontally from the slope face and 5 feet below finish grade or 3 feet below the deepest utility, whichever is deeper.
 - 6.2.2 Rocks or rock fragments up to 4 feet in maximum dimension may either be individually placed or placed in windrows. Under certain conditions, rocks or rock fragments up to 10 feet in maximum dimension may be placed using similar methods. The acceptability of placing rock materials greater than 4 feet in maximum dimension shall be evaluated during grading as specific cases arise and shall be approved by the Consultant prior to placement.

- 6.2.3 For individual placement, sufficient space shall be provided between rocks to allow for passage of compaction equipment.
- 6.2.4 For windrow placement, the rocks should be placed in trenches excavated in properly compacted *soil* fill. Trenches should be approximately 5 feet wide and 4 feet deep in maximum dimension. The voids around and beneath rocks should be filled with approved granular soil having a Sand Equivalent of 30 or greater and should be compacted by flooding. Windrows may also be placed utilizing an "open-face" method in lieu of the trench procedure, however, this method should first be approved by the Consultant.
- 6.2.5 Windrows should generally be parallel to each other and may be placed either parallel to or perpendicular to the face of the slope depending on the site geometry. The minimum horizontal spacing for windrows shall be 12 feet center-to-center with a 5-foot stagger or offset from lower courses to next overlying course. The minimum vertical spacing between windrow courses shall be 2 feet from the top of a lower windrow to the bottom of the next higher windrow.
- 6.2.6 Rock placement, fill placement and flooding of approved granular soil in the windrows should be continuously observed by the Consultant.
- 6.3 *Rock* fills, as defined in Section 3.1.3, shall be placed by the Contractor in accordance with the following recommendations:
- 6.3.1 The base of the *rock* fill shall be placed on a sloping surface (minimum slope of 2 percent). The surface shall slope toward suitable subdrainage outlet facilities. The *rock* fills shall be provided with subdrains during construction so that a hydrostatic pressure buildup does not develop. The subdrains shall be permanently connected to controlled drainage facilities to control post-construction infiltration of water.
- 6.3.2 *Rock* fills shall be placed in lifts not exceeding 3 feet. Placement shall be by rock trucks traversing previously placed lifts and dumping at the edge of the currently placed lift. Spreading of the *rock* fill shall be by dozer to facilitate *seating* of the rock. The *rock* fill shall be watered heavily during placement. Watering shall consist of water trucks traversing in front of the current rock lift face and spraying water continuously during rock placement. Compaction equipment with compactive energy comparable to or greater than that of a 20-ton steel vibratory roller or other compaction equipment providing suitable energy to achieve the

required compaction or deflection as recommended in Paragraph 6.3.3 shall be utilized. The number of passes to be made should be determined as described in Paragraph 6.3.3. Once a *rock* fill lift has been covered with *soil* fill, no additional *rock* fill lifts will be permitted over the *soil* fill.

- 6.3.3 Plate bearing tests, in accordance with ASTM D 1196-93, may be performed in both the compacted *soil* fill and in the *rock* fill to aid in determining the required minimum number of passes of the compaction equipment. If performed, a minimum of three plate bearing tests should be performed in the properly compacted *soil* fill (minimum relative compaction of 90 percent). Plate bearing tests shall then be performed on areas of *rock* fill having two passes, four passes and six passes of the compaction equipment, respectively. The number of passes required for the *rock* fill shall be determined by comparing the results of the plate bearing tests for the *soil* fill and the *rock* fill and by evaluating the deflection variation with number of passes. The required number of passes of the compaction equipment will be performed as necessary until the plate bearing deflections are equal to or less than that determined for the properly compacted *soil* fill. In no case will the required number of passes be less than two.
- 6.3.4 A representative of the Consultant should be present during *rock* fill operations to observe that the minimum number of “passes” have been obtained, that water is being properly applied and that specified procedures are being followed. The actual number of plate bearing tests will be determined by the Consultant during grading.
- 6.3.5 Test pits shall be excavated by the Contractor so that the Consultant can state that, in their opinion, sufficient water is present and that voids between large rocks are properly filled with smaller rock material. In-place density testing will not be required in the *rock* fills.
- 6.3.6 To reduce the potential for “piping” of fines into the *rock* fill from overlying *soil* fill material, a 2-foot layer of graded filter material shall be placed above the uppermost lift of *rock* fill. The need to place graded filter material below the *rock* should be determined by the Consultant prior to commencing grading. The gradation of the graded filter material will be determined at the time the *rock* fill is being excavated. Materials typical of the *rock* fill should be submitted to the Consultant in a timely manner, to allow design of the graded filter prior to the commencement of *rock* fill placement.
- 6.3.7 *Rock* fill placement should be continuously observed during placement by the Consultant.

7. OBSERVATION AND TESTING

- 7.1 The Consultant shall be the Owner's representative to observe and perform tests during clearing, grubbing, filling, and compaction operations. In general, no more than 2 feet in vertical elevation of *soil* or *soil-rock* fill should be placed without at least one field density test being performed within that interval. In addition, a minimum of one field density test should be performed for every 2,000 cubic yards of *soil* or *soil-rock* fill placed and compacted.
- 7.2 The Consultant should perform a sufficient distribution of field density tests of the compacted *soil* or *soil-rock* fill to provide a basis for expressing an opinion whether the fill material is compacted as specified. Density tests shall be performed in the compacted materials below any disturbed surface. When these tests indicate that the density of any layer of fill or portion thereof is below that specified, the particular layer or areas represented by the test shall be reworked until the specified density has been achieved.
- 7.3 During placement of *rock* fill, the Consultant should observe that the minimum number of passes have been obtained per the criteria discussed in Section 6.3.3. The Consultant should request the excavation of observation pits and may perform plate bearing tests on the placed *rock* fills. The observation pits will be excavated to provide a basis for expressing an opinion as to whether the *rock* fill is properly seated and sufficient moisture has been applied to the material. When observations indicate that a layer of *rock* fill or any portion thereof is below that specified, the affected layer or area shall be reworked until the *rock* fill has been adequately seated and sufficient moisture applied.
- 7.4 A settlement monitoring program designed by the Consultant may be conducted in areas of *rock* fill placement. The specific design of the monitoring program shall be as recommended in the Conclusions and Recommendations section of the project Geotechnical Report or in the final report of testing and observation services performed during grading.
- 7.5 The Consultant should observe the placement of subdrains, to verify that the drainage devices have been placed and constructed in substantial conformance with project specifications.
- 7.6 Testing procedures shall conform to the following Standards as appropriate:

7.6.1 Soil and Soil-Rock Fills:

- 7.6.1.1 Field Density Test, ASTM D 1556-02, *Density of Soil In-Place By the Sand-Cone Method.*
- 7.6.1.2 Field Density Test, Nuclear Method, ASTM D 6938-08A, *Density of Soil and Soil-Aggregate In-Place by Nuclear Methods (Shallow Depth).*
- 7.6.1.3 Laboratory Compaction Test, ASTM D 1557-02, *Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-Pound Hammer and 18-Inch Drop.*
- 7.6.1.4. Expansion Index Test, ASTM D 4829-03, *Expansion Index Test.*

7.6.2 Rock Fills

- 7.6.2.1 Field Plate Bearing Test, ASTM D 1196-93 (Reapproved 1997) *Standard Method for Nonreparative Static Plate Load Tests of Soils and Flexible Pavement Components, For Use in Evaluation and Design of Airport and Highway Pavements.*

8. PROTECTION OF WORK

- 8.1 During construction, the Contractor shall properly grade all excavated surfaces to provide positive drainage and prevent ponding of water. Drainage of surface water shall be controlled to avoid damage to adjoining properties or to finished work on the site. The Contractor shall take remedial measures to prevent erosion of freshly graded areas until such time as permanent drainage and erosion control features have been installed. Areas subjected to erosion or sedimentation shall be properly prepared in accordance with the Specifications prior to placing additional fill or structures.
- 8.2 After completion of grading as observed and tested by the Consultant, no further excavation or filling shall be conducted except in conjunction with the services of the Consultant.

9. CERTIFICATIONS AND FINAL REPORTS

- 9.1 Upon completion of the work, Contractor shall furnish Owner a certification by the Civil Engineer stating that the lots and/or building pads are graded to within 0.1 foot vertically of elevations shown on the grading plan and that all tops and toes of slopes are within 0.5 foot horizontally of the positions shown on the grading plans. After installation of a section of subdrain, the project Civil Engineer should survey its location and prepare an *as-built* plan of the subdrain location. The project Civil Engineer should verify the proper outlet for the subdrains and the Contractor should ensure that the drain system is free of obstructions.
- 9.2 The Owner is responsible for furnishing a final as-graded soil and geologic report satisfactory to the appropriate governing or accepting agencies. The as-graded report should be prepared and signed by a California licensed Civil Engineer experienced in geotechnical engineering and by a California Certified Engineering Geologist, indicating that the geotechnical aspects of the grading were performed in substantial conformance with the Specifications or approved changes to the Specifications.

LIST OF REFERENCES

1. Boore, D. M., and G. M Atkinson (2006), *Ground Motion Prediction Equations for the Average Horizontal Component of PGA, PVG, and 5%-Ramped PSA at Spectral Periods Between 0.01s and 10.0s*, Earthquake Spectra, Vol. 24, Issue I, February 2008.
2. California Department of Conservation, Division of Mines and Geology, *Probabilistic Seismic Hazard Assessment for the State of California*, Open File Report 96-08, 1996.
3. California Geological Survey, *Seismic Shaking Hazards in California*, Based on the USGS/CGS Probabilistic Seismic Hazards Assessment (PSHA) Model, 2002 (revised April 2003). 10% probability of being exceeded in 50 years.
<http://redirect.conservacion.ca.gov/cgs/rghm/pshamap/pshamain.html>
4. Campbell, K. W., Y. Bozorgnia, *NGA Ground Motion Model for the Geometric Mean Horizontal Component of PGA, PGV, PGD and 5% Damped Linear Elastic Response Spectra for Periods Ranging from 0.01 to 10 s*, Preprint of version submitted for publication in the NGA Special Volume of Earthquake Spectra, Volume 24, Issue 1, pages 139-171, February 2008.
5. Chiou, Brian and Robert R. Youngs, *A NGA Model for the Average Horizontal Component of Peak Ground Motion and Response Spectra*, preprint for article to be published in NGA Special Edition for Earthquake Spectra, Spring 2008.
6. *Geologic Map of the San Diego 30' x 60' Quadrangle, California*, California Geologic Survey, 2005.
7. Jennings, C. W., 1994, California Division of Mines and Geology, *Fault Activity Map of California and Adjacent Areas*, California Geologic Data Map Series Map No. 6.
8. Risk Engineering, *EZ-FRISK (Version 7.52)*, 2011.
9. Unpublished reports and maps on file with Geocon Incorporated.
10. USGS computer program, *Seismic Hazard Curves and Uniform Hazard Response Spectra (Version 5.1.0, February 10, 2010)*.

ATTACHMENT F
INTENTIONALLY LEFT BLANK

City of San Diego

CITY CONTACT: Eleida Felix Yackel, Contract Specialist, Email: EFelixYackel@sandiego.gov
Phone No. (619) 533-3449, Fax No. (619) 533-3633



ADDENDUM "C"

FOR

WEGEFORTH ELEMENTARY SCHOOL JOINT USE PARK IMPROVEMENTS

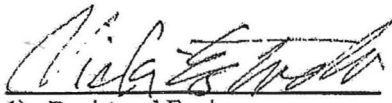
| | |
|----------------------|------------------------|
| BID NO.: | <u>K-14-5653-DBB-3</u> |
| SAP NO. (WBS/IO/CC): | <u>S-00764</u> |
| CLIENT DEPARTMENT: | <u>1714</u> |
| COUNCIL DISTRICT: | <u>6</u> |
| PROJECT TYPE: | <u>GF</u> |

BID DUE DATE:

**2:00 PM
MAY 7, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101**

ENGINEER OF WORK

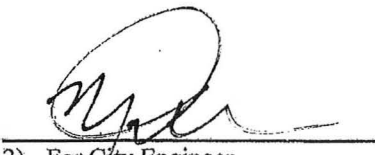
The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer:


1) Registered Engineer

4/21/14
Date

Seal:




2) For City Engineer

4/22/14
Date

Seal



A. CHANGES TO CONTRACT DOCUMENTS

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

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

B. ADDENDUM B

1. To Item B, Volume 2, pages 4 through 6, Sub-item 1, Bidding Documents, Proposal (Bid), **DELETE** in their entirety and **SUBSTITUTE** with pages 4 through 6 of this Addendum.

James Nagelvoort, Director
Public Works Department

Dated: *April 22, 2014*
San Diego, California

JN/BD/egz

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Wegeforth Elementary School Joint Use Park Improvements**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

| Item | Quantity | Unit | NAICS | Payment Reference | Description | Unit Price | Extension |
|----------------------------------|----------|------|--------|-------------------|---|---------------------------------|-------------|
| BASE BID | | | | | | | |
| 1 | 1 | LS | 524126 | 2-4.1 | Bonds (Payment and Performance) | | \$ |
| 2 | 1 | LS | 237990 | 9-3.1 | Construction of Joint Use Facilities Including Sport Fields, Courts, Walkways, Landscaping, Parking, Security Lights, Drainage, Comfort Station and Accessibility Upgrades. | | \$ |
| 3 | 1 | LS | 541330 | 701-13.8.4 | Storm Water Pollution Prevention | | \$ |
| 4 | 1 | AL | 236220 | 701-13.8.4 | Permits – Type I | | \$10,000.00 |
| 5 | 1 | AL | 237310 | 9-3.1 | Special Inspection - Type I | | \$6,000.00 |
| 6 | 1 | AL | | 9-3.5 | Field Orders - Type II | | \$50,000.00 |
| 7 | 1 | AL | 237110 | 306-14.1 | Water and Sewer Capacity Fees | | \$40,000.00 |
| ESTIMATED TOTAL BASE BID: | | | | | | | \$ |

TOTAL BID PRICE FOR BID (Items 1 through 7 inclusive) amount written in words:

BIDDING DOCUMENTS

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

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

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

Bidder: _____

Title: _____

Business Address: _____

Place of Business: _____

Place of Residence: _____

Signature: _____

BIDDING DOCUMENTS

NOTES:

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

City of San Diego

CITY CONTACT: Eleida Felix Yackel, Contract Specialist, Email: EFelixYackel@sandiego.gov
Phone No. (619) 533-3449, Fax No. (619) 533-3633

ADDENDUM "B"

FOR



WEGEFORTH ELEMENTARY SCHOOL JOINT USE PARK IMPROVEMENTS

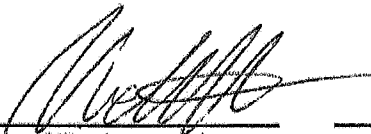
BID NO.: K-14-5653-DBB-3
SAP NO. (WBS/IO/CC): S-00764
CLIENT DEPARTMENT: 1714
COUNCIL DISTRICT: 6
PROJECT TYPE: GF

BID DUE DATE:

2:00 PM
APRIL 23, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

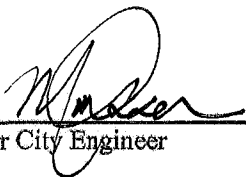
ENGINEER OF WORK

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

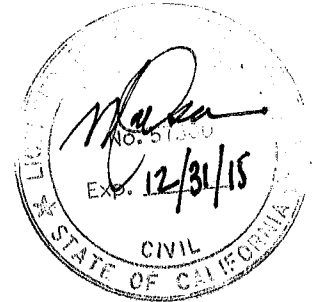
 4/17/14
1) Registered Engineer Date

Seal:



 4/17/14
2) For City Engineer Date

Seal



A. CHANGES TO CONTRACT DOCUMENTS

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

B. VOLUME 2

1. To Bidding Documents, Proposal (Bid), pages 10 through 12, **DELETE** in their entirety and **SUBSTITUTE** with pages 4 through 6 of this Addendum.
2. To List of Subcontractors, page 13, **DELETE** in its entirety and **SUBSTITUTE** with page 7 of this Addendum.

James Nagelvoort, Director
Public Works Department

Dated: *April 17, 2014*
San Diego, California

JN/AR/egz

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Wegeforth Elementary School Joint Use Park Improvements**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

| Item | Quantity | Unit | NAICS | Payment Reference | Description | Unit Price | Extension |
|---------------------------------|----------|------|--------|-------------------|---|--------------|-------------|
| BASE BID | | | | | | | |
| 1 | 1 | LS | 524126 | 2-4.1 | Bonds (Payment and Performance) | | \$ |
| 2 | 1 | LS | 237990 | 9-3.1 | Construction of Joint Use Facilities Including Sport Fields, Courts, Walkways, Landscaping, Parking, Security Lights, Drainage, Comfort Station and Accessibility Upgrades. | | \$ |
| 3 | 1 | LS | 541330 | 701-13.8.4 | Storm Water Pollution Prevention | | \$ |
| 4 | 1 | AL | 236220 | 701-13.8.4 | Permits - Type I | | \$30,000.00 |
| 5 | 1 | AL | 237310 | 9-3.1 | Special Inspection - Type I | | \$6,000.00 |
| 6 | 1 | AL | | 9-3.5 | Field Orders - Type II | | \$50,000.00 |
| 7 | 1 | AL | 237110 | 306-14.1 | Water and Sewer Capacity Fees | | \$10,000.00 |
| ESTIMATED TOTAL BASE BID | | | | | | | \$ |

TOTAL BID PRICE FOR BID (Items 1 through 7 inclusive) amount written in words:

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

BIDDING DOCUMENTS

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

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

Bidder: _____

Title: _____

Business Address: _____

Place of Business: _____

Place of Residence: _____

Signature: _____

NOTES:

- A. The City shall determine the low Bid based on the Base Bid alone.
- B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.

BIDDING DOCUMENTS

- D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

| NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR | CONSTRUCTOR OR DESIGNER | SUBCONTRACTOR LICENSE NUMBER | TYPE OF WORK | DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED \OUT) | MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB [Ⓞ] | WHERE CERTIFIED [Ⓞ] | CHECK IF JOINT VENTURE PARTNERSHIP |
|--|-------------------------|--|--------------|---|--|------------------------------|------------------------------------|
| Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ | | PLEASE TAKE NOTICE Requirement to provide subcontractors license numbers becomes effective July 1, 2014 | | | | | |
| Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ | | | | | | | |
| Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ | | | | | | | |

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

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

Form AA 35

City of San Diego

CITY CONTACT: Eleida Felix Yackel, Contract Specialist, Email: EFelixYackel@saniego.gov
Phone No. (619) 533-3449, Fax No. (619) 533-3633

ADDENDUM "A"

FOR



WEGEFORTH ELEMENTARY SCHOOL JOINT USE PARK IMPROVEMENTS

BID NO.: K-14-5653-DBB-3
SAP NO. (WBS/IO/CC): S-00764
CLIENT DEPARTMENT: 1714
COUNCIL DISTRICT: 6
PROJECT TYPE: GF

BID DUE DATE:

2:00 PM
APRIL 23, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

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

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

James Nagelvoort, Director
Public Works Department

Dated: *April 14, 2014*
San Diego, California

JN/AR/lis

City of San Diego

CONTRACTOR'S NAME: DICK MILLER INC.
ADDRESS: 930 BOARDWALK, SUITE H, SAN MARCOS, CA 92078
TELEPHONE NO.: 760-471-6842 FAX NO.: 760-471-6178
CITY CONTACT: Claudia Abarca - Contract Specialist, Email: Cabarca@sandiego.gov
Phone No. (619) 533-3439, Fax No. (619) 533-3450
ADelRincon/AReyes/egz

CONTRACT DOCUMENTS



FOR

WEGEFORTH ELEMENTARY SCHOOL JOINT USE PARK IMPROVEMENTS

VOLUME 2 OF 2

BID NO.: K-14-5653-DBB-3-C
SAP NO. (WBS/IO/CC): S-00764
CLIENT DEPARTMENT: 1714
COUNCIL DISTRICT: 6
PROJECT TYPE: GF

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE FEDERAL

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

TABLE OF CONTENTS

DESCRIPTION

PAGE NUMBER

Volume 2 - Bidding Documents

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

- 1. Bid/Proposal..... 3
- 2. Bid Bond 6
- 3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106 7
- 4. Contractors Certification of Pending Actions 8
- 5. Equal Benefits Ordinance Certification of Compliance..... 9
- 6. Proposal (Bid)..... 10
- 7. Form AA35 - List of Subcontractors 13
- 8. Form AA40 - Named Equipment/Material Supplier List 14

BIDDING DOCUMENTS

PROPOSAL

Bidder's General Information

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

- (1) Name under which business is conducted _____
- (2) Signature (Given and surname) of proprietor _____
- (3) Place of Business (Street & Number) _____
- (4) City and State _____ Zip Code _____
- (5) Telephone No. _____ Facsimile No. _____
- (6) Email address: _____

IF A PARTNERSHIP, SIGN HERE:

- (1) Name under which business is conducted _____

BIDDING DOCUMENTS

(2) Name of each member of partnership, indicate character of each partner, general or special (limited):

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

Full Name and Character of partner

(4) Place of Business (Street & Number) _____

(5) City and State _____ Zip Code _____

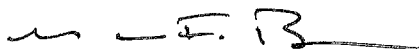
(6) Telephone No. _____ Facsimile No. _____

(7) Email address: _____

IF A CORPORATION, SIGN HERE:

(1) Name under which business is conducted DICK MILLER INC.

(2) Signature, with official title of officer authorized to sign for the corporation:



(Signature)
GLEN BULLOCK

(Printed Name)
PRESIDENT

(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of CALIFORNIA

(4) Place of Business (Street & Number) 930 BOARDWALK, SUITE H

(5) City and State SAN MARCOS, CA Zip Code 92078

(6) Telephone No. 760-471-6842 Facsimile No. 760-471-6178

(7) Email address: gbullock@dickmillerinc.com

BIDDING DOCUMENTS

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "NOTICE INVITING BIDS", the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A, B & C-12

LICENSE NO. 380204 EXPIRES JUNE 30, 2015

This license classification must also be shown on the front of the bid envelope. Failure to show license classification on the bid envelope may cause return of the bid unopened.

TAX IDENTIFICATION NUMBER (TIN): [REDACTED]

E-Mail Address: gbullock@dickmillerinc.com

THIS PROPOSAL MUST BE NOTARIZED BELOW:

I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature *m. E. B.* Title PRESIDENT

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 05 DAY OF ~~APRIL~~ MAY, 2014.

Notary Public in and for the County of SAN DIEGO, State of CALIFORNIA

[Signature]

(NOTARIAL SEAL)



BIDDING DOCUMENTS

BID BOND

KNOW ALL MEN BY THESE PRESENTS,

That Dick Miller, Inc. as Principal, and
The Ohio Casualty Insurance Company as Surety, are
held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of **10% OF THE TOTAL BID AMOUNT** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled

Wegeforth Elementary School Joint Use Park Improvements/ K-14-5653-DBB-3-C

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 8th day of April, 2014

Dick Miller, Inc. (SEAL) The Ohio Casualty Insurance Company (SEAL)
(Principal) (Surety)

By: [Signature]
(Signature)

By: [Signature]
(Signature)
Brittany Aceves, Attorney-in-Fact

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

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

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

Certificate No. 6280932

American Fire and Casualty Company
The Ohio Casualty Insurance Company

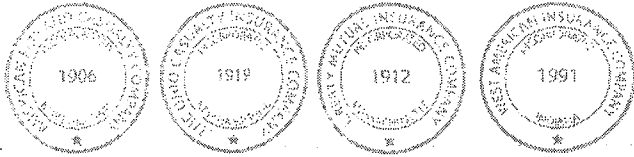
Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Bart Stewart; Brittany Aceves; Molly Cashman

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

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of September, 2013.



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

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

STATE OF WASHINGTON ss
COUNTY OF KING

On this 11th day of September, 2013, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

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



By: KD Riley
KD Riley, Notary Public

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

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

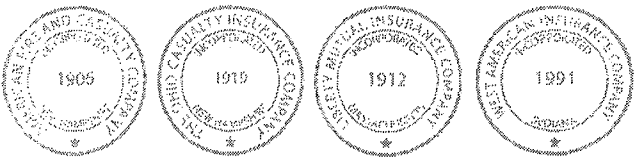
ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this _____ day of _____, 20_____.



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

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

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

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of San Diego

On 4/8/14 before me, Molly Cashman, Notary Public
(Here insert name and title of the officer)

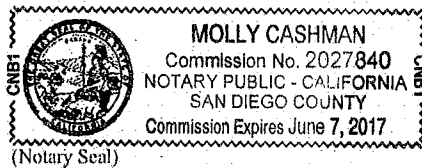
personally appeared Brittany Aceves

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 of Notary Public



ADDITIONAL OPTIONAL INFORMATION

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- 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

| |
|---|
| DESCRIPTION OF THE ATTACHED DOCUMENT _____ (Title or description of attached document) _____ (Title or description of attached document continued) Number of Pages _____ Document Date _____ _____ (Additional information) |
|---|

| |
|---|
| CAPACITY CLAIMED BY THE SIGNER <input type="checkbox"/> Individual (s) <input type="checkbox"/> Corporate Officer _____ (Title) <input type="checkbox"/> Partner(s) <input type="checkbox"/> Attorney-in-Fact <input type="checkbox"/> Trustee(s) <input type="checkbox"/> Other _____ |
|---|

BIDDING DOCUMENTS

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California)
County of SAN DIEGO) ss.

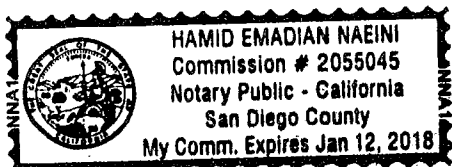
GLEN BULLOCK, being first duly sworn, deposes and says that he or she is PRESIDENT of the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Signed: [Signature]

Title: PRESIDENT

Subscribed and sworn to before me this 05 day of MAY, 2014

[Signature] Notary Public



(SEAL)

BIDDING DOCUMENTS

CONTRACTORS CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past ten 10 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.

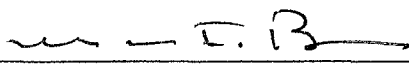
- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.

- 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 |
|---------------|----------|----------------------|------------------|--------|----------------------------------|
| | | | | | |
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| | | | | | |

Contractor Name: DICK MILLER INC.

Certified By GLEN BULLOCK Title PRESIDENT
Name

 Date 5-5-14
Signature

USE ADDITIONAL FORMS AS NECESSARY

BIDDING DOCUMENTS

**EQUAL BENEFITS ORDINANCE
CERTIFICATION OF COMPLIANCE**



For additional information, contact:
CITY OF SAN DIEGO
EQUAL BENEFITS PROGRAM
 202 C Street, MS 9A, San Diego, CA 92101
 Phone (619) 533-3948 Fax (619) 533-3220

COMPANY INFORMATION

| | |
|---|---|
| Company Name: DICK MILLER INC. | Contact Name: GLEN BULLOCK |
| Company Address: 930 BOARDWALK, SUITE H, SAN MARCOS, CA 92078 | Contact Phone: 760-471-6842 |
| | Contact Email: gbullock@dickmillerinc.com |

CONTRACT INFORMATION

| | |
|---|-----------------|
| Contract Title: WEGEFORTH ELEMENTARY SCHOOL JOINT USE PARK IMPROVEMENTS | Start Date: N/A |
| Contract Number (if no number, state location): K-14-5652-DBB-3-C | End Date: N/A |

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.

| | | | |
|-------------------------|-----------|-----------|--------|
| GLEN BULLOCK | PRESIDENT | | 5-5-14 |
| Name/Title of Signatory | | Signature | Date |

FOR OFFICIAL CITY USE ONLY

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

(Rev 02/15/2011)

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Wegeforth Elementary School Joint Use Park Improvements**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

| Item | Quantity | Unit | NAICS | Payment Reference | Description | Unit Price | Extension |
|----------------------------------|----------|------|--------|-------------------|---|---------------------------------|------------------------|
| BASE BID | | | | | | | |
| 1 | 1 | LS | 524126 | 2-4.1 | Bonds (Payment and Performance) | | \$ 23,000.00 |
| 2 | 1 | LS | 237990 | 9-3.1 | Construction of Joint Use Facilities Including Sport Fields, Courts, Walkways, Landscaping, Parking, Security Lights, Drainage, Comfort Station and Accessibility Upgrades. | | \$ 2,169,232.00 |
| 3 | 1 | LS | 541330 | 701-13.8.4 | Storm Water Pollution Prevention | | \$ 25,000.00 |
| 4 | 1 | AL | 236220 | 701-13.8.4 | Permits – Type I | | \$10,000.00 |
| 5 | 1 | AL | 237310 | 9-3.1 | Special Inspection - Type I | | \$6,000.00 |
| 6 | 1 | AL | | 9-3.5 | Field Orders - Type II | | \$50,000.00 |
| 7 | 1 | AL | 237110 | 306-14.1 | Water and Sewer Capacity Fees | | \$40,000.00 |
| ESTIMATED TOTAL BASE BID: | | | | | | | \$ 2,323,232.00 |

TOTAL BID PRICE FOR BID (Items 1 through 7 inclusive) amount written in words:
 TWO MILLION, THREE HUNDRED TWENTY THREE THOUSAND, TWO HUNDRED THIRTY TWO DOLLARS

BIDDING DOCUMENTS

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

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

GLEN BULLOCK

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

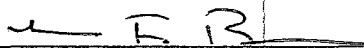
Bidder: Dick Miller Inc. - Glen Bullock

Title: President, Secretary & Treasurer

Business Address: 930 Boardwalk, Suite H, San Marcos, CA 92078

Place of Business: 930 Boardwalk, Suite H, San Marcos, CA 92078

Place of Residence: 5605 Golden Trails Way, Oceanside, CA 92057

Signature: 

BIDDING DOCUMENTS

NOTES:

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

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

| NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR | CONSTRUCTOR OR DESIGNER | SUBCONTRACTOR LICENSE NUMBER | TYPE OF WORK | DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT) | MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB | WHERE CERTIFIED | CHECK IF JOINT VENTURE PARTNERSHIP |
|---|-------------------------|--|--|--|---|-----------------|------------------------------------|
| Name: RESTROOM FACILITIES LIMITED Address: 1707 COLT CIRCLE City: MARBLE FALLS State: TEXAS Zip: 78645 Phone: 512-222-5454 | CONSTRUCTOR | PLEASE TAKE NOTICE Requirement to provide subcontractors license numbers becomes effective July 1, 2014 | COMFORT STATION (PARTIAL) | \$214,017.00 | | | |
| Name: AMERICAN CONCRETE Address: 540 OPPER STREET City: ESCONDIDO State: CA Zip: 92029 Phone: 760-471-9907 | CONSTRUCTOR | | CONCRETE (PARTIAL) | \$127,000.00 | | | |
| Name: PERRY ELECTRIC Address: 9201 ISAAC STREET, STE. B City: SANTEE State: CA Zip: 92071 Phone: 619-449-0045 | CONSTRUCTOR | | SECURITY LIGHTING & ELECTRICAL (PARTIAL) | \$279,000.00 | | | |

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

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

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

Form AA 35

34.45

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

| NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR | CONSTRUCTOR OR DESIGNER | SUBCONTRACTOR LICENSE NUMBER | TYPE OF WORK | DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT) | MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB | WHERE CERTIFIED | CHECK IF JOINT VENTURE PARTNERSHIP |
|--|-------------------------|--|---|--|---|-----------------|------------------------------------|
| Name: SCOTT FENCE COMPANY Address: 1255 DISTRIBUTION WAY City: VISTA State: CA Zip: 92081 Phone: 760-720-3766 | CONSTRUCTOR | PLEASE TAKE NOTICE Requirement to provide subcontractors license numbers becomes effective July 1, 2014 | CHAIN LINK FENCING, GATES & BACKSTOPS (PARTIAL) | \$134,000.00 | | | |
| Name: _____ Address: _____ City: _____ State: CA Zip: _____ Phone: _____ | CONSTRUCTOR | | | \$0.00 | | | |
| Name: _____ Address: _____ City: _____ State: CA Zip: _____ Phone: _____ | CONSTRUCTOR | | | | | | |

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

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

Form AA 35

BIDDING DOCUMENTS

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

The Bidder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

| NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER | MATERIALS OR SUPPLIES | DOLLAR VALUE OF MATERIAL OR SUPPLIES | SUPPLIER (Yes/No) | MANUFACTURER (Yes/No) | MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB [ⓐ] | WHERE CERTIFIED [ⓑ] |
|--|--------------------------|---|----------------------|--------------------------|---|---------------------------------|
| Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ | | | | | | |
| Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ | | | | | | |
| Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ | | | | | | |

① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |

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

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

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



THE CITY OF SAN DIEGO

May 11, 2012

Dick Miller, Inc.
Glen Bullock
Richard Miller
930 Boardwalk Suite G
San Marcos, CA 92078

Subject: Small Local Business Enterprise Certification

Dear Glen and Richard:

Congratulations! We have reviewed your application and you have been approved for certification as a City of San Diego Small Local Business Enterprise (SLBE). Your certification number is 12DM0726 and your classification is Construction. Please reference this certification number when bidding on City projects.

For the City's SLBE Program, your certification is effective May 4, 2012. This certification expires on May 4, 2014 at which time you will need to reapply in accordance with the SLBE guidelines.

Special Note:

To ensure the correct information is included in our database please go to <https://pro.prismcompliance.com> select City of San Diego under jurisdiction, select go, type in your company name, select go, select your company and review the information. If there is inaccurate/missing information please e-mail pjordan@sandiego.gov.

If you have any questions please call 619-236-6297.

Thank you,


Debra Fischle-Faulk
Department Director



Administration Department
Small Local Business Enterprise Program
202 C Street, 9th Floor, MS 9A
San Diego, CA 92101-4806
Telephone (619) 236-6297 Fax (619) 236-7344

City_of_San_Diego Certified Business

1 company(ies) found

May 05, 2014

| Company | Contact | Market Area | Certification | Expires | Industry |
|--------------------------|---|-------------|---------------|------------|--|
| Dick Miller, Inc. | | | | | |
| Gender | Contact Glen Bullock | | DVBE | 05/31/2016 | 237 Heavy and Civil Engineering |
| Race/Ethnicity | Phone 760-471-6842 | | Micro | 05/31/2016 | Construction... 237110 Water and Sewer |
| | Email gbullock@dickmilleri nc.com | | SLBE | 05/05/2016 | Line and Related Structures Construction |





**DICK MILLER
 INC - #53651**

| | | | |
|----------------------------|--|-------|----------------|
| Legal Business Name | DICK MILLER INC | | |
| Doing Business As | DICK MILLER INC | | |
| Address | 930 BOARDWALK STE H | Phone | (760) 471-6842 |
| | SAN MARCOS, CA 92078 | FAX | (760) 471-6178 |
| Email | gbullock@dickmillerinc.com | | |
| Business Types | Construction | | |
| Service Areas | Imperial, Orange, Riverside, San Diego, | | |
| Keywords | GENERAL ENGINEERING EXCAVATION WORK PAVING MASONRY PARKING HIGHWAY IMPROVEMENTS | | |
| Construction License Types | A - General Engineering B - General Building Contractor C-12 - Excavation work and paving | | |
| Classifications | 721410 - Highway and road construction services 721411 - Infrastructure building and surfacing and paving services 721519 - Masonry and stonework services 811015 - Civil engineering | | |

Active Certifications

| | | | |
|------|----------|-----------|-----------|
| SB | Approved | 20-May-13 | 31-May-16 |
| DVBE | Approved | 4-Jun-13 | 31-May-16 |

Certification History

| | | | |
|------------|---------|-----------|-----------|
| DVBE | Expired | 15-May-12 | 31-May-13 |
| SB | Expired | 15-May-12 | 31-May-13 |
| DVBE | Expired | 12-Jun-10 | 31-May-12 |
| SB (Micro) | Expired | 18-May-10 | 31-May-12 |
| SB (Micro) | Expired | 21-Apr-09 | 30-Apr-10 |
| DVBE | Expired | 21-Apr-09 | 30-Apr-10 |

California Certification Report

53651 - DICK MILLER INC - SB | DVBE

| | | | |
|-----------------------|---|-------|----------------|
| Legal Business Name | DICK MILLER INC | | |
| Doing Business As | DICK MILLER INC | | |
| Address | 930 BOARDWALK STE H | Phone | (760) 471-6842 |
| | SAN MARCOS, CA 92078 | FAX | (760) 471-6178 |
| Email | gbullock@dickmillerinc.com | | |
| Web Page | | | |
| Active Certifications | SB May 20, 2013 - May 31, 2016 | | |
| | DVBE Jun 4, 2013 - May 31, 2016 | | |
| Business Types | Construction; | | |
| Classifications | [721410] Highway and road construction services | | |
| | [721411] Infrastructure building and surfacing and paving services | | |
| | [721519] Masonry and stonework services | | |
| | [811015] Civil engineering | | |
| Keywords | GENERAL ENGINEERING EXCAVATION WORK PAVING MASONRY PARKING HIGHWAY IMPROVEMENTS | | |