

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: **CLAUDIA ABARCA**, Email: **cabarca@sandiego.gov**, Ph: **619-236-6669**, Fax: **619-236-5904**
A.Corsi/NB/egz



CONTRACT DOCUMENTS FOR

CITY HEIGHTS SQUARE MINI PARK

VOLUME 1 OF 2

BID NO.: _____ K-13-5456-DBB-3-A
SAP NO. (WBS/IO/CC): _____ S-01070
CLIENT DEPARTMENT: _____ 1714
COUNCIL DISTRICT: _____ 3
PROJECT TYPE: _____ BE

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: **STATE**
- THIS IS A STATE FUNDED CONTRACT THROUGH THE REDEVELOPMENT AGENCY.

BID DUE DATE:

**2:00 PM
OCTOBER 24, 2012
CITY OF SAN DIEGO
PUBLIC WORKS DEPARTMENT
1200 THIRD AVENUE, SUITE 200, MS 56P
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 and Landscape Architect:


1) Registered Landscape Architect

Seal:
9/16/12
Date




2) For City Engineer

9/14/12
Date

((((((((((((((((((((ATTENTION))))))))))))))))))))

The 2010 edition of the City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”) now contains the following distinct Contract Documents:

- 1) ***Equal Opportunity Contracting Program Requirements*** - This Contract Document sets forth the standard requirements for the City’s equal opportunity contracting program. When additional requirements by the funding source e.g., federal or state agencies are physically included in the contract documents or by reference and there is a discrepancy, the funding source requirements shall govern unless specified otherwise in the Special Provisions.

- 2) ***City Supplement*** – The City Supplement shall be used in conjunction with the Standard Specifications for Public Works Construction (“The GREENBOOK”), 2009 Edition. The specifications contained in City Supplement take precedence over the specifications contained in The GREENBOOK, 2009 Edition.

Certain parts of the City Supplement have been highlighted in yellow for the convenience of the users only and shall not affect the interpretation of the Contract.

To obtain The GREENBOOK contact the publisher at: <http://www.bnibooks.com>

The WHITEBOOK is available only in electronic format under Engineering Documents and References at: <http://www.sandiego.gov/engineering-cip/>.

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REQUIRED DOCUMENTS SCHEDULE

This table is intended to serve as a convenient tool for listing forms and documents required at different times. It is neither exhaustive nor must be considered a Contract Document by itself. Therefore, the users must review the entire Contract Documents and become familiar with the required documentation and the submittal schedule associated with each document.

Bidder's attention is directed to the City's Municipal Code §22.0807(e),(3)-(5) for important information regarding required documentation

The specified EOC forms are all available for download from the EOC Program's web site at:

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

ITEM	WHEN	BY	WHAT
1.	BID DUE DATE/TIME	ALL BIDDERS	Proposal (Bid)
2.	BID DUE DATE/TIME	ALL BIDDERS	Bid Bond
3.	BID DUE 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 DUE DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
5.	BID DUE DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
6.	BID DUE DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
7.	BID DUE DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
8.	BID DUE DATE/TIME	ALL BIDDERS	Form AA45 – Subcontractors Additive/Deductive Alternate List
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTS	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTS	ALL BIDDERS	SLBE-ELBE Good Faith Documentations
11.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTS	ALL BIDDERS	Form AA60 – List of Work Made Available
12.	WITHIN 10 DAYS OF BID OPENING	3 APPARENT LOW BIDDERS	Lithocrete Form
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principle individual owners of the Apparent Low Bidder - In the event the firm is employee owned or publicly held, then the fact should be stated and the names of the firm's principals and officers shall be provided.
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture, the following information must be submitted: <ul style="list-style-type: none"> o Joint Venture Agreement o Joint Venture License

REQUIRED DOCUMENTS SCHEDULE

ITEM	WHEN	BY	WHAT
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
17.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms – Performance Bonds and Labor and Materialmen’s Bond
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
20.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
21.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance
22.	BY 5th OF EACH MONTH	CONTRACTOR	Form CC20 - Monthly Employment Report
23.	BY 5th OF EACH MONTH	CONTRACTOR	Form CC25 - Monthly Invoicing Report
24.	PRIOR TO ACCEPTANCE	CONTRACTOR	Form CC10 - Contract Change Order (CCO)
25.	PRIOR TO ACCEPTANCE	CONTRACTOR	Form CC15 - Final Summary Report
26.	PRIOR TO ACCEPTANCE	CONTRACTOR	Affidavit of Disposal

SPECIAL NOTICE
SMALL LOCAL BUSINESS ENTERPRISES (SLBE)
AND
EMERGING LOCAL BUSINESS ENTERPRISES (ELBE)
PROGRAM

1. **INTRODUCTION.** This contract is subject to the requirements of the SLBE Program as specified in the SLBE-ELBE section of the City’s EOCP Requirements included in The WHITEBOOK.
 - 1.1. The Bidders are required to review The WHITEBOOK and become familiar with the detailed specifications including the required documentation and the submittal schedule as related to SLBE-ELBE program.
2. **AMENDMENTS TO THE CITY’S GENERAL EOCP REQUIREMENTS.**
 - III. **Equal Employment Opportunity Outreach Program (A).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - A. Competitive Bids. If a contract is competitively solicited, the Apparent Low Bidder shall submit a *Work Force Report (Form BB05)* or an Equal Employment Opportunity (EEO) Plan, 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. **AMENDMENTS TO THE CITY’S EOCP SLBE-ELBE REQUIREMENTS.**
 - VIII. **Subcontracting Efforts Review and Evaluation (2b)).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - b) “Make information of forthcoming opportunities available to SLBE-ELBE firms and arrange time for contracts and establish delivery schedules, where requirements permit, in a way that encourages and facilitates participation by SLBE-ELBE firms in the competitive process. This includes posting solicitations for bids or proposals for a minimum of 10 Working Days before the Bid or Proposal due date.”
 - VIII. **Subcontracting Efforts Review and Evaluation (3) and (4).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
 3. Good Faith Effort Documentation Requirements

If the stated SLBE-ELBE subcontractor participation percentages are not met, the Bidder shall submit, within 3 Working Days of the Bid opening, information necessary to establish adequate good faith efforts were taken to meet the contract subcontractor participation percentages. The required documentation includes the following:

 - A. **SLBE-ELBE WRITTEN SOLICITATION REQUIREMENTS**

Bidders must solicit SLBE-ELBE firms on the City’s approved SLBE-ELBE list. Solicitations for subcontract/vendor work must comply with the following requirements:

 1. The solicitation must be project specific, dated and include bid number and project name. ***Solicitations must be made to the SLBE-ELBE firms at least 10 business days prior to bid opening.***
 - 1.1. Broadcast solicitation is acceptable.
 2. Solicitation must state which items or portions of work the bidder is requesting subcontractor/vendor pricing.

- 2.1 It is the bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE participation percentage was made available to SLBE-ELBE firms. The bidder should make as many items of work available as possible to meet the SLBE-ELBE participation percentage, and at a minimum an amount of work equal to the SLBE-ELBE participation percentage. If necessary to reach the SLBE-ELBE participation percentage, the work should include those items normally performed by the bidder with its own forces, supplies and even items performed with a dollar value below 1/2 of 1% of the total bid. Bidders shall utilize Form AA60 to demonstrate compliance with this requirement and submit the completed form with Good Faith Effort documentation.
3. Solicitation must state that plans and specs are available at no cost to interested SLBE-ELBE firms and how to obtain them.
4. Solicitations must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining necessary equipment, supplies, or materials.
5. Solicitations must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining bonding, lines of credit or insurance.
6. Bidder must solicit ALL City of San Diego Certified SLBE-ELBE firms who have the NAICS code for the subcontractor/vendor work sought by the general contractor.
 - 6.1. Bidders are not required to contact SLBE-ELBE firms that are noted as "General Contractor Only – Does not provide services as a subcontractor" in the PRISM compliance database or on the listing provided on the City website.
7. Bidders must provide copies of **ALL** solicitations with one of the following forms of verification **that the solicitations were sent**: a) If mailed: provide copies of the metered envelopes or certified mail receipts b) If faxed: provide copies of the fax transmittal confirmation sheet(s) c) If emailed: provide copies of the email delivery confirmation sheet(s). No credit shall be given for error messages, busy, cancelled, undeliverable, etc.
 - 7.1. When utilizing broadcast method bidder must clearly identify SLBE-ELBE firm on verification documentation submitted with GFE.

B. SLBE-ELBE WRITTEN SOLICITATION FOLLOW UP REQUIREMENTS

Bidders must follow-up with all SLBE – ELBE firms that were notified of the subcontracting/vendor opportunities to determine their level of interest and commitment to bid the project. When following up with the SLBE – ELBE firms, the bidder must do the following:

1. Follow up communications must start no less than 5 business days prior to bid opening.
2. Bidders must make at least three follow-up telephone calls to each SLBE – ELBE firm.
 - 2.1. Bidders are not required to make and/or may stop making follow-up telephone calls once the SLBE-ELBE firm has provided written verification accepting or declining to bid the project. Written verification from SLBE-ELBE firm must be project specific.

- 2.2. Bidders must provide copy of written verification received from SLBE-ELBE firms with Good Faith Effort documentation.
- 2.3. Submit a telephone log, as proof of telephone calls, with the following requirements: project name, name of person making the phone call, name of firm contacted, contact person's name, date of call, time of call, and details of conversation.

C. SUBCONTRACT AWARD SUMMARY

Bidders must act in good faith with interested SLBE-ELBE firms and may only reject bids for legitimate business reasons. The bidder must submit the following documentation:

1. A **DETAILED** summary sheet which includes bid item number, scope of work, subcontractor/vendor name, bid amount, certification type, subcontractor/vendor selection and reason for selection / non-selection of all the subcontractors/vendors that responded.
2. Copies of all subcontract/vendor bids received including bids for areas of work that were not included in the outreach and bids from both certified and non-certified subcontractors/vendors. If the Bidder decides to Self-Perform a scope of work, the Bidder **MUST** submit a detailed bid to show that the Bidder's price is competitive to the price of the subcontractors/vendors that responded to outreach efforts. All verbal bids **MUST** be substantiated by corresponding written bid from subcontractors/vendors.

D. OUTREACH ASSISTANCE REQUIREMENTS

Written notice of subcontractor/vendor opportunities must be forwarded to local organizations or groups to assist with outreach efforts. When contacting local organizations or groups, the Bidder **must do** the following:

1. Contact a minimum of 5 local organizations or groups to provide assistance in contacting, recruiting and using SLBE-ELBE firms by written notice. For a listing of organizations or groups offering assistance, please visit the City of San Diego Equal Opportunity Contracting home page at <http://www.sandiego.gov/eoc/>
2. Written notice must indicate the date of the notice and name of the local organization or group. **Written notices must be forwarded to the organizations or groups at least 10 business days prior to bid opening.**
3. Written notice must state which items or portions of work the bidder is requesting subcontractor/vendor pricing.
 - 3.1. It is the bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE participation percentage was made available to SLBE-ELBE firms. The bidder should make as many items of work available as possible to meet the SLBE-ELBE participation percentage, and at a minimum an amount of work equal to the SLBE-ELBE participation percentage. If necessary to reach the SLBE-ELBE participation percentage, the work should include those items normally performed by the bidder with its own forces, supplies and even items with a dollar value below 1/2 of 1% of the total bid. Bidders shall utilize Form AA60 to demonstrate compliance with this requirement and submit the completed form with Good Faith Effort documentation.

4. Written notice must state that plans and specs are available at no cost to interested SLBE-ELBE firms and how to obtain them.
5. Written notice must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining necessary equipment, supplies, or materials.
6. Written notice must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining bonding, lines of credit or insurance.
7. Bidders must provide copies of **ALL** notices with one of the following forms of verification that the notices were sent: a) If mailed: provide copies of the metered envelopes or certified mail receipts b) If faxed: provide copies of the fax transmittal confirmation sheet(s) c) If emailed: provide copies of the email delivery confirmation sheet(s). No credit shall be given for error messages, busy, cancelled, undeliverable, etc.

XI. Suppliers. Last paragraph, DELETE in its entirety and SUBSTITUTE with the following:

For the purpose of achieving the mandatory subcontractor participation percentage, the City will not account for the Field Orders, Additive or Deductive, and Allowance Bid Items (when shown by the City as Allowance – Type II in the Bid and Proposal forms) in the calculation. Allowance – Type I Bid Items are part of the Base Bid integral to the SOW.

4. SUBCONTRACTING PARTICIPATION PERCENTAGES. The Bidders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all certified Subcontractors including SLBEs, ELBEs, DBEs, MBEs, WBEs, DVBEs and OBEs.

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	12.8%
2. ELBE participation	15.3%
3. Total mandatory participation	28.1%

4.2. For the purpose of achieving the mandatory subcontractor participation percentage, the City will not account for the Field Orders, Additive or Deductive, and Allowance Bid Items (when shown by the City as Allowance – Type II in the Bid and Proposal forms) in the calculation. Allowance – Type I Bid Items are part of the Base Bid integral to the SOW.

5. PRE-BID CONFERENCE. A Pre-Bid Conference is scheduled for this contract as specified in the Invitation to Bids. The purpose of this meeting is to inform Bidders of the submittal requirements and provisions relative to the SLBE Program. Bidders are strongly encouraged to attend the Pre-Bid Conference to better understand the Good Faith Effort requirements of this contract.

6. **MANDATORY CONDITIONS.** Bid will be declared **non-responsive** if the Bidder fails the following mandatory conditions.
 - 6.1. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
 - 6.2. 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.
7. **BID DISCOUNT.** This contract is subject to the Bid Discount program as described in The WHITEBOOK, SLBE-ELBE Program Requirements, Section IV(2).
8. **RESOURCES.** The current list of certified SLBE-ELBE firms can be found on the EOC Department website at <http://www.sandiego.gov/eoc/>

CITY OF SAN DIEGO, CALIFORNIA

INVITATION TO 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 **CITY HEIGHTS SQUARE MINI PARK** (Project).

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

The Work consist of: Construction of a 5,348 SF mini park; benches with backs, game tables, picnic tables, overheard trellis, light poles, bike rack, landscape areas, 8' perimeter fence, one 16' gate, 2 8' gates, columns with precast and galvanize steel arch 20' long single beam. The ROW improvements consist of public sidewalk, tree grates, trees pedestrian ramp, accessible parking space, streetscape tree planting area, street light.

The Work shall be performed in accordance with:

- Bid No. **K-13-5456-DBB-3-A** and Plans numbered **36416-1-D through 36416-21-D**, inclusive.

3. **ENGINEER'S ESTIMATE:** The Engineer's estimate of the most probable price for this contract is **\$523,000.00**.

4. **LOCATION OF WORK:** The location of Work is Citywide unless specified otherwise as follows:

4601 43rd Street, San Diego, CA 92105

5. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **210 Working Days**; of which 144 Working Days are for Construction and 66 Working days (90) consecutive calendar days) for Landscape Maintenance.

6. **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.

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

- **CLASS A**

7. **PRE-BID CONFERENCE:** There will be a Pre-Bid Conference to discuss the scope of the project, bidding requirements and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracting Group Conference Room at 1200 Third Avenue, Suite 200, San Diego, CA 92101 **at 10:00 AM, on OCTOBER 10, 2012.**

All prospective Bidders are encouraged to attend.

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) 236-6000 at least 5 Working Days prior to the Pre-Bid Conference to ensure availability.

- 8. CITY CONTACT INFORMATION:** See the cover of the Contract Documents.
- 9. REFERENCE STANDARDS:** Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

1. STANDARD SPECIFICATIONS

Document No.	Filed	Description
PITS0504091	05-04-09	Standard Specifications for Public Works Construction (The GREENBOOK), 2009 Edition
PITS090110-1	09-01-10	City of San Diego Standard Specifications for Public Works Construction (The WHITEBOOK), 2010 Update *
AEC1231064	12-31-06	California Department of Transportation, Manual of Uniform Traffic Control Devices (MUTCD 2006)
769023	09-11-84	Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause

NOTE: The City of San Diego Supplement, 2010 Update now consolidates various City Public Works Construction Standard Specifications which in the past were included in the Supplementary Special Provisions. The Bidders' attention is directed to this edition of the City Supplement for a close review to ensure no important information is missed for the preparation of the Bids.

2. STANDARD DRAWINGS

Document No.	Filed	Description
AEC1230163	12-31-06	City of San Diego Standard Drawings*
N/A	Varies	City Standard Drawings - Updates Approved For Use (when specified)*
AEC0925061	09-25-06	Caltrans 2006 U.S. Customary Unit Standard Plans

NOTE: **Available online under Engineering Documents and References at: <http://www.sandiego.gov/engineering-cip>.

- 10. WAGE RATES:** Prevailing wages are not applicable to this project unless specified otherwise on the cover page of these specifications and when included in these specifications. See Funding Agency Provisions that follow this Invitation to Bid for more information.
- 11. SAN DIEGO REDEVELOPMENT AGENCY FUNDED PROJECTS.** This contract is funded with San Diego Redevelopment Agency funds and may become subject to termination or suspension for loss of project funds. See 6-5.9, "City's Right to Terminate or Suspend for Loss of Project Funds" for more details.

12. INSURANCE REQUIREMENTS: Upon receipt of the City's Notice of Intent to Award letter, the Contractor will be asked to submit all certificates of insurance and endorsements to the City.

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.

You must ensure all required insurance certificates and endorsements are submitted accurately and on time. Failure to provide the requisite insurance documents by the date stated in the City's Notice of Intent to Award will result in delay of contract award and may result in annulment of the contract award or other more severe sanctions as provided in the City's Municipal Code §22.0807(e),(3)-(5).

Tony Heinrichs, Director
Public Works Department

INSTRUCTIONS TO BIDDERS

- 1. PREQUALIFICATION OF CONTRACTORS:** The contractor(s) who intend to submit Bid or Proposal in response to this invitation to bid, or RFP's for GRC or As-Needed Design-Build Task Orders valued over \$50,000, must be pre-qualified for the total amount proposed, inclusive of all alternate bid items or the specified Task Order limits prior to the date of Bid 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 or a Task Order authorization. Complete information and prequalification questionnaires are available at:

<http://www.sandiego.gov/engineering-cip/services/consultcontract/prequal.shtml>

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 Department – Engineering & Capital Projects Prequalification Program, 1010 Second Avenue, Suite 1200, San Diego, CA 92101. For additional information or the answer to questions about the prequalification program, please contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.

- 2. CONTRACTOR REGISTRATION:** Prospective bidder(s) as well as existing contractors and suppliers are required to register with the City's EOCP. Refer to 2-17, "CONTRACTOR REGISTRATION" for details.
- 3. 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.
- 4. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Invitation to 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 Invitation to Bid shall be the sole responsibility of each bidder. The Invitation to Bid creates or imposes no obligation upon the City to enter a contract.
- 5. 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 unless specified otherwise such as as-needed contracts e.g., GRC in the Contract Documents.
- 6. SUBMITTAL OF "OR EQUAL" ITEMS:** See 4-1.6, "Trade Names or Equals."
- 7. AWARD PROCESS:** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award, including the submittal of acceptable insurance and surety bonds pursuant to San Diego Municipal Code § 22.3007. If the responsible Bid does not exceed the City's engineering estimate, the City will, in most cases, prepare contract documents for execution within 3 weeks of the date of the Bid opening and award the Contract within 5 Working Days of receipt of properly executed Contract, bond, and insurance documents.

This contract is deemed to be awarded, and effective, only upon the signing of the Contract by the Mayor or designee of the City.

- 8. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" which requires the Contractor to perform not less than the amount therein stipulated with its own forces. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.
- 9. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/engineering-cip/services/consultcontract/advertising.shtml>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracting Group at the address listed below.
- 10. QUESTIONS:** The Director (or designee), of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. All questions related to this procurement action shall be addressed to the Public Works Contracting Group, Attention Contract Specialist, 1200 Third Avenue, Suite 200, San Diego, California, 92101, Telephone No. (619) 236-6000.

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

Interpretations or clarifications considered necessary by the City in response to such questions will be issued by Addenda which will be uploaded to the City's online bidding service.

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.

- 11. ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than 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.
- 12. SAN DIEGO BUSINESS TAX CERTIFICATE:** All Contractors, including 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, before the Contract can be executed.
- 13. 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.

The entire specifications for the bid package do not need to be submitted with the bid. Bidder shall complete and submit, only, all pages in the "Bidding Document" Section (see Volume 2) as their Bid per the schedule given under "Required Documents" (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 City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.

Bids and certain other specified forms and 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.

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

- 14. BIDDERS' GUARANTEE OF GOOD FAITH (BID SECURITY):** With the exception of the contracts valued \$5,000 or less, GRC 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.

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.

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

- 15. AWARD OF CONTRACT OR REJECTION OF BIDS:** This contract may be awarded to the lowest responsible and reliable Bidder (for Design-Build contracts refer to the RFP for the selection and award information). Bidders shall complete the entire Bid schedule (e.g., schedule of prices). Incomplete price schedules will be rejected as being **non-responsive**.

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.

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.

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 P&C Department no later than 10 days after the City's announcement of the selected Bidder or no later than 10 days from the date that the City issues notice of designation of a Bidder as non-responsible in accordance with San Diego Municipal Code Chapter 2, § 22.3029, "Protests of Contract Award."

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.

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 Invitation to Bids.

The City reserves the right to evaluate all Bids and determine the lowest Bidder (or winner for Design-Build contracts) on the basis of any proposed alternates, additive items or options, at its discretion.

- 16. BID RESULTS:** The Bid opening by the City shall constitute the public announcement of the Apparent Low Bidder (or Apparent Winner in case of Design-Build contracts). In the event that the Apparent Low Bidder (or Apparent Winner in case of Design-Build contracts) is subsequently deemed non-responsive or non-responsible, a public announcement will be posted in the City's web page, with the name of the newly designated Apparent Low Bidder (or Apparent Winner in case of Design-Build contracts).

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. Due to time constraints, Bid results cannot be given out over the telephone.

- 17. THE CONTRACT:** 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 10 Working Days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.

If the Bidder takes longer than 10 Working 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.

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.

For contracts that are not Design-Build, 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 10 Working 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.

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.

18. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK: The Bidder shall examine carefully the Project Site, the Plans and Specifications, the GRC Unit Price Books if applicable, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents) therefore. The submission of a Bid or GRC Task Order Proposal 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.

19. DRUG-FREE WORKPLACE:

a) General:

City projects are subject to City of San Diego Resolution No. R-277952 adopted on May 20, 1991. Bidders shall become aware of the provisions of Council Policy 100-17 which was established by Resolution No. R-277952. The policy applies equally to the Contractor and Subcontractors. The elements of the policy are outlined below.

b) Definitions:

"Drug-free workplace" means a site for the performance of work done in connection with a contract let by City of San Diego for the construction, maintenance, or repair of any facility or public work by an entity at which employees of the entity are prohibited from engaging in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance in accordance with the requirements of this section.

"Employee" means the employee of a contractor directly engaged in the performance of work pursuant to a contract as described in Section 3, "City Contractor Requirements."

"Controlled substance" means a controlled substance in schedules I through V of Section 202 of the Controlled Substances Act (21 U.S.C. Sec. 812).

"Contractor" means the department, division, or other unit of a person or organization responsible to the contractor for the performance of a portion of the work under the contract.

c) City Contractor Requirements:

Every person or organization awarded a contract or grant by the City of San Diego for the provision of services shall certify to the City that it will provide a drug-free workplace by doing all following:

a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person's organization's workplace and specifying the actions that will be taken against employees for violations of the prohibition.

b. Establishing a drug-free awareness program to inform employees about all of the following:

i. The dangers of drug abuse in the workplace.

- ii. The person's or organization's policy of maintaining a drug-free workplace.
 - iii. Any available drug counseling, rehabilitation, and employee assistance programs.
 - iv. The penalties that may be imposed upon employees for drug abuse violations.
- c. Posting the statement required by subdivision (1) in a prominent place at contractor's main office. For projects large enough to necessitate a construction trailer at the job site, the required signage would also be posted at the Site.

The Contractor shall include in each subcontract agreement language which indicates the Subcontractor's agreement to abide by the provisions of subdivisions a) through c) above. The Contractors and Subcontractors shall be individually responsible for their own drug-free workplace programs.

Note: The requirements of a drug-free awareness program can be satisfied by periodic tailgate sessions covering the various aspects of drug-abuse education. Although an in-house employee assistance program is not required, contractors should be able to provide a listing of drug rehabilitation and counseling programs available in the community at large.

Questions about the City's Drug-free Workplace Policy shall be referred to the Contract Specialist, Public Works Contracting Group.

20. AMERICANS WITH DISABILITIES ACT:

a) General: City projects are subject to City of San Diego Resolution No. R-282153 adopted on June 14, 1993. The Bidders shall become aware of the provisions of Council Policy 100-04 which was established by Resolution No. R-282153. The policy applies equally to the Contractor and all Subcontractors. The elements of the policy are outlined below.

b) Definitions:

"Qualified individual with a disability" means an individual with a disability who satisfies the requisite skill, experience, education and other job-related requirements of the employment position such individual holds or desires, and who, with or without reasonable accommodation, can perform the essential functions of such position.

"Employee" means the employee of the Contractor directly engaged in the performance of Work.

c) The City Requirements: Every person or organization entering into a contractual agreement with or receiving a grant from the City of San Diego shall certify to the City of San Diego that it will comply with the ADA by adhering to all of the provisions of the ADA listed below.

- i. The Contractor shall not discriminate against qualified persons with disabilities in any aspects of employment, including recruitment, hiring, promotions, conditions and privileges of employment, training, compensation, benefits, discipline, layoffs, and termination of employment.

- ii. No qualified individual with a disability may be excluded on the basis of disability, from participation in, or be denied the benefits of services, programs, or activities by the Contractor or Subcontractors providing services for the City.
- iii. The Contractor shall post a statement addressing the requirements of the ADA in a prominent place at the worksite. The Contractor shall include in each subcontract agreement, language which indicates the Subcontractor's agreement to abide by the provisions of subdivisions (a) through (c) inclusive of Section 3. The Contractor and Subcontractors shall be individually responsible for their own ADA employment programs. Questions about the City's ADA Policy should be referred to the Contract Administrator.

21. CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE: This contract is subject to City of San Diego Municipal Code §22.3224 as amended 11/24/08 by ordinance O-19808. Bidders shall become aware that the requirements apply to Contractors and Subcontractors for contracts greater than \$50,000 in value.

Upon award, amendment, renewal, or extension of this contract, the Contractors shall complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section.

The Contractors shall ensure that their Subcontractors whose subcontracts are greater than \$50,000 in value complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section. Subcontractors may access the Pledge of Compliance at:

http://www.sandiego.gov/purchasing/pdf/contractor_standards_questionnaire.pdf.

The Contractors shall include in each subcontract agreement, language which requires Subcontractors to abide by the provisions of City of San Diego Municipal Code §22.3224. A sample provision is as follows:

“**Compliance with San Diego Municipal Code §22.3224:** Subcontractor acknowledges that it is familiar with the requirements of San Diego Municipal Code §22.3224 (“Contractor Standards”), and agrees to comply with requirements of that section. The Subcontractor further agrees to complete the Pledge of Compliance, incorporated herein by reference.”

22. NOTICE OF LABOR COMPLIANCE PROGRAM APPROVAL: The City of San Diego received initial approval as a Labor Compliance Program on August 11, 2003. The Labor Compliance Program Manual is available at:

<http://www.sandiego.gov/eoc/laborcompliance/#manual>.

The limited exemption from prevailing wages pursuant to Labor Code §1771.5(a) does not apply to contracts under jurisdiction of the Labor Compliance Program. Inquiries, questions, or assistance about the Labor Compliance Program should be directed to: Equal Opportunity Contracting Program, 1200 Third Ave., Suite 200 MS56P, San Diego, CA 92101, Tel. 619-236-6000.

23. PAYROLL RECORDS: The Contractor's attention is directed to the City of San Diego Labor Compliance Program, Section IV, pages 4-7, and the State of California Labor Code §§ 1771.5(b) and 1776 (Stats. 1978, Ch. 1249). These require, in part, that the Contractor and Subcontractors maintain and furnish to the City, at a designated time, a certified copy of each weekly payroll containing a statement of compliance signed under penalty of perjury.

The Contractor and Subcontractors shall submit weekly certified payrolls online via Prism® i.e., the City's web-based labor compliance program. Instructions on how to use the system will be provided to the Contractor after the award.

The Contractor shall be responsible for the compliance with these provisions by Subcontractors. The City shall withhold contract payments when payroll records are delinquent or inadequate, or when it is established after investigation that underpayment has occurred.

24. APPRENTICES ON PUBLIC WORKS: The Contractor shall abide by the requirements of §§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.

25. EQUAL BENEFITS: This contract is subject to the City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of the San Diego Municipal Code (SDMC).

In accordance with the EBO, Bidders shall certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the Contract (SDMC §22.4304(f)). Failure to maintain equal benefits is a material breach of the Contract (SDMC §22.4304(e)). The Contractor shall notify employees of their equal benefits policy at the time of hire and during open enrollment periods and shall post a copy of the following statement in an area frequented by employees:

“During the performance of a contract with the City of San Diego, this employer will provide equal benefits to its employees with spouses and its employees with domestic partners.”

The Contractor shall give the City access to documents and records sufficient for the City to verify the contractors are providing equal benefits and otherwise complying with EBO requirements.

Full text of the EBO and the Rules Implementing the Equal Benefits Ordinance are posted on the City's website at www.sandiego.gov/purchasing/ or can be requested from the Equal Benefits Program at (619) 533-3948.

26. LIMITED COMPETITION: Contracts designated with a Bid number beginning with “L” may only be bid by the Contractors on the approved SLBE-ELBE Construction Contractors List. For information regarding the SLBE-ELBE Construction Program and registration go to the City's web site: <http://www.sandiego.gov>.

27. PRE-AWARD ACTIVITIES:

Pre-award Submittals - The Apparent Low Bidder (or winner in case of Design-Build contracts) 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**.

If the Bid is rejected as non-responsive, the Apparent Low Bidder (or winner in case of Design-Build contracts) shall forfeit the Bid Security required under Invitation to Bids, of this bid package. The decision that the Apparent Low Bidder (or winner in case of Design-Build contracts) is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

CITY OF SAN DIEGO
FUNDING AGENCY PROVISIONS
FOR
CONSTRUCTION CONTRACT REQUIREMENTS

THE FOLLOWING REQUIREMENTS APPLY TO STATE, FEDERAL, OR BOTH FUNDED PROJECTS. IN THE EVENT THAT THESE REQUIREMENTS CONFLICT WITH THE CITY'S GENERAL EOC REQUIREMENTS, THE STATE AND FEDERAL REQUIREMENTS WILL CONTROL.

1) STATE REQUIREMENTS FOR CONTRACTS SUBJECT TO STATE PREVAILING WAGE REQUIREMENTS:

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.

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.

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.

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.

CONTRACT FORMS AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and PAL GENERAL ENGINEERING, INC., herein called "Contractor" for construction of **CITY HEIGHTS SQUARE MINI PARK**; Bid No. **K-13-5456-DBB-3-A**; in the amount of FOUR HUNDRED THIRTY TWO THOUSAND SEVEN HUNDRED TWENTY FOUR DOLLARS AND 00/100 (\$432,724.00), which is comprised of the Base Bid Plus Additive Alternates A, B, and C.

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) That certain documents entitled: **CITY HEIGHTS SQUARE MINI PARK**, on file in the Public Works Contracting Group as Document No. **S-01070**, as well as all matters referenced therein.
2. 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 **CITY HEIGHTS SQUARE MINI PARK**, Bid Number **K-13-5456-DBB-3-A**, 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 Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.

**CONTRACT FORMS (continued)
AGREEMENT**

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

THE CITY OF SAN DIEGO

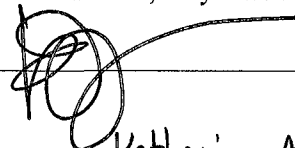
By  _____

Print Name: Albert P. Rechany
Program Manager

Date: JAN. 7, 2013

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By  _____

Print Name: Katherine A. Malcolm
Deputy City Attorney

Date: 1/8/13

CONTRACTOR

By  _____

Print Name: Mark Jahshan

Title: President

Date: 11/27/12

City of San Diego License No.: B2008032175

State Contractor's License No.: 916931

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

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

PAL General Engineering, Inc. _____, a corporation, as principal,
and The Hanover 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
Four Hundred Thirty Two Thousand Seven Hundred Twenty
Four and 00/100 Dollars (\$432,724.00) for the faithful performance of the annexed
contract, and in the sum of Four Hundred Thirty Two Thousand Seven
Hundred Twenty Four and 00/100 Dollars (\$432,724.00)
and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **CITY HEIGHTS SQUARE
MINI PARK**, Bid Number: **K-13-5456-DBB-3-A**, San Diego, California then the obligation herein
with respect to a faithful performance shall be void; otherwise it shall remain in full force.

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

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

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

CONTRACT FORMS (continued)
PERFORMANCE BOND AND LABOR AND MATERIAL MEN'S BOND

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

Dated November 27, 2012

Approved as to Form and Legality

PAL General Engineering, Inc.

Principal

By 

Marla Jahshan, President

Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By  1/8/13

Deputy City Attorney


The Hanover Insurance Company

Surety

By 

Attorney-in-fact
Matthew C. Gaynor

Approved:


Mayor or designee

2 MacArthur Place, 2nd Floor

Local Address of Surety

Santa Ana, CA 92707

Local Address (City, State) of Surety

(714) 415-3808

Local Telephone No. of Surety

Premium \$ 4,933.

Bond No. 1015496

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

POWERS OF ATTORNEY
CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, do hereby constitute and appoint

Matthew C. Gaynor, Kim D. Vasquez and/or Daniel Frazee

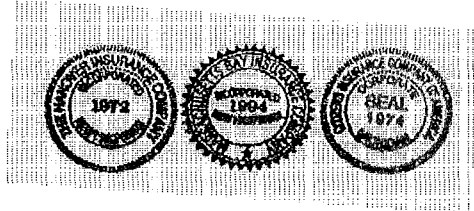
of **Santee, CA** and each is a true and lawful Attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line be filled in, only within the area therein designated any and all bonds, recognizances, undertakings, contracts of indemnity or other writings obligatory in the nature thereof, as follows:

Any such obligations in the United States, not to exceed Ten Million and No/100 (\$10,000,000) in any single instance

and said companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority of the following Resolution passed by the Board of Directors of said Companies which resolutions are still in effect:

"RESOLVED, That the President or any Vice President, in conjunction with any Vice President, be and they are hereby authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by two Vice Presidents, this **21st** day of **April 2011**.



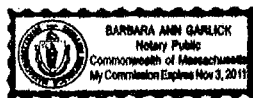
THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Robert Thomas
Robert Thomas, Vice President

Mari Fitzgerald
Mari Fitzgerald, Vice President

THE COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER) ss.

On this **21st** day of **April 2011**, before me came the above named Vice Presidents of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.



Barbara A. Garlick
Barbara A. Garlick, Notary Public
My Commission Expires November 3, 2011

I, the undersigned Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America.

"RESOLVED, That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or any Vice President in conjunction with any Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this **27th** day of **November, 2012**.

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Gloria Margosian
Gloria Margosian, Vice President

ACKNOWLEDGMENT

State of California
County of San Diego)

On November 27, 2012 before me, Kathy Scheuerman, Notary Public
(insert name and title of the officer)

personally appeared Matthew C. Gaynor,
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 Kathy Scheuerman (Seal)

ACKNOWLEDGMENT

State of California
County of San Diego)

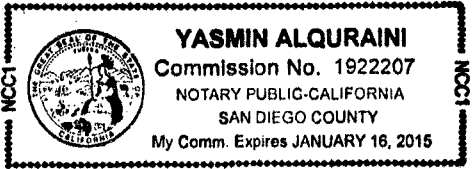
On November 28, 2012 before me, Yasmin AlQuraini, Notary Public
(insert name and title of the officer)

personally appeared Mamta Sahokar
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/hers/their authorized capacity(ies), and that by his/hers/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 *[Handwritten Signature]* (Seal)



CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

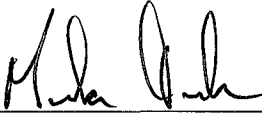
PROJECT TITLE: CITY HEIGHTS SQUARE MINI PARK

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 INSTRUCTION TO BIDDERS, "Drug-Free Workplace", of the project specifications, and that;

PAE General Engineering, Inc.

(Name under which business is conducted)

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

Signed 

Printed Name Marla Jahshan

Title President

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: CITY HEIGHTS SQUARE MINI PARK

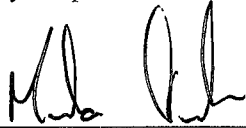
I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the INSTRUCTION TO BIDDERS, "American With Disabilities Act", of the project specifications, and that;

PAE General Engineering 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



Printed Name

Marla Jahshan

Title

President

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

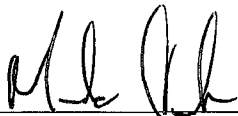
PROJECT TITLE: CITY HEIGHTS SQUARE MINI PARK

I declare under penalty of perjury that I am authorized to make this certification on behalf of PAL Ground Engineering 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 INSTRUCTION TO BIDDERS ("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 28th Day of November, 2012.

Signed



Printed Name

Marla Johnson

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:

CITY HEIGHTS SQUARE MINI PARK

(Project)

as particularly described in said contract and identified as Bid No. **K-13-5456-DBB-3-A**; SAP No. (WBS/IO/CC) **S-01070**; 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 _____, 2_____.

Contractor
by

ATTEST:

State of _____
County of _____

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

Notary Public in and for said County and State

SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

THESE SUPPLEMENTARY SPECIAL PROVISIONS CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE GREENBOOK) CURRENTLY ADOPTED BY THE CITY, INCLUDING ITS CURRENT SUPPLEMENT AMENDMENTS (CITY SUPPLEMENTS INCLUDED IN THE WHITEBOOK), EXCEPT FOR THE FOLLOWING:

STYLE OF SPECIFICATIONS

The City is gradually standardizing the style and language of the standard specifications for the public works construction. The new style and language follows the Federal guidelines for "Plain Language" to the extent possible.

The use of this new style does not change the meaning of a specification not yet using this style. Where used in the Contract Documents, statement or command type phrases (i.e., active voice and imperative mood) refer to and are directed at the Bidder or Contractor as applicable. The specifications are written to the Bidder before award and the Contractor after. Before award, interpret sentences written in the imperative mood as starting with "The Bidder must" and interpret "you" as "the Bidder" and "your" as "the Bidder's." After award, interpret sentences written in the imperative mood as starting with "The Contractor must" and interpret "you" as "the Contractor" and "your" as "the Contractor's." Similarly, interpret "we" and "us" as "the City" and "our" as "the City's".

PART 1 – GENERAL PROVISIONS

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

1-2 TERMS AND DEFINITIONS.

Agency – ADD the following:

Regulatory activities handled by the City of San Diego Developmental Services, Fire and Planning Departments, or any other City Department are not subject to the responsibilities of the City under this contract.

Certificate of Compliance – To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Certificate of Compliance – A written document signed and submitted by a supplier or manufacturer that certifies that the material or assembled material supplied to the Work site complies with the requirements of the Contract Documents.

Contract Documents – To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

The Agreement, Addendum, Invitation to Bid, Instructions to Bidders, special notice page, funding agency provisions, Bid and documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award when attached as an exhibit to the Contract, Bonds, permits from jurisdictional regulatory agencies, Supplementary Special Provisions (SSP), City's EOC Requirements, City Supplement, Plans, Standard Plans, Construction Documents, Reference Specifications listed in the Invitation to Bid or the RFP for Design-Build contracts, Request for Qualifications (RFQ), Statement of Qualifications (SOQ), Request for Proposals (RFP), modifications issued after the execution of the Contract e.g., Change Orders, Construction Manager At Risk's Guaranteed Maximum Price including written qualifications, assumptions and conditions thereto and Pre-construction Services Agreement.

Limited Notice To Proceed – A written notice given from the City to the Contractor that authorizes the Contractor to start a limited amount of work that is not Construction Work, such as finalizing subcontract agreements, ordering materials, mobilization, furnishing a field office, and any other preliminary work done prior to performing Construction Work.

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

The Normal Working Hours shall be 7:00 AM to 3:00 PM.

Notice of Completion (NOC) – ADD the following:

See California Civil Code section 3093.

Samples - Physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be evaluated.

SECTION 2 - SCOPE AND CONTROL OF WORK

2-1.2.2 Joint Venture Contractors. To the City Supplement, last paragraph, DELETE in its entirety and SUBSTITUTE with the following:

The Joint Venture shall designate an on-site representative and an alternate in writing. The on-site representative and the alternate shall have the full authority to bind all Joint Venture partners.

The Joint Venture shall provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receipt by the Bidder of Contract forms.

2-3.1.2 Subcontractor List. ADD the following:

For Extra Work, the Contractor shall submit Form CC10, “CONTRACT CHANGE ORDER (CCO)” with each CCO proposal. Form CC10 is available for download from the EOCP site at: <http://www.sandiego.gov/eoc/pdf/cc10.pdf>

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

The Contractor shall perform, with its own organization, Contract work amounting to at least **50 percent** 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 determining the Apparent Low Bidder as specified. The self performance percentage requirement will be waived for contracts when a “B” License is required or allowed.

2-3.3 Status of Subcontractors. ADD the following:

With every request for payment, the Contractor shall submit to the Engineer a breakdown showing monthly and cumulative amounts of the Work performed under Change Order by the Contractor and the Subcontractors. The reporting format shall be approved by the Engineer.

2-3.4 Subcontract Requirements. To the City Supplement, ADD the following paragraph:

The Contractor shall ensure that all of its Subcontractors are licensed at the time of the execution of their subcontract agreements. In the event a Subcontractor is not properly licensed, the Contractor shall cease payment to Subcontractor for all work performed when the Subcontractor was improperly licensed. Any payment made by the Contractor to a Subcontractor for work performed when the Subcontractor was unlicensed shall be returned to the City.

Where the Contract Documents require that a particular product be installed or applied by an applicator approved by the manufacturer, it is the Contractor's responsibility to ensure the Subcontractor or Supplier employed for such work is approved by the manufacturer.

2-5.2 Precedence of Contract Documents. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

2-5.2 Precedence of Contract Documents. If there is a conflict between any of the Contract Documents, the document highest in the order of precedence shall control. The order of precedence, from highest to lowest, shall be as follows:

- 1) Permits (i.e., issued by jurisdictional regulatory agencies)
- 2) Change Orders and Supplemental Agreements; whichever occurs last
- 3) Contract and Agreement
- 4) Addenda
- 5) Bid (e.g., price Proposal for Design-Build contracts)
- 6) Request for Proposal (RFP)
- 7) Invitation to Bid
- 8) Instruction to Bidders
- 9) Request for Qualifications (RFQ)
- 10) Special Provisions (i.e., City's EOCP Requirements, City Supplement, and Supplementary Special Provisions (SSP))
- 11) Plans
- 12) Construction Documents (for Design-Build contracts)
- 13) Standard Drawings
- 14) Reference Specifications (e.g., GREENBOOK)
- 15) Technical Proposal (for Design-Build contracts)
- 16) Statement of Qualifications (SOQ)

When additional requirements by the funding sources are physically or by reference incorporated in the Contract Documents, the funding source's requirements shall govern **unless** specified otherwise. Figured dimensions shall take precedence over scaled dimensions. Detailed drawings shall take precedence over general drawings.

2-5.3.1 General. DELETE in its entirety and SUBSTITUTE with the following:

When required by the Contract Documents or when requested by the Engineer, the Contractor shall provide the submittals as specified in 2-5.3.2, 2-5.3.3, and 2-5.3.4 to the Engineer. Materials shall neither be furnished nor fabricated, nor shall any work for which submittals are required be performed before the required submittals have been reviewed and accepted by the Engineer. The payment for the submittals shall be included in the various Bid items. Neither review nor acceptance of submittals by the Engineer shall relieve the Contractor from responsibility for errors, omissions, or deviations from the Contract Documents, unless such deviations were specifically called to the attention of the Engineer in the letter of transmittal. The Contractor shall be responsible for the correctness of the submittals.

The Contractor shall allow a minimum of 20 working days for review of submittals unless otherwise specified in the Special Provisions. Each submittal shall be accompanied by a letter of transmittal.

2-5.4.1 General. ADD the following:

Source Identification e.g., RFI numbers and Change Order numbers as required to identify the source of the change to the Contract Documents shall be noted.

2-5.4.2 Asset Specific Red-lines. To the City Supplement, item d), ADD the following:

- Dimensional changes to the drawings.
- Revisions to details shown on drawings.
- Depths of foundations below first floor.
- Locations and depths of underground utilities.
- Revisions to routing of piping and conduits.
- Revisions to electrical circuitry.
- Actual equipment locations.
- Duct size and routing.
- Locations of concealed internal utilities.
- Changes made by Change Order.
- Details not on original Plans.

ADD the following:

- h) Slurry Seal and Asphalt Overlay Red-Lines: The Contractor shall clearly record on the City provided forms in MS Excel format the actual dates and quantity of each Bid item applied to each street segment and comments regarding each segment. The Contractor shall record reasons if no work is performed.

2-5.5 As-built Drawings. ADD the following:

As-built Drawings shall be the responsibility of the Contractor.

2-6 WORK TO BE DONE. ADD the following:

In accordance with the provisions of California Law, the Contractor shall possess or require the Subcontractor(s) to possess valid appropriate license(s) for the Work being performed.

2-9.2 Survey Services. DELETE in its entirety and SUBSTITUTE the following:

The Contractor shall be responsible for all surveying services or as may be specified in these special provisions.

The payment for survey services shall be included in the various Bid items unless a Bid item for Survey Service has been provided.

2-10 AUTHORITY OF BOARD AND ENGINEER. ADD the following:

Regulating agencies of the City, such as Developmental Services, Fire and Planning Departments, enforce Legal Requirements and standards. These enforcement activities are not subject to the responsibilities of the Engineer under this Agreement.

2-11 INSPECTION. ADD the following:

The City may utilize field inspectors to assist the Engineer during construction in observing performance of the Contractor. The inspector is for the purpose of assisting the Engineer and shall not be confused with an inspector with a City regulatory agency or with a Special Inspector.

Code compliance testing (including all Geotechnical requirements) and inspections required by codes or ordinances, or by a plan approval authority, shall be the responsibility of and shall be paid by the Contractor, unless otherwise provided in the Contract Documents.

The Contractor's quality control testing and inspections shall be the sole responsibility of the Contractor and paid by the Contractor included in the Bid price.

2-16 TECHNICAL STUDIES AND DATA. To the City Supplement, ADD the following:

In preparation of the Contract Documents, the designer has relied upon the following studies, data, reports of explorations, and tests:

1. Water Quality Technical Report dated August 24, 2010 by Nasland Engineering
2. Hydrology Study dated August 24, 2010 by Nasland Engineering

The report(s) listed above is(are) available for review by contacting the City Project Manager or visiting:

<ftp://ftp.sannet.gov/OUT/ECP/2-16%20TECHNICAL%20STUDIES%20AND%20DATA/>

ADD: 2-17 CONTRACTOR REGISTRATION. The Contractor, Subcontractors, and Suppliers shall register with the City's EOCP via Prism® i.e., the City's web-based contract compliance portal at: <https://pro.prismcompliance.com/contractor/plugins/pages/contractormenu.aspx>.

The Contractor shall ensure that proposed Subcontractors and Suppliers have completed the registration prior to Notice of Intent to Award. If the Contractor fails to have its Subcontractors and Suppliers registered after the NTP has been issued, the City will withhold a minimum of 10% in addition to the Retention from all invoices submitted until the Contractor and all listed Subcontractors and Suppliers are properly registered in PRISM.

SECTION 3 – CHANGES IN WORK

3-3.2.2 Basis for Establishing Costs. To the City Supplement, item a) Labor, first and second paragraphs, DELETE in entirety and SUBSTITUTE with the following:

The City reserves the right to request financial records of salaries for an employee, wages, bonuses and deductions to substantiate the actual cost of labor certified by a California licensed Certified Public Accountant. The Contractor shall use the City provided form i.e., "PUBLIC WORKS PAYROLL REPORTING FORM" which is available at <http://www.sandiego.gov/eoc/pdf/payrollreport.pdf> to list the labor rates of its personnel and Subcontractors who work on this Project. An initial submittal shall be made prior to NTP.

The payment for payroll records shall be included in the various Bid item unless a separate Bid item has been provided.

SECTION 4 - CONTROL OF MATERIALS

4-1.3.1 General. First paragraph, ADD the following:

Other standard items or materials typically accepted by Certificate of Compliance shall not require inspection at the source unless specified in the Special Provisions. For a list of these items or materials, the Contractor may refer to the Contract Documents.

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

The Contractor shall employ and pay for the services of qualified inspection entity to perform specialty inspection services as specified here:

**Masonry
Welding
Concrete**

4-1.3.5 Special Inspections. To the City Supplement, ADD the following:

Special Inspection and testing by the Special Inspectors shall meet the minimum requirements of the prevailing Codes and by the City's Development Services Department (DSD) and reference in <http://www.sandiego.gov/development-services/industry/special.shtml>

4-1.5 Certificates of Compliance. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

4-1.5 Certificates of Compliance. DELETE in its entirety and SUBSTITUTE with the following:

Certificates of Compliance shall be furnished to the Engineer prior to the use of any material or assembled material for which these Specifications so require or if so required by the Engineer.

The Engineer may waive the materials testing requirements of the Specifications and accept a Certificate of Compliance. Manufacturing test data may be required by the Engineer to be included with the submittal.

Materials used on the basis of a Certificate of Compliance may be sampled and tested at any time. The submission of a Certificate of Compliance shall not relieve the Contractor of responsibility for incorporating material in the Work which conforms to the requirements of the Contract Documents, and any material not conforming to the requirements will be subject to rejection whether in place or not.

When professional certification of performance criteria of materials, systems or equipment is required by the Contract Documents, the City shall be entitled to rely upon the accuracy and completeness of such calculations and certifications.

4-1.6 Trade Names or Equals. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Whenever materials or equipment are indicated in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the naming of the item is intended to establish the type, function, and quality required. Unless stated otherwise, materials or equipment of other Suppliers may be accepted if sufficient information is submitted to the Engineer for review to determine whether the material or equipment proposed is equivalent or equal to that named.

- a) The Contractor shall submit its list of proposed substitutions for "an equal" ("or equal") item(s) **no less than 15 Working Days prior to Bid due date** and on a City form when provided by the City.
 - i. The City will respond to the Contractor's substitution proposal by at least 3 Working Days prior to the Bid due date. If the City fails to respond to the Contractor's substitution proposal within the specified time period, the substitution proposal will be deemed denied.
 - ii. The Contractor may bring forward a substitution proposal after Award that was denied based on the City's failure to respond by submitting a "Cost Reduction Proposal" in accordance with 3-1.3.
- b) The request for substitution shall include the following information:
 - i. Whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents to adopt the design to the proposed substitute.
 - ii. Whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty.

- iii. All variations of the proposed substitute from the items originally specified will be identified.
 - iv. Available maintenance, repair, and replacement service requirements. The manufacturer shall have a local service agency within 50 miles of the site which maintains properly trained personnel and adequate spare parts and is able to respond and complete repairs within 24 hours.
 - v. Certification that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, and be similar and of equal substance to that indicated, and be suited to the same use as that specified.
- c) There is no guaranteed time frame for the City's review of the substitution requests.
 - d) The burden of proof as to the type, function, and quality of any such substitute product, material or equipment shall be upon the Contractor. The Engineer may require at the Contractor's expense additional data about the proposed substitute.
 - e) If the Engineer takes no exceptions to the proposed substitution, it shall not relieve the Contractor from responsibility for the efficiency, sufficiency, quality, and performance of the substitute material or equipment, in the same manner and degree as the material and equipment specified by name.
 - f) The lack of action(s) on the Engineer's side within the Contractor's requested time shall not constitute acceptance of the substitution.
 - g) Acceptance by the Engineer of a substitute item shall not relieve the Contractor of the responsibility for full compliance with the Contract Documents.
 - h) For the substitution review process or to have materials listed on the AML, refer to the AML standard review process.
 - i) The Bid submittal shall be based on the material and equipment specified by name in the Contract. If the proposal is rejected by the Engineer, the Contractor shall not be entitled to either an extension in Contract Time, increase in the Contract Price, or both.
 - j) As applicable, no Shop Drawing or Working Drawing submittals shall be made for a substitute item nor shall any substitute item be ordered, installed, or utilized without the Engineer's prior written.
 - k) The Contractor shall reimburse the City for the charges of the Engineer for evaluating each proposed substitute.
 - l) For Design-Build contracts, one copy of all designer reviewed submittals shall be provided to the Engineer.

SECTION 5- UTILITIES

5-1 LOCATION. Third paragraph, ADD the following:

For SDG&E's facilities, the Contractor shall contact the underground utility locators at least 10 Working Days in advance of excavation. The Contractor shall notify SDG&E at least 10 Working Days prior to excavating within 10' of SDG&E Underground High Voltage Transmission Power Lines.

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

6-1.2 Commencement of Work. To the GREENBOOK and City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Unless specified otherwise, construction shall start within 5 Working Days after NTP and be diligently prosecuted to completion within the Contract Time. The Contractor shall not start any construction activity at the Site until the Pre-construction Meeting is held and the NTP has been issued by the Engineer.

Upon the Contractor's written request, the City may delay the NTP as follows:

- a) Up to 5 Working Days from the Pre-construction Meeting, or
- b) Up to 40 Working Days from the Limited NTP for the preparation, submittal, obtaining approval for and filing of the PRDs in accordance with 801, "STORM WATER POLLUTION CONTROL," or
- c) Up to 60 Working Days from the Limited NTP for the preparation, submittal, and approval of the TCP on "D-sheets" when specified in 7-10.2, "Traffic Control."

For areas that do not require engineered TCP on D-sheets, the Contractor may at any time after the Pre-construction Meeting obtain a TCP Permit via Working Drawings or the City's over the counter process and start the Work. If the Contractor decides to commence the construction work before the completion of the D-sheet TCPs, the Contractor shall forfeit the 60 Working Days specified here. The D-sheet TCP shall be done concurrently and no additional time will be granted.

For paving Work, the Contractor shall coordinate the Work to facilitate the installation and protection of the new curb ramps and associated concrete work prior to commencing the asphalt overlay operations. The Work at a specific location shall not commence until all layouts and measurements are agreed upon by both the Contractor and the Engineer.

ADD: 6-1.8 Pre-construction Meeting. Within 20 Working Days from the Limited NTP the Engineer will schedule a mandatory pre-construction meeting (Pre-construction Meeting) with the Contractor. The agenda will include items such as NTP, design services and submittal and review process for Design-Build contracts, critical elements of the work schedule, submittal schedule, cost breakdown of major lump sum items, payment requests and processing, environmental and community concerns, coordination with the involved utility firms, the level of record project documents required and emergency telephone numbers for all representatives involved in the course of construction.

ADD: 6-5.9 City's Right to Terminate or Suspend for Loss of Project Funds. The City may terminate or suspend this Contract at its sole discretion if the State of California or its agents render the Redevelopment Agency funds (being used to fund this Project) unavailable. If the City chooses to suspend this Contract that suspension will last until funds are identified and approved by the City Council, or Mayor, whichever is appropriate, to be used to complete this project. If the City elects under this provision to terminate this Contract, then neither Party is entitled to compensation from the other Party for any costs arising from such termination. The City may also elect to terminate after invoking a suspension under this provision.

ADD: 6-8.1 Completion. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

6-8.1 Completion. The Contractor shall submit a written assertion that the Work has been completed. If, in the Engineer's judgment, the Work has been completed in accordance with the Contract Documents, the Engineer will set forth in writing the date the Work was completed. This will be the date when the Contractor is relieved from responsibility to protect and maintain the Work.

6-8.2 Acceptance. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

6-8.2 Acceptance. Acceptance will occur after all of the requirements contained in the Contract Documents have been fulfilled. If, in the Engineer's judgment, the Contractor has fully performed the Contract, the Engineer will accept the Contractor's performance of the Contract.

6-8.3 Warranty. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

6-8.3 Warranty. Unless specified otherwise, the Work shall be warranted by the Contractor against defective workmanship and materials for a period of 1 year.

- a) The warranty period shall start on the date of completion of the Work as determined by the Engineer.
- b) The Contractor shall provide an unconditional warranty on all installed fiber optic cable for a minimum period of 2 years.
- c) The warranty period for the following items of the Work shall be 3 years:
 1. Work under Section 500 (requires Long Term Warranty Contract (LTWC))
 2. DWT Construction (requires manufacturer's warranty)
 3. LED signal modules (requires manufacturer's warranty)
 4. Private sewer pumps including the alarm panel and all other accessories. The Contractor shall provide the City and property owner a copy of the warranty. (requires manufacturer's warranty)
- d) The Contractor shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
- e) The warranty period for specific items covered under manufacturers' or suppliers' warranties shall commence on the date they are placed into service at the direction of or as approved by the Engineer in writing.
- f) All warranties, express or implied, from Subcontractors or Suppliers, of any tier, for the work performed and materials furnished shall be assigned, in writing, to the City, and such warranties shall be delivered to the Engineer prior to acceptance of the Contractor's performance of the Contract.
- g) The Contractor shall replace or repair defective Work in a manner satisfactory to the Engineer, after notice to do so from the Engineer, and within the time specified in the notice. If the Contractor fails to make such replacement or repairs within the time specified in the notice, the City may perform the replacement or repairs at the Contractor's expense. If the Contractor fails to reimburse the City for the actual costs, the Contractor's Surety shall be liable for the cost thereof.
- h) Nothing in this warranty is intended to limit any manufacturer's warranty which provides the City with greater warranty rights than set forth in this section or the Contract Documents.

- i) These specifications are not intended to constitute a period of limitations or waiver of any other rights or remedies City may have regarding the Contractor's other obligations under the Contract Documents or federal or state law.
- j) The Contractor shall respond and initiate corrective action within 24 hours of notice of nonconforming Work that poses an imminent threat to person or property.

6-9 LIQUIDATED DAMAGES. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

MODIFY to increase the daily value from \$250 to \$1,000 for contracts with a value of over \$100,000.

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 this contract.

ADD: 7-3.1 Policies and Procedures.

- a) You must procure the insurance described below, at your 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.
- b) Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
- c) 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 this contract, e.g., your indemnity obligations, will not be deemed limited to the insurance coverage required by this contract.
- d) 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.
- e) 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 this contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of this contract may be treated by the City as a material breach of contract.

ADD: 7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

- a) 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.
- b) 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).
- c) 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.

- d) 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.

- a) 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”).
- b) All costs of defense must be outside the limits of the policy.

ADD: 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 Eligible Surplus Lines Insurers (LESLI 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.

ADD: 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.

ADD: 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.
1. 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.
 2. 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 the Contractor's 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.

ADD: 7-3.6 Deductibles and Self-Insured Retentions. You are responsible for the payment of all deductibles and self-insured retentions. Disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

ADD: 7-3.7 Reservation of Rights. We reserve 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. We 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.

ADD: 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.

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

ADD: 7-3.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).

- a) For contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), etc. by you) for all of your employees or Subcontractors who provide professional engineering services under this contract, you must keep or must require your Subcontractor keep in full force and effect, Professional Liability coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate.
- b) You must ensure both that: (a) the policy retroactive date is on or before the date of commencement of the Project; and (b) the policy will be maintained in force for a period of 3 years after completion of the Project or termination of this contract whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
- c) If professional engineering services are to be provided solely by the Subcontractor, you must (a) certify this to the City in writing and (b) agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

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

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

- a) In accordance with the provisions of §3700 of the California Labor Code, you must provide at its 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.

- b) Limits for this insurance must be not less than the following:

<u>Workers' Compensation Statutory</u>	<u>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

- c) By signing and returning this 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 will 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, DELETE item e) in its entirety.

7-5.3 Payment. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

The payment for applying for and obtaining the required permits shall be included in the various Bid items unless a Bid item has been provided.

7-8.6 Water Pollution Control. ADD the following:

- a) The Project is subject to the Storm Water Pollution control requirements listed on the Plans or as specified in these specifications.
- b) For contracts subject to Construction General Permit (CGP), the Contractor's QSD shall verify the City's assessment prior to submittal through SMARTS.
- c) The Contractor's attention is directed to Section 801, "WATER POLLUTION CONTROL" of these specifications for more information.

Based on a preliminary assessment by the City, this contract is subject to WPCP.

7-9 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS. ADD the following:

In any emergency affecting the safety of persons or property, the Contractor shall act, at its discretion, to prevent threatened damage, injury or loss. Any change in Contract Price or Contract Time resulting from emergency work shall be determined as provided in SECTION 3, "CHANGES IN WORK."

7-10.1 Traffic and Access. To the City Supplement, DELETE the agency notification listing in its entirety and SUBSTITUTE with the following:

The Contractor shall notify Metropolitan Transit System (MTS), a minimum of 5 Working Days prior to excavation, construction, or traffic control affecting bus stops. The Contractor shall notify the remaining agencies a minimum of two 2 Working Days prior to construction activities affecting the agencies:

Fire Department Dispatch	(Street or alley closure)	(858) 573-1300
Police Department Traffic	(Street or alley closure)	(858) 495-7800
Street Division/Electrical	(Traffic signals)	(619) 527-7500
U.S. Navy	(32nd Street Naval Station)	(619) 556-1319
Underground Service Alert	(Any excavation)	(800) 422-4133
MTS	(Street Closure and Bus Stops)	(619) 238-0100 Ext 6451

7-10.2.2 ENGINEERED Traffic Control Plans Provided by the Contractor. To the City Supplement, ADD the following:

Engineered “D” size TCP shall be required for the following areas:

- a) 43rd St. between University Ave. and Polk Ave.
- b) Polk Ave.

7-10.2.6 Traffic Control Signs and Notices for Resurfacing and Slurry Sealing. To the City Supplement, 1st paragraph, ADD the following:

For each street segment in addition to resurfacing and slurry sealing, the Contractor shall be posted “NO PARKING” for any required preparatory work such as, but not limited to, damaged asphalt pavement replacement (mill & pave), crack seal, and tree trimming.

7-10.6 Traffic Plate Bridging. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Transverse or longitudinal cuts, voids, trenches, holes, and excavations in the right-of-way that cannot be properly completed within 1 Working Day shall be protected by adequately designed barricades and structural steel plates [plates] that will support legal vehicle loads in such a way as to preserve unobstructed traffic flow.

The Contractor shall secure approval, in advance, from authorities concerning the use of any bridging proposed on the Work.

Plates shall conform to the following:

- a) The trench shall be adequately shored to support the bridging and traffic loads.
- b) Plates shall be designed for HS 20-44 truck loading in accordance with Caltrans Bridge Design Specifications Manual.
- c) For the minimum thickness of plates refer to Table 7-10.6(A):

Table 7-10.6(A) - Trench Width / Minimum Plate Thickness

Trench Width	Minimum Plate Thickness
10" (0.25 m)	1/2" (13 mm)
1'-11" (0.58 m)	3/4" (19 mm)
2'-7" (0.80 m)	7/8" (22 mm)
3'-5" (1.04 m)	1" (25 mm)
5'-3" (1.6 m)	1 1/4" (32 mm)

For spans greater than 5'-3" (1.6 m), a structural design shall be prepared by a California Registered Civil Engineer and approved by the Engineer.

- d) Plates shall have a skid-resistant surface with a nominal Coefficient Of Friction (COF) of 0.35 as determined by California Test Method 342.
- e) Plates shall extend a minimum of 12” (300 mm) beyond the edges of the trench.
- f) Plates shall provide complete coverage to prevent any person, bicycle, motorcycle or motor vehicle from being endangered due to plate movement causing separations or gaps.

- g) Plates shall be secured against movement or displacement by using adjustable cleats, shims, welding, or other devices, and shall be installed in a manner that will minimize noise as traffic drives over them. Plates shall be installed using either Method (1) or (2):
 - i. Method 1 [For speeds greater than 45 mph (70 Km/hr)]: The pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate.
 - ii. Method 2 [For Speeds less than 45 mph (70 Km/hr)]: Approach plate(s) and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of 2 dowels pre-drilled into the corners of the plate and drilled 2" (50 mm) into the pavement. Subsequent plates are butted to each other. Fine graded asphalt concrete shall be compacted to form ramps, maximum slope 8.5 % with a minimum 12" (305 mm) taper to cover all edges of the plates.

Alternative installation method may be submitted in accordance with 2-5.3, "Submittals" for the Engineer's approval.

- h) The Contractor shall be responsible for maintenance of the plates, shoring, and asphalt concrete ramps or any other approved device used to secure the plates. The Contractor shall immediately mobilize necessary personnel and equipment after being notified by the Engineer, the City's station 38, or a member of the public of a repair needed e.g., plate movement, noise, anchors, and asphalt ramps. Failure to respond to the emergency request within 2 hours will be grounds for the City to perform necessary repairs that will be invoiced at actual cost including overhead or \$500 per incident, whichever is greater. Failure by the Contractor to comply may result in automatic grounds suspension of permit, Contract, or both.
- i) When plates are removed, any damage to the pavement shall be repaired with fine graded asphalt concrete mix or slurry seal satisfactory to the Engineer.

Payment for traffic plate bridging shall be included in the various Bid items unless a Bid Item has been provided for steel plate bridging.

ADD: 7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT. The Contractor shall defend, indemnify, protect, and hold harmless the City, its agents, officers, and employees, from and against all claims asserted, or liability established for damages or injuries to any person or property resulting from the Contractor's action or failure to take the necessary measures to prevent such damages and injuries.

The Contractor shall be responsible for payment of any fines resulting from citations issued to the City by either the federal, state, or local environmental and safety enforcement agencies due to the Contractor's failure to abide by applicable safety, health, and environmental standards.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

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

PART 2 - CONSTRUCTION MATERIALS

SECTION 207 – PIPE

207-17.1 General. ADD the following:

All House Connection Sewer Laterals shall use acceptable stainless steel shielded couplings manufactured by Mission, Fernco or approved equal.

ADD: 207-17.2.3 Pipe Manufacturer. Pipe, fittings, couplings, and joints as manufactured or distributed by J-M Manufacturing Company shall not be used on this contract.

207-26.1.1 Polymer Concrete Water Meter Boxes. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Boxes and covers to be installed in traffic areas shall have a reinforced polymer concrete frame and cover designed for AASHTO H-20 traffic loading. Boxes and covers to be installed in non-traffic areas shall have reinforced polymer concrete reader lids designed for A-10 traffic loading in accordance with ASTM-C857. Traffic areas are defined as any location in which vehicular traffic is evident or highly likely under normal conditions. Non-traffic areas are locations with no vehicular traffic. Covers shall have a logo reading "PUD WATER" as well as the manufacturer's name or logo cast in the polymer concrete surface. A cover and lid selected at random shall be tested. The cover and lid shall support without failure a total vertical load of at least 1,000 pounds, when supported in a horizontal position in the meter box. The load shall be applied to the center of the lid by a cylindrical pin, 1.952" in diameter, supported on a 2-thick rubber pad.

Unless provided for as a separate Bid item, payment for Polymer Concrete Box shall be included in the Bid item for water services.

207-26.1.5 Polyvinyl Chloride Pipe 2" Only. To the City Supplement, DELETE in its entirety.

SECTION 210 – PAINT AND PROTECTIVE COATINGS

ADD: 210-6 Anti-graffiti Coating. Anti-graffiti coating shall be as manufactured by Monopole, Inc. (or approved equal).

Materials shall be applied as specified below:

- a) 1st Coat: Aquaseal ME12 (Item 5200)
- b) 2nd Coat: Permashield Base (Item 6100)
- c) 3rd Coat: Permashield Premium (Item 5600 for matte finish or Item 5650 for gloss finish)
- d) 4th Coat: Permashield Premium (Item 5600 for matte finish or Item 5650 for gloss finish)

SECTION 216 – DETECTABLE WARNING TILES

216-1.2 Materials. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Materials for DWT specified herein shall be per the City's Approved Materials List (AML). The tiles shall have the manufacturer's logo stamped permanently on the product with identifying information such as model number and type.

- a) The Stainless Steel Cast in Place DWT shall be of 16 gauge Type 304L with an integral micro-texture non-slip surface stamped into the stainless steel plate on the top of the domes and in the field surface between the domes. It shall have an ultra violet stabilized coating.
- b) Vitrified Polymer Composite (VPC) Cast in Place DWT shall be an epoxy polymer composition with an ultra violet stabilized coating employing aluminum oxide particles in the truncated domes. VPC Product shall be provided with a 5-year manufacturer written warranty form materials and installation.
- c) For others materials and a complete listing of material physical property requirements refer to the City's AML.

PART 3 – CONSTRUCTION METHODS

SECTION 302 – ROADWAY SURFACING

302-5.2 Pavement Restoration Adjacent to Trench. Pavement restoration adjacent to trench shall include the replacement of existing pavement adjacent to the proposed trench and outside the trench limits, that was previously broken or displaced.

Prior to the commencement of the Work, the Contractor shall meet with the Engineer and determine the limits of the pavement to be replaced. If the Contractor does not meet with the Engineer before removing the pavement, all replacement outside the limits of the proposed trench resurfacing shall be at the Contractor's expense.

Existing pavement shall be removed in accordance with Section 300-1.3.2. Prior to pavement restoration, existing subgrade shall be prepared in accordance with 301-1, "SUBGRADE PREPARATION." If any existing unsuitable subgrade as determined by the Engineer is encountered, it shall be replaced with imported backfill in accordance with 306-1.3.7, "Imported Backfill" prior to preparation.

302-5.2.1 Measurement and Payment. Payment for pavement restoration adjacent to trench will be made on a square foot basis as shown in the Bid in accordance with 302-6.8, "Measurement and Payment." Unless Bid includes separate Bid item(s), the following shall be included in the payment for pavement restoration adjacent to trench:

- a) saw-cutting existing edges,
- b) removal and disposal of existing pavement,
- c) subgrade preparation including imported backfill material,
- d) form work,
- e) placement, curing, and protection of new pavement, and
- f) placing full depth AC per CSDSD SDG-107-Type "A".

302-6.1 General. To the City Supplement, Last paragraph, DELETE in its entirety and SUBSTITUTE with the following:

Prior to placing concrete, existing subgrade shall be prepared in accordance with 301-1, "SUBGRADE PREPARATION."

If any existing unsuitable subgrade, as determined by the Engineer, is encountered it shall be replaced in accordance with 300-2.2, "Unsuitable Material."

302-6.8 Measurement and Payment. To the City Supplement, DELETE in its entirety.

302-13.4 Application. To the City Supplement, 2nd paragraph, DELETE in its entirety and SUBSTITUTE with the following:

Sealant shall be applied from the bottom of the crack up to the surface in a manner which does not result in sealant bridging or pockets of entrapped air. The sealant shall be applied to a slightly overfilled condition and then leveled with a squeegee. The width of sealant remaining on the surface shall not exceed 1.5" on either side of the crack. Any debris blown onto adjacent gutters, sidewalks, parkways, medians, intersections or other areas shall be removed prior to the end of the Working Day.

SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

306-1.6 Basis of Payment for Open Trench Installations. To the City Supplement, MODIFY as follows:

Second paragraph, DELETE in its entirety and SUBSTITUTE with the following:

The unit price bid for pipe and conduit in place shall be considered full compensation for all wyes, tees, bends, monolithic catch basin connections, and specials shown on the Plans; the removal or restoration of interfering portions of existing sewers, storm drains, and existing improvements as shown on Plans; the closing or removing of abandoned conduit and structures; the excavations of the trench; the control of ground and surface waters; the preparation of subgrade; placing, joining and testing pipe; backfilling the trench; permanent resurfacing; disposal of excess excavation; temporary resurfacing when not a Bid item; and all other work necessary to install the pipe or conduit, complete in place.

Third paragraph, after the word "backfill" ADD: "disposal of all excess excavation,"

ADD the following:

- a) The Unit Price bid for thrust and anchor blocks shall include the payment for the thrust blocks and anchor blocks for water main 16” and larger.
- b) Thrust blocks and anchor blocks for water mains 12” and smaller shall be included in the Bid item for water mains.
- c) Payment for potholing for thrust blocks and anchor blocks for water mains 16” and larger shall be included in the Bid item for water main.
- d) Payment for meter assembly shall be included in the various Bid items unless a pay item has been provided for Meter Assembly. The concrete pad, fence, gate, associated piping, and coordination with City Forces shall be included in the payment for the meter assembly.
- e) Payment for valves, fire hydrant assembly and marker, fire service assembly, fire service connection, and backflow preventer shall be included in the unit price Bid items for Valves, Fire Hydrant Assembly and Marker, Fire Service Assembly and backflow preventer, Fire Service Connection, and Backflow Preventer.
- f) Removal of existing Fire Hydrant and all appurtenant work shall be included in the Bid item for Fire Hydrant and Assembly and Marker.
- g) Payment for underdrains shall be included in the unit Bid item for “Underdrains.”
- h) The quantity of filter fabric to be paid for will be measured in square yards of the area covered, not including additional fabric for overlap. The quantity of permeable material to be paid will be measured by tons.

306-1.7 House Connection Sewer (Laterals) and Cleanouts. To the City Supplement, 2nd paragraph, DELETE in its entirety and SUBSTITUTE with the following:

Laterals shall be replaced and shall include a cleanout at property line. Lateral connections at the property line shall be made with stainless steel shielded couplings. The Plans show the approximate location of the laterals. Connections at the main shall be made using a “wye” cut-in. Saddle connections shall not be permitted.

ADD: 306-13.2 Pipe Separations. Pipe installation shall be in compliance with the State’s health standards for separation and the following:

- a) The Contractor shall notify the Engineer immediately if sewer and water pipes, whether existing or proposed, are found to be closer than 4’ horizontally or 1’ vertically.
- b) When a proposed water main is installed above an existing sewer main, no connection joints shall be within 8’ outside the sewer main crossing on both sides.
- c) When a proposed water main is installed below an existing sewer main, no connection joints shall be within 10’ of the sewer main crossing on both sides.
- d) When a proposed sewer main is installed above an existing water main, no connection joints shall be within 10’ outside the water main crossing on both sides.
- e) When a proposed sewer main is installed below an existing water main, no connection joints shall be within 4’ outside the water main crossing on both sides.
- f) Dimensions shall be measured from outside pipe wall to outside pipe wall.
- g) If 1’ vertical separation cannot be maintained between proposed and existing utilities, 6” – 11” sand cushion per 200-1.5, “Sand” and 1” neoprene pad shall be installed as shown on Plans. The neoprene pad shall be 1” thick and wide enough to extend a minimum of 6” horizontally beyond the outside pipe wall. Neoprene pads shall have hardness between 50-70 durometers, as manufactured by Hoffmeyer Company, Industrial Rubber Supply, or approved equal. The neoprene pad shall be installed immediately below or on top of the existing utility. The sand cushion shall be placed between the neoprene pad and the proposed pipe.

306-13.3 Utility Crossings. To the City Supplement, DELETE in its entirety.

306-14 WATER SERVICES. To The City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

ADD: 306-14 WATER SERVICES. Each service shall have its own meter unless specified otherwise on the Plans. Water Services shall conform to 207-25, "POLYVINYL CHLORIDE (PVC) PRESSURE PIPE" and 207-26, "PIPE APPURTENANCES."

PART 8 – ENVIRONMENTAL WORKS

SECTION 801 – WATER POLLUTION CONTROL

801-2.9 Post-Construction Requirements. To the City Supplement, second paragraph, ADD the following:

The decal-disc inlet markers shall be "das Duracast Curb Marker®" or approved equal.

ADD the following:

The Contractor shall comply with the following post-construction requirements:

Inlet markers

END OF SUPPLEMENTARY SPECIAL PROVISIONS

APPENDIX A

SPECIAL PROVISIONS

CITY HEIGHTS SQUARE MINI PARK

SPECIAL PROVISIONS

THESE ADDITIONAL SUPPLEMENTARY SPECIAL PROVISIONS CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE GREENBOOK) CURRENTLY ADOPTED BY THE CITY, INCLUDING ITS CURRENT SUPPLEMENT AMENDMENTS (CITY SUPPLEMENTS INCLUDED IN THE WHITEBOOK), EXCEPT FOR THE FOLLOWING:

All provisions of the "Standard Specifications for Public Works Construction," (2009 edition) (Green Book, Document No. PITS0504091 with 2009 Edition City of San Diego Supplements, Document No, PITS050409-2 Regional Supplement, and the City of San Diego Standard Special Provisions, shall apply to the work as if bound herein, plus the following:

PART 1 - GENERAL PROVISIONS

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

1-3 ABBREVIATIONS.

1-3.2 Common Usage. ADD the following:

- GV Globe valve
- QCV Quick coupler valve
- POC Point of connection (irrigation plans)
- GPM Gallons per minute

SECTION 2 - SCOPE AND CONTROL OF WORK

2-5 PLANS AND SPECIFICATIONS.

2-5.3 Submittals.

2-5.3.3 General. ADD the following:

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.

SECTION 7 – RESPONSIBILITIES OF THE CONTRACTOR

7-8 PROJECT SITE MAINTENANCE.

ADD: 7-21 PROTECTION OF EXISTING PLANT MATERIAL.

7-21.1 Construction Operations.

1. All plants outside the limit of work shall be protected in place. All trees to remain shall be protected in place.
2. Identify and protect from damage all individual plants and areas of planting to remain by appropriate means. 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.
3. Provide adequate barriers (4' vinyl safety fencing) and undertake work in a manner that protects trees from damage by operations and equipment.
4. Do not store material and chemicals under the drip line of trees.

5. Do not operate equipment, which generates fumes or excessive heat, within 20' of the trees to remain. Fumes and heat can damage trees.
6. The grade around existing trees to remain shall remain as existing to avoid disturbance of roots and avoid burying the roots under additional soil.
7. No excavations shall take place within the tree preservation limits except under the supervision of the Resident Engineer.
8. When excavation near a tree to be preserved must be carried out, damage shall be limited by root pruning. Roots shall be cleanly severed at the limit of the excavation. Root pruning shall be completed before the installation of improvements, structures and grading. All work shall be done based on the Arborists recommendations.
9. 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.
10. 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.
11. 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.
12. 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).
13. 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.

7-21.4 Clean-Up Repair and Maintenance.

1. Upon completion of all work, remove tools equipment and tree preservation materials and measures from the site.
2. 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.

PART 2 - CONSTRUCTION MATERIALS

SECTION 200 - ROCK MATERIALS

200-1 ROCK PRODUCTS.

ADD: 200-1.8 Boulders. All boulders shall be sized and located as shown on the plans. The boulder type shall be "Desert Select Boulder" as supplied by KRC Rock, or approved equal.

The Contractor shall submit photos of boulders to be provided illustrating the range of color and variety of sizes for each type specified, for approval by the Resident Engineer prior to purchase or installation. Photos shall be a representative record of the quality of materials to be provided. All boulders shall be free of significant fractures and disfiguration and shall be approved by the City Engineer prior to placement.

ADD: 200-1.9 Cobble Mulch. Cobble shall be of dark gray – black naturally rounded rock in 3”-5” sizes and is to be provided and installed by the Contractor. Cobble shall be “Beach Pebble Black” as supplied by Decorative Stone Solutions, or approved equal. Cobble shall be free of chips, earth, and discolorations or other material. All cobble shall be washed to remove dirt, dust and loose material prior to placement on site. Cobble shall be clean prior to setting.

The Contractor shall submit samples of cobble (6 pieces) illustrating the range of color and variety of sizes for each type specified, for approval of the City Engineer prior to installation. Contractor shall also submit photos of each type of cobble material specified as a representative record of general color variation.

ADD: 200-1.10 Gravel. Gravel shall be ¾” in tan, beige, and rust-colored, crushed gravel “Baja Cresta Grey”, as supplied by Decorative Stone Solutions, or approved equal. Gravel shall be free of chips, earth, and discolorations or other material. All gravel shall be washed to remove dirt, dust and loose material prior to placement on site. Gravel shall be clean prior to setting. Gravel shall be placed under tree grates prior to placement of the tree grate into the frame.

200-1.10.1 Filter Fabric (Soil Separation). Contractor shall provide filter fabric for soil separation purposes beneath gravel, cobble mulch and pavers to separate gravel, cobble mulch and pavers from 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 as indicated on plans and details. See Section 300-10 for installation.

200-2 UNTREATED BASE MATERIALS.

ADD: 200-2.3 Crushed Aggregate Base. Base material for sidewalks and driveways shall conform to ¾" crushed aggregate base or ¾" Class 2 aggregate base, per Caltrans Standard Specifications (current edition). Where indicated on the plans, trails shall be surfaced with Class 2 aggregate base, per Caltrans Standard Specifications (current edition).

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-B-3250	4-inch (Must be certified by truck ticket.)
Concrete Curb	560-C-3250	4-inch
Concrete Street Section	560-C-3250	3-inch

201-1.2 Materials.

201-1.2.4 Chemical Admixtures. ADD the following:

- e) **INTEGRAL COLORED CONCRETE.** Integral color shall consist of colored admixtures developed for use in ready mixed concrete. The product shall be made of the highest quality pigments, as well as other ingredients designed to enhance the color and improve the pigment dispersion, workability and finishing performance of the concrete.

Integral color pigments shall meet or exceed ASTM-C-979. The coloring method shall be designed for concrete flatwork applications (broom finishes, sandblast finishes, smooth finishes), as well as vertical surfaces, and other types of architectural concrete. Pigment shall be a permanent coloration, uniform throughout the concrete surface and interior, and shall be highly UV and fade resistant.

Integral colored concrete shall be cured with Davis Color W-1000 Clear Cure and Sealer, or approved equivalent color to match the specified color, matched to the concrete. Provide sample panel of all colors to be used in the installation on identical surfaces for approval by Resident Engineer with coordination by the Landscape Architect prior to construction. Contractor shall provide a maintenance schedule for integral colored concrete.

Admixture for all integral colored concrete: Concrete Curb – 4” and Concrete Curb – 6” shall be the following:

Manufacturer: Color admixtures for color-conditioned concrete, or approved equivalent
Supplier: Stepstone, Inc.
17025 South Main Street
Gardena, California 90248
1-800-572-9029
Colors: ‘Granada’ custom color mix as prepared and available from Stepstone, Inc.
Curing: Davis Color W-1000 Clear Cure and Sealer

Admixture products and procedures for installation shall be in strict accordance with the manufacturer’s specifications and recommendations, and those published by the American Concrete Institute (ACI) and the Portland Cement Association (PCA).

ADD: 201-1.7 Lithocrete Architectural Concrete. (ADDITIVE ALTERNATE #B)

Additive Alternate #B - See the following specifications, Sections 201 and 309 for work related to installing the 'Lithocrete Architectural Concrete' as part of Additive Alternate work item.

201-1.7.1 General. Requirements of "General Conditions of the Contract" and of Division 1, "General Requirements," apply to work in this Section with same force and effect as though repeated in full herein.

201-1.7.2 Scope of Work. Furnish materials, labor, transportation, services, and equipment necessary to furnish and install Architectural Cast-in-place Concrete (Lithocrete®) incorporating the patented Cast-in-place concrete (Lithocrete®) process as indicated on Drawings and as specified herein.

Work included in this Section:

Lithocrete® architectural concrete products and concrete installations are covered by one or more of the following United States Letters Patents: 5,794,401; 5,887,339; 5,950,394; 6,016,635; 6,033,146; 6,082,074; 6,112,487; 7,322,772; 7,493,732; 7,607,859; 7,614,820; 7,670,081; 7,781,019. Other patents pending. Lithocrete, Lithocrete Thin Tech, Lithocrete Presto, Presto Pneumatic Spray, and LQS are registered trademarks of Lithocrete Inc.

Only experienced Architectural Cast-in-place Concrete installers, certified to install Lithocrete® are acceptable for this project. Acceptance of certification will be based on proof of certification, experience and approved samples and mockups to be provided within 30 days after Notice to proceed. If timeframe is exceeded, suitable experience is not provided, or mockups are unacceptable – installer will not be eligible to install project.

Approved sample (Sample #CHSMP-A) for this project are available at: City of San Diego, Alexandra Corsi (619) 533-4644, as prepared by T.B. Penick & Sons, Inc. Contact T.B. Penick & Sons, Inc., *Frank Klemaske*, 800-239-3046.

201-1.7.3 Applicable Standards. Specifications and recommended practices of American Concrete Institute (ACI), American Society for Testing and Materials (ASTM), The Uniform Building Code, and under one or more U.S. Patents 5,794,401; 5,887,339; 5,950,394; 6,016,635; 6,033,146; 6,082,074; 6,112,487; 7,322,772; 7,493,732; 7,607,859; 7,614,820; 7,670,081; 7,781,019 and U.S. Trademarks #1,879,329, # 2,358,183 # 2,358,054) referred to in this Specification with their individual designations are to be considered part of this Specification.

Design and Control of Concrete Mixtures – Thirteenth Edition; Portland cement Association.

201-1.7.4 Quality Control. Quality control to be maintained by certified & licensed installers of Lithocrete® throughout duration of project.

Paving Subcontractor Qualifications: provide evidence to indicate successful experience in providing Lithocrete® similar to that specified herein and demonstrate successful experience

As part of the bid submittal the General Contractor shall submit background information/qualifications on his Architectural Cast-in-place Contractor certified for Lithocrete® installation. This information shall provide evidence to indicate successful experience in providing concrete work identical to that specified herein. A listing of projects shall be provided and shall be reviewed and approved as comparable projects to the specified work by the Owner or Architect prior to award of bid. Failure to provide this information or the submittal of incomplete or inaccurate information shall give cause to reject the entire bid as non responsive and incomplete. The submittal shall provide the Owner and Architect with evidence of successful experience in Lithocrete® similar to that specified herein and can demonstrate successful experience through past project documentation and references.

Demonstration of experience: provide a minimum of one (1) projects of installed Lithocrete architectural cast-in-place concrete of similar size and quality with a reference list of each containing address of installation, contact person and phone number of project's architect or owner's representation. Minimum size of each individual installation shall be 256 square feet. Provide two (2) color photos, 8" x 10" size, of each installation listed above representing the installation. Photo #1 shall show the approximate size of the installation. Photo #2 shall be taken approximately 2 to 3 feet from the paving surface. See submittals portion of this section for additional information.

Supervision: On site superintendent must have a minimum of 5 years experience installing Lithocrete®. See submittals portion of this section for additional information.

Slip Resistance: provide a finish with a slip resistance of equal or greater than 0.65 when tested by the owner in accordance with ASTM F 489

201-1.7.5 Submittals. Product Data: Submit no later than 10 days after contract award a typed list of products specified in this Section.

Submit shop drawings for reinforcing steel and accessories in accordance with ACI standards. Submit Paving Jointing and Pour Sequence Plan - submit six blueprints indicating the following:

- a. Proposed layout of contraction, construction and isolation joints. Clearly delineate the three different joint types.

- b. Layout of paving types as indicated on Drawing Paving Schedule. Give overall dimensions of each paving type.
- c. Concrete pour sequence. Indicated sequence of paving pour installation.

Submit Statement of Mix Design: Submit (1) copy of Statement of Mix Design prepared by batch plant servicing Project for each load delivered to Project. Statement of Mix Design to contain following information:

1. Name, address, and telephone number of batch plant preparing statement of mix design.
2. Date of mix design.
3. Project location.
4. Contractor requesting load delivery.
5. Mix design number.
6. Integral color used.
7. Gradations for sand and aggregate.
8. Material weights, specific gravity, and absolute volumes.
9. Basis of testing, i.e. UBC 2605 D4 and Title 24 2604 D4.
10. Water/cement ratio.
11. PSI rating.
12. Signature of testing laboratory manager.
13. Signed stamp from registered Project structural engineer or architect.

Submit evidence of installer qualifications for experience, demonstration of square footage installed, number of projects, and contact information to verify experience as indicated in Quality Control section of this specification.

Lithocrete[®] Surface-Seeded Aggregate (extra stock): One 1-pound sample of each Lithocrete[®] aggregate specified.

Washed Concrete Sand (extra stock): One 50-pound sealed bag of washed concrete sand similar to type used during installation of Lithocrete[®].

201-1.7.6 Mock-Ups. Prior to construction, provide (1) 4-foot x 4-foot x 4-inch sample of each Lithocrete[®] paving type specified on Drawings.

Ensure that each mock-up contains joint types specified on project, i.e. construction, contraction, and isolation.

Locate mock-ups in a conveniently accessible and protected place. Approved mock-ups will be standard for future Lithocrete[®] installation review.

Remove mock-ups from site upon completion of Work and approval by Owner's Authorized Representative.

201-1.7.7 Products.

201-1.7.7.1 Portland Cement. Type I, IA, II, IIA, III, IIIA, IV, and V cements, to conform to ASTM C150. Use same brand of cement from single source throughout entire project. Refer to Drawings for cement type specified.

201-1.7.7.2 Washed Concrete Sand. Clean, hard, and durable washed concrete sand, conforming to ASTM C33. Use same sand from single source throughout entire project.

201-1.7.7.3 Course Aggregate. Clean, hard, and durable coarse aggregate, conforming to ASTM C33. Use same aggregate from single source throughout entire project.

201-1.7.7.4 Lithocrete® Surface-Seeded Aggregate. Contact T.B. Penick & Sons for specified Lithocrete® surface-seeded aggregate type, size, color, and distribution percentage. Lithocrete finish matching T.B. Penick & Sons samples #CHSMP-A.

Use same Lithocrete® surface-seeded aggregate from same source for each paving type specified throughout entire project.

201-1.7.7.5 Water. Free from deleterious materials such as oils, acids, and organic matter.

201-1.7.7.6 Admixtures. Integral Concrete Coloring Admixture: Refer to Drawings for color type and manufacturer. Acceptable Manufacturers:

- a. L.M. Scofield; (800) 800-9900.
- b. Colorfull by Admixtures, Inc.; (626) 357-3263.
- c. Davis Color (323) 269-7311.
- d. Solomon Colors (800) 624-0261

Air Entrainment Admixtures: Conforming to ASTM C260. Acceptable Manufacturers:

- a. Grace Construction Products; Daravair®, (800) 433-0020 or www.graceconstruction.com/concrete/air_entraining.html#daravair.
- b. Master Builders, Inc.; Micro-Air®, (800) 628-9990 or www.masterbuilders.com/MB/pub/Product.asp?TypeCat=2&ParentID=78&ProductID=22.
- c. The Euclid Chemical Company; AEA or Airmix Series (800) 752-4626 www.euclidchemical.com

Water Reducing Admixtures: Conforming to ASTM C494, Type A. Acceptable Manufacturers:

- a. Grace Construction Products; WRDA® (800) 433-0020 www.graceconstruction.com/concrete/water_reducers.html#wrda.
- b. The Euclid Chemical Company; Eucon Series (800) 321-7628 www.euclidchemical.com

Shrinkage Reducing Admixtures: Conforming to ASTM C157. Acceptable Manufacturers:

- a. Grace Construction Products; Eclipse® (800) 433-0020 or www.graceconstruction.com/concrete/shrinkage_reducers.html#eclipse.
- b. BASF; Tetraguard (800) 228-3318 or http://www.basf-admixtures.com/en/products/shrinkage_reducing/tetraguard_as20/Pages/default.aspx
- c. The Euclid Chemical Company; Eucon SRA (800) 321-7628 www.euclidchemical.com

201-1.7.7.7 Ready Mixed Concrete. Batched mixed and transported in accordance with ASTM C94 - "Specifications for Ready Mixed Concrete."

201-1.7.7.8 Reinforcing. Reinforcing Steel: Conforming to ASTM A615, clean and free of rust, dirt, grease or oils.

Tie Wire: 16-gauge plain cold-drawn steel conforming to ASTM A82, clean, and free of rust, dirt, grease or oils.

Supports for Reinforcement: Provide supports for reinforcement including bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcing bars in place.

Polypropylene Fiber Reinforcement: 100% virgin multifilament polypropylene fibers, complying with ASTM C 1116 - Type III. Acceptable Manufacturers:

- a. Fibermesh; Fibermix Stealth[®] – 1/4” long (423) 892-8080 or www.fibermesh.com/family/stealth.htm.
- b. Grace Construction Products; MicroFiber[™] (800) 433-0020 or www.graceconstruction.com/concrete/fibers.html

Application Rate: 1/2 lb./cy of mix.

201-1.7.7.9 Isolation Joint Materials. Refer to Section 07900 – Joint Sealers for isolation joint construction.

201-1.7.7.10 Construction Joint Dowels. Construct Diamond Dowel Construction Joints or Dowel Basket Joints at modules no larger than 20’-0” x 20’-0”.

Dowel schedule to match rebar schedule at a minimum spacing of 24-30”o.c.

¼-inch-thick diamond shaped load plate, free of dirt, grease, and oils. Contact PNA Construction Technologies at (800) 542-0214 or http://www.pna-inc.com/products/square_dowel_basket/ or contact local suppliers such as White Cap.

201-1.7.7.11 Fly Ash. Fly ash shall comply with ASTM C618 - Type F.

201-1.7.7.12 Curing Compound. Acceptable Manufacturers for concrete curing compounds:

- a. Admixtures Inc.;; Colorfull Clear Curing Compound - (626) 357-3263 or <http://admixtures.home.att.net/>.
- b. SpecCon Cure & Sealer for Lithocrete[®] - (877) 423-9255 or www.specconproducts.com

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.

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 paving as specified in Section 201-1.2.4(a) of these Special Provisions.

SECTION 202 – MASONRY MATERIALS

ADD: 202-4 TILE VENEER FOR SEAT WALLS.

202-4.1 Concrete Masonry Units per Section 202-2 ‘Concrete Block’.

202-4.2 Tile.

Model No.: CN92 – ‘City Elm’, or approved equal.
Dimensions: 20”x20”x3/8”
Manufacturer: Dal-Tile, Inc. (858) 571-1957
7484 Raytheon Rd, #B
San Diego, CA 92111
www.daltile.com

202-4.2 Grout. Tile Grout shall be ‘Accu-Color – Premium Sanded Grout #929 (Charcoal Gray), by TEC or approved equal. Contractor shall submit a range of dark grays and black grout color samples for review and approval.

Precast concrete cap grout color shall match precast concrete cap color. Contractor shall submit a grout color samples for review and approval.

202-4.3 Mortar. Mortar shall be ‘Super Flex® Premium Latex Modified Thin Set Mortar – Gray’, by TEC or approved equal.

202-4.4 Precast Concrete Seat Wall Cap.

Model: Classic Wall Cap, or approved equal.
Unit type: Straight 24” w/ bullnose on 2 long sides; Corner w/ bullnose in and out; End units w/ bullnose on 3 sides (butts to straight units)
Dimensions: 2’-0”x1’-0”x2-1/2”
Colors: ‘Granada White’
Admixture: By Davis Colors, or equal, as required to achieve color as selected.
Aggregate: Slag, standard application rate; ASTM C 33
Finish: Light Sandblast
Corners: Radius top edge
Portland Cement: ASTM C 150, Type III, high early strength.
Manufacturer: Stepstone, Inc. (800) 572-9029
17025 South Main Street
Gardena, CA 90248
(310) 327-7474
(800) 572-9029
FAX (310) 217-1424
www.stepstoneinc.com

202-4.5 Concrete and Reinforcing for Seat Wall Footings. Footings for seat wall shall be comprised of reinforced cast in place concrete placed at locations required to support seat walls as indicated on the drawings. Concrete and reinforcing shall comply with Section 201 ‘Concrete, Mortar and related Materials’.

ADD: 202-5 PRECAST CONCRETE PILASTERS.

202-5.1 Sign Pilaster Precast Concrete Units.

Model No.: Q-2060245, or approved equal.
Color: C3 'Latte'
Finish: T7 'Acid Etch'
Dimensions: 20"(w) x 5'-0"(l) x 8'-0"(h) x 3"(thk)
Attachment: Threaded rod mortared into footing
No. of Units: (8)
Cap: 26" x 66" x 3.5"
Manufacturer: Quick Crete Products Corp., Inc. (909) 737-6240
731 Parkridge Avenue
Norco, CA 92860
www.quickcrete.com

202-5.1 20 X 32 Pilaster Precast Concrete Units.

Model No.: Q203224P, or approved equal.
Color: C3 'Latte'
Finish: T7 'Acid Etch'
Dimensions: 20" x 32" x 8'-0"
Attachment: Threaded rod mortared into footing
No. of Units: (4)
Cap: 26" x 38" x 3.5"
Manufacturer: Quick Crete Products Corp., Inc. (909) 737-6240
731 Parkridge Avenue
Norco, CA 92860
www.quickcrete.com

ADD: 202-6 Precast Concrete Post Veneers.

202-6.1 Round Post Veneer. (ADDITIVE ALTERNATE #A)

Additive Alternate #A - See Drawings for specific improvements related to this scope of work.

Model No.: QR-1424CL, or approved equal.
Color: C3 'Latte'
Finish: T7 'Acid Etch'
Dimensions: 24"(h) x 1'-2"(o.d.) x 3/5"(thk)
No. of Units: (14) (Standard Units)
Attachment: Threaded rod mortared into footing

202-6.2 Square Post Veneer.

Model No.: QS-1624Cl, or approved equal.
Color: C3 'Latte'
Finish: T7 'Acid Etch'
Dimensions: 16" SQ x 24" (4) x 3.5" (thk)
No. of Units: (18)
Attachment: Threaded rod mortared into footing
Manufacturer: Quick Crete Products Corp., Inc. (909) 737-6240
731 Parkridge Avenue
Norco, CA 92860
www.quickcrete.com

202-6.3 Square Post Veneer (Bottom Units).

Model No.: QS-1630CL, or approved equal
Color: C3 'Latte'
Finish: T7 'Acid Etch'
Dimensions: 16" SQ x 30" x 3.5" (thk)
Attachment: Threaded rod mortared into footing
No. of Units: (6)
Manufacturer: Quick Crete Products Corp. Inc. (909) 737-6240
731 Parkridge Avenue
Norco, CA 92860
www.quickcrete.com

ADD: 202-7 CONCRETE PAVER MATERIALS. (ADDITIVE ALTERNATE #C)

Additive Alternate #C - The scope of work for Concrete Interlocking Pavers within the Additive Alternate limits of work shall include all the work related to provide the pavers complete and in place, consistent with the proposed surrounding plaza pavers, including but not limited to the labor, materials, sub-grade preparation, installation, and other requirements as shown on the drawings and as defined in this specification and Section 303-10.

202-2.7.1 PAVERS. Precast concrete unit pavers shall be narrow modular pavers by Step Stone Inc. (1-800-572-9029) or approved equal. Minimum slip resistance shall be verified to meet or exceed a static coefficient of friction of 0.60 per ASTM C1028-96 of a minimum. Decorative concrete unit pavers set in sand setting bed.

Model: California Architectural Pavers - precast concrete, consisting of Portland cement, aggregate, and color admixtures.
Dimensions: 4'x1'x2-1/2" exact sizes with no draft, edges shall have a uniform 1/8" continuous rounded top edge of the paver. Short paver units may be cut from larger paver.
Colors: 'Charcoal Gray' and 'Granada White'
Aggregate: Slag, standard application rate; ASTM C 33
Color Admixture: By Davis Colors, or equal, as required to achieve color as selected.
Finish: Light Sandblast
Corners: Radius top edge
Sealer: 'Blok-Guard & Graffiti Control II' by Prosoco, two coats. Apply per manufacturer's instructions
Portland Cement: ASTM C 150, Type III, high early strength.
Manufacturer: Stepstone, Inc. (800) 572-9029, or approved equal.
17025 South Main Street
Gardena, CA 90248
(310) 327-7474
(800) 572-9029
FAX (310) 217-1424
www.stepstoneinc.com

Pavers shall conform to the following structural properties:

Compressive Strength: Min. 5,000 PSI
Flexural strength: Minimum 700 PSI (ASTM C293)
Water absorption: Less than 6% (ASTM C140)
Freeze Thaw: Maximum 1% loss of dry weight (50 cycles) (ASTM C67)
Center load: 1,850 lbs (WTCL 99)

Static Coefficient of Friction (ASTM C 1028-96) – minimum. 0.60

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.

202-2.7.2 Base Course. Base course shall be Class II aggregate base compliant with Sections 301-2.5.

202-2.7.3 Setting Bed Sand. Sand Laying Course: The sand laying course shall be well-graded, clean, washed sand passing the following requirements:

Primary		
Micro-Deval Degradation test	CSA A23.2-23A	Max of 8%
Constant Head Permeability	ASTM D2434	Minimum 2x10 ⁻³ cm/second
Gradation	ASTM C33	Max 1% passing No. 200 Sieve
Secondary		
Soundness	ASTM C88	Max 7%
Silica	ASTM C295	80/20 ratio
Shape	ASTM D 2488	Min 60% combined sub-angular and sub-rounded

Do not use mason sand. The sand-laying course is the responsibility of the paving stone installer.

202-2.7.4 Joint Sand. Jointing sand shall be HP2 Polymeric Sand by Techni-seal, or approved equal. Product color shall be ‘Gray’. Submit samples for review and approval.

202-2.7.5 Concrete Header Restraint. All edges of the installed pavers shall be restrained by concrete headers or sidewalk paving. The headers shall be provided at locations shown on the plans and per the dimensions indicated in the details.

202-2.7.6 Sealer. Paver sealer shall be a sealing and stabilizing material specifically designed for paver application. Sealer shall be ‘Gloss ‘N Guard’ by Prosoco, or approved equal

SECTION 206 - MISCELLANEOUS METAL ITEMS

(ADDITIVE ALTERNATE #A)

Additive Alternate #A - The scope of work for 'Steel Trellis Structure with Structural Columns and Precast Veneers' within the Additive Alternate limits of work shall include all the work related to provide the steel structure complete and in place, including but not limited to the labor, materials, sub-grade preparation, installation, and other requirements as shown on the drawings and as defined in this specification and Section 304.

ADD: 206-5.1.1 Metal Perimeter Fencing and Gates. Ornamental fencing and gates shall be steel fabricated with powder-coat finish to comply with the dimensions as indicated on the drawings and with Section 206-5 ‘Metal Railings’. Fencing and gates shall be comprised of square vertical and horizontal tube steel with complete welds at each interface, all fencing materials shall be 3/32” minimum thickness. Gate posts shall have a minimum 1/4” thickness. Line posts shall have a minimum 3/16” thickness. All welds shall be continuous and ground smooth. Remove all burrs, sharp edges, and imperfections for a smooth surface. Ornamental fencing and gates shall have a manufacturer applied powder-coat ‘Gloss Black’ matte finish. Gates shall also include cane bolt welded to gates and (2) round cane bolt shoes installed in paving. Provide shop drawings and paint color for approval. Installations shall be vandal-proof. All posts shall be embedment mounted into a cast in place concrete footing, size per plans.

206-7 Disabled Parking Sign. Signs shall be fabricated in conformance with the SDRSD M-117 standards for signs.

SECTION 209 - ELECTRICAL COMPONENTS

209-1 REGULATIONS AND CODES. ADD the following:

209-1.1 Description. All park lighting shall be in conformance with the plans, and State, Federal and Local Electric Codes. City of San Diego Park and Recreation Department Consultant's Guide to Park Design and Development Design Manual, 2010.

Work includes, but is not necessarily limited to, providing site power and lighting systems.

209-1.1.1 Complete electrical secondary conduit systems, including all pull and all splice boxes, pads, and other associated components.

209-1.1.2 All conduit and feeder conductors for site work components.

209-1.1.3 All site area lighting, including service and conduit together with related photocells.

209-1.1.4 All required saw-cutting, pavement/concrete removal, and paving repairs, to current City standards.

209-1.1.5 Payment of all permit fees, utility company installation charges, SDG&E service orders, engineering fees, relocation costs, and related charges/utility.

209-1.2 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.

Cutting and/or patching made necessary by failure or delay in complying with these requirements shall be done at no cost to the City, and under the direction of the Engineer.

209-1.3 Utility Company Liaison. Contractor shall contact and review the utility systems as shown on drawing with representatives of the Utility Company. Contractor shall verify requirements regarding services, materials, and other criteria concerning the work.

In addition, Contractor shall coordinate all utility work under this section with water, sewer, gas, and storm drainage lines in the areas, and shall review impacts on these systems with Utility Company Representatives.

209-1.4 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.

209-1.5 Submittals.

209-1.5.1 Materials List. Provide complete materials list of all proposed products, including catalog cuts of manufactured items and splice box dimensions.

209-1.6 Quality Assurance.

209-1.6.1 Manufacturer. 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.

209-1.6.2 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.

209-1.7 Guarantee.

209-1.7.1 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.

209-1.7.2 Warranty. The manufacturers of all products shall warrant all products free of defects for one year from the date of acceptance by the City of San Diego.

209-1.8 Product Handling.

209-1.8.1 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.

209-1.8.2 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 of San Diego.

209-1.9 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.

209-2 PRODUCTS.

209-2.1 Conduit.

209-2.1.1 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.

209-2.1.2 Conduit shall be delivered to site in standard lengths with each length bearing the manufacturer's trademark or stamp and U.L. Labeled.

209-2.1.3 Conduit shall be minimum 3/4 inch or larger in diameter.

209-2.1.4 All conduits shall contain equipment grounding conductors.

209-2.2 Wire.

209-2.2.1 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.

209-2.2.2 Wire coding shall be in accordance with the provisions of Section 210-5 of the latest edition of the National Electric Code.

209-2.2.3 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:

209-2.2.3.1 Feeder conductors and branch circuits: Type THW, 75 Degrees C.

209-2.2.3.2 Fixture wire: Type THHN: XHHW or RHH - minimum 90 degrees C, unless otherwise noted.

209-2.2.4 Acceptable Manufacturers: General Wire and Cable Corp., Rome Cable Division, Okonite Wire and Cable Corporation or approved substitute.

209-2.2.5 All branch circuit conductors shall be labeled with circuit numbers.

209-2.3 CONNECTORS.

209-2.3.1 For wire #10 AWG and smaller provide Buchanan connectors or approved substitute.

209-2.3.2 For wire #8 AWG and larger provide T&B "Lock-Tite" connectors or equal.

209-2.3.3 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.

209.2.3.4 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.

209-2.4 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.

209-2.5 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

209-2.6 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.

SECTION 210 – PAINT AND PROTECTIVE COATINGS

ADD: 210-1.4.1 Wood Trellis Primer Paint. Wood primer shall be compliant with Greenbook and Whitebook specifications for painting.

ADD: 210-1.4.2 Wood Trellis Finish Paint. Paint shall be Frazee #5245A 'Swiss Mocha' dark brown paint to be applied to all wood surfaces prior to assembly on site. Submit samples for review and approval.

Attachment fasteners and hardware shall be primed and painted with two coats of spray polyurethane enamel paint for metals, color to match wood paint color. Submit samples for review and approval.

ADD: 210-6 Anti-Graffiti Coatings. Anti-graffiti coating shall be as manufactured by Monopole Inc. Materials shall be applied as specified below:

- 1st Coat: Aquaseal ME12 (Item 5200) (Clear)
- 2nd Coat: Permashield Base (Item 6100) (Clear)
- 3rd Coat: Permashield Premium (Item 5600 for Clear Matte finish)
- 4th Coat: Permashield Premium (Item 5600 for Clear Matte finish)

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 class "C", existing soil, clean and free of weeds, debris, trash and rocks over 1/2" in diameter to a depth of 15" and meet the horticultural requirements for Class "A" topsoil per section 212-1.1.2 of the Standard Specifications for Public Works.

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 12-12-12 or approved equivalent.

Post-plant fertilizer shall be 14-7-3 or approved equivalent with CA, FE, ZN, and MN and with the majority of nitrogen in non-ammoniac form to prevent acidification of soil.

212-1.2.4 Organic Soil Amendment. ADD the following:

Type 1 organic soil amendment shall be derived from wood with the following properties: it shall be a wood residual product derived from the bark of pine, white fir and red fir, cedar shavings or redwood shavings. Amendment upon analysis contain at least 0.5% nitrogen (on a dry weight basis) with an ash content not to exceed 10%. A commercial grade product shall be used. The product shall be free of seeds, debris and deleterious material.

Contractor shall supply Architect or his appointed representative 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.

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. To paragraph (i), ADD the following:

Mulch shall be type 5 mulch (fir or redwood bark chips) free of weeds, trash and debris. Average dimensions shall be 1" to 2" in length and 1/2" in thickness. Submit two (2) samples for approval by the Resident Engineer/Landscape Architect prior to installation.

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.

It is the goal of this project, that herbicides and pesticides shall not be used on this project site. The project is located within the Chollas Creek drainage area, which is targeted as a pesticide clean up area. In the event that the project Biologist and Resident Engineer determine that a post emergence herbicide is necessary to treat specific weed infestations that would be detrimental to the establishment of the revegetation, a post emergent herbicide may be recommended. 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 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/Project Biologist.

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

212-1.4 Plants.

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

Plants shall be inspected and approved by the Engineer or Architect prior to planting.

All plants shall have a growth habit normal to the species and shall be sound, healthy, vigorous and free from insect pests, 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.

No pruning shall be done prior to review of the plants by the Resident Engineer/Landscape Architect.

Contractor shall notify the Resident Engineer/Landscape Architect a minimum of 48 hours before each plant delivery so the Resident Engineer/Landscape Architect 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.

Nomenclature: The scientific and common names of plants herein specified conform to the approved names given in "A Checklist of Woody Ornamental Plants in, Oregon, and Washington" published by the University of, Division of Agriculture sciences, publication 4091 (1979). (See list of plant materials on drawing.)

Labeling: Each group of plant materials delivered on site shall be identified clearly as to species and variety on weatherproof labels. All patented plants (cultivars) required by the plant list shall be delivered with a proper plant patent attached. There shall be a minimum of one labeled plant for each 5 plants in a lot.

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.

The Resident Engineer/Architect 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 Architect, 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/Landscape Architect 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 Landscape Architect 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.

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 Landscape Architect) 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 rootbound 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.

All container stock (1 gal., 5 gal., 15 gal.) 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 Landscape Architect) 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. be free of weeds, native grasses, Bermuda grass, and Kikuyu grass.
- d. be full and bushy to ground.

Groundcover

- a. Groundcover plants shall be healthy, vigorous, rooted cuttings grown in flats or 1 gallon cans until transplanting. See plant material legend on Drawings.
- b. 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. DELETE the first sentence and ADD 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: 212-1.9 Root Barriers. ADD the following:

Root barriers shall be a long term root control barrier system consisting of 24" height molded recycled plastic panels. Panels must have factory installed independent joiner strips. Barriers must be a minimum of 2 mm (0.90 inches) thick and be made of 50% post consumer High Impact Polypropylene (HIPP). Material must contain U.V. inhibitors to insure longevity. Barriers must have 12 mm (1/2") raised vertical ribs running perpendicular to the panel and be 150 mm (6") on center. Panels shall have a 10 mm (3/8@) wide "T" top edge and an external ground anchoring base flange 3 mm (1/8") in width.

The root barrier shall conform to the following specifications:

Physical Properties	ASTM Test	Typical
Tensile strength, PSI (MPa)	D638	3,600-4200 (25-29)
Ultimate elongation %	D638	12%
Flexural modulus, PSI (MPa)	D790A	150,000 (1034)
Notched Izod Impact, PSI	D256	3.0 @ 70 degrees F

Root barrier shall be Shawtown "EP" series root barrier panels by NDS 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 ADD 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.

Type "K" copper pipe, in accordance with ASTM B 88, shall be used to extend the existing water main at the meter, to the new reduced pressure principle backflow assembly.

212-2.2 Valves and Valve Boxes.

212-2.2.7 Valve Boxes. ADD the following:

All remote control valve boxes and pull boxes shall be rectangular, precast Portland cement concrete with a cast iron locking lid, Christy #B3-3 with B3TL, or approved equivalent.

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. Paint shall comply with Whitebook requirements.

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.

212-2.4 Sprinkler Equipment. DELETE in its entirety and 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 City, 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, the Contractor shall submit in writing to the City a request to deviate from the approved 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 at 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. Conduit shall be galvanized steel or schedule 40 PVC conforming to the applicable provisions of section 209-2.3.

ADD: SECTION 218 - SITE FURNISHINGS

218-1 TREE GRATES.

218-1.1 General. Tree grates material shall be cast gray iron from 100% recycled material. All tree grate castings shall be manufactured true to pattern and component parts, and shall fit together in a satisfactory manner. The castings shall be of uniform pattern and quality, free from blowholes, hard spots, shrinkage, distortion or other defects. Castings shall be cleaned by shot blasting.

218-1.2 Tree Grates Manufacturer. Tree grates, frames and hardware assembly shall be located and furnished as shown on the Contract Drawings. Tree grate assembly shall be the following:

- Product: Model No: OLYMPIAN 60X96 inch RECTANGULAR Model 9636, with 16 inch tree opening, 60x96FCS tree grate frame, ADA compliant, with two 2-1/2" diameter tree staking cut-outs (located 1'-6" clear from center of tree opening to each cut out, centered on frame), and one-piece steel tree-grate frame unit, or approved equivalent.
- Finish: Painted Black enamel finish, slip-resistant, meeting ADA requirements.
- Hardware: Anti-pilfer hardware shall be finished to attach tree grate to frame.
Frames: Frames shall be for standard new construction and have pre-attached anchor tabs prior to delivery to site. Each frame shall be 'cast in place' with new concrete sidewalk, curb and gutters, as indicated on the drawings.
- Manufacturer: IRONSMITH, INC., 41-701 Corporate Way, Unit 3, Palm Desert, CA 92260 (800) 338-4766

218-2 TABLES.

218-2.1 Two-Seat Game Table. Two-seat game tables shall be furnished and installed at locations shown on the Contract Drawings. Two-seat game tables shall be made of recycled materials, and manufactured in the USA. Two-seat game tables shall be the following:

- Model No.: QS-QH3633P(2), Square precast concrete table with game board and two individual seat units; or approved equal.
- Color: C9 'Mission White' integral colored concrete
- Finish: T2-Light Sand Blast: vertical surfaces; T1-smooth: horizontal surfaces;
- Sealer: No manufacturer sealer applied
- Anti-Graffiti: Field applied per Section 210 'Paint and Protective Coatings'
- Attachment: Embedment-mounted (Footings per Contractor)
- Game board: Green/White
- Manufacturer: Quick Crete Products Corp., Inc. (909) 737-6240
731 Parkridge Avenue
Norco, CA 92860
www.quickcrete.com

218-2.1 Four-Seat Game Table. Four-seat game tables shall be furnished and installed at locations shown on the Contract Drawings. Four-seat game tables shall be made of recycled materials, and manufactured in the USA. Four-seat game tables shall be the following:

- Model No.: QS-QH3633FC, Square precast concrete table with game board and four individual seat units; or approved equal.
- Color: P7 'China' integral colored concrete
- Finish: T2-Light Sand Blast: vertical surfaces; T1-smooth: horizontal surfaces;
- Sealer: No manufacturer sealer applied
- Anti-Graffiti: Field applied per Section 210 'Paint and Protective Coatings'
- Attachment: Embedment-mounted (Footings per Contractor)
- No. of Units: (4)

Game Board: Black/White
Manufacturer: Quick Crete Products Corp., Inc. (909) 737-6240
731 Parkridge Avenue
Norco, CA 92860
www.quickcrete.com

218-2.3 Round Game Table. Four-seat game tables shall be furnished and installed at locations shown on the Contract Drawings. Four-seat game tables shall be made of recycled materials, and manufactured in the USA. Four-seat game tables shall be the following:

Model No.: QR-QH60FC, Round precast concrete table with two bench seats and ADA accessibility; or approved equal.
Color: C9 'Mission White' integral colored concrete
Finish: T2-Light Sand Blast: vertical surfaces; T1-smooth: horizontal surfaces;
Sealer: No manufacturer sealer applied
Anti-Graffiti: Field applied per Section 210 'Paint and Protective Coatings'
Attachment: Surface-mounted – epoxy in place
No. of Units: (2)
Game Board: None
Umbrella Hole: None
Manufacturer: Quick Crete Products Corp., Inc. (909) 737-6240
731 Parkridge Avenue
Norco, CA 92860
www.quickcrete.com

218-5 TRASH RECEPTACLES. Trash receptacles shall be Victor Stanley, 'Ironsites' model #SD-42 with enclosed dome lid, side opening, TGIC powder-coat 'Dark Green' standard finish, and plastic liner, or an approved equivalent. Unit shall include high-density 36-gallon plastic inner liner, or approved equivalent. Trash receptacles shall be made of 98% 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 vandal-proof. Contractor shall provide all stainless steel attachment fasteners as required.

218-6 BENCHES. Benches shall provided as shown on the plans and shall be made of 100% recycled materials, and manufactured in the USA. Benches shall be Landscape Forms 'Presidio' series straight bench with back and arms, 7'-0" length, embedment-mount, powder-coated black standard gloss finish, or approved equivalent.

Provide shop drawings and paint color for approval. Attachment shall comply with Manufacturer's recommendations.

PART 3 - CONSTRUCTION METHODS

SECTION 300 - EARTHWORK

300-1 CLEARING AND GRUBBING.

300-1.1.1 General. ADD the following:

Clearing and grubbing shall consist of clearing natural ground surfaces of all trees, shrubs, vegetation and objectionable materials within the limits of construction in accordance with the provisions of Section 300-1, "Clearing and Grubbing," of the Standard Specifications and in accordance with the plans with these Special Provisions and as directed by the Resident Engineer.

Clearing and grubbing shall also include the removal and disposal of all miscellaneous concrete, pavement, pipes, hardware, timber, rubble or any other objectionable material encountered beneath the ground surface as a result of grading or trenching operations connected with the construction of the project improvements.

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

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

Deleterious materials resulting from clearing and grubbing operations shall be hauled away and disposed of at a site obtained by the Contractor.

Provide continuous pedestrian and driveway access within the project area, and as directed by the Resident Engineer.

Minor grading for swales and drainage control.

Sawcutting of concrete and asphalt concrete at joints and construction limits and the removal and disposal of asphalt concrete, base and concrete.

Protection of existing and relocated utility structures prior to and during construction of proposed improvements.

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.

Furnishing and applying water.

Maintenance of project appearance.

Control of water and dewatering during construction.

Clean-up of project upon completion of work.

Adjustment to grade of miscellaneous items such as drainage inlets, utility boxes, valves, manholes, pullboxes, interfering portions of storm drain pipes, posts.

Clear tree roots for 6" below sidewalk, where tree roots are the cause of damages.

The Contractor shall protect all existing structures or facilities which are adjacent to, or fall within, the limits of the work to be done under this contract in accordance with Section 7-9 and 300-1 of the Standard Specifications. This item shall also include those structures and facilities which the plans show or these Specifications indicate to be protected. Any structure or facility to be protected which is damaged as a result of the Contractor shall be repaired or replaced at his cost, to the satisfaction of the Resident Engineer.

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.

All material removed from the site shall be disposed of at the Contractor's expense at a site approved by the Resident Engineer.

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.

300-1.3.1 General. ADD the following:

Section 4216/4217 of the Government Code requires a Dig-Alert identification number be issued at least two (2) working days prior to a "Permit To Excavate" will be valid. For your Dig-Alert identification number, Contractor shall call the following Underground Service Alert, services, and utilities:

Underground Service Alert	1-800-422-4133
Police	531-2000
Streets	527-7500
Drainage	527-7500
Water and Sewer	1-800-422-4133
San Diego Gas & Electric	239-7511
Cable T.V.	236-9251 ext. 5212

300-1.3.2 Requirements. DELETE (a) in its entirety and ADD 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 subgrade or paving materials.

ADD the following:

- (d) 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.
- (e) 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.
- (f) 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.
- (g) 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.

- (h) 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.
- (i) Explosives: Use of explosives will not be permitted.

ADD: 300-1.3.3 Execution.

- (a) Paving: Remove concrete and asphaltic concrete paving as indicated to a depth as indicated.
- (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. It is assumed that an unknown thickness of concrete exists under the asphalt street surface in all of the streets in this project.
- (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 soils are suitable for reuse as fill if free from vegetation, debris, and other deleterious matter.

300-2.9 Payment. DELETE in its entirety and ADD 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 subgrades and final grades as shown on the plans and as specified and as directed by the Resident Engineer.

The contractor shall be required to prepare their own earthwork for bidding and construction purposes. Any reference to earthwork quantities on the plans is strictly for bonding purposes and shall not be used by the contractor for a price basis. No additional compensation for excavation, embankment, import, or export of material shall be allowed.

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 to achieve the subgrades and final grades as shown on the plans and as specified and as directed by the Resident Engineer.

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.

The above conditions shall also apply to the final finish grade at the time of project completion.

The surface of all areas to be planted or seeded shall be completely free of loose rocks and clods larger than two (2) inches in their largest dimension, and all weeds or debris shall be removed from the site.

SECTION 301 - TREATED SOIL, SUBGRADE PREPARATION AND PLACEMENT OF BASE MATERIALS

ADD: 301-2.5 Class II Aggregate Base. Aggregate Base shall conform to Section 200-2.2 and the following specifications. Class II Aggregate Base shall be free from deleterious matter and of such nature that it can be compacted readily under watering and rolling to form a firm, stable base. The coarse material (material retained on a No. 4 sieve) shall consist of material of which at least 25% by weight and shall be crushed particles as per California Test 205.

The percentage composition by weight of aggregate base shall conform to the following grading when determined by Test Method California 202, modified by Test Method California 905 when there is a difference in specific gravity of 0.2 or more between the coarse and fine portions of the aggregate or between blends of different aggregates.

<u>SIEVE SIZES</u>	<u>PERCENTAGE PASSING.</u>
1 1/2"	100%
3/4"	90-100%
3/8"	50-80%
No. 4	35-55%
No. 30	10-30%
No. 200	2-9%

The aggregate base shall also conform to the following quality requirements:

<u>TEST</u>	<u>REQUIREMENTS</u>	
Resistance (R-Value),	CA 301	78 Min.*
Sand Equivalent, CA. 217	28 Min.	
Durability Index, CA	229	-3S Min.**

*The R-Value requirement may be waived provided the individual test result of the aggregate base conforms to the specified grading and durability and has a sand equivalent of 55 or more, except that the R-Value requirement will not be waived for aggregates which have been treated with lime, cement, or other chemical material.

**The aggregate shall not be treated with lime, cement or other chemical material before the Durability Index Test is performed.

Placement shall conform to Section 301 of the Standard Specifications.

Payment for Class II Aggregate Base shall be at the contract unit price per cubic yard and shall include full compensation for furnishing all labor, materials, equipment and incidentals necessary to perform the work as specified in the Standard Specifications, these Supplemental Provisions and as directed by the City Engineer.

Areas to receive Class II Aggregate Base as structural section required for Concrete Pavers shall be included in the contract unit price for 'Concrete Pavers'.

SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

303-4.1.5 Measurement and Payment. ADD the following:

Payment for Block Seat wall with Tile Veneer and Cap shall be measured by the lineal foot and included in the lump sum price paid for Block Seat wall with Tile Veneer and Cap and shall include the excavation, complete structural section, reinforcing, sub-grade preparation compaction and all specified finishes, materials, labor and incidentals, complete and in place and as required to complete the work and no additional compensation will be made therefore.

Payment for Precast Concrete Pilasters shall be included in the lump sum price paid for all work related to the construction of Precast Concrete Pilasters including the excavation complete structural section, reinforcing, sub-grade preparation, compaction, installation, and all materials, specified finishes, adhesives, sealants, concrete, labor and incidentals, complete and in place and as required to complete the work and no additional compensation will be made therefore.

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

303-5.5 Finishing.

303-5.5.3 WALK. DELETE in its entirety and ADD 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.

Following placing, the concrete shall be screeded to the required grade, tamped to consolidate the concrete and to bring a thin layer of mortar to the surface, and floated to a smooth, flat, uniform surface. The concrete shall then be edged at all headers, given a preliminary troweling and provided with weakened plane joints.

Walk shall be steel troweled to a smooth and even finish. All formed edges shall be rounded to a radius of 1/4 inch. Edges at expansion joints shall be rounded to a radius of 1/8 inch. Preliminary troweling may be done with a long handled trowel or “Fresno”, but the finish troweling, shall be done with a hand trowel. After final troweling, walk on grades of less than 6 percent shall be given a fine-hair-broom finish applied transversely to the centerline. On grades exceeding 6 percent, walk shall be finished by hand with a wood float. Walk shall be remarked as necessary after final finish, to assure neat uniform edges, joints, and score lines.

Scoring lines, where required, shall have a minimum depth of 1/4 inch and a radius of 1/8 inch. When longitudinal scoring lines are required, they shall be parallel to, or concentric with, the lines of the work. Walks 20 feet or more in width shall have a longitudinal center scoring line. In walk returns, one scoring line shall be made radially midway between the BCR and ECR. When directed by the Engineer, longitudinal and transverse scoring lines shall match the adjacent walk. The Contractor shall have sufficient metal bars, straightedges, and joint tools on the project.

Headers shall remain in place for at least 16 hours after completion of the walk but must be removed before the Work is accepted.

If the continuous sidewalk length equals a block or more, the name of the contractor, together with the year in which the improvements are constructed, shall be stamped therein to a depth of 1/4 inch in letters not less than 3/4 inch high, at a location determined by the Engineer. After final troweling all walk surfaces shall receive a uniform medium broom finish 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 curbing, and ADA access ramps shall be included in the lump sum price for 'street paving improvements' and shall include the complete structural section, reinforcing, subgrade preparation, compaction and all specified finishes, admixtures, sealants.

303-7 COLORED CONCRETE.

303-7.1 General. DELETE in its entirety and ADD the following:

Colored concrete shall be produced by Method B as specified below. The Contractor shall provide a sample in the Work for each color specified of a size satisfactory to the Engineer. The sample shall be inspected and approved by the Engineer before proceeding with the Work.

Provide a minimum 3'x3' sample panel, on-site, of each of the colors and finishes to be used in the installation on identical surfaces for approval by Resident Engineer with coordination by the Landscape Architect a minimum of one week prior to construction of the colored concrete work. The approved samples shall remain on-site and shall serve as a basis of comparison for all colored concrete work.

303-7.4 Curing. DELETE in its entirety and ADD the following:

Colored concrete shall be cured with a liquid curing compound in matching color and complying with the requirements of ASTM C 309. The curing compound shall be applied in accordance with approved manufacturer's printed instructions. Curing with clear, white-pigmented or fugitive-dye curing compounds or with plastic or other waterproof membranes will not be allowed. Apply the cure or finish coat by airless sprayer at the rate of 300-400 square feet per gallon (7-10 m⁵/L) when the concrete is hard enough to walk on gently without marring, surface moisture has evaporated, and no condensation can occur.

Protect the coated surfaces from damage by other trades and traffic. Verify slip resistance equivalent to standard City Sidewalk.

303-7.5 Measurement and Payment. To the City Supplement, ADD the following:

Payment for Colored Concrete curb items shall be measured by the cubic yard and included in the lump sum price paid for Concrete Interlocking Pavers and shall include the complete structural section, reinforcing, sub-grade preparation compaction and all specified finishes, admixtures, sealants, concrete, labor and incidentals, complete and in place as required to complete the work and no additional compensation will be made therefore.

ADD: 303-9 ARCHITECTURAL CONCRETE PAVING INSTALLATION.

303-9.1 Subgrade. Sub-grade to meet requirements of project's soils report. Ensure that a minimum 2-inch layer of graded washed concrete sand compacted to 95 percent relative compaction is placed over Class II aggregate base per section 301-2.5, prior to placing concrete. Screed sand to a smooth plane. Ensure that utilities, including irrigation lines are buried and compacted below bottom of sand layer. Keep sand damp prior to placing concrete.

303-9.2 Forming.

- A. Be responsible for design and engineering of form work as well as its construction.
- B. Ensure that Work conforms to recommended practice for concrete form work (ACI 347), latest edition.
- C. Do not exceed 20-feet by 20-feet in a formed construction area.

- D. Ensure that form lumber is new #2 or better grade wood. Do not use used form lumber.
- E. Perform form layout with a digital electronic transit for line layout accuracy.
- F. Allow forms to remain in place long enough to allow concrete to set properly. Remove forms when appropriate.

303-9.3 Design of Mixes and Proportioning. Proportion and mix of cement, aggregate, admixture and water to attain required plasticity and strength in accordance with current edition of ACI Manual of Concrete Practice and PCA "Design and Control of Concrete Mixtures." Concrete mixtures to be designed by an approved commercial testing laboratory, using approved materials to obtain specified minimum compressive strength.

Concrete Mix Criteria:

1. Slump: minimum of 4 inch, max 5-inch, with a 1/2-inch slump differential between successive batches. Obtain approval from Owner's Authorized Representative if slump is outside these parameters.
3. Minimum PSI Rating at 28 days: 3,000
4. Cement quantity per yard of mix:
 - a. Minimum: 6 sacks.
 - b. Maximum: 7 sacks.
5. Water/cement ratio: 0.55 – 0.65.
6. Sand: 50% of total mix.
7. Coarse aggregates to be a blend of 1" to 3/8".
8. Admixtures:
 - a. Air entrainment: Per local standards
 - b. Shrinkage Reducing: Do not exceed 2% by weight of cement.
9. Fly ash: ASTM C618 – Type F.
10. Non-Chloride Accelerators: Do not use corrosive accelerators such as calcium chloride.
11. Concrete Delivery: Use of concrete loads exceeding 90 minutes from time of batch plant must be approved by Owner's Authorized Representative.
12. Ensure that batch plant guarantees single source supply for cement, sand, and aggregate for the entire project.

Custom Architectural Cast-in-Place Concrete mixes are based on custom samples created by T.B. Penick & Sons, Inc. The custom mix designs involve different Architectural Cast-in-place Lithocrete finishes as indicated in Drawings and Specifications. Exact match to the referee samples is required.

303-9.4 Lithocrete® Surface-Seeded Aggregate Installation. (ADDITIVE ALTERNATE #B)

Additive Alternate #B - The scope of work for Lithocrete concrete paving shall include all the work related to provide the paving complete and in place, including but not limited to the labor, materials, formwork, sub-grade preparation, installation, and other requirements as shown on the drawings and as defined in this specification section and Sections 201-1.7 and 303-9 'Architectural Concrete Paving Installation'.

Lithocrete® is a patented paving process. Installation of Lithocrete® surface-seeded aggregate must be performed by a licensed Lithocrete® installer.

Contact Lithocrete® at 800-899-9921 for a licensed Lithocrete® installer in project area.

Lithocrete® is to be installed in accordance under one or more U.S. Patents 5,794,401; 5,887,339; 5,950,394; 6,016,635; 6,033,146; 6,082,074; 6,112,487; 7,322,772; 7,493,732; 7,607,859; 7,614,820; 7,670,081; 7,781,019 and U.S. Trademarks #1,879,329, # 2,358,183 # 2,358,054.

Lithocrete finish matching T.B. Penick Samples #CHSMP-A

Lithocrete® process incorporates use of following patented products:

- a. Lithocrete® Conditioner™.
- b. Lithocrete® Etch Retarder®.
- c. Lithoseal™ paving sealer.
- d. Lithocrete® vibrating float process – use U.S. Patent #6,016,635
- e. Lithocrete® power trowel process – use U.S. Patent #6,016,635

303-9.5 Jointing. Refer to ACI 302 “Guide for Concrete Floor and Slab Construction” for work under this section.

Construction and Contraction Joints:

1. Sawcut construction and contraction joints in locations indicated on Drawings.
2. Perform jointing with a new diamond tip circular saw.
3. Joint Width: Per Drawings. Do not exceed 3/16-inch in width.
4. Depth of sawcuts: 1/4th depth of slab.
 - a. Decorative Sawcut Joints: Per Drawings.
5. Sawcut joints in a straight line with no overcutting.
6. Use a hand tool to sawcut up to vertical edges such as walls, steps, curbs and columns. No cutting into vertical surfaces will be allowed.

Isolation Joint Caulking:

1. Install isolation joint caulking to be installed under Section 07900 – Joint Sealers.

303-9.6 Curing. After Lithocrete® aggregate exposure, cure concrete for a minimum of seven (7) days (or longer) without foot traffic and a minimum of thirty (30) days or longer without vehicular traffic for all Architectural Cast-in-place areas. If a curing compound is required, refer to Section 2.12 of this specification for acceptable curing compounds for use with Lithocrete. Contractor shall verify these suggested time frames and shall coordinate this schedule with other related construction.

303-9.7 Sealing. Seal surface of paving using Lithocrete® Sealer or HLQ 125. The application of hydrolyzed alkali silica solution inhibits the chemical reaction and resulting derogation inherent with seeding glass or organic materials such as sea shells and metals into concrete. Follow Lithocrete® Sealer directions when applying this product (sealer must be applied in 3 to 6 coats).

303-9.8 Measurement and Payment. ADD the following:

Payment for architectural concrete paving shall be measured by the square foot and included in the payment for “Lithocrete” bid item and shall include the complete structural section, reinforcing, sub-grade preparation, compaction and all specified finishes, topseeding materials, admixtures, sealants, concrete, labor, and incidentals, complete and in place as required to complete the Work and no additional compensation will be made therefore.

**Lithocrete Form
City Heights Square Mini Park**

**REQUIRED ARCHITECTECTURAL CAST-IN-PLACE CONCRETE SUB-CONSULTANT
INFORMATION**

The proper installation of specialty concrete finishes such as Lithocrete® is critical to the success of the project. The bidder, or the bidder’s subcontractor, shall have a minimum of one (1) Lithocrete® project installed of similar size and quality (256 square feet).

I. LITHOCRETE INSTALLER

- Contractor: _____
- Project Manager/Foreman: _____
- Phone Number: _____

II. COMPARABLE PROJECT LIST (PROVIDE MINIMUM OF 5)

1. Project Name: _____
Address: _____
Name of Contact: _____
Phone Number: _____

2. Project Name: _____
Address: _____
Name of Contact: _____
Phone Number: _____

3. Project Name: _____
Address: _____
Name of Contact: _____
Phone Number: _____

4. Project Name: _____
Address: _____
Name of Contact: _____
Phone Number: _____

5. Project Name: _____
Address: _____
Name of Contact: _____
Phone Number: _____

Provide two (2) color photos, 8”x10” in size, of each installation listed above. Photo No. 1 shall show the approximate size of the installation. Photo No. 2 shall be taken approximately 2 to 3 feet from the respective paving surface. Photos shall clearly show the detail associated with the Lithocrete® finish or the photo(s) will be rejected. The bidder shall submit the above information along with the color photos within 10 days of Bid opening. Failure to submit the information and photos as outlined shall be considered a non-responsive bid and therefore the bidder shall be considered non-responsive.

Signature of Bidder _____

Date _____

ADD: 303-10 CONCRETE INTERLOCKING PAVERS INSTALLATION. (ADDITIVE ALTERNATE #C)

Additive Alternate #C - The scope of work for Concrete Interlocking Pavers within the Additive Alternate limits of work shall include all the work related to provide the pavers complete and in place, consistent with the proposed surrounding plaza pavers, including but not limited to the labor, materials, sub-grade preparation, installation, and other requirements as shown on the drawings and as defined in this specification and Section 202-7.

303-10.1 Examination. Contractor and/or Architect/Engineer must certify that sub-grade preparation, compacted density and elevations conform to the specifications. Compaction of the soil sub-grade to at least 98% Standard Proctor Density per ASTM D 698 is recommended. Stabilization of the sub-grade and/or base may be necessary with weak or saturated sub-grade soils. The Contractor and/or Architect/Engineer should inspect sub-grade preparation, elevations and conduct density tests for conformance to specifications.

Contractor and/or Architect/Engineer must verify that geotextiles, if applicable, have been placed according to specifications.

Contractor and/or Architect/Engineer must verify that aggregate base materials, thickness, compaction, surface tolerances, and elevations conform to the specifications.

Contractor and/or Architect/Engineer must verify base is dry, uniform, even and ready to support sand, precast concrete paving units, and imposed loads.

Installing the bedding sand and precast concrete paving unit installation constitutes acceptance of base and concrete band installation.

303-10.2 Installation – General. Installation shall comply with requirements of applicable building codes and state and local jurisdictions.

Spread the bedding sand evenly over the base course and screed to a nominal 1 in. thickness. Do not exceed 1-1/4" thickness.

Lay the precast concrete paving units on top of compacted sand in the pattern as defined on the drawings. Maintain straight pattern lines. Use of 1/16" x 1" X 4" plastic "T" spacers to maintain consistent joints is strongly recommended. Place spacers flush with bottom edge of pavers. Specially-designed Narrow Modular Paver spacers available through Stepstone, Inc.

Use low amplitude, high frequency plate vibrator to compact the Narrow Modular pavers into sand bed. Provide separation layer (plywood) between hard plate of vibrator and paver surface to avoid damaging paver surface.

Joints between the pavers at the top of paving surface shall be 1/16 in. wide. Note: Recommended minimum spacing at bottom of pavers is 1/16". See section above for spacer information.

Fill joints with polymeric sand per manufacturer's recommendations.

303-10.2.1 Cleaning. Clean exposed surfaces of precast concrete paving units. Use cleaners appropriate for precast concrete finishes and colors. Acid based cleaners will alter finish and color.

303-10.2.2 Sealing. Contractor shall apply two coats of 'Gloss 'N Guard' by Prosoco, over all concrete unit pavers after joint sand applications and cleaning. Apply per manufacturer's recommendations.

303-10.2.3 Completion. Protect precast concrete paving units from damage due to subsequent building operations. After installation and before completion, inspect precast concrete paving units for construction damage and obtain new precast concrete paving units if required. Immediately prior to final acceptance of project, clean precast concrete paving units.

303-10.3 Measurement and Payment. Concrete Pavers shall be measured by the square foot and included in the payment for 'Concrete Pavers' and shall include all services, labor, materials, transportation and equipment necessary to furnish and place sand laying course; furnish and install interlocking concrete pavers 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.

(ADDITIVE ALTERNATE #C)

Concrete pavers for Additive Alternate #C shall be measured by the square foot and paid b the lump sum price for 'Additive Alternate #C' and shall include all service, labor, materials, transportation and equipment necessary to furnish and place sand laying course; furnish and install interlocking concrete pavers 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.

303-11 PRECAST CONCRETE POST VENEER INSTALLATION.

303-11.1 Upon completion steel structural columns, the contractor shall prepare and place the post veneer footings to receive the precast concrete post veneers. Post veneer footings shall be installed level and free of any obstructions. Post veneers shall be installed around columns and attached by bolting to metal tabs.

Subsequent units shall be installed around column and set on preceding units. Joint shall be caulked or glued. When all units have been installed, Contractor shall clean all surfaces and protect with plastic sheeting.

Column veneer installation shall be completed prior to concrete paver installation.

303-11.2 Measurement and Payment. ADD the following:

Payment for round precast concrete post veneers shall be measured by the unit and included in the lump sum price paid for 'Steel Trellis' and shall include all work required for providing materials, including labor, tools, equipment, incidentals and materials including concrete, reinforcing, formwork, footings, welding, attachments, erection, delivery, sub-grade preparation, compaction, etc. for doing all the work in providing Additive Alternate "A" 'Steel Trellis' complete and in place, in accordance with these specifications.

Payment for square precast concrete post veneers shall be measured by the unit and included in the lump sum price paid for 'Wood Trellis' and shall include all work required for providing materials, including labor, tools, equipment, incidentals and materials including concrete, reinforcing, formwork, footings, welding, attachments, erection, delivery, sub-grade preparation, compaction, painting, etc. for doing all the work in providing 'Wood Trellis' complete and in place, in accordance with these specifications.

SECTION 304 – METAL FABRICATION AND CONSTRUCTION

(ADDITIVE ALTERNATE #A)

Additive Alternate #A - The scope of work for ' Steel Trellis Structure with Structural Columns and Precast Veneers' within the Additive Alternate limits of work shall include all the work related to provide the steel structure complete and in place, including but not limited to the labor, materials, sub-grade preparation, installation, and other requirements as indicated on the drawings and as listed in this specification and Section 206.

304-2.1.3 Installation. ADD the following:

At locations immediately adjacent to precast pilasters, contractor shall oversize pilaster footings in depth and width to allow for core drilling and mortaring fencing into footing.

Fence posts shall be spaced according to plans. For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade. Fence panels shall be attached to posts with brackets supplied by the manufacturer. Posts shall be set in concrete footings per plans. Sloping grade shall be accommodated by racking the fence panel installation to result in a uniformly sloped top rail from corner post to corner post of the entire fence installation. Use stringlines as needed to maintain uniform slope to achieve this result. Fence installations that exhibit an “up and down” top rail line alignment will not be accepted.

When cutting/drilling rails or posts adhere to the following steps to seal the exposed steel surfaces; 1) remove all metal shavings from cut area. 2) Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry. 3) Apply 2 coats of custom finish paint matching fence color. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray.

304-2.1.3.1 Entry Gates Fabrication. The widths of gates to be installed will be as indicated on the Plans and in the Specifications.

Gates shall be fabricated and reinforced by welding. All welds shall be continuous and ground smooth prior to application of powdercoat finish. Gates shall be hung by at least three steel hinges, welded directly to the gate posts. Gates shall also include cane bolt and (2) round bolt shues to be affixed to pavement at the opened and closed positions. Cane bolts and shues shall be steel with powdercoat finish to match.

304-2.1.3.1 Installation. Gate posts shall be spaced according to the manufacturers’ gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles. The manufacturers’ gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacturer of the gate and shall be installed per manufacturer’s recommendations. Hardware shall be vandalproof. Submit all hardware for review and approval.

304-2.1.4 Measurement and Payment. ADD the following:

Six foot metal perimeter fencing shall be measured by the lineal foot complete and in place, deducting the widths of gates and openings. Gates will be paid for at the Contract unit price for each size of gate required on the plans, which price shall include full compensation for furnishing the gates together with all necessary fittings, hardware, concrete footings, and doing all the work involved in installing the gate complete in place. If double gates are required, each double gate will be paid for at the Contract Unit Price and such unit price shall include furnishing and installing both leaves.

304-5 PAYMENT. To the City Supplement, ADD the following:

The payment for all structural footings and metal fabrications for wood trellis and entry arch, including all concrete, reinforcing, welding, bolting, attachments, excavations, formwork, labor materials and all incidentals shall be included in the payment for “Wood Trellis” bid item and included in the base bid and no additional payment allowed therefore.

The payment for Additive Alternate #A - 'Steel Trellis Structure with Structural Columns and Precast Veneers' shall include structural footings and metal fabrication for steel trellis, including all concrete, reinforcing, welding, bolting, attachments, excavations, formwork, labor materials and all incidentals shall be included in the respective 'Additive Alternate #A' bid item and no additional payment allowed therefore.

SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

ADD: 306-9 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.

ADD: 306-10 WATER METERS AND SERVICES.

306-10.1 General. 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 at 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. All cost associated with coordination, processing, and obtaining services shall be included in the lump sum price.

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 and shall be included in the lump sum price. The contractor shall be required to pay all City water, sewer, capacity, and wet tap installation fees.

SECTION 308 -LANDSCAPE AND IRRIGATION INSTALLATION

308-1 General. ADD the following:

During installation Contractor shall observe safe practices in accordance with the Standard Specifications, and all appropriate Federal, State and Local Laws concerning safe job practices.

Contractor shall install a temporary water supply from an approved source to irrigate the existing trees during construction, as outlined in section 308-4.9.5 of the specification addenda.

308-2 EARTHWORK AND TOPSOIL PLACEMENT.

308-2.2 Trench Excavation And Backfill. ADD the following:

Backfill in all trenches shall be flooded and compacted in accordance with Section 306-1.3.2 and Section 306-1.3.3.

Wherever possible joint trenches shall be used for irrigation pipe and control wires. Backfill of all trenches under streets shall be with a Sand-Cement Slurry (Concrete Class 100-E-100).

308-2.3.1 General.

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 City 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 melitensis*), 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/Project Biologist (Restoration Ecologist) shall inspect the site prior to planting and during revegetation. 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/Project Biologist (Restoration Ecologist). 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. To 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.

To Paragraph 2, REVISE to read as follows:

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.

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/Landscape Architect 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 Landscape Architect. Analysis shall include recommendations for amending or correcting soil conditions. Results of soil analysis shall be received by Landscape Architect 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 planting areas, 3:1 or less in steepness, shall be thoroughly tilled and loosened to a depth of fifteen (15) inches by approved method.

All 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 planting 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 planting areas 3:1 or less in steepness:

Soil conditioner (Type 1)	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 ten (10) 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.

- 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., thirty (30) days after planting and once again at the end of the post-construction maintenance period, except in creek restoration areas.

308-2.4 Finish Grading. To 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.

To Second Paragraph, REVISE to read as follows:

The finish grade below adjacent paving, curbs or headers shall be 12.5 mm (1/2 inch) in lawn areas and 25 mm (1 inch) in shrub or groundcover areas.

To Last paragraph, ADD the following to the beginning of the paragraph:

After blending soil amendments and fertilizers into soil; water and allow soil to settle to provide a stable base.

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.

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.

The irrigation system shall be installed, pressure tested, coverage tested and operational prior to planting, with the exception of large specimen planting that must be planted prior to other operations as approved by the Resident Engineer.

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 / Landscape Architect. 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 / Landscape Architect 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 confer with the Landscape Architect and 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, and/or designated representative, will 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 \$105/hour or fraction of hour.

It is in the Contractor's interest to have the Resident Engineer (or designated representative) 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 City's Landscape Inspector 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 the Project Special Technical 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 Architect prior to the delivery of any plant materials. Any plants determined by the Architect 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.

308-4.5 Tree and Shrub Planting. To First sentence, ADD the following:

Any plant with a broken or cracked root ball before or during planting shall not be planted.

Fourth sentence: ADD the following:

All desert plants as indicated on the plans shall be backfilled with a prepared soil mix consisting of 60 percent of the specified topsoil, 10 percent Type 1 organic soil amendment, and 30 percent clean, washed, course sand.

ADD: 308-4.5.1 Root Barriers. Materials shall be delivered and stored in accordance with Section 4 of the Standard Specifications. Avoid prolonged exposure to direct sunlight and high temperatures. Material shall be handled in accordance with manufacturer's instructions.

Connect panels together to required length. The panels shall be laid in a continuous barrier without gaps. Panels shall be connected by means of a locking strip provided for this purpose by the root barrier manufacturer.

Install root barrier against edge of all paving adjacent to planting areas within 10' of tree trunks measured perpendicular to curb. A minimum 4" wide trench shall be excavated to the depth of root barrier. Insert barrier to bottom of trench and place it against the side of trench adjacent to concrete with the "ribs" or root guides faced toward the root ball. Top edge shall be 3" below grade of concrete structures.

Backfill, removing all adverse materials such as large rocks, severed roots, broken pipes, etc. Tamp soil gently and firmly into place as backfilling is accomplished to prevent soil settling. Avoid collapsing or distorting the barrier when backfilling.

Payment for root barriers shall include all labor, materials, equipment and all incidentals necessary to provide a complete installation.

308-4.6 Plant Staking and Guying.

308-4.6.1 Method A Tree Staking (Single Stake). DELETE in its entirety and ADD the following:

The tree shall be staked with the type and length of stake specified on the plans or in the Special Provisions. The stake shall be placed at the windward side of the tree and positioned adjacent to the root ball. The stake shall be vertical and driven 300 mm (12 inches) into undisturbed soil. The trunk shall be secured to the stake with one tie just below the head of the tree. The tie shall be the approved tree tie. The loop shall be 25 mm (1 inch) greater in diameter than the trunk. The tie shall be attached to the pipe through a hole drilled at the tie location described above.

Payment for tree staking shall be included in the unit price paid for trees and no separate payment will be allowed therefore.

308-4.6.2 Method B Tree Staking (Double Stake). DELETE in its entirety and ADD 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 addenda 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 unit price paid for trees and no separate payment will be allowed therefore.

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

All boxed trees over 36" box shall be guyed. Guying shall be done immediately after planting. Three guys per plant shall be installed in accordance with the following:

- 1) Each guy shall be secured to the appropriate main branch by a twisted loop of No. 12 BWG galvanized iron wire housed in garden hose.
- 2) Each guy shall be anchored to a driven stake located at a horizontal distance from the tree equal to the vertical distance from ground to the connection of guy wire on the tree branch.
- 3) Each guy shall be covered with highly visible garden hose or plastic tubing to a height of 1.8 m (6 feet) above grade.
- 4) Slack in each guy shall be removed by hand so as not to bend or twist the plant.

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

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

To Paragraph 3, REVISE first sentence to read as follows:

Each plant shall be planted with its proportionate amount of container soil to minimize root disturbance. Soil moisture shall be such that the soil does not crumble when removing plants.

To Paragraph 4, REVISE second sentence to read as follows:

A layer of the specified mulch shall be spread over the planted areas to the depth specified in the plans.

308-4.9.3 Seeding and Mulching. DELETE in its entirety and ADD 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.

308-5 IRRIGATION SYSTEM INSTALLATION.

308-5.1 General. To Third paragraph, REVISE as follows:

Utility connections shall be as shown on the plan or designated by the utility company. The Contractor shall include in its bid, all costs for such utility connections shown on the plans or designated by the utility company.

ADD the following:

Materials shall be delivered and stored in accord with section 4 of the standard specifications.

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 P.O.C. 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.

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. ADD the following:

To Fourth paragraph, ADD the following:

All assemblies shall be assembled as specified and in accordance with the manufacturer's directions.

Changes in pipeline size shall be accomplished with reducer fittings.

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 W-17, W-18, W-19, and SDW-100, 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.

308-5.2.2 Steel Pipeline. DELETE in its entirety and ADD the following:

Ends of pipe shall be cut square and reamed to full size with a long taper reamer.

Threads shall be cut with clean, sharp dies and shall conform to American Standards Association Specification B2.

Joints shall be made with a non-toxic non-hardening joint compound or Teflon tape applied to the male threads only.

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

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

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

308-5.3 Installation Of Valves, Valve Boxes, And Special Equipment. To Second paragraph, DELETE last sentence.

To Seventh paragraph, ADD the following:

Backflow preventers shall be provided with pipe supports and the accessories necessary to properly secure the assembly.

To Eighth paragraph, ADD the following:

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.

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. To Second paragraph, ADD after first sentence, the following:

Each controller shall have a power ON/OFF switch, with lock-out, tag-out capability.

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

To Seventh paragraph, ADD the following:

The minimum insulation resistance to the ground shall be 50 megohms. Any wiring not meeting this requirement shall be replaced. In multiple controller installations, the common control wires shall be separate for each controller. No 110-volt wire runs shall pass from controller to controller.

Each installed remote control valve shall be coded to its parent controller in the same numerical sequence as indicated on plans.

Each installed remote control valve shall be coded to its parent controller in the same numerical sequence as indicated in Section 212-3.2.1.

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

To Eighth paragraph, ADD the following:

A reduced "as-built" irrigation plan, color coded by stations and laminated in plastic, shall be submitted to the Resident Engineer and upon approval, mounted on the inside of controller for use by maintenance personnel. The "as-built" plan shall be in accordance with Section 308-5.7 of these Special Provisions.

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. To First paragraph, 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. After flushing, the following tests shall be conducted in the sequence listed below. All equipment, materials and labor necessary to perform the tests shall be furnished by the Contractor and all tests shall be conducted in the presence of the Engineer.

308-5.6.2 Pipeline Pressure Test. ADD the following:

Pressure mains shall be tested with all control valves open and outlet side of valves capped. After the pressure main test, all valves shall be opened to test lateral lines

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.

To First paragraph, last sentence, REVISE to read as follows:

Pressure mains shall be tested for 4 hours at 125 psi; Non-pressure laterals shall be tested for 2 hours at 100 psi.

ADD the following:

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.

Coverage test and adjustment: when system is complete, and prior to planting, the Contractor shall perform a coverage test in the presence of the Resident Engineer. Contractor shall be responsible for amending inadequate coverage to the satisfaction of the engineer.

ADD: 308-5.12 As-built Plans (Record Drawings). Before final acceptance of work, the Contractor shall provide a record set of drawings showing the irrigation system work. Information shall be on clean, full size blueprints of plans. Lettering shall be one quarter (1/4) inch height. All items changed/relocated from original drawings shall be so indicated with the same symbol in the new location. All notes/call outs pertaining to the item shall be directed to new location. All work shall be neat, indicated in red ink and subject to the satisfaction of the Resident Engineer.

All valves shall be numbered by station and corresponding numbers shall be shown on the record drawings. Contractor shall provide Owner with a wiring diagram of each power circuit and control panel that corresponds to each irrigation controller supplied.

All main lines, lateral lines, sleeves, flow sensors, master control valves, remote control valves, shut-off valves, quick coupling valves, and controllers shall be located by measured dimensions, to the nearest one-half foot. Dimensions shall be given from permanent objects such as sidewalks, curbs, walls, structures and driveways.

Reduced set: In addition to full size record drawings and prior to final acceptance of work, the Contractor shall prepare and mount a reduced, clear plastic encased, waterproof color-coded chart showing the valves, mainline, and systems serviced by that particular controller. All valves shall be numbered to match the operation schedule and the drawings. Only those areas controlled by that controller shall be shown. This chart shall be a plot plan, entire or partial, showing building, walks, roads and walls. A photostatic print of this plan, reduced as necessary and legible in all details, shall be made to a size that will fit into the controller cover. This print shall be approved by the Resident Engineer and shall be hermetically sealed by plastic. This shall then be secured to the back of the automatic controller enclosure door.

The Contractor shall keep on the site at all times, a current record set of the plans.

Immediately upon the installation of any buried pipe or equipment, but prior to any backfilling of trenches, the Contractor shall indicate on the record set of drawings the locations of said pipe or equipment. All changes in direction of main line or lateral lines and all sleeves shall be noted on plans with size and depth.

Record drawings shall be signed and dated in red ink by the Contractor attesting and certifying the accuracy of the record drawings. Contractor shall also include Contractor company name, address and phone number on record drawings.

ADD: 308-5.13 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.

ADD: 308-5.14 Extra Equipment. Contractor shall provide to the Owner:

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.

308-6 MAINTENANCE AND PLANT ESTABLISHMENT. To Fifth paragraph, REVISE 30 to 90 Calendar days.

308-7 GUARANTEE. ADD the following:

All fifteen (15) gallon and larger trees installed under the contract shall be guaranteed to live and grow for one (1) year from the date of final acceptance of the contract work unless decline of plant is specifically attributable to causes unrelated to installation, plant material quality and Contractor's maintenance practices.

All other plant material, including ground covers, shall be guaranteed to live and grow for a period of ninety (90) days from the date final acceptance of contract work unless decline of plant is specifically attributable to causes unrelated to installation, plant material quality and Contractor's maintenance practices.

Any material found to be dead, missing or in poor condition during the post-construction maintenance period, shall be replaced immediately. The Resident Engineer shall be the sole judge as to the condition of the material. Material found to be dead or in poor condition within the guarantee period shall be replaced by the Contractor, at his expense, within fifteen (15) days of written notification. Replacement shall be made to the same specifications required for the original plantings.

Should the Contractor fail, during the guarantee period, to expeditiously correct a defect upon written notification by the City or owner, the City or owner shall cause the work to be corrected and bill the actual costs incurred to the Contractor. Defect corrections shall include the complete restoration of existing improvements that were damaged as a result of the defect.

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 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.

ADD: 314 – STREET SIGNAGE

314-1 REMOVE AND REPLACE SIGNAGE. All existing street signage mounted on existing light poles shall be documented, carefully removed, and mounted on the proposed light pole to the satisfaction of the Engineer. Payment for relocating signs shall be included in the contract lump sum price for street light electrical system.

314-2 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.

ADD: 315 - SITE FURNISHINGS INSTALLATION

315-1 TREE GRATE INSTALLATION. Tree grates setting drawings, diagrams, templates, instructions, and directions for installation of anchorage, such as concrete inserts, frame anchor tabs or bolts and items having integral anchors, which are to be embedded in concrete or masonry construction. Coordinate delivery of such items to project site.

Tree grates shall be located where shown on the plans. Install tree grates in accordance with manufacturer's instructions and recommendations. Install furnishings plumb, accurately and in the correct orientation and relationship with the concrete paving as shown on the drawings.

Install tree grate frames integral with adjacent concrete and coordinate installation with installers of adjacent materials. Bolting for frame at curb and gutter shall be a minimum of 1.5" below the line of gutter.

Component parts of the tree grate assembly shall fit together plumb and secure in a manner satisfactory to the Engineer, with the grates firmly secured to the steel frame to eliminate loose "rocking" of the grate or protruding edges.

Each section of the tree grates shall be securely bolted down to the frame using pilfer-proof stainless steel bolts through holes provided by the manufacturer. All portions of grates shall be flush. Vertical displacement exceeding 1/4" shall not be acceptable.

Each grate shall be tested to eliminate all displacement or other movement of the grate.

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 the tree grates and frames from damage throughout construction.

315-1.1 Measurement and Payment. The contract unit price per 'Tree Grate' 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.

315-2 TRASH RECEPTACLE INSTALLATION.

315-2.1 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 pavers with epoxy. Contractor shall place the trash receptacles in specified locations and mark the hole locations. Contractor shall pre-drill holes to fit expansion shields flush with paving. Trash receptacle shall then be bolted in place.

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.

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

315-3 BENCH INSTALLATION.

315-3.1 Installation. Benches shall be located where shown on the plans. Install benches in accordance with manufacturer's instructions and recommendations. Install benches accurately and in the correct orientation and relationship with the concrete paving as shown on the drawings. Concrete footings shall be placed a minimum of 3" below bottom of concrete pavers to allow for leveling and installation of pavers per the grading plans. Concrete footings shall not conflict with paving installation.

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 the benches from damage throughout construction work by covering posts and bench with cardboard or plastic for protection during concrete paver installation.

315-3.2 Measurement and Payment. The contract unit price per ‘Bench’ shall include full compensation for furnishing all labor, materials, equipment, concrete footings, tools and incidentals required to complete the work for each bench as specified and no additional compensation will be made therefore.

315-4 PRECAST CONCRETE TABLES INSTALLATION

315-4.1 Installation. Precast Concrete Tables shall be located where shown on the plans. Install precast concrete tables and below grade footings in accordance with manufacturers’ instructions and recommendations. Install precast concrete tables accurately and in the correct orientation and relationship with the concrete pavers as shown on the drawings. Precast concrete tables shall be embedment mounted – hold footing 6” below paving finish grade so as not to conflict with unit pavers finish grade.

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.

315-4.2 Measurement and Payment. The contract unit price per “precast concrete table” shall include full compensation for furnishing all labor, material, equipment, cast-in-place footings, reinforcing tools and incidentals required to complete the work specified type and no additional compensation will be made therefore.

ADD: SECTION 316 – BOULDERS AND COBBLE MULCH INSTALLATION

ADD: 316.0 BOULDERS AND COBBLE MULCH INSTALLATION.

316-1 BOULDERS INSTALLATION. Install boulders with a minimum burial of 1/3 of boulder prior to installing surrounding cobblestone and planting. Subgrade shall be compacted prior to placement. Boulders shall be placed as laid out on plan in natural appearing groups as directed by the City Engineer. After setting on compacted subgrade, the boulders shall be pressed into place using the bucket of a heavy skid loader to compress the soil under the boulder and eliminate air pockets. Contractor may hand tamp soil in place and around boulders to assure compaction. Compact soil backfill around boulders prior to installing planting and cobblestone.

Clean boulders prior to paving installation. Cover all boulders during paving installation operations with plastic to deter damage by other work. Exposed surfaces of boulders shall be clean and free of dirt, discoloration and concrete or other construction materials.

316-2 COBBLE MULCH INSTALLATION. Install cobble in accordance with the detail on the plan prior to installing surrounding planting. Subgrade shall be compacted prior to placement. Cobble shall be placed as laid out on plan in natural appearing layers as directed by the Resident Engineer. Place cobblestone after installing boulders, irrigation systems and plants. Place weed fabric over fined graded soil area, then place cobblestone in layers to achieve a natural appearance and to minimize the gaps between individual stones.

Clean cobbles prior to paving installation. Cover all cobbles during paving installation operations with plastic to deter damage by other site work. Exposed surfaces of cobblestone shall be clean and free of dirt, discoloration and concrete.

316-3 Measurement and Payment. The price for ‘Boulders’ and ‘Cobble Mulch’ is included in the lump sum bid item ‘Boulders and Cobble Mulch’ and shall include full compensation for furnishing all labor, materials, tools, equipment, transportation, sub-grade preparation incidentals and for performing all work in installing the boulders and cobble, complete and in place as shown on the plans. No additional compensation for this item shall be allowed.

ADD: SECTION 317 – LANDSCAPE DRAINAGE SYSTEMS

317.1 LANDSCAPE DRAINAGE SYSTEMS. Contractor shall provide Landscape Drainage Systems Improvements as shown on the plans with tie in to existing storm drain line. The existing drain line shall be protected in place throughout the duration of the project. The existing storm drain shall be prepared in a manner to receive the new drain line pipe and attach readily with coupling. The Contractor shall provide all PVC hard pipe drain lines and inlets per the plans. Contractor shall install all drain lines at the minimum slopes indicated on the plans.

The Contract Unit price for Storm Drain Line Connections shall be paid for by the lump sum unit cost for Landscape Drainage Systems and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in supplying materials, installation, trenching, backfilling, compaction, etc., for a complete system, in place, as shown on the Plans and as specified in these Special Provisions.

END OF SPECIAL PROVISIONS (CITY HEIGHTS SQUARE MINI PARK)

APPENDIX B
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 C
LOCATION MAP

Project Name City Heights Square Mini Park

(Map 1 of 1)



SENIOR ENGINEER
Mark Nassar
(619) 533-3172


PRELIM ENG. PROJECT MANAGER
Larry Kuzminsky
(619) 533-3065

PRELIM ENG. PROJECT ENGINEER
Gjaidan Stewart
(619) 533-3783

PRELIM ENG. P.E.A.
Teddy Ramos
(619) 533-3734



Legend

 Design and Construction of a 5,348 sq ft Mini Park



S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\sect Preliminary_Engineering\PITS\Park&Rec-Parks\PT 315 - City Heights Square Mini Park\Location Map

COMMUNITY NAME: City Heights

COUNCIL DISTRICT: 3

CIP NUMBER: 29-956.0

Date: January 22, 2009

Appendix C Location Map
City Heights Square Mini Park

Every reasonable effort has been made to assure the accuracy of this map. However, neither the State of California nor the City of San Diego is responsible for any errors or omissions on this map. Processing Corporation assumes any liability arising from its use.

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City of San Diego

ADDENDUM "A"

FOR

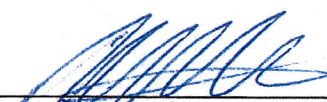
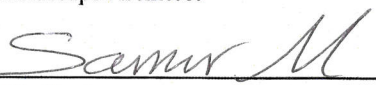
CITY HEIGHTS SQUARE MINI PARK

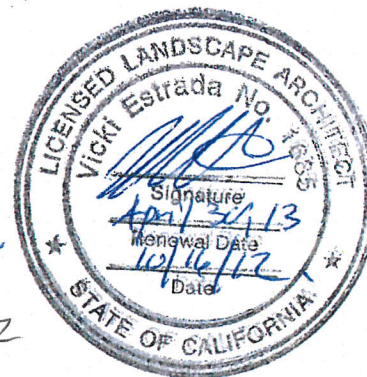


BID NO.: _____ K-13-5456-DBB-3-A
SAP NO. (WBS/IO/CC): _____ S-01070
CLIENT DEPARTMENT: _____ 1714
COUNCIL DISTRICT: _____ 3
PROJECT TYPE: _____ BE

ENGINEER OF WORK

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

1)  _____ Date 10/16/12
2)  _____ Date 10/16/12



A. CHANGES TO THE BID SUBMITTAL DUE DATE AND TIME

The bid opening date for this project has been extended to **2:00 PM on OCTOBER 30, 2012.**

Proposals will be received at the Public Works Contracting Group, 1200 Third Avenue, Suite 200, San Diego, California 92101.

B. PLANS

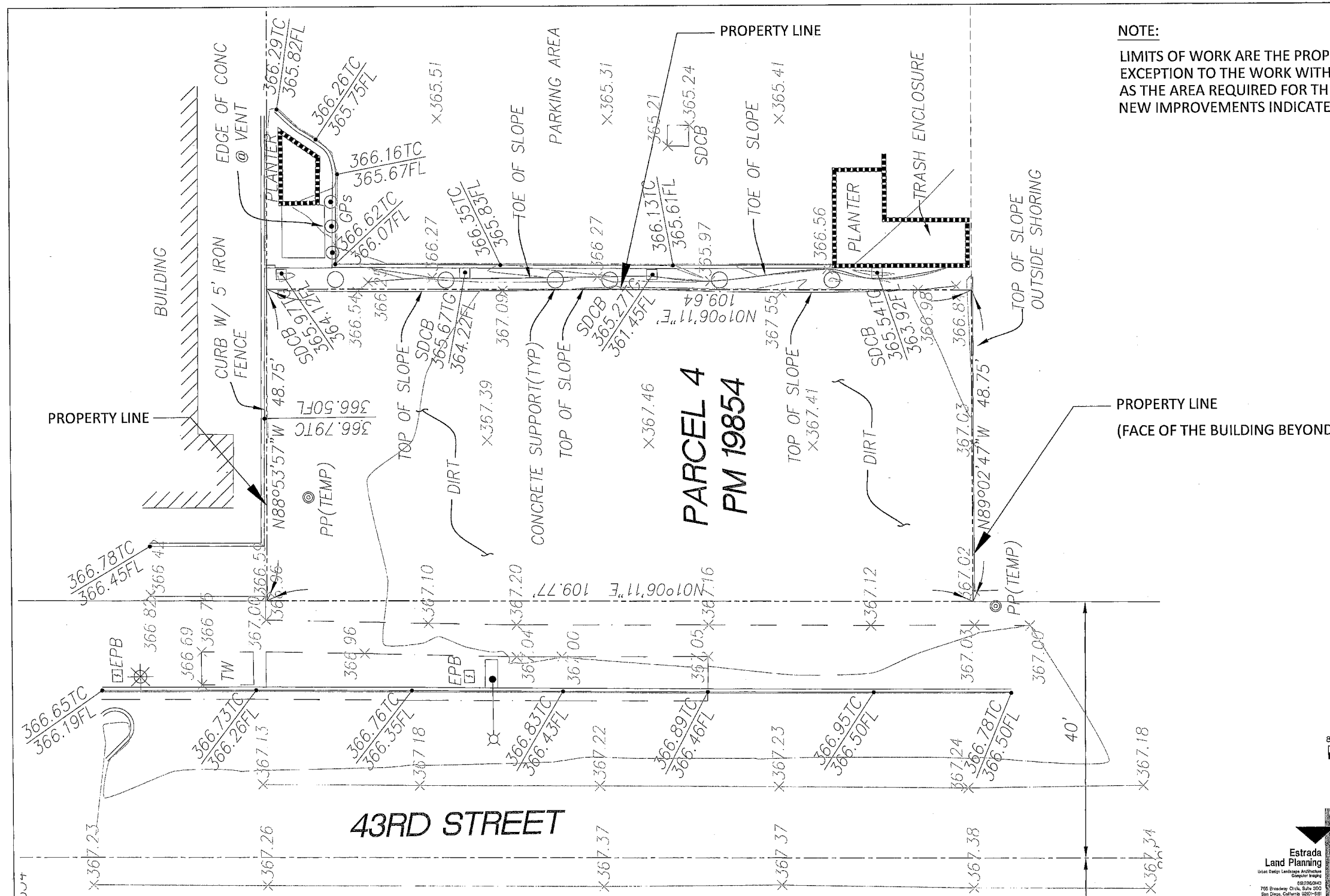
- To Drawings, ADD drawing number **36416-22-D**, page 2 of 2 of this Addendum.

Tony Heinrichs, Director
Public Works Department

Dated: *October 16, 2012*
San Diego, California

TH/CA/NB/egz

CITY HEIGHTS SQUARE MINI PARK



NOTE:
LIMITS OF WORK ARE THE PROPERTY LINES AS INDICATED ON THE PLANS WITH EXCEPTION TO THE WORK WITHIN THE STREET RIGHT-OF-WAY WHICH IS DEFINED AS THE AREA REQUIRED FOR THE CONTRACTOR TO PROVIDE AND INSTALL THE NEW IMPROVEMENTS INDICATED ON THE PLANS.

AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

EX-1

CITY CONTRACT

**PLANS FOR THE CONSTRUCTION OF
CITY HEIGHTS SQUARE MINI PARK
EXISTING CONDITIONS PLAN**

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 22 OF 22 SHEETS

APPROVED: *[Signature]* 10/16/12
FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP		8/30/12	

WATER WBS _____
SEWER WBS S-01070

REGISTERED: A. CORSI PROJECT MANAGER
SECTION HEAD
210-1737
CCS27 COORDINATE
1850-6298
CCS83 COORDINATE
36416-22-D

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

M: \Projects\100\12258\ACAD\Final_Subt\12258_EXC.dwg
10/15/2012 2:44 PM kevin2



Purchasing and Contracting Department
Contracting Division
1200 Third Avenue, Suite 200
San Diego, CA 92101
(619) 236-6000

THE CITY OF SAN DIEGO

FAX TRANSMITTAL

Date: November 1, 2012

The following 1 page (including this cover) is intended for:

To:	Estimator	From:	Claudia Abarca
Company:	PAL General Engineering, Inc.	Division:	Contracting Division
FAX #	858-638-7102	FAX #	619-236-5904
Phone #	858-638-7100	Phone #	619-236-6669

RE: Bid # K-13-5456-DBB-3-A – City Heights Square Mini Park

COMMENTS: In tabulating the bid results of subject project, we have found that the ESTIMATED TOTAL UNIT PRICE for ALTERNATE "B" is \$130.00 per SF (\$33,280.00/256) and the ESTIMATED TOTAL UNIT PRICE for ALTERNATE "C" is \$28.00 per SF (\$7,168.00/256). Please FAX acknowledgement/concurrence of the correct unit price, by 5:00 pm today (11/1/12).

Acknowledged: [Signature]

If there are any problems with receiving this FAX transmission (such as missing pages), please contact the Sender at the "From" phone number given above.

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED, AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. RECEIPT BY AN UNINTENDED RECIPIENT DOES NOT CONSTITUTE A WAIVER OF ANY APPLICABLE PRIVILEGE.

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Valid ✓
CA

City of San Diego

CONTRACTOR'S NAME: PAL General Engineering, Inc.

ADDRESS: 5374 Eastgate Mall San Diego, CA 92121

TELEPHONE NO.: 8586387100

FAX NO.: 8586387102

CITY CONTACT: CLAUDIA ABARCA, Email: cabarca@sandiego.gov, Ph: 619-236-6669, Fax: 619-236-5904

A.Cors/NB/egz



CONTRACT DOCUMENTS FOR

CITY HEIGHTS SQUARE MINI PARK

VOLUME 2 OF 2

BID NO.: K-13-5456-DBB-3-A

SAP NO. (WBS/IO/CC): S-01070

CLIENT DEPARTMENT: 1714

COUNCIL DISTRICT: 3

PROJECT TYPE: BE

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE
- THIS IS A STATE FUNDED CONTRACT THROUGH THE REDEVELOPMENT AGENCY.

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

TABLE OF CONTENTS

Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Failure to include any of the forms may cause the Bid to be deemed non-responsive.

<u>DESCRIPTION</u>	<u>PAGE NUMBER</u>
Bid/Proposal	3-5
Bid Bond.....	6
Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid Under 23 USC 112 And PCC 7106	7
Contractors Certification of Pending Actions	8
Equal Benefits Ordinance Certification of Compliance	9
Proposal (Bid).....	10-12
Form AA35 List of Subcontractors	13
Form AA40 Named Equipment/Material Supplier List	14
Form AA45 Subcontractors Additive/Deductive Alternate List	15

BIDDING DOCUMENTS

PROPOSAL

Bidder's General Information

To the City of San Diego:

Pursuant to "Invitation to 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. _____

IF A PARTNERSHIP, SIGN HERE:

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

BIDDING DOCUMENTS

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

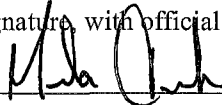
Full Name and Character of partner

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

IF A CORPORATION, SIGN HERE:

(1) Name under which business is conducted PAL General Engineering, Inc.

(2) Signature, with official title of officer authorized to sign for the corporation:



(Signature)

Marla Jahshan

(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) 5374 Eastgate Mall
(5) City and State San Diego CA Zip Code 92121
(6) Telephone No. 8586387100 Facsimile No. 8586387102

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "INVITATION TO 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

LICENSE NO. 916931 EXPIRES April 30, 2013

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.

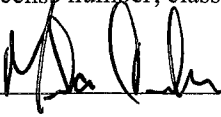
TAX IDENTIFICATION NUMBER (TIN): ██████████

E-Mail Address: info@palsd.com

BIDDING DOCUMENTS


THIS PROPOSAL MUST BE NOTARIZED BELOW:

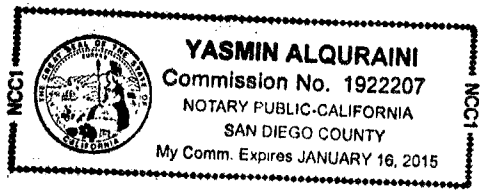
I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature  Title President

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 24th DAY OF October, 2012.

Notary Public in and for the County of San Diego, State of CA


(NOTARIAL SEAL)



BIDDING DOCUMENTS

BID BOND

KNOW ALL MEN BY THESE PRESENTS,

That PAL General Engineering, Inc. as Principal, and
The Hanover 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

City Heights Square Mini Park

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Invitation to 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 3rd day of October, 20 12

PAL General Engineering, Inc. (SEAL)

(Principal)

By: 

(Signature)

Marla Jahshan, President

The Hanover Insurance Company (SEAL)

(Surety)

By: 

(Signature)

Matthew C. Gaynor, Attorney-In-Fact

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

POWERS OF ATTORNEY
CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, do hereby constitute and appoint

Matthew C. Gaynor, Kim D. Vasquez and/or Daniel Frazee

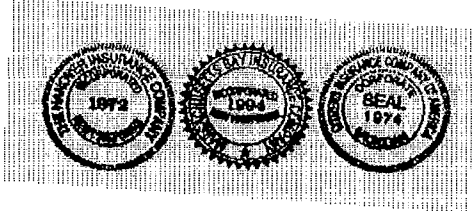
of **Santee, CA** and each is a true and lawful Attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line be filled in, only within the area therein designated any and all bonds, recognizances, undertakings, contracts of indemnity or other writings obligatory in the nature thereof, as follows:

Any such obligations in the United States, not to exceed Ten Million and No/100 (\$10,000,000) in any single instance

and said companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority of the following Resolution passed by the Board of Directors of said Companies which resolutions are still in effect:

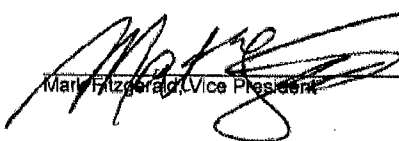
"RESOLVED, That the President or any Vice President, in conjunction with any Vice President, be and they are hereby authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by two Vice Presidents, this **21st** day of **April 2011**.



THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA


Robert Thomas, Vice President


Mary Fitzgerald, Vice President

THE COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER) ss.

On this **21st** day of **April 2011**, before me came the above named Vice Presidents of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.




Barbara A. Garlick, Notary Public
My Commission Expires November 3, 2011

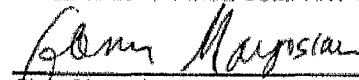
I, the undersigned Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America.

"RESOLVED, That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or any Vice President in conjunction with any Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this **3rd** day of **October, 2012**.

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA


Glen Margosian, Vice President

ACKNOWLEDGMENT

State of California
County of San Diego)

On October 3, 2012 before me, Kathy Scheuerman, Notary Public
(insert name and title of the officer)

personally appeared Matthew C. Gaynor,
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 Kathy Scheuerman (Seal)



ACKNOWLEDGMENT

State of California
County of San Diego)

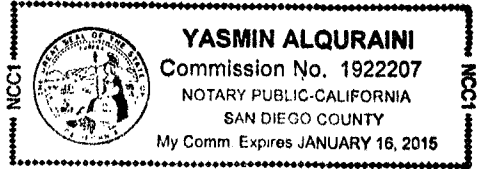
On 10/24/2012 before me, Yasmin Alquraini, Notary Public
(insert name and title of the officer)

personally appeared Maha Zuhair,
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 Yasmin Alquraini _____ (Seal)



BIDDING DOCUMENTS

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 USC 112 AND PCC 7106

State of California)
County of San Diego) ss.

Marla Jahshan, 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.

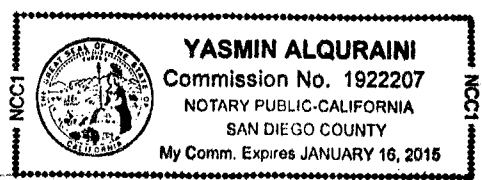
Signed: [Handwritten Signature]

Title: President

Subscribed and sworn to before me this 24th day of October, 2012

[Handwritten 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 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

- x 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 ten 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:

Contractor Name PAL General Engineering, Inc.

Certified By Marla Jahshan Title President
 Name
Signature Date 10/24/2012

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: PAL General Engineering Inc.	Contact Name: Marla Jahshan
Company Address: 5374 Eastgate Mall San Diego, CA 92121	Contact Phone: 8586387100
	Contact Email: info@palsd.com

CONTRACT INFORMATION

Contract Title: City Heights Mini Square Park	Start Date:
Contract Number (if no number, state location): K-13-5456-DBB-3A	End Date:

SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in San Diego Municipal Code §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 offered to 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 its Rules are posted at www.sandiego.gov/administration.

CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION

Please indicate your firm's compliance status with the EBO. The City may request supporting documentation.

- I affirm compliance with the EBO because my firm (*contractor must select one reason*):
- Provides equal benefits to spouses and domestic partners.
 - Provides no benefits to spouses or domestic partners.
 - Has no employees.
 - Has collective bargaining agreement(s) in place prior to January 1, 2011, that has not been renewed or expired.
- I request the City's approval to pay affected employees a **cash equivalent** in lieu of equal benefits and verify my firm made a reasonable effort but is not able to provide equal benefits upon contract award. I agree to notify employees of the availability of a cash equivalent for benefits available to spouses but not domestic partners and to continue to make every reasonable effort to extend all available benefits to domestic partners.

It is unlawful for any contractor to knowingly submit any false information to the City regarding equal benefits or cash equivalent associated with the execution, award, amendment, or administration of any contract. [San Diego Municipal Code §22.4307(a)]

Under penalty of perjury under laws of the State of California, I certify the above information is true and correct. I further certify that my firm understands the requirements of the Equal Benefits Ordinance and will provide and maintain equal benefits for the duration of the contract or pay a cash equivalent if authorized by the City.

<u>Marla Jahshan, President</u>		<u>10/24/2012</u>
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 **CITY HEIGHTS SQUARE MINI PARK**, 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 or 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	237990	9-3.1	Construction of Park Improvements	 	\$310,476
2.	1	LS	541330	801-9.4	Water Pollution Control Development	 	\$950
3.	1	LS	237990	801-9.4	Water Pollution Control Implementation	 	\$3,500
4.	1	AL	237990	7-5	Permit Fee – Type I Allowance	 	\$6,000.00
5.	1	AL	237990	7-5	SDG&E – Type I Allowance	 	\$10,000.00
6.	1	LS	237990	9-3.4.1	Mobilization	 	\$4,500
7.	1	LS	237990	2-4.1	Bond (Payment & Performance)	 	\$2,500
8.	1	AL	237990	9-3.5	Field Orders - Type II Allowance	 	\$29,600.00
ESTIMATED TOTAL BASE BID:							\$367,526
ADDITIVE ALTERNATE "A"							
1.	1	LS	237990	303-11.2	Steel Trellis	 	\$24,750
ESTIMATED TOTAL ADDITIVE ALTERNATE "A":							\$24,750
ADDITIVE ALTERNATE "B "							
1.	256	SF	238110	303-9.8	Lithocrete Concrete	 \$130.00/cy	\$33,280
ESTIMATED TOTAL ADDITIVE ALTERNATE "B":							\$33,280
ADDITIVE ALTERNATE "C"							
1.	256	SF	238110	303-10.3	Concrete Pavers	 \$24.00/cy	\$7,168
ESTIMATED TOTAL ADDITIVE ALTERNATE "C":							\$7,168
ESTIMATED TOTAL BASE BID PLUS ADDITIVE ALTERNATES "A" and "B" and "C":							\$432,724

BIDDING DOCUMENTS

TOTAL BID PRICE FOR BID (Base Bid, Items 1 through 8 PLUS Additive Alternate "A", Item 1 and Additive Alternate "B", Item 1, and Additive Alternate "C", Item 1 inclusive) amount written in words:

Four Hundred and thirty two thousand seven hundred and twenty four dollars and zero cents

The Bid shall contain an acknowledgement 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, the Bid shall be rejected as being **non-responsive**. List the Addenda received and being acknowledged: 7

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

PAL General Engineering, Inc.

Marla Jahshan, President

Abd Jahshan, Vice President

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.

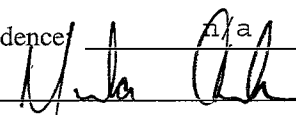
Bidder: PAL General Engineering, Inc.

Title: President

Business Address: 5374 Eastgate Mall San Diego, CA 92121

Place of Business: 5374 Eastgate Mall San Diego, CA 92121

Place of Residence: Ala

Signature: 

NOTES:

- A. The City shall determine the low Bid based on the Base Bid Plus Additive Alternates "A" and "B" and "C".
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid PLUS Additive Alternate "B" or "C" or if applicable, for the Base Bid plus any combination of alternates selected in the City's sole discretion.
- C. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.

BIDDING DOCUMENTS

- D. Failure to initial all corrections made in the bidding documents shall cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- E. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- H. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- I. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as non-responsive and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>ACE Electric Inc.</u> Address: <u>PO Box 601071</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92160</u> Phone: <u>6195219790</u>	C	<u>Electrical</u>	<u>\$32,400</u>	<u>Small Business Cert# 54659</u>	<u>CA</u>	<u>n/a</u>
Name: <u>TB Pennick & Sons Inc.</u> Address: <u>15435 Innovation Dr #100</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92128</u> Phone: <u>8585581800</u>	C	<u>Decorative Concrete</u>	<u>\$25,690</u>	<u>na</u>	<u>n/a</u>	<u>n/a</u>
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

\$58,090
= .1580

- 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 (except for OBE, SLBE and ELBE).

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 submit with the Bid 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: _____		<i>none</i>				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

BIDDING DOCUMENTS

SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE

Bidder shall list all Subcontractors described in the Bidder's *Base Bid* whose percentage of work will increase or decrease if alternates are selected for award. Bidder shall also list additional Subcontractors not described in the Bidder's *Base Bid* who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

ADDITIVE/DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB [ⓐ]	WHERE CERTIFIED [ⓑ]	CHECK IF JOINT VENTURE PARTNERSHIP
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____		<i>name</i>				
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

- ⓐ 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 | | |
- ⓑ 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 participations percentages if the Bidder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL *A PERMIT/ *A NOTICE TO PROCEED HAS BEEN ISSUED.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL.
- "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT- ISSUING AUTHORITY.
- ALL EXISTING AND/OR PROPOSED PUBLIC UTILITY SYSTEM AND SERVICE FACILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 144.0240 OF THE MUNICIPAL CODE.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION (858) 627-3200.
- DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.
- AN AS-GRADED GEOTECHNICAL REPORT AND A SET OF THE REDLINE GRADING PLANS SHALL BE SUBMITTED AT AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE FIELD ENGINEERING DIVISION AT 9485 AERO DR.
- THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK. DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT (FRICTION FACTOR >= 0.50) AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.

GRADING NOTES

- GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE SAN DIEGO MUNICIPAL CODE.
- PLANT AND IRRIGATE ALL CUT AND FILL SLOPES AS REQUIRED BY ARTICLE 2, DIVISION 4, SECTION 142.0411 OF THE SAN DIEGO LAND DEVELOPMENT CODE AND ACCORDING TO SECTION IV OF THE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS.
- GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 DAYS SHALL BE TEMPORARILY RE-VEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL.

GROUND WATER DISCHARGE NOTES

- ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO 2001-96 NPDES CAG919002.
- THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.
- ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO 2000-90. NPDES NO. CAG919001.

ACCESSIBILITY NOTES

- ALL SLOPES SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW MAXIMUMS ALLOWED BY THE CALIFORNIA BUILDING CODE (C.B.C.) AND THE AMERICANS WITH DISABILITY ACT ACCESS GUIDE (A.D.A.A.G.) IN ORDER TO ALLOW FOR CONSTRUCTION TOLERANCES. IT IS CONTRACTORS' RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH A.D.A.A.G. AND 2010 C.B.C. AND IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE ENGINEER NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
- THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO C.B.C. AND A.D.A.A.G. ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR CONSTRUCTION TOLERANCE, ANY CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY C.B.C. AND A.D.A.A.G. ARE SUBJECT TO REJECTION BY THE CITY AND MAY BE REQUIRED TO BE REMOVED AND REPLACED.
- SINCE THE CIVIL ENGINEER OR SURVEYOR CAN NOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUB-CONTRACTORS DURING GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FINAL ACCEPTANCE OF A.D.A.A.G. RELATED ITEMS BY THE CITY, ANY OTHER AUTHORITY, OR OTHER AFFECTED PARTIES.

SPECIAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTORS SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ENGINEER AND GEOLOGIST HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROPERTY, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- DURING CONSTRUCTION: THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. HE SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE.
- ALL WORK NEEDING MATERIALS TESTING REQUIRES THAT THE CONTRACTOR NOTIFY THE CITY MATERIALS LAB AT 463-0329 BY NOON THE DAY BEFORE THE WORK IS SCHEDULED TO BEGIN TO ARRANGE FOR TESTING.
- WORK PERFORMED WITHOUT BENEFIT OF TESTING AND/OR INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
- THE EXISTENCE AND LOCATION OF UTILITY STRUCTURES AND FACILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITY FACILITIES OR STRUCTURES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND ANY OTHER EXISTING FACILITIES OR STRUCTURES THAT MAY NOT BE SHOWN.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISION OF THE CONSTRUCTION PLANS IF IT IS FOUND THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
- NEITHER THE CITY NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.

STRIPING AND SIGNING GENERAL NOTES *

- INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:

DOCUMENT NO.	FILED	DESCRIPTION
PITS05040901	05-04-09	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2009 EDITION
PITS090110-1	09-01-10	CITY OF SAN DIEGO SUPPLEMENT, 2010 UPDATE
AEC1231064	12-31-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2006)
AEC1230163	12-31-06	CITY OF SAN DIEGO STANDARD DRAWINGS INCLUDING REGIONAL STANDARD DRAWINGS

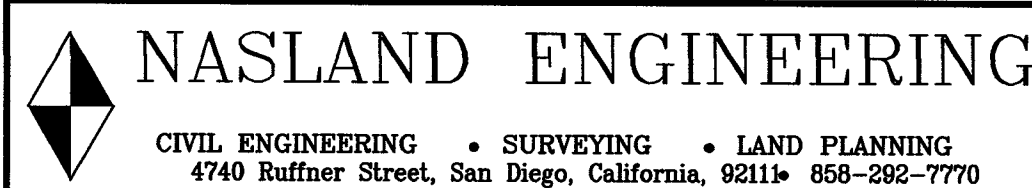
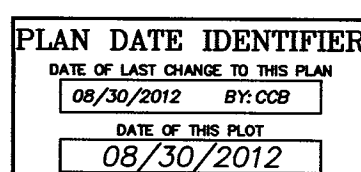
- ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER CITY OF SAN DIEGO STANDARDS DRAWING, M-45.
- ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.
- ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.
- STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.
- THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

TRAFFIC CONTROL NOTE

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11"x17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO, (619) 446-5150. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

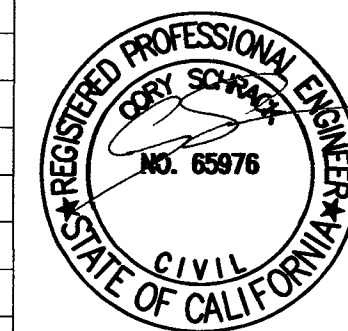
TRUCK HAUL NOTES

THE CONTRACTOR SHALL SUBMIT A TRUCK HAUL ROUTE PLAN (11"x17") FOR APPROVAL PRIOR TO STARTING EXPORT OR IMPORT OF MATERIAL. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, BUILDING, SAFETY & CONSTRUCTION DIVISION, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO (619) 446-5150. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.



NE JOB NO. 109-110.2

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____		SPEC. NO.: 5456
AS-BUILT INFORMATION		
MATERIALS	MANUFACTURER	
PIPE CL 235 (WATER)	-	
PIPE SDR 35 (SEWER)	-	
GATE VALVES	-	
FIRE HYDRANTS	-	
SEWER MANHOLES	-	
REHABILITATE SEWER MANHOLES	-	
REHABILITATE SEWER MAIN	-	



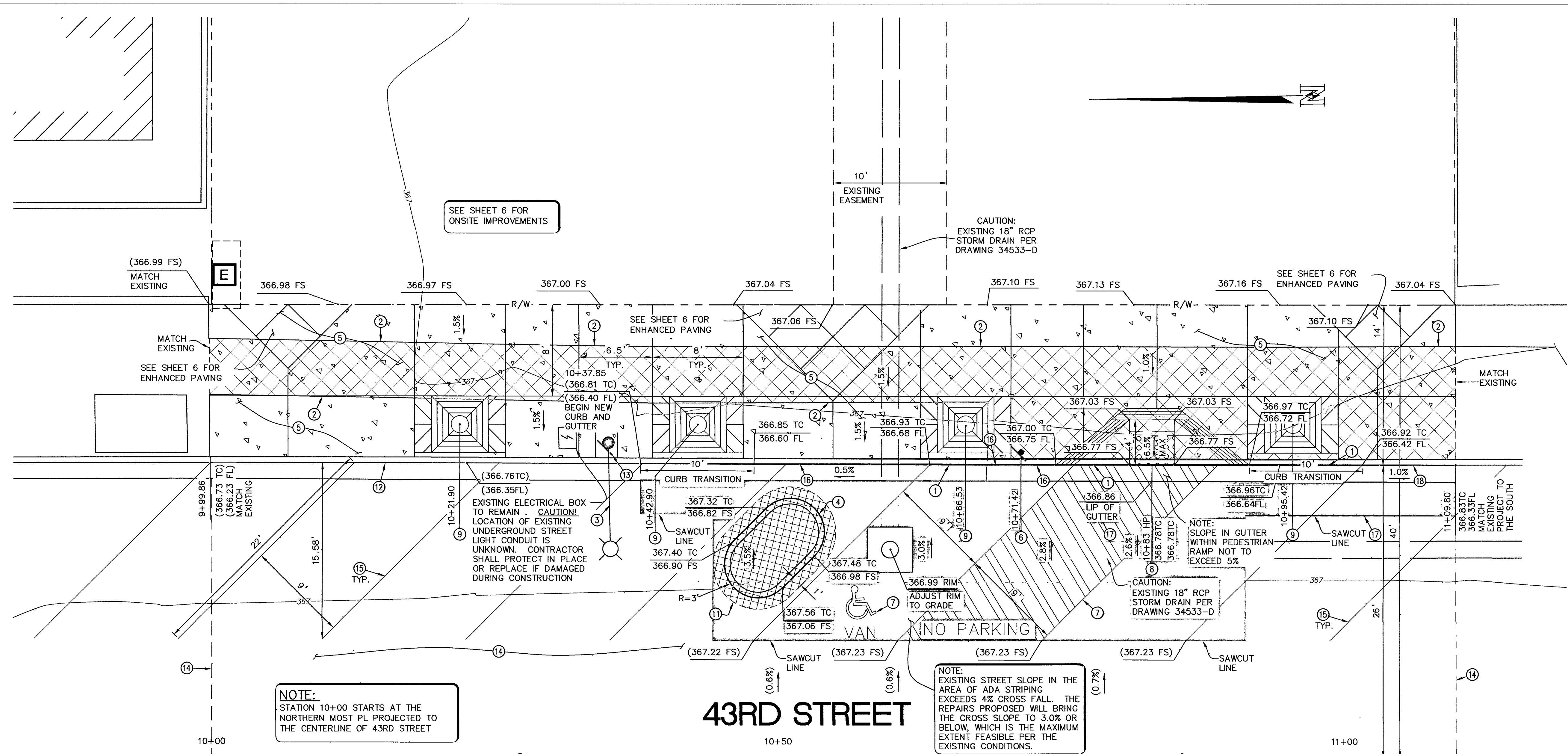
CITY CONTRACT

IMP-01

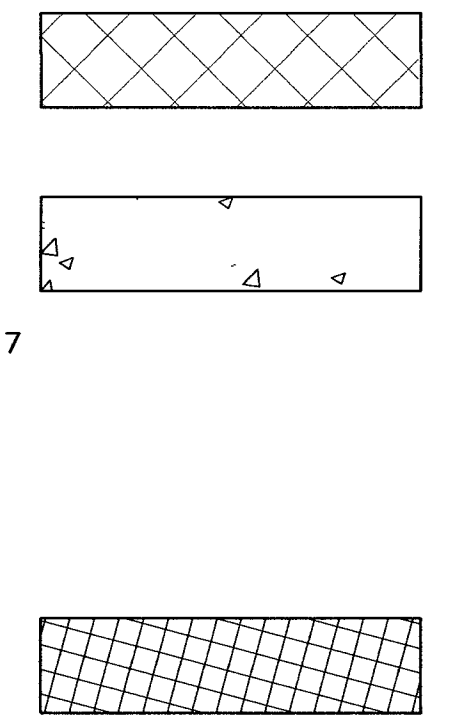
PLANS FOR THE CONSTRUCTION OF
CITY HEIGHTS SQUARE MINI PARK
NOTES

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 2 OF 21 SHEETS		WATER WBS _____ SEWER WBS S-01070
APPROVED BY <i>Samuel M. A. Corsi</i> FOR CITY ENGINEER	DATE 9/4/12	DESIGNED BY A. CORSI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	NE	8/30/12
		SECTION HEAD
		210-1737
		CC827 COORDINATE
		1850-6298
		CC883 COORDINATE
CONTRACTOR	DATE STARTED	36416-2 -D
INSPECTOR	DATE COMPLETED	

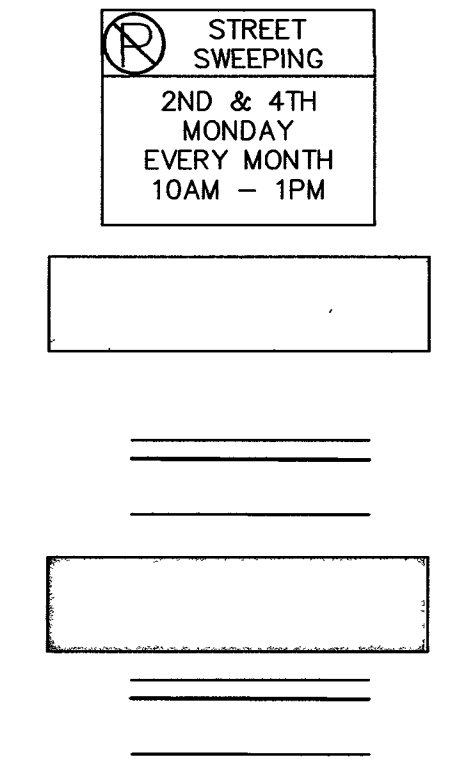
CITY HEIGHTS SQUARE MINI PARK



- CONSTRUCTION NOTES:**
- 1 SAWCUT AND REMOVE EXISTING 6" CURB AND GUTTER.
 - 2 REMOVE EXISTING CONCRETE SIDEWALK.
 - 3 EXISTING TYPE 15 LIGHT TO REMAIN. PROTECT IN PLACE.
 - 4 INSTALL 6" MEDIAN CURB PER SDRSD G-1.
 - 5 CONSTRUCT P.C.C. SIDEWALK PER SDRSD G-7. INSTALL 4" AGGREGATE BASE BELOW SIDEWALK.
 - 6 INSTALL DISABLED PARKING SIGNAGE PER ADA GUIDELINES. SDRSD M-117
 - 7 INSTALL DISABLED PARKING PAVEMENT SYMBOL PER SDRSD M-117
 - 8 INSTALL PEDESTRIAN CURB RAMP AND GUTTER PER MODIFIED SDRSD G-136 WITH TRUNCATED DOMES 3' IN DEPTH PER SDRSD G-130
 - 9 INSTALL TREE GRATE, SEE SHEET 6 FOR DETAILS.
 - 10 NOT USED
 - 11 SAWCUT AND REMOVE EXISTING AC TO ALLOW FOR INSTALLATION OF NEW MEDIAN CURB AND LANDSCAPE ISLAND. REPLACE AC PAVING BETWEEN SAWCUT LINE AND NEW CURB.

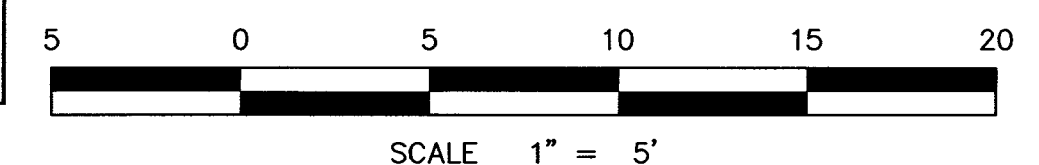


- CONSTRUCTION NOTES Cont:**
- 12 EXISTING CURB AND GUTTER TO REMAIN.
 - 13 INSTALL NEW STREET SWEEPING SIGN ON EXISTING LIGHT POLE
 - 14 INSTALL NEW SLURRY SEAL TO MATCH EXISTING SURFACE
 - 15 INSTALL TWO COATS OF 4" WHITE STRIPING FOR PARKING STALLS
 - 16 INSTALL NEW 3" CURB AND GUTTER PER MODIFIED SDRSD G-2. PROVIDE SMOOTH TRANSITION TO EXISTING AC. GUTTER SLOPE 5% MAX IN DIRECTION OF TRAVEL.
 - 17 RECONSTRUCT STREET SECTION PER SCHEDULE J SDRSD SDG-113
 - 18 INSTALL NEW 6" CURB AND GUTTER PER SDRSD G-2. PROVIDE SMOOTH TRANSITION TO EXISTING AC.



43RD STREET

PLAN DATE IDENTIFIER
 DATE OF LAST CHANGE TO THIS PLAN: 08/30/2012 BY: CDP
 DATE OF THIS PLAN: 08/30/2012



AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-



CITY CONTRACT IMP-02

**PLANS FOR THE CONSTRUCTION OF
CITY HEIGHTS SQUARE MINI PARK
STREET IMPROVEMENT PLAN**

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 3 OF 21 SHEETS

APPROVED: *Samir M. A. Corsi* 9/4/12
 FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	NE		8/30/12	

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

SECTION HEAD: 210-1737
 CC827 COORDINATE: 1850-6298
 CC883 COORDINATE: **36416-3 -D**

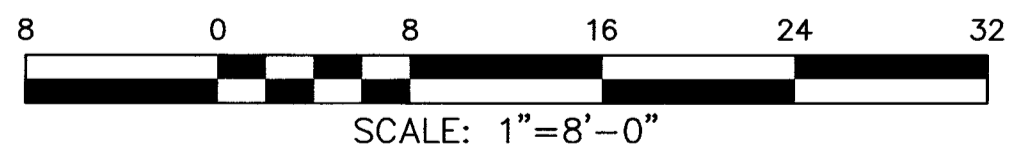
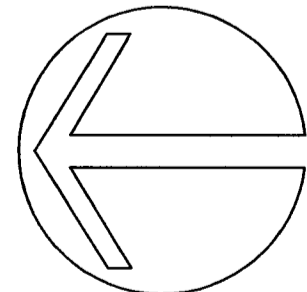
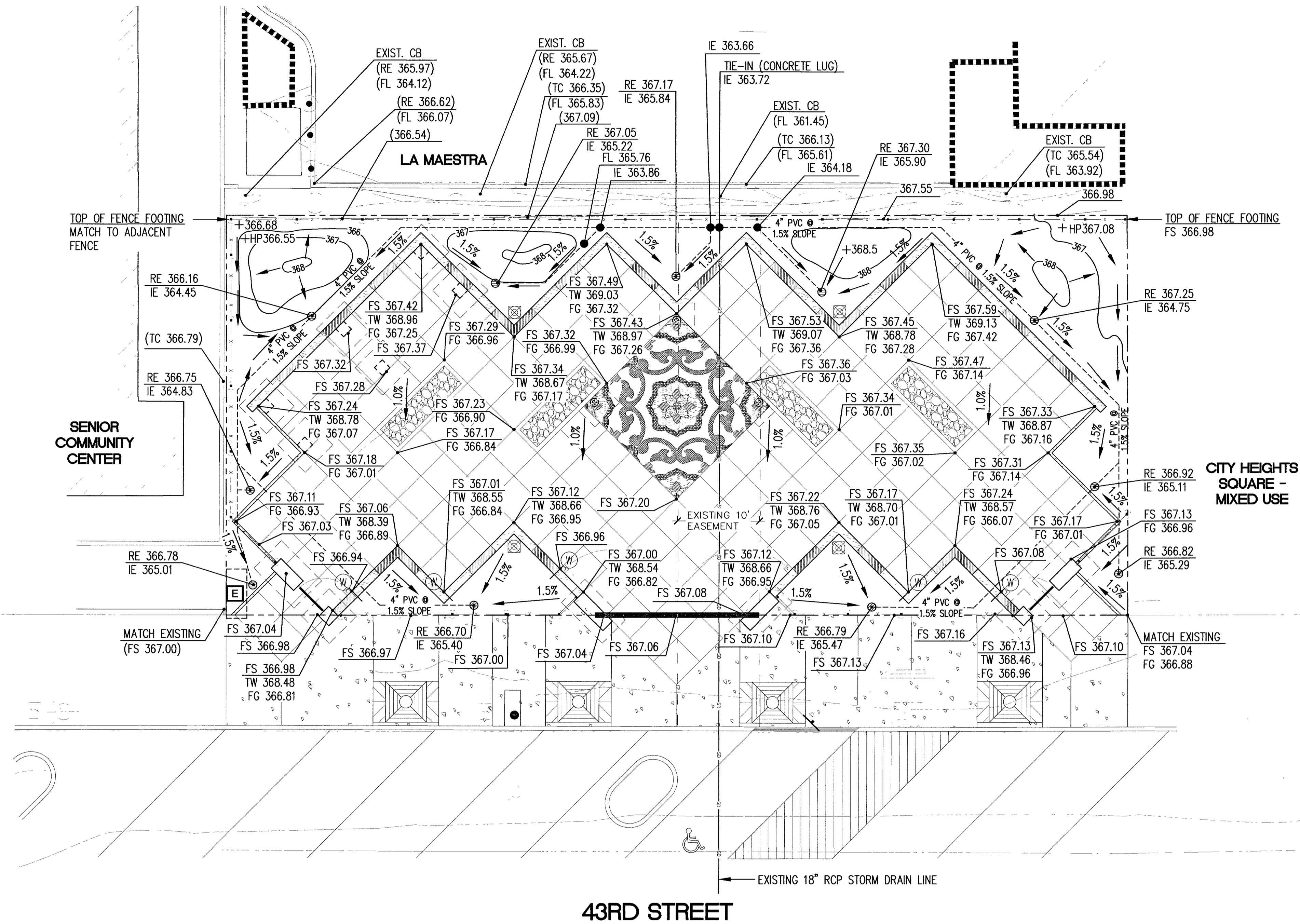
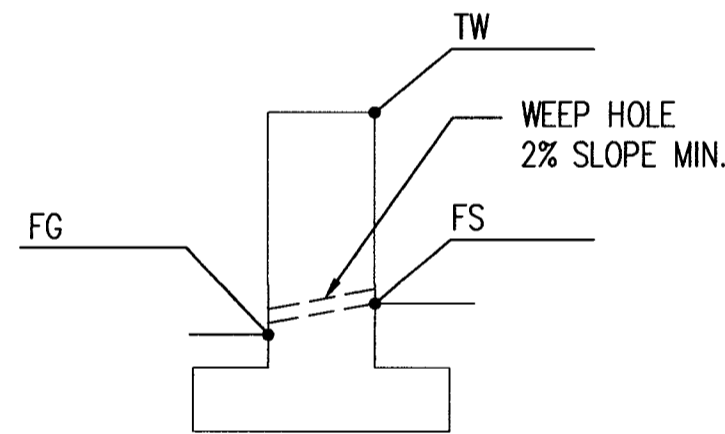
NASLAND ENGINEERING
 CIVIL ENGINEERING • SURVEYING • LAND PLANNING
 4740 Ruffner Street, San Diego, California, 92111 • 858-292-7770

NE JOB NO. 109-110.2

ABBREVIATIONS

FG	= FINISH GRADE (SOIL LEVEL)
FL	= FLOW LINE
FS	= FINISH SURFACE (HARDSCAPE)
HP	= HIGH POINT SWALE
IE	= INVERT ELEVATION
RE	= RIM ELEVATION
TC	= TOP OF CURB
TW	= TOP OF WALL
→	= FLOW DIRECTION
⊕	= DRAIN INLET
⊙	= WEEP HOLE - SEE D/SHEET 9
TIE IN	= CONNECT TO EXISTING 18" RCP WITH LUG CONNECTION - SEE SDRSD D-63
EXIST. CB	= EXISTING CATCH BASIN
(FS 366.99)	= EXISTING FINISH GRADE
(FL 366.78)	= EXISTING FLOW LINE GRADE
(365.98)	= EXISTING SPOT GRADE
(TC 365.99)	= EXISTING TOP OF CURB GRADE
---	= FLOW LINE ELEV. / TIE-IN ELEV.

- NOTES:**
- CONTRACTOR SHALL CONSTRUCT SEATWALLS WITH A CONSISTENT SLOPE.
 - CONTRACTOR SHALL COORDINATE STRUCTURAL POST AND SEATWALL FOOTINGS TO MINIMIZE CONFLICTS AND TO ASSURE CONTRACTABILITY OF COLUMNS, SEATWALLS, AND PAVINGS.



SEE SHEET 6 FOR SITE IMPROVEMENTS.
SEE SHEET 7 THRU 10 FOR CONSTRUCTION DETAILS.
SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

Estrada Land Planning
Urban Design Landscape Architecture
Complete Works
619.258.0445
755 Broadway Suite 300
San Diego California 92101-9981
619.258.0273 Fax
ELP@estradaandplan.com

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH <input type="checkbox"/> MEDIUM <input type="checkbox"/> LOW <input type="checkbox"/>		SPEC. NO. 5456
AS-BUILT INFORMATION		
MATERIALS	MANUFACTURER	
PIPE CL 235 (WATER)	-	
PIPE SDR 35 (SEWER)	-	
GATE VALVES	-	
FIRE HYDRANTS	-	
SEWER MANHOLES	-	
REHABILITATE SEWER MANHOLES	-	
REHABILITATE SEWER MAIN	-	



CITY CONTRACT G-1

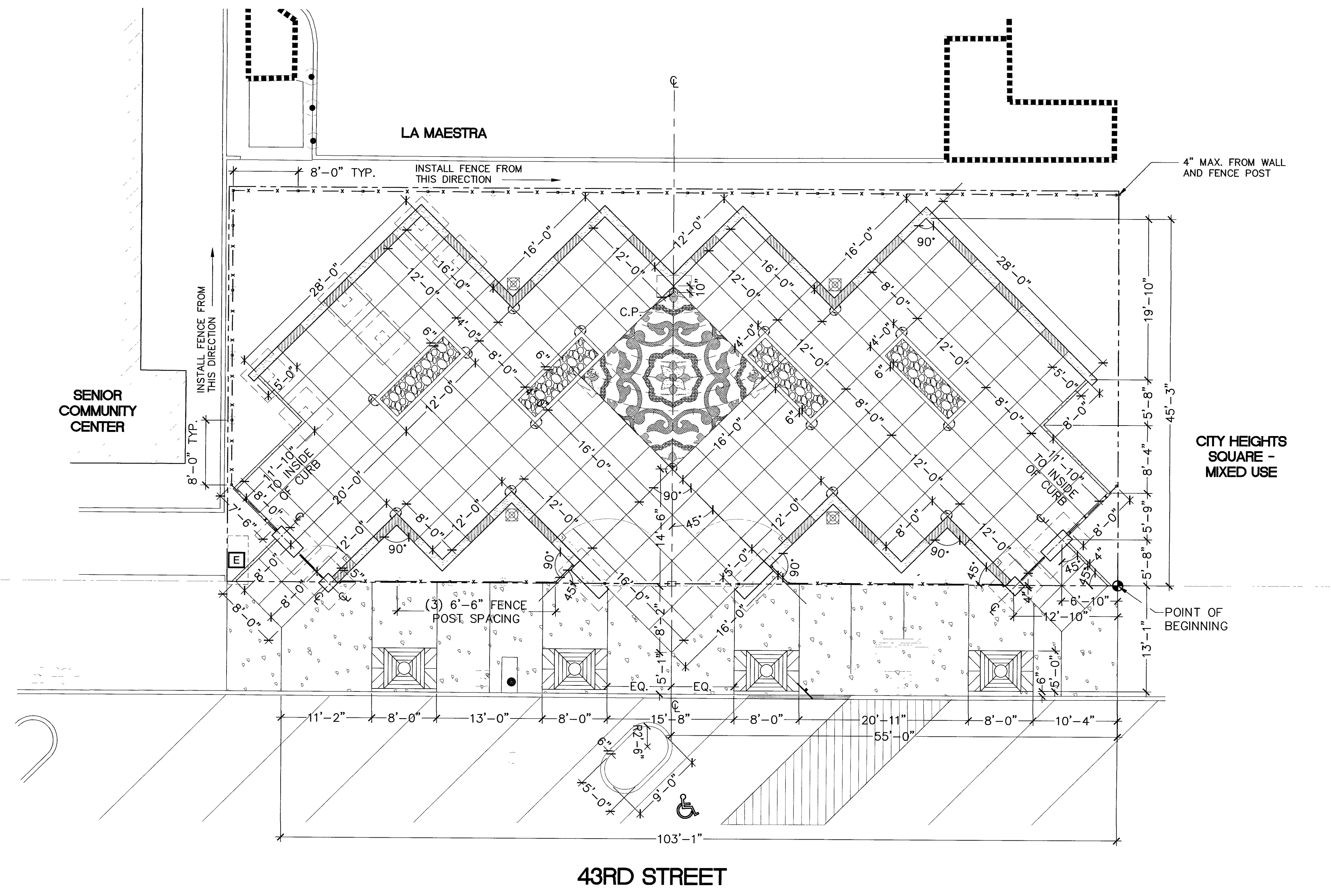
PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK GRADING PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 4 OF 21 SHEETS		WATER WBS
APPROVED: <i>Samir M.</i> 9/4/12 FOR CITY ENGINEER DATE		SEWER WBS S-01070
DESIGNER	BY	DATE
ORIGINAL	ELP	8/30/12
DATE	APPROVED	FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		36416- 4 -D

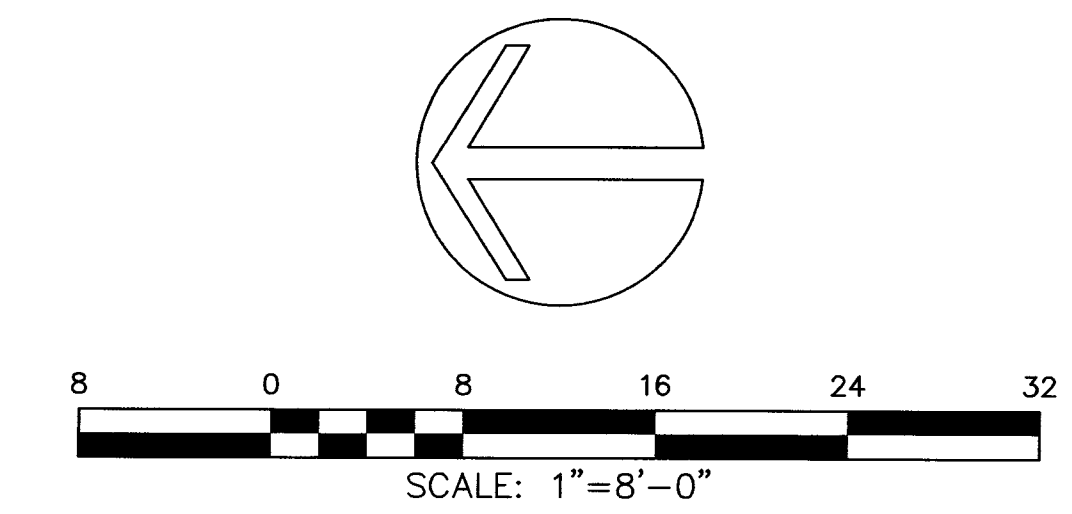
CITY HEIGHTS SQUARE MINI PARK

ABBREVIATIONS
 C.P. = CONCRETE POST
 CL = CENTERLINE
 ALIGN = ALIGN

NOTE:
 DESIGN IS BASED ON A 4'-0" GRID.
 ESTABLISH PROPERTY LINE CORNER
 AND CENTERLINE OF SITE LAYOUT
 TO BEGIN ANGLED GRID.



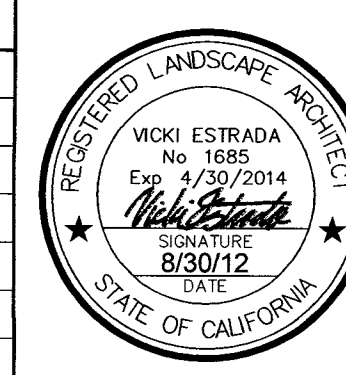
CITY HEIGHTS SQUARE MINI PARK



Estrada Land Planning
 Urban Design, Landscape, Architecture
 Collaborative Imaging
 619-238-0343
 756 Broadway Circle, Suite 300
 San Diego, California 92101-6911
 619-238-0376 Fax
 ELP@estrada.landplan.com

AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____
 SPEC. NO.: 5456



CITY CONTRACT LA-1

**PLANS FOR THE CONSTRUCTION OF
 CITY HEIGHTS SQUARE MINI PARK
 LAYOUT PLAN**

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 5 OF 21 SHEETS

APPROVED FOR CITY ENGINEER	BY	APPROVED	DATE	FILMED	WATER WBS	SEWER WBS
<i>Samuel M.</i>	ELP		9/4/12		S-01070	
DESCRIPTION	BY	APPROVED	DATE	FILMED	SUBMITTED BY	
ORIGINAL	ELP		8/30/12		A. CORSI	
					PROJECT MANAGER	
					SECTION HEAD	
					210-1737	
					CCS27 COORDINATE	
					1850-6298	
					CC883 COORDINATE	
CONTRACTOR	DATE STARTED				36416- 5-D	
INSPECTOR	DATE COMPLETED					

CONSTRUCTION LEGEND

NUMBER	DESCRIPTION	DETAIL REFERENCE	SYMBOL
1	PROVIDE AND INSTALL 1'x4' CONCRETE PAVERS; FOR ADD. ALT. LIMITS INCLUDE PAVERS PER ADDITIVE ALTERNATE 'C'.	F, G / SHT. 7 SEE SPECIFICATIONS	
2	CONSTRUCT CONCRETE SIDEWALK PAVING TO MATCH EXISTING	B,C,D,E / SHT. 7 SEE SHT. 3 AND SPECS.	
3	ADDITIVE ALTERNATE #B - CONSTRUCT AND INSTALL LITHORETE 'MOSAIC TILE' CONCRETE PAVING	B, C / SHT. 9 SEE SPECIFICATIONS	SEE PLAN AND DETAIL
4	PROVIDE AND INSTALL COBBLE MULCH	I / SHT. 7 SEE SPECIFICATIONS	
5	INSTALL BOULDERS - SIZE PER BOULDER SCHEDULE	J / SHT. 7 SEE SPECIFICATIONS	
6	CONSTRUCT 4" CONCRETE HEADER	H / SHT. 7 SEE SPECIFICATIONS	
7	CONSTRUCT 6" CONCRETE HEADER	I / SHT. 7 SEE SPECIFICATIONS	
8	CONSTRUCT EXPANSION JOINT IN CONCRETE PAVING (TYP.)	E / SHT. 7 SEE SPECIFICATIONS	
9	CONTROL JOINT IN CONCRETE PAVING	D, E / SHT. 7 SEE SPECIFICATIONS	
10	CONSTRUCT 16" HT. BLOCK SEAT WALL WITH TILE VENEER AND WALL CAP	D / SHT. 9 SEE SPECIFICATIONS	
11	CONSTRUCT 18.5" HT. BLOCK SEAT WALL WITH TILE VENEER AND WALL CAP	D / SHT. 9 SEE SPECIFICATIONS	
12	CONSTRUCT WOOD TRELLIS WITH STRUCTURAL COLUMNS AND PRECAST VENEERS	A, C / SHT. 10 SEE SPECIFICATIONS AND STRUCTURAL CALCS.	SEE PLAN
13	ADDITIVE ALTERNATE #A - CONSTRUCT STEEL TRELLIS STRUCTURE WITH STRUCTURAL COLUMNS AND PRECAST VENEERS	B, C / SHT. 10 SEE SPECIFICATIONS AND STRUCTURAL CALCS.	SEE PLAN
14	CONSTRUCT SIGN PILASTER SIGN 20"x5'-0"x7'-0" HT. PRECAST CONCRETE PILASTER WITH PARK SIGN	A / SHT. 9 SEE SPECIFICATIONS	
15	CONSTRUCT 20"x20"x7'-0" HT. PRECAST CONCRETE PILASTER	A / SHT. 8 SEE SPECIFICATIONS	
16	CONSTRUCT 6' HT. METAL PERIMETER FENCE IN CONCRETE HEADER	E, F, J / SHT. 8 SEE SPECIFICATIONS	
17	CONSTRUCT 6' HT. METAL FENCE WITH CONCRETE FOOTING	E, F, J / SHT. 8 SEE SPECIFICATIONS	
18	PROVIDE AND INSTALL 4' WIDE SIDE ENTRY GATE	B, D / SHT. 8 SEE SPECIFICATIONS	
19	PROVIDE AND INSTALL 8' DOUBLE ENTRY GATES	C, D / SHT. 8 SEE SPECIFICATIONS	
20	PROVIDE AND INSTALL GALVANIZED STEEL ARCH	C / SHT. 8 AND A / SHT. 9 SEE SPECIFICATIONS	
21	PROVIDE AND INSTALL 5'x8' METAL TREE GRATE TO MATCH EXISTING	B, C / SHT. 7 SEE SPECIFICATIONS	
22	CONSTRUCT ADA ACCESSIBLE PEDESTRIAN RAMP	SDRS D-132 SEE SHT. 3 AND SPECS.	
23	CURB PAINTED BLUE FOR ACCESSIBLE PARKING STALL	SEE SPECIFICATIONS	
24	PROVIDE AND INSTALL ADA SIGN	SDSD M-117 SEE SHT. 3 AND SPECS.	
25	PROVIDE AND INSTALL BENCH (STRAIGHT W/ BACK AND ARM REST) - ACCESSIBLE	I / SHT. 8 F, G / SHT. 9 SEE SPECIFICATIONS	
26	ALLOW 3'x4' COMPANION SEATING SPACE ON 1.5% MAXIMUM SLOPE SURFACE-ALL DIRECTIONS	I / SHT. 8 SEE SPECIFICATIONS	
27	PROVIDE AND INSTALL ROUND PICNIC TABLE - ACCESSIBLE (MAX 1.5% SLOPE ON ADJACENT GRADE)	SEE SPECIFICATIONS	
28	PROVIDE AND INSTALL 4-SEAT GAME TABLE - ACCESSIBLE (MAX 1.5% SLOPE ON ADJACENT GRADE)	SEE SPECIFICATIONS	
29	PROVIDE AND INSTALL 2-SEAT GAME TABLE - ACCESSIBLE (MAX 1.5% SLOPE ON ADJACENT GRADE)	SEE SPECIFICATIONS	
30	PROVIDE AND INSTALL TRASH RECEPTACLE WITH HOOD	SEE SPECIFICATIONS	
31	CONSTRUCT 20"x3'-10"x7'-0" HT. PRECAST CONCRETE PILASTER	SEE SPECIFICATIONS	
32	PROVIDE 14' HT. CONCRETE POST LIGHT (CUT OFF LUMINAIRE)	SHT. 16 AND SHT. 17 SEE SPECIFICATIONS	

BOULDER SCHEDULE

NUMBER	DESCRIPTION	SIZE RANGE	QTY.	POSITIONING
5A	TYPE 'A'	2.0' - 2.5'	1	HORIZONTAL
5B	TYPE 'B'	3' - 1.5'	1	VERTICAL
5C	TYPE 'C'	2.5' - 1.5'	1	VERTICAL
5D	TYPE 'D'	2.0' - 2.0'	1	HORIZONTAL
5E	TYPE 'E'	2.5' - 2.5'	1	HORIZONTAL

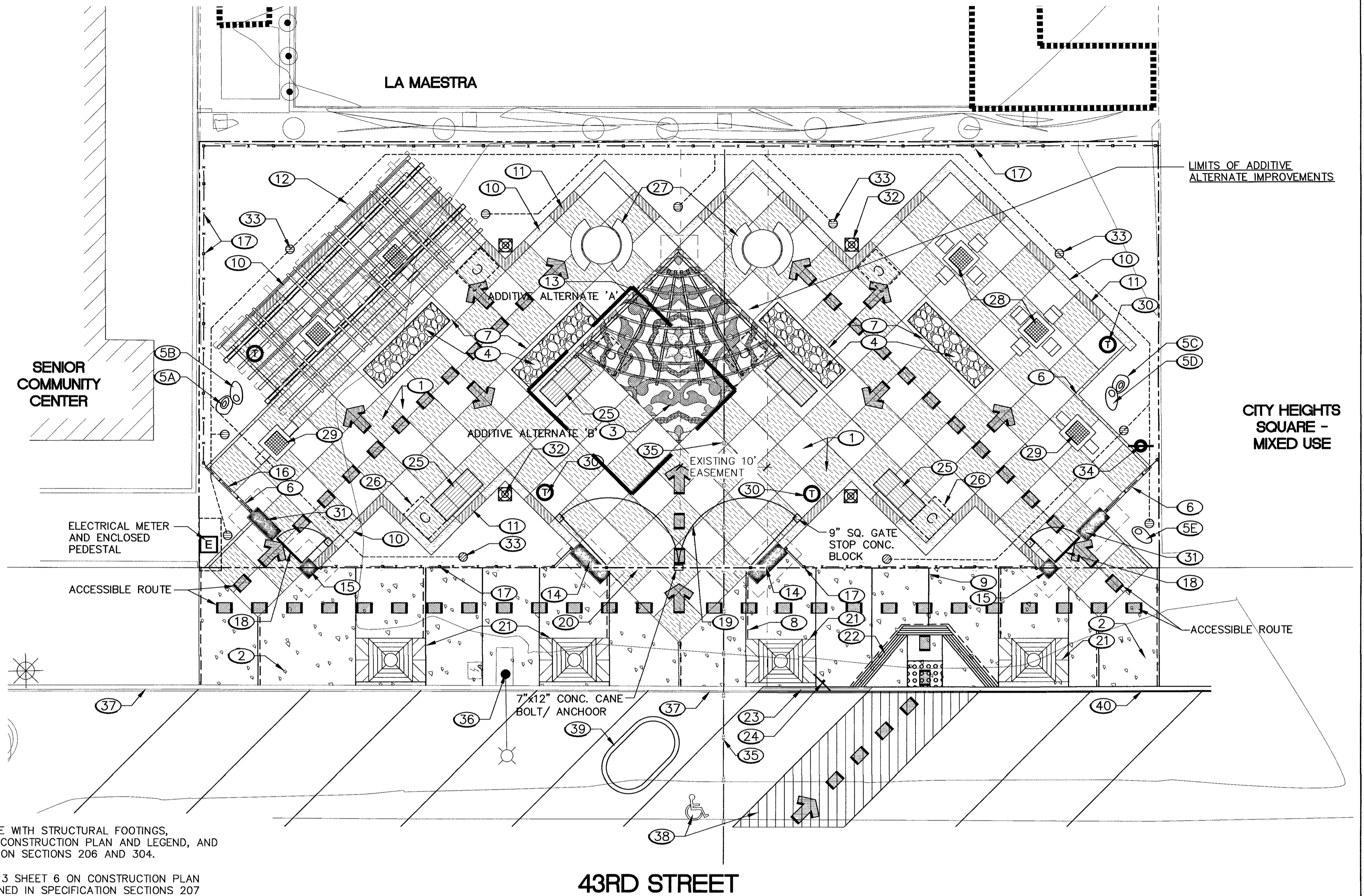
ADDITIVE ALTERNATES:

ADDITIVE ALTERNATE A: INSTALL STEEL TRELLIS STRUCTURE WITH STRUCTURAL FOOTINGS, COLUMNS AND PRECAST VENEERS. ITEM 13, SHEET 6 ON CONSTRUCTION PLAN AND LEGEND, AND AS SHOWN ON THE DRAWINGS AND DEFINED IN SPECIFICATION SECTIONS 206 AND 304.

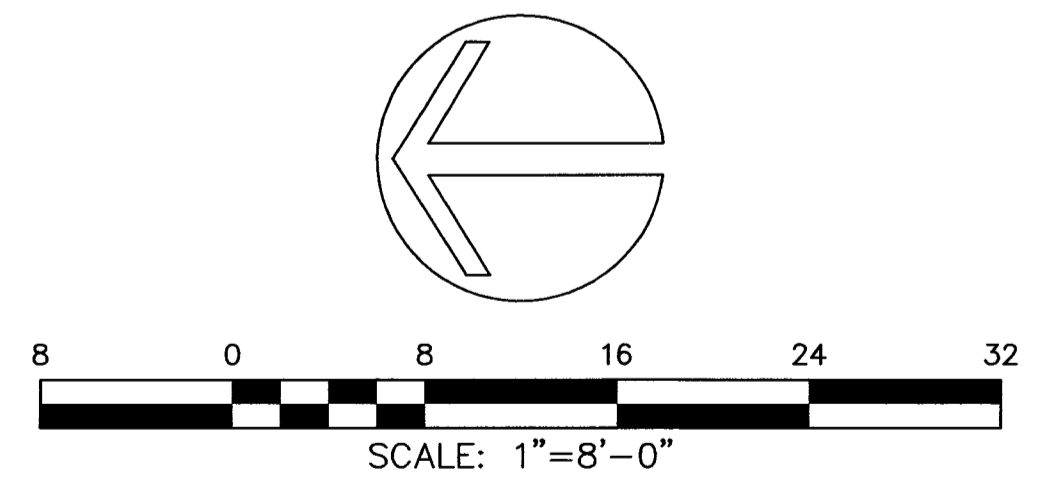
ADDITIVE ALTERNATE B: LITHORETE 'MOSAIC TILE', ITEM 3 SHEET 6 ON CONSTRUCTION PLAN AND LEGEND AND AS SHOWN ON THE DRAWINGS AND DEFINED IN SPECIFICATION SECTIONS 207 AND 309 FOR SPECIFIC RELATED WORK.

ADDITIVE ALTERNATE C: INSTALL CONCRETE PAVERS TO MATCH PROJECT PLAZA PAVING. SEE ITEM 1 IN CONSTRUCTION LEGEND, SHEET 6, AND AS SHOWN ON THE DRAWINGS AND DEFINED IN SPECIFICATION SECTIONS 207 AND 303-10 FOR SPECIFIC WORK RELATED TO CONCRETE PAVERS INSTALLATION.

33	PROVIDE AND INSTALL DRAIN INLET AND DRAIN LINE	A / SHT. 7 SEE SHEET 4, SEE SPECIFICATIONS	
34	PROVIDE AND INSTALL PET WASTE STATION	SEE SPECIFICATIONS	
35	EXISTING 18" RCP STORM DRAIN LINE TO REMAIN - PROTECT IN PLACE	SEE SPECIFICATIONS	
36	EXISTING TYPE 15 LIGHT TO REMAIN - PROTECT IN PLACE	SEE SHEET 3	
37	EXISTING CURB - PROTECT IN PLACE	SEE SHEET 3	
38	INSTALL DISABLED PARKING PAVEMENT SYMBOL AND STRIPING	SDSD M-117 SEE SHEET 3	
39	ISLAND PLANTER WITH 6" CONCRETE CURB	SEE SHEET 3	
40	CONSTRUCT CURB AND GUTTER	SEE SHEET 3	



SEE SHEET 7 THRU 10 FOR CONSTRUCTION DETAILS.
SEE SHEET 3 FOR RIGHT OF WAY IMPROVEMENTS.
SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



Estrada Land Planning
Urban Design/Landscape Architecture
Computer Mapping
480 236 0483
755 Broadway Circle, Suite 820
San Diego, California 92101-6801
619.236.0278 Fax
ELP@estrada-land.com

CITY CONTRACT **C-1**

PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK CONSTRUCTION PLAN AND LEGEND

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 6 OF 21 SHEETS

APPROVED: *Samir M* 9/4/12
FOR CITY ENGINEER DATE

DESIGNED BY: *W. Estrada*
DATE: 8/30/12

WATER WBS: S-01070
SEWER WBS: S-01070
SUBMITTED BY: *W. Estrada*
PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP		8/30/12	

SECTION HEAD: 210-1737
CCS87 COORDINATE: 1850-6298
CCS88 COORDINATE: 36416- 6-D

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

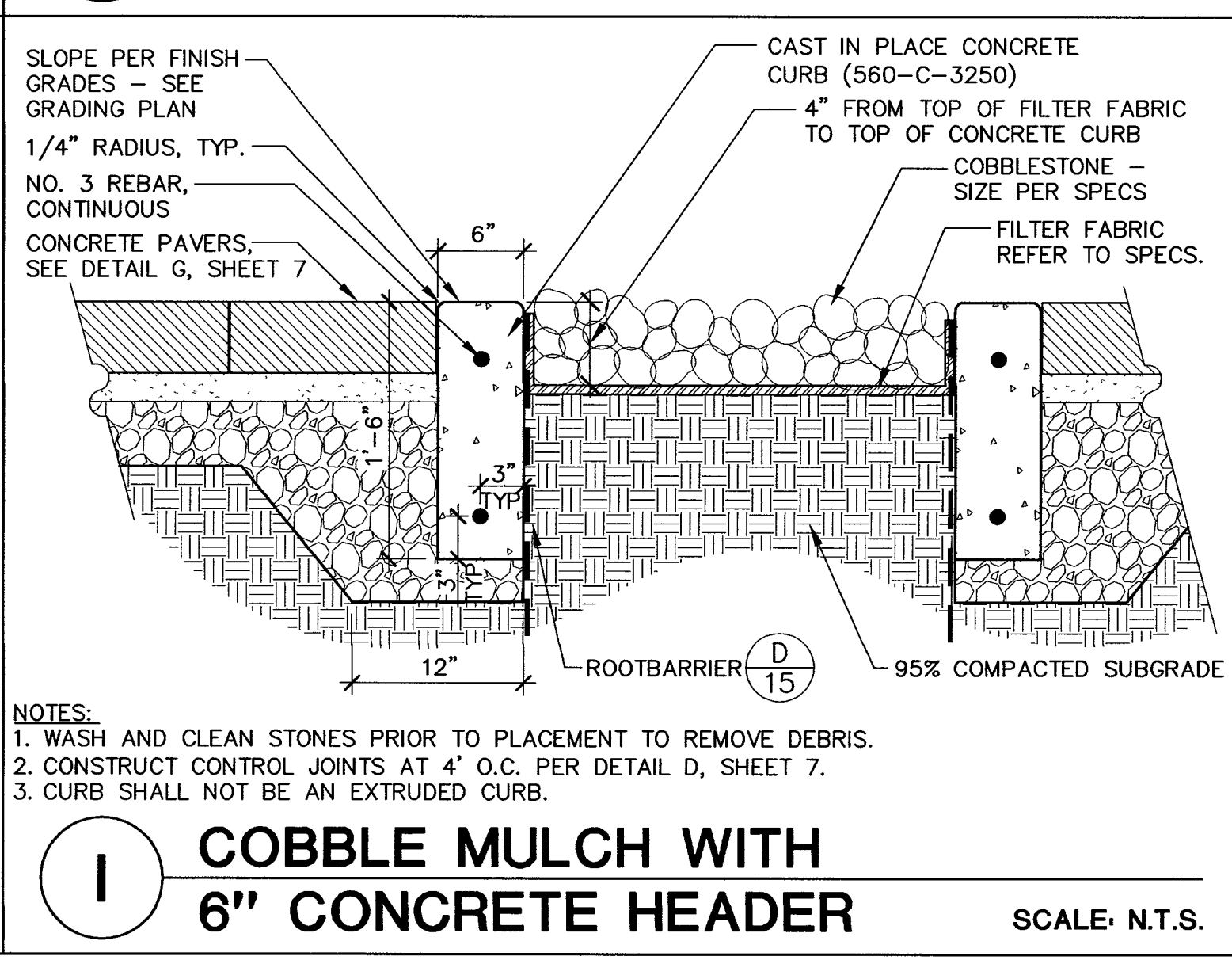
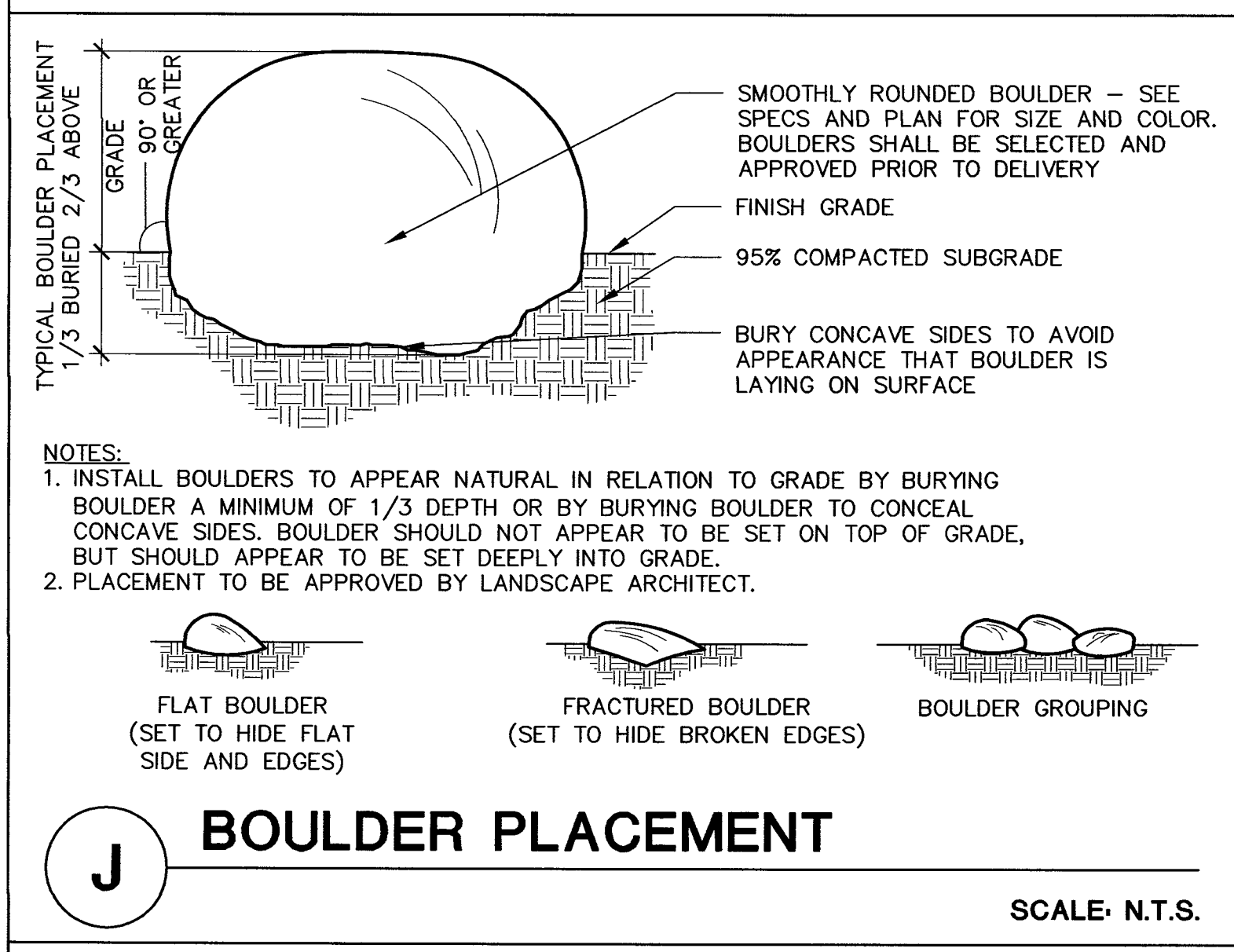
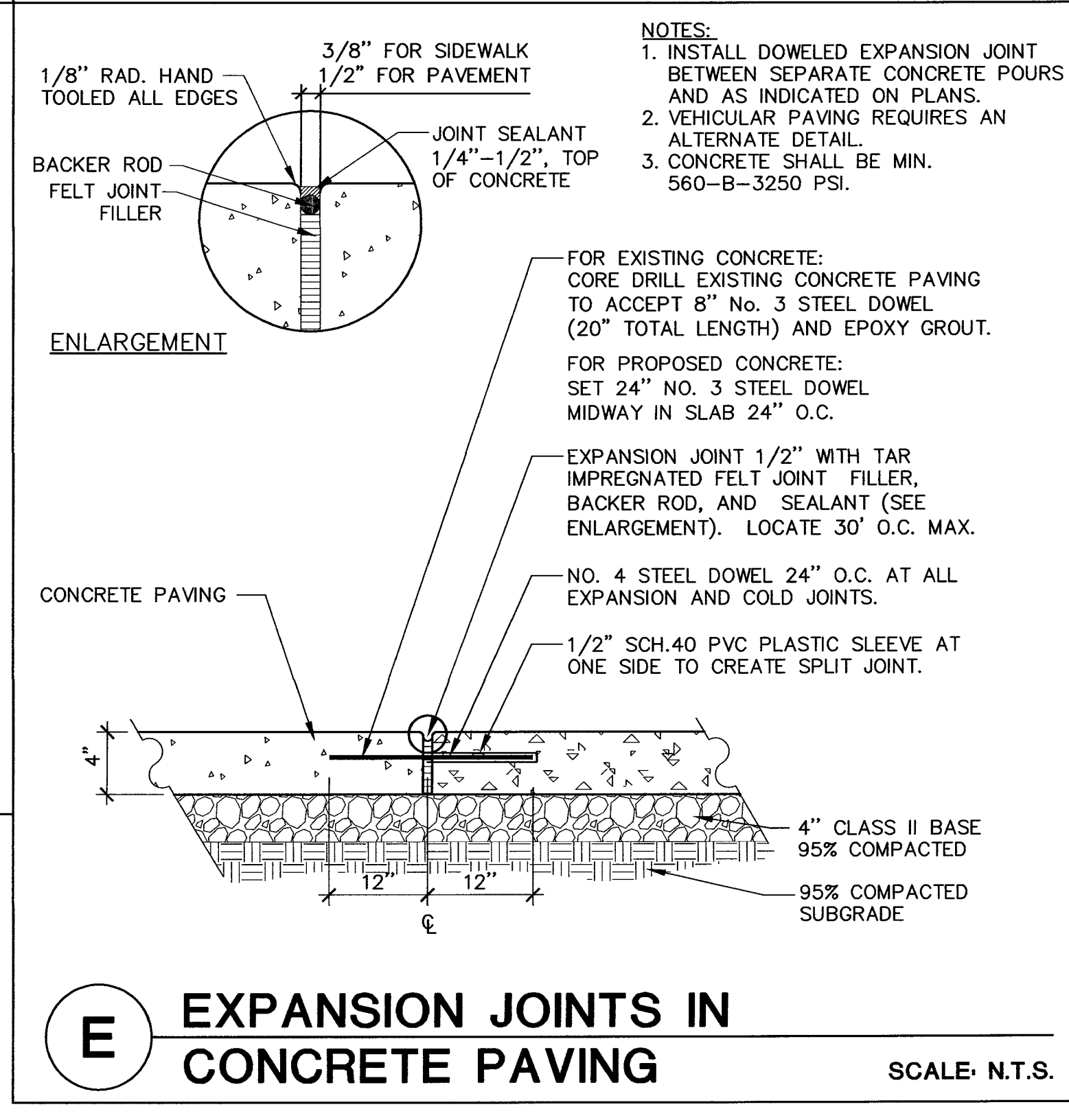
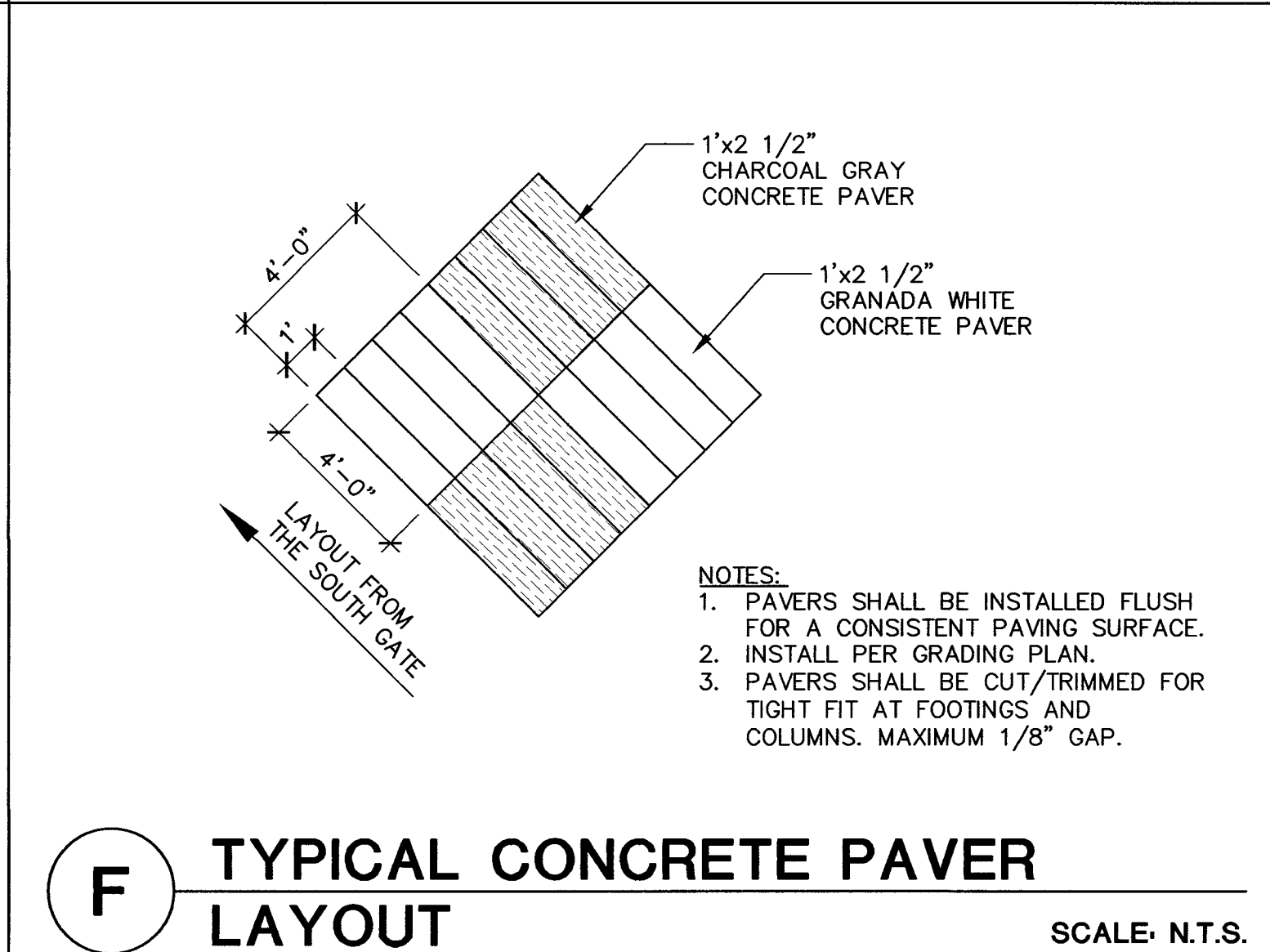
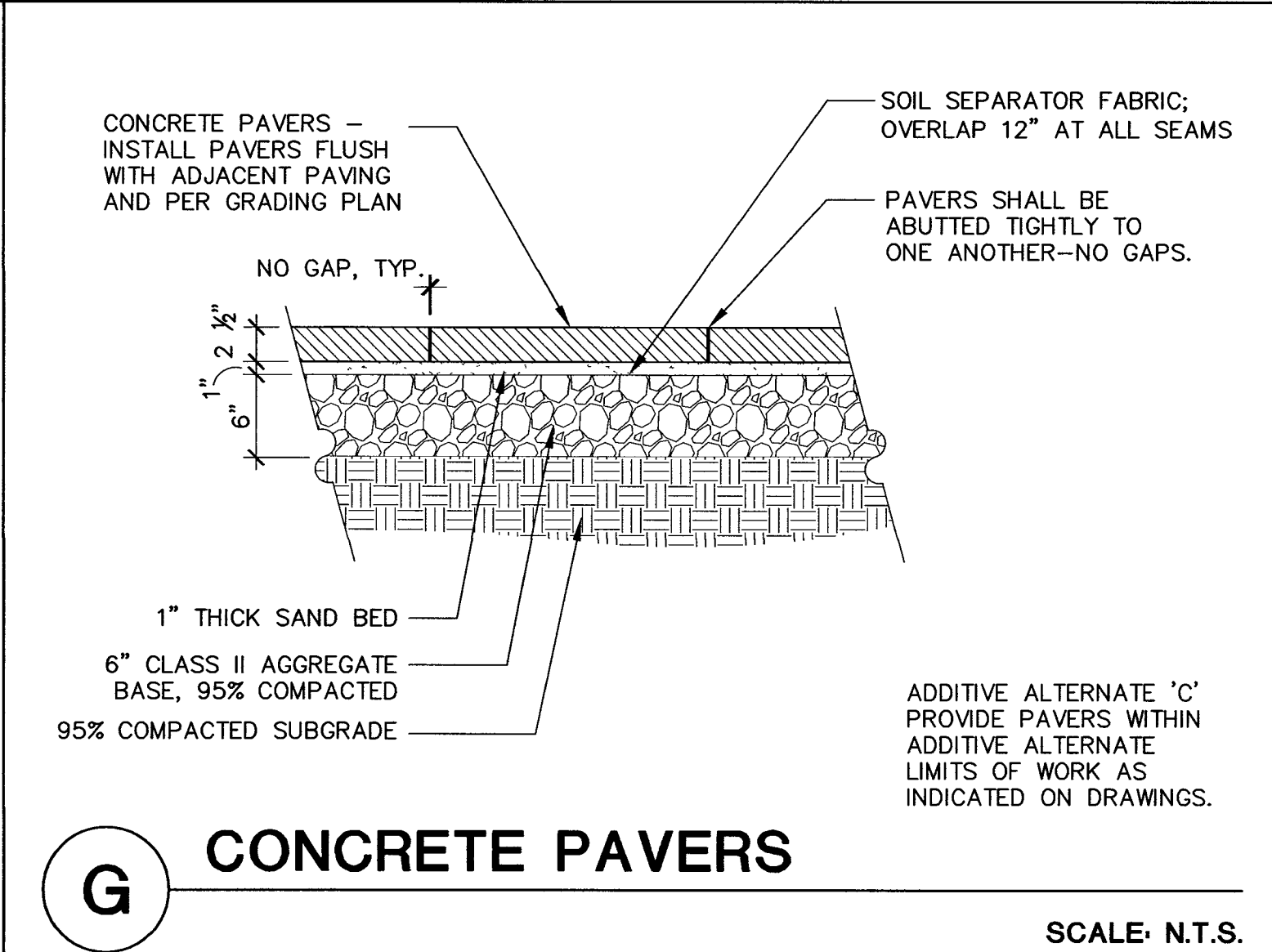
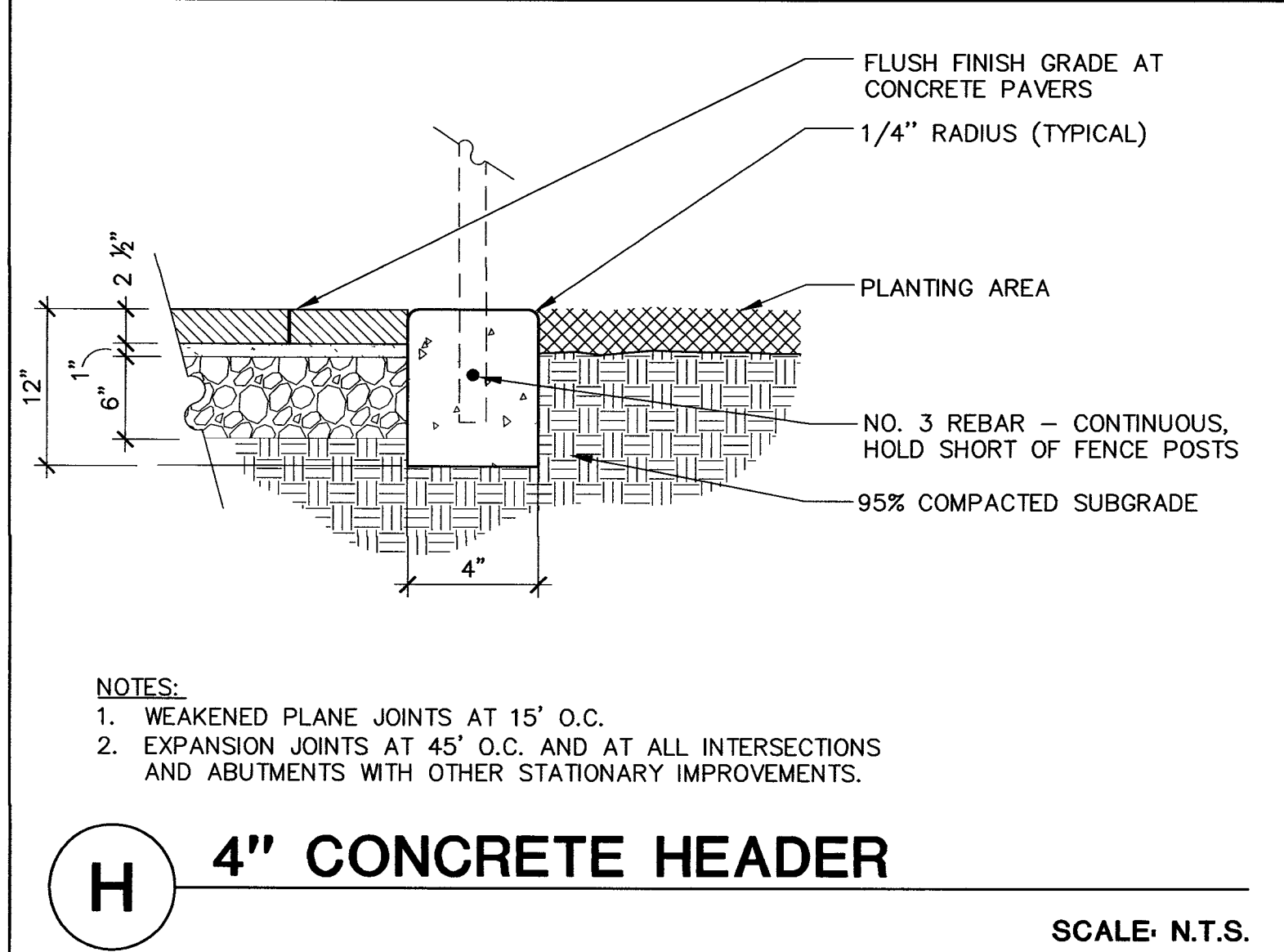
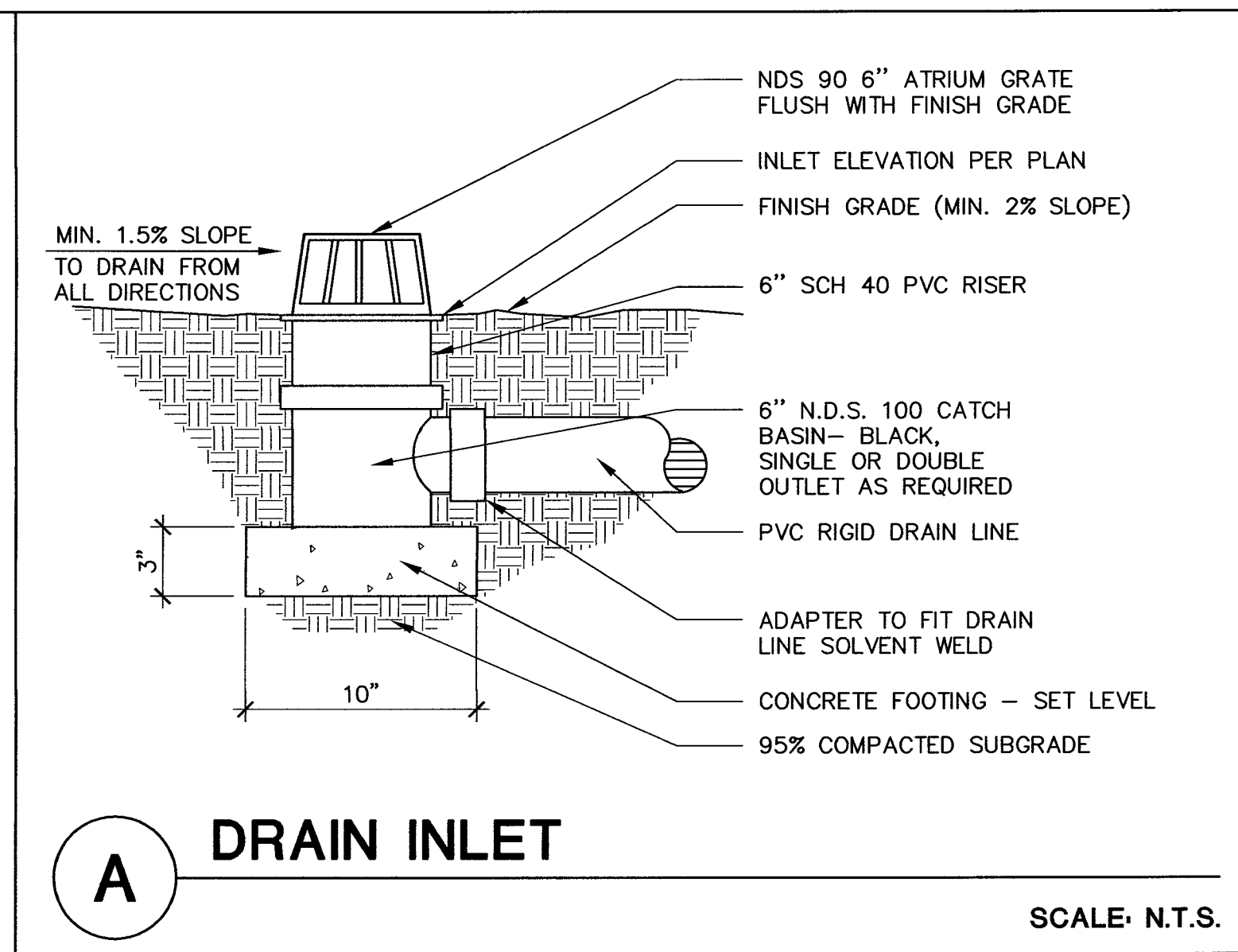
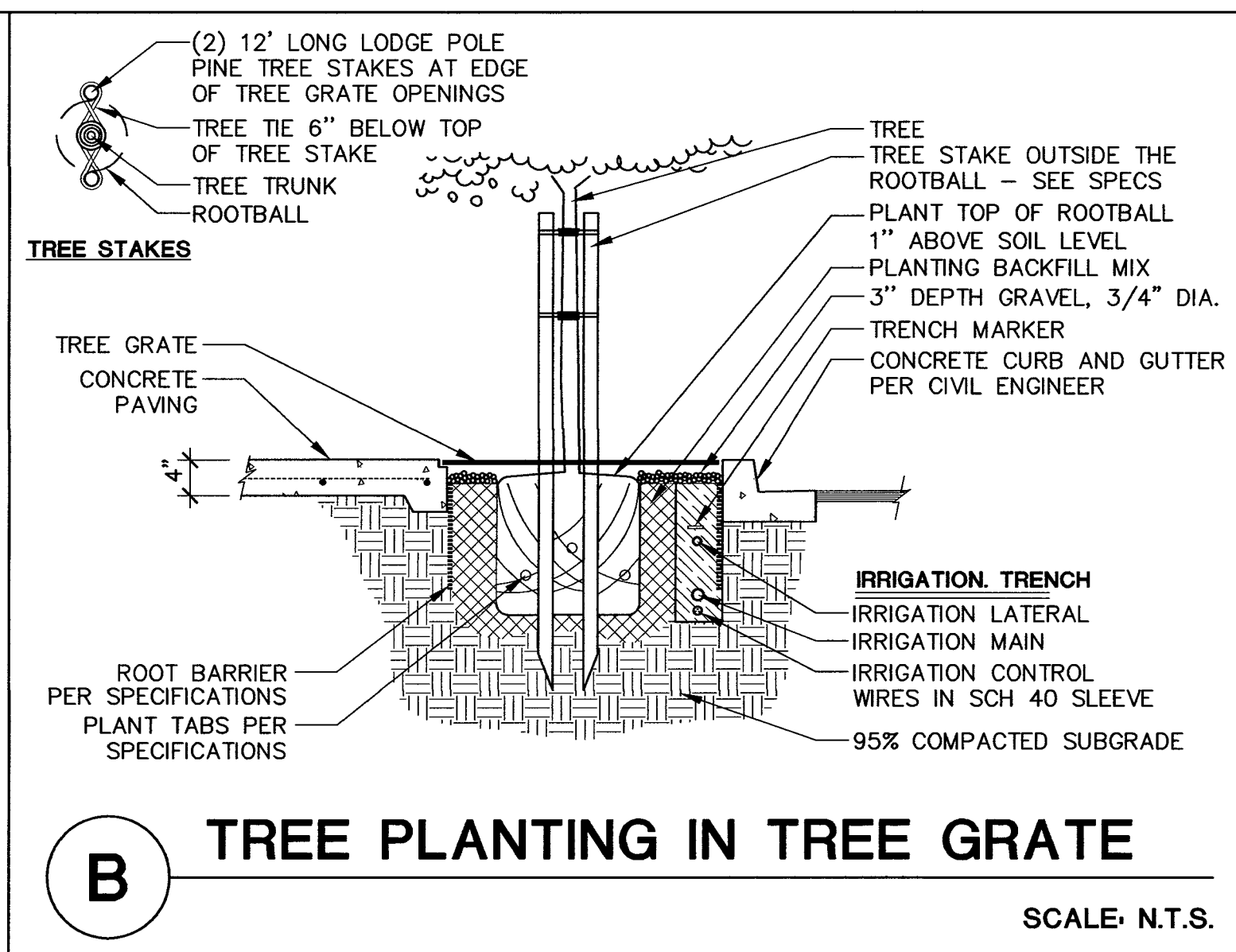
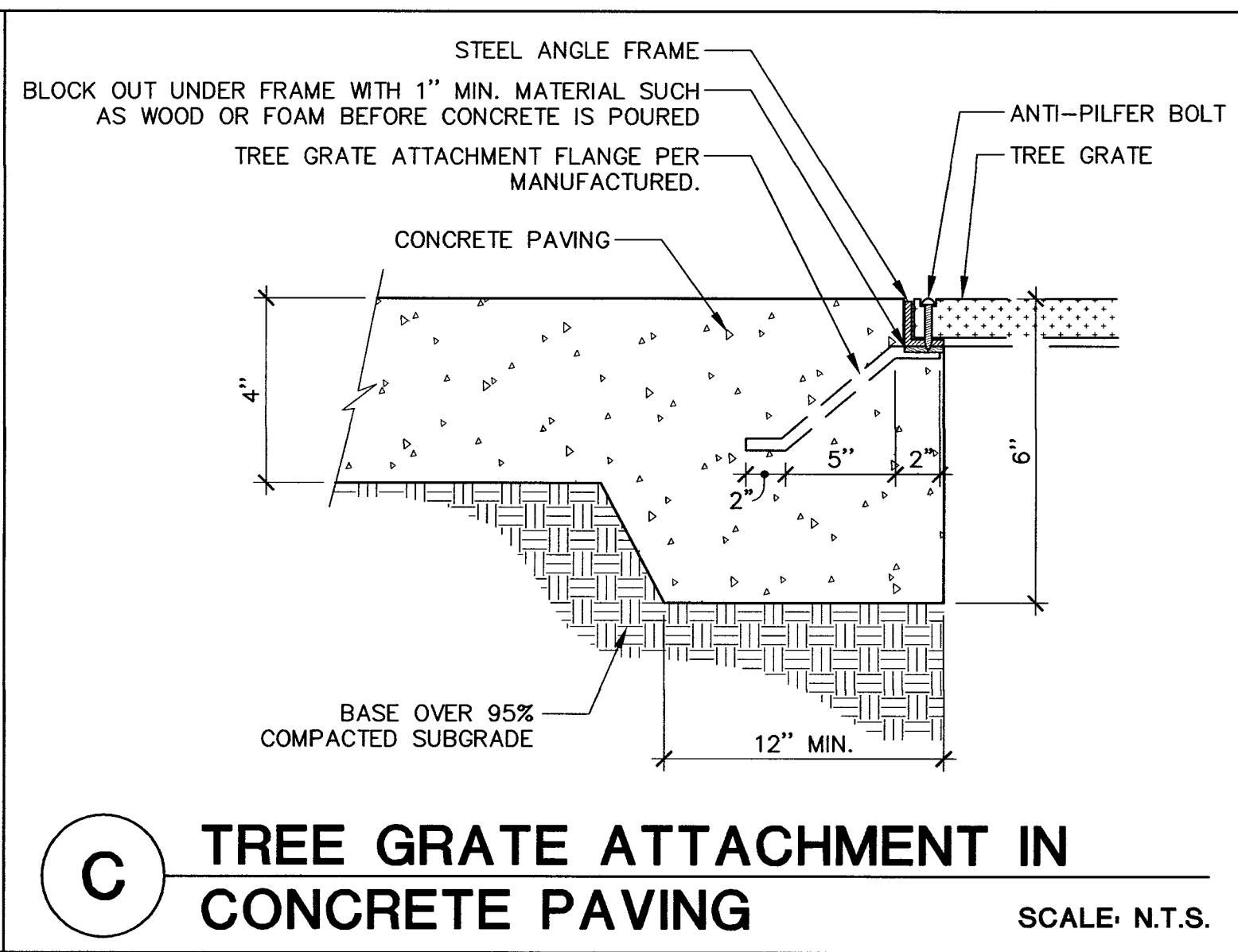
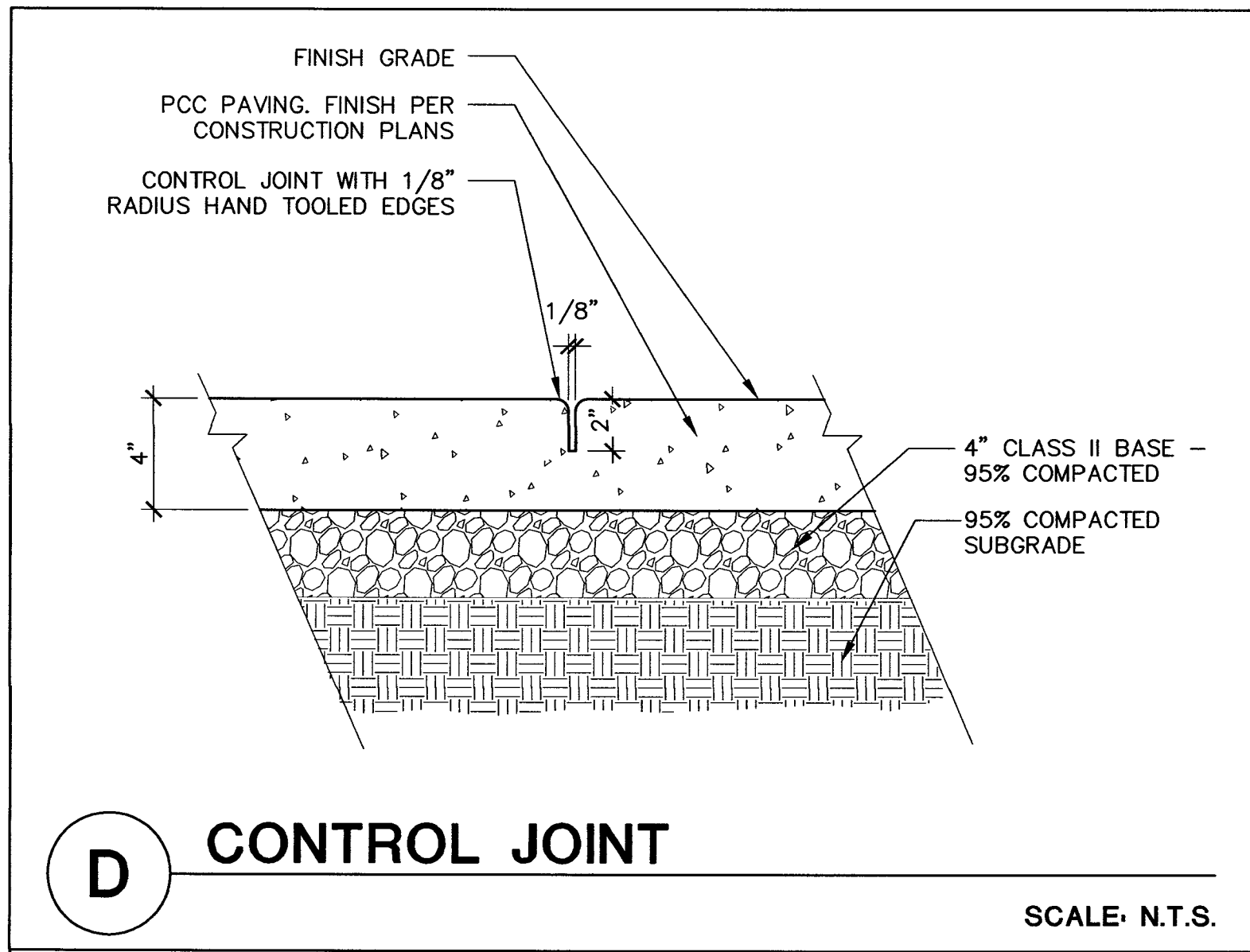
TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____ SPEC NO. 5456

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

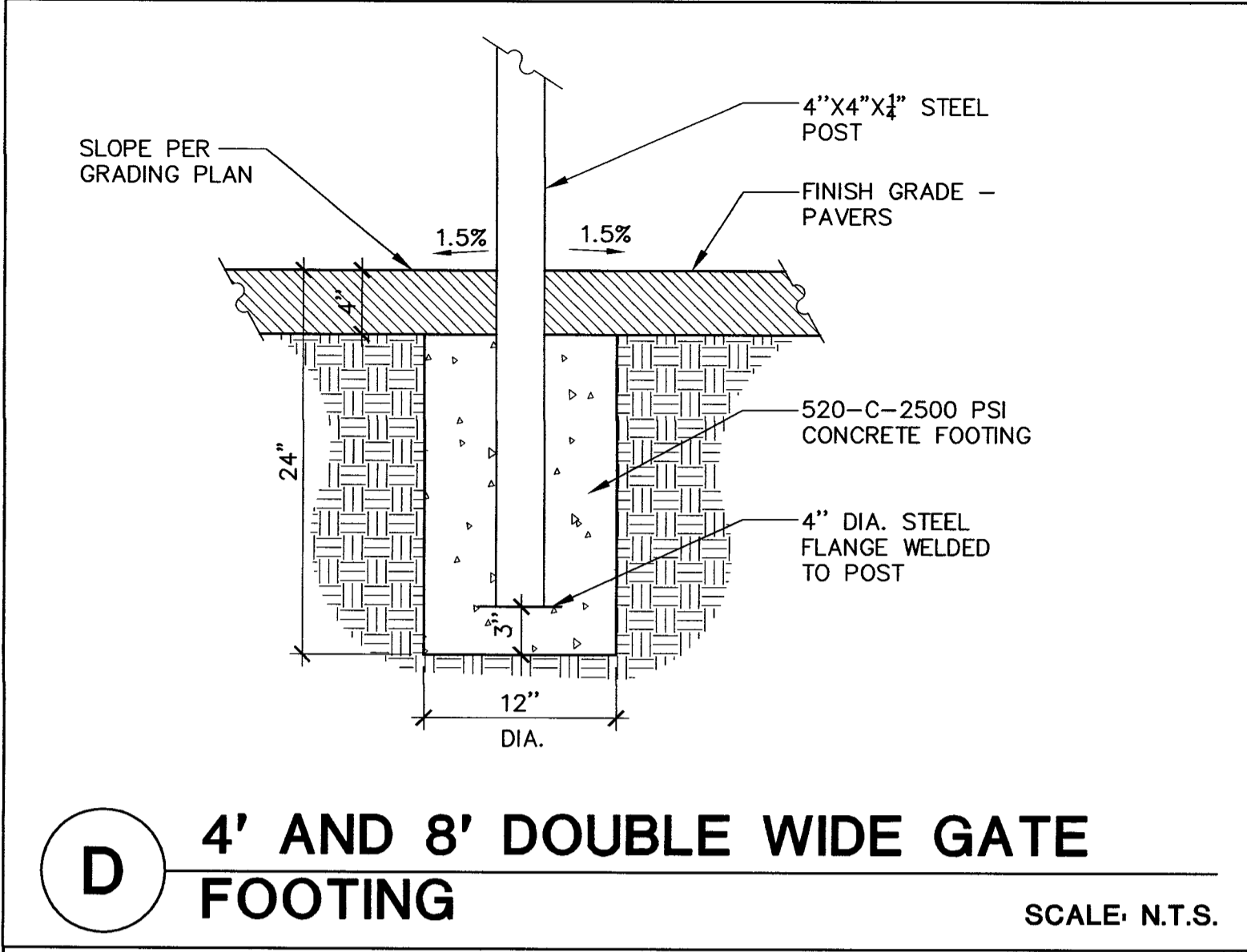


CITY HEIGHTS SQUARE MINI PARK

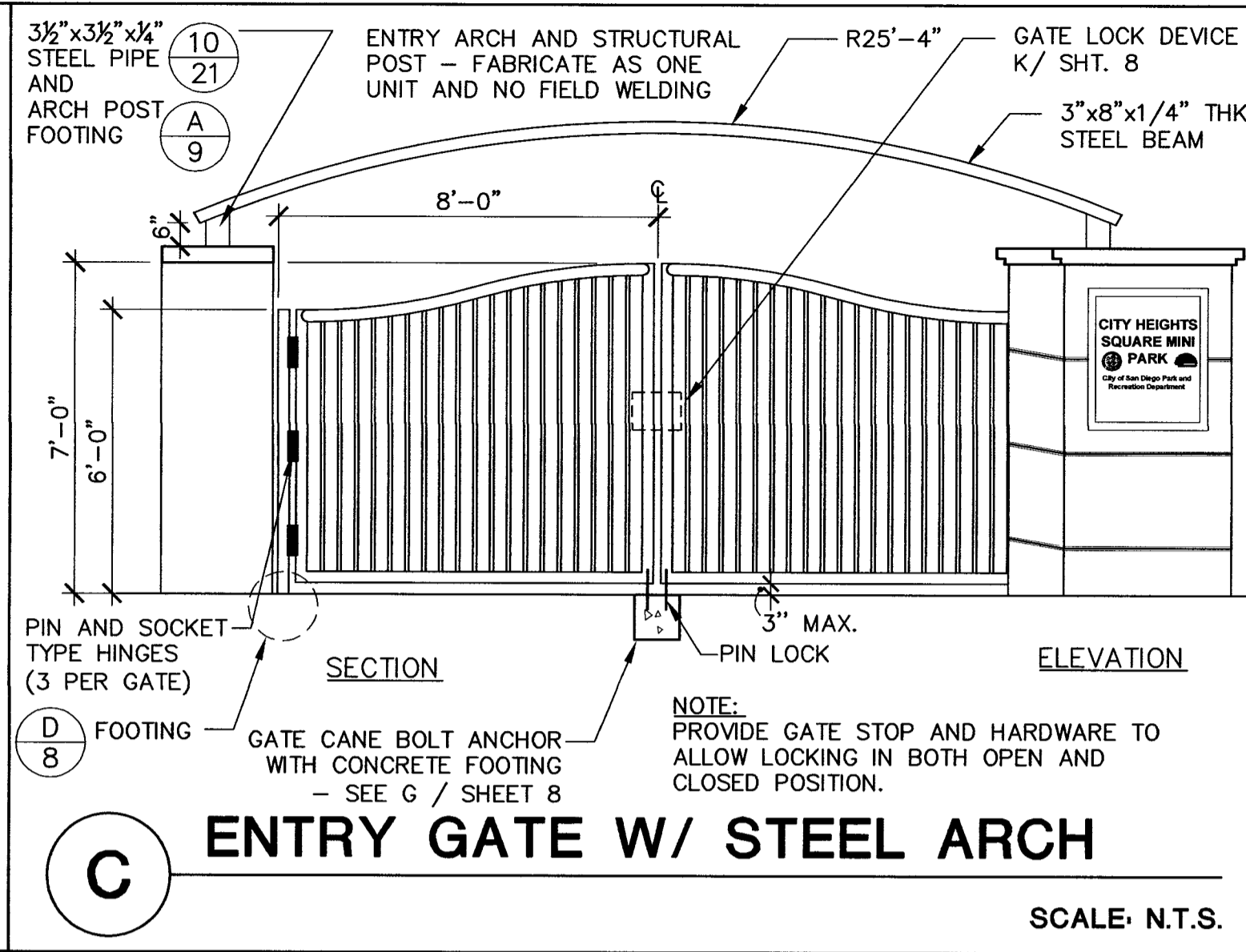


AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

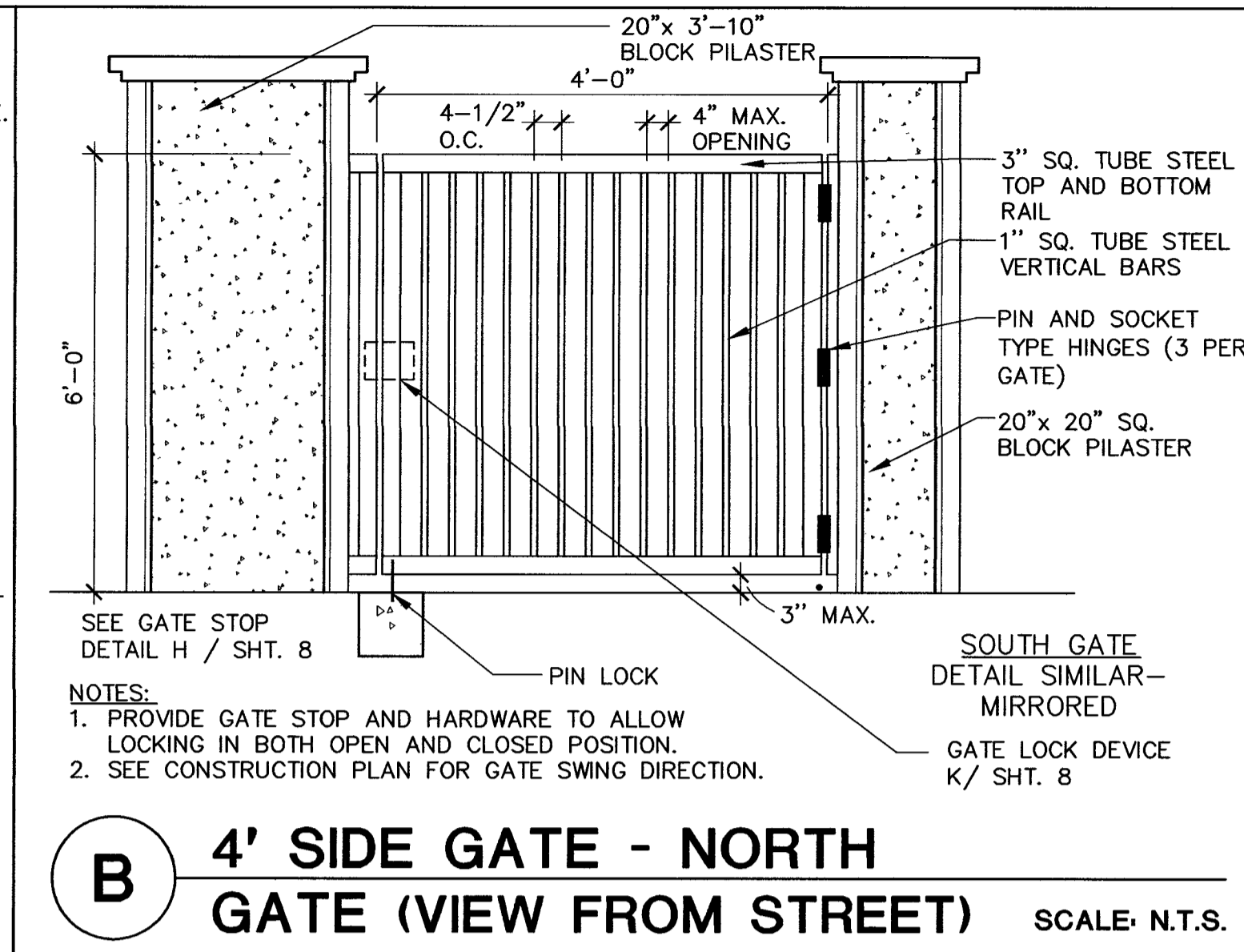
CITY CONTRACT		CD-1
PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK CONSTRUCTION DETAILS		
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 7 OF 21 SHEETS		WATER WBS: S-01070
APPROVED FOR CITY ENGINEER: <i>Samuel M. [Signature]</i>	DATE: 9/14/12	DESIGNED BY: A. CORSI PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: ELP	APPROVED: 8/30/12
SECTION HEAD: 210-1737		CCS27 COORDINATE: 1850-6298
CONTRACTOR: _____ DATE STARTED: _____		CC883 COORDINATE: 36416-7-D
INSPECTOR: _____ DATE COMPLETED: _____		



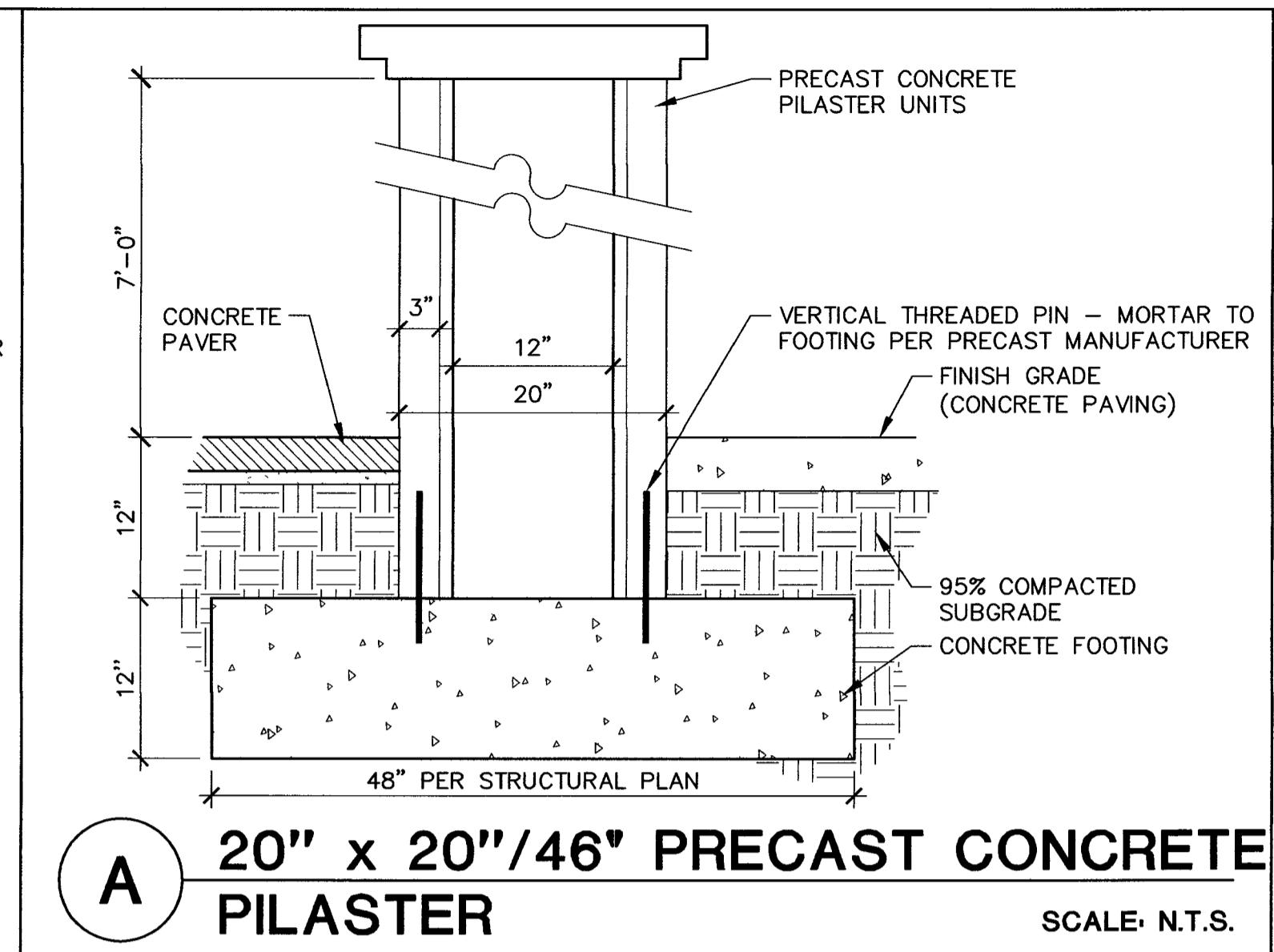
D 4' AND 8' DOUBLE WIDE GATE FOOTING SCALE: N.T.S.



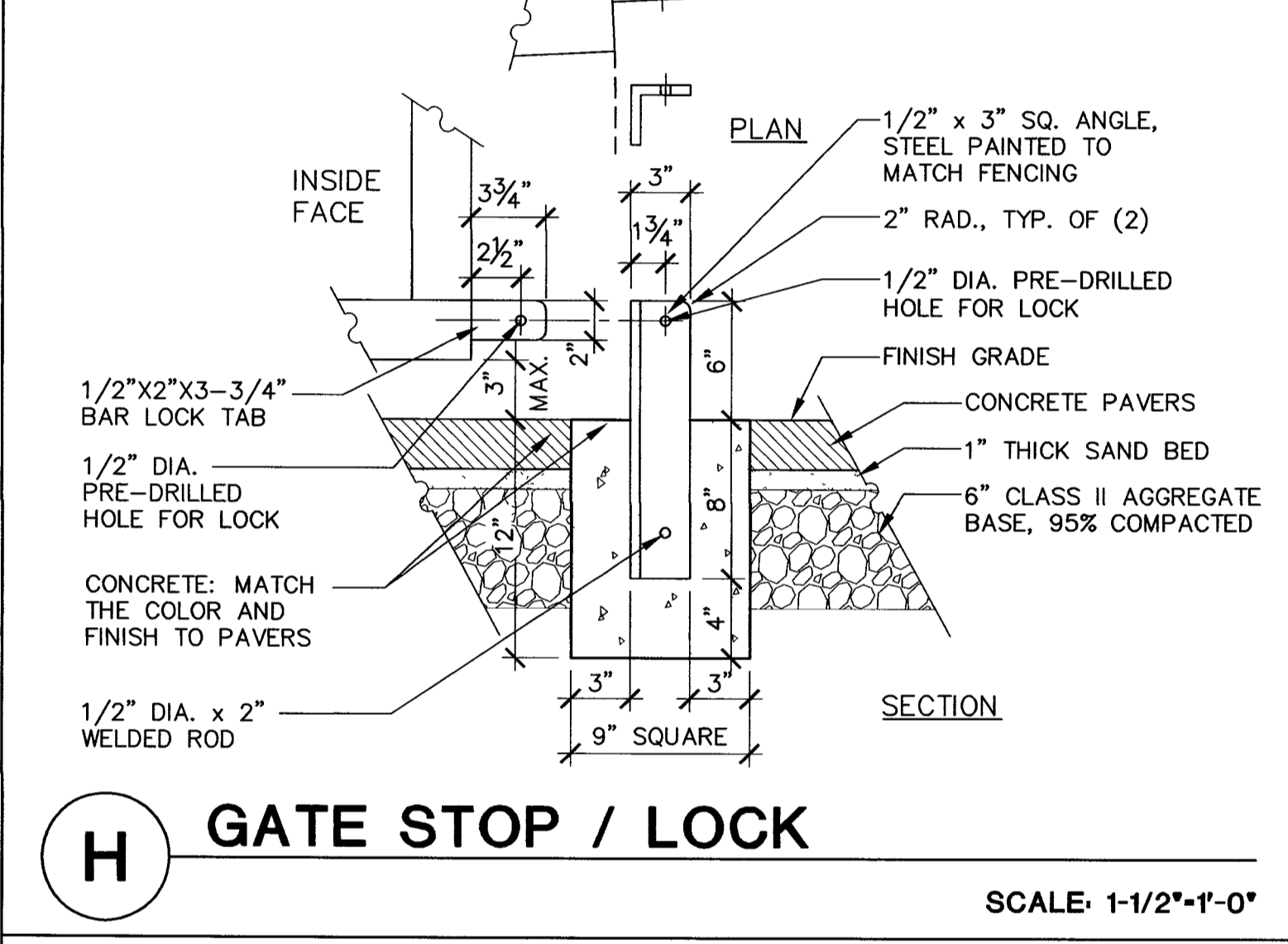
C ENTRY GATE W/ STEEL ARCH SCALE: N.T.S.



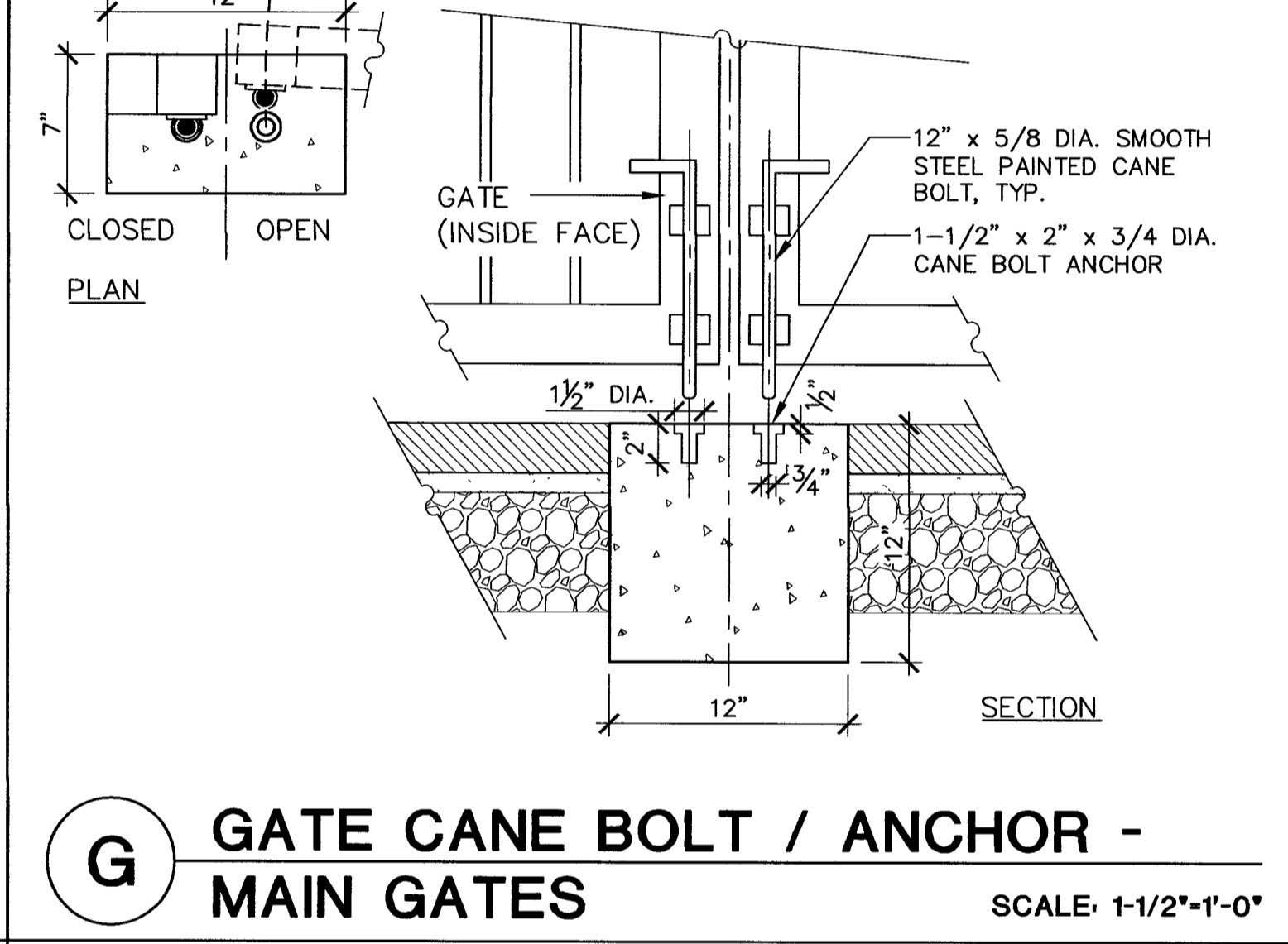
B 4' SIDE GATE - NORTH GATE (VIEW FROM STREET) SCALE: N.T.S.



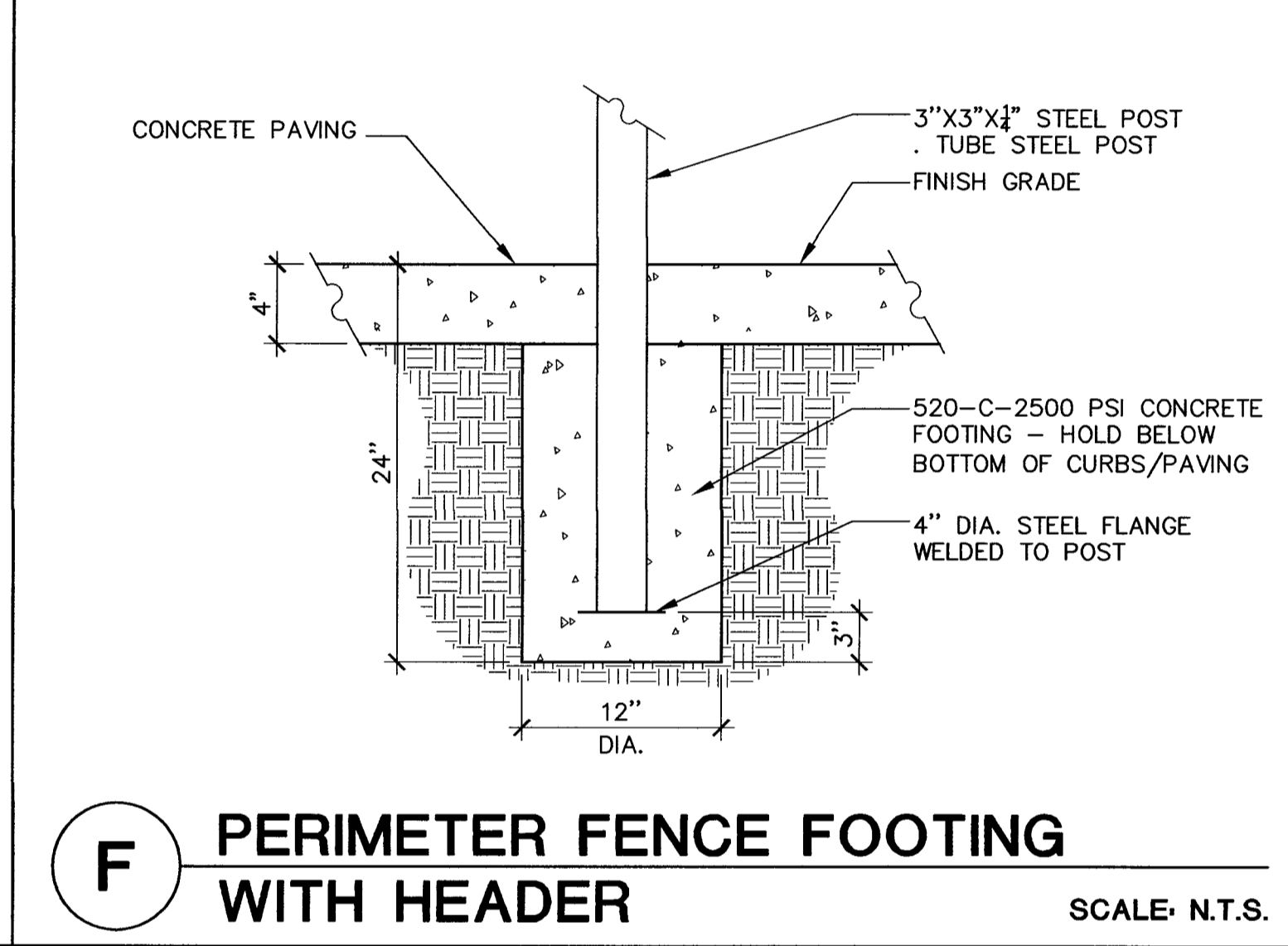
A 20\"/>



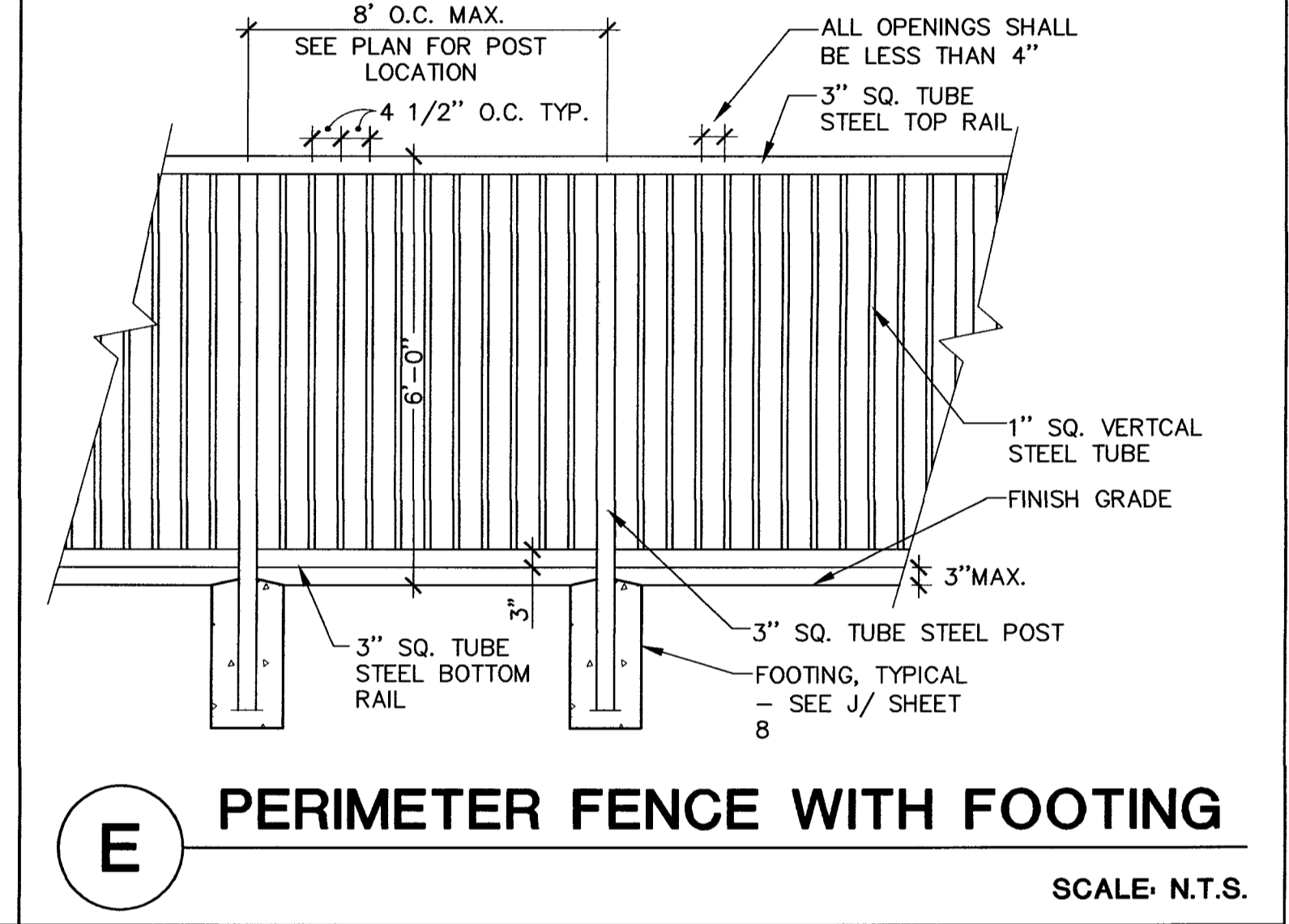
H GATE STOP / LOCK SCALE: 1-1/2\"/>



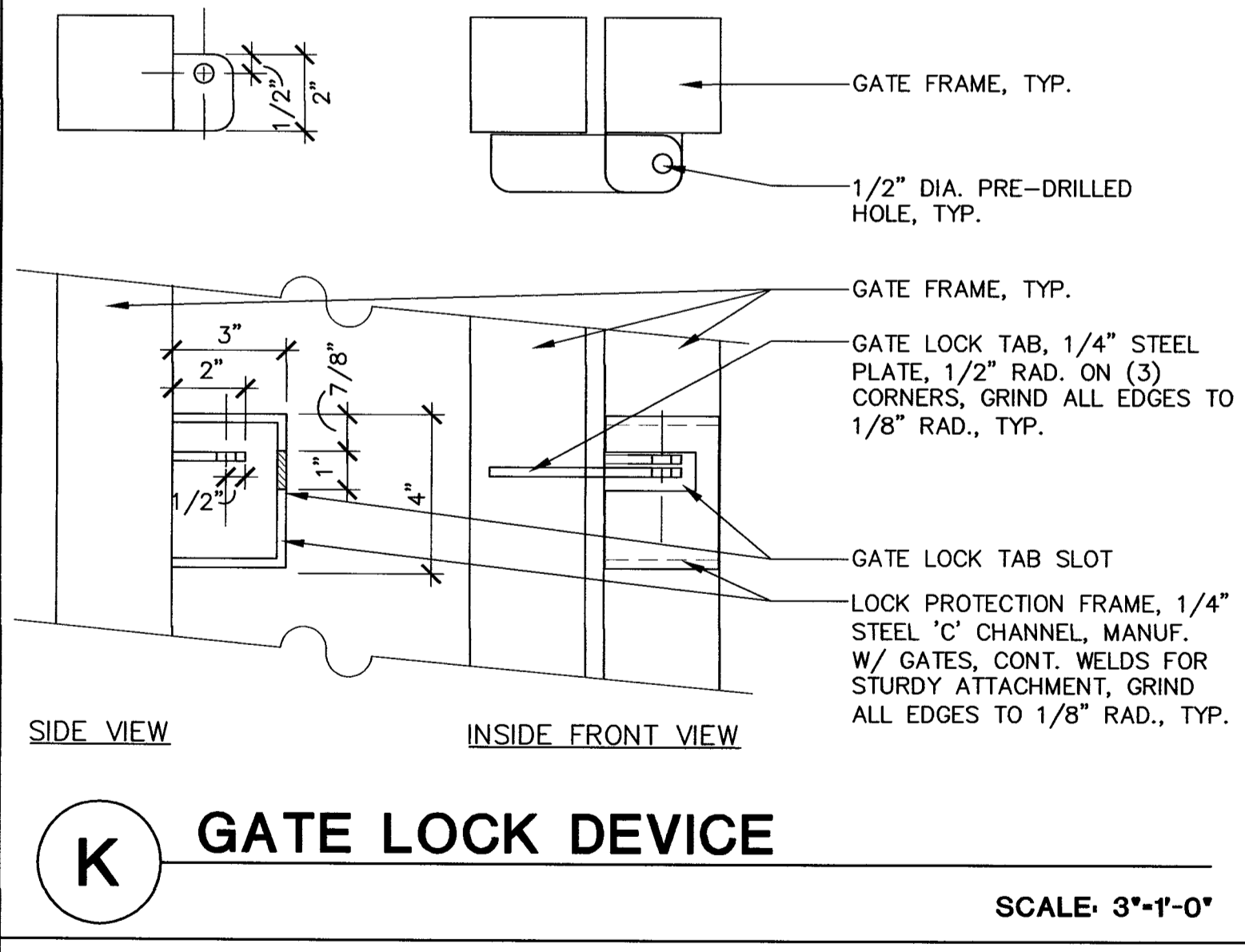
G GATE CANE BOLT / ANCHOR - MAIN GATES SCALE: 1-1/2\"/>



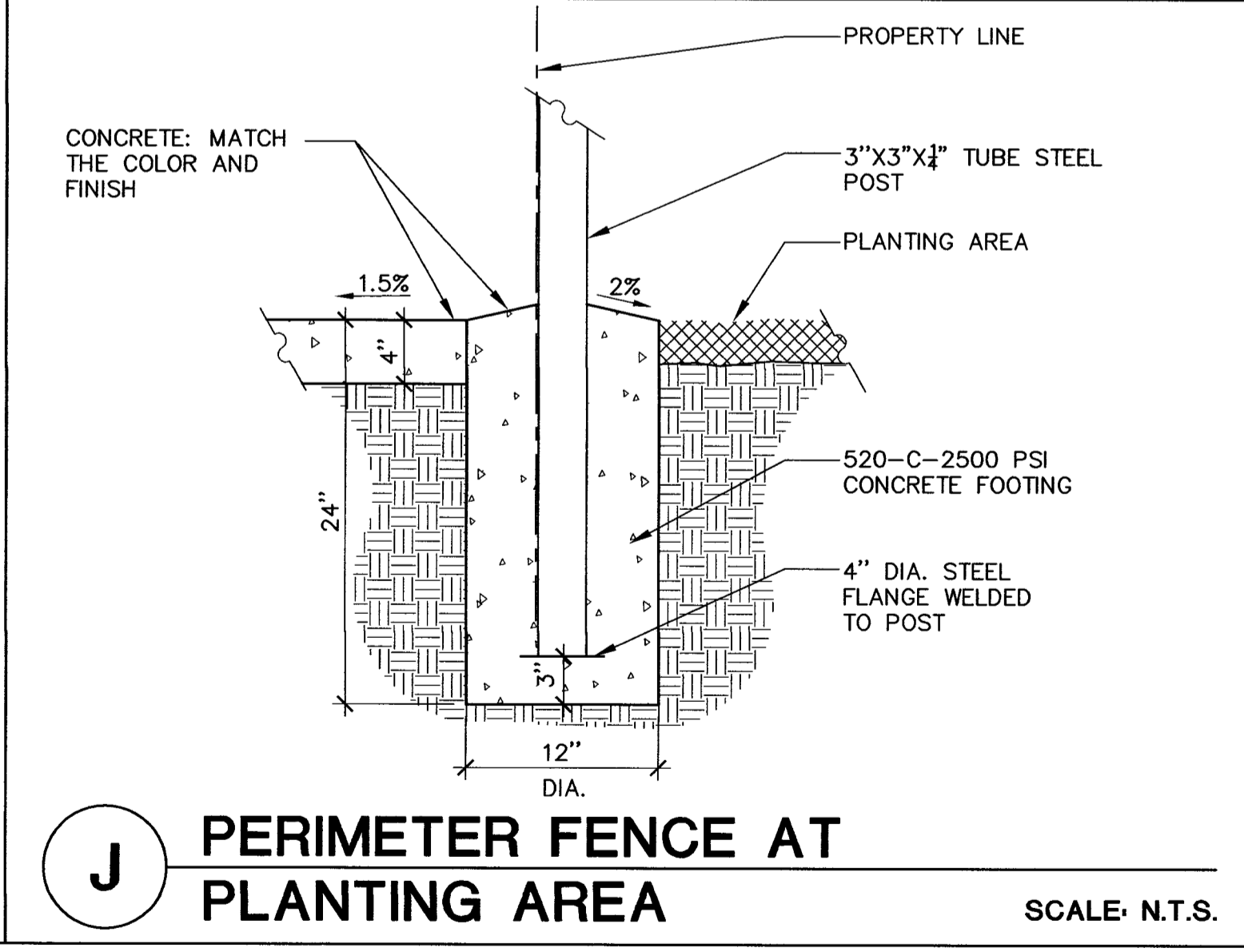
F PERIMETER FENCE FOOTING WITH HEADER SCALE: N.T.S.



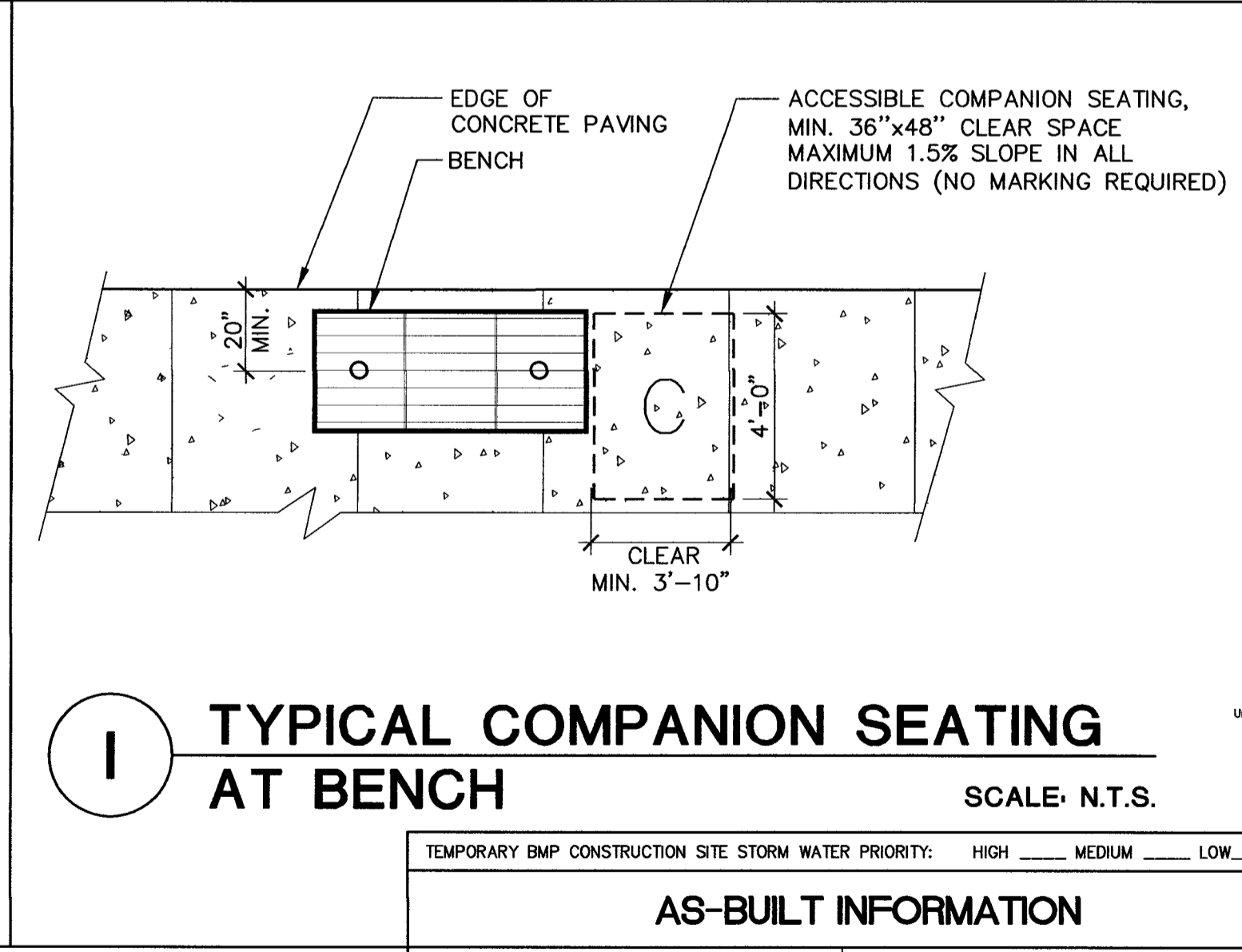
E PERIMETER FENCE WITH FOOTING SCALE: N.T.S.



K GATE LOCK DEVICE SCALE: 3\"/>



J PERIMETER FENCE AT PLANTING AREA SCALE: N.T.S.



I TYPICAL COMPANION SEATING AT BENCH SCALE: N.T.S.

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM LOW		SPEC. NO.: 5456
AS-BUILT INFORMATION		
MATERIALS	MANUFACTURER	
PIPE CL. 235 (WATER)	-	
PIPE SDR 35 (SEWER)	-	
GATE VALVES	-	
FIRE HYDRANTS	-	
SEWER MANHOLES	-	
REHABILITATE SEWER MANHOLES	-	
REHABILITATE SEWER MAIN	-	

Estrada Land Planning
Urban Design Landscape Architecture
755 Broadway Circle Suite 300
San Diego, California 92101-9911
619.298.0463
www.estradaandplan.com

CITY CONTRACT CD-2

PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK CONSTRUCTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 8 OF 21 SHEETS

APPROVED: *Sam M* 9/11/12
FOR CITY ENGINEER DATE

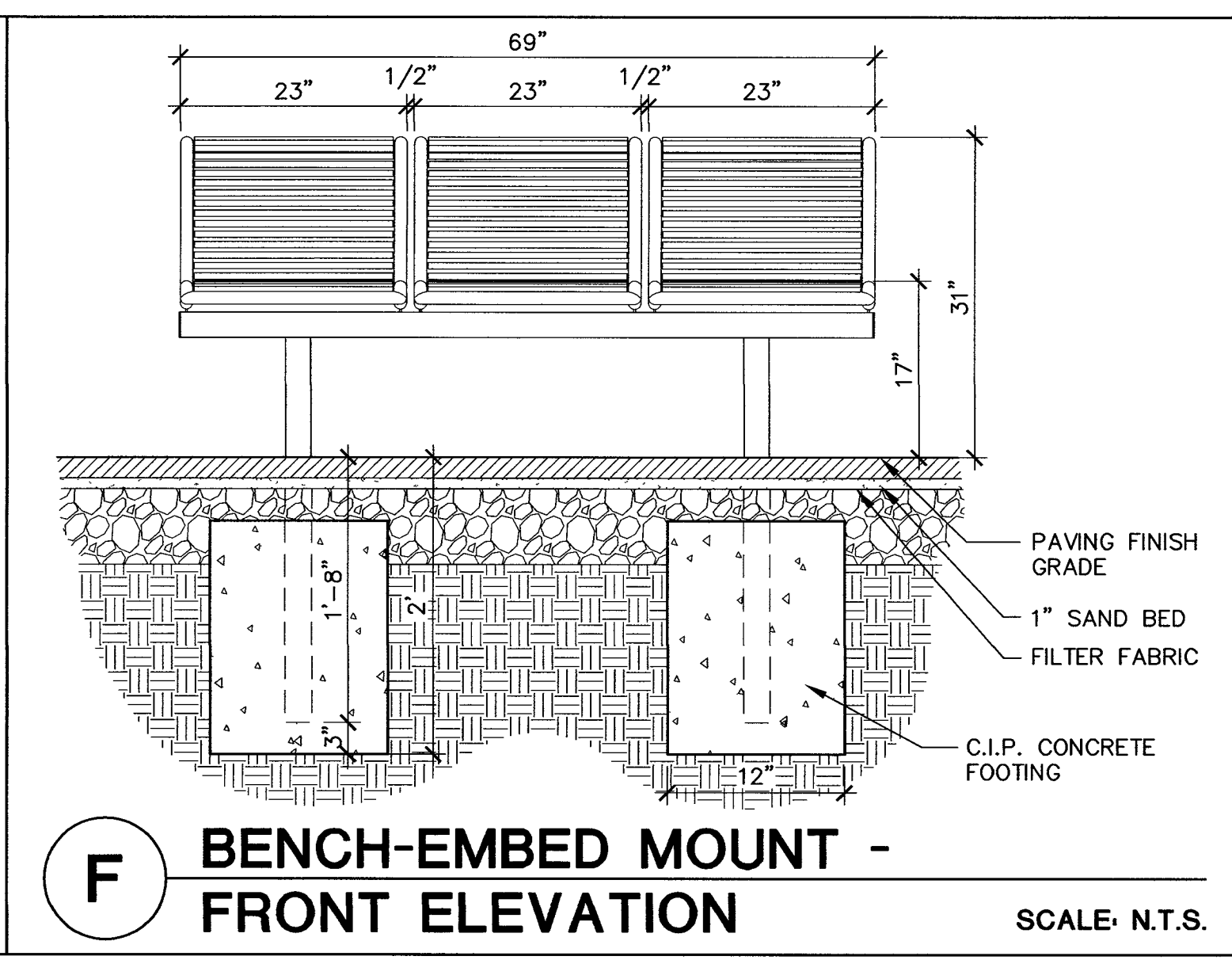
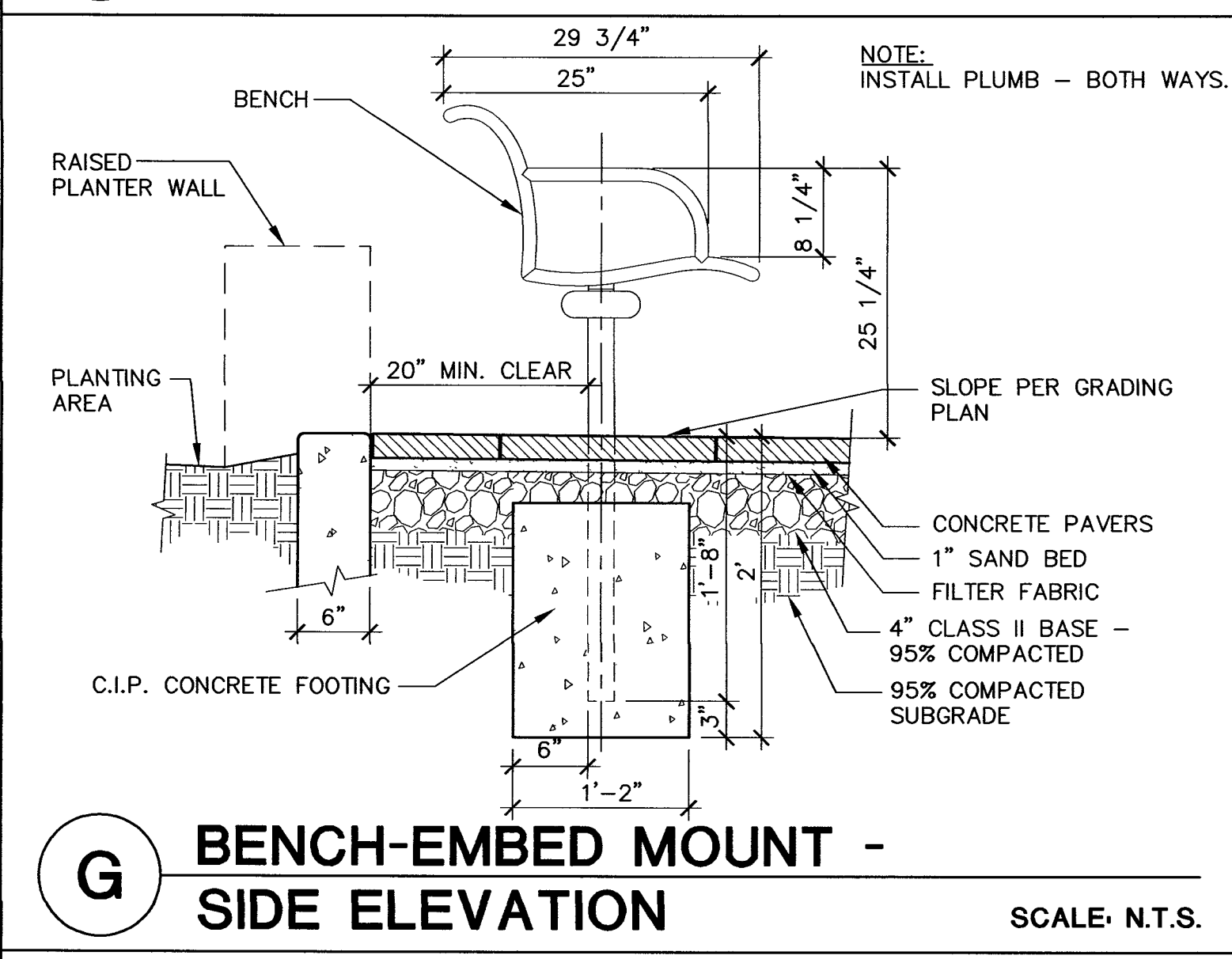
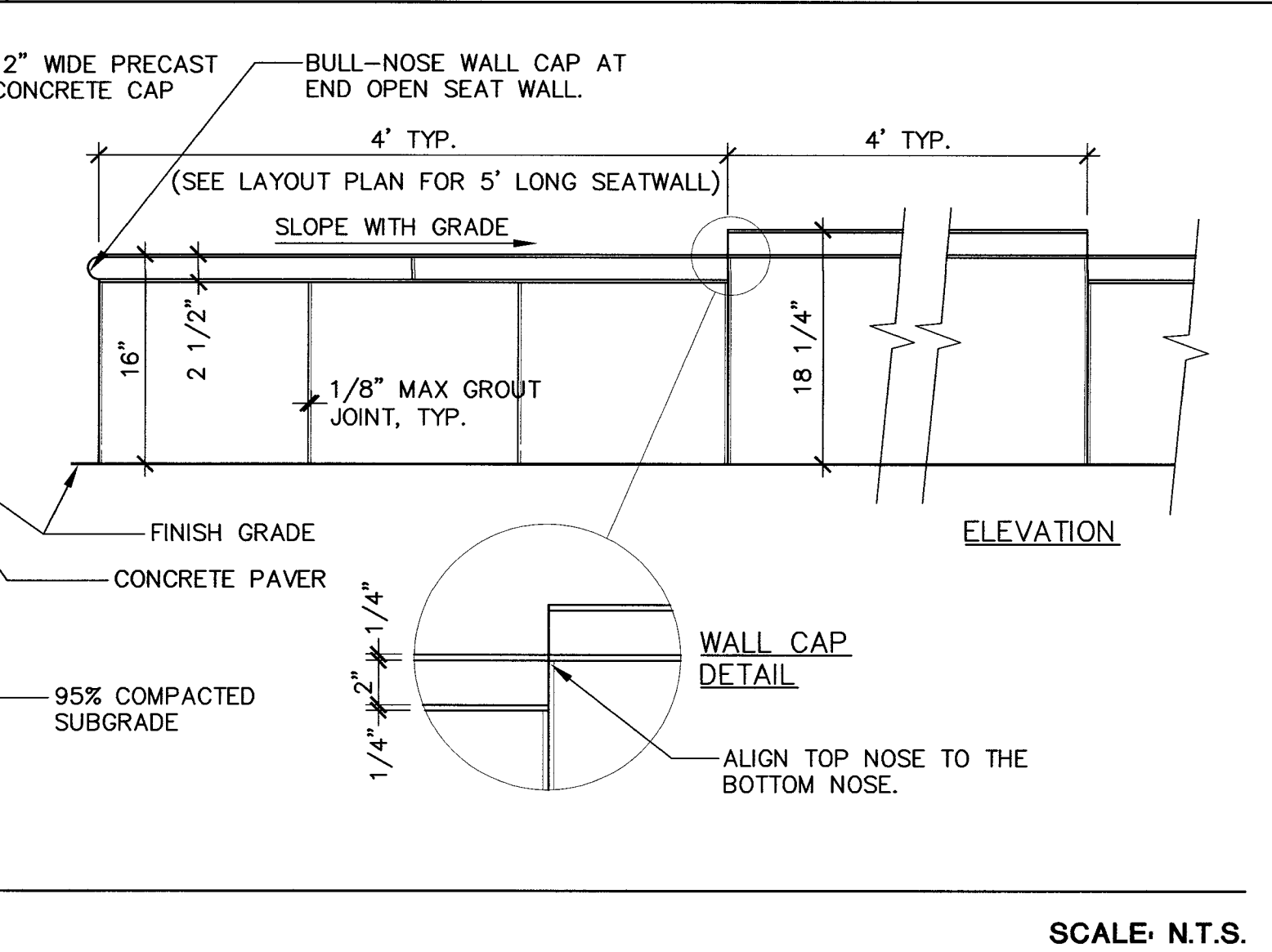
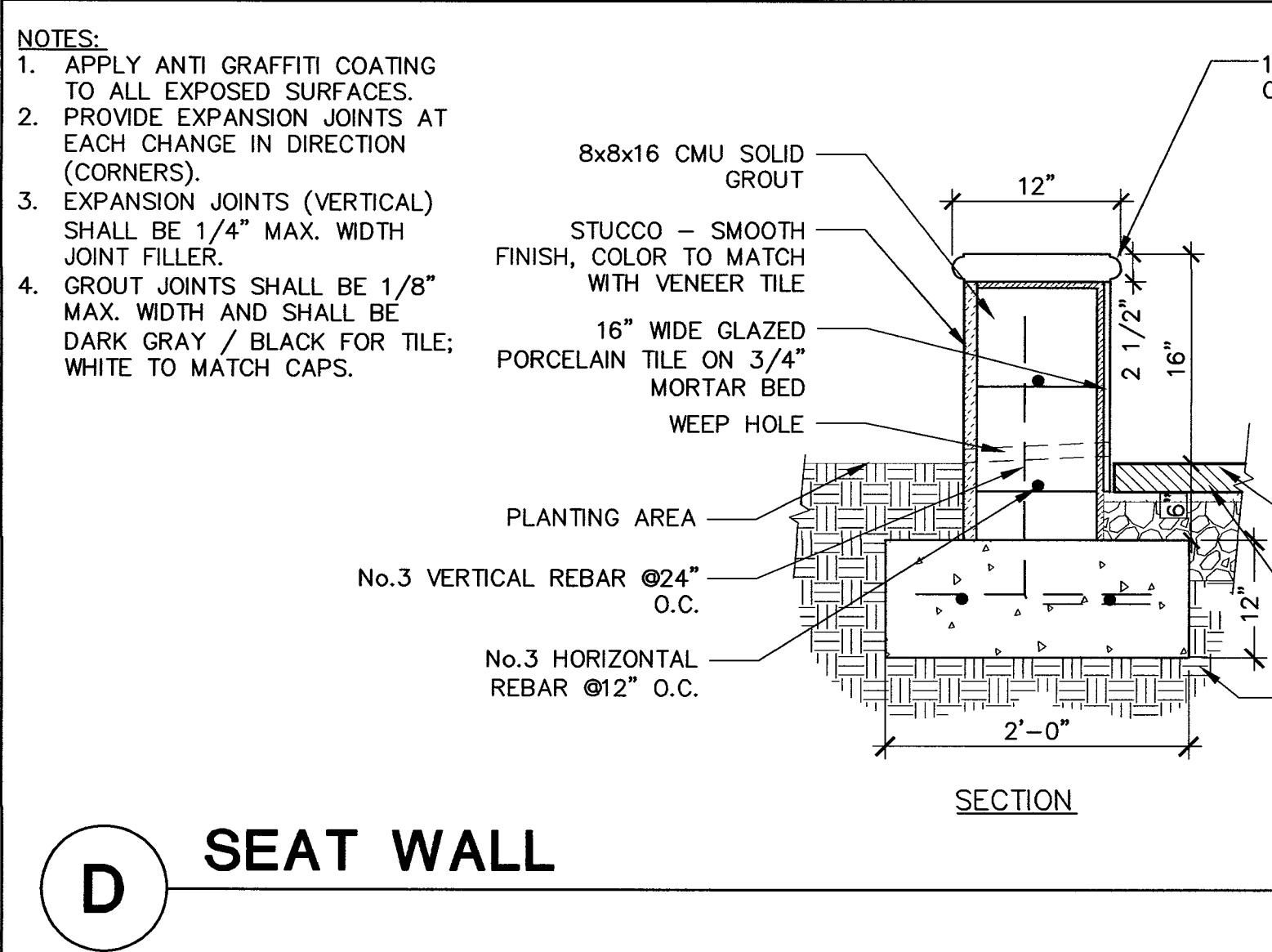
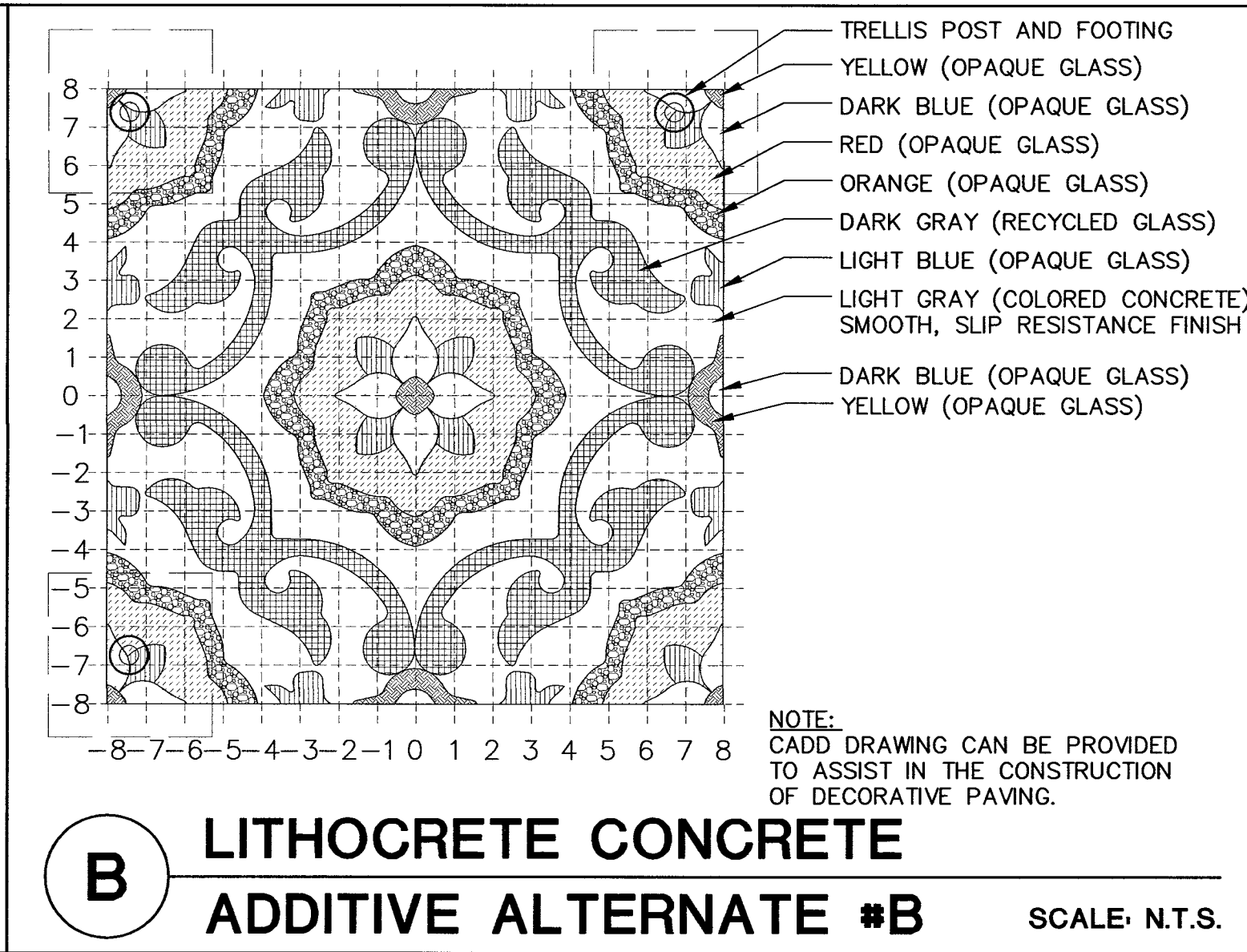
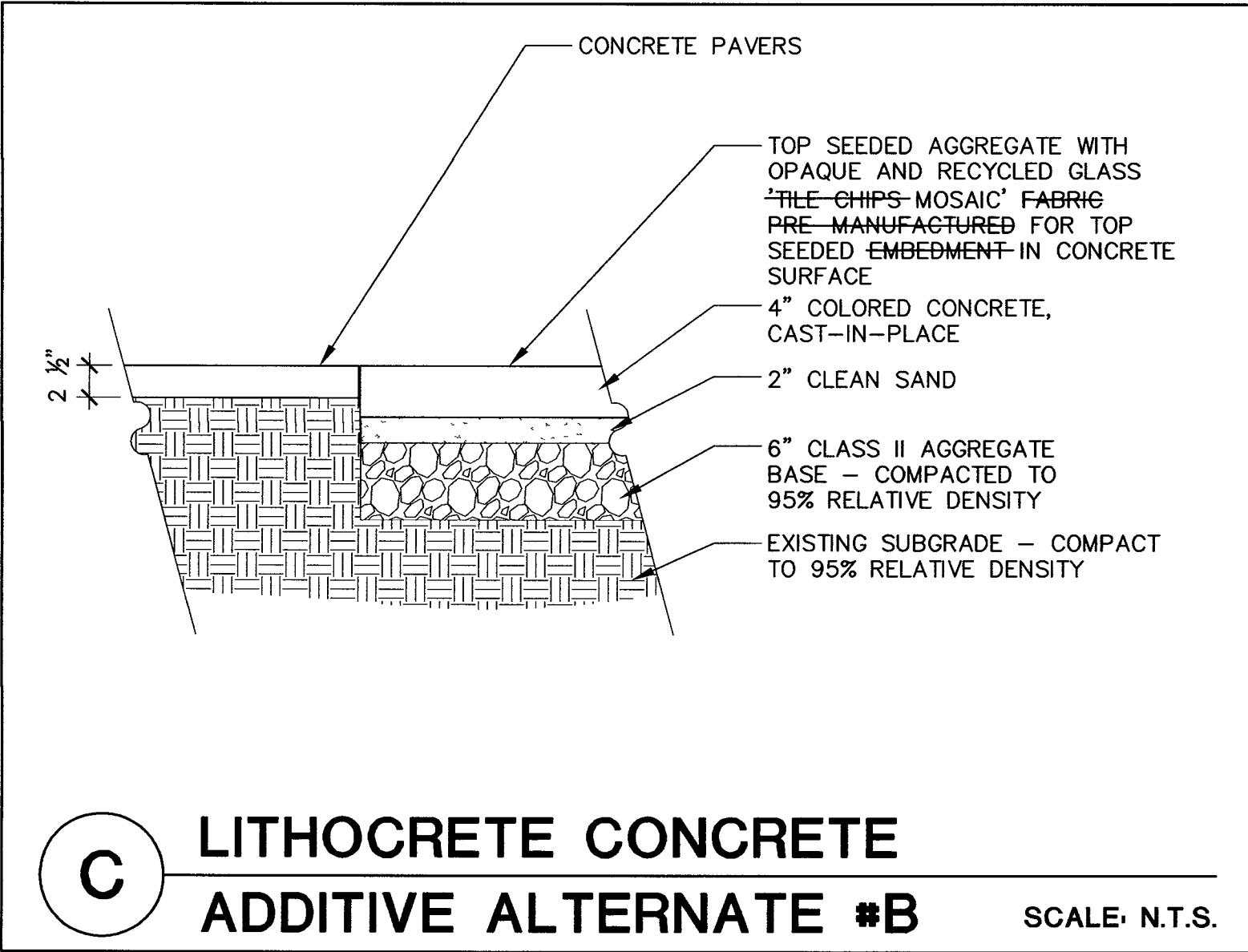
DESIGNED BY: *A Corsi*
PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP		8/30/12	

SECTION HEAD: 210-1737
CCS87 COORDINATE: 1850-6298
CCS88 COORDINATE: 36416- 8 -D

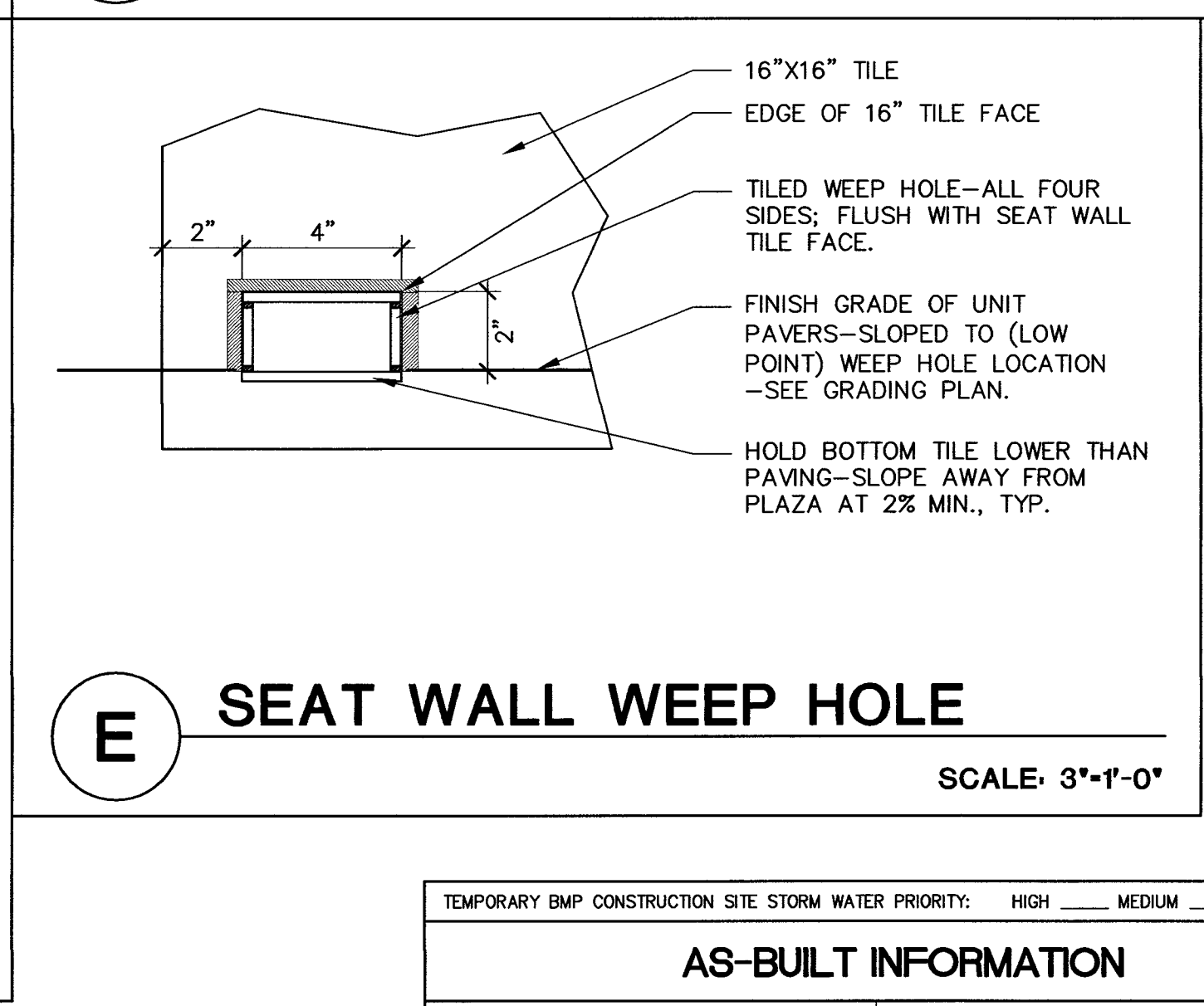
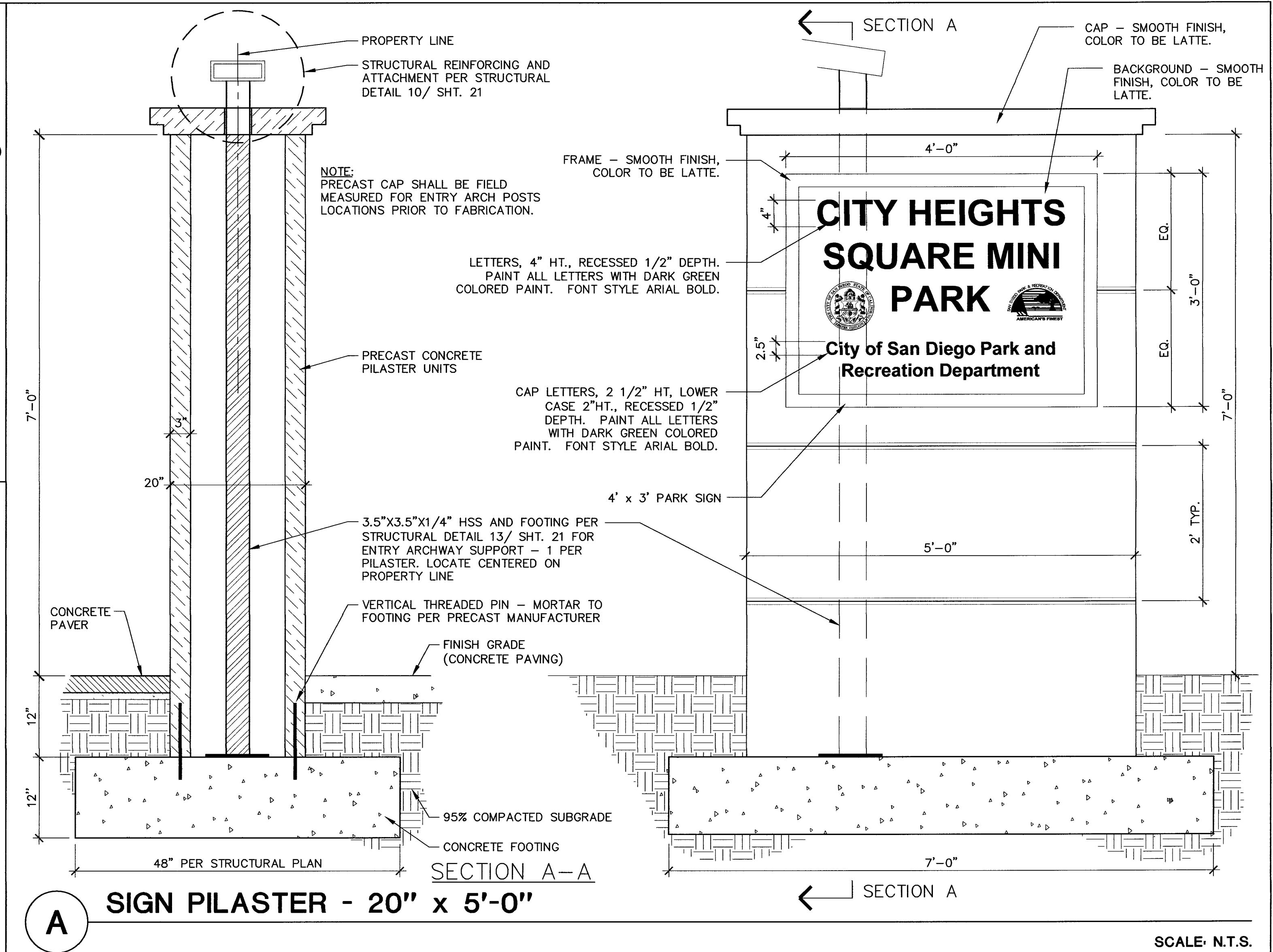
CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

CITY HEIGHTS SQUARE MINI PARK

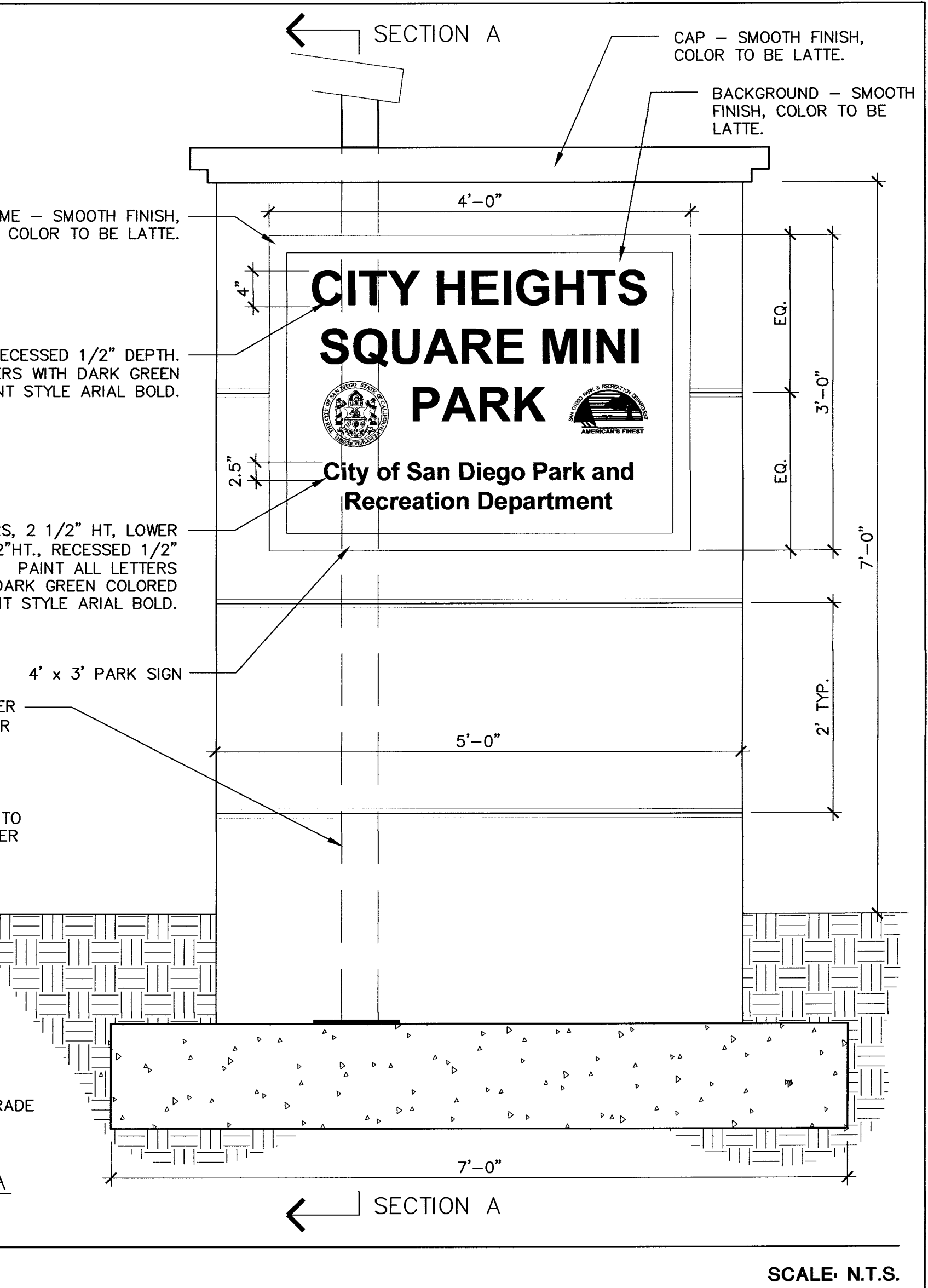


NOTES:

1. APPLY ANTI GRAFFITI COATING TO ALL EXPOSED SURFACES.
2. PROVIDE EXPANSION JOINTS AT EACH CHANGE IN DIRECTION (CORNERS).
3. EXPANSION JOINTS (VERTICAL) SHALL BE 1/4" MAX. WIDTH JOINT FILLER.
4. GROUT JOINTS SHALL BE 1/8" MAX. WIDTH AND SHALL BE DARK GRAY / BLACK FOR TILE; WHITE TO MATCH CAPS.



AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-



CD-3

CITY CONTRACT

PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK CONSTRUCTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 9 OF 21 SHEETS

APPROVED: *Sam M* 9/4/12
FOR CITY ENGINEER DATE

DESIGNED BY: *W. Corsi*
PROJECT MANAGER

DESCRIPTION BY APPROVED DATE FILMED
ORIGINAL ELP 8/30/12

SECTION HEAD
210-1737
CCS27 COORDINATE
1850-6298
CC883 COORDINATE

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

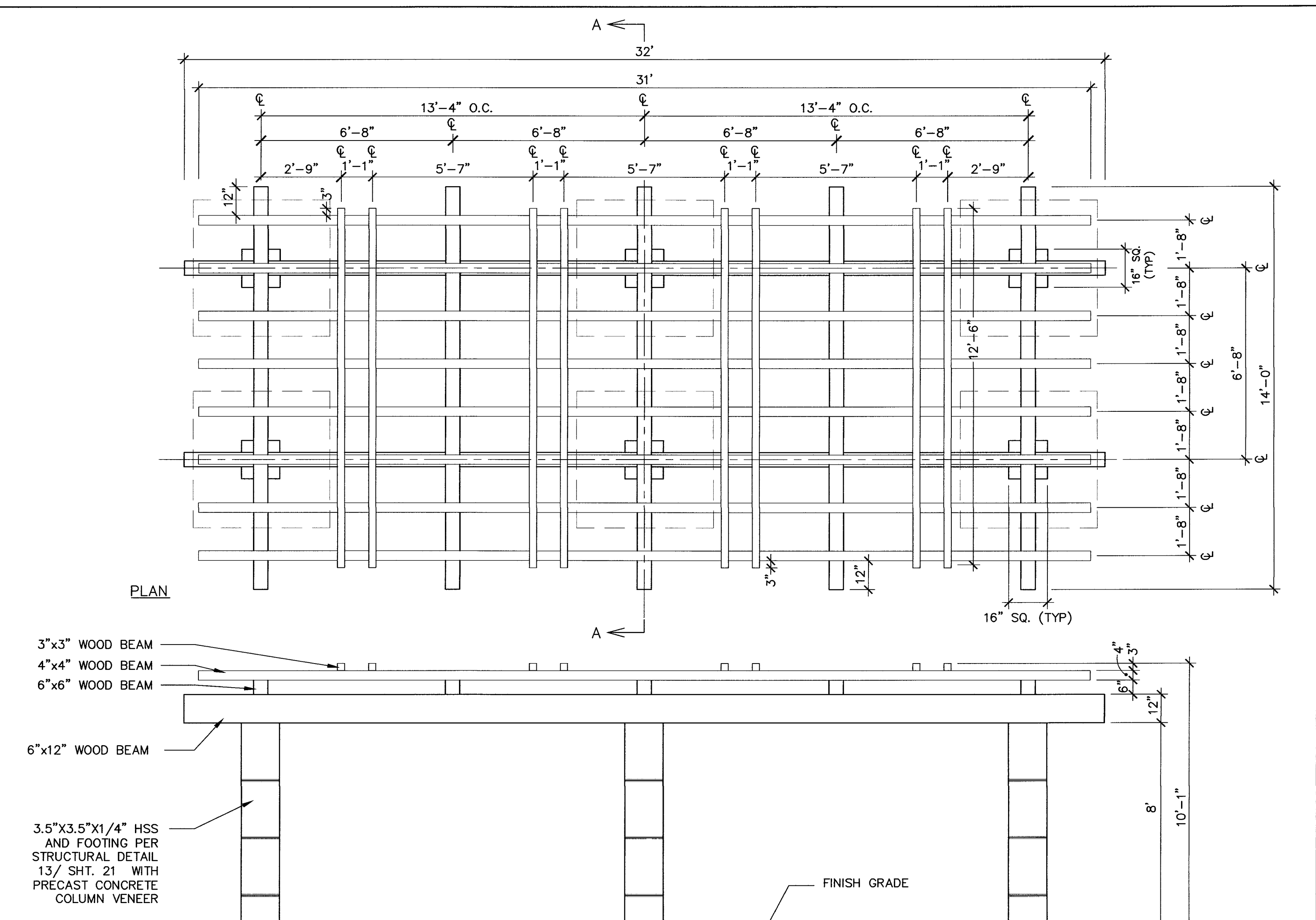
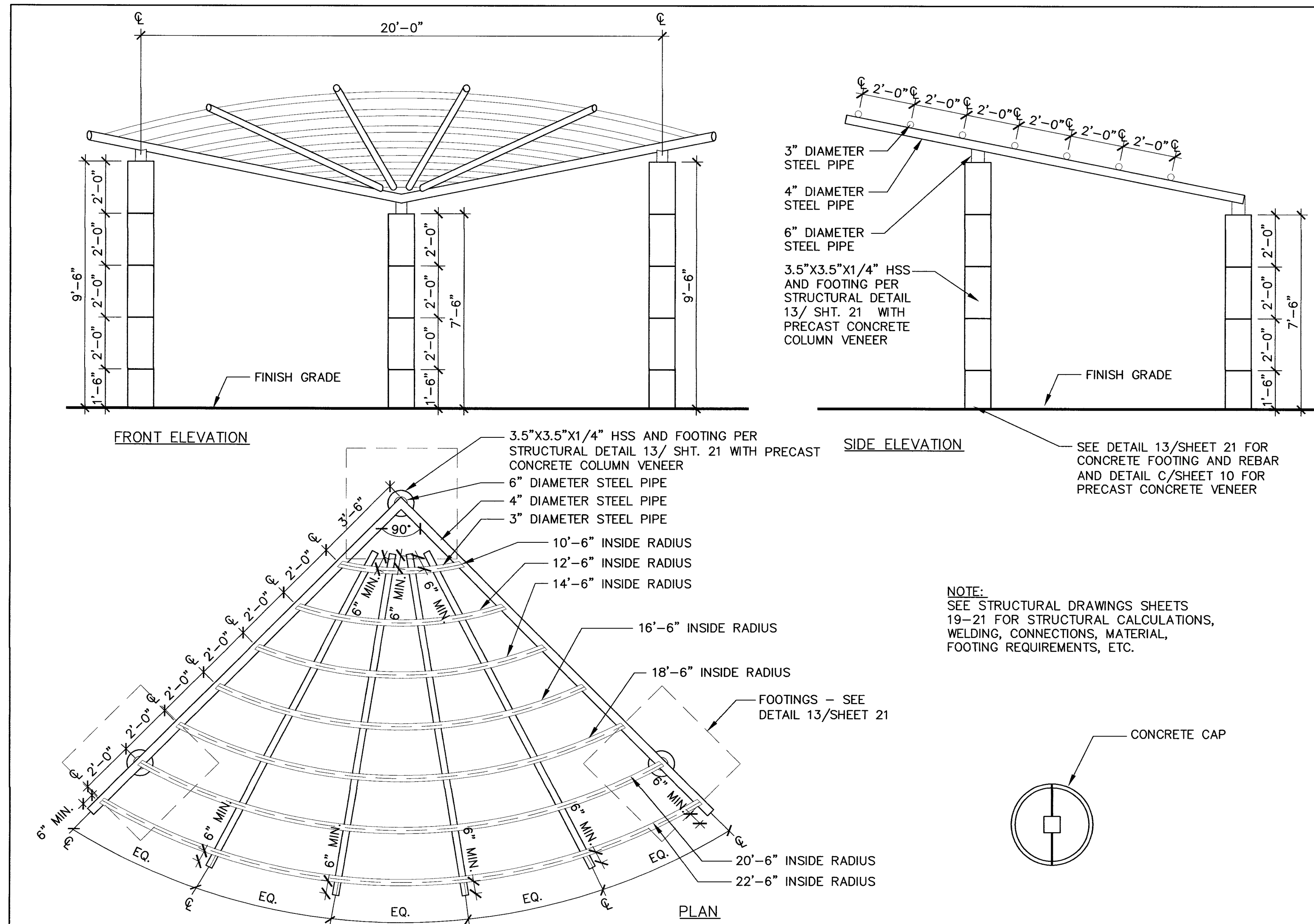
36416-9-D

Estrada Land Planning
Urban Design Landscape Architecture
Computer Imaging
888-258-0443
755 Broadway Circle Suite 300
San Diego, California 92101-9901
619-239-0273 Fax
ELP@estradaandplan.com

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____ SPEC. NO.: 5456

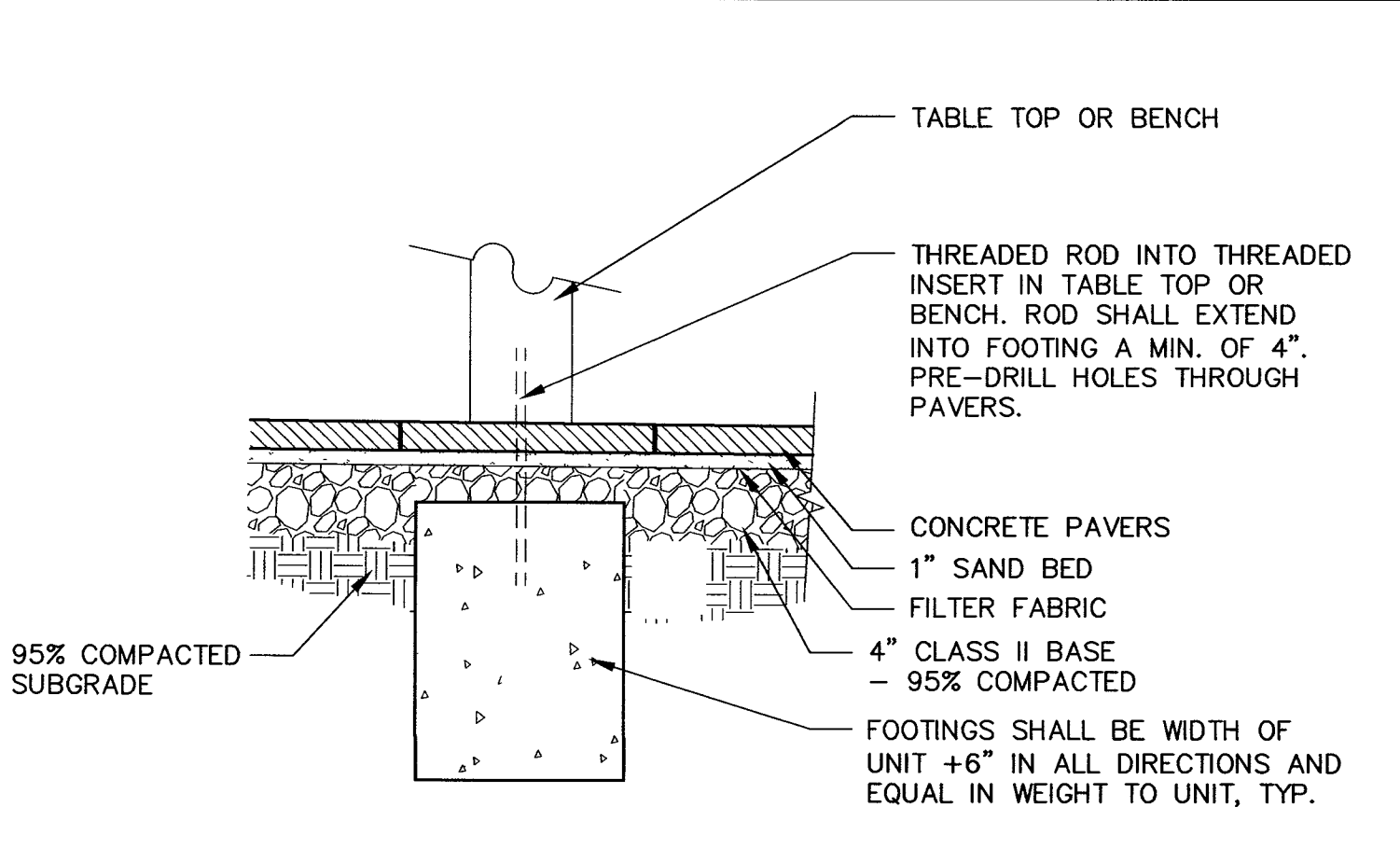
REGISTERED LANDSCAPE ARCHITECT
WIKI ESTRADA
No. 16805
Exp. 4/30/2014
San Diego, California
STATE OF CALIFORNIA

CITY HEIGHTS SQUARE MINI PARK

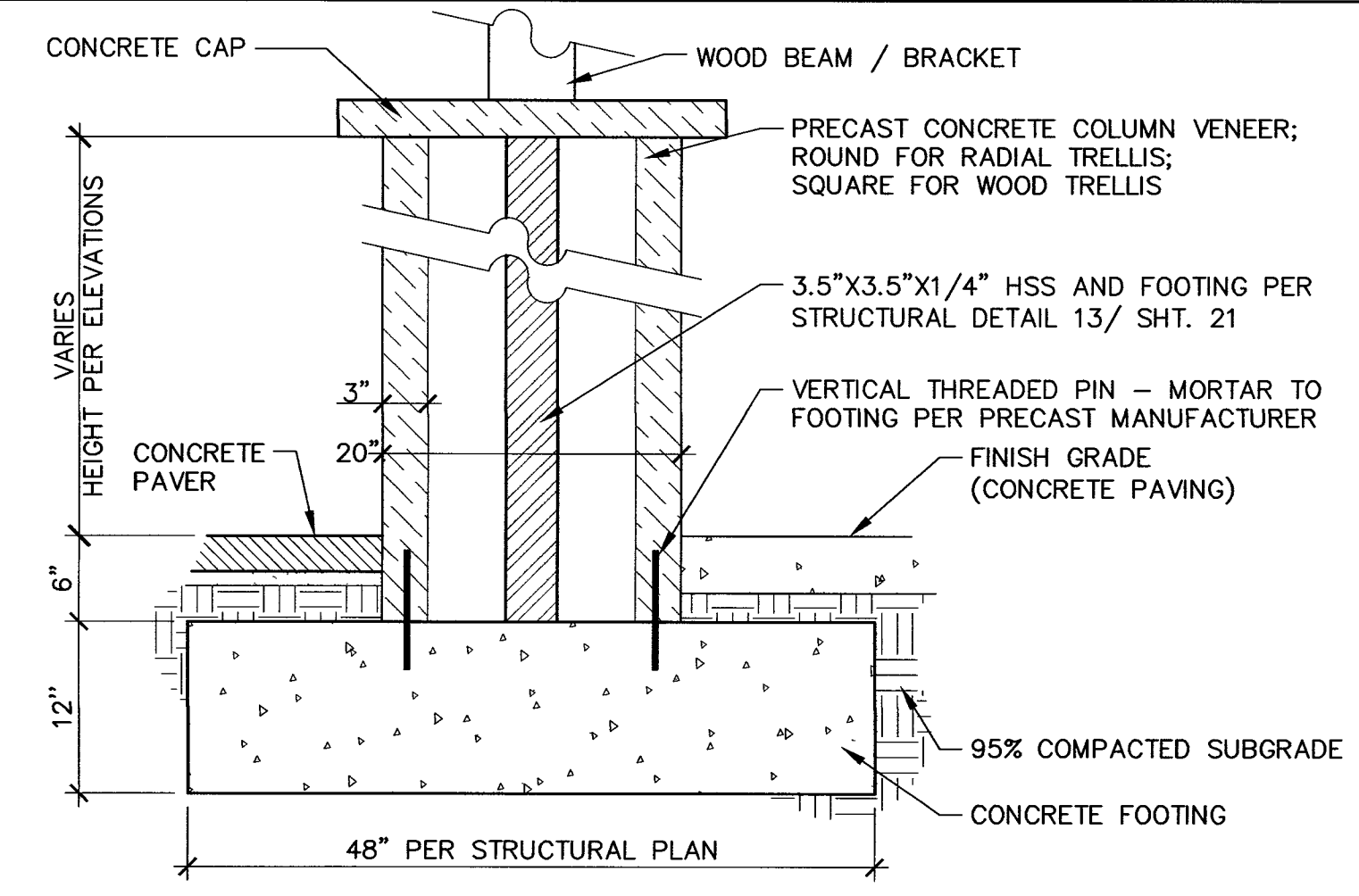


**B STEEL TRELLIS
ADDITIVE ALTERNATE #A**

SCALE: N.T.S.



**D TABLE ATTACHMENT TO
FOOTINGS BELOW PAVERS**



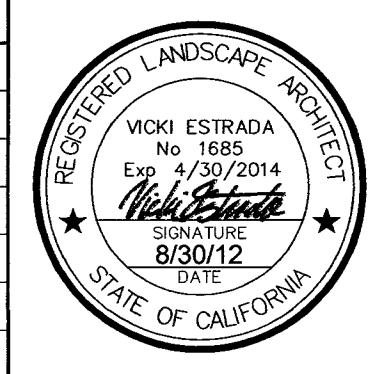
**C WOOD AND STEEL TRELLIS
COLUMNS VENEERS**

SCALE: N.T.S.

**A WOOD TRELLIS WITH PRECAST
CONCRETE COLUMNS**

SCALE: N.T.S.

AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-



CITY CONTRACT CD-4

**PLANS FOR THE CONSTRUCTION OF
CITY HEIGHTS SQUARE MINI PARK
CONSTRUCTION DETAILS**

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 10 OF 21 SHEETS

APPROVED BY: *Samuel M. Corsi* DATE: 9/4/12
FOR CITY ENGINEER

DESIGNED BY: *Samuel M. Corsi* DATE: 8/30/12
PROJECT MANAGER

SECTION HEAD: 210-1737
COORDINATOR: CC827
CONTACT: 1850-6298
COORDINATOR: CC883

CONTRACTOR: DATE STARTED: 36416-10-D
INSPECTOR: DATE COMPLETED:

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM LOW SPEC. NO.: 5456

CITY HEIGHTS SQUARE MINI PARK

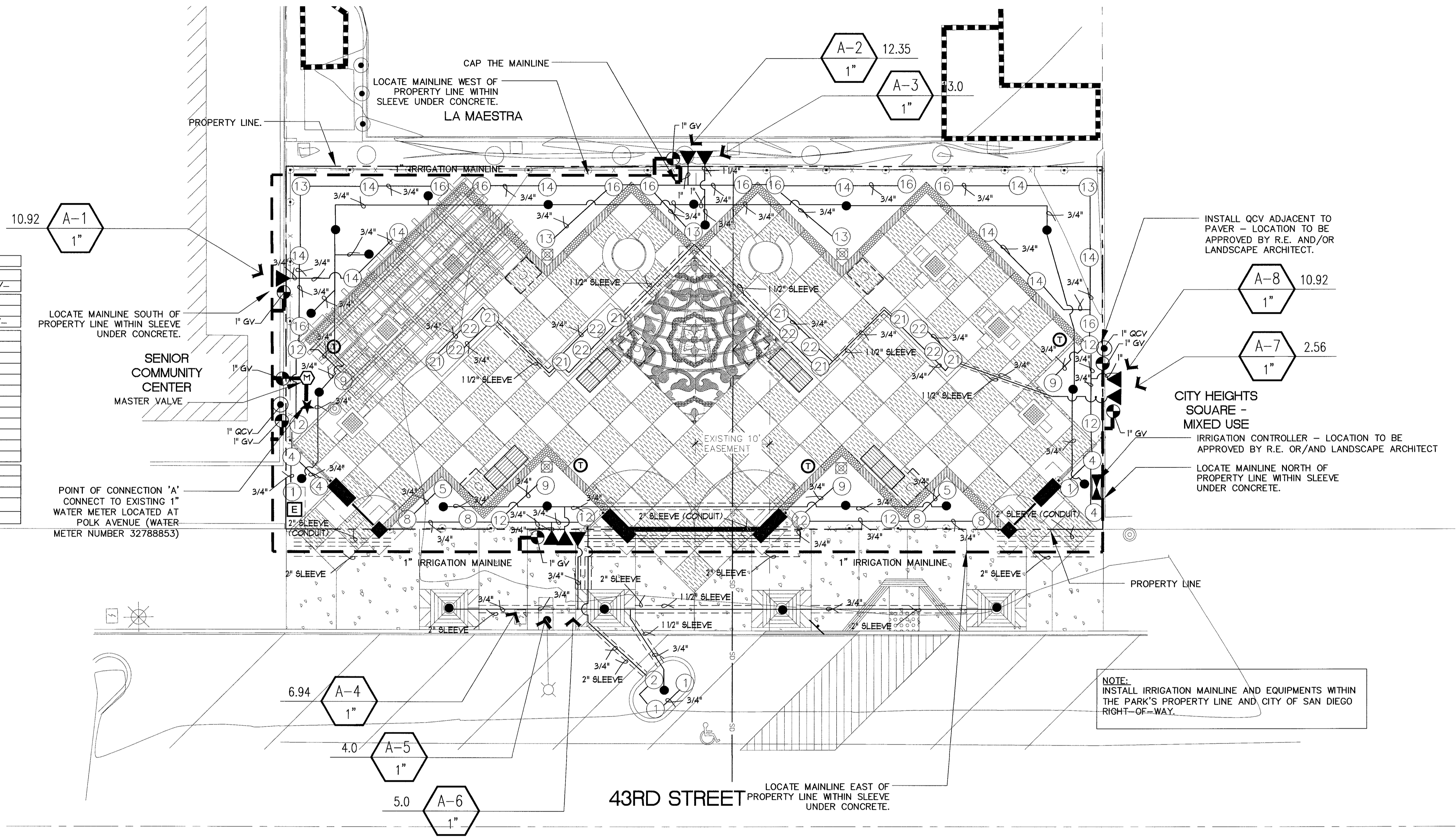
★ POINT OF CONNECTION "A"

P.O.C. DESIGNATION	"A" 1" IRRIGATION METER
ELEVATION	366'
STATIC PRESSURE	72 PSI +/- 10 PSI
WATER METER	EXISTING 1" W/ 1" SERVICE
BACKFLOW DEVICE	EXISTING 1" SIZE
PEAK FLOW	3.19 G.P.M.
PRESSURE REGULATOR	NONE
CONTROLLER TYPE	MC-8-PLUS-A
STATIONS AVAILABLE	12
STATIONS USED	8
WATER AGENCY	CITY OF SAN DIEGO
WATER UTILITIES DEPT.	619-553-4100

WATER PRESSURE CALCULATIONS FOR CONTROLLER 'A'

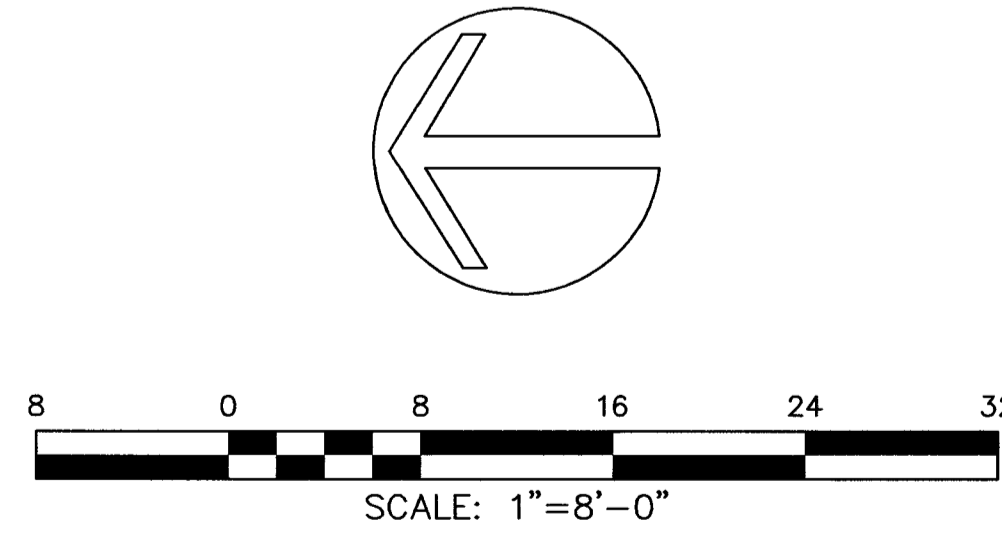
POC NUMBER	A	POC SIZE	1"
HIGHEST FLOW VALVE	A-3	STATIC PRESSURE (PSI)	72+/-
REMOTE CONTROL VALVE #	A-8	REMOTE CONTROL VALVE SIZE	1"
R.C.V. DEMAND (GPM)	3.19	TOTAL DEMAND (GPM)	3.19
R.C.V. ELEVATION CHANGE	366'	STATIC PRESSURE AT R.C.V.	72+/-

SIZE	DESCRIPTION	PSI LOSS
1"	SERVICE LINE	1 3.0 PSI
1"	WATER METER	2 8.0 PSI
1"	BACKFLOW PREVENTER (EXISTING)	3 11.0 PSI
1"	BALL VALVE	4 1.0 PSI
1"	MASTER CONTROL VALVE	5 2.0 PSI
1"	150 FEET OF MAINLINE: SCH 40	6 1.0 PSI
	N/A	7
1"	REMOTE CONTROL VALVE	8 2.0 PSI
VARIABLES	LATERAL LINE LOSS (50')	9 0.5 PSI
10%	FITTING LOSS	10 2.0 PSI
0 FEET +/-	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	11 0 PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #11)		12 30.5 PSI
PRESSURE REQUIRED AT HEAD		13 30.0 PSI
TOTAL PRESSURE REQUIRED (SUM OF #12 AND #13)		14 60.5 PSI
STATIC WATER PRESSURE (FROM ABOVE)		15 72+/- PSI
RESIDUAL PRESSURE (SUBTRACT # 14 FROM # 15)		16 11.5 PSI



- NOTES:
- CONTRACTOR IS RESPONSIBLE TO VERIFY AND LOCATE THE EXISTING WATER METER.
 - CONTRACTOR IS RESPONSIBLE TO OBTAIN NEW IRRIGATION WATER METER PERMITS AND FEES.

SEE SHEET 12 FOR IRRIGATION LEGEND AND NOTES.
SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____ SPEC. NO.: 5456

AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-



CITY CONTRACT I-1

PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK IRRIGATION PLAN

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 11 OF 21 SHEETS

APPROVED BY: *Sam M* 9/4/12
FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP		8/30/12	

DESIGNED BY: *A. CORSI*
PROJECT MANAGER

SECTION HEAD: 210-1737
CCS27 COORDINATE: 1850-6298
CC883 COORDINATE: 36416- 11-D

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

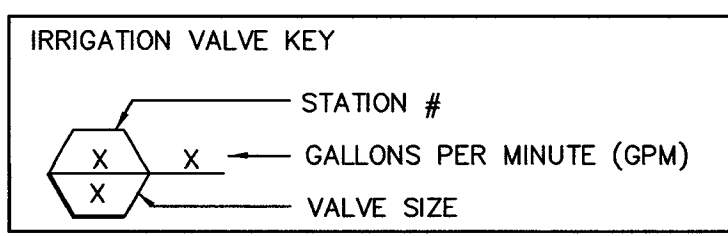
CITY HEIGHTS SQUARE MINI PARK

IRRIGATION LEGEND

SYMBOL	MFG.	IRRIGATION COMPONENT DESCRIPTION	MODEL/PART NO.	MAX. RAD.	PRECIP. RATE	PSI	GPM				DETAIL REF.
① ② ③ ④	RAINBIRD	12" HIGH POP-UP SPRINKLER - SHRUB	1812 SAM-PRS-5 Q/H/F/V	5'	--	30	.10	.20	.41	.20	SDRSD I-3
⑤ ⑥ ⑦ ⑧	RAINBIRD	12" HIGH POP-UP SPRINKLER - SHRUB	1812 SAM-PRS-8 Q/H/F/V	8'	--	30	.26	.52	1.05	.52	SDRSD I-3
⑨ ⑩ ⑪ ⑫	RAINBIRD	12" HIGH POP-UP SPRINKLER - SHRUB	1812 SAM-PRS-10 Q/H/F/V	10'	--	30	.39	.79	1.58	.79	SDRSD I-3
⑬ ⑭ ⑮ ⑯	RAINBIRD	12" HIGH POP-UP SPRINKLER - SHRUB	1812 SAM-PRS-12 Q/H/F/V	12'	--	30	.65	1.30	2.60	1.30	SDRSD I-3
⑰ ⑱ ⑲ ⑳	RAINBIRD	12" HIGH POP-UP SPRINKLER - SHRUB	1812 SAM-PRS-15 Q/H/F/V	15'	--	30	.92	1.85	3.70	1.85	SDRSD I-3
⑳	RAINBIRD	SQ NOZZLE INSTALLED 1800 SERIES BODY, 6" POP-UP.	XPCN - SQ QTR - QUARTER PATTERN		2.5' x 2.5'	1.90		30	0.12		SDRSD I-3
㉑	RAINBIRD	SQ NOZZLE INSTALLED 1800 SERIES BODY, 6" POP-UP.	XPCN - SQ HALF - HALF PATTERN		2.5' x 5'	1.57		30	0.20		SDRSD I-3
●	RAINBIRD	TREE BUBBLER (2 PER TREE)	1400 SERIES-1402		--	--		30	.50		E / SHEET 15

SYMBOL	IRRIGATION COMPONENT DESCRIPTION	MFG.	MODEL/PART NO.	REMARKS	DETAIL REF.
★	POINT OF CONNECTION	---	---	CONNECT TO EXISTING WATER METER (1") AND BACKFLOW PREVENTER (1"), VERIFY IN FIELD	--
M	EXISTING IRRIGATION METER W/ EXISTING SERVICE	---	1" SIZE	LOCATED AT POLK AVENUE. METER NUMBER 3278853.	--
☒	IRRIGATION CONTROLLER ASSEMBLY IN STAINLESS STEEL ENCLOSURE BY JOHN DEERE GREEN TECH DIVISION W/ 5 YEAR WARRANTY BY GREEN TECH AND RAIN SENSOR BELOW	IRRITROL STRONGBOX	CONTROLLER 'A': EAGLE PLUS SA1-RM2-16/CSTFS-150P/RSE/ EMP-18	INSTALL PER DETAIL AND MANUFACTURER'S INSTRUCTIONS. LOCATION TO BE APPROVED BY RESIDENT ENGINEER AND/OR LANDSCAPE ARCHITECT.	SDRSD I-17
⬠	RAIN SENSOR AUTOMATIC RAIN-SHUT OFF DEVICE	---	A PART OF CONTROLLER	RAIN SENSOR SHALL BE INSTALLED IN A STAINLESS STEEL, VANDAL RESISTANT ENCLOSURE ON TOP OF THE TRELIS. WIRES INSIDE CONDUIT AND RUN ALONG IN THE BACK OF COLUMN.	--
M	MASTER VALVE	SUPERIOR	MODEL 3300	1 1/2", NORMALLY OPEN	SDRSD SDI-10
⊙	QUICK COUPLING VALVE	RAINBIRD	44LRC 1" SIZE	ISOLATE FROM MAIN WITH 1" GLOBE VALVE. LOCATION TO BE APPROVED BY RESIDENT ENGINEER AND/OR LANDSCAPE ARCHITECT.	SDRSD I-5 SDRSD I-33
G.V.	GLOBE VALVE (MANUAL VALVE)	NIBCO	T-235-Y	1" SIZE FOR QUICK COUPLING VALVE. THE SAME SIZE AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.	SDRSD I-33 SDRSD I-13
▲	IRRIGATION REMOTE CONTROL VALVE (R.C.V.)	RAINBIRD	100 EFB-CP SERIES	1" ELECTRIC R. C. V. INSTALL IN VALVE BOX (FOR FLOWS BELOW 10 GPM, TURN CONTROL SYSTEM TWO FULL TURNS FROM FULLY-OPEN POSITION).	SDRSD SDI-14 SDRSD I-33
NO SYMBOL	ANTI-DRAIN / EXCESSIVE FLOW VALVE	VALCON	ADV-XS	INSTALL AT ALL SPRINKLER HEADS WHERE NEEDED. TO STOP ALL LOW HEAD DRAINAGE AND AS AN ANTI GEYSER DEVICE	SDRSD I-2, SDRSD I-3
---	MAIN LINE		1 1/2" AND SMALLER SCH. 40 PVC 2" AND LARGER CL.315 PVC	21" BELOW GRADE INSTALL THRUST BLOCKS AT TEES, ANGLES, ELLS	SDRSD. I-25 SDRSD WT-01 SDRSD W-100
---	IRRIGATION LATERAL LINE PIPE (NON-PRESSURE)		1 1/2" AND SMALLER SCH. 40 PVC 2" AND LARGER CL.315 PVC	15" BELOW GRADE 18" BELOW GRADE WHEREVER 12" POP-UPS ARE USED.	SDRSD I-25
---	IRRIGATION PIPE/CONTROL WIRE SLEEVE		1 1/2" AND SMALLER SCH. 40 PVC 2" AND LARGER CL.315 PVC	MIN. 2x DIAM. OF PIPE BEING SLEEVED. MIN. 2" FOR WIRE.	SDRSD I-1
PB	IRRIGATION ELECTRICAL PULL BOX	BROOKS #3-HL	CONCRETE PULL BOX	ALL SPLICES SHALL OCCUR IN PULL BOX OR CONTROL VALVE BOXES	SDRSD I-15
---	DIRECT BURIAL IRRIGATION ELECTRICAL CONTROL WIRE	---	---	CONTROL WIRES SHALL BE PARALLEL TO MAINLINE. CONTROL WIRE SHALL BE INSTALLED IN MIN. 2" DIA. SCH. 40 PVC SLEEVE UNDER PAVING.	SDRSD I-16

NOTES:
 CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ANTI-DRAIN VALVES, AS REQUIRED, TO PREVENT LOW HEAD DRAINAGE.
 CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL PCS SCREEN TO ALL SPRAY HEADS, TO PREVENT OVERSPRAY.
 S.D.R.S.D. = SAN DIEGO REGIONAL STANDARD DRAWINGS, LATEST EDITION.



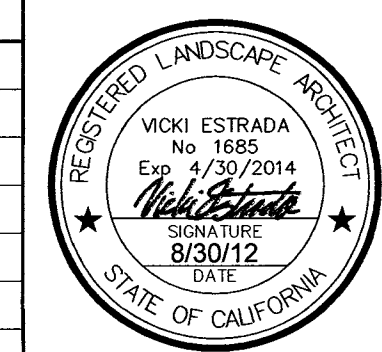
Estrada Land Planning
 Urban Design, Landscape Architecture, Computer Imaging
 818-238-0483
 755 Broadway Circle Suite 300
 San Diego, California 92101-1981
 619-238-0276 Fax
 ELP@EstradaLandPlan.com

CITY CONTRACT IL-1

PLANS FOR THE CONSTRUCTION OF
 CITY HEIGHTS SQUARE MINI PARK
 IRRIGATION LEGEND AND NOTES

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____ SPEC NO 5456

AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	---
PIPE SDR 35 (SEWER)	---
GATE VALVES	---
FIRE HYDRANTS	---
SEWER MANHOLES	---
REHABILITATE SEWER MANHOLES	---
REHABILITATE SEWER MAIN	---



CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 12 OF 21 SHEETS

APPROVED: *Sam M* 9/4/12
 FOR CITY ENGINEER DATE

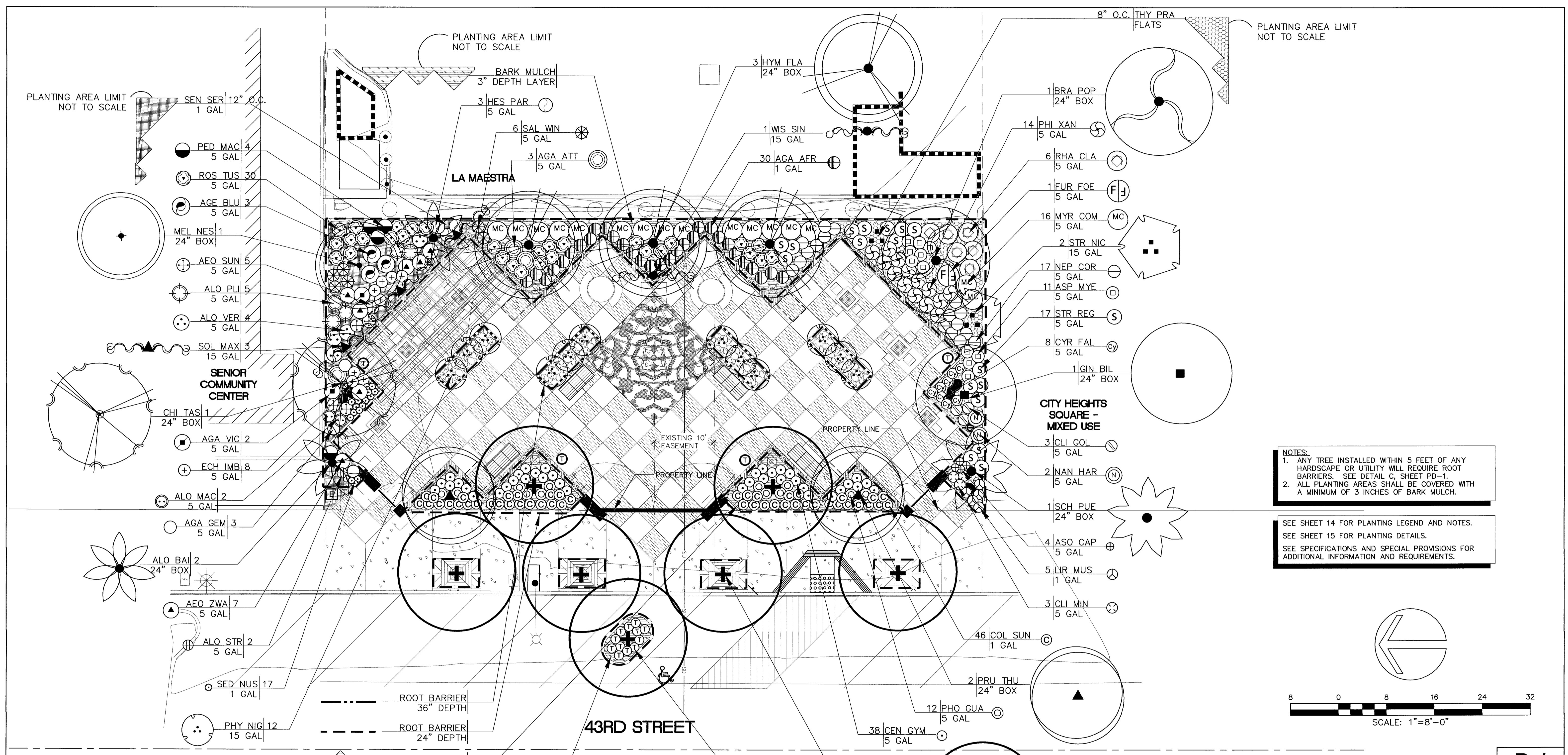
DESIGNED BY: *R A CORSI*
 PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP		8/30/12	

SECTION HEAD
 210-1737
 CCS27 COORDINATE
 1850-6298
 CCS88 COORDINATE
36416- 12 -D

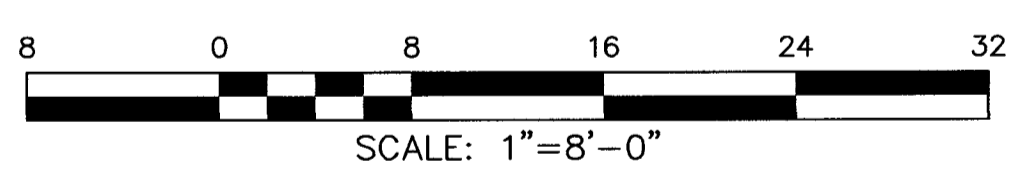
CONTRACTOR _____ DATE STARTED _____
 INSPECTOR _____ DATE COMPLETED _____

CITY HEIGHTS SQUARE MINI PARK



NOTES:
 1. ANY TREE INSTALLED WITHIN 5 FEET OF ANY HARDSCAPE OR UTILITY WILL REQUIRE ROOT BARRIERS. SEE DETAIL C, SHEET PD-1.
 2. ALL PLANTING AREAS SHALL BE COVERED WITH A MINIMUM OF 3 INCHES OF BARK MULCH.

SEE SHEET 14 FOR PLANTING LEGEND AND NOTES.
 SEE SHEET 15 FOR PLANTING DETAILS.
 SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



CITY CONTRACT P-1

PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 13 OF 21 SHEETS

APPROVED BY: *Sam M* FOR CITY ENGINEER DATE: 9/4/12

DESIGNED BY: *P K* FOR PROJECT MANAGER

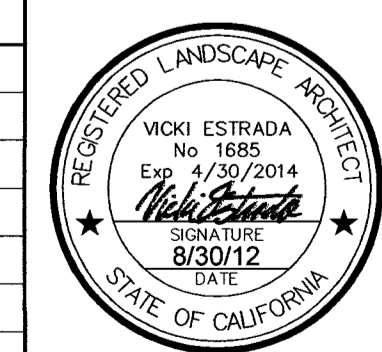
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP		8/30/12	

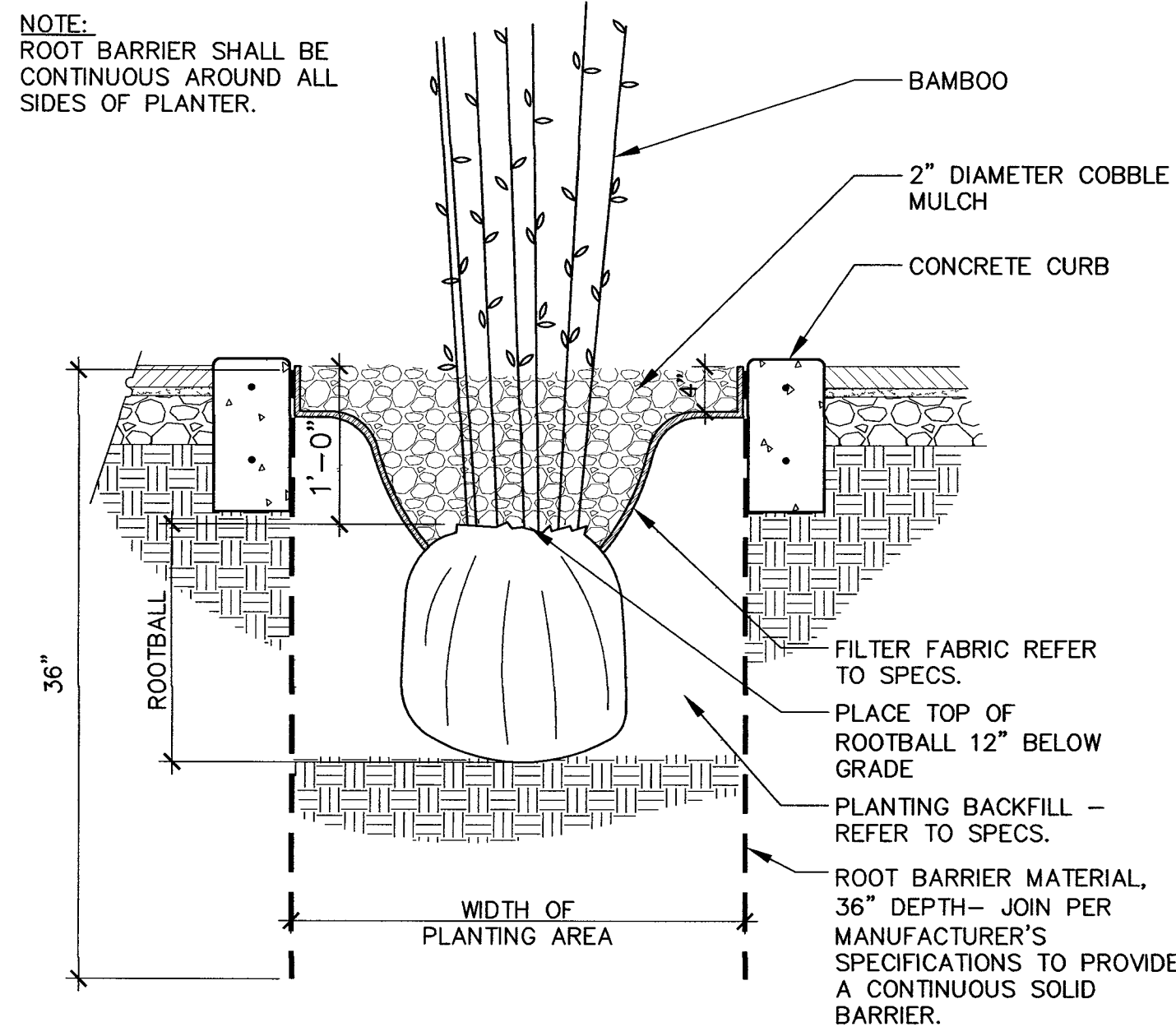
SECTION HEAD: 210-1737
 CCS27 COORDINATE: 1850-6298
 CCS83 COORDINATE: 36416-13-D

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____ SPEC NO.: 5456

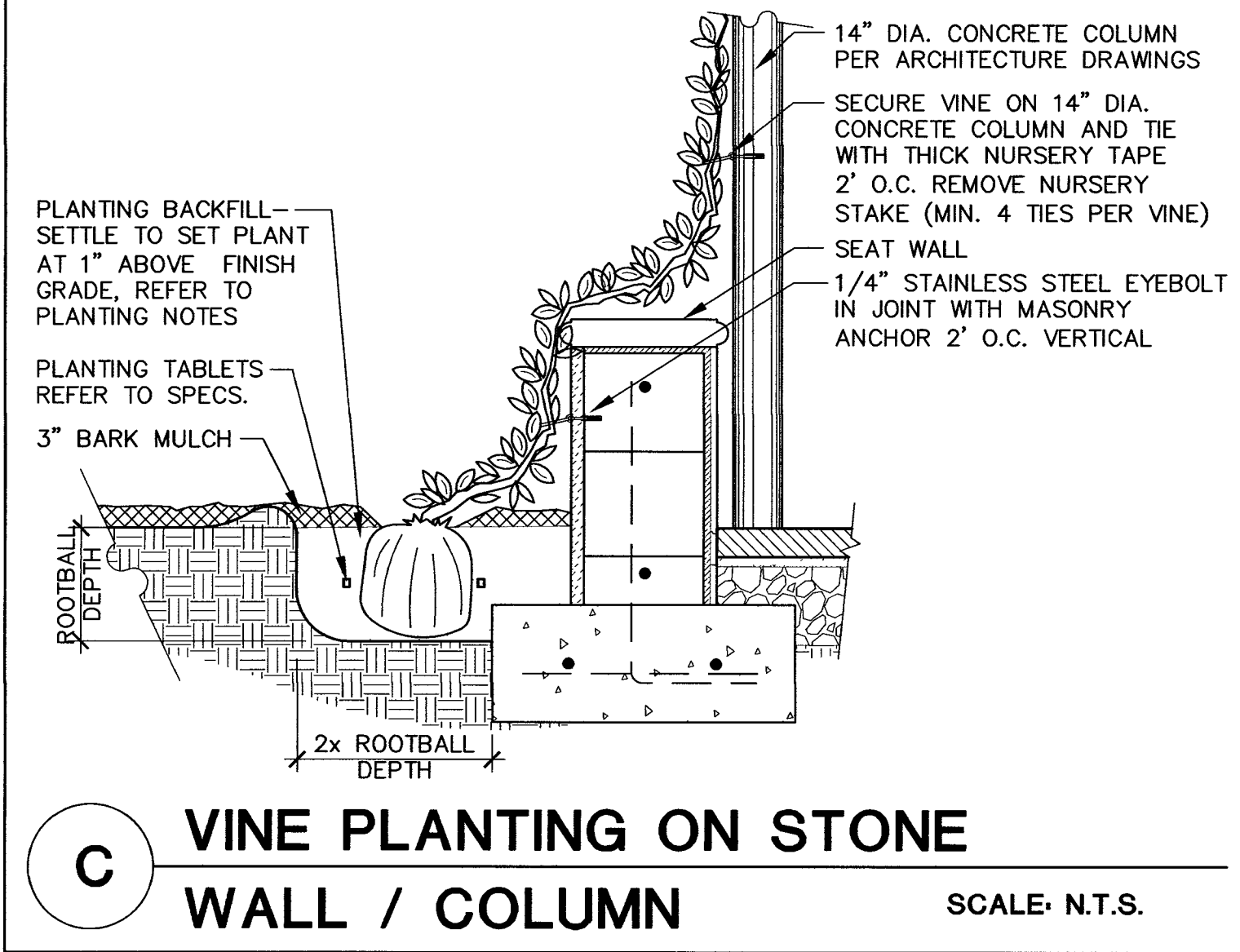
AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

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 755 Broadway Circle Suite 2000
 San Diego California 92101-9981
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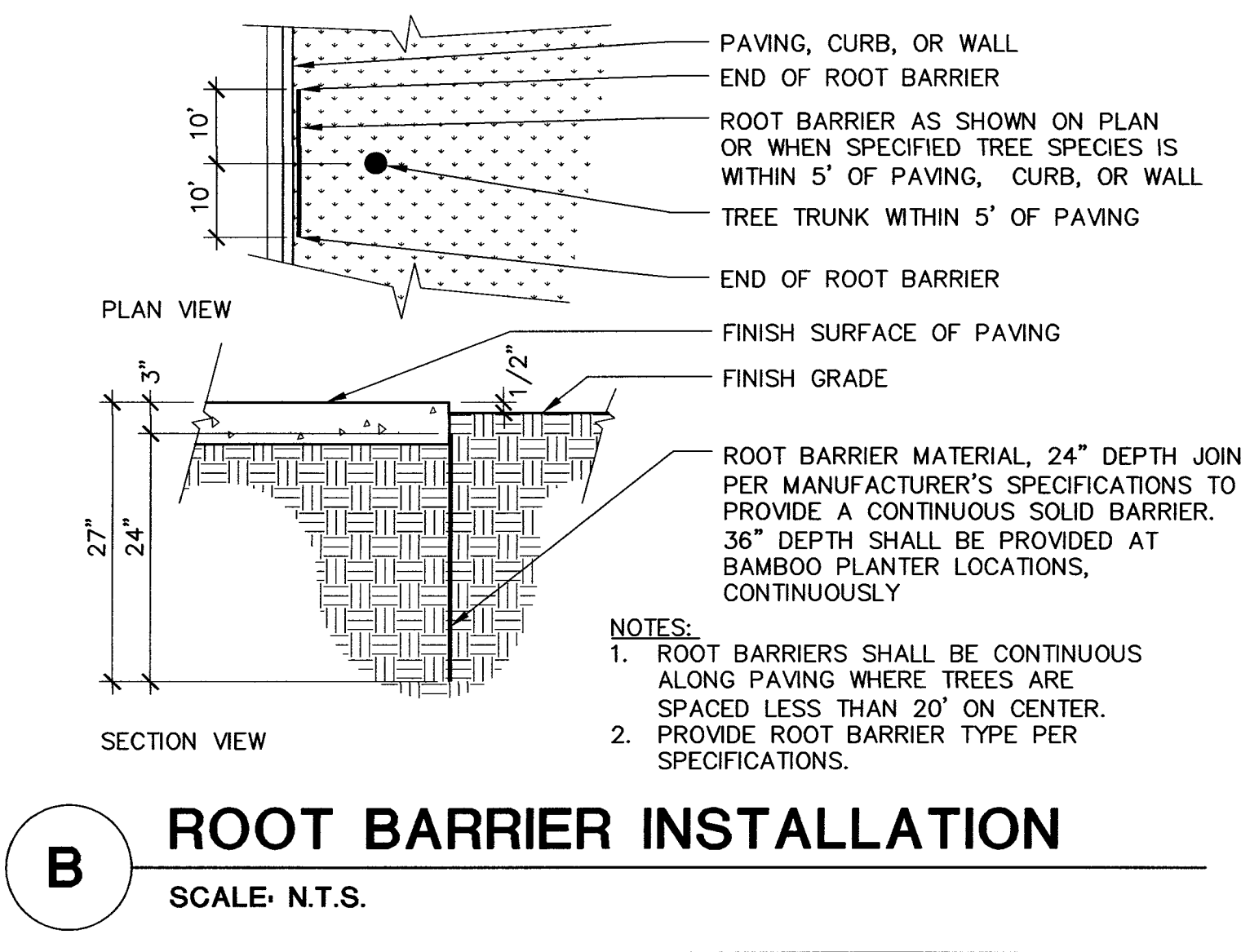




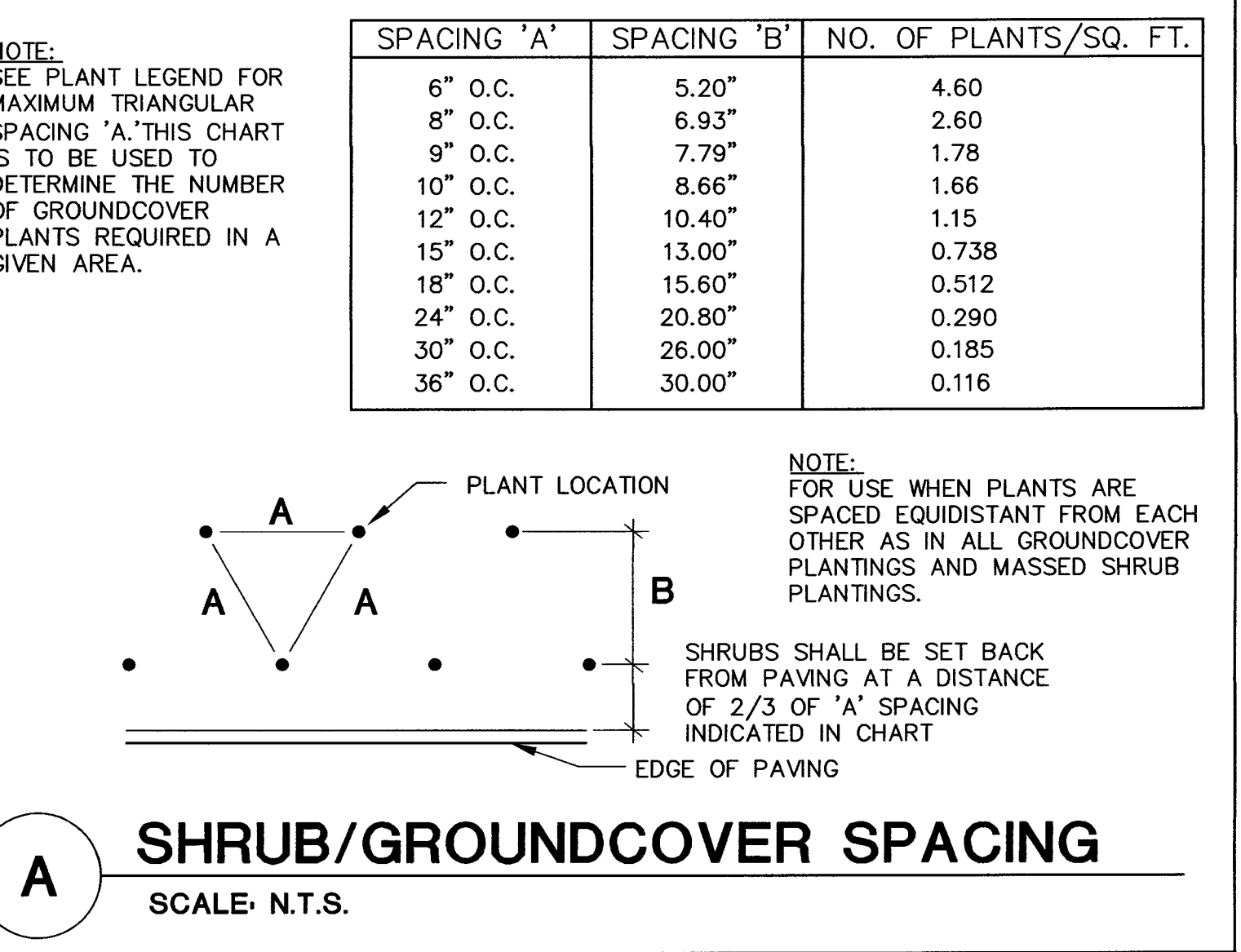
D BAMBOO PLANTING WITH ROOT BARRIER
SCALE: N.T.S.



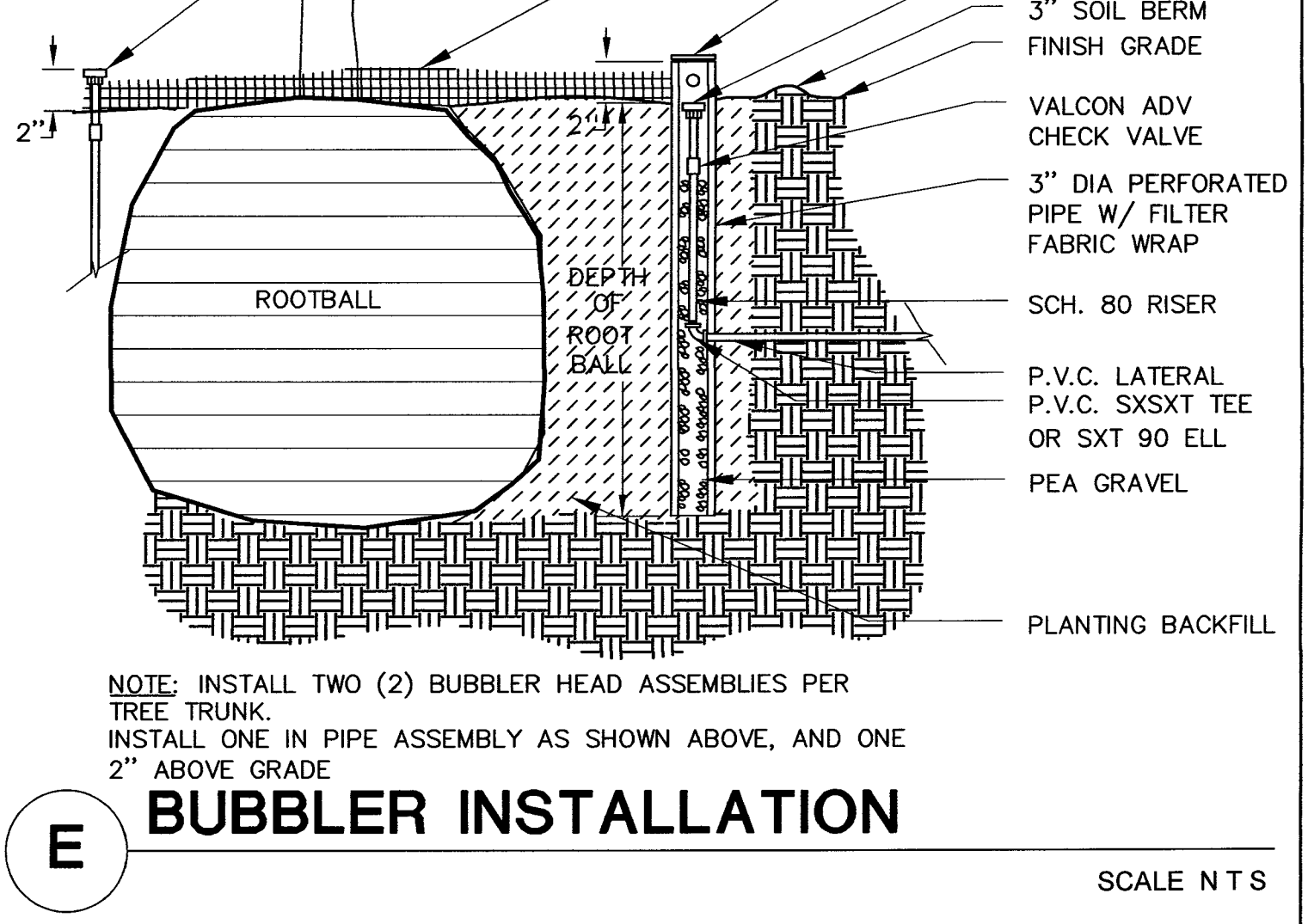
C VINE PLANTING ON STONE WALL / COLUMN
SCALE: N.T.S.



B ROOT BARRIER INSTALLATION
SCALE: N.T.S.



A SHRUB/GROUNDCOVER SPACING
SCALE: N.T.S.



E BUBBLER INSTALLATION
SCALE: N.T.S.



TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____		SPEC. NO. 5456
AS-BUILT INFORMATION		
MATERIALS	MANUFACTURER	
PIPE CL 235 (WATER)	-	
PIPE SDR 35 (SEWER)	-	
GATE VALVES	-	
FIRE HYDRANTS	-	
SEWER MANHOLES	-	
REHABILITATE SEWER MANHOLES	-	
REHABILITATE SEWER MAIN	-	

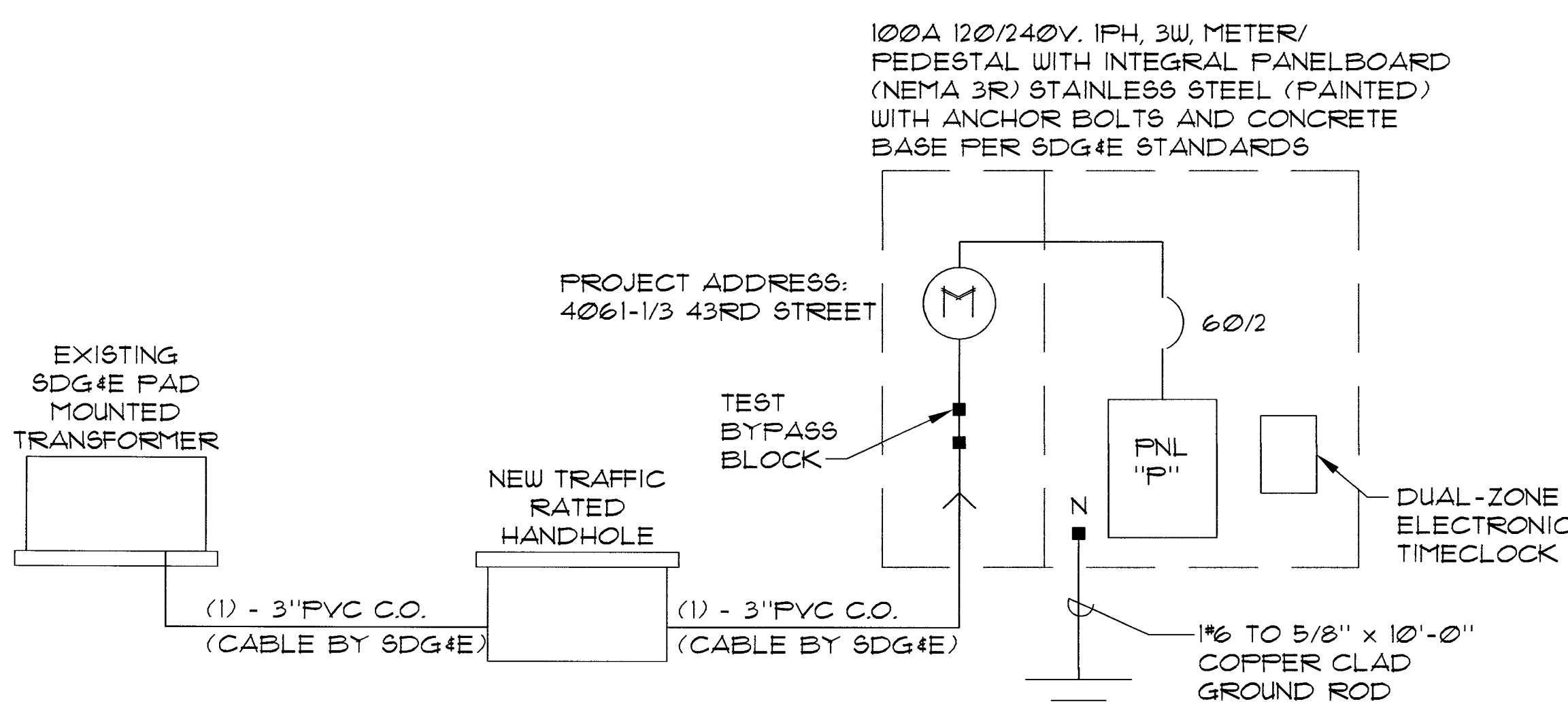


CITY CONTRACT		PD-1
PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK PLANTING DETAILS		
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 15 OF 21 SHEETS		WATER WBS: _____ SEWER WBS: S-01070
APPROVED FOR CITY ENGINEER: <i>Samuel M</i>	DATE: 9/4/12	SUBMITTED BY: <i>Pat</i> CORSI PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: ELP	APPROVED DATE: 8/30/12
SECTION HEAD: 210-1737		CCS27 COORDINATE: 1850-6298
CONTRACTOR: _____ DATE STARTED: _____		CCS88 COORDINATE: 36416-15-D
INSPECTOR: _____ DATE COMPLETED: _____		

CITY HEIGHTS SQUARE MINI PARK

PANEL: "P"			
VOLTS: 120/240V		LOCATION: METER PEDESTAL	
PHASE: 1		FEEDER: SEE I-LINE	
WIRE: 3		MAINS: MLO	
A.I.C.: 42K		BUSSING: 100AMP	
		FEED: BOTTOM	
		MOUNTING: METER PEDESTAL	
LOCATION	WATTAGE	WATTAGE	LOCATION
LIGHT POLES	A B	A B	SPACE
LIGHT POLES	146 146	20 3 4	
IRRIG. CONT.	500	20 3 5 6	
TIMECLOCK	100	20 1 1 1 1 1 1	
SPARE		20 10 8 8	
		20 11 12	
		20 13 14	
		20 15 16	
		20 17 18	
		20 19 20	
		20 21 22	
		20 23 24	
		20 25 26	
		20 27 28	
		20 29 30	
		20 31 32	
		20 33 34	
		20 35 36	
		20 37 38	
		20 39 40	
		20 41 42	
SUBTOTALS = 646 246			
TOTALS/PHASE = 646 246			
TOTAL LOAD = 892 WATTS AT 120/240V = 3.7 AMPS			
HIGH PHASE = 646 WATTS AT 120V = 5.4 AMPS			

PANEL MODIFICATIONS:
GROUND BUS NAMEPLATES
* - CONTROLLED BY ZONE 1 OF 2-POLE TIMECLOCK
** - CONTROLLED BY ZONE 2 OF 2-POLE TIMECLOCK
SUD - PROVIDE CIRCUIT BREAKER SUITABLE FOR SWITCHING.

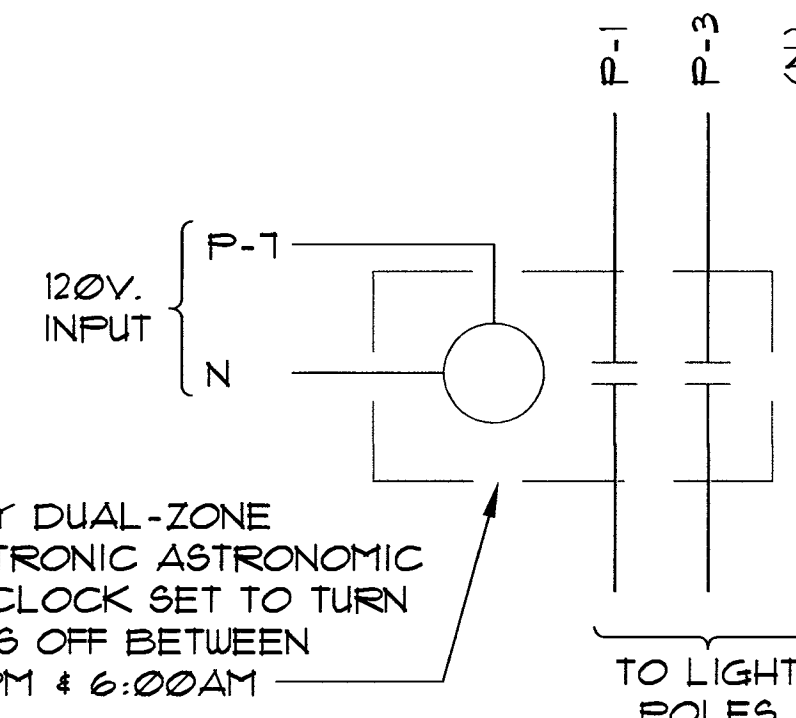


SINGLE LINE DIAGRAM

NO SCALE

GENERAL NOTES:

- ALL WORK SHALL BE IN COMPLIANCE WITH GREEN & WHITE BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND RELATED PUC AND CITY OF SAN DIEGO STANDARD DRAWINGS.
- CONTACT MARK-OUT SERVICE TO DETERMINE ALL EXISTING UNDERGROUND UTILITIES.
- COORDINATE ALL UNDERGROUND CONDUIT INSTALLED WITH PROPOSED NEW TREE LOCATIONS.
- CONTRACTOR SHALL PROVIDE DIMENSIONED AS-BUILT LOCATIONS OF ALL UNDERGROUND CONDUITS.
- CONTRACTOR SHALL CREATE TRAFFIC PLAN.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL PRIMARY UTILITIES WITH SDG&E.



LIGHTING CONTROL DIAGRAM

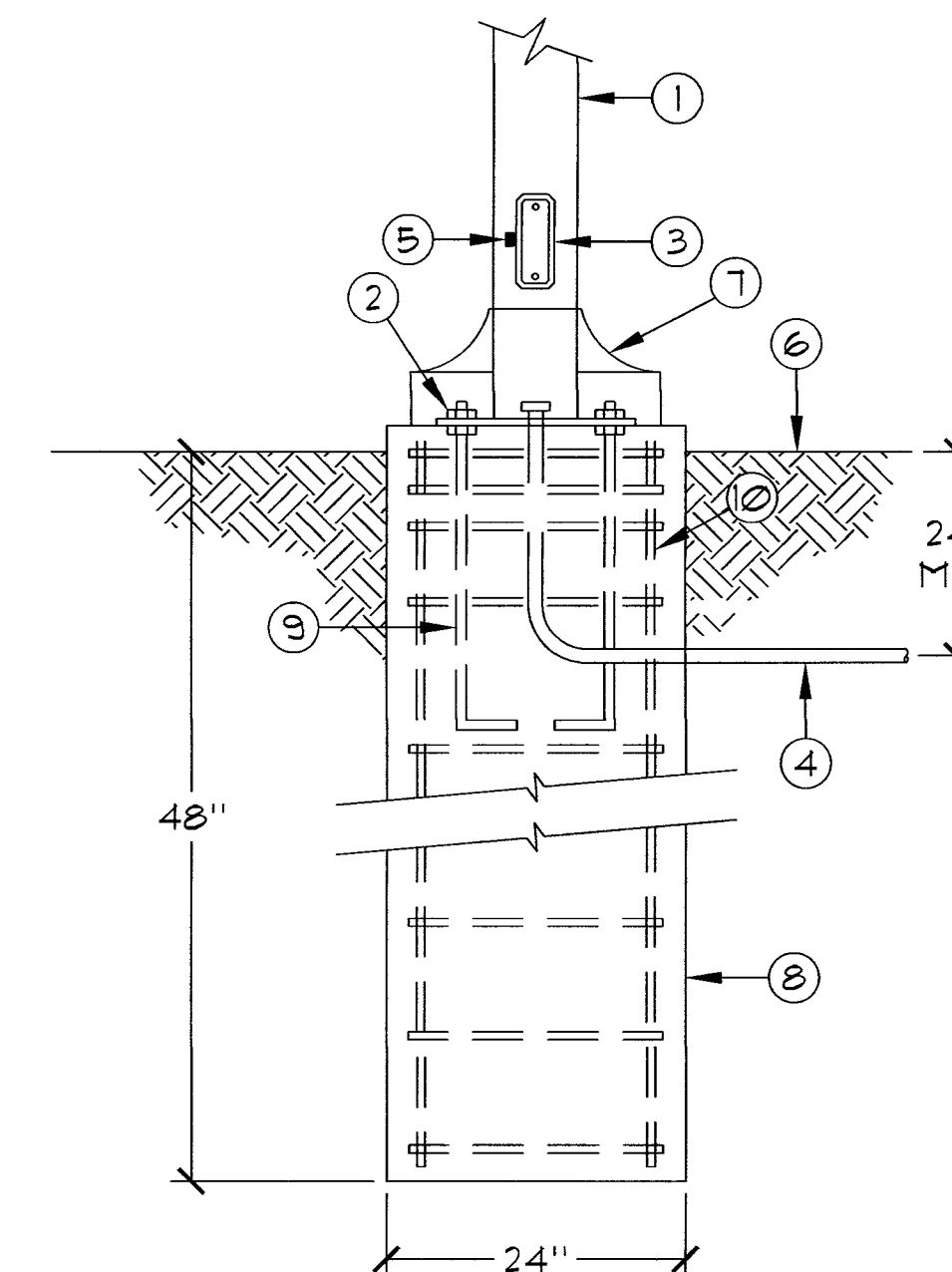
NO SCALE

LIGHT FIXTURE SCHEDULE								
FIXTURE TYPE	SYMBOL	MANUFACTURER	CATALOG NO	WATTS	VOLTS	MOUNTING	LAMP TYPE	REMARKS
A	☒	ARCHITECTURAL AREA LIGHTING	FRMD-T3-60LED-BW-MTB-SLA1-FR4-4R14	73	120	14 FOOT POLE TOP PENDANT	60 LED'S (INCLUDED)	DECORATIVE PENDANT POLE MOUNTED LED FIXTURE ON CURVED ARM WITH ACRYLIC GLOBE & FULL CUT-OFF OPTICS.

NOTES: ① PROVIDE FUSING IN BASE OF EACH POLE.

ABBREVIATIONS

ABBREVIATION	DEFINITION
EX	EXISTING TO REMAIN
GFI	GROUND FAULT INTERRUPTER
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF



LIGHTING POLE BASE DETAIL

NO SCALE

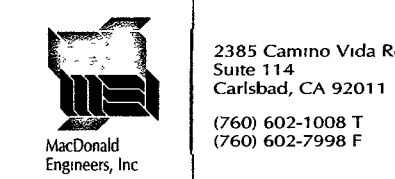
- ROUND 4" STEEL POLE.
- PLATE STEEL POLE BUTT BASE MOUNTING PLATE AND ANCHOR BOLTS.
- ACCESS HOLE WITH COVER AND STAINLESS STEEL TAMPER FASTENERS.
- STUB BRANCH CIRCUIT AND/OR CONTROL CONDUITS UP INTO POLE WIRING CAVITY.
- GROUND LUG
- TOP OF FINISHED GRADE/ CONCRETE WALK.
- BOLT COVER GROUTED IN PLACE.
- ROUND CONCRETE FOOTING 2500PSI MIN.
- ANCHOR BOLTS SUPPLIED WITH POLE.
- 3/8" TIES WITHIN TOP 5 INCHES OF FOUNDATION. #3 TIES AT 12" O.C. BELOW. #4 VERTICAL AT FOUR CORNERS.

CITY CONTRACT

E-1

PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK ELECTRICAL SCHEDULES AND DETAILS

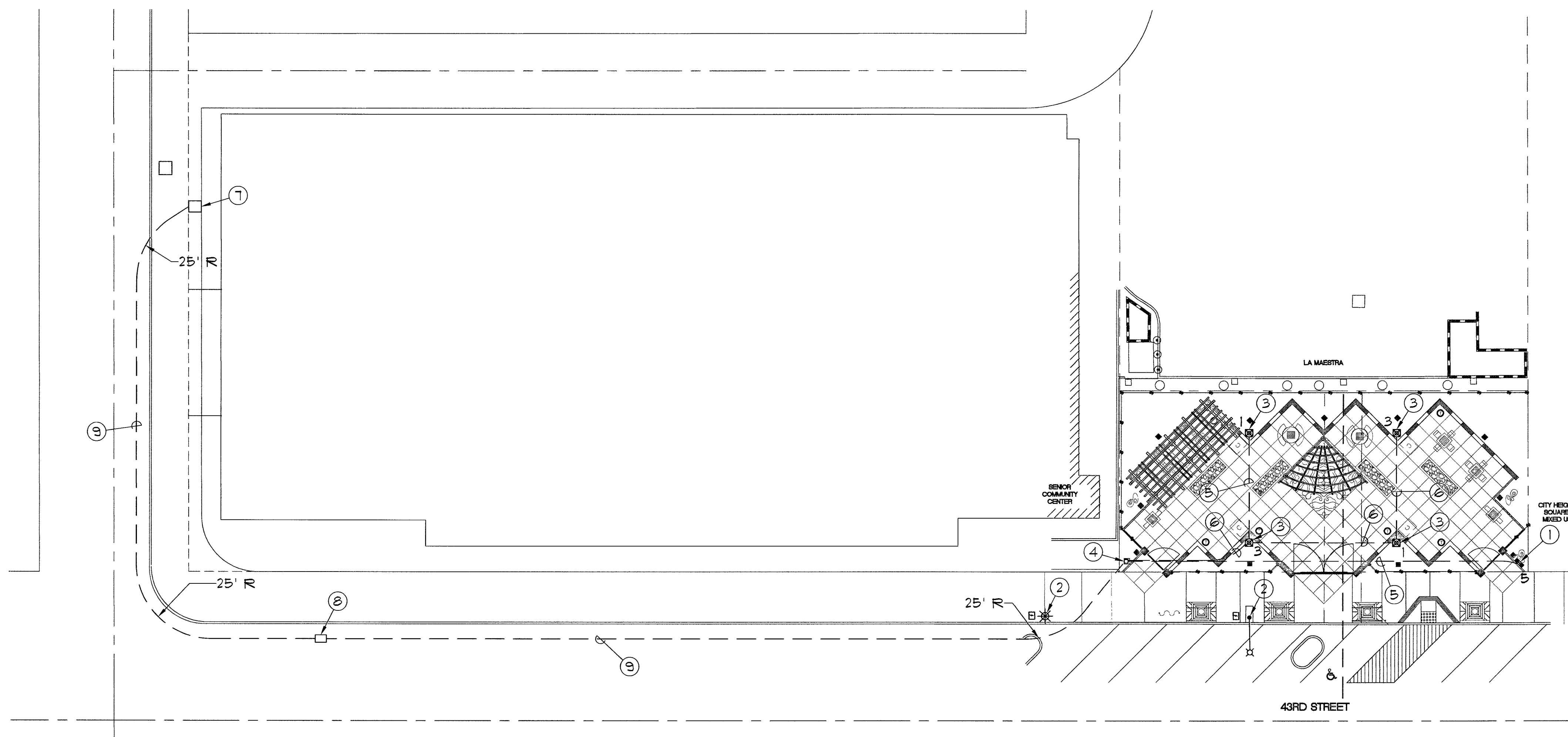
AS-BUILT INFORMATION		TEMPERARY BMP CONSTRUCTION SITE STORM WATER PRIORITY		HIGH _____ MEDIUM _____ LOW _____	SPEC NO 5456
MATERIALS	MANUFACTURER				
PIPE CL 235 (WATER)	-				
PIPE SDR 35 (SEWER)	-				
GATE VALVES	-				
FIRE HYDRANTS	-				
SEWER MANHOLES	-				
REHABILITATE SEWER MANHOLES	-				
REHABILITATE SEWER MAIN	-				



CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 16 OF 21 SHEETS					WBS S-01070
APPROVED FOR CITY ENGINEER: <i>Sam H.</i>		DATE: 9/4/12		PROJECT ENGINEER: A. CORSI	210-1737
DESCRIPTION	BY	APPROVED	DATE	FILMED	CC827 COORDINATE
ORIGINAL	ELP		8/30/12		1850-6298
					CC883 COORDINATE
CONTRACTOR	DATE STARTED	INSPECTOR			36416-16-D
		DATE COMPLETED			

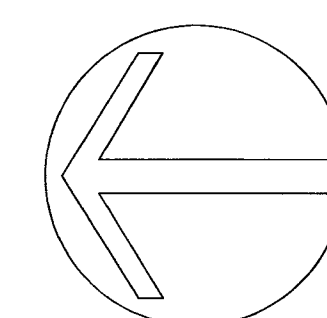
KEY NOTES:

- ① NEW IRRIGATION CONTROLLER.
- ② EXISTING LIGHT POLE.
- ③ NEW TYPE "A" LIGHT POLE. REFER TO BASE DETAIL ON SHEET E-1.
- ④ NEW METER PEDESTAL MOUNTED ON CONCRETE BASE PER SDG&E REQUIREMENTS.
- ⑤ NEW 3/4" C.-2#12, 1#12 GND.
- ⑥ NEW 3/4" C.-3#12, 1#12 GND.
- ⑦ EXISTING SDG&E TRANSFORMER (ELECTRICAL POINT OF CONNECTION), COORDINATE CONNECTION WITH SDG&E.
- ⑧ NEW TRAFFIC RATED 24"X36" HANDHOLE PER SDG&E 3313 STANDARD.
- ⑨ NEW 3" DB C.O. PER SDG&E STANDARDS. SAWCUT, TRENCH, EXCAVATE TO ACCOMMODATE CONDUIT INSTALLATION, BACKFILL, COMPACT, & REPAIR ASPHALT CONCRETE STREET SURFACE TO MATCH EXISTING. REPAIR CONCRETE SIDEWALKS TO MATCH EXISTING SURFACE.



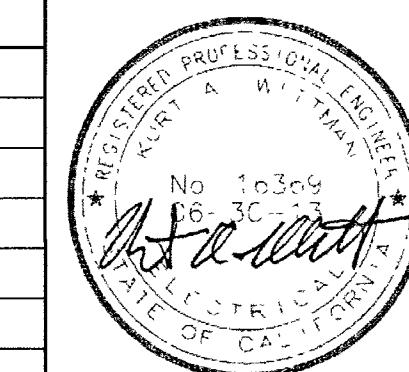
ELECTRICAL SITE PLAN

SCALE: 1" = 20'



SCALE 1" = 20'

2385 Camino Vida Roble
Suite 114
Carlsbad, CA 92011
(760) 602-1008 T
(760) 602-7998 F
McDonald
Engineers, Inc.
Civil/Electrical License



CITY CONTRACT

E-2

**PLANS FOR THE CONSTRUCTION OF
CITY HEIGHTS SQUARE MINI PARK
ELECTRICAL SITE PLAN**

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 17 OF 21 SHEETS

APPROVED: *Sam M. A. Corsi* 2/4/12
FOR CITY ENGINEER DATE PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP		8/30/12	

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WBS _____
WBS S-01070

PROJECT ENGINEER
210-1737
CS27 COORDINATE
1850-6298
CS83 COORDINATE

36416-17-D

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY HIGH _____ MEDIUM _____ LOW _____ SPEC NO 5456

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

CERTIFICATE OF COMPLIANCE (Part 1 of 4) OLTG-1C
Project Name: City Heights Square Mini Park
Date: 5/18/2011
Project Address: 4061-1/3 43rd Street San Diego, CA 92105
Total Illuminated Area: 3,716
GENERAL INFORMATION
Phase of Construction: [X] New Construction [] Addition [] Alteration
Documentation Author's Declaration Statement
I certify that this Certificate of Compliance documentation is accurate and complete.
Name: Troy A. Stepp
Company: MacDonald Engineers Inc.
Address: 2385 Camino Vida Roble, Ste 114
City/State/Zip: Carlsbad, California 92011
Phone: 760-602-1008
Principal Lighting Designer's Declaration Statement
I am eligible under Division 3 of the California Business and Professional Code to accept responsibility for the lighting design.
This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
Name: Kurt Wilman
Company: MacDonald Engineers, Inc.
Address: 2385 Camino Vida Roble, Suite 114
City/State/Zip: Carlsbad, CA 92011
Principal Lighting Designer's Declaration
I certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area in accordance with Section 147 of the Standards.
Outdoor Lighting Mandatory Measures
Indicate location on building plans of Mandatory Measures Note Block:
LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheets are included)
[] OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals.
[X] OLTG-2C (Pages 1 of 3) Lighting Wattage Allowances for General Hard scape, Sales Frontage, or Ornamental Lighting Optional on plans.
[] OLTG-2C (Pages 2 of 3) Lighting Wattage Allowance for Per Application or Per Area Optional on plans.
[] OLTG-2C (Pages 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements Optional on plans.
EnergyPro 5.1 by EnergySoft User Number: 6384 RunCode: 2011-05-18T11:46:37 ID Page 2 of 6

CERTIFICATE OF COMPLIANCE (Part 2 of 4) OLTG-1C
Project Name: City Heights Square Mini Park
Date: 5/18/2011
COMPLIANCE FIXTURE / LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST
INSTALLATION CERTIFICATE, OLTG-1INST (When a copy and verify form is completed and signed.) Field Inspection []
CERTIFICATE OF ACCEPTANCE, OLTG-2A (When a copy and verify form is completed and signed.) Field Inspection []
Luminaire Schedule Installed Watts
Table with columns: A, B, C, D, E, F, G, H, I, Field Inspection?
A: Name or Item Tag (i.e. 1 lamp pole-top shoe-box 400 watt metal halide)
B: Luminaire Description (See footnote below)
C: Cutoff Classification
D: Wattage of Luminaire
E: Special Features
F: Number of Luminaires
G: Total Watts (D x E)
H: Field Inspection?
I: Field Inspection?
Enter total into OLTG-1C, Page 4 of 4, Row H: Total Installed Watts: 292
Type of luminaire (i.e. post top, wall pack, surface shoe box, for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e. fluorescent, incandescent, HID), ballast type (i.e. electronic or magnetic), number of lamps and number of ballasts per luminaire. For incandescent luminaires, the luminaire wattage listed in column D shall be the maximum allowable wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 1904 or 9.)
2. If Fall then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.
EXEMPT LUMINAIRES Field Inspection []
Name or Symbol Description of exempt luminaires (in accordance with §147)
MANDATORY CONTROLS Field Inspection []
Table with columns: #, Description, Location, #, Description, Location
SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)
The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.
Filed Inspector Notes or Discrepancies:
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CERTIFICATE OF COMPLIANCE (Part 3 of 4) OLTG-1C
Project Name: City Heights Square Mini Park
Date: 5/18/2011
A. OUTDOOR LIGHTING ZONE
OUTDOOR LIGHTING ZONE: [] OLZ 1 [] OLZ 2 [X] OLZ 3 [] OLZ 4
Is the Outdoor Lighting Zone: [] Default in accordance with §10-114, or [] Amended by JHA
Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA)
[] The site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designated as L22 or L23, in accordance with Table 10-114-A, because the site is contained within such a zone.
[] The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in §10-114(f) to the Executive Director.
[] The adopted change is posted on the Energy Commission website.
B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS
Are additional lighting power allowances for ordinance in Table 147-C used? [] Yes [X] No
Complete the information below if additional lighting power allowances for ordinance requirements are used
[] The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change.
[] The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required §10-114(f) to the Executive Director.
C. ACCEPTANCE FORMS
Required Acceptance Tests
Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, OLTG-2A. The designer is required to check the acceptance tests, and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.
Enforcement Agency:
Systems Acceptance: Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The OLTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the OLTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.
Certificate of Acceptance
Table with columns: Equipment Requiring Testing, Description, City of Law Controls, Location, Outdoor Lighting Acceptance Tests
1. Insert OMS for Outdoor Motion Sensor, OLSC for Outdoor Lighting Shutoff Controls, OP for Outdoor Photocontrol, ATS for Astronomical Time Switch, and, STS for Standard (non-astronomical) Time Switch acceptance.
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CERTIFICATE OF COMPLIANCE (Part 4 of 4) OLTG-1C
Project Name: City Heights Square Mini Park
Date: 5/18/2011
ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER
Table with columns: A, B, C, D, E, F, G, H, Lighting Wattage Power Allowance
A: Lighting power allowance for general hard scape (from OLTG-2C Page 1 of 3) 1,446
B: Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3) 0
C: Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3) 0
D: Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3) 0
E: Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3) 0
F: Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3) 0
G: Total Allowed Wattage = Sum of rows A through F 1,446
H: Total installed watts (from Compliance Fixture Schedule, from OLTG-2C Page 1 of 3) 292
Compiles if wattage in row H is less than or equal to the wattages in row G [X] Yes [] No
EnergyPro 5.1 by EnergySoft User Number: 6384 RunCode: 2011-05-18T11:46:37 ID Page 5 of 6

LIGHTING MANDATORY MEASURES: NONRESIDENTIAL LTG-MM
Project Name: City Heights Square Mini Park
Date: 5/18/2011
Indoor Lighting Measures:
§131(d) Shut-off Controls
For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.
2. Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.
§119(f) Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.
§111 Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.
§131(a) Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-ceiling walls.
Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 Watts per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.
Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylight area controlled by a separate switch, or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.
§131(c) Display Lighting: Display lighting shall be separately switched on circuits that are 20 amps or less.
Outdoor Lighting Measures:
§130(c)1 Mandatory lighting power determination for medium base sockets without permanently installed ballasts.
§132(a) All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least 60 lumens per Watt or are controlled by a motion sensor.
§132(b) All luminaires with lamps rated greater than 175 Watts in hard scape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements.
§132(c)1 All permanently installed outdoor lighting meets the control requirements listed.
§132(c)2 Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements listed.
EnergyPro 5.1 by EnergySoft User Number: 6384 RunCode: 2011-05-18T11:46:37 ID Page 1 of 6

OUTDOOR LIGHTING WORKSHEET (Part 1 of 3) OLTG-2C
Project Name: City Heights Square Mini Park
Date: 5/18/2011
A. LIGHTING POWER ALLOWANCE FOR GENERAL HARDSCAPE
Table with columns: AREA WATTAGE ALLOWANCE (AWA), LINEAR WATTAGE ALLOWANCE (LWA), INITIAL WATTAGE ALLOWANCE, TOTAL GENERAL HARDSCAPE LIGHTING ALLOWANCE
A: Illuminated Hard scape Area 3,716
B: AWA Per Square Foot 0.092
C: AWA (A X B) 342
D: Perimeter Length of General Hardscape 363
E: LWA Per Linear Foot 0.920
F: LWA (D X E) 334
G: IWA (Watts) 770
H: TOTAL GENERAL HARDSCAPE LIGHTING ALLOWANCE C + F + G 1,446
Enter total into OLTG-1C, Page 4 of 4, Row A, Lighting Power Allowance for General Hardscape 1,446
B. SPECIFIC APPLICATION LIGHTING WATTAGE ALLOWANCE PER UNIT LENGTH (Available only for sales frontage)
DETERMINE WATTAGE ALLOWANCE LUMINAIRE TYPE DESIGN WATTS
Table with columns: Specific Lighting Application, Linear Foot of Frontage, Sales Frontage Allowance for OLZ (Watts per LF), Wattage Allowance (B X C), Name or Symbol, Luminaire Type, Lumini QTY, Watts Per Luminaire, Design Watts (G X H), Allowed Watts Minimum of D or I
C. SPECIFIC APPLICATION WATTAGE ALLOWANCE FOR ORNAMENTAL LIGHTING
DETERMINE WATTAGE ALLOWANCE LUMINAIRE TYPE DESIGN WATTS
Table with columns: Specific Lighting Application, Square feet of Hardscape, Ornamental Lighting Allowance for OLZ (Watts per SF), Wattage Allowance (B X C), Name or Symbol, Luminaire Type, Lumini QTY, Watts Per Luminaire, Design Watts (G X H), Allowed Watts Minimum of D or I
Enter total into OLTG-1C, Page 4 of 4, Row C, Specific Application Wattage for Ornamental Lighting 0
EnergyPro 5.1 by EnergySoft User Number: 6384 RunCode: 2011-05-18T11:46:37 ID Page 6 of 6

CITY CONTRACT E-3
PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK TITLE 24 CALCULATIONS
CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 18 OF 21 SHEETS
WBS S-01070
APPROVED FOR CITY ENGINEER: Sam M. 9/1/12
DATE: 8/30/12
PROJECT ENGINEER: A. CORSI
PROJECT MANAGER: A. CORSI
PROJECT ENGINEER: 210-1737
COORDINATOR: CS27
COORDINATOR: 1850-6298
COORDINATOR: CS83
CONTRACTOR: DATE STARTED
INSPECTOR: DATE COMPLETED
36416-18-D

CITY HEIGHTS SQUARE MINI PARK

STRUCTURAL ABBREVIATIONS

Table of structural abbreviations with columns for symbol, description, and notes. Includes terms like ANCHOR BOLT, ABOVE, ADJACENT, ALUMINUM, AMERICAN PLYWOOD ASSOC., ALTERNATE, APPROXIMATELY, ARCHITECTURAL, etc.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK AND THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES... 2. ALL CHANGES AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS... 3. NO PIPES OR DUCTS SHALL BE PLACED IN WALLS UNLESS SPECIFICALLY SHOWN OR NOTED ON STRUCTURAL DRAWINGS...

FOUNDATION NOTES

- 1. MAXIMUM DESIGN SOIL PRESSURE: 2,000 PSF CONTINUOUS FOOTINGS: - PAD FOOTINGS: - 2. SEE SOILS REPORT BY: N/A (CBC MINIMUM) PROJECT NUMBER: - DATED: - 3. ALL FOOTINGS TO BE A MINIMUM OF 18" BELOW NATURAL GRADE...

STATEMENT OF SPECIAL INSPECTIONS

Table with columns: MATERIAL, SYSTEM, COMPONENT AND WORK REQUIRED TO HAVE SPEC. INSP., TYPE OF SPEC. INSP., INSPECTION NOTES. Includes sections for CONCRETE, STRUCTURAL STEEL (WELDING), and SPECIAL INSPECTION GENERAL NOTES.

REINFORCING STEEL NOTES

- 1. BAR REINFORCEMENT SHALL BE: GR 40 + #4 @ 18" MAXIMUM 4" MINIMUM. 2. THE 'CARBON EQUIVALENT' OF ANY REINFORCING TO BE WELDED SHALL BE DETERMINED BY A TESTING LAB... 3. VERTICAL BARS IN WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF WALL CHAPTERS 18 AND 21 OF THE 2007 CBC... 4. ALL REINFORCING STEEL, ANCHOR BOLTS, DONNELLS, AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE...

CONCRETE NOTES

- 1. CONCRETE IN ALL WORK SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS EXCEPT AS MODIFIED BY THESE NOTES... 2. LIGHT WEIGHT CONCRETE SHALL BE AIR ENTRAINED AND HAVE A DENSITY RANGE OF 115 PCF MAXIMUM AND 100 PCF MINIMUM... 3. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER WHEN CONCRETE REQUIRES SPECIAL INSPECTION... 4. ADMIXTURES MAY BE USED WITH THE PRIOR APPROVAL OF THE ENGINEER... 5. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE CAST INTO CONCRETE... 6. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR REVIEW BEFORE FABRICATION AND INSTALLATION...

WOOD NOTES

- 1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR (D.F.) OR LARCH WITH THE GRADE MARKED BY A RECOGNIZED GRADING AGENCY (M.C.L.A. AND M.N.P.A.). 2. WOOD GRADES (UNLESS OTHERWISE NOTED) 3. ALL SILLS, PLATES & LEDGERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESURE TREATED (P.T.D.F.) BOLTS SHALL BE PLACED 5" MAX. FROM THE END OF A BOARD OR A NOTCH IN THE BOARD AND SPACED AT INTERVALS NOTED IN PLANS OR SCHEDULES... 4. ALL FLYWOOD AND OSB SHALL BE CERTIFIED AS CONFORMING TO U.S. PRODUCTS STANDARD PS-2-92 BY A CERTIFICATION AGENCY APPROVED BY THE NATIONAL EVALUATION SERVICES INC. OR ICC... 5. ALL BOLT HEADS AND NUTS BEARING ON WOOD SHALL HAVE WASHERS. ALL BOLT HOLES IN WOOD SHALL BE DRILLED 1/16" MAXIMUM DIAMETER LARGER THAN NOMINAL BOLT DIAMETER...

SPECIAL INSPECTION GENERAL NOTES

- 1. THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS... 2. THE CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE... 3. WHEN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS PERFORMED SIMULTANEOUSLY, OR THE LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE OBSERVED PER THE STATEMENT OF SPECIAL INSPECTIONS AND SECTION 11095 OF THE BUILDING CODE, IT SHALL BE THE AGENCY'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT THE REQUIRED INSPECTIONS ARE PROVIDED... 4. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE LOCAL JURISDICTION, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION... 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION... 6. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD OR ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION... 7. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE LOCAL JURISDICTION, DEVELOPMENT SERVICES, FOR TESTING MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENTS... 8. FABRICATOR MUST BE REGISTERED AND APPROVED BY THE LOCAL JURISDICTION, DEVELOPMENT SERVICES FOR THE FABRICATIONS OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP... 9. WHERE MATERIALS OF ASSEMBLIES ARE REQUIRED BY THE BUILDING CODE TO BE LABELED, SUCH MATERIALS AND ASSEMBLIES SHALL BE LABELED BY AN AGENCY APPROVED BY LOCAL JURISDICTION IN ACCORDANCE WITH SECTION 11093, PRODUCTS AND MATERIALS TO BE LABELED SHALL BE TESTED, INSPECTED AND LABELED IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN SECTIONS 11093.5.1 THROUGH 11093.5.3... 10. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE FIELD INSPECTION DIVISION OF THE APPROVING MUNICIPALITY

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 'AISC SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS', LATEST EDITION... 2. ALL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO ASTM A36 (U.O.N.)... 3. USE GRADE 50, A572 OR DUAL CERTIFIED FOR HIGH FLANGE BEAMS AND COLUMNS... 4. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM-A500, GRADE 'B' F-46 INSI... 5. ALL STEEL PIPES SHALL CONFORM TO ASTM-A53 GRADE-B... 6. MACHINE BOLTS, ANCHOR BOLTS, SHALL CONFORM TO ASTM A-307 (U.O.N.)... 7. NUTS FOR MACHINE BOLTS SHALL CONFORM TO ASTM A563, HEX GRADE 'A'... 8. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325... 9. NUTS FOR HIGH STRENGTH BOLTS SHALL BE HEAVY HEX, GRADE 'C' CONFORMING WITH ASTM A563... 10. ALL WELDING SHALL CONFORM TO AIAA STANDARDS... 11. ALL WELDING SHALL CONFORM TO AIAA STANDARDS... 12. ALL WELDING SHALL CONFORM TO AIAA STANDARDS... 13. ALL FIELD WELDS TO BE SPECIAL INSPECTED, U.O.N. ON PLANS... 14. ALL FULL PENETRATION GROOVE WELDS FOR DUCTILE MOMENT FRAME MEMBERS SHALL BE ULTRASONICALLY INSPECTED BY AN APPROVED TESTING AGENCY AND SHALL CONFORM TO THE LATEST EDITION OF AWS D11 SECTIONS 5 AND 6... 15. WEB CONNECTION OF RIGID FRAME BEAMS SHALL NOT BE TIGHTENED UNTIL FLANGE WELDS ARE COMPLETE ALONG EACH LINE OF COLUMNS AT EACH LINE OF FLOOR... 16. HIGH STRENGTH BOLTING OF MAIN MEMBERS: A. NON-RIGID FRAME CONNECTIONS LISTED BELOW SHALL HAVE ASTM A325N OR OR ASTM A490N HIGH STRENGTH BOLTS U.O.N. 1. BEAMS AND GIRDERS TO COLUMNS 2. BEAMS TO GIRDERS 3. BEAMS TO BEAMS B. NON-RIGID FRAME CONNECTIONS (GIRDER TO COLUMNS): ASTM A325C OR ASTM A490C HIGH STRENGTH BOLTS U.O.N. C. OTHER HIGH STRENGTH A325 BOLTS TO BE TESTED OCCASIONALLY AS DIRECTED BY THE STRUCTURAL ENGINEER.

CONSTRUCTION CHANGE / ADDENDUM table with columns: CHANGE, DATE, AFFECTED OR ADDED SHEET NUMBERS, APPROVAL NO.

WARNING table with a scale bar and text: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO PUBLIC WORKS PROJECT



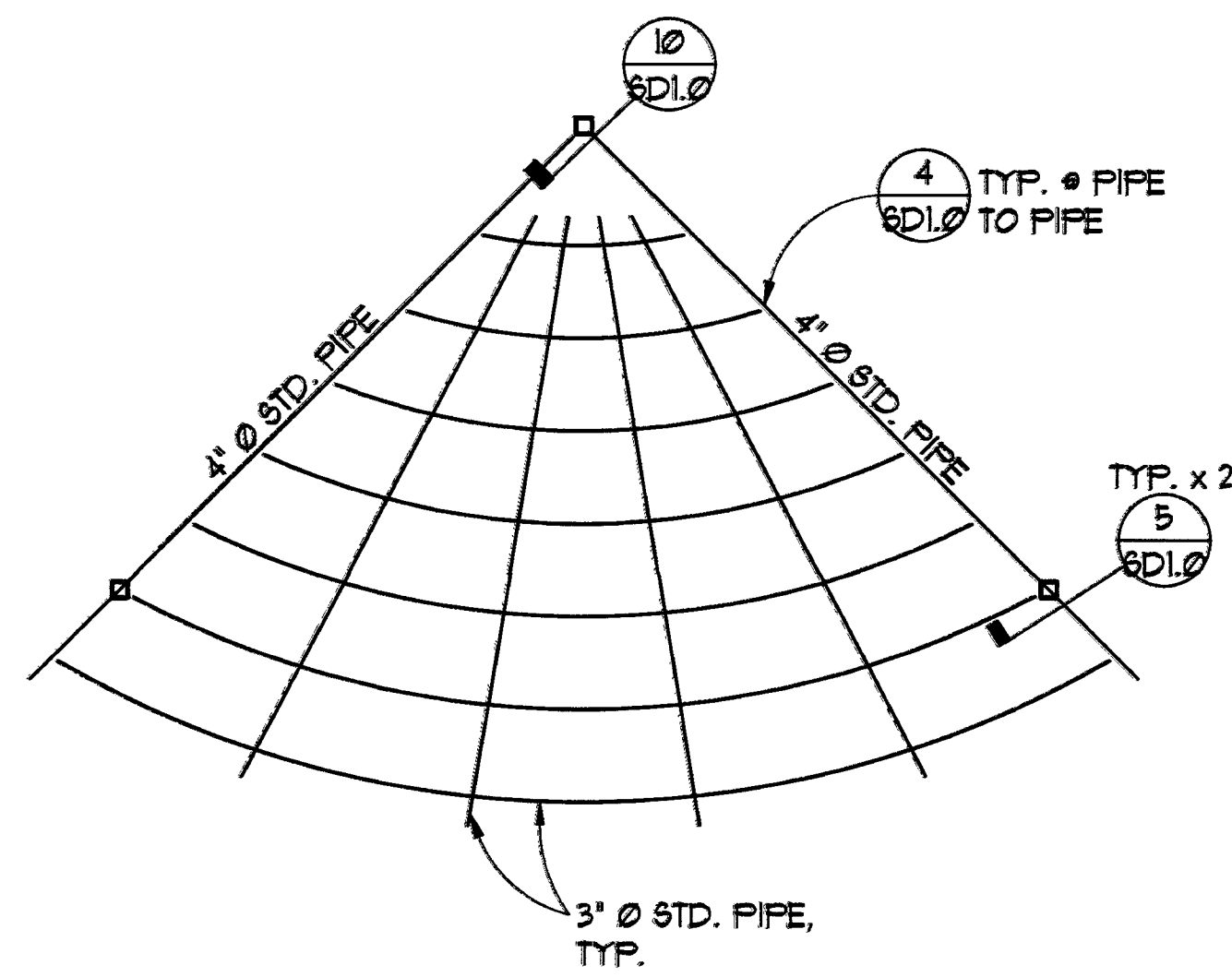
AS BUILT INFORMATION table with columns: MATERIALS, MANUFACTURER. Lists items like PIPE CL 235 (WATER), PIPE SDR 35 (SEWER), GATE VALVES, FIRE HYDRANTS, SEWER MANHOLES, REHABILITATE SEWER MANHOLES, REHABILITATE SEWER MAIN.



CITY CONTRACT SPEC No. C.I.P. No. 29-956.0 SP1 PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK STRUCTURAL NOTES

Table for project details including City of San Diego, California Engineering and Capital Projects Department, SHEET 19 OF 21 SHEETS, WATER WBS, SEWER WBS, APPROVED, FOR CITY ENGINEER, DATE, FILMED, DESCRIPTION, BY, APPROVED, DATE, SECTION-H, CC827 COORDINATE, 210-1737, 1850-6298, CC883 COORDINATE, CONTRACTOR, DATE STARTED, 36416-19-D, INSPECTOR, DATE COMPLETED.

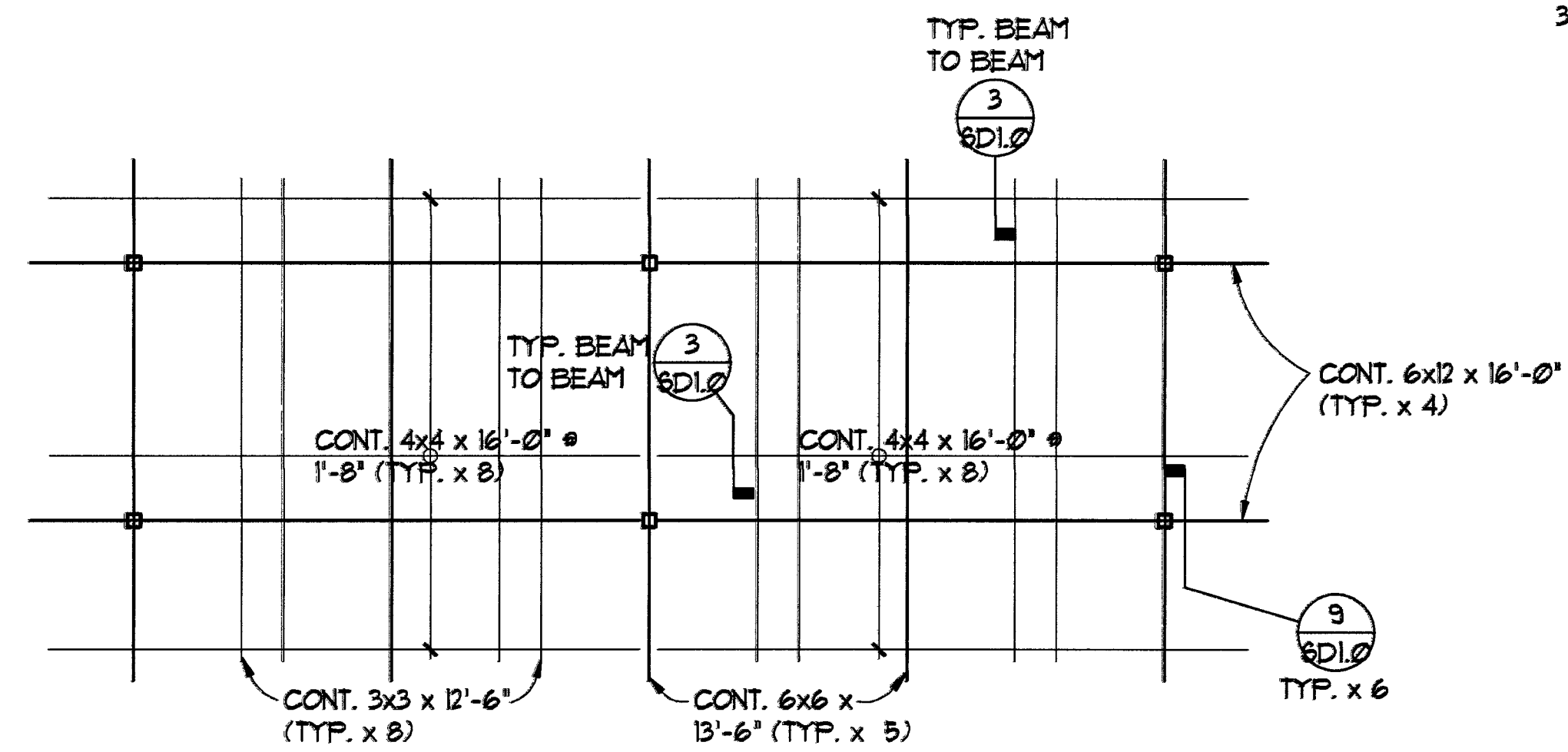
CITY HEIGHTS SQUARE MINI PARK PLOTTED ON: 8/1/2012 BY: Masood Z



TRELLIS FRAMING PLAN

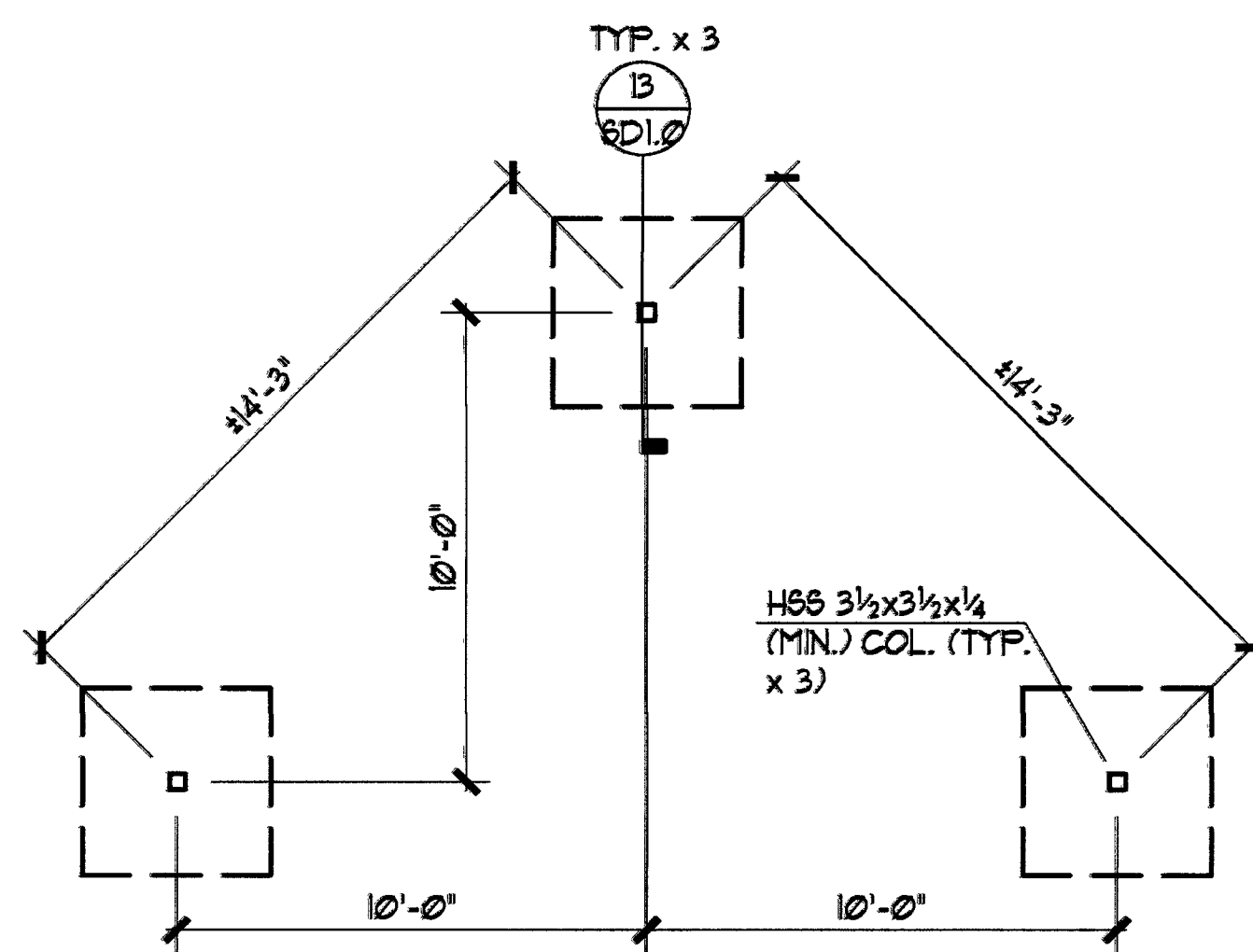
SCALE: 1/4" = 1'-0"

ADDITIVE ALTERNATIVE 'A'



TRELLIS FRAMING PLAN

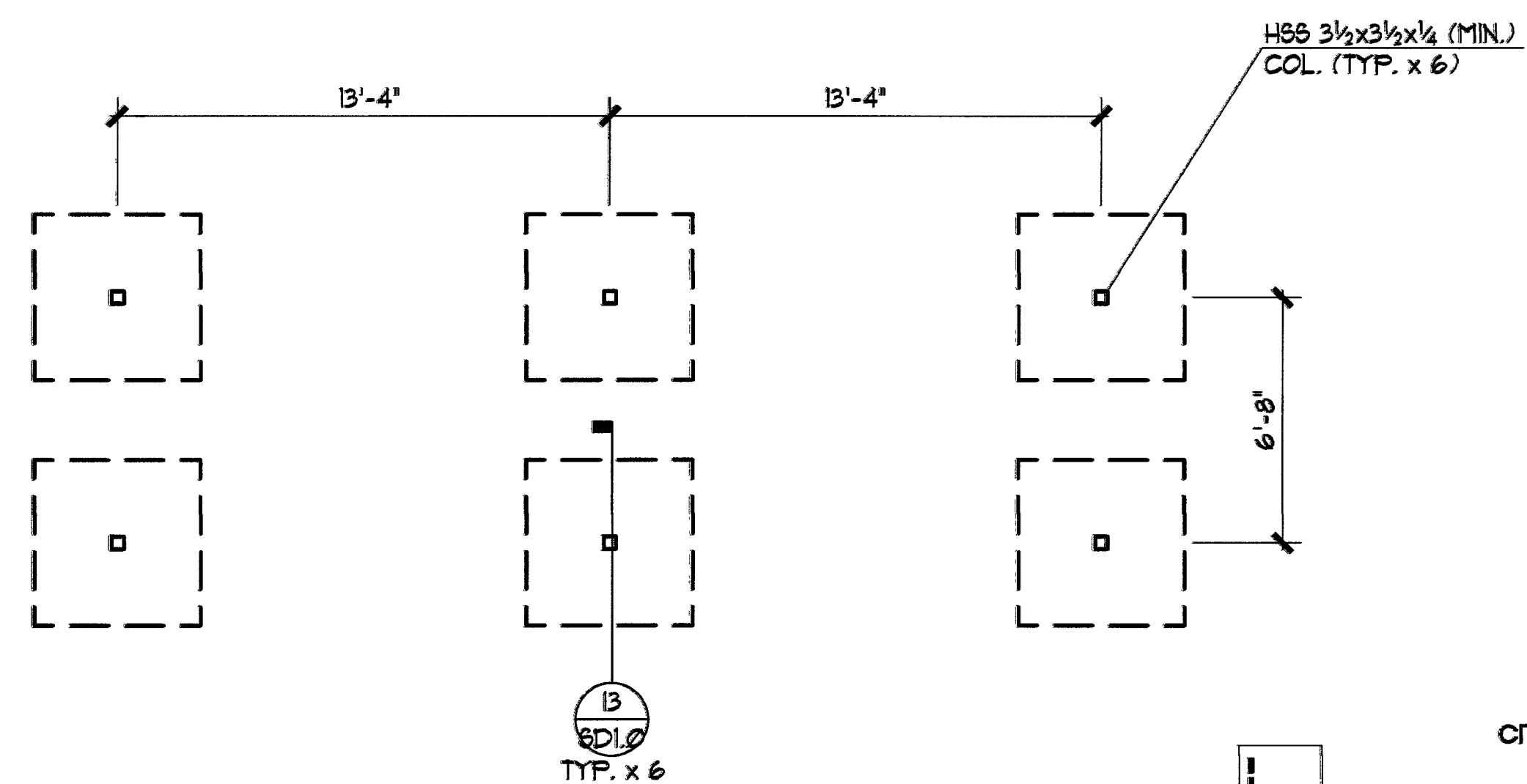
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FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

ADDITIVE ALTERNATIVE 'A'



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

HTK HOROWITZ TAYLOR KUSHKAKI
STRUCTURAL ENGINEERS
14288 Danielson Street • Suite 200
Poway, Ca. 92064
(858) 679-8989 • Fax (858) 679-8959

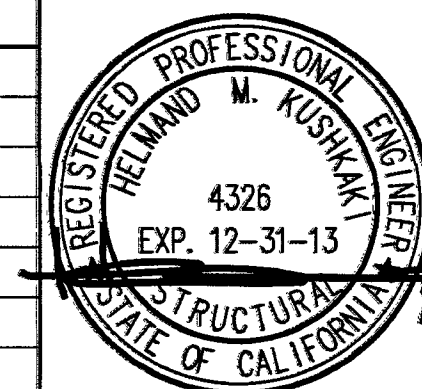
- NOTES:**
1. SCALING OF STRUCTURAL DRAWINGS IS NOT ALLOWED.
 2. FOR DIMENSIONS NOT SHOWN SEE ARCH. DRAWINGS.
 3. FOR ADDITIONAL NOTES SEE SHEET 9P1.

CITY CONTRACT

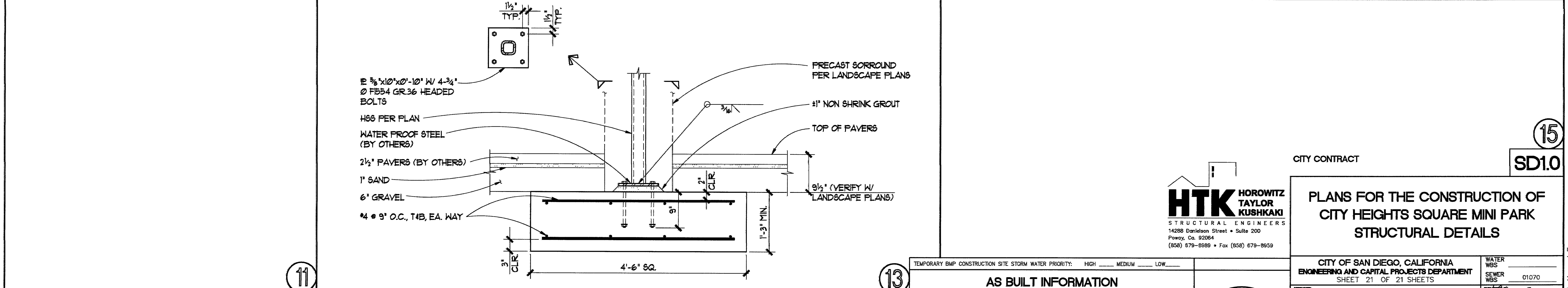
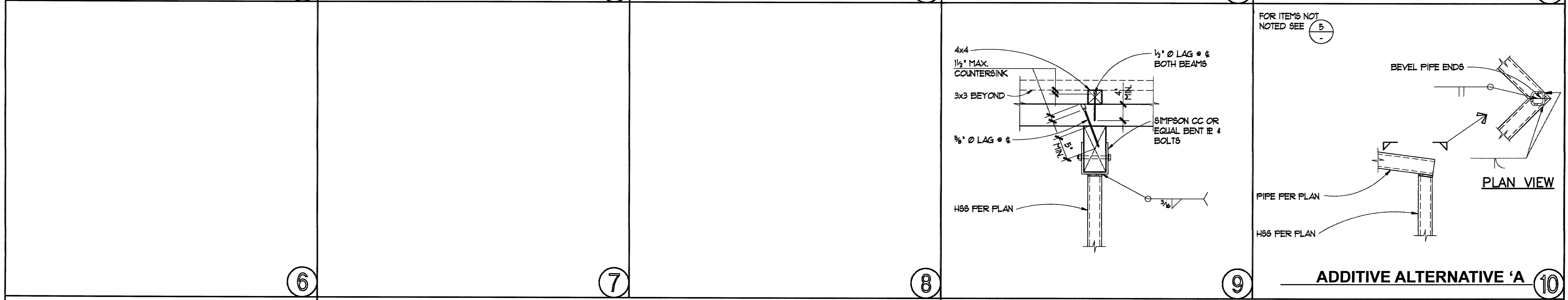
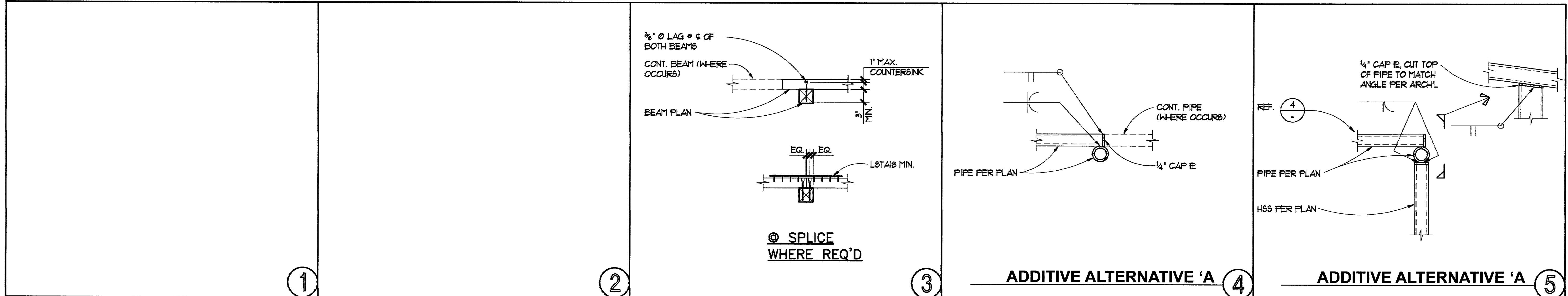
S1

**PLANS FOR THE CONSTRUCTION OF
CITY HEIGHTS SQUARE MINI PARK
STRUCTURAL PLANS**

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM LOW	
AS BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-



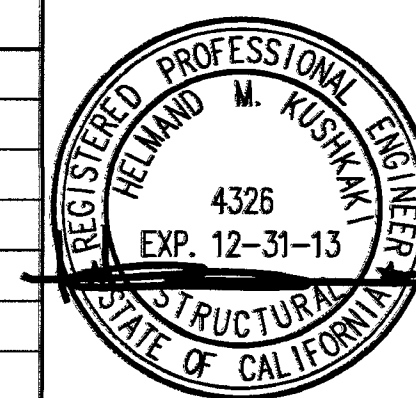
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 20 OF 21 SHEETS				WATER WBS	
APPROVED: <i>Samuel</i> FOR CITY ENGINEER DATE: 7/4/12				SEWER WBS	01070
DESIGNED: <i>Paul W</i> PROJECT MANAGER					
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	HTK		7/30/12		
					SECTION HEAD
					210-1737
					CC887 COORDINATE
					1850-6298
					CC883 COORDINATE
CONTRACTOR	DATE STARTED				36416-20-D
INSPECTOR	DATE COMPLETED				



TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ LOW _____

AS BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

HTK HOROWITZ
TAYLOR
KUSHKAKI
STRUCTURAL ENGINEERS
14288 Danielson Street • Suite 200
Poway, Ca. 92064
(858) 679-8989 • Fax (858) 679-8959



CITY CONTRACT **SD10**

PLANS FOR THE CONSTRUCTION OF CITY HEIGHTS SQUARE MINI PARK STRUCTURAL DETAILS

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 21 OF 21 SHEETS

APPROVED: *Sam M.* 9/4/12
FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	HTK		7/30/12	

WATER WBS _____
SEWER WBS 01070

PROJECT MANAGER: *Handy*

SECTION HEAD: 210-1737
CS27 COORDINATE: 1850-6298
CS88 COORDINATE: _____

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36416-21-D