

# City of San Diego

CONTRACTOR'S NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_  
CITY CONTACT: Bijan Shakiba 600 B Street Ste 800 M.S. 908A, San Diego CA 92101  
Email: [bshakiba@sandiego.gov](mailto:bshakiba@sandiego.gov) Ph (619) 533-5191 Fax (619) 533-5176  
AR/LJI/CA

## CONTRACT DOCUMENTS



## FOR

## SEWER AND WATER GROUP 788

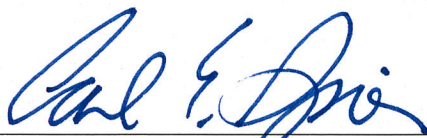
VOLUME 1 OF 2

BID NO.: \_\_\_\_\_ K-13-5371-DBB-3  
SAP NO. (WBS/IO/CC): \_\_\_\_\_ B-00379 / B-00106  
CLIENT DEPARTMENT: \_\_\_\_\_ 2000  
COUNCIL DISTRICT: \_\_\_\_\_ 7  
PROJECT TYPE: \_\_\_\_\_ JA / KA

**THIS CONTRACT IS SUBJECT TO THE FOLLOWING:**

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

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

  
\_\_\_\_\_  
Professional Engineer or Licensed Architect

Seal:



(((((((((((((((((((( **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/>



## TABLE OF CONTENTS

<b>DESCRIPTION</b>	<b>PAGE NUMBER</b>
1. REQUIRED DOCUMENTS SCHEDULE.....	4 - 5
2. SPECIAL NOTICE SLBE AND ELBE PROGRAM.....	6 - 12
3. INVITATION TO BID(S) .....	13 - 15
4. INSTRUCTION TO BIDDER(S).....	16 – 24
5. CONTRACT FORMS	
1. Agreement/Contract .....	25 - 26
2. Performance Bond and Labor and Materialmen’s Bond .....	27 - 28
6. CONTRACTOR CERTIFICATION	
1. Drug-Free Workplace .....	29
2. American with Disabilities Act (ADA) Compliance.....	30
3. Contractor Standards - Pledge of Compliance .....	31
4. Affidavit of Disposal .....	32
5. Phased Funding Schedule Agreement .....	33
7. SUPPLEMENTARY SPECIAL PROVISIONS .....	34 - 94
8. APPENDICES:	
• APPENDIX A - Mitigated Negative Declaration.....	95 - 142
• APPENDIX B - Fire Hydrant Meter Program .....	143 - 157
• APPENDIX C - Materials Typically Accepted by Certificate of Compliance .....	158 - 159
• APPENDIX D - Sample City Invoice .....	160 - 161
• APPENDIX E - Adjacent Projects .....	162 - 164
• APPENDIX F - Hydrostatic Discharge Form .....	165 - 166
• APPENDIX G - Agreement for Application of Emulsion-Aggregate Slurry .....	167 - 175
• APPENDIX H - Updated Standard Drawings.....	176 – 184
• APPENDIX I - Sewer Mains and Manhole Rehabilitation Sample Data Templates .....	185 - 187

## REQUIRED DOCUMENTS SCHEDULE

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

The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at: <http://www.sandiego.gov/eoc/forms/index.shtml>

ITEM	WHEN	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
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GFE	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GFE	ALL BIDDERS	SLBE-ELBE Good Faith Documentations
11.	WITHIN 3 WORKING DAY OF BID OPENING WITH GFE	ALL BIDDERS	Form AA60 – List of Work Made Available
12.	WITHIN 5 WORKING DAYS OF BID OPENING	ALL BIDDERS	Contractor's Experience and Past Project Documentation per Section 807-1.2 and 807-1.3
13.	WITHIN 5 WORKING DAYS OF BID OPENING	3 APPARENT LOWEST BIDDERS	Contractor's Experience and Past Project Documentation per Section 500-1.1.2.1
14.	WITHIN 5 WORKING DAYS OF BID OPENING	3 APPARENT LOWEST BIDDERS	Manufacturer Authorization/Certification per Section 500-1.1.2.1
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Phased Funding Schedule Agreement (when required)
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Pre-Award Schedule (Phased Funded Contracts Only)

## REQUIRED DOCUMENTS SCHEDULE

ITEM	WHEN	BY	WHAT
17.	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.
18.	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"> <li>o Joint Venture Agreement</li> <li>o Joint Venture License</li> </ul>
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
20.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
21.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
22.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
23.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
24.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
25.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance
26.	BY 5th OF EACH MONTH	CONTRACTOR	Form CC20 - Monthly Employment Report
27.	BY 5th OF EACH MONTH	CONTRACTOR	Form CC25 - Monthly Invoicing Report
28.	PRIOR TO ACCEPTANCE	CONTRACTOR	Form CC10 - Contract Change Order (CCO)
29.	PRIOR TO ACCEPTANCE	CONTRACTOR	Form CC15 - Final Summary Report
30.	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. **ADVERTISEMENT REQUIREMENTS**

Advertisements for subcontract work must comply with the following requirements:

1. Advertisements must be published at least 10 Working Days prior to bid opening. Provide the names and dates of each publication of where the advertisement was published.

Note: The advertisement is not required to be published everyday for the 10 Working Days prior to bid opening.

2. There must be at least 2 advertisements published, 1 advertisement in a trade publication and 1 in a focus group publication. Additional advertising for SLBE-ELBE participation may be placed in newspapers, trade papers and on the Internet. For a listing of publications accepting advertisements, please visit the City's EOC home page at <http://www.sandiego.gov/eoc/>

- 2.1 Newspaper advertisements must be in the Bids Wanted, Legal Notices section of the Classified Ads, Subcontracting Opportunities or Business Opportunities **NOT** the Employment Opportunities Section.

3. Advertisements must state which items or portions of work the Bidder is requesting subcontractor pricing.

- 3.1 It is the Bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE subcontractor participation percentage was made available to SLBE-ELBE firms. The Bidder shall make as many items of Work available as possible to meet specified subcontracting participation percentage and at a minimum an amount of work equal to the specified subcontracting participation amount. If necessary to reach the specified subcontracting participation percentage, the Work shall include those items normally performed by the Bidder with its own forces or 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. Advertisements must state that Plans and Specifications are available at no cost to interested SLBE-ELBE firms and how to obtain them.

5. Advertisements must state that assistance is available from the Bidder for SLBE-ELBE Subcontractors in obtaining necessary equipment, supplies, or materials.



6. Advertisements 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 proof of publication of each advertisement by providing the publication affidavit which must include a legible copy of the entire advertisement and the original ENTIRE page of the publication in which the advertisement appears.

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

Bidders must directly solicit SLBE-ELBE firms on the City's approved SLBE-ELBE list. Solicitations for Subcontractor or Supplier work must comply with the following requirements:

1. The solicitation must be dated and list the name of the SLBE-ELBE firm. Solicitations must be made to the SLBE-ELBE firms at least 10 Working Days prior to bid opening.
2. Solicitation must state which items or portions of work the Bidder is requesting subcontractor pricing.
  - 2.1 It is the Bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE subcontractor participation percentage was made available to SLBE-ELBE firms. The Bidder shall make as many items of Work available as possible to meet the specified subcontractor participation percentage and at a minimum an amount of work equal to the subcontractor participation amount. If necessary to reach the specified subcontracting participation percentage, the Work shall 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.
3. Solicitation must state that Plans and Specifications 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 subcontractors 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** SLBE-ELBE firms on the City's approved list, who have the NAICS code for the subcontract work sought by the Contractor.
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.

C. **SLBE-ELBE WRITTEN SOLICITATION FOLLOW-UP REQUIREMENTS**

Bidders must follow-up with all SLBE – ELBE firms that were notified of the subcontracting 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 Working Days prior to bid opening.
2. Bidders must follow up with all SLBE-ELBE firms in writing. Bidders must provide copies of **ALL** written follow up notices with one of the following forms of verification that the follow up 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.

3. Bidders must make at least 3 follow-up telephone calls to each SLBE – ELBE firm at least 5 days prior to bid opening date. Bidders must submit a telephone log as identified below.

- 3.1. Submit a telephone log, as proof of telephone call, 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.

#### D. 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 or Supplier name, bid amount, certification type, Subcontractor or Supplier selection and reason for selection or non-selection of all the Subcontractor or Supplier that responded.
2. Copies of all Subcontractor or Suppliers bids received including bids for areas of work that were not included in the outreach and quotes from both certified and non-certified Subcontractors or Suppliers. Subcontractor bid amounts **MUST** match the bid-listed dollar amounts on form AA35 and AA40 submitted with Bidders sealed bid and the summary sheet dollar amounts **MUST** also match these amounts. If the Bidder decides to self-perform a scope of work, the Bidder **MUST** submit a detailed quote to show that the Bidder's price is competitive to the price of the subcontractors that responded to outreach efforts. All dollar amounts and scopes of work on the Subcontractor or Supplier bid must not be altered by the prime Bidder. If a revision is necessary, a revised quote must be obtained and provided. All verbal quotes **MUST** be substantiated by corresponding written quote from the Subcontractor or Supplier.

#### E. OUTREACH ASSISTANCE REQUIREMENTS

Written notice of subcontractor 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's EOC 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 Workings Days prior to bid opening.
3. Written notice must state which items or portions of work the Bidder is requesting subcontractor pricing.
  - 3.1 It is the Bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE subcontractor participation percentage was made available to SLBE-ELBE firms. The Bidder shall make as many items of Work available as possible to meet the subcontractor participation percentage, and at a minimum an amount of work equal to the subcontracting participation amount. If necessary to reach the subcontractor 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 Specifications 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 Subcontractors 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 level (percentage), the City will not account for the Field Orders, Additive or Deductive, and Type II Allowance Bid Items in the calculation. Type I - Allowance Bid Items are part of the Base Bid integral to the scope of work.

**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	<b>7.3%</b>
2. ELBE participation	<b>15.0%</b>
3. Total mandatory participation	<b>22.3%</b>

**4.2.** For the purpose of achieving the Mandatory Subcontractor Participation level (percentage), the City will not account for the Field Orders, Additive or Deductive, and Allowance Bid Items 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 Day of the Bid opening if the overall mandatory participation percentage is not met.

**7. BID DISCOUNT.** This contract **is not** 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:** Bid(s) will be received at the Public Works Contracting Group at **1200 THIRD AVENUE, SUITE 200, SAN DIEGO, CA 92101 UNTIL 2:00 PM ON AUGUST 14, 2012** for performing work on the following project (Project):

### SEWER AND WATER GROUP 788

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 consists of the installation of approximately of 18,473 Linear Feet of New 8” Sewer Main, Sewer Laterals, Sewer Lateral Replumbings and 1,731 Linear Feet of New 8” and 12” Water Mains, Water Services, Valves, Fire Hydrants. In Addition to installing Curb Ramps and Street Resurfacing**

The Work shall be performed in accordance with:

- Bid No. **K-13-5371-DBB-3** and Plans numbered **33342-1-D** through **33342-38-D**, inclusive.

3. **ENGINEER’S ESTIMATE:** The Engineer’s estimate of the most probable price for this contract is **\$5,210,000**.

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

**The project is located in the Eastern Area Community on Vista Grande Drive, Loma Alta Drive, Aragon Drive, Casita Way, Donna Avenue, 69th Street, Veronica Avenue, Marlowe Drive, Celia Vista Drive, Donna Way, Missy Court, and Harvala Street.**

5. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **370 Working Days**.

6. **SUPPLEMENTAL AGREEMENTS:** Supplemental agreements attached to this contract for the items of Work such as extended re-vegetation maintenance and monitoring and emulsion aggregate slurry shall be signed upon the request from the Engineer and prior to Acceptance. The signed agreements shall be accompanied by the evidence of separate bond (i.e., labor and materials) and insurance (i.e., Commercial General Liability Insurance, Commercial Automobile Liability Insurance, and Workers’ Compensation Insurance) as specified in 2-4, “CONTRACT BONDS,” 7-3, “LIABILITY INSURANCE,” and 7-4 **WORKERS’ COMPENSATION INSURANCE**. Bonds shall be in amount of the Contract Price for the Work included in the supplemental agreements.

7. **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:

Option	Classification(s)
1	CLASS A
2	CLASS C34

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

8. **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 A.M., on July 25, 2012.**

All potential 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.

9. **CITY PROJECT MANAGER CONTACT INFORMATION:** See the cover of the Contract Documents.

10. **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>.

**11. 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.

**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).

**13. ADDITIVE/DEDUCTIVE ALTERNATES:** The additive/deductive alternates have been established to allow the City to compare the cost of specific portions of the Work with the Project’s budget and enable the City to make decision prior to award. The award will be established as described in the Proposal (or RFP for Design-Build contracts). The City reserves the right to award the Contract for the Base Bid only or the Base Bid plus any combination of Additive and Deductive Alternate(s).

For water pipeline projects, the Plans typically show all cut and plug and connection work to be performed by City Forces. However, Bidders shall refer to Bidding Documents to see if all or part of this work will be performed by the Contractor.

**14. PHASED FUNDING:** The Apparent Low Bidder will be required to provide a Pre-award Schedule in accordance with sections 9-3 and 6-1 of the Supplementary Special Provisions (SSP) prior to award of Contract.

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 Project, 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](mailto: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.
10. **QUESTIONS:** Questions about the meaning or intent of the Contract Documents as related to the scope of Work and of technical nature shall be directed to the Contract Specialist prior to Bid opening. 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. For Minor Construction Contracts, the City will notify all parties recorded by the City as having received the Contract Documents that an addendum has been issued regarding this procurement.

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 (whose name can be found on the cover of this document), 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. 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 Schedule," (see Volume 1). Bidder is requested to retain for their reference other portions of the Contract Documents that are not required to be submitted with the Bid.

The 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:**

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

- d) A non-selected Bidder may protest award of the Contract to the selected Bidder by submitting a written "Notice of Intent to Protest" including supporting documentation which shall be received by Public Works Contracting Group no later than 10 days after the City's announcement of the selected Bidder or no later than 10 days from the date that the City issues notice of designation of a Bidder as non-responsible in accordance with San Diego Municipal Code Chapter 2, § 22.3029, "Protests of Contract Award."
- e) 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.
- f) 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.
- g) 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](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/](http://www.sandiego.gov/purchasing/) or can be requested from the Equal Benefits Program at (619) 533-3948.

**26. 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.

Pre-award Schedule and Phased Funding - For phased funded contracts, One of the Pre-award Submittals is the Pre-award Schedule which is a cost loaded CPM schedule prepared in accordance with section 6-1.1, “Construction Schedule.” The Apparent Low Bidder (or the apparent winner in case of Design-Build contracts) shall review subsection 6-1.4, “Phased Funding” and submit the required information as specified.

**AFFIDAVIT OF DISPOSAL**

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

**SEWER AND WATER GROUP 788**

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-13-5371-DBB-3**; SAP No. (WBS/IO/CC) **B-00379 & B-00106**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Dated this \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Contractor  
by

**ATTEST:**

State of \_\_\_\_\_  
County of \_\_\_\_\_

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

Notary Public in and for said County and State

# 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 ORTIZ CORPORATION, herein called "Contractor" for construction of Sewer and Water Group 788; Bid No. K-13-5371-DBB-3; in the amount of THREE MILLION SIX HUNDRED SEVENTY NINE THOUSAND FOUR DOLLARS AND 70/100 (\$3,679,004.70), which is comprised of the Base Bid plus Additive Alternate A.

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 Sewer and Water Group 788, on file in the office of the City Clerk as Document No. B-00379 & B-00106, 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 Sewer and Water Group 788, Bid Number K-13-5371-DBB-3, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and 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 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By Tony Heinrichs

By Pedro De Lara, Jr.

Print Name: Tony Heinrichs  
Director, Public Works

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

Date: February 1, 2013

Date: 2/5/13

CONTRACTOR

By Marcelino E. Ortiz

Print Name: MARCELINO E. ORTIZ

Title: PRESIDENT

Date: 09/11/12

City of San Diego License No.: B1996008117

State Contractor's License No.: 602454

**CONTRACT FORMS (continued)**  
**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**  
Issued in Triplicate

---

**FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:**

ORTIZ CORPORATION, a corporation, as principal, and International Fidelity 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 THREE MILLION SIX HUNDRED SEVENTY NINE THOUSAND FOUR DOLLARS AND 70/100 (\$3,679,004.70) for the faithful performance of the annexed contract, and in the sum of THREE MILLION SIX HUNDRED SEVENTY NINE THOUSAND FOUR DOLLARS AND 70/100 (\$3,679,004.70) for the benefit of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract Sewer And Water Group 788, K-13-5371-DBB-3, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

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

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

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

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

---

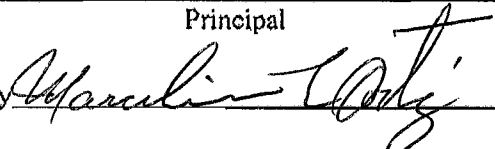
The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated September 5th, 2012

Approved as to Form and Legality

Ortiz Corporation

Principal

By 

Marcelino E. Ortiz, President

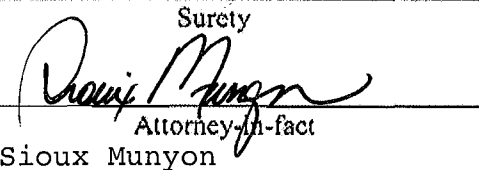
Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By   
Deputy City Attorney

International Fidelity Insurance Company

Surety


By   
Attorney-in-fact

Sioux Munyon

Approved:

13400 Sabre Springs Parkway, #245

Local Address of Surety

By   
Tony Heinrichs  
Director, Public Works

San Diego CA 92128

Local Address (City, State) of Surety

858-513-1795

Local Telephone No. of Surety

Premium \$ 26,763.00

Bond No. 0595881

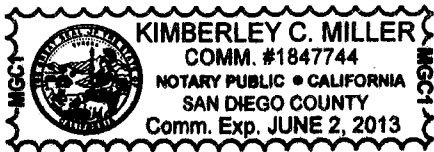
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
County of San Diego

On September 5, 2012 before me, Kimberely C. Miller, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Sioux Munyon  
Name(s) of Signor(s)

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



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

WITNESS my hand and official seal.

Signature: Kimberely C. Miller  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_

Individual

Partner —  Limited  General

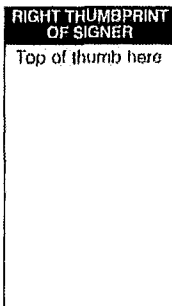
Attorney in Fact

Trustee

Guardian or Conservator

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_

Individual

Partner —  Limited  General

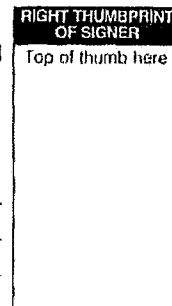
Attorney in Fact

Trustee

Guardian or Conservator

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_





# POWER OF ATTORNEY

## INTERNATIONAL FIDELITY INSURANCE COMPANY ALLEGHENY CASUALTY COMPANY

ONE NEWARK CENTER, 20TH FLOOR NEWARK, NEW JERSEY 07102-5207

KNOW ALL MEN BY THESE PRESENTS: That INTERNATIONAL FIDELITY INSURANCE COMPANY a corporation organized and existing under the laws of the State of New Jersey, and ALLEGHENY CASUALTY COMPANY a corporation organized and existing under the laws of the State of Pennsylvania, having their principal office in the City of Newark, New Jersey, do hereby constitute and appoint

SIoux MUNYON

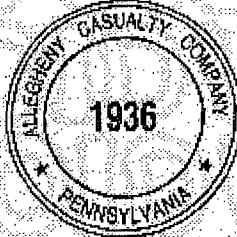
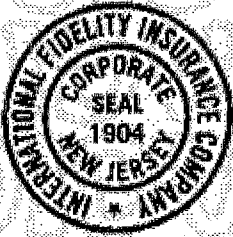
Lakeside, CA.

their true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY and is granted under, and by authority of the following resolution adopted by the Board of Directors of INTERNATIONAL FIDELITY INSURANCE COMPANY at a meeting duly held on the 20th day of July, 2010 and by the Board of Directors of ALLEGHENY CASUALTY COMPANY at a meeting duly held on the 15th day of August, 2000:

"RESOLVED, that (1) the President, Vice President, or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto; bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto; such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY have each executed and attested these presents on this 12th day of March, 2012:



STATE OF NEW JERSEY  
County of Essex

ROBERT W. MINSTER  
Executive Vice President/Chief Operating Officer  
(International Fidelity Insurance Company)  
and President (Allegheny Casualty Company)

On this 12th day of March 2012, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.

IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.



A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Mar. 27, 2014

### CERTIFICATION

I, the undersigned officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of September, 2012

MARIA BRANCO, Assistant Secretary

# CONTRACTOR CERTIFICATION

---

## DRUG-FREE WORKPLACE

**PROJECT TITLE: SEWER AND WATER GROUP 788**

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;

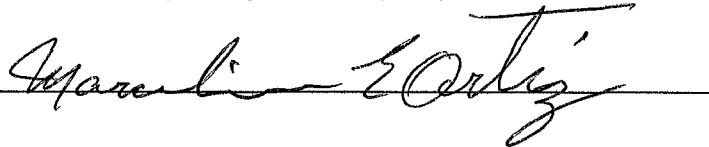
## **ORTIZ CORPORATION**

---

(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

MARCELINO E.ORTIZ

Title

PRESIDENT

## CONTRACTOR CERTIFICATION

---

### AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: SEWER AND WATER GROUP 788

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;

## **ORTIZ CORPORATION**

---

(Name under which business is conducted)

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

Signed \_\_\_\_\_

Printed Name MARCELINO E. ORTIZ

Title PRESIDENT

## CONTRACTOR CERTIFICATION

---

### CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

**PROJECT TITLE: SEWER AND WATER GROUP 788**

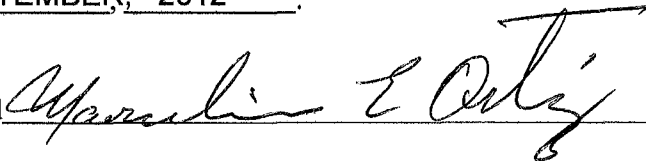
---

I declare under penalty of perjury that I am authorized to make this certification on behalf of ORTIZ CORPORATION, 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 11TH Day of SEPTEMBER, 2012.

Signed



Printed Name MARCELINO E. ORTIZ

Title PRESIDENT

**PHASE FUNDING SCHEDULE**

**BID NUMBER:**                     K-13-5371-DBB-3                    

**CONTRACT TITLE:**                     SEWER & WATER GROUP 788                    

**CONTRACTOR:**                     Ortiz Corporation                    

<b>Funding Phase</b>	<b>Phase Description</b>	<b>Phase Start</b>	<b>Phase Finish</b>	<b>Not-to Exceed Amount</b>
1	Project Submittals; Mobilization; Materials Procurement; Archaeological Monitoring; Implementation of Sewer Spill Response Plan; Implementation of Waste Water Diversion Plan; Traffic Control; Excavation, Sewer Main Removal & Sewer Main Abandonment; Installation of New 8" Sewer Main; Laterals; Clean-outs; Manhole Installation; 8" Sewer Pipe Bursting; 8" Sewer Rehab; Temporary Resurfacing and Final Trench Cap as Shown on Drawings 33342-01 through 33342-26-D	Notice To Proceed 1-02-13	January 2014	\$2,282,683.00
2	Archaeological Monitoring; Maintenance of Sewer Spill Response Plan; Maintenance of Waste Water Diversion Plan; Traffic Control; Excavation; Sewer Main Removal, & Sewer Main Abandonment; Installation of New 8" Sewer Main; Laterals; Clean-outs; Manhole; Installation of 8" and 12" Water Main; Services; Fire Hydrant Installation; 2" Air Vacuum Valve; 2" Blow Off Valve; Curb Ramps; Temporary Resurfacing; Permanent Resurfacing; 1-1/2" AC Overlay; Slurry Seal; Clean-up; Project Walk-thru; Punch list; Project Completion.	January 2013	Notice of Completion 6-24-14	\$1,396,321.70
<b>Total</b>		<b>\$ 3,679,004.70</b>		

**NOTES:**

- Section 9-3.7 **COMPENSATION UNDER EACH PHASE**, applies.

2. The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on the BID SCHEDULE.
3. The PHASE FUNDING SCHEDULE will be incorporated into the AGREEMENT and shall only be revised by a written modification to the AGREEMENT.

OWNER: CITY OF SAN DIEGO

By: *Byron Spiller*

Date: 9/20/2012

CONTRACTOR: Ortiz Corporation.

By: *Marcos E. Ortiz*

Date: 9-20-12

**PHASED FUNDING SCHEDULE AGREEMENT**

**Check one:**

- First Phased Funding Schedule Agreement
- Final Phased Funding Schedule Agreement

**NOTE: THIS IS A SAMPLE PHASED FUNDING SCHEDULE AGREEMENT FORM.** Particulars left blank in this sample, the total number of phases, and the amounts assigned to each phase will be filled with funding specific information as the result of the Pre-Award Schedule, and subsequent Schedules, required by these Bid Documents and approved by the City.

**BID NUMBER:** \_\_\_\_\_

**CONTRACT OR TASK TITLE:** \_\_\_\_\_

**CONTRACTOR:** \_\_\_\_\_

<b>Funding Phase</b>	<b>Phase Description</b>	<b>Phase Start</b>	<b>Phase Finish</b>	<b>Not-to-Exceed Amount</b>
1				\$
	<b><u>Additional phases to be added</u></b>			
	<b><u>to this form as necessary.</u></b>			
Total				\$

Notes:

- (1) City Supplement 9-3.6, "PHASED FUNDING COMPENSATION" applies.
- (2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- (3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by a written modification to the CONTRACT.

CITY OF SAN DIEGO

CONTRACTOR

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_  
Project Manager

Name: \_\_\_\_\_

Department Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**-END OF PHASED FUNDING SCHEDULE-**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

**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.

**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 EOCP 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.



**ADD: 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.

**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.

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

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

**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.

## 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.

**2-6 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.

**2-9.1 Permanent Survey Markers.** DELETE in its entirety and SUBSTITUTE with the following:

The Contractor shall notify the Engineer or the owner on a Private Contract, at least 7 days before starting the Work to allow for the preservation of survey monuments, and benchmarks. The Engineer or the owner on a Private Contract through its Licensed Land Surveyor or a Registered Civil Engineer, will, at its cost and in accordance with Business and Professions Code Section 8771, file a Corner Record or a Record of Survey referencing survey monuments subject to disturbance in the Office of the County Surveyor. The recording shall take place twice i.e., prior to the start of construction and prior to the Completion.

The Contractor shall not disturb or permanently cover survey monuments or benchmarks without the consent of the Engineer or the owner on a Private Contract. The Contractor shall bear the expense of uncovering and replacing any that may be disturbed or covered without permission. When a change is made in the finished elevation of the pavement of any roadway in which a street survey monument is located, the Contractor shall adjust the monument cover to the new grade within 7 days of finished paving unless otherwise specified in the Special Provisions. If a referenced monument is unable to be reset in its original location due to improvements, the Contractor shall establish the reset monument in a location approved by the Engineer.

Replacing and establishing survey references e.g., survey monuments and benchmarks shall be done only under the direction of the Engineer by a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California.

**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.

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

Other adjacent City project is scheduled for construction for the same time period in the project vicinity. See Appendix for approximate location. The Work shall be coordinated with the adjacent project as listed below:

- a) Water Group 925, Project Manager Mike Bajoua (619-533-4628)

**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.prismscompliance.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 (a) Labor,** City Supplement, 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.

**4-1.3.5 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:

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

- 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 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

**6-1.2 Commencement of Work.** To the GREENBOOK and the 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."

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 (i.e., 69 KV and higher).

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.

**6-1.4 Phased Funding.** To the City Supplement, ADD the following:

This contract is subject to Phased Funding.

**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.

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

- d) If weather condition is suitable, the Contractor shall complete each street segment within 15 Working Days from the day the slurry seal or asphalt overlay is placed. Each completed segment shall include other incidental Work items e.g., weed abatement, damaged asphalt pavement replacement, asphalt patching, resurfacing, striping, markings, raised pavement markers, and inlet markers.

**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
  2. DWT Construction
  3. LED signal modules
- d) 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)
- e) The Contractor shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
- f) 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.
- g) 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.



- h) 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.
- i) 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.
- j) 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.
- k) 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.

Failure to complete the liner installation and lateral reinstatement as specified in Part 5, "SYSTEM REHABILITATION," within the Contract Time will result in damages being sustained by the City.

## **SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR**

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

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

**7-3.2.3 Contractors Pollution Liability Insurance.**

- a) You must procure and maintain at your expense or require Subcontractor, as described below to procure and maintain, the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.

- b) All costs of defense must be outside the limits of the policy. Any such insurance provided by Subcontractor instead of you must be approved separately in writing by the City.
- c) For approval of a substitution of Subcontractor's insurance, you must certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible must not exceed \$25,000 per claim.
- d) Contractual liability must include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There must be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability.
- e) Occurrence based policies must be procured before the Work commences and must be maintained for the Contract Time. Claims Made policies must be procured before the Work commences, must be maintained for the Contract Time, and must include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies must continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
- f) Except as provided for under California law, the policy or policies must provide that the City is entitled to 30 days prior written notice (10 days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

**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.

**7-3.5.3 Contractors Pollution Liability Insurance Endorsements.**

**7-3.5.3.1 Additional Insured.**

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

- b) In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that is not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives must be limited to obligations permitted by California Insurance Code §11580.04.

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

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

**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.

**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:

Workers' Compensation	Statutory Employers Liability
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

- 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.

**7-8.6 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.

**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

**7-10.6 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.

## **SECTION 8 - FACILITIES FOR AGENCY PERSONNEL**

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

## **SECTION 9 – MEASUREMENT AND PAYMENT**

**9-3.2.2.1 Progress Payment for Pipelines.** To the City Supplement, 2<sup>nd</sup> paragraph, DELETE in its entirety and SUBSTITUTE with the following:

In asphalt-surfaced streets, 20% payment will be made for hydrostatic and bacterial testing, Wayneball and Mandrelling (where necessary), for water and sewer utility constructions respectively, and operational testing for storm drains, including the trench cap and cleanup.

**9-3.3.1 Payment for Stored Materials.** To the City Supplement, DELETE in its entirety.

**9-3.7 Compensation Adjustments for Price Index Fluctuations.** To the City Supplement, DELETE in its entirety

## **PART 2 - CONSTRUCTION MATERIALS**

### **SECTION 207 – PIPE**

**207-15.7 Installation Time Limit.** DELETE in its entirety and SUBSTITUTE with the following:

PVC Pipe, fittings and couplings shall comply to the requirements of 207-28, "Pipe Acceptance."



**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.

**207-17.4.2 Acceptance.** DELETE in its entirety.

**207-26 PIPE Appurtenances.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Valves shall have internal and external fusion bonded epoxy coating in accordance with AWWA C-116 and C-213.

Painting of exposed surface of valve well caps shall be in accordance with the “Gate Well Identification” Standard Drawing, for valves 4” (100mm) and larger.

Valve key extensions shall be installed for butterfly valves and gate valves when top of gate valve nut is 6’ or more below ground or pavement surface. Types of joints for fittings are called out on Plans. Valves used with PVC pipe shall have mechanical joint ends.

**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.

**207-26.3 Gate Valves.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Gate valves shall be resilient seated conforming to the provisions of AWWA C-509, unless metal seated are specified. Gate valves shall conform to AWWA C-500, as modified herein, except that valves 3” (75 mm) and under shall be all bronze; conforming to ASTM B62. Valves less than 16” shall be gate type, with a ductile iron body, unless otherwise specified.

Valves shall have bottom or side wedging double discs, parallel seats, all bronze internal working parts, either "O" rings or stuffing box stem seals, and two inch square operating nut. Valves shall open by turning the stem counter-clockwise. Ends shall be as specified, designed for use with the connecting pipe. Components made from brass or bronze shall be of a grade containing not more than 16% zinc and not more than 2 percent aluminum in accordance with 5.5 of the AWWA C-500 for waters with specific conductance exceeding 350 micro Mho per am.

Valves 16” (400 mm) and larger, if specified, shall be designed for horizontal mounting, with 4” by-passes and totally enclosed gear case. Integral or extended gear cases are acceptable.

External bolts and nuts for valve fittings shall be hexagonal head machine bolts and hexagonal nuts conforming to ASTM 307, Grade B or SAE Grade 2. Bolt threads shall be lubricated with graphite and oil prior to installation.

**207-26.4 Butterfly Valves.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Only resilient-seated butterfly valves are allowed. Valves 16” and larger shall be butterfly with a ductile iron body, unless otherwise specified. Butterfly valves and operators shall conform to AWWA C-504, "Standard for Rubber-Seated Butterfly Valves", as modified and supplemented herein.

Valves and operators shall be Class 150B, totally enclosed for direct burial in the ground without a vault. Valves and operators shall be designed for installation in a nearly horizontal pipeline with the disc shaft horizontal and the operating shaft vertical. Valves shall be either short body, or long body, with ends as specified. Flanged ends shall conform to AWWA C-207.

Butterfly valves greater than 16” shall have a by-pass installed by the contractor around them. The bypass shall be 4” for valves up 36”, and 6” for valves greater than 36”. The bypass shall include a gate valve, and it shall be the same size as the bypass.

The operator shall be manual traveling nut type with a 2” (50 mm) square operating nut conforming to AWWA C504, and shall open the valve when turned counter-clockwise. The operator shall have a mechanical stop, which will withstand an input torque of 450 ft lbs. (610 Newton-meter), against the stop. The traveling nut shall engage alignment grooves in the housing. The operator shall have a built in packing leak bypass to eliminate possible leakage into the operator housing.

The number of turns required to fully close the valve from a fully open position is shown in the table below for valve diameter 6” (150 mm) to 48” (1200 mm).

<u>Valve Diameter inch (mm)</u>	<u>Minimum Number of Turns to Close</u>
6 (150)	30 turns
8 (200)	30 turns
10 (250)	30 turns
12 (300)	30 turns
14 (350)	30 turns
16 (400)	30 turns
18 (450)	40 turns
20 (500)	40 turns
24 (600)	40 turns
30 (750)	44 turns
36 (900)	136 turns
42 (1050)	136 turns
48 (1200)	136 turns

The operator, and any other parts requiring lubrication, shall be fully lubricated at the factory and shall require no additional lubrication for the life of the valve. Seats shall be Peroxide Cure EPDM

The valve disc shall be of stainless steel or ductile iron. The metal seating surfaces which meet the rubber seat shall be of stainless steel.

Bolts and nuts for valve end flanges shall be hexagonal head bolts and hexagonal nuts conforming to ASTM 307, Grade B or SAE Grade 2. Bolt threads shall be lubricated with graphite or oil prior to installation.

Prior to the installation of working parts, all internal steel or cast iron surfaces of valves, except finish or bearing surfaces, shall be coated with approved epoxy in accordance with AWWA C-550, "Protective Interim Coatings for Valve and Hydrants." The interior epoxy surface shall be tested with an approved holiday detector.

**207-26.4.1 Class 250B Butterfly Valves.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

This subsection applies to 16" (400 mm) through 54" (1350 mm) Class 250B butterfly valves.

Butterfly valves shall conform to the requirements of AWWA C-504 for Class 250B service in terms of performance criteria. Class 250B Butterfly valves shall have flanged ends, be manually operated, tight closing, and have rubber seats made from Peroxide Cure EPDM. Valves shall be bubble-tight at the rated pressure with flow in either direction, and shall be satisfactory for applications involving throttling service and/or frequent operation after long periods of inactivity. Valves and valve operators shall be suitable for buried service. Valves and valve operators shall comply with these specifications, other accepted standards for butterfly valves, and the following enhancements and exceptions:

- a) Valve Bodies shall be short and constructed of ductile iron conforming to ASTM A536 Grade 65-45-12, unless cast iron conforming to ASTM A 126 Class B is specified. Flanges shall be flat-faced and flange drilling shall be in accordance with ANSI B16.1, Class 125 or Class 250, as specified on the plans. On valves 30" (750 mm) and larger the valve port diameter shall not reduce more than a 1.5" (37.5 mm) of nominal diameter. Flow direction shall be indicated on the valve body. The use of stops or lugs cast integrally with or mechanically secured to the body for limiting disc travel shall not be acceptable.
- b) Valve Disc shall have no external ribs transverse to the flow of water through the valve. The disc shall not have any hollow chambers that can entrap water. The disc shall be made from cast iron ASTM A126 Class B or ductile iron ASTM A536. The disc shall be furnished with a nickel-chrome or stainless steel type 316 seating edge to mate with the rubber seat.
- c) The Valve Seat shall be attached to the valve body. Retaining rings, clamps, screws and bolts attaching the rubber seat to the valve body shall be fabricated from stainless steel type 316. For valves 24" (600 mm) and larger, valve seats shall be field adjustable around the 360 degree circumference and replaceable without dismantling the operator, disc or shaft and without removing the valve from the pipeline. The valve manufacturer shall certify the rubber seat is field replaceable as specified above. Spool-type rubber liners covering the entire surface of the valve body and extending over any portion of the flange faces will not be acceptable. Valves employing the use of snap rings to retain the rubber seat will not be acceptable.
- d) Rubber for valve seats shall conform to the applicable provisions of AWWA C-504 and be Peroxide Cure EPDM.

- e) Valve shafts shall be stainless steel ASTM A564 Type 630 Condition H-1100.
- f) The valve/disc connection shall be made through the use of on-center taper pins. The taper pins shall be of the same material as the valve shaft.
- g) Shaft Seals shall be self-adjusting standard split V packing and be provided where the shaft Projects through the valve body. Packing shall be retained by the actuator or actuator mounting plate. Adjustable packing bonnets are not allowed. Shaft seals shall be of design allowing replacement without removing the valve shaft.
- h) Valve Bearings shall be sleeve type that is corrosion resistant and self-lubricating. Thrust bearings shall be provided in accordance with the governing standard. Thrust bearings, which are exposed to water and consist of a metal bearing surface in rubbing contact with an opposing metal bearing surface, shall not be acceptable.
- i) Valve Operator shall be fully grease packed and have stops in the open and closed position. The operator shall have a mechanical stop, which will withstand an input torque of 450 ft lbs. (610 Newton-meter), against the stop. The traveling nut shall engage alignment grooves in the housing. The operator shall have a built in packing leak bypass to eliminate possible leakage into the operator housing. The operator shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. The operator shall be sized to provide adequate torque to operate the valve on which it is mounted at the full pressure rating of the valve. Operators shall meet minimum requirements for AWWA C-504.
- j) Butterfly valves greater than 16” and larger shall have a by-pass installed by the contractor around them. The bypass shall be 4” for valves up 36”, and 6” for valves greater than 36”. The bypass shall include a gate valve, and it shall be the same size as the bypass.
- k) Valve Operator shall be mounted on the valve at the valve manufacturer's facility. The valve manufacturer shall insure proper operator sizing and satisfactorily test the operator and valve assembly prior to shipment to the Site.
- l) Valves shall be hydrostatic and leak tested. The leak test shall be performed in both directions at a differential pressure of 250 psi (1.7 Megapascal) with the disc in a closed position. In a slightly open position, internal hydrostatic pressure equal to 500 psi (3.45 Megapascal) shall be applied to the inside of the valve body for 5 minutes. Proof of a design cycle test in accordance with AWWA C-504 Section 5.2.4.3 shall be submitted before installation.

**207-26.5. Plug Valve.** To the City Supplement, DELETE in its entirety.

**ADD: 207-28 PVC PIPE ACCEPTANCE.** When the pipe is delivered to the Work site, the Engineer may require additional testing to determine conformance with the requirements of pipe flattening, impact pressure, pipe stiffness, and extrusion quality.

- 1. For All PVC Pipe (i.e., pressurized and gravity):
  - a) The Contractor shall provide information to the Engineer for verifying the quantity of pipe, the manufacturing and delivery date, and that the pipe stored is the same material documented on the Certificate of Compliance.

- b) The Contractor shall provide explanation of pipe marking to include manufacturing date and location.
  - c) If the pipe will not be installed within 6 months of manufacture date, the Contractor shall protect the pipe from environmental degradation (e.g., UV rays and sunlight) in accordance with the manufacturer's recommendations.
  - d) The Contractor shall insure that the PVC pipe is stored locally (i.e., within 25 mile radius) and that the Engineer has reasonable access to the pipe at the storage location.
  - e) The stored pipe shall not be removed from the storage for purposes other than the Project without the Engineer's approval.
  - f) PVC pipe handled and stored in accordance with these specifications will be acceptable for installation for up to 2 years from the date of manufacture without repeat testing.
  - g) The Engineer may process payment for store PVC pipe in accordance with 9-3.3.1, "Payment for Stored Materials" and 9-3.3.2, "Payment for Stored Materials off Site."
2. For PVC Pipe Older Than 6 Months:

For PVC pipe older than 6 months from date of manufacture as evidenced by pipe markings and the Certificate of Compliance that has not been stored and handled as outlined above:

- a) Prior to installation of PVC pipe, the Contractor shall submit to the Engineer a current (i.e., no older than 60 days) complete set of third party independent test results for each separate lot of pipe consisting of:
  - \*Flattening capability conforming to ASTM D2412
  - \*Extrusion quality by the acetone-immersion method as specified in ASTM D2152
- b) Test results shall identify the pipe by its markings as provided by the manufacturer.
- c) PVC pipe installation may not proceed prior to submittal of test results by the Contractor and written acceptance by the Engineer.
- d) PVC pipe tested as outlined above shall be accepted for installation for a maximum of 6 months from the date of testing unless it is stored and handled in accordance with these specifications immediately after testing.
- e) PVC pipe that is not stored locally (i.e., within 25 mile radius of the Site), or where the Engineer does not have reasonable access to verify storage and handling, shall be retested in accordance with these specifications within 60 days prior to installation per 207-15.7, "Installation Time Limit."
- f) After initial testing, PVC pipe handled and stored in accordance with these specifications may be accepted for installation for up to 2 years from date of manufacture without repeat testing.
- g) The Engineer may process payment for store PVC pipe in accordance with 9-3.3.1, "Payment for Stored Materials" and 9-3.3.2, "Payment for Stored Materials off Site."

## 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

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

**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, DELETE the second paragraph 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 303- CONCRETE AND MASONRY CONSTRUCTION

**303-5.10.2 Payment.** To the City Supplement, 2<sup>nd</sup> paragraph, DELETE in its entirety and SUBSTITUTE the following:

Additional concrete sidewalk and curb quantities *beyond the 15'-0"* will be paid for in accordance with the Contract unit price for additional curb and additional sidewalk.

## SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

**306-1.2.13 Installation of Plastic Pipe and Fittings.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

**306-1.2.13 Installation of Plastic Pipe and Fittings.** ADD the following:

A maximum of 1 deflection coupling may be used within a 20 foot distance unless approved otherwise by the Engineer.

When restraint joints are proposed to be used, thrust blocks shall be used in conjunction with the restraint joints.

The following installation requirements apply to the use of HDPE pipe:

- a) Pipe shall be installed where shown on the Plans in accordance with ASTM D2321, these specifications, and the manufacturer's specifications. In the case of a discrepancy, the more restrictive requirements shall govern.
- b) Pipe shall be laid in a trench excavated to the lines and grades established by the Engineer. The bottom of the trench shall be graded and prepared to provide a firm and uniform bearing throughout the entire length of the pipe.
- c) The minimum horizontal clearance shall be 5' as measured from the outside diameter-to-outside diameter.
- d) Pipe, pipe couplings, and accessories shall be unloaded, stockpiled, hauled, distributed, and otherwise handled in a manner which will prevent damage to the materials.
- e) Special care shall be taken to install pipe to exact grade and line. Pipe, when jointed, shall form a true line of flow. Any pipe that has a grade or joint disturbed after installation shall be removed and reinstalled.
- f) Pipe shall be installed with the separate sections joined firmly together, with outside laps of circumferential joints pointing upstream, and the center line of the invert coinciding with the specified alignment of the pipe.
- g) The interior surfaces of pipes shall be thoroughly cleaned of foreign matter before being lowered in the trenches and shall be kept clean during laying operations.
- h) Pipe shall be laid and jointed in accordance with generally accepted practice and the following provisions in order to be suitable for the purpose intended.
- i) Necessary facilities shall be provided for lowering and properly placing the sections of pipe in the trench.
- j) Pipe shall be laid to line and grade with the sections closely jointed.

- k) Every precaution shall be taken to prevent flooding the pipe trench before backfilling operations.
- l) The last two standard pipe sections at each opening shall be reinforced concrete pipe (RCP) installed in accordance with manufacturers' requirements. In the case of a discrepancy, the more restrictive requirements shall govern.
- m) New plastic pipe shall be connected to existing or new drainage facilities as shown on the Plans. When concrete collars or "tee" connections are required to connect new plastic pipe to existing or new pipe, the concrete collars or "tee" connections shall be constructed of minor concrete conforming to the provisions in Caltrans Standard Specifications, Section 90-10, "Minor Concrete." Reinforcement for the concrete collars or tees shall conform to the provisions in Caltrans Standard Specifications, Section 52, "Reinforcement."

**306-1.2.14 Thrust Blocks and Anchor Blocks.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

At least 10 Working Days prior to construction of thrust blocks and anchor blocks for 16" and larger water mains, the Contractor shall excavate via potholing and expose the soil to the depth of the proposed water main at locations approved by the Engineer. The Engineer will confirm the design when shown on the Plans or will provide the design details within 10 Working Days after the Engineer has observed the exposed Site.

If there are conflicts with adjacent utilities that prohibit the installation of the concrete blocks, the Contractor shall immediately notify the Engineer.

**306-1.4.8 Televising Sewer Mains and Storm Drains.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

**ADD: 306-1.4.8 Televising Sewer Mains, Sewer Laterals, and Storm Drains.**

**306-1.4.8.1 General.** The Contractor in coordination with the Engineer shall televise new sewer mains and storm drains, rehabilitated existing sewer mains when performing parallel replacement to locate existing laterals, and existing sewer pipe segments and laterals after the cleaning process and prior to commencing rehab work. The Contractor shall provide the video records with compressed audio in digital file format on digital video discs (DVD's).

**306-1.4.8.2 Submittals.** The Contractor shall make several submittals during construction as follows:

- a) The Contractor shall provide an initial submittal at the start of televising work demonstrating the typical video and audio quality to be provided for acceptance by the Engineer. This submittal shall note any proposed changes to the specification listed below regarding video format, data processing, compression or other conditions for review and approval by the Engineer.
- b) When televising existing mains proposed to be replaced, the Contractor shall provide the televising DVD(s) and a red-lined set of Plans showing the location of the existing laterals to the Engineer before constructing the new sewer mains. Service lateral video inspection shall be submitted on a separate DVD.



- c) Post Cleaning Videos prior to rehabilitation of mains - The Contractor shall televise the sewer pipe segments after the cleaning process has been completed and prior to commencing rehabilitation work. If point repairs are necessary, the Contractor shall identify the location of the proposed point repairs and submit the post cleaning video within 5 Working Days of completion of the segment cleaning and at least 5 Working Days prior to commencing the rehab work to obtain prior approval by the Engineer. The Engineer will review each video submittal within 10 Working Days of receiving submittal. Each video submittal shall be limited to 20 segments. The post cleaning video for the remainder of the mainline segments shall be submitted in accordance with 2-5.3, "Submittals."
- d) Post Cleaning Videos for rehabilitated laterals or lateral launch videos - The Contractor shall televise the lateral segments after the cleaning process has been completed and prior to commencing any work on laterals. The post cleaning video for service lateral launch shall be submitted within 5 Working Days of segment cleaning. The Engineer will review each video submittal within 10 Working Days of receiving each submittal. Each DVD submittal shall be limited to 20 segments. The video inspection shall include inspection of service lateral a minimum of 30' in length from the mainline or up to the property line unless an obstruction is encountered.
- e) If the property line clean-outs are not known to exist, service lateral video may be obtained with camera equipment designed to launch into the service lateral from the mainline or access from the private property with homeowner's permission. Each service lateral shall be identified by the Facility Sequence Number (FSN) of the mainline (when FSN are included in the Contract Documents) and the address of the property which it serves. Failure to comply with these specifications may result in one or more of the following:
  - i. A delay of the review and approval of the submittal(s).
  - ii. Delay in progress payments.
  - iii. Require the Contractor to re-televise the pipelines at no cost to the City.
- f) Final Televising, Post-Rehabilitation Videos and Red-lines – New sewer mains shall be inspected by CCTV and recorded on DVD not less than 22 working days after completion of permanent trench restoration and finished grading, but prior to final resurfacing. The Contractor shall review the DVD for any discrepancies or deficiencies in the installation of the pipe or liner. The Contractor shall notify the Engineer at least 30 Working Days in advance of the anticipated date that Acceptance will be requested. If the specified advance notice is not given, Acceptance and bond release may be delayed.
- g) Ten Working Days shall be allowed for the Engineer to review each individual video disc of each and every reach documented on that particular videodisc. In the event that any deficiencies are discovered by the Engineer or City, either by the Contractor's televising or the City's re-televising, 5 Working Days shall be allowed for City to judge whether the deficiencies or sags are repairable, in place. If the judgment is made that the deficiencies are non-repairable in place, the affected portion(s) shall be reconstructed at no cost to the City. The Contractor shall not be entitled to Contract Time extension due to delays resulting from correcting deficiencies or sags as determined by televised inspections.
  - i. The City reserves the right to re-televise any new sewer main after the placement of permanent trench restoration and before final acceptance to determine the existence and extent of any foreign material or obstructions such as cement grout, wood, rocks, sand, concrete, or pipe fragments, and any structural deficiencies, or sags precipitated by the permanent trench restoration operations or other items of Work.

Post-rehabilitation videos shall be submitted within 30 days of completion of the Work. The final video recording shall clearly show the condition of the liner with ends sealed at the manholes, service lateral and connection seals. The submittal of this final video recording shall also include MS Access database and marked up Field Book pages or Plans as attachments. Failure to deliver the submittal(s) within the time identified or if a total of more than 20 segments are submitted in a single video may result in one or more of the following:

1. A delay of the review and approval of the submittal(s).
2. Delay in progress payments.
3. Require the Contractor to re-televising the sewer main segments.

**306-1.4.8.3 Video Operator Qualifications.** The video operator shall have at least 1 year of experience with a project of a similar nature within the last 3 years.

**306-1.4.8.4 Equipment for Televising.** Camera and lighting quality shall be suitable to provide a clear, continuously in-focus picture of the entire inside periphery of the sewer pipe or storm drain for all conditions encountered during the work. The equipment shall be capable of televising the entire length from manhole to manhole in one direction. When televising storm drains/sewer mains the camera shall be capable of scanning the joints for 360 degrees.

If necessary, the Contractor shall provide a self-propelled camera, capable of extended videotaping lengths and operation in remotely accessed areas without direct vehicular access. The system used to move the camera through the pipe shall not obstruct the camera's view. The remote-reading footage counter device which measures the distance traveled by the camera in the pipe shall be displayed on the television monitor and shall be accurate to plus or minus 1' (0.3 meters) in 1000' (300 meters) (+0.3m:300 meters). The Contractor shall calibrate the measuring device each day with a known distance to the satisfaction of the Engineer prior to starting the inspection and videotaping process.

**306-1.4.8.5 Televising Procedures.**

- a) The Engineer shall be notified a minimum of 2 Working Days in advance of televising. The entire televising inspection process shall be done in the presence of the Engineer.
- b) The Contractor shall clean the sewer mains prior to televising as necessary to adequately perform the video recording operations.
- c) The camera shall be moved through the sewer at a uniform rate, stopping when necessary to ensure proper documentation of the condition of the sewer line but in no case shall the television camera be pulled at a speed greater than 30' (9 meter) per minute. The camera shall be moved by means of power cable winches or self propelled tractors at each manhole, and rotating the camera head at each lateral connection, defect, or both to allow for adequate evaluation. The importance of accurate distance measurements is emphasized. Measurement for location of defects shall be above ground by means of a measuring device. Footages shown on the DVD(s) shall coincide with horizontal lengths from stationing as shown on the plans. Footage measurements shall begin at the centerline of the upstream manhole or storm drain access point, unless permission is given by the Engineer to do otherwise. Both pre and post video inspections shall be submitted to the Engineer.

- d) Televising shall be done in one direction for the entire length between manholes. Each section shall be isolated from the remainder of the storm drain or sewer line with the upstream sewage flow bypassed as required. Sufficient water shall be supplied to the isolated section to cause drainage reaching the downstream manhole prior to televising. If existing flows are high, pre-construction video inspection can be done with partial flow. Depth of the flow shall not exceed:
  - i. 6" - 10"(150 mm. - 250 mm) pipes - 20% of the pipe diameter.
  - ii. 12" - 24" (0.3 meters - 0.6 meters) pipes - 25% of the pipe diameter.
  - iii. 27" (0.7 meters) and up pipe - 30% of the pipe diameter.
- e) The Contractor shall televise the pipeline with maximum flow diverted from the pipeline. In the event that the existing flow is interfering with the video operation, a bypass shall be performed by the Contractor to lower the flow volume sufficiently to allow for a clear video picture.
- f) Obstructions may be encountered during the course of the internal inspection that prevents the travel of the camera. If an obstruction is not passable, the Contractor shall withdraw the equipment and begin internal inspection from the opposite end of the sewer reach. Should an additional obstruction be encountered after employment of the equipment from the opposite end of the sewer and no means are available for moving the television camera past the obstruction, the Contractor shall notify the Engineer, and the inspection shall be cancelled or postponed until the obstruction is removed. The Contractor shall remove the obstruction by excavation, repair or any other means approved by the Engineer, at no additional cost to the City.

After the obstruction has been removed, the Contractor shall continue with the CCTV inspection. A reverse setup, if necessary, shall be performed by the Contractor at no additional cost to the City. Should the camera get stuck in the sewer, the Contractor shall be responsible for all costs involved in extracting it. Costs related to difficulties encountered during internal television inspection are incidental to the Contract and claims, therefore, will not be considered.

- g) Defects such as offset joints, cracks in the pipe, and inflow shall be pointed out, quantified verbally, and projected on CCTV video disc. The Contractor shall use the standard owner's video disc introduction, abbreviations, log sheet forms, and severity code with legend when recording the line segment information. The Contractor shall notify the Engineer of any additional damage found and obtain prior approval from the Engineer for additional point repairs.
- h) Original DVD shall be submitted to and shall become the property of the City. DVD's will be reviewed by the Engineer for focus, lighting, sound, clarity of view, and technical quality. Videos recorded while a camera has flipped over in the process of traveling and the viewing of laterals, obstructions or defects that are blocked by cables, skids or other equipment will not be accepted. Sharp focus, proper lighting, and clear distortion-free viewing during the camera operations shall be maintained. Failure to maintain these conditions will result in the rejection of the video disc by the Engineer. Video recordings, if unacceptable to the Engineer, shall be repeated at no additional cost to the City.

- i) The City reserves the right to re-televisé any reach of the pipeline following the cleaning, pipe installation and rehabilitation activities, but before Acceptance, to determine the existence and extent of any foreign material or obstructions such as cement grout, wood, rocks, sand, concrete, or pieces of pipe, and any structural deficiencies, or sags preventing the completion of the Work.
- j) Final CCTV. The Contractor shall clean the line with high pressure water jetting equipment and a sewer ball prior to performing mandrel, air test or both, or as specified by the Engineer. For the final video inspection, the City will require a dry pipe. During the post-video inspection, the camera shall stop at each lateral connection, focus on the bottom of the opening and then make one slow clockwise observation around the perimeter of the lateral which clearly shows the quality of the connection. If the Contractor fails to properly show and document any of the lateral openings, the Contractor will be required to re-televisé that section of pipeline at no additional cost to the City.
- k) The Contractor shall not be entitled to any additional contract time due to delays resulting from the need to correct any deficiencies, either repairable or non-repairable, in place, as determined by televised inspections.

**306-1.4.8.6 DVD and Final Report Requirements.** The Contractor shall provide all video with audio in digital file format on DVD's. Audio and written documentation shall accompany all DVD(s) submitted to the Engineer.

- a) DVD Requirements
  - i. One file shall be provided for each manhole to manhole pipe segment or for each manhole to manhole inspection video.
  - ii. The filename shall incorporate the unique facility identifier provided by the City and the date of the inspection. The facility identifier numbers will be manhole numbers, with adjacent manhole numbers identifying pipe sections. The facility identifier number(s) shall be compatible with the data input features of the reporting software i.e., number of available input digits, fields, or both.
  - iii. DVD recordings shall be in color and in MPEG2 format. The minimum video bit rate shall be 4.7 Mega bits per second (Mbps) and minimum audio bit rate shall be 128 Kilo bits per second (Kbps). Out-of-focus video recording or low quality and blurred pictures due to steam or smudged camera lens, or portions thereof, shall be cause for rejection of the video recording.
  - iv. The camera source image capture shall provide a high resolution image with a minimum of 640x480 pixels capture. The video shall be at 30 frames per second.
  - v. The video will be captured and compressed so as to reduce file size as much as possible while still meeting the needs of the City. The compression shall be in accordance with MPEG2 format. The video files shall be highly compressed, resulting in an anticipated average file size of maximum 10 MB per minute of video.
  - vi. The compression shall not significantly degrade the still frame quality of the video or audio signal from the original source video, as judged in a side by side viewing under normal viewing conditions.

- vii. During post-installation CCTV inspections, the Contractor shall utilize one of the following video camera systems: a rotating-lens camera (articulating head) or a pan and tilt camera.
- viii. The Contractor shall use a dual recording system and submit post video inspection discs to the inspector, subsequent to recording.
- ix. The Contractor shall ensure visibility and lighting with minimum glare and without any dark or shadowy regions appearing on the final video disc.
- x. The Contractor shall pan and tilt the camera and pause for at least 15 seconds at each lateral connection to adequately show and document that the saddle has been installed properly for new installations and that the lateral opening has been reestablished for rehabilitation and lining in accordance with 500.1.1.7.a, "Miscellaneous."
- xi. The television camera shall produce a continuously-monitored high-quality picture, capable of discerning all major and minor structural defects in the pipeline. The post-installation CCTV inspection will document all defects which may affect the integrity or the strength of the pipeline, such as cracks, roughness, fins, or folds. The Contractor shall repair or replace all defects, at no additional cost to the City, which in the opinion of the Engineer may affect the hydraulic condition of the pipe liner.
- xii. Each DVD submittal shall include the following:

Visuals

1. Adequate view of the upstream and downstream manholes or storm drain access points. The direction of the survey upstream or downstream.
2. A pause at and zoom in on the lateral connections for at least 15 seconds for identification of the condition of the connection.
3. A pause at and zoom in on the identified defects sufficient for identification of the type of problem.
4. Identified fault conditions or defects, see Appendix, when included in the Contract Documents, for Standardized City Condition and Defect Codes.
5. Each pipe section shall be identified by FSN, manhole numbers and the street name. If shown on the Plans, station numbers and sheet numbers shall also be identified.
6. A continuous read-out of the camera distance from the starting manhole to the end point at all times.
7. Pipe size.
8. Pipe or liner material, see Appendix, when included in the Contract Documents, for Material Description and Code.

### Audio

1. Date of CCTV inspection.
2. Confirmation of each section to be CCTV inspected i.e., narrative of manholes, storm access points or station numbers, or FSN's and direction upstream or downstream.
3. Description of pipe size lined on post and final videos, material liner type for post and final videos and pipe joint length.
4. Description and location of each defect.
5. Description and location of each service connection.
6. Include brief but informative comments on data of significance, including, but not limited to, the locations of unusual conditions, type and size of connection, collapsed section, the presence of scale and corrosion, and other discernible features.

### Written Documentation

1. Date of CCTV inspection.
2. Printed labels on DVD number, location information, date of inspection, and other descriptive information.
3. Location, size, material, and length of pipe.
4. Direction of flow and measurement "From" manhole or storm drain access point or station number "To" manhole or storm drain access point or station number or FSN.
5. File numbers itemizing individual segments.
6. Sketch showing the street and cross streets where the CCTV inspection was made.
7. Description and location of each defect or deficiency and a list of all proposed repairs.
8. Description and location of each connection.
9. A menu which lists files for each pipe section to be inspected and the date of the inspection.

b) Final CCTV inspection reports

- i. The Contractor shall provide reports of final inspection results of pipeline televising and conditional assessments utilizing a MS Access database reporting software.

- ii. This information shall be in tabular form, and include but not be limited to the following information: pipeline run from upstream to downstream manhole, location of defects in feet from upstream manhole, description of the defect, and other pertinent information. The reports shall also show all service lateral connection locations. The inspection reports shall incorporate and utilize a standardized City's rating system to be provided for comprehensive evaluation of pipeline, manhole condition, or both, i.e., a standardized listing of facility condition and defect codes. Pipe condition and fault information tied to pipe location shall also be recorded in the Report.
- iii. The file naming convention for video files consists of 32 characters, including the extension. The structure includes the following: "(field book page start)-(manhole ID start)-(field book page end)-(manhole ID end)-(hhddmmyy).wmv" where the field book pages and manholes IDs are 4 characters in length and hhddmmyy signifies the hour, day, month and year of the inspection, respectively. An example filename may be "F18S-0045-F18S-0046-14150604.wmv".
- iv. See Appendix, when included in the Contract Documents, for televising inspection pipe database structure, table formats and standardized city condition, defect codes and digital video filename. Final reports shall follow these requirements.

#### **306-1.4.8.7 Tolerances.**

- a) For underground sewer or storm drain conduit installations, the maximum operational tolerance for sag shall be 1/2". When televised inspection is used to check for sag, a calibrated 1/4" diameter steel bar, mounted in front of the camera, shall be used to measure the depth of sag.
- b) For rehab work, tolerances shall be in accordance with 500-1.4.9, "DEFECT TOLERANCES".
- c) If the Engineer determines that the deficiencies or sags are non-repairable in place, the affected portion(s) shall be reconstructed in accordance with 6-8, "COMPLETION, ACCEPTANCE, AND WARRANTY."

**306-1.4.8.8 Payment.** The payment for cleaning and televising sewer mains or laterals and storm drains shall be included in the unit price Bid items for cleaning and televising sewer mains and storm drains, televising sewer mains for final acceptance, or lateral launch videos. If a Bid item has not been provided, the payment shall be included in the payment for the proposed pipe.

**306-1.6 Basis of Payment for Open Trench Installations.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

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 subsurface investigations e.g., 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 and disposal of existing Fire Hydrant, including lead abatement, 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, 2<sup>nd</sup> 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.

**306-5.1 Removal and Abandonment of Existing Water Facilities.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

**ADD: 306-5.1 Removal and Abandonment of Existing Water Facilities.** Existing facilities shall be abandoned unless indicated otherwise on the Plans or in the Specifications for removal. Any gate valve to be removed shall be removed entirely, together with the valve casing and cover. Any gate valve to be abandoned shall be abandoned in place by removing the cover and casing to subgrade, filling the remaining valve casing with sand, and restoring the pavement. Gate valves abandoned prior to construction, with a lid and casing found within the Project limits, shall be properly abandoned as stated above and paid for as Extra Work, as approved by the Engineer.



Any existing fire hydrant scheduled to be abandoned or replaced shall be removed taking care not to damage, abrade, torch cut, or chip the existing fire hydrant paint as it is assumed to be lead-based paint unless rebuttal evidence generated by a CA Lead Certified Inspector/Assessor is provide. If the fire hydrant removal process requires the disturbance of the paint coatings, Contractor shall provide a lead work plan and shall not begin work until it is returned as approved.

The fire hydrant is to be removed from the jobsite on the same day it is unbolted from the spool, wrapped to contain any possible lead, and placed in an appropriate secure container until it can be taken to a pre-approved recycling facility. The recycling facility shall be identified during the pre-construction meeting as certified to accept materials with potential lead paint along with evidence it has the appropriate EPA and DTSC permits. Contractor shall also provide evidence in their submittals that they are in compliance with CAL-OSHA regulations 8 CCR 1532.1 related to worker exposure to lead. Any paint that is dislodged through process of removing a fire hydrant shall be cleaned up immediately and disposed of as hazardous waste unless a waste characterization identifies it does not meet the hazardous waste definition.

Fire hydrant services to be abandoned shall be blind flange or cut and plugged at least 12" below finished grade or below the top of curb, whichever is lower.

Where portions of the old main, services, or both are abandoned and left in place, the exposed ends of the abandoned main shall be tightly plugged with concrete and service ends shall be crimped, unless otherwise shown on the plans. Abandoned water services shall be located and shut off at the main.

Existing meter boxes previously abandoned within the Project limits shall be removed as specified here and paid for as Extra Work.

Voids resulting from abandoned or removed water services and meter boxes shall be filled with suitable material compacted to a relative compaction of 90% and concrete capped. For 16" and larger water main, the abandoned pipe shall be filled with sand or CLSM.

Salvaged material from the abandoned water mains and its appurtenances shall become the property of the Contractor at the time of its removal from the trench, unless otherwise specified or shown on the drawings. Such material shall not be allowed to accumulate along the line of work, but shall be removed from the area at the earliest practical time.

**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."

**306-14.2.1 General.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

The trenchless method for the installation of water services may be used when noted on the Plans or approved by the Engineer.

## **PART 5 - SYSTEM REHABILITATION**

### **SECTION 500 – PIPELINE**

**500-1.1.1.1 Design Criteria and Testing Requirements.** To the City Supplement, 1<sup>st</sup> paragraph, 2<sup>nd</sup> sentence, DELETE in its entirety and SUBSTITUTE with the following:

The thickness installed shall be increased as necessary to accommodate the existing conditions revealed in the television inspection required in 306-1.4.8, "Televising Sewer Mains, Sewer Laterals and Storm drains" that will result in the minimum thickness specified at all locations along the rehabilitated pipe.

**500-1.1.2.1 Pre-award Submittals.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Within 5 Working Days of the Bid Opening, the 3 Apparent Low Bidders shall submit the following required information:

- a) Contractor's Experience and Past Project Documentation - The selected Contractor shall submit documentation that a minimum of 0.06 miles, of sewer main rehabilitation similar in scope, has been successfully installed within the last 10 years in the U.S. with 5 years or more of documented performance record for the proposed product, and has been successfully performed by the Contractor and its personnel assigned to the liner installation and curing, utilizing the Contractor's proposed rehabilitation system for this project. The required format for this submittal has been attached to this contract. The Contractor shall identify the employees i.e., project manager, superintendent, foreman, etc.; who will be assigned to this project and provide references in the format presented in the Contract Documents. The Contractor's superintendent shall be assigned full time to this project and be present at the Site while work is being performed. Should CIPP be utilized, the documentation of the experience shall include the proposed resin and felt combination used and the installation of the proposed lateral sealing system with the pipe lining system.
- b) Manufacturer Certification – The Contractor shall submit manufacturer's certificate(s) within the last 10 years, indicating that the supplied lining materials for sewer mains and sewer lateral connections meet the requirements of these specifications and a certificate of compliance from an independent third party lab that the proposed lining materials meet the chemical resistance requirements of 210-2, "PLASTIC LINER." The creep reduction factor used for the long term flexural modulus calculation shall be verified by testing per ASTM D2990 in the certification.
- c) Authorized Installer - The installation of the sewer lining and lining of the service connections shall be performed by a contractor authorized, certified, or both by the manufacture or owner of the process. The Contractor shall submit a copy of the authorization from all manufacturers for which they are authorized, certified, or both and a letter from the manufacturer(s) stating the name, address, point of contact, and telephone number for City's verification.

**500-1.1.2.3 Submittals During Construction.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

The Contractor shall submit the following during construction:

- a) Daily reports with Required Attachments - Daily reports shall be submitted on a daily basis throughout construction. The daily report shall include the wet-out data sheet, boiler operator cooking worksheet, and temperature strip charts.
- b) Post Cleaning Videos (for sewer pipe segments and service lateral launch), Post-Rehabilitation Videos (Final Videos) and Red-lines Videos and red-lines shall be submitted in accordance with 306-1.4.8, "Televising Sewer Mains, Sewer Laterals and Storm Drains"
- c) Samples - Required samples shall be submitted to the Engineer immediately following the lining operation, according to Table A of 500-1.1.6, "Sampling, Testing, and Installation."

**500-1.1.5 Television Inspection.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Closed Circuit television (CCTV) inspection will be required prior to rehabilitation to document the condition of the host pipeline or lateral and to verify that it was cleaned. A post-installation CCTV inspection shall be performed to determine if the work was completed per the Contract Documents and that all service connections have been re-instated, as required. CCTV inspection shall be performed in accordance with 306-1.4.8, "Televising Sewer Mains, Sewer Laterals and Storm Drains."

**500-1.1.9 Measurement and Payment.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

1<sup>st</sup> and 2<sup>nd</sup> paragraphs, DELETE in their entirety and SUBSTITUTE with the following:

Unless otherwise noted, no separate compensation will be paid for testing; the testing costs shall be included in the price per linear foot of pipe rehabilitation.

The unit price for rehabilitating the sewer main in the manner described shall be for the length of the liner installed in the field and shall be measured between the manholes from the wall, next to the insertion invert, to the invert wall of the downstream manhole, unless the Contractor lines thru the manhole at the City's request. Payment for the liner shall also include the cost of end seals and the reestablishment of active service connections by a remote control device per section 500-1.4.7, "Service Connections and End Seal." Television inspection after rehabilitation shall be performed in accordance with 306-1.4.8, "Televising Sewer Mains, Sewer Laterals and Storm Drains". As-built information and all other relevant submittals shall be considered incidental to the Project for payment purposes

The Contractor shall be responsible for making adequate and suitable arrangements for any bypass pumping that may become necessary to prevent any backflow onto private or public property, between the time the liner is inserted, and the service re-connections have been made, tested, and approved by the City. Unless provided for, bypass pumping shall be incidental to the cost of the sewer rehabilitation.

**500-1.1.10 Sewer Main Rehab Identification.** To the City Supplement, 1<sup>st</sup> sentence, DELETE in its entirety and SUBSTITUTE with the following:

Whenever pipe(s) is(are) lined upstream, downstream, or both, a 3" x 8" reflective yellow delineator as manufactured by 3M Scotchlite Brand 3200 Series or approved equal shall be mounted on the manhole walls, above the inlet and outlet which were lined, and 36" below the manhole cover as part of the Work.

**500-1.13.6 Installation and Field Inspection.** To the City Supplement, 2<sup>nd</sup> paragraph, DELETE in its entirety and SUBSTITUTE with the following:

The existing pipeline shall be cleaned of any obstructions and televised in accordance with 500-1.1.4, "Cleaning and Preliminary Inspection" and 306-1.4.8, "Televising Sewer Mains, Sewer Laterals and Storm Drains". Existing live service connections shall be precisely located longitudinally, radially and in accordance with 500-1.1.7(a), "Miscellaneous" and 500-1.4.7, "Service Connections" and logged for subsequent reinstatement following insertion of the PVC strip pipe liner.

**500-1.13.9 Material Testing.** To the City Supplement, DELETE the last sentence in its entirety.

## PART 7 – WATER WORKS

### SECTION 700 – WORK INVOLVING THE CITY FORCES.

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

#### 700-1 CITY FORCE WORK.

##### 700-1.1 General.

- a) This subsection covers items of Work that involve coordination with and the services provided by the City Forces. The Contractor shall provide those services that are typically provided by the City Forces, in accordance with the applicable Specifications here if:
  1. additive alternates are awarded, or
  2. those services are shown on the Plans or in the Bridging Documents.
- b) The City Forces or the Contractor will be responsible for providing the residents with water service, by means of high-lining (i.e., temporary above ground supply lines), during construction as shown on the Plans.
- c) Only City Forces will isolate the water system, and perform all shutdowns by closing valves on water mains. Trial shutdowns will be performed by the City at all shutdown locations.
- d) The City's Public Utilities Department, (619) 527-7423, shall be notified by the Contractor 20 Working Days prior to beginning of Work that involves high-lining, cutting and plugging of, or making connection to the exiting water mains. The beginning of the Work shall be scheduled at the pre-construction meeting. The City is responsible for cost of the City Forces work. The Engineer will coordinate all interactions between the Contractor and the City Water Operations Division, the City Water Quality Laboratory, and other City organizations.
- e) The Work shall be done in accordance with the applicable AWWA standards and State Department of Public Health codes.
- f) The Contractor shall reconnect existing fire services and fire hydrants, after the acceptance of the new water main. The Contractor shall re-energize fire services and shall coordinate the Work with the property owner(s). The Contractor shall reconnect water services to the meters.

##### 700-1.2 High-lining.

###### 700-1.2.1 High-lining by the City Forces.

**700-1.2.1.1 Furnishing Materials.** If required in the Contract Documents and a separate Bid item is provided for Contractor furnished materials for City Force's highline work, the Contractor shall furnish the necessary materials for the City Forces' highline work as shown on the Plans to the City. The Contractor shall coordinate closely with the City Forces for the delivery of materials. The delivery location for furnished materials shall be determined by the City Forces. No materials shall be delivered to the City until the City Forces are ready to construct their work. **Unless otherwise specified in the Contract Documents**, the City will retain the high-lining materials at the end of construction if the City performs the high-lining.

**700-1.2.1.2 High-Lining Removed by the Contractor.** If the City Forces are not available to remove the high-lining materials, the Engineer will direct the Contractor to pickup and deliver all the City high-lining materials to Water Operations Division at: Chollas Station, 2797 Caminito Chollas, San Diego, CA 92105.

The City's Water Utilities coordinator, (619) 527-7423, shall be contacted by the Contractor 5 Working Days before delivery of the high-lining material. After removal of high-lining materials, the Contractor shall repair all trenches created for the installation of the high-line and remove all excess temporary resurfacing materials. No high-lining materials shall be removed until the City Forces have disconnected the high-line from the water system.

**700-1.2.1.3 Payment.** The payment for the furnished material for the City Force high-line work shall cover materials (i.e., fittings, valves, and hardware) including delivery and unloading. The Contractor will be paid under the Bid item for "Contractor Furnished Materials for the City Forces High-line Work."

If the Contractor requests the City Forces to high-line in excess of what is shown on the Plans, those costs for high-lining will be borne by the Contractor and billed to the Contractor. Costs will be billed at the current hourly rates (loaded) according to the schedule available for the Public Utilities Department.

If high-lining by Contractor is awarded under "Additive Alternate," payment for high-lining removed by Contractor shall be included in the unit price bid for "High-lining by the Contractor". Otherwise, if the City Forces install the high-line system and the Contractor is requested to remove the high-lining and deliver at the City designated location, payment shall be in accordance with the unit price bid for "High-lining Removed by Contractor" in the base Bid.

**700-1.2.2 High-lining by the Contractor.** When required, the Contractor shall bypass sections of the existing water main line with a temporary above-ground supply line (high-line) as shown on the Plans and in phases shown on the Schedule.

- a) The Contractor shall furnish all high-line materials.
- b) The Contractor shall provide the Engineer a schedule for the high-line work at least 20 working days prior to work required by the City Forces (e.g., connections or disconnects).
- c) Contractor shall phase the Project such that all structures in the area are within 1,000 feet of an active fire hydrant, measured using streets, private roads, or other routes driven by emergency vehicles. Phases are required so that the high-line provides sufficient water pressure to affected properties.
- d) The Work includes shutoff valves at intersections to isolate sections of the high-line if there is a leak or break to minimize the water service shutdowns.
- e) The high-line system shall have a dual feed and provide continuous full service to connected water services until the new water main line is installed and in operation. The Work shall be coordinated, scheduled, and performed to minimize disruption of water services during installation and removal of the high-line system.
- f) The Contractor shall flush, disinfect, and leak test the high-line in accordance with the applicable codes and regulations prior to connection work beginning.

- g) The Contractor will perform connections to high-lining system and disconnects to meters and fire hydrants, after the City has verified the high-lining system has passed bacteriological testing.

Bacteriological sampling and testing will be performed by the City Water Quality Laboratory.

- h) The Contractor shall ensure proper installation, pressure control, or operation of the high-line to avoid damage to water users' property and related public health and safety issues.
- i) The Contractor shall transfer the new fire services and water services to the meter after the new mains have been accepted. While making the transfers the Contractor shall, once service is interrupted, diligently pursue the required work until service has been fully restored.
- j) The Contractor shall notify the Engineer 5 Working Days prior to any work that will affect water service. The Contractor shall prepare and distribute, after approval by the City, written notification 3 Working Days prior to starting Work on any water main that will affect service. This notification shall be delivered door-to-door to water users in the affected area. A copy shall be delivered to the Engineer on the date of user notification.

For each service connection, the Contractor shall also notify the customer immediately prior to beginning work which will interrupt service and will again notify the customer immediately after the service is restored.

The Contractor shall notify all consumers with fire services 20 Working Days in advance of any shutdown.

- k) The Contractor shall dismantle and remove the high-line system from the Site, and restore streets, gutters, fire hydrants, and other disturbed facilities and surface improvements within 5 Working Days from the time the reconnections are completed.
- l) Parallel mains, fire services and water services which are not high-lined shall be connected to the meter by the Contractor only after the adjacent sections of the new main have been fully constructed, hydrostatic and chlorine residual tested, and certified acceptable by the Public Utilities Department.
- m) Cleanliness of the main shall not be compromised; otherwise, the Engineer will decide whether re-disinfection is required at the Contractor's expense.

Services shall be thoroughly flushed by the Contractor prior to restoration of water supply to customer's premises.

**700-1.2.2.1 Reference Specifications, Codes, and Standards.** Reference specifications, codes, and standards shall be the latest unless a specific code issue date, edition, or adoption date is specified.

- a) The Work shall be in accordance with the applicable parts of the following codes and safety regulations:
  - i. Uniform Fire Code.
  - ii. Uniform Mechanical Code.

- iii. Uniform Plumbing Code.
  - iv. City of San Diego Water and Municipal Sewer Approved Materials List, where applicable.
  - v. State Department of Public Health (previously known as DHS), Office of Drinking Water publication titled, "Approved for Service Isolation in California Public Water Systems."
  - vi. Applicable the City, local, state, and federal codes and regulations.
- b) The Work shall be in accordance with the following commercial and industrial standards:
- i. ANSI/AWWA C606 - Grooved and Shouldered Pipe Joints.
  - ii. ASTM A53 - Specification for Pipe, Steel, Black and Hot-Dipped Zinc Coated, Welded and Seamless.
  - iii. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
  - iv. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dipped) on Iron and Steel Hardware
  - v. ASTM A307 - Specification for Carbon Steel Bolts and Studs, 6,000 PSI Tensile Strength.
  - vi. ASTM A395 & 536 - Specification for Snap-Joint Coupling grade 65 45-15 and grade 64-45-12 coating orange enamel.
  - vii. AWWA C511 - Standard for Reduced Pressure Principle Backflow Prevention Assembly.
  - viii. AWWA C651 - Disinfecting Water Mains

**700-1.2.2.2 Submittals.** Prior to the start of the Work, the Contractor shall submit the following in accordance with 2-5.3, "Submittals:"

- a) Itemized list of high-lining materials to be used, including information on:
  - i. which parts are new and which have been used before and,
  - ii. verification that used parts have only been used to convey potable water.
- b) Catalog data for all high-lining materials and components required.
- c) High-line system installation and detail drawings (i.e., shop and working drawings) prior to ordering or purchasing material.
- d) High-lining schedule prior to ordering or purchasing material of any part of the high-lining system.



- e) Traffic control drawings to Traffic Control Section and shall obtain a permit a minimum of 2 Working Days (5 Working Days when the work affects a traffic signal) prior to ordering or purchasing material of each phase of the high-lining system.

**700-1.2.2.3 Quality Assurance.** The high-lining system shall be flushed, tested for leaks, and disinfected in accordance with 700-1.2.2.7, “Start-Up Procedures” and shall pass the specified bacteriological tests prior to connection.

**700-1.2.2.4 Materials.** Materials may have been used previously, but shall be in good working condition, free of defect, and have only been used to convey potable water. The Contractor shall procure pipe, fittings, adapters, materials, and components required for a complete and operable high-lining system installation. Products and materials shall be suitable for the intended purpose and recommended by the manufacturer for the application intended. Hoses shall be used only at corners and curves and for connections to user’s service meter(s).

- a) Pipe. Pipes shall be fabricated largely in sections of 2” Galvanized steel pipe and conform to the following:
  - i. ASTM A53 or other equal ASTM galvanized pipe standard.
  - ii. Minimum wall thickness shall be Schedule 40 (0.154”).
  - iii. Pipe ends shall be machine cut or rolled for grooved couplings and fittings in compliance with ANSI/AWWA C606.
  - iv. Fittings and Couplings.
- b) Fittings and Couplings. Fittings shall be ductile iron. Fittings and couplings, including tees, wyes, elbows, , reducers, caps, plugs, and adapters, shall have standard flexible grooved mechanical joint connections in compliance with ANSI/AWWA C 606. Minimum pressure rating shall be 200 psig.
  - i. Housing material shall be ductile iron coated with the manufacturer’s standard painting system. Coupling gasket material shall be standard Ethylene-Polypropylene Diene Monomer (EPDM) rubber.
  - ii. Couplings shall be Victaulic Style 78 or approved equal.
  - iii. The branch outlet of reducing tees shall be 1” male pipe thread. Connections of standard tees shall be grooved.
  - iv. Grooved elbows with 11¼, 22½, 45 and 90-degree bend angles will be required to configure the high-line piping system to existing bends and contours at the Site.
  - v. Manufacturers: Victaulic, Mech-Line, or approved equal.
- c) Meter connections.
  - i. For meters up to 1” size, the connections shall be 90-degree, long radius, brass elbow couplings with a swivel meter nut on one end and male pipe threads on the other.

- A. The swivel meter nut shall be sized to fit the specific meter. The male pipe thread end shall be fitted with a galvanized steel “Chicago” two (2)-lug, quarter-turn, quick disconnect hose fitting-to-female pipe thread fitting.
    - B. Manufacturers: James Jones Co., Ford Meter Box Co., Inc., or approved equal.
  - ii. For meters larger than 1”, the connections shall be elbows with a 2-bolt Class 125 flange on one end and female pipe threads on the other.
    - A. The flange shall be sized to fit the specific meter. The female pipe thread end shall be fitted with a short pipe thread to grooved connection adapter nipple.
    - B. Alternately, the assembly can be a 2-bolt Class 125 flange-to-male pipe thread fitting, a threaded pipe elbow, and a short pipe thread-to-grooved connection adapter nipple.
    - C. Manufacturers: James Jones Co., Ford Meter Box Co., Inc., or approved equal.
    - D. Bushings, reducers, and adapters. The City Forces will be responsible for all fit-up and connections in the system. The Contractor shall provide all bushings, reducers, and adapters required to connect the high-line system to the existing fire hydrants, meters, and other facilities at the Site. Bushings, reducers, and adapters shall be provided at no additional cost to the City.
    - E. Pipe-to-hose adapters. For 1” hoses, the adapter shall be a 1”, galvanized steel, “Chicago” 2-lug, quarter-turn, quick disconnect hose-to-female pipe thread fitting.
    - F. Fire hydrant-to-pipe connectors, the actual connection to the live fire hydrant shall be a brass or bronze 1.5” female fire hydrant thread to 2” male pipe thread fitting.
- d) Bolts and Fasteners. Bolts and fasteners, including bolts, nuts, and washers, shall meet the minimum requirements of ASTM A 307, and shall be hot dipped galvanized according to ASTM A 153. Bolts shall be installed with nuts face down.
- e) Valves.
  - i. Pipe shutoff valves shall be 2”, lever handle, two-position, manual butterfly valves with grooved mechanical connections in compliance with ASTM C 606. Minimum pressure rating shall be 200 psig.
    - A. Housing material shall be ductile iron coated with the manufacturer’s standard painting system. Seal material shall be standard EPDM rubber.
    - B. Manufacturers: Victaulic, Mech-Line, or approved equal.
  - ii. Curb stop valves shall be bronze full-port ball valves without handles.

- A. Seats shall be molded Buna-N rubber or other approved material. The ball shall be Teflon-coated brass or bronze. Approved plastic ball materials will be considered as substitutes.
  - B. Size shall be 1-inch with female pipe thread connections. Other sizes and end connections may be required to accommodate specific user connections.
  - C. Manufacturers: James Jones Co., Ford Meter Box Co., Inc., A. Y. McDonald Mfg. Co., or approved equal.
- f) Hoses.
- i. User connection (Service Meters).
 

For meters up to 1”, the hose shall be a 1” standard general service air compressor hose with EPDM cover and 300 WP rating. End connections shall be galvanized steel, “Chicago” 2-lug, quarter-turn, quick disconnect fittings banded to the hose.

Manufacturer: Thermoid, or approved equal.
  - ii. Curves and curbs.
 

Hose shall be 2” standard general service air compressor hose with EPDM cover and 300 WP rating. End connections shall be galvanized steel grooved mechanical end fittings in compliance with ASTM C606 banded to the hose.

Manufacturer: Thermoid, or approved equal.
- g) Check Valves.
- i. Check valves shall be swing check type with grooved mechanical connections in compliance with ASTM C606. Minimum pressure rating shall be 200 psig.
  - ii. Housing material shall be ductile iron coated with the manufacturer’s standard painting system. Seal material shall be standard EPDM rubber.
  - iii. Manufacturers: Victaulic, Mech-Line, or approved equal.
- h) Backflow Preventers.
- i. Shall meet the requirements of AWWA C511.
  - ii. Manufacturer and model shall be approved by Department of Public Health (previously known as DHS).
- i) Pressure Regulators.
- i. If required, the Contractor shall provide 2” pipe size of bronze or ductile iron construction. Materials, coatings, seals, diaphragms, and trim shall be approved for potable water service. Connections shall be pipe threaded union couplings.

- ii. Pressure ratings and regulation ranges shall be approved for the pressure zones involved.
- iii. Manufacturer: Braukmann or approved equal.
- j) Temporary Asphalt (Coldmix). Temporary asphalt shall be provided by the Contractor on a unit price basis.
- k) Pipe Supports.
  - i. Shall be adjustable type and fabricated from galvanized carbon steel.
  - ii. Manufacturers: Grinnell, Tolco, or approved equal.

**700-1.2.2.5 Construction.**

- a) Authorization. The Contractor shall not order/purchase material of any part of the high-lining system without an approved submittal and written authorization by the Engineer.
- b) Workmanship.
  - i. Contractor workmanship shall meet the accepted standards of the trades involved.
  - ii. High-lining system shall be installed and maintained such that it is neat, orderly, and leak-free, and shall be arranged to minimize interference with or present a hazard to normal usage of streets, sidewalks, driveways, and other affected facilities.
  - iii. High-lining system shall be installed in such a manner that it does not cause flooding to the surrounding area.
  - iv. Excess materials and debris shall be removed from the Site by the end of the Working Day on which they are generated.
- c) Water Users Notification. The Contractor shall coordinate the Work to minimize the duration of water shutdowns and outages.
- d) Emergency Telephone.
  - i. The 24-hour Emergency Services telephone number which shall be listed in user notifications, imprinted on safety barricades, and posted in the Work area shall be the Contractor's emergency number.
  - ii. On receipt of notification of a problem in the work area, the Contractor shall immediately notify the Engineer and Water Operations Division (City Forces). In case of emergency e.g., life threat, the Contractor shall contact Emergency Services.
- e) Repair and Maintenance.
  - i. The Contractor shall maintain the temporary asphalt ("coldmix") protective ramps for the duration of the high-line installation. Coldmix damage discovered or reported shall be repaired that same day by the Contractor.

- ii. The Contractor shall repair and maintain the high-line system during Normal Working Hours.
  - iii. The Contractor shall provide replacement parts needed for highline repairs. Leaks or damage shall be repaired within one hour of discovery or reporting. These repair criteria shall apply to leaks or damage arising for any reason, including vandalism and damage by Contractor personnel, equipment, or work activities.
  - iv. If the repair involves any disassembly of the system, the Contractor shall disinfect and flush the affected components according to AWWA C651. This will be done in the presence of the City Public Utilities Department, Water Operations Division employee familiar with the water system.
  - v. Repair work shall be inspected and approved by the Engineer and the City Public Utilities Department, Water Operations employee familiar with the water system. At the sole discretion of the Engineer, the Contractor shall be billed separately for **non-responsive** or otherwise unacceptable repair and maintenance work that the City must do to restore any service.
- f) Problem Reporting. High-line system problems discovered or reported and corrective actions taken shall be documented in the Contractor's daily log and reported to the Engineer within 24 hours of the discovery or report.
- g) Traffic Control. The Contractor shall provide traffic control for all high-line work.
- h) Schedules and Timing.
- i. The time required to furnish and install the high-lining system as a whole or in accordance with phases, shall be included in the Contract Time. The high-lining schedule shall be submitted to the Engineer for review and approval in accordance with 2-5.3, "Submittals."
  - ii. The Contractor shall coordinate high-lining operations such that the Project's Schedule is not affected or delayed
- i) Installation of High-line Piping System.
- i. The high-line piping system shall be installed in accordance with the approved schedule.
  - ii. Piping phases shall be installed in loop systems, with a fire hydrant connection to the water supply at each end.
  - iii. The high-line piping system shall be inspected and approved by the City Public Utilities Department, Operations Division familiar with the water system via the Engineer prior to the City Forces charging the system with potable water or connecting to any user service line.
  - iv. The high-line piping shall be installed along both sides of streets to supply water service connections to water meters. Meter service connection shall not be routed across a roadway, driveway, or other area subject to vehicular traffic.

- v. Shutoff valves shall be installed at each fire hydrant connection, along the piping runs at the check valve, on either side of high-line tee fittings for user connections to all meters and at the ends of cul-de-sac blind runs to permit flushing. The lever handles shall be removed from the valves to prevent unauthorized operation.
  - vi. The 2-bolt grooved couplings shall be installed with the bolts oriented as shown on Figure 5, Typical Curb Piping Runs. This orientation permits the pipe to be laid closer to the curb and is less susceptible to damage by auto traffic. To prevent damage to auto tires, coupling bolts shall not extend beyond the thickness of the nut when installed and tightened.
- j) Fire Hydrant Connection.
- i. The fire hydrant connection shall be laid as shown in the Standard Drawings **or details included in the Contract Documents** for Fire Hydrant High-lining Connection. The Contractor shall make the final connection to the fire hydrant system.
  - ii. The Contractor shall use elbows of different bend angles as required to align the connection fittings parallel to the sidewalk or curb.
  - iii. In situations where the fire hydrant is located such that piping must cross a sidewalk, piping shall be routed under the sidewalk surface in a 6" wide x 6" deep saw cut trench by the Contractor. The trench backfill and temporary asphalt surface shall be tamped and compacted to provide a smooth, safe surface for the duration of the high-lining by the Contractor. Routing the pipe above the sidewalk shall not be permitted.
- k) User Connection (Service Meters).
- i. The Contractor shall furnish and install all material and labor as specified; the Contractor shall connect the water services to the system, see Standard Drawings or the **details included in the Contract Documents** for Residential User High-lining Connection.
  - ii. Connection to meters sized up to 1-inch shall be as shown in or the **details included in the Contract Documents** for Residential User High-lining Connection.
  - iii. Connection to meters 1½" and larger shall be made with 2" galvanized steel pipe with grooved connections.
  - iv. A shutoff valve in the user connection line shall be provided at the high-line tee fitting.
  - v. Meters 1½" and larger typically have 2-bolt flanged connections. Provide adapters as required to connect to specific meters.
  - vi. Sidewalk crossings may be routed above ground and ramped with temporary asphalt (coldmix), see Standard Drawings or the **details included in the Contract Documents** for Driveway High-lining Crossing or Curb Ramp High-lining Crossing, Typical Driveway or Handicapped Access Crossing, and as required elsewhere in this subsection.

- vii. Field cut, groove, and fit 2" galvanized steel pipe, as required to make user connections. Sections of the high-line piping shall be cut such that service tees are as close as possible to the user meters and service connection hose or piping length is minimized.
  - viii. Provide barricades and cones as required by the approved Traffic Control Plan, at service tees and meters, and as required to ensure public safety.
- l) Roadway Crossing and Trenching.
- i. Portions of the high-line system should be trenched and buried by the Contractor to avoid interference with roadways.
  - ii. Wherever piping is required to cross a roadway, piping shall be routed below the roadway surface in a 6" wide x 6" deep (approximate dimensions) saw cut trench. Routing the pipe above the roadway shall not be permitted. The trench backfill and temporary asphalt surface shall be tamped and compacted to provide a smooth, safe surface for the duration of the high-lining.
- m) Vehicle Driveway or Curb Ramp Crossing.
- Wherever the high-line piping crosses a vehicle driveway or curb ramp crossing, the piping shall be provided with temporary asphalt crossing ramps as shown in the Standard Drawings or the **details included in the Contract Documents** for Typical Driveway or Curb Ramp Crossing. The temporary asphalt crossing ramps shall be tamped and compacted to provide a smooth, safe surface for the duration of the high-lining. The temporary asphalt crossing ramps shall be constructed such that they do not interfere with normal storm water or other drainage flows. They shall not divert drainage flows either into the street or onto adjacent properties. Where required to achieve proper drainage, sections of galvanized steel piping shall be installed in the crossing ramp parallel to the high-line piping to allow for drainage past the crossing ramp. Crossing ramp installations shall be inspected and approved by the Engineer
- n) Corners and Curves.
- i. Routing the high-lining system around corners and curves shall typically be accomplished by use of 2" hose.
  - ii. A 2" shutoff valve shall be installed at each end of the curve.
  - iii. Portions of corners and curves with driveways or curb ramps shall be crossed with galvanized steel pipe as shown on the Standard Drawings or **the details included in the Contract Documents** for Driveway or Curb Ramp High-lining Crossing. Use of hose shall not be permitted at these crossings.
  - iv. Corners and curves with bend radii too short to be accommodated by hose shall be routed with short sections of galvanized steel pipe and grooved elbows of different bend angles. Pipe shall be cut, grooved, and fitted in the field as required.
  - v. Portions of the piping and fittings extending 12" or more from the curb shall be protected with temporary asphalt covering of not less than 1 inch thickness above the pipe and fittings. The temporary asphalt covering shall be sloped over the pipe and tamped in place to provide a durable surface.

### 700-1.2.2.7 Start-up Procedures.

- a) System leak test. The Contractor shall:
  - i. Charge the system with available water pressure, bleed the system of air, and verify that the entire system is filled.
  - ii. Visually inspect the system for leaks and repair any leaks discovered. The system will not be accepted by the Engineer until all leaks are repaired.
- b) Flushing, disinfection, and bacteriological testing of high-line mains.
  - i. The Contractor shall not use the high-lining system to fill and flush any main or piping.
  - ii. After the high-line system is fully assembled but not hooked-up to the consumer meters, the Contractor shall flush the piping with potable water from a commercial metered source until the effluent is clear and free of dirt and debris. The Contractor shall designate the disposal of flushing water via approved methods.
  - iii. The Contractor shall disinfect the high-lining piping according to AWWA C651 and 306-1.4.7, "Disinfection."
  - iv. The transport, storage, and handling of disinfection materials shall be in accordance with the CFR 1910.120, Hazardous Waste Operations and Emergency Response, CFR 49.12 Hazardous Materials Regulations, and the General Industry Safety Orders of the California Code of Regulations, Title 8, Section 5194.
  - v. Pipeline disinfection shall be accomplished with calcium hypochlorite tablets. Short pipe sections, valves, fittings, and similar small portions of the system shall be disinfected with a solution of sodium hypochlorite.
  - vi. The Contractor shall notify the Engineer 5 Working Days in advance of the date that the high-line system will be disinfected and ready for bacteriological testing.
  - vii. The City Water Quality Laboratory will collect samples from three points in the high-lining piping. Two points shall be from taps near the fire hydrant connections at each end, and one from a tap near the center of the piping.
  - viii. The City Water Quality Laboratory shall perform bacteriological testing in accordance with AWWA C651 and the City standards.
  - ix. The high-line system shall not be accepted until two consecutive sets of acceptable samples collected 24 hours apart pass tests administered by the City Water Quality Laboratory, and until written notice of acceptance is issued by the Engineer. The City Water Quality Laboratory shall be the sole judge as to whether or not the test samples meet or exceed the established test criteria.
  - x. In the event that the high-line piping system fails to pass the required bacteriological testing, the Contractor shall re-flush and re-disinfect the lines at no additional cost to the City. Disposal of chlorinated water shall be in accordance with the City standards and regulations. Indiscriminate disposal of chlorinated water shall not be permitted.



- xi. On acceptance of bacteriological testing, the Contractor shall drain and flush the highline piping system according to AWWA C651 and the City standards. Disposal of chlorinated water shall be in accordance with the City standards and regulations. Indiscriminate disposal of chlorinated water will not be permitted.
- c) Restoration of Normal Service.
  - i. Flushing of the New Main Line. The Contractor shall not flush the new main line with water from the high-line system.
  - ii. User Hook-up to the New Main Line.
    - A. Restoration of user service to the new water main line shall be done only after installation, disinfection, and bacteriological testing of the new water main line is verified by the City, and user connection lines are completed.
    - B. Transfer of the water service from the high-line to the new water main line shall be performed by the Contractor.

**700-1.2.2.8 Disassembly of High-line System.**

- a) After restoration of normal service to water users, the Contractor shall disconnect high-lining from all services and breakdown and fully disassembles the high-line system and removes all high-line construction materials and debris from the area by the end of the Working Day.
- b) The Contractor shall remove all high-lining construction material and debris, and shall restore streets, curbs, gutters, sidewalks, fire hydrants, and other disturbed facilities in accordance with 7-9, “Protection and Restoration of Existing Improvements.” Street resurfacing shall be restored in accordance with 302-6, “Portland Cement Concrete Pavement” and City of San Diego Standard Drawings.
- c) High-Lining Materials. High-lining materials shall become the Contractor’s property.

**700-1.2.2.9 Figures.** The Contractor shall refer to the high-lining details **provided in the Contract Documents as appendix** or included as Standard Drawings.

**ADD: 700-1.2.2.10 Payments.** The Bid item provided for high-lining Work shall cover the Work described in 700-1.2.2, “High-lining by the Contractor” and include the following:

The lump sum bid item for “High-lining by the Contractor” shall be full compensation for furnishing all materials necessary to install the high-lining system, for installing the high-lining system complete and dismantling it after the restoration of normal service to water users, for connections including water services, restoration of the surface improvements, and maintaining and repairing the high-lining system during construction.

**700-1.3 Connections to the Existing System.** The City Forces will be responsible for making connections and cut-ins to the existing mains as part of the base Bid

**700-1.3.1 Connection by the City Forces.** The Contractor shall provide the following information about the main prior to connections:

- a) condition of pipes and valves,
- b) type of fitting and joint to which connection is to be made (i.e., construction), and
- c) alignment, elevation, and location of the water main and any fittings.

**700-1.3.1.1 Connection by the City Forces When the City Forces Cut and Plug the Existing Main.** The City Forces will isolate existing water main to be replaced by the Contractor. The City forces will mark location, elevation, and approximate grade of existing main on street pavement and record this information for future use. The Contractor shall consult and cooperate with the City Forces' supervisor to ensure that the information is understood and used correctly. Within the last 10' to be installed by the Contractor, the Contractor shall install bends, concrete thrust blocks, short lengths of pipe, and other appurtenances necessary to put the new installation on line and grade with the existing pipe.

**700-1.3.1.2 Connection by the City Forces When the City Forces Do Not Cut and Plug the Existing Main.** The Contractor shall expose the existing water main where the Work ends. The Contractor shall be responsible for determining the elevations of existing water mains and fittings. The new water main shall be at the same grade and parallel alignment as the existing main and shall be no farther away than 1' from the existing water main. At the option of the Contractor, one or two bends or pulled joints may be used to accomplish this condition.

**700-1.3.1.3 Furnishing Materials.** If required in the Contract Documents, the Contractor shall furnish the necessary materials for the City Forces' connection and cut-in work as shown on the Plans to the City. The Contractor shall coordinate closely with the City Forces for the delivery of materials. The delivery location for furnished materials shall be determined by the City Forces. No materials shall be delivered to the City until the City Forces are ready to construct the work, unless otherwise specified, in writing, by the City.

**700-1.3.1.4 Pavement Restoration for the City Forces Final Connection.** Within 10 days following the completion of the City Forces final connection work in the Project areas, the Contractor shall remove all temporary resurfacing, saw cut trench area, compact sub-grade and restore affected area with permanent resurfacing in accordance with 302-6, "Portland Cement Concrete Pavement" and City of San Diego Standard Drawings.

**700-1.3.1.5 Payment.** The payment for the furnished material for the City Force connection and cut-in work shall cover materials (i.e., fittings, valves, and hardware) including delivery and unloading. The Contractor will be paid under the lump sum Bid item for "Contractor Furnished Materials for City Forces Connection and Cut-in Work for Mains 16-inch and Larger."

Traffic control, saw cutting the trench area, trench cap, and other spot repairs in the vicinity of disturbed area at each restored connection shall be included in the Bid item for Pavement Restoration for the City Forces Final Connection. Asphalt Overlay and Slurry Seal will be paid under separate Bid items.

**700-1.3.2 Connections to the Existing System by Contractor.** If required in the Contract Documents, the Contractor shall make the connection (e.g., cut-in or tie-in) to the existing mains as shown on the Plans, specified in these specifications, and in conformance with the latest standards of the State Department of Public Health. Suitable facilities shall be provided by the Contractor for proper de-watering, drainage, and disposal of all water removed from the excavation and pipe without damage to adjacent property. The Contractor shall locate and expose the existing water main to which connection is to be made prior to and in advance of trenching to permit grade and alignment changes as approved by the Engineer. In the presence of the Engineer or an authorized City Public Utilities Department, Water Operations Division employee familiar with the water system), the Contractor shall make the connections as shown on the Plans regardless of the condition or location of the existing pipe, valves, and fittings with no adjustment in the Contract Price.

**700-1.3.2.1 Submittals.** The Contractor shall submit Shop Drawings, Working Drawings, and other information in accordance with 2-5.3, “Submittals” prior to start of construction. The drawings and other descriptive material shall adequately describe procedures to be used, materials to be furnished, any related pipeline appurtenances, and trench shoring. Each drawing shall be reproducible original, accompanied by 6 copies of all submitted information. If approved without change or correction, two approved copies will be returned to the Contractor. The Contractor shall include all time impacts of protecting the existing water main in the Schedule.

**700-1.3.2.2 Utility Verification for Connection Location.** The Contractor shall pothole the location and depth of all utilities to verify that there are no utility conflicts prior to excavation.

The Contractor shall locate and confirm vertical and horizontal locations, size, shape, materials, and construction of existing water mains.

**700-1.3.2.3 Notification and Timing of Shutdowns.** The Contractor shall coordinate the Work with the City Water Operations Division, and notify them a minimum of 20 Working Days after Engineer’s approval of the Contractor’s work plan and prior to any shutdown of an existing water line. The City Forces will perform all shutdowns including trial and final attempts. If the Contractor fails to keep the field appointments, the City will bill the Contractor for scheduled the City Forces waiting or standby time and the costs incurred by the City for notification of its customers for the subsequent appointment.

The Contractor shall schedule the requested shutdowns during low demand times. Unless otherwise shown on the Plans, the Contractor shall assume residential areas may be done during the day, and all commercial and industrial areas, including all areas with schools, or businesses, shall be shut down at night. The Contractor shall coordinate with the City’s Public Utilities Department to verify the appropriate times prior to construction. The City may refuse to shutdown a water line on the day requested by the Contractor due to operational circumstances (e.g.,, business cannot withstand a shutdown of water at that time; other connecting distribution systems are out of service at the same time; high water demands by customers; etc.) or other reasonable concerns by the City. No request will be denied for arbitrary reasons.

The Contractor shall notify the Engineer 5 Working Days prior to any work that will affect water service. The Contractor shall prepare and distribute, after approval by the City, written notification 3 Working Days prior to starting Work on any water main that will affect service. This notification shall be delivered door-to-door to water users in the affected area. A copy shall be delivered to the Engineer on the date of user notification.

The Contractor shall notify all consumers with fire services 20 Working Days in advance of any shutdown.

**700-1.3.2.4 Connection.** Prior to connecting to existing water main, the Contractor shall have all personnel, material and equipment ready to connect the fittings to the existing mains to minimize the shutdown time. The City may postpone or reschedule any shutdown operation if for any reason the City determines that the Contractor is improperly prepared with competent personnel, equipment, or materials to proceed with the connection.

When installing a cut-in tee or cross with new valves, reducers or other fittings that is larger than the existing pipe, the new assembly shall be installed at the depth sufficient to allow the valve to remain below the subgrade of the street which may necessitate lowering the existing pipe. The Contractor shall provide and install the entire assembly -including valves and reducers and any other hardware necessary under the City inspection in accordance with the City Standards. The entire assembly shall be connected in advance to facilitate the expedient connection to existing main.

The Contractor shall clean and disinfect the connection in accordance with AWWA C651.

Shutdown of the water main and Connection operations shall be coordinated with high-lining operation and shall be completed within timeline specified in these specifications.

If Connection operation exceeds the time as identified in the notification, causes health and safety risks, or disruption of water service to the consumers, the Contractor shall notify the Engineer and the City's Station 38 at (619) 527-7660 for assistance to provide potable water and temporary high-lines to restore water to the affected consumers. The City will order necessary corrective measures. All costs for corrective measures shall be paid by the Contractor. The Contractor shall be liable to the City for the costs of the City Forces' emergency work.

If existing valves leak excessively once closed during the isolation of the segment that is going to be connected, the Contractor shall use methods at the Contractor's disposal to work with the resulting leakage. If the influx of water cannot be controlled with two 2-inch pumps sufficiently to complete the work, then the shutdown shall be rescheduled, as agreed upon by the City and Contractor.

**700-1.3.2.5 Quality Control.** The connection Work shall be in the presence of the Engineer or a Public Utilities Department, Water Operations Division employee familiar with the water system. The Contractor shall take every precaution necessary to prevent trench water, dirt or debris from entering the water mains during connection operation.

Under no circumstances shall a non-disinfected water main, which cannot be isolated and has not passed bacteriological test, be connected to an existing disinfected water main.

**700-1.3.2.6 Operation of Valves.** Valves on the City's water main system shall be cleaned and operated only by the City Forces. The Contractor may exercise valves on services as necessary to complete the Work.

**700-1.3.2.7 Repair.** If the water main is damaged by the Contractor's operations, the Contractor shall immediately notify the Engineer and the City Water Operations Division representative or the City's Station 38. The City Forces will perform all necessary repairs to the water main. The Contractor shall be liable to the City for the costs of the City Forces' repair work.

**700-1.3.2.8 Compaction.** Compaction of the trench after installation of the water main shall be in accordance with 306-1.3, “Backfill and Densification.”

If the Work is located within a different jurisdiction or agency other than the City or private easement, compaction shall meet the requirements of that agency or utility granting the permit.

**700-1.3.2.9 Surface Restoration.** The Contractor shall restore to its original grade and condition surfaced areas in accordance with 7-9, “Protection and Restoration of Existing Improvements.” After final connection is completed, the Contractor shall remove all temporary resurfacing, compact sub-grade and restore affected area with permanent resurfacing in accordance with 302-6, “Portland Cement Concrete Pavement” and City of San Diego Standard Drawings.

**700-1.3.2.10 Payment.** “Connection to The Existing System by the Contractor” e.g., cut-in or tie-in will be paid under Bid unit prices for connections, and cut-ins and include furnishing and installing all materials and labor to complete the work. Potholing for and protecting the water main while performing the Work, information essential for making the connection, coordination of Work with the City Forces, scheduling impacts, community outreach, materials and traffic control shall be included in the payment.

**700-1.4 Cut and Plug of the Existing System by the Contractor.** The cut and plugs of the existing system as part of the base Bid shall be performed by the City Forces.

**700-1.4.1 Submittals.** The Contractor shall submit Shop Drawings and Working Drawings and other information for the cut and plug of existing water mains in accordance with 2-5.3, “Submittals.” The submittals shall adequately describe procedures to be used e.g., distance from valves, thrust blocks for temporary plugs, materials to be furnished, any related pipeline appurtenances, and trench shoring. Each drawing shall be reproducible original, accompanied by 6 copies of all submitted information. If approved without change or correction, 2 approved copies will be returned to the Contractor. The Contractor shall include in the Schedule all time impacts to protect the existing water mains.

The Contractor shall submit traffic control drawings and obtain the Traffic Control Permit from the City prior to the start of the cut and plug and reconnection operations.

**700-1.4.2 Utility Verification for Cut & Plug location.** The Contractor shall pothole the location and depth of all utilities to verify that there are no utility conflicts prior to excavation.

The Contractor shall locate and confirm vertical and horizontal locations, size, shape, materials, and construction of existing water mains.

**700-1.4.3 Notification and Timing of Shutdowns.** The Contractor shall coordinate the Work with the City Water Operations Division, and notify them a minimum of 20 Working Days after Engineer’s approval and prior to any shutdown of an existing water line. The City Forces will perform all shutdowns. If the Contractor fails to keep the field appointments, the City will bill the Contractor for scheduled the City Forces waiting or standby time and the costs incurred by the City for notification of its customers for the subsequent appointment.

The Contractor shall schedule the requested shutdowns during low demand times, Unless otherwise shown on the Plans, the Contractor shall assume residential areas may be done during the day, and all commercial and industrial areas, including all areas with schools, or businesses, shall be shut down at night. The Contractor shall coordinate with the City's Public Utilities Department to verify the appropriate times prior to construction. The City may refuse to shutdown a water line on the day requested by the Contractor due to operational circumstances (i.e., business cannot withstand a shutdown of water at that time; other connecting distribution systems are out of service at the same time; high water demands by customers; etc.) or other reasonable concerns by the City. No request will be denied for arbitrary reasons.

The Contractor shall notify the Engineer 5 Working Days prior to any work that will affect water service. The Contractor shall prepare and distribute, after approval by the City, written notification 3 Working Days prior to starting Work on any water main that will affect service. This notification shall be delivered door-to-door to water users in the affected area. A copy shall be delivered to the Engineer on the date of user notification.

The Contractor shall notify all consumers with fire services 20 Working Days in advance of any shutdown.

**700-1.4.4 Cut and Plug.** Prior to cutting and plugging of the existing water mains, the Contractor shall have all personnel, material and equipment ready to minimize the shutdown time. The Contractor shall organize its workforce, equipment and operations to protect the existing water main while performing the Work.

Shutdown of water main and cut and plug operations shall be coordinated with high-lining operation and shall be performed during low demand times and shall be completed within the timeline specified in these specifications.

After isolation of the mains, rarely does a completely dry condition exist in the trench. If the existing valves leak excessively once closed *during the isolation of the segment that is going to be plugged*, the Contractor shall use methods at Contractor's disposal to work with the resulting leakage. If the influx of water cannot be controlled with two 2-inch pumps sufficiently to complete the work, then the shutdown shall be rescheduled, as agreed upon by the City and Contractor.

If the cut and plug operation exceeds the time as identified in the notification or causes health and safety issues or disruption of water service to the consumers, the Contractor shall notify the Engineer and the City's Station 38 at (619) 527-7660 for assistance. The City will provide potable water and or temporary high-lining to restore water to the affected consumers. The City will order necessary corrective measures.

All costs for corrective measures shall be paid by the Contractor. The Contractor shall be liable to the City for the costs of the City Forces' emergency work.

**700-1.4.5 Quality Control.** Cut and plug of existing water lines shall be completed in a safe, neat and orderly manner. Plugs shall be capable of blocking pressurized main with no visual leak detected. The Contractor shall take every precaution necessary to prevent trench water, dirt or debris from entering the water mains during the capping or plugging operation.

Cut and plug shall not proceed if the City Public Utilities Department, Operations Division employee familiar with the water system is not present for the duration of the cut and plug.

After the cut and plug operation, the water main and appurtenances shall be disinfected and field tested by the Contractor in accordance with the latest edition of AWWA C651. The City Forces shall take water samples for bacteriological tests in accordance with Section 7 of the AWWA C651.

Suitable facilities shall be provided for proper de-watering, drainage, and disposal of all water removed from the excavation or pipe without damage to adjacent property.

**700-1.4.6 Operation of Valves.** Valves on the City’s water system shall be cleaned and operated only by the City Forces. The Contractor shall exercise valves on services as necessary to complete the Work.

**700-1.4.7 Repair.** If the water system is damaged by the Contractor’s operations, the Contractor shall immediately notify the Engineer and the City’s Station 38 or the City Water Operations Division representative. The City Forces will perform all necessary repairs to the water main. The Contractor shall be liable to the City for the City Forces’ work for the repair.

**700-1.4.8 Surfaced Areas Impacted by Cut & Plug.** Surfaces impacted by excavation to install cut and plug shall be temporarily backfilled, resurfaced, and maintained.

**700-1.4.9 Payment.** Locating e.g., potholing for and protecting the water main, coordination of Work with the City Forces, any scheduling impacts, community outreach, furnishing and installing materials, and traffic control shall be included in the unit price payment for “Cut and Plug of The Existing System by the Contractor.”

## **ADD: 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.

### **SECTION 804 – SEWAGE SPILL PREVENTION**

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

**804-1 GENERAL.** The Contractor shall observe and comply with the City’s policy of zero spills. **The Contractor shall be liable for all damages and fines associated with sewage spills caused by improper support or damage to the existing sewer facilities.**

The Contractor shall designate a person responsible for the development and enforcement of the Sewage Spill Response Plan, and for ensuring sewer spills are minimized to the maximum extent possible. The Contractor shall provide a status of all bypass related work at biweekly progress meetings as requested by the City.

**804-2 SEWAGE SPILL PREVENTION AND RESPONSE PLAN.** Prior to the start of construction, the Contractor shall develop and submit to the Engineer, for review and approval, a written Sewage Spill Prevention and Response Plan. The plan shall include sewage spill response plan, spill containment and cleanup plan, staging area, and sewage bypass and pumping plan.

The Sewage Spill Prevention and Response Plan shall be developed to respond to any construction related sewage spill(s). The plan shall include:

- a) Identifying all nearby environmentally-sensitive areas such as waterways, channels, catch basins and entrances to existing underground storm drains.
- b) Making arrangements for an emergency response unit, stationed at or near the Site, comprised of emergency response equipment and trained personnel to be immediately dispatched in the event of a sewage spill(s). This includes field biologists, archaeologists, or both if in an environmentally-sensitive area such as a canyon.
- c) Developing an emergency notification procedure that includes an emergency response team with telephone numbers and arrangements for backup personnel and equipment. The emergency response unit shall be able to dispatch to the Site 24 hours a day 7 days a week including weekends and holidays. The Contractor shall designate primary and secondary representatives, their respective phone numbers, pager numbers, and mobile phone numbers. These Contractor's representatives shall be accessible and available at all times to respond immediately to any sewer spill event.
- d) Identifying any property owners who may be affected e.g., the City Park and Recreation Department.

At the pre-construction meeting the Contractor will be provided with a list of the City representatives to contact in case of sewage spill(s). In case of a sewage spill(s), the Contractor shall immediately call the Sewage Spill Hotline number at (619) 527-5481 and shall act immediately without instructions from the City, to control the spill and take all appropriate steps to contain it in accordance with the Sewage Spill Prevention and Response Plan and 804-2.1, "Sewage Bypass and Pumping Plan." The Contractor shall immediately notify the City representatives of the spill and shall report Project name, location, Contractor name, Project Engineer, and Engineer names.

The Contractor shall, within 3 Working Days from the occurrence of the spill, submit to the Engineer a written report describing the following information related to the spill: the location; the nature and estimated volume; the date and time; the duration; the cause; the type of remedial and/or clean up measures taken (including erosion control measures) and the date and time of implementation; the corrective and/or preventive actions taken to avoid further spills; equipment used in spill response; and the environmentally-sensitive habitat such as a water body, if any, impacted and results of any necessary monitoring. The Contractor shall provide a list of who from the City was notified, date and time of notification, date and time the Contractor was notified of the spill, date and time the Contractor arrived on Site.

The Engineer may institute further corrective actions, as deemed necessary, to fully comply with existing laws, ordinances, codes, order or other pertinent regulations. In addition to any penalties provided by federal, state, and local laws, the Contractor shall be responsible for all costs incurred for the corrective actions including mitigation measures (habitat restoration, etc.) and obtaining after-the-fact permits if necessary, in environmentally sensitive areas. These permits include but are not limited to those from the City Planning Department Development Services, California Coastal Commission, U.S. Army Corps of Engineers and the California Department of Fish and Game.

It shall be the Contractor's responsibility to assure that all field forces, including Subcontractors, know and obey all safety and emergency procedures, including the Sewage Spill Prevention and Response Plan applicable to the work, to be maintained and followed at the Site. If in an environmentally sensitive area, such as canyon, stream, or lagoon, impacts shall be minimized. Crews shall be aware at the start of the job of any sensitive environmental habitats, breeding season restrictions, etc.



The Contractor shall prevent spills when working on sewer lines, such as when making temporary connection, when connecting new lines into the sewer system, ensuring no laterals are connected to mains being abandoned, ensuring diversions are appropriately installed, and diversions are completely removed when finished so there are no blockages. The Contractor shall not trap debris and discharge rock or debris downstream. Avoidance of streams is paramount unless authorized via permits.

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 any sewage spill caused or claimed to be caused by the Contractor's action or failure to take measures to prevent a spill. **The Contractor shall be responsible for payment of any fines assessed against the City for such sewage spills.** The Contractor's duty to indemnify and hold harmless shall not include any claims or liability arising from the established active or sole negligence or willful misconduct of the City, its agents, officers or employees.

The Contractor shall obtain and maintain an additional insurance coverage for Pollution Liability with its limits and requirements as set forth in 7-3.5.3, "Contractors Pollution Liability Insurance Endorsements." The limits and requirements for Pollution Liability shall be in an amount sufficient to cover potential losses from sudden and accidental pollution. Unless otherwise provided for in the Bid Proposal, all costs associated with the requirements for Sewage Spill Prevention and Response Plan, including additional insurance, shall be included in the prices for other related Bid items.

**804-2.1 Sewage Bypass and Pumping Plan.** The Contractor shall submit to the Engineer for approval, a Sewage Bypass and Pumping Plan at least 15 Working Days prior to implementation of flow diversion in compliance with the City's policy of "ZERO SPILLS." The Sewage Bypass and Pumping Plan shall indicate the sequence of diversion operations, all other operations the Contractor will establish to maintain wastewater service during the construction period, and a quality assurance and quality control plan for the diversion Work. The Sewage Bypass and Pumping Plan shall include an emergency response plan indicating the procedures, equipment, and activities that will be implemented in the event of an emergency shutdown or failure of the flow diversion equipment used for construction. The Contractor shall be responsible for implementation of the emergency plan in accordance with 804-2 "Sewage Spill Prevention and Response Plan".

The Contractor's Sewage Bypass and Pumping Plan shall be reviewed and approved by the Wastewater Collection Division of the City before flow can be diverted. No deviation from the approved Sewage Bypass and Pumping Plan will be allowed without prior approval from the Engineer.

The Contractor shall observe and comply with all Federal, State, and local laws, ordinances, codes, orders, and regulations which in any manner affect the conduct of the work, specifically as it relates to sewage spills. The Contractor shall be fully responsible for preventing sewage spill(s), containing any sewage spill(s), recovery and legal disposal of any spilled sewage, any fines, penalties, claims and liability arising from negligently causing a sewage spill(s), and any violation of any law, ordinance, code, order, or regulation as a result of the spill(s).

The Contractor shall exercise care not to damage existing public and private improvements, interrupt existing services or facility operations which may cause a sewage spill(s). Any reasonably anticipated utility or improvement which is damaged by the Contractor shall be immediately repaired at the expense of the Contractor. In the event that the Contractor damages an existing utility or interrupts an existing service, which causes a sewage spill(s), the Contractor shall immediately call the emergency number at (619) 515-3525.

The Contractor shall exercise care not to damage any sensitive habitats or historic resources unless authorized via the discretionary permit and Mitigation, Monitoring and Reporting Program approved by the City.

The Contractor shall provide all facilities, labor, power, and appurtenances necessary to divert wastewater flows as necessary to allow proper installation of the pipeline and/or manhole linings.

The Contractor shall submit as part of their Sewage Bypass and Pumping Plan their monitoring procedure and frequency and shall continuously monitor the flow levels downstream and upstream of the flow diversion to detect any possible failure that may cause a sewage backup and spill(s). The Contractor shall maintain a log of the monitoring and provide daily copies to the Engineer in a manner acceptable to the Engineer.

The Contractor shall inspect and maintain the diversion system daily, including the back-up system. The Contractor shall submit with their Sewage Bypass and Pumping Plan their maintenance procedures and frequency. The Contractor shall maintain a log of all inspection, maintenance and repair records, and provide copies to the Engineer upon request in a manner acceptable to the Engineer.

The Contractor shall size the flow diversion system to handle the peak flow and shall include a 100% backup in the flow diversion system. The Contractor shall provide temporary means to maintain and handle the sewage flow in the existing system as required to complete the necessary construction. The Contractor shall utilize the flow diversion system to mitigate any additional wet weather flows, perform the necessary maintenance and repairs on the flow diversion system, and exercise and ensure the operation of the backup system. Each pump, including the backup pumps, shall be a complete unit with its own suction and discharge piping. The Contractor shall operate the backup flow diversion system for a minimum of 25% of the total diversion time on a weekly basis. The backup flow diversion system shall be fully installed, operational, and ready for immediate use. The diversion system shall be hydraulically tested with clean water prior to wastewater flow diversion. The Contractor shall demonstrate to the satisfaction of the Engineer that both the primary and backup flow diversion systems are fully functional and adequate, and shall certify the same, in writing, to the Engineer in a manner acceptable to the Engineer.

The Contractor shall provide one dedicated fuel tank for every single pump or generator, if fuel or generator driven pumps are used. The Contractor shall provide an emergency standby power generator, if electric power driven pumps are used. The Contractor shall provide a fuel level indicator outside each fuel tank. The Contractor shall continuously (while in use) monitor the fuel level in the tanks and ensure that the fuel level does not drop below a level equivalent of two hours of continuous flow diversion system operation. The Contractor shall take the necessary measures to ensure the fuel supply is protected against contamination. This includes but is not limited to fuel line water traps, fuel line filters, and protecting fuel stores from precipitation. The Contractor shall monitor all hoses and repair leaks immediately.

**804-2.2 Payment** Unless a Bid item has been provided, full compensation for the Sewage Bypass and Pumping Plan, its implementation e.g., labor, facilities, equipments, power, appurtenances and incidental, shall be included in the payment for sewer main.

## SECTION 807 – RESOURCE DISCOVERIES

**ADD: 807-1.1 Environmental Document.** The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a Mitigated Negative Declaration Document for **Sewer & Water Group 788**, Project No. **109228**, as referenced in the Contract Appendix. The Contractor shall comply with all requirements of the Mitigated Negative Declaration Document as set forth in Contract Appendix.

Unless a separate Bid item has been provided for compliance with the City’s prepared environmental document e.g., MMRP, payment shall be included in the various Bid items.

**807-1.2 Archeological and Native American Monitoring Program.** To the City Supplement, DELETE in its entirety and SUBSTITUTE within the following:

Unless specified otherwise in the Contract Documents, the Contractor shall retain a qualified archaeologist approved by the City’s Environmental Analysis Section (EAS). In addition to being approved by EAS, and within 5 working days of the bid opening, the Contractor must provide a list of 3 successful local projects the archaeologist completed in the last 5 years, and provide a current reference for each. The City shall verify the information provided and only qualified monitors shall be accepted. The archeologist shall retain the appropriate Native American representative. Archeologist and the Native American representative shall attend the pre-construction meeting. The areas shown on the Plans subject to monitoring are approximate. The archaeologist shall confirm the sites and implement the required monitoring per Contract Appendices.

If a discovery is made, the Contractor’s archaeological monitor shall make a determination as to whether excavation in the area must cease or can continue. The time the Contractor waits for this determination from their monitor cannot be claimed as delay time.

Unless included in the payment for the proposed item of Work e.g., utility main, the full compensation for archaeological and Native American monitoring program and report preparation, as prescribed in Contract Appendices, shall be included in the contract Bid item for archaeological and Native American monitoring program.

If any significant archaeological sites are known to exist in the project area, they will be shown in the Archaeological Data Recovery Program as part of Appendix A. In the event of a significant discovery, foreseen or unforeseen, and if no bid item for Archaeological and Native American Mitigation and Curation is included in the Contract, the Contractor shall be entitled to additional compensation in accordance with 3-3, “Extra Work”, for implementation of a Mitigation Program as set forth in Contract Appendices.

**807-1.3 Paleontological Monitoring Program.** To the City Supplement, DELETE in its entirety and SUBSTITUTE within the following:

Unless specified otherwise in the Contract Documents, the Contractor shall retain a qualified paleontologist approved by EAS. In addition to being approved by EAS, and within 5 working days of the bid opening, the Contractor must provide a list of 3 successful local projects the archaeologist completed in the last 5 years, and provide a current reference for each. The City shall verify the information provided and only qualified monitors shall be accepted. The paleontologist shall attend the pre-construction meeting. The areas shown on the Plans subject to monitoring are approximate. The paleontologist shall confirm the sites and implement the required monitoring in Contract Appendices.

Unless included in the payment for the proposed item of Work e.g., utility main, the full compensation for paleontological monitoring program and report preparation, as prescribed in Contract Appendices, shall be included in the Contract Bid item for paleontological monitoring program.

If a discovery is made, the Contractor's paleontological monitor shall make a determination as to whether excavation in the area must cease or can continue. The time the Contractor waits for this determination from their monitor cannot be claimed as delay time.

In the event of a significant discovery, and if no bid item for Paleontological Mitigation and Excavation is included in the Contract, the Contractor shall be entitled to additional compensation in accordance with 3-3, "Extra Work," for implementation of a Mitigation Program as set forth in Contract Appendices.

**807-1.4 Archaeological and Native American Mitigation and Curation.** To the City Supplement, DELETE in its entirety and SUBSTITUTE within the following:

In the event of a significant Native American or archaeological discovery foreseen or unforeseen and after consultation with EAS staff, the Contractor shall implement a mitigation program as set forth in Contract Appendices. In accordance with the Mitigation and Monitoring Reporting Program, the mitigation program shall include but not be limited to, preparation and implementation of an Archaeological Data Recovery Program (ADRP), recovery, sorting, cleaning, cataloging/identifying/analyzing, curation (bagging, placement into archival boxes, delivery to an appropriate institution, and any fees required by the institution), and reporting, of artifact remains. The Archaeological Principal Investigator (PI) as defined in the MMRP shall make a recommendation if all or a portion, (i.e. representative sample) of the items discovered need to be curated.

Work for mitigation shall be paid from the Allowance Bid item for Archaeological and Native American Mitigation and Curation. The Contractor shall provide the Engineer with invoices for the Work performed, including the invoice from the archaeological monitor in the format shown in the attached Appendix, when included in the Contract Documents, and be reimbursed from the amount allocated.

If there is an ADRP or known site that is indicated in the Contract Documents, the payment shall be included in the Allowance Bid item for Archeological and Native American Mitigation and Curation.

**END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)**

**APPENDIX A**

**Mitigated Negative Declaration**



Land Development  
Review Division  
(619) 446-5460

## Addendum to a Mitigated Negative Declaration

Project No. 109228 ✓  
Addendum to MND Project No. 63654

**SUBJECT:** Water Group Job 788 CITY COUNCIL APPROVAL to allow for the installation of 8,600 lineal feet of sewer pipes, 1,450 lineal feet of water mains, construction of curb ramps, replacement of water laterals, and the installation of new hydrants and valve boxes. Installation of the water and sewer pipe alignment would occur in trenches that would vary in depth from four to fifteen feet and would be approximately three feet wide. Construction of the project would affect portions of the following streets: Aragon Drive, Casita Way, Harvala Street, Missy Court, Donna Avenue, Celia Vista Drive, 69<sup>th</sup> Street, Hannibal Place, Marlowe Drive, Loma Alta Drive, Vista Grande Drive, Veronica Drive, and Donna Way Alley. The project is located within the Mid-City Community Plan area. Applicant: City of San Diego, Water and Sewer Design Division, Engineering and Capital Projects Department.

### I. DESCRIPTION OF CURRENT ACTION:

City Council approval would allow for the installation of 8,600 lineal feet of sewer pipes, 1,450 lineal feet of water mains, the construction of curb ramps, the replacement of water and sewer laterals, and the installation of new hydrants and valve boxes. The project would also include the abandonment of approximately 7,000 lineal feet of sewer main. All work would occur primarily within the public right-of-way (ROW) in developed streets and alleys except for an easement between Aragon Drive and Celia Vista. This easement extends through a private residence and into a parking lot. The existing easement area is devoid of sensitive biological resources.

Activated work hours would occur during the daytime, Monday through Friday. The proposed project would comply with the requirements described in the *Standard Specifications for Public Works Construction*, and California Department of Transportation *Manual of Traffic Controls for construction and Maintenance Work Zones*. A traffic control plan would be prepared and implemented in accordance with the *City of San Diego Standard Drawings Manual of Traffic Control for Construction and Maintenance Work Zones*.

The open trench method of construction would be employed to install the water and sewer alignment. Trench depths would vary from three to fifteen feet depending on the topography of the area. The proposed water alignment replacement would occur in existing trenches at the existing excavated depth (replace in place). 10,856 lineal feet of the sewer alignment would be replace in place, 7,372 lineal feet would be located in an existing trench line but at a greater depth, and 400 lineal feet of the sewer line would be located in new trenches.

Other components of the project would include abandonment and potholing. Abandonment would involve the capping of the existing sewer alignment at the manhole and would not disturb the surface or subsurface. Potholing is employed to verify the reconnection of service to mains or to verify utility crossings.

## II. ENVIRONMENTAL SETTING:

The proposed project would affect portions of the following streets: Aragon Drive, Casita Way, Harvala Street, Donna Avenue, Celia Vista Drive, 69<sup>th</sup> Street, Hannibal Place, Missy Court, Marlowe Drive, Loma Alta Drive, Vista Grande Drive, Veronica Drive, and Donna Way Alley, and is located in the Mid-City Community Plan area. Much of the work would occur within the public right of way in developed streets and alleys except for the connections of laterals on private property and the portion of the installation that would occur in the utility easement. The project site is surrounded by single and multi-family residences and commercial uses. The site is not located within or adjacent to the City's Multiple Species Conservation Program (MSCP), Multi-Habitat Planning Area (MHPA).

## III. PROJECT BACKGROUND

A Citywide Pipelines Projects Mitigated Negative Declaration (MND) was prepared by the City of San Diego's Environmental Analysis Section (EAS) and was certified by City Council on May 30<sup>th</sup> 2006 (resolution number 301496). The Citywide Pipelines Projects MND provides for the inclusion of subsequent pipeline projects that are located within the ROW and would not result in any impacts to sensitive biological resources.

### Historical Resources (Archaeology)

The Citywide Pipelines Projects MND concluded that pipeline projects located within the public right of way could result in significant environmental impacts relating to historic and paleontological resources. Since previously recorded archaeological sites consisting of both prehistoric and/or historic resources have been identified within a one-mile radius of the proposed project alignments there is a potential that buried archaeological resources could be impacted during excavation for new and/or deeper trenches. Therefore, trenching activities could result in significant impacts to archaeological resources.

To reduce this impact to below a level of significance, a preconstruction record search would be required and utilized to determine areas of high to moderate resource potential. The predetermined areas would be monitored by a qualified archaeologist or archaeological monitor. Any cultural resources encountered during monitoring would be analyzed for significance and curated at an appropriate institution. If encountered resources are determined to be significant, a Research Design and Data Recovery Program would be prepared and implemented. These requirements are outlined in Section V., Mitigation Monitoring and Reporting Program, of the Master Mitigated Negative Declaration. Therefore, mitigation measures were implemented to reduce these impacts to below a level of significance. The current project does not result in new impacts which would require mitigation; therefore an Addendum to the MND was prepared.

Paleontological Resources

The geologic Lindavista formation underlies the project area. With respect to paleontological fossil resource potential, the Lindavista Formation is assigned a moderate sensitivity within the project area. Based on the sensitivity of the affected formation and the proposed excavation depths, the project could result in significant impacts to paleontological resources. To reduce this impact to below a level of significance, excavation within previously undisturbed formations at a depth of 10 or more feet would be monitored by a qualified paleontologist or paleontological monitor. Any significant paleontological resources encountered would be recovered and curated. These requirements are outlined in Section V. Mitigation, Monitoring and Reporting Program, of the Master Mitigated Negative Declaration.

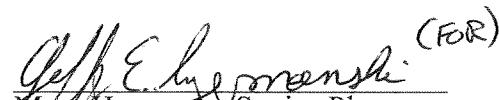
IV. DETERMINATION:

The City of San Diego previously prepared a Master Mitigated Negative Declaration for the project described in the subject block of the attached MND.

Based upon a review of the current project, it has been determined that:

- a. There are no new significant environmental impacts not considered in the previous MND;
- b. No substantial changes have occurred with respect to the circumstances under which the project is undertaken; and
- c. There is no new information of substantial importance to the project.

Therefore, in accordance with Section 15164 of the State CEQA Guidelines this addendum has been prepared. No public review of this addendum is required under CEQA.

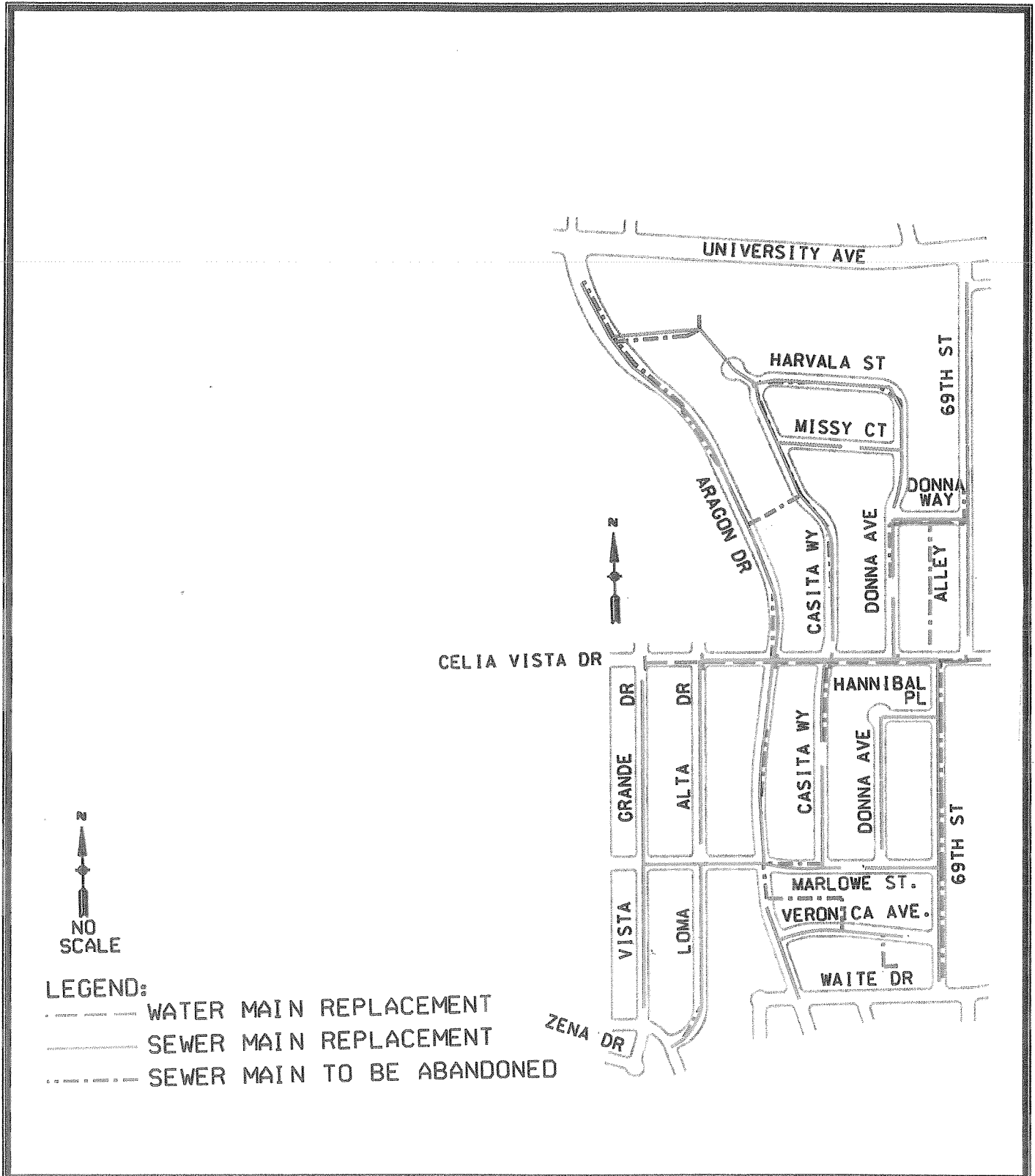
 (FOR)  
\_\_\_\_\_  
Myra Herrmann, Senior Planner  
Development Services Department

June 15, 2007  
Date of Final

Analyst: Jeffrey Szymanski



42



# Location Map

Environmental Analysis Section Project No. 109228

San Diego Water Group 788 F SAN DIEGO • DEVELOPMENT SERVICES

Figure  
99 | Page 1

DISTRIBUTION:

The addendum and the final MND were distributed to:

City of San Diego

Jim Madaffer, District 7

City Attorney, Shirley Edwards (MS 59)

Engineering and Capital Projects Department, Contact: Beth Wales  
(MS 908A)

Others

Mid-City Development Corporation (289)

Eastern Area Planning Committee (302)

SDGE (114)

MTDB (115)

San Diego Natural History Museum (166)

South Coastal Information Center (210)

Save Our Heritage Organization (214)

Ron Christman (215)

Dr. Jerry Schaefer (208A)

San Diego County Archaeological Society (218)

San Diego Archaeological Center (212)

Louie Guassac (215A)

Kumeyaay Cultural Repatriation Committee (225)

Native American Distribution (225A-R Public Notice only)

Barona Group of Capitan Grande Band of Mission Indians

Campo Band of Mission Indians

Cuyapaipe Band of Mission Indians

Inaja and Cosmit Band of Mission Indians

Jamul Band of Mission Indians

La Posta Band of Mission Indians

Manzanita Band of Mission Indians

Sycuan Band of Mission Indians

Viejas Group of Capitan Grande Band of Mission Indians

Mesa Grande Band of Mission Indians

San Pasqual Band of Mission Indians

Santa Ysabel Band of Diegueño Indians

La Jolla Band of Mission Indians

Pala Band of Mission Indians

Pauma Band of Mission Indians

Pechanga Band of Mission Indians

Rincon Band of Luiseno Mission Indians

Los Coyotes Band of Mission Indians



Land Development  
Review Division  
(619) 446-5460

REVISED

## Mitigated Negative Declaration

Project No. 63654  
SCH No. N/A

**SUBJECT: Citywide Pipeline Projects: COUNCIL APPROVAL** to allow for the replacement rehabilitation, relocation, point repair, open trenching, and abandonment of water and/or sewer alignments within the City of San Diego. Proposed work would be located within City of San Diego public rights-of-way (paved streets) including areas devoid of potentially sensitive biological resources. As such, the proposed projects would not be located within or adjacent to the City of San Diego's Multi-Habitat Planning Area (MHPA). The proposed project sites would be located within any community planning areas. Applicants: City of San Diego Engineering and Capital Projects Department (EC&P), City of San Diego Water Department, and City of San Diego Metropolitan Waste Water Division (MWWD).

### UPDATE:

Minor revisions have been made to this Mitigated Negative Declaration subsequent to the distribution of the draft document for public review and comment. Revisions are denoted by ~~strikeout~~ and underline. Subsequent to distribution of the Final MND, an error was detected within the Historical Resources (Archaeology) and Paleontological Resources MMRP. The revised Final MND states the correct MMRP language and is denoted by ~~double-strikeout~~ and double underline.

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

The City of San Diego conducted an Initial Study which determined that the proposed project could have a significant environmental effect in the following area(s): ~~HISTORICAL RESOURCES AND PALEONTOLOGICAL RESOURCES, AND NOISE~~. Subsequent revisions in the project proposal create the specific mitigation identified in Section V. of this Mitigated Negative Declaration. The project as revised now avoids or mitigates the potentially significant environmental effects previously identified, and the preparation of an Environmental Impact Report will not be required.

### IV. DOCUMENTATION:

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

V. MITIGATION, MONITORING AND REPORTING PROGRAM:

The following Mitigation Monitoring and Reporting Programs (MMRP) have recently been revised and updated to incorporate currently protocol and/or field procedures.

GENERAL

The following mitigation measures shall be noted on the submitted construction/grading plans and specification, and included under the heading, "Environmental Mitigation Requirements."

HISTORICAL RESOURCES

I. **Prior to Permit Issuance, ~~Award of Contract or First Preconstruction Meeting or, Bid Opening~~**

A. Land Development Review (LDR) Plan Check

1. Prior to permit issuance or Bid Opening, ~~or after award of the contract, but prior to the first preconstruction meeting, whichever is applicable~~, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Archaeological Monitoring and Native American monitoring, if applicable, have been noted on the appropriate construction documents.

B. Letters of Qualification have been submitted to ADD

1. The applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the archaeological monitoring program, as defined in the City of San Diego Historical Resources Guidelines (HRG). If applicable, individuals involved in the archaeological monitoring program must have completed the 40-hour HAZWOPER training with certification documentation.
2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the archaeological monitoring of the project.
3. Prior to the start of work, the applicant must obtain approval from MMC for any personnel changes associated with the monitoring program.

II. **Prior to Start of Construction**

A. Verification of Records Search

1. The PI shall provide verification to MMC that a site specific records search (1/4 mile radius) has been completed. Verification includes, but is not limited to a copy of a confirmation letter from South Coast Information Center, or, if the search was in-house, a letter-of verification from the PI stating that the search was completed.
2. The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.
3. The PI may submit a detailed letter to MMC requesting a reduction to the ~~one~~ 1/4 mile radius.

## B. PI Shall Attend Precon Meetings

1. Prior to beginning any work that requires monitoring, the Applicant shall arrange a Precon Meeting that shall include the PI, Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified Archaeologist shall attend any grading/excavation related Precon Meetings to make comments and/or suggestions concerning the Archaeological Monitoring program with the Construction Manager and/or Grading Contractor.
  - a. If the PI is unable to attend the Precon Meeting, the Applicant shall schedule a focused Precon Meeting with MMC, the PI, RE, CM or BI, if appropriate, prior to the start of any work that requires monitoring.
2. Acknowledgement of Responsibility for Curation (CIP or Other Public Projects)  
The applicant shall submit a letter to MMC acknowledging their responsibility for the cost of curation associated with all phases of the archaeological monitoring program.
3. Identify Areas to be Monitored  
Prior to the start of any work that requires monitoring, the PI shall submit an Archaeological Monitoring Exhibit (AME) based on the appropriate construction documents (reduced to 11x17) to MMC for approval identifying the areas to be monitored including the delineation of grading/excavation limits. The AME shall be based on the results of a site specific records search as well as information regarding the age of existing pipelines, laterals and associated appurtenances and/or any known soil conditions (native or formation).
4. When Monitoring Will Occur
  - a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.
  - b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This request shall be based on relevant information such as review of final construction documents which indicate conditions such as: age of existing pipe to be replaced, depth of excavation and/or site graded to bedrock, etc., that may reduce or increase the potential for resources to be present.

## III. During Construction

### A. Monitor Shall be Present During Grading/Excavation/Trenching

1. The monitor shall be present full-time during grading/excavation/trenching activities including, but not limited to mainline, laterals, services and all other appurtenances associated with underground utilities as identified on the AME and as authorized by the construction manager. **The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities.**
2. The monitor shall document field activity via the Consultant Site Visit Record (CSV). The CSV's shall be faxed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion**), and in the case of ANY discoveries. The RE shall forward copies to MMC.

3. The PI may submit a detailed letter to CM and/or RE for concurrence and forwarding to MMC during construction requesting a modification to the monitoring program when a field condition such as modern disturbance post-dating the previous trenching activities, presence of fossil formations, or when native soils are encountered may reduce or increase the potential for resources to be present.
- B. Discovery Notification Process
1. In the event of a discovery, the Archaeological Monitor shall direct the contractor to temporarily divert trenching activities in the area of discovery and immediately notify the RE or BI, as appropriate.
  2. The Monitor shall immediately notify the PI (unless Monitor is the PI) of the discovery.
  3. The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC within 24 hours by fax or email with photos of the resource in context, if possible.
- C. Determination of Significance
1. The PI and Native American representative, if applicable, shall evaluate the significance of the resource. If Human Remains are involved, follow protocol in Section IV below.
    - a. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC indicating whether additional mitigation is required.
    - b. If the resource is significant, the PI shall submit an Archaeological Data Recovery Program (ADRP) and obtain written approval of the program from MMC, CM and RE. ~~For pipeline trenching projects only, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D." Impacts to significant resources must be mitigated.~~ ADRP and any mitigation must be approved by MMC, RE and/or CM before ground disturbing activities in the area of discovery will be allowed to resume.
      - (1). Note: For pipeline trenching project only, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."
    - c. If resource is not significant, the PI shall submit a letter to MMC indicating that artifacts will be collected, curated, and documented in the Final Monitoring Report. The letter shall also indicate that that no further work is required.
      - (1). Note: For Pipeline Trenching Projects Only. If the deposit is limited in size, both in length and depth; the information value is limited and is not associated with any other resource; and there are no unique features/artifacts associated with the deposit, the discovery should be considered not significant.
      - (2). Note, for Pipeline Trenching Projects Only: If significance can not be determined, the Final Monitoring Report and Site Record (DPR Form 523A/B) shall identify the discovery as Potentially Significant.

D. Discovery Process for Significant Resources - Pipeline Trenching Projects

The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities including but not limited to excavation for jacking pits, receiving pits, laterals, and manholes to reduce impacts to below a level of significance:

1. Procedures for documentation, curation and reporting
  - a. One hundred percent of the artifacts within the trench alignment and width shall be documented in-situ, to include photographic records, plan view of the trench and profiles of side walls, recovered, photographed after cleaning and analyzed and curated. The remainder of the deposit within the limits of excavation (trench walls) shall be left intact.
  - b. The PI shall prepare a Draft Monitoring Report and submit to MMC via the RE as indicated in Section VI-A.
  - c. The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) the resource(s) encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines. The DPR forms shall be submitted to the South Coastal Information Center for either a Primary Record or SDI Number and included in the Final Monitoring Report.
  - d. The Final Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

IV. **Discovery of Human Remains**

If human remains are discovered, work shall halt in that area and the following procedures set forth in the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5) shall be undertaken:

- A. Notification
  1. Archaeological Monitor shall notify the RE or BI as appropriate, MMC, and the PI, if the Monitor is not qualified as a PI. MMC will notify the appropriate Senior Planner in the Environmental Analysis Section (EAS).
  2. The PI shall notify the Medical Examiner after consultation with the RE, either in person or via telephone.
- B. Isolate discovery site
  1. Work shall be directed away from the location of the discovery and any nearby area reasonably suspected to overlay adjacent human remains until a determination can be made by the Medical Examiner in consultation with the PI concerning the provenience of the remains.
  2. The Medical Examiner, in consultation with the PI, shall determine the need for a field examination to determine the provenience.
  3. If a field examination is not warranted, the Medical Examiner shall determine with input from the PI, if the remains are or are most likely to be of Native American origin.
- C. If Human Remains **ARE** determined to be Native American
  1. The Medical Examiner shall notify the Native American Heritage Commission (NAHC). By law, **ONLY** the Medical Examiner can make this call.

2. The NAHC shall contact the PI within 24 hours or sooner, after Medical Examiner has completed coordination.
3. NAHC shall identify the person or persons determined to be the Most Likely Descendent (MLD) and provide contact information..
4. The PI shall coordinate with the MLD for additional consultation.
5. Disposition of Native American Human Remains shall be determined between the MLD and the PI, IF:

- a. The NAHC is unable to identify the MLD, OR the MLD failed to make a recommendation within 24 hours after being notified by the Commission; OR;
- b. The landowner or authorized representative rejects the recommendation of the MLD and mediation in accordance with PRC 5097.94 (k) by the NAHC fails to provide measures acceptable to the landowner.

D. If Human Remains are **NOT** Native American

1. The PI shall contact the Medical Examiner and notify them of the historic era context of the burial.
2. The Medical Examiner will determine the appropriate course of action with the PI and City staff (PRC 5097.98).
3. If the remains are of historic origin, they shall be appropriately removed and conveyed to the Museum of Man for analysis. The decision for internment of the human remains shall be made in consultation with MMC, EAS, the applicant department and/or Real Estate Assets Department (READ) and the Museum of Man.

V. **Night Work**

A. If night work is included in the contract

1. When night work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
2. The following procedures shall be followed.
  - a. No Discoveries  
In the event that no discoveries were encountered during night work, The PI shall record the information on the CSVN and submit to MMC via the RE via fax by 9am the following morning, if possible.
  - b. Discoveries  
All discoveries shall be processed and documented using the existing procedures detailed in Sections III - During Construction, and IV – Discovery of Human Remains.
  - c. Potentially Significant Discoveries  
If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction shall be followed.
  - d. The PI shall immediately contact the RE and MMC, or by 8AM the following morning to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.



- B. If night work becomes necessary during the course of construction
  - 1. The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
  - 2. The RE, or BI, as appropriate, shall notify MMC immediately.
- C. All other procedures described above shall apply, as appropriate.

## ~~VI. Post Construction~~

- ~~A. Completion of Monitoring Program and Submittal of Draft Monitoring Report~~
  - ~~1. The PI shall submit two copies of the Draft Monitoring Report (even if negative) which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics) to MMC for review and approval within 90 days following the completion of monitoring;~~
    - ~~a. For significant archaeological resources encountered during monitoring, the Archaeological Data Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.~~
    - ~~b. MMC shall return the Draft Monitoring Report to the PI for revision or, for preparation of the Final Report.~~
    - ~~c. Recording Sites with State of California Department of Parks and Recreation~~
      - ~~The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms DPR 523 A/B) any significant or potentially significant resources encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines, and submittal of such forms to the South Coastal Information Center with the Final Monitoring Report.~~
    - ~~d. MMC shall notify the RE or BI, as appropriate, of receipt of the Draft Monitoring Report.~~
  - ~~2. Handling of Artifacts~~
    - ~~a. The PI shall be responsible for ensuring that all cultural remains collected are cleaned and catalogued~~
    - ~~b. The PI shall be responsible for ensuring that all artifacts are analyzed to identify function and chronology as they relate to the history of the area; that faunal material is identified as to species; and that specialty studies are completed, as appropriate.~~
  - ~~3. Curation of artifacts: Deed of Gift and Acceptance Verification~~
    - ~~a. The PI shall be responsible for ensuring that all artifacts associated with the survey, testing and/or data recovery for this project are permanently curated with an appropriate institution. This shall be completed in consultation with EAS and the Native American representative, as applicable.~~
    - ~~b. The PI shall submit the Deed of Gift and catalogue record(s) to MMC for signature by the RE or BI, as appropriate.~~
    - ~~c. The RE or BI, as appropriate shall obtain signature on Deed of Gift and shall return to MMC.~~
    - ~~d. MMC shall return the signed Deed of Gift to the PI.~~
    - ~~e. The PI shall include the Acceptance Verification from the curation institution to MMC with submittal of the Final Monitoring Report.~~

~~B. Final Monitoring Report(s)~~

- ~~1. The PI shall submit two copies of the Final Monitoring Report to MMC (even if negative), within 90 days after approval of the draft report, which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics).~~
- ~~2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.~~

**VI. Post Construction**

**A. Submittal of Draft Monitoring Report**

1. The PI shall submit two copies of the Draft Monitoring Report (even if negative) which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90-days following the completion of monitoring.
  - a. For significant archaeological resources encountered during monitoring, the Archaeological Data Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
  - b. Recording Sites with State of California Department of Parks and Recreation  
The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) any significant or potentially significant resources encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines, and submittal of such forms to the South Coastal Information Center with the Final Monitoring Report.
2. MMC shall return the Draft Monitoring Report to the PI via the RE for revision or, for preparation of the Final Report.
3. The PI shall submit revised Draft Monitoring Report to MMC via the RE for approval.
4. MMC shall provide written verification to the PI of the approved report.
5. MMC shall notify the RE or BI, as appropriate, of receipt of all Draft Monitoring Report submittals and approvals.

**B. Handling of Artifacts**

1. The PI shall be responsible for ensuring that all cultural remains collected are cleaned and catalogued
2. The PI shall be responsible for ensuring that all artifacts are analyzed to identify function and chronology as they relate to the history of the area; that faunal material is identified as to species; and that specialty studies are completed, as appropriate.

**C. Curation of artifacts: Accession Agreement and Acceptance Verification**

1. The PI shall be responsible for ensuring that all artifacts associated with the survey, testing and/or data recovery for this project are permanently curated with an appropriate institution. This shall be completed in consultation with MMC and the Native American representative, as applicable.

2. The PI shall submit the Accession Agreement and catalogue record(s) to the RE or BI, as appropriate for donor signature with a copy submitted to MMC.
3. The RE or BI, as appropriate shall obtain signature on the Accession Agreement and shall return to PI with copy submitted to MMC.
4. The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE or BI and MMC.

## PALEONTOLOGICAL RESOURCES

### **I. Prior to Permit Issuance, ~~Award of Contract or First Preconstruction Meeting~~, or Bid Opening**

- A. Land Development Review (LDR) Plan Check
  1. Prior to permit issuance, ~~or after award of the contract, but prior to the first preconstruction meeting~~, Bid opening whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Paleontological Monitoring have been noted on the appropriate construction documents.
- B. Letters of Qualification have been submitted to ADD
  1. The applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the paleontological monitoring program, as defined in the City of San Diego Paleontology Guidelines.
  2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the paleontological monitoring of the project.
  3. Prior to the start of work, the applicant must obtain approval from MMC for any personnel changes associated with the monitoring program.

### **II. Prior to Start of Construction**

- A. Verification of Records Search
  1. The PI shall provide verification to MMC that a site specific records search has been completed. Verification includes, but is not limited to, a copy of a confirmation letter from San Diego Natural History Museum, other institution or, if the search was in-house, a letter of verification from the PI stating that the search was completed.
  2. The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.
- B. PI Shall Attend Precon Meetings
  1. Prior to beginning any work that requires monitoring, the Applicant shall arrange a Precon Meeting that shall include the PI, Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified paleontologist shall attend any grading/excavation related Precon Meetings to make comments and/or suggestions concerning the Paleontological Monitoring program with the Construction Manager and/or Grading Contractor.

- a. If the PI is unable to attend the Precon Meeting, the Applicant shall schedule a focused Precon Meeting with MMC, the PI, RE, CM or BI, if appropriate, prior to the start of any work that requires monitoring.
2. Acknowledgement of Responsibility for Curation (CIP or Other Public Projects)  
The applicant shall submit a letter to MMC acknowledging their responsibility for the cost of curation associated with all phases of the paleontological monitoring program.
3. Identify Areas to be Monitored  
Prior to the start of any work that requires monitoring, the PI shall submit a Paleontological Monitoring Exhibit (PME) based on the appropriate construction documents (reduced to 11x17) to MMC for approval identifying the areas to be monitored including the delineation of grading/excavation limits. The PME shall be based on the results of a site specific records search as well as information regarding existing known soil conditions (native or formation):
4. When Monitoring Will Occur
  - a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.
  - b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This request shall be based on relevant information such as review of final construction documents which indicate conditions such as: depth of excavation and/or site graded to bedrock, presence or absence of fossil resources, etc., that may reduce or increase the potential for resources to be present.

### III. During Construction

#### A. Monitor Shall be Present During Grading/Excavation/Trenching

1. The monitor shall be present full-time during grading/excavation/trenching activities including, but not limited to mainline, laterals, services and all other appurtenances associated with underground utilities as identified on the PME that could result in impacts to formations with high and moderate resource sensitivity at depths of 10 feet or greater and as authorized by the construction manager **The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities.**
2. The monitor shall document field activity via the Consultant Site Visit Record (CSVSR). The CSVSR's shall be faxed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion**), and in the case of ANY discoveries. The RE shall forward copies to MMC.
3. The PI may submit a detailed letter to CM and/or RE for concurrence and forwarding to MMC during construction requesting a modification to the monitoring program when a field condition such as trenching activities that do not encounter formational soils as previously assumed, and/or when unique/unusual fossils are encountered, which may reduce or increase the potential for resources to be present.

B. Discovery Notification Process

1. In the event of a discovery, the Paleontological Monitor shall direct the contractor to temporarily divert trenching activities in the area of discovery and immediately notify the RE or BI, as appropriate.
2. The Monitor shall immediately notify the PI (unless Monitor is the PI) of the discovery.
3. The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC within 24 hours by fax or email with photos of the resource in context, if possible.

C. Determination of Significance

1. The PI shall evaluate the significance of the resource.
  - a. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC indicating whether additional mitigation is required. The determination of significance for fossil discoveries shall be at the discretion of the PI.
  - b. If the resource is significant, the PI shall submit a Paleontological Recovery Program (PRP) and obtain written approval from MMC. ~~For pipeline trenching projects only, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."~~ Impacts to significant resources must be mitigated before PRP and any mitigation must be approved by MMC, RE, and /or CM before ground disturbing activities in the area of discovery will be allowed to resume.
    - (1). Note: For pipeline trenching projects only, the PI shall implement the Discovery Process for Pipeline trenching projects identified below under "D."
  - c. If resource is not significant (e.g., small pieces of broken common shell fragments or other scattered common fossils) the PI shall notify the RE, or BI as appropriate, that a non-significant discovery has been made. The Paleontologist shall continue to monitor the area without notification to MMC unless a significant resource is encountered.
  - d. The PI shall submit a letter to MMC indicating that fossil resources will be collected, curated, and documented in the Final Monitoring Report. The letter shall also indicate that no further work is required.
    - (1). Note: For Pipeline Trenching Projects Only. If the fossil discovery is limited in size, both in length and depth; the information value is limited and there are no unique fossil features associated with the discovery area, then the discovery should be considered not significant.
    - (2). Note: for Pipeline Trenching Projects Only: If significance can not be determined, the Final Monitoring Report and Site Record shall identify the discovery as Potentially Significant.

D. Discovery Process for Significant Resources - Pipeline Trenching Projects

The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities including but not limited to excavation for jacking pits, receiving pits, laterals, and manholes to reduce impacts to below a level of significance.

1. Procedures for documentation, curation and reporting
  - a. One hundred percent of the fossil resources within the trench alignment and width shall be documented in-situ photographically, drawn in plan view (trench and profiles of side walls), recovered from the trench and photographed after cleaning, then analyzed and curated consistent with Society of Invertebrate Paleontology Standards. The remainder of the deposit within the limits of excavation (trench walls) shall be left intact and so documented.
  - b. The PI shall prepare a Draft Monitoring Report and submit to MMC via the RE as indicated in Section VI-A.
  - c. The PI shall be responsible for recording (on the appropriate forms for the San Diego Natural History Museum) the resource(s) encountered during the Paleontological Monitoring Program in accordance with the City's Paleontological Guidelines. The forms shall be submitted to the San Diego Natural History Museum and included in the Final Monitoring Report.
  - d. The Final Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

#### IV. Night Work

- A. If night work is included in the contract
  1. When night work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
  2. The following procedures shall be followed.
    - a. No Discoveries  
In the event that no discoveries were encountered during night work, The PI shall record the information on the CSVR and submit to MMC via the RE via fax by 9am the following morning, if possible.
    - b. Discoveries  
All discoveries shall be processed and documented using the existing procedures detailed in Sections III - During Construction.
    - c. Potentially Significant Discoveries  
If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction shall be followed.
    - d. The PI shall immediately contact the RE and MMC, or by 8AM the following morning to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.
- B. If night work becomes necessary during the course of construction
  1. The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
  2. The RE, or BI, as appropriate, shall notify MMC immediately.
- C. All other procedures described above shall apply, as appropriate.

#### ~~VI. Post Construction~~

- ~~A. Completion of Monitoring Program and Submittal of Draft Monitoring Report~~
  - ~~1. The PI shall submit two copies of the Draft Monitoring Report (even if negative) which describes the results, analysis, and conclusions of all phases of the~~

- ~~Archaeological Monitoring Program (with appropriate graphics) to MMC for review and approval within 90 days following the completion of monitoring,~~
- ~~a. For significant archaeological resources encountered during monitoring, the Archaeological Data Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.~~
  - ~~b. MMC shall return the Draft Monitoring Report to the PI for revision or, for preparation of the Final Report.~~
  - ~~c. Recording Sites with State of California Department of Parks and Recreation – The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms DPR 523 A/B) any significant or potentially significant resources encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines, and submittal of such forms to the South Coastal Information Center with the Final Monitoring Report.~~
  - ~~d. MMC shall notify the RE or BI, as appropriate, of receipt of the Draft Monitoring Report.~~

## ~~2. Handling of Artifacts~~

- ~~a. The PI shall be responsible for ensuring that all cultural remains collected are cleaned and catalogued~~
- ~~b. The PI shall be responsible for ensuring that all artifacts are analyzed to identify function and chronology as they relate to the history of the area; that faunal material is identified as to species; and that specialty studies are completed, as appropriate.~~

## ~~3. Curation of artifacts: Deed of Gift and Acceptance Verification~~

- ~~a. The PI shall be responsible for ensuring that all artifacts associated with the survey, testing and/or data recovery for this project are permanently curated with an appropriate institution. This shall be completed in consultation with EAS and the Native American representative, as applicable.~~
- ~~b. The PI shall submit the Deed of Gift and catalogue record(s) to MMC for signature by the RE or BI, as appropriate.~~
- ~~c. The RE or BI, as appropriate shall obtain signature on Deed of Gift and shall return to MMC.~~
- ~~d. MMC shall return the signed Deed of Gift to the PI.~~
- ~~e. The PI shall include the Acceptance Verification from the curation institution to MMC with submittal of the Final Monitoring Report.~~

## ~~B. Final Monitoring Report(s)~~

- ~~1. The PI shall submit two copies of the Final Monitoring Report to MMC (even if negative), within 90 days after approval of the draft report, which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics).~~
- ~~2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.~~

## VI. Post Construction

### A. Completion of Monitoring Program and Submittal of Draft Monitoring Report

1. The PI shall submit two copies of the Draft Monitoring Report (even if negative) which describes the results, analysis, and conclusions of all phases of the Paleontological Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90-days following the completion of monitoring.
  - a. For significant paleontological resources encountered during monitoring, the Paleontological Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
  - b. MMC shall return the Draft Monitoring Report to the PI via the RE for revision or, for preparation of the Final Report.
  - c. Recording Sites with the San Diego Natural History Museum  
The PI shall be responsible for recording (on the appropriate forms) any significant or potentially significant fossil resources encountered during the Paleontological Monitoring Program in accordance with the City's Paleontological Guidelines, and submittal of such forms to the San Diego Natural History Museum with the Final Monitoring Report.
  - d. MMC shall notify the RE or BI, as appropriate, of receipt of the Draft Monitoring Report.
2. Handling of Fossil Remains
  - a. The PI shall be responsible for ensuring that all fossil remains collected are cleaned and catalogued
  - b. The PI shall be responsible for ensuring that all fossils are analyzed to identify function and chronology as they relate to the history of the area; that faunal material is identified as to species; and that specialty studies are completed, as appropriate.
3. Curation of fossils: Deed of Gift and Acceptance Verification
  - a. The PI shall be responsible for ensuring that all fossils associated with the monitoring program for this project are permanently curated with an appropriate institution.
  - b. The PI shall submit the Deed of Gift and catalogue record(s) to MMC for signature by the RE or BI, as appropriate.
  - c. The RE or BI, as appropriate shall obtain signature on Deed of Gift and shall return to MMC.
  - d. MMC shall return the signed Deed of Gift to the PI.
  - e. The PI shall include the Acceptance Verification from the curation institution to MMC with submittal of the Final Monitoring Report.

### B. ~~Final Monitoring Report(s)~~

~~The PI shall submit two copies of the Final Monitoring Report to MMC within 90 days (even if negative), which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics).~~



B. Final Monitoring Report(s)

1. The PI shall submit two copies of the Final Monitoring Report to MMC (even if negative), within 90-days after approval of the draft report, which describes the results, analysis, and conclusions of the Paleontological Monitoring Program (with appropriate graphics).
2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.

VI. PUBLIC REVIEW DISTRIBUTION:

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

Federal

- U.S. Border Patrol (22)
- MCAS Miramar (13)
- Jose de Lona, Real Estate Division, Navy (8)
- Jennifer Weilbacher, Realty Specialist, Navy (8a)
- Marine Corps Recruit Depot (14)

State of California

- Coastal Commission (48)
- Department of Parks and Recreation (40)
- Caltrans (31)
- Regional Water Quality Control Board (44)

San Diego County

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

City of San Diego

- Mayor's Office (91)
- Councilmember Peters, District 1
- Councilmember Zucchet, District 2
- Councilmember Atkins, District 3
- Councilmember Young, District 4
- Councilmember Maienschein, District 5
- Councilmember Frye, District 6
- Councilmember Madaffer, District 7
- Councilmember Inzunza, District 8
- Development Services Department
- Planning Department
- Clairemont Community Service Center (CSC) (MS 97)
- Mid City CSC (MS 94)
- Navajo CSC (MS 95)
- Carmel Valley CSC (MS 101)
- Central CSC

Rancho Bernardo CSC (MS 90)  
San Ysidro CSC (MS 93)  
Engineering and Capital Projects (MS 908A)  
    Dick Rol, Senior Environmental Planner  
    Nhon Dong, Project Engineer  
    Mohsen, Maali, Project Engineer  
    Collins Solomon, Project Engineer  
    Paul Hanna, Project Engineer  
    Riyadh Makani, Project Engineer  
Metropolitan Wastewater Division (MWWDD), Richard Grunow  
Water Department, Mike Gonzalez  
General Services Department, Anthony Ragine  
Mission Bay Park Committee (320)  
Peninsula Community Service Center (389)  
Library, Gov't documents (81)  
Parks and Recreation Department (83)

Others

SD Unified School (125)  
SD City Schools (132)  
SD Community College (133)  
Community Planning Committee (194)  
SDGE (144)  
MTDB (115)  
SD Transit (112)  
Balboa Park Committee (226)  
Otay Mesa Nestor Planning Committee (228)  
Otay Mesa Planning Committee (235)  
Clairemont Mesa Planning Committee (248)  
Greater Golden Hill Planning Committee (259)  
Hillcrest Business District (262)  
Serra Mesa Planning Group (263A)  
Kearny Mesa Town Council (263)  
Linda Vista Community Planning Committee (267)  
La Jolla Community Planning Association (275)  
La Jolla Shores Association (272)  
Balboa Park Committee (226A)  
Presido Park Council (MS 93)  
College Area Community Council (456)  
City Heights Area Planning Committee (287)  
Mid City Development Corporation (289)  
Kensington Talmadge Planning Committee (290)  
Normal Heights Community Planning Committee (291)  
Eastern Area Planning Committee (302)  
Midway Community Planning Advisory Committee (307)  
Mira Mesa Community Planning Group (310)  
Mission Beach Precise Planning Board (325)

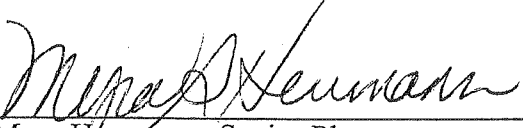
Mission Hills Association (327)  
 Mission Valley Unified Planning Organization (331)  
 Navajo Community Planners Inc (336)  
 Carmel Mountain Ranch Community Council (344)  
 Carmel Valley Community Planning Board (350)  
 Del Mar Mesa Community Planning Board (361)  
 Greater North Park Planning Committee (363)  
 Gaslamp Quarter Council (239)  
 Barreo Station (241)  
 Harborview Community Council (246)  
 Centre City Development Corporation (MS 510)  
 Ocean Beach Planning Board (367)  
 Pacific Beach Community Planning Committee (345)  
 Old Town Community Planning Committee (368)  
 San Diego Unified Port Authority (109)  
 Peninsula Community Planning Board (390)  
 Torrey Hills Community Planning Group (444A)  
 Rancho Penasquitos Planning Board (380)  
 Rancho Bernardo Community Planning Board (400)  
 Sabre Springs Planning Group (406B)  
 Sabre Springs Community Planning Group (407)  
 San Dieguito Planning Board (412)  
 San Pasqual/Lake Hodges Planning Group (426)  
 Southeastern San Diego Planning Committee (449)  
 SESD Community Planning Group (449A)  
 Terasanta Community Council (462)  
 Uptown Planners (498)  
 Murphy Canyon Community Council (463)  
 Torrey Pines Community Planning Group (469)  
 University City Community Planning (480)  
 San Ysidro Planning and Development Group (433)  
 Scripps Ranch Community Planning Group (437)  
 Miramar Ranch North Planning Committee (439)  
 Skyline Paradise Hills Planning Committee (443)  
 Town Council Presidents Association (197)  
 Community Planners Council (198)  
 San Diego Natural History Museum (166)  
 SD Historical Society (211)  
 South Coastal Information Center, San Diego State University (210)  
 Save Our Heritage Organisation (214)  
 San Diego County Archaeological Society, Inc. (218)  
 San Diego Archaeological Center (212)  
 Dr. Jerry Schaefer (209)  
 Ron Christman (215)  
 Louie Guassac (215A)  
 Kumeyaay Cultural Repatriation Committee (225)

- Barona Group of Capitan Grande Band of Mission Indians\* (225A)
  - Campo Band of Mission Indians\* (225B)
  - Cuyapaibe Band of Mission Indians\* (225C)
  - Inaja and Cosmit Band of Mission Indians\* (225D)
  - Jamul Band of Mission Indians\* (225E)
  - Posta Band of Mission Indians\* (225F)
  - Manzanita Band of Mission Indians\* (225G)
  - Sycuan Band of Mission Indians\* (225H)
  - Viejas Group of Capitan Grande Band of Mission Indians\* (225I)
  - Mesa Grande Band of Mission Indians\* (225J)
  - San Pasqual Band of Mission Indians\* (225K)
  - Santa Ysabel Band of Diegueño Indians\* (225L)
  - La Jolla Band of Mission Indians\* (225M)
  - Pala Band of Mission Indians\* (225N)
  - Pauma Band of Mission Indians\* (225O)
  - Pechanga Band of Mission Indians\* (225P)
  - Rincon Band of Luiseno Mission Indians\* (225Q)
  - Los Coyotes Band of Mission Indians\* (225R)
- \*PUBLIC NOTICE ONLY

VII. RESULTS OF PUBLIC REVIEW:

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

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

  
\_\_\_\_\_  
Myra Herrmann, Senior Planner  
Development Services Department

March 14, 2005  
Date of Draft Report

April 21, 2005  
Date of Final Report

May 24, 2005  
Date of Revised Final Report

Analyst: K. Forburger

City of San Diego  
Development Services Department  
LAND DEVELOPMENT REVIEW DIVISION  
1222 First Avenue, Mail Station 501  
San Diego, CA 92101  
(619) 446-5460

INITIAL STUDY  
PTS No. 63654

**SUBJECT:** Citywide Pipeline Projects: COUNCIL APPROVAL to allow for the replacement rehabilitation, relocation, point repair, open trenching, and abandonment of water and/or sewer alignments within the City of San Diego. Proposed work would be located within City of San Diego public rights-of-way (paved streets) including areas devoid of potentially sensitive biological resources. As such, the proposed projects would not be located within or adjacent to the City of San Diego's Multi-Habitat Planning Area (MHPA). The proposed project sites would be located within any community planning areas. Applicants: City of San Diego Engineering and Capital Projects Department (EC&P), City of San Diego Water Department, and City of San Diego Metropolitan Waste Water Division (MWWD).

I. PURPOSE AND MAIN FEATURES:

The proposed project would allow for the replacement rehabilitation, relocation, point repair, new trenching, and abandonment of water and/or sewer alignments where the entire construction footprint, including staging areas and other areas (such as access) necessary for temporary construction use, would be located within the City of San Diego public right-of-way (PROW), public easements, including areas devoid of potentially sensitive biological resources. Proposed projects would not be located adjacent or within close proximity to the City of San Diego's Multi-Habitat Planning Area (MHPA) where construction activities and/or associated noise would exceed 60 dBA hourly LEQ at the edge of any protected species occupied MHPA. The proposal may include planned pipeline construction within private easements from the PROW to the service connection. A signed agreement between the City and the property owner would be required for work conducted on private property. The areas proposed for pipeline construction would be devoid of potentially sensitive biological resources.

Projects to be included in the analysis contained herein would consist of Sewer and/or Water Group Jobs, Trunk Sewers, large diameter water pipeline projects, manholes, and other necessary appurtenances. All equipment would be staged in existing right-of-ways adjacent to the proposed work area. During the construction phase of the project, anticipated work hours would occur during the daytime, Monday through Friday. The contractor would comply with the requirements described in the *Standard Specifications for Public Works Construction*, and California Department of Transportation *Manual of Traffic Controls for Construction and Maintenance Work Zones*. If the Average Daily Traffic (ADT) within the proposed project's vicinity is 10,000 ADT or greater, a traffic control plan would be prepared and implemented in accordance with the *City of San Diego Standard Drawings Manual of Traffic Control for Construction and Maintenance Work Zones*. For proposals subject to 10,000 ADT or less, traffic control may be managed through shop drawings during construction. Construction methods to be employed would consist of, but not be limited to:

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

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

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

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

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

The following near term projects have been reviewed by the City of San Diego Development Services Department (DSD) for compliance with the Land Development Code and as such, have been determined to be exempt from obtaining a Site Development Permit and Coastal Development Permit. Furthermore, the projects would not result in any significant effects to the environment or pose significant risk to public health and safety. The projects would involve excavations within areas having a high potential to yield archaeological as well as paleontological resources. Mitigation would be required to reduce potentially adverse effects to archaeological and paleontological resources during construction activities. In addition, the contract documents would include specific storm water pollution control and management requirements in compliance with the Federal Clean Water Act, Municipal Storm Water/National Pollutant Discharge Elimination System Permit. Pipeline projects which are located within the California Coastal Commission (CCC) jurisdiction may require CCC approval and issuance of a State Coastal Development Permit.

Sewer Group Job 822, Project Number: 45829

The project would consist of 6,930 total linear feet of sewer pipes which includes approximately: 2,710 feet of replacement in place (2,710 feet is to be replaced deeper than existing), 4,220 feet of new alignment, and 4,480 feet of abandonment. The proposed depth of the sewer alignment varies from seven-feet to 18-feet. The project would also consist of 2,692 total linear feet of water pipes. The proposed project would be located within the public right-of-way of Imperial Avenue, Ocean View Boulevard, T Street., 45th Street, West Street, 46th Street, and a portion of the alley between 45th St, and West Street. The project alignment is located within the Southeastern San Diego Community Plan area (Figure 1).

Sewer and Water Group Job 772, Project Number: 46878

The proposed project would consist of the replacement of approximately 1,700 linear feet of sewer main and 660 linear feet of water main, approximately 5,047 linear feet of sewer abandonment, and the addition of 3,900 linear feet of new sewer main. The proposed project alignment is located within the public rights-of-way of Dick Street, Collier Avenue, Adams Avenue, 50<sup>th</sup> Street, Altadena Avenue, and 51<sup>st</sup> Street within the Kensington/Talmadge Community Planning area (Figure 2).

Sewer Group Job 783, Project Number: 47736

The proposed project would consist of the replacement of approximately 12,137 linear feet of sewer main, installation of 2,061 linear feet of new sewer main, and rehabilitation of 245 linear feet of existing sewer main. The proposed project alignment is located within the public rights-of-way of 69<sup>th</sup> Street, Mohawk Street, 70<sup>th</sup> Street, El Cajon Boulevard, 72<sup>nd</sup> Street, Harbinson Avenue, Amherst Avenue, and 73<sup>rd</sup> Street in the College Area Community Plan area (Figure 3).

Sewer and Water Group Job 754, Project Number: 47965

The proposed project would consist of the replacement of approximately 5,350 linear feet of existing sewer main, addition of approximately 1,669 linear feet of new sewer main, and the replacement of approximately 167 linear feet of existing water main. The proposed project alignment is located within the public rights-of-way of Strand Way, Morena Boulevard, Sioux Avenue, Kenosha Avenue, Moraga Avenue, and Elsinore Place within the Clairemont Mesa plan area (Figure 4).

Sewer and Water Group 796, Project Number: 52553

The proposed project would consist of the replacement of 13, 835 linear feet of existing six-inch vitrified clay sewer main with eight-inch PVC pipe. The majority of the proposed work would be replace-in-place. The proposal includes the abandonment of 3,340 liner feet of existing sewer. Approximately 1,230 linear feet of water main is proposed for replacement. The proposed project alignment is located within the public rights-of-way of Livingstone Street, 69<sup>th</sup> Street North, Nassau Drive, Aragon Drive, Suffolk Drive, Rockland Street, Waite Drive, Racine Drive, Zena Drive, Meridian Avenue, Lemarand Avenue, and 54<sup>th</sup> Street within the Eastern Area Community Planning area (Figure 5).

LaJolla/Pacific Beach Trunk Sewer Number 3, Project Number: 39430

The proposed project would consist of the replacement of approximately 6,890 linear feet of 33-inch trunk sewer and 27-inch trunk sewer. Open trench method of construction would be employed for installing the new trunk sewer mains. Due to the new alignment, 95 percent of the pipeline would be located in new trenches and five percent would be located in an existing trench. The proposed project alignment is located within the public right-of-way of Balboa Avenue, Olney Street, Thomas Avenue, Noyes Street, Morrell Street, Pacific Beach Drive, Honeycutt Street, Fortuna Avenue, Sequoia Street, Crown Point Drive, and La Playa Avenue within the Pacific Beach Community Planning area (Figure 6).

Subsequent Pipeline Project Review (Long Term)

Future applications for the replacement rehabilitation, relocation, point repair, open trenching, and abandonment of water and/or sewer pipeline alignments as indicated in the Purpose and Main Features discussion of the Initial Study within the City of San Diego would be reviewed for potential impacts and consistency with this Mitigated Negative Declaration. Where it can be determined that the project is consistent with this Mitigated Negative Declaration, if the project alignment and/or staging areas does not impact potentially sensitive biological resources, and no additional potentially significant impacts would result pursuant to Section 15162 of the State of California Environmental Quality Act (CEQA), an addendum to this Mitigated Negative Declaration would be prepared. The addendum would discuss the specifics of each project including the

location, environmental setting, and construction methods. Where the projects are inconsistent with the assumption in this environmental document or in the event an impact would result, a determination of environmental document to be prepared would be made based on completion of an Initial Study. Proposed pipeline projects which are less than one mile in length would continue to qualify for a Statutory Exemption pursuant to Section 15282 (1) "Pipeline" of the State CEQA Guidelines.

## II. ENVIRONMENTAL SETTING:

The proposed project alignments would be located within various public rights-of-way within the City of San Diego. All proposed alignments would be located outside of Environmentally Sensitive Lands (ESL) and the Multi-Habitat Planning Area (MHPA). Proposed alignments may be located within the State Coastal Zone and/or within the City of San Diego Coastal Zone. Surrounding land uses within the proposed project vicinities may include, but not be limited to, single-family residential, multi-family residential, commercial, industrial, parking lots, and public rights-of-way.

## III. ENVIRONMENTAL ANALYSIS: See attached Initial Study checklist.

## IV. DISCUSSION:

The following environmental issues were analyzed and determined to be significant: **HISTORICAL RESOURCES (ARCHAEOLOGY), PALEONTOLOGICAL RESOURCES, AND NOISE**

### HISTORICAL RESOURCES (ARCHAEOLOGY)

San Diego County is known for intense and diverse prehistoric occupation and important archaeological resources. These areas have been inhabited by various cultural groups spanning 10,000 years or more. Camp sites and villages have been recorded from Del Mar to Tijuana. Additionally, previously recorded archaeological sites consisting of both prehistoric and/or historic resources have been identified within a one-mile radius of the proposed project alignments. Based on this information, there is a potential that buried archaeological resources could be impacted during excavation for new and/or deeper trenches. Therefore, trenching activities could result in significant impacts to archaeological resources.

To reduce this impact to below a level of significance, a preconstruction record search would be required and utilized to determine areas of high to moderate resource potential. The predetermined areas would be monitored by a qualified archaeologist or archaeological monitor. Any cultural resources encountered during monitoring would be analyzed for significance and curated at an appropriate institution. If encountered resources are determined to be significant, a Research Design and Data Recovery Program would be prepared and implemented. These requirements are outlined in Section V., Mitigation Monitoring and Reporting Program, of the Mitigated Negative Declaration.

### PALEONTOLOGICAL RESOURCES

The geologic formations which could underlie the proposed project alignments consist of the formations which are assigned "High" and "Moderate" resource sensitivities. Based on the sensitivity of the affected formation and the proposed excavation depths, the project could result in significant impacts to paleontological resources. To reduce this



formations at a depth of 10 or more feet would be monitored by a qualified paleontologist. If paleontological deposits are discovered, excavation would temporarily cease to allow evaluation, recordation, and recovery of material. These requirements are outlined in Section V. Mitigation, Monitoring and Reporting Program, of the Mitigated Negative Declaration.

The following environmental issues were analyzed and determined to be less than significant: **WATER QUALITY, HEALTH AND SAFETY/HAZARDOUS MATERIALS, AND NOISE.**

#### WATER QUALITY

Best Management Practices (BMPs) are required during construction activities which would include (but is not limited to) features such as storm drain inlet protection, catch basin inlet protection, stabilized construction entrance/exit areas, and silt fencing. Storm drain inlet protection consisting of gravel bags and filter fabric such as polyethylene or polypropylene would be placed around curb inlets. Catch basin inlet protection would be specified in paved areas by using filter fabric over catch basin grates. Specifications for stabilized construction entrance/exit areas would be provided to minimize transport of sediment off-site. Silt fences and fiber rolls would be specified to minimize surface transport of sediments. The construction contractor would be required to prepare and use a Sewer Spill Prevention and Response Plan. The implementation of BMP's as stated in the contract documents in accordance with the City's Stormwater Regulations would reduce water quality impacts to a below level of significance.

#### HEALTH AND SAFETY/HAZARDOUS MATERIALS

The County of San Diego Department of Environmental Health (DEH) Hazardous Materials Establishment Listing database identifies potentially hazardous material release sites throughout the City of San Diego. As a result, a DEH website search was conducted for the projects listed above resulting in "open" sites along several alignments. As such, trenching activities in this area could possibly encounter some petroleum-contaminated soils. Therefore, the proposed projects would include language within specifications and Contract Documents which address the handling of hazardous materials. Compliance with the County (DEH) Hazardous Materials permitting requirements and an approved health and safety plan would reduce potentially significant impacts for the identified (near term) and future (long term) projects to below a level of significance; therefore, no mitigation is required.

#### NOISE

Noise is generally defined as unwanted or annoying sound that is typically associated with human activity and which interferes with or disrupts normal activities. Although exposure to high noise levels has been demonstrated to cause hearing loss, the principal human response to environmental noise is annoyance. The response of individual to similar noise events is diverse and influenced by the type of noise, the perceived importance of the noise, and its appropriateness in the setting, time of day, the type of activity emitting the noise, and the sensitivity of the individual hearing the sound. Sound levels are usually measured and expressed in units of decibels (dB). Community Noise Equivalent Level (CNEL) is defined as an average sound level during a 24-hour period. CNEL results form the summation of the hourly average noise levels (Leq), which

includes the addition of five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m., and a ten decibel addition to nighttime noise produced from 10:00 p.m. to 7:00 a.m. Leq is an average noise level based on the average energy content of sound rather than the average sound pressure level. CNEL recognizes that noise annoyance is related to duration, how often the noise is present, how long it persists, and when it occurs.

Potential noise from construction of the pipelines projects may affect land uses along the proposed alignments. The uses included, but not limited to, residential, commercial, schools, and churches, all of which would be subject to short-term construction noise associated with the heavy equipment used during the construction operation. This effect would be short-term in nature because the noise would be associated with construction activities, which would vary along the proposed alignments as different construction activities occur. A noise permit would be required from the Noise Abatement and Control Administrator for construction work to be conducted during the evening hours pursuant to Municipal Code Section 59.5.0404. Because the construction noise would be short-term and construction activities would comply with the City of San Diego Noise Ordinance, potential noise impacts are considered insignificant.

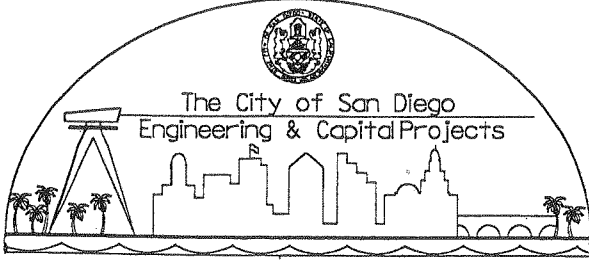
#### V. RECOMMENDATION:

On the basis of this initial evaluation:

- The proposed project would not have a significant effect on the environment, and a NEGATIVE DECLARATION should be prepared.
- Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described in Section IV above have been added to the project. A MITIGATED NEGATIVE DECLARATION should be prepared.
- The proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT should be required.

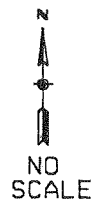
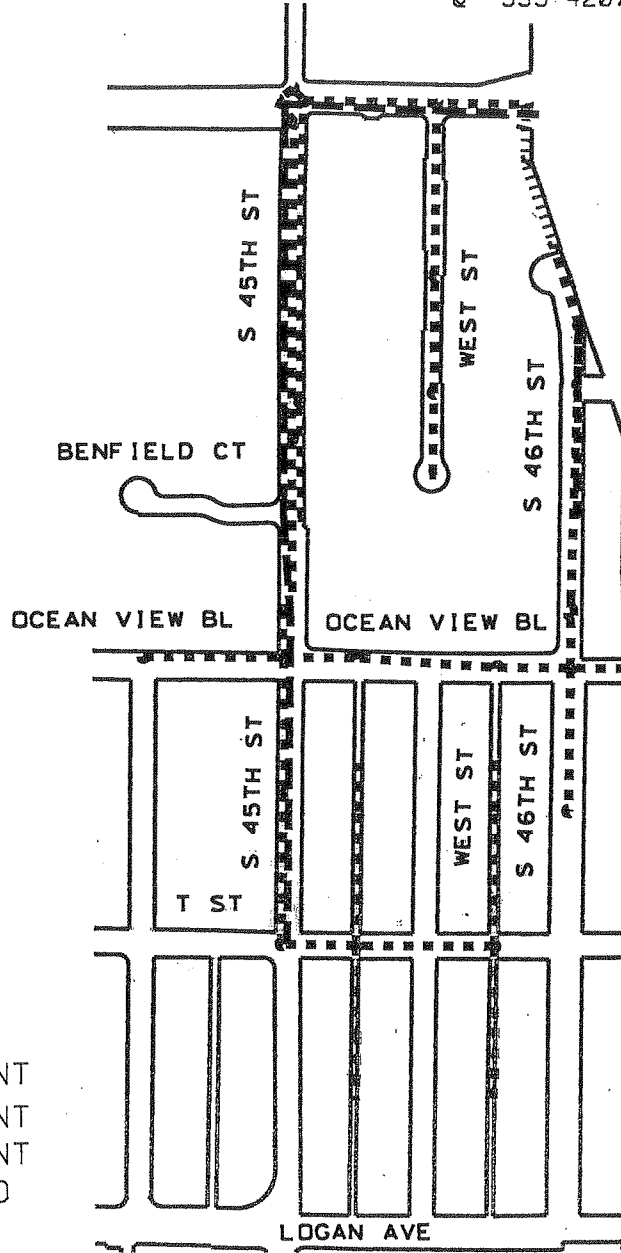
PROJECT ANALYST: K. Forburger

- Attachments:
1. Figure 1: Location Map- Sewer Group Job 822
  2. Figure 2: Location Map- Sewer and Water Group Job 772
  2. Figure 3: Location Map- Sewer Group Job 783
  3. Figure 4: Location Map- Sewer and Water Group Job 754
  5. Figure 5: Location Map- Sewer and Water Group 796
  6. Figure 6: Location Map- La Jolla/Pacific Beach Trunk Sewer Number 3
  7. Initial Study Checklist



SENIOR PUBLIC  
 INFORMATION OFFICER  
 SUE BLACKMAN  
 @ 533-4207

WATER & SEWER MAIN  
 REPLACEMENT  
 GROUP 822  
 LOCATION MAP



LEGEND:

- WATER MAIN REPLACEMENT
- ..... SEWER MAIN REPLACEMENT
- · - · - SEWER MAIN ABANDONMENT
- ..... SEWER MAIN PRIVATIZED

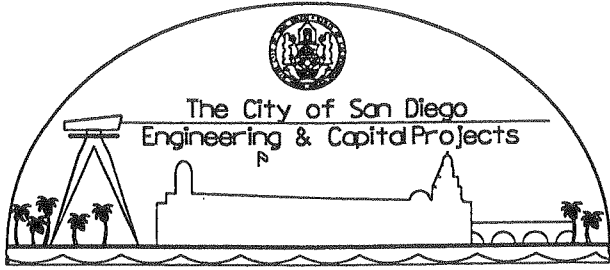
05-19-03 JWL

Sewer Group Job 822

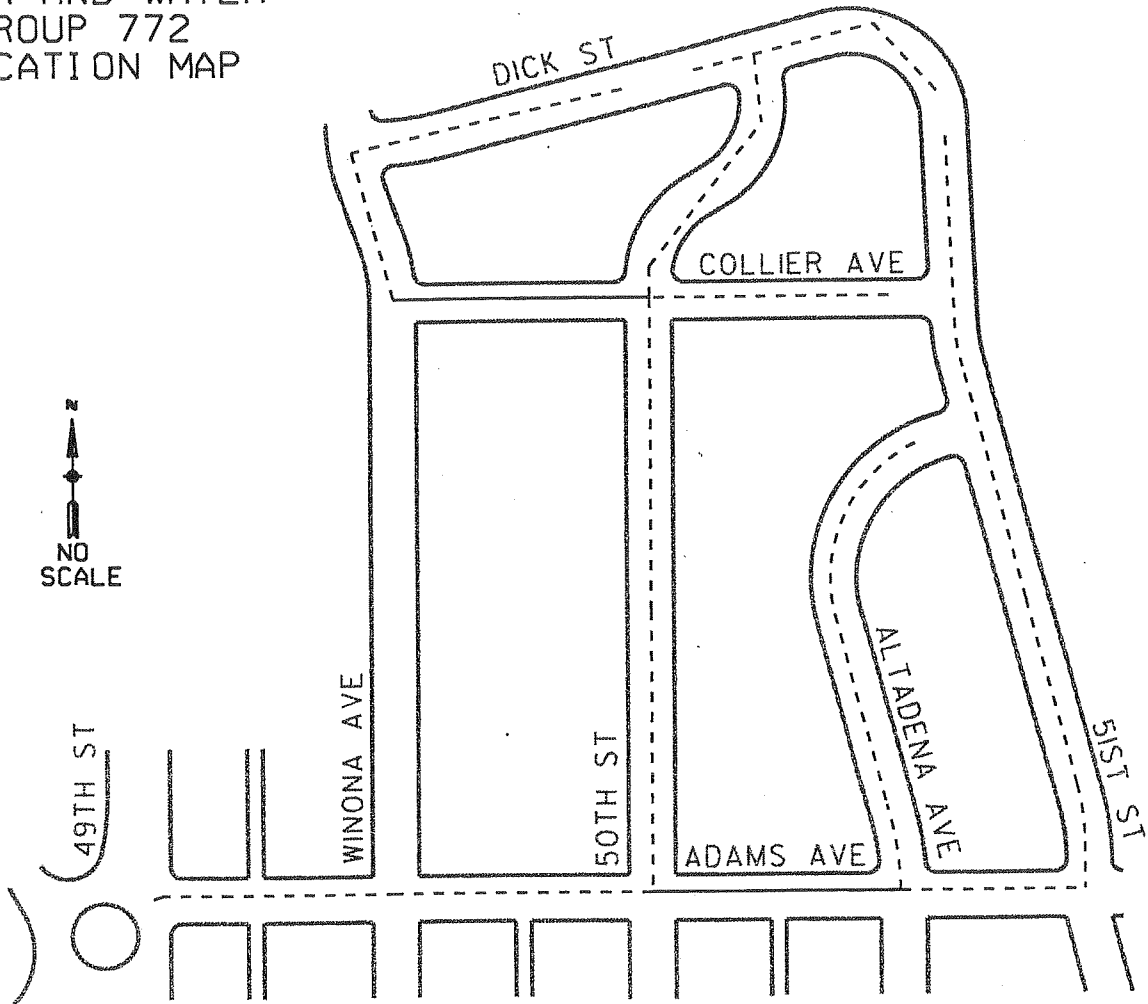


**Location Map**

Mitigated Negative Declaration  
 Environmental Analysis Section Project No. 45829  
 Water Group 788  
 CITY OF SAN DIEGO · DEVELOPMENT SERVICES



SEWER AND WATER  
GROUP 772  
LOCATION MAP



LEGEND:

- SEWER MAIN REPLACEMENT
- WATER & SEWER MAIN REPLACEMENT

Sewer and Water Group Job 772



Location Map

Appendix A - Mitigated Negative Declaration  
Environmental Analysis Section Project No. 46878  
Sewer and Water Group 772

CITY OF SAN DIEGO · DEVELOPMENT SERVICES

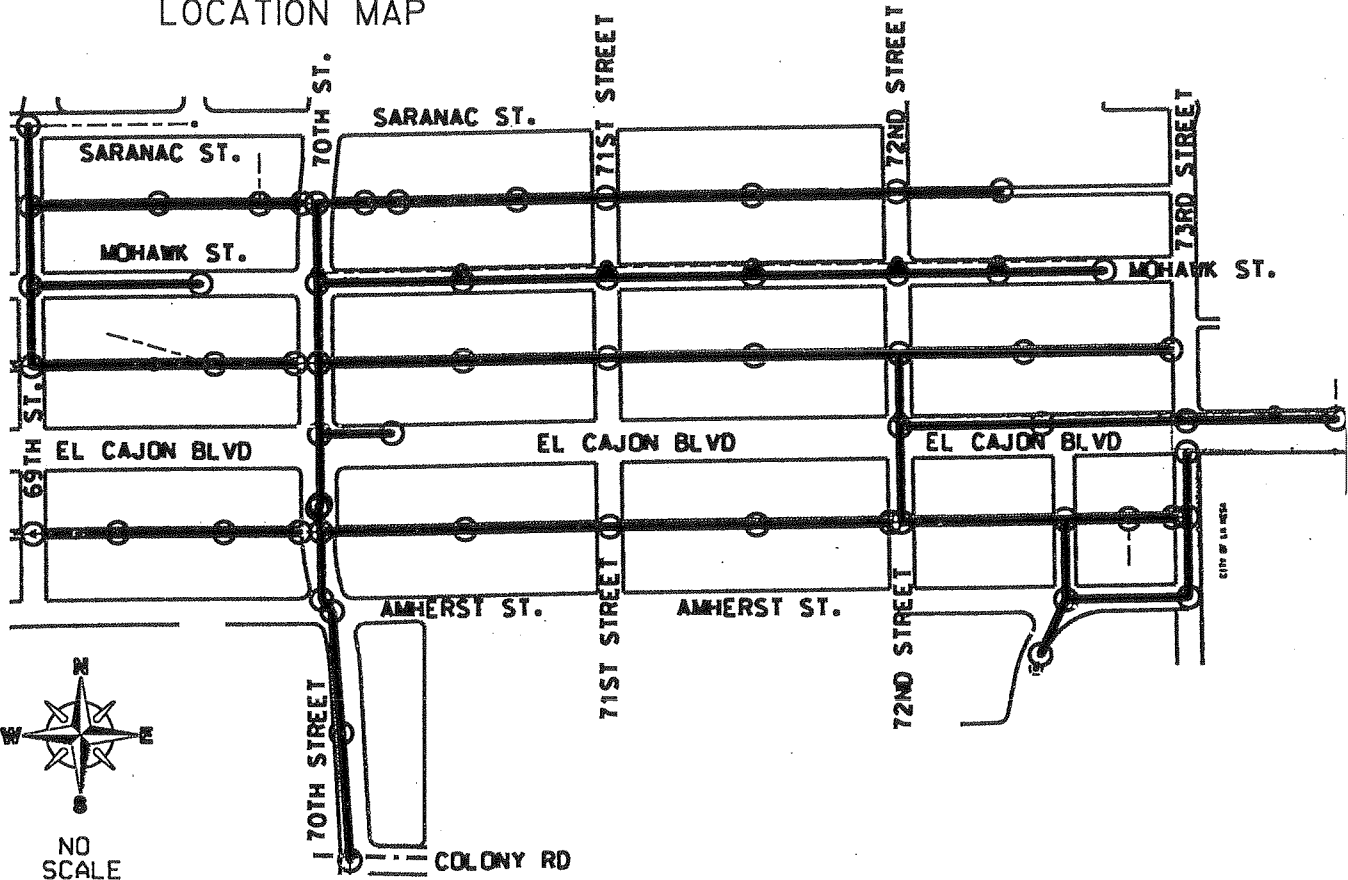
Figure  
126 | Page

2



PUBLIC INFORMATION OFFICER  
 SUE BLACKMAN  
 (619) 533-4207  
 SBlackman@SanDiego.Gov

GROUP JOB 783  
 SEWER MAIN REPLACEMENT  
 LOCATION MAP



LEGEND:

- PROPOSED SEWER MAINS & MANHOLES
- EXISTING SEWER MAINS & MANHOLES
- PROPOSE TO ABANDON SEWER MAINS & MANHOLES

Sewer Group Job 783



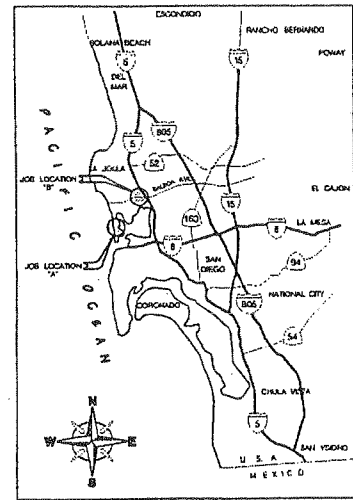
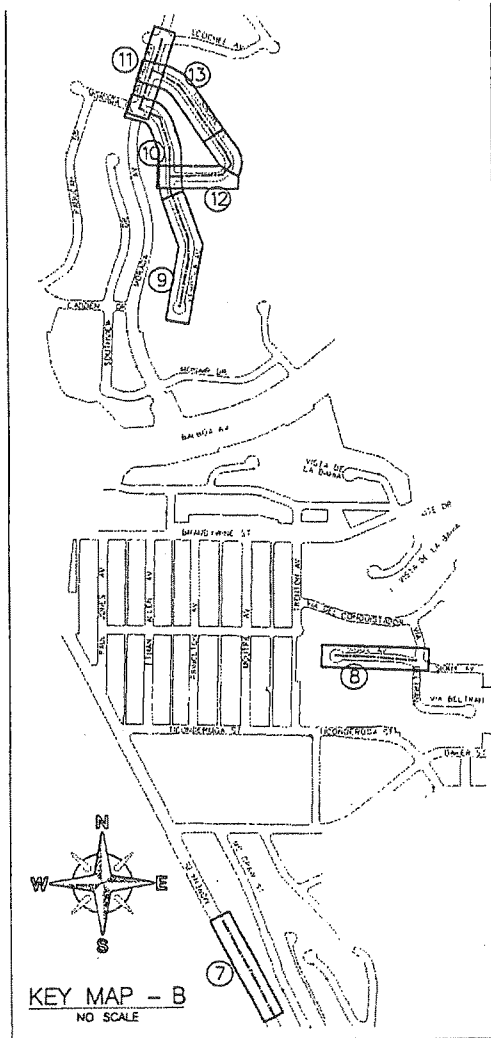
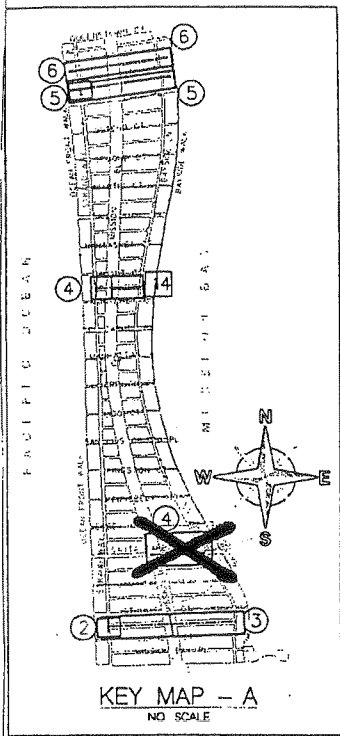
Location Map

Environmental Analysis Section Project No. 47736  
 CITY OF SAN DIEGO • DEVELOPMENT SERVICES

Figure

127 | Page

3

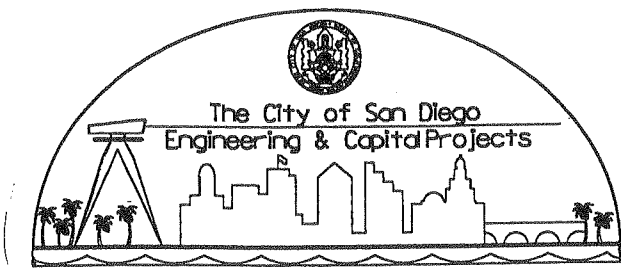


Sewer and Water Group Job 754

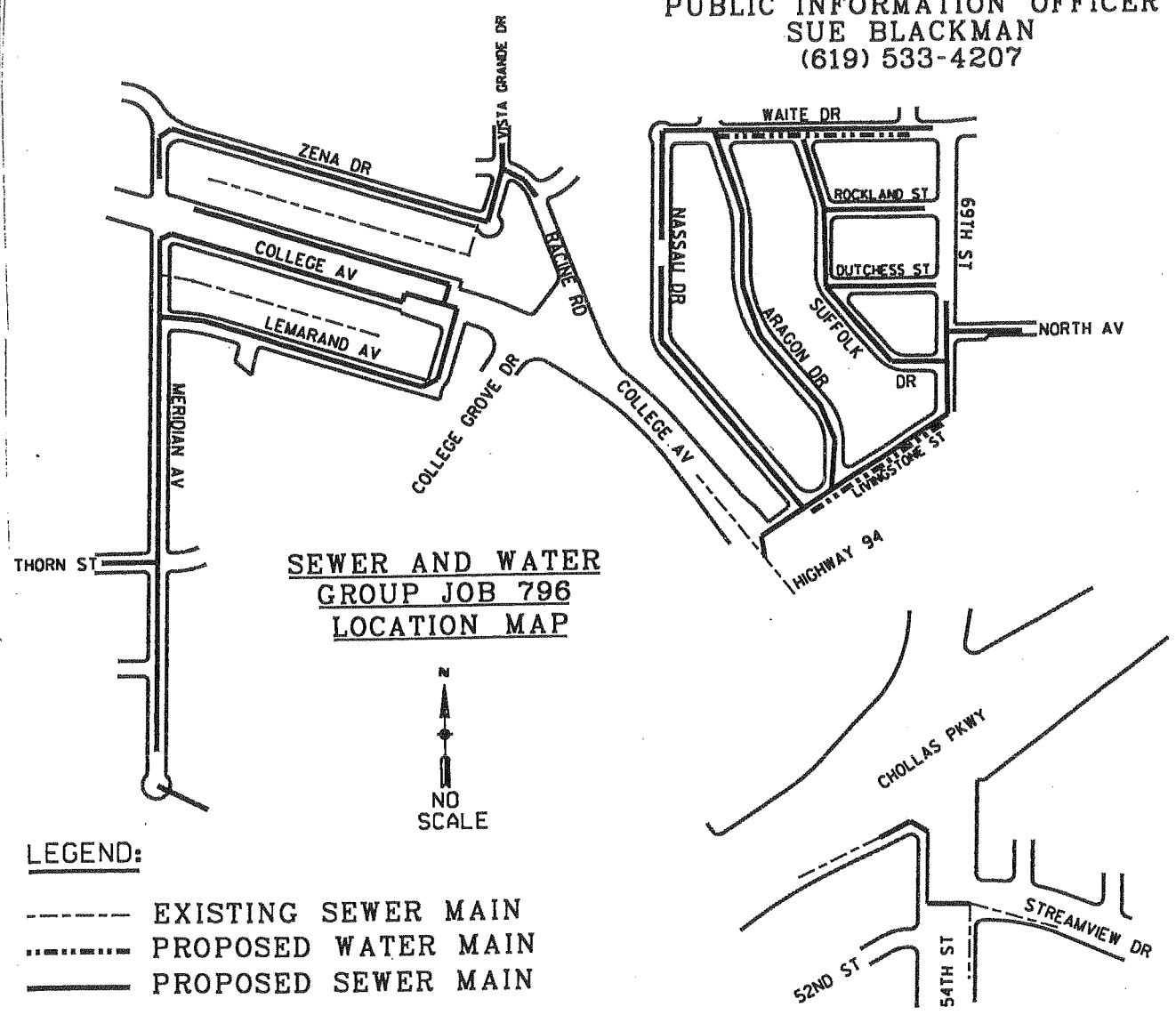


# Location Map

Appendix A - Mitigated Negative Declaration  
 Environmental Analysis Section Project No. 47965  
 Sewer and Water Group 754  
 CITY OF SAN DIEGO • DEVELOPMENT SERVICES



PUBLIC INFORMATION OFFICER  
SUE BLACKMAN  
(619) 533-4207



Sewer and Water Group Job 796

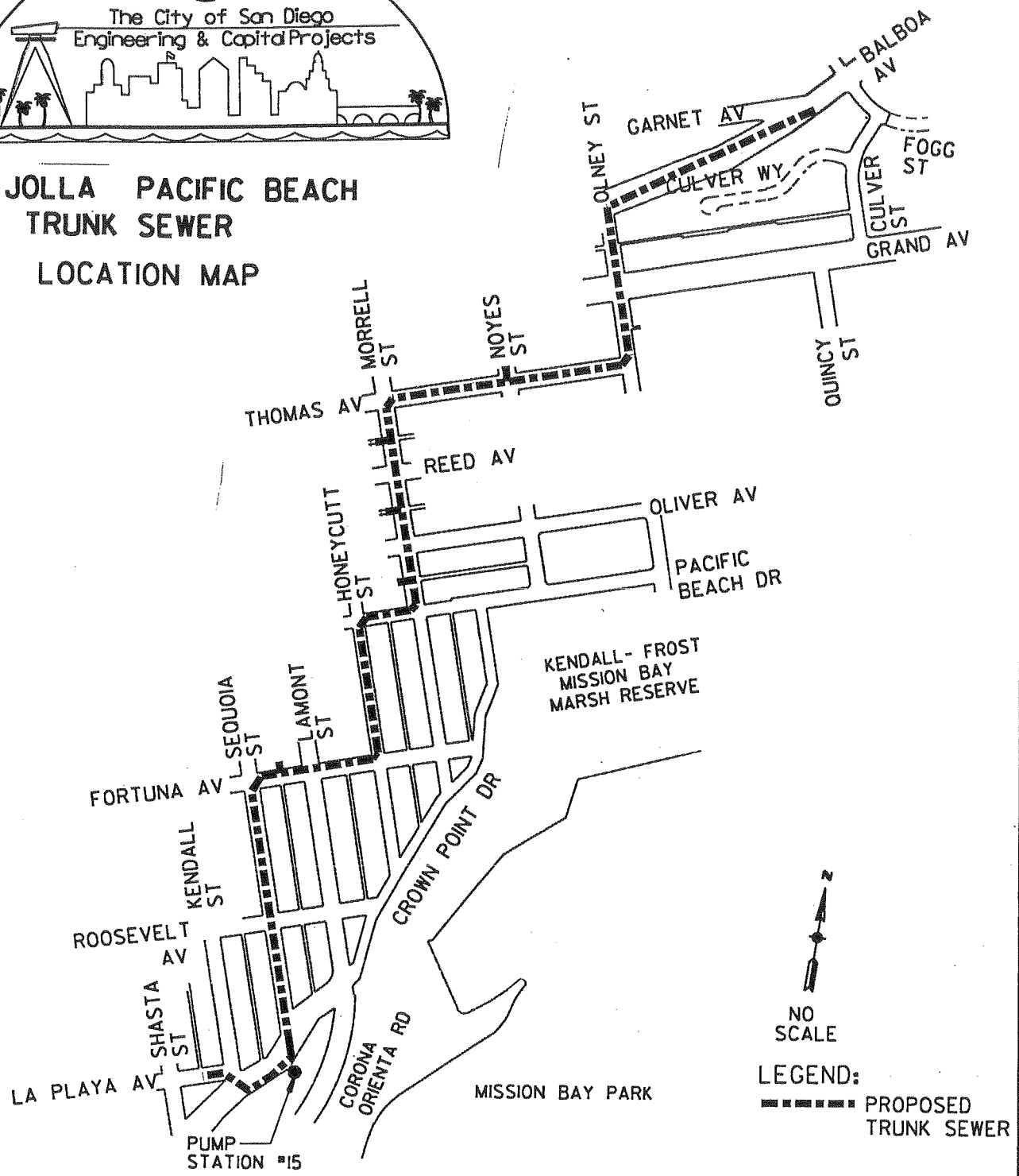


**Location Map**

Environmental Analysis Section Project No. 52553  
 CITY OF SAN DIEGO · DEVELOPMENT SERVICES



**LA JOLLA PACIFIC BEACH  
TRUNK SEWER  
LOCATION MAP**



NO SCALE  
**LEGEND:**  
 - - - - - PROPOSED TRUNK SEWER

LaJolla/Pacific Beach Trunk Sewer Number 3





## Initial Study Checklist

Date: June 6, 2004

Project No.: 63654

III. ENVIRONMENTAL ANALYSIS: Name of Project: Citywide Pipeline Projects

The purpose of the Initial Study is to identify the potential for significant environmental impacts which could be associated with a project pursuant to Section 15063 of the State CEQA Guidelines. In addition, the Initial Study provides the lead agency with information which forms the basis for deciding whether to prepare an Environmental Impact Report, Negative Declaration or Mitigated Negative Declaration. This Checklist provides a means to facilitate early environmental assessment. However, subsequent to this preliminary review, modifications to the project may mitigate adverse impacts. All answers of "yes" and "maybe" indicate that there is a potential for significant environmental impacts and these determinations are explained in Section IV of the Initial Study.

Yes    Maybe    No

I. AESTHETICS / NEIGHBORHOOD CHARACTER – Will the proposal result in:

- |   |   |   |          |
|---|---|---|----------|
| A. The obstruction of any vista or scenic view from a public viewing area?<br><u>No obstructions of any vistas or scenic views would result.</u>  | — | — | <u>X</u> |
| B. The creation of a negative aesthetic site or project?<br><u>The proposed project would not create a negative aesthetic.</u>  | — | — | <u>X</u> |
| C. Project bulk, scale, materials, or style which would be incompatible with surrounding development?<br><u>The proposed replacement rehabilitation, relocation, point repair, open trenching, and/or abandonment of water and/or sewer alignments within the City of San Diego would be compatible with the surrounding development.</u> | — | — | <u>X</u> |
| D. Substantial alteration to the existing character of the area?<br><u>No such alteration would result.</u>   | — | — | <u>X</u> |
| E. The loss of any distinctive or landmark tree(s), or a stand of mature trees?<br><u>No such loss would result.</u>  | — | — | <u>X</u> |
| F. Substantial change in topography or ground surface relief features?<br><u>No such change would result.</u>   | — | — | <u>X</u> |

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
G. The loss, covering or modification of any unique geologic or physical features such as a natural canyon, sandstone bluff, rock outcrop, or hillside with a slope in excess of 25 percent? <u>No such loss would result as all proposed work is confined to City of San Diego public-rights-of-way.</u>	—	—	<u>X</u>
H. Substantial light or glare? <u>No such impact would result.</u>	—	—	<u>X</u>
I. Substantial shading of other properties? <u>No shading would result from project implementation.</u>	—	—	<u>X</u>
II. AGRICULTURE RESOURCES / NATURAL RESOURCES / MINERAL RESOURCES – Would the proposal result in:			
A. The loss of availability of a known mineral resource (e.g., sand or gravel) that would be of value to the region and the residents of the state? <u>No such loss would result.</u>	—	—	<u>X</u>
B. The conversion of agricultural land to nonagricultural use or impairment of the agricultural productivity of agricultural land? <u>No agricultural land exists within the project alignment .</u>	—	—	<u>X</u>
III. AIR QUALITY – Would the proposal:			
A. Conflict with or obstruct implementation of the applicable air quality plan? <u>No such impact would result.</u>	—	—	<u>X</u>
B. Violate any air quality standard or contribute substantially to an existing or projected air quality violation? <u>No such violation would result.</u>	—	—	<u>X</u>
C. Expose sensitive receptors to substantial pollutant concentrations? <u>No such exposure would result.</u>	—	—	<u>X</u>
D. Create objectionable odors affecting a substantial number of people? <u>No such creation would result.</u>	—	—	<u>X</u>
E. Exceed 100 pounds per day of Particulate Matter 10 (dust)? <u>Dust would be generated temporarily during construction only and would be controlled with standard construction practices as specified in the Contract Documents.</u>	—	—	<u>X</u>

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
F. Alter air movement in the area of the project? <u>No such alteration would result.</u>	—	—	<u>X</u>
G. Cause a substantial alteration in moisture, or temperature, or any change in climate, either locally or regionally? <u>No such change would result.</u>	—	—	<u>X</u>
IV. BIOLOGY – Would the proposal result in:			
A. A reduction in the number of any unique, rare, endangered, sensitive, or fully protected species of plants or animals? <u>No such reduction would result as all proposed work would include areas devoid of potentially sensitive biological resources. As such, the proposed projects would not be located within or adjacent to the City of San Diego's Multi-Habitat Planning Area (MHPA).</u>	—	—	<u>X</u>
B. A substantial change in the diversity of any species of animals or plants? <u>No such change would result. See IV. A.</u>	—	—	<u>X</u>
C. Introduction of invasive species of plants into the area? <u>No invasive plant species would be proposed.</u>	—	—	<u>X</u>
E. Interference with the movement of any resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors? <u>No such interference would result. See IV.A.</u>	—	—	<u>X</u>
E. An impact to a sensitive habitat, including, but not limited to streamside vegetation, aquatic, riparian, oak woodland, coastal sage scrub or chaparral? <u>No such impact would result. See IV.A.</u>	—	—	<u>X</u>
F. An impact on City, State, or federally regulated wetlands (including, but not limited to, coastal salt marsh, vernal pool, lagoon, coastal, etc.) through direct removal, filling, hydrological interruption or other means? <u>No such impact would result, no wetland habitat occurs on the proposed project sites. See IV.A.</u>	—	—	<u>X</u>
G. Conflict with the provisions of the City's Multiple Species Conservation Program Subarea Plan or other approved local, regional or state habitat conservation plan? <u>No such conflict would result. See IV.A.</u>	—	—	<u>X</u>

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
V. ENERGY – Would the proposal:			
A. Result in the use of excessive amounts of fuel or energy (e.g. natural gas)? <u>No such use would result with project implementation.</u>	—	—	<u>X</u>
B. Result in the use of excessive amounts of power? <u>See V. A.</u>	—	—	<u>X</u>
VI. GEOLOGY/SOILS – Would the proposal:			
A. Expose people or property to geologic hazards such as earthquakes, landslides, mudslides, ground failure, or similar hazards? <u>The project sites are located within various geologic hazard zones. Proper engineering design would ensure that the potential for geologic impacts from regional hazards would be insignificant.</u>	—	—	<u>X</u>
B. Result in a substantial increase in wind or water erosion of soils, either on or off the site? <u>No such increase would result.</u>	—	—	<u>X</u>
C. Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? <u>See VI. A.</u>	—	—	<u>X</u>
VII. HISTORICAL RESOURCES – Would the proposal result in:			
A. Alteration of or the destruction of a prehistoric or historic archaeological site? <u>See Initial Study Discussion.</u>	—	<u>X</u>	—
B. Adverse physical or aesthetic effects to a prehistoric or historic building, structure, object, or site? <u>See Initial Study Discussion.</u>	—	<u>X</u>	—
C. Adverse physical or aesthetic effects to an architecturally significant building, structure, or object? <u>No structures exist within the proposed project alignments.</u>	—	—	<u>X</u>
D. Any impact to existing religious or sacred uses within the potential impact area? <u>No existing religious or sacred uses occur on-site.</u>	—	—	<u>X</u>
E. The disturbance of any human remains, including those interred outside of formal cemeteries? <u>See VII. A.</u>	—	<u>X</u>	—

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
VIII. HUMAN HEALTH / PUBLIC SAFETY / HAZARDOUS MATERIALS: Would the proposal:			
A. Create any known health hazard (excluding mental health)? <u>The County of San Diego Department of Environmental Health (DEH) Hazardous Materials Establishment Listing database identifies potentially hazardous material release sites throughout the City of San Diego. As a result, a DEH website search was conducted for the projects listed above resulting in "open" sites along several alignments. As such, trenching activities in this area could possibly encounter some petroleum-contaminated soils. Therefore, the proposed projects would include language within specifications and Contract Documents which address the handling of hazardous materials. See Initial Study Discussion.</u>	—	—	<u>X</u>
B. Expose people or the environment to a significant hazard through the routine transport, use or disposal of hazardous materials? <u>See VIII. A.</u>	—	—	<u>X</u>
C. Create a future risk of an explosion or the release of hazardous substances (including but not limited to gas, oil, pesticides, chemicals, radiation, or explosives)? <u>See VIII. A.</u>	—	—	<u>X</u>
D. Impair implementation of, or physically interfere with an adopted emergency response plan or emergency evacuation plan? <u>The proposed projects would not impair or interfere with an adopted emergency plan.</u>	—	—	<u>X</u>
E. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, create a significant hazard to the public or environment? <u>No sites have been identified.</u>	—	—	<u>X</u>
F. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? <u>No such hazards would result.</u>	—	—	<u>X</u>

Yes    Maybe    No

IX. HYDROLOGY/WATER QUALITY – Would the proposal result in:

- |   |   |   |          |
|---|---|---|----------|
| A. An increase in pollutant discharges, including down stream sedimentation, to receiving waters during or following construction? Consider water quality parameters such as temperature dissolved oxygen, turbidity and other typical storm water pollutants.<br><u>Compliance with the City of San Diego Storm Water Standards is required and Best Management Practices would be incorporated into the project specifications. Therefore, no mitigation is required.</u> | — | — | <u>X</u> |
| B. An increase in impervious surfaces and associated increased runoff?<br><u>See IX A.</u>  | — | — | <u>X</u> |
| C. Substantial alteration to on- and off-site drainage patterns due to changes in runoff flow rates or volumes?<br><u>The project would not substantially alter drainage patterns.</u>  | — | — | <u>X</u> |
| D. Discharge of identified pollutants to an already impaired water body (as listed on the Clean Water Act Section 303(d) list)?<br><u>No such discharge would result.</u>   | — | — | <u>X</u> |
| E. A potentially significant adverse impact on ground water quality?<br><u>No such impact would result.</u>   | — | — | <u>X</u> |
| F. Cause or contribute to an exceedance of applicable surface or groundwater receiving water quality objectives or degradation of beneficial uses?<br><u>No such exceedance would result.</u>   | — | — | <u>X</u> |

X. LAND USE – Would the proposal result in:

- |   |   |   |          |
|---|---|---|----------|
| A. A land use which is inconsistent with the adopted community plan land use designation for the site or conflict with any applicable land use plan, policy or regulation of an agency with jurisdiction over a project?<br><u>The projects would be consistent with the applicable Community Plan.</u> | — | — | <u>X</u> |
| B. A conflict with the goals, objectives and recommendations of the community plan in which it is located?<br><u>No such conflict would result.</u>   | — | — | <u>X</u> |

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
C. A conflict with adopted environmental plans, including applicable habitat conservation plans adopted for the purpose of avoiding or mitigating an environmental effect for the area? <u>No such conflict would result. See X. A.</u>	—	—	<u>X</u>
D. Physically divide an established community? <u>Proposed project would not physically divide an established community.</u>	—	—	<u>X</u>
E. Land uses which are not compatible with aircraft accident potential as defined by an adopted airport Comprehensive Land Use Plan? <u>No such impact would result.</u>	—	—	<u>X</u>
<b>XI. NOISE – Would the proposal result in:</b>			
A. A significant increase in the existing ambient noise levels? <u>No such increase would result. Address night work and construction noise.</u>	—	—	<u>X</u>
B. Exposure of people to noise levels which exceed the City's adopted noise ordinance? <u>See XI. A.</u>	—	—	<u>X</u>
C. Exposure of people to current or future transportation noise levels which exceed standards established in the Transportation Element of the General Plan or an adopted airport Comprehensive Land Use Plan? <u>See XI. A.</u>	—	—	<u>X</u>
XII. PALEONTOLOGICAL RESOURCES: Would the proposal impact a unique paleontological resource or site or unique geologic feature? <u>See Initial Study Discussion.</u>	—	<u>X</u>	—
<b>XIII. POPULATION AND HOUSING – Would the proposal:</b>			
A. Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? <u>The proposed project would not induce population growth.</u>	—	—	<u>X</u>
B. Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? <u>The project would not displace or necessitate the construction of housing.</u>	—	—	<u>X</u>

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
C. Alter the planned location, distribution, density or growth rate of the population of an area? <u>The project would not alter the population of the community.</u>	—	—	<u>X</u>
XIV. PUBLIC SERVICES – Would the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:			
A. Fire protection? <u>No additional fire protection services would be required.</u>	—	—	<u>X</u>
B. Police protection? <u>No additional police protection would be required.</u>	—	—	<u>X</u>
C. Schools? <u>No change to existing schools would occur.</u>	—	—	<u>X</u>
D. Parks or other recreational facilities? <u>Existing access to recreational areas would not be affected.</u>	—	—	<u>X</u>
E. Maintenance of public facilities, including roads? <u>Existing public facilities would not be affected.</u>	—	—	<u>X</u>
F. Other governmental services? <u>Existing services would remain unaffected.</u>	—	—	<u>X</u>
XV. RECREATIONAL RESOURCES – Would the proposal result in:			
A. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? <u>The project does not include recreational facilities or require the construction or expansion of recreational facilities.</u>	—	—	<u>X</u>
C. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? <u>See XV. A.</u>	—	—	<u>X</u>
XVI. TRANSPORTATION/CIRCULATION – Would the proposal result in:			
A. Traffic generation in excess of specific/community plan allocation? <u>No such generation would result.</u>	—	—	<u>X</u>



	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
B. An increase in projected traffic which is substantial in relation to the existing traffic load and capacity of the street system? <u>No such increase would result.</u>	—	—	<u>X</u>
C. An increased demand for off-site parking? <u>No parking is proposed with the Citywide Pipelines Project.</u>	—	—	<u>X</u>
D. Effects on existing parking? <u>No such effects would result.</u>	—	—	<u>X</u>
E. Substantial impact upon existing or planned transportation systems? <u>Project would not impact existing or planned transportation systems. A traffic control plan would be implemented upon construction.</u>	—	—	<u>X</u>
F. Alterations to present circulation movements including effects on existing public access to beaches, parks, or other open space areas? <u>No such alteration would result.</u>	—	—	<u>X</u>
G. Increase in traffic hazards for motor vehicles, bicyclists or pedestrians due to a proposed, non-standard design feature (e.g., poor sight distance or driveway onto an access-restricted roadway)? <u>Project would not increase traffic hazards for motor vehicles, bicyclists or pedestrians.</u>	—	—	<u>X</u>
H. A conflict with adopted policies, plans or programs supporting alternative transportation models (e.g., bus turnouts, bicycle racks)? <u>See XVI.E above.</u>	—	—	<u>X</u>
XVII. UTILITIES – Would the proposal result in a need for new systems, or require substantial alterations to existing utilities, including:			
A. Natural gas? <u>Existing utilities would not be affected.</u>	—	—	<u>X</u>
B. Communications systems? <u>Existing utilities would not be affected.</u>	—	—	<u>X</u>
C. Water? <u>The proposed project consists of the replacement rehabilitation, relocation, point repair, open trenching, and abandonment of water alignments within the City of San Diego.</u>	—	—	<u>X</u>

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
D. Sewer? <u>The proposed project consists of the replacement rehabilitation, relocation, point repair, open trenching, and abandonment of sewer alignments within the City of San Diego.</u>	—	—	<u>X</u>
E. Storm water drainage? <u>No change in drainage patterns is anticipated.</u>	—	—	<u>X</u>
F. Solid waste disposal? <u>Existing service would remain unaffected.</u>	—	—	<u>X</u>
 XVIII. WATER CONSERVATION – Would the proposal result in:			
A. Use of excessive amounts of water? <u>The project would not require the use of excessive amounts of water.</u>	—	—	<u>X</u>
B. Landscaping which is predominantly non-drought resistant vegetation? <u>No landscaping is proposed.</u>	—	—	<u>X</u>
 XIX. MANDATORY FINDINGS OF SIGNIFICANCE:			
A. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? <u>See Initial Study Discussion.</u>	—	<u>X</u>	—
B. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals? (A short-term impact on the environment is one which occurs in a relatively brief, definitive period of time while long-term impacts would endure well into the future.) <u>The proposed project would not result in an impact to long-term environmental goals.</u>	—	—	<u>X</u>

	<u>Yes</u>	<u>Maybe</u>	<u>No</u>
C. Does the project have impacts which are individually limited, but cumulatively considerable? (A project may impact on two or more separate resources where the impact on each resource is relatively small, but where the effect of the total of those impacts on the environment is significant.) <u>The proposed project would not result in cumulative impacts.</u>	—	—	<u>X</u>
D. Does the project have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly? <u>The project would not result in environmental effects which would cause substantial effects on human beings.</u>	—	—	<u>X</u>

## INITIAL STUDY CHECKLIST

### REFERENCES

#### I. Aesthetics / Neighborhood Character

City of San Diego Progress Guide and General Plan.

Community Plan.

Local Coastal Plan.

#### II. Agricultural Resources / Natural Resources / Mineral Resources

City of San Diego Progress Guide and General Plan.

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

California Department of Conservation - Division of Mines and Geology, Mineral Land Classification.

Division of Mines and Geology, Special Report 153 - Significant Resources Maps.

#### III. Air

California Clean Air Act Guidelines (Indirect Source Control Programs) 1990.

Regional Air Quality Strategies (RAQS) - APCD.

Site Specific Report: \_\_\_\_\_.

#### IV. Biology

City of San Diego, Multiple Species Conservation Program (MSCP), Subarea Plan, 1997

City of San Diego, MSCP, "Vegetation Communities with Sensitive Species and Vernal Pools" maps, 1996.

City of San Diego, MSCP, "Multiple Habitat Planning Area" maps, 1997.

Community Plan - Resource Element.

California Department of Fish and Game, California Natural Diversity Database, "State and Federally-listed Endangered, Threatened, and Rare Plants of California," January 2001.

**APPENDIX B**

**Fire Hydrant Meter Program**

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 1 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

1. **PURPOSE**

- 1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

- 2.1 All authorities and references shall be current versions and revisions.
- 2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15
- 2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986
- 2.4 California Code of Regulations, Titles 17 and 22
- 2.5 California State Penal Code, Section 498B.0
- 2.6 State of California Water Code, Section 110, 500-6, and 520-23
- 2.7 Water Department Director

**Reference**

- 2.8 State of California Guidance Manual for Cross Connection Programs
- 2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention
- 2.10 American Water Works Association Standards for Water Meters
- 2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

- 3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

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

- 3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.
- 3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

- 4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.
- 4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.
- 4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:
  - a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.
  - b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:
    - 1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.



<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 3 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
7. All private fire hydrant meters shall have backflow devices attached when installed.
8. The customer must maintain and repair their own private meters and private backflows.
9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.



<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 4 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
13. The outlet shall have a 2 ½ "National Standards Tested (NST) fire hydrant male coupling.
14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).

4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.

4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

4.6 **Conditions and Processes for Issuance of a Fire Hydrant Meter**

Process for Issuance

- a. Fire hydrant meters shall only be used for the following purposes:
  1. Temporary irrigation purposes not to exceed one year.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 5 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

2. Construction and maintenance related activities (see Tab 2).
  - b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
  - c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
  - d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
  - e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
  - f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
  - g. After the fees have been paid and an account has been created, the



<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 6 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

#### 4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as "Hotline"), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter's relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

#### 4.8 Disconnection of Fire Hydrant Meter

- a. After ten (10) months a "Notice of Discontinuation of Service" (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

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

for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

- a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for



<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 8 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

- b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

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

7. **FEE AND DEPOSIT SCHEDULES**

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

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

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

- 8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.
- 8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.
- 8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.
- 8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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

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

**Water Department Director**

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

#### APPENDIX

**Administering Division:** Customer Support Division

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

**Distribution:** DI Manual Holders





# Application For Fire Hydrant Meter

(EXHIBIT A)

For Office Use Only

2797 Caminito Chollas • San Diego, California 92105-5097  
METER SHOP 619 527 7449  
FAX 619 527 3125

NS Req:	Fac #:
Date:	By:

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

Fire Hydrant Location: (Attach detailed map, Thomas Bros. map location or construction drawing.)

Specific Use of Water:

Any return to Sewer or Storm Drain, if so, explain:

Estimated Duration of Meter Use:   Check Box if Reclaimed Water

## Company Information

Company Name:

Mailing Address:

City: State: Zip Code: Phone: ( )

\*Business License #: \*Contractor License #:

*\*A copy of the Contractor's License and/or Business License is required at the time of meter issuance.*

Name and Title of Agent: Phone: ( )

Site Contact Name and Title: Phone: ( )

Pager #: Cell: ( )

Responsible Party Name: Title:

Social Security or Cal ID #: Phone: ( )

Signature: Date:

*Guarantees payment of all charges resulting from the use of this meter. Insures that employees of this organization understand the proper use of Fire Hydrant Meter.*

## Fire Hydrant Meter Removal Request

Check Box to Request Removal of Above Meter Requested Removal Date:

Provide current Meter location if different from above:

Signature: Title: Date:

Phone: ( ) Pager: ( )

### For Office Use Only

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter	
CIS Account #:	Deposit Amount: \$	Fees Amount: \$
Meter Serial #:	Meter Size:	Meter Make & Style:
Backflow #:	Backflow Size:	Meter Make & Style:
Name:	Signature:	Date:

\$1,108.45 - FOR 24 HR INSTALLATION  
 \$1,052.26 - FOR 48 HR INSTALLATION

FHM App Created: 11/2/00-htp



**"Exhibit B"**

**CONSTRUCTION AND MAINTENANCE RELATED ACTIVITIES WITH NO RETURN TO SEWER:**

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

**Note: If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charged.**

**"Exhibit C"**

Date

Name of Responsible Party  
Company Name and address  
Account Number: \_\_\_\_\_

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # \_\_\_\_\_ located at (Meter location address) ends in 60 days and will be removed on or after (Date authorization expires). Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please refer to the Water Departments', Department Instruction (D.I.) 55.27 for further information and procedure.

Mail your request for an extension to :

City of San Diego, Water Department  
Attn: Meter Services  
2797 Caminito Chollas  
San Diego, Ca. 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant "Hot Line" at: (xxx) xxx-xxx.

Sincerely,

City of San Diego Water Department



**Fire Hydrant Meter Relocate/Removal Request**

(EXHIBIT D)

*For Office Use Only*

NS Req:	FHM Fac #:
Date:	By:

Date:

*Instruction: Complete pertinent information then FAX both form and map to (xxx) xxx-xxxx, mail, or hand-deliver to the City of San Diego, Water Department/Meter Shop at: 2707 Caminito Chollas San Diego, CA 92105*

**Meter Information**

Billing Account #:	Requested Move Date:
Current Fire Hydrant Meter Location:	
New Meter Location: (Attach a detailed map, Thomas Bros map location or construction drawing.)	

**Company Information**

Company Name:			
Mailing Address			
City:	State:	Zip Code:	Phone: ( )
Name and Title of Requestor:			Phone: ( )
Site Contact Name and Title			Phone: ( )
Pager #:			Cell: ( )
Responsible Party Name authorizing relocation fee:			
Signature:	Title:	Date:	

**Fire Hydrant Meter Removal Request**

<input type="checkbox"/> Check Box to Request Removal of Above Meter	Requested Removal Date:	
Provide current Meter location if different from above:		
Signature:	Title:	Date:
Phone: ( )	Pager: ( )	

*For Office Use Only*

CIS Account #:	Fees Amount: \$		
Meter Serial #:	Size:	Make/Style	
Backflow #:	Size:	Make/Style	
Name:	Signature:	Date:	

FHM Relocate\_Removal Form

FHM App Created: 11/2/00-htp

## **APPENDIX C**

### **Materials Typically Accepted by Certificate of Compliance**

## **Materials Typically Accepted by Certificate of Compliance**

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

**APPENDIX D**

**Sample City Invoice**

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

**APPENDIX E**

**Adjacent Projects**



# LOCATION MAP WATER GROUP JOB 925 (Map 1 of 2)

**SENIOR ENGINEER**  
MARK NASSAR  
(619) 533-3172

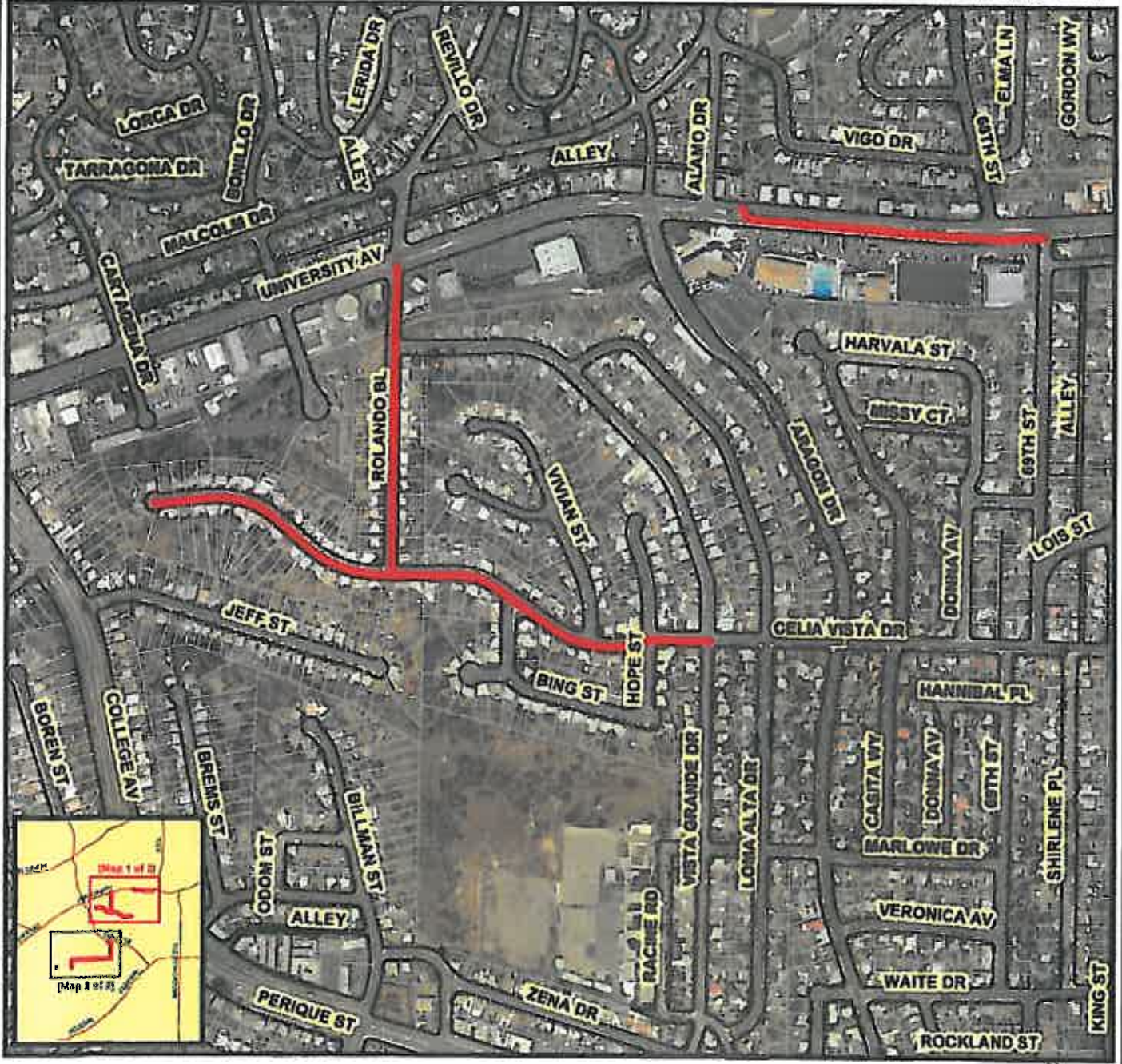
**PRELIM ENG. PROJECT MANAGER**  
TINA HUANG  
(619) 533-3883

**PRELIM ENG. PROJECT ENGINEER**  
KATE BURGIN  
(619) 533-3020

**PRELIM ENG. P.E.A.**  
TEDDY RAMOS  
(619) 533-3734



Project Implementation and Technical Services (PITS)  
CIP Preliminary Engineering and Program Coordination



## Legend

——— WATER GROUP JOB 925 selection



THIS MAP / DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  
 Note: This product may contain information from the SANDAG regional Information System which cannot be reproduced without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to Sandag. This map is copyrighted by RAND McNALLY & COMPANY. It is intended to copy or reproduction in any form or by any means, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.

COMMUNITY NAME: MID-CITY EASTERN      COUNCIL DISTRICT: 7      SAP #: B-10176

Date: 3-24-10



THIS MAP / DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information from the SANDAG regional information system which cannot be reproduced without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY® to SANGIS. This map is copyrighted by RAND MCNALLY & COMPANY®. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY®.

LOCATION MAP

**WATER GROUP JOB 925  
(Map 2 of 2)**

SENIOR ENGINEER  
MARK NASSAR  
(619)-533-3172

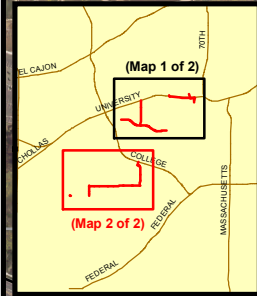
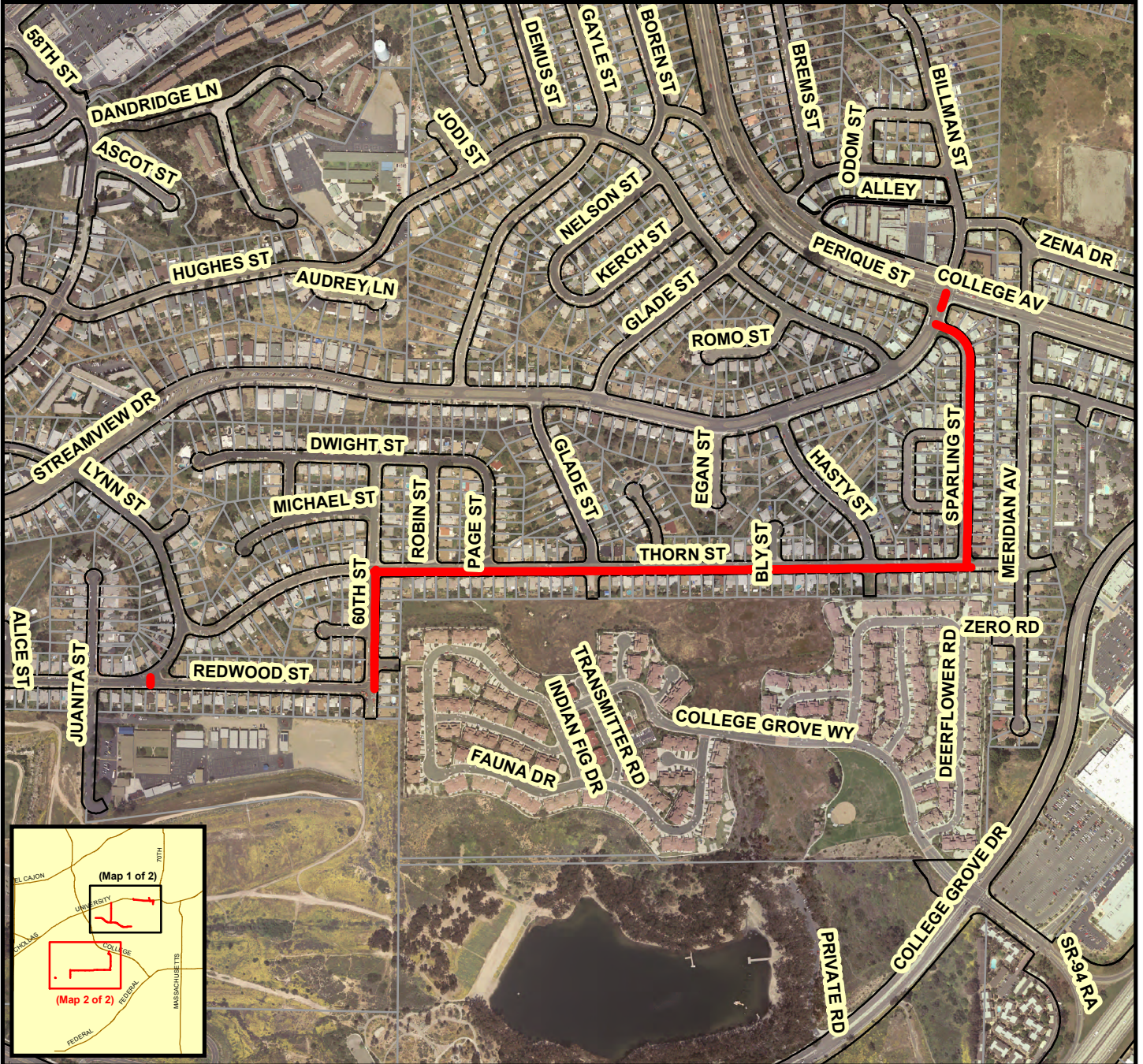
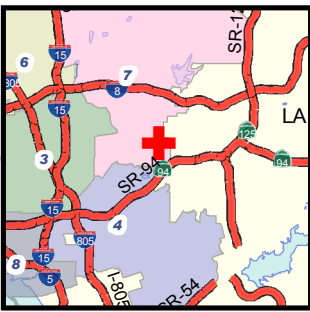
PRELIM. ENG. PROJECT MANAGER  
TINA HUANG  
(619)-533-3863

PRELIM. ENG. PROJECT ENGINEER  
KATE BURGIN  
(619)-533-3020

PRELIM. ENG. P.E.A.  
TEDDY RAMOS  
(619) 533-3734



Project Implementation and Technical Services (PITS)  
CIP Preliminary Engineering and Program Coordination



**Legend**

WATER GROUP JOB 925



S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\TEO Transportation\Eastgate Mall - Miramar Road To SDG&E Easement

COMMUNITY NAME: MID-CITY EASTERN

COUNCIL DISTRICT: 7

SAP #: B-10175



**APPENDIX F**

**Hydrostatic Discharge Form**

## APPENDIX

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

All discharge activities related to this project comply with the Regional Water Quality Control Board (RWQCB) Order No. 2002-0020, General Permit for Discharges of Hydrostatic Test Water and Potable Water to Surface Water and Storm Drains as referenced by ([http://www.swrcb.ca.gov/rwqcb9/board\\_decisions/adopted\\_orders/2002/2002\\_0020.shtml](http://www.swrcb.ca.gov/rwqcb9/board_decisions/adopted_orders/2002/2002_0020.shtml)), and as follows:

Discharged water has been dechlorinated to below <b>0.1</b> (mg/l) level; and effluent has been maintained between <b>6 and 9</b> (PH) based on:							<i>is discharge within acceptable limits?</i>		<i>Comment</i>
Event #	Discharge Date & Amount (GAL)	Discharge Time	Meter Readings (at source)	Test Results (Chlorine / PH)	Name of Personnel Conducting Tests (print)	*signature of personnel	yes	no	
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						

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

**Project Name:** \_\_\_\_\_

**Work Order No.(s):** \_\_\_\_\_

Have any thresholds have been exceeded? Per Order No. 2002-0020, would this be a reportable discharge and must be reported **within 24 hours** of the event? [Reportable discharge would include violation of maximum gallons per day, any upset which exceeds any effluent limit]

## **APPENDIX G**

### **Agreement for Application of Emulsion-Aggregate Slurry**

**AGREEMENT FOR APPLICATION OF  
EMULSION-AGGREGATE SLURRY**

**RELATED TO SEWER AND WATER GROUP 788**

THIS Agreement for Application of Emulsion-Aggregate Slurry Related to **Sewer and Water Group 788** [Agreement] is made and entered into by and between the City of San Diego [City] and [\*Insert name of Contractor\*] [Contractor] (collectively referred to herein as “the Parties”).

**RECITALS**

A. WHEREAS, on or about [\*Insert date\*], the City and the Contractor entered into an agreement for the construction of **Sewer and Water Group 788** [Contract], WBS No. **B-00379 / B-00106**.

B. WHEREAS, in accordance with the terms of the Contract, the City and the Contractor agreed that the slurry sealing work described in Section 302-4, *Emulsion-Aggregate Slurry* and 600-3, *Rubberized Emulsion – Aggregate Slurry* would not be performed during the months of November, December, January, February, and/or March [Winter Months].

C. WHEREAS, work progressed in accordance with the Contract such that the slurry sealing work would, in the absence of the Parties’ agreement to the contrary, be performed during the Winter Months.

D. WHEREAS, the City and the Contractor desire to enter into this Agreement in order to fulfill their obligations under 302-4, *Emulsion-Aggregate Slurry* and 600-3, *Rubberized Emulsion – Aggregate Slurry* of the Contract.

NOW, THEREFORE, in consideration of the mutual obligations of the Parties as set forth in the above Recitals, which are incorporated herein by this reference, the City and the Contractor agree as follows:

**ARTICLE I - WORK TO BE PERFORMED**

**1.1 Performance of Work.**

The Contractor agrees to perform all slurry sealing work as set forth in Sections 302-4 and 600-3 of the Contract and *sheet 33342-35-D of the Project’s plans* [Slurry Work], which is/are incorporated by this reference as though fully set forth herein. The Slurry Work shall be performed in accordance with the Schedule of Work, attached hereto as “Exhibit A” and incorporated herein by this reference, or as otherwise agreed to by the Parties in a written change to the Schedule of Work. Unless otherwise specified, the time of completion of this Agreement shall be expressed in Working Days.

For the purposes of this Agreement:

- a) References in the specified sections to the “Agency” shall mean the City and the “Work” shall mean the Slurry Work.

- b) References to the specified sections shall mean sections of the GREENBOOK (Standard Specifications for Public Works Construction), the City Supplement, and Supplementary Special Provisions under the editions specified in the Contract.

## **1.2 Working Day.**

See the City Supplements, Section 1-2, TERMS AND DEFINITIONS. The Engineer will make a daily determination of each Working Day to be charged against the Agreement time. These determinations will be discussed and the Contractor will be furnished a periodic statement showing allowable number of Working Days of Agreement time, including any adjustments, at the beginning of the reporting period. The statement will also indicate the number of Working Days charged during the reporting period and the number of Working Days of Agreement time remaining. If the Contractor does not agree with the statement, it shall file a written protest within 15 days after receipt, setting forth the facts of the protest. Otherwise, the statement will be deemed to have been accepted.

## **1.3 Prosecution of Slurry Work.**

Section 6-2, *Prosecution of Work* is incorporated into this Agreement by this reference as though fully set forth herein.

## **1.4 Project Site Maintenance.**

Section 7-8 of the Contract, *Project Site Maintenance* is incorporated into this Agreement by this reference as though fully set forth herein.

## **1.5 Protection and Restoration of Existing Improvements.**

Section 7-9 of the Contract, *Protection and Restoration of Existing Improvements* is incorporated into this Agreement by this reference as though fully set forth herein.

## **1.6 Public Convenience and Safety.**

Section 7-10 of the Contract, *Public Convenience and Safety* is incorporated into this Agreement by this reference as though fully set forth herein.

## **1.7 Completion, Acceptance, and Guarantee.**

The Engineer will inspect the Slurry Work in accordance with Section 302-4 and 600-3 of the Contract. The Contractor shall provide the Engineer with written notice that the Slurry Work has been completed. If the Engineer determines that the Slurry Work has been completed to the Engineer's reasonable satisfaction and is ready for acceptance, the Engineer will accept the completed Work by sending written notice to the Contractor specifying the date of acceptance. All Slurry Work shall be subject to the warranty requirements of the Contract as specified in Section 6-8, COMPLETION, ACCEPTANCE, AND WARRANTY.

## **1.8 Payment to Contractor.**

Upon completion of the Slurry Work, the City will pay the Contractor for slurry work, bonds, insurance, and traffic control in accordance with the applicable sections of the Contract.

### **1.9 Delays and Extensions of Time.**

Section 6-6, *Delays and Extensions of Time* is incorporated into this Agreement by this reference as though fully set forth herein.

### **1.10 Liquidated Damages.**

Section 6-9, *Liquidated Damages* is incorporated into this Agreement by this reference as though fully set forth herein.

## **ARTICLE II - BOND/INSURANCE/INDEMNIFICATION**

### **2.1 Faithful Performance Bond.**

Prior to execution of this Agreement, the Contractor shall provide the City with a faithful performance bond [Bond] in the amount of \$[\*insert amount of Contractor's bid item for slurry work], guaranteeing faithful performance of all Slurry Work, within the time prescribed in this Agreement, in a manner satisfactory to City, and that all materials and workmanship will be free from original or developed defects. The Bond must remain in effect until the end of all warranty periods set forth in this Agreement. The Bond shall comply with Section 2-4, BONDS of the Contract.

### **2.2 Insurance.**

Section 7-3, *Liability Insurance* is incorporated into this Agreement by this reference as though fully set forth herein. At all times during the term of this Agreement, the Contractor shall maintain insurance coverage required by Section 7-3, LIABILITY INSURANCE of the Contract for:

- a. Commercial General Liability.
- b. Commercial Automobile Liability.
- c. Worker's Compensation.

All policies must be primary and non-contributing to any insurance that may be carried by the City, as reflected in an endorsement, which shall be submitted to the City. The policies shall not be canceled, non-renewed, or materially changed except after 30 days prior written notice by the Contractor or the insurance carrier to the City by certified mail, except for non-payment of premium, in which case 10 days notice shall be provided.

### **2.3 Indemnification.**

Section 7-15, *Indemnification And Hold Harmless Agreement* is incorporated into this Agreement by this reference as though fully set forth herein.

## **ARTICLE III - DEFAULT/TERMINATION**

### **3.1 Default by Contractor.**

Section 6-4, *Default by Contractor* is incorporated into this Agreement by this reference as though fully set forth herein.



### **3.2 Termination of Agreement.**

Section 6-5, *Termination of Contract* is incorporated into this Agreement by this reference as though fully set forth herein.

## **ARTICLE IV - CONTRACTOR OBLIGATIONS**

### **4.1 Compliance with the City's Equal Opportunity Contracting Program.**

The Contractor and each Subcontractors shall comply with the City's Equal Opportunity Contracting Program requirements which the Contractor acknowledges receiving in conjunction with the Contract.

### **4.2 Non-Discrimination Ordinance.**

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

### **4.3 Compliance Investigations.**

Upon the City's request, the Contractor agrees to provide to the City, within 60 days, a truthful and complete list of the names of all Subcontractors and Suppliers that the Contractor has used in the past 5 years on any of its contracts that were undertaken within San Diego County, including the total dollar amount paid by the Contractor for each subcontract or supply contract. The Contractor further agrees to fully cooperate in any investigation conducted by the City pursuant to the City's *Nondiscrimination in Contracting Ordinance* (Municipal Code sections 22.3501-22.3517.) The Contractor understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in remedies being ordered against the Contractor up to and including contract termination, debarment, and other sanctions for violation of the provisions of the *Nondiscrimination in Contracting Ordinance*. The Contractor further understands and agrees that the procedures, remedies and sanctions provided for in the *Nondiscrimination Ordinance* apply only to violations of the *Nondiscrimination Ordinance*.

### **4.4 Drug-Free Workplace.**

The Contractor agrees to comply with the City's Drug-Free Workplace requirements set forth in Council Policy 100-17, adopted by Council Resolution No. R-277952 and incorporated into this Agreement by this reference. The Contractor has certified to the City that it will provide a drug-free workplace by submitting a Contractor Certification for a Drug-Free Workplace form.

The Contractor further certifies that any subcontract for this Agreement shall contain language that binds the Subcontractor to comply with the drug-free workplace requirements of this Agreement, as required by Sections 2.A.(1) through (3) of Council Policy 100-17. The Contractor and Subcontractors shall be individually responsible for their own drug-free work place program.

### **4.3 Compliance with Controlling Law.**

The Contractor shall comply with all laws, ordinances, regulations, and policies of the federal, state, and local governments applicable to this Agreement, including the California Labor Code. In addition, the Contractor shall comply immediately with all directives issued by the City or its authorized representatives under authority of any laws, statutes, ordinances, rules, or regulations. The laws of the State of California shall govern and control the terms and conditions of this Agreement.

## **ARTICLE V - GENERAL PROVISIONS**

### **5.1 Jurisdiction, Venue, and Attorney's Fees.**

The venue for any suit or proceeding concerning this Agreement, the interpretation or application of any of its terms, or any related disputes shall be in the County of San Diego, State of California. The prevailing party in any such suit or proceeding shall be entitled to a reasonable award of attorney's fees in addition to any other award made in such suit or proceeding.

### **5.2 Successors in Interest.**

This Agreement and all rights and obligations created by this Agreement shall be in force and effect whether or not any parties to the Agreement have been succeeded by another entity, and all rights and obligations created by this Agreement shall be vested and binding on any party's successor in interest.

### **5.3 Integration.**

This Agreement and the exhibits and references incorporated into this Agreement fully express all understandings of the Parties concerning the matters covered in this Agreement. No change, alteration, or modification of the terms or conditions of this Agreement, and no verbal understanding of the Parties, their officers, agents, or employees shall be valid unless made in the form of a written change agreed to in writing by both Parties or an amendment to this Agreement agreed to by both Parties. All prior negotiations and agreements are merged into this Agreement.

### **5.4 No Waiver.**

No failure of either the City or the Contractor to insist upon the strict performance by the other of any covenant, term or condition of this Agreement, nor any failure to exercise any right or remedy consequent upon a breach of any covenant, term, or condition of this Agreement, shall constitute a waiver of any such breach or of such covenant, term or condition. No waiver of any breach shall affect or alter this Agreement, and each and every covenant, condition, and term hereof shall continue in full force and effect to any existing or subsequent breach.

### **5.5 Severability.**

The unenforceability, invalidity, or illegality of any provision of this Agreement shall not render any other provision of this Agreement unenforceable, invalid, or illegal.

## **5.6 Drafting Ambiguities.**

The Parties agree that they are aware that they have the right to be advised by counsel with respect to the negotiations, terms and conditions of this Agreement, and the decision of whether or not to seek advice of counsel with respect to this Agreement is a decision, which is the sole responsibility of each Party. This Agreement shall not be construed in favor of or against either Party by reason of the extent to which each Party participated in the drafting of the Agreement.

## **5.7 City Acts/Approvals.**

Whenever an act or approval is required by the City in accordance with the terms of this Agreement, that the Public Works Department Director or duly designated representative shall perform act or approval.

## **5.8 Signing Authority.**

The representative for each Party signing on behalf of a corporation, partnership, joint venture or governmental entity hereby declares that authority has been obtained to sign on behalf of the corporation, partnership, joint venture, or entity and agrees to hold the other Party or Parties hereto harmless if it is later determined that such authority does not exist.

IN WITNESS WHEREOF, this Agreement is executed by the City of San Diego, by and through its Public Works Department Director in accordance with Resolution No. [\*Insert resolution number authorizing underlying construction contract\*], and by Contractor.

THE CITY OF SAN DIEGO

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
Mayor or designee

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

CONTRACTOR

Dated: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

I HEREBY APPROVE the form and legality of the foregoing Agreement \_\_\_\_\_ day of \_\_\_\_\_, [\*insert year\*].

JAN I GOLDSMITH, City Attorney

By: \_\_\_\_\_  
Deputy City Attorney

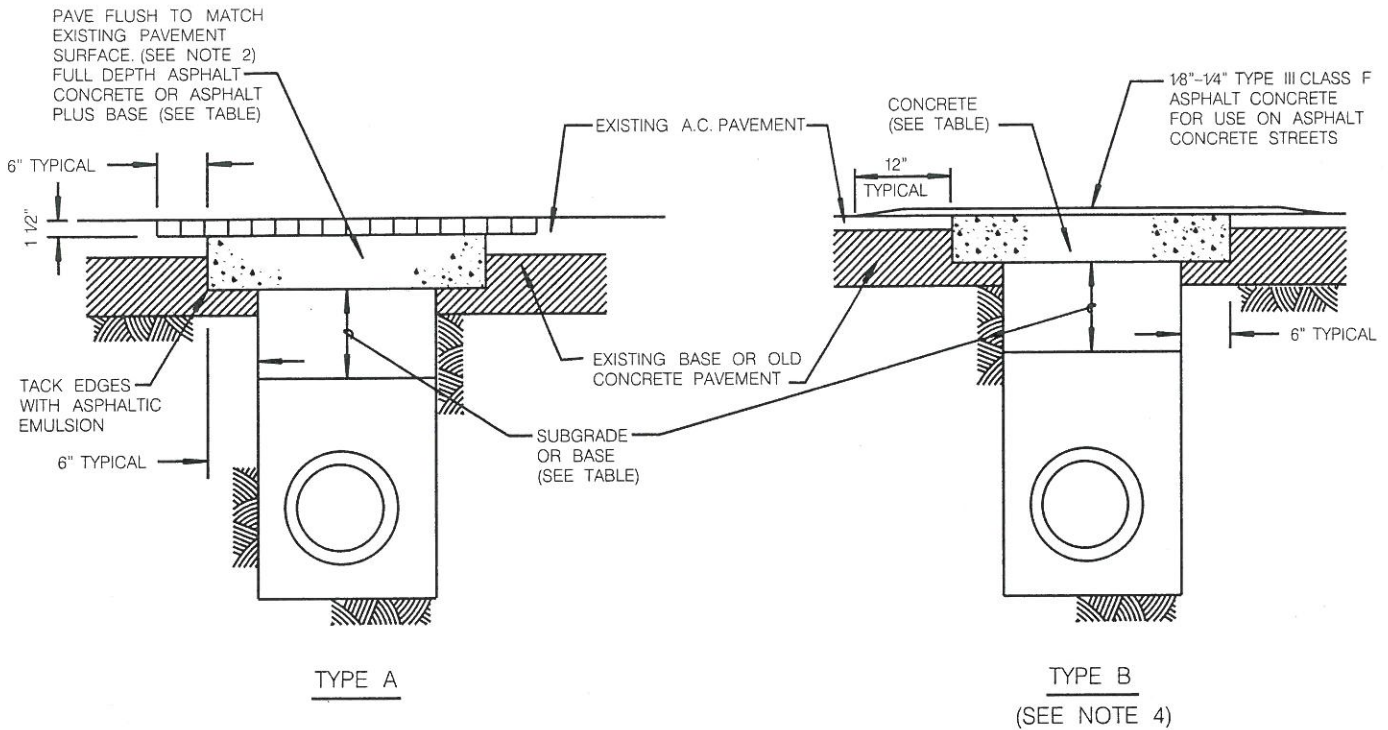
Printed Name: \_\_\_\_\_

**EXHIBIT A**  
**SCHEDULE OF WORK**

[\*Insert Schedule Showing Time (in Working Days) in Which Work is to be Performed\*]

**APPENDIX H**

**Updated Standard Drawings**



	TYPE A		TYPE B
	ASPHALT	ASPHALT PLUS BASE	CONCRETE
MIX DESIGN	3/4" TYPE III CLASS B3	3/4" TYPE III CLASS B3 PLUS CLASS II BASE	560-C-3250
ALLEYS	8.0"	ASPHALT THICKNESS TO EQUAL	5.5"
LOCAL THROUGH 4 LANE COLLECTORS	10.0"	EXISTING PLUS 1", MIN 4" TO MAX. 9".	7.0"
MAJOR OR GREATERS	12.0"	COMBINED ASPHALT PLUS BASE 18" MIN.	9.0"

NOTES:

1. ANY STREET TRENCH 7 FEET IN WIDTH OR GREATER AND LONGER THAN 100 FEET IN OVERALL LENGTH SHALL BE RECONSTRUCTED WITH THE PAVEMENT SECTION FOR THE STREET CLASSIFICATION PER SCHEDULE "J" (SDG-113).
2. ASPHALT TRENCH CAPS IN STREETS NOT RECEIVING A FULL WIDTH OVERLAY PRIOR TO ACCEPTANCE SHALL BE MILLED AS SHOWN AND RESURFACED WITH 1/2" TYPE III CLASS C2 ASPHALT NO LESS THAN 30 DAYS AFTER INITIAL ASPHALT PLACEMENT.
3. 560-C-3250 CONCRETE TREATED WITH A MINIMUM 2% CALCIUM CHLORIDE SOLUTION IN ACCORDANCE WITH 201-1 OR 650-CW-4000 (WO CC) CONCRETE MAY BE OPENED TO TRAFFIC 3 DAYS AFTER IT IS PLACED. 650-CW-4000 CONCRETE TREATED IN SAME MANNER (WCC) MAY BE OPENED TO TRAFFIC 24 HOURS AFTER IT IS PLACED. CONCRETE SPECIFIED BY ALTERNATE CLASS OR OTHERWISE CONTAINING FLY ASH IS NOT ALLOWED.
4. USE TYPE "A" UNLESS SPECIFIED OR AUTHORIZED OTHERWISE BY THE CITY ENGINEER.

REVISION	BY	APPROVED	DATE
ORIGINAL		J.P. CASEY	1/24/89
UPDATED	KA	A. OSKOJI	09/10

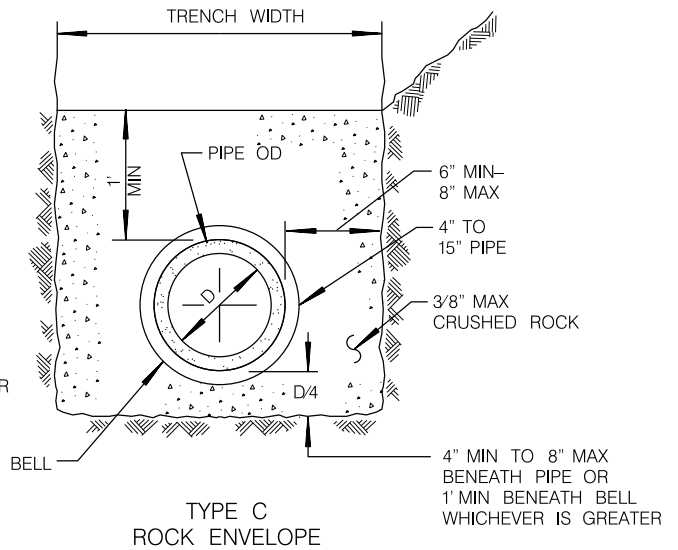
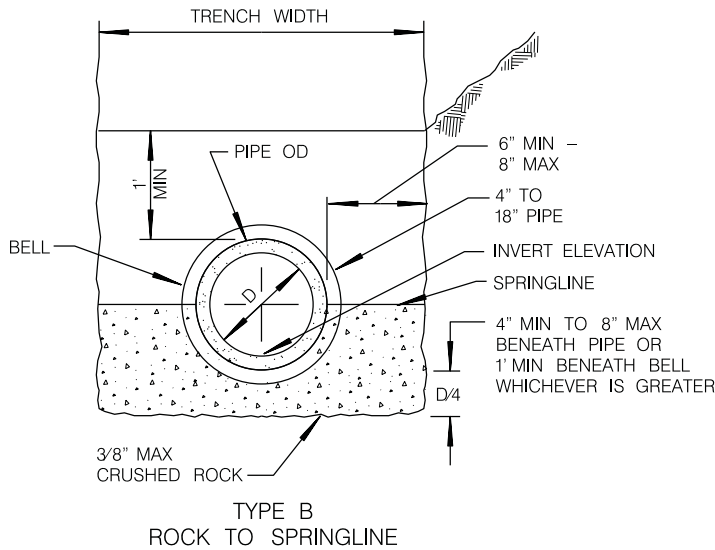
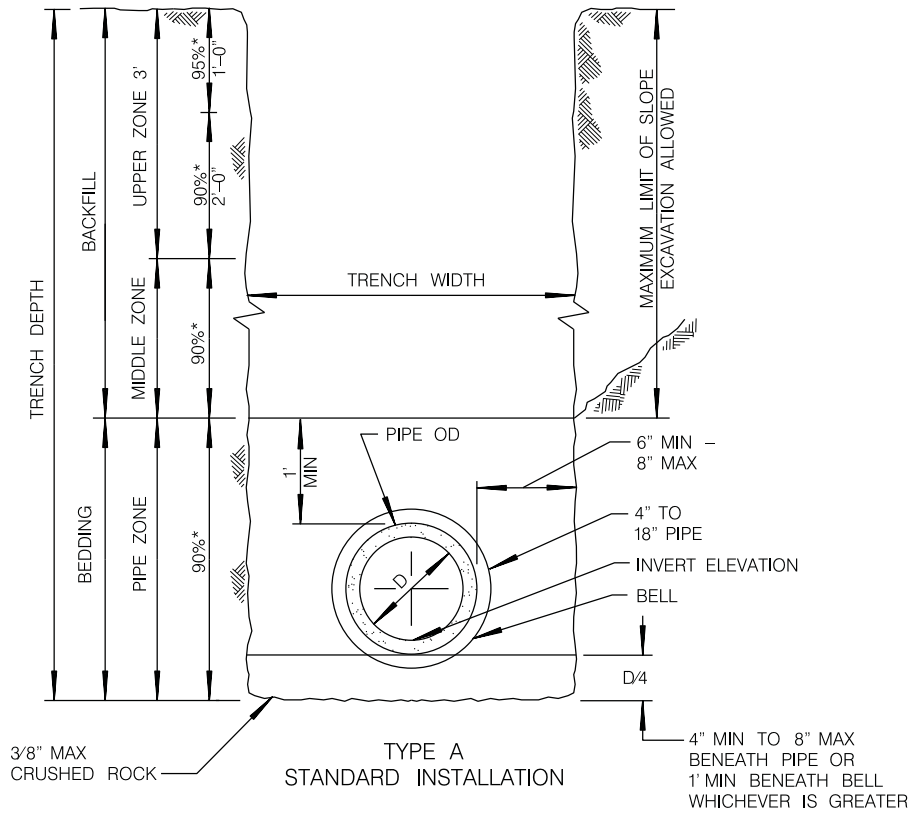
CITY OF SAN DIEGO - STANDARD DRAWING

**TRENCH RESURFACING FOR ASPHALT  
CONCRETE SURFACED STREETS**

RECOMMENDED BY THE CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*[Signature]*  
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDG-107**



**NOTES**

- FOR TRENCH RESURFACING IN IMPROVED STREETS, SEE STANDARD DRAWINGS SDG-107 AND SDG-108.
- (\*) INDICATES MINIMUM RELATIVE COMPACTION.
- MINIMUM DEPTH OF COVER FROM THE TOP OF PIPE TO FINISH GRADE FOR PVC SDR 35 SEWER MAIN SHALL BE 5'. FOR SHALLOWER DEPTH, SPECIAL DESIGN IS REQUIRED.
- SEE TYPE A INSTALLATION FOR DETAILS NOT SHOWN FOR TYPES B AND C.
- FOR PIPE SIZE ENCASEMENT LARGER THAN 15", MAXIMUM SIDE WALL CLEARANCE SHALL BE 12" OR AS SHOWN ON THE PLANS.
- 6" METAL TAPE SHALL BE INSTALLED ABOVE PIPE 4" BELOW TRENCH CAP AND 12" BELOW FINISH GRADE IN UNIMPROVED STREETS.
- 1' SAND CUSHION OR A 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD SHALL BE PLACED FOR CROSSINGS UTILITIES WHEN VERTICAL CLEARANCE IS 1' OR LESS. THE NEOPRENE PAD SHALL BE PLACED ON THE MOST FRAGILE UTILITY.

REVISION	BY	APPROVED	DATE
ORIGINAL	RA	A. OSKOUI	12/06
UPDATED	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO – STANDARD DRAWING

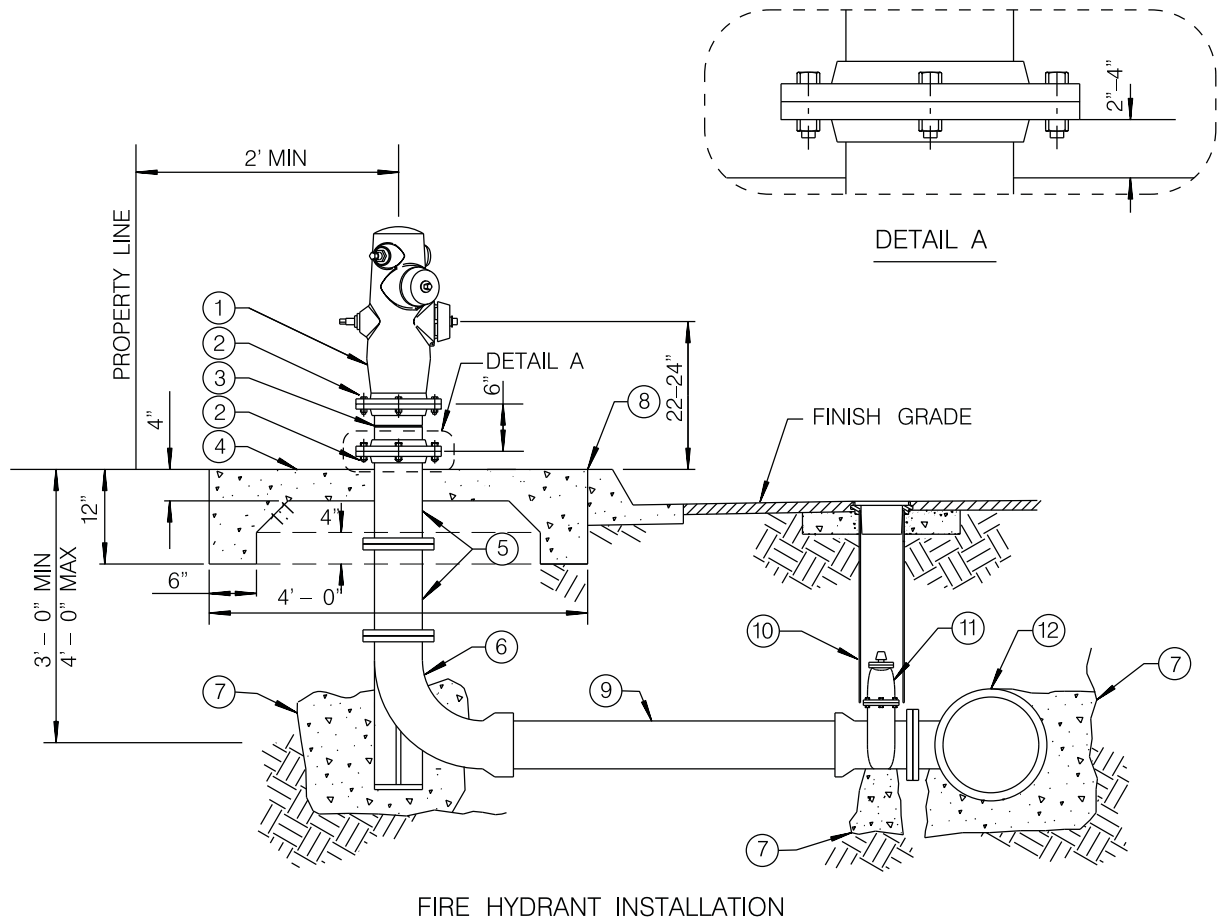
**PIPE BEDDING AND TRENCH BACKFILL  
FOR SEWERS**

RECOMMENDED BY THE CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*H. Hadali* 1/31/2012  
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDS-110**



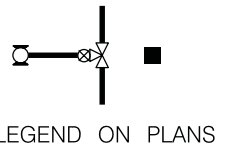


FIRE HYDRANT INSTALLATION

ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
1	6" WET BARREL FIRE HYDRANT	5	6" CAST IRON EXTENSION NON-GROOVED SPOOL - AS REQUIRED (F, F)
2	.75" X 3.5" MIN HEX HEAD BREAKAWAY (SHEAR) BOLTS AND NUTS (ASTM A307) SHALL BE 3/4" NC THREAD. HEX HEAD ON TOP OF FLANGES (ALL)	6	6" LONG RADIUS DIBASE ELBOW (F, PO / MJ)
3	6" CAST IRON BREAKAWAY SPOOL WITH 0.25"-V (SINGLE OR DOUBLE) BREAK OFF GROOVE	7	CONCRETE THRUST BLOCK
4	4' X 4' X 4" THICK CONCRETE PAD WITH 6" X 12" DEEP THICKENED EDGE AROUND PERIMETER OF CONCRETE PAD	8	COLD JOINT STRIP
		9	PIPE - 6" C-900 PVC
		10	GATE WELL WITH CAP
		11	6" GATE VALVE (MJ / PO, F)
		12	TEE - SIZE X 6" (MJ, MJ, F)

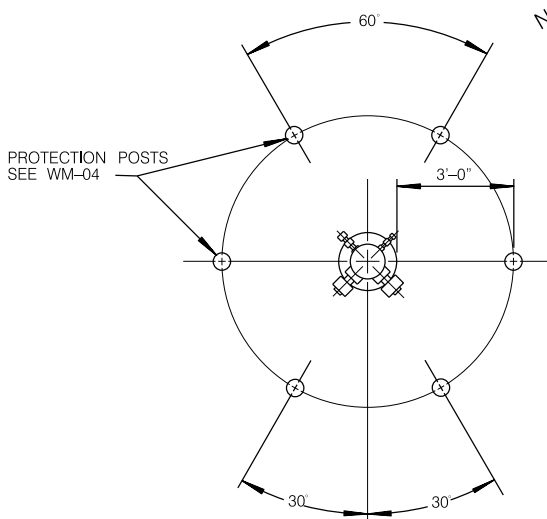
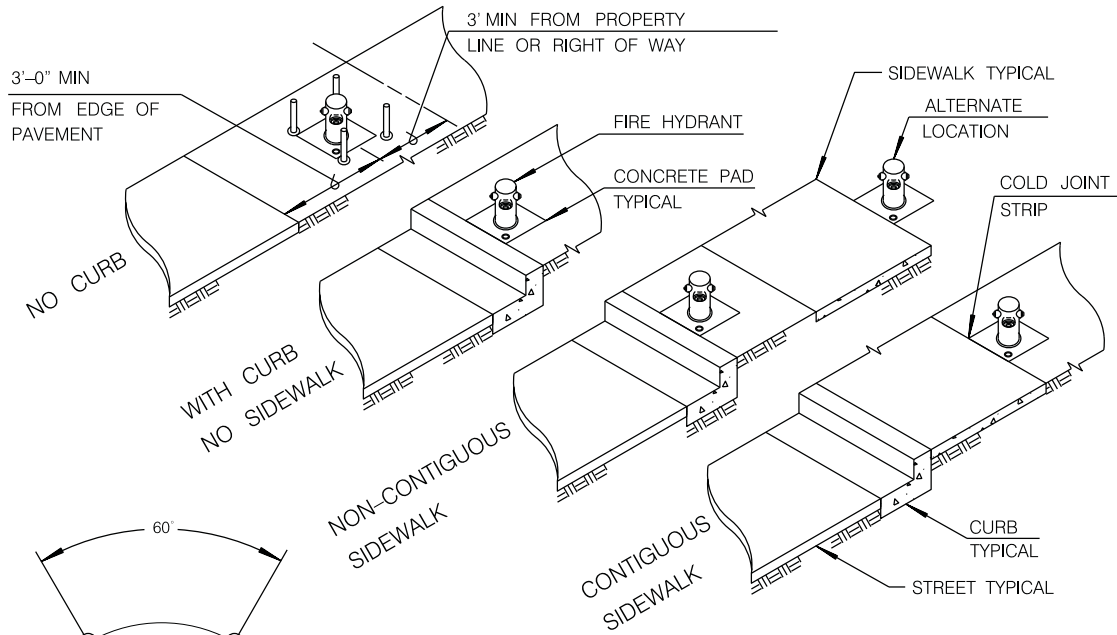
NOTES:

- NUMBER OF OUTLETS SHALL BE AS SHOWN ON THE PLANS.
- CONNECT TO BASE OF THE HYDRANT WITH SHEAR BOLTS INSTALLED WITH HEX HEAD ON TOP OF THE FLANGE. (31/64" DIAMETER HOLE 2" DEEP IN BOLTS, GALVANIZED AFTER BORING)



SHEET 1 OF 3

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>
				<b>FIRE HYDRANT INSTALLATION</b>	COORDINATOR R.C.E. 65271 DATE
Appendix H - Updated Standard Drawings Sewer and Water Group 788					DRAWING NUMBER

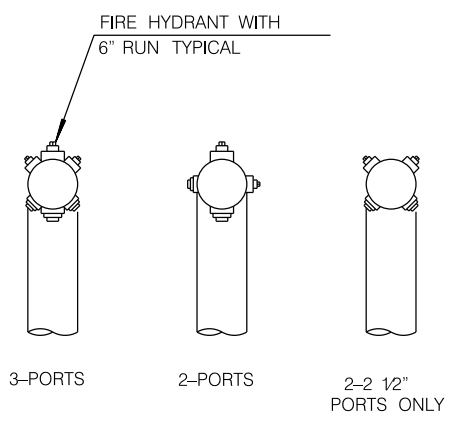


PROTECTION POSTS SEE WM-04

NOTE:

WHEN REQUIRED, NUMBER OF POSTS AND LOCATION TO BE SHOWN ON THE PLANS.

**PROTECTION POSTS**



**PORT ORIENTATION**

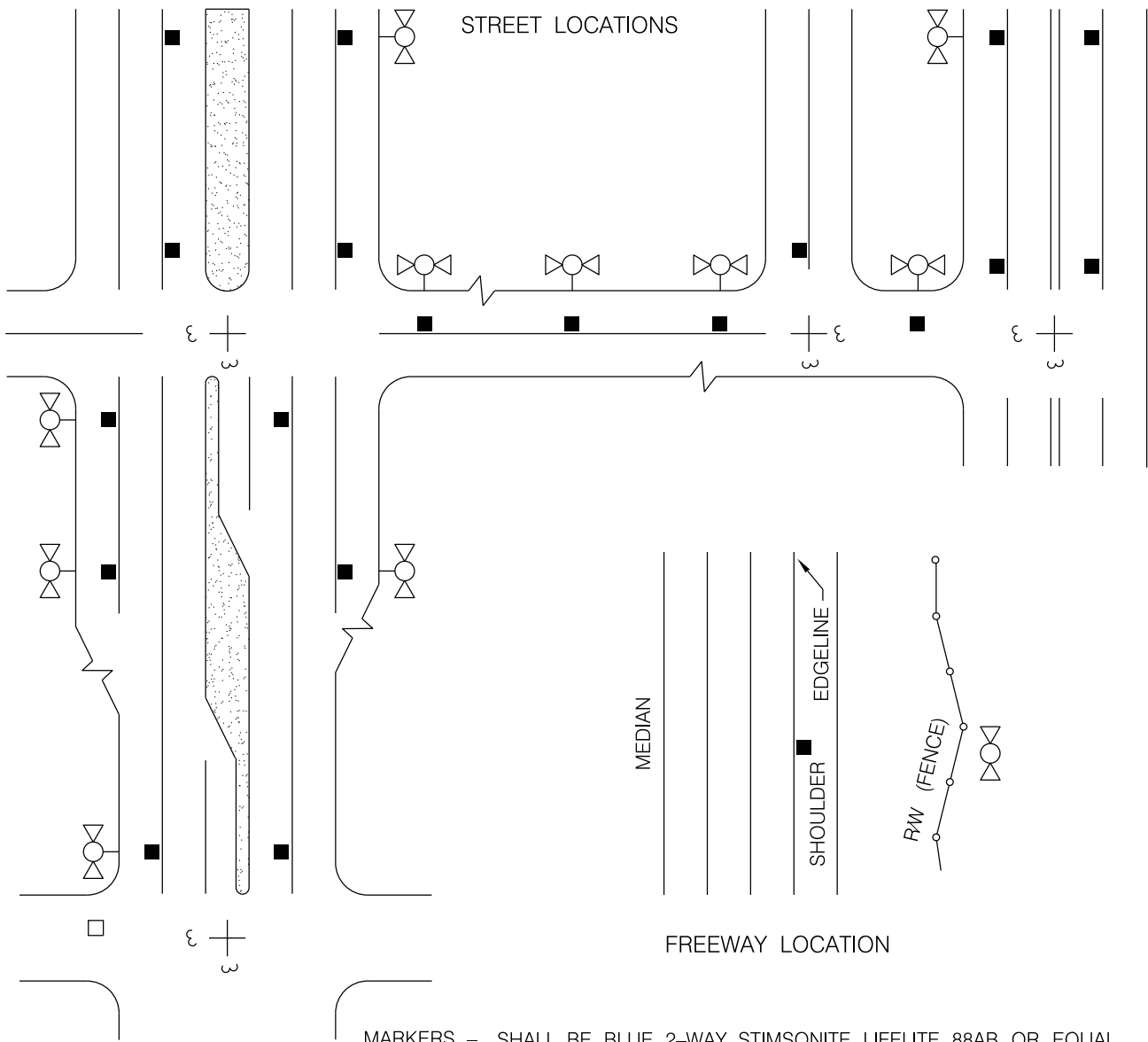
**FIRE HYDRANT LOCATIONS AND PORT ORIENTATION**

**NOTES:**

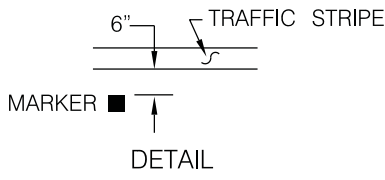
- 1) LOCATE FIRE HYDRANT AS SHOWN ABOVE OR AS DIRECTED BY THE ENGINEER.
- 2) FIRE HYDRANTS SHALL BE INSTALLED WITH THE LARGEST PORT PERPENDICULAR TO THE STREET.
- 3) IF THE CONCRETE SLAB IS TO BE INSTALLED ADJACENT TO A CONCRETE CURB OR SIDEWALK, A COLD JOINT STRIP SHALL BE INSTALLED.
- 4) CONCRETE APRON SHALL BE REQUIRED WHERE THE FIRE HYDRANT IS INSTALLED IN AN UNPAVED LOCATION. THE APRON SHALL BE 4" THICK 520-C-2500 CONCRETE.
- 5) WHEN DISTANCE FROM THE FIRE HYDRANT TO THE TOP OR TOE OF THE SLOPE OR WALLS IS LESS THAN 2', SPECIAL HYDRANT INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS.
- 6) THE DISTANCE FROM THE FACE OF THE CURB TO THE CENTERLINE OF THE FIRE HYDRANT SHALL BE 2 1/2' MINIMUM.

SHEET 2 OF 3

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	01/12		<i>H. Hadi</i>
				<b>FIRE HYDRANT INSTALLATION</b>	COORDINATOR R.C.E. 65271 DATE
					DRAWING NUMBER



MARKERS – SHALL BE BLUE 2-WAY STIMSONITE LIFELITE 88AB OR EQUAL.  
 ADHESIVE – AN AMPLE AMOUNT OF 2 (A&B) EPOXY OR EQUAL.  
 SURFACES – CLEAN AND DRY TO INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.  
 INSTALL MARKERS WITH REFLECTIVE SURFACES FACING ONCOMING VEHICLES AND OFFSET 2" FROM LANE LINES TOWARD FIRE HYDRANT.



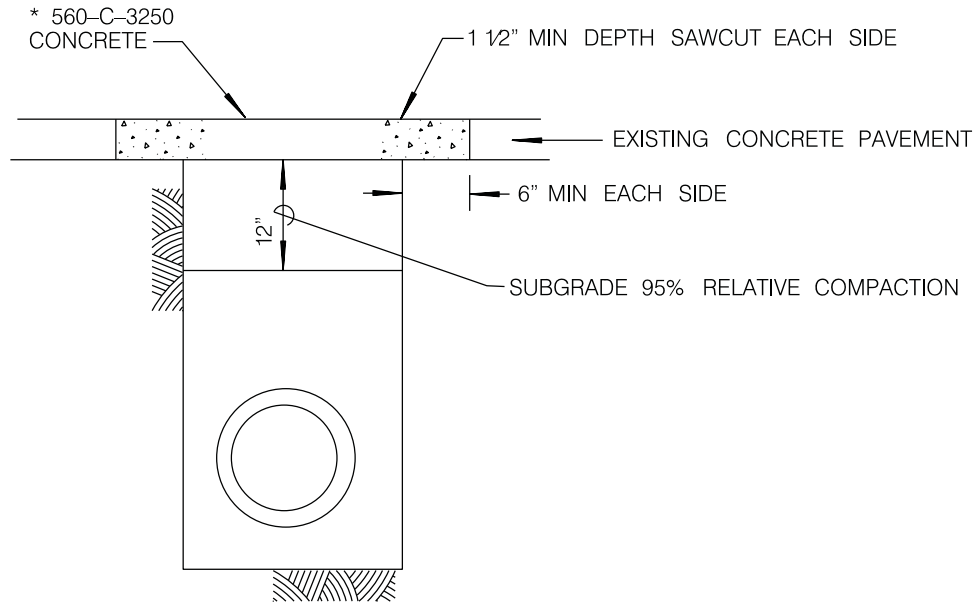
FIRE HYDRANT MARKERS

NOTES

1. FIRE DEPARTMENT WILL PROVIDE LOCATION(S) FOR ALL MARKERS IN PRD'S COMMERCIAL LOTS AND OTHER AREAS OUTSIDE OF PUBLIC RIGHT OF WAY.
2. MARKERS SHALL BE INSTALLED AT THE NEW AND RELOCATED HYDRANTS AND WITHIN ALL RESURFACING PROJECTS.
3. FOR STREETS WITHOUT LANE LINES OR STREETS WITH RAISED PAVEMENT MARKERS AND NO PAINTED LANE LINES, INSTALL MARKERS 6" FROM CENTERLINE OR EXISTING MARKERS.

SHEET 3 OF 3

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	01/12		<i>H. Hadli</i>
				<b>FIRE HYDRANT INSTALLATION</b>	COORDINATOR R.C.E. 65271 DATE
					DRAWING NUMBER <b>SDW-104</b>



**NOTES**

1. EXISTING CONCRETE PAVEMENT SHALL BE REMOVED.
2. PRIOR TO PLACING CONCRETE, PAVEMENT EDGES SHALL BE TRIMMED TO NEAT HORIZONTAL AND VERTICAL LINES.
3. UNLESS OTHERWISE SPECIFIED, CONCRETE TRENCH COVER SHALL BE A MINIMUM OF 5 1/2" FOR ALLEYS, 7" FOR LOCAL THROUGH FOUR LANE COLLECTOR STREETS AND 9" THICK FOR ALL MAJOR OR GREATER STREET CLASSIFICATIONS.
4. ANY STREET TRENCH 7' IN WIDTH OR GREATER AND LONGER THAN 100' IN LENGTH SHALL BE RECONSTRUCTED WITH THE PAVEMENT SECTION FOR THE STREET CLASSIFICATION PER SCHEDULE "J" (SDG-113). STREET TRENCH SECTIONS 7' IN WIDTH OR GREATER BUT LESS THAN 100' IN OVERALL LENGTH SHALL BE RESURFACED TO A THICKNESS OF 1" GREATER THAN REQUIRED BY NOTE 3 ABOVE.

\* IN FOUR-LANE MAJOR OR GREATER STREETS, AN APPROVED SET ACCELERATING ADMIXTURE SUCH AS CALCIUM CHLORIDE, SHALL BE USED IN THE CONCRETE.

REVISION	BY	APPROVED	DATE
ORIGINAL		J. CASEY	01/89
UPDATED	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO – STANDARD DRAWING

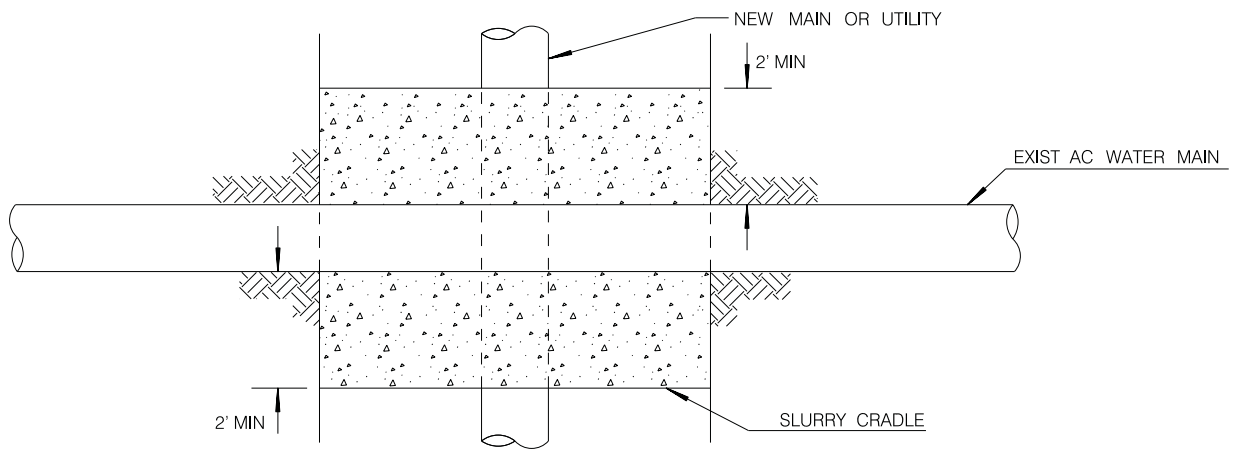
**TRENCH RESURFACING FOR PCC  
SURFACED STREETS**

Appendix H - Updated Standard Drawings Sewer and Water Group 788

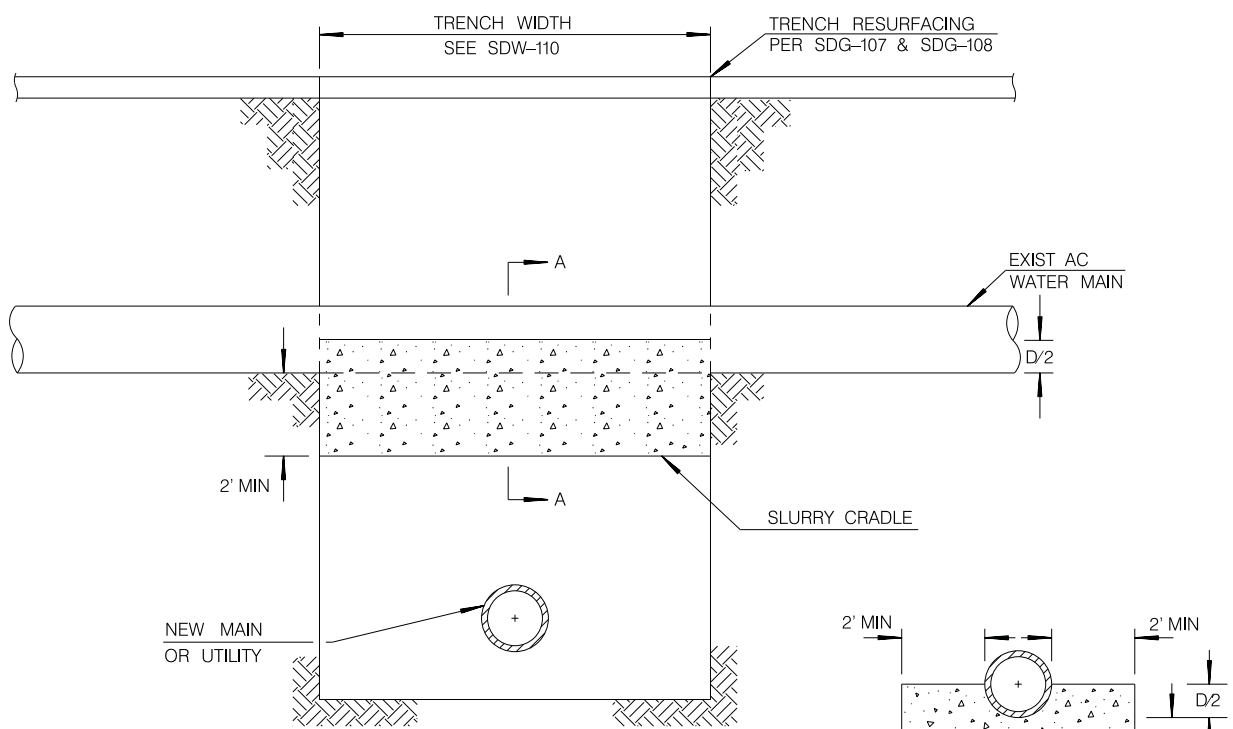
RECOMMENDED BY THE CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*H. Hadi* 1/31/2012  
COORDINATOR R.C.E. 65271 DATE

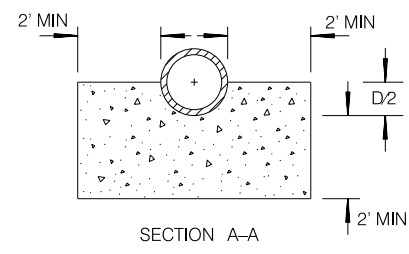
DRAWING NUMBER **SDG-108**



PLAN



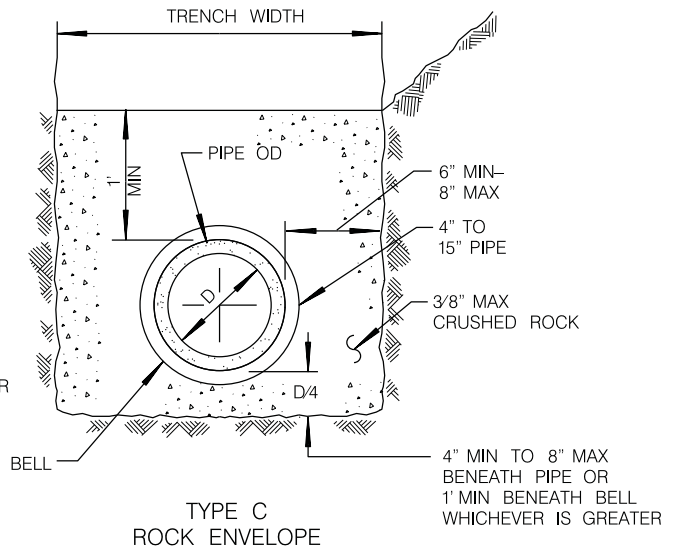
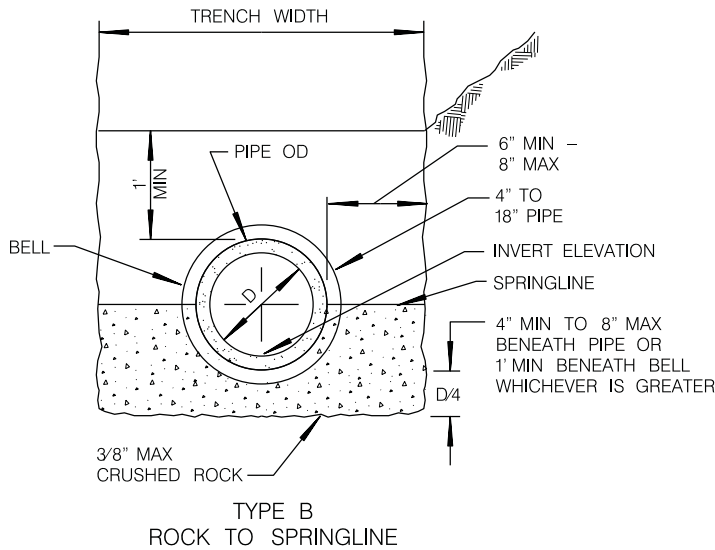
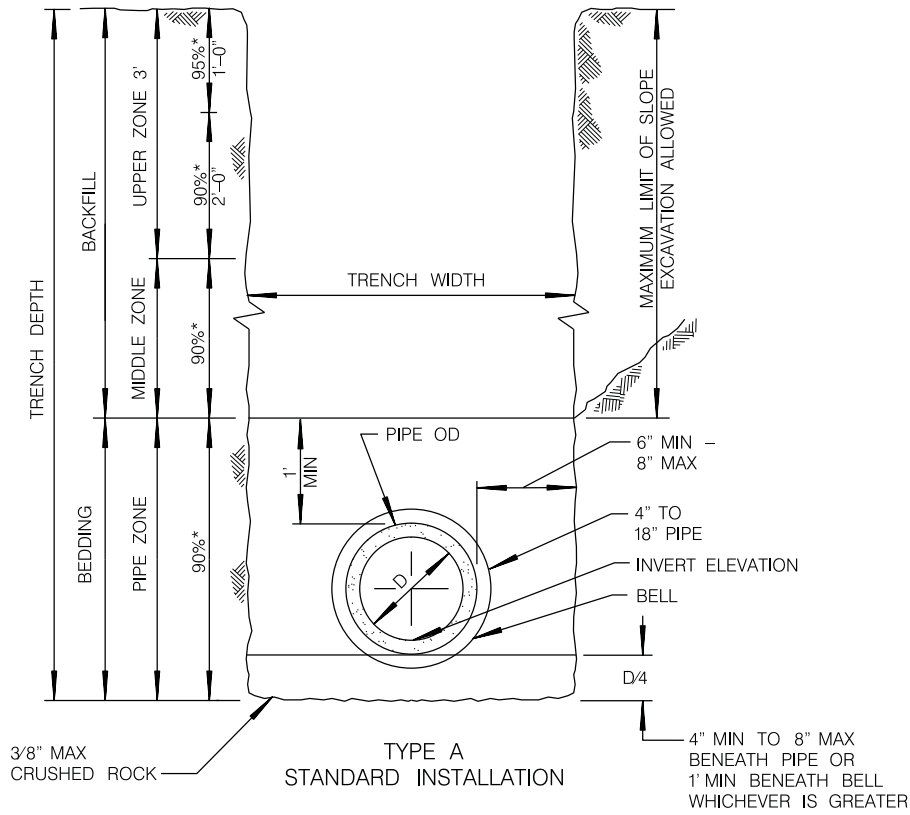
ELEVATION



SECTION A-A

- NOTES:
- 1) SLURRY SHALL BE CONTROLLED LOW STRENGTH MATERIAL CLSM (100-E-100)
  - 2) SLURRY SHALL BE PLACED ON FIRMLY COMPACTED BACKFILL

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	01/12		<b>PIPE SUPPORT FOR UNDERCUT AC WATER MAIN</b>
				DRAWING NUMBER <b>SDW-162</b>	
				<b>183   Page</b>	



**NOTES**

- FOR TRENCH RESURFACING IN IMPROVED STREETS, SEE STANDARD DRAWINGS SDG-107 AND SDG-108.
- (\*) INDICATES MINIMUM RELATIVE COMPACTION.
- MINIMUM DEPTH OF COVER FROM THE TOP OF PIPE TO FINISH GRADE FOR PVC SDR 35 SEWER MAIN SHALL BE 5'. FOR SHALLOWER DEPTH, SPECIAL DESIGN IS REQUIRED.
- SEE TYPE A INSTALLATION FOR DETAILS NOT SHOWN FOR TYPES B AND C.
- FOR PIPE SIZE ENCASEMENT LARGER THAN 15", MAXIMUM SIDE WALL CLEARANCE SHALL BE 12" OR AS SHOWN ON THE PLANS.
- 6" METAL TAPE SHALL BE INSTALLED ABOVE PIPE 4" BELOW TRENCH CAP AND 12" BELOW FINISH GRADE IN UNIMPROVED STREETS.
- 1' SAND CUSHION OR A 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD SHALL BE PLACED FOR CROSSINGS UTILITIES WHEN VERTICAL CLEARANCE IS 1' OR LESS. THE NEOPRENE PAD SHALL BE PLACED ON THE MOST FRAGILE UTILITY.

REVISION	BY	APPROVED	DATE
ORIGINAL	RA	A. OSKOUI	12/06
UPDATED	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO - STANDARD DRAWING

**PIPE BEDDING AND TRENCH BACKFILL  
FOR SEWERS**

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

*H. Hadali* 1/31/2012

COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDS-110**

## **APPENDIX I**

### **Sewer Mains and Manhole Rehabilitation Sample Data Templates**







# City of San Diego

## ADDENDUM "A"

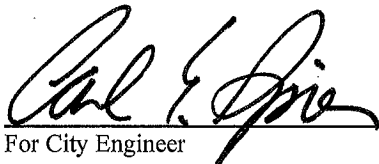
FOR

## SEWER AND WATER GROUP 788



BID NO.:	K-13-5371-DBB-3
SAP NO. (WBS/IO/CC):	B-00379 / B-00106
CLIENT DEPARTMENT:	2000
COUNCIL DISTRICT:	7
PROJECT TYPE:	JA / KA

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

  
For City Engineer

7-19-12  
Date

Seal:



**A. CHANGES TO THE BID SUBMITTAL DUE DATE AND TIME**

For which proposals will be received at the Public Works Contracting Group, 1200 Third Avenue, Suite 200, San Diego, California, until **2:00 PM on AUGUST 14<sup>th</sup>, 2012.**

**B. CHANGES TO CONTRACT DOCUMENTS**

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

**C. VOLUME 1:**

1. To SPECIAL NOTICE SMALL LOCAL BUSINESS ENTERPRISES (SLBE) AND EMERGING LOCAL BUSINESS ENTERPRISES (ELBE) PROGRAM, pages 6 through 12, **DELETE** in their entirety and **SUBSTITUTE** with pages 3 of 14 through 8 of 14 of this Addendum.

**D. VOLUME 2:**

1. To Bidding Documents, PROPOSAL (BID), pages 11 through 15, **DELETE** in their entirety and **SUBSTITUTE** with pages 9 of 14 through 14 of 14 of this Addendum.

Tony Heinrichs, Director  
Public Works Department

Dated: *July 19, 2012*,  
San Diego, California

TH/ar/ca/lji

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 EOCB 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 EOCB 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 EOCB 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 subcontractor/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 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            | 8.2 % |
| 2. ELBE participation            | 14.1% |
| 3. Total mandatory participation | 22.3% |



- 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 not** 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/>

**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of **Sewer and Water Group 788**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
1	1	LS	2-4.1	237110	Bonds (Payment and Performance)	<del>                    </del>	\$
2	1	EA	3-3.2.2	237110	Certified Payroll	\$	\$
3	1	LS	7-9.1.1	238990	Video Recording of Pre-existing Conditions	<del>                    </del>	\$
4	1	LS	7-10.2.7	237310	Traffic Control	<del>                    </del>	\$
5	1	LS	7-10.2.7	237310	Flashing Arrow Boards	<del>                    </del>	\$
6	1	AL	7-10.5.4	237310	Portable Changeable Message Signs (PCMS)	<del>                    </del>	\$6,000.00
7	1	LS	9-3.4.1	237110	Mobilization	<del>                    </del>	\$
8	1	AL	9-3.5	237110	Field Orders - Type II	<del>                    </del>	\$360,000.00
9	10	CY	300-1.4	237110	Additional Pavement Removal & Disposal	\$	\$
10	9	EA	301-1.7	237310	Adjusting Existing Gate Valve Cover to Grade	\$	\$
11	4,670	LF	302-1.12	237310	Cold Milling Asphalt Concrete Pavement	\$	\$
12	518,085	SF	302-4.5	237310	Ruberized Emulsion-Aggregate Slurry (REAS) Type II and Striping	\$	\$
13	40	TON	302-4.5	237310	AC Patching for Slurry Seal	\$	\$
14	1	LS	302-4.5.1	237310	Bond for REAS	<del>                    </del>	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
15	10,000	SF	302-5.1.2	237310	Damaged AC Pavement Replacement	\$	\$
16	2,560	TON	302-5.9	237310	1-1/2 Inch AC Overlay and Striping	\$	\$
17	500	SF	302-6.8	237310	Concrete Pavement Replacement	\$	\$
18	23,542	SY	302-7.4	237310	Pavement Fabric	\$	\$
19	2	EA	303-5.9	237310	Contractor Date Stamp and Impressions	\$	\$
20	100	LF	303-5.9	237310	Additional Curb & Gutter	\$	\$
21	500	SF	303-5.9	237310	Additional Sidewalk Removal & Replacement	\$	\$
22	11	EA	303-5.10.2	237310	Curb Ramp Type B, w/Composite Detectable Warning Tiles	\$	\$
23	52	EA	303-5.10.2	237310	Curb Ramp Type C1, w/Composite Detectable Warning Tiles	\$	\$
24	1	LS	306-1.1.6	237110	Trench Shoring	<del>\$</del>	\$
25	550	CY	306-1.2.1.1	237110	Additional Bedding	\$	\$
26	18,473	LF	306-1.4.8.8	237110	Televising Sewer Mains for acceptance	\$	\$
27	7,039	LF	306-1.4.8.8	237110	Cleaning & Televising of Existing Sewer Mains	\$	\$
28	1,200	TON	306-1.5.1	237110	Temporary Resurfacing	\$	\$
29	6,000	TON	306-1.6	237110	Imported Backfill	\$	\$
30	724	LF	306-1.6	237110	12-Inch Water Main Class 235	\$	\$
31	1,007	LF	306-1.6	237110	8-Inch Water Main Class 235	\$	\$
32	2	EA	306-1.6	237110	6-Inch Fire Hydrant Assembly & Marker	\$	\$
33	23	EA	306-1.6	237110	8-Inch Gate Valve	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
34	7	EA	306-1.6	237110	12-Inch Gate Valve	\$	\$
35	14,626	LF	306-1.6	237110	8-Inch Sewer Main	\$	\$
36	28	LF	306-1.6	237110	8-Inch VC Sewer Main	\$	\$
37	3,197	LF	306-1.6	237110	8-Inch SDR-26 Sewer Main	\$	\$
38	410	EA	306-1.7.1	237110	4-Inch Sewer Lateral & Cleanout (Street)	\$	\$
39	26	EA	306-1.7.2.5	237110	4-Inch Sewer Lateral with Private Replumbing & Cleanout	\$	\$
40	72	EA	306-1.8.6	237110	Manholes (4 x 3)	\$	\$
41	1	EA	306-1.8.6	237110	Manholes (5 x 3)	\$	\$
42	4	EA	306-1.8.6	237110	Connection to Existing Manhole and Rechanneling	\$	\$
43	11	EA	306-5.3	237110	Abandon Existing Manhole Outside of Trench	\$	\$
44	1,783	LF	306-5.3	237110	Abandon & Fill Existing 8" Sewer Outside of Trench Limits	\$	\$
45	5,256	LF	306-5.3	237110	Abandon & Fill Existing 6" Sewer Outside of Trench Limits	\$	\$
46	3	EA	306-13	237110	Abandon Water Services (Stiff)	\$	\$
47	20	EA	306-13.1	237110	Slurry Cradle to provide support where existing 6" or 8" AC Water Main Crossing with Proposed Sewer Main	\$	\$
48	6	EA	306-14.1	237110	1-Inch Water service	\$	\$
49	2	EA	306-18	237110	2-Inch Blowoff Valve Assembly	\$	\$
50	2	EA	306-19	237110	2-Inch Air & Vacuum Valve Assembly	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>	
51	302	LF	306-21.9	237110	8-Inch Sewer by Pipe Bursting	\$	\$	
52	320	LF	500-1.1.9	237110	Rehabilitate 8-Inch Sewer Main	\$	\$	
53	3	EA	500-1.6.2.6	237110	Service Lateral Connection	\$	\$	
54	1	EA	500-2.10.2	237110	Rehabilitate Existing Manhole No. 14	\$	\$	
55	900	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection	\$	\$	
56	1	LS	801-9.4	541330	Water Pollution Control Program Development	<del>                    </del>	\$	
57	1	LS	801-9.4	237990	Water Pollution Control Program Implementation	<del>                    </del>	\$	
58	1	LS	804-2.2	237110	Sewage Bypass & Pumping Plan (Diversion Plan)	<del>                    </del>	\$	
59	5	DAYS	807-1	541330	Work Suspension	\$	\$	
60	12,270	LF	807-1.2	541330	Archaeological and Native American Monitoring Program	\$	\$	
61	4,770	LF	807-1.3	541330	Paleontological Monitoring Program	\$	\$	
62	1	AL	807-1.4	541330	Archaeological and Native American Mitigation & Curation	<del>                    </del>	\$30,000.00	
63	200	CY	807-1.5	541330	Paleontological Mitigation and Excavation	\$	\$	
<b>ESTIMATED TOTAL BASE BID</b>							<b>\$</b>	
<b>ADDITIVE ALTERNATE "A"</b>								
1	1	LS	700-1.2.2.10	237110	Highlining by the Contractor	<del>                    </del>	\$	
2	724	LF	700-1.2.1.3	237110	Highlining Removed by Contractor	\$	\$	
3	12	EA	700-1.3.2.10	237110	8-Inch Through 12-Inch Connections To The Existing System By Contractor	\$	\$	

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
4	4	EA	700-1.3.2.10	237110	8-Inch Through 12-Inch Cut-in Tee or Cross by Contractor	\$	\$	
5	5	EA	700-1.4.9	237110	Cut And Plug Existing System By Contractor	\$	\$	
6	1	LS	700-1.4.9	237110	Contractor Furnished Materials for the City Forces Highline Work	<del>                    </del>	\$	
7	-900	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection (Base Bid Item 55)	\$	\$	
<b>ESTIMATED TOTAL ADDITIVE ALTERNATE "A":</b>							\$	\$
<b>ESTIMATED TOTAL BASE BID + ADDITIVE ALTERNATE "A":</b>							\$	\$

TOTAL BID PRICE FOR BID (Items 1 through 63 PLUS Alternate "A", Items 1 through 7, inclusive) amount written in words:

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on this Bid form.

List the Addenda received and being acknowledged: \_\_\_\_\_

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**.

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

---

**BIDDING DOCUMENTS**

---

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

Bidder: \_\_\_\_\_

Title: \_\_\_\_\_

Business Address: \_\_\_\_\_

Place of Business: \_\_\_\_\_

Place of Residence: \_\_\_\_\_

Signature: \_\_\_\_\_

**NOTES:**

- A. The City shall determine the low Bid based on the Base Bid PLUS Additive Alternate "A."
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid alone or if applicable, for the Base Bid plus any combination of alternates selected in the City's sole discretion.
- C. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- D. Failure to initial all corrections made in the bidding documents shall cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- E. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- H. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- I. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

8/21/12 CW



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

<sup>21</sup>  
Date: August 21, 2012

The following page (including this cover) are intended for:

**FROM:** Lucy Ortiz  
**To:** Estimator  
**Company:** Ortiz Corporation  
**FAX #** (619) 434-7931  
**Phone #** (619) 434-7925

**TO:**  
**From:** Celia Navarro  
**Division:** Contracting Division  
**FAX #** 619-236-5904  
**Phone #** 619-236-6129

**RE: Bid # K-13-5371-DBB-3 - Sewer and Water Group 788**

COMMENTS:

In tabulating the bid results of subject project, we have found that the ESTIMATED TOTAL BASE BID is \$3,679,004.70 NOT \$3,689,804.70 as per your bid. Ortiz Corporation acknowledges/accepts corrected total Base plus Alt "A" as \$3,679,004.70 08/21/12

Please FAX acknowledgement/concurrence of the correct amount, by 4:00pm today.

AIDA BANGHART - VICE PRESIDENT

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. 1 of 1 pgs

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.

If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us at the above address via the U.S. Postal Service.



**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of **Sewer and Water Group 788**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
1	1	LS	2-4.1	237110	Bonds (Payment and Performance)	<del>                    </del>	\$ 27,000.00
2	1	EA	3-3.2.2	237110	Certified Payroll	\$ 150.00	\$ 150.00
3	1	LS	7-9.1.1	238990	Video Recording of Pre-existing Conditions	<del>                    </del>	\$ 2,860.00
4	1	LS	7-10.2.7	237310	Traffic Control	<del>                    </del>	\$ 12,000.00
5	1	LS	7-10.2.7	237310	Flashing Arrow Boards	<del>                    </del>	\$ 1,500.00
6	1	AL	7-10.5.4	237310	Portable Changeable Message Signs (PCMS)	<del>                    </del>	\$6,000.00
7	1	LS	9-3.4.1	237110	Mobilization	<del>                    </del>	\$ 9,500.00
8	1	AL	9-3.5	237110	Field Orders - Type II	<del>                    </del>	\$360,000.00
9	10	CY	300-1.4	237110	Additional Pavement Removal & Disposal	\$ 40.00	\$ 400.00
10	9	EA	301-1.7	237310	Adjusting Existing Gate Valve Cover to Grade	\$ 300.00	\$ 2,700.00
11	4,670	LF	302-1.12	237310	Cold Milling Asphalt Concrete Pavement	\$ 1.80	\$ 8,406.00
12	518,085	SF	302-4.5	237310	Ruberized Emulsion-Aggregate Slurry (REAS) Type II and Striping	\$ 0.46	\$ 238,319.10
13	40	TON	302-4.5	237310	AC Patching for Slurry Seal	\$ 250.00	\$ 10,000.00
14	1	LS	302-4.5.1	237310	Bond for REAS	<del>                    </del>	\$ 150.00

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
15	10,000	SF	302-5.1.2	237310	Damaged AC Pavement Replacement	\$ 4.85	\$ 48,500.00
16	2,560	TON	302-5.9	237310	1-1/2 Inch AC Overlay and Striping	\$ 89.00	\$ 227,840.00
17	500	SF	302-6.8	237310	Concrete Pavement Replacement	\$ 7.00	\$ 3,500.00
18	23,542	SY	302-7.4	237310	Pavement Fabric	\$ 2.40	\$ 56,500.80
19	2	EA	303-5.9	237310	Contractor Date Stamp and Impressions	\$ 160.00	\$ 320.00
20	100	LF	303-5.9	237310	Additional Curb & Gutter	\$ 26.00	\$ 2,600.00
21	500	SF	303-5.9	237310	Additional Sidewalk Removal & Replacement	\$ 5.50	\$ 2,750.00
22	11	EA	303-5.10.2	237310	Curb Ramp Type B, w/Composite Detectable Warning Tiles	\$ 2,100.00	\$ 23,100.00
23	52	EA	303-5.10.2	237310	Curb Ramp Type C1, w/Composite Detectable Warning Tiles	\$ 2,050.00	\$ 106,600.00
24	1	LS	306-1.1.6	237110	Trench Shoring	<del>\$</del>	\$ 9,000.00
25	550	CY	306-1.2.1.1	237110	Additional Bedding	\$ 12.00	\$ 6,600.00
26	18,473	LF	306-1.4.8.8	237110	Televising Sewer Mains for acceptance	\$ 0.65	\$ 12,007.45
27	7,039	LF	306-1.4.8.8	237110	Cleaning & Televising of Existing Sewer Mains	\$ 1.15	\$ 8,094.85
28	1,200	TON	306-1.5.1	237110	Temporary Resurfacing	\$ 88.00	\$ 105,600.00
29	6,000	TON	306-1.6	237110	Imported Backfill	\$ 1.00	\$ 6,000.00
30	724	LF	306-1.6	237110	12-Inch Water Main Class 235	\$ 80.00	\$ 57,920.00
31	1,007	LF	306-1.6	237110	8-Inch Water Main Class 235	\$ 60.00	\$ 60,420.00
32	2	EA	306-1.6	237110	6-Inch Fire Hydrant Assembly & Marker	\$ 4,800.00	\$ 9,600.00
33	23	EA	306-1.6	237110	8-Inch Gate Valve	\$ 1,300.00	\$ 29,900.00

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
34	7	EA	306-1.6	237110	12-Inch Gate Valve	\$ 1,850.00	\$ 12,950.00
35	14,626	LF	306-1.6	237110	8-Inch Sewer Main	\$ 54.00	\$ 789,804.00
36	28	LF	306-1.6	237110	8-Inch VC Sewer Main	\$ 75.00	\$ 2,100.00
37	3,197	LF	306-1.6	237110	8-Inch SDR-26 Sewer Main	\$ 56.00	\$ 179,032.00
38	410	EA	306-1.7.1	237110	4-Inch Sewer Lateral & Cleanout (Street)	\$ 1,400.00	\$ 574,000.00
39	26	EA	306-1.7.2.5	237110	4-Inch Sewer Lateral with Private Replumbing & Cleanout	\$ 6,000.00	\$ 156,000.00
40	72	EA	306-1.8.6	237110	Manholes (4 x 3)	\$ 2,500.00	\$ 180,000.00
41	1	EA	306-1.8.6	237110	Manholes (5 x 3)	\$ 3,100.00	\$ 3,100.00
42	4	EA	306-1.8.6	237110	Connection to Existing Manhole and Rechanneling	\$ 1,250.00	\$ 5,000.00
43	11	EA	306-5.3	237110	Abandon Existing Manhole Outside of Trench	\$ 1,100.00	\$ 12,100.00
44	1,783	LF	306-5.3	237110	Abandon & Fill Existing 8" Sewer Outside of Trench Limits	\$ 5.00	\$ 8,915.00
45	5,256	LF	306-5.3	237110	Abandon & Fill Existing 6" Sewer Outside of Trench Limits	\$ 3.00	\$ 15,768.00
46	3	EA	306-13	237110	Abandon Water Services (Stiff)	\$ 550.00	\$ 1,650.00
47	20	EA	306-13.1	237110	Slurry Cradle to provide support where existing 6" or 8" AC Water Main Crossing with Proposed Sewer Main	\$ 500.00	\$ 10,000.00
48	6	EA	306-14.1	237110	1-Inch Water service	\$ 1,450.00	\$ 8,700.00
49	2	EA	306-18	237110	2-Inch Blowoff Valve Assembly	\$ 3,600.00	\$ 7,200.00
50	2	EA	306-19	237110	2-Inch Air & Vacuum Valve Assembly	\$ 4,000.00	\$ 8,000.00

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
51	302	LF	306-21.9	237110	8-Inch Sewer by Pipe Bursting	\$ 90.00	\$ 27,180.00	
52	320	LF	500-1.1.9	237110	Rehabilitate 8-Inch Sewer Main	\$ 47.50	\$ 15,200.00	
53	3	EA	500-1.6.2.6	237110	Service Lateral Connection	\$ 1,600.00	\$ 4,800.00	
54	1	EA	500-2.10.2	237110	Rehabilitate Existing Manhole No. 14	\$ 6,000.00	\$ 6,000.00	
55	900	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection	\$ 12.00	\$ 10,800.00	
56	1	LS	801-9.4	541330	Water Pollution Control Program Development	<del>                    </del>	\$ 750.00	
57	1	LS	801-9.4	237990	Water Pollution Control Program Implementation	<del>                    </del>	\$ 3,200.00	
58	1	LS	804-2.2	237110	Sewage Bypass & Pumping Plan (Diversion Plan)	<del>                    </del>	\$ 7,500.00	
59	5	DAYS	807-1	541330	Work Suspension	\$ 150.00	\$ 750.00	
60	12,270	LF	807-1.2	541330	Archaeological and Native American Monitoring Program	\$ 5.00	\$ 61,350.00	
61	4,770	LF	807-1.3	541330	Paleontological Monitoring Program	\$ 1.55	\$ 7,393.50	
62	1	AL	807-1.4	541330	Archaeological and Native American Mitigation & Curation	<del>                    </del>	\$30,000.00	
63	200	CY	807-1.5	541330	Paleontological Mitigation and Excavation	\$ 55.00	\$ 11,000.00	
<b>ESTIMATED TOTAL BASE BID</b>								\$ 3,616,080.70
<b>ADDITIVE ALTERNATE "A"</b>								
1	1	LS	700-1.2.2.10	237110	Highlining by the Contractor	<del>                    </del>	\$ 3,500.00	
2	724	LF	700-1.2.1.3	237110	Highlining Removed by Contractor	\$ 1.00	\$ 724.00	
3	12	EA	700-1.3.2.10	237110	8-Inch Through 12-Inch Connections To The Existing System By Contractor	\$ 3,000.00	\$ 36,000.00	

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
4	4	EA	700-1.3.2.10	237110	8-Inch Through 12-Inch Cut-in Tee or Cross by Contractor	\$ 5,000.00	\$ 20,000.00	
5	5	EA	700-1.4.9	237110	Cut And Plug Existing System By Contractor	\$ 2,000.00	\$ 10,000.00	
6	1	LS	700-1.4.9	237110	Contractor Furnished Materials for the City Forces Highline Work	X	\$ 3,500.00	
7	-900	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection (Base Bid Item 55)	\$ 12.00	\$ -10,800.00	
<b>ESTIMATED TOTAL ADDITIVE ALTERNATE "A":</b>							\$	62,924.00
<b>ESTIMATED TOTAL BASE BID + ADDITIVE ALTERNATE "A":</b>							\$	3,689,804.70

*\$ 3,679,004.70 CW*

TOTAL BID PRICE FOR BID (Items 1 through 63 PLUS Alternate "A", Items 1 through 7, inclusive) amount written in words:

THREE MILLION, SIX HUNDRED EIGHTY NINE THOUSAND, EIGHT HUNDRED FOUR DOLLARS & SEVENTY CENTS *Handwritten mark*

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on this Bid form.

List the Addenda received and being acknowledged: A

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.

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

MARCELINO E. ORTIZ-PRESIDENT

AIDA BANGHART-VICE PRESIDENT

TERESA O. ORTIZ-SECRETARY

*2 of 2 pages*

# City of San Diego

CONTRACTOR'S NAME: ORTIZ CORPORATION  
ADDRESS: 2000 MC KINLEY AVENUE, NATIONAL CITY, CA 91950  
TELEPHONE NO.: 619-434-7925 FAX NO.: 619-434-7931  
CITY CONTACT: Bijan Shakiba 600 B Street Ste 800 M.S. 908A, San Diego CA 92101  
Email: bshakiba@sandiego.gov Ph (619) 533-5191 Fax (619) 533-5176  
AR/LJ/CA

## CONTRACT DOCUMENTS



## FOR

## SEWER AND WATER GROUP 788

VOLUME 2 OF 2

BID NO.:	<u>K-13-5371-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-00379 / B-00106</u>
CLIENT DEPARTMENT:	<u>2000</u>
COUNCIL DISTRICT:	<u>7</u>
PROJECT TYPE:	<u>JA / KA</u>

**THIS CONTRACT IS SUBJECT TO THE FOLLOWING:**

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

**THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY  
REFER TO INVITATION TO BIDS FOR TIME, DATE, AND LOCATION**

# TABLE OF CONTENTS

## Volume 2 - Bidding Documents

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

<u>DESCRIPTION</u>	<u>PAGE NUMBER</u>
1. Proposal .....	3 - 6
2. Bid Bond .....	7
3. Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid .....	8
4. Contractors Certification of Pending Actions .....	9
5. Equal Benefits Ordinance Certification of Compliance.....	10
6. Proposal (Bid) .....	11 - 15
7. Form AA35 - List of Subcontractors .....	16
8. Form AA40 - Named Equipment/Material Supplier List .....	17
9. Form AA45 - Subcontractors Additive/Deductive Alternate.....	18

**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   N/A
- (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   N/A
- (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) \_\_\_\_\_

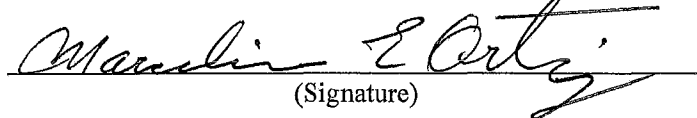
(5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

(6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

**IF A CORPORATION, SIGN HERE:**

(1) Name under which business is conducted ORTIZ CORPORATION

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

  
(Signature)

MARCELINO E. ORTIZ  
(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) 2000 MC KINLEY AVENUE

(5) City and State NATIONAL CITY, CA Zip Code 91950

(6) Telephone No. 619-434-7925 Facsimile No. 619-434-7931

**BIDDING DOCUMENTS**

---

**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.   602454   EXPIRES   SEPTEMBER 30TH  , 2  012  

This license classification must also be shown on the front of the bid envelope. Failure to show license classification on the bid envelope may cause return of the bid unopened.

TAX IDENTIFICATION NUMBER (TIN):   [REDACTED]  

E-Mail Address:   LUCY@ORTIZCORPORATION.COM / JOSE@ORTIZCORPORATION.COM

**BIDDING DOCUMENTS**

**THIS PROPOSAL MUST BE NOTARIZED BELOW:**

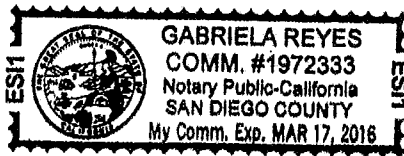
I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature *Marcelo Cortez* Title PRESIDENT

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 14<sup>th</sup> DAY OF AUGUST, 2012.

Notary Public in and for the County of SAN DIEGO, State of CALIFORNIA

\_\_\_\_\_  
(NOTARIAL SEAL)



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

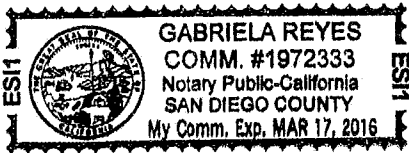
State of California

County of SAN DIEGO

On 08/14/12 before me, GABRIELA REYES - NOTARY PUBLIC  
Date Here Insert Name and Title of the Officer

personally appeared MARCELINO E ORTIZ  
Name(s) of Signor(s)

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



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

WITNESS my hand and official seal.

Signature Gabriela Reyes  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

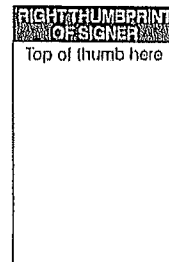
**Description of Attached Document** BID #K-13-5371-DBB-3  
Title or Type of Document: SEWER & WATER GROUP 788- CONTRACT BIDDING DOCUMENTS  
Document Date: 08/14/12 Number of Pages: 1 (ONE)  
Signer(s) Other Than Named Above: N/A

**Capacity(ies) Claimed by Signer(s)**

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



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



**BIDDING DOCUMENTS**

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS,

That Ortiz Corporation as Principal, and  
International Fidelity 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

Sewer and Water Group 788

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 25th day of July, 2012

Ortiz Corporation (SEAL) International Fidelity Insurance Company (SEAL)  
(Principal) (Surety)

By: Marcelino Ortiz  
(Signature)  
Marcelino E. Ortiz, President

By: Sioux Munyon  
(Signature)  
Sioux Munyon, Attorney-In-Fact

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

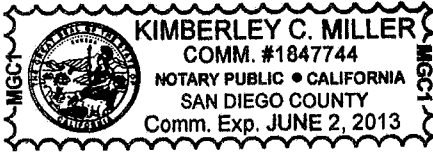
State of California

County of San Diego

On July 25, 2012 before me, Kimberley C. Miller, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Sioux Munyon  
Name(s) of Signer(s)

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



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

WITNESS my hand and official seal.

Signature: *Kimberley C. Miller*  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_ Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_  Corporate Officer — Title(s): \_\_\_\_\_

Individual  Partner —  Limited  General  Individual  Partner —  Limited  General

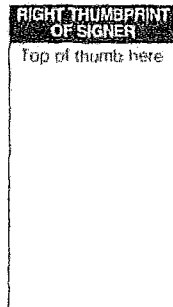
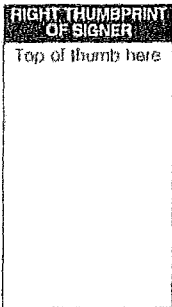
Attorney in Fact  Attorney in Fact

Trustee  Trustee

Guardian or Conservator  Guardian or Conservator

Other: \_\_\_\_\_  Other: \_\_\_\_\_

\_\_\_\_\_  
 Signer Is Representing: \_\_\_\_\_ Signer Is Representing: \_\_\_\_\_



# POWER OF ATTORNEY INTERNATIONAL FIDELITY INSURANCE COMPANY

HOME OFFICE: ONE NEWARK CENTER, 20TH FLOOR  
NEWARK, NEW JERSEY 07102-5207

KNOW ALL MEN BY THESE PRESENTS: That INTERNATIONAL FIDELITY INSURANCE COMPANY, a corporation organized and existing laws of the State of New Jersey, and having its principal office in the City of Newark, New Jersey, does hereby constitute and appoint

CYNDI BEILMAN, SIGUX MUNYON, ANNE WRIGHT

La Mesa, CA.

its true and lawful attorney(s) in fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said INTERNATIONAL FIDELITY INSURANCE COMPANY, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of Article 3-Section 3, of the By-Laws adopted by the Board of Directors of INTERNATIONAL FIDELITY INSURANCE COMPANY at a meeting called and held on the 7th day of February, 1974.

The President or any Vice President, Executive Vice President, Secretary or Assistant Secretary, shall have power and authority

- (1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof and,
- (2) To remove, at any time, any such attorney-in-fact and revoke the authority given.

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the 29th day of April, 1982 of which the following is a true excerpt:

Now, therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.



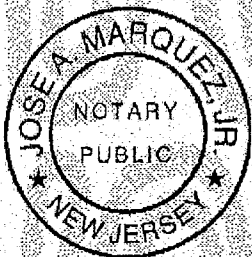
IN TESTIMONY WHEREOF, INTERNATIONAL FIDELITY INSURANCE COMPANY has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, this 16th day of October, A.D. 2007

INTERNATIONAL FIDELITY INSURANCE COMPANY

STATE OF NEW JERSEY  
County of Essex

Secretary

On this 16th day of October, 2007, before me came the individual who executed the preceding instrument, to me personally known, and being by me duly sworn, said he is the therein described and authorized officer of the INTERNATIONAL FIDELITY INSURANCE COMPANY; that the seal affixed to said instrument is the Corporate Seal of said Company; that the said Corporate Seal and his signature were duly affixed by order of the Board of Directors of said Company.



IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal at the City of Newark, New Jersey the day and year first above written.

A NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Nov. 21, 2010

### CERTIFICATION

I, the undersigned officer of INTERNATIONAL FIDELITY INSURANCE COMPANY do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney, with the ORIGINALS ON IN THE HOME OFFICE OF SAID COMPANY, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 25th day of July, 2012

Assistant Secretary





**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of SAN DIEGO

On 08/14/12  
Date

before me,

GABRIELA REYES - NOTARY PUBLIC  
Here Insert Name and Title of the Officer

personally appeared

MARCELINO E ORTIZ  
Name(s) of Signer(s)

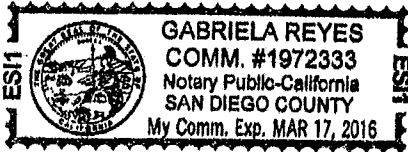
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s),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

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

WITNESS my hand and official seal.

Signature

Signature of Notary Public



Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

BID #K-13-5371-DBB-3

Title or Type of Document:

SEWER & WATER GROUP 788-NON COLLUSION AFFIDAVIT/BIDDING DOCMTS

Document Date: 08/14/12

Number of Pages: 1 (ONE)

Signer(s) Other Than Named Above: N/A

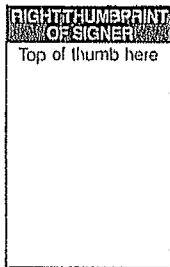
**Capacity(ies) Claimed by Signer(s)**

N/A

N/A

Signer's Name: \_\_\_\_\_

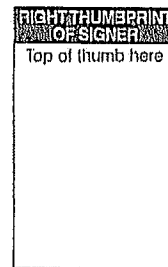
- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

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



Signer Is Representing: \_\_\_\_\_

**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.**

- 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:

---

---

---

---

---

---

---

---

---

---

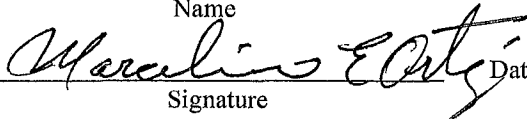
---

---

Contractor Name: ORTIZ CORPORATION

Certified By MARCELINO E. ORTIZ Title PRESIDENT

Name



Signature

Date 08/14/12

**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: <b>ORTIZ CORPORATION</b>	Contact Name: <b>LUCY ORTIZ</b>
Company Address: <b>2000 MC KINLEY AVENUE</b>	Contact Phone: <b>619-434-7931</b>
<b>NATIONAL CITY, CA 91950</b>	Contact Email: <b>Lucy@ortizcorporation.com</b>

**CONTRACT INFORMATION**

Contract Title: <b>SEWER &amp; WATER GROUP 788</b>	Start Date: <b>OCT 2012</b>
Contract Number (if no number, state location): <b>K-13-5243-DBB-3-B</b>	End Date: <b>JAN 2014</b>

**SUMMARY OF EQUAL BENEFITS ORDINANCE REQUI REMENTS**

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
  - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
  - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at [www.sandiego.gov/administration](http://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.

**MARCELINO E. ORTIZ / PRESIDENT**

*Marcelino E. Ortiz*

**08/14/12**

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 **Sewer and Water Group 788**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
1	1	LS	2-4.1	237110	Bonds (Payment and Performance)	<del>                    </del>	\$ 27,000.00
2	1	EA	3-3.2.2	237110	Certified Payroll	\$ 150.00	\$ 150.00
3	1	LS	7-9.1.1	238990	Video Recording of Pre-existing Conditions	<del>                    </del>	\$ 2,860.00
4	1	LS	7-10.2.7	237310	Traffic Control	<del>                    </del>	\$ 12,000.00
5	1	LS	7-10.2.7	237310	Flashing Arrow Boards	<del>                    </del>	\$ 1,500.00
6	1	AL	7-10.5.4	237310	Portable Changeable Message Signs (PCMS)	<del>                    </del>	\$6,000.00
7	1	LS	9-3.4.1	237110	Mobilization	<del>                    </del>	\$ 9,500.00
8	1	AL	9-3.5	237110	Field Orders - Type II	<del>                    </del>	\$360,000.00
9	10	CY	300-1.4	237110	Additional Pavement Removal & Disposal	\$ 40.00	\$ 400.00
10	9	EA	301-1.7	237310	Adjusting Existing Gate Valve Cover to Grade	\$ 300.00	\$ 2,700.00
11	4,670	LF	302-1.12	237310	Cold Milling Asphalt Concrete Pavement	\$ 1.80	\$ 8,406.00
12	518,085	SF	302-4.5	237310	Ruberized Emulsion-Aggregate Slurry (REAS) Type II and Striping	\$ 0.46	\$ 238,319.10
13	40	TON	302-4.5	237310	AC Patching for Slurry Seal	\$ 250.00	\$ 10,000.00
14	1	LS	302-4.5.1	237310	Bond for REAS	<del>                    </del>	\$ 150.00

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
15	10,000	SF	302-5.1.2	237310	Damaged AC Pavement Replacement	\$ 4.85	\$ 48,500.00
16	2,560	TON	302-5.9	237310	1-1/2 Inch AC Overlay and Striping	\$ 89.00	\$ 227,840.00
17	500	SF	302-6.8	237310	Concrete Pavement Replacement	\$ 7.00	\$ 3,500.00
18	23,542	SY	302-7.4	237310	Pavement Fabric	\$ 2.40	\$ 56,500.80
19	2	EA	303-5.9	237310	Contractor Date Stamp and Impressions	\$ 160.00	\$ 320.00
20	100	LF	303-5.9	237310	Additional Curb & Gutter	\$ 26.00	\$ 2,600.00
21	500	SF	303-5.9	237310	Additional Sidewalk Removal & Replacement	\$ 5.50	\$ 2,750.00
22	11	EA	303-5.10.2	237310	Curb Ramp Type B, w/Composite Detectable Warning Tiles	\$ 2,100.00	\$ 23,100.00
23	52	EA	303-5.10.2	237310	Curb Ramp Type C1, w/Composite Detectable Warning Tiles	\$ 2,050.00	\$ 106,600.00
24	1	LS	306-1.1.6	237110	Trench Shoring	<del>\$</del>	\$ 9,000.00
25	550	CY	306-1.2.1.1	237110	Additional Bedding	\$ 12.00	\$ 6,600.00
26	18,473	LF	306-1.4.8.8	237110	Televising Sewer Mains for acceptance	\$ 0.65	\$ 12,007.45
27	7,039	LF	306-1.4.8.8	237110	Cleaning & Televising of Existing Sewer Mains	\$ 1.15	\$ 8,094.85
28	1,200	TON	306-1.5.1	237110	Temporary Resurfacing	\$ 88.00	\$ 105,600.00
29	6,000	TON	306-1.6	237110	Imported Backfill	\$ 1.00	\$ 6,000.00
30	724	LF	306-1.6	237110	12-Inch Water Main Class 235	\$ 80.00	\$ 57,920.00
31	1,007	LF	306-1.6	237110	8-Inch Water Main Class 235	\$ 60.00	\$ 60,420.00
32	2	EA	306-1.6	237110	6-Inch Fire Hydrant Assembly & Marker	\$ 4,800.00	\$ 9,600.00
33	23	EA	306-1.6	237110	8-Inch Gate Valve	\$ 1,300.00	\$ 29,900.00

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
34	7	EA	306-1.6	237110	12-Inch Gate Valve	\$ 1,850.00	\$ 12,950.00
35	14,626	LF	306-1.6	237110	8-Inch Sewer Main	\$ 54.00	\$ -789,804.00
36	28	LF	306-1.6	237110	8-Inch VC Sewer Main	\$ 75.00	\$ 2,100.00
37	3,197	LF	306-1.6	237110	8-Inch SDR-26 Sewer Main	\$ 56.00	\$ 179,032.00
38	410	EA	306-1.7.1	237110	4-Inch Sewer Lateral & Cleanout (Street)	\$ 1,400.00	\$ 574,000.00
39	26	EA	306-1.7.2.5	237110	4-Inch Sewer Lateral with Private Replumbing & Cleanout	\$ 6,000.00	\$ 156,000.00
40	72	EA	306-1.8.6	237110	Manholes (4 x 3)	\$ 2,500.00	\$ 180,000.00
41	1	EA	306-1.8.6	237110	Manholes (5 x 3)	\$ 3,100.00	\$ 3,100.00
42	4	EA	306-1.8.6	237110	Connection to Existing Manhole and Rechanneling	\$ 1,250.00	\$ 5,000.00
43	11	EA	306-5.3	237110	Abandon Existing Manhole Outside of Trench	\$ 1,100.00	\$ 12,100.00
44	1,783	LF	306-5.3	237110	Abandon & Fill Existing 8" Sewer Outside of Trench Limits	\$ 5.00	\$ 8,915.00
45	5,256	LF	306-5.3	237110	Abandon & Fill Existing 6" Sewer Outside of Trench Limits	\$ 3.00	\$ 15,768.00
46	3	EA	306-13	237110	Abandon Water Services (Stiff)	\$ 550.00	\$ 1,650.00
47	20	EA	306-13.1	237110	Slurry Cradle to provide support where existing 6" or 8" AC Water Main Crossing with Proposed Sewer Main	\$ 500.00	\$ 10,000.00
48	6	EA	306-14.1	237110	1-Inch Water service	\$ 1,450.00	\$ 8,700.00
49	2	EA	306-18	237110	2-Inch Blowoff Valve Assembly	\$ 3,600.00	\$ 7,200.00
50	2	EA	306-19	237110	2-Inch Air & Vacuum Valve Assembly	\$ 4,000.00	\$ 8,000.00

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
51	302	LF	306-21.9	237110	8-Inch Sewer by Pipe Bursting	\$ 90.00	\$ 27,180.00
52	320	LF	500-1.1.9	237110	Rehabilitate 8-Inch Sewer Main	\$ 47.50	\$ 15,200.00
53	3	EA	500-1.6.2.6	237110	Service Lateral Connection	\$ 1,600.00	\$ 4,800.00
54	1	EA	500-2.10.2	237110	Rehabilitate Existing Manhole No. 14	\$ 6,000.00	\$ 6,000.00
55	900	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection	\$ 12.00	\$ 10,800.00
56	1	LS	801-9.4	541330	Water Pollution Control Program Development	<del>                    </del>	\$ 750.00
57	1	LS	801-9.4	237990	Water Pollution Control Program Implementation	<del>                    </del>	\$ 3,200.00
58	1	LS	804-2.2	237110	Sewage Bypass & Pumping Plan (Diversion Plan)	<del>                    </del>	\$ 7,500.00
59	5	DAYS	807-1	541330	Work Suspension	\$ 150.00	\$ 750.00
60	12,270	LF	807-1.2	541330	Archaeological and Native American Monitoring Program	\$ 5.00	\$ 61,350.00
61	4,770	LF	807-1.3	541330	Paleontological Monitoring Program	\$ 1.55	\$ 7,393.50
62	1	AL	807-1.4	541330	Archaeological and Native American Mitigation & Curation	<del>                    </del>	\$30,000.00
63	200	CY	807-1.5	541330	Paleontological Mitigation and Excavation	\$ 55.00	\$ 11,000.00
<b>ESTIMATED TOTAL BASE BID</b>							<b>\$ 3,616,080.70</b>
<b>ADDITIVE ALTERNATE "A"</b>							
1	1	LS	700-1.2.2.10	237110	Highlining by the Contractor	<del>                    </del>	\$ 3,500.00
2	724	LF	700-1.2.1.3	237110	Highlining Removed by Contractor	\$ 1.00	\$ 724.00
3	12	EA	700-1.3.2.10	237110	8-Inch Through 12-Inch Connections To The Existing System By Contractor	\$ 3,000.00	\$ 36,000.00

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
4	4	EA	700-1.3.2.10	237110	8-Inch Through 12-Inch Cut-in Tee or Cross by Contractor	\$ 5,000.00	\$ 20,000.00	
5	5	EA	700-1.4.9	237110	Cut And Plug Existing System By Contractor	\$ 2,000.00	\$ 10,000.00	
6	1	LS	700-1.4.9	237110	Contractor Furnished Materials for the City Forces Highline Work	X	\$ 3,500.00	
7	-900	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection (Base Bid Item 55)	\$ 12.00	\$ -10,800.00	
<b>ESTIMATED TOTAL ADDITIVE ALTERNATE "A":</b>							\$	62,924.00
<b>ESTIMATED TOTAL BASE BID + ADDITIVE ALTERNATE "A":</b>							\$	<del>3,689,804.70</del>

\$ 3,679,004.70 CW

TOTAL BID PRICE FOR BID (Items 1 through 63 PLUS Alternate "A", Items 1 through 7, inclusive) amount written in words:  
 THREE MILLION, SIX HUNDRED EIGHTY NINE THOUSAND, EIGHT HUNDRED FOUR DOLLARS & SEVENTY CENTS\*\*\*\*\*

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on this Bid form.

List the Addenda received and being acknowledged:   A  

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**.

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

- MARCELINO E. ORTIZ-PRESIDENT
- AIDA BANGHART-VICE PRESIDENT
- TERESA O. ORTIZ-SECRETARY



## BIDDING DOCUMENTS

---

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

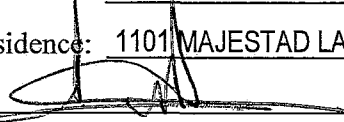
Bidder: AIDA BANGHART on behalf of MARCELINO E. ORTIZ for ORTIZ CORPORATION

Title: VICE PRESIDENT on behalf of PRESIDENT

Business Address: 2000 MC KINLEY AVENUE, NATIONAL CITY, CA 91950

Place of Business: 2000 MC KINLEY AVENUE, NATIONAL CITY, CA 91950

Place of Residence: 1101 MAJESTAD LANE, CHULA VISTA, CA 91910

Signature: 

### NOTES:

- A. The City shall determine the low Bid based on the Base Bid PLUS Additive Alternate "A."
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid alone or if applicable, for the Base Bid plus any combination of alternates selected in the City's sole discretion.
- C. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- D. Failure to initial all corrections made in the bidding documents shall cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- E. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- H. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- I. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and 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: MOCON Address: 49-950 JEFFERSON ST. STE C-200 City: INDIO State: CA Zip: 92201 Phone: 760-564-2536	CONSTRUCTOR	PIPE BURSTING	\$18,900.00	OBE	N/A	N/A
Name: HUDSON SAFE-T-LITE RENTALS Address: 777 GABLE WAY City: EL CAJON State: CA Zip: 92022 Phone: 619-441-3644	CONST SERVICE	TRAFFIC PLAN DESIGN	\$5,200.00	SLBE	CITY OF SAN DIEGO	N/A
Name: BRIAN F. SMITH & ASSOCIATES Address: 14010 POWAY ROAD City: POWAY State: CA Zip: 92064 Phone: 858-484-0915	CONST SERVICE	ARCHEO/PALEONTOLOGICAL & NATIVE AMER MONITORING	\$72,066.85	SLBE	CITY OF SAN DIEGO	N/A

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).**

0.2373  
CN

**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: TERRA WEST INC. Address: 1061 TIERRA DEL REY, STE 204 City: CHULA VISTA State: CA Zip: 91910 Phone: 619-591-1007	CONST SERVICE	WATER POLLUTION CONTROL PROG DEV	\$625.00	SLBE	CITY OF SAN DIEGO	N/A
Name: JPS LEGAL VIDEO Address: 455 S. OAKHURST DRIVE, STE. 6 City: BEVERLY HILLS State: CA Zip: 90212 Phone: 310-869-0715	CONST SERVICE	PRECON VIDEO	\$1,600.00	SBE	EPA & STATE OF CA	N/A
Name: COASTAL PIPELINE SERVICES Address: PO BOX 235653 City: ENCINITAS State: CA Zip: 92023 Phone: 760-828-5174	CONST SERVICE	TELEVISIONING	\$15,000.07	SLBE	CITY OF SAN DIEGO	N/A

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**

**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: LSI ROAD MARKING Address: PO BOX 2426 City: EL CAJON State: CA Zip: 92021 Phone: 619-443-7755	CONSTRUCTOR	STRIPING	\$11,404.00	ELBE	CITY OF SAN DIEGO	N/A
Name: ART G. ORTIZ CONCRETE Address: PO BOX 121177 City: CHULA VISTA State: CA Zip: 91912 Phone: 619-941-1030	CONSTRUCTOR	CURB RAMPS	\$121,875.00	ELBE	CITY OF SAN DIEGO	N/A
Name: AMERICAN ASPHALT SOUTH, INC Address: 14436 SANTA ANA AVENUE City: FONTANA State: CA Zip: 92337 Phone: 909-427-8276	CONSTRUCTOR	SLURRY SEAL	\$181,329.75	OBE	N/A	N/A

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**

**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: PAL GENERAL ENGINEERING Address: 5374 EASTGATE MALL City: SAN DIEGO State: CA Zip: 92121 Phone: 858-638-7100	CONSTRUCTOR	ASPHALT PAVING	\$445,148.13	ELBE	CITY OF SAN DIEGO	N/A
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

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

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification (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 list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

<b>NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER</b>	<b>MATERIALS OR SUPPLIES</b>	<b>DOLLAR VALUE OF MATERIAL OR SUPPLIES</b>	<b>SUPPLIER (Yes/No)</b>	<b>MANUFACTURER (Yes/No)</b>	<b>MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSE</b>	<b>WHERE CERTIFIED</b>
Name: J. CLOUD INC Address: 2094 WILLOW GLEN DRIVE City: EL CAJON State: CA Zip: 92019 Phone: 619-593-9020	MATERIALS	\$105,275.00	YES	YES	ELBE	CITY OF SAN DIEGO
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSE |  |         |

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  
(USE ONLY WHEN ADDITIVE ALTERNATES ARE REQUIRED)**

Bidder shall list all Subcontractors described in the Bidder's *Base Bid* whose percentage of work will increase or decrease if alternates are selected for award. Bidder shall also list additional Subcontractors not described in the Bidder's *Base Bid* who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%.. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and 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: _____						
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

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

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



# SEWER & WATER GROUP 788

CONSTRUCTION CONSISTS OF THE INSTALLATION OF APPROXIMATELY 18,473 LINEAR FEET OF NEW 8 INCH SEWER MAIN, SEWER LATERALS, SEWER LATERAL REPLUMBING AND 1,731 LINEAR FEET OF NEW 8 INCH AND 12 INCH WATER MAINS, WATER SERVICES, VALVES, AND FIRE HYDRANTS, IN ADDITION, INSTALLING CURB RAMPS AND STREET RESURFACING AND ALL OTHER WORK AND APPURTENANCES IN ACCORDANCE WITH SPECIFICATION NO. 5371 AND DRAWINGS NUMBERED 33342-01-D THROUGH 33342-38-D.

## WORK TO BE DONE

### CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 426 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- THE CONTRACTOR SHALL NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 100 FEET OF UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (i.e., 69 KV & HIGHER)
- THE CONTRACTOR SHALL LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LETTER RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. THE CONTRACTOR SHALL LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENT.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ALL ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY IN NO MANNER ASSUMES RESPONSIBILITY FOR THE ACCURACY OF ANY INFORMATION SHOWN ON THESE CONTRACTOR-RESPONSIBLE POTHOLE EXISTING UTILITIES. ALL UTILITIES SHOWN ON THESE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS (SECTION 5-1) IN ADVANCE. THE EXACT SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- THE CITY FORCES WHERE CALLED OUT SHALL MAKE PERMANENT CUTS & PLUGS, CONNECTIONS.
- EXISTING MAINS SHALL BE KEPT IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SHOWN ON PLANS.
- THE LOCATION OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- STORM DRAIN INLETS ARE TO REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. (SEE PLAN VIEW)

### STORM WATER PROTECTION

- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND WATER POLLUTION CONTROL PLAN (WPCLP).

### ABBREVIATIONS

ABAND	ABANDON	OVHD	OVER HEAD
ABAND'D	ABANDONED	PAL	PALAEONTOLOGICAL
AC	ASBESTOS CEMENT PIPE	PVC	POLYVINYL CHLORIDE
ARCHAEO	ARCHAEOLOGICAL	PROP	PROPOSED
AHD	AHEAD	PVMT	PAVEMENT
ASST	ASSEMBLY	RED	REDUCER
AV	AIR VALVE	RT	RIGHT
BC	BEGIN CURVE	S	SURVEY LINE
BK	BLOCK	SO	STUB OUT
BO	BLOW-OFF	S/O	SOUTH OF
B/TWN	BETWEEN	SWR	SEWER
CB	CABLE TV	TEL	TELEPHONE
CI	CAST IRON PIPE	UNK	UNKNOWN
CL	CENTER LINE	VC	VERTICAL CURVE
CL	CONDUIT	WM	WATER METER
CONT	CONTINUED	WTR	WATER
CONTR	CONTRACTOR	W/O	WEST OF
DB	DIRECT BURIED		

### EXISTING STRUCTURES

EX WATER MAIN & VALVES	---
EX WATER METER	---○---
EX FIRE HYDRANT	---○---
EX SEWER MAIN & MANHOLES	---○---
EX DRAINS	==
EX PAVEMENT (PROFILE)	=====
EX GROUND LINE (PROFILE)	=====
EX TRAFFIC SIGNAL	OR T'S
EX STREET LIGHT	★ SL
GAS MAIN	---
ELEC. COND., TEL. COND., CATV	---E--- T--- C---
RAILROAD, TROLLEY TRACKS	

CHANGE DATE	CONSTRUCTION CHANGE / ADDENDUM	APPROVAL NO.	WARNING
	AFFECTED OR ADDED SHEET NUMBERS		IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

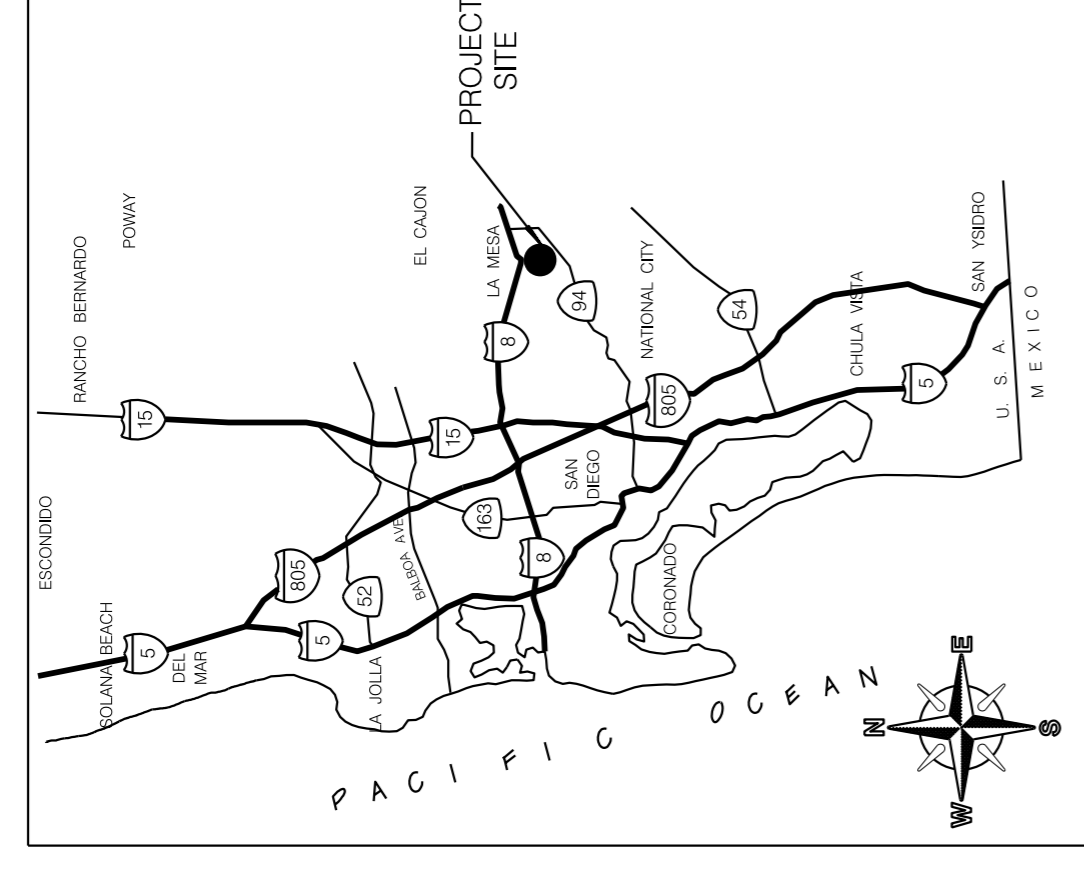
SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE SIZE (IN)	PIPE FUNCTION	LENGTH (FT)
1	G-1	COVER SHEET	142' S/O UNIVERSITY AV TO STA. 8+00	8	SEWER	700.00
2	C-1	ARAGON DR	842' SE/O OF UNIVERSITY AV TO STA 16+00	8	SEWER	800.00
3	C-2	ARAGON DR	440' NW/O CELIA VISTA DR TO STA 24+00	8	SEWER	800.00
4	C-3	ARAGON DR	357' SW/O CELIA VISTA DR TO MARLOWE DR	8	SEWER	600.00
5	C-4	MARLOWE DR	49' E/O ARAGON DR TO 86' E/O CASITA WY	8	SEWER	302.97
6	C-5	MARLOWE DR	69TH ST TO DONNA AV	8	SEWER	326.55
7	C-6	EASEMENT E/O ARAGON DR & CASITA WY	ARAGON DR TO HARVALA ST	8	SEWER	758.79
8	C-7	PROFILE FOR SHEET 7	SEE SHEET 7	N/A		
9	C-8	CASITA WY S/O HARVALA ST	STA 1+00.00 TO STA 8+00.00	8	SEWER	700.00
10	C-9	CASITA WY	STA 8+00.00 TO STA 13+34.56	8	SEWER	534.56
11	C-9	CASITA WY S/O CELIA VISTA DR	STA 1+00.00 TO STA 4+67.08	8	SEWER	367.08
12	C-10	HARVALA ST	STA 1+00.00 TO STA 9+00.00	8	SEWER	800.00
13	C-11	DONNA AV	STA 9+00.00 TO STA 12+71.91	8	SEWER	371.91
14	C-12	MISSY CT	STA 1+00.00 TO STA 6+57.30	8	SEWER	490.29
15	C-13	DONNA AV N. OF CELIA VISTA DR	STA 1+00.00 TO STA 3+86.35	8	SEWER	286.35
16	C-14	CELIA VISTA DR AT ARAGON DR	STA 1+00.00 TO STA 5+00.00	8	SEWER	400.00
17	C-15	LOMA ALTA DR S. OF CELIA VISTA DR	STA 5+00.00 TO STA 12+37.30	8	SEWER	737.30
18	C-16	69TH ST AT HANNIBAL PL	STA 1+00.00 TO STA 9+00.00	8	SEWER	800.00
19	C-17	69TH ST AT HANNIBAL PL	STA 16+00.00 TO STA 22+65.36	8	SEWER	665.36
20	C-18	HANNIBAL PL - DONNA AV	STA 1+00.00 TO STA 9+39.50	8	SEWER	839.50
21	C-19	CASITA WY N/O MARLOWE DR	STA 1+00.00 TO STA 5+56.79	8	SEWER	456.79
22	C-20	MARLOWE DR TO VISTA GRANDE	STA 1+00.00 TO STA 6+34.47	8	SEWER	531.47
23	C-21	LOMA ALTA DR S. OF MARLOWE DR	STA 1+00.00 TO STA 9+71.50	8	SEWER	871.50
24	C-22	VISTA GRANDE DR S. OF MARLOWE DR	STA 1+00.00 TO STA 7+39.35	8	SEWER	639.35
25	C-23	VERONICA DR	STA 1+00.00 TO STA 9+20.11	8	SEWER	820.11
26	C-24	ARAGON DR - WAITE DR	STA 1+00.00 TO STA 6+66.40	8	SEWER	566.40
27	C-25	69TH ST S. OF UNIVERSITY AV	STA 1+00.00 TO STA 5+40.64	8	SEWER	440.64
28	C-26	69TH ST	STA 9+00.00 TO STA 9+06.00	8	SEWER	600.00
29	C-27	DONNA WY TO DONNA AV	STA 1+00.00 TO STA 16+96.51	8	SEWER	766.51
30	C-28	DONNA WY TO DONNA AV	STA 1+00.00 TO STA 6+97.55	8	SEWER	597.55
31				8	WATER	700.00
32				12	WATER	306.75
33					TOTAL SEWER	18,473.38
34					TOTAL WATER	1,730.92

### LEGEND:

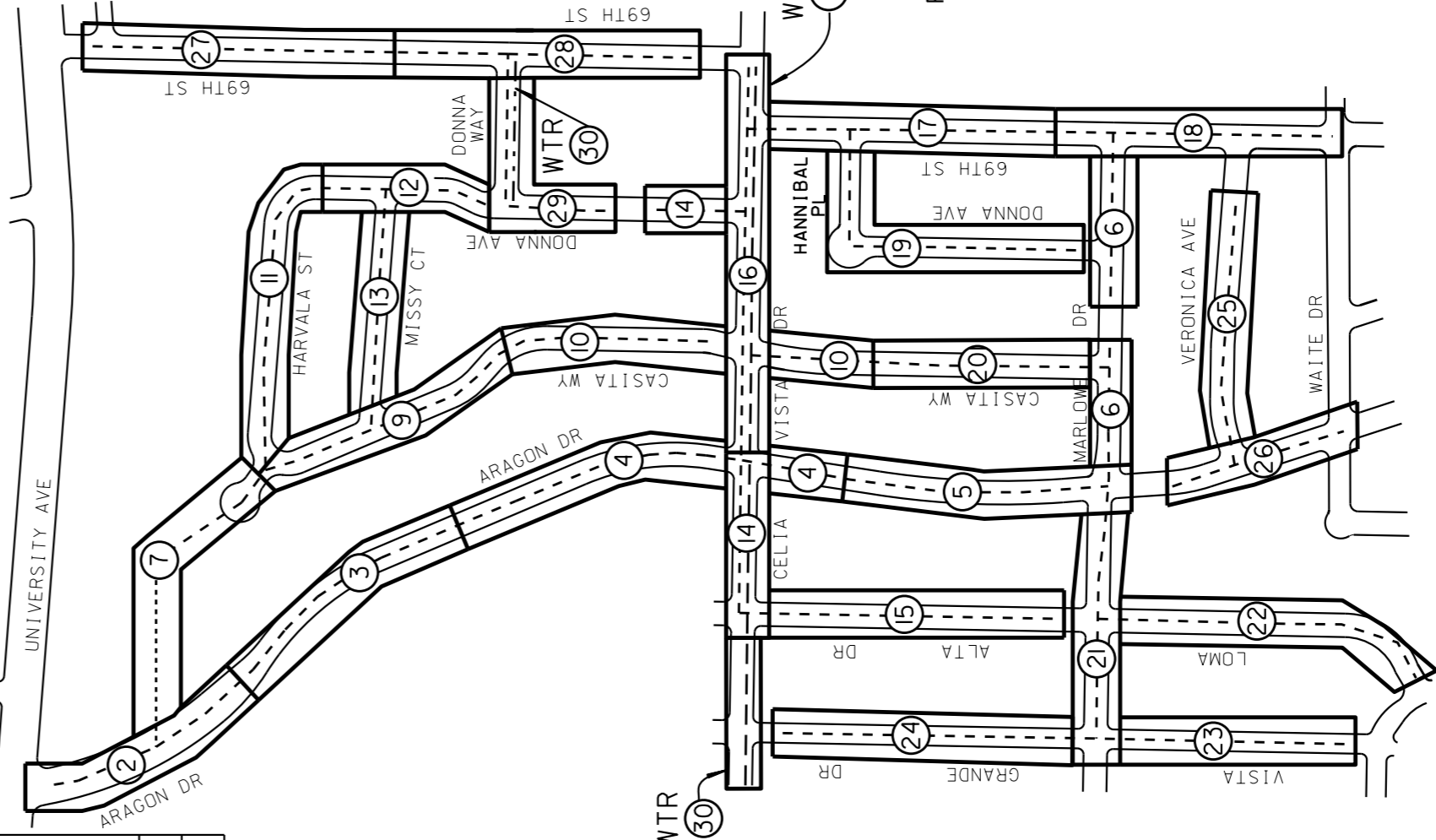
- WATER MAIN REPLACEMENT
- SEWER MAIN REPLACEMENT
- ..... SEWER MAIN REHABILITATION
- ② SHEET NUMBER

### FIELD DATA

BENCHMARK: NWBP CELIA VISTA DR. & 69TH ST. ELEV. 461.662  
 NWBP CELIA VISTA DR. & CASITA WY ELEV. 439.814  
 MSL Based on NGVD 29 FEET as shown in the City of San Diego Bench Book  
 FIELD NOTES: THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY USING GPS II04 AND GPS III45 SHOWN ON R. OF S. I4492 - LE. 541-21919'E, NAD 83 FEET, ZONE 6 (EPOCH 91.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH THE BASE STATION LOCATED AT AN AUTONOMOUS LOCATION, CONSTRAINING TO GPS II04 (p1 42), & GPS III45 (p1 41) AND CHECKING GPS III (p1 40).  
 DATUM: MEAN SEA LEVEL  
 STREETS REQUIRING 9" TRENCH CAP: NONE



VICINITY MAP  
NOT TO SCALE



FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP, AND HORIZONTAL ALIGNMENT COORDINATE SHEETS.

IMPROVEMENTS	STANDARD DRAWINGS	SYMBOL
TRENCH RESURFACING	SDC-107, SDC-108	
SEWER MAIN	SDS-100, SDS-101, SDS-10B, SDS-110	
SEWER MANHOLE/PVC LINED	SDS-106, SDS-107, SDM-13, M-3, SM-03, SM-04, SM-07	
REHAB. EX. SEWER MANHOLE	SEE PLANS & SPECS	
SEWER MAIN REHAB.	SEE PLANS & SPECS	
4" SEWER LATERAL WITH C.O. UNLESS OTHERWISE SPECIFIED	SDS-100, SDS-102, SDS-103, SDS-104, SDS-105, SDS-10B, SDS-110 (TYPE C), SDS-11B	
REPLUMB SEWER LATERAL WITH C.O.	SDS-100, SDS-102, SDS-103, SDS-104, SDS-105, SDS-10B, SDS-110 (TYPE C), SDS-11B	
SEWER LATERAL CONNECTION	SEE PLANS & SPECS	
SERVICE LATERAL CONNECTION TO REHABILITATED SEWER	SEE PLANS & SPECS	
CONCRETE PROTECTION FOR EXIST SEWER PIPE	SDS-116	
CONCRETE ENCASEMENT	SDS-112	
ABANDON EX MANHOLE	SM-08	
SLURRY FILL ABANDONED SEWER MAIN	SEE PLANS & SPECS	
SURVEY MONUMENT	M-10	
WATER MAIN & APPURTENANCES	SDW-100, WP-01, WT-01, FOR PIPE BEDDING & TRENCH BACKFILL DETAIL SEE SDW-110	
VALVES WITH CAPS AND WELLS	SDW-100, SDW-103, WV-02 TYPE B, WV-03, WV-04, WV-5	
6" FIRE HYDRANT ASSEMBLY & MARKER 2-PORT UNLESS SPECIFIED AS 3-PORT	SDW-100, SDW-104, SDW-109, M-19, WF-04, WP-01, WV-02 TYPE B	
1" WATER SERVICE UNLESS OTHERWISE SPECIFIED	SDW-100, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, WP-01, WS-01, WS-02, WS-03, NARROW TRENCH FOR 1" & 2" WATER SERVICES; SEE DETAIL, SHEET 38	
BLOW-OFF ASSEMBLY	SDW-100, SDW-106, WB-01, WB-02, WB-03, WB-04, WB-05,	
AIR & VACUUM VALVE	SDW-100, SDW-117, WA-01, WA-02, WA-04, WA-06	

### DISCIPLINE CODE

- G GENERAL
- C CIVIL

### AS-BUILT INFORMATION

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

### KEY MAP

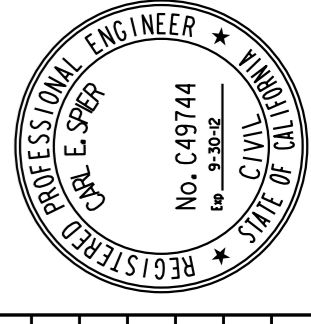
NO SCALE



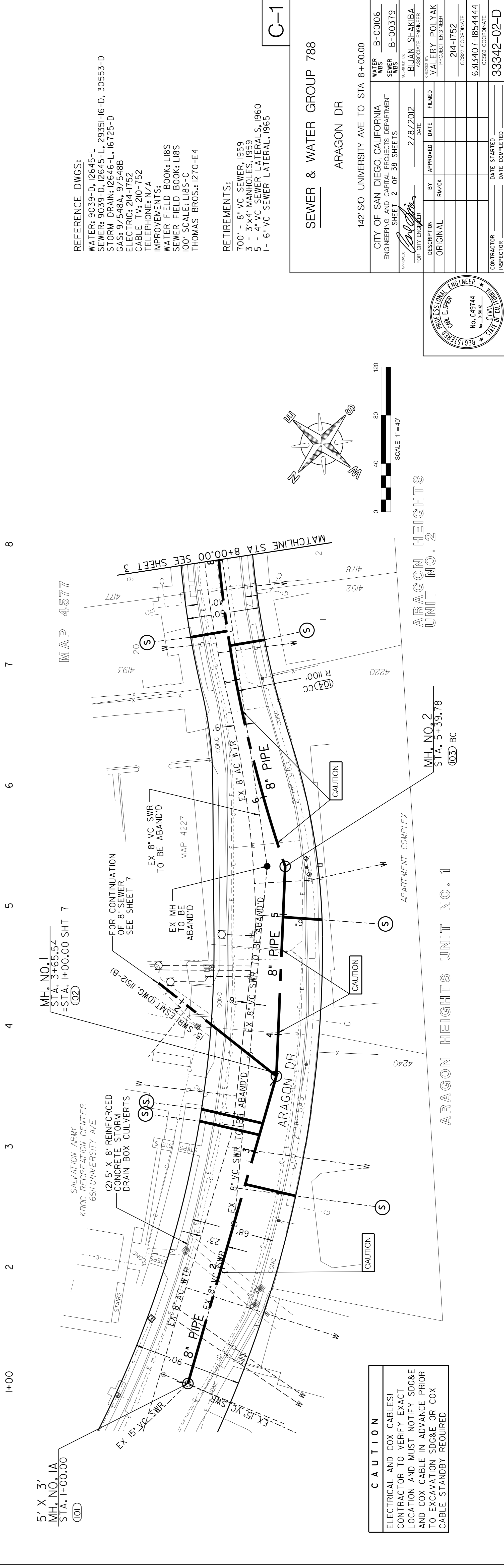
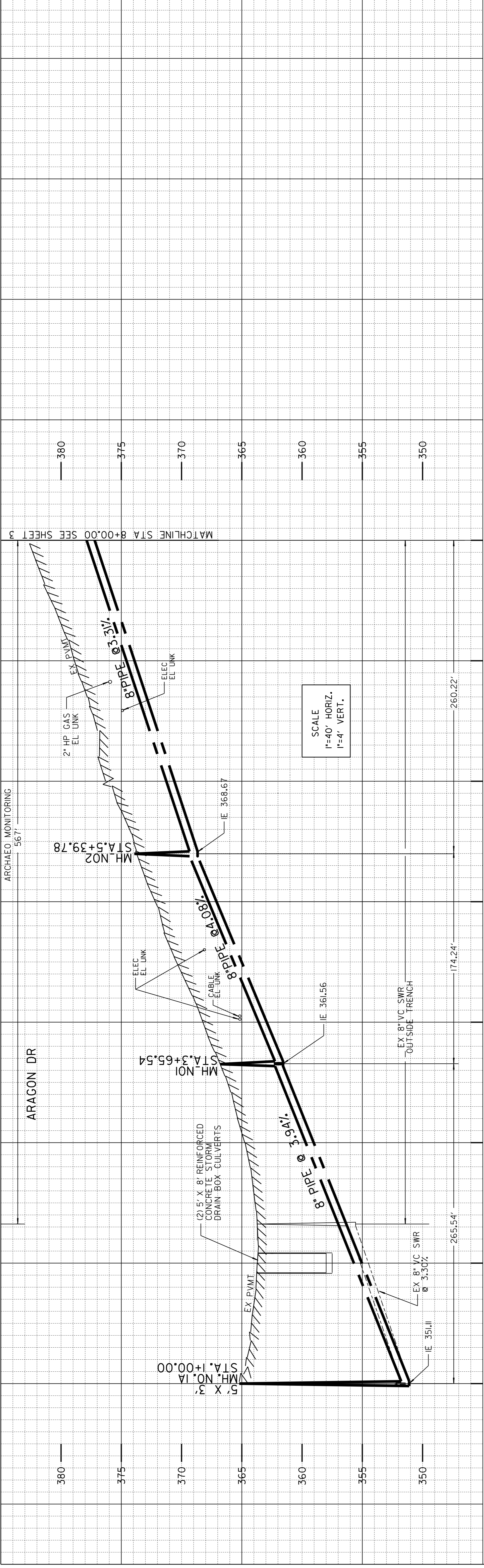
## CITY OF SAN DIEGO PUBLIC WORKS PROJECT

## PLANS FOR THE CONSTRUCTION OF SEWER & WATER GROUP 788 COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SEWER MAINS SHEET 1 OF 38 SHEETS	DATE 2/8/2012	APPROVED BY BUJAN SHAKIRA ASSOCIATE ENGINEER	FILED VALERY POLYAK PROJECT ENGINEER
WATER WBS B-00106			
SEWER WBS B-00379			
CONTRACTOR	DATE STARTED	DATE COMPLETED	
INSPECTOR			33342-01-D

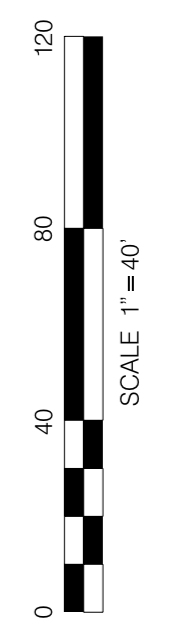
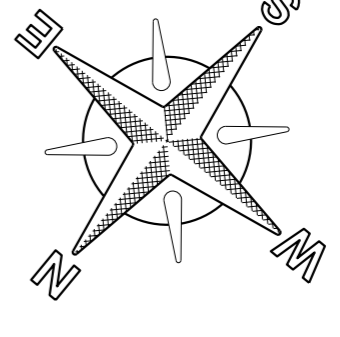






REFERENCE DWGS:  
 WATER: 9039-D, 12645-L  
 SEWER: 9039-D, 12645-L, 29351-16-D, 30553-D  
 STORM DRAIN: 12646-L, 16725-D  
 GAS: 9/548A, 9/548B  
 ELECTRIC: 214-1752  
 CABLE TV: 210-1752  
 TELEPHONE: N/A  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L18S  
 SEWER FIELD BOOK: L18S  
 100' SCALE: L18S-C  
 THOMAS BROS.: 1270-E4

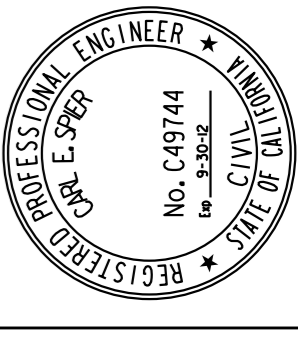
RETIREMENTS:  
 700' - 8" VC SEWER, 1959  
 3' x 4' MANHOLES, 1959  
 5' - 4" VC SEWER LATERALS, 1960  
 1' - 6" VC SEWER LATERAL, 1965



ARAGON HEIGHTS  
 UNIT NO. 2

ARAGON HEIGHTS UNIT NO. 1

**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED



SEWER & WATER GROUP 788  
 ARAGON DR

142 SO UNIVERSITY AVE TO STA 8+00.00

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 2 OF 38 SHEETS	WATER WBS B-00106
	SEWER WBS B-00379
DESIGNED BY: <b>BLIAN SHAKIRA</b> ASSOCIATE ENGINEER	DATE: 2/8/2012
FOR CITY ENGINEER: <b>Valery Polyak</b>	DATE: _____
DESCRIPTION: ORIGINAL	BY: _____
	APPROVED: _____
	DATE: _____
	FILED: _____
	DATE: _____
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____

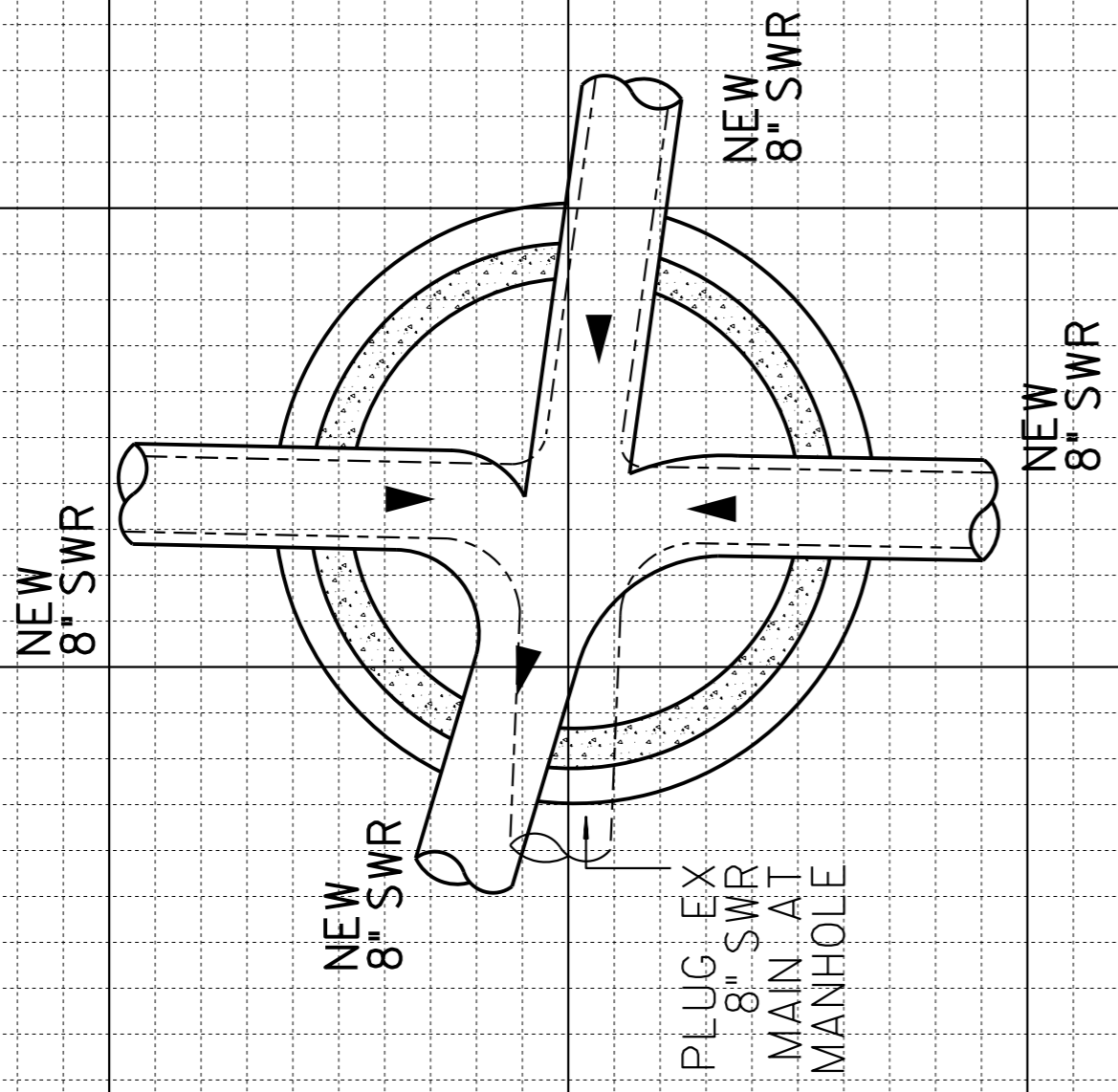
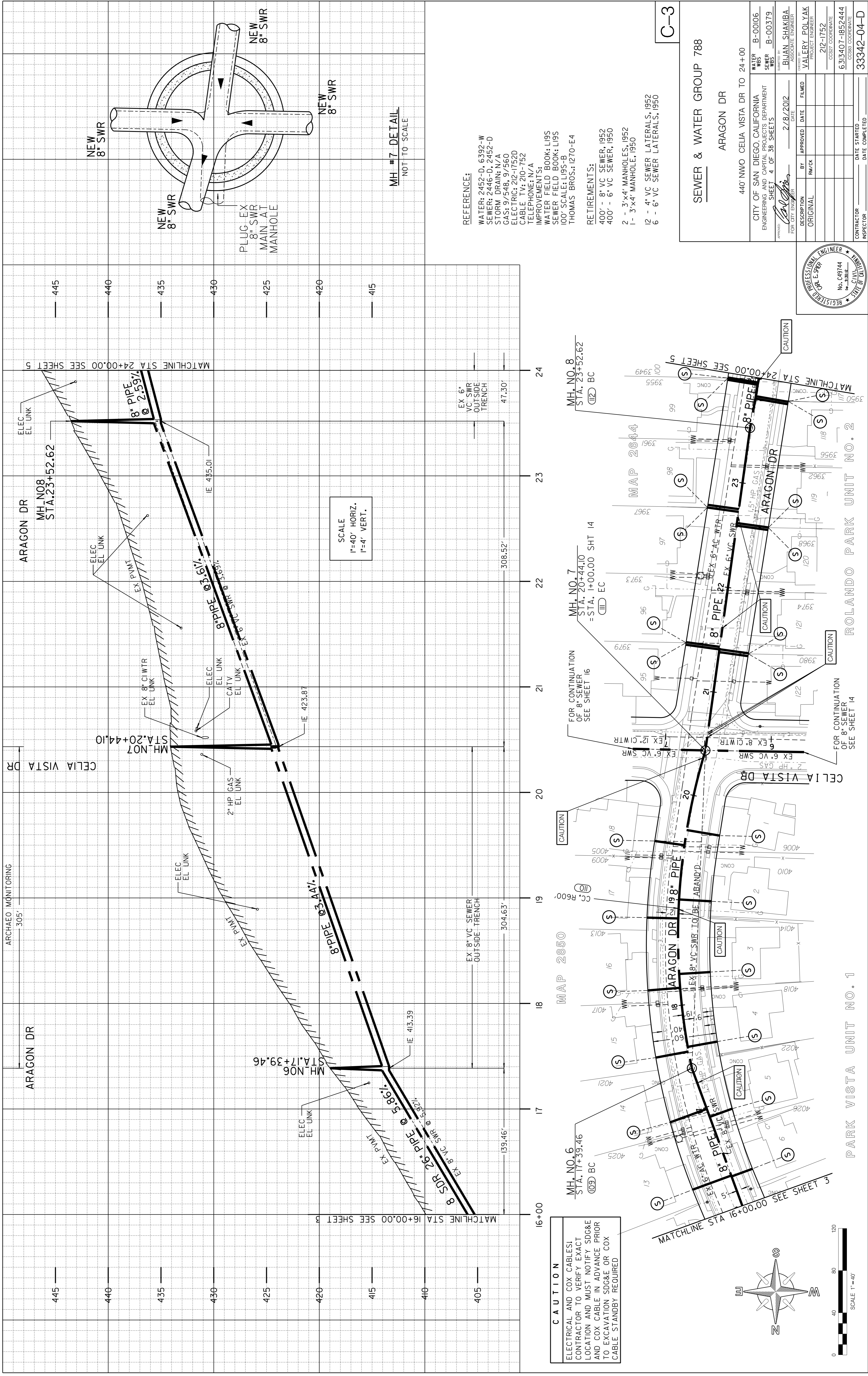
ARAGON DR

C-1





# ARAGON & CELIA VISTA



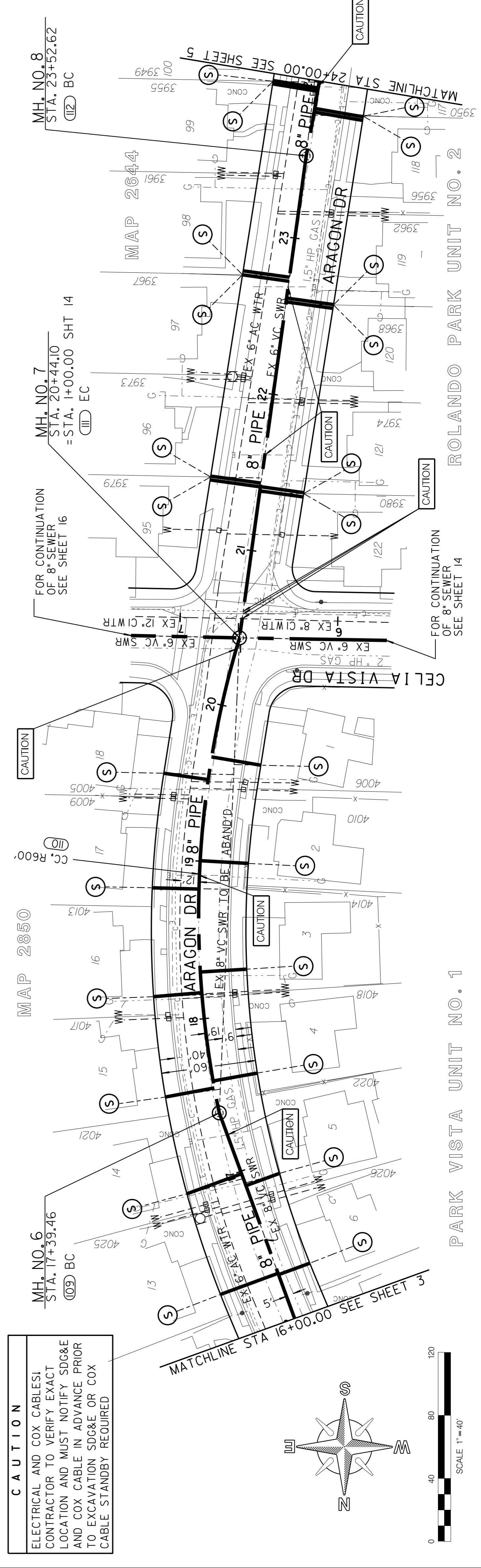
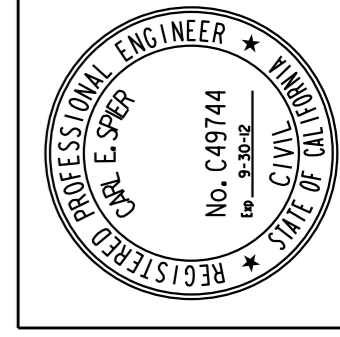
**REFERENCE:**  
 WATER: 2452-D, 6392-W  
 SEWER: 2446-D, 2452-D  
 STORM DRAIN: N/A  
 GAS: 9/548, 9/560  
 ELECTRIC: 212-1752D  
 CABLE: TV: 210-752  
 TELEPHONE: N/A  
**IMPROVEMENTS:**  
 WATER FIELD BOOK: L19S  
 SEWER FIELD BOOK: L19S  
 100' SCALE: L19S-B  
 THOMAS BROS.: 1270-E4  
**RETIREMENTS:**  
 400' - 8" VC SEWER, 1952  
 400' - 6" VC SEWER, 1950  
 2 - 3"x4" MANHOLES, 1952  
 1 - 3"x4" MANHOLE, 1950  
 12 - 4" VC SEWER LATERALS, 1952  
 6 - 6" VC SEWER LATERALS, 1950

**SEWER & WATER GROUP 788**

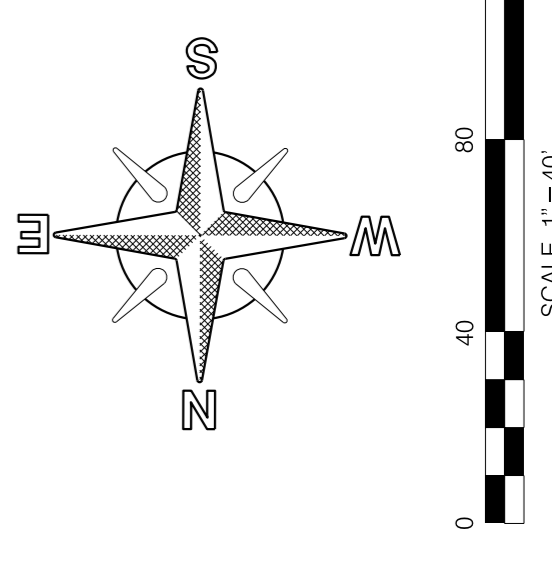
ARAGON DR

440' NWO CELIA VISTA DR TO 24+00

WATER	WBS	B-00106
SEWER	SEWER	B-00379
CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 4 OF 38 SHEETS		
DESIGNED BY	DATE	FILED
FOR CITY ENGINEER	2/8/2012	
APPROVED BY	DATE	FILED
PROJECT ENGINEER		
ASSOCIATE ENGINEER		
VALERY POLYAK		
PROJECT ENGINEER		
COORDINATOR		
63342-04-D		
CONTRACTOR	DATE STARTED	
INSPECTOR	DATE COMPLETED	



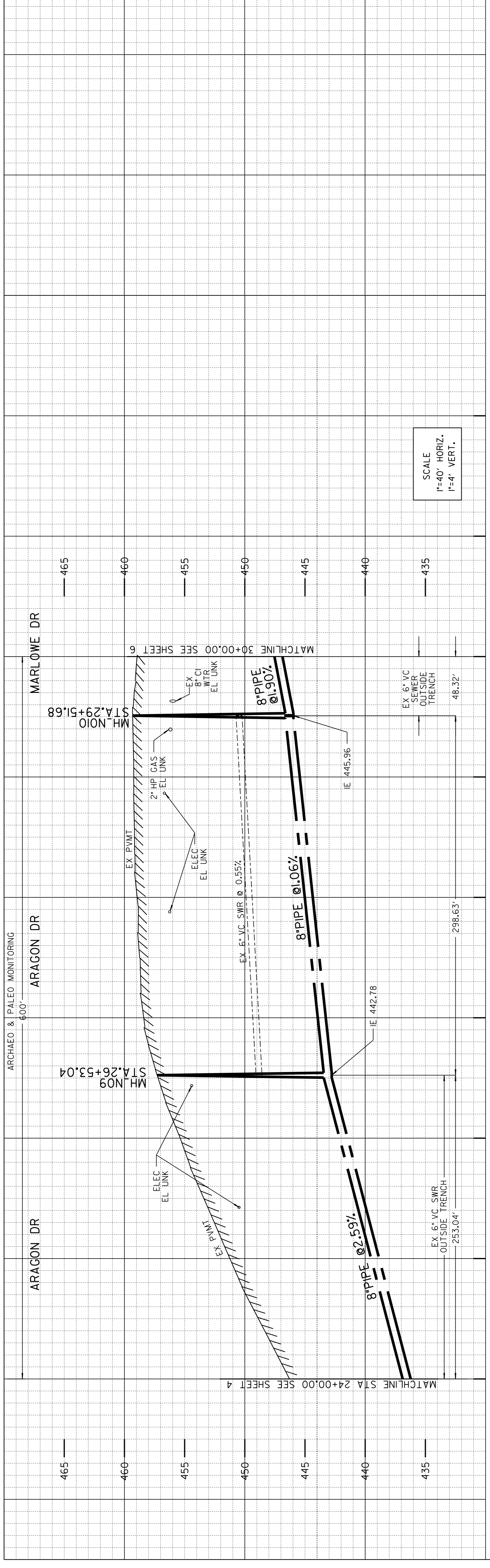
**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED



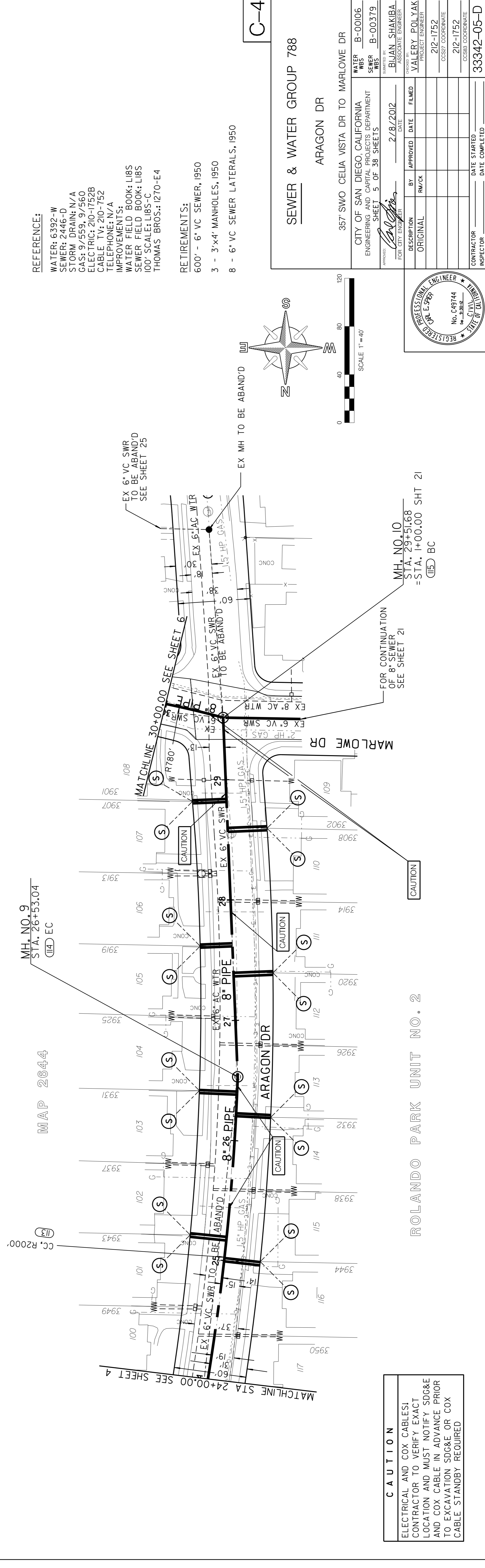
PARK VISTA UNIT NO. 1

ROLANDO PARK UNIT NO. 2

SEWER & WATER GROUP 788



SCALE  
1"=40' HORIZ.  
1"=4' VERT.



**REFERENCE:**

WATER: 6392-W  
SEWER: 2446-D  
STORM DRAIN: N/A  
GAS: 9/559, 9/560  
ELECTRIC: 210-1752B  
CABLE TV: 210-1752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L18S  
SEWER FIELD BOOK: L18S  
100' SCALE: L18S-C  
THOMAS BROS.: I270-E4

**RETIREMENTS:**

600' - 6" VC SEWER, 1950  
3 - 3"x4" MANHOLES, 1950  
8 - 6" VC SEWER LATERALS, 1950

**SEWER & WATER GROUP 788**  
ARAGON DR

357-SWO CELIA VISTA DR TO MARLOWE DR

CITY OF SAN DIEGO CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SEWER SHS B-00106  
SHEET 5 OF 38 SHEETS

DATE: 2/8/2012

FOR CITY ENGINEER: *Bijan Shakira*  
ASSOCIATE ENGINEER

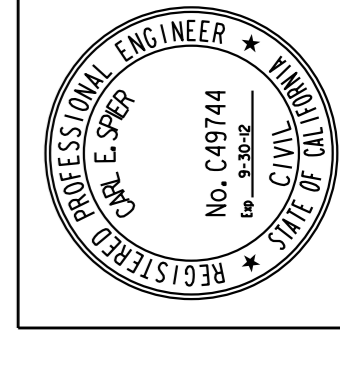
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	RM/CK			

DRAWN BY: VALERY POLYAK  
PROJECT ENGINEER  
212-1752  
CHECKED BY: GCS87  
COORDINATOR  
212-1752  
CONTRACTOR: DATE STARTED: 33342-05-D  
INSPECTOR: DATE COMPLETED:

**CAUTION**

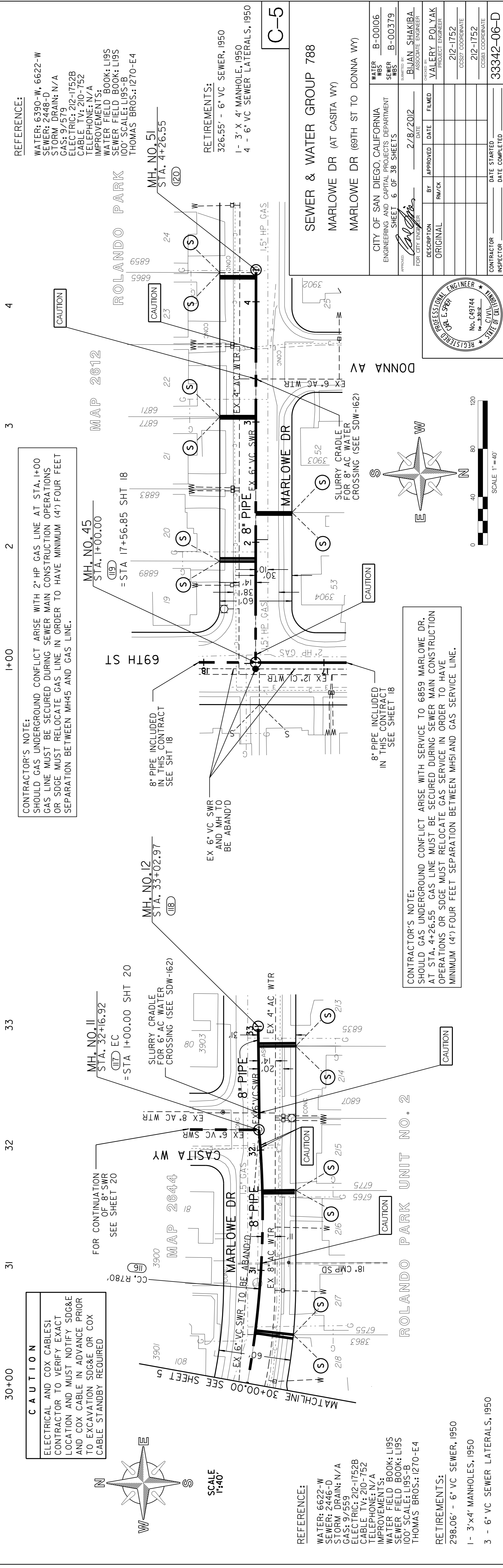
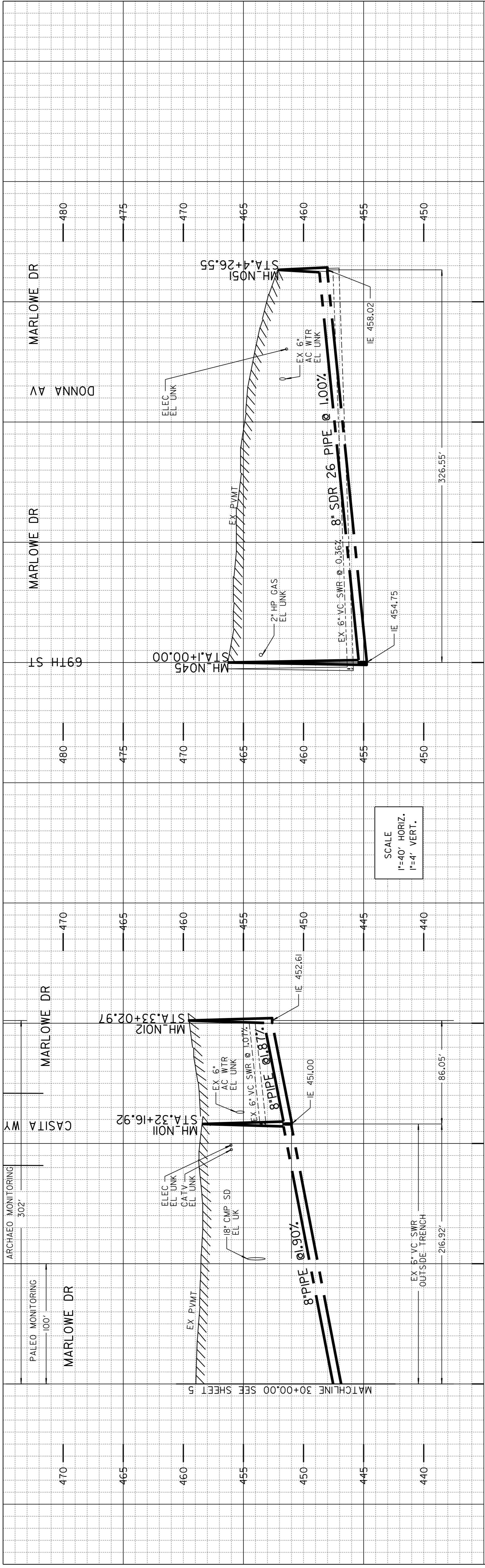
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

ROLANDO PARK UNIT NO. 2





# MARLOWE DR



**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

**CONTRACTOR'S NOTE:**  
SHOULD GAS UNDERGROUND CONFLICT ARISE WITH 2" HP GAS LINE AT STA. 1+00  
GAS LINE MUST BE SECURED DURING SEWER MAIN CONSTRUCTION OPERATIONS  
OR SDGE MUST RELOCATE GAS LINE IN ORDER TO HAVE MINIMUM (4') FOUR FEET  
SEPARATION BETWEEN MH45 AND GAS LINE.

**CONTRACTOR'S NOTE:**  
SHOULD GAS UNDERGROUND CONFLICT ARISE WITH SERVICE TO 6859 MARLOWE DR.  
AT STA. 4+26.55 GAS LINE MUST BE SECURED DURING SEWER MAIN CONSTRUCTION  
OPERATIONS OR SDGE MUST RELOCATE GAS SERVICE IN ORDER TO HAVE  
MINIMUM (4') FOUR FEET SEPARATION BETWEEN MH51 AND GAS SERVICE LINE.

**REFERENCE:**

- WATER: 6390-W, 6622-W
- SEWER: 2448-D
- STORM DRAIN: N/A
- GAS: 9/579
- ELECTRIC: 212-1752B
- CABLE TV: 210-752
- TELEPHONE: N/A
- IMPROVEMENTS:
- WATER FIELD BOOK: L195
- SEWER FIELD BOOK: L195-B
- 100' SCALE: L195-B
- THOMAS BROS.: I270-E4

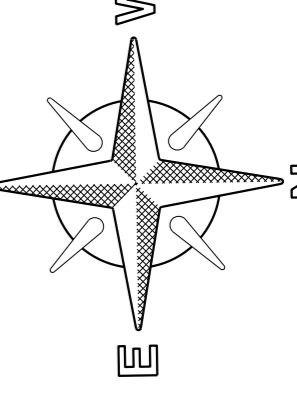
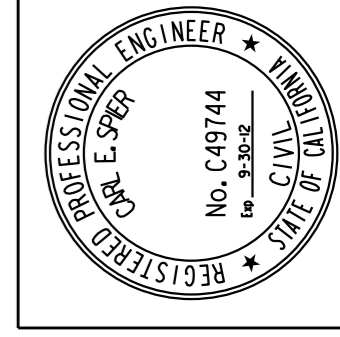
SCALE  
1"=40'

- REFERENCE:**
- WATER: 6622-W
  - SEWER: 2446-D
  - STORM DRAIN: N/A
  - GAS: 9/559
  - ELECTRIC: 212-1752B
  - CABLE TV: 210-752
  - TELEPHONE: N/A
  - IMPROVEMENTS:
  - WATER FIELD BOOK: L195
  - SEWER FIELD BOOK: L195-B
  - 100' SCALE: L195-B
  - THOMAS BROS.: I270-E4

- RETIREMENTS:**
- 298.06' - 6" VC SEWER, 1950
  - 1 - 3'x4' MANHOLES, 1950
  - 3 - 6" VC SEWER LATERALS, 1950

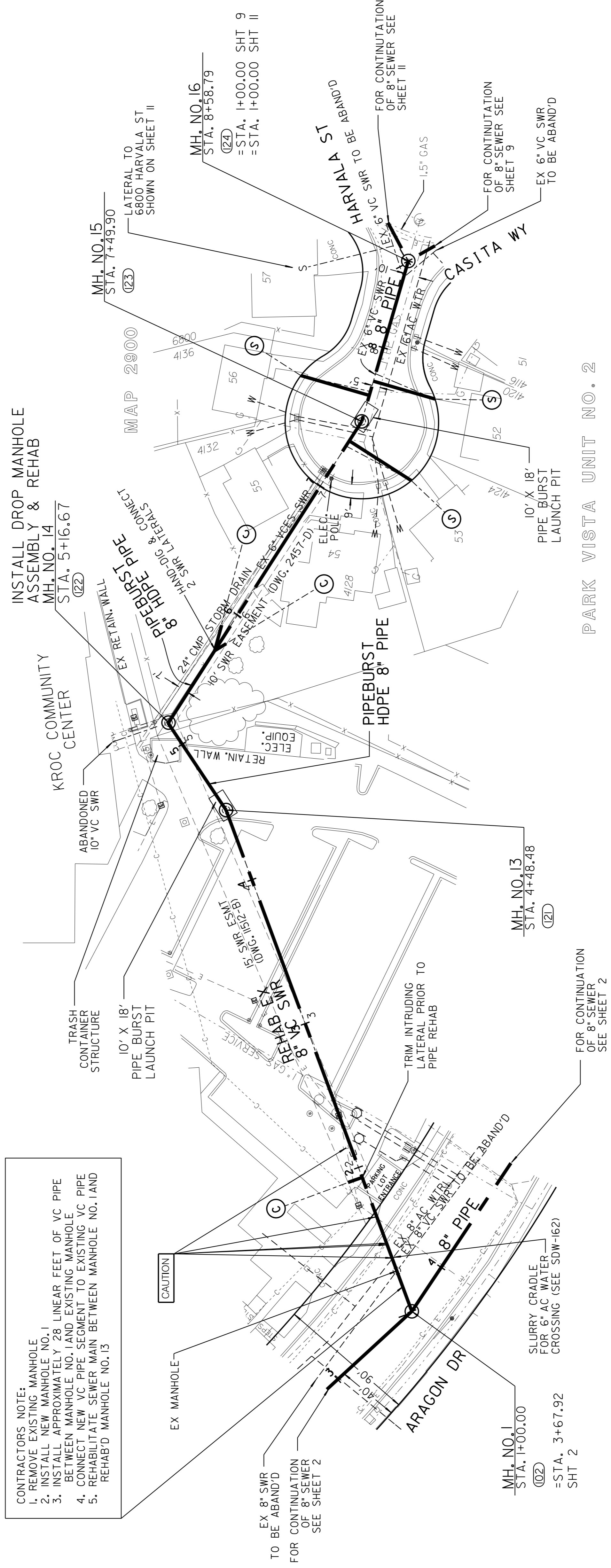
SEWER & WATER GROUP 788  
MARLOWE DR (AT CASTA WY)  
MARLOWE DR (69TH ST TO DONNA WY)

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 6 OF 38 SHEETS	WATER WBS B-00106 SEWER WBS B-00379
APPROVED FOR CITY ENGINEER	DATE 2/8/2012
BY: APPROVED	DATE FILMED
DESCRIPTION ORIGINAL	DATE
FOR CITY ENGINEER	DATE
PROJECT ENGINEER	DATE
ASSOCIATE ENGINEER	DATE
REGISTERED PROFESSIONAL ENGINEER	DATE
No. C49744	DATE
DATE STARTED	DATE COMPLETED
CONTRACTOR	33342-06-D



SEE SHEET 8 FOR PROFILE

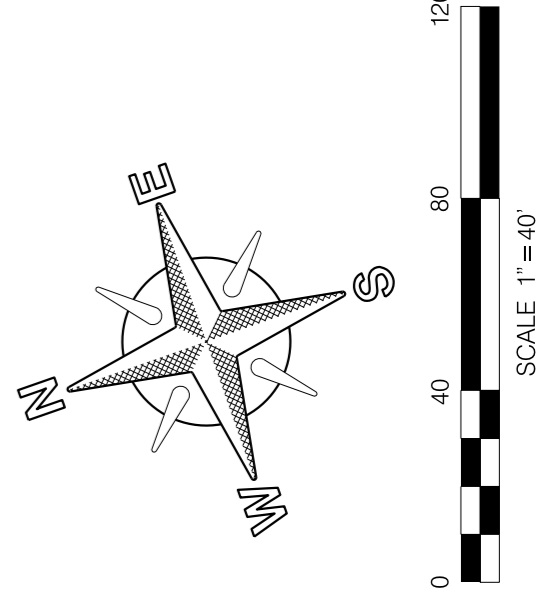
**CONTRACTOR'S NOTE:**  
 1. REMOVE EXISTING MANHOLE  
 2. INSTALL NEW MANHOLE NO. 1  
 3. INSTALL APPROXIMATELY 28' LINEAR FEET OF VC PIPE BETWEEN MANHOLE NO. 1 AND EXISTING MANHOLE  
 4. CONNECT NEW VC PIPE SEGMENT TO EXISTING VC PIPE  
 5. REHABILITATE SEWER MAIN BETWEEN MANHOLE NO. 1 AND REHAB'D MANHOLE NO. 13



PARK VISTA UNIT NO. 2

CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E AND COX CABLE IN ADVANCE PRIOR TO EXCAVATION SDG&E OR COX CABLE STANDBY REQUIRED

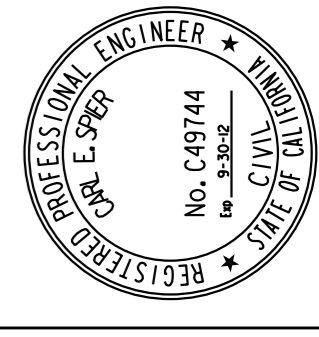


**REFERENCE:**  
 WATER: 2454-D, 12645-L  
 SEWER: 2454-, 2457-D, 12124-D  
 STORM DRAIN: 2457-D  
 GAS: 9/5488, 9/5494  
 ELECTRIC: 214-1752  
 CABLE TV: 210-752  
 TELEPHONE: N/A  
 WATER FIELD BOOK: L185  
 SEWER FIELD BOOK: L185  
 100' SCALE: L185-C  
 THOMAS BROS.: 1270-E4

**RETIREMENTS:**  
 500' - 8" VC SEWER, 1965  
 233' - 8" VC SEWER, 1952  
 165' - 6" VC SEWER, 1952  
 3 - 3'x4' MANHOLES, 1965  
 1 - 3'x4' MANHOLES, 1952  
 3 - 4" VC SEWER LATERALS, 1952

C-6

SEWER & WATER GROUP 788	
EASEMENT EO ARAGON DR	
ARAGON DR TO HARVALA ST	
CITY OF SAN DIEGO CALIFORNIA	WATER WBS B-00106
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	SEWER WBS B-00379
SHEET 7 OF 38 SHEETS	NO. B-00379
DESIGNED BY: <i>Valery Polyak</i>	ASSOCIATE ENGINEER
FOR CITY ENGINEER: <i>Valery Polyak</i>	DATE: 2/8/2012
DESCRIPTION: ORIGINAL	BY: APPROVED DATE FILMED
	RM/CK
	214-1752
	6313407-1854444
	33342-07-D
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED

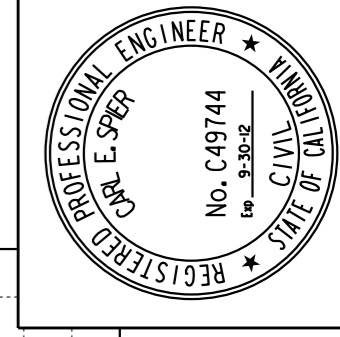


ARAGON & CASITA WY

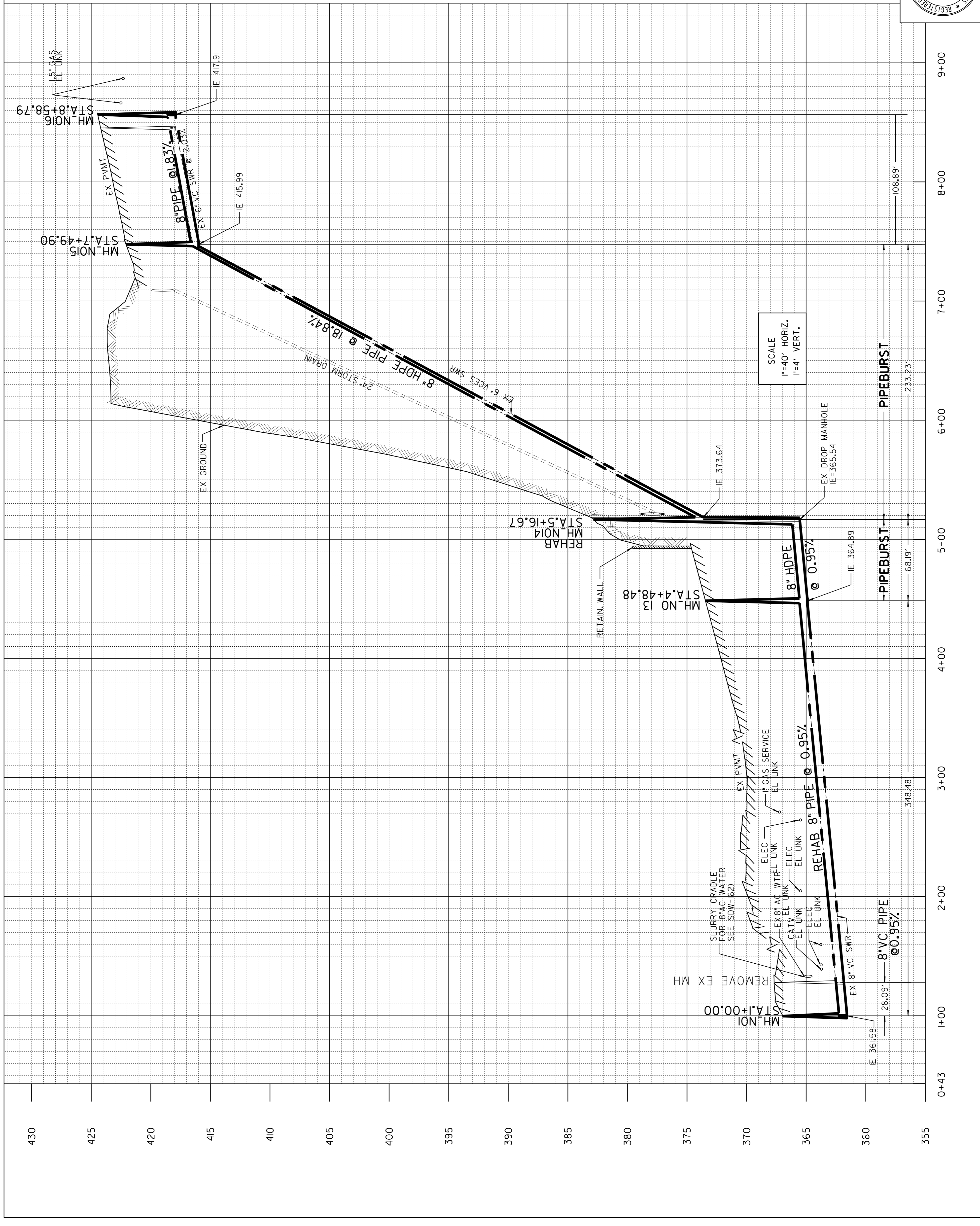
C-7

SEWER & WATER GROUP 788  
 PROFILE  
 EASEMENT EO ARAGON DR & CASITA WY  
 ARAGON DR TO HARVALA DR

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 8 OF 38 SHEETS	WATER WBS B-00106	SEWER WBS B-00379
APPROVED FOR CITY ENGINEER	DATE 2/8/2012	DATE FILED
BY VALERY POLYAK	DATE	DATE
DESCRIPTION ORIGINAL	BY APPROVED DATE FILED	DATE
CONTRACTOR	INSPECTOR	DATE STARTED
		DATE COMPLETED
		33342-08-D



CONTRACTOR TO VERIFY THE CITY HAS OBTAINED  
 A RIGHT-OF-ENTRY PERMIT PRIOR TO BEGINNING  
 CONSTRUCTION BETWEEN MH 1 AND MH 15



SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

PIPEBURST

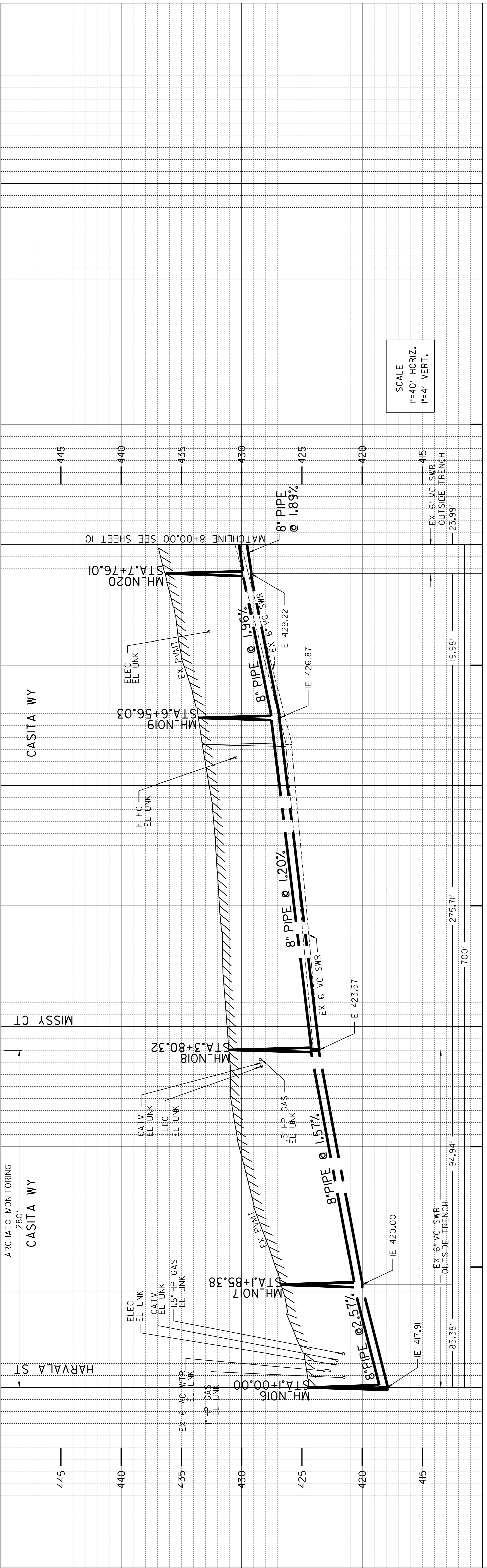
PIPEBURST

PIPEBURST

PIPEBURST

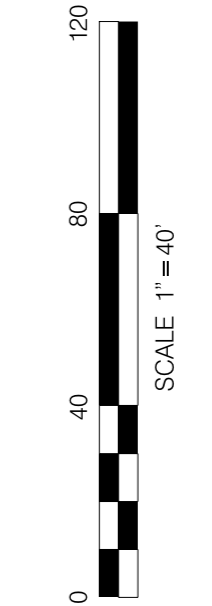
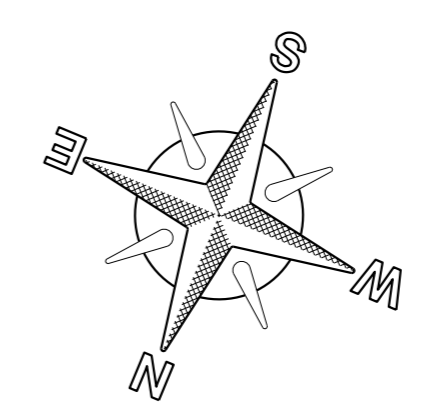
PIPEBURST





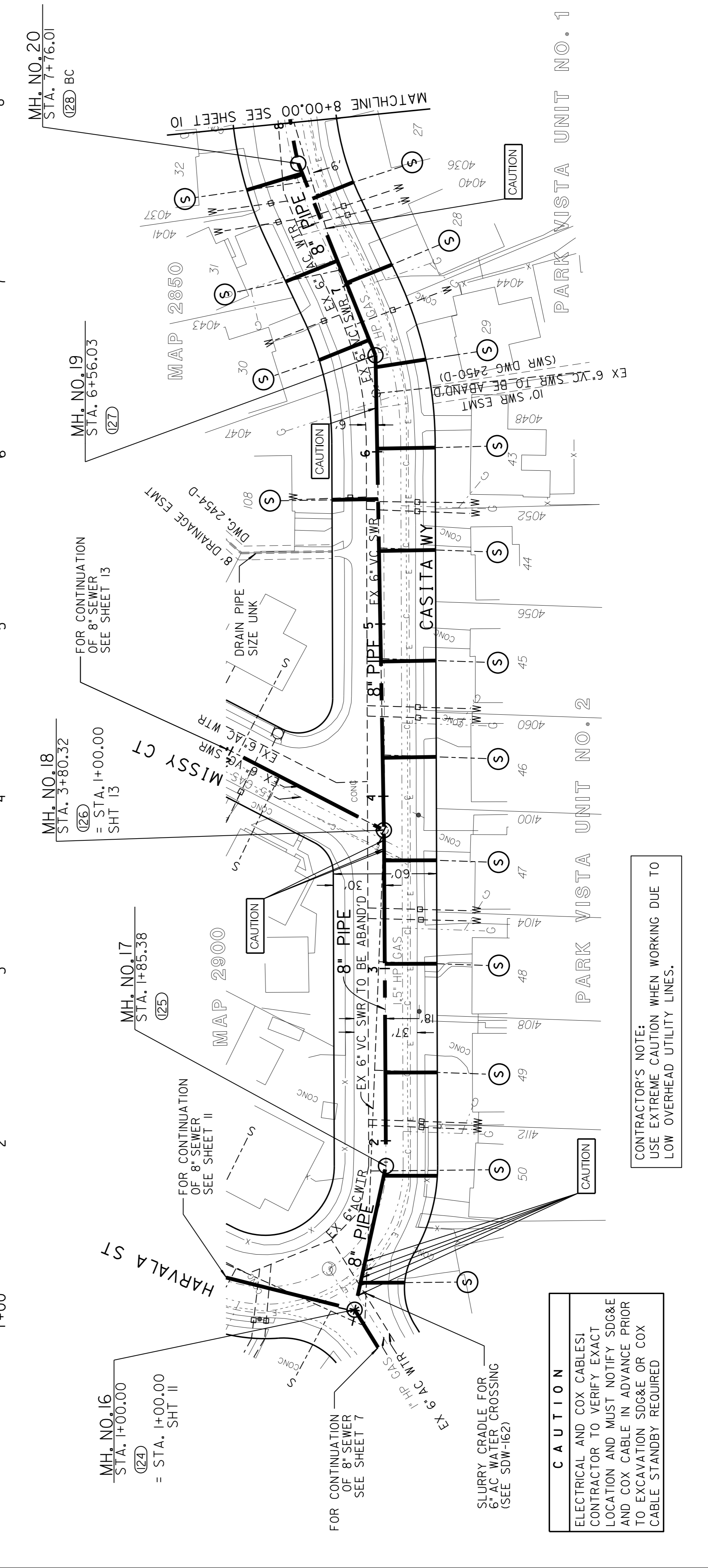
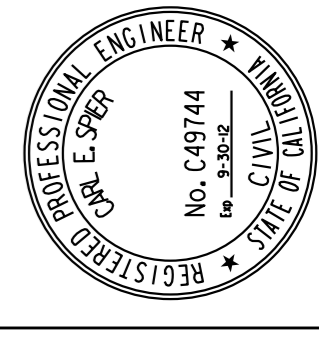
REFERENCE:  
 WATER: 2454-D, 6392-W  
 SEWER: 2451-D, 2454-D  
 STORM DRAIN: 2454-D  
 GAS: 97549, 97549A  
 ELECTRICAL: 214-1752  
 CABLE TV: 210-752  
 TELEPHONE: N/A  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L18S, L19S  
 SEWER FIELD BOOK: L18S, L19S  
 100' SCALE: L18S-C, L19S-B  
 THOMAS BROS.: 1270-E4

RETIREMENTS:  
 700' - 6" VC SEWER, 1952  
 2 - 3'x4' MANHOLES, 1952  
 16 - 4" VC SEWER LATERALS, 1952



C-8

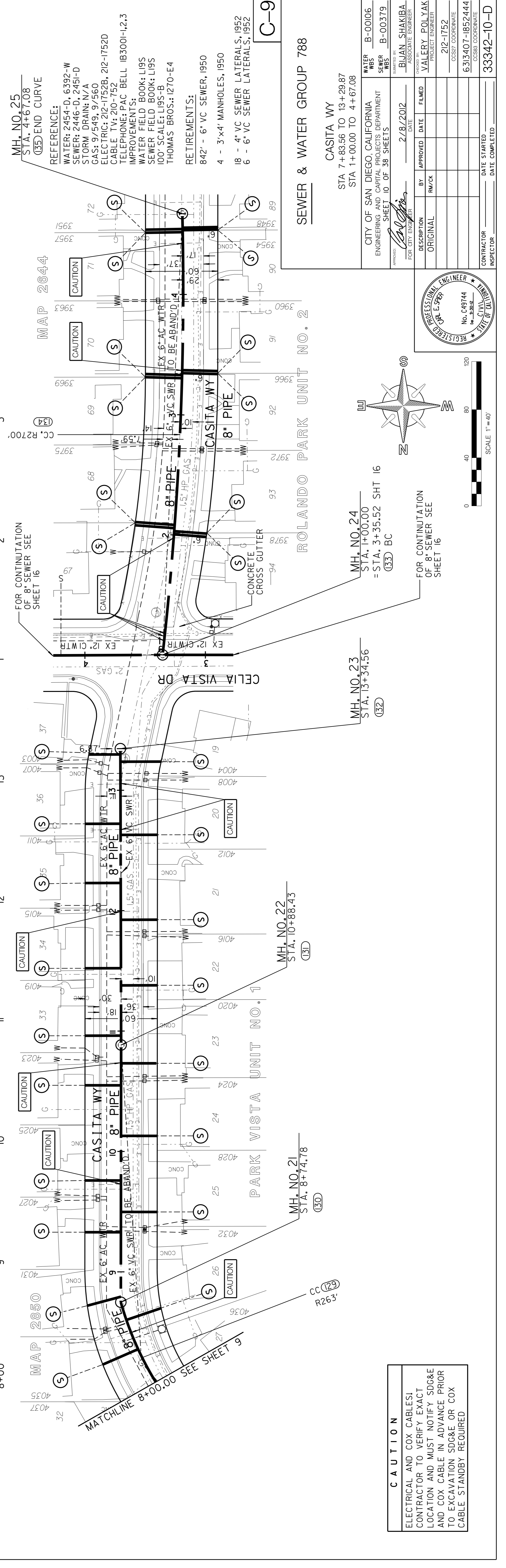
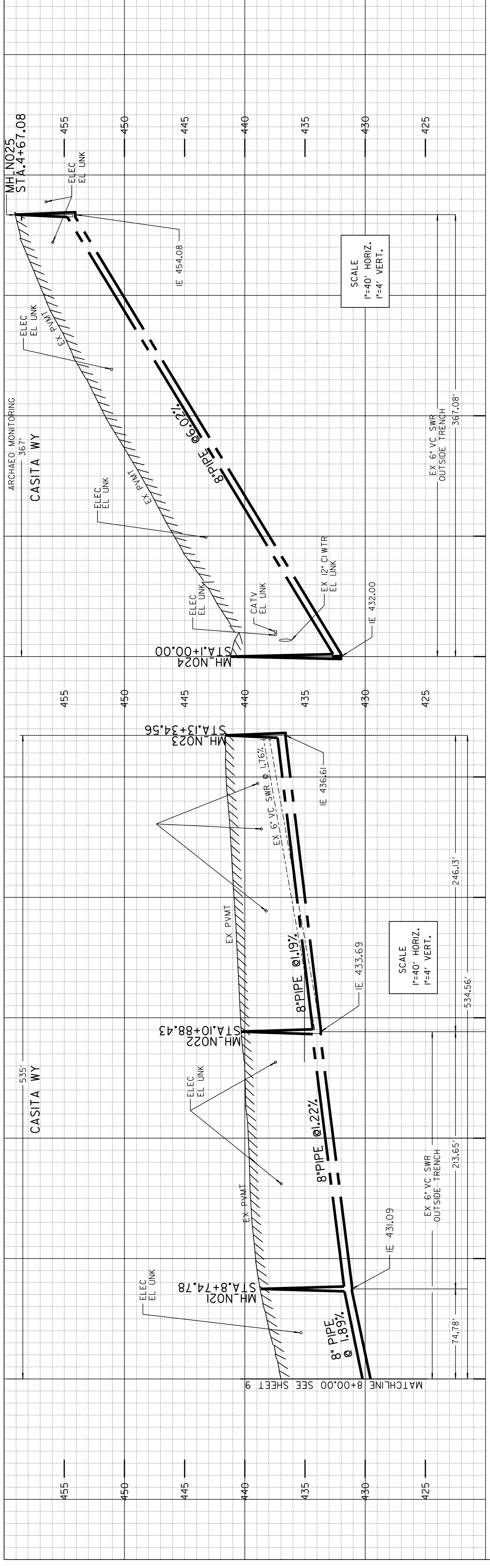
SEWER & WATER GROUP 788		CASITA WY		STA 1+00.00 TO STA 7+83.56	
CITY OF SAN DIEGO CALIFORNIA SEWER AND CAPITAL PROJECTS DEPARTMENT ENGINEERING SHEET 9 OF 38 SHEETS					
DESIGNER	BY	APPROVED	DATE	FILED	
ORIGINAL	RM/CK		2/8/2012		
DRAWN BY: <b>BLIAN SHAKIRA</b> ASSOCIATE ENGINEER			CHECKED BY: <b>VALERY POLYAK</b> PROJECT ENGINEER		
WATER WBS: B-00106			SEWER WBS: B-00379		
PROJECT NO: 633407-1854444			COORDINATOR: 214-1752		
CONTRACTOR: 33342-09-D			DATE STARTED: _____		
INSPECTOR: _____			DATE COMPLETED: _____		



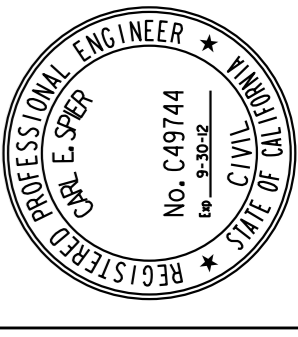
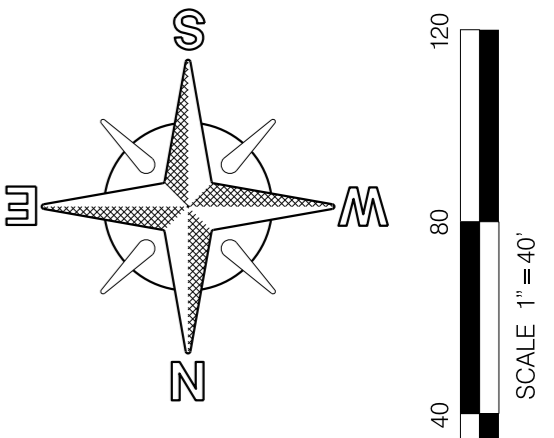
**CAUTION**  
 ELECTRICAL AND COX CABLES  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED

**CAUTION**  
 USE EXTREME CAUTION WHEN WORKING DUE TO  
 LOW OVERHEAD UTILITY LINES.





**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED



FOR CONTINUATION  
OF 8" SEWER SEE  
SHEET 16

MH. NO. 23  
STA. 13+34.56  
(132)

MH. NO. 24  
STA. 1+00.00  
= STA. 3+35.52 SHT 16  
(133) BC

MH. NO. 22  
STA. 10+88.43  
(131)

MH. NO. 21  
STA. 8+74.78  
(130)

MH. NO. 25  
STA. 4+67.08  
(135) END CURVE

REFERENCE:  
WATER: 2454-D, 6392-W  
SEWER: 2446-D, 2451-D  
STORM DRAIN: N/A  
GAS: 9/549, 9/560  
ELECTRIC: 212-1752B, 212-1752D  
CABLE TV: 210-752  
TELEPHONE: PAC BELL IB3001-1,2,3  
IMPROVEMENTS:  
WATER FIELD BOOK: L19S  
SEWER FIELD BOOK: L19S-B  
100' SCALE: L19S-B  
THOMAS BROS.: I270-E4

RETIREMENTS:  
842' - 6" VC SEWER, 1950  
4 - 3"x4" MANHOLES, 1950  
18 - 4" VC SEWER LATERALS, 1952  
6 - 6" VC SEWER LATERALS, 1952

SEWER & WATER GROUP 788

CASITA WY  
STA 7+83.56 TO 13+29.87  
STA 1+00.00 TO 4+67.08

CITY OF SAN DIEGO CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SHEET 10 OF 38 SHEETS

APPROVED BY: *Valery Pol Yak*  
FOR CITY ENGINEER

DATE: 2/8/2012

BY: APPROVED DATE FILMED  
RM/CK ORIGINAL

DESIGNED BY: BILAN SHAKIRA  
ASSOCIATE ENGINEER

PROJECT ENGINEER: VALERY POL YAK

212-1752  
GCS87 COORDINATE

6313407-1852444  
CC888 COORDINATE

33342-10-D  
DATE STARTED  
DATE COMPLETED

MAP 2644

FOR CONTINUATION  
OF 8" SEWER SEE  
SHEET 16

CAUTION

EX. 6" AC WTR  
TO BE ABAND'D

EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

EX. 6" AC WTR  
TO BE ABAND'D

EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

CONCRETE  
CROSS GUTTER

MAP 2850

MATCHLINE 8+00.00 SEE SHEET 9

MATCHLINE 13+00.00 SEE SHEET 17

MAP 2850

MATCHLINE 8+00.00 SEE SHEET 9

MATCHLINE 13+00.00 SEE SHEET 17

CAUTION

EX. 6" AC WTR  
TO BE ABAND'D

EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

EX. 6" AC WTR  
TO BE ABAND'D

EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

CONCRETE  
CROSS GUTTER

MAP 2644

FOR CONTINUATION  
OF 8" SEWER SEE  
SHEET 16

CAUTION

EX. 6" AC WTR  
TO BE ABAND'D

EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

EX. 6" VC SWR

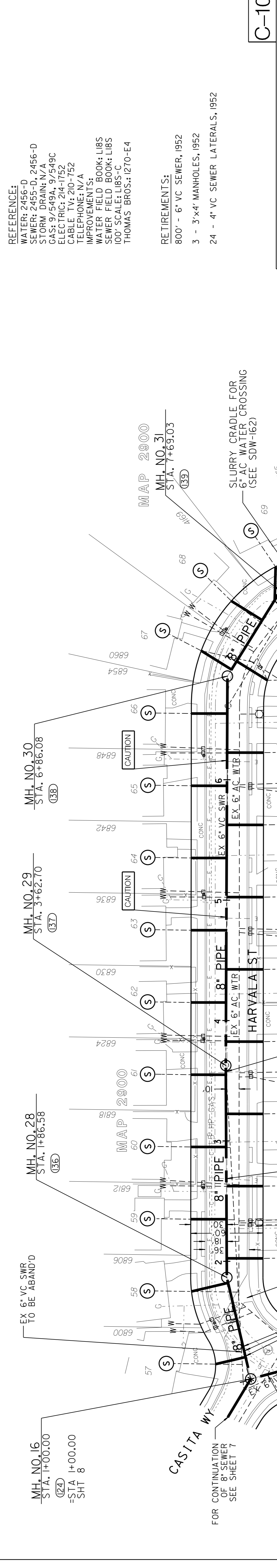
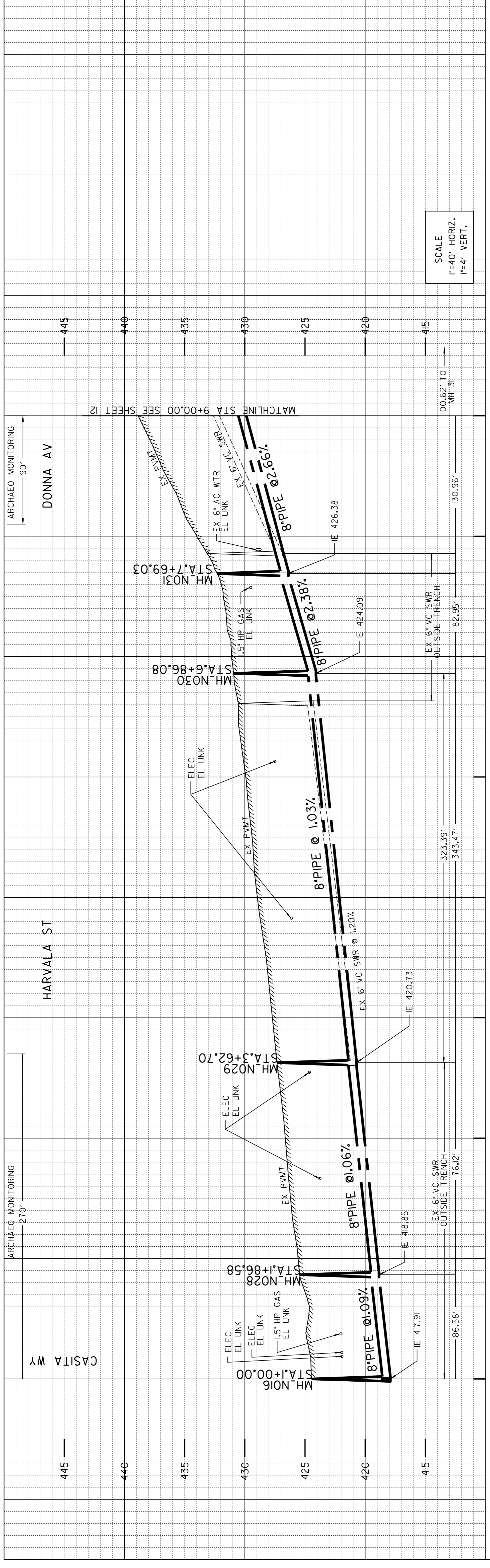
EX. 12" C/WTR  
EL UNK

EX. 6" AC WTR  
TO BE ABAND'D

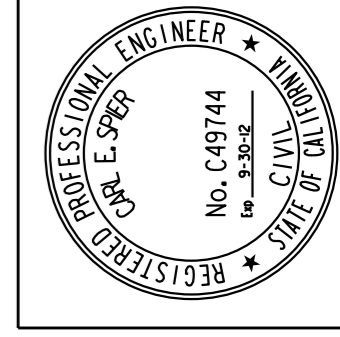
EX. 6" VC SWR

EX. 12" C/WTR  
EL UNK

CONCRETE  
CROSS GUTTER



SEWER & WATER GROUP 788		HARVALA ST	
STA 1+00.00 TO STA 9+00.00			
CITY OF SAN DIEGO CALIFORNIA	ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	WATER WBS B-00106	SEWER WBS B-00379
SHEET II OF 38 SHEETS		DATE 2/8/2012	FILED
APPROVED FOR CITY ENGINEER	BY: <i>Bijan Shakira</i>	DATE 2/8/2012	FILED
DESCRIPTION ORIGINAL	BY: VALERY POLYAK	DATE	FILED
	PROJECT ENGINEER		
	ASSOCIATE ENGINEER		
	PROJECT ENGINEER		
	PROJECT ENGINEER		
	PROJECT ENGINEER		
	PROJECT ENGINEER		
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		



REFERENCE:  
 WATER: 2456-D  
 SEWER: 2455-D, 2456-D  
 STORM DRAIN: N/A  
 GAS: 9/549A, 9/549C  
 ELECTRIC: 24-1752  
 CABLE TV: 210-752  
 TELEPHONE: N/A  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L18S  
 SEWER FIELD BOOK: L18S  
 100' SCALE: L18S-C  
 THOMAS BROS.: 1270-E4

RETIREMENTS:  
 800' - 6" VC SEWER, 1952  
 3 - 3"x4" MANHOLES, 1952  
 24 - 4" VC SEWER LATERALS, 1952

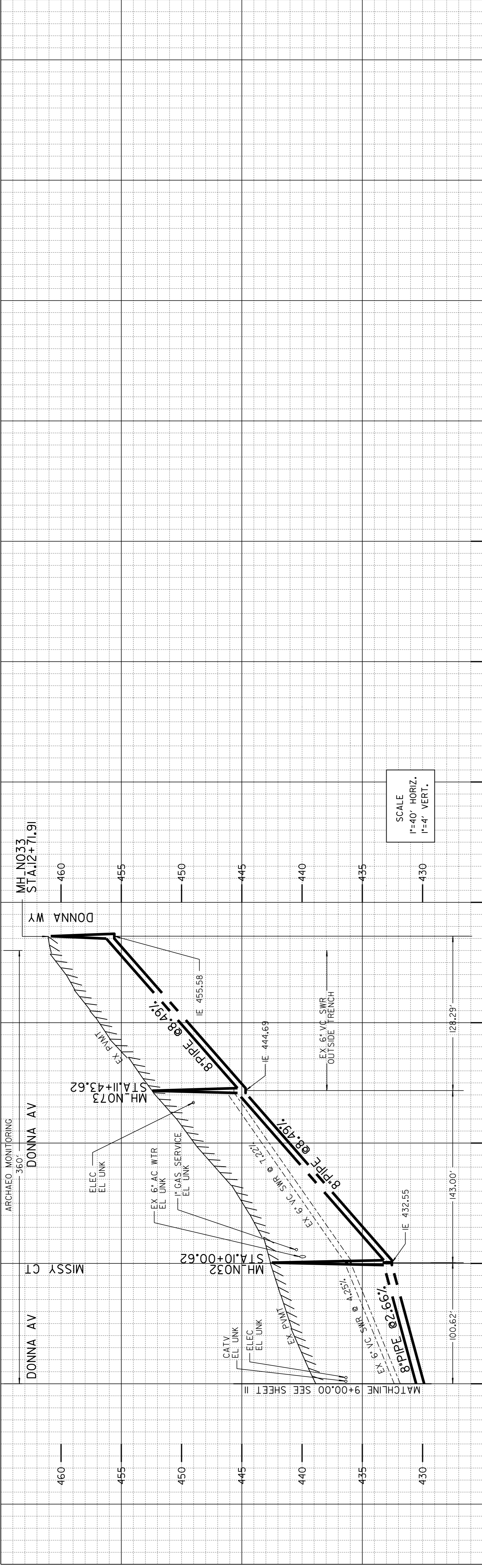
PARK VISTA UNIT NO. 2  
 CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO  
 LOW OVERHEAD UTILITY LINES.

CAUTION  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED

FOR CONTINUATION  
 OF 8" SEWER  
 SEE SHEET 8

FOR CONTINUATION  
 OF 8" SEWER  
 SEE SHEET 7





9+00 10 11 12 13

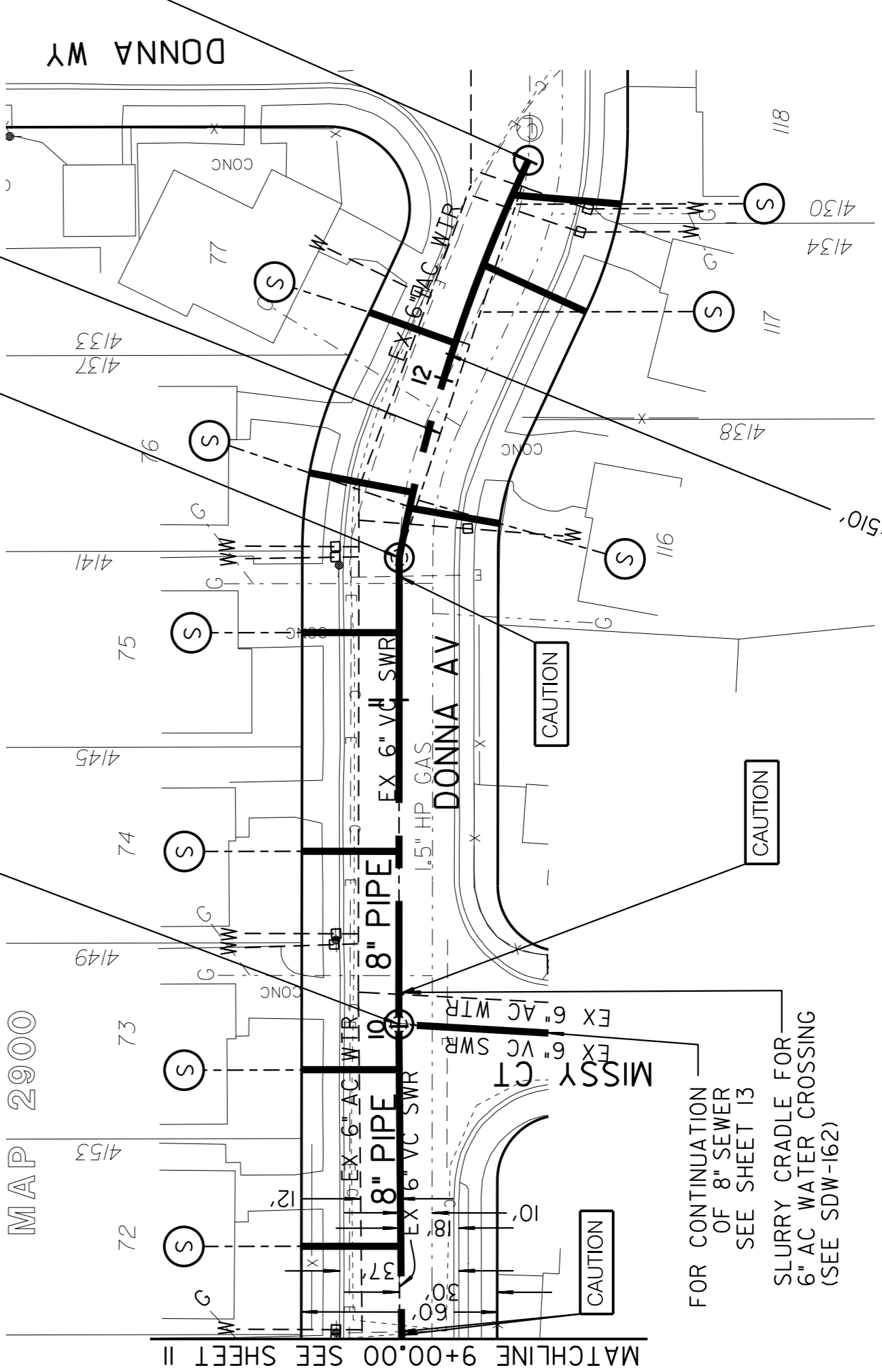
**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

MH. NO. 32  
STA. 10+00.62  
(44) BC  
= STA 6+57.30  
SHT 13

MH. NO. 73  
STA. 11+43.62  
(44) BC

MH. NO. 33  
STA. 12+71.91  
(43) EC

MH. NO. 77  
STA. 12+71.91  
(43) EC



**CAUTION**  
FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 13  
SLURRY CRADLE FOR  
6" AC WATER CROSSING  
(SEE SOW-162)

MH. NO. 32  
STA. 10+00.62  
(44) BC  
= STA 6+57.30  
SHT 13

MH. NO. 73  
STA. 11+43.62  
(44) BC

MH. NO. 33  
STA. 12+71.91  
(43) EC

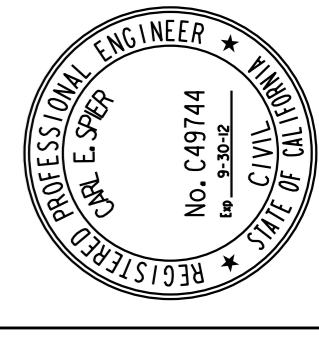
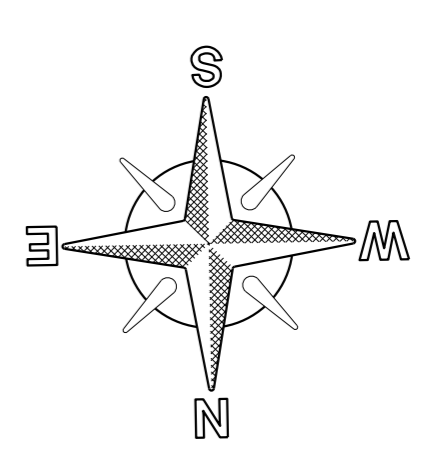
MH. NO. 77  
STA. 12+71.91  
(43) EC

**REFERENCE:**  
WATER: 2456-D  
SEWER: 2455-D  
STORM DRAIN: N/A  
GAS: 97/549B, 97/549C  
ELECTRIC: 214-1752  
CABLE TV: 210-752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L18S  
SEWER FIELD BOOK: L18S  
100% SCALE: L18S-C  
THOMAS BROS.: 1270-E4

**RETIREMENTS:**  
359.22' - 6" VC SEWER, 1952  
2 - 3'x4' MANHOLES, 1952  
9 - 4" VC SEWER LATERALS, 1952

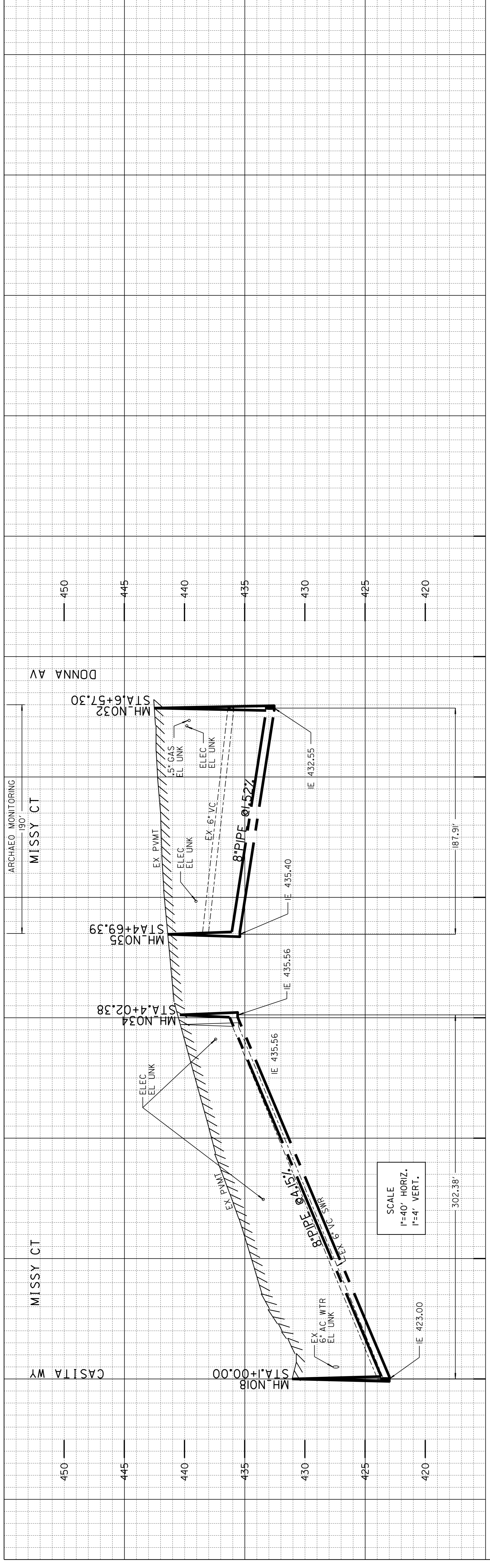
C-11

SEWER & WATER GROUP 788		DONNA AV	
STA 9+00.00 TO STA 12+64.24			
CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 12 OF 38 SHEETS	WATER WBS B-00106	SEWER WBS B-00379	PROJECT ENGINEER
APPROVED BY: <i>Valery Polyak</i> FOR CITY ENGINEER	DATE: 2/8/2012	ASSOCIATE ENGINEER	DATE: 2/8/2012
DESCRIPTION: ORIGINAL	BY: RM/CK	APPROVED DATE: 2/8/2012	FILED
CONTRACTOR: _____	INSPECTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____



**CONTRACTOR'S NOTE:**  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.

DONNA AV



1+00 2 3 4 5 6 7

**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

MH. NO. 34  
STA. 4+02.38  
(144)

MH. NO. 35  
STA. 4+69.39  
(145)

MH. NO. 32  
STA. 6+57.30  
(140)  
=STA 10+00.62 SHT 12

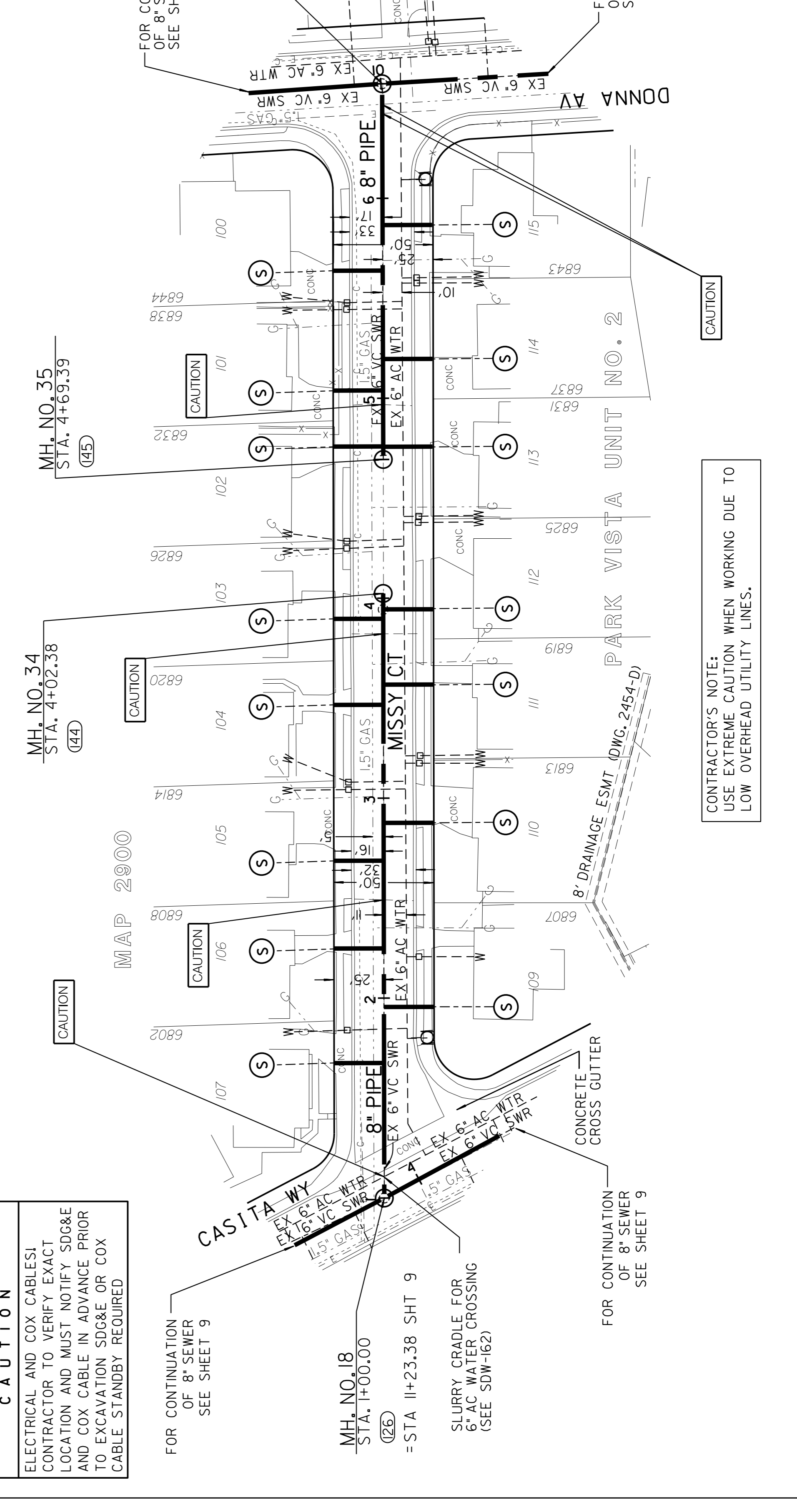
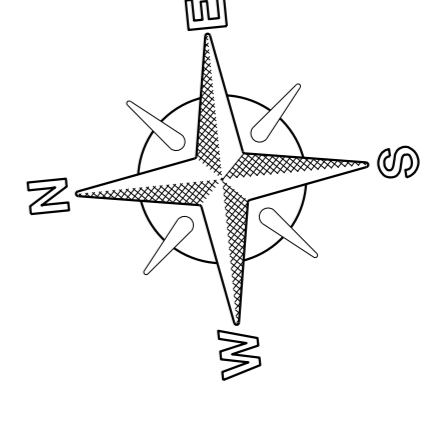
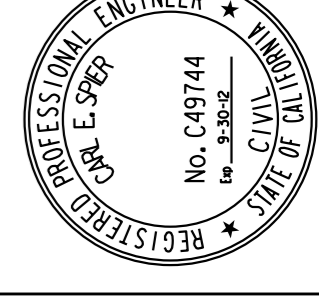
**REFERENCE:**  
WATER: 2457-D  
SEWER: 2457-D  
STORM DRAIN: 2454-D  
GAS: 9/549A, 9/549B  
ELECTRIC: 214-1752  
CABLE TV: 210-752  
TELEPHONE: N/A  
**IMPROVEMENTS:**  
WATER FIELD BOOK: L18  
SEWER FIELD BOOK: L18  
100% SCALE: L18-C  
THOMAS BROS.: 1270-E4

**RETIREMENTS:**  
482.84' - 6" VC SEWER, 1952  
1 - 3' X 4' MANHOLES, 1952  
15 - 4" VC SEWER LATERALS, 1952

C-12

**SEWER & WATER GROUP 788**  
MISSY CT  
STA 1+00.00 TO STA 6+57.30

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 13 OF 38 SHEETS	WATER WBS B-00106
APPROVED BY: <i>Brian Shakira</i> FOR CITY ENGINEER	SEWER WBS B-00379
DATE: 2/8/2012	DESIGNED BY: <i>Brian Shakira</i> ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: APPROVED DATE FILMED
	RM/CK DATE
	214-1752
	6313407-1854444
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____



CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.

FOR CONTINUATION OF 8" SEWER  
SEE SHEET 9

FOR CONTINUATION OF 8" SEWER  
SEE SHEET 12

FOR CONTINUATION OF 8" SEWER  
SEE SHEET 9

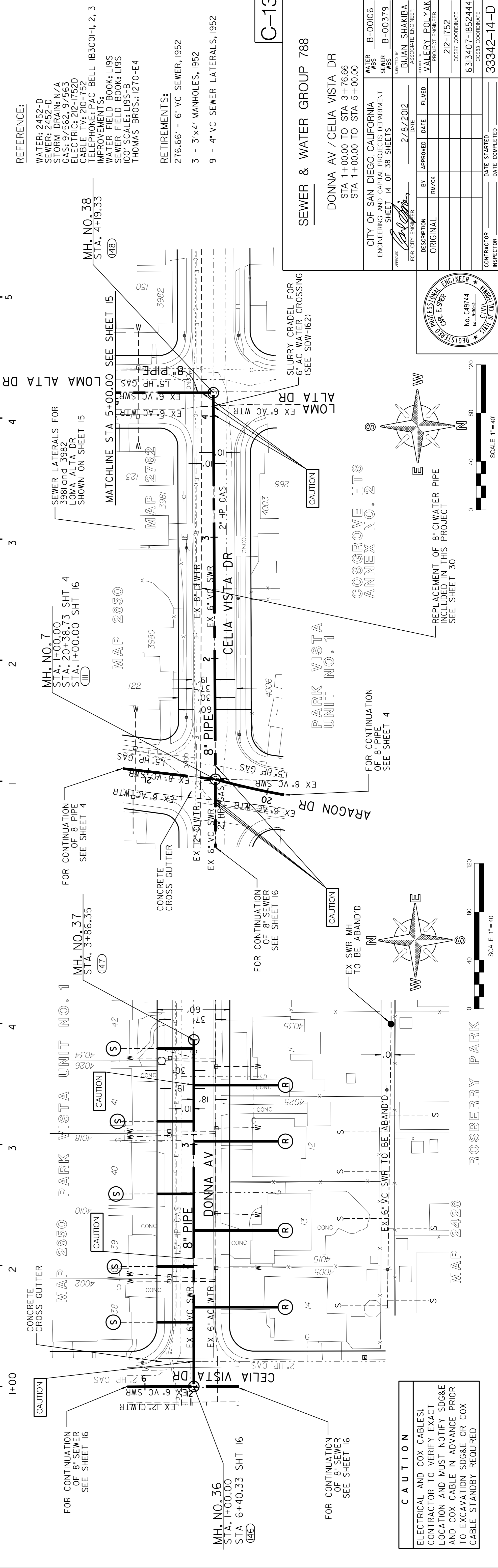
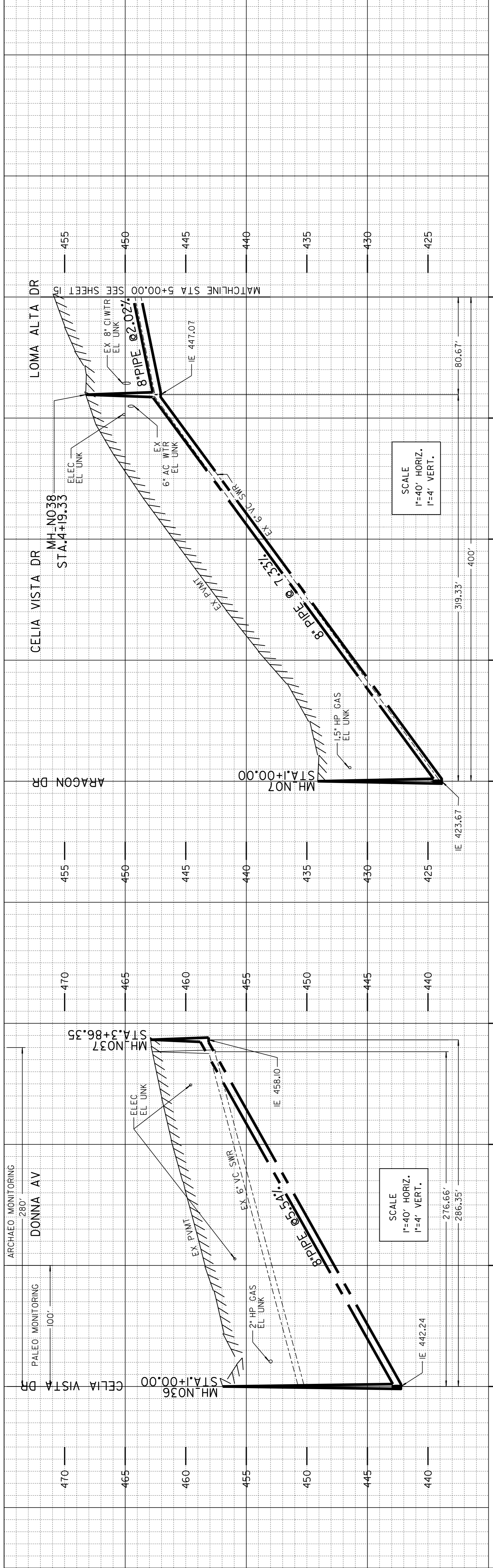
FOR CONTINUATION OF 8" SEWER  
SEE SHEET 9

FOR CONTINUATION OF 8" SEWER  
SEE SHEET 9

FOR CONTINUATION OF 8" SEWER  
SEE SHEET 9

FOR CONTINUATION OF 8" SEWER  
SEE SHEET 9





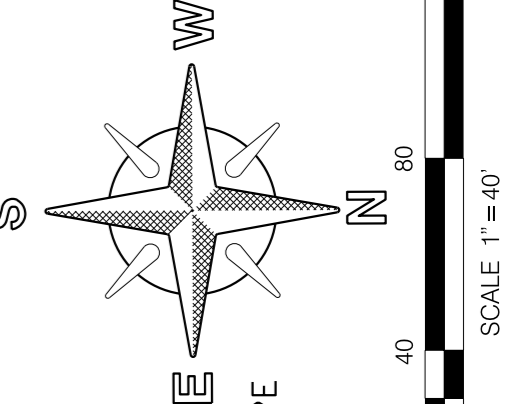
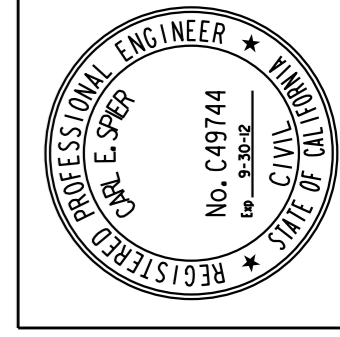
**REFERENCE:**  
 WATER: 2452-D  
 SEWER: 2452-D  
 STORM DRAIN: N/A  
 GAS: 9/562, 9/563  
 ELECTRIC: 212-1752  
 CABLE TV: 210-752  
 TELEPHONE: PAC BELL IB3001-1, 2, 3  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L195  
 SEWER FIELD BOOK: L195-B  
 100' SCALE: L195-B  
 THOMAS BROS.: I270-E4

**RETIREMENTS:**  
 276.66' - 6" VC SEWER, 1952  
 3 - 3"x4" MANHOLES, 1952  
 9 - 4" VC SEWER LATERALS, 1952

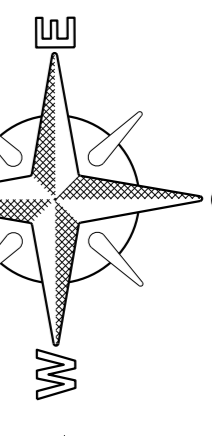
C-13

**SEWER & WATER GROUP 788**  
 DONNA AV / CELIA VISTA DR  
 STA 1+00.00 TO STA 3+76.66  
 STA 1+00.00 TO STA 5+00.00

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 14 OF 38 SHEETS	WATER WBS B-00106 SEWER WBS B-00379
APPROVED BY: <i>Bijan Shakira</i> FOR CITY ENGINEER	DATE: 2/8/2012
DESCRIPTION: ORIGINAL	BY: APPROVED DATE FILED
	RM/CK
	VALERY POLYAK PROJECT ENGINEER
	212-1752
	CGS27 COORDINATE
	6313407-1852444
	CGS88 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____

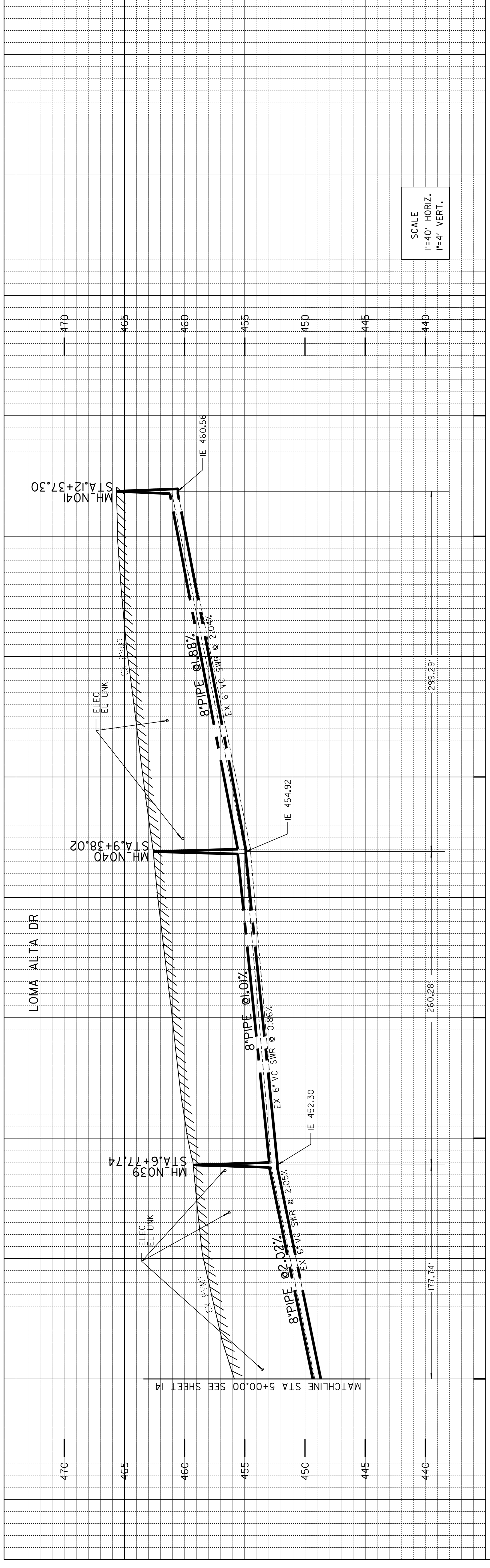


**CAUTION**  
 REPLACEMENT OF 8" CI WATER PIPE  
 INCLUDED IN THIS PROJECT  
 SEE SHEET 30



**CAUTION**  
 EX SWR MH  
 TO BE ABAND'D

**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED



SCALE  
1"=40' HORIZ.  
1"=4' VERT.

REFERENCE:

WATER: 6392-W  
SEWER: 2447-D  
STORM DRAIN: N/A  
GAS: 97556, 97557  
ELECTRIC: 212-1752A, 212-1752A  
CABLE TV: 20-752  
IMPROVEMENTS:  
WATER FIELD BOOK: L19S  
SEWER FIELD BOOK: L19S  
100' SCALE: L19S-B  
THOMAS BROS.: 1270-E4

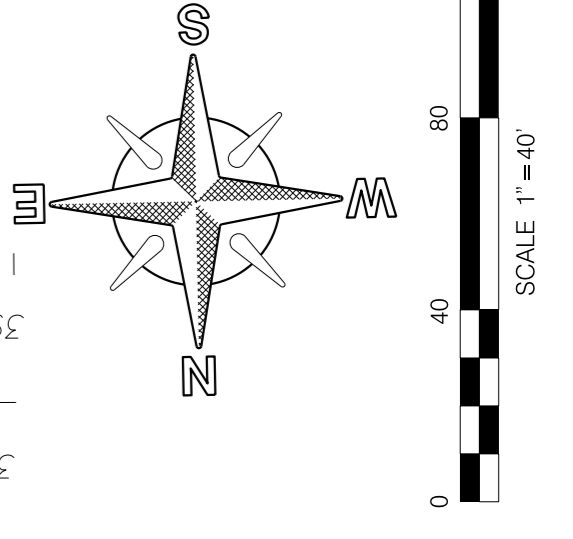
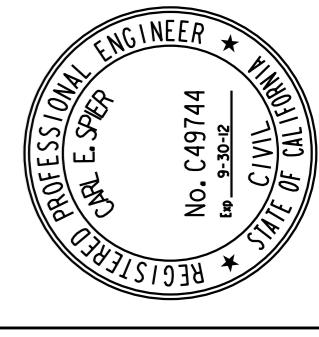
RETIREMENTS:

737.3' - 6" VC SEWER, 1950  
3 - 3'x4' MANHOLES, 1950  
14 - 6" VC SEWER LATERALS, 1950

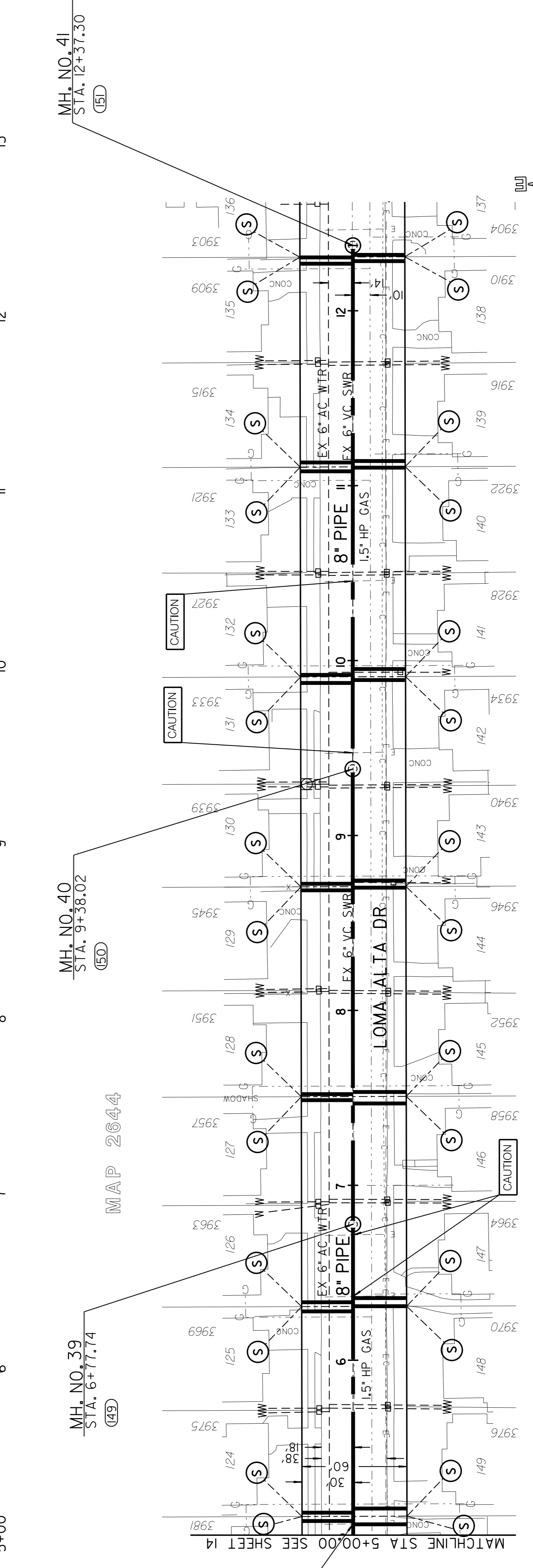
C-14

SEWER & WATER GROUP 788  
LOMA ALTA DR  
STA 5+00.00 TO STA 12+37.30

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SEWER SHEET 15 OF 38 SHEETS	WATER WBS B-00106 SEWER WBS B-00379
APPROVED BY: <i>Brian Shakira</i> FOR CITY ENGINEER	DATE: 2/8/2012
DESIGNER: ORIGINAL	BY: APPROVED DATE FILMED
	RM/CK DATE
	DATE
	DATE
	DATE
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____

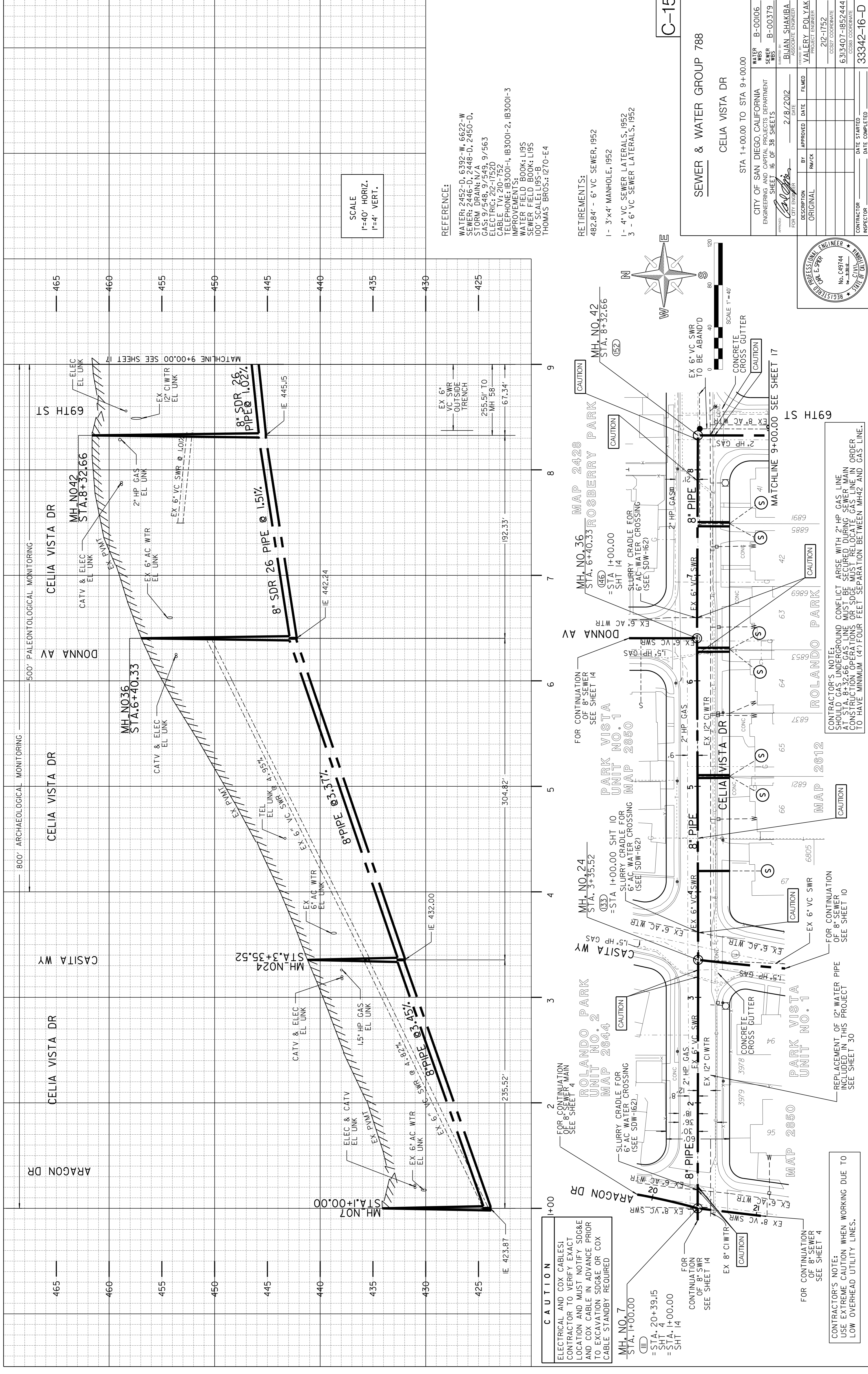


ROLANDO PARK UNIT NO. 2



**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED





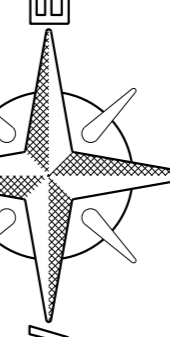
SCALE  
1"=40' HORIZ.  
1"=4' VERT.

REFERENCE:

WATER: 2452-D, 6392-W, 6622-W  
SEWER: 2446-D, 2448-D, 2450-D,  
STORM DRAIN: N/A  
GAS: 9/548, 9/549, 9/563  
ELECTRIC: 212-17520  
CABLE TV: 210-752  
IMPROVEMENTS:  
WATER FIELD BOOK: L195  
SEWER FIELD BOOK: L195  
100' SCALE: L195-B  
THOMAS BROS.: 1270-E4

RETIREMENTS:

482.84' - 6" VC SEWER, 1952  
1 - 3'x4' MANHOLE, 1952  
1 - 4" VC SEWER LATERALS, 1952  
3 - 6" VC SEWER LATERALS, 1952



**SEWER & WATER GROUP 788**  
CELIA VISTA DR

STA 1+00.00 TO STA 9+00.00

CITY OF SAN DIEGO CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SHEET 16 OF 38 SHEETS

APPROVED BY: *Bijan Shakiba*  
FOR CITY ENGINEER: BIJAN SHAKIBA  
ASSOCIATE ENGINEER

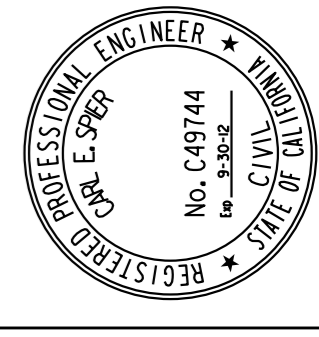
DATE: 2/8/2012

DESIGNER: VALERY POLYAK  
PROJECT ENGINEER

DATE: 2/2-1752

WATER WBS: B-00106  
SEWER WBS: B-00379

CONTRACTOR: 6313407-1852444  
COORDINATOR: 33342-16-D



**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

MH. NO. 7  
STA. 1+00.00  
= STA. 20+39.15  
SHT 4  
= STA. 1+00.00  
SHT 14

FOR CONTINUATION  
OF 8" SWR  
SEE SHEET 14

FOR CONTINUATION  
OF 8" SWR  
SEE SHEET 4

CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.

REPLACEMENT OF 12" WATER PIPE  
INCLUDED IN THIS PROJECT  
SEE SHEET 30

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 10

CAUTION

CONTRACTOR'S NOTE:  
CONFLICT GAS UNDERGROUND  
SHOULD ARISE WITH 2" HP GAS LINE  
AT STA. 8+32.66 GAS LINE MUST BE  
SECURED DURING SEWER MAIN  
CONSTRUCTION OPERATIONS OR SDGE  
MUST RELOCATE GAS LINE IN ORDER  
TO HAVE MINIMUM (4') FOUR FEET  
SEPARATION BETWEEN MH42 AND GAS LINE.

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 14

MH. NO. 24  
STA. 3+35.52  
(33)  
= STA. 1+00.00 SHT 10  
SLURRY CRADLE FOR  
6" AC WATER CROSSING  
(SEE SDW-162)

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 10

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 10

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 14

MH. NO. 36  
STA. 6+40.33  
(46)  
= STA. 1+00.00  
SLURRY CRADLE FOR  
6" AC WATER CROSSING  
(SEE SDW-162)

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

MH. NO. 42  
STA. 8+32.66  
(52)

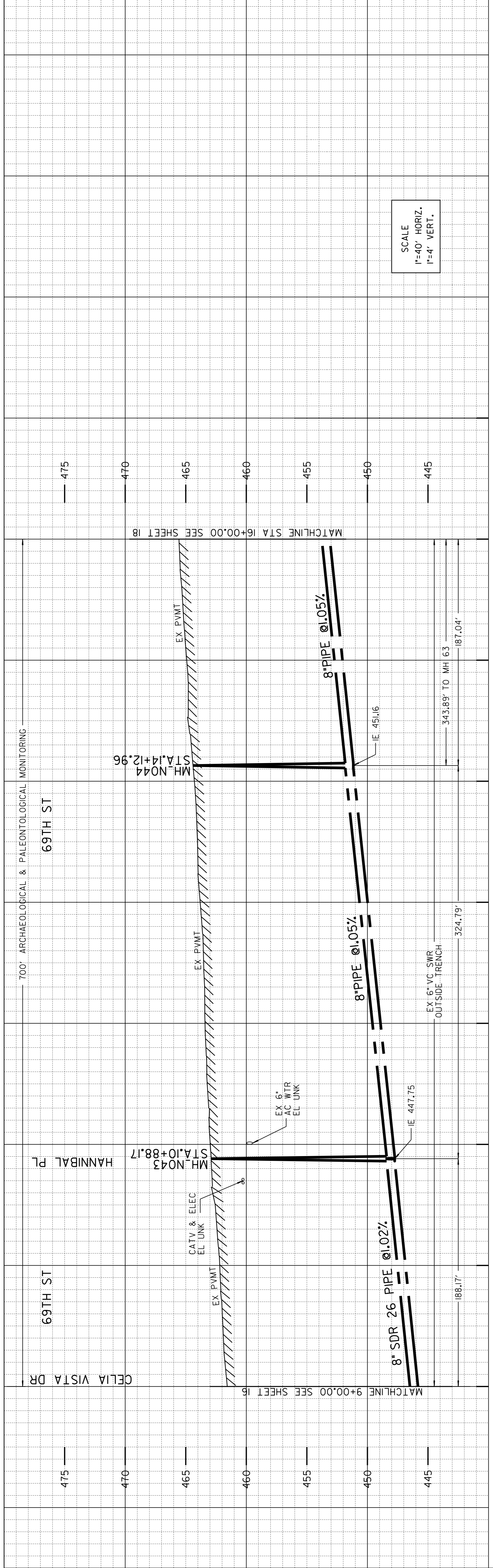
FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 17



SCALE  
1"=40' HORIZ.  
1"=4' VERT.

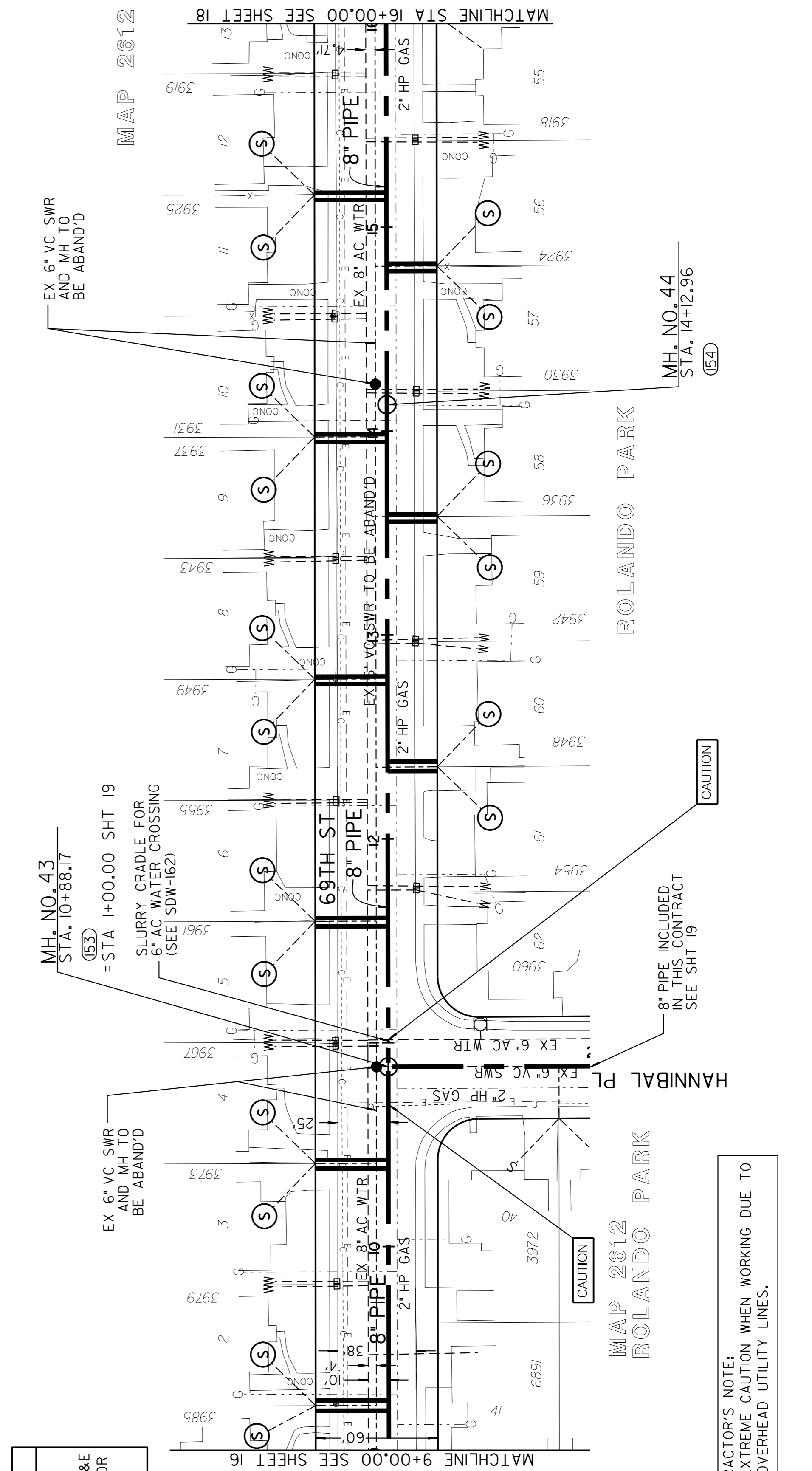
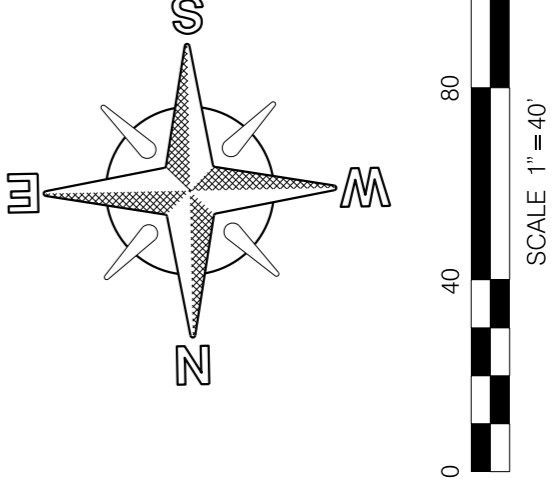
**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

**REFERENCE:**

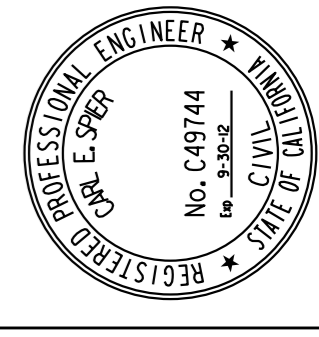
WATER: 6390-W, 6392-W, 6622-33-W  
SEWER: 2448-D  
STORM DRAIN: N/A  
GAS: 9/562  
ELECTRIC: 212-1752B, 212-1752D  
CABLE TV: 210-752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L19S  
SEWER FIELD BOOK: L19S  
100' SCALE: L19S-B  
THOMAS BROS.: 1270-E4

**RETIREMENTS:**

700' - 6" VC SEWER, 1950  
2 - 3'x4' MANHOLES, 1950  
9 - 6" VC SEWER LATERALS, 1950



CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.



DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	RW/CK		2/8/2012	

STA 9+00.00 TO STA 16+00.00

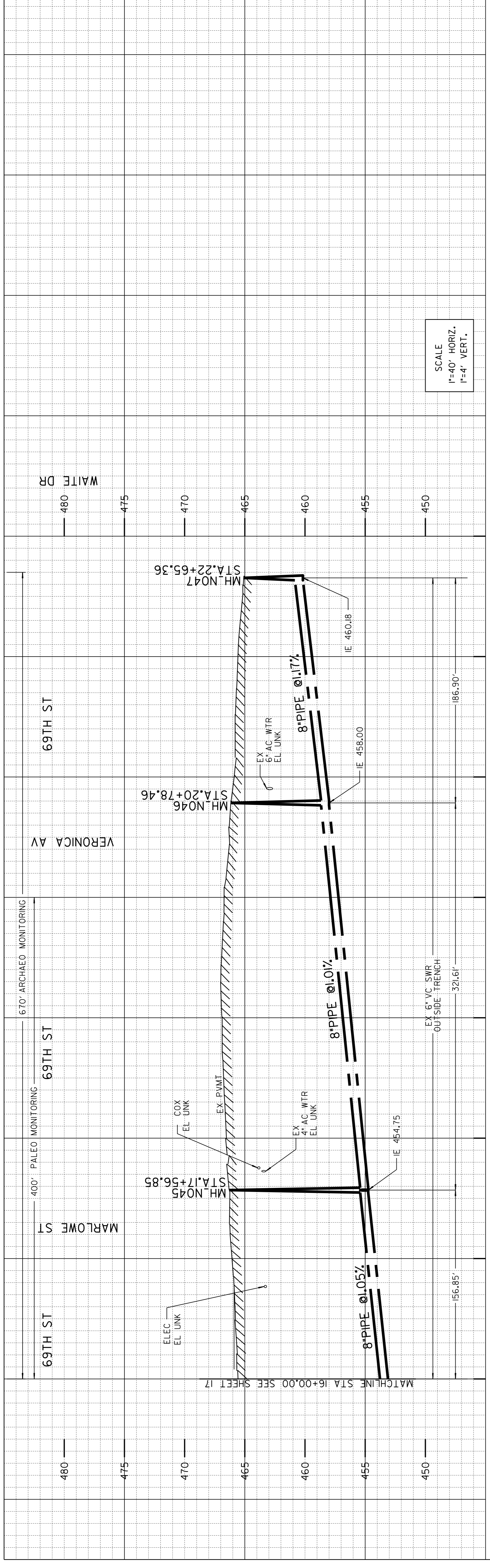
SEWER & WATER GROUP 788  
69TH ST

C-16

WATER	B-00106
SEWER	B-00379
PROJECT ENGINEER	BLIAN SHAKIRA
ASSOCIATE ENGINEER	VALERY POLYAK
PROJECT ENGINEER	212-1752
COORDINATOR	6313407-1852444
COORDINATOR	33342-17-D

69TH ST





16+00 17 18 19 20 21 22 23

**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

MH, NO. 45  
STA. 17+56.85  
(119)  
= STA 1+00.00 SHT 6

MH, NO. 46  
STA. 20+78.46  
(155)

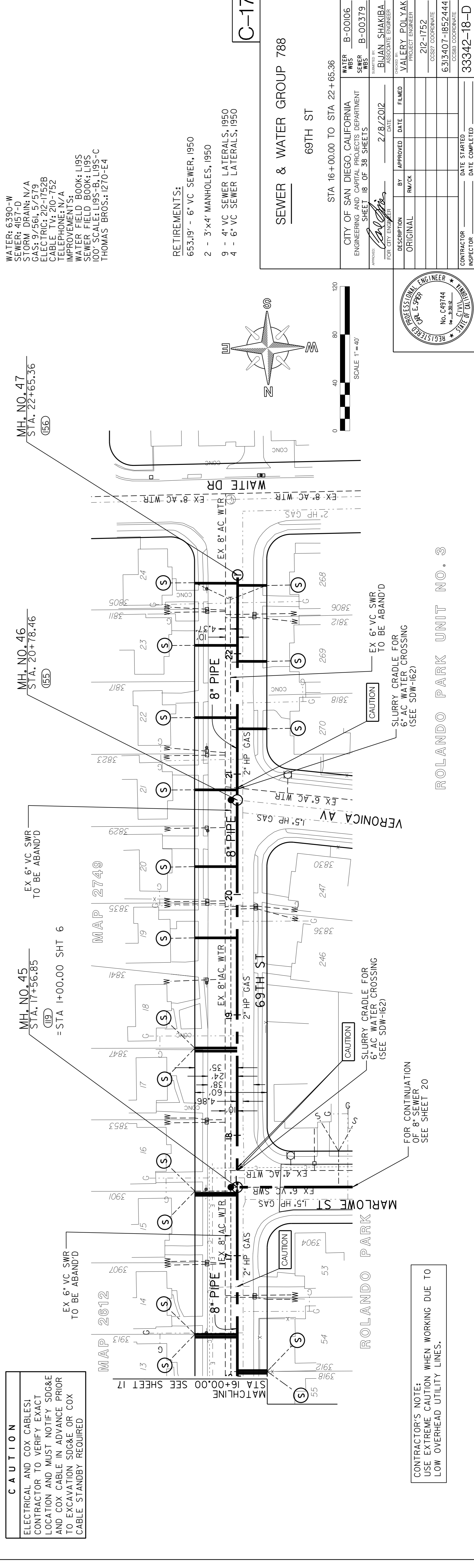
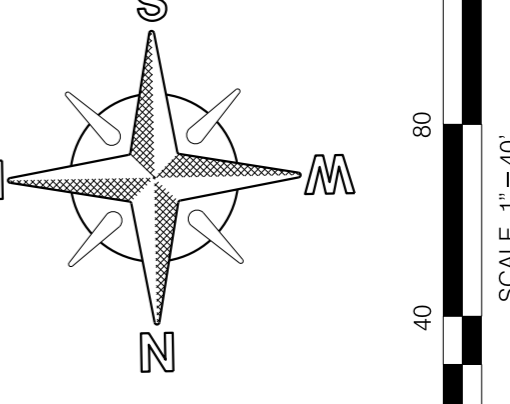
MH, NO. 47  
STA. 22+65.36  
(156)

**REFERENCE:**

WATER: 6390-W  
SEWER: 4157-D  
STORM DRAIN: N/A  
GAS: 9/561, 5/579  
ELECTRIC: 2/2-1752B  
CABLE TV: 210-752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L19S  
SEWER FIELD BOOK: L19S-C  
100' SCALE: L19S-B, L19S-C  
THOMAS BROS.: I270-E4

**RETIREMENTS:**

653.19' - 6" VC SEWER, 1950  
2 - 3"x4" MANHOLES, 1950  
9 - 4" VC SEWER LATERALS, 1950  
4 - 6" VC SEWER LATERALS, 1950



CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 20

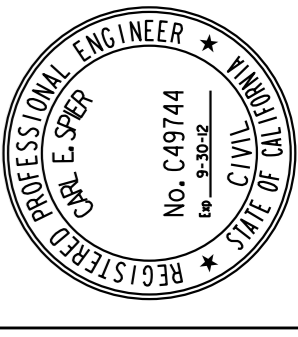
CAUTION  
SLURRY CRADLE FOR  
6" AC WATER CROSSING  
(SEE SDW-162)

CAUTION  
SLURRY CRADLE FOR  
6" AC WATER CROSSING  
(SEE SDW-162)

CAUTION  
EX 6" VC SWR  
TO BE ABAND'D

CAUTION  
EX 6" AC WTR  
TO BE ABAND'D

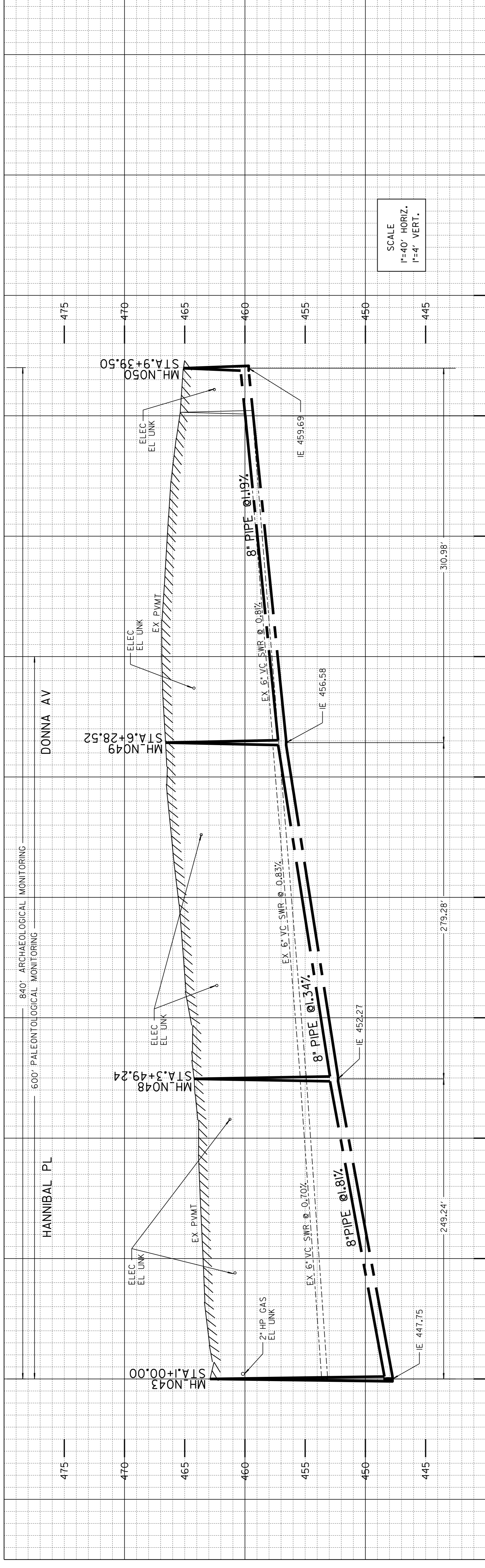
ROLANDO PARK UNIT NO. 3



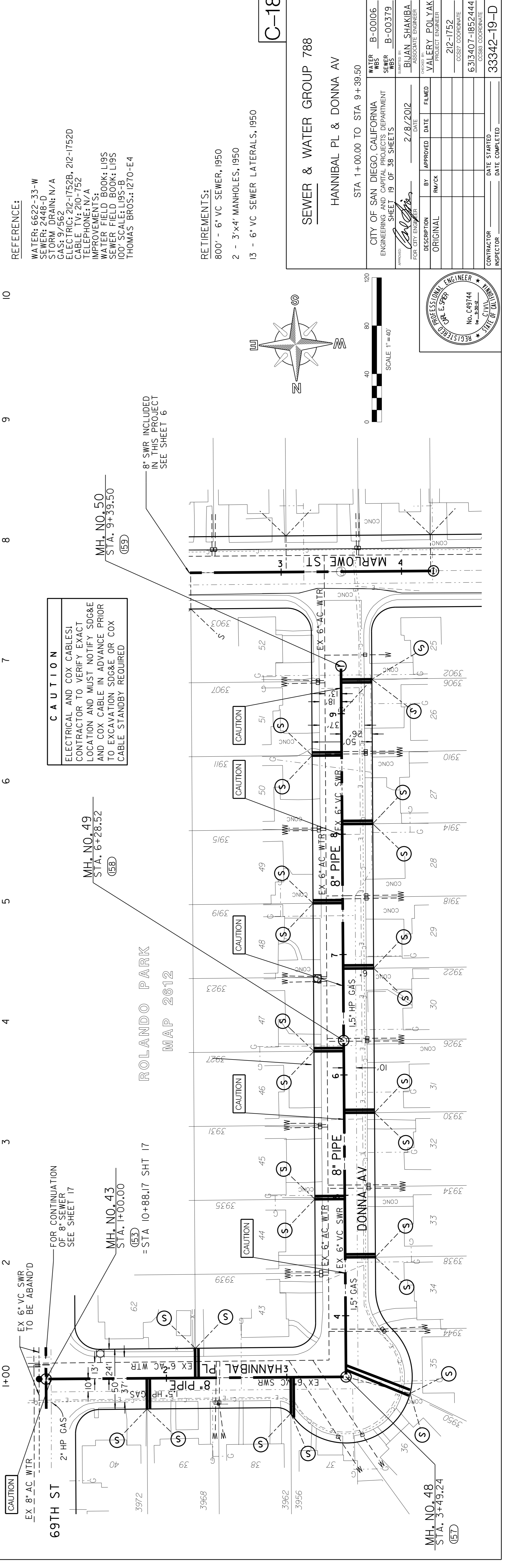
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	RM/CK			
APPROVED FOR CITY ENGINEER: <i>Valery Polyak</i> DATE: 2/8/2012				
ENGINEER: VALERY POLYAK PROJECT ENGINEER				
ASSOCIATE ENGINEER: BILAN SHAKIRA				
WATER: B-00106				
SEWER: B-00379				
SHEET 18 OF 38 SHEETS				
CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT				
STA 16+00.00 TO STA 22+65.36				
SEWER & WATER GROUP 788 69TH ST				
CONTRACTOR: DATE STARTED				
INSPECTOR: DATE COMPLETED				

C-17

69TH ST



SCALE  
1"=40' HORIZ.  
1"=4' VERT.



REFERENCE:

WATER: 6622-33-W  
SEWER: 2448-D  
STORM DRAIN: N/A  
GAS: 9/562  
ELECTRIC: 212-1752B, 212-1752D  
CABLE TV: 210-752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L195  
SEWER FIELD BOOK: L195  
100' SCALE: L195-B  
THOMAS BROS.: I270-E4

RETIREMENTS:  
800' - 6" VC SEWER, 1950  
2 - 3"x4' MANHOLES, 1950  
13 - 6" VC SEWER LATERALS, 1950

**SEWER & WATER GROUP 788**  
**HANNIBAL PL & DONNA AV**

STA 1+00.00 TO STA 9+39.50

CITY OF SAN DIEGO CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SEWER SIBS  
SHEET 19 OF 38 SHEETS

APPROVED BY: *Valery Polyak*  
FOR CITY ENGINEER: VALERY POLYAK  
ASSOCIATE ENGINEER

DATE: 2/8/2012

DATE FILMED: \_\_\_\_\_

DESCRIPTION: ORIGINAL

BY: APPROVED DATE FILMED  
RM/CK \_\_\_\_\_

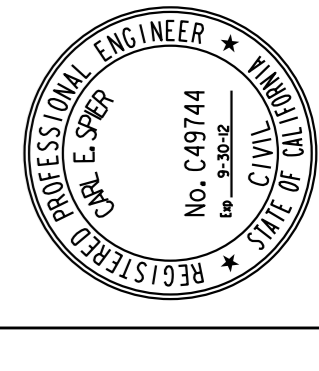
PROJECT ENGINEER: BIJAN SHAKIRA  
ASSOCIATE ENGINEER

PROJECT COORDINATOR: VALERY POLYAK

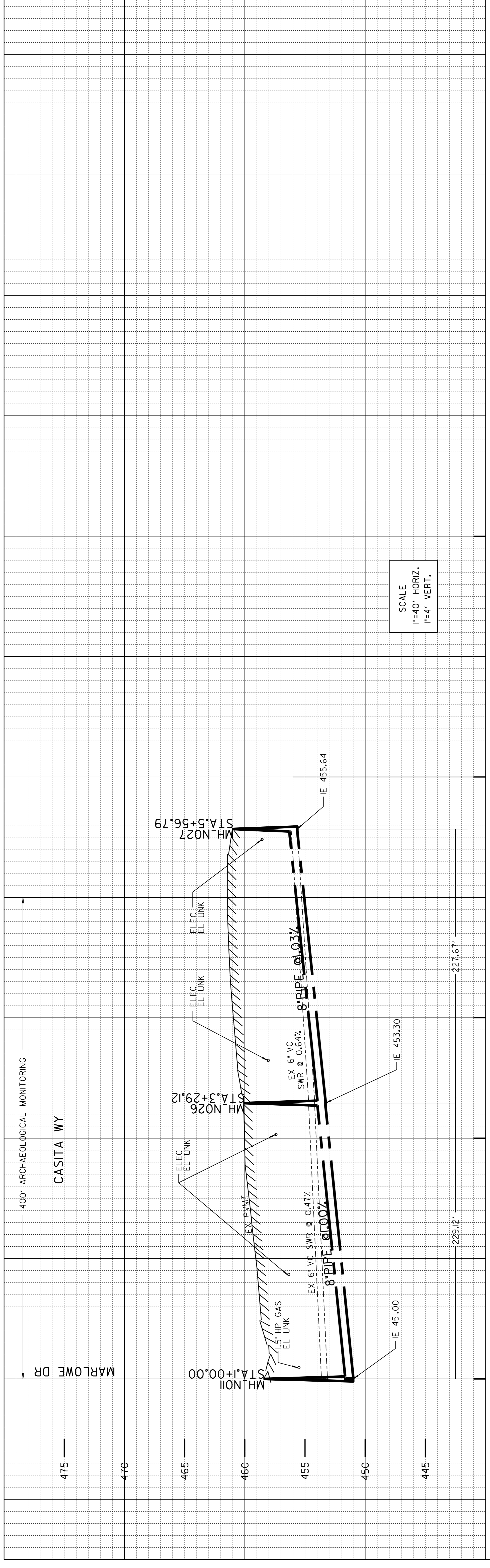
PROJECT NO.: 212-1752

COORDINATE: 6313407-1852444

CONTRACTOR: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ DATE COMPLETED: 33342-19-D







SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

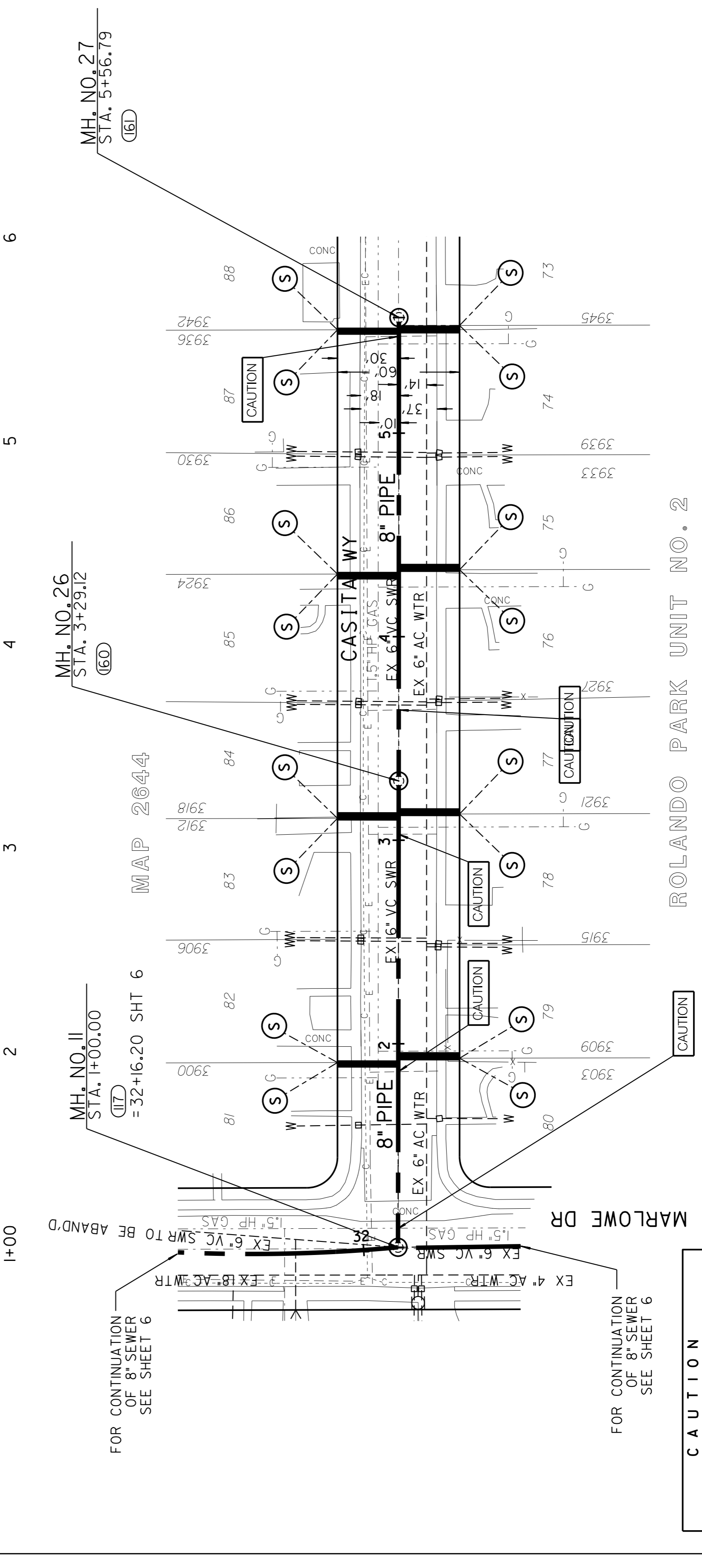
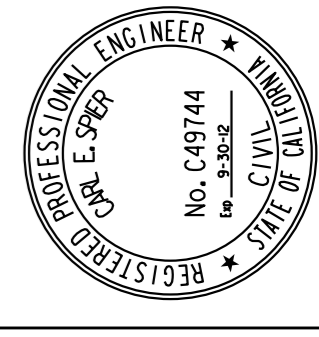
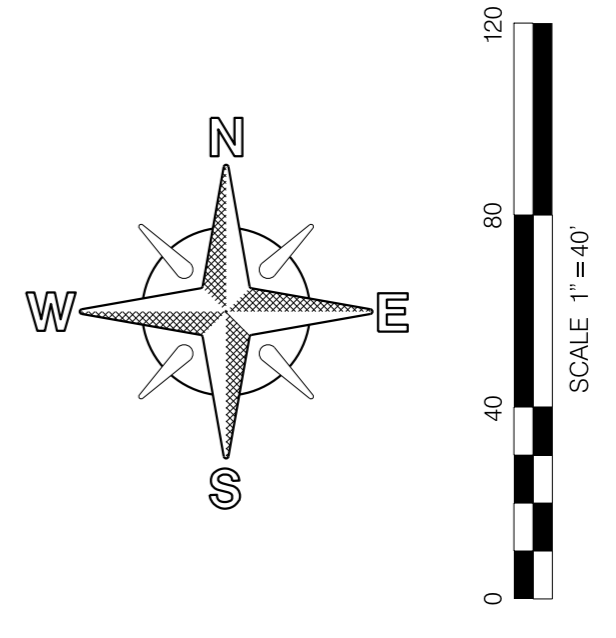
REFERENCE:  
 WATER: 6392-W  
 SEWER: 2446-D  
 STORM DRAIN: N/A  
 GAS: 9/559, 9/560  
 ELECTRIC: 212-1752B  
 CABLE TV: 210-752  
 TELEPHONE: N/A  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L19S  
 SEWER FIELD BOOK: L19S  
 100' SCALE: L19S-B  
 THOMAS BROS.: 1270-E4

RETIREMENTS:  
 457' - 6" VC SEWER, 1950  
 2 - 3"x4" MANHOLES, 1950  
 8 - 6" VC SEWER LATERALS, 1950

C-19

SEWER & WATER GROUP 788  
 CASITA WY & MARLOWE DR  
 STA 1+00.00 TO STA 5+56.79

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 20 OF 38 SHEETS	WATER WBS B-00106 SEWER WBS B-00379
APPROVED BY: <i>Bijan Shakira</i> FOR CITY ENGINEER	DATE: 2/8/2012
DESIGNER: ORIGINAL	BY: APPROVED
DATE: 2/8/2012	DATE: 2/8/2012
FILED	FILED
PROJECT ENGINEER: VALERY POLYAK	PROJECT ENGINEER: VALERY POLYAK
NO. 212-1752	NO. 212-1752
COORDINATE: 6313407-1852444	COORDINATE: 6313407-1852444
DATE STARTED	DATE COMPLETED
CONTRACTOR	CONTRACTOR
INSPECTOR	INSPECTOR
33342-20-D	33342-20-D



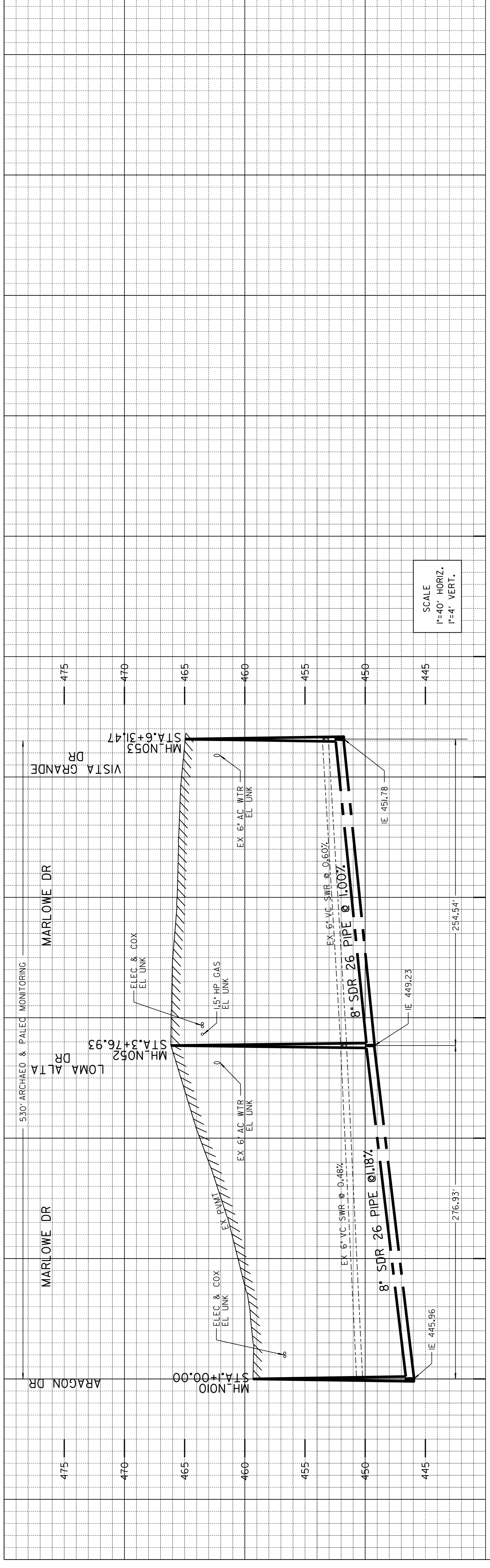
**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED

FOR CONTINUATION  
 OF 8" SEWER  
 SEE SHEET 6

FOR CONTINUATION  
 OF 8" SEWER  
 SEE SHEET 6

ROLANDO PARK UNIT NO. 2

MAP 2644



SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED

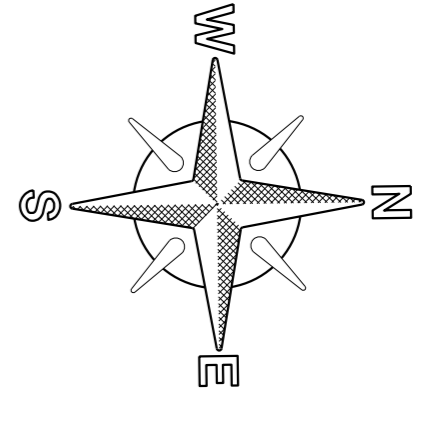
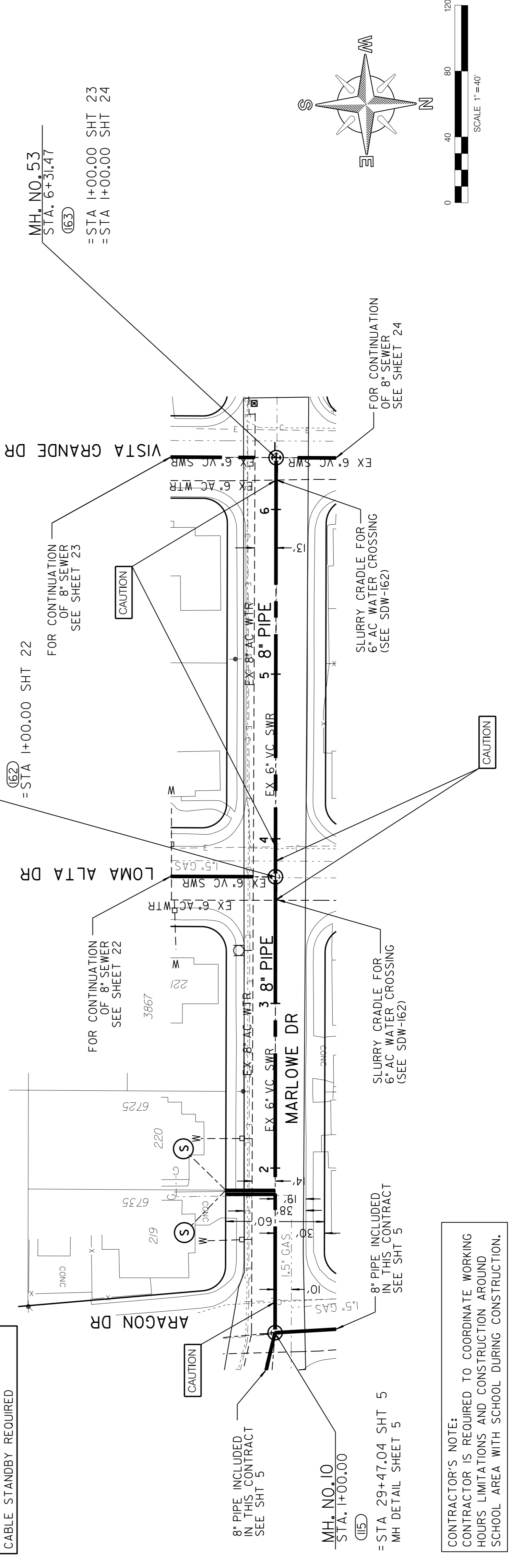
ROLANDO PARK UNIT NO. 2  
 MAP 2644

**REFERENCE:**

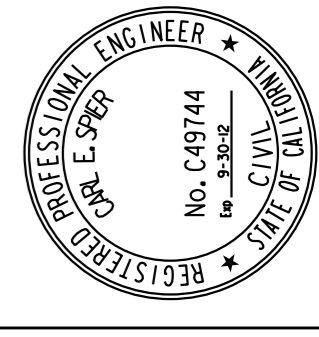
- WATER: 6622-W
- SEWER: 2446-D, 2447-D
- STORM DRAIN: N/A
- GAS: 9/557, 9/559
- ELECTRIC: 212-1752A, 212-1752B
- CABLE TV: 210-1752
- TELEPHONE: N/A
- IMPROVEMENTS:
- WATER FIELD BOOK: L19S
- SEWER FIELD BOOK: L19S-B
- 100' SCALE: L19S-B
- THOMAS BROS.: 1270-E4

**RETIREMENTS:**

- 531.47' - 6" VC SEWER, 1950
- 2 - 3"x4" MANHOLES, 1950
- 1 - 6" VC SEWER LATERALS, 1950



**CONTRACTOR'S NOTE:**  
 CONTRACTOR IS REQUIRED TO COORDINATE WORKING  
 HOURS LIMITATIONS AND CONSTRUCTION AROUND  
 SCHOOL AREA WITH SCHOOL DURING CONSTRUCTION.

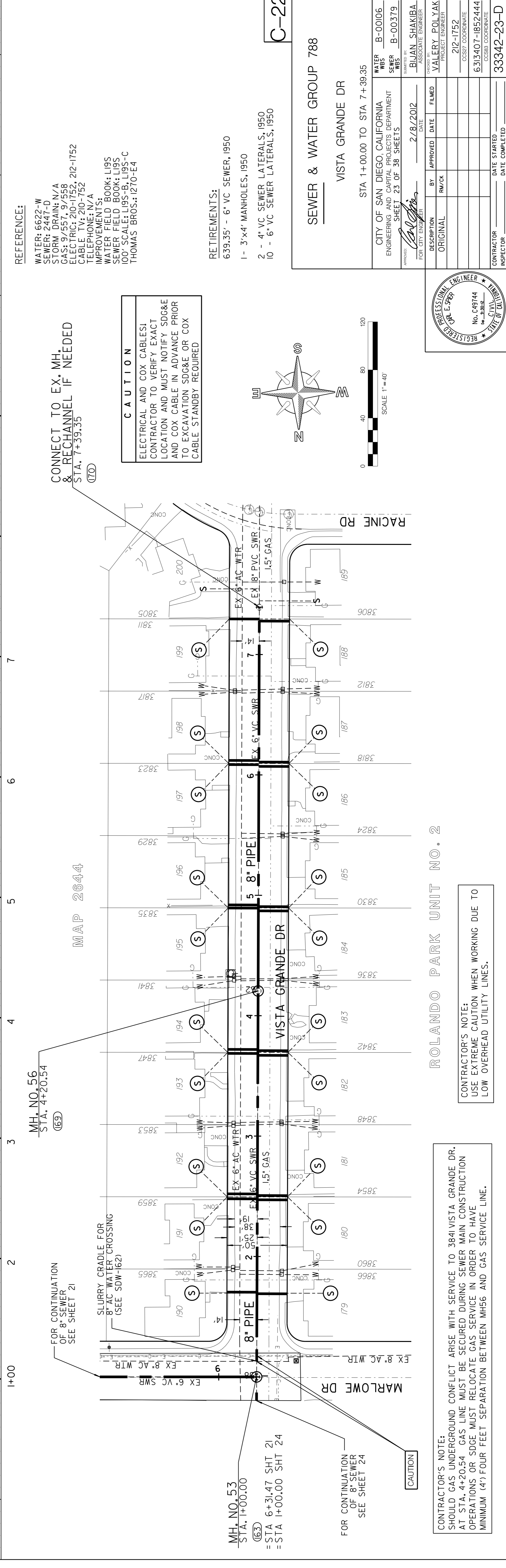
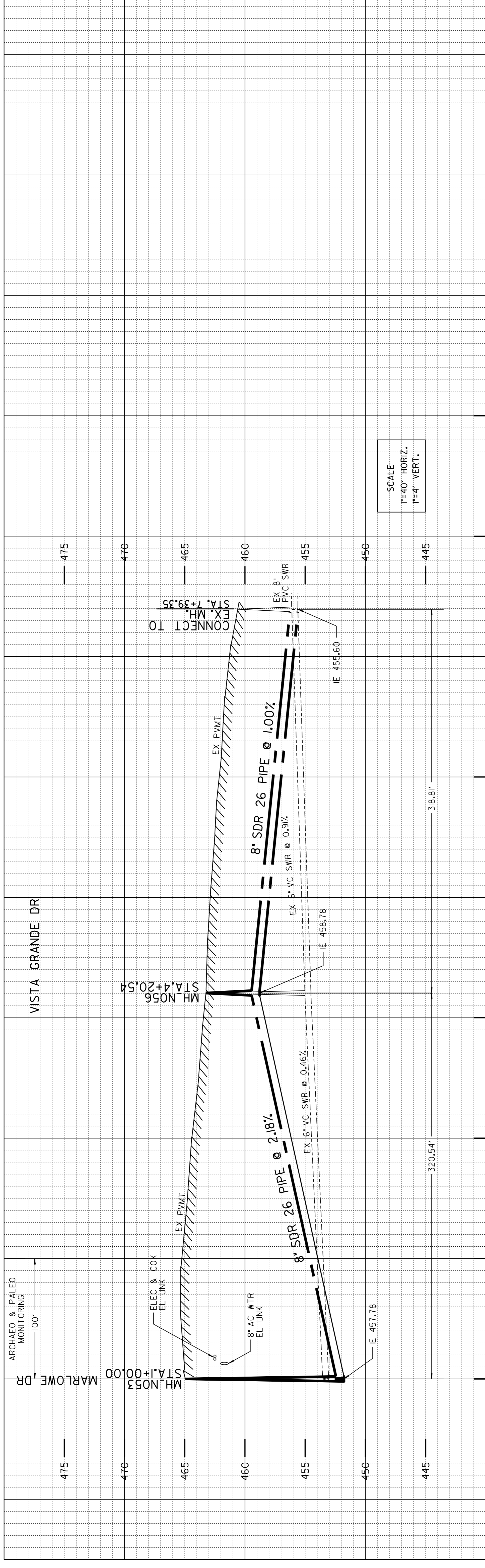


SEWER & WATER GROUP 788		MARLOWE DR	
STA 1+00.00 TO STA 6+31.47			
CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	WATER WBS B-00106	DATE	FILED
ENGINEER SHEET 21 OF 38 SHEETS	SEWER WBS B-00379	APPROVED	DATE
FOR CITY ENGINEER	ASSOCIATE ENGINEER	BY	DATE
		RM/CK	DATE
			DATE
			DATE
			DATE
CONTRACTOR	INSPECTOR	DATE STARTED	DATE COMPLETED

MARLOWE DR

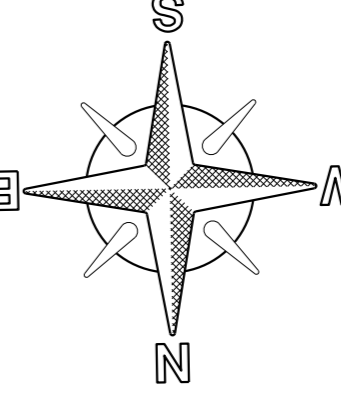






REFERENCE:  
 WATER: 6622-W  
 SEWER: 2447-D  
 STORM DRAIN: N/A  
 GAS: 9/557, 9/558  
 ELECTRIC: 20-1752, 212-1752  
 CABLE: TV: 210-1752  
 TELEPHONE: N/A  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L19S  
 SEWER FIELD BOOK: L19S  
 100' SCALE: L19S-B, L19S-C  
 THOMAS BROS.: I270-E4

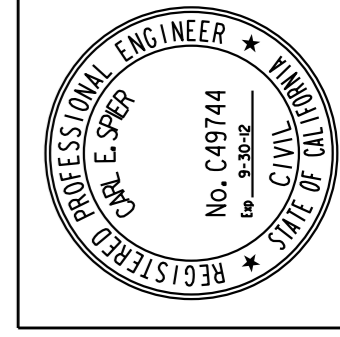
RETIREMENTS:  
 639.35' - 6" VC SEWER, 1950  
 1 - 3"x4" MANHOLES, 1950  
 2 - 4" VC SEWER LATERALS, 1950  
 10 - 6" VC SEWER LATERALS, 1950



**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED

CONNECT TO EX. MH.  
 & RECHANNEL IF NEEDED  
 STA. 7+39.35

SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.



ROLANDO PARK UNIT NO. 2

CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO  
 LOW OVERHEAD UTILITY LINES.

CONTRACTOR'S NOTE:  
 SHOULD GAS UNDERGROUND CONFLICT ARISE WITH SERVICE TO 3841 VISTA GRANDE DR.  
 AT STA. 4+20.54 GAS LINE MUST BE SECURED DURING SEWER MAIN CONSTRUCTION  
 OPERATIONS OR SDGE MUST RELOCATE GAS SERVICE IN ORDER TO HAVE  
 MINIMUM (4') FOUR FEET SEPARATION BETWEEN MH56 AND GAS SERVICE LINE.

**SEWER & WATER GROUP 788**  
 VISTA GRANDE DR  
 STA 1+00.00 TO STA 7+39.35

CITY OF SAN DIEGO CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 23 OF 38 SHEETS

DESIGNED BY: **BLIAN SHAKIRA**  
 ASSOCIATE ENGINEER

DATE: 2/8/2012

APPROVED BY: **Valery Polyak**  
 PROJECT ENGINEER

DATE: 2/8/2012

FILED: \_\_\_\_\_

WATER: B-00106  
 SEWER: B-00379

NO. C09744  
 CIVIL ENGINEER

DATE STARTED: \_\_\_\_\_  
 DATE COMPLETED: \_\_\_\_\_

33342-23-D

C-22

ARCHAEO & PALEO  
 MONITORING  
 100'

MAP 2644

CAUTION

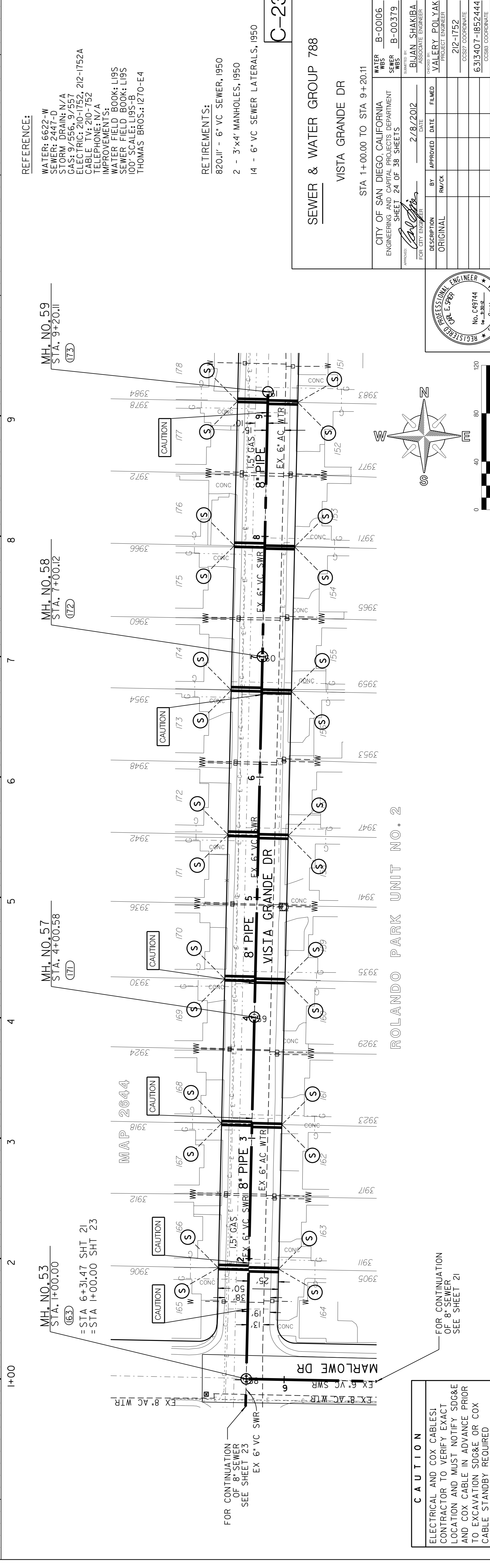
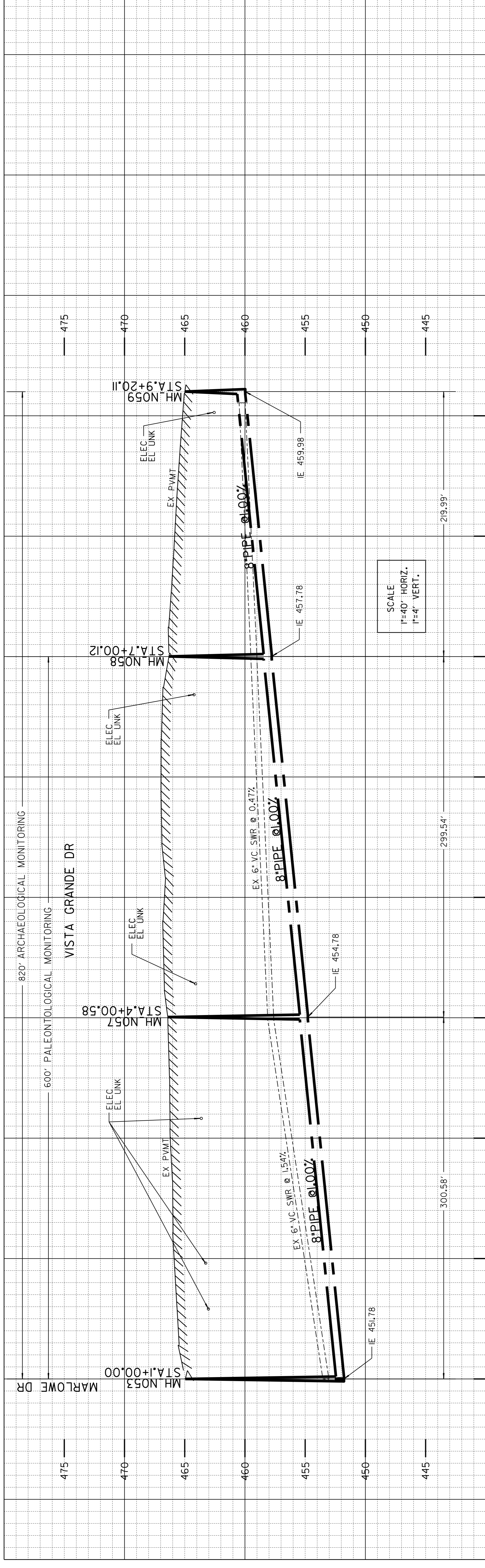
MH. NO. 53  
 STA. 1+00.00  
 = STA 6+31.47 SHT 21  
 = STA 1+00.00 SHT 24

FOR CONTINUATION  
 OF 8" SEWER  
 SEE SHEET 24

FOR CONTINUATION  
 OF 8" SEWER,  
 SEE SHEET 21

SLURRY CRADLE FOR  
 8" AC WATER CROSSING  
 (SEE SDW-162)





**REFERENCE:**

WATER: 6632-W  
SEWER: 2047-D  
CLOSURE DRAIN: N/A  
C/S: 9/556, 9/567  
ELECTRIC: 210-1752, 212-1752A  
TELEPHONE: 210-1752  
IMPROVEMENTS:  
WATER FIELD BOOK: L195  
SEWER FIELD BOOK: L195-B  
100' SCALE: L195-B  
THOMAS BROS.: 1270-E4

**RETIREMENTS:**

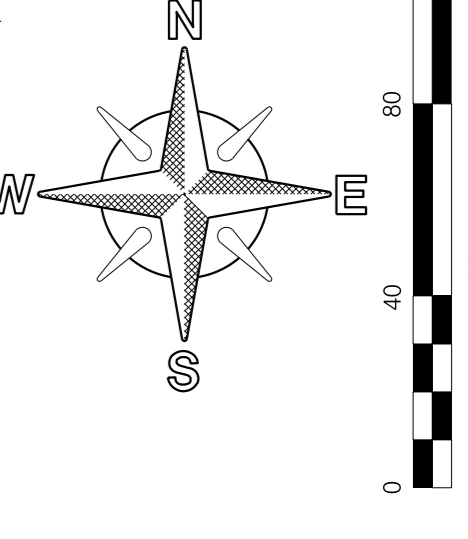
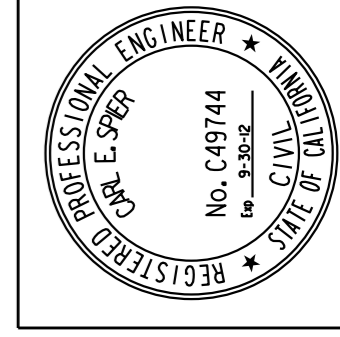
820.11' - 6" VC SEWER, 1950  
2 - 3"x4' MANHOLES, 1950  
14 - 6" VC SEWER LATERALS, 1950

C-23

**SEWER & WATER GROUP 788**  
VISTA GRANDE DR

STA 1+00.00 TO STA 9+20.11

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 24 OF 38 SHEETS	WATER WBS B-00106
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	SEWER WBS B-00379
DATE: 2/8/2012	DESIGNED BY: BLIAN SHAKIRA ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: APPROVED DATE FILMED
DATE: 2/8/2012	DATE: 2/8/2012
PROJECT ENGINEER: VALERY POLYAK	PROJECT ENGINEER: VALERY POLYAK
NO. 212-1752	NO. 212-1752
COORDINATE: 6313407-1852444	COORDINATE: 6313407-1852444
CONTRACTOR: _____	CONTRACTOR: _____
INSPECTOR: _____	INSPECTOR: _____
DATE STARTED: _____	DATE COMPLETED: _____
DATE COMPLETED: _____	DATE COMPLETED: _____



ROLANDO PARK UNIT NO. 2

**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SD&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SD&E OR COX  
CABLE STANDBY REQUIRED

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 21

FOR CONTINUATION  
OF 8" SEWER  
SEE SHEET 23

MH. NO. 53  
STA. 1+00.00  
= STA 6+31.47 SHT 21  
= STA 1+00.00 SHT 23

MH. NO. 57  
STA. 4+00.58

MH. NO. 58  
STA. 7+00.12

MH. NO. 59  
STA. 9+20.11

MAP 2644

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

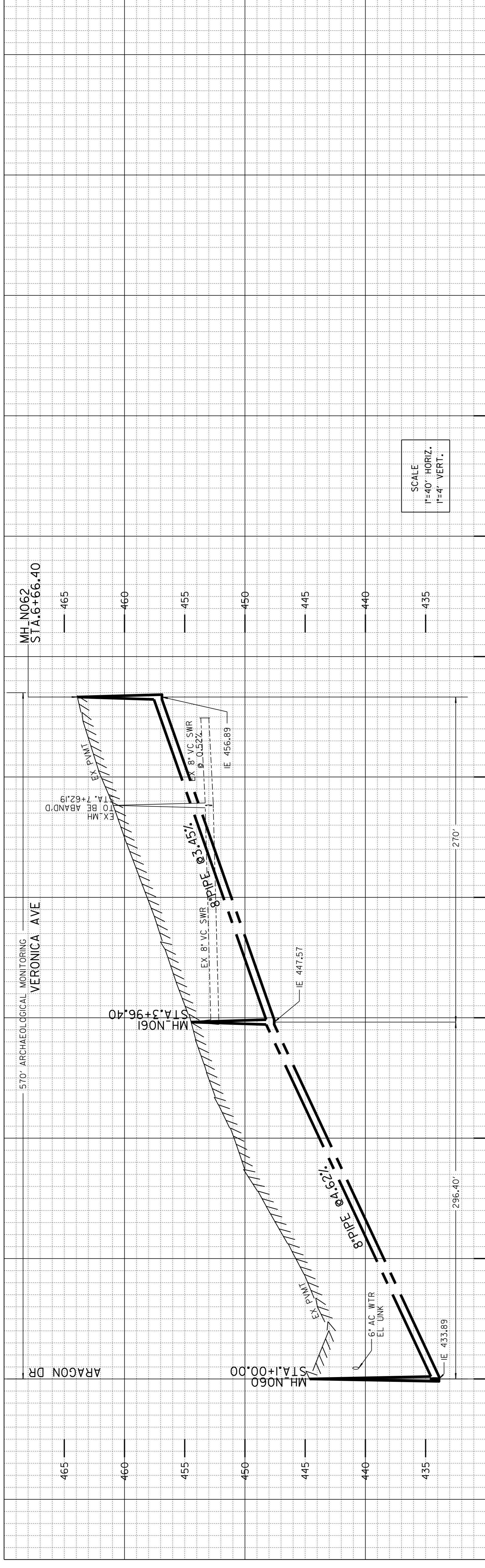
CAUTION

CAUTION

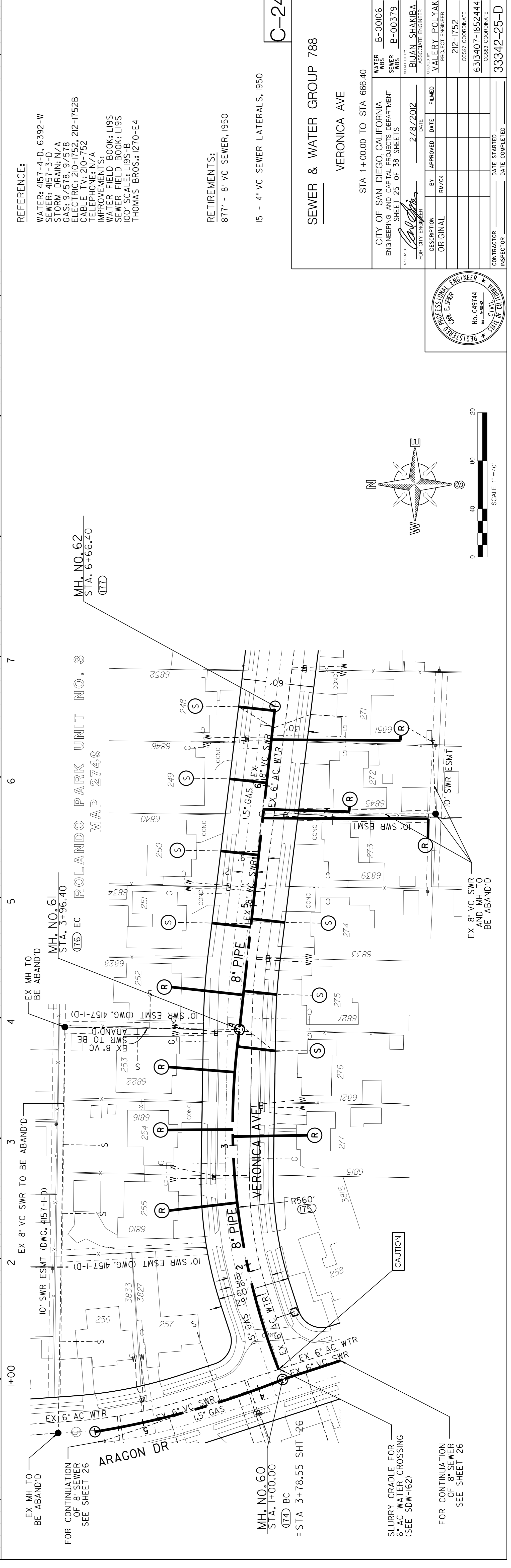
CAUTION

CAUTION

CAUTION



SCALE  
1"=40' HORIZ.  
1"=4' VERT.



**REFERENCE:**

WATER: 4157-4-D, 6392-W  
SEWER: 4157-3-D  
STORM DRAIN: N/A  
GAS: 9/578, 9/578  
ELECTRIC: 210-1752, 212-1752B  
CABLE TV: 210-752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L19S  
SEWER FIELD BOOK: L19S  
100' SCALE: L19S-B  
THOMAS BROS.: I270-E4

**RETIREMENTS:**

877' - 8" VC SEWER, 1950

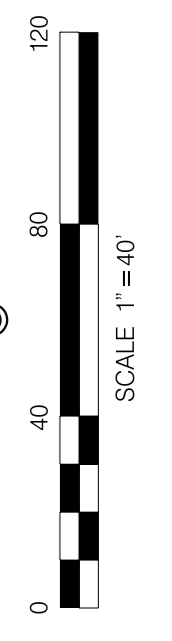
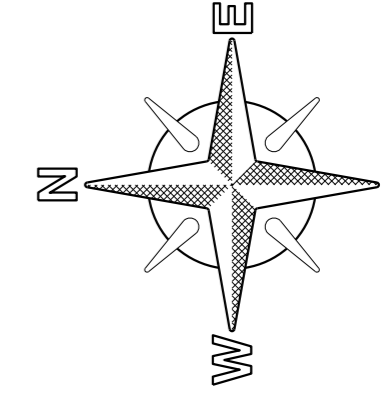
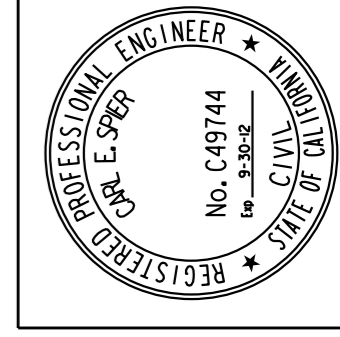
15 - 4" VC SEWER LATERALS, 1950

C-24

**SEWER & WATER GROUP 788**  
VERONICA AVE

STA 1+00.00 TO STA 666.40

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 25 OF 38 SHEETS	WATER WBS B-00106
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	SEWER WBS B-00379
DATE: 2/8/2012	DESIGNED BY: BLIAN SHAKIRA ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	VALUED BY: VALERY POLYAK PROJECT ENGINEER
BY: APPROVED DATE FILMED	212-1752
DATE	63342-25-D
DATE STARTED	33342-25-D
DATE COMPLETED	



EX. MH TO BE ABAND'D

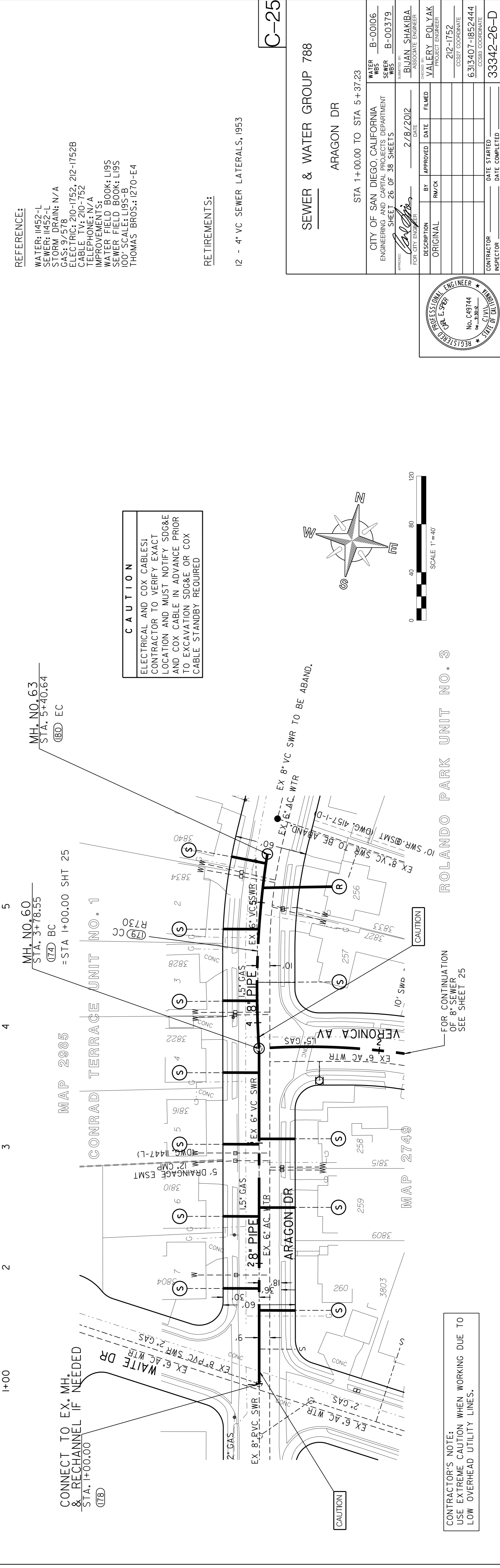
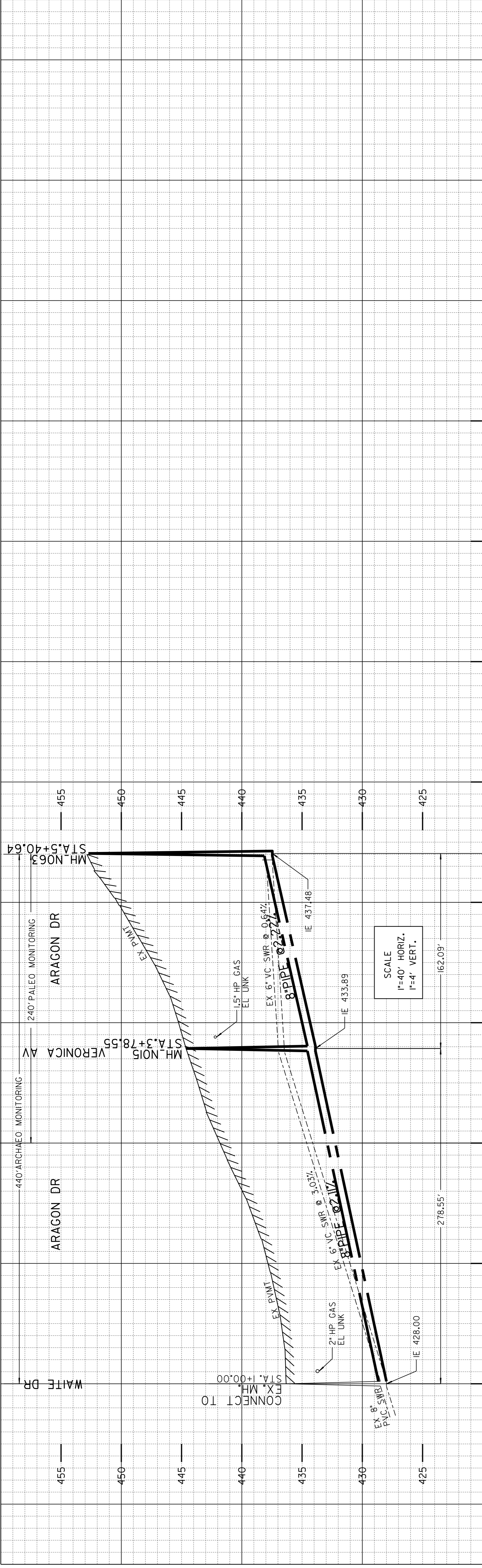
FOR CONTINUATION OF 8" SEWER SEE SHEET 26

SLURRY CRADLE FOR 6" AC WATER CROSSING (SEE SDW-162)

FOR CONTINUATION OF 8" SEWER SEE SHEET 26

CAUTION





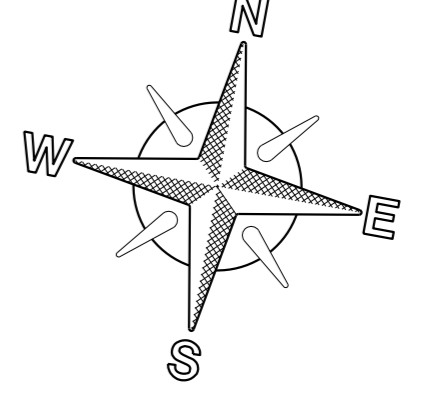
**REFERENCE:**

WATER: I452-L  
 SEWER: I452-L  
 STORM DRAIN: N/A  
 GAS: 9/578  
 ELECTRIC: 210-1752, 212-1752B  
 CABLE TV: 210-752  
 TELEPHONE: N/A  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L19S  
 SEWER FIELD BOOK: L19S  
 100' SCALE: L19S-B  
 THOMAS BROS.: 1270-E4

**RETIREMENTS:**

12 - 4" VC SEWER LATERALS, 1953

**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED



CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO  
 LOW OVERHEAD UTILITY LINES.

FOR CONTINUATION  
 OF 8" SEWER  
 SEE SHEET 25

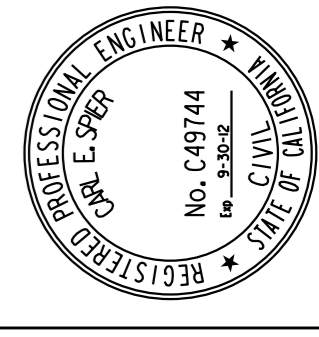
ROLANDO PARK UNIT NO. 3

C-25

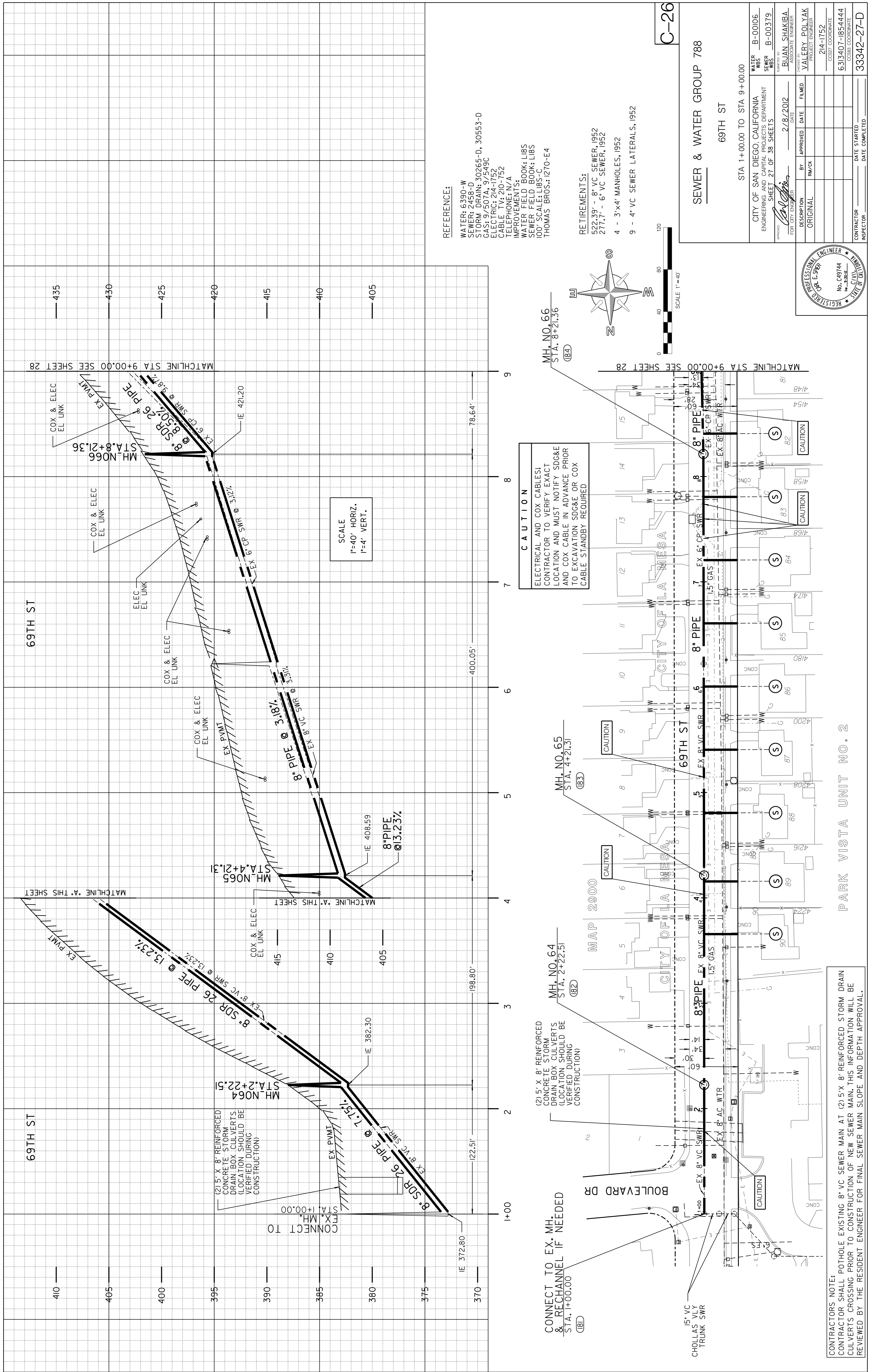
SEWER & WATER GROUP 788  
 ARAGON DR

STA 1+00.00 TO STA 5+37.23

APPROVED BY: <i>B. Shakira</i>	DATE: 2/8/2012	ASSOCIATE ENGINEER
FOR CITY ENGINEER		
DESCRIPTION: ORIGINAL	BY: RM/CK	APPROVED DATE: FILMED
CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	WATER WBS: B-00106	PROJECT ENGINEER
SEWER JBS: B-00379	212-1752	PROJECT ENGINEER
SHEET 26 OF 38 SHEETS	6313407-1852444	COORDINATOR
CONTRACTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____
INSPECTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____



ARAGON DR

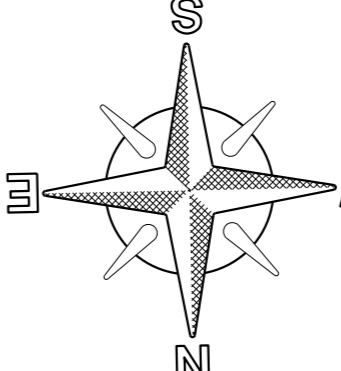


REFERENCE:

WATER: 6390-W  
SEWER: 2458-D  
STORM DRAIN: 30265-D, 30553-D  
GAS: 7507A, 97549C  
ELEC: 210-1752  
CABLE: 210-1752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L18S  
SEWER FIELD BOOK: L18S  
100' SCALE: L18S-C,  
THOMAS BROS.: L1270-E4

RETIREMENTS:

522.39' - 8" VC SEWER, 1952  
277.7' - 6" VC SEWER, 1952  
4 - 3'x4' MANHOLES, 1952  
9 - 4" VC SEWER LATERALS, 1952

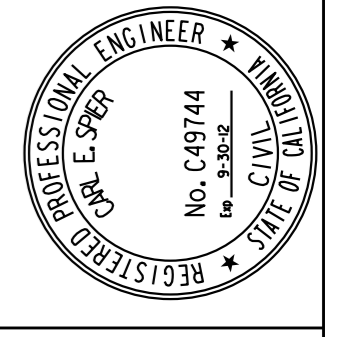


C-26

SEWER & WATER GROUP 788  
69TH ST

STA 1+00.00 TO STA 9+00.00

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 27 OF 38 SHEETS	WATER WBS: B-00106 SEWER WBS: B-00379
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 2/8/2012
DESCRIPTION: ORIGINAL	BY: APPROVED DATE FILMED
	RM/CK
	DATE
	DATE
	DATE
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____



**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

CONNECT TO EX. MH.  
& RECHANNEL IF NEEDED  
STA. 1+00.00 (181)

(2) 5' X 8' REINFORCED  
CONCRETE STORM  
DRAIN BOX CULVERTS  
(LOCATION SHOULD BE  
VERIFIED DURING  
CONSTRUCTION)

MH. NO. 64  
STA. 2+22.51 (182)

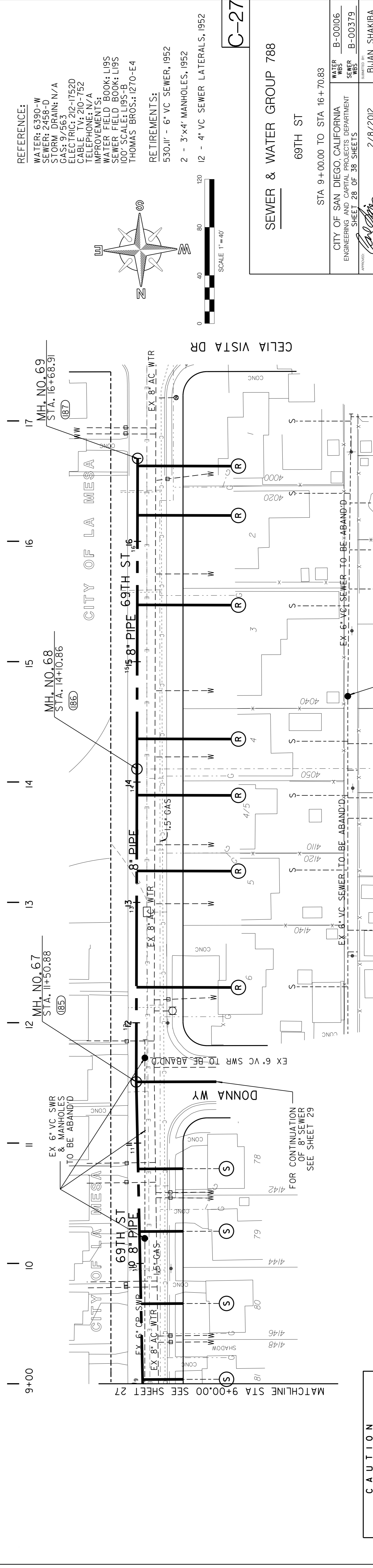
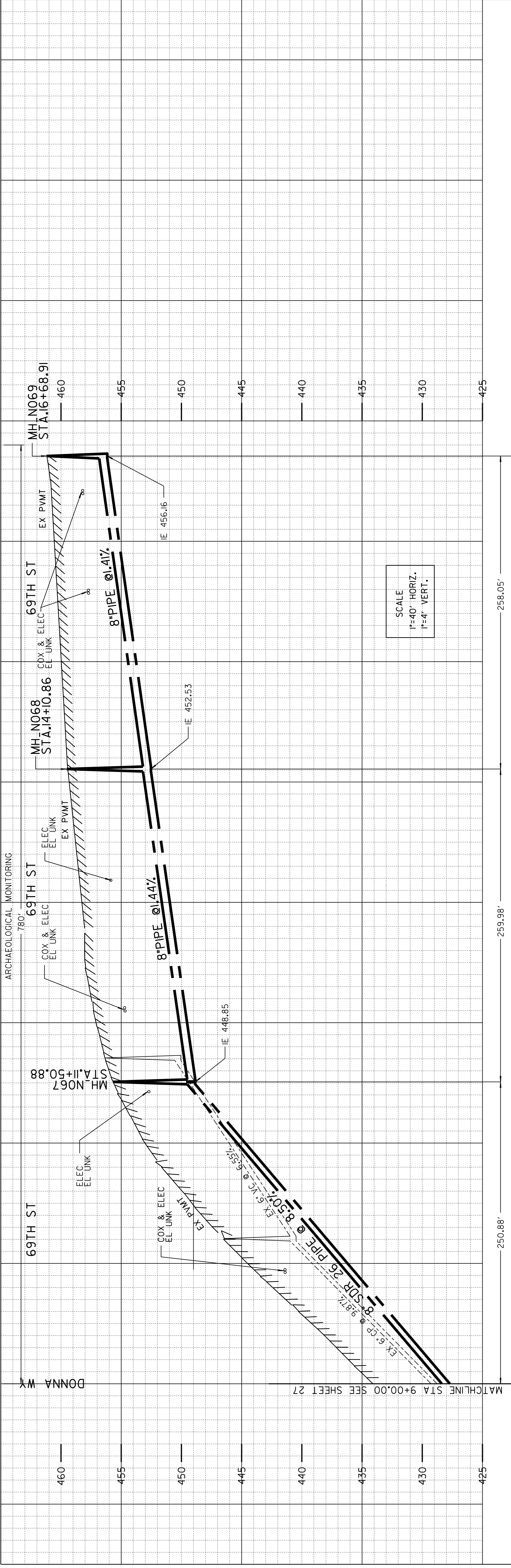
MH. NO. 65  
STA. 4+21.31 (183)

MH. NO. 66  
STA. 8+21.36 (184)

**CONTRACTORS NOTE:**  
CONTRACTOR SHALL POTHOLE EXISTING 8" VC SEWER MAIN AT (2) 5' X 8' REINFORCED STORM DRAIN  
CULVERTS CROSSING PRIOR TO CONSTRUCTION OF NEW SEWER MAIN. THIS INFORMATION WILL BE  
REVIEWED BY THE RESIDENT ENGINEER FOR FINAL SEWER MAIN SLOPE AND DEPTH APPROVAL.

PARK VISTA UNIT NO. 2





**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT  
LOCATION AND MUST NOTIFY SDG&E  
AND COX CABLE IN ADVANCE PRIOR  
TO EXCAVATION SDG&E OR COX  
CABLE STANDBY REQUIRED

**REGISTERED PROFESSIONAL ENGINEER**  
No. C49744  
EXPIRES 12/31/22  
CIVIL  
STATE OF CALIFORNIA

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	RM/CK			

FOR CITY ENGINEER: *Valery Polyak* DATE: 2/8/2012  
ASSOCIATE ENGINEER: *Bijan Shakira*

CONTRACTOR	DATE STARTED	DATE COMPLETED

**SEWER & WATER GROUP 788**  
69TH ST  
STA 9+00.00 TO STA 16+70.83

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 28 OF 38 SHEETS	WATER WBS B-00106
	SEWER WBS B-00379
DESIGNED BY: <i>Bijan Shakira</i>	ASSOCIATE ENGINEER
CHECKED BY: <i>Valery Polyak</i>	PROJECT ENGINEER
DATE: 2/8/2012	
CONTRACT NO. 6313407-1852444	COORDINATOR
PROJECT NO. 33342-28-D	

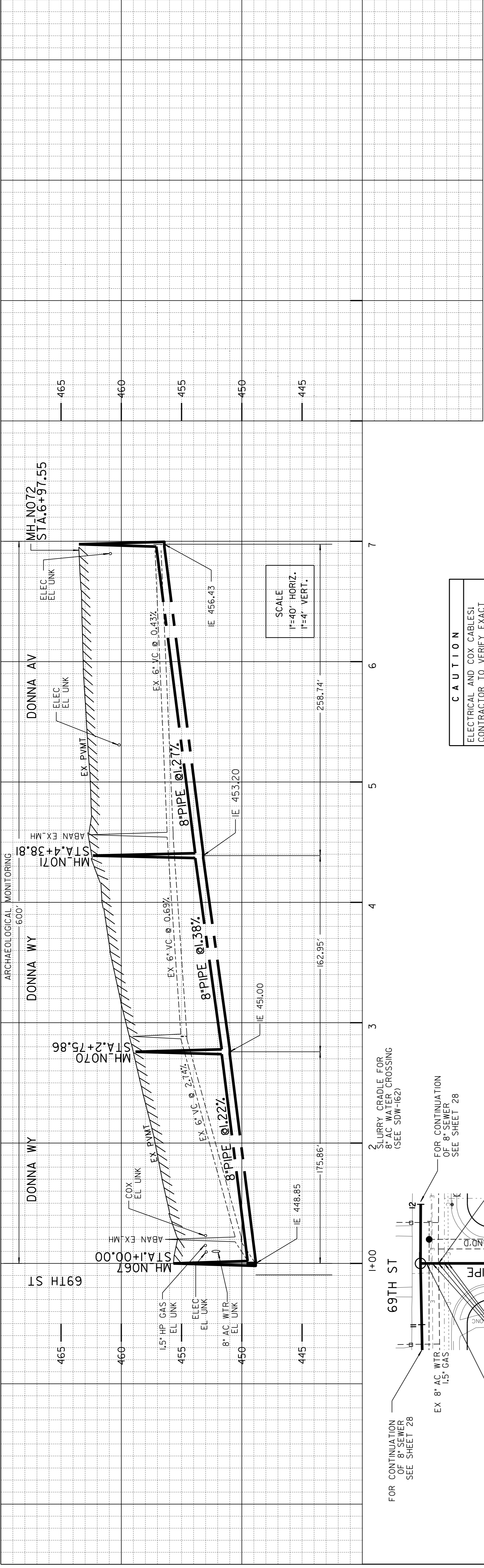
**REFERENCE:**  
WATER: 6390-W  
SEWER: 2458-D  
STORM DRAIN: N/A  
CAS: 9/563  
ELECTRIC: 212-17520  
TELEPHONE: 212-752  
TELEPHONE: N/A  
IMPROVEMENTS:  
WATER FIELD BOOK: L19S  
SEWER FIELD BOOK: L19S  
100' SCALES: L19S-B  
THOMAS BROS.: 1210-E4

**RETIREMENTS:**  
530.11' - 6" VC SEWER, 1952  
2 - 3'x4' MANHOLES, 1952  
12 - 4" VC SEWER LATERALS, 1952

SCALE 1"=40'  
0 40 80 120

N  
Z

**C-27**



**CAUTION**  
 ELECTRICAL AND COX CABLES!  
 CONTRACTOR TO VERIFY EXACT  
 LOCATION AND MUST NOTIFY SDG&E  
 AND COX CABLE IN ADVANCE PRIOR  
 TO EXCAVATION SDG&E OR COX  
 CABLE STANDBY REQUIRED

SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

REFERENCE:  
 WATER: 2456-D, 6390-W, 6622-W  
 SEWER: 2452-D, 2458-D  
 STORM DRAIN: N/A  
 GAS: 9/849B  
 ELECTRICAL: 2M4-1752  
 CABLE TV: 20-1752  
 TELEPHONE: N/A  
 IMPROVEMENTS:  
 WATER FIELD BOOK: L19S  
 SEWER FIELD BOOK: L19S  
 100' SCALE: L19S-B  
 THOMAS BROS.: 1270-E4

RETIREMENTS:  
 825.43' - 6" VC SEWER, 1952

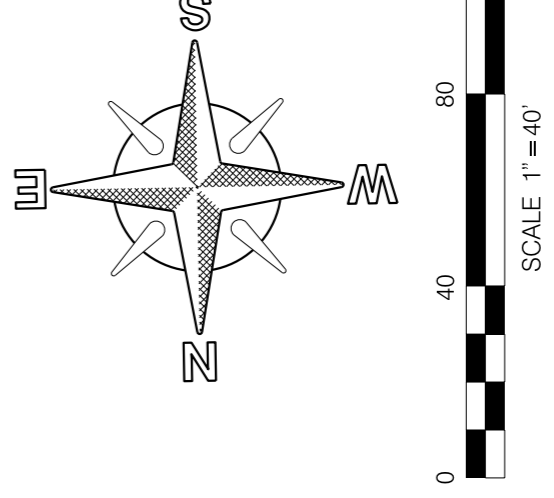
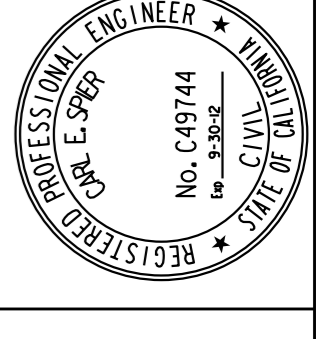
10 - 4" VC SEWER LATERALS, 1952

C-28

SEWER & WATER GROUP 788  
 DONNA WY TO DONNA AVE

STA 1+00.00 TO STA 6+92.55

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 29 OF 38 SHEETS	WATER WBS B-00106
APPROVED: <i>Valery Polyak</i> FOR CITY ENGINEER	SEWER WBS B-00379
DATE: 2/8/2012	DESIGNED BY: BILAN SHAKIRA ASSOCIATE ENGINEER
DATE: _____	VALUED BY: VALERY POLYAK PROJECT ENGINEER
DATE: _____	FILED
DATE: _____	212-1752
DATE: _____	633407-1852444
DATE: _____	33342-29-D



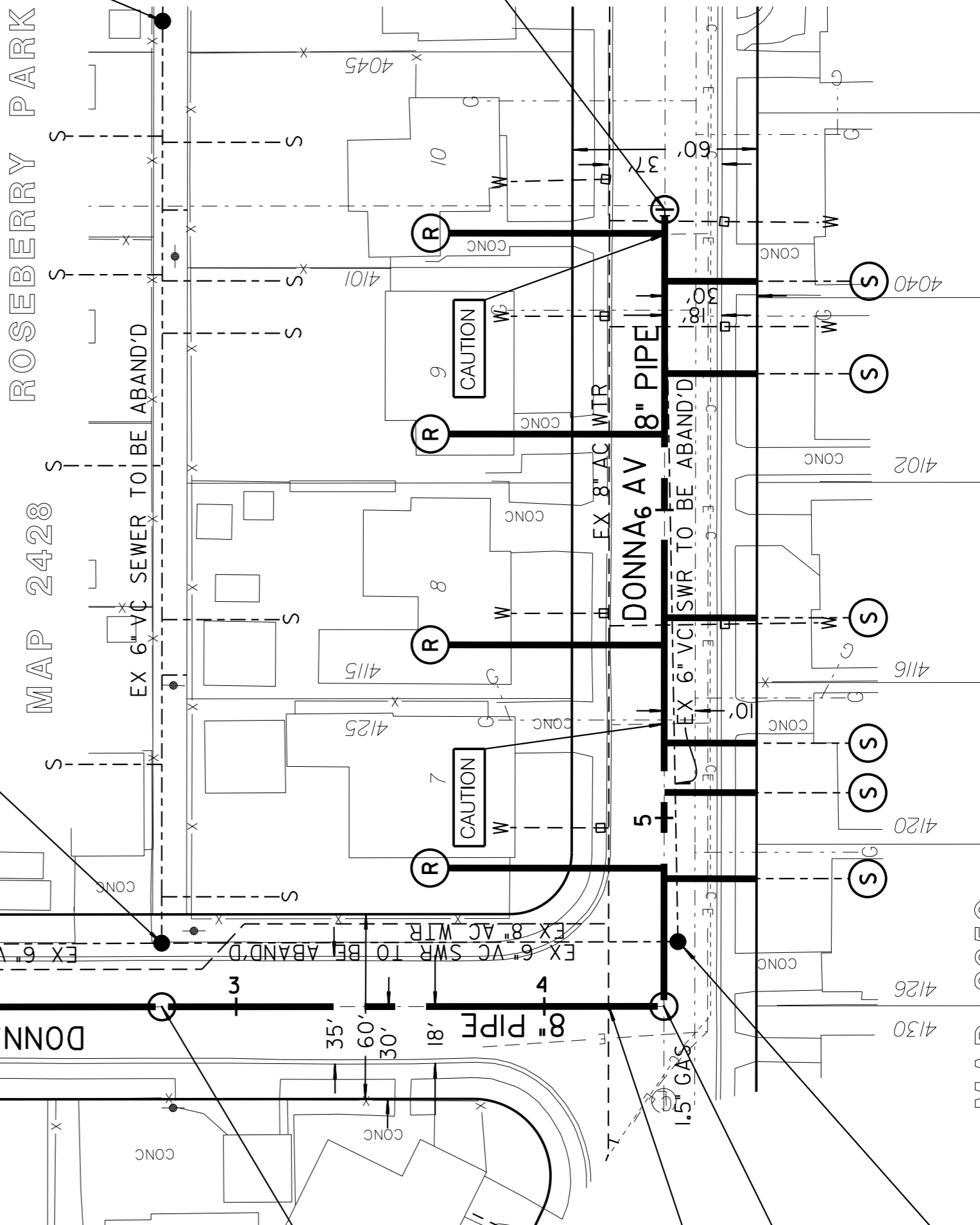
FOR CONTINUATION OF 8" SEWER SEE SHEET 28

MH. NO. 67  
 STA. 1+00.00  
 (85)

MH. NO. 70  
 STA. 2+75.86  
 (88)

MH. NO. 71  
 STA. 4+38.81  
 (83)

PARK VISTA UNIT NO. 1



MH. NO. 72  
 STA. 6+97.55  
 (90)

MAP 2850

ROSEBERRY PARK

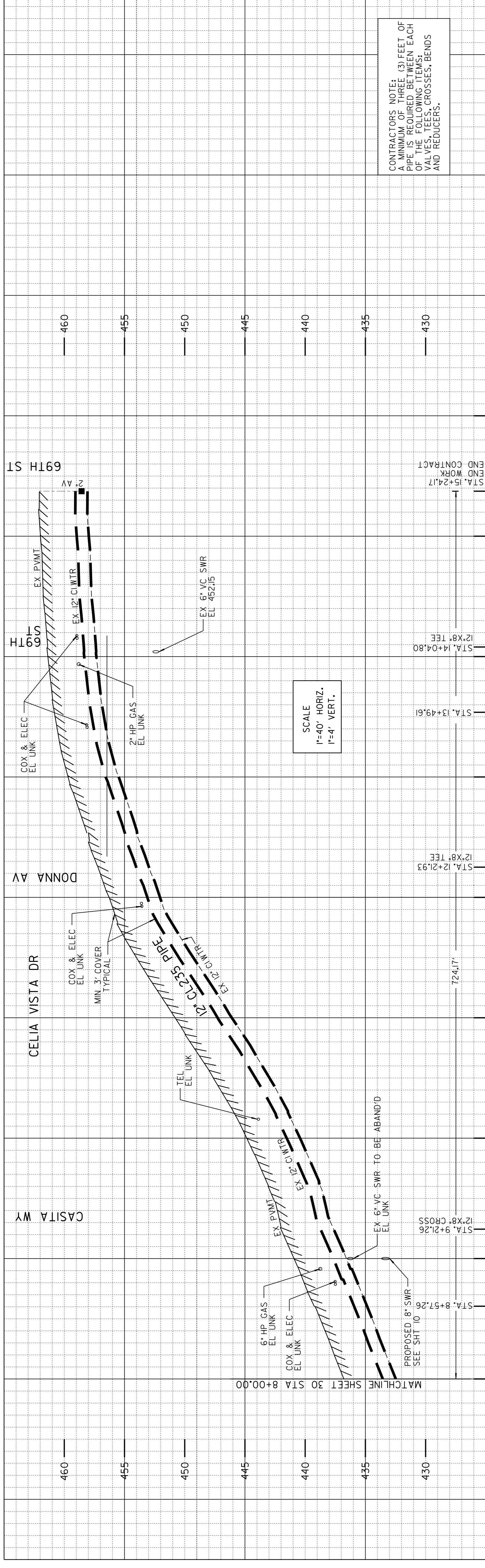
MAP 2428

MAP 2850

MAP 2850







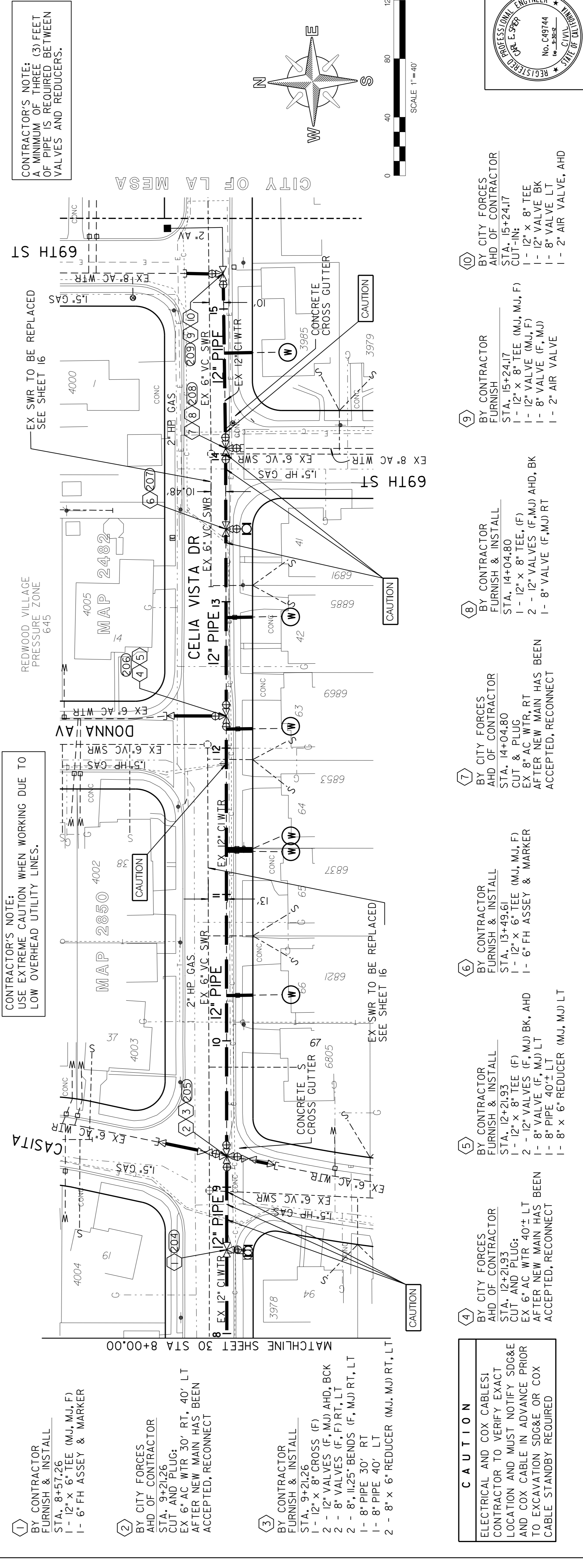
CONTRACTOR'S NOTE:  
A MINIMUM OF THREE (3) FEET OF PIPE IS REQUIRED BETWEEN EACH OF THE FOLLOWING ITEMS:  
VALVES, TEES, CROSSES, BENDS AND REDUCERS.

REFERENCE:  
WATER: 6390-W, 6392-W, 6622-W  
SEWER: 2447-D  
STORM DRAIN: N/A  
GAS: 9/548, 9/549, 9/563  
ELECTRIC: 212-1752  
CABLE TV: 210-752  
TELEPHONE: IB3001-1, IB3001-2, IB3001-3  
IMPROVEMENTS:  
WATER FIELD BOOK: L19S  
SEWER FIELD BOOK: L18S, L19S  
100' SCALE: L19S-B  
THOMAS BROS.: L270-E4  
RETIREMENTS:  
748.56' - 12" CI WATER - 1954  
2 - FH (2-PORT), 1954  
6 - 1" COPPER WATER SERVICES, 1954

NOTE: CONSTRUCTION & HIGHLIGHTING SHALL BE DONE IN PHASES.  
PHASE 1 - DONNA WY BTWN DONNA AV AND 69TH ST  
PHASE 2 - CELIA VISTA DR BTWN VISTA GRANDE DR AND 69TH ST

SEWER & WATER GROUP 788  
CELIA VISTA DR  
STA 8+00.00 TO STA 15+37.37

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT		WATER WBS B-00106	
SHEET 31 OF 38 SHEETS		SEWER WBS B-00379	
APPROVED BY: <i>[Signature]</i>	DATE: 2/8/2012	ASSOCIATE ENGINEER	
FOR CITY ENGINEER		BLIAN SHAKIRA	
DESCRIPTION: ORIGINAL	BY: RM/CK	APPROVED DATE: 2/8/2012	FILED
VALERY POLYAK	PROJECT ENGINEER		
212-1752	CS27 COORDINATOR		
6313407-1852444	CS88 COORDINATOR		
CONTRACTOR: _____	DATE STARTED: _____		
INSPECTOR: _____	DATE COMPLETED: _____		



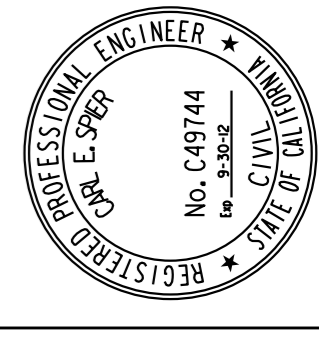
CONTRACTOR'S NOTE:  
SEWER TO BE REPLACED  
SEE SHEET 16

CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CONTRACTOR'S NOTE:  
A MINIMUM OF THREE (3) FEET OF PIPE IS REQUIRED BETWEEN VALVES AND REDUCERS.

- ① BY CONTRACTOR FURNISH & INSTALL  
STA. 8+57.26  
1 - 12" x 6" TEE (M, MJ, F)  
1 - 6" FH ASSEY & MARKER
- ② BY CITY FORCES AHD OF CONTRACTOR  
STA. 9+21.26  
EX 6" AC WTR 30' RT, 40' LT  
CUT AND PLUG:  
AFTER NEW MAIN HAS BEEN ACCEPTED, RECONNECT
- ③ BY CONTRACTOR FURNISH & INSTALL  
STA. 9+21.26  
1 - 12" x 8" CROSS (F)  
2 - 12" VALVES (F, MJ) AHD, BCK  
2 - 8" VALVES (F, F) RT, LT  
2 - 8" 1/25" BENDS (F, MJ) RT, LT  
1 - 8" PIPE 30' RT  
1 - 8" PIPE 40' LT  
2 - 8" x 6" REDUCER (MJ, MJ) LT
- ④ BY CITY FORCES AHD OF CONTRACTOR  
STA. 12+21.93  
CUT AND PLUG:  
EX 6" AC WTR 40± LT  
AFTER NEW MAIN HAS BEEN ACCEPTED, RECONNECT
- ⑤ BY CONTRACTOR FURNISH & INSTALL  
STA. 12+21.93  
1 - 12" x 6" TEE (F)  
2 - 12" VALVES (F, MJ) BK, AHD  
1 - 8" VALVE (F, MJ) LT  
1 - 8" PIPE 40± LT
- ⑥ BY CONTRACTOR FURNISH & INSTALL  
STA. 13+49.61  
1 - 12" x 6" TEE (M, MJ, F)  
1 - 6" FH ASSEY & MARKER  
AFTER NEW MAIN HAS BEEN ACCEPTED, RECONNECT
- ⑦ BY CITY FORCES AHD OF CONTRACTOR  
STA. 14+04.80  
CUT & PLUG  
EX 8" AC WTR, RT  
AFTER NEW MAIN HAS BEEN ACCEPTED, RECONNECT
- ⑧ BY CONTRACTOR FURNISH & INSTALL  
STA. 14+04.80  
1 - 12" x 8" TEE (F)  
2 - 12" VALVES (F, MJ) AHD, BK  
1 - 8" VALVE (F, MJ) RT
- ⑨ BY CONTRACTOR FURNISH  
STA. 15+24.17  
1 - 12" x 8" TEE (M, MJ, F)  
1 - 12" VALVE (MJ, F)  
1 - 8" VALVE (F, MJ)  
1 - 2" AIR VALVE
- ⑩ BY CITY FORCES AHD OF CONTRACTOR  
STA. 15+24.17  
CUT-IN:  
1 - 12" x 8" TEE  
1 - 12" VALVE (MJ, F)  
1 - 8" VALVE (F, MJ)  
1 - 2" AIR VALVE, AHD

**CAUTION**  
ELECTRICAL AND COX CABLES!  
CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SD&E AND COX CABLE IN ADVANCE PRIOR TO EXCAVATION SD&E OR COX CABLE STANDBY REQUIRED



CELIA VISTA DR



# WORK BY CITY FORCES

## LEGEND

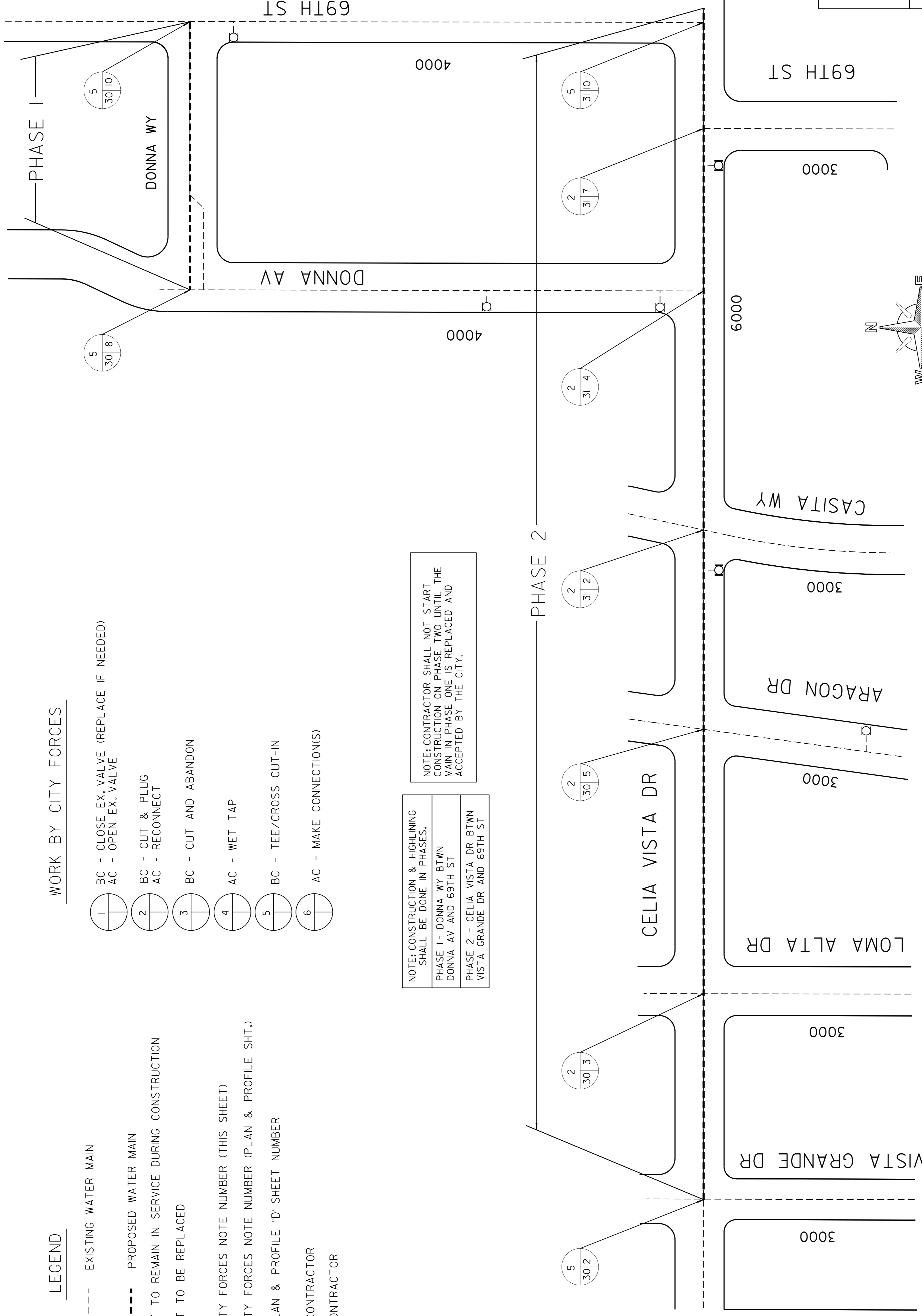
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- FIRE HYDRANT TO BE REPLACED
- CITY FORCES NOTE NUMBER (THIS SHEET)  
 CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)  
 PLAN & PROFILE "D" SHEET NUMBER
- BC --- BEFORE CONTRACTOR
- AC --- AFTER CONTRACTOR

## WORK BY CITY FORCES

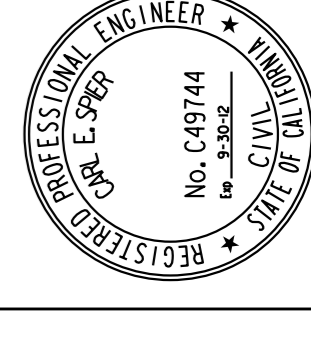
- BC - CLOSE EX. VALVE (REPLACE IF NEEDED)  
 AC - OPEN EX. VALVE
- BC - CUT & PLUG  
 AC - RECONNECT
- BC - CUT AND ABANDON
- AC - WET TAP
- BC - TEE/CROSS CUT-IN
- AC - MAKE CONNECTION(S)

NOTE: CONSTRUCTION & HIGHLINING SHALL BE DONE IN PHASES.  
 PHASE 1 - DONNA WY BTWN DONNA AV AND 69TH ST  
 PHASE 2 - CELIA VISTA DR BTWN VISTA GRANDE DR AND 69TH ST

NOTE: CONTRACTOR SHALL NOT START CONSTRUCTION ON PHASE TWO UNTIL THE MAIN IN PHASE ONE IS REPLACED AND ACCEPTED BY THE CITY.



NOTE:  
 NO STRUCTURE SHALL BE MORE THAN 1000' FROM A "LIVE" FIRE HYDRANT AT ANY TIME DURING CONSTRUCTION. THE DISTANCE SHALL BE MEASURED USING STREETS, PRIVATE ROADS OR OTHER ROUTES DRIVEN BY EMERGENCY VEHICLES.



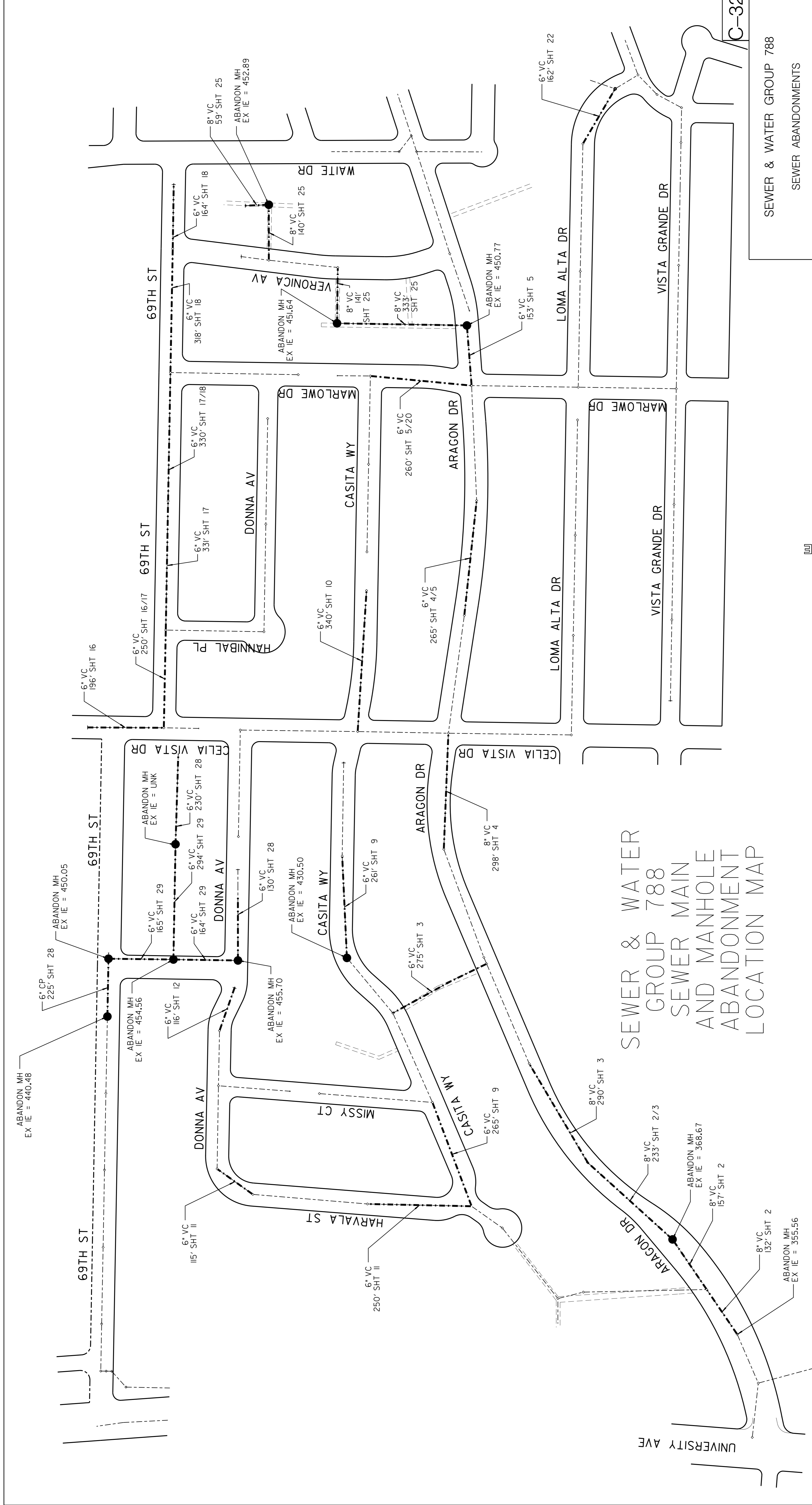
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	RM/CK			
CONTRACTOR			DATE STARTED	
INSPECTOR			DATE COMPLETED	

SEWER & WATER GROUP 788  
 CITY FORCES

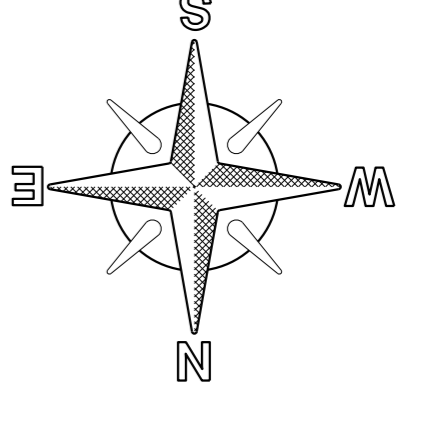
C-31

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 32 OF 38 SHEETS	WATER WBS B-00106
APPROVED BY: <i>Valery Polyak</i> FOR CITY ENGINEER	SEWER WBS B-00379
DATE: 2/8/2012	PROJECT ENGINEER
	ASSOCIATE ENGINEER
	PROJECT COORDINATOR
	SEE SHEETS
	SEE SHEETS
	SEE SHEETS
	33342-32-D

WORK BY CITY FORCES



SEWER & WATER  
GROUP 788  
SEWER MAIN  
AND MANHOLE  
ABANDONMENT  
LOCATION MAP



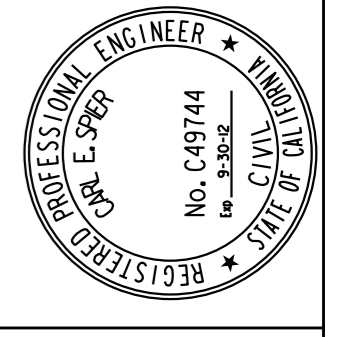
NO SCALE

- LEGEND**
- SEWER MAIN TO BE ABANDONED
  - EXISTING SEWER MAIN
  - MANHOLE TO BE ABANDONED

- 6" VC = 5,120'
- 6" CP = 146'
- 8" VC = 2,070'

SEWER & WATER GROUP 788  
SEWER ABANDONMENTS

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 33 OF 38 SHEETS	WATER WBS B-00106
APPROVED BY: <i>Valery Polyak</i> FOR CITY ENGINEER	SEWER WBS B-00379
DATE: 2/8/2012	DATE: 2/8/2012
BY: VALERY POLYAK PROJECT ENGINEER	BY: BLIAN SHAKIRA ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	DATE: _____
DATE: _____	DATE: _____
DATE: _____	DATE: _____
DATE: _____	DATE: _____
DATE: _____	DATE: _____
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____
	33342-33-D





C-33

SEWER & WATER GROUP 788  
CURB RAMP LOCATION

CITY OF SAN DIEGO CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SHEET 34 OF 38 SHEETS

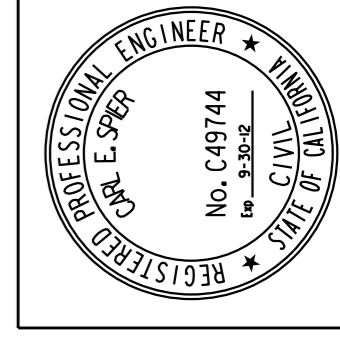
APPROVED BY: *[Signature]* DATE: 2/8/2012  
FOR CITY ENGINEER: BLIAN SHAKIRA  
ASSOCIATE ENGINEER

DESIGNER: VALERY POLYAK  
PROJECT ENGINEER

WATER WBS: B-00106  
SEWER WBS: B-00379

CONTRACTOR: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

33342-34-D



LEGEND

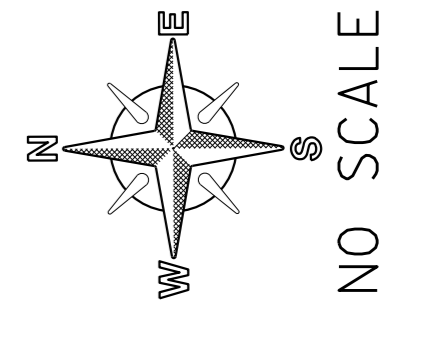
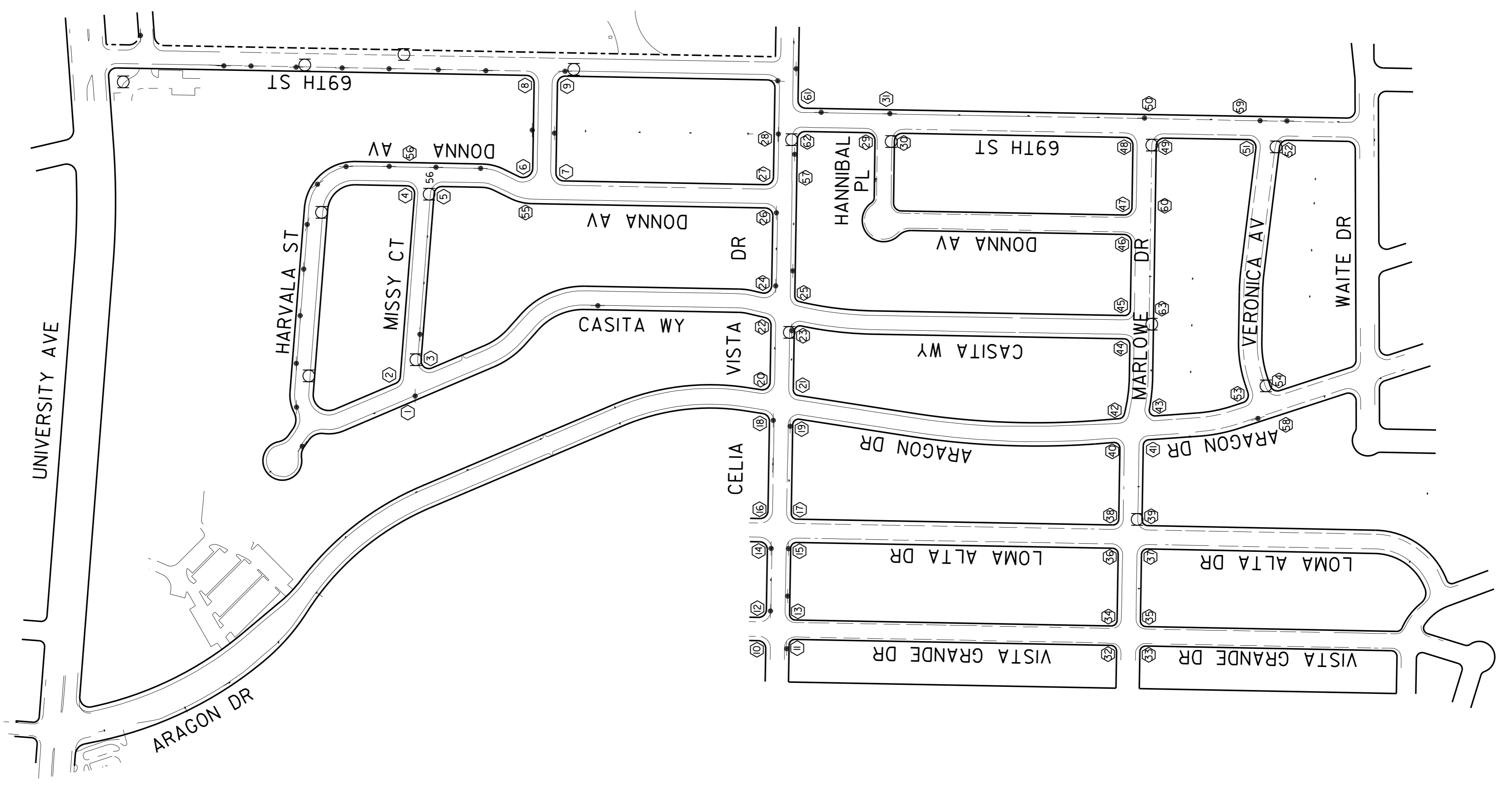
CURB RAMP NO'S  
 EX UTILITY POLE  
 EX FIRE HYDRANT  
 EX STREET LIGHT  
 EX TREE  
 EX STREET SIGN  
 EX CURB RAMP

PROPOSED CURB RAMP PER STANDARD DRAWINGS:  
 C1 & B  
 C2  
 D  
 TRUNCATED DOMES  
 CURB RAMP DETAILS  
 EX STAMP/IMPRESSION PLACEMENT  
 ISLAND REFUGE/PASSAGEWAY DETAILS

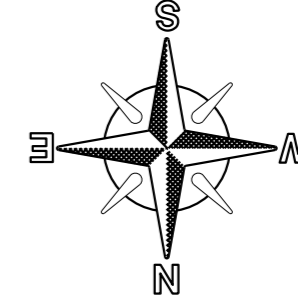
NOTE:  
CONTRACTOR TO NOTIFY SURVEYING 30 DAYS  
PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP  
CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

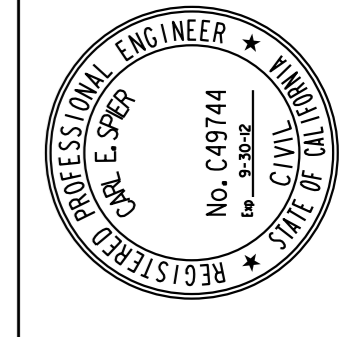
CURB RAMP NOTES TABLE		CURB RAMP NOTES TABLE			
LOCATION	RAMP TYPE	HISTORIC STAMPS	TRUNCATED DOME MATERIAL	CONSTRAINTS	COMMENTS / MODIFICATIONS
1	B		• STAINLESS STEEL		
2	C-1		• OTHER		
3	C-1				
4	C-1				
5	C-1				
6	C-1				
7	C-1				
8	C-1				
9	C-1				
10	C-1				
11	C-1				
12	C-1				
13	C-1				STOP SIGN
14	C-1				
15	C-1				
16	C-1				
17	C-1				
18	C-1				
19	C-1				
20	C-1				
21	C-1				
22	C-1				
23	C-1				
24	C-1				
25	C-1				
26	C-1				
27	C-1				
28	B				CRACKED RETAINING WALL
29	C-1				
30	C-1				
31	B				
32	C-1				
33	C-1				
34	C-1				
35	C-1				STREET SIGN
36	C-1				
37	C-1				
38	C-1				
39	C-1				
40	C-1				
41	C-1				
42	C-1				STOP SIGN
43	C-1				
44	C-1				
45	C-1				
46	C-1				
47	C-1				
48	C-1				
49	C-1				
50	B				
51	C-1				
52	C-1				
53	C-1				
54	C-1				
55	B				
56	B				
57	B				
58	B				
59	B				
60	B				
61	C-1				
62	C-1				
63	B				



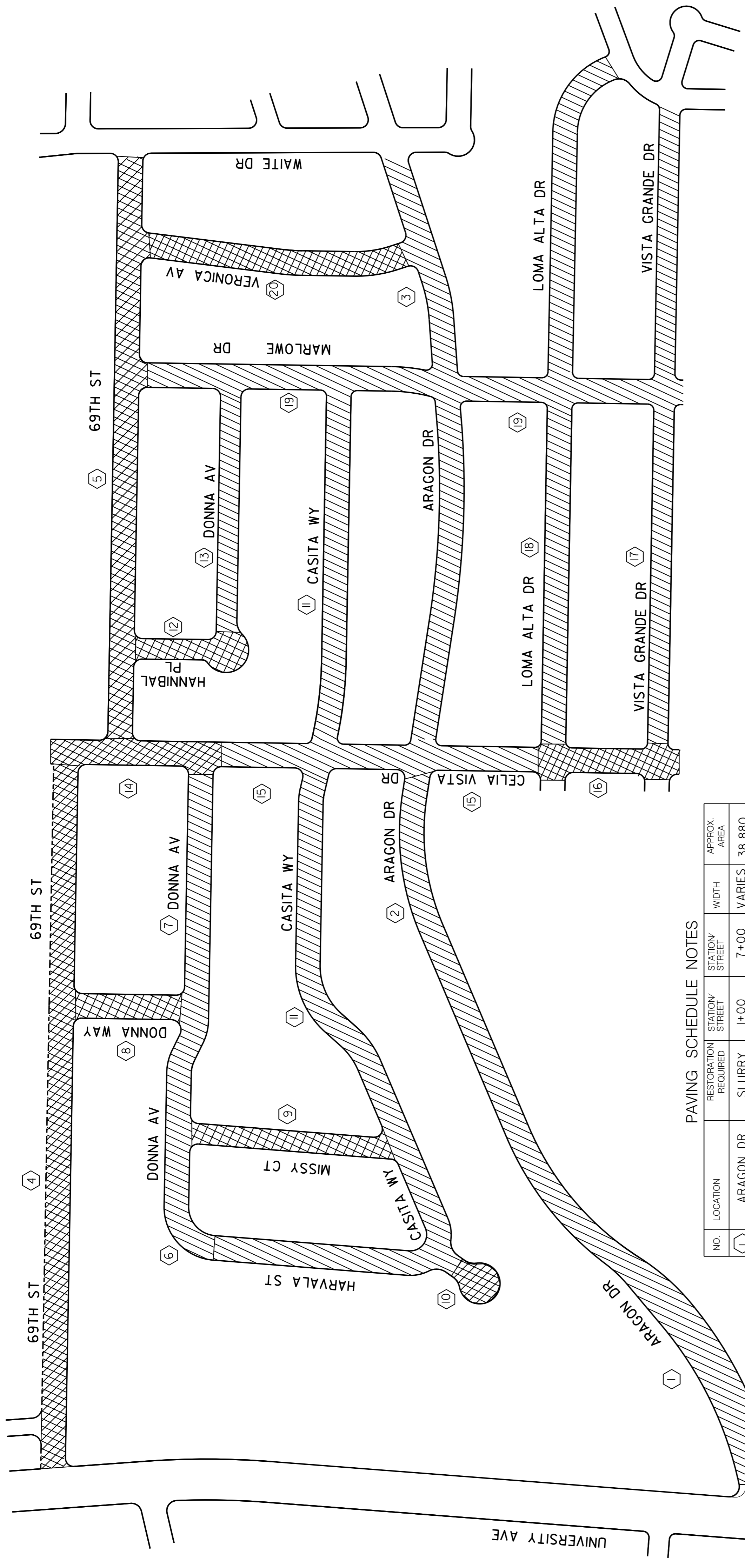
SEWER & WATER GROUP 788  
STREET RESURFACING



NO SCALE



CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 05 OF 38 SHEETS	WATER W.D. B-00106 SEWER W.D. B-00379
APPROVED FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 2/8/2012
DESCRIPTION: ORIGINAL	BY: APPROVED DATE: FILED
	RM/CK DATE
	DATE
	DATE
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED



PAVING SCHEDULE NOTES

NO.	LOCATION	RESTORATION REQUIRED	STATION STREET	STATION STREET	WIDTH	APPROX. AREA
1	ARAGON DR	SLURRY	1+00	7+00	VARIES	38,880
2	ARAGON DR	SLURRY	7+00	29+50	40'	90,000
3	ARAGON DR	SLURRY	1+00	160' N/O 5+37	40'	23,880
4	69TH ST	AC OVERLAY	BLVD	CELIA VISTA DR	36'	59,400
5	69TH ST	AC OVERLAY	CELIA VISTA DR	WAITE DR	38'	54,450
6	HARVALA ST/DONNA AV	SLURRY	1+00	12+60	36'	41,760
7	DONNA AV	SLURRY	12+60	CELIA VISTA DR	36'	22,320
8	DONNA WAY	AC OVERLAY	1+00	4+34	35'	11,690
9	MISSY CT	AC OVERLAY	CASITA WY	DONNA AV	32'	16,500
10	CASITA WAY	AC OVERLAY	HARVALA ST	CUL DE SAC	VARIES	5,650
11	CASITA WAY	SLURRY	HARVALA ST	MARLOWE DR	36'	80,425
12	HANNIBAL PL	AC OVERLAY	1+00	CUL DE SAC	VARIES	13,830
13	DONNA AV	SLURRY	3+75	MARLOWE DR	37'	22,940
14	CELIA VISTA DR	AC OVERLAY	69TH ST	DONNA AV	36'	13,400
15	CELIA VISTA DR	SLURRY	DONNA AV	LOMA ALTA DR	36'	26,500
16	CELIA VISTA DR	AC OVERLAY	LOMA ALTA DR	VISTA GRANDE DR	36'	13,200
17	VISTA GRANDE DR	SLURRY	CELIA VISTA DR	RACINE RD	38'	59,280
18	LOMA ALTA DR	SLURRY	CELIA VISTA DR	RACINE RD	38'	63,840
19	MARLOWE DR	SLURRY	69TH ST	VISTA GRANDE DR	38'	48,260
20	VERONICA AV	AC OVERLAY	ARAGON DR	69TH ST	36'	23,760
TOTAL AREA OF SLURRY SEAL						518,085 SF
TOTAL AREA OF AC OVERLAY						211,880 SF

**LEGEND**

- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-139

# ALIGNMENT REPORT

Horizontal Alignment Review Report  
Project: GJ788 Prop Swr  
Description: Proposed Sewer Alignment

Alignment Name: Sht 02-06 'Line A'  
Alignment Description: Aragon Dr & Marlowe Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 101 ) 1+00.00 1855400.74 6314271.26  
PI ( 102 ) 3+65.54 1855157.19 6314377.06  
Tangential Direction: S 23°28'54.97" E  
Tangential Length: 265.54

Element: Linear  
PI ( 102 ) 3+65.54 1855157.19 6314377.06  
PC ( 103 ) 5+39.78 1855018.28 6314482.24  
Tangential Direction: S 37°07'50.06" E  
Tangential Length: 174.24

Element: Circular  
PI ( 103 ) 5+39.78 1855018.28 6314482.24  
PC ( 104 ) 6+91.80 1854938.92 6314611.91  
CC ( 104 ) 1854080.03 6313908.05  
PCC ( 105 ) 8+41.91 1854827.37 6314715.19  
Radius: 1100.00  
Delta: 15°44'13.91" Right  
Degree of Curvature (Arc): 5'12'31.35"

Length: 302.13  
Tangent: 152.02  
Chord: 301.18  
Middle Ordinate: 10.36  
External: 10.46  
Tangent Direction: S 58°32'02.43" E  
Radial Direction: S 31°27'57.57" W  
Chord Direction: S 50°39'55.47" E  
Radial Direction: S 47°12'11.49" W  
Tangent Direction: S 42°47'48.51" E

Element: Circular  
PCC ( 105 ) 8+41.91 1854827.37 6314715.19  
PI ( ) 9+91.97 1854710.63 6314809.47  
CC ( 106 ) 1854190.61 6313926.70  
PT ( 107 ) 11+39.87 1854571.57 6314865.88  
Radius: 1013.51  
Delta: 16°50'38.65" Right  
Degree of Curvature (Arc): 5'39'11.63"

Length: 297.95  
Tangent: 150.06  
Chord: 296.88  
Middle Ordinate: 10.93  
External: 11.05  
Tangent Direction: S 38°55'23.60" E  
Radial Direction: S 51°04'36.40" W  
Chord Direction: S 30°30'04.28" E  
Radial Direction: S 67°35'15.05" W  
Tangent Direction: S 22°04'44.95" E

Element: Linear  
POB ( 107 ) 14+39.87 1854571.57 6314865.88  
PI ( 108 ) 14+40.13 1854295.44 6314983.80  
Tangential Direction: S 23°07'29.35" E  
Tangential Length: 300.26

Element: Linear  
POB ( 108 ) 14+40.13 1854295.44 6314983.80  
PI ( 109 ) 17+439.46 1854014.73 6315087.77  
Tangential Direction: S 20°19'25.57" E  
Tangential Length: 299.34

Element: Circular  
PC ( 109 ) 17+439.46 1854014.73 6315087.77  
PI ( ) 18+95.05 1853862.61 6315120.39  
CC ( 110 ) 1853687.28 6314493.47  
PT ( 111 ) 20+44.10 1853713.52 6315075.91  
Radius: 607.81  
Delta: 28°42'58.65" Right  
Degree of Curvature (Arc): 9°25'35.75"

Length: 304.63  
Tangent: 155.59  
Chord: 301.45  
Middle Ordinate: 18.99  
External: 19.60  
Tangent Direction: S 12°06'15.19" E  
Radial Direction: S 77°53'44.81" W  
Chord Direction: S 21°51'14.14" W  
Radial Direction: N 73°23'16.54" W  
Tangent Direction: S 16°36'43.46" W

Element: Linear  
POB ( 111 ) 20+44.10 1853713.52 6315075.91  
PI ( 112 ) 23+52.62 1853407.78 6315034.56  
Tangential Direction: S 7°42'09.11" W  
Tangential Length: 308.52

Element: Circular  
PC ( 112 ) 23+52.62 1853407.78 6315034.56  
PI ( ) 25+03.11 1853259.75 6315007.46  
CC ( 113 ) 1853042.80 6317028.37  
PT ( 114 ) 26+53.04 1853109.34 6315002.52  
Radius: 2026.94  
Delta: 8°29'31.75" Left  
Degree of Curvature (Arc): 2°49'36.18"

Length: 300.42  
Tangent: 150.49  
Chord: 300.15  
Middle Ordinate: 5.56  
External: 5.58  
Tangent Direction: S 10°22'24.48" W  
Radial Direction: N 79°37'35.52" W  
Chord Direction: S 6°07'38.61" W  
Radial Direction: N 88°07'07.26" W  
Tangent Direction: S 1°52'52.74" W

Element: Linear  
PI ( 114 ) 26+53.04 1853109.34 6315002.52  
PC ( 115 ) 29+51.68 1852810.99 6315015.60  
Tangential Direction: S 2°30'36.94" E  
Tangential Length: 298.63

Element: Circular  
PI ( 115 ) 29+51.68 1852810.99 6315015.60  
PC ( ) 30+85.55 1852776.27 6315144.90  
CC ( 116 ) 1853575.73 6315220.95  
PT ( 117 ) 32+16.92 1852785.99 6315278.42  
Radius: 791.83  
Delta: 19°11'33.38" Left  
Degree of Curvature (Arc): 7°14'09.23"

Length: 265.24  
Tangent: 133.87  
Chord: 264.00  
Middle Ordinate: 11.08  
External: 11.24  
Tangent Direction: S 74°58'09.85" E  
Radial Direction: S 15°01'50.15" W  
Chord Direction: S 84°33'56.55" E  
Radial Direction: S 4°09'43.24" E  
Tangent Direction: N 85°50'16.76" E

Element: Linear  
PI ( ) 32+16.92 1852785.99 6315278.42  
POE ( 118 ) 33+02.97 1852785.29 6315364.46  
Tangential Direction: S 89°31'52.86" E  
Tangential Length: 86.05

Alignment Name: Sht 06 'Line B'  
Alignment Description: Marlowe Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 119 ) 33+02.97 1852785.29 6315364.46  
PI ( 120 ) 4+26.55 1852782.62 6315465.78  
Tangential Direction: N 85°03'00.25" W  
Tangential Length: 326.55

Alignment Name: Sht 07  
Alignment Description: Easement East of Aragon Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 120 ) 4+26.55 1852782.62 6315465.78  
PI ( 121 ) 4+48.48 1855164.51 6314725.47  
Tangential Direction: N 86°47'50.97" E  
Tangential Length: 348.48

Element: Linear  
PI ( 121 ) 4+48.48 1855164.51 6314725.47  
PI ( 122 ) 5+16.67 1855181.25 6314791.57  
Tangential Direction: N 75°47'08.87" E  
Tangential Length: 68.19

Element: Linear  
PI ( 122 ) 5+16.67 1855181.25 6314791.57  
PI ( 123 ) 7+49.90 1854998.00 6314935.84  
Tangential Direction: S 36°12'46.44" E  
Tangential Length: 233.23

Element: Linear  
PI ( 123 ) 7+49.90 1854998.00 6314935.84  
POE ( 124 ) 8+58.79 1854935.07 6315024.71  
Tangential Direction: S 5°41'52.29" E  
Tangential Length: 108.89

Alignment Name: Sht 09-10 'Line A'  
Alignment Description: Casita Way  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 124 ) 1+00.00 1854935.07 6315024.71  
PI ( 125 ) 1+85.38 1854851.14 6315040.39  
Tangential Direction: S 10°35'07.74" E  
Tangential Length: 85.38

Element: Linear  
PI ( 125 ) 1+85.38 1854851.14 6315040.39  
PI ( 126 ) 3+80.32 1854672.00 6315117.26  
Tangential Direction: S 23°31'28.30" E  
Tangential Length: 194.94

Element: Linear  
PI ( 126 ) 3+80.32 1854672.00 6315117.26  
PI ( 127 ) 6+56.03 1854419.94 6315228.98  
Tangential Direction: S 23°54'12.74" E  
Tangential Length: 275.71

Element: Circular  
PI ( 127 ) 6+56.03 1854419.94 6315228.98  
PC ( 128 ) 7+76.01 1854334.82 6315331.54  
Tangential Direction: S 44°48'48.50" E  
Tangential Length: 119.98

Element: Circular  
PI ( 128 ) 7+76.01 1854334.82 6315331.54  
CC ( 129 ) 1854179.56 6315101.25  
PT ( 130 ) 8+74.78 1854246.14 6315355.70  
Radius: 263.01  
Delta: 21°31'03.39" Right  
Degree of Curvature (Arc): 21°47'04.70"

Length: 98.77  
Tangent: 49.98  
Chord: 98.19  
Middle Ordinate: 4.62  
External: 4.71  
Tangent Direction: S 36°10'54.63" E  
Radial Direction: S 53°49'05.37" W  
Chord Direction: S 25°25'02.94" E  
Radial Direction: S 75°20'08.75" W  
Tangent Direction: S 14°39'51.25" E

Element: Linear  
PI ( 130 ) 8+74.78 1854246.14 6315355.70  
PI ( 131 ) 10+88.43 1854032.53 6315351.60  
Tangential Direction: S 1°05'51.07" W  
Tangential Length: 213.65

Element: Linear  
PI ( 131 ) 10+88.43 1854032.53 6315351.60  
POE ( 132 ) 13+34.56 1853786.43 6315347.82  
Tangential Direction: S 0°52'48.84" W  
Tangential Length: 246.13

Alignment Name: Sht 10 'Line B'  
Alignment Description: Casita Way  
Alignment Style: Default  
Station Northing Easting

Element: Circular  
PC ( 133 ) 13+34.56 1853786.43 6315347.82  
PI ( ) 14+83.82 1853526.92 6315287.46  
CC ( 133 ) 1853337.69 6317988.41  
PT ( 135 ) 16+67.08 1853343.10 6315288.45  
Radius: 2700.06" Left  
Degree of Curvature (Arc): 2°07'19.44"

Length: 362.08  
Tangent: 183.82  
Chord: 366.79  
Middle Ordinate: 6.24  
External: 6.25  
Tangent Direction: S 72°8'51.77" W  
Radial Direction: N 82°31'08.23" W  
Chord Direction: S 3°35'10.48" W  
Radial Direction: S 89°41'29.20" W  
Tangent Direction: S 0°18'30.80" E

Alignment Name: Sht 11-12  
Alignment Description: Harvalla St & Donna Ave  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 124 ) 1+00.00 1854935.07 6315024.71  
PI ( 136 ) 1+86.58 1854948.37 6315110.26  
Tangential Direction: N 81°09'58.82" E  
Tangential Length: 86.58

Element: Linear  
PI ( 136 ) 1+86.58 1854948.37 6315110.26  
PI ( 137 ) 3+62.70 1854935.69 6315285.92  
Tangential Direction: S 85°52'16.73" E  
Tangential Length: 176.12

Element: Linear  
PI ( 137 ) 3+62.70 1854935.69 6315285.92  
PI ( 138 ) 6+86.08 1854909.41 6315608.24  
Tangential Direction: S 85°20'22.54" E  
Tangential Length: 323.39

Element: Linear  
PI ( 138 ) 6+86.08 1854909.41 6315608.24  
PI ( 139 ) 7+69.03 1854860.34 6315675.11  
Tangential Direction: S 53°43'41.88" E  
Tangential Length: 82.95

Element: Linear  
PI ( 139 ) 7+69.03 1854860.34 6315675.11  
PI ( 140 ) 10+00.62 1854628.76 6315672.89  
Tangential Direction: S 0°33'01.66" W  
Tangential Length: 231.58

Element: Linear  
PI ( 140 ) 10+00.62 1854628.76 6315672.89  
PC ( 141 ) 11+43.62 1854485.78 6315670.12  
Tangential Direction: S 1°06'24.05" W  
Tangential Length: 143.01

Element: Circular  
PI ( 141 ) 11+43.62 1854485.78 6315670.12  
PC ( ) 12+08.11 1854422.68 6315656.86  
CC ( 142 ) 1854590.71 6315170.94  
PT ( 143 ) 12+71.91 1854364.86 6315628.31  
Radius: 510.09  
Delta: 14°24'35.20" Right  
Degree of Curvature (Arc): 11°13'56.94"

Length: 128.29  
Tangent: 64.48  
Chord: 127.95  
Middle Ordinate: 4.03  
External: 4.06  
Tangent Direction: S 11°52'13.99" W  
Radial Direction: N 78°07'46.01" W  
Chord Direction: S 19°04'31.59" W  
Radial Direction: N 63°43'10.82" W  
Tangent Direction: S 26°16'49.18" W

Alignment Name: Sht 13 'Line A'  
Alignment Description: Missy Ct  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 126 ) 1+00.00 1854672.00 6315117.26  
POE ( 144 ) 4+02.38 1854648.52 6315418.73  
Tangential Direction: S 85°32'43.13" E  
Tangential Length: 302.38

Alignment Name: Sht 13 'Line B'  
Alignment Description: Missy Ct  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 145 ) 4+69.39 1854643.13 6315485.52  
POE ( 140 ) 6+57.30 1854628.76 6315672.89  
Tangential Direction: S 85°36'55.20" E  
Tangential Length: 187.91

Alignment Name: Sht 14 'Line A'  
Alignment Description: Donna Ave  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 146 ) 4+00.00 1853705.25 6315616.18  
POE ( 147 ) 3+86.35 1853991.55 6315621.27  
Tangential Direction: N 101°10'70" E  
Tangential Length: 286.35

Alignment Name: Sht 14 'Line B'-15  
Alignment Description: Celia Vista Dr & Loma Alta Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 111 ) 1+00.00 1853713.52 6315075.91  
PI ( 148 ) 4+19.33 1853717.92 6314756.61  
Tangential Direction: N 89°12'56.98" W  
Tangential Length: 319.33

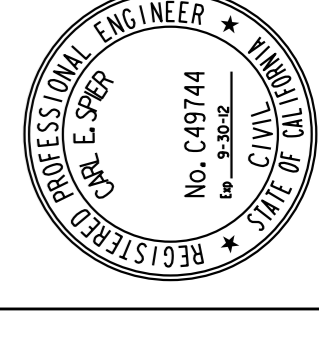
Element: Linear  
PI ( 148 ) 4+19.33 1853717.92 6314756.61  
PI ( 149 ) 6+77.74 1853459.56 6314751.61  
Tangential Direction: S 1°06'31.70" W  
Tangential Length: 258.41

Element: Linear  
PI ( 149 ) 6+77.74 1853459.56 6314751.61  
PI ( 150 ) 9+38.02 1853199.33 6314746.58  
Tangential Direction: S 1°09'32.87" W  
Tangential Length: 260.28

Element: Linear  
PI ( 150 ) 9+38.02 1853199.33 6314746.58  
POE ( 151 ) 12+37.30 1852900.10 6314740.48  
Tangential Direction: S 1°09'58.45" W  
Tangential Length: 299.29

Alignment Name: Sht 16-18  
Alignment Description: Celia Vista Dr & 69th St  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 111 ) 1+00.00 1853713.52 6315075.91  
PI ( 133 ) 3+35.02 1853709.17 6315311.39  
Tangential Direction: S 88°56'36.59" E  
Tangential Length: 235.52



C-35

SEWER & WATER GROUP 788

ALIGNMENT REPORT

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 36 OF 38 SHEETS	WATER WBS B-00106 SEWER WBS B-00379
APPROVED BY: <i>Brian Shakira</i> FOR CITY ENGINEER	DATE: 2/8/2012
DESIGNER: ORIGINAL	BY: APPROVED DATE FILMED
	RM/CK
	DATE
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____

33342-36-D



# ALIGNMENT REPORT

Element: Linear  
PI ( 133 ) 3+35.52 1853709.17 6.315311.39  
PI ( 146 ) 6+40.33 1853705.25 6.315616.18  
Tangential Direction: S 89°15'47.09" E  
Tangential Length: 304.82

Element: Linear  
PI ( 146 ) 6+40.33 1853705.25 6.315616.18  
PI ( 152 ) 8+32.66 1853701.25 6.315808.47  
Tangential Direction: S 88°48'29.42" E  
Tangential Length: 192.33

Element: Linear  
PI ( 152 ) 8+32.66 1853701.25 6.315808.47  
PI ( 153 ) 10+88.17 1853445.78 6.315803.92  
Tangential Direction: S 101°14.89" W  
Tangential Length: 255.51

Element: Linear  
PI ( 153 ) 10+88.17 1853445.78 6.315803.92  
PI ( 154 ) 14+12.96 1853121.05 6.315798.26  
Tangential Direction: S 0°59'52.39" W  
Tangential Length: 324.79

Element: Linear  
PI ( 154 ) 14+12.96 1853121.05 6.315798.26  
PI ( 119 ) 17+56.85 1852777.20 6.315792.28  
Tangential Direction: S 0°59'44.53" W  
Tangential Length: 343.90

Element: Linear  
PI ( 119 ) 17+56.85 1852777.20 6.315792.28  
PI ( 155 ) 20+78.46 1852455.65 6.315786.38  
Tangential Direction: S 0°03'06.73" W  
Tangential Length: 321.60

Element: Linear  
PI ( 155 ) 20+78.46 1852455.65 6.315786.38  
POE ( 156 ) 22+65.36 1852268.79 6.315782.55  
Tangential Direction: S 1°10'27.98" W  
Tangential Length: 186.91

Alignment Name: Sht 19  
Alignment Description: Hannibal Pl & Donna Ave  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 155 ) 1+00.00 1853445.78 6.315803.92  
PI ( 157 ) 3+49.24 1853450.06 6.315554.72  
Tangential Direction: N 89°01'01.68" W  
Tangential Length: 249.24

Element: Linear  
PI ( 157 ) 3+49.24 1853450.06 6.315554.72  
PI ( 158 ) 6+28.52 1853170.82 6.315549.86  
Tangential Direction: S 0°59'47.27" W  
Tangential Length: 279.28

Element: Linear  
PI ( 158 ) 6+28.52 1853170.82 6.315549.86  
POE ( 159 ) 9+39.50 1852859.89 6.315544.51  
Tangential Direction: S 0°59'09.21" W  
Tangential Length: 310.98

Alignment Name: Sht 20  
Alignment Description: Casita Way  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 117 ) 1+00.00 1852785.99 6.315278.42  
PI ( 160 ) 3+29.12 1853015.06 6.315283.01  
Tangential Direction: N 1°08'54.66" E  
Tangential Length: 229.12

Element: Linear  
PI ( 160 ) 3+29.12 1853015.06 6.315283.01  
POE ( 161 ) 5+56.79 1853242.69 6.315287.33  
Tangential Direction: N 1°05'10.62" E  
Tangential Length: 227.67

Alignment Name: Sht 21  
Alignment Description: Marlowe Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 115 ) 1+00.00 1852810.99 6.315015.60  
PI ( 162 ) 3+76.93 1852815.10 6.314738.70  
Tangential Direction: N 89°09'00.59" W  
Tangential Length: 276.93

Element: Linear  
POE ( 162 ) 3+76.93 1852815.10 6.314738.70  
PI ( 163 ) 6+31.47 1852819.08 6.314484.19  
Tangential Direction: N 89°06'17.65" W  
Tangential Length: 254.54

Alignment Name: Sht 22  
Alignment Description: Lomito Alto Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 162 ) 1+00.00 1852815.10 6.314738.70  
PI ( 164 ) 4+00.88 1852514.27 6.314733.49  
Tangential Direction: S 0°59'33.53" W  
Tangential Length: 300.88

Element: Linear  
PI ( 164 ) 4+00.88 1852514.27 6.314733.49  
PC ( 165 ) 7+32.05 1852183.16 6.314726.67  
Tangential Direction: S 1°10'49.99" W  
Tangential Length: 331.17

Element: Circular  
PC ( 165 ) 7+32.05 1852183.16 6.314726.67  
PI ( ) 8+22.05 1852093.89 6.314715.29  
CC ( 166 ) 1852209.79 6.314517.73  
PT ( 167 ) 9+02.15 1852040.40 6.314642.92  
Radius: 210.63  
Delta: 46°16'16.63" Right

Degree of Curvature (Arc): 27°12'06.27"  
Length: 170.10  
Tangent: 90.00  
Chord: 165.52  
Middle Ordinate: 16.94  
External: 18.42

Tangent Direction: S 7°15'41.67" W  
Radial Direction: N 82°44'18.33" W  
Chord Direction: S 30°23'43.89" W  
Radial Direction: N 36°28'01.89" W  
Tangent Direction: N 33°31'58.31" W

Element: Linear  
PI ( 167 ) 9+02.15 1852040.40 6.314642.92  
POE ( 168 ) 9+71.50 1852004.50 6.314583.58  
Tangential Direction: S 1°28'49.33" W  
Tangential Length: 69.35

Alignment Name: Sht 23  
Alignment Description: Vista Grande Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 163 ) 1+00.00 1852819.08 6.314484.19  
PI ( 169 ) 4+20.54 1852498.60 6.314477.94  
Tangential Direction: S 1°07'00.54" W  
Tangential Length: 320.54

Element: Linear  
PI ( 169 ) 4+20.54 1852498.60 6.314477.94  
POE ( 170 ) 7+49.35 1852179.85 6.314471.95  
Tangential Direction: S 1°04'57.50" W  
Tangential Length: 318.81

Alignment Name: Sht 24  
Alignment Description: Vista Grande Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 163 ) 1+00.00 1852819.08 6.314484.19  
PI ( 171 ) 4+00.58 1853119.60 6.314490.02  
Tangential Direction: N 1°06'37.07" E  
Tangential Length: 300.58

Element: Linear  
PI ( 171 ) 4+00.58 1853119.60 6.314490.02  
PI ( 172 ) 7+00.12 1853419.08 6.314495.73  
Tangential Direction: N 1°05'33.18" E  
Tangential Length: 299.54

Element: Linear  
PI ( 172 ) 7+00.12 1853419.08 6.314495.73  
POE ( 173 ) 9+20.11 1853639.04 6.314499.59  
Tangential Direction: N 1°00'17.65" E  
Tangential Length: 219.99

Alignment Name: Sht 25  
Alignment Description: Veronica Ave  
Alignment Style: Default  
Station Northing Easting

Element: Circular  
PC ( 174 ) 1+00.00 1852468.48 6.315072.27  
PI ( ) 2+51.76 1852525.78 6.315212.80  
CC ( 175 ) 1851949.93 6.315283.71  
PT ( 176 ) 3+96.40 1852504.29 6.315363.03  
Radius: 560.00

Degree of Curvature (Arc): 101°13'53.00"  
Length: 296.40  
Tangent: 151.76  
Chord: 292.95  
Middle Ordinate: 19.50  
External: 20.20

Tangent Direction: N 67°49'01.15" E  
Radial Direction: S 22°10'58.85" E  
Chord Direction: N 82°58'47.51" E  
Radial Direction: S 8°08'33.87" W  
Tangent Direction: S 81°51'26.13" E

Element: Linear  
PI ( 176 ) 3+96.40 1852504.29 6.315363.03  
POE ( 177 ) 6+66.40 1852474.75 6.315631.41  
Tangential Direction: S 83°43'11.80" E  
Tangential Length: 270.00

Alignment Name: Sht 26  
Alignment Description: Aragon Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 178 ) 1+00.00 1852203.60 6.315158.45  
PC ( 174 ) 3+78.55 1852468.48 6.315072.27  
Tangential Direction: N 18°01'21.08" W  
Tangential Length: 278.55

Element: Circular  
PC ( 174 ) 3+78.55 1852468.48 6.315072.27  
PI ( ) 4+59.93 1852543.97 6.315041.89  
CC ( 179 ) 1852740.91 6.315749.08  
PT ( 180 ) 5+40.64 1852624.30 6.315028.88  
Radius: 729.58  
Delta: 124°33'43.39" Right

Degree of Curvature (Arc): 75°11'11.72"  
Length: 162.08  
Tangent: 81.38  
Chord: 161.75  
Middle Ordinate: 4.50  
External: 4.52

Tangent Direction: N 21°55'30.65" W  
Radial Direction: N 68°04'29.35" E  
Chord Direction: N 15°33'38.95" W  
Radial Direction: N 80°48'12.72" E  
Tangent Direction: N 91°14'47.26" W

Alignment Name: Sht 27-28  
Alignment Description: 69th St  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 181 ) 1+00.00 1855369.55 6.315978.47  
PI ( 182 ) 2+22.51 1855247.05 6.315976.17  
Tangential Direction: S 1°04'23.99" W  
Tangential Length: 122.51

Element: Linear  
PI ( 182 ) 2+22.51 1855247.05 6.315976.17  
PI ( 183 ) 4+21.31 1855048.29 6.315972.36  
Tangential Direction: S 0°05'57.95" W  
Tangential Length: 198.80

Element: Linear  
PI ( 183 ) 4+21.31 1855048.29 6.315972.36  
PI ( 184 ) 8+21.36 1854648.31 6.315965.13  
Tangential Direction: S 1°02'06.36" W  
Tangential Length: 400.05

Element: Linear  
PI ( 184 ) 8+21.36 1854648.31 6.315965.13  
PI ( 185 ) 11+50.88 1854318.79 6.315965.94  
Tangential Direction: S 0°08'28.91" E  
Tangential Length: 329.53

Element: Linear  
PI ( 185 ) 11+50.88 1854318.79 6.315965.94  
PI ( 186 ) 14+10.86 1854058.86 6.315960.50  
Tangential Direction: S 1°12'01.53" W  
Tangential Length: 258.04

Element: Linear  
PI ( 186 ) 14+10.86 1854058.86 6.315960.50  
POE ( 187 ) 16+68.91 1853800.88 6.315955.09  
Tangential Direction: S 1°12'01.45" W  
Tangential Length: 175.86

Alignment Name: Sht 29  
Alignment Description: Donna Way & Donna Ave  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
POB ( 185 ) 1+00.00 1854318.79 6.315965.94  
PI ( 188 ) 2+75.86 1854321.71 6.315790.11  
Tangential Direction: N 89°02'47.36" W  
Tangential Length: 175.86

Element: Linear  
PI ( 188 ) 2+75.86 1854321.71 6.315790.11  
PI ( 189 ) 4+38.81 1854324.39 6.315627.18  
Tangential Direction: N 89°03'24.64" W  
Tangential Length: 162.95

Element: Linear  
PI ( 189 ) 4+38.81 1854324.39 6.315627.18  
POE ( 190 ) 6+97.55 1854065.70 6.315622.40  
Tangential Direction: S 1°03'27.15" W  
Tangential Length: 258.74

Horizontal Alignment Review Report  
Project: CJ788 Prop Wtr

Alignment Name: Sht 30-31  
Alignment Description: Celio Vista Dr  
Alignment Style: Default  
Station Northing Easting

Element: Linear  
PI ( 202 ) 3+54.25 1853712.48 6.314513.70  
PI ( 203 ) 6+78.14 1853701.00 6.315091.72  
Tangential Direction: S 89°02'35.75" E  
Tangential Length: 254.25

Element: Linear  
PI ( 203 ) 6+78.14 1853701.00 6.315091.72  
PI ( 204 ) 8+57.26 1853698.07 6.315270.81  
Tangential Direction: S 88°43'12.87" E  
Tangential Length: 323.88

Element: Linear  
PI ( 203 ) 6+78.14 1853701.00 6.315091.72  
PI ( 204 ) 8+57.26 1853698.07 6.315270.81  
Tangential Direction: S 89°03'37.84" E  
Tangential Length: 179.12

Element: Linear  
PI ( 204 ) 8+57.26 1853698.07 6.315270.81  
PI ( 205 ) 9+21.26 1853697.02 6.315334.81  
Tangential Direction: S 89°03'37.84" E  
Tangential Length: 64.00

Element: Linear  
PI ( 205 ) 9+21.26 1853697.02 6.315334.81  
PI ( 206 ) 12+21.93 1853692.12 6.315635.44  
Tangential Direction: S 89°04'01.32" E  
Tangential Length: 300.68

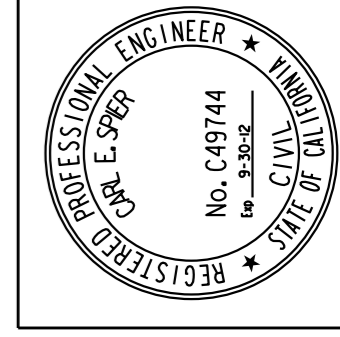
Element: Linear  
PI ( 206 ) 12+21.93 1853692.12 6.315635.44  
PI ( 207 ) 13+49.61 1853680.25 6.315763.10  
Tangential Direction: S 89°03'31.26" E  
Tangential Length: 127.67

Element: Linear  
PI ( 207 ) 13+49.61 1853680.25 6.315763.10  
PI ( 208 ) 14+04.80 1853689.44 6.315818.29  
Tangential Direction: S 89°03'31.26" E  
Tangential Length: 55.19

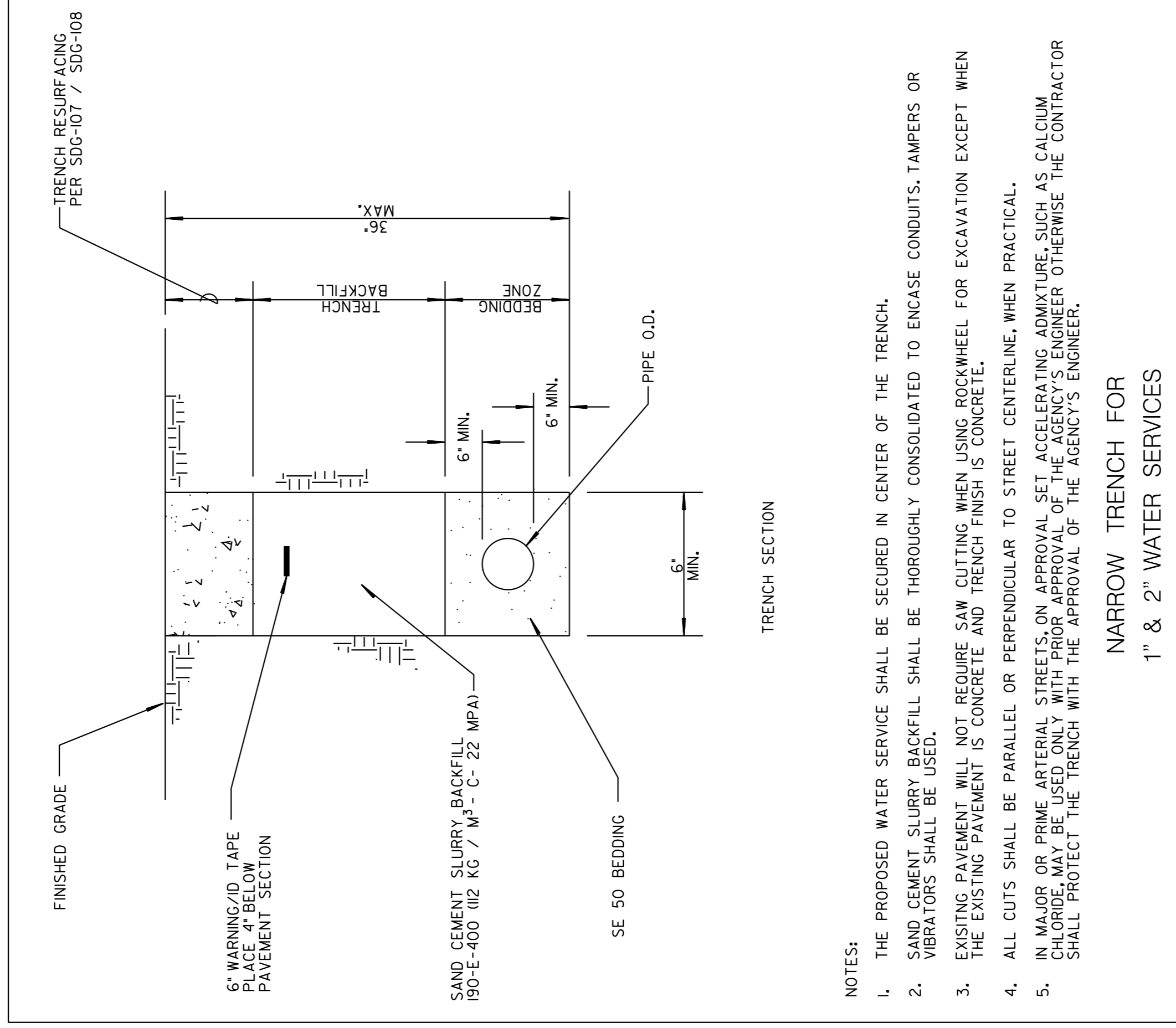
Element: Linear  
PI ( 208 ) 14+04.80 1853689.44 6.315818.29  
PI ( 209 ) 15+24.17 1853689.15 6.315937.66  
Tangential Direction: S 89°51'13.23" E  
Tangential Length: 119.37

C-36

<b>SEWER &amp; WATER GROUP 788</b>	
<b>ALIGNMENT REPORT</b>	
CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	
ISSUED BY: <i>[Signature]</i>	DATE: 2/8/2012
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: _____
DESCRIPTION: ORIGINAL	APPROVED: _____
PROJECT ENGINEER: _____	FILED: _____
SEE SHEETS	SEE SHEETS
CONTROL CERTIFICATION	CONTROL CERTIFICATION
LABORER COORDINATES	LABORER COORDINATES
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____



WATER W.D. B-00106	SEWER W.D. B-00379
CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 37 OF 38 SHEETS	
ISSUED BY: <i>[Signature]</i>	DATE: 2/8/2012
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: _____
DESCRIPTION: ORIGINAL	APPROVED: _____
PROJECT ENGINEER: _____	FILED: _____
SEE SHEETS	SEE SHEETS
CONTROL CERTIFICATION	CONTROL CERTIFICATION
LABORER COORDINATES	LABORER COORDINATES
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____



- NOTES:
1. THE PROPOSED WATER SERVICE SHALL BE SECURED IN CENTER OF THE TRENCH.
  2. SAND CEMENT SLURRY BACKFILL SHALL BE THOROUGHLY CONSOLIDATED TO ENCASE CONDUITS. TAMPERS OR VIBRATORS SHALL BE USED.
  3. EXISTING PAVEMENT WILL NOT REQUIRE SAW CUTTING WHEN USING ROCKWHEEL FOR EXCAVATION EXCEPT WHEN THE EXISTING PAVEMENT IS CONCRETE AND TRENCH FINISH IS CONCRETE.
  4. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO STREET CENTERLINE, WHEN PRACTICAL.
  5. IN MAJOR OR PRIME ARTERIAL STREETS, ON APPROVAL SET ACCELERATING ADMIXTURE, SUCH AS CALCIUM CHLORIDE, MAY BE USED ONLY WITH PRIOR APPROVAL OF THE AGENCY'S ENGINEER OTHERWISE THE CONTRACTOR SHALL PROTECT THE TRENCH WITH THE APPROVAL OF THE AGENCY'S ENGINEER.

NARROW TRENCH FOR  
1" & 2" WATER SERVICES

C-37

SEWER & WATER GROUP 788  
DETAIL SHEET

CITY OF SAN DIEGO CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 38 OF 38 SHEETS	DATE 2/8/2012	PROJECT ENGINEER VALERY POLYAK	WATER WBS B-00106
FOR CITY ENGINEER <i>[Signature]</i>	DATE 2/8/2012	PROJECT ENGINEER VALERY POLYAK	SEWER WBS B-00379
DESCRIPTION ORIGINAL	BY VP/BW	DATE	PROJECT ENGINEER VALERY POLYAK
APPROVED	DATE	FILED	SEE SHEETS C-327 COORDINATE
FOR CITY ENGINEER	DATE	FILED	SEE SHEETS C-383 COORDINATE
CONTRACTOR	DATE STARTED	INSPECTOR	33342-38-D

