

# City of San Diego

**CONTRACTOR'S NAME:** Burtech Pipeline Incorporated

**ADDRESS:** 102 Second Street, Encinitas, California 92024

**TELEPHONE NO.:** 760-634-2822

**FAX NO.:**

**CITY CONTACT:** Rosa Riego, Senior Contract Specialist, Email: [RRiego@sandiego.gov](mailto:RRiego@sandiego.gov)

Phone No. (619) 533-3426

A. Mills / D. Hernandez / L. Ambriz

## BIDDING DOCUMENTS



**FINAL**



**FOR**

## AC WATER & SEWER GROUP 1052

BID NO.: K-22-2047-DBB-3

SAP NO. (WBS/IO/CC): B-18092, B-18096

CLIENT DEPARTMENT: 2000

COUNCIL DISTRICT: 8, 9

PROJECT TYPE: KB, JA

**THIS CONTRACT WILL BE SUBJECT TO THE FOLLOWING:**

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

**BID DUE DATE:**

**2:00 PM**


**February 8, 2022**

**CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS**

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

**ENGINEER OF WORK**

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

  
\_\_\_\_\_  
For City Engineer

11/23/2021  
\_\_\_\_\_  
Date

Seal:



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## REQUIRED DOCUMENTS SCHEDULE DURING BIDDING AND AWARDING

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	DOCUMENT TO BE SUBMITTED	WHEN DUE	FROM
1.	Bid Bond (PDF via PlanetBids)	At Time of Bid	ALL BIDDERS
2.	Contractors Certification of Pending Actions	At Time of Bid	ALL BIDDERS
3.	List of Subcontractors for Alternate Items	At Time of Bid	ALL BIDDERS
4.	Mandatory Disclosure of Business Interests	At Time of Bid	ALL BIDDERS
5.	Debarment and Suspension Certification for Prime Contractors	At Time of Bid	ALL BIDDERS
6.	Debarment and Suspension Certification for Subcontractors, Suppliers & Mfgs	At Time of Bid	ALL BIDDERS
7.	Contractor's Experience and Past Project Documentation. See SSP and 2018 WB Section 500-2.1, "Initial Submittals", 1. a)	At Time of Bid	ALL BIDDERS
8.	Manufacturer Authorized Installer Certification. See SSP and 2018 WB Section 500-2.1, "Initial Submittals"	At Time of Bid	ALL BIDDERS
9.	Bid Bond (Original)	By 5 PM 3 working days after bid opening	ALL BIDDERS
10.	SLBE Good Faith Effort Documentation	By 5 PM 3 working days after bid opening	ALL BIDDERS
11.	Form AA60 – List of Work Made Available	By 5 PM 3 working days after bid opening with Good Faith Effort (GFE) documentation	ALL BIDDERS

ITEM	DOCUMENT TO BE SUBMITTED	WHEN DUE	FROM
12.	Phased Funding Schedule Agreement	Within 10 working days of receipt by the bidder of the Notice of Intent to Award	AWARDED BIDDER
13.	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> <li>• Joint Venture Agreement</li> <li>• Joint Venture License</li> </ul>	Within 10 working days of receipt by bidder of contract forms	AWARDED BIDDER
14.	Payment & Performance Bond: Certificates of Insurance & Endorsements	Within 10 working days of receipt by bidder of contract forms and NOI	AWARDED BIDDER
15.	Signed Contract Agreement Page	Within 3 working days of receipt by bidder of Contract Agreement	AWARDED BIDDER
16.	Listing of "Other Than First Tier" Subcontractors	Within 10 working days of receipt by bidder of contract forms	AWARDED BIDDER

## NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **AC Water & Sewer Group 1052**. For additional information refer to Attachment A.
2. **FULL AND OPEN COMPETITION:** This solicitation is subject to full and open competition and may be bid by Contractors on the City's approved Prequalified Contractors List. For information regarding the Contractors Prequalified list visit the City's web site: <http://www.sandiego.gov>.
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$14,610,000**
4. **BID DUE DATE AND TIME ARE: February 8, 2022, at 2:00 PM.**
5. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classifications: **A or C34 & C42**
6. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
  - 6.1. 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>8.7%</b>
2. ELBE participation	<b>13.6%</b>
3. Total mandatory participation	<b>22.3%</b>
  - 6.2. The Bid may be declared non-responsive if the Bidder fails to meet the following requirements:
    - 6.2.1. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document, OR
    - 6.2.2. Submit Good Faith Effort (GFE) documentation, saved in searchable Portable Document Format (PDF), demonstrating the Bidder made a good faith effort to conduct outreach to and include SLBE-ELBE Subcontractors as required in this solicitation by 5 PM 3 Working Days after the Bid opening if the overall mandatory participation percentage is not met.

**All submittals in searchable PDF shall be submitted electronically within the prescribed time identified in the contract documents via PlanetBids by invitation to the point of contact named in the bid provided by the Contract Specialist to all bidders.**

**7. AWARD PROCESS:**

- 7.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions of Award as stated within these documents and within the Notice of Intent to Award.
- 7.2. Upon acceptance of bids and determination of the apparent low bidder, the City will prepare the contract documents for execution within approximately 21 days of the date of the bid opening. The City will then award the contract upon receipt of properly signed Contract, bonds, and insurance documents.
- 7.3. This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form by the City Attorney's Office.
- 7.4. The low Bid will be determined by the Base Bid plus all the Alternates.
- 7.5. Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base bid alone or for the Base bid plus one or more alternates.

**8. SUBMISSION OF QUESTIONS:**

- 8.1. The Director (or Designee) of the Purchasing & Contracting 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. Any questions related to this solicitation shall be submitted to:

[RRiego@sandiego.gov](mailto:RRiego@sandiego.gov)

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

**9. PHASED FUNDING:** For Phased Funding Conditions, see Attachment B.

**10. ADDITIVE/DEDUCTIVE ALTERNATES:**

- 10.1. 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 a decision whether to incorporate these portions prior to award. The award

will be established as described in the Bid. The City reserves the right to award the Contract for the Base Bid only or for the Base Bid plus one or more Alternates.

- 10.2.** 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.



## INSTRUCTIONS TO BIDDERS

### 1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award.
- 1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening.
- 1.3. **Joint Venture Bidders Cumulative Maximum Bidding Capacity:** For projects with an engineer's estimate of \$30,000,000 or greater, Joint Ventures submitting bids may be deemed responsive and eligible for award if the cumulative maximum bidding capacity of the individual Joint Venture entities is equal to or greater than the total amount proposed.
  - 1.3.1. Each of the entities of the Joint Venture must have been previously prequalified at a minimum of \$15,000,000.
  - 1.3.2. Bids submitted with a total amount proposed of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification. To be eligible for award in this scenario, the Joint Venture itself or at least one of the Joint Venture entities must have been prequalified for the total amount proposed.
  - 1.3.3. Bids submitted by Joint Ventures with a total amount proposed of \$30,000,000 or greater on a project with an engineer's estimate of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification.
  - 1.3.4. The Joint Venture designated as the Apparent Low Bidder shall provide evidence of its corporate existence and furnish good and approved bonds in the name of the Joint Venture within 14 Calendar Days of receipt by the Bidder of a form of contract for execution.
- 1.4. Complete information and links to the on-line prequalification application are available at:  
  
<http://www.sandiego.gov/cip/bidopps/prequalification>
- 1.5. Due to the City's responsibility to protect the confidentiality of the contractors' information, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

2. **ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS:** Bids will be received in electronic format (eBids) EXCLUSIVELY at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.
- 2.1. **BIDDERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit an electronic bid.
- 2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
- 2.3. The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.
- 2.4. **BIDS REMAIN SEALED UNTIL BID DEADLINE.** eBids are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256-bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the "Bid Due Date and Time" are not available for review by anyone other than the submitter who has until the "Bid Due Date and Time" to change, rescind, or retrieve its proposal should it desire to do so.
- 2.5. **BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME.** Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, bidders, proposers, the general public, and City staff are able to immediately see the results online. City staff may then begin reviewing the submissions for responsiveness, EOCB compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.
- 2.6. **RECAPITULATION OF THE WORK.** Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.

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

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

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

**3. ELECTRONIC BID SUBMISSIONS CARRY FULL FORCE AND EFFECT:**

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

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

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

**3.4.** The Bidder agrees to the construction of the project as described in Attachment "A-Scope of Work" for the City of San Diego, in accordance with the requirements set forth herein for the electronically submitted prices. The Bidder guarantees the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent.

**4. BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant

to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.

**5. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**

**5.1. Prior** to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City's web-based vendor registration and bid management system. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg>

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

**6. JOINT VENTURE CONTRACTORS:** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 14 Calendar Days after receiving the Contract forms.

**7. INSURANCE REQUIREMENTS:**

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

**7.2.** Refer to sections 5-4, "INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

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

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") <a href="http://www.greenbookspecs.org/">http://www.greenbookspecs.org/</a>	2018	PWPI010119-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* <a href="https://www.sandiego.gov/ecp/edocref/greenbook">https://www.sandiego.gov/ecp/edocref/greenbook</a>	2018	PWPI010119-02
City of San Diego Standard Drawings* <a href="https://www.sandiego.gov/ecp/edocref/standarddraw">https://www.sandiego.gov/ecp/edocref/standarddraw</a>	2018	PWPI010119-03
Citywide Computer Aided Design and Drafting (CADD) Standards <a href="https://www.sandiego.gov/ecp/edocref/drawings">https://www.sandiego.gov/ecp/edocref/drawings</a>	2018	PWPI010119-04
California Department of Transportation (CALTRANS) Standard Specifications <a href="https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications">https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications</a>	2018	PWPI030119-05
CALTRANS Standard Plans <a href="https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications">https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications</a>	2018	PWPI030119-06

Title	Edition	Document Number
California Manual on Uniform Traffic Control Devices Revision 6 (CA MUTCD Rev 6) <a href="https://dot.ca.gov/programs/safety-programs/camutcd/camutcd-files">https://dot.ca.gov/programs/safety-programs/camutcd/camutcd-files</a>	2014	PWPI060121-10
<p><b>NOTE:</b> *Available online under Engineering Documents and References at: <a href="https://www.sandiego.gov/ecp/edocref/">https://www.sandiego.gov/ecp/edocref/</a></p> <p>*Electronic updates to the Standard Drawings may also be found in the link above</p>		

9. **CITY'S RESPONSES AND ADDENDA:** The City, at its discretion, may respond to any or all questions submitted in writing via the City's eBidding web site in the **form of an addendum**. No other responses to questions, oral or written shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addenda are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda at the time of bid submission.
10. **CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
11. **CONTRACT PRICING:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.
12. **SUBCONTRACTOR INFORMATION:**
- 12.1. **LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall state the **DIR REGISTRATION NUMBER** for all subcontractors and shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions – General; Paragraph 2-3 "Subcontracts" , which stipulates the percent of the Work to be performed with the

Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

Additionally, pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder shall provide the name, address, license number, DIR registration number of any Subcontractor - regardless of tier** - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract.

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

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

**13. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-6, "Trade Names" in The WHITEBOOK and as amended in the SSP.

**14. AWARD:**

**14.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.

**14.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.

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

15. **SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 3-2, "SELF-PERFORMANCE" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.
16. **AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Purchasing & Contracting Department, Public Works Division.
17. **ONLY ONE BID PER CONTRACTOR SHALL BE ACCEPTED:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.
18. **SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, First floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms within these documents.
19. **BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY) FOR DESIGN-BID-BUILD CONTRACTS:**
  - 19.1. For bids \$250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.
  - 19.2. This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.
  - 19.3. The Bidder agrees that in the event of the Bidder's failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.
  - 19.4. At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City's eBidding system. By 5PM,

3 working days after the bid opening date, all bidders must provide the City with the original bid security.

- 19.5.** Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original by 5PM, 3 working days after the bid opening date shall cause the bid to be rejected and deemed **non-responsive**.

Due to circumstances related to Covid-19, until further notice, all original bid bond submittals must be received by 5 PM, 3 working days after bid opening.

Upon circumstances returning to normal business as usual, the original bid bond shall once again be due by 5 PM the day after bid opening.

Original Bid Bond shall be submitted to:  
Purchasing & Contracting Department, Public Works Division  
525 B Street, Suite 750 (7<sup>th</sup> Floor)  
San Diego, California, 92101  
To the Attention of the Contract Specialist on the Front Page of this solicitation.

**20. AWARD OF CONTRACT OR REJECTION OF BIDS:**

- 20.1.** This contract may be awarded to the lowest responsible and reliable Bidder.
- 20.2.** Bidders shall complete ALL eBid forms as required by this solicitation. Incomplete eBids will not be accepted.
- 20.3.** The City reserves the right to reject any or all Bids, to waive any informality or technicality in Bids received, and to waive any requirements of these specifications as to bidding procedure.
- 20.4.** Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.
- 20.5.** A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.
- 20.6.** The City of San Diego will not discriminate in the award of contracts with regard to race, religion creed, color, national origin, ancestry, physical handicap, marital status, sex or age.
- 20.7.** Each Bid package properly signed as required by these specifications shall constitute a firm offer which may be accepted by the City within the time specified herein.



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

**21. BID RESULTS:**

**21.1.** The availability of the bids on the City's eBidding system shall constitute the public announcement of the apparent low bidder. In the event that the apparent low bidder is subsequently deemed non-responsive or non-responsible, a notation of such will be made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.

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

**22. THE CONTRACT:**

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

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

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

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

- 22.5.** The award of the Contract is contingent upon the satisfactory completion of the above-mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee and approval as to form by the City Attorney's Office. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
- 23. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 3-9, "TECHNICAL STUDIES AND SUBSURFACE DATA", and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 24. CITY STANDARD PROVISIONS:** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 24.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 24.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 24.3.** The City of San Diego Municipal Code §22.3004 for Contractor Standards.
- 24.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 24.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 24.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 24.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.
- 25. PRE-AWARD ACTIVITIES:**
- 25.1.** The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified herein and in the Notice of Intent to Award.

Failure to provide the information as specified may result in the Bid being rejected as non-responsive.

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

**PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND**

---

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

Burtech Pipeline Incorporated, a corporation, as principal, and NATIONWIDE MUTUAL 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 **Nine Million Nine Hundred Three Thousand Four Hundred Fifty One Dollars and Ten Cents (\$9,903,451.10)** for the faithful performance of the annexed contract, and in the sum of **Nine Million Nine Hundred Three Thousand Four Hundred Fifty One Dollars and Ten Cents (\$9,903,451.10)** for the benefit of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise, it shall remain in full force.

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

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

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


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

The Surety expressly agrees that the City of San Diego may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal.

The Surety shall not utilize the Principal in completing the improvements and work specified in the Agreement in the event the City terminates the Principal for default.

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

THE CITY OF SAN DIEGO

By: 

Print Name: Cindy Crocker  
Deputy Director  
Purchasing & Contracting Department

Date: May 19, 2022

**CONTRACTOR** BURTECH PIPELINE, INCORPORATED

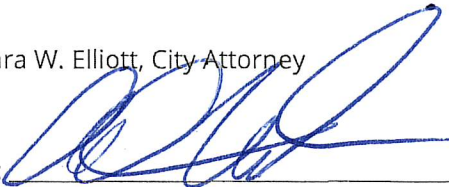
By: 

Print Name: DOMINIC J. BURTECH, JR., PRESIDENT

Date: MARCH 30, 2022

APPROVED AS TO FORM

Mara W. Elliott, City Attorney

By: 

Print Name: ADAM WARDER  
5/23/22 AW  
Deputy City Attorney

Date: 5/23/22

**SURETY** NATIONWIDE MUTUAL INSURANCE COMPANY

By:   
Attorney-In-Fact

Print Name: MARK D. IATAROLA, ATTORNEY-IN-FACT

Date: MARCH 30, 2022

500 BRAND BOULEVARD, SUITE 2000  
GLENDALE, CA 91203

Local Address of Surety

715/530-3481

Local Phone Number of Surety

\$51,584.00

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

Premium

7901023398

Bond Number

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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

State of California }

County of San Diego }

On 3/31/2022 before me, Arthur Patrick Arquilla **Notary Public**  
(Here insert name and title of the officer)

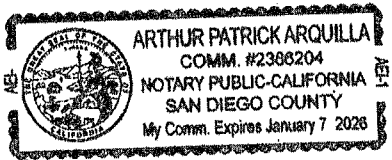
personally appeared Dominic Butech  
 who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s)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

(Notary Public Seal)



### ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

\_\_\_\_\_  
(Title or description of attached document)

\_\_\_\_\_  
(Title or description of attached document continued)

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

CAPACITY CLAIMED BY THE SIGNER

Individual (s)

Corporate Officer

\_\_\_\_\_ (Title)

Partner(s)

Attorney-in-Fact

Trustee(s)

Other \_\_\_\_\_

### INSTRUCTIONS FOR COMPLETING THIS FORM

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

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

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

CIVIL CODE § 1189

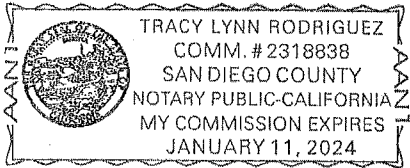
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }  
County of SAN DIEGO

On 3/30/2022 before me, TRACY LYNN RODRIGUEZ, NOTARY PUBLIC  
*Date Here Insert Name and Title of the Officer*

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

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



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

WITNESS my hand and official seal.

Signature *Tracy Lynn Rodriguez*  
*Signature of Notary Public*

Place Notary Seal and/or Stamp Above

**OPTIONAL**

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

**Description of Attached Document**

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

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

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

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

Signer's Name: MARK D. IATAROLA

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

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

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

Partner –  Limited  General

Partner –  Limited  General

Individual  Attorney in Fact

Individual  Attorney in Fact

Trustee  Guardian of Conservator

Trustee  Guardian of Conservator

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

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

Signer is Representing: \_\_\_\_\_

Signer is Representing: \_\_\_\_\_

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS THAT:

Nationwide Mutual Insurance Company, an Ohio corporation

hereinafter referred to severally as the "Company" and collectively as "the Companies" does hereby make, constitute and appoint: JOHN MALONEY; HELEN MALONEY; MARK D IATAROLA; SANDRA FIGUEROA;

each in their individual capacity, its true and lawful attorney-in-fact, with full power and authority to sign, seal, and execute on its behalf any and all bonds and undertakings, and other obligatory instruments of similar nature, in penalties not exceeding the sum of

UNLIMITED

and to bind the Company thereby, as fully and to the same extent as if such instruments were signed by the duly authorized officers of the Company; and all acts of said Attorney pursuant to the authority given are hereby ratified and confirmed.

This power of attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the board of directors of the Company:

"RESOLVED, that the president, or any vice president be, and each hereby is, authorized and empowered to appoint attorneys-in-fact of the Company, and to authorize them to execute and deliver on behalf of the Company any and all bonds, forms, applications, memorandums, undertakings, recognizances, transfers, contracts of indemnity, policies, contracts guaranteeing the fidelity of persons holding positions of public or private trust, and other writings obligatory in nature that the business of the Company may require; and to modify or revoke, with or without cause, any such appointment or authority; provided, however, that the authority granted hereby shall in no way limit the authority of other duly authorized agents to sign and countersign any of said documents on behalf of the Company."

"RESOLVED FURTHER, that such attorneys-in-fact shall have full power and authority to execute and deliver any and all such documents and to bind the Company subject to the terms and limitations of the power of attorney issued to them, and to affix the seal of the Company thereto; provided, however, that said seal shall not be necessary for the validity of any such documents."

This power of attorney is signed and sealed under and by the following bylaws duly adopted by the board of directors of the Company.

Execution of Instruments. Any vice president, any assistant secretary or any assistant treasurer shall have the power and authority to sign or attest all approved documents, instruments, contracts, or other papers in connection with the operation of the business of the company in addition to the chairman of the board, the chief executive officer, president, treasurer or secretary; provided, however, the signature of any of them may be printed, engraved, or stamped on any approved document, contract, instrument, or other papers of the Company.

IN WITNESS WHEREOF, the Company has caused this instrument to be sealed and duly attested by the signature of its officer the 20th day of August, 2021.

*[Handwritten Signature]*

Antonio C. Albanese, Vice President of Nationwide Mutual Insurance Company

ACKNOWLEDGMENT

STATE OF NEW YORK COUNTY OF NEW YORK: ss

On this 20th day of August, 2021, before me came the above-named officer for the Company aforesaid, to me personally known to be the officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, deposes and says, that he is the officer of the Company aforesaid, that the seal affixed hereto is the corporate seal of said Company, and the said corporate seal and his signature were duly affixed and subscribed to said instrument by the authority and direction of said Company.



Stephanie Rubino McArthur  
Notary Public, State of New York  
No. 02MC6270117  
Qualified in New York County  
Commission Expires October 19, 2024

*[Handwritten Signature]*

Notary Public  
My Commission Expires  
October 19, 2024

CERTIFICATE

I, Laura B. Guy, Assistant Secretary of the Company, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney issued by the Company; that the resolution included therein is a true and correct transcript from the minutes of the meetings of the boards of directors and the same has not been revoked or amended in any manner; that said Antonio C. Albanese was on the date of the execution of the foregoing power of attorney the duly elected officer of the Company, and the corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority of said board of directors; and the foregoing power of attorney is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of said Company this 30th day of MARCH, 2022.

*[Handwritten Signature]*

Assistant Secretary



## ATTACHMENTS

**ATTACHMENT A**  
**SCOPE OF WORK**

## SCOPE OF WORK

1. **SCOPE OF WORK:** Construction of AC Water and Sewer Group 1052 consists of replace water mains 11,022 LF of existing asbestos cement (AC ) water mains, install 3,562 of new PVC water, abandon 3,437 LF of existing AC water mains, including associated water services, fire hydrants, and replace sewer mains 2,727 LF of existing vitrified clay (VC), Polyvinyl chloride (PVC) sewer mains, install 2,389 LF of new sewer, rehabilitate 138 LF of existing (VC) sewer, abandon 2,943 LF of existing (VC), (CP), (PVC) sewer mains, including associated sewer laterals, sewer lateral replumbs, manholes, and curb ramps. This project also includes resurfacing of all streets impacted by it.
  - 1.1. The Work shall be performed in accordance with:
    - 1.1.1. The Notice Inviting Bids and Plans numbered **41338-01-D** through **41338-56-D**, inclusive.
2. **LOCATION OF WORK:** The location of the Work is as follows:

See **Appendix E – Location Map.**
3. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **350 Working Days.**

**ATTACHMENT B**  
**PHASED FUNDING PROVISIONS**

## PHASED FUNDING PROVISIONS

### 1. PRE-AWARD

- 1.1. Within 10 Working Days of the Notice of Intent to Award, the Contractor must contact the Project Manager to discuss fund availability for each phase and shall also submit the following:
  - 1.1.1. Construction Cost Loaded Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 7-3, "PAYMENT."
- 1.2. Contractor's failure to perform any of the following may result cancelling the award of the Contract:
  - 1.2.1. Meeting with the City's Project Manager to discuss the Phased Funding Schedule.
  - 1.2.2. Agreeing to a Phased Funding Schedule within **thirty** days of meeting with the City's Project Manager.

### 2. POST-AWARD

- 2.1. Do not start any construction activities for the next phase until the Notice to Proceed (NTP) has been issued by the City. The City will issue a separate NTP for each phase.
- 2.2. The City may issue the NTP for a subsequent phase before the completion of the preceding phase.

## PHASED FUNDING SCHEDULE AGREEMENT

The particulars left blank below, such as the total number of phases and the amounts assigned to each phase, will be completed with funding specific information from the Pre-Award Schedule and Construction Cost Loaded Schedule submitted to and approved by the City.

**BID NUMBER:** K-22-2047-DBB-3

**CONTRACT OR TASK TITLE:** AC Water & Sewer Group 1052

**CONTRACTOR:** Burtech Pipeline Incorporated

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Work to be completed in Phase 1 shall include: bonds, mobilization, videotaping of existing conditions, pipeline rehabilitation of 138 LF of sewer main from Sheet 29, sewer replacement of 3327 LF (0.63 miles) of sewer main from Sheets 27-31, and 3599 LF (0.68 miles) of water replacement from Sheets 15-20, as specified in the 41338-D plans.	Notice to Proceed	Dec 2022	\$ 3,000,000.00
2	Work to be completed in Phase 1 shall include: sewer replacement of 1789 LF (0.34 miles) of sewer main from Sheets 32-35, and 10,985 LF (2.08 miles) of water replacement from Sheets 4-14 and 21-26, as specified in the 41338-D plans.	Jan 2023	Dec 2023	\$ 6,000,000.00
3	Work to be completed in Phase 3 shall include the street resurfacing from sheets 36-38, curb ramp construction from sheets 39-44, and all remaining construction activities associated with the contract and specifications.	Jan 2024	Notice of Completion	\$ 903,451.10
<b>Contract Total</b>				<b>\$9,903,451.10</b>

**Notes:**

- 1) WHITEBOOK section 7-3.10, "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 written modifications to the CONTRACT.

**CITY OF SAN DIEGO**

PRINT NAME: Dino Cirip  
Construction Senior Engineer

Signature: [Handwritten Signature]

Date: 4-7-2022

PRINT NAME: JANICE JARO  
Design Senior Engineer

Signature: [Handwritten Signature]

Date: 04/07/2022

**CONTRACTOR**

PRINT NAME: Dominic J. Buterch

Title: President + CEO

Signature: [Handwritten Signature]

Date: 4/7/22

**ATTACHMENT C**

**RESERVED**



**ATTACHMENT D**  
**PREVAILING WAGE**

## PREVAILING WAGE

1. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair, and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
  - 1.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
    - 1.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
    - 1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.
  - 1.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed. This shall be in addition to any other applicable penalties allowed under Labor Code sections 1720 – 1861.

- 1.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying, and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 1.3.1.** Contractor and their subcontractors shall also furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 1.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 1.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on contractors and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 1.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 1.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."
- 1.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Prevailing Wage Unit at 858-627-3200.

- 1.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
- 1.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
- 1.9.2.** By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- 1.10. Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- 1.11. List of all Subcontractors.** The Contractor shall provide the list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Contract prior to any work being performed; and the Contractor shall provide a complete list of all subcontractors with each invoice. Additionally, Contractor shall provide the City with a complete list of all subcontractors (regardless of tier) utilized on this contract within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Construction Management Professional until at least thirty (30) days after this information is provided to the City.
- 1.12. Exemptions for Small Projects.** There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The

Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:

- 1.12.1.** Registration. The Contractor will not be required to register with the DIR for small projects. (Labor Code section 1771.1).
- 1.12.2.** Certified Payroll Records. The records required in Labor Code section 1776 shall be required to be kept and submitted to the City of San Diego but will not be required to be submitted online with the DIR directly. The Contractor will need to keep those records for at least three years following the completion of the Contract. (Labor Code section 1771.4).
- 1.12.3.** List of all Subcontractors. The Contractor shall not be required to hire only registered subcontractors and is exempt from submitting the list of all subcontractors that is required in section 1.11 above. (Labor code section 1773.3).

**ATTACHMENT E**  
**SUPPLEMENTARY SPECIAL PROVISIONS**

## SUPPLEMENTARY SPECIAL PROVISIONS

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

1. The **2018 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2018 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
  - a) General Provisions (A) for all Construction Contracts.

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### PART 0 – EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)

#### SECTION A – GENERAL REQUIREMENTS

**0-12 CONTRACT RECORDS AND REPORTS.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall maintain records of all subcontracts and invoices from your Subcontractors and Suppliers for work on this project. Records shall show name, telephone number including area code, and business address of each Subcontractor, Supplier, and joint venture partner, and the total amount actually paid to each firm. Project relevant records, regardless of tier, may be periodically reviewed by the City.
2. You shall retain all records, books, papers, and documents pertinent to the Contract for a period of not less than 5 years after Notice of Completion and allow access to said records by the City's authorized representatives.
3. You shall submit the following reports using the City's web-based contract compliance (Prism® portal):
  - a) **Monthly Payment.** You shall submit Monthly Payment Reporting by the 10<sup>th</sup> day of the subsequent month. Incomplete and/or delinquent reporting may cause payment delays, non-payment of invoices, or both.
4. The records maintained under item 1, described above, shall be consolidated into a Final Summary Report, certified as correct by an authorized representative of the Contractor. The Final Summary Report shall include all subcontracting activities and be sent to the EOCP Program Manager prior to Acceptance. Failure to comply may result in assessment of liquidated damages or withholding of retention. The City will review and verify 100% of subcontract participation reported in the Final Summary Report prior to approval and release of final retention to you. In the event your Subcontractors are owed money for completed Work, the City may authorize payment to subcontractor via a joint check from the withheld retention.

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

**1-2 TERMS AND DEFINITIONS.** To the “WHITEBOOK”, items 43, 56, 69, and 102, DELETE in their entirety and SUBSTITUTE with the following:

- 43. **Field Order** -A Field Order is a written agreement by the Engineer to compensate you for Work items in accordance with 2-8, “EXTRA WORK” or 2-9, “CHANGED CONDITIONS”. A Field Order does not change the Contract Price, Contract Time, or the scope intent of the Contract. The unused portion of the Field Order shall revert to the City upon Acceptance.
- 56. **Notice of Completion (NOC)** - A document recorded with the County of San Diego to signify that the Contract Work has been completed and accepted by the City.
- 69. **Punchlist** - A list of items of Work or corrections generated after a Walk-through that is conducted when you consider that the Work and Services are complete, and as verified by the Owner. The Punchlist may be completed in phases if defined in the Contract.
- 102. **Walk-through**- An inspection the City uses to verify the completion of the Project or phase of the Project and to generate a Punchlist prior to Acceptance.

To the “WHITEBOOK”, item 54, “Normal Working Hours”, ADD the following:

The **Normal Working Hours** are **7:30 AM to 3:30 PM**.

To the “WHITEBOOK”, ADD the following:

- 108. **Acceptance** – When all of the Contract Work, including all Punchlist items, is deemed officially complete by the City Asset Owning Department or Deputy City Engineer.
- 109. **Occupancy** – When the Owner deems a building is ready for use, the Owner will issue a certificate of Occupancy in writing.
- 110. **Substantial Completion** – When all Contract Work is deemed complete by the Contractor in writing, and as verified by the Owner. Substantial Completion may be completed in phases if defined in the Contract.

**1-7.1.3 Requests for Information (RFI).** To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

- 1. Should You discover a conflict, omission, errors in the Contract Documents, differences with existing field conditions, or have any questions concerning interpretation or clarification of Contract Documents, or when you propose deviations to the standards or design, you shall submit a Request for Information (RFI) to the City regarding your question or clarification within **1 Working Day**.



2. Your RFI shall meet the following requirements:
  - a) All RFIs, whether by You or your Subcontractor or supplier at any tier, shall be submitted by You to the City.
  - b) RFIs shall be numbered sequentially.
  - c) You shall clearly and concisely set forth the single issue for which interpretation or clarification is sought, indicate Specification Section numbers, Contract Drawing numbers, and details, or other items involved, and state why a response is required from the City.
  - d) RFIs shall be submitted within **1 Working Day** in order that they may be adequately researched and answered before the response affects any critical activity of the Work.
  - e) Should You believe that a response to an RFI causes a change to the requirements of the Contract, You shall, before proceeding, give written notice to the City, indicating that You believe that City response to the RFI to be a Change Order. Failure to give such written notice within **5 Working Days** of receipt of the City's response to the RFI shall waive Your right to seek additional time or cost.
3. The City will respond to RFIs within **5 Working Days** unless the City notifies You in writing that a response will take longer. The **5 Working Days** shall begin when the RFI is received and dated by the City. Responses from the City will not change any requirement of the Contract unless so noted by the City in the response to the RFI. The City will not issue a Change Order for Extra Work or additional time when the issue raised in the RFI was due to your fault, neglect, or any unauthorized deviations from the project design or specifications.
4. If You proceed in resolving a conflict, omission, or any error in the Contract Documents without sending the City an RFI in accordance with the requirements stated above, the City may require You to remove such work at Your cost or back charge You the cost to remove this work.

**1-7.2 Contract Bonds.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Before execution of the Contract, file payment and performance bonds with the City to be approved by the Board in the amounts and for the purposes noted. Bonds shall be executed by a responsible surety as follows:
  - a) If the Work is being funded with state or local money, consistent with California Code of Civil Procedure §995.670, the Surety shall be an "admitted surety" authorized by the State of California Department of Insurance to transact surety insurance in the State.
  - b) If the Work is being funded with federal money, the Surety shall be listed in the U.S. Treasury Department Circular 570 and shall be in conformance with the specified Underwriting Limitations.

To the "WHITEBOOK", item 2, subsection "a", subsection "i", DELETE in its entirety and SUBSTITUTE with the following:

- i. A "Payment Bond" (Materials and Labor Bond) is optional. If no bond is submitted, no payment shall be made until 35 Calendar Days after Acceptance and any lien requirements have been fulfilled. If a bond is submitted, progress payments shall be made in accordance with these Specifications.

To the "WHITEBOOK", item 2, subsection "d", DELETE in its entirety and SUBSTITUTE with the following:

- d) For Contracts over \$100,000:
  - i. A "Payment Bond" (Materials and Labor Bond) for 100% of the Contract Price to satisfy claims of material Suppliers and of mechanics and laborers employed on the Work. You shall maintain the bond in full force and effect until Acceptance and until all claims for materials and labor are paid and shall otherwise comply with the Government Code.
  - ii. A "Faithful Performance Bond" for 100% of the Contract Price to guarantee faithful performance of Work, within the time prescribed and in a manner satisfactory to the City, that materials and workmanship shall be free from original or developed defects.

To the "WHITEBOOK", item 7, DELETE in its entirety and SUBSTITUTE with the following:

7. You shall require the Surety to mail its standard "Bond Status" form to the Engineer at the following address:  
Deputy Director  
Construction Management and Field Engineering Division  
9573 Chesapeake Drive San Diego, CA 92123

### **SECTION 3 - CONTROL OF THE WORK**

**3-2 SELF-PERFORMANCE.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall perform, with your own organization, Contract Work amounting to at least 50% of the base Bid.

**3-3 SUBCONTRACTORS.** To the "WHITEBOOK", ADD the following:

6. When a Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the City, you shall remove such Subcontractor immediately upon written request of the City and shall request approval of a replacement Subcontractor to perform the Work in accordance with California Public Contract Code (PCC), Subletting and Subcontracting, Section 4107, at no added cost to the City.

**3-8.7 Contractor's Quality Control Plan (QCP).** To the "WHITEBOOK", ADD the following:

7. The establishment and implementation of a Quality Control Plan (QCP), as defined in the standard specifications, shall be required for this Contract. See example in **Appendix G - Sample Contractor's Daily Quality Control Inspection Report.**

**3-8.7.1 QCP Submittal.** To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. The QCP shall be organized to address, at a minimum, the following items:
  - a) Quality Control Administrator
  - b) Surface preparation and paving schedule
  - c) Inspection and documentation requirements (Daily Quality Control Inspection Report)
  - d) Material quality control testing plan
  - e) Documentation of quality control activities
  - f) Procedures for corrective action when quality control and/or acceptance criteria are not met
  - g) If paving Work will be in areas prone to shade, provide curing time of product

**3-8.7.4 Documentation.** To the "WHITEBOOK", item 3, section "a", subsection "viii", DELETE in its entirety and SUBSTITUTE with the following:

- viii. Documentation that the following have been verified to be in compliance:
  - Proper storage of materials and equipment.
  - Proper operation of all equipment.
  - Adherence to plans and technical specifications.
  - Review of quality control tests.
  - Safety inspection.
  - Mixing properties of products against the approved submittal limits.

**3-10 SURVEYING (DESIGN-BID-BUILD).**

**3-10.1 General.**

1. You shall provide all required site layout and general grade checking work not specified in 3-10.2, "Survey Services Provided by City".
2. Notify the City, in writing, at least 2 Working Days prior to requesting survey services provided by the City.

**3-10.2 Survey Services Provided by City.**

1. Monument Perpetuation, including mark-outs. You are responsible for requesting the coordination of these services.

- a) If at any time a monument will be destroyed or covered, such monument shall be perpetuated in accordance with state law. Inform the City Engineering Support & Technical Services Division's Land Survey Section (LSS), via project Resident Engineer, if any monument will be destroyed or covered during any construction activity.
2. The following surveying services (including construction staking), as defined in California Business & Professions Code §8726, shall be provided by the City:
- a) Locating or establishing alignment or elevations of all features or structures shown on project Plans.
  - b) Locating or establishing geodetic control points for all site feature or structure locations.
  - c) Produce topographic as-built data.
  - d) Locating, establishing, or re-establishing monuments, property lines, right-of-way lines, or easement lines.
  - e) Verifying structure finish grade elevations.
3. All construction survey stakes, control points, and other survey related marks provided by the City shall be preserved for the duration of the Project. If any construction survey stakes, control points, or other survey related marks are lost or disturbed and need to be replaced, such replacement shall be performed at your expense.

**3-10.3 Payment.**

- 1. The payment for site layout and general grade checking Work, coordination, and preservation of all survey related marks shall be included in the Contract Price.

**3-12.1 General.** To the "WHITEBOOK", ADD the following:

- 2. You shall provide a PM-10 certified self-loading motorized street sweeper equipped with a functional water spray system for this project.
- 3. You shall sweep all paved areas within the Work site and all paved haul routes as specified below:
  - a) Every Friday on a weekly basis.
  - b) 1 Working Day prior to each rain event.
  - c) As directed by the Engineer.

If these requirements would require you to sweep on a Holiday or Weekend, then you shall sweep the next available Working Day prior to that Holiday or Weekend.

**3-12.7 Drinking Water Discharges Requirements.** To the "WHITEBOOK", ADD the following:

1. You shall record the results for each discharge event on the City's Drinking Water Discharge Monitoring form included as **Appendix H - Monthly Drinking Water Discharge Monitoring Form.**

**3-12.8.7 Hazardous Waste Operations and Emergency Response (HAZWOPER) Certificate.**

To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. If flammable liquids or other hazardous wastes are encountered during dewatering activities, construction staff shall be required to have a HAZWOPER certificate in accordance with 5-15.1, "General" and in compliance with CCR Title 8, Section 5192 and 29 CFR, Part 1910.

**3-12.8.8 Payment.** To the "WHITEBOOK", item 3, ADD the following:

- a) Submit supporting invoices and a Schedule of Values for the Lump Sum Bid item for "Dewatering Hazardous Contaminated Water" in accordance with 7-2.1, "Schedule of Values (SOV)". The SOV shall itemize the Work to show the following:
  - i. All costs associated with handling contaminated groundwater specified in 3-12.8.6, "Dewatering System", and 3-12.8.7, "Hazardous Waste Operations and Emergency Response (HAZWOPER) Certificate".
  - ii. All costs associated with equipment used for dewatering hazardous contaminated groundwater, including costs for mobilization and demobilization.
  - iii. All rental and operating costs for equipment used for dewatering contaminated groundwater.

ADD the following:

6. The payment for Hazardous Waste Operations and Emergency Response (HAZWOPER) certification and training for construction staff shall be paid in accordance with 5-15.17," Payment".

**3-13.1 Completion.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall submit a written assertion that the Work has been completed and is ready for Owner Acceptance. 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 that you are relieved from responsibility to protect and maintain the Work and to which liquidated damages will be computed.

**3-13.1.1 Requirements Before Requesting a Walk-through.** To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

**3-13.1.1 Requirements Before Requesting Substantial Completion.**

1. The following items are required prior to requesting a Substantial Completion:
  - a) Remove temporary facilities from the Site.
  - b) Thoroughly cleaning the Site and removing all mark outs and construction staking.
  - c) Provide completed and signed Red lines in accordance with 3-7.3 “Redlines and Record Documents”.
  - d) Provide all material and equipment maintenance and operation instructions and/or manuals.
  - e) Provide all tools which are permanent parts of the equipment installed in the Project.
  - f) Provide and properly identify all keys for construction and all keys for permanent Work.
  - g) Provide all final Special Inspection reports required by the applicable building Code.
  - h) Provide all items specified to be supplied as extra stock. Wrap, seal, or place in a container all items as necessary to allow for storage by the City for future use. Verify the specified quantities.
  - i) Ensure that all specified EOCP and certified wage rate documentations covering the Contract Time have been submitted.
  - j) If the Work includes installing an irrigation system, provide the spare parts for the proposed irrigation system as specified in the Special Provisions.
  - k) If the Work includes sewer and storm drain installations, the inspection shall include televising in accordance with 306-18, “VIDEO INSPECTION”.
  - l) If the Work includes a Plant Establishment Period, Work in accordance with 801-6, “MAINTENANCE AND PLANT ESTABLISHMENT” shall be completed prior to requesting Substantial Completion, unless approved otherwise by the Owner.
  - m) Notify the Engineer to arrange a final inspection of any permanent BMPs installed.

### 3-13.1.2

**Walk-through and Punchlist Procedure.** To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

1. You shall notify the Engineer 15 Working Days in advance of date of anticipated Substantial Completion to allow time for Engineer to schedule a Walk-through.
2. After you complete the requirements in 3-13.1.1, “Requirements Before Requesting Substantial Completion” and when you consider that the Work is Substantially Complete, you will notify the Engineer in writing that the Project is Substantially Complete and request a Walk-through. The Engineer will review your request and determine if the Project is ready for a Walk-through, by verifying whether you have completed all items as required by 3-13.1.1, “Requirements Before Requesting Substantial Completion”. Within 7 Working Days, the City will either reject your request for a Walk-through in writing or schedule and conduct a Walk-through inspection. The Engineer shall facilitate the Walk-through.
3. The following documents shall be provided at the time of your Walk-through request: As-Built markup, Plans, specifications, technical data such as submittals and equipment manuals, draft final payment, warranties, material certifications, bonds, guarantees, maintenance service agreements, and maintenance and operating manuals.
4. Written warranties, except manufacturer's standard printed warranties, shall be on a letterhead addressed to you. Warranties shall be submitted in the format described in this section, modified as approved by the City, to suit the conditions pertaining to the warranty. Lack of submitting these items will delay start of Walk-through.
5. The Engineer will provide you with the Punchlist within 15 Working Days after the date of the Walk-through. The City shall not provide a preliminary Punchlist.
6. If the Engineer finds that the Project is not Substantially Complete as defined herein, the Engineer will terminate the Walk-through and notify you in writing.
7. If, at any time during the Engineer’s evaluation of the corrective Work required by the Punchlist, the Engineer discovers that additional corrective Work is required, the Engineer may include that corrective Work in the Punchlist.
8. You shall remain solely responsible for the Project Site until the Project is completely operational, all Punchlist items have been corrected, all operation and maintenance manuals have been approved, all necessary warranty letters have been received, and the work is formally accepted by the City.
9. The Engineer shall meet with you within 5 Working Days of notification that all Punchlist items are corrected. You shall complete the Punchlist within 30 Working Days and Working Days will continue to be counted until Acceptance of the Project.

**3-13.2**

**Acceptance.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall provide the completed, signed, and stamped DS-563 to the Engineer prior to Acceptance.
2. You shall deliver the final As-builts and final billing prior to Acceptance.
3. You shall assemble and deliver to the Engineer a Final Summary Report and Affidavit of Disposal prior to Acceptance.
4. Acceptance shall occur after all of the requirements contained in the Contract Documents have been fulfilled. If, in the Engineer's judgment, you have fully performed the Contract, the Engineer will recommend to the City Engineer that your performance of the Contract be accepted. You shall receive notification of Acceptance in writing from the Owner and counting of working days shall cease and Warranty begins.
5. Retention can be released 35 Calendar Days after NOC. Submit your request for retention to the Resident Engineer and they will mail to you a "Release of Claims" form which shall be completed and returned before the retention will be released.

**3-13.3**

**Warranty.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date the Work was accepted by the City unless the City has Beneficial Use or takes Occupancy of the project earlier (excluding water, sewer, and storm drain projects).
2. You shall warranty the Work free from all latent defects for 10 years and patent defects for a period of 4 years.
3. 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 the Engineer in writing.
4. All express warranties from Subcontractors, manufacturers', or Suppliers', of any tier, for the materials furnished and Work performed shall be assigned, in writing, to the City, and shall be delivered to the Engineer prior to the Acceptance of your performance of the Contract.
5. Replace or repair defective materials and workmanship in a manner satisfactory to the Engineer after notice to do so from the Engineer and within the time specified in the notice. If you fail to make such replacements or repairs within the time specified in the notice, the City may perform the replacement or repairs at your expense. If you fail to reimburse the City for the actual costs, your Surety shall be liable for the cost



6. Items that shall be warrantied free from defective workmanship and materials for a period longer than 1 year are as follows:

Specified Item	Minimum Warranty Period
Detectable Warning Tile Construction	3 Years of Manufacturer's Warranty
All Work Under SECTION 500 - PIPELINE REHABILITATION	3 Years
Fiber Optic Interconnect Cables	2 Years
Luminaires*	10 Years of Manufacturer's Warranty
LED Signal Modules	3 Years of Manufacturer's Warranty
Field Devices Associated with 700-6.3, "Adaptive Control Note"	See 700-6.3.9, "Warranty"

\* Provide documentation verifying that the induction luminaire models being offered for the Project are covered by the 10-year warranty.

7. If installed, you shall provide the City and property owner a copy of the manufacturer's warranty for private sewer pumps, including the alarm panel and all other accessories.
- a) You shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
  - b) Nothing in here 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.
  - c) The warranty shall include all components. The form of the warranty shall be approved by the Engineer in accordance with 3-13.3.2, "Warranty Format Requirements".
8. If, during the warranty period, any item of the Work is found to be Defective Work, you shall correct it promptly after receipt of written notice from the City to do so. The warranty period shall be extended with respect to portions of the Work corrected as part of the warranty requirements.

**3-15.3 Coordination.** To the "WHITEBOOK", ADD the following:

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity . See **Appendix F - Adjacent Project Map** for the approximate location. Coordinate the Work with the adjacent projects as listed below:
  - a) Main Street-GJ 1052A, Shaza Nezha, [snezha@sandiego.gov](mailto:snezha@sandiego.gov)  
619-533-4695

## SECTION 4 - CONTROL OF MATERIALS

**4-3.6 Preapproved Materials.** To the "WHITEBOOK", ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

**4-6 TRADE NAMES.** To the "WHITEBOOK", ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on the City's Product Submittal Form available at:

<https://www.sandiego.gov/ecp/edocref/>

## SECTION 5 - LEGAL RELATIONS AND RESPONSIBILITIES

**5-4 INSURANCE.**

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

**5-4.1 Policies and Procedures.**

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

**5-4.2 Types of Insurance.**

**5-4.2.1 Commercial General Liability Insurance.**

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall 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

**5-4.2.2 Commercial Automobile Liability Insurance.**

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
2. All costs of defense shall be outside the limits of the policy.

**5-4.2.3 Contractors Pollution Liability Insurance.**

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

2. All costs of defense shall be outside the limits of the policy. Any such insurance provided by your Subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of a substitution of your Subcontractor's insurance, you shall 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 shall not exceed \$25,000 per claim.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability.
5. Occurrence based policies shall be procured before the Work commences and shall be maintained for the Contract Time. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
6. Except as provided for under California law, the policy or policies shall 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.

**5-4.2.4 Contractors Hazardous Transporters Pollution Liability Insurance.**

1. You shall provide at your expense or require your Subcontractor to provide, as described below, Contractors Hazardous Transporters Pollution Liability Insurance including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit per occurrence/aggregate for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. The deductible shall not exceed \$25,000 per claim. Any such insurance provided by a subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of the substitution of Subcontractor's insurance the Contractor shall certify that all activities for which Contractors Hazardous Transporters Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. Occurrence based policies shall be procured before the Work commences and shall be maintained for the duration of this Contract. Claims Made policies

shall be procured before the Work commences, shall be maintained for the duration of this contract, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work under this Contract without advancing the retroactive date.

5. Except as provided for under California law, the policy or policies shall 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.

**5-4.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall 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.

**5-4.3.1 Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

**5-4.4 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 shall 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.

**5-4.5 Policy Endorsements.**

**5-4.5.1 Commercial General Liability Insurance.**

**5-4.5.1.1 Additional Insured.**

1. You shall 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.
2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
3. The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more shall 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.
4. The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 shall 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.

**5-4.5.1.2 Primary and Non-Contributory Coverage.** The policy shall 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 shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**5-4.5.1.3 Project General Aggregate Limit.** The policy or policies shall 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 shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

**5-4.5.2 Commercial Automobile Liability Insurance.**

**5-4.5.2.1 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 shall 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.

**5-4.5.3 Contractors Pollution Liability Insurance Endorsements.**

**5-4.5.3.1 Additional Insured.**

1. The policy or policies shall 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 shall 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.

2. 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 are 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 shall be limited to obligations permitted by California Insurance Code §11580.04.

**5-4.5.3.2 Primary and Non-Contributory Coverage.** The policy or policies shall 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 shall be in excess of your insurance and shall not contribute to it.

**5-4.5.3.3 Severability of Interest.** For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall 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 shall provide cross-liability coverage.

**5-4.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.**

**5-4.5.4.1 Additional Insured.**

1. The policy or policies shall 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 shall 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.

2. 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 are 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 shall be limited to obligations permitted by California Insurance Code §11580.04.

**5-4.5.4.2 Primary and Non-Contributory Coverage.** The policy or policies shall 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 shall be in excess of your insurance and shall not contribute to it.

**5-4.5.4.3 Severability of Interest.** For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies shall provide that your insurance shall 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 shall provide cross-liability coverage.

**5-4.6 Deductibles and Self-Insured Retentions.** You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

**5-4.7 Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles, and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

**5-4.8 Notice of Changes to Insurance.** You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

**5-4.9 Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g.

**5-4.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).**

1. For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability



coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate in full force and effect.

2. You shall ensure the following:
  - a) The policy retroactive date is on or before the date of commencement of the Project.
  - b) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
  - a) Certify this to the City in writing and
  - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

**5-4.11 Workers' Compensation Insurance and Employers Liability Insurance.**

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.
2. Limits for this insurance shall be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit
3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires 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 shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

**5-4.11.1 Waiver of Subrogation.** The policy or policies shall 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.

**5-10.2.1 Public Notice by Contractor.** To the "WHITEBOOK", items 2 and 3, DELETE in their entirety and SUBSTITUTE with the following:

2. No less than 5 Working Days in advance of Project construction activities and utility service interruptions, you shall notify all critical facilities, businesses, institutions, property owners, residents, or any other impacted stakeholders within a minimum 300-foot (90 m) radius of the Project. Verbal and written notifications shall be sent to critical facilities (including but not limited to police stations, fire stations, hospitals, and schools). A copy of written notifications sent to any critical facility shall also be sent to the Resident Engineer. You shall keep records of the people contacted, along with the dates of notification, and shall provide the record to the Engineer upon request. You shall identify all other critical facilities that need to be notified.
3. Furnish and distribute public notices in the form of door hangers using the City's format to all occupants and/or property owners along streets:
  - a) Where Work is to be performed at least Working 5 Working Days before starting construction or survey activities or impacting the community as approved by the Resident Engineer.
  - b) Within 5 Working Days of the completion of your construction activities where Work was performed, you shall distribute public notices in the form of door hangers, which outlines the anticipated dates of Asphalt Resurfacing or Slurry Seal.
  - c) 72 hours in advance of the scheduled resurfacing.

**5-13 ELECTRONIC COMMUNICATION.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Virtual Project Manager shall be used on this Contract.
2. You shall post all communications addressed to the Engineer concerning construction including RFIs, submittals, daily logs including the Weekly Statement of Working Days (WSWD), Storm Water, and transmittals to the Virtual Project Manager (VPM) website established for the Projects. This shall not supersede any Federal requirements.
3. Maintain a list of scheduled activities including planned and actual execution dates for all major construction activities and milestones defined in the approved Schedule.
4. Review and act on all communications addressed to you in the VPM project website.
5. A user's guide to the VPM system is available on the City's website and shall be provided to you at the Pre-construction Meeting. Refer to the VPM training videos and forms at the location below:

<https://www.sandiego.gov/ecp/edocref/>

6. Submit the Sensitive Information Authorization Acknowledgement Form and VPM User Agreement located in the VPM user's guide at the Pre-construction Meeting.

**5-15.1 General.** To the "WHITEBOOK", item 10, DELETE in its entirety and SUBSTITUTE with the following:

10. If your construction activities have encountered flammable liquids or other hazardous substances, you shall ensure that construction staff have the required Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. Construction staff shall include: City Engineers, City Laboratory Technicians, and City staff that perform onsite inspections.
  - a) If your Work encounters flammable liquids or other hazardous substances, you shall be responsible for scheduling training for all construction staff to attend and for submitting verification to the Engineer that construction staff have the required HAZWOPER certification prior to continuing that Work in that area. You shall maintain the HAZWOPER certifications annually until the construction activities triggering the requirement is complete, as approved by the Resident Engineer.
  - b) You shall be responsible for implementing, training, and submitting verification to the Engineer that construction staff have the required HAZWOPER certification before the Notice to Proceed (NTP) has been issued.

**5-15.17 Payment.** To the "WHITEBOOK", ADD the following:

5. The payment for Hazardous Waste Operations and Emergency Response (HAZWOPER) certification and training for construction staff shall be included in the allowance Bid item for "Hazardous Waste Operations and Emergency Response (HAZWOPER) Certification".

## SECTION 6 - PROSECUTION AND PROGRESS OF THE WORK

**6-1.1 Construction Schedule.** To the "GREENBOOK", paragraph (1), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

After notification of award of the Contract and prior to the start of any Work, you shall submit your proposed Cost Loaded Construction Schedule to the Engineer at the pre-construction meeting.

To the "WHITEBOOK", item 1, subsection "e", "h", and "s", DELETE in their entirety and SUBSTITUTE with the following:

- e) Monthly progress payments are contingent upon the submittal of an updated Schedule to the Engineer. The Engineer may refuse to process the whole or part of any monthly payment if you refuse or fail to provide an acceptable schedule.

- h) Your Schedule shall include 7 Working Days for the Engineer to schedule and conduct a Walk-through inspection and 15 Working Days for the generation of the Punchlist. You shall Work diligently to complete all Punchlist items within 30 Working Days after the Engineer provides the Punchlist.
- s) Submit an updated cash flow forecast with every pay request (for each Project ID or WBS number provided in the Contract) showing periodic and cumulative construction billing amounts for the duration of the Contract Time. If there has been any Extra Work since the last update, include only the approved amounts.
  - i. Refer to the Sample City Invoice materials in **Appendix D – Sample City Invoice with Cash Flow Forecast** and use the format shown.
  - ii. See also the “Cash Flow Forecast Example” at the location below:

<https://www.sandiego.gov/ecp/edocref/>

**6-1.1.2 Contracts More Than \$500,000 In Value.** To the “WHITEBOOK”, item 1, DELETE in its entirety and SUBSTITUTE with the following:

- 1. Provide the Schedule to the Engineer in accordance with 6-1.1, “Construction Schedule” and 6-1.2, “Commencement of the Work”.

To the “WHITEBOOK”, item 2, DELETE in its entirety.

**6-1.2 Commencement of the Work.** To the “WHITEBOOK”, ADD the following:

- 5. You shall submit a Cost Loaded Construction Schedule in accordance with 6-1.1, “Construction Schedule” at the scheduled pre-construction meeting.
- 6. If a Cost Loaded Construction Schedule is not provided, the pre-construction meeting will still be held. The Contract Time shall commence at issuance of the NTP, but you shall be limited to the following activities until the Cost Loaded Construction Schedule has been submitted to the Resident Engineer with no exceptions taken:
  - a) Mobilization of your trailers, associated utility setup, and grading for trailer area
  - b) Permit Procurement
  - c) Fencing and temporary utilities for your storage areas
  - d) Submittal of anticipated critical path submittals
- 7. Work along Z Street, between S 43rd Street and S 45th Street must be completed first.

**6-1.5.2 Excusable Non-Compensable Delays.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**6-1.5.2 Excusable Non-Compensable and Concurrent Delays.**

1. The City shall only issue an extension of time for Excusable Delays that meet the requirements of 6-4.2, "Extensions of Time" for the following circumstances:
  - a) Delays resulting from Force Majeure.
  - b) Delays caused by weather.
  - c) Delays caused by changes to County, State, or Federal law.
2. When a non-excusable delay is concurrent with an Excusable Delay, you shall not be entitled to an extension of Contract Time for the period the non-excusable delay is concurrent with the Excusable Delay.
3. When an Excusable Non-Compensable Delay is concurrent with an Excusable Compensable Delay, you shall be entitled to an extension of Contract Time but shall not be entitled to compensation for the period the Excusable Non-Compensable Delay is concurrent with the Excusable Compensable Delay.

**6-4.2 Extensions of Time.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The Contract Time shall not be modified except by Change Order.
2. You shall notify the City in writing within **1 Working Day** after the occurrence and discovery of an event that impacts the Project Schedule.
  - a) If you believe this event requires a Change Order, you shall submit a **written Change Order request with a report to** the City that explains the request for Change Order within **5 Working Days**. The Change Order request must include supporting data, a general description of the discovery, the basis for extension, and the estimated length of extension. The City may grant an extension of time, in writing, for the Change Order request if you require more time to gather and analyze data.
3. The Engineer shall not grant an extension of Contract Time in accordance with 6-1.5, "Excusable Delays" unless you demonstrate, through an analysis of the critical path, the following:
  - a) The event causing the delay impacted the activities along the Project's critical path.
  - b) The increases in the time to perform all or part of the Project beyond the Contract Time arose from unforeseeable causes beyond your control and without your fault or negligence and that all project float has been used.
4. Any modifications to the Contract Time will be incorporated into the weekly document that the Engineer issues that stipulates the Contract Time. If you do

not agree with this document, submit to the Engineer for review a written protest supporting your objections to the document within **30 Calendar Days** after receipt of the statement. Your failure to file a timely protest shall constitute your acceptance of the Engineer's weekly document.

- a) Your protest will be considered a claim for time extension and shall be subject to 2-10.1, "Claims".

**6-4.4 Written Notice and Report.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your failure to notify the Resident Engineer within **1 Working Day** OR provide a Change Order request within **5 Working Days** after the event, in accordance with 6-4.2, "Extensions of Time", will be considered grounds for refusal by the City to consider such request if your failure to notify prejudices the City in responding to the event.

**ADD:**

**6-6.1.1 Environmental Document.**

1. The City of San Diego has prepared an **Addendum to Mitigated Negative Declaration** for **AC Water Group 1052**, Project No. **667612**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Addendum to Mitigated Negative Declaration** as set forth in **Appendix A**.
2. Compliance with the City's environmental document shall be included in the Contract Price unless separate bid items have been provided.

**6-6.2.1 Archaeological and Native American Monitoring Program.** To the "WHITEBOOK", ADD the following:

4. You shall retain a qualified archaeologist and Native American Monitor for this Contract. You shall coordinate your activities and Schedule with the activities and schedules of the archaeologist and Native American monitor. Notify the Engineer before noon of the Working Day before monitoring is required. See 3-5, "INSPECTION" for details.

**6-6.2.2 Paleontological Monitoring Program.** To the "WHITEBOOK", ADD the following:

3. You shall retain a qualified paleontologist for this Contract. You shall coordinate your activities and Schedule with the activities and schedules of the paleontologist monitor. Notify the Engineer before noon of the Working Day before monitoring is required. See 3-5, "INSPECTION" for details.

## **SECTION 7 - MEASUREMENT AND PAYMENT**

**7-3.1 General.** To the "GREENBOOK" and "WHITEBOOK", paragraph (8), DELETE in its entirety and SUBSTITUTE with the following:

If, within the time fixed by law, a properly executed notice to stop payment is filed with the City, due to your failure to pay for labor or materials used in the Work, all money due for such labor or materials will be withheld from payment in accordance with applicable laws.

To the "WHITEBOOK", ADD the following:

1. Unless specified otherwise, the Contract Price includes use, consumer, and other taxes mandated by applicable legal requirements.
2. As provided in §7105 of the California Public Contract Code, if the Contract is not financed by revenue bonds, you are not responsible for the cost of repairing or restoring damage to the Project when damage was proximately caused by an act of God, in excess of 5% of the Contract Price, if the following occur:
  - a) The Project damaged was built in accordance with the Contract requirements.
  - b) There are no insurance requirements in the Contract for the damages.

### 7-3.2

**Partial and Final Payment. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:**

1. The Final Payment, which is the release of Retention, shall be paid to you after you have successfully submitted the following required documents:
  - a) An affidavit that payrolls and bills for materials, equipment, and other indebtedness connected with the Work for which the City or the City's property might be responsible for or encumbered by.
  - b) A certificate evidencing that insurances required by the Contract Documents shall remain in force after Final Payment is currently in effect and shall not be canceled or allowed to expire until at least a 30 Calendar Days prior written notice has been given to the Engineer.
  - c) Consent of Surety to Final Payment.
  - d) If required by the Engineer, other data establishing payment or satisfaction of obligations such as receipts, releases and waivers of liens, claims, and security interests or encumbrances arising out of the Contract Documents. If a Subcontractor refuses to furnish a release or waiver required by the City, you may furnish a bond satisfactory to the Engineer to indemnify the City against such lien.
  - e) If required in the Contract Documents, the successful completion and submittal of the required reports such as construction demolition, waste recycling, and hydrostatic discharge reports.
  - f) Required EOCP Final Summary Report in accordance with Section 0-12, "Contract Records and Reports", record drawings, operations manuals, test reports, warranty documentation, and UL labels shall be submitted before requesting the release of retention.
  - g) Acceptance of the completed Project by the asset owning Department.

To the "WHITEBOOK", ADD the following:

2. Submit an invoice for payment after you successfully complete the required documents and the City will pay the invoice within 30 Calendar Days. The City will pay 6% annually for late retention payments.

**7-3.2.1 Application for Progress Payment.** To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. The City shall not pay progress or partial payments until you submit to the Engineer an acceptable updated Schedule. It is solely your responsibility to prepare and submit the Schedule updates.

**7-3.2.2 Amount of Progress Payments.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The City will pay 6% annually for late progress payments.
2. Progress payments will be considered "late" if the following occur:
  - a) The City does not pay the contractor within 30 Calendar Days from receipt of an undisputed and properly submitted invoice. A properly submitted payment invoice means that the City has approved for payment the entire invoice amount or if the Resident Engineer has not disputed any portion of the application within 7 Calendar Days of the date of submission.
  - b) The application for payment does not require signing of a Contract Change Order.
3. The Engineer may withhold payment for any of the following reasons:
  - a) Defective or incomplete Work.
  - b) Not providing an updated and accurate Cost Loaded Construction Schedule in accordance with 6-1.1, "Construction Schedule".
  - c) Stop notices, wage orders, or other withholdings required by Applicable Law. Your failure to comply with 5-3.3, "Payroll Records" and the Contractor Registration and Electronic Reporting System requirements of the Contract Documents.
4. The Engineer may back charge the contract for any of the following reasons:
  - a) Defective or incorrect Work not remedied.
  - b) Damage to City property or a third party's property that was caused by you.
  - c) Liquidated Damages.

**7-3.2.3 Waiver of Claims at Final Payment.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your acceptance of Final Payment constitutes a waiver of affirmative Claims by you, except those previously made in writing and identified as unsettled at the time of Final Payment.



**7-3.2.4 Withholding of Payment and Back Charge.** To the "WHITEBOOK", DELETE in its entirety.

**7-3.4.1 Payment.** To the "WHITEBOOK", ADD the following:

4. The cost for mobilization excludes the costs for all mobilization and demobilization Work associated with each paving phase. The costs for all mobilization and demobilization Work associated with each paving phase shall be paid in accordance with 306-1.2.1, "Payment".

**7-3.5.1 General.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Unit Bid prices shall not be subject to adjustment regardless of quantity used, or if none is used, for the following Bid items:
  - a) imported backfill
  - b) shoring
  - c) water services
  - d) house connection sewers
  - e) water pollution control items
2. Unit Bid prices for "Potholing Existing Utilities Not Shown on Plans (Depth up to 7 feet)" shall not be subject to adjustment regardless of quantity used or if none is used.
3. Upon discovery and prior to the Work, you shall notify the Resident Engineer if there is a change in Bid item quantity that increases the total Contract Price by 5% or \$100,000 or more, whichever is less.

**7-3.11 Compensation Adjustments for Price Index Fluctuations.** To the "WHITEBOOK", ADD the following:

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

**7-4.3 Markup.** To the "WHITEBOOK", item 4, DELETE in its entirety and SUBSTITUTE with the following:

4. When a Subcontractor is performing Extra Work, the allowance for overhead and profit shall be applied to the labor, materials, and equipment costs of the Subcontractor as follows:
  - a) Regardless of the number of a Subcontractor's tasks for Extra Work, you may only apply 10% for the first \$50,000 of the Subcontractor's portion of accumulated total cost then 5% for any remaining costs. You shall not apply 10% to any costs after the first \$50,000 of accumulated total costs from performing Extra Work.
  - b) If the accumulated costs of single or subsequent tasks exceed the \$50,000 threshold, you shall instead only apply 5% to any amounts in excess of the \$50,000.

- c) Regardless of the number of hierarchical tiers of Subcontractors, you may only markup a Subcontractor's Work once.

### **SECTION 201 – CONCRETE, MORTAR, AND RELATED MATERIALS**

**201-1.1.2 Concrete Specified by Class and Alternate Class.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Monolithic curb and pavement shall not be allowed.
2. To Table 201-1.1.2, REVISE the following:
  - a) Concrete class for "Concrete Pavement (not integral with curb)", DELETE "520-A-2500" and SUBSTITUTE with "560-C-3250".
  - b) Concrete class for "Sidehill Surface Drainage Facilities", DELETE "500-C-2500" and SUBSTITUTE with "520-C-2500".
  - c) Concrete class for "Fence and Guardrail Post Foundations", DELETE "500-C-2500" and SUBSTITUTE with "520-C-2500".

### **SECTION 203 – BITUMINOUS MATERIALS**

**203-6.3.1 General.** To the "WHITEBOOK", ADD the following:

3. Asphalt concrete for Job Mix Formula (JMF) and Mix Designs shall be Type III and shall not exceed 15% RAP.

### **SECTION 209 – PRESSURE PIPE**

**209-1.1.1 General.** To the "WHITEBOOK", ADD the following:

2. PVC products, specifically type C900 and C905, as manufactured or distributed by J-M Manufacturing Company or JM Eagle shall not be used on the Contract for pressurized pipe.
3. Refer to AWWA C900-16 for all references to AWWA C905.

### **SECTION 301 – SUBGRADE PREPARATION, TREATED MATERIALS, AND PLACEMENT OF BASE MATERIALS**

**301-1.6 Preparatory Repair Work.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Prior to the placement of any asphalt concrete or application of slurry, you shall complete all necessary preparation and repair Work and shall obtain approval by the Resident Engineer.

ADD the following:

13. Asphalt concrete shall be Type III and shall not exceed 15% RAP in accordance with 203-6.3.1, "General".

## SECTION 302 – ROADWAY SURFACING

**302-4.5 Scheduling, Public Convenience and Traffic Control.** To the “GREENBOOK”, paragraphs (1) and (2), DELETE in their entirety and SUBSTITUTE with the following:

1. In addition to the requirements of Part 6, you shall comply with the following:
  - a) At least 5 Working Days prior to commencing the Work, you shall submit your proposed Schedule to the Engineer for approval.
  - b) Based upon the approved schedule, you shall notify residents and businesses of the Work and post temporary “No Parking” signs 72 hours in advance.
  - c) Requests for changes in the approved Schedule shall be submitted to the Engineer for approval at least 3 Working Days before the street is scheduled to be sealed.

**302-4.12.2 Application.** To the “WHITEBOOK”, item 1, ADD the following:

- c) RPMS shall only be placed when ambient temperature is 50° F or higher.

## SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

**303-5.1.1 General.** To the “WHITEBOOK”, ADD the following:

7. For the purposes of this section, the terms “walk” and “access ramp” shall be synonymous with “sidewalk” and “curb ramp and pedestrian ramp”, respectively.

**303-5.10.2 Payment.** To the “WHITEBOOK”, ADD the following:

4. The payment for completely removing and replacing the existing concrete spandrel of a cross gutter associated with curb ramp installations, in accordance with SDG-131 - General Curb Ramp Notes, and as identified on the Plans, shall be included in the payment for the curb ramp. No additional costs shall be incurred when separate Bid items for cross gutters has been provided.
5. The payment for completely removing and replacing the existing concrete alley apron associated with curb ramp installations, in accordance with SDG-131 - General Curb Ramp Notes, and as identified on the Plans, shall be included in the payment for the Curb Ramp installation. No additional costs shall be incurred when separate Bid items for alley aprons has been provided.

## SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

**ADD:**

**306-1.1 High-line Phasing.**

1. Build the Project in accordance with the water high-lining phasing shown on the Plans and in phases as follows:
  - a) Phase I: Beta Street from Birch Street to 39<sup>th</sup> Street
  - b) Phase II: Birch Street from Beta Street to Vesta Street

- c) Phase III: Acacia Street from Beta Street to Vesta Street, Una Street from Acacia Street to Birch Street, and Vesta Street from Acacia Street to Birch Street
- d) Phase IV: 38<sup>th</sup> Street from Alpha Street to Acacia Street
- e) Phase V: Dalbergia Street from Thor Street to Woden Street, Thor Street from Main Street to Dalbergia Street, Una Street from Main Street to Dalbergia Street, Vesta Street from Main Street to Dalbergia Street, and Woden Street from Main Street to Dalbergia Street
- f) Phase VI: San Miguel Avenue
- g) Phase VII: Alley from S 42<sup>nd</sup> Street to San Pasqual Street
- h) Phase VIII: Newton Avenue from End of Newton Avenue to S 44<sup>th</sup> Street
- i) Phase IX: Newton Avenue from S 44<sup>th</sup> Street to S 45<sup>th</sup> Street
- j) Phase X: Z Street from S 43<sup>rd</sup> Street to S 45<sup>th</sup> Street

2. When installing pipelines within the City's streets, for the following streets, the total time allowed for the completion of Work shall not exceed **10 Working Days** per 500 feet of pipeline installation:

- a) Beta Street from Birch Street to 39<sup>th</sup> Street
- b) Birch Street from Beta Street to Vesta Street
- c) Acacia Street from Beta Street to Vesta Street
- d) Una Street from Acacia Street to Birch Street
- e) Vesta Street from Acacia Street to Birch Street
- f) 38<sup>th</sup> Street from Alpha Street to Acacia Street
- g) Dalbergia Street from Thor Street to Woden Street
- h) Thor Street from Main Street to Dalbergia Street
- i) Una Street from Main Street to Dalbergia Street
- j) Vesta Street from Main Street to Dalbergia Street
- k) Woden Street from Main Street to Dalbergia Street
- l) San Miguel Avenue
- m) Alley from S 42<sup>nd</sup> Street to San Pasqual Street
- n) Newton Avenue from End of Newton Avenue to S 45<sup>th</sup> Street
- o) Z Street from S 43<sup>rd</sup> Street to S 45<sup>th</sup> Street

### 306-1.2

#### Phased Paving.

1. You shall implement phased paving, when directed and approved by the Engineer.
2. The Engineer will notify you when you can proceed with phased paving Work. Each phase shall be completed within **90 Calendar Days** after the Engineer's notification. Plan and schedule your Work accordingly to ensure each phase is complete.
3. When Phased Paving is initiated, the following Work shall be completed within the determined areas:
  - a) Installation of mains and appurtenances.
  - b) Operational checks and testing.
  - c) Mains are in service.
  - d) Trench restoration.
  - e) Road surface preparatory Work.
  - f) Installation of concrete sidewalks and curb ramps.
  - g) Adjustments of gate valves and manholes, survey monuments and utility boxes.
4. You may propose to change the limits of the determined phasing, in writing, for the Engineer's review and approval. If approved, there shall be no additional costs to the City. No additional Working Days will be granted for delays due to the City's review and approval of your proposed change and due to the implementation of that proposed change.
5. You may use multiple crews to complete each phase of paving.

#### ADD:

### 306-1.2.1

#### Payment.

1. The payment for all Work associated with Phased Paving shall be included in the Bid item for each "Phased Paving" area. This payment shall include the costs for all mobilization and demobilization for resurfacing and striping associated with each paving phase regardless of the paving operation. No additional payment shall be made regardless of the number of mobilizations and demobilizations required to complete that phase.

### 306-3.3

**Removal and Abandonment of Existing Conduits and Structures.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. For 6 inch (152.4 mm) and larger conduits, abandoned pipe shall be filled with sand or CLSM in accordance with 201-6, "CONTROLLED LOW STRENGTH MATERIAL (CLSM)".

**306-7.8.2.1 General.** To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. Pressure testing of pipe and fittings at the lowest elevation shall be performed at 150% of the specified test pressure and no less than 100% of the specified test pressure at the highest elevation.
  - a) Specified test pressure for Class 235 pipe shall be 150 psi and is tested at 225 psi.
  - b) Specified test pressure for Class 305 pipe shall be 200 psi and is tested at 300 psi.

**ADD:**

**306-8.5.4 High Deflection Coupling.**

1. High deflection couplings shall be constructed in accordance with the Plans and Reference Specifications. Working Drawings prepared by a Civil or Structural Engineer registered in the State of California shall be submitted in accordance with 3-8.2, "Working Drawings" for any proposed additional high deflection couplings not indicated on the Plans and Reference Specifications.

**306-8.8.3 Thrust Blocks and Anchor Blocks.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Thrust blocks shall be installed at all bends, tees, dead-ends, and reducers. The use of restrained joints requires approval from the Engineer. The thrust blocks shall be constructed as follows:
  - a) Thrust blocks shall be constructed of concrete conforming to 201-1, "PORTLAND CEMENT CONCRETE".
  - b) Unless otherwise shown on the Plans, concrete thrust blocks shall be constructed in accordance with SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION and the Standard Drawings.
  - c) Concrete blocks shall be constructed between undisturbed ground and fittings to be anchored.
  - d) Unless otherwise shown on the Plans, the quantity of concrete and the bearing area of the pipe against undisturbed soil shall be as shown on the Standard Drawings.
  - e) Unless otherwise shown on the Plans, concrete shall be placed so pipe joints and fittings remain accessible to repairs.

**306-8.9.2.3 Allowable Leakage.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. For prefabricated pressure pipe testing requirements, refer to prefabricated gravity pipe pressure testing requirements in 306-7.8.2, "Pressure Testing and Leakage Inspection".

**306-8.9.4.5 Dichlorination and Flushing.** To the "GREENBOOK", ADD the following:

1. When you are required to flush water mains using a 4-inch or larger meter, you shall provide a submittal to the Engineer for review of the proposed connection point of the meter and a plan demonstrating how flushed water will be captured or delivered down the storm drain or sewer system.
2. Once the submittal has been approved, you shall be responsible for coordinating the payment for this meter at Development Services Department by filling out the DSD form for the need for a construction meter for flushing purposes. Once paid by you, call Public Utilities Department Coordination Number at 619-527-7424 to coordinate the delivery and use of the meter in accordance to the approved submittal.
3. You shall return the meter to the City at the completion of work.
4. The payment for the meter cost shall be reimbursed under the allowance Bid item for "**4-Inch or Larger Meter for Construction Flushing**". All other costs associated with the purchase of the meter shall be included in the contract price. Costs associated with flushing operations shall be included under the costs for the pipeline installation.

**306-15.6 Hydrants.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The payment for fire hydrant assembly and marker, fire service connection, assembly and backflow preventer, and fire service connection and assembly, shall be included in the Bid items for the following:
  - a) Fire Hydrant Assembly and Marker
  - b) Fire Service Connection, Assembly, and Backflow Preventer for City Property
  - c) Fire Service Connection and Assembly
2. Removal of existing fire hydrants within the trench limits and all appurtenant Work shall be included in the Bid item for "Fire Hydrant Assembly and Marker".
3. Removal of existing fire hydrants outside of the trench limits and all appurtenant Work shall be included in the Bid item for "Removal or Abandonment of Existing Water Facilities" in accordance with 306-3.3.4, "Payment".
4. Payment for fire hydrant discs shall be included in the Bid item for "Fire Hydrant Assembly and Marker"

**306-15.8 Pipeline Appurtenances.** To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. Payment for water meter boxes and meter box lids shall be included in the Bid item for "Water Services" unless a Bid item for each "Meter Box" has been provided. Payment shall include any additional adjustment to place the box around the meter to ensure the valve is accessible and operating properly (including adjusting the water service pipe beyond the meter box).

**306-18.5 Video Inspection Submittals.** To the "WHITEBOOK", item 1, subsection "h", DELETE in its entirety and SUBSTITUTE with the following:

- h) **Post-rehabilitation Videos** - Post-rehabilitation videos shall be submitted within 30 Calendar Days of the completion of the Work in phases not to exceed 2 mile increments. The final video recording shall clearly show the condition of the liner with ends sealed at the manholes, service laterals, 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.

**306-18.7 Payment.** To the "WHITEBOOK", ADD following:

- 5. The payment for post-rehabilitation videos shall be included in the associated Bid items provided, regardless of the number of phased videos required at 2-mile increments.

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

**314-4.4.5 Measurement.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

- 1. Thermoplastic traffic striping for continental crosswalks shall be measured by the square foot for the actual area covered with thermoplastic.

## **SECTION 402 – UTILITIES**

**402-2 PROTECTION.** To the "WHITEBOOK", item 2, ADD the following:

- g) Refer to **Appendix O - Advanced Metering Infrastructure (AMI) Device Protection** for more information on the protection of AMI devices.

**402-7.2 Pipe Separations.** To the "WHITEBOOK", item 1, subsection "a", DELETE in its entirety and SUBSTITUTE with the following:

- a) You shall notify the Engineer immediately if:
  - i. 1 foot (0.3 m) vertical separation as measured from the outside of pipe wall to the outside of pipe wall between sewer and water mains cannot be maintained.
  - ii. 10 feet (3.0 m) horizontal separation as measured from the outside of pipe wall to the outside of pipe wall between sewer and water mains cannot be maintained.
  - iii. 6 inches (152.4 mm) vertical separation as measured from the outside of pipe wall to the outside of pipe wall between utilities other than sewer and water mains cannot be maintained.
  - iv. 3 feet (0.9 m) or more of cover over the top of the water main cannot be maintained.
  - v. 5 feet (1.5 m) or more of cover over the top of the recycled water main cannot be maintained.



**402-8**

**PAYMENT.** To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. With the Resident Engineer's approval, compensation for each existing utility pothole that is not shown on the Plans but marked out by USA shall be included in the Bid item for "Potholing Existing Utilities Not Shown on Plans (Depth up to 7 feet)". Potholing for existing utilities that have been shown on the Plans shall be included in the Contract Price.

**SECTION 500 - PIPELINE REHABILITATION**

**500-1**

**GENERAL.** To the "WHITEBOOK", ADD the following:

4. Any Cured-in-Place Pipe (CIPP) lining Work within a 1000-foot radius from school areas shall first be coordinated with the school and shall be performed outside of school hours at no expense to the City.

**500-2.1**

**Initial Submittals.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall submit the following required information at the time of Bid Opening:
  - a) Contractor's Experience and Past Project Documentation.
    - i. You shall submit documentation that you have performed similar main rehabilitation projects (of scope and size) successfully within the last 10 years in the United States. The scope shall include the same product, installation, and curing. The proposed product shall have at least 5 years or more of documented performance records.
    - ii. Your superintendent shall be assigned full time to this project and shall be present at the Site while Work is being performed. If CIPP is used, the superintendent shall have documentation conveying experience with the proposed resin and felt combination used and the installation of the proposed lateral sealing system with the pipe lining system.
  - b) Authorized Installer.
    - i. The installation of the lining system shall be performed by a contractor authorized, certified, or both by the manufacturer or owner of the process.
    - ii. You shall submit a copy of the authorizations, certifications, or both from all manufacturers listed on the City's Approved Material List (AML) that will be used for the Work that includes the name, address, point of contact, and telephone number of the manufacturer.

## SECTION 600 - ACCESS

### 600-1

**GENERAL.** To the "WHITEBOOK", item 5, DELETE in its entirety and SUBSTITUTE with the following:

5. You shall notify Environmental Services Department via email ([trash@sandiego.gov](mailto:trash@sandiego.gov)) of street closures affecting the regular scheduled solid waste collection at least 3 Working Days prior to the street closure. Include your business name and phone number, days of closure, time of scheduled closure, and date of anticipated street reopening in the notification.
  - a) You shall verify waste collection schedules via the Environmental Services website at:  
<http://www.sandiego.gov/environmental-services/collection/index.shtml>
  - b) You shall comply with the following requirements for trash, recycling, and yard waste collection:
    - i. Provide advance written notice to every property affected by blocked public right of way.
    - ii. Coordinate the relocation of trash, recycling, and yard waste containers to an accessible public street for the City's waste collection crews on collection day.
    - iii. When necessary, relocate the containers from the blocked streets to the accessible public right of way before the City's collection vehicles arrive to assist with collection on existing schedules. Return the containers to their point of origin to ensure the accuracy of inventory assignment by address.
  - c) If the City's crews are unable to provide the citizens with the mandated services due to your failure to comply with these specifications, you shall collect trash, recyclables, and yard waste on the City's schedule and deliver to the City's designated locations. If you fail to perform this Work, you shall incur additional costs for the City to reschedule pick up of an area.

## SECTION 601 - TEMPORARY TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES

### 601-2.1.4

**Traffic Control for Resurfacing and Slurry Sealing.** To the "WHITEBOOK", item 3, subsection "d", DELETE in its entirety and SUBSTITUTE with the following:

- d) Place "NO PARKING - TOW-AWAY ZONE" signs 72 hours in advance of the scheduled slurry sealing. Reschedule street block segments which are not completed by the last posted Working Day. If a Work delay of 48 hours or more occurs from the originally scheduled Work date, remove the "NO PARKING - TOW-AWAY ZONE" signs for a minimum of 24 hours, then reset and re-post for the appropriate Work date.

**601-3.5.1**      **General.** To the “WHITEBOOK”, item 3, DELETE in its entirety and SUBSTITUTE with the following:

3.      Temporary “No Parking” and “No Stopping” signs shall be installed 72 hours before enforcement. Temporary “No Parking” and “No Stopping” signs shall be installed and removed as specified in the Special Provisions. Signs shall indicate specific days, dates, and times of restrictions. If violations occur, call Police Dispatch 619-531-2000 to enforce the Tow-Away notice.

**601-3.6**      **Channelizing Devices.** To the “WHITEBOOK”, item 4, Barricades, ADD the following:

- h)      You shall place “OPEN TRENCH” signs (C27(CA)) on Type 3 Barricade within the construction Work zone, ahead of any Work areas with open trenches that are greater than 3 inches in depth, in accordance with California MUTCD SECTION 6F.103 (CA). The barricades shall be placed in a continuous manner and shall prevent pedestrian, vehicular, and biker access to the open trench area.

### **SECTION 900 – MATERIALS**

**900-2.3**      **Payment.** To the “WHITEBOOK”, item 3, DELETE in its entirety and SUBSTITUTE with the following:

3.      The payment for furnishing materials for your connection, cut and plug, and cut-in Work shall cover all necessary materials (fittings and hardware, excluding valves and pipes), delivery, and unloading. The payment shall be included within the Bid item of the Work involved and no separate payment for furnishing those materials shall be made. The payment for furnishing valve and pipe materials for your connection, cut and plug, and cut-in Work shall be included in the separate Bid items for each valve and pipe.

### **SECTION 901 – INSTALLATION AND CONNECTION**

**901-1.1**      **General.** To the “WHITEBOOK”, item 2, DELETE in its entirety and SUBSTITUTE with the following:

2.      The Engineer will coordinate all interactions between you and the City Water Operations Division, the City Water Quality Laboratory, and other City organizations. Upon your request, the Engineer shall notify the City's Public Utilities Department's staff as noted below which shall be required at least 20 Working Days prior to the beginning of Work that involves shutting down pipelines, high lining, cutting, and plugging of, or making connection to the existing water mains. Unless otherwise specified on the Plans, contact the below:
  - a)      Transmission Mains (16 inches and larger) –  
            Jesus Ramos (619-527-7438)
  - b)      Distribution Mains (less than 16 inches) – (619-527-7539)
  - c)      Water Facilities – Tatyana Fikhman (619-527-7465)

**901-1.1.2.2 Start-up Procedures.** To the “WHITEBOOK”, item 2, subsection “j”, DELETE in its entirety and SUBSTITUTE with the following:

- j) In the event that the high-line piping system fails to pass the required bacteriological testing, you will be expected to help investigate and perform corrective actions if warranted by the findings and you shall re-flush and re-disinfect the lines for re-testing at no additional cost to the City. Disposal of chlorinated water for retesting shall be in accordance with the City standards and regulations. Indiscriminate disposal of chlorinated water shall not be permitted.

**901-2.2.1 General.** To the “WHITEBOOK”, item 5, DELETE in its entirety and SUBSTITUTE with the following:

- 5. The Engineer will coordinate all interactions between you and the City Water Operations Division, the City Water Quality Laboratory, and other City organizations. Upon your request, the Engineer shall notify the City's Public Utilities Department as noted below which shall be required at least 20 Working Days prior to the beginning of Work that involves shutting down pipelines, high lining, cutting, and plugging of, or making connection to the existing water mains. Unless otherwise specified on the Plans, contact the below:
  - a) Transmission Mains (16 inches and larger) – Jesus Ramos (619-527-7438)
  - b) Distribution Mains (less than 16 inches) – (619-527-7539)
  - c) Water Facilities – Tatyana Fikhman (619-527-7465) and Jesus Ramos (619-527-7438)

**901-2.2.4 Preparation for Connection.** To the “WHITEBOOK”, item 7 and 8, DELETE in its entirety and SUBSTITUTE with the following:

- 7. Upon receiving notification of a shutdown date by City Water Operations Division for your planned connection, you shall trench and steel plate the pit(s) necessary to make the connection(s) prior to the start of the scheduled shutdown to facilitate an expedient connection to the existing main. Shutdown of the water main and connection shall be completed within the timeline agreed upon and as specified by City Water Operations staff so that water is restored in accordance with the shutdown notification and as needed for operation of the water system.
- 8. If you anticipate connection operations exceed the time as identified in the notification, causes health and safety risks, or disrupts water services to the consumers, you shall notify the Engineer and the City's Station 38 at (619) 527-7500 as soon as possible for assistance to provide potable water and temporary high lines to restore water to the affected consumers.

To the “WHITEBOOK”, ADD the following:

- 12. After the connection operation (for mains or services), you shall request the Engineer notify City Water Laboratory take water samples for bacteriological

tests in accordance with Section 7 of the AWWA C651. If the test does not pass, you will be expected to help investigate and perform corrective actions if warranted by the findings.

13. Bacteriological Testing (Bac-T) sample results are valid only for 14 Calendar Days from the date the results are first made available. If any system is not placed into service within the 14 Calendar Days, then bacteriological testing shall be reinitiated.

**901-2.3.4.1 Quality Control.** To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. After the cut and plug operation, the water main and its appurtenances shall be disinfected, and field tested by you in accordance with the latest edition of AWWA C651. You shall also request the Engineer to notify the City Water Laboratory to take water samples for bacteriological tests in accordance with Section 7 of the AWWA C651. If the test does not pass, you will be expected to help investigate and perform corrective actions if warranted by the findings.

**901-2.5 Payment.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your Work for connecting to the existing system (cut-in or tie-in Work), excluding new main interconnections between various phases, shall be paid under the Bid items for the connection (cut-in or tie-in Work) and shall include the following:
  - a) Trenching, furnishing, and installing all materials and labor to complete the Work, including up to 10 feet of new water pipe
  - b) Potholing
  - c) Protecting the water main while performing the Work
  - d) Coordinating your Work with the City Forces
  - e) Coordinating with the community (community outreach)
  - f) Traffic control and construction BMPs
  - g) Pavement Restoration
2. Cut and plug Work of the existing system by you shall be paid under the Bid item for "Cut and Plug by the Contractor" and shall include coordination of Work with City Forces, any scheduling impact costs, community outreach, furnishing and installing of materials, and traffic control. Potholing and protecting the water main while performing the Work shall be included in this payment.
3. Traffic control, saw cutting the trench area, trench caps, and other spot repairs in the vicinity of the disturbed area at each restored connection shall be included in the square foot Bid item for "Pavement Restoration for Final Connection". Asphalt overlay and slurry seal Work shall be paid for under separate Bid items.

4. Interconnections between various phases of newly installed watermains shall be included in the associated pipeline bid items.

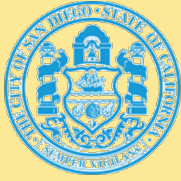
**SECTION 1001 – CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)**

**1001-1**      **GENERAL.** To the “WHITEBOOK”, ADD the following:

7.      Based on a preliminary assessment by the City, this Contract is subject to **WPCP.**
-

**APPENDIX A**

**ADDENDUM TO MITIGATED NEGATIVE DECLARATION**



THE CITY OF SAN DIEGO

# ADDENDUM TO MITIGATED NEGATIVE DECLARATION

Project No. 667612  
Addendum to MND No. 255100  
SCH No. 2011091045

**SUBJECT: AC Water and Sewer Group 1052:** The proposed scope of work would include replacement of approximately 10,437 linear feet (LF) of existing asbestos cement (AC) water mains, installation of approximately 3,991 LF new polyvinyl chloride (PVC) water mains, and abandonment of approximately 1,413 LF of AC water mains. The project would also include replacement of approximately 2,798 LF of vitrified clay (VC) sewer with PVC, installation of approximately 2,410 LF of new sewer, rehabilitation of 138 LF of existing VC sewer, and abandonment of approximately 2,186 LF of VC, concrete pipe (CP), and PVC sewer mains. The project would also include associated water services, sewer laterals, sewer lateral replumbs, manholes, curb ramps, and resurfacing of all impacted streets. The entire project is generally bound by T Street to the north, S 45<sup>th</sup> Street to the east, and Main Street to the southwest. Work would occur within the developed right-of-way, Cesar Chavez Elementary School, and developed open space managed by the City's Parks and Recreation Department. The project is partially within the Coastal Zone, Non-Appealable Area. The project is in the Barrio Logan and Southeastern San Diego Community Plan Areas, in Council Districts 8 and 9. **APPLICANT:** City of San Diego Engineering & Capital Projects Department.

## I. SUMMARY OF PROPOSED PROJECT

### **Water Improvements**

The Project will replace approximately 10,437 linear feet (LF) (1.98 miles) of existing 2-, 4-, 6-, 8-, 12- and 16-inch diameter AC water mains by open trench method within the same trench alignment at the same or shallower depth with 8-, 12-, and 16-inch PVC water mains; install 3,991 LF (0.76 miles) of new 8-, 12-, and 16-inch PVC water mains in new trench alignments by open trench method; and abandon approximately 1,413 LF (0.27 miles) of AC water main.

### **Sewer Improvements**

The Project will replace approximately 2,798 LF (0.53 miles) of existing 8- and 15-inch diameter vitrified clay (VC) and polyvinyl chloride (PVC) sewer mains by open trench method within the same trench alignment at depths ranging from 5-24 feet with 8-, 10-, 12-, and 15-inch diameter PVC sewer mains; rehabilitate 138 LF (0.03 miles) of existing VC sewer main by trenchless method; install approximately 2,410 LF (0.46 miles) of new 8-, 10-, 12-, and 15-inch



diameter PVC sewer mains in new alignments by open trench method; and, abandon 2,186 LF (0.41 miles) of existing 6-, 8-, 12-, and 15-inch diameter VC, CP, and PVC sewer mains and associated appurtenances.

### **Street Improvements**

The scope of the project will include repaving areas directly impacted by project construction and installation of curb ramps. The construction staging areas will occur in the public right-of-way.

More specific descriptions of construction methods are as follows:

**Open Trenching:** The open trench method of construction will be used for the new construction and replacement portions of the Project. Trenches are typically 3-5 feet wide and are dug with excavators and similar large construction equipment. Most of the trenching work will occur within the public right-of-way.

**Abandonment:** Pipeline abandonment activities will have minimum surface/subsurface disturbance at both ends of the mains. Disturbance would be limited to removal of manholes and exposed pipe sections.

**Rehabilitation:** Rehabilitation will be used for a portion of the existing sewer mains, lateral pipes, and manholes. This technique would seal out runoff and groundwater seepage into structurally sound pipe. Grouts have a variety of chemical formulas that are matched to be compatible with local soil conditions and pipe materials.

Prior to installing the grouting material, the pipe is thoroughly cleaned. Once the pipe is clean the grout is applied through the inside of the pipe with a machine called a packer. The grout is injected out through the pipe defect or open joint and into the surrounding soil matrix and the pipe material. The injected material bonds with the soil and pipe material forming a waterproof seal.

Once the sewer mains are grouted a similar process is used to grout the building service laterals where they connect to the sewer main. The building service laterals are grouted in the same manner as the sewer mains. The equipment used for grouting the building lateral is specialized for this purpose and is not the same as the equipment for sewer main grouting. Grouting can be accomplished in a few hours and does not disturb the ground or paving surface. Normally there will be no interruption to service.

## **II. ENVIRONMENTAL SETTING**

The *AC Water and Sewer Group 1052* project is located in the Barrio Logan and Southeastern San Diego Community Plan Areas, in Council Districts 8, and 9. The entire project is generally bound by T Street to the north, S 45<sup>th</sup> Street to the east, and Main Street to the southwest. This work would occur within the developed right-of-way, Cesar Chavez Elementary School, and developed open space managed by the City's Parks and Recreation Department. The project is partially in the Coastal Zone, Non-Appealable Area. The project is not located within or adjacent to the Multi-Habitat Planning Area (MHPA).

The project would affect the following streets: Beta Street, 39th Street, Birch Street, Una Street, Vesta Street, S 37th Street, Acacia Street, S 38th Street, Dalbergia Street, Thor Street, Woden Street, San Miguel, Avenue, Newton Avenue, Z Street, S 43rd Street, Rigel Street, S 44th Street, S 45th Street, and alleys.

See attached MND for the environmental setting for the overall Citywide Pipeline Projects.

### **III. SUMMARY OF ORIGINAL PROJECT**

A Citywide Pipelines Projects Mitigated Negative Declaration (MND) No. 255100 was prepared by the City of San Diego's Development Services Department (DSD) and was certified by the City Council on November 30, 2011 (Resolution No. 307122), hereby referenced as Citywide Pipelines MND. The Citywide Pipelines MND provides for the inclusion of subsequent pipeline projects that are located within the public right-of-way and would not result in any direct impacts to sensitive biological resources. Pursuant to the City of San Diego's Municipal Code Section 128.0306 and Section 15164(c) of State CEQA Guidelines addenda to environmental documents are not required to be circulated for public review.

### **IV. ENVIRONMENTAL DETERMINATION**

The City previously prepared and certified the Citywide Pipelines MND No. 255100 /SCH No. 2011091045. Based on all available information in light of the entire record, the analysis in this Addendum, and pursuant to Section 15162 of the State CEQA Guidelines, the City has determined the following:

- There are no substantial changes proposed in the project which will require major revisions of the previous environmental document due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- Substantial changes have not occurred with respect to the circumstances under which the project is undertaken which will require major revisions of the previous environmental document due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- There is no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous environmental document was certified as complete or was adopted, shows any of the following:
  - a. The project will have one or more significant effects not discussed in the previous environmental document;
  - b. Significant effects previously examined will be substantially more severe than

shown in the previous environmental document;

- c. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
- d. Mitigation measures or alternatives which are considerably different from those analyzed in the previous environmental would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Based upon a review of the current project, none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred. No changes in circumstances have occurred, and no new information of substantial importance has manifested, which would result in new significant or substantially increased adverse impacts as a result of the project. Therefore, this Addendum has been prepared in accordance with Section 15164 of the CEQA State Guidelines. Public review of this Addendum is not required per CEQA.

## **V. IMPACT ANALYSIS**

The following includes the project-specific environmental review pursuant to the CEQA. The Citywide Pipelines MND determined the potential to impact Historical/Cultural Resources (Archaeology, Built Environment) and Land Use (MHPA). The analysis in this document evaluates the adequacy of the MND relative to the project.

### Historical Resources (Archaeology)

#### *Citywide Pipelines MND*

The Citywide Pipelines MND concluded that pipeline projects located within the public right-of-way and city easements could result in significant environmental impacts relating to archaeological resources, and included mitigation to reduce impacts to archaeological resources to below a level of significance.

To reduce potential project impacts, to archaeological resources, to below a level of significance, excavation within previously undisturbed soil, for either new trench alignments or for replacement of pipelines within the same trench alignment occurring at a deeper depth than the previously existing pipeline, would be monitored by a qualified archaeologist or archaeological monitor and Native American monitor. Any significant archaeological resources encountered would be recovered and curated in accordance with the mitigation monitoring and Reporting Program (MMRP) detailed in Section V.

#### *Project*

City staff consulted with staff's qualified archaeologist regarding the potential for the project to impact historical resources. The project site is located in an area that is sensitive for the discovery of archaeological resources and the project will disturb previously undisturbed

soil. Therefore, archaeological and Native American monitoring will be required for ground disturbance of undisturbed soil. This monitoring will be included in the MMRP in the MND Addendum for the project. These measures are included in Section VI of this MND.

### Historical Resources (Built Environment)

#### *Citywide Pipelines MND*

The Citywide Pipelines MND concluded that pipeline projects located within the public right-of-way and city easements could result in significant environmental impacts relating to historical resources. Projects located in a historical district must incorporate mitigation to reduce impacts to the historical district to below a level of significance. This mitigation measure does not apply because the project is not in a historic designated district.

The purpose and intent of the *Historical Resources Regulations of the Land Development Code (Chapter 14, Division 3, and Article 2)* is to protect, preserve and, where damaged, restore the historical resources of San Diego. The regulations apply to all proposed development within the City of San Diego when historical resources are present on the premises. A project that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (Sections 15064.5(b) and 21084.1).

#### *Project*

The project is not located within the boundaries of any historic district or historic sites. Therefore, no impacts would occur to historical resources (built environment) as a result of the project and no mitigation is required.

### Land Use

#### *Citywide Pipelines MND*

The Citywide Pipelines MND concluded that future pipeline projects would involve replacing and installing utility infrastructure located within proximity to the City's MHPA which is covered by the MSCP Subarea Plan. No conflicts are anticipated because implementation of the MHPA Land Use Adjacency Guidelines would be required for any project located within 100 feet from the MHPA. Measures to reduce potential indirect impacts to the City's MHPA have been included in the MMRP contained within Section V of the Citywide Pipelines MND. With mitigation incorporated, impacts would be less than significant.

#### *Project*

The project would not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect. The project is not within or adjacent to the MHPA. Thus, no impact to land use would occur.

## Paleontological Resources

### *Citywide Pipelines Project MND*

The Citywide Pipelines MND analyzed paleontological resources in relation to pipeline projects, which included mitigation to reduce impacts to paleontological resources to below a level of significance. The project area is underlain by geologic formations that, with respect to paleontological fossil resource potential, are assigned a moderate and high sensitivity ratings. Based on the sensitivity of the affected formations and proposed excavation depths exceeding 10 feet, construction of subsequent pipeline projects could result in potentially significant impacts to fossil resources.

To reduce potential impacts to below a level of significance, excavation within previously undisturbed formations at a depth of 10 or more feet, for either new trench alignments and/or for replacement of pipelines within the same trench alignment occurring at a deeper depth than the previously existing pipeline, would be monitored by a qualified paleontologist or paleontological monitor. Any significant paleontological resources encountered would be recovered and curated in accordance with the mitigation monitoring and Reporting Program (MMRP) detailed in Section V of the Citywide Pipelines MND.

### *Project*

The project appears to be underlain by Very Old Paralac Deposits, Unit 6, with a high sensitivity for paleontological resources. Project excavation would exceed 1,000 cubic yards and 10 feet in depth, thus Paleontological resources monitoring shall be required in accordance with the General Grading Guidelines for Paleontological Resources in the Land Development Manual. Monitoring is required to comply with San Diego Municipal Code section 142.0151 and would reduce potentially significant impacts to paleontological resources to a less than significant level. No mitigation is required.

### Summary

Based on the foregoing analysis and information, there is no evidence that the project would require a major change to the Mitigated Negative Declaration. The project would not result in any new significant impact, nor would a substantial increase in the severity of impacts from that described in the Mitigated Negative Declaration result.

## **VI. MITIGATION, MONITORING, AND REPORTING PROGRAM (MMRP) INCORPORATED INTO THE PROJECT**

### **Historical Resources (Archaeology)**

#### **I. Prior to Permit Issuance or Bid Opening/Bid Award**

##### **A. Entitlements Plan Check**

1. Prior to permit issuance or Bid Opening/Bid Award, whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Archaeological Monitoring and Native American monitoring have

been noted on the applicable construction documents through the plan check process.

- B. Letters of Qualification have been submitted to ADD
  - 1. Prior to Bid Award, the applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the 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 meet the qualifications established in the HRG.
  - 3. Prior to the start of work, the applicant must obtain written approval from MMC for any personnel changes associated with the monitoring program.

## 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 Coastal 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 ¼ 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, Native American consultant/monitor (where Native American resources may be impacted), Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified Archaeologist and Native American Monitor 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
  - a. Prior to the start of any work that requires monitoring, the PI shall submit an Archaeological Monitoring Exhibit (AME) (with verification that the AME has been reviewed and approved by the Native American consultant/monitor when Native American resources may be impacted) based on the appropriate construction documents (reduced to 11x17) to MMC identifying the areas to be monitored

- including the delineation of grading/excavation limits.
- b. 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).
- c. MMC shall notify the PI that the AME has been approved.
- 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., which may reduce or increase the potential for resources to be present.
- 5. Approval of AME and Construction Schedule
 

After approval of the AME by MMC, the PI shall submit to MMC written authorization of the AME and Construction Schedule from the CM.

### III. During Construction

- A. Monitor Shall be Present During Grading/Excavation/Trenching
  - 1. The Archaeological Monitor shall be present full-time during all soil disturbing and grading/excavation/trenching activities which could result in impacts to archaeological resources as identified on the AME. The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the AME.
  - 2. The Native American consultant/monitor shall determine the extent of their presence during soil disturbing and grading/excavation/trenching activities based on the AME and provide that information to the PI and MMC. If prehistoric resources are encountered during the Native American consultant/monitor's absence, work shall stop and the Discovery Notification Process detailed in Section III.B-C and IV.A-D shall commence.
  - 3. The PI may submit a detailed letter to MMC during construction requesting a modification to the monitoring program when a field condition such as modern disturbance post-dating the previous grading/trenching activities, presence of fossil formations, or when native soils are encountered that may reduce or increase the potential for resources to be present.
  - 4. The archaeological and Native American consultant/monitor shall document field activity via the Consultant Site Visit Record (CSV). The CSV's shall be emailed 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.
- B. Discovery Notification Process
  - 1. In the event of a discovery, the Archaeological Monitor shall direct the contractor to temporarily divert all soil disturbing activities, including but not limited to digging,

trenching, excavating or grading activities in the area of discovery and in the area reasonably suspected to overlay adjacent resources 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 email with photos of the resource in context, if possible.
  4. No soil shall be exported off-site until a determination can be made regarding the significance of the resource specifically if Native American resources are encountered.
- C. Determination of Significance
1. The PI and Native American consultant/monitor, where Native American resources are discovered 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. 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. Note: If a unique archaeological site is also an historical resource as defined in CEQA Section 15064.5, then the limits on the amount(s) that a project applicant may be required to pay to cover mitigation costs as indicated in CEQA Section 21083.2 shall not apply.
      - (1). Note: For pipeline trenching and other linear projects in the public Right-of-Way, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."
    - c. If the 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 and other linear projects in the public Right-of-Way, 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 and other linear projects in the public Right-of-Way, if significance cannot 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 and other Linear Projects in the Public Right-of-Way.

The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities or for other linear project types within



the Public Right-of-Way 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 no soil shall be exported off-site until a determination can be made regarding the provenance of the human remains; and the following procedures as set forth in CEQA Section 15064.5(e), 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) of the Development Services Department to assist with the discovery notification process.
  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, will determine the need for a field examination to determine the provenience.
  3. If a field examination is not warranted, the Medical Examiner will 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 will notify the Native American Heritage Commission (NAHC) within 24 hours. By law, **ONLY** the Medical Examiner can make this call.
  2. NAHC will immediately identify the person or persons determined to be the Most Likely Descendent (MLD) and provide contact information.

3. The MLD will contact the PI within 24 hours or sooner after the Medical Examiner has completed coordination, to begin the consultation process in accordance with CEQA Section 15064.5(e), the California Public Resources and Health & Safety Codes.
  4. The MLD will have 48 hours to make recommendations to the property owner or representative, for the treatment or disposition with proper dignity, of the human remains and associated grave goods.
  5. Disposition of Native American Human Remains will be determined between the MLD and the PI, and, if:
    - a. The NAHC is unable to identify the MLD, OR the MLD failed to make a recommendation within 48 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, THEN
    - c. To protect these sites, the landowner shall do one or more of the following:
      - (1) Record the site with the NAHC;
      - (2) Record an open space or conservation easement; or
      - (3) Record a document with the County.
    - d. Upon the discovery of multiple Native American human remains during a ground disturbing land development activity, the landowner may agree that additional conferral with descendants is necessary to consider culturally appropriate treatment of multiple Native American human remains. Culturally appropriate treatment of such a discovery may be ascertained from review of the site utilizing cultural and archaeological standards. Where the parties are unable to agree on the appropriate treatment measures the human remains and items associated and buried with Native American human remains shall be reinterred with appropriate dignity, pursuant to Section 5.c., above.
- 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 San Diego Museum of Man for analysis. The decision for internment of the human remains shall be made in consultation with MMC, EAS, the applicant/landowner, any known descendant group, and the San Diego Museum of Man.

**V. Night and/or Weekend Work**

- A. If night and/or weekend work is included in the contract
  1. When night and/or weekend work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
  2. The following procedures shall be followed.
    - a. No Discoveries  
In the event that no discoveries were encountered during night and/or weekend work, the PI shall record the information on the CSV and submit to MMC via email by 8AM of the next business day.
    - 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. Discovery of human remains shall always be treated as a significant discovery.

- c. Potentially Significant Discoveries  
If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction and IV-Discovery of Human Remains shall be followed.
  - d. The PI shall immediately contact the RE and MMC, or by 8AM of the next business day to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.
- B. If night and/or weekend work becomes necessary during the course of construction
- 1. The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
  - 2. The RE, or BI, as appropriate, shall notify MMC immediately.
- C. All other procedures described above shall apply, as appropriate.

## VI. Post Construction

- A. Submittal of Draft Monitoring Report
- 1. The PI shall submit two copies of the Draft Monitoring Report (even if negative), prepared in accordance with the Historical Resources Guidelines (Appendix C/D) 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. It should be noted that if the PI is unable to submit the Draft Monitoring Report within the allotted 90-day timeframe as a result of delays with analysis, special study results or other complex issues, a schedule shall be submitted to MMC establishing agreed due dates and the provision for submittal of monthly status reports until this measure can be met.
    - 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. When applicable to the situation, the PI shall include written verification from the Native American consultant/monitor indicating that Native American resources were treated in accordance with state law and/or applicable agreements. If the resources were reinterred, verification shall be provided to show what protective measures were taken to ensure no further disturbance occurs in accordance with Section IV – Discovery of Human Remains, Subsection C.
  3. 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.
  4. The RE or BI, as appropriate shall obtain signature on the Accession Agreement and shall return to PI with copy submitted to MMC.
  5. The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE or BI and MMC.
- D. Final Monitoring Report(s)
1. The PI shall submit one copy of the approved Final Monitoring Report to the RE or BI as appropriate, and one copy to MMC (even if negative), within 90 days after notification from MMC of the approved report.
  2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.

## VII. IMPACT SIGNIFICANCE

The MND identified that all impacts would be mitigated to below a level of significance through mitigation. This Addendum also identifies that all significant project impacts would be mitigated to below a level of significance, consistent with the previously certified MND.

## VIII. CERTIFICATION

Copies of the addendum, the adopted MND, and the Mitigation Monitoring and Reporting Program, and associated project-specific technical appendices, if any, may be reviewed online at [www.sandiego.gov/ceqa](http://www.sandiego.gov/ceqa), or purchased for the cost of reproduction.



Jamie Kennedy, Senior Planner  
Development Services Department

October 5, 2020

Date of Final Report

Analyst: Jamie Kennedy

Attachments:

Figure 1: Location Map

Mitigated Negative Declaration No. 255100/SCH No. 2011091045

## **VIII. REFERENCES**

City of San Diego, AC Water & Sewer Group 793 60% Design Plans

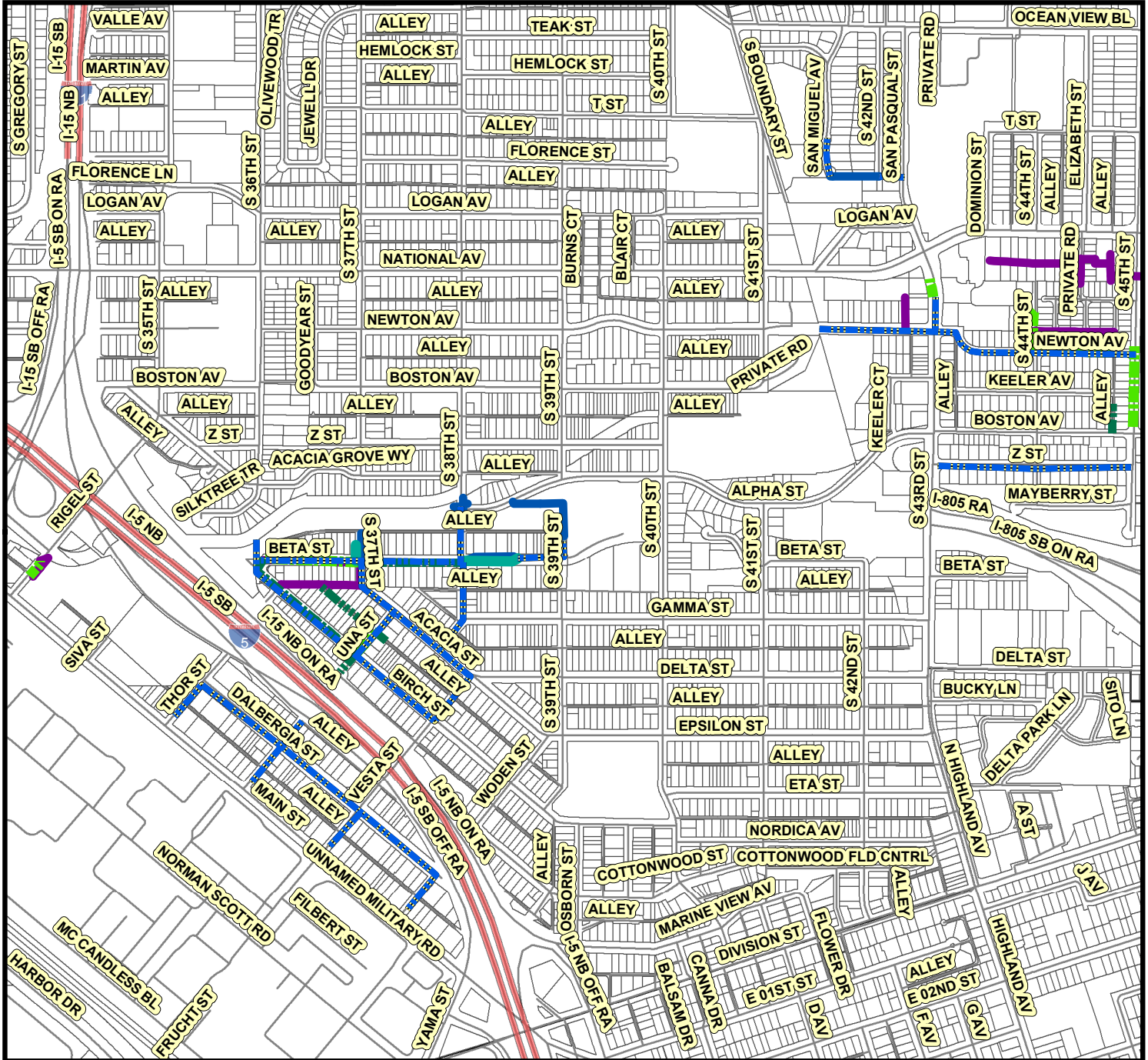
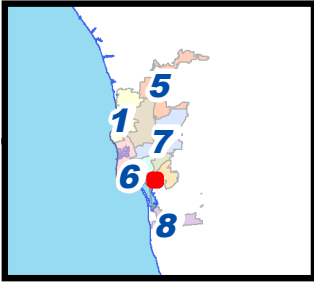
### AC WATER & SEWER GROUP 1052

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**Legend** SOUTHEASTERN BARRIO LAGAN

Date: 5/21/2020

- ▬▬▬ Replace Water
- ▬▬▬ New Water
- ▬▬▬ Abandon Water
- ▬▬▬ Replace Sewer
- ▬▬▬ New Sewer
- ▬▬▬ Abandon Sewer
- ▬▬▬ Rehab Sewer



COMMUNITY NAME: SOUTHEASTERN SAN DIEGO      C D: 8 & 9      SAP ID: B18096 (S) \ B18092 (W)



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

4. **POLICY**

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

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

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11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
  12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
  13. The outlet shall have a 2 ½ “National Standards Tested (NST) fire hydrant male coupling.
  14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

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

Process for Issuance

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

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

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

#### 4.7 Relocation of Existing Fire Hydrant Meters

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

#### 4.8 Disconnection of Fire Hydrant Meter

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

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for removal of the meter.

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

5. **EXCEPTIONS**

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

6. **MOBILE METER**

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

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

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

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

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

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

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

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7. **FEE AND DEPOSIT SCHEDULES**

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

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

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

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



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

**Water Department Director**

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

#### APPENDIX

**Administering Division:** Customer Support Division

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

**Distribution:** DI Manual Holders



# Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

## Meter Information

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

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) <u>Zip:</u>	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, if so, explain:		
Estimated Duration of Meter Use: <input type="text"/>	<input type="checkbox"/>	Check Box if Reclaimed Water

## Company Information

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

<b>Fire Hydrant Meter Removal Request</b>	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ( )	Pager: ( )

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter
Contract Acct #:	Deposit Amount: <b>\$ 936.00</b> Fees Amount: <b>\$ 62.00</b>
Meter Serial #	Meter Size: <b>05</b> Meter Make and Style: <b>6-7</b>
Backflow #	Backflow Size: Backflow Make and Style:
Name:	Signature: Date:

**WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER**

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

**Note:**

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

Date

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

Subject:           Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

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

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

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

Sincerely,

Water Department

**APPENDIX 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. Water stops (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 down drains, 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 WITH CASH FLOW FORECAST**

City of San Diego, CM&FS Div., 9753 Chesapeake Drive, SD CA 92123

**Project Name:**

Work Order No or Job Order No.  
 City Purchase Order No.  
 Resident Engineer (RE):  
 RE Phone#: Fax#:

**Contractor's Name:**

Contractor's Address:  
  
 Contractor's Phone #:  
 Contractor's fax #:  
 Contact Name:

**Invoice No.:**

**Invoice Date:**  
 Billing Period: ( To )

Item #	Item Description	Contract Authorization				Previous Totals To Date		This Estimate		Totals to Date	
		Unit	Price	Qty	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1					\$ -		\$ -		\$ -	0.00%	\$ -
2					\$ -		\$ -		\$ -	0.00%	\$ -
3					\$ -		\$ -		\$ -	0.00%	\$ -
4					\$ -		\$ -		\$ -	0.00%	\$ -
5					\$ -		\$ -		\$ -	0.00%	\$ -
6					\$ -		\$ -		\$ -	0.00%	\$ -
7					\$ -		\$ -		\$ -	0.00%	\$ -
8					\$ -		\$ -		\$ -	0.00%	\$ -
5					\$ -		\$ -		\$ -	0.00%	\$ -
6					\$ -		\$ -		\$ -	0.00%	\$ -
7					\$ -		\$ -		\$ -	0.00%	\$ -
8					\$ -		\$ -		\$ -	0.00%	\$ -
9					\$ -		\$ -		\$ -	0.00%	\$ -
10					\$ -		\$ -		\$ -	0.00%	\$ -
11					\$ -		\$ -		\$ -	0.00%	\$ -
12					\$ -		\$ -		\$ -	0.00%	\$ -
13					\$ -		\$ -		\$ -	0.00%	\$ -
14					\$ -		\$ -		\$ -	0.00%	\$ -
15					\$ -		\$ -		\$ -	0.00%	\$ -
16					\$ -		\$ -		\$ -	0.00%	\$ -
17	Field Orders				\$ -		\$ -		\$ -	0.00%	\$ -
					\$ -		\$ -		\$ -	0.00%	\$ -
	<b>CHANGE ORDER No.</b>				\$ -		\$ -		\$ -	0.00%	\$ -
					\$ -		\$ -		\$ -	0.00%	\$ -
	Total Authorized Amount (including approved Change Order)				\$ -		\$ -		\$ -	<b>Total Billed</b>	\$ -

**SUMMARY**

A. Original Contract Amount	\$ -
B. Approved Change Order #00 Thru #00	\$ -
C. Total Authorized Amount (A+B)	\$ -
D. Total Billed to Date	\$ -
E. Less Total Retention (5% of D)	\$ -
F. Less Total Previous Payments	\$ -
<b>G. Payment Due Less Retention</b>	<b>\$0.00</b>
H. Remaining Authorized Amount	\$0.00

I certify that the materials  
 have been received by me in  
 the quality and quantity specified

Resident Engineer

Construction Engineer

**Retention and/or Escrow Payment Schedule**

Total Retention Required as of this billing (Item E)	\$0.00
Previous Retention Withheld in PO or in Escrow	\$0.00
<b>Add'l Amt to Withhold in PO/Transfer in Escrow:</b>	<b>\$0.00</b>
<b>Amt to Release to Contractor from PO/Escrow:</b>	

Contractor Signature and Date: \_\_\_\_\_

NOTE: CONTRACTOR TO CALCULATE TO THE 2ND DECIMAL PLACE.



WBS #:	B18108
Date Submitted:	10/10/2018
NTP Date:	3/23/2018
Final Statement of WD Date:	5/23/2020
Contract #:	K-XX-XXXX-XXX-X
Contract Amount:	\$5,617,000

## Construction Cash Flow Forecast

"Sewer and Water Group Job 965 (W)"

Year	January	February	March	April	May	June	July	August	September	October	November	December
2018				15,000	25,000	52,000	52,000	100,000	10,000	100,000	100,000	100,000
2019	10,000	10,000	85,000	58,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	1,000,000
2020	100,000	100,000	100,000	1,000,000	1,000,000							
2021												
2022												
2023												
2024												
2025												

SAMPLE REFERENCE

**APPENDIX E**  
**LOCATION MAP**

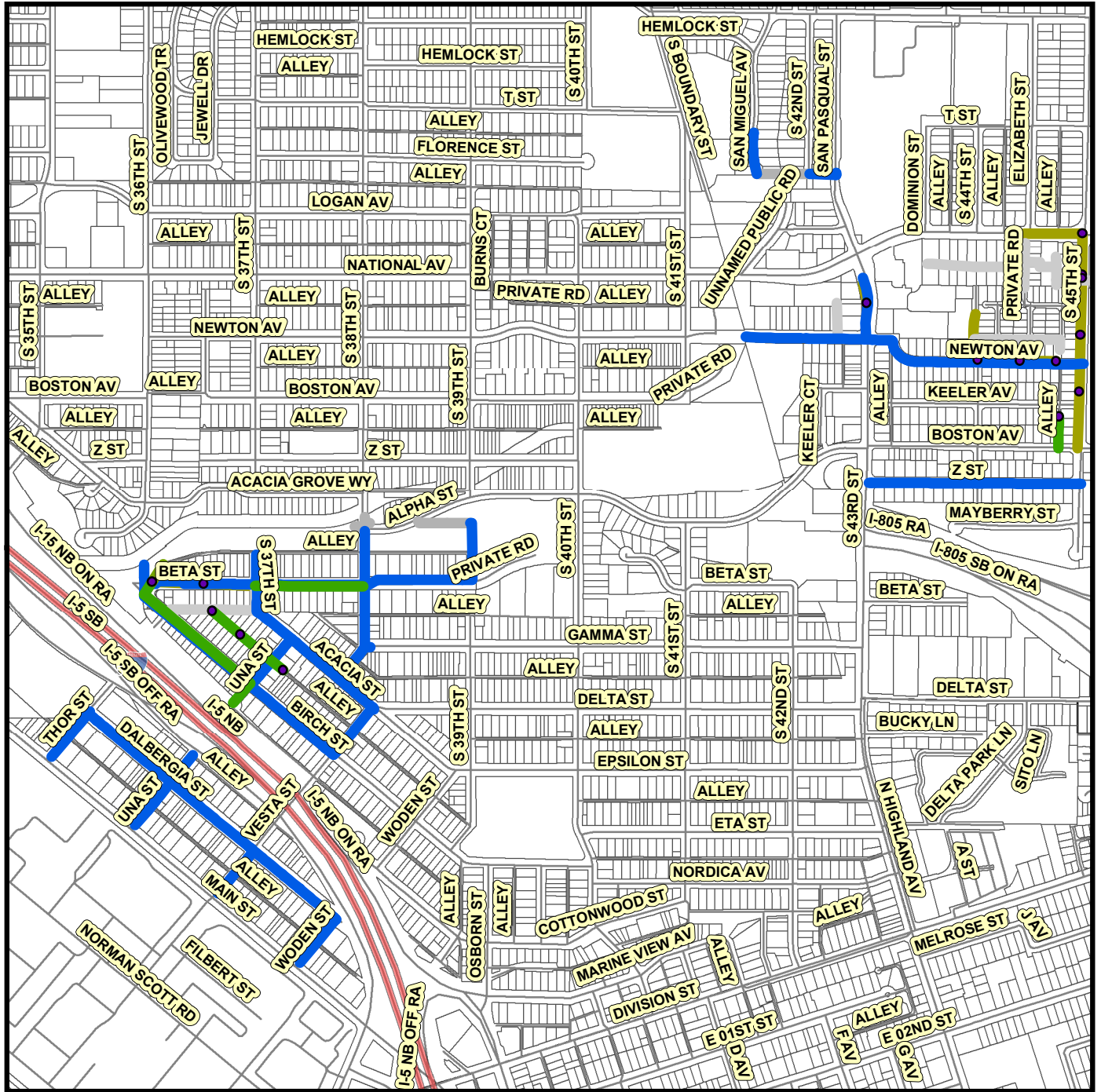
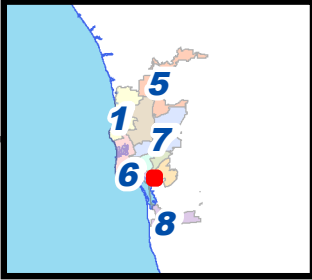
**AC WATER & SEWER GROUP JOB 1052**

SENIOR ENGINEER  
JANICE JARO  
619-533-3851

PROJECT MANAGER  
JOSHUA ADELMAN  
619-533-4656

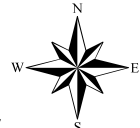
PROJECT ENGINEER  
JING DEBELISO  
619-533-5285

FOR QUESTIONS ABOUT THIS PROJECT  
Call: 619-533-4207  
Email: [engineering@san Diego.gov](mailto:engineering@san Diego.gov)



**Legend**

- Replace Water
- New MH
- Abandon Sewer
- Rehab Sewer
- New Water
- Abandon Water
- New Sewer
- Replace Sewer



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**APPENDIX F**  
**ADJACENT PROJECT MAP**

# ENGINEERING & CAPITAL PROJECTS

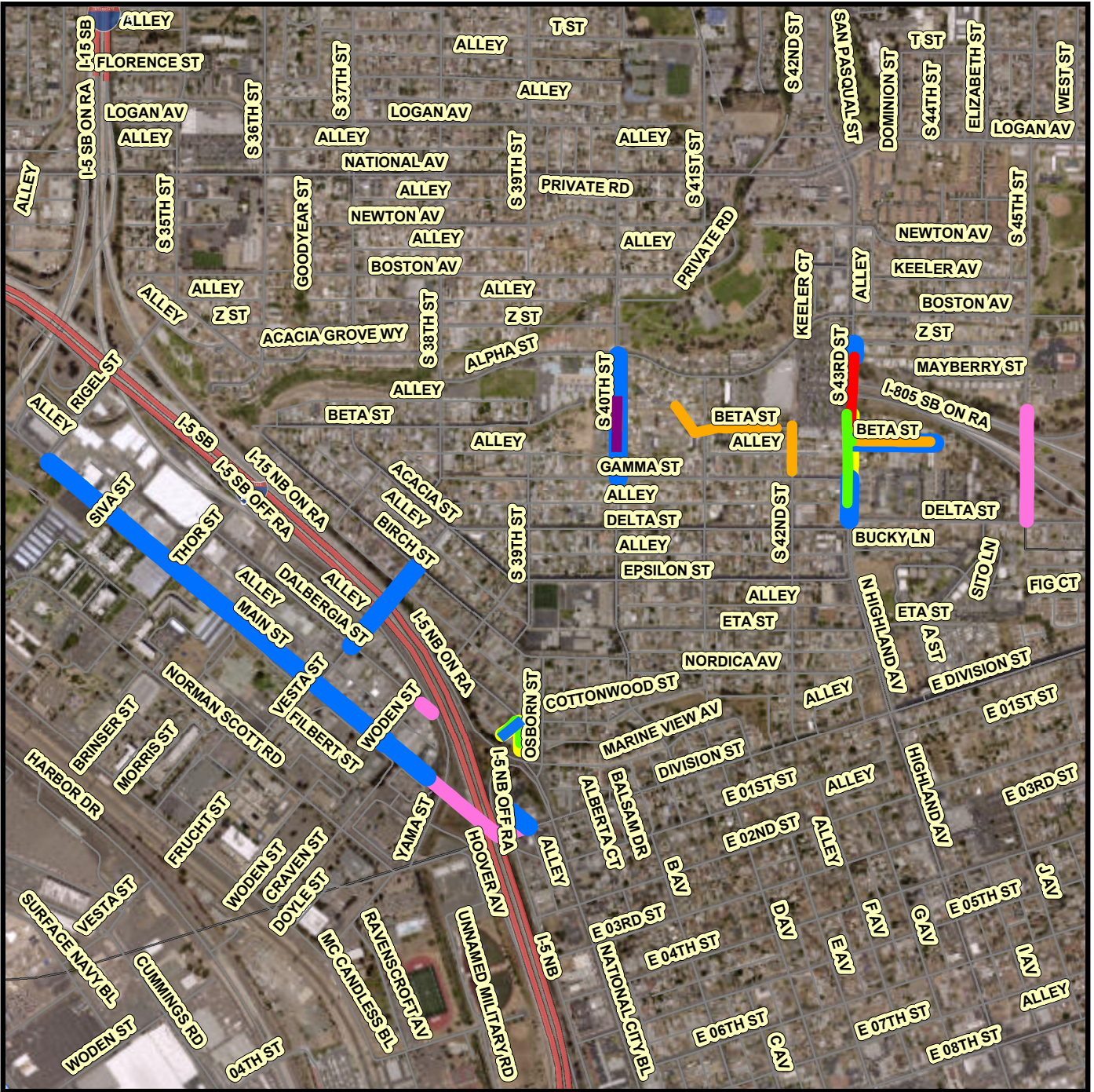
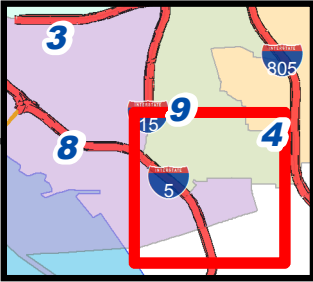
## AC WATER AND SEWER GROUP 1052 A

SENIOR ENGINEER  
Parita Ammerlahn  
619-533-5406

PROJECT MANAGER  
Shaza Nezha  
619-533-4695

PROJECT ENGINEER  
Noora Fathullah  
619-235-1977

FOR QUESTIONS ABOUT THIS PROJECT  
Call: 619-533-4207  
Email: [engineering@sandiego.gov](mailto:engineering@sandiego.gov)



### Legend

- New\_Sewer
- New\_Water
- Rehabilitation\_Sewer
- Replaced\_Sewer
- Replaced\_Water
- Abandoned\_Water
- Abandon Sewer



COMMUNITY NAME: SOUTHEASTERN SANDIEGO, BARRIO LOGAN AND MILITARY

COUNCIL DISTRICT: 8, 9

SAP ID: B-19169 (S) \ B-19166 (W)

AC Water & Sewer Group 1052 Appendix F - Adjacent Map

Date: 8/26/2020



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**APPENDIX G**

**CONTRACTOR'S DAILY QUALITY CONTROL INSPECTION REPORT**

**Appendix G**

City of San Diego  
Asphalt Concrete Overlay

**Contractor's Daily Quality Control Inspection Report**

Project Title: \_\_\_\_\_ Date: \_\_\_\_\_

Locations: 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Asphalt Mix Specification: Attached Supplier:

Dig out Locations: 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Tack Coat Application Rate @ Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Asphalt Temperature at Placement @ Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Asphalt Depth @Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Compaction Test Result @Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Location and nature of defects:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Remedial and Corrective Actions taken or proposed for Engineer's approval:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Date's City Laboratory representative was present:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Verified the following:

- 1. Proper Storage of Materials & Equipment
- 2. Proper Operation of Equipment
- 3. Adherence to Plans and Specs
- 4. Review of QC Tests
- 5. Safety Inspection

Initials:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Deviations from QCP \_\_\_\_\_ (see attached)

Quality Control Plan Administrator's Signature:

Date Signed:

\_\_\_\_\_

\_\_\_\_\_



**APPENDIX H**  
**MONTHLY DRINKING WATER DISCHARGE MONITORING FORM**

# DRINKING WATER DISCHARGE MONITORING FORM

(Use for All Discharges to the Storm Drain)

All discharge activities related to this project comply with the State Water Resources Control Board ORDER WQ 2014-0194-DWQ, STATEWIDE GENERAL NPDES PERMIT FOR DRINKING WATER SYSTEMS DISCHARGES as referenced by ([http://www.waterboards.ca.gov/water\\_issues/programs/npdes/docs/drinkingwater/final\\_statewide\\_wqo2014\\_0194\\_dwq.pdf](http://www.waterboards.ca.gov/water_issues/programs/npdes/docs/drinkingwater/final_statewide_wqo2014_0194_dwq.pdf)), and as follows:

<b>Project Name:</b>		<b>WBS No.:</b>		<b>Watershed No.</b>	
<b>Qualified Person Conducting Tests:</b>		<b>signature</b>			

BMPs MUST BE IN PLACE PRIOR TO ANY SCHEDULED DISCHARGE

By signing, I certify that all of the statements and conditions for drinking water discharge events are correct.

Event #1												
Discharge Location <sup>1</sup>	Category <sup>2</sup> (Select one)	Notification <sup>3</sup> (Select all that apply)	BMPs in Place <sup>4</sup> (Select all that apply)	Volume <sup>5</sup> (gal)	Sampling <sup>6</sup> (take samples at 10 mins, 50-60 mins & last 10 mins)				Exceedence <sup>7</sup>			Notes Report exceedence to RE & complete page 2 of 2
					Measure	Unit	Time	Result	Limit	No	Yes	
<b>Inlet Location</b>  <b>Start</b>  <b>End</b>	<b>Superchlorinated</b> <small>(Chlorine added for disinfection)</small>	<b>TSW</b> <small>(All Categories)</small>	<b>Sweep flow path</b> <small>(gutter, street, etc.)</small>	<b>Total</b>	<b>Chlorine</b>	mg/L			0.1 mg/L= Exceedence			
	<b>Large Volume</b> <small>(≥ 325,850 gal)</small>	<b>PUD</b> <small>(All Categories)</small>	<b>Dechlorination</b> <small>(diffusers, chemicals, etc.)</small>				<b>Reused</b> <small>(if any)</small>					
	<b>Well Dev/Rehab</b> <small>(Not Typical)</small>	<b>Water Board</b> <small>(Large Volume Only)</small>	<b>Inlet Protection</b>		<b>Turbidity</b>	NTU			20 NTU= Exceedence 225 NTU= Exceedence for Ocean			
	<b>Small Volume/Other</b> <small>(No Sampling Required)</small>	<b>County</b> <small>(≥100,000 gal &amp; within ¼ mile of ocean/bay; or if enters the County's MS4)</small>	<b>Erosion Controls</b>									
			<b>Sediment Controls</b>		<b>pH</b>	Unit			Range 6.5 to 8.5			

Event #2												
Discharge Location <sup>1</sup>	Category <sup>2</sup> (Select one)	Notification <sup>3</sup> (Select all that apply)	BMPs in Place <sup>4</sup> (Select all that apply)	Volume <sup>5</sup> (gal)	Sampling <sup>6</sup> (take samples at 10 mins, 50-60 mins & last 10 mins)				Exceedence <sup>7</sup>			Notes Report exceedence to RE & complete page 2 of 2
					Measure	Unit	Time	Result	Limit	No	Yes	
<b>Inlet Location</b>  <b>Start</b>  <b>End</b>	<b>Superchlorinated</b> <small>(Chlorine added for disinfection)</small>	<b>TSW</b> <small>(All Categories)</small>	<b>Sweep flow path</b> <small>(gutter, street, etc.)</small>	<b>Total</b>	<b>Chlorine</b>	mg/L			0.1 mg/L= Exceedence			
	<b>Large Volume</b> <small>(≥ 325,850 gal)</small>	<b>PUD</b> <small>(All Categories)</small>	<b>Dechlorination</b> <small>(diffusers, chemicals, etc.)</small>				<b>Reused</b> <small>(if any)</small>					
	<b>Well Dev/Rehab</b> <small>(Not Typical)</small>	<b>Water Board</b> <small>(Large Volume Only)</small>	<b>Inlet Protection</b>		<b>Turbidity</b>	NTU			20 NTU= Exceedence 225 NTU= Exceedence for Ocean			
	<b>Small Volume/Other</b> <small>(No Sampling Required)</small>	<b>County</b> <small>(≥100,000 gal &amp; within ¼ mile of ocean/bay; or if enters the County's MS4)</small>	<b>Erosion Controls</b>									
			<b>Sediment Controls</b>		<b>pH</b>	Unit			Range 6.5 to 8.5			

Instructional Notes found on the Page 2 of 2

Submit completed Form to RE

## Receiving Water Monitoring

(Complete only if limits exceed on Page 1 of 2)

<b>Event #1</b>	
1) Go to the location where the discharge enters the receiving water.	
<input type="checkbox"/> Accessible <input type="checkbox"/> Unable to Determine <input type="checkbox"/> No Safe Access	
2) If accessible, take photos and complete the visual monitoring below. If unable to determine, stop here. If no safe access, stop here.	
3) Visual Monitoring: Is the discharge into the receiving water...	
...causing erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No
...carrying floating or suspended matter	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing discoloration	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing and impact to the aquatic life present	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with visible film	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with an sheen or coating	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing potential nuisance conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) If all answers are NO, stop here.	
<b>4) If any answers are YES, Notify the RE immediately for further action</b>	

<b>Event #2</b>	
1) Go to the location where the discharge enters the receiving water.	
<input type="checkbox"/> Accessible <input type="checkbox"/> Unable to Determine <input type="checkbox"/> No Safe Access	
2) If accessible, take photos and complete the visual monitoring below. If unable to determine, stop here. If no safe access, stop here.	
3) Visual Monitoring: Is the discharge into the receiving water...	
...causing erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No
...carrying floating or suspended matter	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing discoloration	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing and impact to the aquatic life present	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with visible film	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with an sheen or coating	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing potential nuisance conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) If all answers are NO, stop here.	
<b>4) If any answers are YES, Notify the RE immediately for further action</b>	

## Instructional Notes

- 1) Log the location of the inlet or discharge point. For example: Albatross St & 5th Av. Log the start date and time and the end date and time of the discharge.
- 2) Log the discharge category. "Superchlorinated" are discharges where additional chlorine is added in order to adequately disinfect and sanitize drinking water system facilities. This does NOT include potable water containing residual chlorine from the water treatment process. "Large Volume" discharges are greater than 325,850 gallons of total volume for one event. "Well Dev/Rehab" are discharges of potable ground water from a well. This is not typical. If none of these categories apply, then select "Small Volume/Other."
- 3) Notifications of the location, date, time, category, and estimated volume of discharge must be made to the contacts and per the requirements below:

Contact	When to Notify	Email
TSW	3 days prior to all discharges	<a href="mailto:SWPPP@SanDiego.gov">SWPPP@SanDiego.gov</a>
PUD	3 days prior to all discharges	<a href="mailto:CompReports@SanDiego.gov">CompReports@SanDiego.gov</a> <a href="mailto:Rdavenport@SanDiego.gov">Rdavenport@SanDiego.gov</a>
San Diego Water Board	3 days prior to Large Volume discharges	<a href="mailto:SanDiego@WaterBoards.ca.gov">SanDiego@WaterBoards.ca.gov</a> <a href="mailto:Ben.Neill@WaterBoards.ca.gov">Ben.Neill@WaterBoards.ca.gov</a>
County of San Diego	3 days prior if 100,000 gal and within 1/4 mile of ocean/bay	DEH: <a href="mailto:Joseph.Palmer@SDCounty.ca.gov">Joseph.Palmer@SDCounty.ca.gov</a> <a href="mailto:Dominique.Edwards@SDCounty.ca.gov">Dominique.Edwards@SDCounty.ca.gov</a>
	3 days prior if enter county MS4 or unincorporated County	WPP: <a href="mailto:Nicholas.DeValle@SDCounty.ca.gov">Nicholas.DeValle@SDCounty.ca.gov</a> <a href="mailto:LUEG.Watersheds@sdcounty.ca.gov">LUEG.Watersheds@sdcounty.ca.gov</a>

- 4) At a minimum, sweep gutters prior to starting discharge and use dechlorination BMPs. The contractor and RE must monitor and determine if BMPs need to be removed or modified. For example if inlet protection is causing flooding at a storm drain inlet, contractor may elect to remove BMPs. Document any modification to BMPs in the notes
- 5) Total volume must be logged for all discharges. If discharge water is reused for other purposes such as watering a golf course, log that volume under "Reused"
- 6) Sampling is required for categories per the following table:

Category	Measure	Sample Frequency
Superchlorinated	Chlorine, Turbidity, pH	first 10 min, 50-60 min, last 10 min
Large Volume	Chlorine Turbidity	first 10 min, 50-60 min, last 10 min
Well Dev/Rehab	Chlorine Turbidity	first 10 min, 50-60 min, last 10 min
Small Volume/Other	None required	N/A

- 7) Effluent limitations must be monitored not to exceed per the following table:

Measure	Method	Limit
Chlorine	Field Measure	0.10 mg/L-Cl
Turbidity	Visual Estimate	20 NTU for inland waters
		225 NTU for ocean 100 NTU for wells
pH	Field Measure	6.5 - 8.5

**APPENDIX I**  
**HAZARDOUS WASTE LABEL/FORMS**

# HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL  
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY  
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY  
OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_ 24 HR. PHONE ( ) \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

EPA ID NO. \_\_\_\_\_ MANIFEST DOCUMENT NO. \_\_\_\_\_

EPA WASTE NO. \_\_\_\_\_ CA WASTE NO. \_\_\_\_\_ ACCUMULATION START DATE \_\_\_\_\_ / \_\_\_\_ / \_\_\_\_

CONTENTS, COMPOSITION \_\_\_\_\_

PROPER DOT SHIPPING NAME \_\_\_\_\_

TECHNICAL NAME (S) \_\_\_\_\_

UN/NA NO. WITH PREFIX \_\_\_\_\_

PHYSICAL STATE    HAZARDOUS PROPERTIES     FLAMMABLE     TOXIC  
 SOLID     LIQUID     CORROSIVE     REACTIVE     OTHER \_\_\_\_\_

**HANDLE WITH CARE!**  
CONTAINS HAZARDOUS OR TOXIC WASTES

# INCIDENT/RELEASE ASSESSMENT FORM <sup>1</sup>

## If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

### Questions for Incident Assessment:

	YES	NO
1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	<input type="checkbox"/>	<input type="checkbox"/>
2. Did anyone, other than employees in the immediate area of the release, evacuate?	<input type="checkbox"/>	<input type="checkbox"/>
3. Did the release cause off-site damage to public or private property?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the release greater than or equal to a reportable quantity (RQ)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Was there an uncontrolled or unpermitted release to the air?	<input type="checkbox"/>	<input type="checkbox"/>
6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	<input type="checkbox"/>	<input type="checkbox"/>
8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	<input type="checkbox"/>	<input type="checkbox"/>
10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

\*Call 911 in an emergency\*

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a “no” response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

<sup>1</sup> This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

# NON REPORTABLE RELEASE INCIDENT FORM

## 1. RELEASE AND RESPONSE DESCRIPTION

Incident # \_\_\_\_\_

Date/Time Discovered	Date/Time Discharge	Discharge Stopped <input type="checkbox"/> Yes <input type="checkbox"/> No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

## 2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

## 3. CHEMICAL INFORMATION

Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

**EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM**

<b>A</b>	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER ( ) -
<b>B</b>	INCIDENT DATE: MO   DAY   YR   TIME OES NOTIFIED (use 24 hr time)	OES CONTROL NO.
<b>C</b>	INCIDENT ADDRESS LOCATION	CITY / COMMUNITY COUNTY ZIP
<b>D</b>	CHEMICAL OR TRADE NAME (print or type)	CAS Number
<b>D</b>	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A <input type="checkbox"/>	CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) <input type="checkbox"/>
<b>D</b>	PHYSICAL STATE CONTAINED: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	PHYSICAL STATE RELEASED: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS
<b>D</b>	ENVIRONMENTAL CONTAMINATION: <input type="checkbox"/> AIR <input type="checkbox"/> WATER <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER	QUANTITY RELEASED: _____ TIME OF RELEASE: _____ DURATION OF RELEASE: _____ DAYS _____ HOURS _____ MINUTES
<b>E</b>	ACTIONS TAKEN	
<b>F</b>	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information) <input type="checkbox"/> ACUTE OR IMMEDIATE (explain) _____ <input type="checkbox"/> CHRONIC OR DELAYED (explain) _____ <input type="checkbox"/> NOTKNOWN (explain) _____	
<b>G</b>	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS	
<b>H</b>	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)	
<b>I</b>	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type) _____ SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____	



## **EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS**

### **GENERAL INFORMATION:**

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

### **BASIC INSTRUCTIONS:**

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

### **SPECIFIC INSTRUCTIONS:**

**Block A:** Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

**Block B:** Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

**Block C:** Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

**Block D:** Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

**Block E:** Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

**Block F:** Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

**Block G:** Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

**Block H:** List any additional pertinent information.

**Block I:** Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

### **MAIL THE COMPLETED REPORT TO:**

**State Emergency Response Commission (SERC)  
Attn: Section 304 Reports  
Hazardous Materials Unit  
3650 Schriever Avenue  
Mather, CA 95655**

**NOTE:** Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

## APPENDIX J

### REHABILITATION DATA COLLECTION - SAMPLE SEWER MAINS DATA TEMPLATE



**APPENDIX K**  
**SAMPLE ARCHAEOLOGY INVOICE**

**(FOR ARCHAEOLOGY ONLY)**

**Company Name**

**Address, telephone, fax**

**Date:** Insert Date

**To:** Name of Resident Engineer  
City of San Diego  
Construction Management and  
Field Services Division  
9573 Chesapeake Drive  
San Diego, CA 92123-1304

**Project Name:** Insert Project Name

**SAP Number (WBS/IO/CC):** Insert SAP Number

**Drawing Number:** Insert Drawing Number

**Invoice period:** Insert Date to Insert Date

**Work Completed:** Bid item Number – Description of Bid Item – Quantity – Unit Price– Amount

**Detailed summary of work completed under this bid item:** Insert detailed description of Work related to Archaeology Monitoring Bid item. See Note 1 below.

Summary of charges:

Description of Services	Name	Start Date	End Date	Total Hours	Hourly Rate	Amount
Field Archaeologist	Joe Smith	8/29/2011	9/2/2011	40	\$84	\$3,360
Laboratory Assistant	Jane Doe	8/29/2011	9/2/2011	2	\$30	\$60
Subtotal						\$3,420

**Work Completed:** Bid item Number – Description of Bid Item – Quantity – Unit Price– Amount

**Detailed summary of work completed under this bid item:** Insert detailed description of Work related to Archaeology Curation/Discovery Bid item. See Note 2 below.

Summary of charges:

Description of Services	Where work occurred (onsite vs offsite/lab)	Name	Start Date	End Date	Total Hours	Hourly Rate	Amount
Field Archaeologist		Joe Smith	8/29/2011	9/2/2011	40	\$84	\$3,360
Laboratory Assistant		Jane Doe	8/29/2011	9/2/2011	2	\$30	\$60
Subtotal							\$3,420

**Total this invoice:** \$ \_\_\_\_\_

Total invoiced to date: \$ \_\_\_\_\_

SAMPLE

Note 1:

For monitoring related bid items or work please include summary of construction work that was monitored from Station to Station, Native American monitors present, MMC coordination, status and nature of monitoring and if any discoveries were made.

Note 2:

For curation/discovery related bid items or work completed as part of a discovery and curation process, the PI must provide a response to the following questions along with the invoice:

1. Preliminary results of testing including tentative recommendations regarding eligibility for listing in the California Register of Historical Resources (California Register).
  - a. Please briefly describe your application (consideration) of all four California Register criteria.
  - b. If the resource is eligible under Criterion D, please define the important information that may be present.
  - c. Were specialized studies performed? How many personnel were required? How many Native American monitors were present?
  - d. What is the age of the resource?
  - e. Please define types of artifacts to be collected and curated, including quantity of boxes to be submitted to the San Diego Archaeological Center (SDAC). How many personnel were required? How many Native American monitors were present?
2. Preliminary results of data recovery and a definition of the size of the representative sample.
  - a. Were specialized studies performed? Please define types of artifacts to be collected and curated, including quantity of boxes to be submitted to the SDAC. How many personnel were required? How many Native American monitors were present?
3. What resources were discovered during monitoring?
4. What is the landform context and what is the integrity of the resources?
5. What additional studies are necessary?
6. Based on application of the California Register criteria, what is the significance of the resources?
  - a. If the resource is eligible for the California Register, can the resource be avoided by construction?
  - b. If not, what treatment (mitigation) measures are proposed? Please define data to be recovered (if necessary) and what material will be submitted to the SDAC for curation. Are any specialized studies proposed?

(After the first invoice, not all the above information needs to be re-stated, just revise as applicable).

**APPENDIX L**  
**SAMPLE OF PUBLIC NOTICE**





CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
• Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
• This work is anticipated to be complete in your community by December 2016.

How your neighborhood may be impacted:

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
• Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
• Parking restrictions will exist because of the presence of construction equipment and materials.
• "No Parking" signs will be displayed 72 hours in advance of the work.
• Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX



CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
• Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
• This work is anticipated to be complete in your community by December 2016.

How your neighborhood may be impacted:

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
• Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
• Parking restrictions will exist because of the presence of construction equipment and materials.
• "No Parking" signs will be displayed 72 hours in advance of the work.
• Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX

## APPENDIX M

### ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION

## Protecting AMI Devices in Meter Boxes and on Street Lights

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 402-2, "Protection", of the 2018 Whitebook.**

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

- A. Endpoints, see Photo 1:

**Photo 1**



B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:



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Network Devices, see Photo 3:

**Photo 3**



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

**Photo 4**



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

**The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document**

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

**Photo 5**

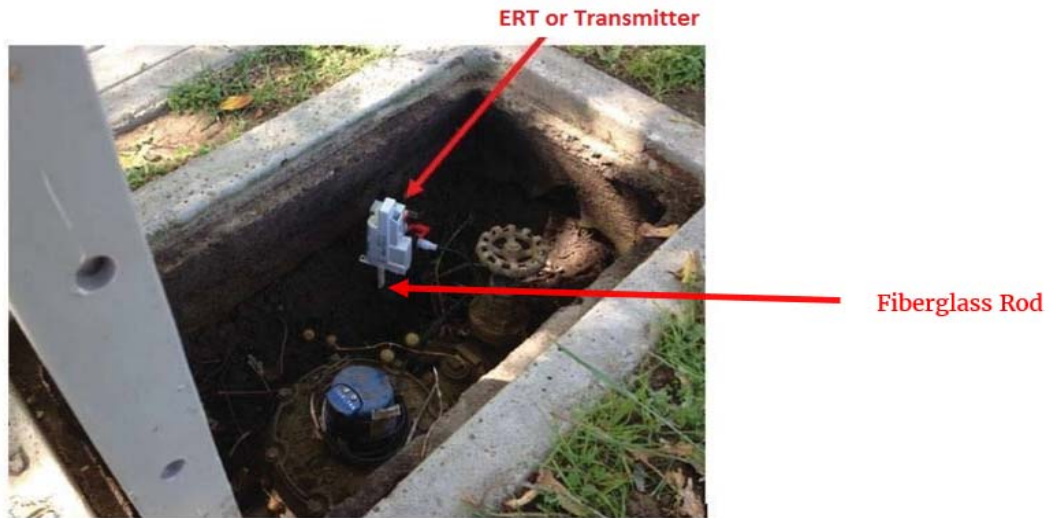


Photo 6 below is an example of disturbance that shall be avoided:

**Photo 6**



**You are responsible when working in and around meter boxes.** If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

**Photo 7**



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

**Photo 8**



**Network Device**

**Photo 9**



**If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.**



**APPENDIX N**  
**PALEO CONSTRUCTION MONITORING REQUIREMENTS**

# Paleontological Construction Monitoring Requirements

## PALEONTOLOGICAL MONITORING AND REPORTING PROGRAM (PMRP):

- I. **GENERAL REQUIREMENTS.** Post Plan Check (After permit issuance/Prior to start of construction).
  - A. **PRE CONSTRUCTION MEETING IS REQUIRED TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.**
    1. The Contractor is responsible to arrange and perform this meeting by contacting the City Resident Engineer (RE)/Construction Manager (CM) of the Construction Management and Field Engineering (CMFE) Division and City staff from Mitigation Monitoring Coordination (MMC). Attendees shall also include the Contractor's representative(s), job site superintendent, and the paleontologist.
    2. NOTE: Failure of all responsible Contractor's representatives and paleontological monitor to attend the pre-construction meeting shall require an additional focused meeting with all parties present.
    3. CONTACT INFORMATION:
      - a) The primary point of contact is the RE/CM at the CMFE Division at 858-627-3200.
      - b) For clarification of environmental requirements, call the RE/CM and MMC at 858-627-3360.
  - B. **PMRP COMPLIANCE.**
    1. This Project shall conform to the City's paleontological monitoring requirements, as further specified below, in accordance with the City of San Diego's Land Development Code – Grading Regulations, Section 142.0151, and implemented to the satisfaction of MMC and RE/CM. The requirements shall not be reduced or changed but may be annotated (i.e. to explain when and how compliance is being met and location of verifying proof, etc.). Additional clarifying information may also be added to other relevant plan sheets and/or specifications as appropriate (i.e., specific locations, times of monitoring, methodology, etc).
    2. NOTE: Contractor shall alert RE/CM and MMC if there are any discrepancies in the plans or notes, or any changes due to field conditions. All conflicts shall be approved by RE/CM and MMC before the Work is performed.
  - C. **MONITORING EXHIBIT.**
    1. Contractor Engineering and Capital Projects Department's consultant (if applicable) is required to submit, to RE/CM and MMC, a paleontological monitoring exhibit on a 11 x 17 inch reduction of the appropriate construction plan, such as site plan, grading, landscape, etc., marked to clearly show the Limits of Work, scope of that discipline's work (i.e. delineation showing work area(s) requiring paleontological monitoring), and notes indicating when in the construction schedule that work will be performed. When necessary for

clarification, a detailed methodology of how the work will be performed shall be included.

**D. OTHER SUBMITTALS AND INSPECTIONS.**

1. The Contractor or Engineering and Capital Projects Department’s consultant (if applicable) shall submit all required documentation, verification letters, and requests for all associated inspections to the RE/CM and MMC for approval per the following schedule:

**DOCUMENT SUBMITTAL/INSPECTION CHECKLIST:**

<b>ISSUE AREA</b>	<b>DOCUMENT SUBMITTAL</b>	<b>ASSOCIATED INSPECTION, APPROVALS, NOTES</b>
Paleontology	Principal Investigator & Paleontological Monitors Qualification Letters	Prior to Pre-Construction Meeting
Paleontology	Site-Specific Records Search	Prior to Pre-Construction Meeting
Paleontology	Paleontological Monitoring Exhibit	Prior to, or at, the Pre-Construction Meeting
Paleontology	Letter of Acknowledgement of Responsibility for Curation	Prior to the Pre-Construction Meeting
Paleontology	Construction Schedule (Monitoring)	Prior to Construction
Paleontology	Paleontology Reports	Paleontology Observation
Final PMRP		Final PMRP Inspection

**SPECIFIC PMRP ISSUE AREA CONDITIONS/REQUIREMENTS:**

**I. PALEONTOLOGICAL RESOURCES.**

**A. Prior to Permit Issuance or Construction.**

1. **Letters of Qualification have been submitted to MMC.**
  - a) Prior to the pre-construction meeting, Engineering and Capital Projects Department shall submit a letter of verification to 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.

- b) MMC will provide a letter to Engineering and Capital Projects Department confirming the qualifications of the PI and all persons involved in the paleontological monitoring of the project.
- c) Prior to the start of work, Engineering and Capital Projects Department shall obtain approval from MMC for any personnel changes associated with the monitoring program.

**B. Prior to Start of Construction.**

**1. Verification of Records Search.**

- a) 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.
- b) The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.

**C. PI Shall Attend Pre-Construction Meetings.**

- 1. Prior to beginning any work that requires monitoring, the City or City's representative shall arrange a pre-construction meeting that shall include the PI, Grading Contractor, RE/CM, Building Inspector (BI), if appropriate, and MMC. The qualified paleontologist shall attend any grading/excavation related pre-construction meetings to make comments and/or suggestions concerning the Paleontological Monitoring Program with the RE/CM and/or BI and Grading Contractor.
  - a) If the PI is unable to attend the pre-construction meeting, the Contractor, or Engineering and Capital Projects Department's consultant (if applicable), shall schedule a focused pre-construction meeting with MMC, PI, and RE/CM or BI, if appropriate, prior to the start of any work that requires monitoring.
- 2. Acknowledgement of Responsibility for Curation (Capital Improvement Program Project or Other Public Projects).
  - a) The Contractor, or Engineering and Capital Projects Department's consultant (if applicable), shall submit a letter to MMC, RE/CM and/or BI acknowledging their responsibility for the cost of curation associated with all phases of the paleontological monitoring program.
- 3. Identify Areas to be Monitored.
  - a) 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 inch) to MMC and RE/CM and/or BI for approval identifying the areas to be monitored including the delineation of grading/excavation limits. Monitoring shall begin at depths below 10 feet from existing grade or

as determined by the PI in consultation with MMC. The determination shall be based on site-specific records search data which supports monitoring at depths less than ten feet. 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). MMC shall notify the PI that the PME has been approved prior to commencing with any ground-disturbing activities.

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/CM and/or BI indicating when and where monitoring will occur.
  - b) The PI may submit a detailed letter to MMC and RE/CM and/or BI 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., which may reduce or increase the potential for resources to be present.
5. Approval of PME and Construction Schedule.
  - a) After approval of the PME by MMC, the PI shall submit to MMC and RE/CM and/or BI written authorization of the PME and Construction Schedule from the Contractor.

**D. During Construction.**

1. The Monitor shall be present during Grading/Excavation/Trenching.
  - a) The paleontological monitor shall be present full-time during grading/excavation/trenching activities including, but not limited to, mainline, laterals, jacking and receiving pits, services and all other appurtenances associated with underground utilities as identified on the PME that could result in impacts to formations with high and/or moderate resource sensitivity.
  - b) The Contractor is responsible for notifying the RE/CM and/or BI, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the PME.
  - c) The PI may submit a detailed letter to MMC and RE/CM and/or BI 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.

- d) The paleontological monitor shall document field activity via the Consultant Site Visit Record (CSV). The CSV shall be emailed and/or provided hard copy by the Contractor or Engineering and Capital Projects Department's consultant (if applicable) to the RE/CM and/or BI the first day of monitoring, the last day of monitoring, monthly (Notification of Monitoring Completion), and in the case of ANY discoveries. The RE/CM and/or BI shall forward copies to MMC.
2. Discovery Notification Process.
- a) 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/CM and/or BI, as appropriate.
  - b) The paleontological monitor shall immediately notify the PI (unless paleontological monitor is the PI) of the discovery.
  - c) The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC and RE/CM and/or BI within 24 hours by fax or email with photos of the resource in context, if possible.
3. Determination of Significance.
- a) The PI shall evaluate the significance of the resource.
    - i. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC and RE/CM and/or BI indicating whether mitigation is required. The determination of significance for fossil discoveries shall be at the discretion of the PI.
    - ii. If the resource is significant, the PI shall submit a Paleontological Recovery Program (PRP) and obtain written approval of the program from MMC and/or RE/CM and/or BI. PRP and any mitigation must be approved by MMC and RE/CM and/or BI before ground-disturbing activities in the area of discovery will be allowed to resume.
      - Note: For pipeline trenching projects only, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under item 4, "Discovery Process for Significant Resources - Pipeline Trenching Projects".
    - iii. 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.

- iv. The PI shall submit a letter to MMC and RE/CM and/or BI 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.
    - 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.
    - Note: For pipeline trenching projects only, if significance cannot be determined, the Final Monitoring Report and Site Record shall identify the discovery as Potentially Significant.
4. Discovery Process for Significant Resources - Pipeline Trenching Projects.
- a) Procedures for Documentation, Curation and Reporting. 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.
    - i. 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.
    - ii. The PI shall prepare a Draft Paleontological Monitoring Report and submit to MMC via the RE/CM and/or BI as indicated in **Section F - Post Construction**.
    - iii. 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 PMRP. The forms shall be submitted to the San Diego Natural History Museum and included in the Final Paleontological Monitoring Report.
    - iv. The Final Paleontological Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

## **E. Night and/or Weekend Work.**

1. If night and/or weekend work is included in the contract:
  - a) When night and/or weekend work is included in the contract package, the extent and timing shall be presented and discussed at the pre-construction meeting. The following procedures shall be followed:
    - i. No Discoveries - In the event that no discoveries were encountered during night and/or weekend work, the PI shall record the information on the CSVR and submit to MMC via the RE/CM and/or BI via email or in person by 8AM on the next business day.
    - ii. Discoveries - All discoveries shall be processed and documented using the existing procedures detailed in **Section D - During Construction**.
    - iii. Potentially Significant Discoveries - If the PI determines that a potentially significant discovery has been made, the procedures detailed under **Section D - During Construction** shall be followed.
  - b) The PI shall immediately contact the RE/CM and/or BI and MMC, or by 8AM on the next business day, to report and discuss the findings as indicated in **Section D - During Construction**, unless other specific arrangements have been made.
2. If night and/or weekend work becomes necessary during the course of construction:
  - a) The Contractor shall notify the RE/CM and/or BI a minimum of 24 hours before the work is to begin.
  - b) The RE/CM and/or BI, as appropriate, shall notify MMC immediately.
3. All other procedures described above shall apply, as appropriate.

## **F. Post Construction.**

1. Preparation and Submittal of Draft Paleontological Monitoring Report.
  - a) The PI shall submit two copies of the Draft Paleontological Monitoring Report (even if negative), prepared to the satisfaction of MMC, which describes the methods, results, analysis, and conclusions of all phases of the Paleontological Monitoring Program (with appropriate graphics) to MMC via the RE/CM and/or BI for review and approval within 90 calendar days following the completion of monitoring.
    - i. For significant or potentially significant paleontological resources encountered during monitoring, as identified by the PI, the Paleontological Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
    - ii. 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 PMRP, and submittal of such forms to the San Diego Natural History Museum with the Final Monitoring Report.

- b) MMC shall return the Draft Monitoring Report to the PI via the RE/CM and/or BI for revision or, for preparation of the Final Report.
- c) The PI shall submit revised Draft Monitoring Report to MMC via the RE/CM and/or BI for approval.
- d) MMC shall provide written verification to the PI and RE/CM and/or BI of the approved report.

2. Handling of Fossil Remains.

- a) The PI shall ensure that all fossils collected are cleaned to the point of curation (e.g., removal of extraneous sediment, repair of broken specimens, and consolidation of fragile/brittle specimens) and catalogued as part of the Paleontological Monitoring Program.
- b) The PI shall ensure that all fossils are analyzed to identify stratigraphic provenance, geochronology, and taphonomic context of the source geologic deposit; that faunal material is taxonomically identified; and that curation has been completed, as appropriate.

3. Curation of Fossil Remains: Deed of Gift and Acceptance Verification.

- a) The PI shall be responsible for ensuring that all fossil remains associated with the monitoring for this project are permanently curated with an accredited institution that maintains paleontological collections (such as the San Diego Natural History Museum).
- b) The PI shall submit the Deed of Gift and catalogue record(s) to the RE/CM and/or BI, as appropriate for donor signature with a copy submitted to MMC.
- c) The RE/CM and/or BI, as appropriate shall obtain signature on the Deed of Gift and shall return to PI with copy submitted to MMC.
- d) The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE/CM and/or BI and MMC.

4. Final Paleontological Monitoring Report(s).

- a) The PI shall submit two copies of the Final Paleontological Monitoring Report to MMC (even if negative), within 90 calendar days after notification from MMC of the approved report.
- b) The RE/CM and/or BI 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.

**ATTACHMENT F**  
**RESERVED**

**ATTACHMENT G**  
**CONTRACT AGREEMENT**

## CONTRACT AGREEMENT

### CONSTRUCTION CONTRACT

This Phase-Funded contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and **Burtech Pipeline Incorporated**, herein called "Contractor" for construction of **AC Water & Sewer Group 1052**; Bid No. **K-22-2047-DBB-3**; in the total amount **Nine Million Nine Hundred Three Thousand Four Hundred Fifty One Dollars and Ten Cents(\$9,903,451.10)**, which is comprised of the Base Bid plus Additive Alternate C, consisting of an amount not to exceed **\$3,000,000.00 for Phase 1, \$6,000,000.00 for Phase 2 and \$903,451.10 for Phase 3.**

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


1. The following are incorporated into this contract as though fully set forth herein:
  - (a) The attached Faithful Performance and Payment Bonds.
  - (b) The attached Proposal Included in the Bid documents by the Contractor.
  - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
  - (d) Phased Funding Schedule Agreement
  - (e) That certain documents entitled **AC Water & Sewer Group 1052** on file in the office of the Purchasing & Contracting Department as Document No. **K-22-2047-DBB-3**, as well as all matters referenced therein.
2. The City wishes to construct this Project on a Phase-Funded basis. In accordance with Whitebook section 7-3.10, the City is only obligated to pay for Phase I; Contractor cannot begin, nor is the City financially liable for any additional Phases, unless and until Contractor is issued a Notice to Proceed for each additional Phase by the City.
3. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **AC Water & Sewer Group 1052**, Bid Number: **K-22-2047-DBB-3**, San Diego, California.
4. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances (See WHITEBOOK, Section 7-3.10, Phased Funding Compensation).
5. 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.
6. This contract is effective as of the date that the Mayor or designee signs the agreement and is approved by the City Attorney in accordance with San Diego Charter Section 40.

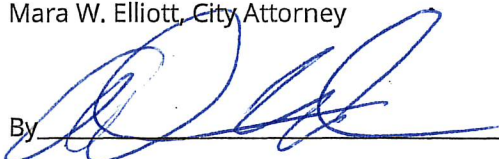
**CONTRACT AGREEMENT (continued)**

**IN WITNESS WHEREOF**, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code **522.3102** authorizing such execution.

**THE CITY OF SAN DIEGO**

**APPROVED AS TO FORM**

By 

Mara W. Elliott, City Attorney  
By 

Print Name: Cindy Crocker  
Deputy Director  
Purchasing & Contracting Department

Print Name: Adam Wassor  
Deputy City Attorney

Date: May 19, 2022

Date: 5/23/22

**CONTRACTOR** Burtech Pipeline Incorporated

By 

Print Name: Dominic J. Burtech

Title: President & CEO

Date: April 6, 2022

City of San Diego License No.: B1996002066

State Contractor's License No.: 718202

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000006324

## **CERTIFICATIONS AND FORMS**

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

## **BIDDER'S GENERAL INFORMATION**

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23  
UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106**

State of California

County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.



## CONTRACTOR CERTIFICATION

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### DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 5-1.3, "Drug-Free Workplace", of the project specifications, and that;

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

## CONTRACTOR CERTIFICATION

---

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

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the Americans With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 5-1.2, "California Building Code, California Code of Regulations Title 24 and Americans with Disabilities Act". of the project specifications, and that:

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

## **CONTRACTOR CERTIFICATION**

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### **CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE**

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 5-1.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

## **CONTRACTOR CERTIFICATION**

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### **EQUAL BENEFITS ORDINANCE CERTIFICATION**

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

## **CONTRACTOR CERTIFICATION**

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### **EQUAL PAY ORDINANCE CERTIFICATION**

Contractor shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) at section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.

Contractor shall require all of its subcontractors to certify compliance with the EPO in their written subcontracts.

Contractor must post a notice informing its employees of their rights under the EPO in the workplace or job site.

By signing this Contract with the City of San Diego, Contractor acknowledges the EPO requirements and pledges ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

## **CONTRACTOR CERTIFICATION**

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### **PRODUCT ENDORSEMENT**

I declare under penalty of perjury that I acknowledge and agree to comply with the provisions of City of San Diego Administrative Regulation 95.65, concerning product endorsement. Any advertisement identifying or referring to the City as the user of a product or service requires the prior written approval of the City.

**AFFIDAVIT OF DISPOSAL**

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

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

**AC Water & Sewer Group 1052**

(Project Title)

as particularly described in said contract and identified as Bid No. **K-22-2047-DBB-3**; SAP No. **B-18092, B-18096**; 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 \_\_\_\_\_, \_\_\_\_\_.

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

**ATTEST:**

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

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

Notary Public in and for said County and State

**LIST OF SUBCONTRACTORS**

**\*\*\* PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY \*\*\* TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY\*\*\* SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the Special Provisions – General; Paragraph 2-3 Subcontracts, which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	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: _____ Email: _____							
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

- 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   |  |          |
| 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.**



**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

**\*\*\* PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY \*\*\* TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY \*\*\* SEE INSTRUCTIONS TO BIDDERS FOR FURTHER INFORMATION**

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						

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

## **ELECTRONICALLY SUBMITTED FORMS**

**FAILURE TO FULLY COMPLETE AND SUBMIT ANY OF THE FOLLOWING FORMS WILL DEEM YOUR BID NON-RESPONSIVE.**

**PLANETBIDS WILL NOT ALLOW FOR BID SUBMISSIONS WITHOUT THE ATTACHMENT OF THESE FORMS**

The following forms are to be completed by the bidder and submitted (uploaded) electronically with the bid in PlanetBids.

- A. BID BOND – See Instructions to Bidders, Bidders Guarantee of Good Faith (Bid Security) for further instructions**
- B. CONTRACTOR’S CERTIFICATION OF PENDING ACTIONS**
- C. SUBCONTRACTOR LISTING FOR ALTERNATE ITEMS**
- D. MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**
- E. DEBARMENT AND SUSPENSION CERTIFICATION FOR PRIME CONTRACTOR**
- F. DEBARMENT AND SUSPENSION CERTIFICATION FOR SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS**
- G. CONTRACTOR’S EXPERIENCE AND PAST PROJECT DOCUMENTATION. SEE SSP AND 2018 WB SECTION 500-2.1, INITIAL SUBMITTALS, ITEM 1, a.**
- H. MANUFACTURER AUTHORIZED INSTALLER CERTIFICATION. SEE SSP AND 2018 WB SECTION 500-2.1, INITIAL SUBMITTALS, ITEM 1, b.**

**BID BOND**

**See Instructions to Bidders, Bidder Guarantee of Good Faith  
(Bid Security)**

KNOW ALL MEN BY THESE PRESENTS,

That BURTECH PIPELINE, INCORPORATED as Principal, and NORTH AMERICAN SPECIALTY 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

AC WATER & SEWER GROUP 1052


NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form of agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 31ST day of JANUARY, 2022

BURTECH PIPELINE, INCORPORATED (SEAL)  
(Principal)

NORTH AMERICAN SPECIALTY INSURANCE COMPANY (SEAL)  
(Surety)

By:   
(Signature)

By:   
(Signature)

DOMINIC J. BURTECH, JR., PRESIDENT  
(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

MARK D. IATAROLA, ATTORNEY-IN-FACT

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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

State of California }

County of San Diego }

On 2/8/2022 before me, Arthur P. Arquilla, Notary Public  
(Here insert name and title of the officer)

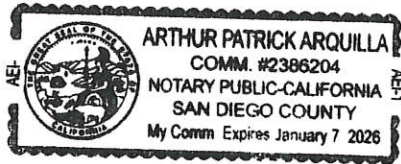
personally appeared Dominic Butech,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s)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

Arthur P. Arquilla  
Notary Public Signature

(Notary Public Seal)



### ADDITIONAL OPTIONAL INFORMATION

#### DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

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

#### CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
- Corporate Officer

\_\_\_\_\_  
(Title)

- Partner(s)
- Attorney-in-Fact
- Trustee(s)
- Other \_\_\_\_\_

### INSTRUCTIONS FOR COMPLETING THIS FORM

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

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

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

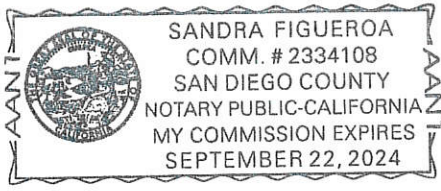
CIVIL CODE § 1189

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

State of California }  
County of SAN DIEGO

On 1/31/2022 before me, SANDRA FIGUEROA, NOTARY PUBLIC  
*Date Here Insert Name and Title of the Officer*  
personally appeared MARK D. IATAROLA  
*Name(s) of Signer(s)*

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



Place Notary Seal and/or Stamp Above

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

WITNESS my hand and official seal.

Signature [Handwritten Signature]  
*Signature of Notary Public*

**OPTIONAL**

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

**Description of Attached Document**

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

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

Signer's Name: MARK D. IATAROLA  
 Corporate Officer – Title(s): \_\_\_\_\_  
 Partner –  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian of Conservator  
 Other: \_\_\_\_\_  
Signer is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_  
 Corporate Officer – Title(s): \_\_\_\_\_  
 Partner –  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian of Conservator  
 Other: \_\_\_\_\_  
Signer is Representing: \_\_\_\_\_

SWISS RE CORPORATE SOLUTIONS

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY
WESTPORT INSURANCE CORPORATION

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Kansas City, Missouri and Washington International Insurance Company a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Kansas City, Missouri, and Westport Insurance Corporation, organized under the laws of the State of Missouri, and having its principal office in the City of Kansas City, Missouri, each does hereby make constitute and appoint:

JOHN G. MALONEY, HELEN MALONEY, SANDRA FIGUEROA, MARK D. IATAROLA, JESSICA SCHMAL, and TRACY LYNN RODRIGUEZ JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of: ONE HUNDRED TWENTY FIVE MILLION (\$125,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on March 24, 2000 and Westport Insurance Corporation by written consent of its Executive Committee dated July 18, 2011.

RESOLVED, that any two of the President, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached.



By Steven P. Anderson, Senior Vice President of Washington International Insurance Company & Senior Vice President of North American Specialty Insurance Company & Senior Vice President of Westport Insurance Corporation

[Signature of Steven P. Anderson]



By Erik Janssens, Senior Vice President of Washington International Insurance Company & Senior Vice President of North American Specialty Insurance Company & Senior Vice President of Westport Insurance Corporation

[Signature of Erik Janssens]

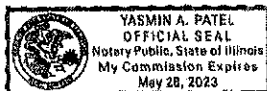
IN WITNESS WHEREOF, North American Specialty Insurance Company, Washington International Insurance Company and Westport Insurance Corporation have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 12th day of November, 20 21.

North American Specialty Insurance Company
Washington International Insurance Company
Westport Insurance Corporation

State of Illinois
County of Cook ss:

On this 12th day of November, 20 21, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of

Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and Senior Vice President of Westport Insurance Corporation and Erik Janssens Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and Senior Vice President of Westport Insurance Corporation, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.



[Signature of Yasmin A. Patel]

Yasmin A. Patel, Notary

I, Jeffrey Goldberg, the duly elected Senior Vice President and Assistant Secretary of North American Specialty Insurance Company, Washington International Insurance Company and Westport Insurance Corporation do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company, Washington International Insurance Company and Westport Insurance Corporation which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 31st day of JANUARY, 20 22.

[Signature of Jeffrey Goldberg]

Jeffrey Goldberg, Senior Vice President & Assistant Secretary of Washington International Insurance Company & North American Specialty Insurance Company & Vice President & Assistant Secretary of Westport Insurance Corporation

### CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
  
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Burtech Pipeline, Incorporated

Certified By Dominic J. Burtech Title President & CEO  
Name

 Date 2/8/2022  
Signature

**USE ADDITIONAL FORMS AS NECESSARY**

**SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE**

\*\*\* FOR USE WHEN LISTING SUBCONTRACTORS ON ALTERNATES \*\*\*

(Use Additional Sheets As Needed)

ADDITIVE/DEDUCTIVE ALTERNATE	SUBCONTRACTOR NAME, LOCATION, PHONE & EMAIL	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Additive Alternate A	Name: <u>Piperin Corporation</u> Address: <u>510 Ventura St</u> City: <u>Escondido</u> State: <u>CA</u> Zip: <u>92029</u> Phone: <u>760-305-7248</u> Email: <u>craig@piperincorp.com</u>	Constructor	1000000485	964028	Bid # 92, 93 & 94 (part)	\$20,800.00	SLBE	City	
Additive Alternate B	Name: <u>Piperin Corporation</u> Address: <u>510 Ventura St</u> City: <u>Escondido</u> State: <u>CA</u> Zip: <u>92029</u> Phone: <u>760-305-7248</u> Email: <u>craig@piperincorp.com</u>	Constructor	1000000485	964028	Bid # 95, & 98 (part)	\$76,000.00	SLBE	City	
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								

- 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     |
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| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
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| 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   |  |          |
| 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.**



**SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE**  
**\*\*\* FOR USE WHEN LISTING SUBCONTRACTORS ON ALTERNATES \*\*\***  
**(Use Additional Sheets As Needed)**

ADDITIVE/DEDUCTIVE ALTERNATE	SUBCONTRACTOR NAME, LOCATION, PHONE & EMAIL	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Additive Alternate C	Name: <u>Soclaris Contracting</u> Address: <u>7437 Lowell Ct</u> City: <u>La Mesa</u> State: <u>CA</u> Zip: <u>91942</u> Phone: <u>619-465-3438</u> Email: <u>soclaris@sbcglobal.net</u>	Constructor	1 000011964	793838	BI#103, 104, 105, 106, 107, 108, & 109	\$48,200.00	SLBE	City	
Additive Alternate D	Name: <u>California Asphalt Paving &amp; Grading</u> Address: <u>1220 Bolinas Bay Ct</u> City: <u>Chula Vista</u> State: <u>CA</u> Zip: <u>91913</u> Phone: <u>619-890-0826</u> Email: <u>capavingandgrading@gmail.com</u>	Constructor	1000062521	1033358	BI # 110, 112 & 113	\$608,519.30	ELBE	City	
Deductive Alternate E	Name: <u>Roy Allan Slurry Seal</u> Address: <u>11922 Bloomfied Ave.</u> City: <u>Santa Fe Springs</u> State: <u>CA</u> Zip: <u>90670</u> Phone: <u>562-864-3363</u> Email: <u>lawrence@raslurry.com</u>	Constructor	1000001156	372798	RPMS BI#115, 116 & 117	(\$212,911.68)			

- 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   |  |          |
| 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.**

## MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM

### BIDDER/PROPOSER INFORMATION

<b>Legal Name</b>		<b>DBA</b>	
Burtech Pipeline, Incorporated			
<b>Street Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
102 Second St.	Encinitas	CA	92024
<b>Contact Person, Title</b>		<b>Phone</b>	<b>Fax</b>
Buddy Aquino - Chief Estimator		(760) 634-2822	(760) 634-2415

Provide the name, identity, and precise nature of the interest\* of all persons who are directly or indirectly involved\*\* in this proposed transaction (SDMC § 21.0103).

\* The precise nature of the interest includes:

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction, the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and any philanthropic, scientific, artistic, or property interest in the transaction.

\*\* Directly or indirectly involved means pursuing the transaction by:

- communicating or negotiating with City officers or employees,
- submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or directing or supervising the actions of persons engaged in the above activity.

<b>Name</b>	<b>Title/Position</b>
Dominic J. Burtech	President & CEO
<b>City and State of Residence</b>	<b>Employer (if different than Bidder/Proposer)</b>
Encinitas, CA	
<b>Interest in the transaction</b>	
51%	

<b>Name</b>	<b>Title/Position</b>
Julie J. Burtech	Exec. VP & Secretary
<b>City and State of Residence</b>	<b>Employer (if different than Bidder/Proposer)</b>
Encinitas, CA	
<b>Interest in the transaction</b>	
49%	

#### \* Use Additional Pages if Necessary \*

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Dominic J. Burtech - President & CEO ✓ 2/8/2022

---

Print Name, Title
Signature
Date

**Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed Mandatory Disclosure of Business Interests Form is submitted.**

**DEBARMENT AND SUSPENSION CERTIFICATION**  
**PRIME CONTRACTOR**  
**FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE**

EFFECT OF DEBARMENT OR SUSPENSION
To promote integrity in the City's contracting processes and to protect the public interest, the City shall only enter into contracts with responsible- bidders and contractors. In accordance with San Diego Municipal Code §22.0814 (a): <i>Bidders</i> and <i>contractors</i> who have been <i>debarred</i> or <i>suspended</i> are excluded from submitting bids, submitting responses to requests for proposal or qualifications, receiving <i>contract</i> awards, executing <i>contracts</i> , participating as a <i>subcontractor</i> , employee, agent or representative of another <i>person</i> contracting with the City.

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 Names of the Principal Individual owner(s).

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

NAME	TITLE
Dominic J. Burtech	President & CEO
Julie J. Burtech	Exec. VP & Secretary

**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.

The Bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

- Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal, State or local agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal, State or local agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Contractor Name: Burtech Pipeline, Incorporated

Certified By Dominic J. Burtech Title President & CEO

Name

Signature

Date 2/8/2022

**NOTE:** Providing false information may result in criminal prosecution or administrative sanctions.

**DEBARMENT AND SUSPENSION CERTIFICATION**  
**SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS**  
**\*TO BE COMPLETED BY BIDDER\***  
**FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE**

Names of the Principal individual owner(s)

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 Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please indicate if principal owner is serving in the capacity of **subcontractor, supplier, and/or manufacturer**:

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
McGrath Consulting	
Michael McGrath	President

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
NuLine Technologies, LLC	
Frank Durazo	Partner
Dominic & Julie Burtech	Partners
Salvador Aquino	Partner

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
Statewide Stripes Inc.	
David Brilhante	President
Jason McElveny	Vice President

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
REC TRUCKING INC	
Rafael Teran	President

Contractor Name: Burtech Pipeline, Incorporated

Certified By Dominic J. Burtech Title President & CEO

Name

 \_\_\_\_\_

Date 2/8/2022

Signature

**\*USE ADDITIONAL FORMS AS NECESSARY\*\***

**DEBARMENT AND SUSPENSION CERTIFICATION**  
**SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS**  
**\*TO BE COMPLETED BY BIDDER\***  
**FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE**

Names of the Principal individual owner(s)

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 Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please indicate if principal owner is serving in the capacity of **subcontractor, supplier, and/or manufacturer:**

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
Meridian Archaeological Services	
Jose "Pepe" Aguilar	Principal Investigator

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
Sutherlin Contracting, Inc.	
Kristi Sutherlin	President
David Brian Sutherlin	Treasurer/Secretary

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
Soclaris Contracting	
Sonny Rosenal	President

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
Roy Allen Slurry Seal	
Lawrence Allan	President

Contractor Name: Burtech Pipeline, Incorporated

Certified By Dominic J. Burtech Title President & CEO

Name

 Date 2/8/2022

Signature

**\*USE ADDITIONAL FORMS AS NECESSARY\*\***

**DEBARMENT AND SUSPENSION CERTIFICATION**  
**SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS**  
**\*TO BE COMPLETED BY BIDDER\***  
**FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE**

Names of the Principal individual owner(s)

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 Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please indicate if principal owner is serving in the capacity of **subcontractor**, **supplier**, and/or **manufacturer**:

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
Piperin Corporation	
Craig Barry	President

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
YBS Construction Engineering	
Rodolfo Sanchez	President
Marissa Sanchez	Vice President

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
California Asphalt Paving & Grading	
Christopher Vasquez	President

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE

Contractor Name: Burtech Pipeline, Incorporated

Certified By Dominic J. Burtech Title President & CEO

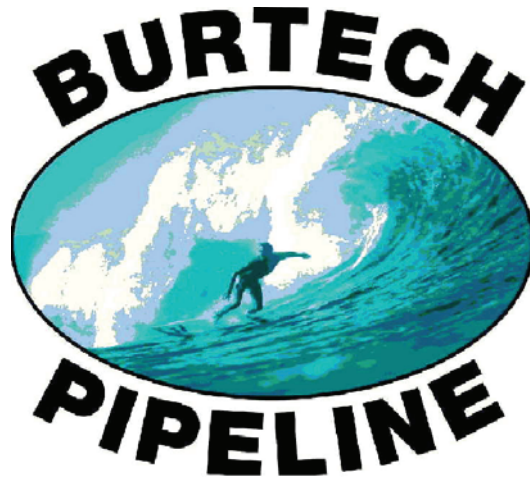
Name



Date 2/8/2022

Signature

**\*USE ADDITIONAL FORMS AS NECESSARY\*\***



Serving San Diego County's Pipeline Needs for Over 16 Years



**Our Mission:**

Our goal is to create total customer satisfaction to ensure long term success for our employees, our company and the work we represent through continued improvement in our commitment to excellence, integrity and team work.

We strive to implement a long term relationship with our customers based on safety, quality of work, timely service and anticipation of their needs.

We take pride in completing jobs in a timely and efficient manner with the utmost integrity.

We continuously strive to have strength, courage, compassion and to be a leader. We endeavor to have the will to be all we can be to our customers, our peers and ourselves; to be proud of the service and quality of work we provide for our customers; to be proud of whom we are, the team, "Burtech Pipeline."

---

102 Second St., Encinitas, Ca 92024

Phone: (760) 634-2822

Fax: (760) 634-2415

Class A Contracting License; #718202

[www.burtechpipeline.com](http://www.burtechpipeline.com)



## BURTECH PIPELINE, INC.

Burtech Pipeline Incorporated is a Privately-held California Corporation founded in 1995 by Dominic and Julie Burtech. Dominic Burtech, President and Chief Executive Officer, has over twenty-five years of experience in all phases of underground construction. Through years of dedication and hard work, he has turned this company into a competitive general contractor that continues to thrive today.



At Burtech Pipeline, we accomplish our jobs through teamwork. Our teamwork relies upon our communication as well as the hard work that each individual puts in to their specific assignment so that when combined our jobs are completed accurately, on time and within budget. Our superintendent has over thirty-four years of experience in



both the private and public sectors of underground construction. Along with our Chief Estimator and Project Manager, Burtech Pipeline has completed over 150 public and private projects in the last 5 years within the greater county of San Diego.





## BURTECH PIPELINE, INC.

Burtech Pipeline is experienced in both private and public civil engineering projects. Our main areas of focus include the following:

- Sewer Main Installation / Replacement
- Water Main Installation / Replacement
- Storm Drain Installation / Replacement
- Sewer Rehabilitation
- Sewer Lateral Rehab
- Sewer Ejector Pumps Installation
- Storm Drain Detention Systems Installation
- Fire Water Service Lines Installation



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### Past and Present Clients Include:

- City of San Diego
- County of San Diego
- Shea Homes
- Brookfield Homes
- Helix Water District
- Olivenhain Municipal Water District



## BURTECH PIPELINE, INC.

**We are proud of and stand by our mission statement:**

“Our goal is to create total customer satisfaction to ensure long term success for our employees, our company and the work we represent through continued improvement in our commitment to excellence, integrity and team work.

We strive to implement a long term relationship with our customers based on safety, quality of work, timely service and anticipation of their needs.

We take pride in completing jobs in a timely and efficient manner with the utmost integrity.

We continuously strive to have strength, courage, compassion and to be a leader. We endeavor to have the will to be all we can be to our customers, our peers and ourselves; to be proud of the service and quality of work we provide for our customers; to be proud of whom we are, the team, “Burtech Pipeline.”

**The team here at Burtech Pipeline is confident that we can complete any of your underground project needs and look forward to doing business with you in the future!**



---

102 Second St., Encinitas, Ca 92024

Phone: (760) 634-2822

Fax: (760) 634-2415

Class A Contracting License; #718202

[www.burtechpipeline.com](http://www.burtechpipeline.com)



**BURTECH PIPELINE INC.**  
 102 2nd Street,  
 Encinitas, CA 92024

## MAIN & LATERAL LINING PROJECT REFERENCES

Job Name	Owner	Contact	Contract Amount	Footage Lined	Date Completed
<b>Pipeline Rehabilitation AC-1</b> Skyline Dr. & S. Lausanne Dr (8" Sewer Main Rehabilitation)	<b>City of San Diego</b> 9573 Chesapeake Drive, San Diego, CA 92123	<b>Lan Nguyen</b> (619) 980-2824	\$ 3,610,664.43	40,108	3/7/2019
<b>Pipeline Rehabilitation Z-1</b> Skyline-Paradise Hills/Encanto Neighb. (8" Sewer Main Rehabilitation)	<b>City of San Diego</b> 9573 Chesapeake Drive, San Diego, CA 92123	<b>Dave Engel</b> (619) 549-5451	\$ 1,249,268.43	13,504	12/15/2017
<b>Pipeline Rehab F-2 (Laterals)</b> Various Locations City of San Diego (2,086 Ea of Lateral Lining & Hats)	<b>City of San Diego</b> 9573 Chesapeake Drive, San Diego, CA 92123	<b>Ryan Reed</b> (619) 980-1201	\$ 4,321,475.08	2,086	1/1/2017
<b>Sewer &amp; Water Group 799</b> (6" CIPP Rehabilitation of existing VCP Sewer Mains in the Canyon)	<b>City of San Diego</b> 1200 Third Avenue, Suite 200, San Diego, CA 92101	<b>Ha Nguyen</b> (619) 990-4038	\$ 4,493,956.19	1,236	12/16/2016
<b>2016 Sewer Main CIPP Rehabilitation</b> Yorba Linda (8" Sewer Main Rehabilitation)	<b>Yorba Linda Water District</b> 1717 E. Miraloma Avenue, Placentia, CA 92870	<b>Alex Thomas</b> (714) 701-3115	\$ 248,153.76	3,409	8/31/2016
<b>Pipeline Rehabilitation S-1</b> (8" Sewer Main CIPP Rehabilitation & 4" Sewer Lateral Lining)	<b>City of San Diego</b> 1010 Second Ave. Ste. 1400, San Diego, CA 92101	<b>Clem Wassenberg</b> (619) 218-8404 <a href="mailto:Cwassenberg@sanidiego.gov">Cwassenberg@sanidiego.gov</a>	\$ 4,036,961.11	60,888	7/6/2016
<b>Pipeline Rehabilitation M-1</b> (8" Sewer Main CIPP Rehabilitation & 4" Sewer Lateral Lining)	<b>City of San Diego</b> 1200 Third Avenue, Suite 200, San Diego, CA 92101	<b>Reagan Owen</b> (619) 533-5205 <a href="mailto:Rowen@sanidiego.gov">Rowen@sanidiego.gov</a>	\$ 2,794,787.28	38,922	6/30/2016
<b>Backbay Drive Storm Drain Rehab</b> (CIPP Lining of approx. 1948 Lf of exist. SD between 12" to 42" Dia.)	<b>City of New Port Beach</b> PWD, 100 Civic Center Drive, Bay D, 2F New Port Beach, CA 92660	<b>Peter Tauscher</b> (949) 644-3316 <a href="mailto:ptauscher@newportbeachca.gov">ptauscher@newportbeachca.gov</a>	\$ 409,378.88	1,948	5/6/2016
<b>Sewer Group Job 833</b> (CIPP Lining of approx. 3857 Lf of 6", 8" and 10" Caly Sewer Mains)	<b>City of San Diego</b> 1010 Second Ave. Ste. 1400, San Diego, CA 92101	<b>Ramin Hatam</b> (858) 495-7845 <a href="mailto:Rhatam@sanidiego.gov">Rhatam@sanidiego.gov</a>	\$ 444,591.30	3,857	4/20/2016
<b>Pipeline Rehabilitation W-1</b> (8" Sewer Main CIPP Rehabilitation & 4" Sewer Lateral Lining)	<b>City of San Diego</b> 1010 Second Ave. Ste. 1400, San Diego, CA 92101	<b>Scott Reilly</b> (760) 310-9816 <a href="mailto:sreilly@rbrady.net">sreilly@rbrady.net</a>	\$ 2,168,505.55	31,174	2/5/2016
<b>Batiquitos Force Mains, B1 &amp; B2</b> (CIPP Lining of 383 Lf of 21" Trunk Sewer under railroad crossings)	<b>Leucadia Wastewater District</b> 1960 La Costa Avenue, Carlsbad, CA 92009	<b>Robin Morishita</b> (760) 753-0155 <a href="mailto:rmorishita@lwwd.org">rmorishita@lwwd.org</a>	\$ 4,686,123.45	383	11/16/2015
<b>Pipeline Rehabilitation X-1</b> (8"-15" Sewer Main CIPP Rehab and 4" Sewer Lateral Lining)	<b>City of San Diego</b> 1010 Second Ave. Ste. 1400, San Diego, CA 92101	<b>Neda Shahrara</b> (619) 665-7447 <a href="mailto:NShahrara@sanidiego.gov">NShahrara@sanidiego.gov</a>	\$ 530,507.38	4,151	11/11/2015
<b>Harbor Drive Trunk Sewer</b> (CIPP Lining of approx. 1550 Lf of exist. 48" Sewer Trunk)	<b>City of San Diego</b> 1010 Second Ave. Ste. 1400, San Diego, CA 92101	<b>Bijan Shakiba</b> (619) 533-5191 <a href="mailto:Bshakiba@sanidiego.gov">Bshakiba@sanidiego.gov</a>	\$ 8,814,751.07	1,550	8/4/2015
<b>2014 Sewer PL &amp; SD Repairs</b> (CIPP Lining 263' of 18" SD and about 3104' of 6"/8" Sewer Mains)	<b>City of Solana Beach</b> 635 S. Highway 101, Solana Beach, CA 92075	<b>Taryn Kjolsing, P.E.</b> (858) 720-2487 <a href="mailto:tkjolsing@cosb.org">tkjolsing@cosb.org</a>	\$ 491,702.50	3,367	3/31/2015
<b>Sewer Rehab Project No. 9</b> (CIPP Lining of exist. 8" and 10" VCP Sewer Mains)	<b>LA County Department of Public Works</b> 900 S Fremont Avenue, Los Angeles, CA 91803	<b>Jose Pou</b> (626) 458-2191 <a href="mailto:Jpou@dpw.lacounty.gov">Jpou@dpw.lacounty.gov</a>	\$ 244,087.60	9,250	10/24/2014
<b>Pipeline Rehabilitation N-1</b> (8" Sewer Main CIPP Rehabilitation & 4" Sewer Lateral Lining)	<b>City of San Diego</b> 1200 Third Avenue, Suite 200, San Diego, CA 92101	<b>Maryam Liaghat</b> (619) 533-4641 <a href="mailto:MLiaghat@sanidiego.gov">MLiaghat@sanidiego.gov</a>	\$ 5,907,193.15	74,424	3/4/2014
<b>Emergency Sewer Rehabilitation on Third Avenue</b> (8" Sewer Main Rehabilitation)	<b>City of Chula Vista</b> 1800 Maxwell Road, Chula Vista, CA 91910	<b>Boushra Salem</b> (619) 691-5040	\$ 93,015.00	660	3/31/2013
<b>SW260/SW268 Sewer Rehabilitation</b> (8" Sewer Main Rehabilitation)	<b>City of Chula Vista</b> 1800 Maxwell Road, Chula Vista, CA 91910	<b>Joselito Castillo</b> (619) 719-8161	\$ 632,591.87	5,370	9/26/2012
<b>Pipeline Lateral Rehab Phase C-2</b> Lake Murray Area	<b>City of San Diego</b> 1200 Third Avenue, Suite 200, San Diego, CA 92101	<b>Bill Swallow</b> (858) 495-7879	\$ 795,341.00	6,600	5/29/2009
<b>Pipeline Lateral Rehab Phase C-3</b> Lake Murray Area	<b>City of San Diego</b> 1200 Third Avenue, Suite 200, San Diego, CA 92101	<b>Bill Swallow</b> (858) 495-7879	\$ 504,436.24	4,080	5/29/2009

TOTAL FOOTAGE 308150

April 1, 2006

To Whom It May Concern

This is to certify that Burtech Pipeline, Inc. is a certified trained and licensed installer of CIPP (Cured In Place Pipe) lining materials and process that conform to ASTM F-1216 and ASTM F-1743. Pipe Lining Supply Corporation is a manufacturer and wholesale distributor of CIPP lining and AIPPR coating process that has been in business since 2003. Pipe Lining Supply materials meet all industry standards and the methods of installation conforming to those standards. Burtech Pipeline, Inc. has been trained in the CIPP process including the CIPP standards as well as the California Greenbook standards using materials manufactured specifically for this process.



John M. Heisler  
V. President

*YOUR CURED IN PLACE PIPE (CIPP) &  
APPLIED IN PLACE PIPE REHABILITATION (AIPPR) SUPPLIER*



Burtech Pipeline, Inc.  
102 Second Street, Encinitas, CA 92024  
Ph (760) 634-2822 | Fax (760) 634-2415

As of Aug. 2015

## CERTIFICATE OF INSTALLER

To Whom It May Concern:

This certificate verifies that Burtech Pipeline has received all necessary training for the correct preparation and installation procedures for the Cosmic Tophat “Lateral connection sealing system”, and Cosmic “Quickseal” Short liner repairs. If there is any other questions please contact Chris Armijo at information listed below.

Sincerely,

A handwritten signature in blue ink is written over the Cosmic logo. The signature appears to read "Johann Kubel". Below the signature, the text "Tel.: +43 2744 7004 • e-mail: office@cosmic.at" is printed in a small font.

Tel.: +43 2744 7004 • e-mail: office@cosmic.at

Johann Kubel  
CEO, Cosmic Engineering GMBH



DTA Trenchless Supplies

3124 E Isaiah Ave.

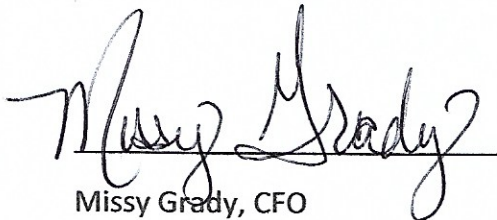
Gilbert, AZ 85298

[www.dtatrenchlessupplies.com](http://www.dtatrenchlessupplies.com)

**LINER INSTALLATION LICENSE**

Date: October 31, 2019

This is to certify that Burtech Pipeline, Inc, is a licensed CIPP installer of Easy Liner. DTA Trenchless Supplies is a subsidiary of Easy Liner and has over 30 years experience of liner manufacturing. Easy Liners are manufactured in accordance with the specifications of DTA Trenchless Supplies and comply with the requirements of ASTM F1216. Easy Liners are comprised of Felt and coated components from Applied Felts, Non-Woven Solutions, and Haartz Materials. Additionally, the liner utilizes a resin from AOC or interplastic with a catalyst system from Akzo Nobel.

A handwritten signature in black ink, appearing to read "Missy Grady". The signature is written in a cursive, flowing style. Below the signature is a horizontal line, and underneath that line, the name "Missy Grady, CFO" is printed in a standard sans-serif font.

Missy Grady, CFO



## Statement of Qualifications

Nu-Line Technologies, LLC has been successfully protecting infrastructure utilities since January of 2015. Nu-Line Technologies, LLC was introduced to the local wastewater and storm water infrastructure with the City of San Diego in 2015. Prior to our name change in January of 2015, we successfully completed infrastructure projects with the City of San Diego and other local agencies as Burtech Pipeline Inc. since 2007. With a new focus on infrastructure rehabilitation in our immediate San Diego Market, Nu-Line Technologies, LLC was launched to focus strictly on infrastructure rehabilitation methodologies with the advancement of mainline Cured-In-Place lining as well as service lateral connections (UV Curing) and lateral lining rehabilitation.

### ***Installation Experience***

Our installation crews have a minimum 10 years of experience in the Cured in Place field and have successfully completed projects throughout the western United States. Our Field Superintendent, Jorge Beltran has overseen and completed smaller to large scale projects throughout the western region since 1999. We are a fully licensed and bonded General Engineering Contractor and have completed many projects as Nu-Line Technologies, LLC similar in size and scale in California and New Mexico. Nu-Line Cured In Place and Spiral Wound Crews have installed over 920,000 linear feet ranging from 6" to 60" diameters for both sanitary sewer and storm drain applications.

### ***Industry Qualifications***

- Licensed General Contractor in the State of California, License No. 997520 - A
- City of Los Angeles/Greenbook Approved materials for Cured In Place and UV Service Lateral Connections
- Confined Space Certified, First aid and CPR certified.
- Certified Installer of Cosmic UV Top Hats & Sectional Liner
- Certified Installer of Applied Felts CIPP liner materials.
- Certified Installer of Sekisui SPR Americas Spiral Wound Pipeline products.
- Certified Installer of MTC (Aegion) CIPP Liner Products.
- ISNetworld trained and certified

Nu-Line Technologies, LLC. and its employees are fully cognizant and comply with all Federal and State OSHA regulations regarding confined space entry and procedures.

Frank Durazo

A handwritten signature in blue ink, appearing to read "Frank Durazo", is written over a light blue horizontal line.

Operations Manager — Nu-Line Technologies, LLC.



# APPLIED FELTS

**Applied Felts, Inc.** 450 College Drive, Martinsville, Virginia 24112  
Telephone (276) 656-1904 Fax: (276) 656-1909  
office@appliedfelts.com

April 3, 2015

To Whom It May Concern:

This letter certifies that Applied Felts manufactured tubes meet the material requirements of ASTM F1216-09 (paragraph 5.1) and ASTM F 1743-08(section 6) as well as meet the minimum strength requirements of ASTM-D5813-04 (paragraph 6.1). All our materials and finished products are tested to ensure suitability to the application. Each liner is typically tested in 28 different ways and traceable test data is available for any particular liner.

Applied Felts has provided polymer coated felt tubes for use in Cured In Place Pipe (CIPP) lining for more than fifteen years, and supplied materials for the CIPP industry for more than twenty years. Over 75 million feet of our liner has been successfully installed in North America. Our liners are assembled in Martinsville, VA, using only components made in the USA.

Applied Felts is a registered ISO 9001:2008 company.  
Nu-Line Technologies, LLC is a certified installer of Applied Felts lining products.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Mark Sanders".

W. Mark Sanders  
General Manager





**FERRATEX**  
Professional Cured-In-Place wet out services built on 25 years of experience!

20520 Unico Road  
McKenney, VA 23872  
804.451.3667  
www.FerraTex.com

## LINER INSTALLATION LICENSE

Date: January 3, 2015

This is to certify that Nu-Line Technologies, LLC is a licensed CIPP installer of the FerraTex Liner. FerraTex is a subsidiary of Spiniello Companies and has 25 years' experience of liner manufacturing in the United States. FerraTex Liners are manufactured in accordance with the specifications of FerraTex and comply with the requirements of ASTM F1216. FerraTex liners are comprised of Felt and coated felt components from Applied Felts, Non-Woven Solutions, and Haartz Materials. Additionally the liner utilizes a resin from AOC or interplastics with a catalyst system from Akzo Nobel.

---

Gerhardt Rodenberger  
Division Manager, CIPP



By Royal Charter

**COPY**

# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that:

Applied Felts Inc.  
450 College Drive  
Martinsville  
Virginia  
24112  
USA

Holds Certificate No:

**FM 55735**

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

Manufacture of textile products used in pipeline rehabilitation.

For and on behalf of BSI:

Pietro Foschi - Strategic Delivery Director

Originally registered: 08/15/2000

Latest Issue: 03/05/2015

Expiry Date: 05/31/2018



Page: 1 of 1

...making excellence a habit.™



**APPLIED FELTS**

Applied Felts, Inc. 450 College Drive, Martinsville, Virginia 24112  
Telephone (276) 656-1904 Fax: (276) 656-1909  
office@appliedfelts.com



## Material Health and Safety Data Sheet

**EFFECTIVE DATE: APRIL 26, 2012**

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

**PRODUCT NAME:** POLYURETHANE COATED LINER

**SUPPLIER:** Applied Felts, Inc  
450 College Drive  
Martinsville, VA 24112

**TELEPHONE:** (276) 656-1904

**FAX:** (276) 656-1909

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**COATING:** Thermoplastic Polyurethane Polymer  
**SUBSTRATE:** Polyethylene Terephthalate Felt

### 3. HAZARDS IDENTIFICATION

**HAZARDS DESIGNATION:** Not Classified as a Hazardous Material.  
**POTENTIAL HEALTH HAZARDS:** During decomposition or combustion, the product can cause irritation to eyes, skin, or respiratory tract. As a delayed effect, sensitization to isocyanates may occur.

### 4. FIRST AID MEASURES

**INHALATION:** No effects anticipated  
**INGESTION:** No effects anticipated  
**SKIN:** No effects anticipated  
**EYES:** No effects anticipated



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## 5. FIRE FIGHTING MEASURES

<b>EXTINGUISHING MEDIA:</b>	Water, Foam, Dry Chemical
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon Dioxide (CO <sup>2</sup> ), Carbon Monoxide (CO), Hydrogen Cyanide (HCN), Oxides of Nitrogen, Hydrocarbons and Diisocyanate
<b>SPECIAL PROTECTIVE EQUIPMENT:</b>	Positive pressure self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

<b>SPILL CLEAN-UP METHODS:</b>	N/A
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## 7. HANDLING AND STORAGE

<b>USAGE PRECAUTIONS:</b>	N/A
<b>STORAGE PRECAUTIONS:</b>	N/A

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>PROTECTIVE EQUIPMENT</b>	
<b>VENTILATION:</b>	N/A
<b>RESPIRATORS:</b>	N/A
<b>PROTECTIVE GLOVES:</b>	N/A
<b>EYE PROTECTION:</b>	N/A
<b>GENERAL PROTECTIVE AND HYGIENIC MEASURES:</b>	Standard industry safety and hygiene principles should be exercised

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>FORM:</b>	Polyurethane coated liner
<b>COLOR:</b>	White
<b>ODOR:</b>	Faint
<b>MELT POINT – FELT</b>	260° C
<b>MELT POINT – COATING</b>	> 177° C
<b>DENSITY – FELT</b>	150 – 200 Kg/m <sup>3</sup>
<b>DENSITY – COATING</b>	1100 – 1300 Kg/m <sup>3</sup>
<b>FLAMMABILITY</b>	N/A



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## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	Normally Stable
<b>CONDITIONS/MATERIALS TO BE AVOIDED:</b>	Excessive heat, Organic solvents
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon Dioxide (CO <sup>2</sup> ), Carbon Monoxide (CO), Hydrogen Cyanide (HCN), Oxides of Nitrogen, Hydrocarbons and Diisocyanate, are all anticipated at levels above trace
<b>FIRE CREATES:</b>	

## 11. TOXICOLOGICAL INFORMATION

<b>HEALTH WARNINGS:</b>	No health risk at ambient temperatures. Elevated temperatures may cause this product to emit irritating vapors
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## 12. ECOLOGICAL INFORMATION

<b>ENVIRONMENTAL HAZARDS:</b>	Not biologically degradable. Bioaccumulation improbable Generally not hazardous to water
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## 13. DISPOSAL CONSIDERATIONS

<b>DISPOSAL METHODS:</b>	Dispose of waste by incineration or in landfill in accordance with local regulations
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## 14. TRANSPORT INFORMATION

**NOT CLASSIFIED AS A DANGEROUS CARGO**

## 15. REGULATORY INFORMATION

<b>DESIGNATION ACCORDING TO EUROPEAN COMMISSION GUIDELINES:</b>	No known regulations related to this product. Observe the local safety regulations for handling chemicals.
---	---



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## 16. OTHER INFORMATION

This data is based on our present knowledge. However, they shall not be constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### NFPA® HAZARD RATING

HEALTH:	1	Slight
FIRE:	1	Slight
REACTIVITY	0	Minimal

### HMIS® HAZARD RATING

HEALTH:	1	Slight
FIRE:	1	Slight
PHYSICAL:	0	Minimal

**SUPERSEDES MSDS DATED: JUNE 4, 2008**

## Product Information

# Vipel® Isophthalic Based Resin for Underground Sewer Pipe Liners

### TYPICAL LIQUID RESIN PROPERTIES\*(1) Vipel® L704-NET-11 see back page

	Nominal
Viscosity @ 77°F/25°C, RVF Brookfield Spindle #4 @ 20 RPM, cps.	5,600
Thix Index 2/20	4.3
Color	Opaque
Specific Gravity @ 77°F/25°C	1.11
Non-Volatiles, %	62
Gel Time @ 140°F with (1.0% Di-(4-tert-butyl-cyclohexyl) peroxydicarbonate and 0.5% Trigonox® KSM), minutes	11
Pot Life @ 77°F/25°C (1% Di-(4-tert-butyl-cyclohexyl) peroxydicarbonate and + 0.5% Trigonox® KSM), hours	40

Trigonox is a trademark of Akzo Nobel Chemicals

### TYPICAL CAST MECHANICAL PROPERTIES\* (2) see back page

		Test Method
Tensile Strength, psi/MPa	13,500/93.1	ASTM D 638
Tensile Modulus, psi/GPa	600,000/4.1	ASTM D 638
Tensile Elongation, %	3.0	ASTM D 638
Flexural Strength, psi/MPa	23,300/161	ASTM D 790
Flexural Modulus, psi/GPa	630,000/4.3	ASTM D 790
Heat Distortion Temperature, °F/°C @ 264 psi	212/100	ASTM D 648
Barcol Hardness	40	ASTM D 2583

\*Typical properties are not to be construed as specifications.



### DESCRIPTION

The Vipel® L704-NET-11 is a high molecular weight isophthalic/unsaturated polyester resin. Vipel® L704-NET-11 Series provides the corrosion resistance, durability and toughness that is required for cured in place pipe applications. Refer to the AOC Corrosion Resistant Resin Guide for corrosion resistance information listed under Vipel® F701.

### FEATURES

- Excellent catalyzed pot life
- Superior mechanical properties
- High molecular weight
- High viscosity version

### BENEFITS

#### Adaptability

AOC's Vipel® L704-NET-11 molecular architecture provides an excellent balance of corrosion and physical properties.

# Vipel® L704-NET-11 Polyester Resin

## PERFORMANCE GUIDELINES

**A.** Keep full strength catalyst levels between 1.0% - 3.0% of the total resin weight.

**B.** Maintaining shop temperatures between 65°F/ 18°C and 90°F/32°C and humidity between 40% and 90% will help the fabricator make a high quality part. Consistent shop conditions contribute to consistent gel times.

## STORAGE STABILITY

Resins are stable for three months from date of production when stored in the original containers away from sunlight at no more than 77°F/25°C. After extended storage, some drift may occur in gel time.

During the hot summer months, no more than two months stability at 86°F/30°C should be anticipated.

## SAFETY

See appropriate Material Safety Data Sheet for guidelines.

## ISO 9001:2000 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2000 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

## FOOTNOTES

### (1)

The pot life times shown are typical but may be affected by catalyst, promoter and inhibitor concentrations in resin, and environmental temperature. Variations in gelling characteristics can be expected between different lots of catalysts and at extremely high humidities. Pigment and fillers can retard or accelerate gelation. It is recommended that the fabricator check the gelling characteristics of a small quantity of resin under actual operating conditions prior to use.

### (2)

Based on tests on Vipel™ L704-NET-11 pipe at 77°F/25° and 50% relative humidity. Castings were prepared using 1.0% Perkadox 16 and 0.5 Trigonox C.

The information contained in this data sheet is based on laboratory data and field experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability for occurrences arising out of its use. The user, by accepting the products described herein, agrees to be responsible for thoroughly testing each such product before committing to production.

Our recommendations should not be taken as inducements to infringe any patent or violate any law, safety code or insurance regulation.



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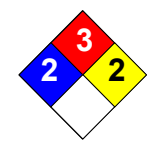

**ASTM F1216 TEST RESULTS ON L704 SERIES  
ONE MONTH RESULTS AT 77°F**

	<b>L704 (Isophthalic)</b>	<b>REQUIREMENTS %</b>	<b>PASS OR FAIL</b>
<b>CONTROL SAMPLE</b>			
FLEXURAL STRENGTH, psi	9,544		
STANDARD DEVIATION	252		
FLEXURAL MODULUS, psi	564,989		
STANDARD DEVIATION	15,329		
<b>TAP WATER</b>			
FLEXURAL STRENGTH, psi	10,915		
STANDARD DEVIATION	432		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	563,496		
STANDARD DEVIATION	10,993		
% FLEXURAL MODULUS RETENTION	100	>80	<b>PASS</b>
<b>5% NITRIC ACID</b>			
FLEXURAL STRENGTH, psi	10,672		
STANDARD DEVIATION	894		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	528,173		
STANDARD DEVIATION	13,842		
% FLEXURAL MODULUS RETENTION	100	>80	<b>PASS</b>
<b>10% PHOSPHORIC ACID</b>			
FLEXURAL STRENGTH, psi	10,301		
STANDARD DEVIATION	1,439		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	552,544		
STANDARD DEVIATION	9,333		
% FLEXURAL MODULUS RETENTION	98	>80	<b>PASS</b>
<b>10% SULFURIC ACID</b>			
FLEXURAL STRENGTH, psi	12,438		
STANDARD DEVIATION	620		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	545,889		
STANDARD DEVIATION	6,319		
% FLEXURAL MODULUS RETENTION	97	>80	<b>PASS</b>
<b>AMOCO GASOLINE</b>			
FLEXURAL STRENGTH, psi	9,209		
STANDARD DEVIATION	1278		
% FLEXURAL STRENGTH, psi RETENTION	97	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	567,531		
STANDARD DEVIATION	4,611		
% FLEXURAL MODULUS RETENTION	100	>80	<b>PASS</b>

<b>VEGETABLE OIL</b>			
FLEXURAL STRENGTH, psi	11,809		
STANDARD DEVIATION	2,484		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	549,755		
STANDARD DEVIATION	27,235		
% FLEXUARAL MODULUS RETENTION	97	>80	<b>PASS</b>
<b>0.1% DETERGENT</b>			
FLEXURAL STRENGTH, psi	8,073		
STANDARD DEVIATION	1,732		
% FLEXURAL STRENGTH, psi RETENTION	85	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	511,284		
STANDARD DEVIATION	15,837		
% FLEXUARAL MODULUS RETENTION	91	>80	<b>PASS</b>
<b>0.1% SOAP</b>			
FLEXURAL STRENGTH, psi	11,756		
STANDARD DEVIATION	325		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	<b>PASS</b>
FLEXURAL MODULUS, psi	549,192		
STANDARD DEVIATION	11,869		
% FLEXURAL MODULUS RETENTION	97	>80	<b>PASS</b>

August 1, 1999

The information contained in this data sheet is based on laboratory data and field experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability for occurrences arising out of its use. The user, by accepting the products described herein, agrees to be responsible for thoroughly testing any application before committing to production. Our recommendation should not be taken as inducements to infringe any patent or violate any law, safety code or insurance regulation.

<p><b>WHMIS (Canada)</b></p>  <p>B-2 D-2A D-2B</p>	<p><b>NFPA (USA)</b></p> <p>Fire: 3, Health: 2, Reactivity: 2</p>  <p>Specific hazard</p>	<p><b>HMIS (USA)</b></p> <table border="1"> <tr> <td>Health hazards</td> <td>* 2</td> </tr> <tr> <td>Flammability</td> <td>3</td> </tr> <tr> <td>Physical hazards</td> <td>2</td> </tr> <tr> <td>Personal protection</td> <td>X</td> </tr> </table>	Health hazards	* 2	Flammability	3	Physical hazards	2	Personal protection	X	<p><b>Protective clothing</b></p> 
Health hazards	* 2										
Flammability	3										
Physical hazards	2										
Personal protection	X										

**Section 1. Chemical product and company identification**

<b>Trade name</b>	L704-NET-11	
<b>Product type</b>	Polyester Resin Solution	
<b>Chemical family</b>	Aromatic.	
<b>Material uses</b>	Used in the manufacture of thermoset plastic parts.	
<b>Manufacturer</b>	AOC, LLC 950 Highway 57 East Collierville, TN U.S.A. 38017 Website: www.aoc-resins.com Phone Number: (901) 854-2800 8am-5pm (Central Time) Mon-Fri	<p><b>In case of emergency</b></p> <p>CHEMTREC (US): 24 hours/7 days (800) 424-9300                  CANUTEC (Canada): 24 hours/7 days (613) 996-6666</p>

**Section 2. Hazards identification**

<b>OSHA status</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Routes of entry</b>	Eye contact, Skin contact, Inhalation, Ingestion
<b>Potential acute health effects</b>	<p><b>Eyes:</b> Severe eye irritant which may result in redness, burning, tearing and blurred vision.</p> <p><b>Skin:</b> Skin irritant which may result in burning sensation. Repeated or prolonged skin contact may cause dermatitis.</p> <p><b>Ingestion:</b> Ingestion may result in mouth, throat and gastrointestinal irritation, nausea, vomiting and diarrhea.</p> <p><b>Inhalation:</b> Inhalation of spray mist or liquid vapors may cause upper respiratory irritation and possible central nervous system effects including headaches, nausea, vomiting, dizziness, drowsiness, loss of coordination, impaired judgement and general weakness.</p>
<b>Potential chronic health effects</b>	<p><b>CARCINOGENIC EFFECTS:</b>  <b>Styrene:</b> Classified A4 (not classifiable for human or animal) by ACGIH. Classified 2B (possible for human) by IARC. An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain since data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic to humans. Lung effects have been observed in mouse studies following repeated exposure.</p> <p><b>Silica, Amorphous:</b> Classified 3 (not classifiable for human) by IARC.</p> <p><b>MUTAGENIC or TERATOGENIC EFFECTS:</b> No known effect according to our database.</p>

**Section 3. Composition/information on ingredients**

Name	CAS #	% by weight
1) Styrene	100-42-5	40.7
2) Silica, Amorphous	7631-86-9	1 - 5

**Section 4. First aid measures**

<b>Eye contact</b>	Flush with a continuous flow of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Use of buffered baby shampoo will aid in removal. Seek medical attention.
<b>Skin contact</b>	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the victim to a safe area as soon as possible. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<b>Ingestion</b>	Do not induce vomiting. Seek immediate medical attention.

**Section 5. Fire-fighting measures**

<b>The product is:</b>	Flammable liquid, Class IC.
<b>Auto-ignition temperature</b>	914°F(490°C) Styrene
<b>Flash point</b>	87.6°F (31°C) Styrene
<b>Flammable limits</b>	<b>Lower:</b> 0.9% <b>Upper:</b> 6.8% (Styrene)
<b>Products of combustion</b>	May produce carbon monoxide, carbon dioxide, and irritating or toxic vapors, gases or particulate.
<b>Fire hazard</b>	Flammable in the presence of open flames, sparks, or heat.
<b>Explosion hazard</b>	Can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Material may polymerize when container is exposed to heat (fire) and polymerization will increase pressure in a closed container which may cause the container to rupture violently.
<b>Fire-fighting media and instructions</b>	SMALL FIRE: Use carbon dioxide, foam, dry chemical or water fog to extinguish. LARGE FIRE: Evacuate surrounding areas. Use carbon dioxide, foam, dry chemical or water fog to extinguish. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. Prevent run off to sewers or other water ways.

**Section 6. Accidental release measures**

<b>Small spill</b>	Absorb with an inert material and place in an appropriate waste disposal container.
<b>Large spill</b>	Stop leak if without risk. Eliminate all ignition sources. Contain with an inert material, recover as much as possible and place the remainder in an appropriate waste disposal container. Warn unauthorized personnel to move away. Prevent entry into sewers or confined areas.

**Section 7. Handling and storage**

<b>Handling</b>	WARNING! Use only in well-ventilated areas. Store away from direct sunlight. Avoid inhalation and contact with eyes, skin, and clothing. Wear appropriate personal protective equipment for your task. Ground and bond all containers when transferring the material. Empty containers may retain product and product vapor. Do not expose to heat, flame, sparks or other ignition sources such as cutting, welding, drilling, grinding or static electricity. Do not pressurize. Provide adequate safety showers and eyewashes in the area of use. Note: If product contains metal compounds (Section III), avoid dust from dried product or grinding of articles made from this material.
<b>Storage</b>	Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Containers should be grounded.

## Section 8. Exposure controls/personal protection

<b>Exposure limits</b>	<p>Styrene</p> <p>Silica, Amorphous</p> <p>While the federal workplace exposure limit for styrene is 100 ppm, OSHA accepted the styrene industry's proposal to voluntarily meet a PEL of 50 ppm on an 8 hours TWA.</p>	<p><b>ACGIH TLV (United States, 2/2010). Absorbed through skin.</b>  TWA: 20 ppm 8 hour(s).  TWA: 85 mg/m<sup>3</sup> 8 hour(s).  STEL: 40 ppm 15 minute(s).  STEL: 170 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>OSHA PEL Z2 (United States, 11/2006).</b>  TWA: 100 ppm 8 hour(s).  CEIL: 200 ppm  AMP: 600 ppm 5 minute(s).</p> <p><b>NIOSH REL (United States, 6/2009).</b>  TWA: 50 ppm 10 hour(s).  TWA: 215 mg/m<sup>3</sup> 10 hour(s).  STEL: 100 ppm 15 minute(s).  STEL: 425 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>NIOSH REL (United States, 6/2009).</b>  TWA: 6 mg/m<sup>3</sup> 10 hour(s).</p>
<b>Engineering controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Provide adequate safety showers and eyewashes in the area of use.	
<b>Personal protection</b>	<p>Personal protective equipment may vary depending on the job being performed.</p> <p><b>Eye/face:</b> Wear eye protection such as safety glasses with side shields, splash goggles or face shield with safety glasses.</p> <p><b>Skin:</b> Avoid skin contact. Impervious gloves should be worn. Other items may include long sleeves, lab coats, or impervious jackets.</p> <p><b>Respiratory:</b> Determine if airborne concentrations are below the recommended exposure limits in accordance your company's PPE program and regulatory requirements. If they are not, select a NIOSH-approved respirator that provides adequate protection from the concentration levels encountered. Air-purifying respirators are generally adequate for organic vapors. Use positive pressure, supplied-air respirators if there is potential for an uncontrolled release, if exposure levels are unknown, or under circumstances where air-purifying respirators may not provide adequate protection. Reference OSHA 29 CFR 1910.134.</p>	
<b>Personal protection in case of a large spill</b>	Chemical resistant gloves, full protective suit, and boots. Respiratory protection in accordance with OSHA regulation 29 CFR 1910.134. A self-contained breathing apparatus should be used to avoid inhalation of the product vapors.	

## Section 9. Physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Color</b>	Clear to Amber.
<b>Odor</b>	Aromatic.
<b>Molecular weight (g/mol)</b>	1000 to 15000
<b>Boiling point</b>	293°F(145°C) Styrene
<b>Melting point</b>	Not available.
<b>pH (1% soln/water)</b>	Not applicable.
<b>Vapor pressure</b>	4.5 mm Hg@ 68°F (20°C) Styrene
<b>Vapor density</b>	3.59 Styrene (Air = 1)
<b>Specific gravity</b>	1.1 (Water = 1)
<b>Water/oil dist. coeff.</b>	Not available.
<b>Evaporation rate</b>	Not available.

**Section 9. Physical and chemical properties**

<b>Odor threshold</b>	0.14 ppm Styrene
<b>Solubility in water</b>	Slight.
<b>Dispersibility properties</b>	Not dispersed in water.

**Section 10. Stability and reactivity**

<b>Stability</b>	This product is normally stable, but can become unstable at elevated temperatures and undergo polymerization, which could produce heat and fumes resulting in over-pressurization and rupture in a closed container.
<b>Instability temperature</b>	>170°F (77°C)
<b>Conditions of instability</b>	Heat.
<b>Incompatibility with various substances</b>	Polymerizes in the presence of organic peroxides, oxidizing materials, or heat.
<b>Corrosivity</b>	Our database contains no additional remark on the corrosivity of this product

**Section 11. Toxicological information**

<b>Toxicity to animals</b>	<b>Name</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>	<b>Exposure</b>
	Styrene	LD50 Oral	Rat	2650 mg/kg	-
		LC50 Inhalation Vapor	Rat	5634.2 ppm	4 hours
<b>Special remarks on toxicity to animals</b>	Lung effects have been observed in mouse studies following repeated exposure.				
<b>Special remarks on chronic effects on humans</b>	No additional remark.				
<b>Special remarks on other toxic effects on humans</b>	No additional remark.				


**Section 12. Ecological information**

<b>Ecotoxicity</b>	Toxic to aquatic organisms. Should not be released to sewage system or other bodies of water at concentrations above limits established in regulations or permits.
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**Section 13. Disposal considerations**

<b>Waste disposal</b>	Recycle to process, if possible. Consult your local or regional authorities. Ignitable characteristic.
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**Section 14. Transport information**

<b>DOT</b>	UN1866; Resin Solution; 3; III.	<b>Labels</b> 
<b>TDG</b>	UN1866; Resin Solution; 3; III.	
<b>IATA/IMDG</b>	UN1866; Resin Solution; 3; III	
<b>Additional information</b>	US regulations require the reporting of spills when the amount exceeds the Reportable Quantity (RQ) for specific components of this material. See CERCLA in Section 15, Regulatory Information, for the Reportable Quantities.	

**Section 14. Transport information****Section 15. Regulatory information****Other regulations**

This section does not reference all applicable regulatory compliance lists.

**TSCA:** All ingredients are listed or compliant with TSCA.

**DSL:** All ingredients are listed or compliant with the NSNR.

**Proposition 65 Warning:** This product contains a chemical(s) known to the State of California to cause cancer, birth defects and/or reproductive harm.

**SARA 302 component(s):** None.

**SARA 313 component(s):** Styrene.

**CERCLA(RQ):** Styrene - 1000 lbs. (453.6 kg)

**Section 16. Other information****Prepared by**

AOC, LLC - Corporate Regulatory Affairs.

CA; FL; ON

**LEGAL DISCLAIMER**

*The information contained in this data sheet is furnished in good faith and without warranty, representation, or inducement or license of any kind, except that it is accurate to the best of AOC, LLC's knowledge, or was obtained from sources believed by AOC, LLC to be reliable. The accuracy, adequacy or completeness of health and safety precautions set forth herein cannot be guaranteed, and the buyer is solely responsible for ensuring that the product is used, handled, stored, and disposed of safely and in compliance with applicable federal, state or provincial, and local laws. AOC, LLC disclaims liability for any loss, damage or personal injury that arises from, or is in any way related to, use of the information contained in this data sheet.*

**CLIENT:** AOC  
950 Hwy 57 East  
Collierville, TN 38017  
Attn: Bruce Curry

Re: PO 5061

**MATERIAL:** One set of fifty rectangular coupons made with 6mm felt impregnated with Vipel™L704 resin were submitted and identified by the client.

**TESTING:** Chemical Resistance testing per ASTM D5813-95, paragraphs 6.4.1 and 8.2.1 was conducted. Coupons were exposed in accordance with ASTM D543-95 in the solutions shown in the table below at room temperature for a one-year immersion period. Flexural properties testing as described below will be conducted at the conclusion of the immersion period.

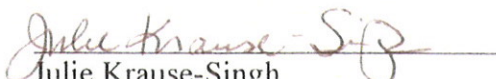
Chemical Solution	Concentration, %
Nitric acid	1
Sulfuric acid	5
ASTM Fuel C	100
Vegetable oil	100
Detergent	0.1
Soap	0.1


One set of Control coupons was tested for initial flexural properties as reported in Hauser Laboratories Test Report No. M00248A on August 31, 1999. A second set of Control coupons was exposed for one year at 50% Relative Humidity, and 23°C. These coupons were tested on August 9, 2000 along with the exposed coupons. All testing was conducted in accordance with ASTM D790-98, Procedure A using a span-to-depth ratio of 16:1.

**RESULTS:** The results are summarized in Table 1 and presented in detail in Table 2. All values exceeded the ASTM D5813 requirements of at least 80% retention of flexural modulus after one-year immersion in all solutions.

**TESTING SUPERVISED BY:**

**TESTING CONDUCTED BY:**

  
Julie Krause-Singh  
Department Manager

  
Dale J. Beasley  
Technician III

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Hauser Laboratories. This report may be copied only in its entirety.





TABLE 1  
SUMMARY OF CHEMICAL RESISTANCE TEST RESULTS

Solution	Average Retention of Flexural Strength*	Average Retention of Flexural Modulus*
	%	%
Nitric Acid	89	96
Sulfuric Acid	103	95
ASTM Fuel C	145	97
Mineral Oil	112	98
Detergent	118	95
Soap	90	94
ASTM D5813 Requirement		80 minimum

\*These calculations were based on the data from the Control sample tested 8/9/00.

TABLE 2  
 CHEMICAL RESISTANCE TEST RESULTS

Specimen No.	Flexural Strength psi	Flexural Modulus psi
Vipel™L704		
Control 8/31/99		
1	4570	736000
2	5300	709000
3	5410	686000
4	4680	682000
5	7600	665000
6	8670	726000
7	8560	681000
Average	6400	698000
Std. Dev.	1820	26300
Control 8/9/00		
1	8530	528000
2	5180	548000
3	7750	548000
4	4520	590000
5	5340	586000
6	4530	556000
Average	5980	559000
Std. Dev.	1730	24200
1% Nitric Acid		
1	5580	528000
2	5650	531000
3	5800	543000
4	4400	527000
5	5080	521000
6	5300	555000
Average	5300	534000
Std. Dev.	510	12700

TABLE 2 CONTINUED  
 CHEMICAL RESISTANCE TEST RESULTS

Specimen No.	Flexural Strength psi	Flexural Modulus psi
5% Sulfuric Acid		
1	5820	530000
2	5220	519000
3	5430	520000
4	5750	545000
5	7550	538000
6	6980	537000
Average	6130	531000
Std. Dev.	930	10300
ASTM Fuel C		
1	10300	521000
2	7640	535000
3	4990	536000
4	8490	574000
5	9080	542000
6	11600	560000
Average	8670	545000
Std. Dev.	2280	19200
Mineral Oil		
1	6680	523000
2	5930	509000
3	7790	582000
4	8610	571000
5	5030	566000
6	6290	548000
Average	6720	550000
Std. Dev.	1290	29000

TABLE 2 CONTINUED  
 CHEMICAL RESISTANCE TEST RESULTS

Specimen No.	Flexural Strength psi	Flexural Modulus psi
<b>Detergent</b>		
1	7320	529000
2	7690	564000
3	4890	514000
4	7480	536000
5	7000	549000
6	7920	507000
Average	7050	533000
Std. Dev.	1100	21600
<b>Soap</b>		
1	5170	508000
2	5410	517000
3	4600	535000
4	5630	526000
5	4330	520000
6	6980	537000
Average	5350	524000
Std. Dev.	940	11100

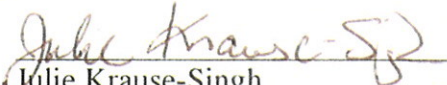
**CLIENT:** AOC  
950 Highway 57 East  
Collierville, TN 38017  
Attn: Dave Treadwell

**MATERIAL:** Six each rectangular specimens from two plastic materials identified as felt composites L471 and L704 were submitted by the client. The specimens were each approximately 6 inches x ½ inch x 0.3 inches.

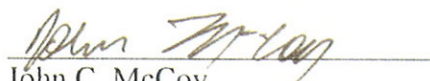
**TESTING:** Flexural creep testing per ASTM D2990-95 using a three-point static-load configuration with a span to depth ratio of approximately 16:1 and a stress level of 400 psi at 23°C and 50% Relative Humidity.

**RESULTS:** The results for 10000 hours are presented as both graphical and tabular data of flexural modulus versus time for each group of five specimens tested. Tabular results for sample L471 are presented in Table 1 and tabular results for sample L704 are presented in Table 2

**TESTING SUPERVISED BY:**

  
Julie Krause-Singh  
Department Manager

**TESTING CONDUCTED BY:**

  
John C. McCoy  
Technician II

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TABLE 2  
 FLEXURAL CREEP DATA  
 SAMPLE L704

TEMPERATURE: 23° C/ 50% RH  
 STRESS: 400 psi

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
0.00						
0.02	810900	879100	649100	664400	739500	748600
0.10	810900	879100	649100	655900	729500	744900
0.20	798400	879100	641200	631600	710300	732100
0.50	774600	865200	633400	631600	710300	723000
1.00	774600	851700	618500	601900	666400	702600
2.00	741400	838600	604300	588000	666400	687800
3.43	720800	825900	597500	574800	658300	675500
22.08	632900	707900	547700	522000	580400	598200
68.58	625300	681300	505500	491900	550800	571000
114.2	570300	656700	469400	465100	509200	534200
257.4	503900	524100	381000	409300	461400	455900
456.0	439800	514200	378200	362800	412100	421400
792.8	393200	454200	339200	332200	374900	378700
1414.3	368100	436000	326600	321800	350500	360600
1651.6	360400	425800	320600	315800	339500	352400
1802.0	341400	400800	303900	292300	325200	332700
2011.3	339200	400800	303900	292300	323200	331900
2109.6	337000	400800	302200	290700	321300	330400
2154.9	337000	397900	302200	290700	321300	329800
2322.8	332700	397900	302200	289000	317500	327900
2660.8	332700	397900	300400	289000	315700	327100
2808.1	330600	395000	300400	287400	313800	325400
3002.1	330600	395000	300400	287400	313800	325400
3193.5	328500	386600	292100	285800	312000	321000
3312.6	314500	378500	288900	278000	305000	313000
3547.9	310800	373300	282700	272100	301600	308100
3618.8	309800	372100	282700	272100	301600	307700
3834.1	308900	370800	282700	272100	299900	306900
4003.4	307100	370800	282700	272100	299900	306500
4171.3	305300	370800	282700	270700	298200	305500
4513.7	300000	365800	281200	267900	295000	302000

TABLE 2 CONTINUED  
 FLEXURAL CREEP DATA  
 SAMPLE L704

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
4676.1	298300	365800	279700	266500	295000	301000
5012.2	298300	363400	278200	265100	295000	300000
5186.1	298300	363400	278200	265100	295000	300000
5392.3	296600	361000	278200	262400	293400	298300
5689.7	296600	361000	276700	262400	293400	298000
5901.7	294900	361000	275300	262400	293400	297400
6021.8	294900	361000	273800	262400	291800	296800
6167.8	291600	361000	273800	259700	290200	295300
6331.0	291600	361000	275300	259700	290200	295500
6719.3	291600	358600	273800	259700	290200	294800
7338.3	283600	349400	268200	254500	281100	287400
7507.1	283600	349400	271000	253300	281100	287700
7866.4	285200	349400	266900	254500	282600	287700
8251.8	285200	347200	266900	253300	281100	286700
8376.1	282100	347200	266900	253300	281100	286100
8512.6	282100	347200	266200	253300	281100	286000
9016.1	279800	345000	266900	252000	278200	284400
9261.1	279000	342800	265500	250800	278200	283300
9324.3	278300	342800	265500	250800	276800	282800
9571.7	278300	342800	265500	249600	276800	282600
9911.3	274600	338600	264200	248400	275400	280200
10025.4	274600	338600	264200	248400	275400	280200

FLEXURAL CREEP DATA SAMPLE L704  
AT 400 PSI STRESS

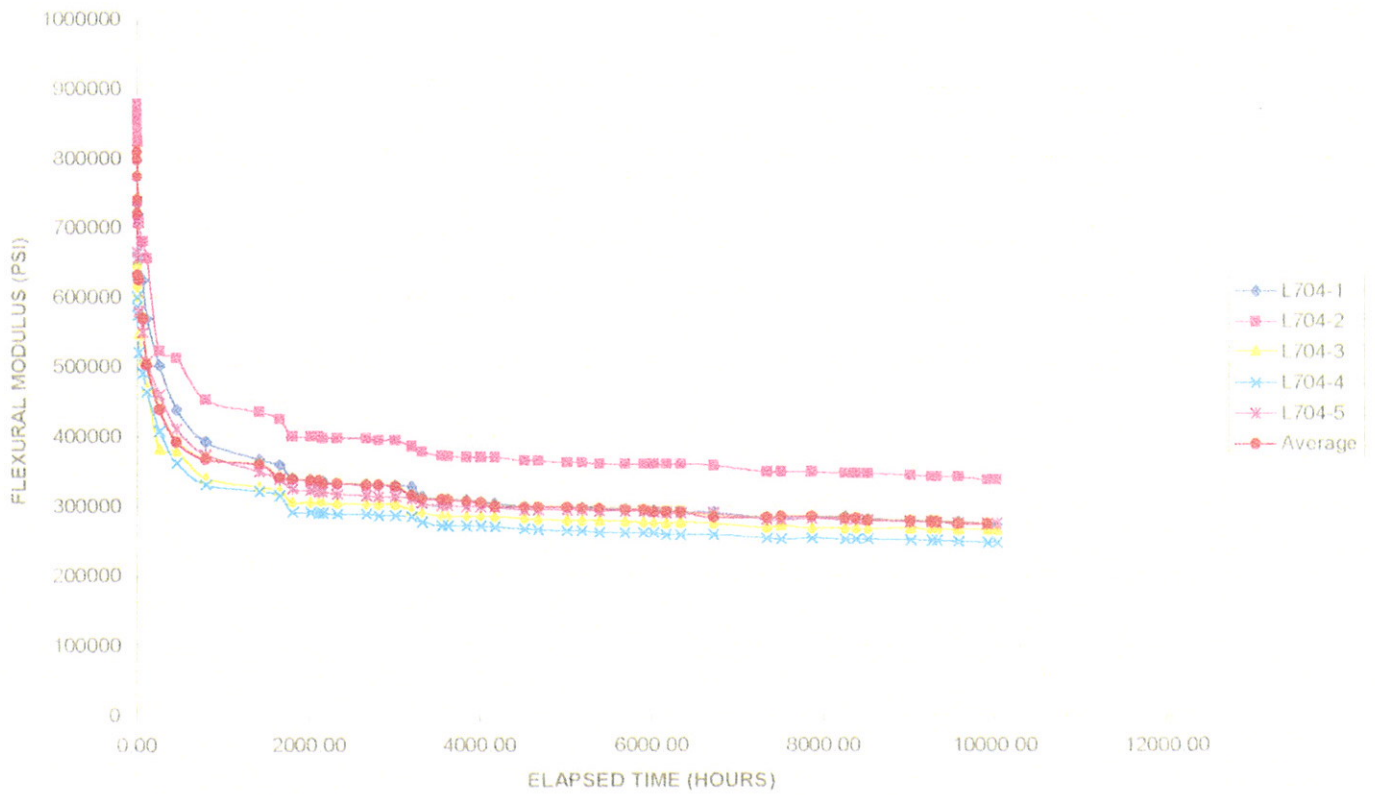




TABLE 1  
 FLEXURAL CREEP DATA  
 SAMPLE L471

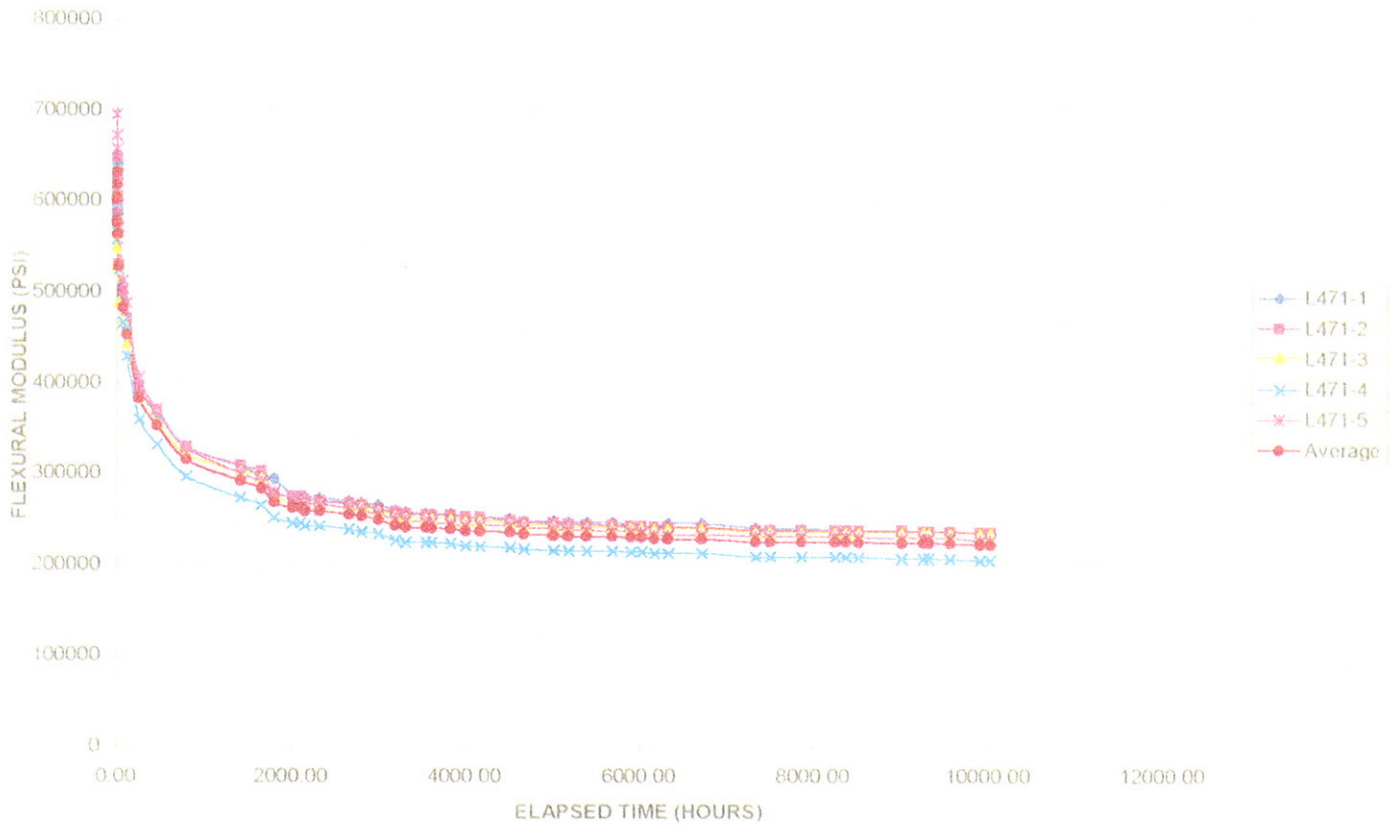
TEMPERATURE: 23° C/ 50% RH  
 STRESS: 400 psi

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
0.00						
0.02	643500	648300	562900	635700	696200	631600
0.10	643500	648300	562900	616100	672900	617300
0.20	629900	626200	547800	603600	658300	603300
0.50	623400	626200	547800	597600	658300	601300
1.00	604500	605600	528900	574600	630900	578200
2.00	598400	605600	528900	569100	630900	576300
3.67	586700	592500	524400	558500	605700	562900
22.4	529600	529900	487000	524200	571400	527500
68.8	498700	501000	468400	466900	513300	482800
114.4	460300	471000	441400	429900	488400	453300
257.6	393700	393600	383500	360000	406500	383300
456.3	367100	369800	354700	332000	371600	352700
793.1	328800	330000	319600	297300	329200	315300
1414.6	308500	309600	302300	274100	299800	292100
1651.9	297700	302800	295000	265600	291200	283900
1802.3	294800	278300	272700	252200	280400	268400
2011.5	275800	275500	269100	245900	272800	262600
2109.8	275800	275500	269100	245900	271600	262200
2155.2	274500	271500	266800	242900	266800	258800
2323.0	273300	270100	266773	242900	266800	258800
2661.0	270800	267500	263300	239000	262200	254900
2808.4	268400	266200	263300	236200	259900	253200
3002.4	266000	261200	258900	234400	255500	249600
3193.7	260200	258700	2535500	227200	250300	243700
3312.9	257900	256300	251466	224700	248200	241400
3548.2	256800	255100	250400	224700	247200	240800
3619.0	255700	255100	250400	224700	246200	240400
3834.4	255700	255100	250400	223800	245200	239800
4003.7	252500	252800	247400	221300	243200	237300
4171.6	252500	252800	247400	220500	243200	237100
4513.9	251400	249300	245400	219700	243233	236124

TABLE 1 CONTINUED  
 FLEXURAL CREEP DATA  
 SAMPLE L471

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
4676.4	248300	247100	243500	218100	241300	234300
5012.4	248300	246000	241600	216500	239400	232500
5186.3	247300	244900	240600	215700	238400	231600
5392.6	247300	244400	240600	215700	238400	231600
5689.9	247300	243800	240600	215700	237500	231300
5901.9	243300	242800	240600	215000	237500	231000
6022.0	242300	242800	240600	215000	236600	230700
6168.1	241300	241700	239700	213400	233800	229000
6331.3	246300	241700	239700	213400	233800	229000
6719.6	246300	241700	239700	213400	233800	229000
7338.6	241300	238600	236000	209700	232100	225900
7507.4	240300	238600	236000	209700	232100	225900
7866.7	240300	238600	236000	209700	232100	225900
8252.1	239400	238600	236000	209700	232100	225900
8376.3	239400	238600	235991	209700	232100	225909
8512.8	238400	238600	236000	209000	231200	225400
9016.3	237500	238600	236000	208200	230300	224800
9261.4	236500	237500	236000	208200	230300	224800
9324.6	236500	237500	236000	208200	230300	224800
9572.0	236500	237500	235100	207500	230300	224800
9911.6	235600	236500	234600	206100	227700	222800
10025.7	235600	236500	234600	206100	227700	222800

FLEXURAL CREEP DATA SAMPLE L471  
AT 400 PSI STRESS





## Nu-Line Technologies, LLC Project References – CIPP/SPR

CIPP Project / Description	Owner / Contact	Contract Amount	Date
<b><u>2014 Wing Ave Flood Control</u></b> Clean/CCTV & CIPP lining of 159 LF of 18-inch & 24-inch Storm Drain, Flow Diversion.	Flatiron/City of El Cajon 1770 La Costa Meadows Drive San Marcos, Ca 92708 Ruben Claudio (760) 916-9100	\$ 33,030.00	<u>Start</u> 5/15/14 <u>Completion</u> 5/28/2014
<b><u>2014 Pipeline Rehabilitation Phase W-1</u></b> CIPP lining of 21,754 LF of 8-inch diameter sanitary sewer. Point Repairs, Manhole Rehabilitation, 425 Top Hats (SLC's) and 425 Lateral Launch Video, 425 4-inch CIPP Lateral Installation.	City of San Diego 525 B Street, Ste. 750 San Diego, CA 92101 Maryam Liaghat (619) 533-5192	\$ 2,465,095.10	<u>Start</u> 6/16/2014 <u>Completion</u> 3/19/2015
<b><u>2014 Sewer Rehabilitation Project No. 9</u></b> CIPP lining of 9,166 LF of 8" & 10" diameter sanitary sewer. Clean & CCTV, Bypass Pumping	Los Angeles Dept. of Public Works 900 South Fremont Ave Alhambra, CA 90014 Attn: Jose Pou (626) 458-2191	\$ 232,000.00	<u>Start</u> 9/2/2014 <u>Completion</u> 10/31/2014
<b><u>2014 Pipeline Rehabilitation Phase X-1</u></b> CIPP lining of 4,092 LF of 6", 8", 10" & 15" diameter sanitary sewer. Point Repairs, Manhole Rehabilitation, 44 Service Lateral Connections and 44 Lateral Launch Video, 44 CIPP Lateral Installation.	City of San Diego 9485 Aero Drive San Diego, CA 92101 Jericho Gallardo (619) 533-7523	\$ 513,000.00	<u>Start</u> 11/21/2014 <u>Completion</u> 3/16/2015
<b><u>2014 Sewer Pipeline and Storm Drain Repairs</u></b> CIPP lining of 3,367 LF of 6", 8" & 18" diameter sanitary sewer & Storm Drain. Point Repairs, Manhole Rehabilitation,	City of Solana Beach 9485 Aero Drive Solana Beach , CA 92075 Taryn Kjolsing (858) 720-2470	\$ 455,414.50	<u>Start</u> 9/22/2014 <u>Completion</u> 11/26/2014
<b><u>2014 Sewer &amp; Water Group 833</u></b> CIPP lining of 3,876 LF of 6", 8" and 10" Sanitary Sewer Main Replacement. Point Repairs, Manhole Rehabilitation, Service Lateral Connections, Bypass Pumping.	City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Bijan Shakiba, (619) 533-5191	\$ 513,000.00	<u>Start</u> 12/1/2014 <u>Completion</u> 1/26/2015
<b><u>2013 Sewer &amp; Water Group 720</u></b> CIPP lining of 621 LF of 6-inch, Sanitary Sewer Main Replacement. Point Repairs, Manhole Rehabilitation, Service Lateral Connections, Bypass Pumping	City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Bijan Shakiba (619) 533-5191	\$ 21,735.00	<u>Start</u> 11/8/2014 <u>Completion</u> 11/8/2014
<b><u>2013 Sewer &amp; Water Group 758</u></b> CIPP lining of 2,612 LF of 8-inch and 10,135 LF sanitary sewer replacement. Point Repairs, Manhole Rehabilitation, 30 (SLC's), CIPP Lateral Installation, Bypass Pumping.	City of San Diego 1200 Third Avenue., Ste. 200 San Diego, CA 92101 Luis Schaar, R.E. (619) 533-4641	\$ 81,518.80	<u>Start</u> 5/29/2014 <u>Completion</u> 12/16/2014





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>2015 Sewer &amp; Water Group 815</u></b> CIPP lining of 545 LF of 8-inch sanitary sewer. Point Repairs, Manhole Rehabilitation, 5 (SLC's), Bypass Pumping.</p>	<p>City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Bijan Shakiba (619)533-5191</p>	<p style="text-align: center;">\$ 29,975.00</p>	<p style="text-align: center;"><u>Completion</u> 2/17/2015</p>
<p><b><u>City of San Diego Skylark Canyon Rehabilitation</u></b> CIPP lining of 1,417 LF of 8-inch sanitary sewer. Bypass Pumping.</p>	<p>Weir Construction Corporation 2255 Barham Drive Escondido, Ca 92029 Brian Weir (760) 743-6776</p>	<p style="text-align: center;">\$ 95,215.00</p>	<p style="text-align: center;"><u>Start</u> 12/24/2014 <u>Completion</u> 1/9/2015</p>
<p><b><u>Back Bay Drive Storm Drain Rehabilitation</u></b> CIPP/SPR lining of 1,892 LF of 12-inch to 42-Inch storm Drain. Bypass Pumping/Dewatering.</p>	<p>City of Newport Beach 100 Civic Center Drive Newport Beach, CA 92660 Peter Tauscher (949) 644-3309</p>	<p style="text-align: center;">\$ 297,208.80</p>	<p style="text-align: center;"><u>Start</u> 1/19/2015 <u>Completion</u> 4/8/2015</p>
<p><b><u>Sewer Capital Improvements Project-Lemon Grove</u></b> CIPP Lining of 3,480 LF of 6-Inch and 8-Inch sanitary Sewer, manhole installations, cleanout installations, bypass pumping.</p>	<p>City of Lemon Grove 3232 Main Street Lemon Grove, Ca 91945 Scott Adamson (858) 413-2400</p>	<p style="text-align: center;">\$ 189,946.00</p>	<p style="text-align: center;"><u>Start</u> 9/28/2015 <u>Completion</u> 10/15/2015</p>
<p><b><u>Bataquitos Force Main (B1/B2) Force Main</u></b> <b><u>City of Leucadia</u></b> Rehabilitation of 383 LF of 21-Inch sanitary sewer Force Main, Carlsbad Blvd from Proto Drive</p>	<p>Leucadia Wastewater District 1960 La Costa Ave Carlsbad Ca, 92009 Robin Morshita (760) 753-0155</p>	<p style="text-align: center;">\$ 76,500.00</p>	<p style="text-align: center;"><u>Start</u> 5/5/2015 <u>Completion</u> 3/6/2015</p>
<p><b><u>Annual Sewer Rehabilitation Program CIP. 15701</u></b> CIPP Lining of 7,702 LF of 6-Inch, 8-Inch, 21-inch and 36-Inch sanitary Sewer and storm drain, manhole installations, cleanout installations, bypass pumping.</p>	<p>City of San Juan Capistrano 32400 Paseo Adelanto San Juan Capistrano CA, 92675 Mike Marquis (949) 443-6326</p>	<p style="text-align: center;">\$ 1,385,061.00</p>	<p style="text-align: center;"><u>Start</u> 8/17/2015 <u>Completion</u> 12/28/2015</p>
<p><b><u>Pipeline Rehab F-2 (Laterals)</u></b> Clean &amp; CCTV of 93,955 LF of sanitary sewer.</p>	<p>City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Ryan Reed (619) 533-5191</p>	<p style="text-align: center;">\$ 101,471.00</p>	<p style="text-align: center;"><u>Start</u> 2/15/2015 <u>Completion</u> 8/25/2015</p>
<p><b><u>Sewer and AC Water Group 752</u></b> CIPP Lining of 5,182 LF of 8-Inch sanitary Sewer and bypass pumping. Clean &amp; CCTV, Top Hats</p>	<p>Public Utilities Department 9150 Topaz Way, MOC 1 San Diego, CA 92123 Ed M. Cartas (585) 614-4564</p>	<p style="text-align: center;">\$ 281,411.00</p>	<p style="text-align: center;"><u>Start</u> 7/9/2015 <u>Completion</u> 7/17/2015</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b>Sewer and AC Water Group 1004</b> CIPP Lining of 948 LF of 8-Inch sanitary Sewer and bypass pumping. Clean &amp; CCTV, 14 Top Hats</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Armin Asadyari (858) 997-7989</p>	<p>\$ 70,159.00</p>	<p><u>Completion</u> 9/15/2015</p>
<p><b>South Oceanside Waterline Replacement</b> Clean &amp; CCTV, Post Video of 5,887 LF 8-Inch New Installation, Manhole Rehabilitation</p>	<p>City of Oceanside 300 North Coast Highway, Oceanside, CA 92054 Greg Keppler (760) 435-5913</p>	<p>\$ 90,092.75</p>	<p><u>Completion</u> 2015</p>
<p><b>Gravity Pipeline Rehabilitation</b> Clean &amp; CCTV, Post Video of 1,887 LF 6-Inch, 8-Inch and 12-Inch sanitary sewer. Sectional Lining</p>	<p>Leucadia Wastewater District 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p>\$ 137,987.00</p>	<p><u>Start</u> 7/9/2015 <u>Completion</u> 9/16/2015</p>
<p><b>Pipeline Rehab Z-1</b> Clean &amp; CCTV, Post Video of 13,500 LF 8-Inch sanitary sewer, SPR/CIPP Lining of 13,500 LF of 8-Inch sanitary sewer and installation of 300 Top Hats</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Dave Engel (619) 549-5451</p>	<p>\$ 507,079.50</p>	<p><u>Start</u> 10/6/2015 <u>Completion</u> 12/11/2015</p>
<p><b>Los Angeles County Dept of Public Work – Project #11</b> SPR/CIPP Lining of 13,842 LF of 8-Inch sanitary Sewer and bypass pumping.</p>	<p>LACDPW 900 South Fremont Avenue Alhambra, California 91803 Tim Bazinet (626) 458-4951</p>	<p>\$ 435,233.50</p>	<p><u>Start</u> 1/18/2016 <u>Completion</u> 2/29/2016</p>
<p><b>Industry Rd Sewer @ Ha-Hana Rd.</b> CIPP Lining of 748 LF of 24-Inch sanitary Sewer and bypass pumping.</p>	<p>Just Construction 3103 Market Street San Diego, CA 92102 (619) 702-4002</p>	<p>\$ 136,127.00</p>	<p><u>Awaiting</u> <u>NTP</u></p>
<p><b>CULVERT REPAIR AND REPLACEMENT FISCAL YEAR 2014-15</b> CIPP/SPR Lining of 499LF of 18-Inch to 42-Inch storm drain culvert.</p>	<p>Tri-Group Construction 9580 Black Mountain Rd Ste. L San Diego, CA 92126 Hani Assi (858) 583-1846</p>	<p>\$ 159,239.00</p>	<p><u>Start</u> 10/5/2015 <u>Completion</u> 11/30/2015</p>
<p><b>Huntington Beach FY 201415 Sewer Lining Project</b> CIPP Lining of 11,189 LF of 8-Inch sanitary Sewer and bypass pumping.</p>	<p>City of Huntington Beach 2000 Main Street, 1<sup>st</sup> Floor Huntington Beach, CA 92648 Jose Fuentes (714) 536-5431</p>	<p>\$ 250,000.00</p>	<p><u>Start</u> 3/1/2016 <u>Completion</u> 4/14/2016</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Encinitas 2014-2015 Annual Storm Drain Rehabilitation</u></b> CIPP Lining of 2,322LF of 12-Inch to 36-Inch storm drain culvert.</p>	<p>City of Encinitas 505 S. Vulcan Encinitas, CA 92024 Kipp Heffner (760) 633-2775</p>	<p>\$ 558,399.00</p>	<p><u>Start</u> 10/5/2015 <u>Completion</u> 3/30/2016</p>
<p><b><u>Sewer and AC Water Group 840</u></b> Final main video of 2,098 LF, 8-Inch sewer</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Avram Yu (858) 573-5084</p>	<p>\$ 3,147.00</p>	<p><u>Completion</u> 9/21/2015</p>
<p><b><u>Sewer Group 798</u></b> Clean &amp; Video, SPR/CIPP Lining of 11,894LF of 8-Inch sanitary sewer, 164 Service Lateral Connections</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Avram Yu (858) 573-5084</p>	<p>\$ 410,114.30</p>	<p><u>Start</u> 12/15/2015 <u>Completion</u> 2/10/2016</p>
<p><b><u>2015 Sewer Repair Project - Rossmoor/Los Alamitos</u></b> Clean &amp; Video, CIPP Lining 2,545 LF of 8-Inch, Point repairs, Top Hats</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 123,124.00</p>	<p><u>Start</u> 3/3/2016 <u>Completion</u> 4/1/2016</p>
<p><b><u>2015 GRAVITY SEWER REHABILITATION</u></b> Clean &amp; Video, CIPP Lining 2,237 LF of 6-Inch, 8-Inch and 12-Inch sanitary sewer, 29 Service Lateral Connections, Bypass Pumping</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p>\$ 161,524.50</p>	<p><u>Start</u> 8/26/2015 <u>Completion</u> 12/23/2015</p>
<p><b><u>CIPP Lining of 15" &amp; 18" CMP Storm Drain</u></b> Clean &amp; Video, CIPP Lining 360 LF of 15-Inch and 18-Inch storm drains.</p>	<p>City of Buena Park 6650 Beach Blvd, Buena Park, Ca 90622 Francisco Gutierrez (714)562-3687</p>	<p>\$ 51,991.00</p>	<p><u>Start</u> 3/3/2016 <u>Completion</u> 3/4/2016</p>
<p><b><u>Storm Drain Lining of 21" to 54"</u></b> Clean &amp; Video, CIPP Lining 2,415 LF of 18-Inch, 21-Inch, 24-Inch, 30-Inch and 36-Inch storm drains, Sectional Repairs, Invert Grouting of storm drains prior to rehabilitation.</p>	<p>City of Chula Vista 1800 Maxwell Road, Chula Vista, CA 91911 Kalani Camacho (619) 921-2922</p>	<p>\$ 433,391.00</p>	<p><u>Start</u> 1/4/2016 <u>Completion</u> 4/21/2016</p>
<p><b><u>Storm Drain Lining 2014-15; Project No. 52716</u></b> Clean &amp; Video, CIPP Lining 2,420 LF of 8-Inch, 10-Inch sanitary sewer, 12-Inch and 18-Inch storm drains, Sectional Repairs, Invert Grouting of storm drains prior to rehabilitation.</p>	<p>City of Fullerton PWD Engineering 303 West Commonwealth Avenue, Fullerton, CA 92832 Vince Oseguera (714) 738-6845</p>	<p>\$ 117,973.00</p>	<p><u>Start</u> 2/22/2016 <u>Completion</u> 4/25/2016</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>The Oaks - CIPP Lining of 36-Inch Storm Drain</u></b> Clean &amp; CCTV 100 LF of 36-Inch storm Drain, Easement access installation of 100 LF of 36-Inch storm Drain, Post Video</p>	<p>Davidson Communities 1302 Camino Del Mar, Del Mar, CA 92014 Tim O'Grady (858) 259-8500</p>	<p style="text-align: center;">\$ 32,000.00</p>	<p style="text-align: center;"><u>Start</u> 4/29/2016 <u>Completion</u> 4/29/2016</p>
<p><b><u>Eastern Municipal Water District 12-Inch Sanitary Sewer</u></b> Clean &amp; CCTV, Rehabilitate 413 LF of 12-Inch Sanitary Sewer, Reinstate 5 Lateral Connections, Bypass Pumping</p>	<p>Eastern Municipal Water District 2270 Trumble Road, Perris, CA 92572-8300 Mark Chamberlin (951) 928-3777</p>	<p style="text-align: center;">\$ 22,715.00</p>	<p style="text-align: center;"><u>Start</u> 2/26/2016 <u>Completion</u> 2/26/2016</p>
<p><b><u>City of Los Angeles – Sewers 5 Program</u></b> Clean &amp; CCTV, Rehabilitate 7,147 LF of 8-Inch, 10-Inch, 16-Inch Sanitary Sewer, Reinstate 160 Lateral Connections, Bypass Pumping, Post Video</p>	<p>Mathew &amp; Stewart Co Inc. 2841 Gardena Ave, Signal Hill, CA 90755 Bruce Flowers (562) 595-5471</p>	<p style="text-align: center;">\$ 304,603.00</p>	<p style="text-align: center;"><u>Start</u> 6/17/2015 <u>Completion</u> On Call</p>
<p><b><u>Rancho Palos Verdes Storm Drain</u></b> Clean &amp; CCTV 134 LF of 18-Inch storm Drain, Easement access installation of 134 LF of 18-Inch storm Drain, Post Video</p>	<p>Grfco Inc Po Box 1747 Brea, CA 92822 Jim Jackson (714) 412-4712</p>	<p style="text-align: center;">\$ 21,942.50</p>	<p style="text-align: center;"><u>Start</u> 12/30/2015 <u>Completion</u> 12/30/2015</p>
<p><b><u>City of San Diego Group 703A</u></b> Clean &amp; CCTV 627 LF of 8-Inch sanitary sewer, Easement access installation of 627 LF of 8-Inch sanitary sewer, Post Video</p>	<p>Weir Construction Corporation 2255 Barham Drive, Escondido, Ca 92029 Allan Weir (760) 743-6776</p>	<p style="text-align: center;">\$ 30,347.50</p>	<p style="text-align: center;"><u>Start</u> 3/8/2016 <u>Completion</u> 3/9/2016</p>
<p><b><u>La Costa Golf Course</u></b> Clean &amp; CCTV 360 LF of 10-Inch sanitary sewer, Easement access installation of 360 LF of 10-Inch sanitary sewer, Post Video</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p style="text-align: center;">\$ 18,720.00</p>	<p style="text-align: center;"><u>Start</u> 11/20/2015 <u>Completion</u> 11/20/2015</p>
<p><b><u>Manning Canyon Sewer and Water Replacement</u></b> Clean &amp; CCTV 15,508 LF of 8-Inch sanitary sewer, Rehabilitate 2,582 LF of 8-Inch sanitary sewer w/SPR, 56 Sewer Lateral Connections, Post CCTV Video of 15,508 LF, Bypass Pumping</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 212,865.00</p>	<p style="text-align: center;"><u>Start</u> 3/22/2016 <u>Completion</u> 2/28/17</p>
<p><b><u>SAN DIEGO PIPELINE AC-1</u></b> Clean &amp; CCTV, Post Video of 40,279 LF 8-Inch sanitary sewer, 889 Lateral Launch Video, SPR/CIPP Lining of 40,279 LF of 6", 8" and 10 -Inch sanitary sewer and installation of 889 Top Hats</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 1,040,214.00</p>	<p style="text-align: center;"><u>Start</u> 4/4/2016 <u>Completion</u> 10/18/2016</p>







## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>SPR Lining of 36-Inch Storm Drain</u></b> Clean &amp; CCTV 140 LF of 36-Inch Storm Drain under 805 Freeway Southbound Lane, Post Video</p>	<p>SKANSKA, Inc. 5196 Governor Drive, San Diego, California 92122 Keith Jackson (858) 646-0921</p>	<p>\$ 85,089.00</p>	<p><u>Start</u> 5/12/2016 <u>Completion</u> 5/14/2016</p>
<p><b><u>Sewer Rehabilitation Project No. 13</u></b> SPR/CIPP lining of 19,943 LF of 8-Inch diameter sanitary sewer, reinstate 459 House connections, Clean &amp; CCTV, Bypass Pumping</p>	<p>Los Angeles Dept. of Public Works 900 South Fremont Ave Alhambra, CA 90014 Joel Zaragoza (626) 458-4973</p>	<p>\$ 476,649.00</p>	<p><u>Start</u> 4/7/2016 <u>Completion</u> 11/8/2016</p>
<p><b><u>Sewer &amp; Water Group 834</u></b> Clean &amp; CCTV, Post Video of 8,996 LF 8-Inch sanitary sewer, Lateral Launch Video, SPR Lining of 975 LF of 10", 12" and 14 -Inch sanitary sewer and installation Top Hats</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 109,284.50</p>	<p><u>Start</u> 3/21/2016 <u>Completion</u> 3/21/2017</p>
<p><b><u>LACDPW CRR. 436</u></b> CIPP lining of 598 LF of 18", 36" and 60-Inch diameter storm drain, Clean &amp; CCTV, Spot Repairs, Frame and Cover Installations</p>	<p>Los Angeles Dept. of Public Works 900 South Fremont Ave Alhambra, CA 90014 Fred Kheradvar (626) 458-4973</p>	<p>\$ 297,203.50</p>	<p><u>Start</u> 5/27/2016 <u>Completion</u> 7/13/2016</p>
<p><b><u>2016 SEWER MAIN CIPP REHABILITATION</u></b> Clean &amp; CCTV, Post Video of 3,700 LF 6", 8" and 10-Inch sanitary sewer, Traffic Control, Bypass Pumping.</p>	<p>Yorba Linda Water District 1717 E. Miraloma Avenue, Placentia, CA 92870 Alex Thomas (714) 701-3115</p>	<p>\$ 189,823.00</p>	<p><u>Start</u> 4/14/2016 <u>Completion</u> 7/28/2016</p>
<p><b><u>SSRP P08 Daly Street &amp; Avenue 26</u></b> Clean &amp; CCTV, Rehabilitate 5,405 LF of 8-Inch Sanitary Sewer, Reinstale 163 Lateral Connections, Bypass Pumping, Post Video</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 258,160.00</p>	<p><u>Start</u> 12/12/2016 <u>Completion</u> 1/31/2018</p>
<p><b><u>City of Los Angeles ESRP #SWCO3077 - Avondale</u></b> Clean &amp; CCTV, Rehabilitate 292 LF of 8-Inch Sanitary Sewer, Reinstale Lateral Connections, Bypass Pumping, Post Video</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 14,600.00</p>	<p><u>Start</u> 6/2/16 <u>Completion</u> 6/2/2016</p>
<p><b><u>City of Los Angeles ESRP #SW02905 - Avondale</u></b> Clean &amp; CCTV, Rehabilitate 134 LF of 8-Inch Sanitary Sewer, Reinstale Lateral Connections, Bypass Pumping, Post Video</p>	<p>Williams Pipeline Contractors, PO Box 1120 Somis, CA 93066 John Williams (805) 207-0148</p>	<p>\$ 8,710.00</p>	<p><u>Start</u> 5/17/2016 <u>Completion</u> 5/17/2016</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>SANITARY SEWER MASTER PLAN PHASE 1</u></b> Clean &amp; CCTV, Post Video of 2,230 LF 8", 10" &amp; 12-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>City of South El Monte 1415 Santa Anita Avenue, South El Monte, CA 91733 Aidan Mousavi (626) 652-3110</p>	<p>\$163,798.00</p>	<p><u>Start</u> 6/7/2016 <u>Completion</u> 10/28/2016</p>
<p><b><u>2016 GRAVITY PIPELINE REHABILITATION PROJECT</u></b> Clean &amp; CCTV, CIPP Lining of 1,280 LF 8" &amp; 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p>\$ 240,000.00</p>	<p><u>Start</u> 7/28/2016 <u>Completion</u> 12/15/2016</p>
<p><b><u>Caltrans No. 08-OJ8104</u></b> Clean &amp; CCTV, SPR &amp; CIPP Lining of 1,160 LF of 18", 24", 30", 36" and 42-Inch Storm Drain, Pipe Repairs, Post Video</p>	<p>Dreambuilder 1324 E. Lawson Ln, Placentia, CA 92870 Anu Singh (714) 646-3697</p>	<p>\$ 311,540.00</p>	<p><u>Start</u> 1/9/2017 <u>Completion</u> 3/3/2017</p>
<p><b><u>HillTop Area Sewer Lining Project</u></b> Clean &amp; CCTV, CIPP Lining of 12,956 LF 6", 8", 10" &amp; 12-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>City of Redding 777 Cypress Avenue, Redding, CA 96001 Darren Langfield (530) 225-4469</p>	<p>\$ 519,330.00</p>	<p><u>Start</u> 7/5/2016 <u>Completion</u> 9/30/2016</p>
<p><b><u>Sewer &amp; Water Group 701</u></b> Clean &amp; CCTV, CIPP Lining of 1,280 LF 8" &amp; 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>City of San Diego 1200 Third Avenue., Ste. 200 San Diego, CA 92101 Luis Schaar, R.E. (619) 533-4641</p>	<p>\$ 27,864.75</p>	<p><u>Start</u> 3/5/2018 <u>Completion</u> 5/7/2017</p>
<p><b><u>Tyrian St and Soledad Ave and AC Water Main</u></b> Clean &amp; CCTV, CIPP Lining of 6-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>PK Mechanical Systems, Inc. 21335 Bundy Canyon Road Wildomar, CA 92595 David Spindler (951) 245-5537</p>	<p>\$ 13,164.00</p>	<p><u>Start</u> 3/15/2017 <u>Completion</u> 3/17/2017</p>
<p><b><u>RFB 7402 San Diego San District</u></b> Clean &amp; CCTV, sectional Lining and Top Hat Installation, 8" VCP sanitary sewer.</p>	<p>County of San Diego 5560 South Overland Avenue, Suite B, San Diego CA 92123 Jaclyn Smith, (858) 505-6367</p>	<p>\$ 5,850.00</p>	<p><u>Start</u> 7/11/2016 <u>Completion</u> 7/12/2016</p>
<p><b><u>City of LA ESR 69th &amp; Vermont</u></b> Clean &amp; CCTV, CIPP Lining of 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 13,777.50</p>	<p><u>Start</u> 5/18/2016 <u>Completion</u> 5/19/2016</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<b>Fresno E. Home Avenue Sewer Rehab</b> Clean & CCTV, CIPP Lining of 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	City of Fresno 2600 Fresno Street, Room 2156 Fresno CA, 93721 Mike Brown (559) 621-1332	\$ 75,255.00	<u>Start</u> 3/15/2017 <u>Completion</u> 6/5/2017
<b>Pacific Beach Pipeline South</b> Video Inspecting 9,000 LF of Pipelines and Culverts for Acceptance.	TC Construction 10540 Prospect Avenue Santee, CA 92071 Elan Schier (619) 820-7811	\$ 41,207.00	<u>Start</u> 4/3/2017 <u>Completion</u> TBD
<b>6-Inch CIPP Lining at U.C.L.A</b> Clean & CCTV, CIPP Lining of 6-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	PipeTec PO Box 2337 Irwindale, CA 91706 Mike Ashker (562) 699-3496	\$ 14,425.00	<u>Start</u> 6/17/2016 <u>Completion</u> 6/17/2016
<b>Mission Trails Collection - Santee 1</b> Video Inspecting 1,001 LF of Pipelines and Culverts for Acceptance.	Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822	\$ 2,862.00	<u>Start</u> 9/1/2016 <u>Completion</u> (R) <u>11/29/2016</u>
<b>City of El Monte – Sewer Lining Project</b> Clean & CCTV, CIPP Lining of 8-Inch and 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	City of El Monte 11333 Valley Blvd El Monte CA 91732 Richard Ruyle (626) 808-1909	\$ 163,098.00	<u>Start</u> 9/27/2016 <u>Completion</u> 11/23/2016
<b>Ross Valley Sanitation</b> Clean & CCTV, CIPP Lining of 22,202 LF of 6-Inch and 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	Ranger Pipelines 1790 Yosemite Ave. San Francisco, CA 94124 Tom Grover (415) 822-3700	\$ 864,999.50	<u>Start</u> 6/12/2017 <u>Completion</u> 5/1/2018
<b>Via De La Valle bridge in Del Mar, CA</b> Clean & CCTV, CIPP Lining of 10-Inch Ductile Iron Pipe, Traffic Control	PAL General Engineering 10675 Treena Street, Ste. 103 San Diego, CA 92131 Diana Hsu (858) 860-5300	\$ 24,235.50	<u>Start</u> 10/26/2016 <u>Completion</u> 10/26/2016
<b>Pipeline Rehabilitation AM-1</b> Clean & CCTV, Post Video of 41,127 LF 8-Inch sanitary sewer, 1,127 Lateral Launch Video, SPR/CIPP Lining of 41,127 LF of 8-Inch sanitary sewer and installation of 1,127 Top Hats	Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822	\$ 1,755,384.50	<u>Start</u> 11/15/2016 <u>Completion</u> (R) 9/23/2019





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b>Fresno Sewer Rehabilitation in Congo and H-Broadway Downtown</b> Clean &amp; CCTV, CIPP Lining of 1,441 LF of 8-Inch and 10-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188</p>	<p style="text-align: center;">\$ 114,434.50</p>	<p style="text-align: center;"><u>Start</u> April 2017 <u>Completion</u> 4/15/2018</p>
<p><b>Massachusetts Avenue Sewer Improvements - La Mesa</b> Clean &amp; CCTV, CIPP Lining of 937 LF of 6-Inch, 8-Inch and 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>S.C. Valley Engineering, Inc. 656 Front St. El Cajon, CA 92020 Kevin Prescott (619) 444-2366</p>	<p style="text-align: center;">\$ 85,709.81</p>	<p style="text-align: center;"><u>Start</u> 12/12/2016 <u>Completion</u> 2/3/2017</p>
<p><b>Sewer Capital Improvements – Lemon Grove</b> Clean &amp; CCTV, CIPP Lining of 112 LF of 6-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>S.C. Valley Engineering, Inc. 656 Front St. El Cajon, CA 92020 Kevin Prescott (619) 444-2366</p>	<p style="text-align: center;">\$ 10,080.00</p>	<p style="text-align: center;"><u>Start</u> 6/1/2015 <u>Completion</u> (R) 10/31/2017</p>
<p><b>Val Sereno Storm Drain Rehabilitation &amp; Extension</b> Clean &amp; CCTV, CIPP Lining of 143LF of 24-Inch storm drain, clearing and grubbing, Traffic Control, Concrete Headwall, Invert Paving Repairs.</p>	<p>City of Encinitas 505 S. Vulcan Avenue Encinitas, CA 92024 Kipp Hefner (760) 633-2775</p>	<p style="text-align: center;">\$ 49,000.00</p>	<p style="text-align: center;"><u>Start</u> 10/27/2016 <u>Completion</u> 11/7/2016</p>
<p><b>Small Diameter Sewer Rehabilitation - 2017-1</b> Clean &amp; CCTV, CIPP Lining of 143LF of 24-Inch storm drain, clearing and grubbing, Traffic Control, Concrete Headwall, Invert Paving Repairs.</p>	<p>AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848</p>	<p style="text-align: center;">\$ 253,674.00</p>	<p style="text-align: center;"><u>Start</u> 3/1/2017 <u>Completion</u> 3/28/2017</p>
<p><b>Fresno Sewer Rehab &amp; Replace in N Central Downtown</b> Clean &amp; CCTV, CIPP Lining of 857 LF of 6-Inch sanitary sewer, lateral reinstatement.</p>	<p>Bill Nelson GEC, Inc. 2741 E. Malaga Avenue Fresno, CA 93725 Jeff Nelson (559) 439-1756</p>	<p style="text-align: center;">\$ 83,942.59</p>	<p style="text-align: center;"><u>Start</u> 4/5/2017 <u>Completion</u> 5/31/2017</p>
<p><b>Trenchless Repair Replacement &amp; Rehab Los Alamos</b> Clean &amp; CCTV, SPR Lining of 1,450 LF of 8-Inch sanitary sewer, lateral reinstatement.</p>	<p>AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848</p>	<p style="text-align: center;">\$ 106,515.00</p>	<p style="text-align: center;"><u>Start</u> 12/12/2016 <u>Completion</u> 12/16/2016</p>
<p><b>Rehabilitation of 2 Sewer Lift Stations 24th St &amp; Oak St</b> Clean &amp; CCTV, CIPP Lining of 486 LF of 15-Inch sanitary sewer, lateral reinstatement.</p>	<p>GSE Construction Company, Inc. 6950 Preston Avenue Livermore, CA 94551 Alexia Leon (925) 447-0292</p>	<p style="text-align: center;">\$ 53,415.00</p>	<p style="text-align: center;"><u>Start</u> 4/5/2017 <u>Completion</u> 10/17/2017</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Yorba Linda Water District 8in DIP</u></b> Clean &amp; CCTV, CIPP Lining of 208 LF of 8-Inch Ductile Iron sanitary sewer, lateral reinstatement.</p>	<p>Murrieta Development Inc. 42540 Rio Nedo Rd. Temecula, CA 92590 Bill Estrada (909) 721-0362</p>	<p style="text-align: center;">\$ 12,376.00</p>	<p style="text-align: center;"><u>Start</u> 11/16/2016 <u>Completion</u> 11/16/2016</p>
<p><b><u>City of Bell - Sewer Modernization Project</u></b> Clean &amp; CCTV, CIPP Lining of 4,839LF of 8-Inch sanitary sewer, lateral reinstatement.</p>	<p>Tunnelworks Services Inc. 13502-H Whittier Blvd. Ste. 165 Whittier, CA 90605 William Duarte (562) 553-2734</p>	<p style="text-align: center;">\$ 142,862.75</p>	<p style="text-align: center;"><u>Start</u> 2/14/2017 <u>Completion</u> 4/10/2017</p>
<p><b><u>I-25 South 18-Inch Sanitary Sewer</u></b> Clean &amp; CCTV, SPR Lining of 550 LF of 18-Inch sanitary sewer, lateral reinstatement.</p>	<p>AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848</p>	<p style="text-align: center;">\$ 168,440.00</p>	<p style="text-align: center;"><u>Start</u> 12/15/2016 <u>Completion</u> 3/31/2017</p>
<p><b><u>Pipeline Rehabilitation AG-1</u></b> Clean &amp; CCTV, SPR/CIPP Lining of 35,992 LF of 8-Inch sanitary sewer and installation of 797 Top Hats</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 1,414,852.50</p>	<p style="text-align: center;"><u>Start</u> 4/3/2017 <u>Completion</u> (R) 4/15/19</p>
<p><b><u>Bonillo Drive Storm Drain</u></b> Cleaning and Video Inspection of 24" Storm Drain</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 2,169.11</p>	<p style="text-align: center;"><u>Start</u> 2/7/2017 <u>Completion</u> 2/7/2017</p>
<p><b><u>Lemon Drive 8-Inch Lining</u></b> Clean &amp; CCTV, CIPP Lining of 10 LF of 10-Inch sanitary sewer.</p>	<p>Yorba Linda Water District 1717 E. Miraloma Avenue, Placentia, CA 92870 Diane Dalton (714) 701-3115</p>	<p style="text-align: center;">\$ 7,385.00</p>	<p style="text-align: center;"><u>Start</u> 3/10/2017 <u>Completion</u> 3/10/2017</p>
<p><b><u>Sunset Lane Easement 8-Inch Lining</u></b> Clean &amp; CCTV, CIPP Lining of 345 LF of 8-Inch sanitary sewer.</p>	<p>Yorba Linda Water District 1717 E. Miraloma Avenue, Placentia, CA 92870 Diane Dalton (714) 701-3115</p>	<p style="text-align: center;">\$ 17,424.75</p>	<p style="text-align: center;"><u>Start</u> 2/27/2017 <u>Completion</u> 2/27/2017</p>
<p><b><u>Sierra Madre Rehab Project</u></b> Clean &amp; CCTV, CIPP Lining of 2,785LF of 8-Inch sanitary sewer.</p>	<p>City of Sierra Madre 232 W. Sierra Madre Blvd Sierra Madre, CA Chris Cimino (626) 335-6615</p>	<p style="text-align: center;">\$ 150,752.50</p>	<p style="text-align: center;"><u>Start</u> 4/6/2017 <u>Completion</u> 6/23/2017</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b>City of Pasadena - La Loma</b> Clean &amp; CCTV, CIPP Lining of 140LF of 8-Inch sanitary sewer, Bypass Pumping.</p>	<p>Ramona Inc 302 N 1st Ave Ste 1 Arcadia, CA 91006 Michael Grbavac (626) 355-1350</p>	<p>\$ 12,950.00</p>	<p><u>Start</u> 3/9/2017 <u>Completion</u> 3/9/2017</p>
<p><b>North Long Beach Sewer Improvement Project</b> Clean &amp; CCTV, CIPP Lining of 4,229LF of 8-Inch, 10-inch and 12-inch sanitary sewer, Bypass Pumping, Traffic Control, Top Hats, Point Repairs.</p>	<p>City of Long Beach 1800 East Wardlow Road, Long Beach, CA 90807 Valeri Karaknov (562) 570-2419</p>	<p>\$ 529,504.35</p>	<p><u>Start</u> 10/2/2017 <u>Completion</u> 12/18/2017</p>
<p><b>2017 CMP Storm Drain Relining and Point Repair</b> Clean &amp; CCTV, CIPP Lining of 912LF of 12-Inch, 15-inch and 18-inch &amp; 21-Inch storm drain, Point Repairs, Traffic Control,</p>	<p>City of Pasadena 100 N. Garfield Ave, Pasadena, CA 91109 Diego Juarez (626) 744-3921</p>	<p>\$ 201,368.10</p>	<p><u>Start</u> 3/5/2018 <u>Completion</u> (R) 6/21/2018</p>
<p><b>CalTrans 12-0Q0604 Huntington Beach CA</b> Clean &amp; CCTV, CIPP Lining of 1,100LF of 12-Inch, 18-inch and 24-Inch storm drain, Point Repairs, Traffic Control,</p>	<p>Jabra Contracting 1813 Manzanita Lane, Manhattan Beach, CA 90266 Bob Collins (310) 545-5015</p>	<p>\$ 113,650.00</p>	<p><u>Start</u> 12/4/2017 <u>Completion</u> 11/6/2017</p>
<p><b>La Mesa 24-Inch Storm Drain</b> CCTV Inspection 24-Inch storm drain</p>	<p>Wayne Pointer 4740 Alta Rica Drive La Mesa, CA 91941 (619) 818-1116</p>	<p>\$ 660.00</p>	<p><u>Start</u> 3/8/2016 <u>Completion</u> 3/8/2016</p>
<p><b>Water &amp; Sewer Group 954</b> Clean &amp; CCTV 1,816LF, CIPP Lining of 1,316LF of 8-Inch sanitary sewer, Traffic Control,</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 55,710.00</p>	<p><u>Start</u> 4/25/2017 <u>Completion</u> 11/3/2018</p>
<p><b>Imperial Beach – Sewer Pump Station 4 &amp; 6 Rehabilitation</b> Clean &amp; CCTV 128LF, CIPP Lining of 128 LF of 8-Inch sanitary sewer, Bypass Pumping, Traffic Control,</p>	<p>NEWest Construction 9235 Trade Pl. Suite A, San Diego, CA 92126 Corey Jennette (858) 436-4880</p>	<p>\$ 14,164.00</p>	<p><u>Start</u> 4/7/2017 <u>Completion</u> 4/13/2017</p>
<p><b>Goleta West Sanitary District Project #16-04</b> Clean &amp; CCTV 5,882 LF, SPR &amp; CIPP Lining of 5,882 LF of 6", 8", 10", 12" 15" &amp; 18-Inch sanitary sewer, Bypass Pumping, Traffic Control, Manhole Rehabilitation at various locations.</p>	<p>Goleta West Sanitary District PO Box 4 Goleta, CA 93116 Mark Nation (805) 968-2617</p>	<p>\$ 566,502.00</p>	<p><u>Start</u> 7/27/2017 <u>Completion</u> 12/8/2017</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>CalTrans No. 07-3W1104 Place Pipeliner &amp; Repair Culverts</u></b> Clean &amp; CCTV, CIPP Lining of 1,400 LF of 18-Inch, 24-inch and 39-Inch storm drain in various locations of San Fernando CA</p>	<p>Jabra Contracting 1813 Manzanita Lane, Manhattan Beach, CA 90266 Bob Collins (310) 545-5015</p>	<p style="text-align: center;">\$ 236,767.50</p>	<p style="text-align: center;"><u>Start</u> 7/10/2017 <u>Completion</u> 9/29/2017</p>
<p><b><u>San Diego Sewer Group 818</u></b> Clean &amp; CCTV 133LF, CIPP Lining of 133LF of 6-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>Dick Miller Jean Grace (760) 471-6842 ext 13</p>	<p style="text-align: center;">\$ 18,569.75</p>	<p style="text-align: center;"><u>Start</u> 6/18/2018 <u>Completion</u> 10/6/2018</p>
<p><b><u>San Diego - AC Water &amp; Sewer Group 1017</u></b> Clean &amp; CCTV 350 LF, CIPP Lining of 350LF of 8-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 20,650.00</p>	<p style="text-align: center;"><u>Start</u> 10/20/2017 <u>Completion</u> (R) 4/30/2019</p>
<p><b><u>Lake Arrowhead Shelter Cove Agua-Fria</u></b> Clean &amp; CCTV 3,170 LF, CIPP Lining of 3,170LF of 8-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>Lake Arrowhead Community Services District 27307 State Highway 189, Blue Jay, CA Richard Pretzinger (909) 336-7139</p>	<p style="text-align: center;">\$ 325,329.00</p>	<p style="text-align: center;"><u>Start</u> 8/7/2017 <u>Completion</u> 10/31/2017</p>
<p><b><u>San Diego - AC Water &amp; Sewer Group 955</u></b> Post Video Inspection 1,796LF various diameters</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 4,041.00</p>	<p style="text-align: center;"><u>Start</u> 3/13/2018 <u>Completion</u> 10/20/2018</p>
<p><b><u>La Mesa 8-Inch Cast Iron Pipe</u></b> Clean &amp; CCTV 8" Cast Iron Pipe x 450ft</p>	<p>PSOMAS 401 B Street, Suite San Diego, CA 92101 Sean Diaz (619) 961-2812</p>	<p style="text-align: center;">\$ 4,000.00</p>	<p style="text-align: center;"><u>Start</u> 6/1/2017 <u>Completion</u> 6/30/2017</p>
<p><b><u>Leucadia 18-Inch Ductile Iron Pipe Rehabilitation</u></b> Clean &amp; CCTV, Cured In Place Lining and end seal 18" Ductile Iron Pipe</p>	<p>CCL Contracting Inc 1938 Don Lee Pl Escondido, CA 92029 Rod Chilcote (760) 743-2254</p>	<p style="text-align: center;">\$ 39,232.00</p>	<p style="text-align: center;"><u>Start</u> 7/23/2017 <u>Completion</u> 7/26/2017</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Sewer Rehabilitation in N Abby and E Hammond</u></b> Clean &amp; CCTV 1,714 LF, SPR Lining of 1,714 LF of 20-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>City of Fresno 2600 Fresno Street, Room 2015, Fresno, CA 93721 Jesus Gonzales (559) 621-1332</p>	<p style="text-align: center;">\$ 702,673.50</p>	<p style="text-align: center;"><u>Start</u> 3/16/2018 <u>Completion</u> 5/24/2018</p>
<p><b><u>LACDPW - Project No. 15</u></b> Clean &amp; CCTV 22,132 LF, SPR &amp; CIPP Lining of 22,132 LF of 8", 10"and 12-Inch sanitary sewer, Bypass Pumping, Traffic Control, Point Repairs at various locations.</p>	<p>LACDPW 900 South Fremont Ave Alhambra, CA 90014 Fred Kheradvar (626) 458-4973 Office</p>	<p style="text-align: center;">\$ 664,667.00</p>	<p style="text-align: center;"><u>Start</u> 10/3/2017 <u>Completion</u> 1/16/2018</p>
<p><b><u>Beale Air Force Base - Repair Sub Basins 1, 2, 3, 9 and MUNS</u></b> Clean &amp; CCTV 5,638 LF, CIPP Lining of 5,638 LF of 6", 8", 10"and 12" and 21-Inch sanitary sewer, Bypass Pumping, Traffic Control, Point Repairs at various locations.</p>	<p>Allright Construction Inc 1485 S. Industrial Way Kerman, CA 93630 Steve Martinez (559) 284-3236</p>	<p style="text-align: center;">\$ 522,566.00</p>	<p style="text-align: center;"><u>Start</u> 7/31/2018 <u>Completion</u> 9/29/2018</p>
<p><b><u>2016-2017 Citywide Annual Sewer Rehabilitation</u></b> Clean &amp; CCTV 17,980 LF, CIPP Lining of 17,980 LF of 6", 8", 10"and 14-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control, Manhole Rehabilitation Point Repairs at various locations.</p>	<p>City of Encinitas 505 S. Vulcan Avenue Encinitas, CA 92024 Kipp Hefner (760) 633-2775</p>	<p style="text-align: center;">\$ 1,351,415.75</p>	<p style="text-align: center;"><u>Start</u> 11/6/2017 <u>Completion</u> 5/18/2019</p>
<p><b><u>Monrovia Renewal – Northwest Area Infrastructure Improvements Project</u></b> Clean &amp; CCTV 6,035 LF, CIPP Lining of 6,035LF of 6"and 8-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control, Manhole Rehabilitation Point Repairs at various locations.</p>	<p>Sully-Miller Contracting, Inc. 135 S. State College Blvd, Brea CA 92821 Jesse Flores (714) 578-9600</p>	<p style="text-align: center;">\$ 335,935.00</p>	<p style="text-align: center;"><u>Start</u> 11/15/2017 <u>Completion</u> (R) 3/31/19</p>
<p><b><u>Sewer System Repair Project- Montclair CA</u></b> Clean &amp; CCTV 766 LF, CIPP Lining of 766 LF of 8-Inch sanitary sewer, Bypass Pumping, Traffic Control at various locations.</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p style="text-align: center;">\$ 31,980.50</p>	<p style="text-align: center;"><u>Start</u> 9/18/2017 <u>Completion</u> 10/9/2017</p>
<p><b><u>Sewer and AC Water Group 764A</u></b> Clean &amp; CCTV 7,791 LF, CIPP Lining of 617 LF of 8-Inch sanitary sewer, Bypass Pumping, Traffic Control at various locations.</p>	<p>KTA Construction 821 Tavern Rd. Alpine, CA Adam Ogden (619) 562-9464</p>	<p style="text-align: center;">\$ 46,611.00</p>	<p style="text-align: center;"><u>Start</u> 2/13/2018 <u>Completion</u> 2/15/2019</p>
<p><b><u>Techite Sewer Replacement, Diversion Structure- Padre Dam</u></b> Clean &amp; CCTV 390 LF, CIPP Lining of 390 LF of 6-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control at various locations.</p>	<p>Charles King Company 2841 Gardena Avenue Signal Hill, CA 90755 Scott King (562) 426-2974</p>	<p style="text-align: center;">\$ 36,864.00</p>	<p style="text-align: center;"><u>Start</u> 1/24/2018 <u>Completion</u> 3/31/2018</p>







## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Sewer Rehabilitation Project 2016/2017</u></b> Clean &amp; CCTV 8,620 LF, CIPP Lining of 8,620 LF of 8” and 10-Inch sanitary sewer, Top Hats, Bypass Pumping, Point Repairs and Traffic Control at various locations.</p>	<p>City of West Hollywood 5 Hutton Centre Drive, Suite 500 Santa Ana, CA 92707 Kieler Smith (949) 330-4172</p>	<p style="text-align: center;">\$ 861,970.00</p>	<p style="text-align: center;"><u>Start</u> 12/11/2017 <u>Completion</u> 9/22/2018</p>
<p><b><u>2017 CMP Repairs – City of Poway</u></b> Clean &amp; CCTV 1,031 LF, CIPP Lining of 1,031 LF of 18” and 24-Inch storm drain, Invert Repairs, Point Repairs and Traffic Control at various locations.</p>	<p>City of Poway 13325 Civic Center Drive Poway, CA 92064 Brian Banzuelo (858) 668-4623</p>	<p style="text-align: center;">\$ 318,244.00</p>	<p style="text-align: center;"><u>Start</u> 11/10/2017 <u>Completion</u> 12/27/2017</p>
<p><b><u>18-inch Storm Drain Rehabilitation</u></b> Clean &amp; CCTV 1,308 LF, CIPP Lining of 1,280 LF of 18” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>The Gill Company 28069 Diaz Rd, Suite B Temecula, CA 92590 Darren Gill (951)501-5623</p>	<p style="text-align: center;">\$ 108,191.00</p>	<p style="text-align: center;"><u>Start</u> 12/11/2017 <u>Completion</u> 2/1/2018</p>
<p><b><u>JOC Task P15S004</u></b> Clean &amp; CCTV 69 LF, CIPP Lining of 69 LF of 24” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 12,915.00</p>	<p style="text-align: center;"><u>Start</u> 4/26/2018 <u>Completion</u> 4/26/2018</p>
<p><b><u>Caltrans – Contract No. 08-0Q6804</u></b> Clean &amp; CCTV 520 LF, CIPP Lining of 520 LF of 18” &amp; 24” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>American Pacific Construction 7161 Citrus Valley Ave Eastvale, CA 92880 Ashish Sehgal (559) 577-9999</p>	<p style="text-align: center;">\$ 130,875.00</p>	<p style="text-align: center;"><u>Start</u> 2/1/2018 <u>Completion</u> 4/25/2018</p>
<p><b><u>Caltrans – Contract No. 08-0Q6904</u></b> Clean &amp; CCTV 1,810 LF, CIPP Lining of 1,810 LF of 24” and 30” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>United Engineering &amp; Cons., Inc., 336 N. Central Ave. 10A Glendale, CA 91203 Reza Fard (818) 662-8055</p>	<p style="text-align: center;">\$ 381,090.00</p>	<p style="text-align: center;"><u>Start</u> 2/1/2018 <u>Completion</u> 5/23/2018</p>
<p><b><u>Lake Helix Sewer Rehabilitation</u></b> Clean &amp; CCTV 344LF LF, CIPP Lining of 344LF of 8” sanitary sewer, invert grouting and Traffic Control at various locations.</p>	<p>United Engineering &amp; Cons., Inc., 336 N. Central Ave. 10A Glendale, CA 91203 Reza Fard (818) 662-8055</p>	<p style="text-align: center;">\$ 381,090.00</p>	<p style="text-align: center;"><u>Start</u> 2/1/2018 <u>Completion</u> 5/23/2018</p>
<p><b><u>FY2016/17 Gravity Sewer Rehabilitation Project</u></b> Clean &amp; CCTV, CIPP Lining of 24,064 LF of 6-Inch and 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Ranger Pipelines 1790 Yosemite Ave. San Francisco, CA 94124 Tom Grover (415) 822-3700</p>	<p style="text-align: center;">\$ 1,072,720.00</p>	<p style="text-align: center;"><u>Start</u> 7/24/2018 <u>Completion</u> 10/30/2019</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Rehabilitate 10-Inch Siphon</u></b> Clean &amp; CCTV, CIPP Lining of 250 LF of 10-Inch sanitary sewer siphon, Traffic Control, Bypass Pumping.</p>	<p>City of Laguna Beach Water Quality Department 505 Forest Avenue Laguna Beach, CA 92651 Hannah Johnson (949) 464-6615</p>	<p style="text-align: center;">\$ 56,625.00</p>	<p style="text-align: center;"><u>Start</u> 12/1/2017 <u>Completion</u> 12/5/2017</p>
<p><b><u>Culvert Repair and Replacement Fiscal Year 2016-17, Oracle Project No. 1020695</u></b> Clean &amp; CCTV, CIPP Lining of 721 LF of 18", 24", 30", 42" and 71 x 47-Inch storm drain, Traffic Control and invert repairs.</p>	<p>Tri-Group Construction 9580 Black Mountain Road, Ste L San Diego CA, 92126 Hani Assi (858) 689-0058</p>	<p style="text-align: center;">\$ 262,898.00</p>	<p style="text-align: center;"><u>Start</u> 2/22/2018 <u>Completion</u> 5/30/2018</p>
<p><b><u>CIPP Lining of 18" CMP Storm Drain &amp; Void Repair</u></b> Clean &amp; CCTV, CIPP Lining of 100 LF of 18-Inch storm drain, Traffic Control and invert repairs.</p>	<p>City of Buena Park 6955 Aragon Circle Buena Park, Ca 90622 Frank Moore (714) 562-3708</p>	<p style="text-align: center;">\$ 30,000.00</p>	<p style="text-align: center;"><u>Start</u> 12/18/2018 <u>Completion</u> 12/22/2018</p>
<p><b><u>Regal Road Sewer Main Extension</u></b> Clean &amp; CCTV 133 LF of 8-Inch sanitary sewer and Traffic Control.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 1,100.00</p>	<p style="text-align: center;"><u>Start</u> 1/18/2018 <u>Completion</u> 1/18/2018</p>
<p><b><u>Sewer &amp; Water Group -701</u></b> Clean &amp; CCTV 10,013 LF of 8-Inch sanitary sewer, Rehabilitate 8-inch Sewer, Top Hats and Traffic Control.</p>	<p>Ortiz Corporation 2000 Mc Kinley Avenue National City, CA 91950 Jose Ortiz (619) 434-7925</p>	<p style="text-align: center;">\$ 27,864.00</p>	<p style="text-align: center;"><u>Start</u> 3/5/2018 <u>Completion</u> (R) 6/15/2018</p>
<p><b><u>Brio &amp; Symphony 12" CIPP</u></b> Clean &amp; CCTV 336 LF of 12-Inch sanitary sewer, Rehabilitate 12-inch Sewer and Traffic Control.</p>	<p>National Plant Services, Inc. 1461 Harbor Avenue Long Beach, CA 90813 Jeff Garcia (562) 436-7600</p>	<p style="text-align: center;">\$ 26,880.00</p>	<p style="text-align: center;"><u>Start</u> 2/6/2018 <u>Completion</u> 2/6/2018</p>
<p><b><u>Contract No. 02-4G2504 Replace and Rehabilitate Culverts, and Construct RSP</u></b> Clean &amp; CCTV 460 LF of 21" &amp; 24-Inch storm drain, Rehabilitate 21" &amp; 24-inch storm drain with SPR.</p>	<p>R. Brown Construction Company, Inc. P.O. Box 406 Willow Creek, CA 95573 Roger Brown (530) 629-3702</p>	<p style="text-align: center;">\$ 154,060.00</p>	<p style="text-align: center;"><u>Start</u> 7/1/2018 <u>Completion</u> 7/28/2018</p>
<p><b><u>Ceres Trunk Rehabilitation Project No. 2017-23</u></b> Clean &amp; CCTV 723 LF of 21-Inch sanitary sewer, Rehabilitate 21-inch sanitary sewer with cured in place liner.</p>	<p>Rolfe Construction 3573 Southern Pacific Ave Atwater, CA 95301 Jorge C. Avelar (209) 358-5548</p>	<p style="text-align: center;">\$ 133,241.00</p>	<p style="text-align: center;"><u>Start</u> 3/19/2019 <u>Completion</u> 3/21/2019</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b>Caltrans 08-0Q6904 Culvert Repair</b> Clean &amp; CCTV 1,810 LF of 24" &amp; 30-Inch storm drain, Rehabilitate 21" &amp; 24-inch storm drain with CIPP, Cement Spray &amp; SPR lining systems.</p>	<p>United Engineering &amp; Construction, Inc., 336 N. Central Ave. 10A Glendale, CA 91203 Reza Fard (818) 662-8055</p>	<p style="text-align: center;">\$ 981,090.00</p>	<p style="text-align: center;"><u>Start</u> 2/21/2018 <u>Completion</u> 6/23/2018</p>
<p><b>FY 2018 Gravity Pipeline CIPP Lining Rehabilitation Project</b> Clean &amp; CCTV 7,410 LF of 8", 12" 14" &amp; 15-Inch sanitary sewer, Point repairs, top hats, manhole rehab.</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p style="text-align: center;">\$ 667,998.00</p>	<p style="text-align: center;"><u>Start</u> 5/21/2018 <u>Completion</u> (R) 7/29/19</p>
<p><b>Renewal South Area Infrastructure Improvements</b> Clean &amp; CCTV 2,850 LF of 6", 8" &amp; 15-Inch sanitary sewer, Point repairs, top hats, sectional lining.</p>	<p>Sequel Contractors, Inc 13546 Imperial Hwy., Santa Fe Springs, CA 90670</p>	<p style="text-align: center;">\$ 215,569.00</p>	<p style="text-align: center;"><u>Start</u> 7/2/2018 <u>Completion</u> 1/17/2019</p>
<p><b>Pipeline Rehabilitation AK-1</b> Clean &amp; CCTV, SPR/CIPP Lining of 29,295 LF of 8-Inch sanitary sewer and installation of 497 Top Hats</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 993,200.00</p>	<p style="text-align: center;"><u>Start</u> 4/25/2018 <u>Completion</u> (R) 7/3/2019</p>
<p><b>Cal State San Bernardino Sewer Lining Quote</b> Clean &amp; CCTV, SPR/CIPP Lining of 380 LF of 6-Inch and 10-Inch sanitary sewer.</p>	<p>W.A. Rasic Construction Company, Inc. 4150 Long Beach Blvd. Long Beach, CA 90807 Keith Fouts (562) 928-6111</p>	<p style="text-align: center;">\$ 35,700.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b>City of San Diego - Water and Sewer Group 966</b> Clean &amp; CCTV 3,462LF, SPR/CIPP Lining of 477 LF of 12-Inch sanitary sewer and installation of 2 Top Hats</p>	<p>El Cajon Grading &amp; Engineering Co. Inc P.O. Box 967 Lakeside, Ca 92040 Wendy Frisch (619) 561-9840</p>	<p style="text-align: center;">\$ 49,355.00</p>	<p style="text-align: center;"><u>Start</u> 9/20/2018 <u>Completion</u> 10/29/2018</p>
<p><b>8-Inch Sanitary Sewer Rehabilitation</b> Clean &amp; CCTV 640 LF, CIPP Lining of 640 LF of 8-Inch sanitary sewer and Top Hats</p>	<p>City of Carlsbad 1200 Carlsbad Village Drive Carlsbad, CA 92008 Don Wasco (619) 561-9840</p>	<p style="text-align: center;">\$ 30,665.00</p>	<p style="text-align: center;"><u>Start</u> 6/22/2018 <u>Completion</u> 6/25/2018</p>
<p><b>Lining of IVY Glenn Drive Storm Drain Facilities</b> Clean &amp; CCTV 1,200LF, CIPP Lining of 1,200 LF of 18-Inch storm drain.</p>	<p>City of Laguna Niguel, Public Works Department 30111 Crown Valley Pkwy Laguna Niguel, CA 92677 JC Herrera (949) 362-4337</p>	<p style="text-align: center;">\$ 95,000.00</p>	<p style="text-align: center;"><u>Start</u> 5/2/2018 <u>Completion</u> 6/15/2018</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Country Club Infiltration Project</u></b> Clean &amp; CCTV 2,620LF, CIPP Lining of 2,620 LF of 18", 24", 36" 42" &amp; 48-Inch storm drain. Point Repairs Dewatering.</p>	<p>City of Coronado 1825 Strand Way, Coronado, CA 92118 Katherine Odiorne (619) 522-2424</p>	<p>\$ 1,370,000.00</p>	<p><u>Start</u> 5/24/2018 <u>Completion</u> 12/21/2018</p>
<p><b><u>City of San Joaquin - Sewer Collection System Improvements Project</u></b> Clean &amp; CCTV 17,585 LF of 6', 8", 10", 12" &amp; 16-Inch sanitary sewer, Rehabilitate 17,585 LF various diameters sanitary sewer with cured in place liner.</p>	<p>Rolfe Construction 3573 Southern Pacific Ave Atwater, CA 95301 Jorge C. Avelar (209) 358-5548</p>	<p>\$ 598,972.50</p>	<p><u>Start</u> 8/7/2018 <u>Completion</u> 4/27/2019</p>
<p><b><u>El Cajon Sewer &amp; Storm Drain Repair &amp; Replacement</u></b> Clean &amp; CCTV 8,589 LF of 6-inch to 60-Inch sanitary sewer &amp; storm drain, Rehabilitate 8,589 LF various diameters sanitary sewer and storm drain with cured in place liner.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 701,604.00</p>	<p><u>Start</u> 6/11/2018 <u>Completion</u> 3/11/2019</p>
<p><b><u>San Rafael Storm Drain (Lindaro Pump Station)</u></b> Clean &amp; CCTV 250LF, CIPP Lining of 250 LF of 24-Inch storm drain. Point Repairs Dewatering.</p>	<p>Terra Pacific Group 201 N. Civic Drive, Suite 135 Walnut Creek, CA 94596 Pat Barrese (925) 667-7464</p>	<p>\$ 202,750.00</p>	<p><u>Start</u> 9/24/2019 <u>Completion</u> 9/26/2019</p>
<p><b><u>Caltrans 12-0Q7504 Culvert Repair</u></b> Clean &amp; CCTV 1,730 LF of 18", 24" &amp; 30-Inch storm drain, Rehabilitate 18", 24" &amp; 30-inch storm drain with CIPP lining system.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 199,140.00</p>	<p><u>Start</u> 9/17/2018 <u>Completion</u> (R) 1/29/2018</p>
<p><b><u>Lake Helix Sewer Rehabilitation</u></b> Clean &amp; CCTV 344 LF of 8 cast-iron sanitary sewer, Rehabilitate with CIPP lining system.</p>	<p>City of La Mesa 8130 Allison Avenue La Mesa CA, 91942 Casey Crown (619) 667-1380</p>	<p>\$ 48,422.00</p>	<p><u>Start</u> 7/17/2018 <u>Completion</u> 8/31/2018</p>
<p><b><u>Sanitary Sewer Rehab and Replacement Prgm Project</u></b> <u>1</u> Clean &amp; CCTV 10,594 LF of 8", 10" &amp; 12" sanitary sewer, UV Sectionals &amp; Top Hats, Rehabilitate with CIPP lining system.</p>	<p>City of Long Beach 333 W. Ocean Blvd/7th Floor Long Beach, CA 90802 Valeri Karakanov (562) 570-2331</p>	<p>\$ 575,000.00</p>	<p><u>Start</u> 10/9/2018 <u>Completion</u> (R) 3/27/2019</p>
<p><b><u>RFP - Sewer Cured in Place Pipe Repairs 2018</u></b> Clean &amp; CCTV 3,308 LF of 8" &amp; 10" sanitary sewer, Top Hats, Rehabilitate with CIPP lining system.</p>	<p>Padre Dam Municipal Water District 9300 Fanita Parkway Santee, CA 719003 (619) 258-4635</p>	<p>\$ 200,003.00</p>	<p><u>Start</u> 9/27/2018 <u>Completion</u> (R) 5/14/2019</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Santa Barbara – Anacapa St 8” Emergency</u></b> Clean &amp; CCTV 290 LF of 8” sanitary sewer. Rehabilitate with SPR lining system.</p>	<p>City of Santa Barbara Public Works 630 Garden Street Santa Barbara, CA 93101 Bradley Rahrer (619) 258-4635</p>	<p>\$ 36,270.00</p>	<p><u>Start</u> 6/19/2018 <u>Completion</u> 6/19/2018</p>
<p><b><u>CalTrans 07-3W9704 -105 Freeway</u></b> Clean &amp; CCTV 1,320 LF of 18”, 24”, 30” &amp; 36” CMP storm drain. Rehabilitate with CIPP lining system.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 227,790.00</p>	<p><u>Start</u> 8/7/2018 <u>Completion</u> 11/17/2018</p>
<p><b><u>2018 Sewer Main Rehabilitation Project</u></b> Clean &amp; CCTV 14,425 LF of 8” &amp; 10” rehabilitate sanitary sewer with CIPP lining system.</p>	<p>Ojai Valley Sanitary District 1072 Tico Road Ojai , CA 93023 Jon Turner (805) 658-6800</p>	<p>\$ 425,000.00</p>	<p><u>Start</u> 10/8/2018 <u>Completion</u> 4/20/2019</p>
<p><b><u>CIP 18-100 CIPP Lining of Sanitary Sewer System</u></b> Clean &amp; CCTV 30,480 LF of 6”, 8”, 10”, 15” &amp; 18” rehabilitate sanitary sewer with CIPP lining system.</p>	<p>City of Laguna Beach 505 Forest Avenue Laguna Beach, CA 92651 Hannah Johnson (949) 464-6615</p>	<p>\$ 1,259,748.00</p>	<p><u>Start</u> 9/6/2018 <u>Completion</u> (R) 10/22/2019</p>
<p><b><u>Summerland Emergency 8” Cast Iron Repair</u></b> Clean &amp; CCTV 150 LF of 8”, rehabilitate sanitary sewer with SPR lining system.</p>	<p>CUSHMAN CONTRACTING CORP. P.O. Box 147 Goleta, California Blair Cushman (805) 964-8661</p>	<p>\$ 30,025.00</p>	<p><u>Start</u> 8/27/2018 <u>Completion</u> 8/28/2018</p>
<p><b><u>ESR City of Los Angeles - Bonnie Brae</u></b> Clean &amp; CCTV 110 LF of 8” sanitary sewer with CIPP lining system.</p>	<p>Pipe Tec 5103 Elton Street Baldwin Park, CA 91706 Tom Vukojevic (626) 222-1998</p>	<p>\$ 19,060.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b><u>Palisades Slip Lining Phase 2</u></b> Clean &amp; CCTV 2,348 LF of 6” sanitary sewer. Rehabilitate with CIPP lining system and install new manhole structures &amp; cleanouts.</p>	<p>Lake Arrowhead Comm. Services PO Box 700 Lake Arrowhead, CA 92352 Scott Schroeder (909) 336-7136</p>	<p>\$ 366,930.00</p>	<p><u>Start</u> 10/30/2018 <u>Completion</u> 1/15/2019</p>
<p><b><u>AC Water &amp; Sewer Group 1018</u></b> Clean &amp; CCTV 1,000 LF of 8” sanitary sewer. Rehabilitate 1,953 with CIPP lining system and install UV Top Hats.</p>	<p>Orion Construction Corp. Rob Wilson (760) 597-9660</p>	<p>\$ 192,402.50</p>	<p><u>Start</u> 3/21/2019 <u>Completion</u> 4/8/2019</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<b><u>City of Vista - Pilot Project Information</u></b> Clean & CCTV 329 LF of 8" sanitary sewer. Rehabilitate with SPR lining system.	City of Vista 200 Civic Center Drive Vista CA 92804 Elmer Alex (760) 726-1340	\$ 15,802.00	<u>Start</u> 10/18/18 <u>Completion</u> 10/18/18
<b><u>Fulton Road Rehab</u></b> Clean & CCTV 1,592 LF of 8" sanitary sewer. Rehabilitate with CIPP & SPR lining systems.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 200,525.00	<u>Start</u> 6/2/2018 <u>Completion</u> 8/13/18
<b><u>JOC - Sewer Rehab Phase AT-1</u></b> Clean & CCTV 39,685 LF of 8" sanitary sewer. Rehabilitate with CIPP & SPR lining systems, install 1,023 UV Top Hats & Post Video.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 1,907,764.00	<u>Start</u> 12/28/2018 <u>Completion</u> 10/31/2019
<b><u>CMP Rehabilitation FY 2017-18 Measure P</u></b> 20,659 LF of 18" to 54" CMP Storm Drain Repairs. Rehabilitate with CIPP & SPR lining systems.	Spiniello Companies 2650 Pomona Blvd. Pomona, CA 91768 Abby De La Cruz (562) 305-5219	\$ 1,984,764.00	<u>Start</u> 2/14/19 <u>Completion</u> 10/30/2019
<b><u>LACSD Belvedere Trunk Sewer Rehabilitation</u></b> 10,260 LF of 15", 21" & 24" sanitary sewer. Rehabilitate with CIPP lining systems.	Spiniello Companies 2650 Pomona Blvd. Pomona, CA 91768 Eugenio Mateo (562) 458-7757	\$ 1,248,340.00	<u>Start</u> 1/2/19 <u>Completion</u> 3/19/19
<b><u>SKF Gilroy 18th Avenue Sewer Project</u></b> 797 LF of 12", 14" & 18" sanitary sewer. Rehabilitate with SPR lining systems.	Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188	\$ 155,713.00	<u>Start</u> 12/8/2018 <u>Completion</u> (R) 10/18/2019
<b><u>Santa Monica - FY 17/18 Annual Wastewater Main Improvements</u></b> Clean & CCTV 2,135 LF of 8" sanitary sewer. Rehabilitate with CIPP lining system, install UV Top Hats.	Mike Prlich & Sons Inc. 5103 Elton St Baldwin Park, CA 91706 Lonny Lavin (626) 813-1700	\$ 156,265.00	<u>Start</u> TBD <u>Completion</u> TBD
<b><u>Vellicitos Rock Springs Sewer Replacement</u></b> Clean & CCTV 2,701 LF of 8", 12" & 15" sanitary sewer. Rehabilitate 303 LF with CIPP lining system.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 20,814.00	<u>Start</u> 3/22/2019 <u>Completion</u> (R) 10/2/2019





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>JOC - Sewer Rehab Phase AO-1</u></b> Clean &amp; CCTV 42,800 LF of 8", 10" &amp; 12" sanitary sewer. Rehabilitate with CIPP &amp; SPR lining systems, install 413 UV Top Hats &amp; Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p>\$ 1,332,009.00</p>	<p><u>Start</u> 4/25/19 <u>Completion</u> On-Going</p>
<p><b><u>Caltrans – State Minor B, Solicitation No. 10A2041</u></b> Clean &amp; CCTV 85 LF of 18" &amp; 30" storm drain. Rehabilitate with CIPP lining systems, install 85LF &amp; Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 62,850.00</p>	<p><u>Start</u> 6/11/19 <u>Completion</u> 9/30/2019</p>
<p><b><u>(SSRP) H31 Beachwood Drive &amp; Scenic Avenue</u></b> Clean &amp; CCTV 12,419 LF of 6" &amp; 8" sanitary sewer. Rehabilitate with CIPP lining systems, install 12,419 LF, Top Hats &amp; Post Video.</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 Joe Vasilj (626) 480-1442</p>	<p>\$ 1,120,089.00</p>	<p><u>Start</u> 9/19/18 <u>Completion</u> On-Going</p>
<p><b><u>La Costa Avenue - Storm Drain Improvements</u></b> Pre and Post Clean &amp; CCTV of 15" &amp; 18" Storm Drain.</p>	<p>Tri-Group Construction, Inc. 9580 Black Mountain Road, Ste L San Diego CA, 92126 Hani Assi (858) 689-0058</p>	<p>\$ 5,020.00</p>	<p><u>Start</u> 2/1/2019 <u>Completion</u> (R) 4/9/2019</p>
<p><b><u>PAL Project – Lateral Launch and Locate</u></b> Lateral Launch &amp; CCTV of 56 sanitary sewer laterals.</p>	<p>Burtech Plumbing 102 Second Street Suite C Encinitas CA, 92024 Bill Schramm (760) 305-2016</p>	<p>\$ 17,180.00</p>	<p><u>Start</u> 11/15/2018 <u>Completion</u> 5/25/2019</p>
<p><b><u>City of Lynwood PROJECT No. 4011.67.912</u></b> Installation of 8-Inch UV sectional patches</p>	<p>Sully-Miller Contracting Co. 135 S. State College Blvd, Ste 400 Brea, CA 92821 Jessie Flores (513) 984-2222</p>	<p>\$ 48,550.00</p>	<p><u>Start</u> 4/1/19 <u>Completion</u> 4/30/19</p>
<p><b><u>Caltrans #07-4W3004 - 91 Freeway to 110 Freeway</u></b> Clean &amp; CCTV 85 LF of 18" &amp; 30" storm drain. Rehabilitate with CIPP lining systems, install 85LF &amp; Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 315,580.00</p>	<p><u>Start</u> 1/28/2019 <u>Completion</u> (R) 10/30/2019</p>
<p><b><u>RFQ - Point Repair by CIPP Sectional and Top Hat</u></b> Clean &amp; CCTV, installation of CIPP Sectionals and UV Top Hats at various location, Post Video.</p>	<p>San Diego County Gen. Services 5500 Overland Ave, Suite 315 San Diego, CA Wasim Hanna (858) 694-2723</p>	<p>\$ 25,678.00</p>	<p><u>Start</u> 3/15/2019 <u>Completion</u> 5/18/2019</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>AC Water &amp; Sewer Group 1026</u></b>          Post CCTV inspection of 2,569LF of sanitary sewer at various locations.</p>	<p>PK Mechanical Systems, Inc.          21335 Bundy Canyon Road          Wildomar, CA 92595          David Spindler (951) 245-5537</p>	<p style="text-align: center;">\$ 8,675.85</p>	<p style="text-align: center;"><u>Start</u> 1/25/2019 <u>Completion</u> (R) 5/22/2019</p>
<p><b><u>Vista V-1 West Vista Sewer Phase 1-L</u></b>          Pre &amp; Post CCTV inspections of 3,954LF of v8", 10" 12" &amp; 15" diameters at various locations.</p>	<p>Orion Construction          2185 La Mirada Drive          Vista, CA 92081          Richard Newall (760) 597-9660</p>	<p style="text-align: center;">\$ 18,385.00</p>	<p style="text-align: center;"><u>Start</u> 5/13/2019 <u>Completion</u> On-Going</p>
<p><b><u>Monrovia Renewal North Section Infrastructure Improvement Project</u></b>          Clean &amp; CCTV 12,066LF of 6" &amp; 8" diameter, CIPP rehabilitate 12,831LF of 6" &amp; 8" sanitary sewer, Install 69 SLC's, and 136 UV sectional patches, bypass pumping and 22,470LF of Post CCTV inspection.</p>	<p>Sully-Miller Contracting Co.          135 S. State College Blvd, Ste 400          Brea, CA 92821          Jessie Flores (513) 984-2222</p>	<p style="text-align: center;">\$ 780,216.50</p>	<p style="text-align: center;"><u>Start</u> 2/4/2019 <u>Completion</u> TBD</p>
<p><b><u>ESR City of Los Angeles - Stone Canyon Road (N. 100 Block)</u></b>          Clean &amp; CCTV, CIPP rehabilitation of 289LF of 10" sanitary sewer, lateral reinstatement and post CCTV.</p>	<p>Spiniello Companies          2650 Pomona Blvd.          Pomona, CA 91768          Eugenio Mateo (562) 458-7757</p>	<p style="text-align: center;">\$ 34,494.31</p>	<p style="text-align: center;"><u>Start</u> 2/1/2019 <u>Completion</u> 3/30/2019</p>
<p><b><u>Sewer &amp; AC Water Group 697A</u></b>          Clean &amp; CCTV 2,200LF of 6" &amp; 8" sanitary sewer, rehabilitate 198LF of 6" &amp; 8" sanitary sewer, SLC's and Post CCTV inspection of 4,089LF of various diameters.</p>	<p>Burtech Pipeline Inc.          102 Second Street          Encinitas CA 92024          Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 40,272.40</p>	<p style="text-align: center;"><u>Start</u> 6/19/2019 <u>Completion</u> 10/16/2019</p>
<p><b><u>Pasadena Storm Drain Repair</u></b>          Clean &amp; CCTV 586LF various diameter storm drain, rehabilitate by CIPP 466LF of 12" &amp; 18" storm drain, post CCTV inspection of 386LF of various diameter storm drain.</p>	<p>GRFCO, Inc.          P O Box 1747          Brea, CA 92822          Jim Jackson (800) 375-7272</p>	<p style="text-align: center;">\$ 37,312.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b><u>Hallmark Sewer Rehabilitation</u></b>          Clean &amp; CCTV, Bypass Pumping, 4,222LF 6" &amp; 8" CIPP rehabilitation at various locations, lateral reinstatement and Post Video CCTV.</p>	<p>Eddie Axner Construction, Inc          5249A Old Oregon Trail          Redding, CA 96002          Trevor Olds (530) 710-3533</p>	<p style="text-align: center;">\$ 240,178.00</p>	<p style="text-align: center;"><u>Start</u> 4/29/2019 <u>Completion</u> (R) 9/13/2019</p>
<p><b><u>Chino ITB - Sewer Re-Lining Project</u></b>          Clean &amp; CCTV 13,452LF of 8" &amp; 10" sanitary sewer, rehabilitate by CIPP 13,452LF of 8" &amp; 10" sanitary sewer, traffic control, bypassing, lateral reinstatement and post CCTV inspection.</p>	<p>City of Chino          PO Box 667          Chino, CA 91708          Austin Postvoit (909) 334-3250</p>	<p style="text-align: center;">\$ 567,655.00</p>	<p style="text-align: center;"><u>Start</u> 9/11/2019 <u>Completion</u> 2/10/2020</p>







## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Oceanside Point Repair Program</u></b> Pre &amp; Post CCTV video inspection of 1,359LF of 6", 8" &amp; 10" sanitary sewer repairs.</p>	<p>Charles King Company 2841 Gardena Ave. Signal Hill, CA 90755 Debi Hawkins (562) 426-2974</p>	<p>\$ 4,756.50</p>	<p><u>Start</u> 3/4/2019 <u>Completion</u> 5/18/2019</p>
<p><b><u>Cal-Trans 07A4593, 3-Year System Inspection and Repair</u></b> Clean &amp; CCTV approx. 20,000LF of various diameter storm drain in LA and Ventura counties, approx. 6,500LF of CIPP rehabilitation of various diameters over a 3 year on call project.</p>	<p>Dreambuilder Const. Corp. 1324 E Lawson Ln Placentia Ca 92870 Alex Singh (714) 646-3697</p>	<p>\$ 2,634,600.00</p>	<p><u>Start</u> 3/12/2019 <u>Completion</u> On-Going</p>
<p><b><u>RFP Warner Ranch Siphon 1B</u></b> Clean &amp; CCTV, CIPP rehabilitate 24-Inch storm drain siphon.</p>	<p>Vista Irrigation District 1391 Engineer Street, Vista, CA 92081 Mark Saltz (760) 597-3112</p>	<p>\$ 71,535.00</p>	<p><u>Start</u> 9/30/2019 <u>Completion</u> 10/2/2019</p>
<p><b><u>Sewer Group 786</u></b> Clean &amp; CCTV and lateral launch inspections of various diameter sanitary sewers.</p>	<p>Ortiz Corporation 2000 Mc Kinley Avenue National City, CA 91950 Jose Ortiz (619) 434-7925</p>	<p>\$ 5,000.00</p>	<p><u>Start</u> 4/4/2019 <u>Completion</u> TBD</p>
<p><b><u>University 21-inch Repair</u></b> Installation of 380LF x 21" SPR sanitary sewer rehabilitation.</p>	<p>AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848</p>	<p>\$ 48,250.00</p>	<p><u>Start</u> 4/22/2019 <u>Completion</u> (R) 7/1/2019</p>
<p><b><u>Lemon Grove FY2017-18 Sewer Capital Improvement Project</u></b> Clean &amp; CCTV, 1,300LF x 8" CIPP rehabilitation, lateral reinstatement, bypass pumping and post video inspection.</p>	<p>Charles King Company 2841 Gardena Ave. Signal Hill, CA 90755 Debi Hawkins (562) 426-2974</p>	<p>\$ 66,800.00</p>	<p><u>Start</u> 4/18/2019 <u>Completion</u> 8/9/2019</p>
<p><b><u>Fullerton - Miscellaneous Storm Drain Improvements</u></b> Clean &amp; CCTV, 426LF of various diameter CIPP storm drain rehabilitation, traffic control, grouting repairs and post video inspection.</p>	<p>City of Fullerton 303 West Commonwealth Ave Fullerton, CA 92832 (714) 738-6886</p>	<p>\$ 164,360.00</p>	<p><u>Start</u> 7/15/2019 <u>Completion</u> (R) 11/4/2019</p>
<p><b><u>El Centro Emergency Sewer Repairs at Villa Ave</u></b> Clean &amp; CCTV, 380LF x 27" CIPP rehabilitation, infiltration grouting, bypass operations, traffic control and post video inspection.</p>	<p>City of El Centro 1275 W. Main Street El Centro, CA 92243 Javier Luna, P.E. (760) 337-5182</p>	<p>\$ 260,225.00</p>	<p><u>Start</u> 6/5/2019 <u>Completion</u> 12/4/2019</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>LACDPW Culvert Repair and Lining Project, Phase 1</u></b> Clean &amp; CCTV, 1,029LF x various diameter storm drain CIPP rehabilitation , traffic control and post CCTV inspection.</p>	<p>Los Angeles County Public Works 900 South Fremont Street Alhambra, CA 91803 Joel Zaragoza (626) 458-4951</p>	<p>\$ 248,358.00</p>	<p><u>Start</u> 12/9/2019 <u>Completion</u> 2/26/2020</p>
<p><b><u>Buena Park 24-Inch CMP Repair</u></b> Clean &amp; CCTV, 100LF x 24” CIPP storm drain rehabilitation, traffic control and post CCTV inspection.</p>	<p>City of Buena Park 6955 Aragon Circle Buena Park, Ca 90622 Frank Moore (714) 562-3708</p>	<p>\$ 44,050.00</p>	<p><u>Start</u> 10/21/2019 <u>Completion</u> 10/25/2019</p>
<p><b><u>City of LA - Albion Riverside Park Project - W.O.# EW40060F</u></b> Clean &amp; CCTV, 380LF x 10” CIPP rehabilitation, clean and video, lateral reinstatement, post video</p>	<p>Sully-Miller Contracting Co. 135 S. State College Blvd, Ste 400 Brea, CA 92821 Mauricio Arreola (714) 449-2277</p>	<p>\$ 33,201.00</p>	<p><u>Start</u> 6/7/2019 <u>Completion</u> 6/7/2019</p>
<p><b><u>Point Loma Storm Drain</u></b> Clean &amp; CCTV, 64LF x 24” CIPP storm drain rehabilitation and post video</p>	<p>AMA Diversified Constr. Group. 1305 Simpson Way, Suite L Escondido, CA 92029 Dillon Vissering (760) 444-1010</p>	<p>\$ 35,634.00</p>	<p><u>Start</u> 12/1/2019 <u>Completion</u> 12/31/2019</p>
<p><b><u>Countywide Sewer Improvements FY 2018-19</u></b> Clean &amp; CCTV, installation of 4,954LF, 8” &amp; 16” CIPP liner at various location, Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p>\$ 291,352.00</p>	<p><u>Start</u> 10/17/2019 <u>Completion</u> 12/10/2019</p>
<p><b><u>City of LA - ESR Keswick Str. W.O. # SWC05476</u></b> Clean &amp; CCTV, 400LF x 8” CIPP rehabilitation, clean and video, lateral reinstatement, post video</p>	<p>Miramontes Const. Co, Inc. P.O. Box 219 Rialto, CA 92377 Yvette Morales (909) 787-3012</p>	<p>\$ 42,200.00</p>	<p><u>Start</u> 12/13/2019 <u>Completion</u> 12/13/2019</p>
<p><b><u>JOC - P17N006 - CMP Storm Drain Lining Right of Way Pipeline North</u></b> Clean &amp; CCTV, CIPP Lining of 977 LF of 21”, 24” &amp; 30” storm drain and Traffic Control at various locations.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 122,566.50</p>	<p><u>Start</u> 12/2/2019 <u>Completion</u> 12/6/2019</p>
<p><b><u>JOC - Task P18N003 Accelerated TS Referral Group</u></b> Clean &amp; CCTV, CIPP Lining of 3,003 LF of 10”, 12”, 21” &amp; 30” sanitary sewer, and Traffic Control at various locations.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 534,933.28</p>	<p><u>Start</u> 11/21/2019 <u>Completion</u> 12/18/2019</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>CIP 19-100 CIPP Lining of Sanitary Sewer System</u></b> Clean &amp; CCTV CIPP lining of 3,193 LF of 8", 10" &amp; 12" sanitary sewer with CIPP lining system, top hats and post video work.</p>	<p>City of Laguna Beach 505 Forest Avenue Laguna Beach, CA 92651 Hannah Johnson (949) 464-6615</p>	<p style="text-align: center;">\$ 208,073.00</p>	<p style="text-align: center;"><u>Start</u> 11/12/2019 <u>Completion</u> 12/3/2019</p>
<p><b><u>Sewer Line By CIPP - Loma Linda</u></b> Clean &amp; CCTV, CIPP Lining of 300LF of 8" sanitary sewer at various locations.</p>	<p>City of Loma Linda 25541 Barton Road Loma Linda, CA Jeff Peterson (909) 799-4400</p>	<p style="text-align: center;">\$ 28,700.00</p>	<p style="text-align: center;"><u>Start</u> 11/25/2019 <u>Completion</u> 11/25/2019</p>
<p><b><u>OVSD Sewer Rehabilitation Project</u></b> Clean &amp; CCTV, traffic control, CIPP Lining of 14,425LF of 8" and 10" sanitary sewer at various locations.</p>	<p>Ojai Valley Sanitary District 1072 Tico Road Ojai, CA 93023 Jon Turner (805) 658-6800</p>	<p style="text-align: center;">\$ 425,000.00</p>	<p style="text-align: center;"><u>Start</u> 11/6/2018 <u>Completion</u> 1/3/2019</p>
<p><b><u>JOC - Sewer Rehab Phase AW-1</u></b> Clean &amp; CCTV 39,321 LF of 8" sanitary Sewer. Rehabilitate with CIPP &amp; SPR lining systems &amp; Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 886,688.55</p>	<p style="text-align: center;"><u>Start</u> 10/4/2019 <u>Completion</u> On-Going</p>
<p><b><u>Sewer and AC Water Group 807</u></b> Clean &amp; CCTV (POST) 11,088LF, CIPP Lining of 863LF of 8" sanitary sewer at various locations and top hats.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 90,193.00</p>	<p style="text-align: center;"><u>Start</u> 12/11/2019 <u>Completion</u> 12/17/2019</p>
<p><b><u>Sewer Pipe Lining - Rainbow-Fallbrook</u></b> Clean &amp; CCTV, CIPP Lining of 1,054LF of 6" &amp; 8" sanitary sewer at various locations.</p>	<p>Rainbow Municipal Water District 3707 Old Highway 395 Fallbrook, CA 92028 Ryan Stockton (760) 728-1178</p>	<p style="text-align: center;">\$ 69,000.00</p>	<p style="text-align: center;"><u>Start</u> 10/1/2019 <u>Completion</u> 10/31/2019</p>
<p><b><u>Caltrans – 07-313704 Glendale Freeway</u></b> Clean &amp; CCTV 320 LF of 18" storm drain. Rehabilitate with CIPP lining system and Post Video.</p>	<p>Highland Construction, Inc 133 N Pixley Street Orange, CA 92868 Erin Richardson (714) 538-5156</p>	<p style="text-align: center;">\$ 85,000.00</p>	<p style="text-align: center;"><u>Start</u> 1/13/2020 <u>Completion</u> 1/25/2020</p>
<p><b><u>City of LA - ESR Canyon View Drive -SWC05478</u></b> Clean &amp; CCTV, 315LF x 8" CIPP rehabilitation, lateral reinstatement, post video</p>	<p>Mike Bubalo Construction 5102 Gayhurst Ave, Baldwin Park, CA 91706 Brad Sorem (562) 818-4035</p>	<p style="text-align: center;">\$ 32,247.50</p>	<p style="text-align: center;"><u>Start</u> 1/28/2020 <u>Completion</u> 1/28/2020</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>City of LA - ESR Parthenia Street - SWC05582</u></b> Clean &amp; CCTV, 382LF x 8" CIPP rehabilitation, lateral reinstatement, post video.</p>	<p>Mike Bubalo Construction 5102 Gayhurst Ave, Baldwin Park, CA 91706 Brad Sorem (562) 818-4035</p>	<p style="text-align: center;">\$ 29,830.00</p>	<p style="text-align: center;"><u>Start</u> 1/28/2020 <u>Completion</u> 1/29/2020</p>
<p><b><u>Hermosa Beach-Sewer Impr. Ph 2 CIP 17-416</u></b> Clean &amp; CCTV, 6,400LF x 8" &amp; 10" CIPP rehabilitation, Lateral reinstatements, rootball removal, traffic Control, top hats and post CCTV.</p>	<p>MNR Construction, Inc 1880 Wright Ave , La Verne, CA 91750 Scott Barnett (626) 383-1019</p>	<p style="text-align: center;">\$ 305,695.00</p>	<p style="text-align: center;"><u>Start</u> 1/21/2020 <u>Completion</u> 3/27/2020</p>
<p><b><u>Paseo De Valencia - 12 -Inch Vertical Drop Repair</u></b> 30LF x 12" CIPP vent line repair.</p>	<p>T.E. Roberts Inc 306 W Katella Ave, Orange, CA 92867 Justin Roberts (714) 559-2291</p>	<p style="text-align: center;">\$ 9,500.00</p>	<p style="text-align: center;"><u>Start</u> 1/31/2020 <u>Completion</u> 1/31/2020</p>
<p><b><u>RFP - Storm Drain Culvert Rehabilitation Point Loma</u></b> 272LF x 15" &amp; 24" CIPP storm drain rehabilitation. Clean &amp; CCTV and post CCTV inspection.</p>	<p>California Constructors 7062 Convoy Court , San Diego, CA 92111 Tony Gutierrez (858) 775-9920</p>	<p style="text-align: center;">\$ 97,086.00</p>	<p style="text-align: center;"><u>Start</u> 1/6/2020 <u>Completion</u> 2/5/2020</p>
<p><b><u>Sewer Rehabilitation N Fresno and E Shields</u></b> Clean &amp; CCTV, CIPP Lining of 2,659 LF of 12" and 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188</p>	<p style="text-align: center;">\$ 240,624.00</p>	<p style="text-align: center;"><u>Start</u> 2/20/2020 <u>Completion</u> 3/6/2020</p>
<p><b><u>Sewer Improvements in the Vicinity of N First Street and E Dakota Avenue</u></b> Clean &amp; CCTV, CIPP Lining of 5,711LF of 6", 8" and 12-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188</p>	<p style="text-align: center;">\$ 230,648.00</p>	<p style="text-align: center;"><u>Start</u> 12/20/2019 <u>Completion</u> 3/27/2020</p>
<p><b><u>AC Water &amp; Sewer Group 1020</u></b> Final Post CCTV, 303LF 8-Inch Cured In Place lining.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 20,787.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b><u>AC Water &amp; Sewer Group 1026</u></b> Final Post CCTV, 303LF 8-Inch Cured In Place lining.</p>	<p>PK Mechanical Systems, Inc. 21335 Bundy Canyon Road Wildomar, CA 92595 David Spindler (951) 245-5537</p>	<p style="text-align: center;">\$ 84,968.00</p>	<p style="text-align: center;"><u>Start</u> 3-30-2020 <u>Completion</u> TBD</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>AC Water &amp; Sewer Group 1027</u></b> Final Post CCTV, 188LF 8-Inch Cured In Place lining.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 3,243.00</p>	<p style="text-align: center;"><u>Start</u> 11-1-2019 <u>Completion</u> 11-1-2019</p>
<p><b><u>AC Water &amp; Sewer Group 1042</u></b> Final Post CCTV, 1,274LF post CCTV inspection.</p>	<p>S.C. Valley Engineering, Inc 656 Front St, El Cajon, CA 92020 Scott Miller (619) 444-2326</p>	<p style="text-align: center;">\$ 3,822.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b><u>Buena Park 2019-2020 Sewer Main Rehabilitation</u></b> Clean &amp; CCTV, 7,019LF 8", 10" &amp; 12" sanitary sewer rehabilitation, traffic control, bypassing and post CCTV</p>	<p>City of Buena Park 656 Front St, Buena Park, CA 92020 Teddy Luong (714) 562-3670</p>	<p style="text-align: center;">\$ 349,570.00</p>	<p style="text-align: center;"><u>Start</u> 4-20-2020 <u>Completion</u> <u>9-5-2020</u></p>
<p><b><u>Caltrans – 07-313404 Monterey Park 710 Freeway</u></b> Clean &amp; CCTV 2,246LF of 18", 24" &amp; 36" storm drain Rehabilitation with CIPP lining system and Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p style="text-align: center;">\$ 400,331.11</p>	<p style="text-align: center;"><u>Start</u> 2-3-2020 <u>Completion</u> 4-29-2020</p>
<p><b><u>Caltrans – 08-1C9304 Big Pines Creek Lake Arrowhead</u></b> Clean &amp; CCTV 560LF of 18", 24" &amp; 36" storm drain Rehabilitation with CIPP, SPR &amp; Alternative pipe lining system and Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p style="text-align: center;">\$ 241,295.00</p>	<p style="text-align: center;"><u>Start</u> 4-13-2020 <u>Completion</u> TBD</p>
<p><b><u>Caltrans – 11-422114 Culvert Repair and Replace Guardrail and Fence</u></b> Clean &amp; CCTV 5,570 LF of 18", 24", 30", 36" &amp; 48" storm drain Rehabilitation with CIPP pipe lining system, preparing culvert structures and Post Video.</p>	<p>Hazard Construction Company 10529 Vine Street Lakeside, CA 92040 Brad Lothers (858) 587-3600</p>	<p style="text-align: center;">\$ 842,260.00</p>	<p style="text-align: center;"><u>Start</u> 5-21-2020 <u>Completion</u> TBD</p>
<p><b><u>North Norwalk Trunk Sewer Rehabilitation</u></b> Clean &amp; CCTV 650LF of 15" sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation and Post Video.</p>	<p>LACSD 1955 Workman Mill Road Whittier, Ca 90601 Jenny Hsu (562) 699-7411</p>	<p style="text-align: center;">\$ 105,770.00</p>	<p style="text-align: center;"><u>Start</u> 3-27-2020 <u>Completion</u> 3-30-2020</p>
<p><b><u>Claremont Trunk Sewer Rehabilitation</u></b> Clean &amp; CCTV 13,198LF of 12" and 15" sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, bypass and Post Video.</p>	<p>LACSD 1955 Workman Mill Road Whittier, Ca 90601 Jenny Hsu (562) 699-7411</p>	<p style="text-align: center;">\$ 1,172,893.00</p>	<p style="text-align: center;"><u>Start</u> 11-20-2019 <u>Completion</u> TBD</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b>Millennium Hawthorne</b> Clean &amp; CCTV 1,070LF of 12" and 15" sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, bypass and Post Video.</p>	<p>Mark Company 2288 North Batavia, Orange, CA 92865 Isaiah Apodaca (714) 685-3462</p>	<p>\$ 110,470.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b>2017-18 Pipeline Rehabilitation and Replacement</b> Clean &amp; CCTV 25,576LF of 6", 8", 10", 14", 15" &amp; 16" Sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, pipe-Bursting, bypass, top hats, lateral lining and Post Video.</p>	<p>Napa Sanitation District 1515 Soscol Ferry Road, Napa, CA 94558 Simon Kobayashi (707) 258-6030</p>	<p>\$ 6,445,000.00</p>	<p><u>Start</u> 1-28-2020 <u>Completion</u> TBD</p>
<p><b>2020 Collection System Rehabilitation Project CIP 19703</b> Clean &amp; CCTV 3,585LF of 8", 12" and 18" sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, bypass and Post Video.</p>	<p>Moulton Niguel Water District 26880 Aliso Viejo Parkway, Aliso Viejo, Ca 92656 Sheldon Yu, PE (949) 831-2500</p>	<p>\$ 325,000.00</p>	<p><u>Start</u> 4-27-2020 <u>Completion</u> 9-5-2020</p>
<p><b>Manhole and Pipe Repair (SPR)</b> Clean &amp; CCTV 350LF of 24-Inch sanitary sewer Rehabilitation with SPR lining system, manhole installation, point repairs, bypass and Post Video.</p>	<p>Orange County Sanitation District 10844 Ellis Avenue, Fountain Valley, CA Brandon Garcia (714) 593-7306AW-1</p>	<p>\$ 350,000.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b>OCSD Boulevard Force Main Replacement</b> Clean &amp; CCTV 280LF of 27" dual sanitary sewer siphons. Rehabilitate with CIPP pipe lining system and Post Video.</p>	<p>Teichert Utilities 3780 Kilroy Airport Way, Suite 700, Long Beach, CA 90806 Fladio Godines (916) 634-3161</p>	<p>\$ 198,160.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><b>Pipeline Rehab Phase AV-1</b> Clean &amp; CCTV 33,313LF of 8" sanitary sewer. Rehabilitate with CIPP &amp; SPR lining systems, reinstate 413 service laterals &amp; Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p>\$ 749,542.50</p>	<p><u>Start</u> 3-2-2020 <u>Completion</u> On-Going</p>
<p><b>Paseo De Valencia</b> Clean &amp; CCTV 12" Vertical Drop. Rehabilitate with CIPP &amp; Post Video.</p>	<p>T.E. Roberts Inc. 306 W Katella Ave, Orange, CA 92867 Justin Roberts (714) 559-2291</p>	<p>\$ 9,500.00</p>	<p><u>Start</u> 2-3-2020 <u>Completion</u> 2-3-2020</p>
<p><b>Carlsbad - Storm Drain System Rehabilitation</b> Clean &amp; CCTV 840 LF of 12" to 42" storm drain. Rehabilitate with CIPP lining systems &amp; Post Video.</p>	<p>City of Carlsbad 1635 Faraday Avenue, Carlsbad, CA 92024 Emily Hasegawa (760) 602-2460</p>	<p>\$ 297,975.00</p>	<p><u>Start</u> 6-29-2020 <u>Completion</u> 1-9-2021</p>





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<b><u>Oceanside Post</u></b> Post CCTV new sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 11,740.00	<u>Start</u> 2-1-2020 <u>Completion</u> 2-29-2020
<b><u>Leucadia Wastewater District – Emergency Repair</u></b> Clean & CCTV, installation of 8” UV Sectional liner & Post Video.	Leucadia Wastewater District 1960 La Costa Avenue, Carlsbad, CA 92024 Marvin Gonzalez (760) 753-0155	\$ 4,425.00	<u>Start</u> 3-11-2020 <u>Completion</u> 3-11-2020
<b><u>Buena Vista Storm Drain</u></b> Post CCTV new storm drain construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 2,705.00	<u>Start</u> 3-31-2020 <u>Completion</u> 3-31-2020
<b><u>W.B. Rte.91 Freeway at Santa Fe/Alameda Off-Ramp</u></b> Post CCTV new storm drain construction.	Peterson – Chase 16351 Construction Circle West Irvine, CA 92606 Jon Vandersloot (949) 677-0295	\$ 5,586.00	<u>Start</u> 4-28-2020 <u>Completion</u> 4-28-2020
<b><u>City of San Diego - Sewer Group 841</u></b> Post CCTV 3,138 LF new sanitary sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 7,845.00	<u>Start</u> 5-5-2020 <u>Completion</u> On-Going
<b><u>City of Downey – Fidler Ave Sewer Rehabilitation</u></b> Clean & CCTV 1,209LF of 8” sanitary sewer. Rehabilitate with CIPP lining systems, reinstate 38 service laterals & Post Video.	City of Downey 11111 Brookshire Avenue PO Box 7018 Downey, CAS 90241 Janet Ortega (562) 658-9565	\$ 115,290.00	<u>Start</u> 6-30-2020 <u>Completion</u> 9-5-2020
<b><u>City of San Diego – AC Water &amp; Sewer Group 1023</u></b> Post CCTV 697LF new sanitary sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 2,788.00	<u>Start</u> 10/1/2020 <u>Completion</u> 10/2/2020
<b><u>City of San Diego – Sewer &amp; AC Water Group 765</u></b> Pre & Post CCTV of 5,383LF new sanitary sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 20,186.25	<u>Start</u> TBD <u>Completion</u> TBD





## Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><b><u>Parkway Dr &amp; Alvarado Road Trunk Sewer</u></b>          Clean &amp; CCTV, 4,901 LF 8", 10", 12", 15" &amp; 30" sanitary sewer rehabilitation, traffic control, Top Hats, bypassing and post CCTV</p>	<p>SC Valley Engineering, Inc.          656 Front St,          El Cajon, CA          Scott Miller (619) 444-2366</p>	<p style="text-align: center;">\$ 123,006.00</p>	<p style="text-align: center;"><u>Start</u>          10-1-2020  <u>Completion</u>          1-20-2022</p>
<p><b><u>OCS D Boulevard Force Main Replacement</u></b>          Clean &amp; CCTV, 280 LF 27" sanitary sewer siphon rehabilitation and post CCTV</p>	<p>Teichert Utilities          400 Sunrise Ave, Suite 300          Roseville, CA 95661          Le Anne Thibodeaux          (916) 480-5575</p>	<p style="text-align: center;">\$ 198,160.00</p>	<p style="text-align: center;"><u>Start</u>          TBD  <u>Completion</u>          TBD</p>
<p><b><u>Sonoma OBAG 2 - River Road Pavement Rehab</u></b>          Clean &amp; CCTV &amp; SPR rehabilitation of 1,011 LF of 18", 24, &amp; 30" storm drain and post CCTV</p>	<p>Ghilotti Construction          246 Ghilotti Ave          Santa Rosa, Ca 95407          Tony Mencarini          (707) 978-0537</p>	<p style="text-align: center;">\$ 295,710.00</p>	<p style="text-align: center;"><u>Start</u>          8/1/2020  <u>Completion</u>          4/1/2021</p>
<p><b><u>El Monte Valley &amp; Arden Storm Drain</u></b>          Clean &amp; CCTV and rehabilitation of 635 LF of 24" storm drain and post CCTV</p>	<p>City of El Monte          13333 Valley Blvd          El Monte, CA 91731-3293          Yurhi Choi          (626) 580-2058</p>	<p style="text-align: center;">\$ 152,000.00</p>	<p style="text-align: center;"><u>Start</u>          10/1/2020  <u>Completion</u>          5/17/2021</p>







## Nu-Line Technologies, LLC Project References – CIPP/SPR

### Experience by Diameter

Size	2014	2015	2016	2017	2018	2019	2020	2021 WIP	Total
6"	1,668	4,543	8,249	8,654	36,158	42,537	7,600	6,373	<b>115,782</b>
8"	38,410	44,062	133,915	119,261	99,197	151,155	85,734	88,947	<b>760,781</b>
10"	516	773	4,878	1,250	9,294	16,861	3,734	7,706	<b>45,012</b>
12"	0	1,779	2,607	4,389	2,758	6,556	15,006	634	<b>33,729</b>
14"	0	102	448	0	641	221	793	355	<b>2,560</b>
15"	330	1,222	768	3,368	718	6,943	8,203	2,872	<b>24,424</b>
16"	0	285	0	0	0	1,594	0	40	<b>1,919</b>
18"	327	962	938	3,425	3,857	9,123	2,430	2,996	<b>24,058</b>
20"	0	0	0	0	1,720	0	275	0	<b>1,995</b>
21"	0	5,478	309	506	775	3,830	0	0	<b>10,898</b>
24"	95	952	1,141	2,053	4,038	9,436	5,581	4,774	<b>28,070</b>
27"	0	0	0	0	288	380	0	0	<b>688</b>
30"	0	656	779	701	1,003	5,117	1,206	688	<b>10,150</b>
33"	0	144	0	0	44	0	0	389	<b>577</b>
36"	0	40	882	40	1,448	1,364	1,453	289	<b>5,516</b>
39"	0	0	0	190	0	0	0	0	<b>190</b>
42"	0	61	0	180	1,166	332	166	582	<b>2,487</b>
48"	0	0	0	0	574	0	2,130	969	<b>3,673</b>
54"	0	0	0	0	214	0	0	0	<b>214</b>
60"	0	0	542	0	483	0	0	0	<b>1,025</b>
<b>Total</b>	<b>41,346</b>	<b>61,059</b>	<b>155,456</b>	<b>144,017</b>	<b>164,376</b>	<b>255,449</b>	<b>134,311</b>	<b>117,614</b>	<b>1,053,756</b>





## **Martin Carmona**

*Superintendent  
West Coast Region*

### **Professional Experience**

#### **Education**

- B.S. Education – General Matias Ramos College, Zacatecas, Mexico – 1984
- Federal #4 High School, Victoria, Mexico

#### **Training**

- Confined Space Training
- CCTV, Lateral Cutting and Chemical Grouting

With Over twenty years experience in the construction and pipeline rehabilitation industry, Mr. Carmona has progressed from a Technician, Supervisor and Superintendent in the Rib Loc, Cured-In-Place, and Fold & Form pipelining methods. Additionally he has successfully trained all CCTV and Cutter operators for Burtech Pipeline.

#### **Burtech Pipeline Foreman**

Oversee Cutting and CCTV Crew  
Operation and maintenance of Cues equipment  
Development and training of new employees.  
Continuing education and research for development of efficiencies for lateral cutting.  
Investigation, development and training of new technologies.

#### **Repipe-California Lead Superintendent**

Oversee all CCTV, Cutting and Lateral Grouting crews  
Operation and maintenance of Cues equipment  
Development and training of new employees.  
Continuing education and research for development of efficiencies for lateral cutting.  
Investigation, development and training of new technologies.  
Developer of the Lateral Measurement Device.  
Management of projects and employees.

#### **Preussag Pipe Rehabilitation, Inc. CCTV, Cutting and Pipe Installation Superintendent**

Operation and maintenance of Cues equipment.  
Coordination of the Training for new technicians.  
Research and development for efficiency of lateral cutting.  
Developer of the Lateral Measurement Device.  
Management of projects and employees.

#### **Preussag Pipe Rehabilitation Inc. Cutter Supervisor**

Training and supervision of all PPR Cutters.  
Communication with Cues for necessary equipment modification.  
Modification of cutting and camera equipment to improve efficiency,  
Coordination of daily construction activities with PPR superintendents.  
Operation of CCTV and Cutting equipment.  
Oversaw PPR field crews.  
Communication with owner field representatives and inspectors.  
Management of PPR field activities, project schedules and crew production.  
Identification of project change conditions.  
Management of project labor costs.  
Maintenance of Site Safety Programs.  
Training of PPR cutters and laborers.  
Assistance in planning and project set-up.

Management and maintenance of PPR CCTV/Cutter trucks and equipment.

**CAT Contracting**

**CCCTV, Cured-in-place Forman**

Performed operation of RST Equipment.

Operation and maintenance of Cues Kangaroo, Beaver Robotics.

Cured-In-Place Pipe Foreman.

Boiler Operator.

**Insituform Technologies,**

**CCTV Cutting and Training Supervisors**

Coordination of the training of new cutting technicians.

Scheduling of technicians to meet production demands.

Coordination with Superintendents' daily activities.

**Insituform Southwest**

**Operation of RST CCTV Equipment**

Operation maintenance and repair of technical underground and Beaver

Robotic lateral reinstatement equipment.

CCTV Crew Leader.

Cured-In-Place Crew Forman, Fold and Form Pipe Installer.

**Insituform Technologies**

**CCTV Technician**

Operation of underground surveyor's equipment.

Maintenance of cameras and transporters.

Installation of Cured-In-Place pipe liner.



## Education

- Serrano High School – Phelan, CA

## Training

- Confined Space training Boom certification
- Forklift certification
- CPR training
- Alcohol and Drug training.

## Joe Zilius

Foreman

## Professional Experience

Mr. Zilius has over fifteen years' experience in the construction, trenchless technology and pipeline rehabilitation industry with a Career progression from a Laborer to Foreman. His expertise is with both CIPP and Spiral Wound Lining systems in sewer/storm drain lining include extensive knowledge in sewer bypass operations.

### Nu-Line Technologies Foreman

- Responsible for management of crews for the installation of both CIPP and RibLoc Pipe Rehabilitation Systems
- Provides technical and project approach guidance to Nu-Line Technologies field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assist GM and Estimator with Project Estimates for bids
- Analyze and solve all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develop and implement sewer bypass systems. Identifies, initiates and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

### Arizona Pipeline Laborer

- Responsible for management of crews for the installation of dig and replace pipeline systems.
- Oversee daily bypass and traffic control (set-up, operation, and tear-down)
- Provides field technical support, problem solving and troubleshooting.



## **Fernando Uribe**

*Foreman*

*West Coast Region*

### **Professional Experience**

#### **Education**

- Covina High School

#### **Training**

- Confined Space Training
- CCTV, Lateral Cutting and Chemical Grouting

With Over ten years' experience in the construction and pipeline rehabilitation industry, Mr. Uribe has progressed from a Technician, Supervisor and Superintendent in the Rib Loc, Cured-In-Place, and Fold & Form pipelining methods. Additionally he has successfully trained CCTV and Cutter operators for NuLine Technologies, LLC.

#### **Burtech Pipeline Cutter/CCTV Operator**

Oversee Cutting and CCTV Crew  
Operation and maintenance of Cues equipment  
Development and training of new employees.  
Continuing education and research for development of efficiencies for lateral cutting.  
Investigation, development and training of new technologies.

#### **Repipe-California Cutter/CCTV Operator**

CCTV, Cutting and Lateral Grouting  
Operation and maintenance of Cues equipment  
Development and training of new employees.  
Continuing education and research for development of efficiencies for lateral cutting.  
Investigation, development and training of new technologies.

#### **Preussag Pipe Rehabilitation, Inc. Cutter/CCTV Operator**

Operation and maintenance of Cues equipment.  
Coordination of the Training for new technicians.  
Research and development for efficiency of lateral cutting.



### Education

- Rio Hondo Community College
- Arroyo High School, El Monte, CA

### Training

- Small Crane Truck Certificate
- Commercial Class A Drivers License,
- Forklift certification.

### Certifications

- 1995 Employee of the Year –Insituform Southwest.

## Frank Durazo

*Operations Manager  
West Coast Region*

### Professional Experience

Mr. Durazo has over twenty years' experience in the trenchless technology industry with experience in Cured-In-Place and Rib Loc pipelining processes including CIPP Wetout. Using his expertise he has progressed from a supervisor to Warehouse Foreman and was promoted to the position of Project Manager.

#### **Nu-Line Technologies Operations Manager**

- Leads scheduling, managing and organization of Burtech Pipeline field activities.
- Provides technical and project approach guidance to Nu-Line Technologies field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assist GM and Estimator with Project Estimates for bids
- Analyze and solve all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develop and implement sewer bypass systems. Train field employees with proper use.
- Identifies, initiates and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

#### **Repipe-California, Inc., Ontario, CA Operations Manager**

- Leads scheduling, managing and organization of Repipe-CA field activities.
- Provides technical and project approach guidance to Repipe-CA field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assist GM and Estimator with Project Estimates for bids
- Analyze and solve all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develop and implement sewer bypass systems. Train field employees with proper use.
- Identifies, initiates and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

#### **Repipe-California, Inc. Ontario, CA Project Manager/Project Scheduler**

- Responsible for scheduling and ordering of all lining materials, wet-out and delivery.
- Manage multiple CIPP and Rib Loc projects simultaneously from \$100k to \$2.5M.
- Review of job costs to ensure profitable projects.
- Prepare submittals, schedules, cost estimates, and interact with clients and contractors
- Assist GM and Estimator with Project Estimates for bids

**Repipe-California, Inc, Santa Ana, CA  
Warehouse Foreman/Project Scheduler**

- Responsible for scheduling and ordering of all lining materials, wet-out and delivery.
- Maintain and repair of all Repipe-CA construction equipment and vehicles, management of all inventory and job-related materials, ordering of equipment materials and supplies, assistance to field as required on-site with Rib Loc, or CIPP installations, and establishment and maintenance of warehouse operations.
- Identify and negotiate with new suppliers
- Performs as the acting Safety Director and assures that OSHA safety compliance is adhered to in the field, corporate office and within the warehouse environment.

**Preussag Pipe Rehabilitation  
Warehouse Foreman**

- Responsible for the maintenance and repair of all PPR construction equipment and vehicles, management of all inventory and job-related materials, ordering of equipment materials and supplies, assistance to field as required on-site with RibLoc, or CIPP installations, and establishment and maintenance of warehouse operations.
- Responsible for resourcing equipment and material vendors.
- Mechanical assistance to jobsite and field personnel.
- Oversee Driver Vehicle Inspection Reports and Driver Daily Logs for DOT Bit Inspections and coordinates quarterly maintenance for corporate fleet in preparation of DOT bit inspections.
- Performs as the acting Safety Director and assures that OSHA safety compliance is adhered to in the field, corporate office and within the warehouse environment.

**National Liner-West, Gardena, CA  
Installation Supervisor**

- Supervision of the impregnation and installation for Cured-In-Place trenchless lining system for the Western Region of the United States.
- Installation Supervisor for 10 crewmembers for the U-Liner Fold and Form Lining System.
- Additional responsibilities included daily reporting to inspectors from various cities and counties, purchasing and ordering of equipment and materials and scheduling of equipment and personnel for projects.

**Cooke Pipeline Rehabilitation  
Installation Supervisor**

- Supervision for the impregnation and installation procedures for Cured-In-Place trenchless pipeliners and the Ultra-Liner Fold and Form System pipelining system.
- Acted as Purchasing Agent for equipment and materials for the jobsites and was responsible for bypass planning and traffic control setup.

**Insituform, Southwest  
Installation Supervisor**

- Responsible for the impregnation procedure for the trenchless Cured-In-Place Lining System.
- Responsible for job scheduling; personnel and equipment, purchasing and ordering of materials and field sample testing and reporting.

**Senior Welder**

- Responsible for welding and fabrication of equipment for the snack food industry.
- Additional responsibilities included blueprint design, research and development for prototypes.





20520 Unico Road  
McKenney, VA 23872  
804.451.3667

January 15, 2015

To Whom it may concern:

Hector Mora is certified and approved by Ferratex Inc. as a boiler technician. He has vast experience in the installation and curing of Ferratex products.

Sincerely,

Gerhardt Rodenberger



October 29, 2017

To Whom It May Concern:

This letter is to certify that the following licensee of Sekisui SPR Americas LLC has been trained and certified to install SPR-EX spiral wound liners.

Nuline Technologies – Effective date – November 2015

With the license, the customer has purchased equipment as well as completed a training course on the proper installation method of SPR-EX spiral wound rehabilitation process.

Kind Regards,

Joseph P. Dominguez  
Sr. Technical Services Engineer,  
Sekisui SPR Americas LLC



August 14, 2015

Nu-Line Technologies, LLC  
102 Second Street  
Encinitas, CA 92024

## CERTIFICATE OF INSTALLER

To Whom It May Concern:

This certificate verifies that **Nu-Line Technologies, LLC** has received all necessary Training for the preparation and installation procedures for the **Cosmic "TOPHAT" Lateral connection & Short liner spot repair sealing systems.** Nu-Line Technologies, LLC has been certified since January 2015.

If there are any questions, please contact Chris Scarratt at information listed below.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Scarratt".

Chris Scarratt  
Cosmic Engineering GmbH

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Jorge Beltran  
(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

TRAINING WAS COMPLETED ON

September 14, 2018  
(DATE)

TRAINING WAS CONDUCTED BY

Sharr Martin  
(NAME OF INSTRUCTOR)

**NATIONAL**  
**safety**  
COMPLIANCE  
[www.osha-safety-training.net](http://www.osha-safety-training.net)

CERTIFIED BY  
  
(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Hector Mora

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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CERTIFIED BY

*Sharr Martin*

(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Mike A. Covarrubias  
(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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[www.osha-safety-training.net](http://www.osha-safety-training.net)

CERTIFIED BY

  
(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Jose D. Correa

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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**NATIONAL**  
**safety**

**COMPLIANCE**  
www.osha-safety-training.net

CERTIFIED BY

*Sharr Martin*

(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Jonathan L. Moss

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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CERTIFIED BY

*Sharr Martin*

(SIGNATURE OF INSTRUCTOR)



# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Njabulo Mbelu  
(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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CERTIFIED BY

  
(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Juan J. Exiga

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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(DATE)

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(NAME OF INSTRUCTOR)

**NATIONAL**  
**safety**

**COMPLIANCE**  
www.osha-safety-training.net

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Juan M. Contreras

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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September 14, 2018

(DATE)

TRAINING WAS CONDUCTED BY

Sharr Martin

(NAME OF INSTRUCTOR)

**NATIONAL**  
**safety**  
COMPLIANCE  
[www.osha-safety-training.net](http://www.osha-safety-training.net)

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Scott D. Meyer

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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September 14, 2018

(DATE)

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Sharr Martin

(NAME OF INSTRUCTOR)

**NATIONAL**  
**safety**  
COMPLIANCE  
[www.osha-safety-training.net](http://www.osha-safety-training.net)

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Roberto Caratachea

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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September 14, 2018

(DATE)

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(NAME OF INSTRUCTOR)

**NATIONAL**  
**safety**

**COMPLIANCE**  
www.osha-safety-training.net

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Juan J. Diaz

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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**safety**

**COMPLIANCE**  
www.osha-safety-training.net

CERTIFIED BY

Sharr Martin

(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Fernando Uribe

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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September 14, 2018

(DATE)

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COMPLIANCE  
[www.osha-safety-training.net](http://www.osha-safety-training.net)

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)

# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Caesar M. Magana

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

TRAINING WAS COMPLETED ON

September 14, 2018

(DATE)

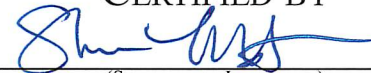
TRAINING WAS CONDUCTED BY

Sharr Martin

(NAME OF INSTRUCTOR)

**NATIONAL**  
**safety**  
COMPLIANCE  
[www.osha-safety-training.net](http://www.osha-safety-training.net)

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)



# CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Joseph Zilius

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

## Confined Spaces

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(NAME OF INSTRUCTOR)

**NATIONAL**  
**safety**

**COMPLIANCE**  
www.osha-safety-training.net

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)



**ENGINEER OF WORK**

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

  
\_\_\_\_\_  
Registered Engineer

12/21/2021  
\_\_\_\_\_  
Date

Seal:



**A. CHANGES TO CONTRACT DOCUMENTS**

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

**B. PLANS**

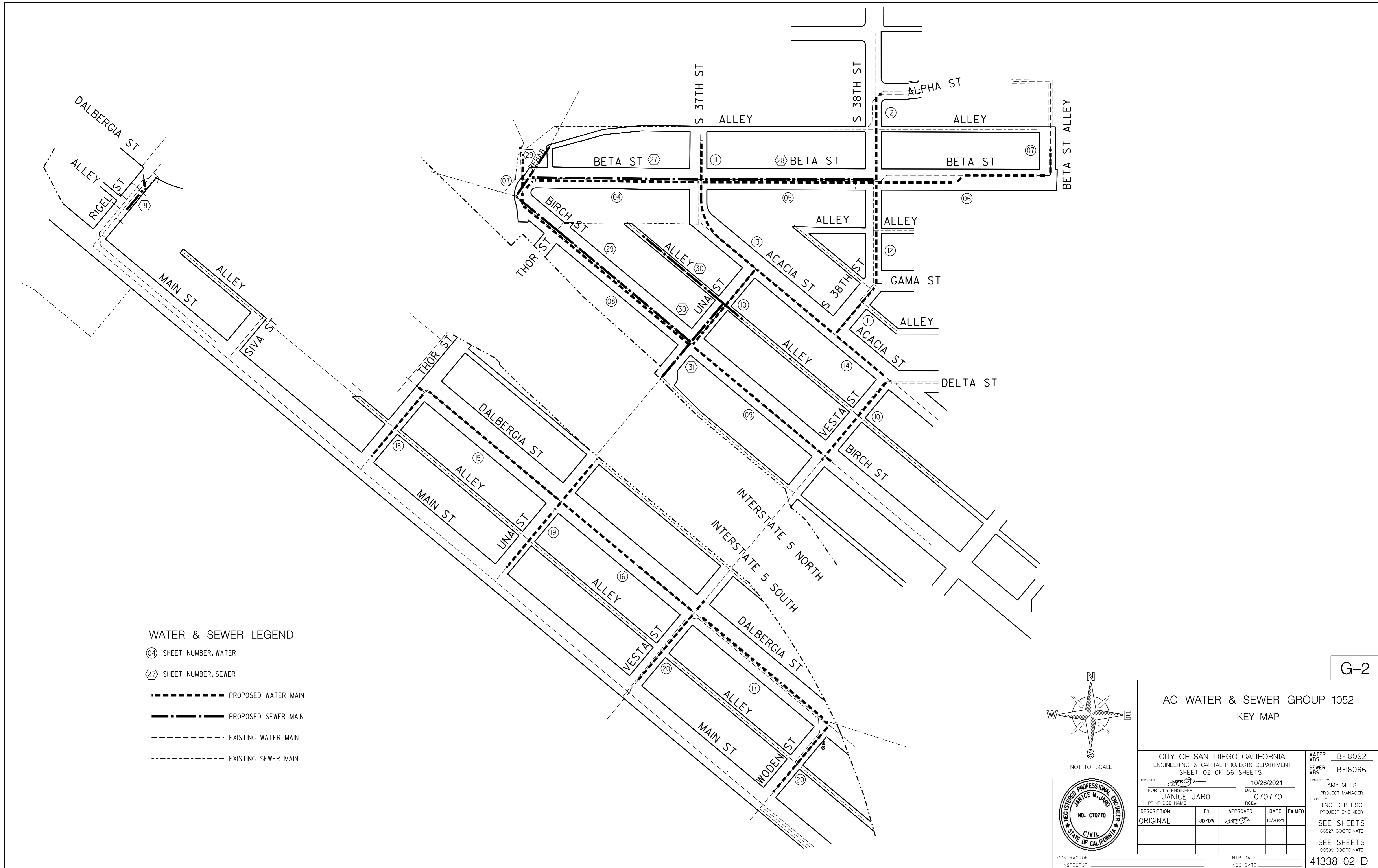
1. To Drawing Numbers **41338-01-D** through **41338-56-D**, **DELETE** in their entirety and **SUBSTITUTE** with Drawing Numbers **41338-01-D** through **41338-56-D**, issued Dec. 21, 2021, pages 4 through 59 of this Addendum.

James Nagelvoort, Director  
Engineering & Capital Projects Department

Dated: *December 21, 2021*  
San Diego, California

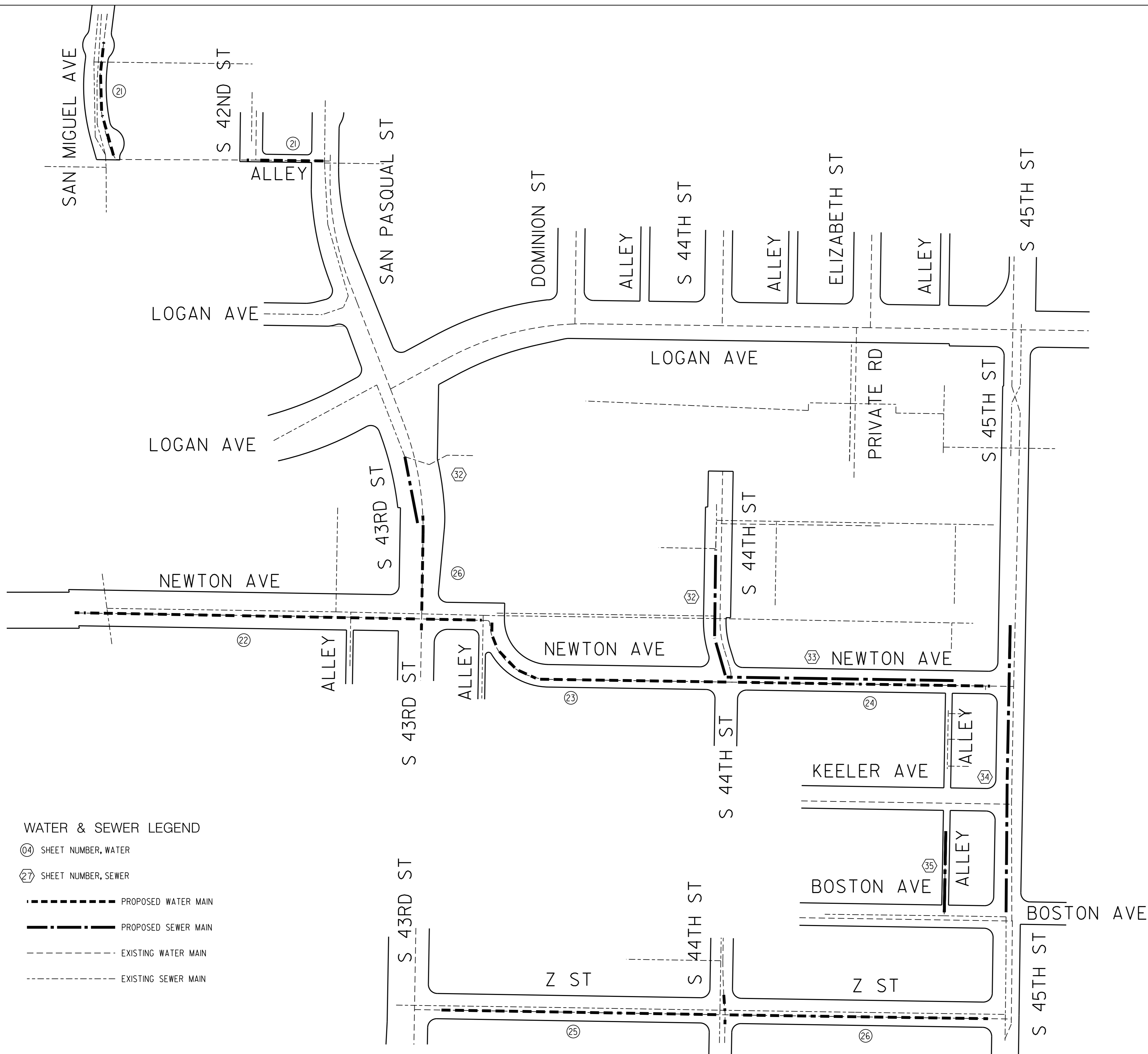
JN/DH/la





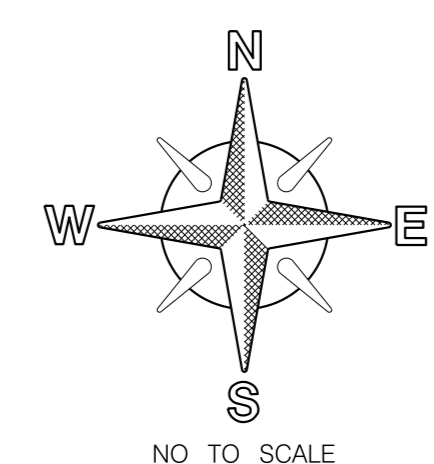
KEY MAP

G-2



**WATER & SEWER LEGEND**

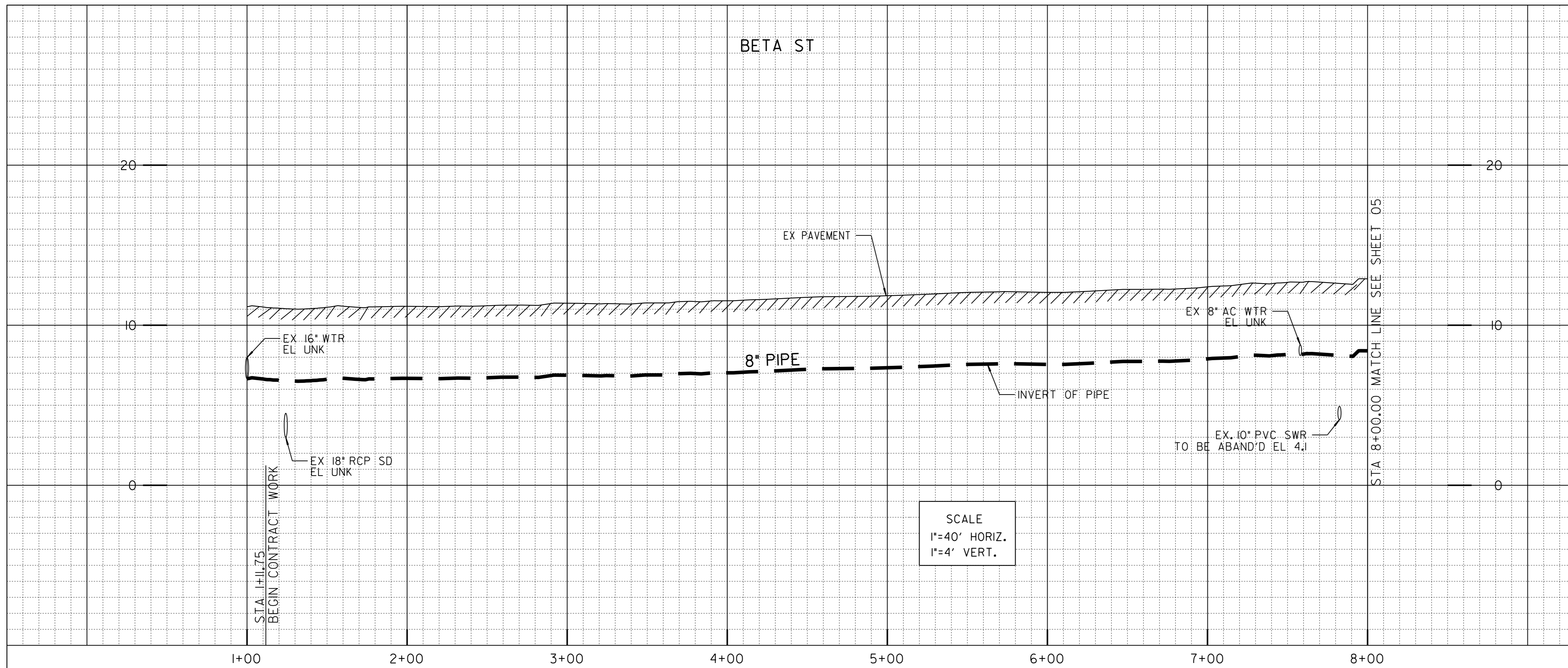
- ②4 SHEET NUMBER, WATER
- ②7 SHEET NUMBER, SEWER
- PROPOSED WATER MAIN
- - - - PROPOSED SEWER MAIN
- EXISTING WATER MAIN
- - - - EXISTING SEWER MAIN



G-3

AC WATER & SEWER GROUP 1052 KEY MAP				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 03 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096		
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT DC&E NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW	<i>[Signature]</i>	10/26/21	
CONTRACTOR		NTP DATE		
INSPECTOR		NOC DATE		
				41338-03-D

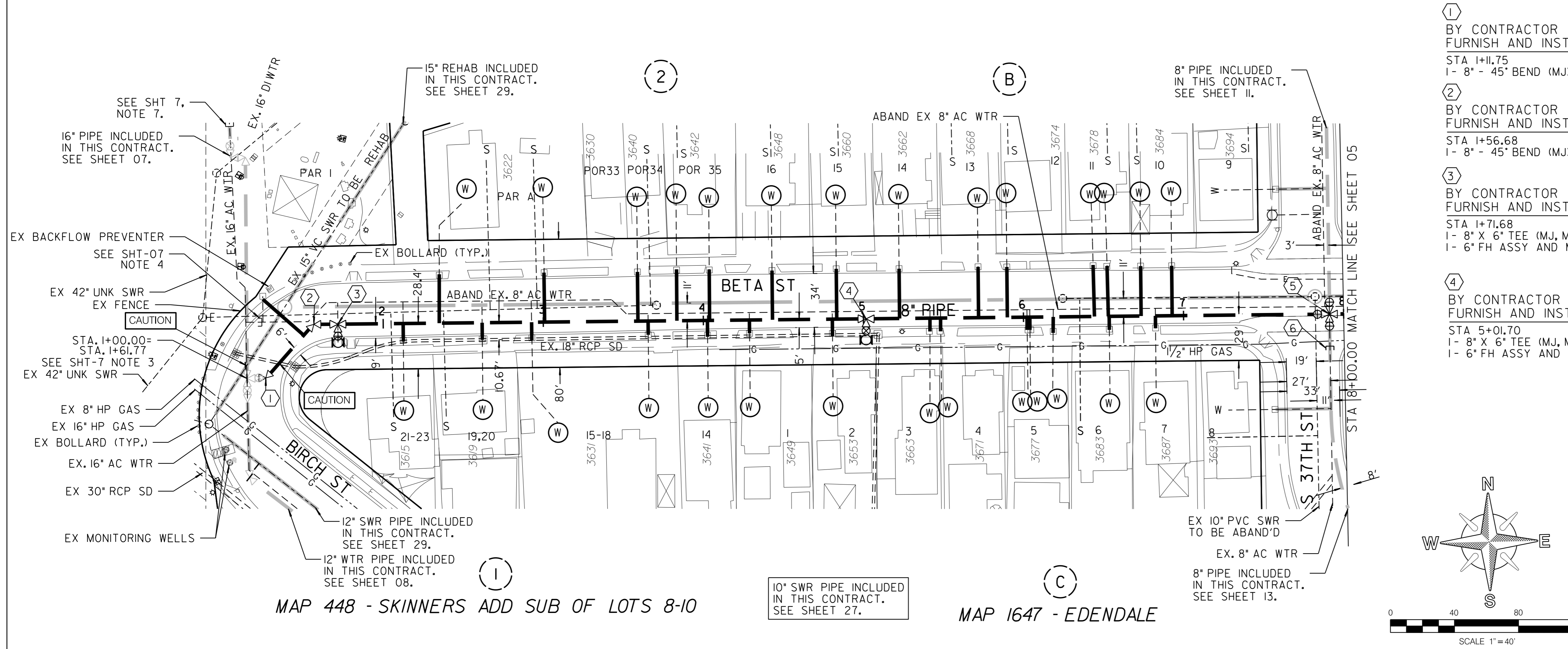
KEY MAP



ALIGNMENT: SHEET 4-6

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/Delta	DIST/LENGTH
POB	1+00.00	1832194.13	6294999.27	STRAIGHT	N 89°23'50" E	D = 11.75
PI	1+11.75	1832194.25	6295011.02	STRAIGHT	N 43°08'14" E	D = 44.93
PI	1+56.68	1832227.04	6295041.74	STRAIGHT	S 89°12'35" E	D = 15.00
PI	1+71.68	1832226.83	6295056.74	STRAIGHT	S 89°20'18" E	D = 330.02
PI	5+01.70	1832223.02	6295386.74	STRAIGHT	S 89°20'18" E	D = 289.43
PI	7+91.13	1832219.67	6295676.15	STRAIGHT	S 89°55'50" E	D = 271.88
PI	10+63.01	1832219.34	6295948.03	STRAIGHT	S 89°56'05" E	D = 323.25
PI	13+86.26	1832218.98	6296271.28	STRAIGHT	S 89°56'09" E	D = 67.50
PI	14+53.76	1832218.90	6296338.78	STRAIGHT	N 89°58'18" E	D = 292.00
PI	17+45.77	1832219.04	6296630.78	STRAIGHT	N 89°58'16" E	D = 11.75
PI	17+57.52	1832219.05	6296642.54	STRAIGHT	N 45°32'49" E	D = 38.56
PI	17+96.08	1832246.05	6296670.06	STRAIGHT	S 89°56'44" E	D = 281.38
PI	20+77.46	1832245.79	6296951.44	STRAIGHT	S 89°56'44" E	D = 46.66
POE	21+24.12	1832245.74	6296998.10			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

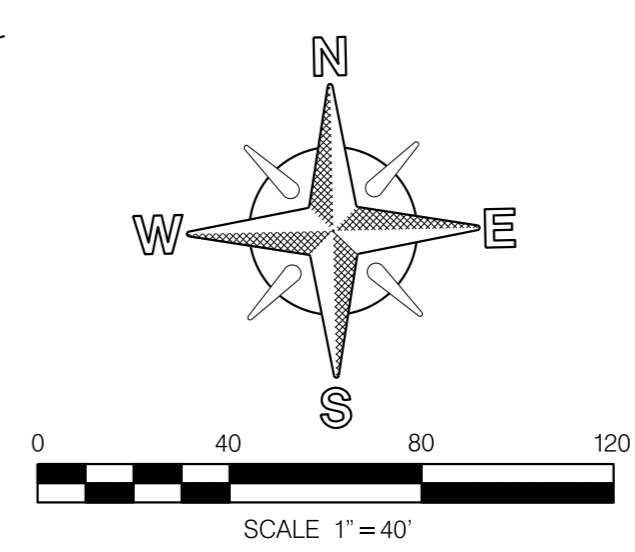


- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 1+11.75  
1- 8" - 45° BEND (MJ) LT
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+56.68  
1- 8" - 45° BEND (MJ) RT
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+71.68  
1- 8" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+01.70  
1- 8" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 7+91.13=  
STA 1+00.00 SEE SHT II  
STA 1+00.00 SEE SHT I3  
1- 8" CROSS (F, MJ, F, F)  
3 - 8" G.V. (F, MJ) BK, LT, RT
- ⑥ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 7+91.08  
CUT & PLUG:  
EX 8" AC WTR, 20' +/- RT  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

REFERENCE:  
WATER: 22703-9-D  
SEWER: 26285-6-D, 37924-2-D  
STORM DRAIN: 17255-09-D, 09867-D, 10019-D  
GAS: I6042-I18665  
ELECTRIC: I6042-I18665  
CABLE TV: COX FACILITY MAP 4  
TELEPHONE: A469\_BMEI992  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: I245  
THOMAS BROS.: I289G6  
HGL: 390

RETIREMENTS:  
8" - AC - 705' - 1986  
FH (2-PORT) - I  
I' SERVICE - 22- COPPER - 1986  
I' SERVICE - 6- COPPER - 1988  
I' SERVICE - I - UNK - NULL



**AC WATER & SEWER GROUP 1052**  
BETA STREET  
BIRCH STREET TO S 37TH STREET

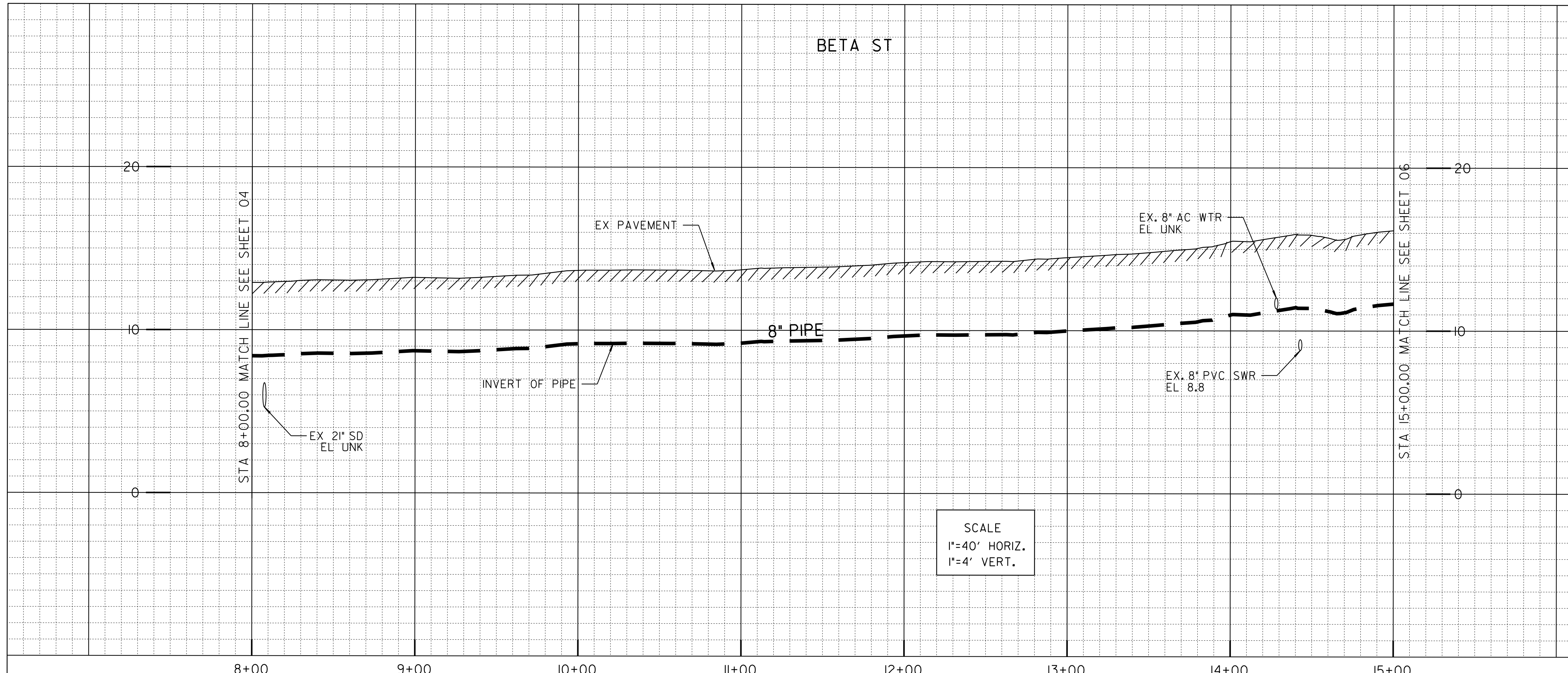
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 04 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINTED NAME	DATE: 10/26/2021 PROJECT NUMBER: C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION: ORIGINAL	BY: <i>[Signature]</i>	APPROVED: <i>[Signature]</i>
DATE: 10/26/21	DATE: 10/26/21	DATE: 10/26/21
1830-6291 CCS83 COORDINATE		41338-04-D

CONTRACTOR: \_\_\_\_\_ NTP DATE: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ NOC DATE: \_\_\_\_\_

BETA STREET



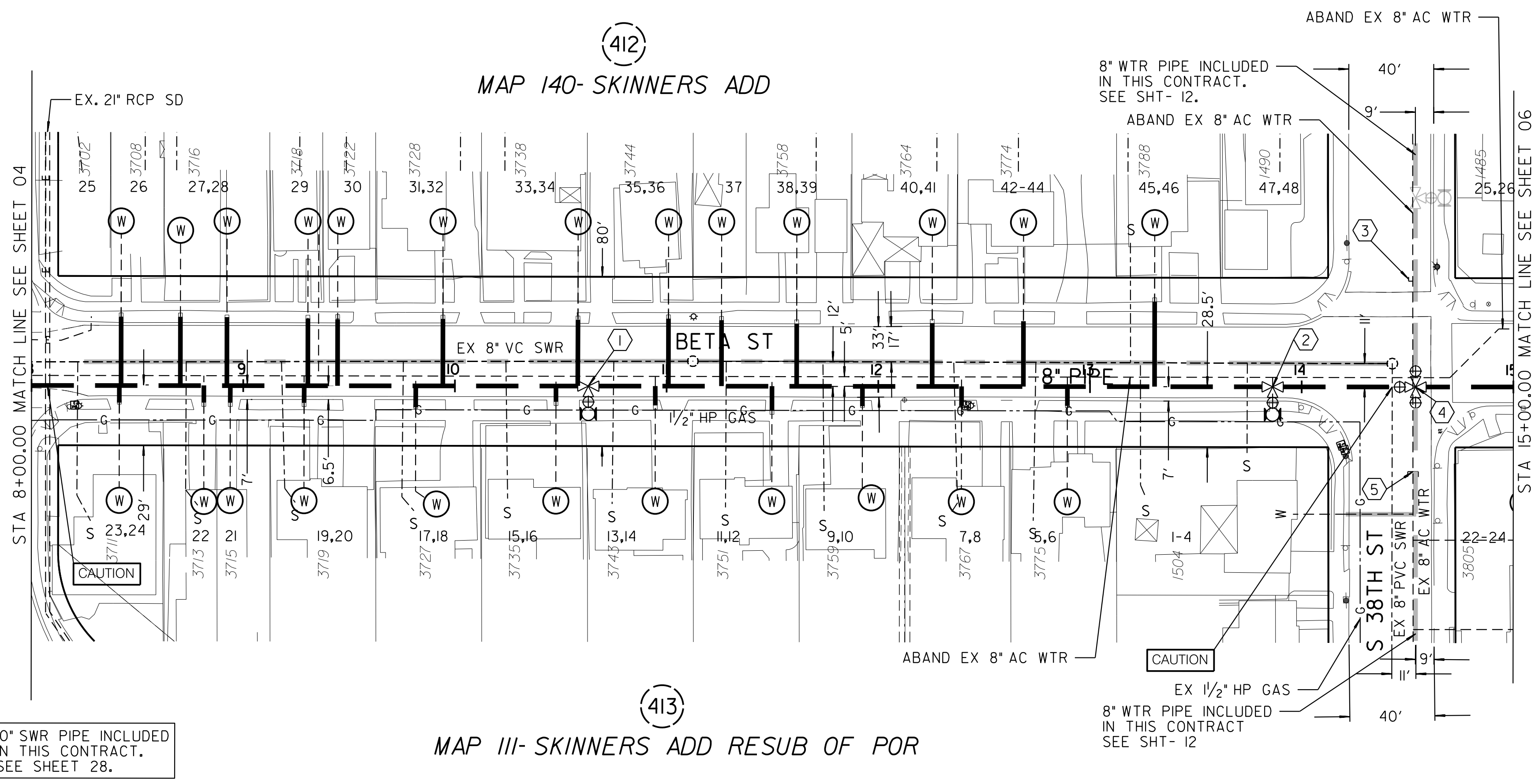
BETA ST



ALIGNMENT: SHEET 4-6

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832194.13	6294999.27	STRAIGHT	N 89°23'50" E	D = 11.75
PI	1+11.75	1832194.25	6295011.02	STRAIGHT	N 43°08'14" E	D = 44.93
PI	1+56.68	1832227.04	6295041.74	STRAIGHT	S 89°12'35" E	D = 15.00
PI	1+71.68	1832226.83	6295056.74	STRAIGHT	S 89°20'18" E	D = 330.02
PI	5+01.70	1832223.02	6295386.74	STRAIGHT	S 89°20'18" E	D = 289.43
PI	7+91.13	1832219.67	6295676.15	STRAIGHT	S 89°55'50" E	D = 271.88
PI	10+63.01	1832219.34	6295948.03	STRAIGHT	S 89°56'05" E	D = 323.25
PI	13+86.26	1832218.98	6296271.28	STRAIGHT	S 89°56'09" E	D = 67.50
PI	14+53.76	1832218.90	6296338.78	STRAIGHT	N 89°58'18" E	D = 292.00
PI	17+45.77	1832219.04	6296630.78	STRAIGHT	N 89°58'16" E	D = 11.75
PI	17+57.52	1832219.05	6296642.54	STRAIGHT	N 45°32'49" E	D = 38.56
PI	17+96.08	1832246.05	6296670.06	STRAIGHT	S 89°56'44" E	D = 281.38
PI	20+77.46	1832245.79	6296951.44	STRAIGHT	S 89°56'44" E	D = 46.66
POE	21+24.12	1832245.74	6296998.10			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

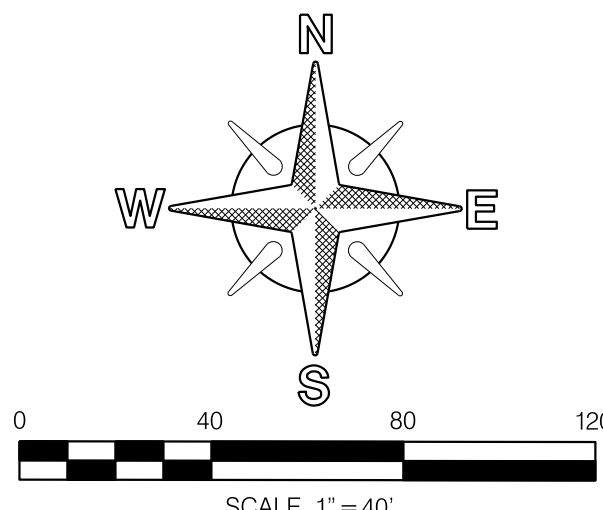


- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 10+63.01  
1- 8" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 13+86.26  
1- 8" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ③ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 14+52.41 +/- 50' LT PHASE I  
CUT & PLUG:  
EX 8" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 14+53.76  
1- 8" CROSS (F, MJ, F, F)  
3 - 8" G.V. (F, MJ) BK, LT, RT
- ⑤ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 14+52.61 +/- 40' RT PHASE I  
CUT & PLUG:  
EX 8" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

REFERENCE:  
WATER: 22703-10-D  
SEWER: 22703-10-D, 27599-16-D  
STORM DRAIN:  
GAS: 16050-118665, 16057-118665  
ELECTRIC: 16050-118665, 16057-118665  
CABLE TV: COX FACILITY MAP 4  
TELEPHONE: A469\_BMEI93  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: I245  
THOMAS BROS.: I289G6  
HGL: 390

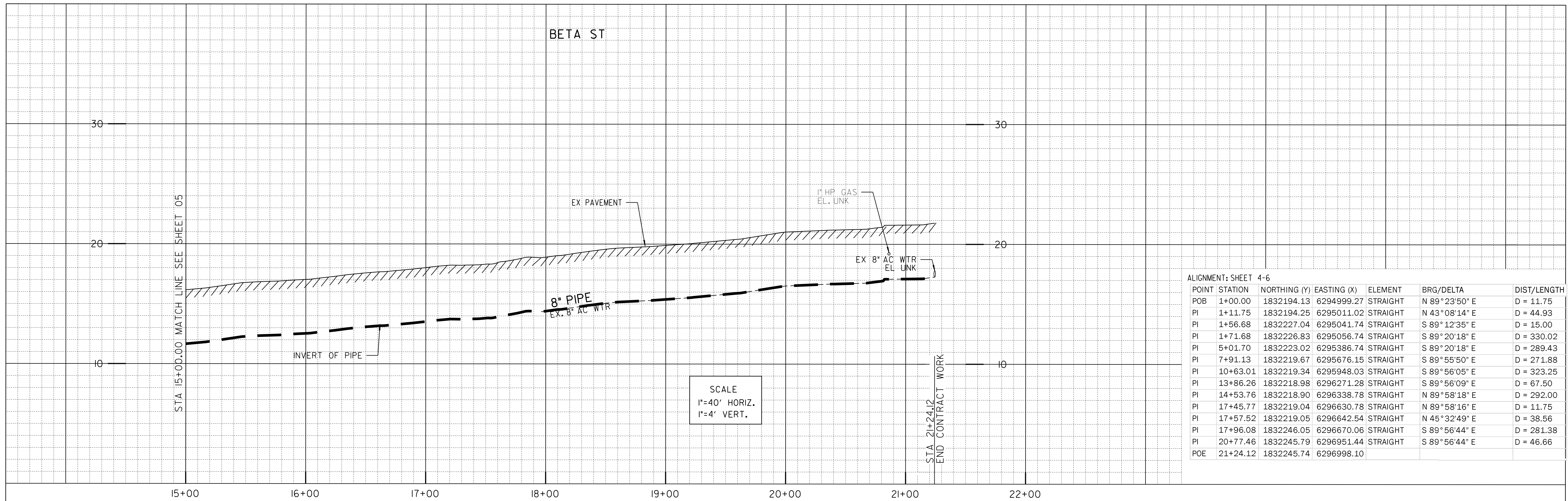
RETIREMENTS:  
8" - AC -710'- 1986  
EX 8" AC WTR  
FH (2-PORT) - 1  
1" SERVICE - 25 - COPPER - 1986

CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



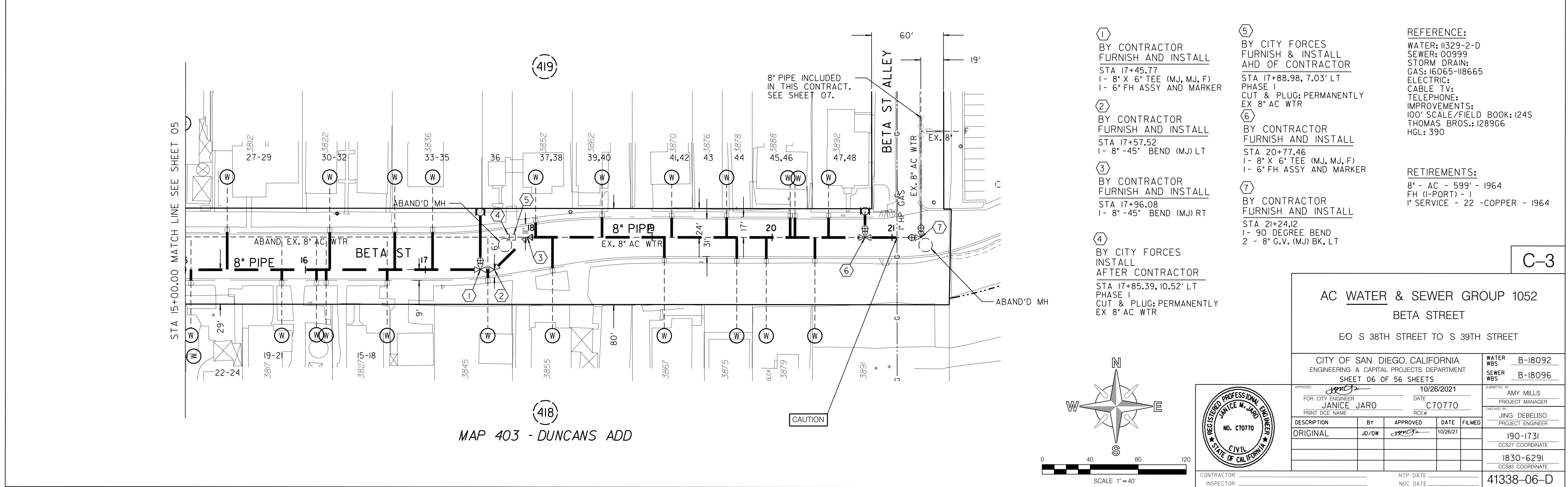
AC WATER & SEWER GROUP 1052  
BETA STREET  
E/O S 37TH STREET TO S 38TH STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 05 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: [Signature] FOR CITY ENGINEER JANICE JARO PRINT DCE NAME	DATE: 10/26/2021 PROJECT NO: C70770 RCE#	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JD/DW	[Signature]
		DATE: 10/26/21
		FILMED
		190-1731
		CCS27 COORDINATE
		1830-6291
		CCS83 COORDINATE
		41338-05-D

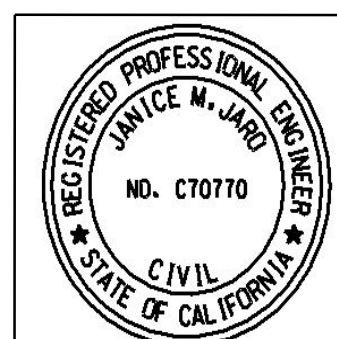
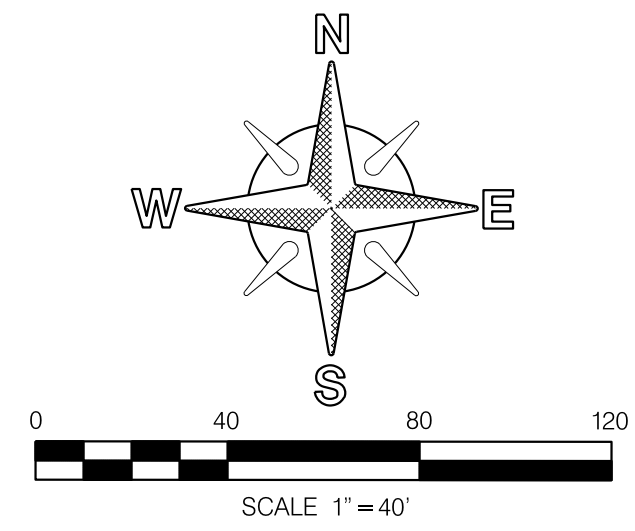


ALIGNMENT: SHEET 4-6

POINT STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/Delta	DIST/LENGTH
POB 1+00.00	1832194.13	6294999.27	STRAIGHT	N 89° 23' 50" E	D = 11.75
PI 1+11.75	1832194.25	6295011.02	STRAIGHT	N 43° 08' 14" E	D = 44.93
PI 1+56.68	1832227.04	6295041.74	STRAIGHT	S 89° 12' 35" E	D = 15.00
PI 1+71.68	1832226.83	6295056.74	STRAIGHT	S 89° 20' 18" E	D = 330.02
PI 5+01.70	1832223.02	6295386.74	STRAIGHT	S 89° 20' 18" E	D = 289.43
PI 7+91.13	1832219.67	6295676.15	STRAIGHT	S 89° 55' 50" E	D = 271.88
PI 10+63.01	1832219.34	6295948.03	STRAIGHT	S 89° 56' 05" E	D = 323.25
PI 13+86.26	1832218.98	6296271.28	STRAIGHT	S 89° 56' 09" E	D = 67.50
PI 14+53.76	1832218.90	6296338.78	STRAIGHT	N 89° 58' 18" E	D = 292.00
PI 17+45.77	1832219.04	6296630.78	STRAIGHT	N 89° 58' 16" E	D = 11.75
PI 17+57.52	1832219.05	6296642.54	STRAIGHT	N 45° 32' 49" E	D = 38.56
PI 17+96.08	1832246.05	6296670.06	STRAIGHT	S 89° 56' 44" E	D = 281.38
PI 20+77.46	1832245.79	6296951.44	STRAIGHT	S 89° 56' 44" E	D = 46.66
POE 21+24.12	1832245.74	6296998.10			



- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 17+45.77  
1- 8" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
  - ② BY CONTRACTOR FURNISH AND INSTALL  
STA 17+57.52  
1- 8" -45° BEND (MJ) LT
  - ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 17+96.08  
1- 8" -45° BEND (MJ) RT
  - ④ BY CITY FORCES INSTALL AFTER CONTRACTOR  
STA 17+85.39, 10.52' LT  
PHASE I  
CUT & PLUG; PERMANENTLY  
EX 8" AC WTR
  - ⑤ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 17+88.98, 7.03' LT  
PHASE I  
CUT & PLUG; PERMANENTLY  
EX 8" AC WTR
  - ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 20+77.46  
1- 8" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
  - ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 21+24.12  
1- 90 DEGREE BEND  
2 - 8" G.V. (MJ) BK, LT
- REFERENCE:  
WATER: I1329-2-D  
SEWER: 00999  
STORM DRAIN:  
GAS: I6065-I18665  
ELECTRIC:  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: I245  
THOMAS BROS.: I289G6  
HGL: 390
- RETIREMENTS:  
8" - AC - 599' - 1964  
FH (I-PORT) - I  
I' SERVICE - 22 - COPPER - 1964



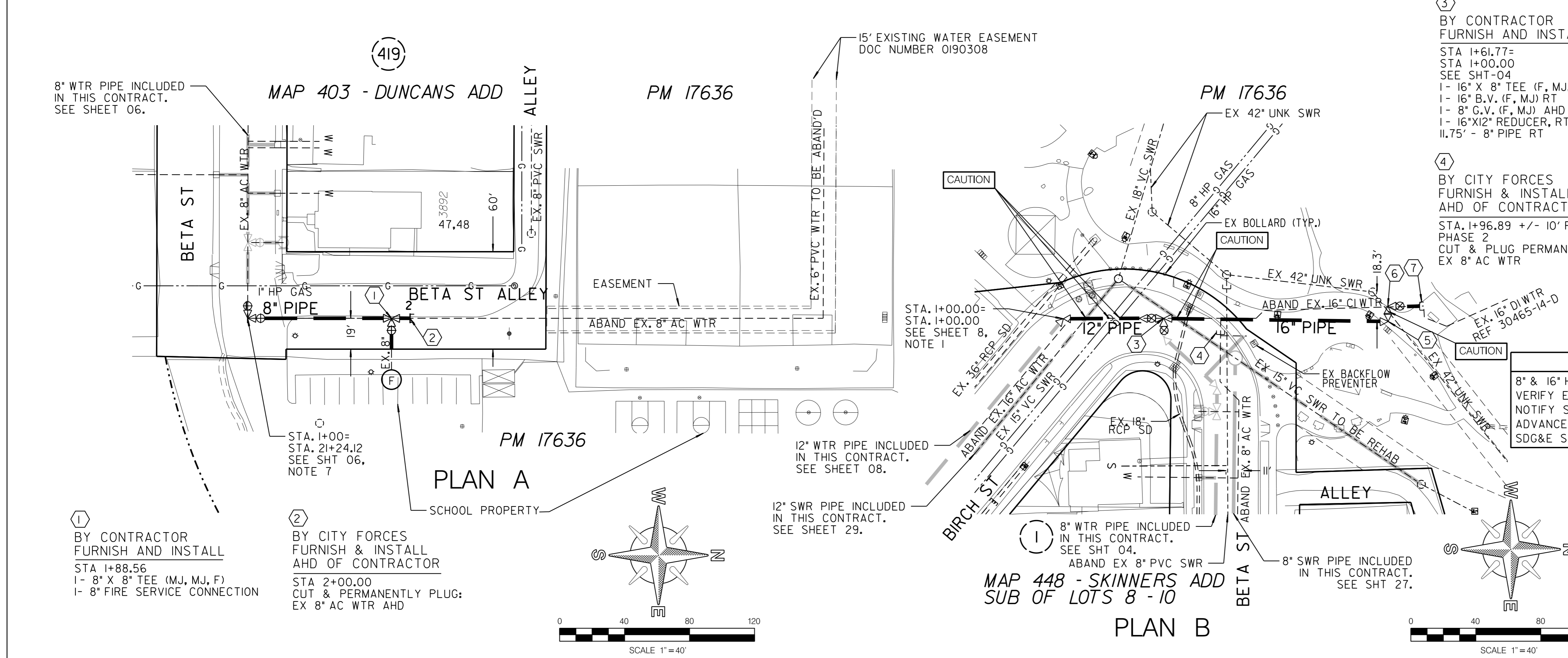
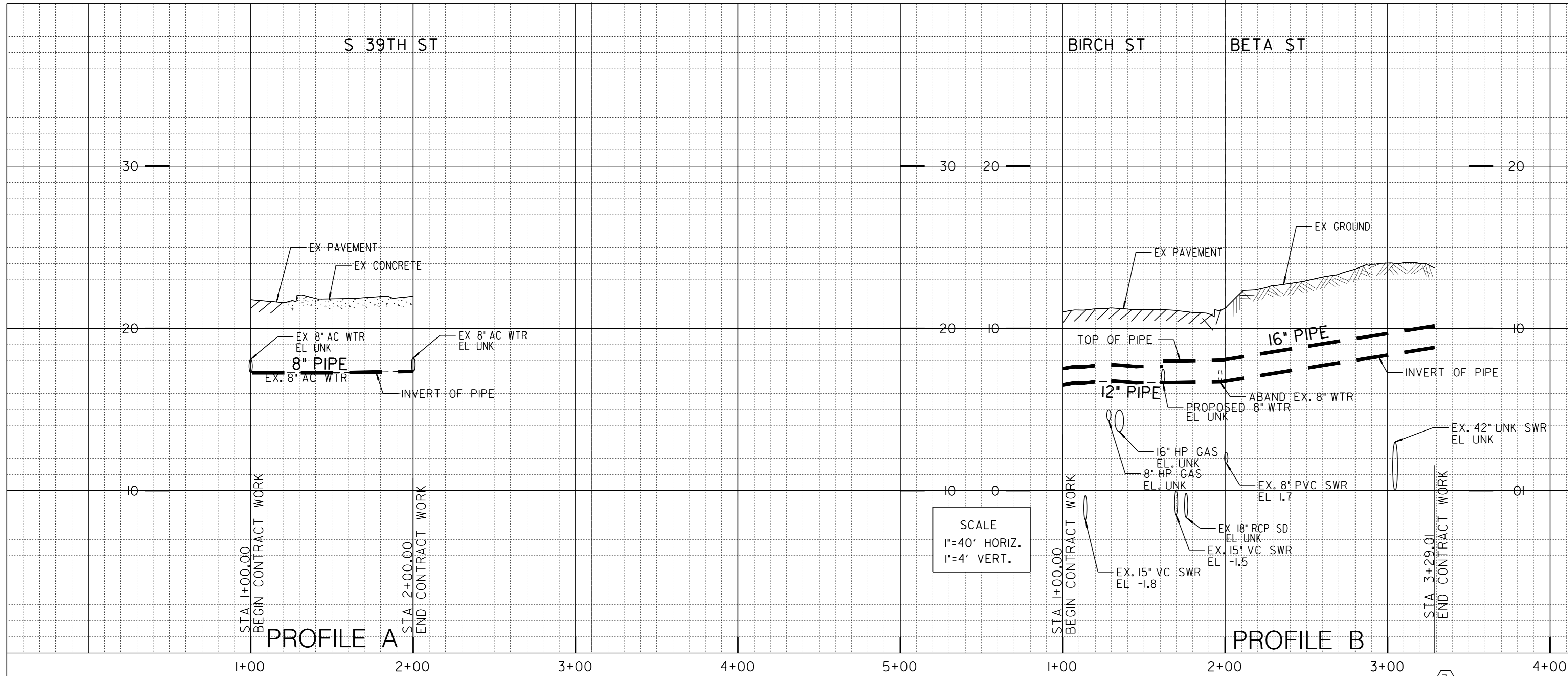
**AC WATER & SEWER GROUP 1052**  
BETA STREET  
EO S 38TH STREET TO S 39TH STREET

C-3

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 06 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT NAME: JANICE JARO	DATE: 10/26/2021 PROJECT NO: C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JD/DW	10/26/21
CONTRACTOR		NTP DATE
INSPECTOR		NOC DATE
		1830-6291 CCS83 COORDINATE
		41338-06-D

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832245.74	6296998.10	STRAIGHT	N 0°04'07" W	D = 88.56
PI	1+88.56	1832334.30	6296997.99	STRAIGHT	N 0°04'07" W	D = 11.44
POE	2+00.00	1832345.74	6296997.98			

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832132.35	6294999.56	STRAIGHT	N 0°16'32" W	D = 61.77
PI	1+61.77	1832194.13	6294999.27	STRAIGHT	N 0°48'32" E	D = 138.22
PI	3+00.00	1832332.34	6295001.22	STRAIGHT	S 88°35'04" W	D = 9.40
PI	3+09.39	1832332.11	6294991.83	STRAIGHT	N 0°09'03" W	D = 19.62
POE	3+29.01	1832351.72	6294991.77			



- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+61.77-1+00.00  
SEE SHT-04  
1- 16" X 8" TEE (F, MJ, F)  
1- 16" B.V. (F, MJ) RT  
1- 8" C.V. (F, MJ) AHD  
1- 16" X 12" REDUCER, RT  
11.75' - 8" PIPE RT
- ④ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA. 1+96.89 +/- 10' RT  
PHASE 2  
CUT & PLUG PERMANENTLY:  
EX 8" AC WTR
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+00.00  
1- 16" - 90° BEND (MJ) LT
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+09.39  
1- 16" - 90° BEND (MJ) RT  
1- 16" B.V. (MJ) AHD
- ⑦ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 3+29.01  
PHASE 2  
CUT & PLUG:  
EX 16" AC WTR AHD  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

REFERENCE:  
WATER: I1329-2-D, I6507-D, 22703-5-D  
SEWER: 26285-6-D  
STORM DRAIN: I7255-09-D  
GAS: I6057-I18665, I6042-I18665  
ELECTRIC: I6042-I18665  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: I245  
THOMAS BROS.: I28966  
HGL: 390

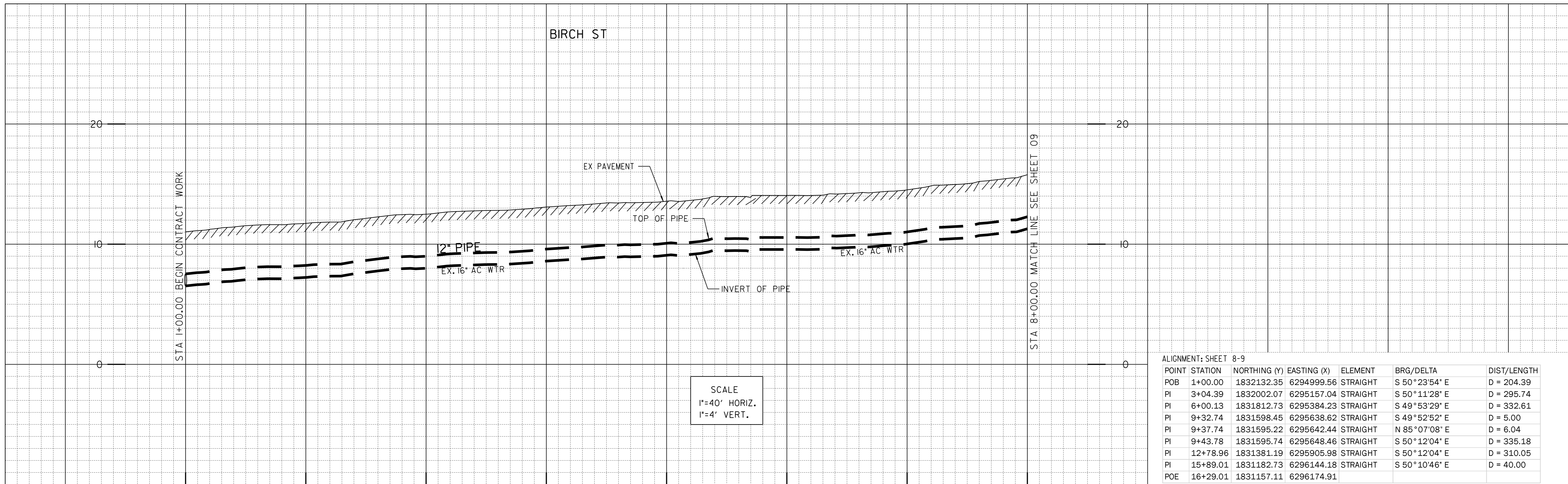
RETIREMENTS:  
8" - AC - 500' - 1964  
16" - AC - 350' - 1975  
8" - FIRE SERVICE - 1' - PVC - 2009

**AC WATER & SEWER GROUP 1052**  
39TH STREET  
BETA STREET TO SO ALPHA STREET  
BIRCH STREET TO SO SOUTHWEST TRAILS PARK

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 07 OF 56 SHEETS		WATER WBS - B-18092 SEWER WBS - B-18096
APPROVED:	DATE: 10/26/2021	FOR CITY ENGINEER: JANICE JARO
PRINT DCE NAME: JANICE	RCE#: C70770	PROJECT MANAGER: AMY MILLS
DESCRIPTION: ORIGINAL	BY:	APPROVED:
	DATE: 10/26/21	DATE FILMED: 10/26/21
		PROJECT ENGINEER: JING DEBELISO
		190-1731
		CCS27 COORDINATE
		1830-6291
		CCS83 COORDINATE
		41338-07-D

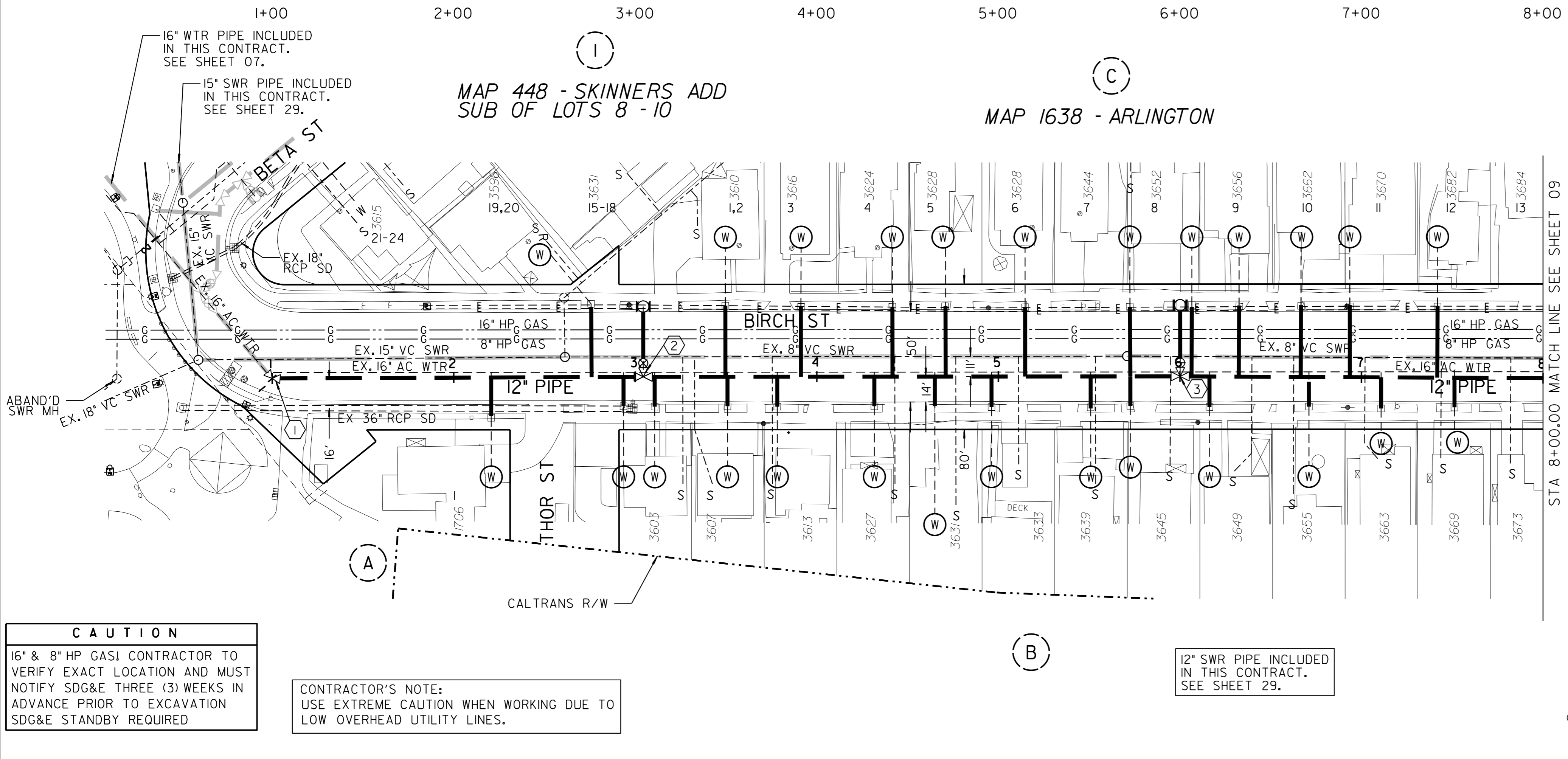
CONTRACTOR: \_\_\_\_\_ NTP DATE: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ NOC DATE: \_\_\_\_\_

39TH STREET



ALIGNMENT: SHEET 8-9

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832132.35	6294999.56	STRAIGHT	S 50°23'54" E	D = 204.39
PI	3+04.39	1832002.07	6295157.04	STRAIGHT	S 50°11'28" E	D = 295.74
PI	6+00.13	1831812.73	6295384.23	STRAIGHT	S 49°53'29" E	D = 332.61
PI	9+32.74	1831598.45	6295638.62	STRAIGHT	S 49°52'52" E	D = 5.00
PI	9+37.74	1831595.22	6295642.44	STRAIGHT	N 85°07'08" E	D = 6.04
PI	9+43.78	1831595.74	6295648.46	STRAIGHT	S 50°12'04" E	D = 335.18
PI	12+78.96	1831381.19	6295905.98	STRAIGHT	S 50°12'04" E	D = 310.05
PI	15+89.01	1831182.73	6296144.18	STRAIGHT	S 50°10'46" E	D = 40.00
POE	16+29.01	1831157.11	6296174.91			



- ① BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+00.00 = STA 1+00.00  
 SEE SHEET 7  
 1- 12" - 45' BEND (F) LT
- ② BY CONTRACTOR FURNISH AND INSTALL  
 STA 3+04.39  
 1- 12" X 6" TEE (M, J, F)  
 1- 6" FH ASSY AND MARKER
- ③ BY CONTRACTOR FURNISH AND INSTALL  
 STA 6+00.13  
 1- 12" X 6" TEE (M, J, F)  
 1- 6" FH ASSY AND MARKER

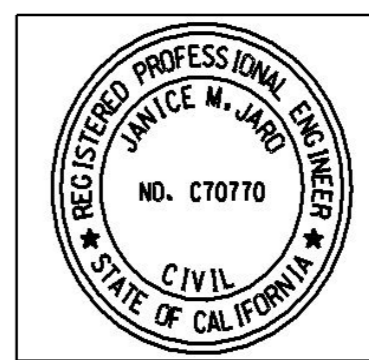
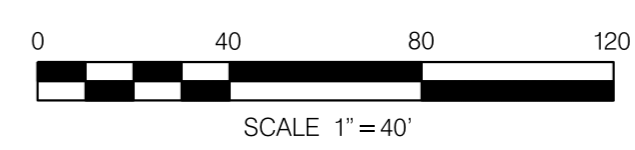
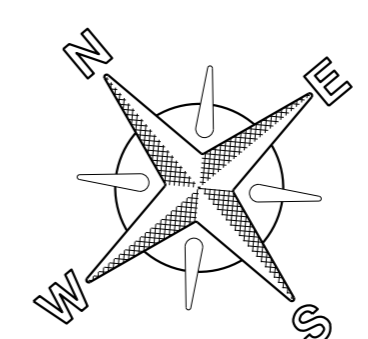
REFERENCE:  
 WATER: 22703-5-D  
 SEWER: 16511-3-D, 16511-4-D  
 STORM DRAIN: 17255-09  
 GAS: 16042-118665  
 ELECTRIC:  
 CABLE TV:  
 TELEPHONE:  
 IMPROVEMENTS:  
 100' SCALE/FIELD BOOK: 1245  
 THOMAS BROS.: 128966  
 HGL: 390

RETIREMENTS:  
 16" - AC - 703' - 1975  
 FH (2-PORT) - 2  
 1" SERVICE - 25 - COPPER - 1975  
 1" SERVICE - 1 - COPPER - 1988

**CAUTION**  
 16" & 8" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

12" SWR PIPE INCLUDED IN THIS CONTRACT. SEE SHEET 29.



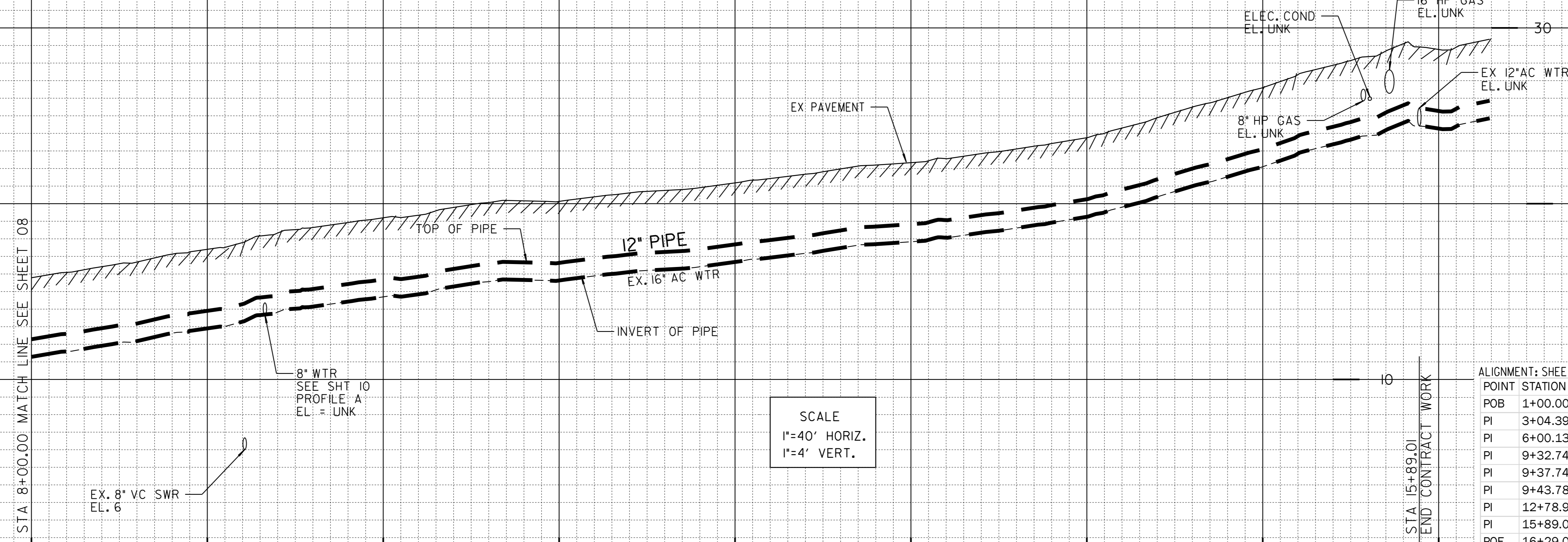
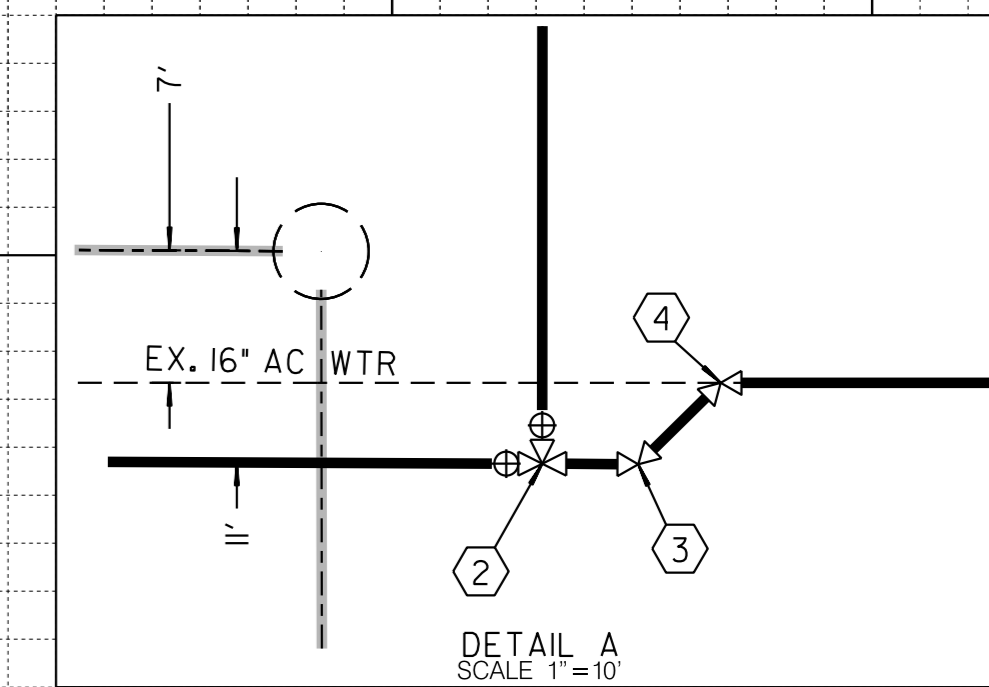
**AC WATER & SEWER GROUP 1052**  
**BIRCH STREET**  
 BETA STREET TO NWO UNA STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 08 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT LAST NAME	DATE 10/26/2021 DATE C70770 RCE#	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
		DATE 10/26/21
		FILED
		190-1730
		CCS27 COORDINATE
		1830-6291
		CCS83 COORDINATE
		41338-08-D

CONTRACTOR INSPECTOR \_\_\_\_\_ NTP DATE \_\_\_\_\_  
 NOC DATE \_\_\_\_\_

BIRCH STREET

BIRCH ST



ALIGNMENT: SHEET 8-9

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/Delta	DIST/LENGTH
POB	1+00.00	1832132.35	6294999.56	STRAIGHT	S 50° 23' 54" E	D = 204.39
PI	3+04.39	1832002.07	6295157.04	STRAIGHT	S 50° 11' 28" E	D = 295.74
PI	6+00.13	1831812.73	6295384.23	STRAIGHT	S 49° 53' 29" E	D = 332.61
PI	9+32.74	1831598.45	6295638.62	STRAIGHT	S 49° 52' 52" E	D = 5.00
PI	9+37.74	1831595.22	6295642.44	STRAIGHT	N 85° 07' 08" E	D = 6.04
PI	9+43.78	1831595.74	6295648.46	STRAIGHT	S 50° 12' 04" E	D = 335.18
PI	12+78.96	1831381.19	6295905.98	STRAIGHT	S 50° 12' 04" E	D = 310.05
PI	15+89.01	1831182.73	6296144.18	STRAIGHT	S 50° 10' 46" E	D = 40.00
POE	16+29.01	1831157.11	6296174.91			

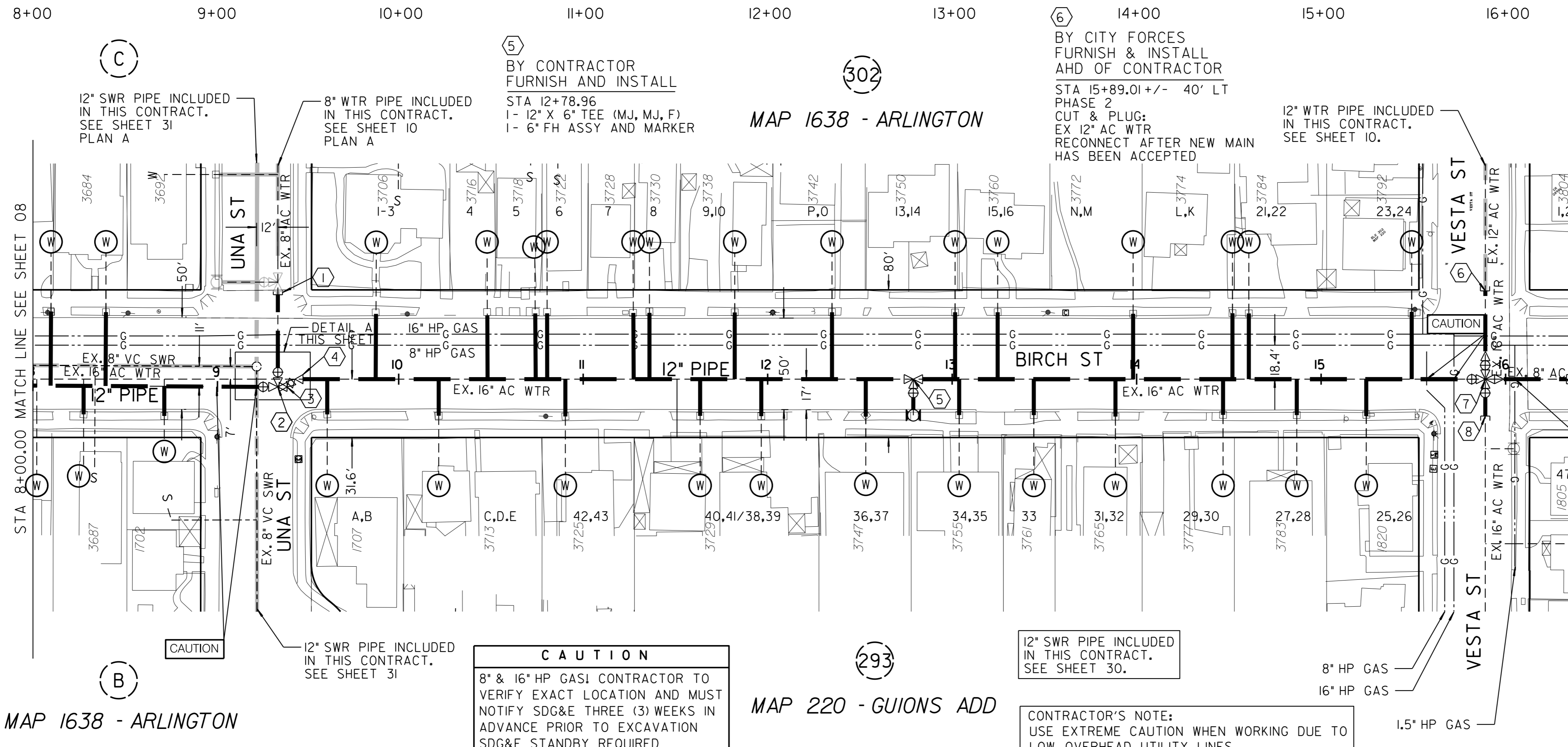
SCALE  
1"=40' HORIZ.  
1"=4' VERT.

① BY CITY FORCES  
FURNISH & INSTALL  
AHD OF CONTRACTOR  
STA 9+32.74  
PHASE 2  
CUT & PLUG:  
EX 8" AC WTR, 50' LT  
RECONNECT AFTER NEW MAIN  
HAS BEEN ACCEPTED

② BY CONTRACTOR  
FURNISH AND INSTALL  
STA 9+32.74=  
STA 1+00.00 SEE SHT 10  
1- 12" X 8" TEE (F)  
1- 12" G.V. (F, MJ) BK  
1- 8" G.V. (F, MJ) LT  
50' - 8" PIPE LT

③ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 9+37.74  
1- 12" - 45° BEND (MJ) LT

④ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 9+43.78  
1- 12" - 45° BEND (MJ) RT



**CAUTION**  
8" & 16" HP GAS! CONTRACTOR TO  
VERIFY EXACT LOCATION AND MUST  
NOTIFY SDG&E THREE (3) WEEKS IN  
ADVANCE PRIOR TO EXCAVATION  
SDG&E STANDBY REQUIRED

12" SWR PIPE INCLUDED  
IN THIS CONTRACT.  
SEE SHEET 30.

CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.

⑦ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 15+89.01=  
STA 1+20.00  
SEE SHT 10, PLAN B  
1- 16" X 12" CROSS (F)  
1- 12" G.V. (F, MJ) BK  
2 - 16" B.V. (F, MJ), LT, RT  
1- 16" X 12" REDUCER, LT  
1- 12" X 8" REDUCER, AHD  
20' - 16" PIPE RT  
40' - 12" PIPE LT

⑧ BY CITY FORCES  
FURNISH & INSTALL  
AHD OF CONTRACTOR  
STA 15+89.01 +/- 20' RT  
PHASE 2  
CUT & PLUG:  
EX 16" AC WTR  
RECONNECT AFTER NEW MAIN  
HAS BEEN ACCEPTED

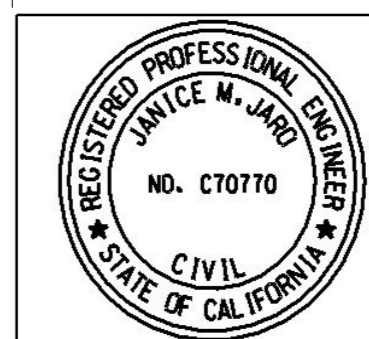
⑨ BY CITY FORCES  
FURNISH & INSTALL  
AHD OF CONTRACTOR  
STA 15+89.01 +/- 40' AHD  
PHASE 2  
CUT & PLUG:  
EX 8" AC WTR  
RECONNECT AFTER NEW MAIN  
HAS BEEN ACCEPTED

REFERENCE:  
WATER: 22703-5-D  
SEWER: 16511-3-D  
STORM DRAIN:  
GAS: 16042-118660  
ELECTRIC: 16042-118660  
CABLE TV: COX FACILITY MAP 4  
TELEPHONE: A469\_BME1993  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: 1245  
THOMAS BROS.: 1289G6  
HGL: 390

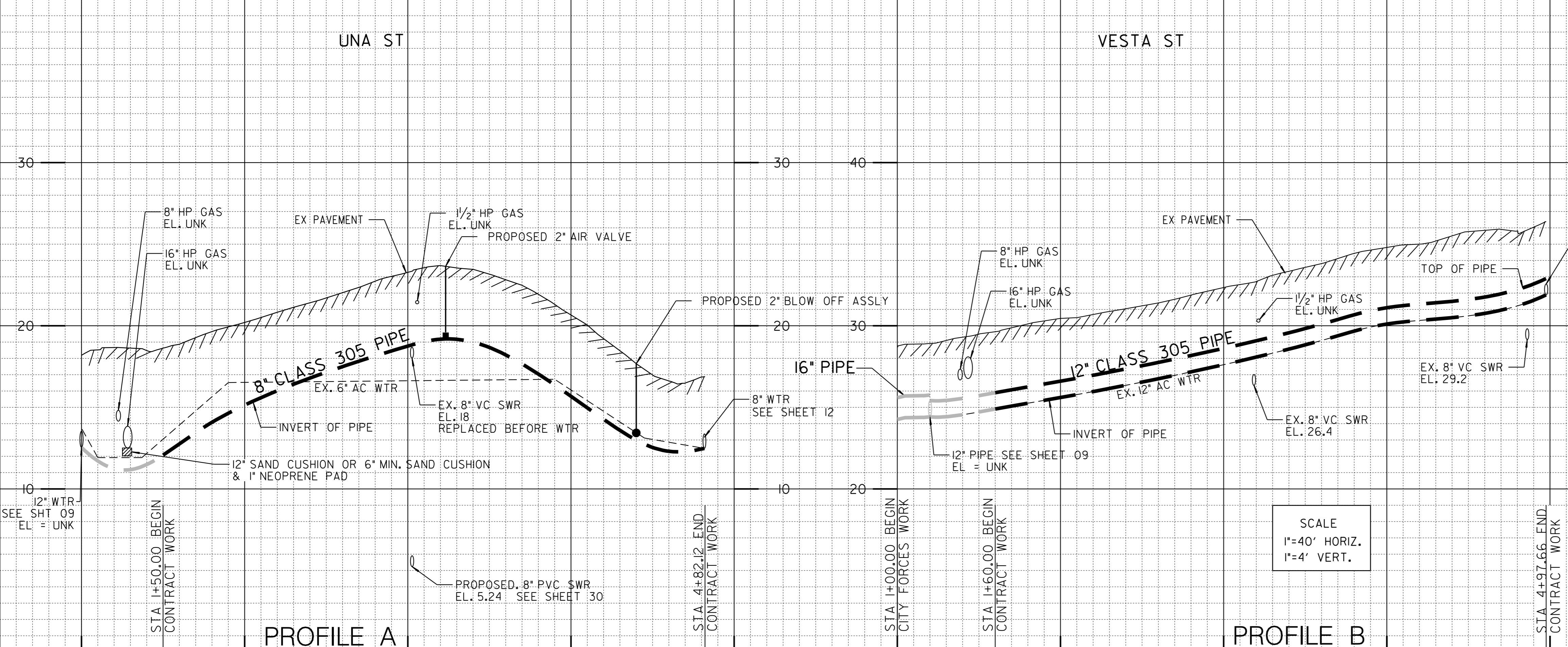
RETIREMENTS:  
16" - MATERIAL - 815' - 1975  
FH (2-PORT) - 1  
1" SERVICE - 31 - COPPER - 1975

AC WATER & SEWER GROUP 1052  
BIRCH STREET  
UNA STREET TO VESTA STREET

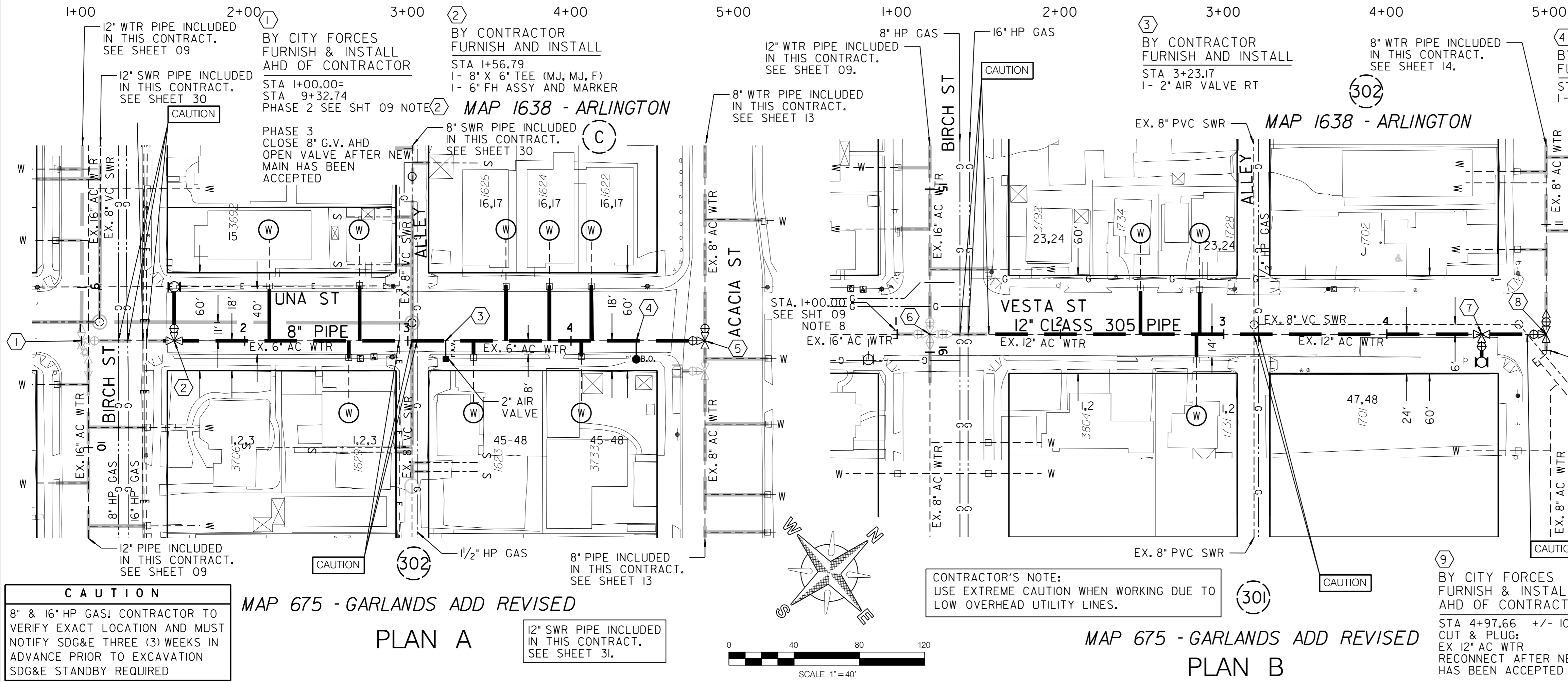
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 09 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: FOR CITY ENGINEER JANICE JARO DATE: 10/26/2021 PROJECT NUMBER: C70770	DATE: 10/26/2021 PROJECT NUMBER: C70770	PROJECT MANAGER: AMY MILLS PROJECT ENGINEER: JING DEBELISO
DESCRIPTION: ORIGINAL	BY: [Signature]	DATE FILMED: 10/26/21
1830-6291 CCS27 COORDINATE		190-1730 CCS27 COORDINATE
1830-6291 CCS83 COORDINATE		41338-09-D



ALIGNMENT: SHEET IOA						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831598.45	6295638.62	STRAIGHT	N 39°49'02" E	D = 56.79
PI	1+56.79	1831642.06	6295674.98	STRAIGHT	N 39°49'02" E	D = 166.38
PI	3+23.17	1831769.86	6295781.52	STRAIGHT	N 39°49'02" E	D = 116.83
PI	4+40.00	1831859.60	6295856.33	STRAIGHT	N 39°49'02" E	D = 42.12
POE	4+82.12	1831891.95	6295883.31			



ALIGNMENT: SHEET IOB						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831167.36	6296131.38	STRAIGHT	N 39°48'30" E	D = 20.00
PI	1+20.00	1831182.73	6296144.18	STRAIGHT	N 39°49'19" E	D = 338.12
PI	4+58.12	1831442.42	6296360.72	STRAIGHT	N 39°49'20" E	D = 39.56
POE	4+97.68	1831472.80	6296386.05			



**REFERENCE:**  
 WATER: IO136-19-D, 22703-3-D, 22703-4-D  
 SEWER: I6511-3-D, 22703-4-D, 27599-6-D, 27599-7-D  
 STORM DRAIN: GAS: I6050-I18655, I6050-I18660  
 ELECTRIC: I6050-I18655, I6050-I18660  
 CABLE TV: TELEPHONE:  
 IMPROVEMENTS: 100' SCALE/FIELD BOOK: I245  
 THOMAS BROS.: HGL: 390

**RETIREMENTS:**  
 6"-AC 380' - 1972  
 12"- AC - 388' - 1988  
 FH (2-PORT) - 2  
 1" SERVICE - II - COPPER - 1975

**BY CONTRACTOR FURNISH AND INSTALL**  
 STA 4+82.12  
 1- 8" X 8" TEE (F, F, MJ)  
 2 - 8" G.V. (F, MJ) BK, LT

**BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR**  
 STA 1+20.00-  
 STA 15+89.01  
 PHASE 2 SEE SHT 09 NOTE 7

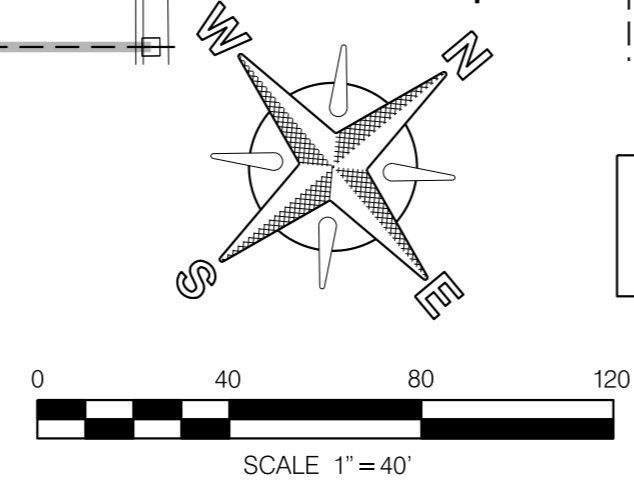
**BY CONTRACTOR FURNISH AND INSTALL**  
 STA 4+97.68  
 1-12" TEE (F, F, MJ)  
 2-12" G.V. (F, MJ) BK, LT  
 1- 12" X 8" REDUCER, LT

**CAUTION**  
 8" & 16" HP GAS: CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

**CONTRACTOR'S NOTE:**  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

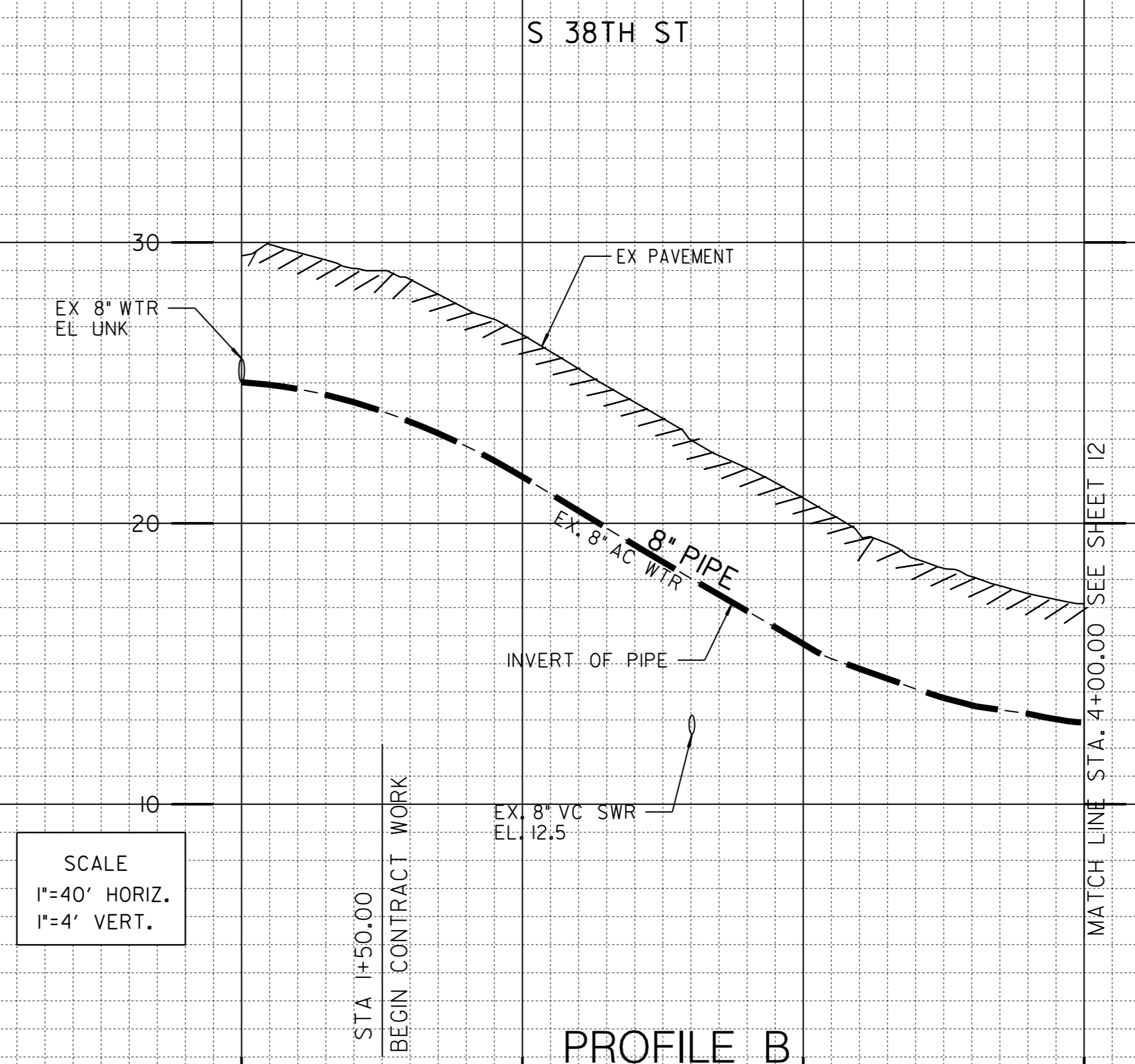
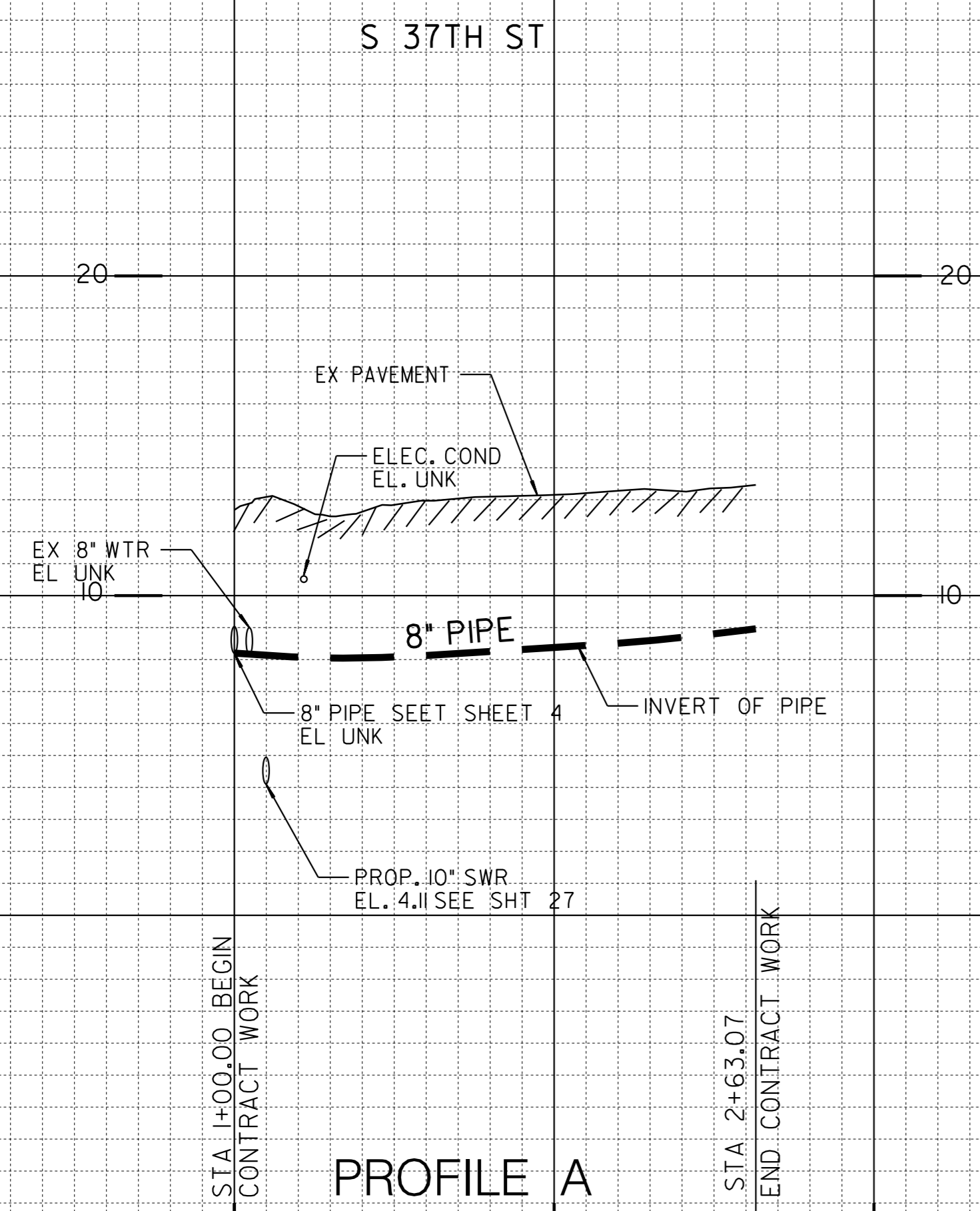
**BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR**  
 STA 4+97.66 +/- 10' RT  
 CUT & PLUG:  
 EX 12" AC WTR  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

AC WATER & SEWER GROUP 1052		UNA STREET & VESTA STREET BIRCH STREET TO ACACIA STREET / BIRCH STREET TO ACACIA STREET	
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 10 OF 56 SHEETS		WATER WBS	B-18092
APPROVED: <i>[Signature]</i> DATE: 10/26/2021 FOR CITY ENGINEER: JANICE JARO PRINT DGE NAME: RCE# C70770		SEWER WBS	B-18096
SUBMITTED BY: AMY MILLS PROJECT MANAGER		CHECKED BY: JING DEBELISO PROJECT ENGINEER	
DESCRIPTION: ORIGINAL		BY: JD/DW	APPROVED: <i>[Signature]</i> DATE: 10/26/21
190-1731 CCS27 COORDINATE		1830-6291 CCS83 COORDINATE	
41338-10-D		NTP DATE: _____ NOC DATE: _____	



UNA STREET & VESTA STREET

ALIGNMENT: SHEET IIA						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832219.67	6295676.15	STRAIGHT	N 0°19'06" E	D = 163.20
POE	2+63.20	1832382.87	6295677.05			

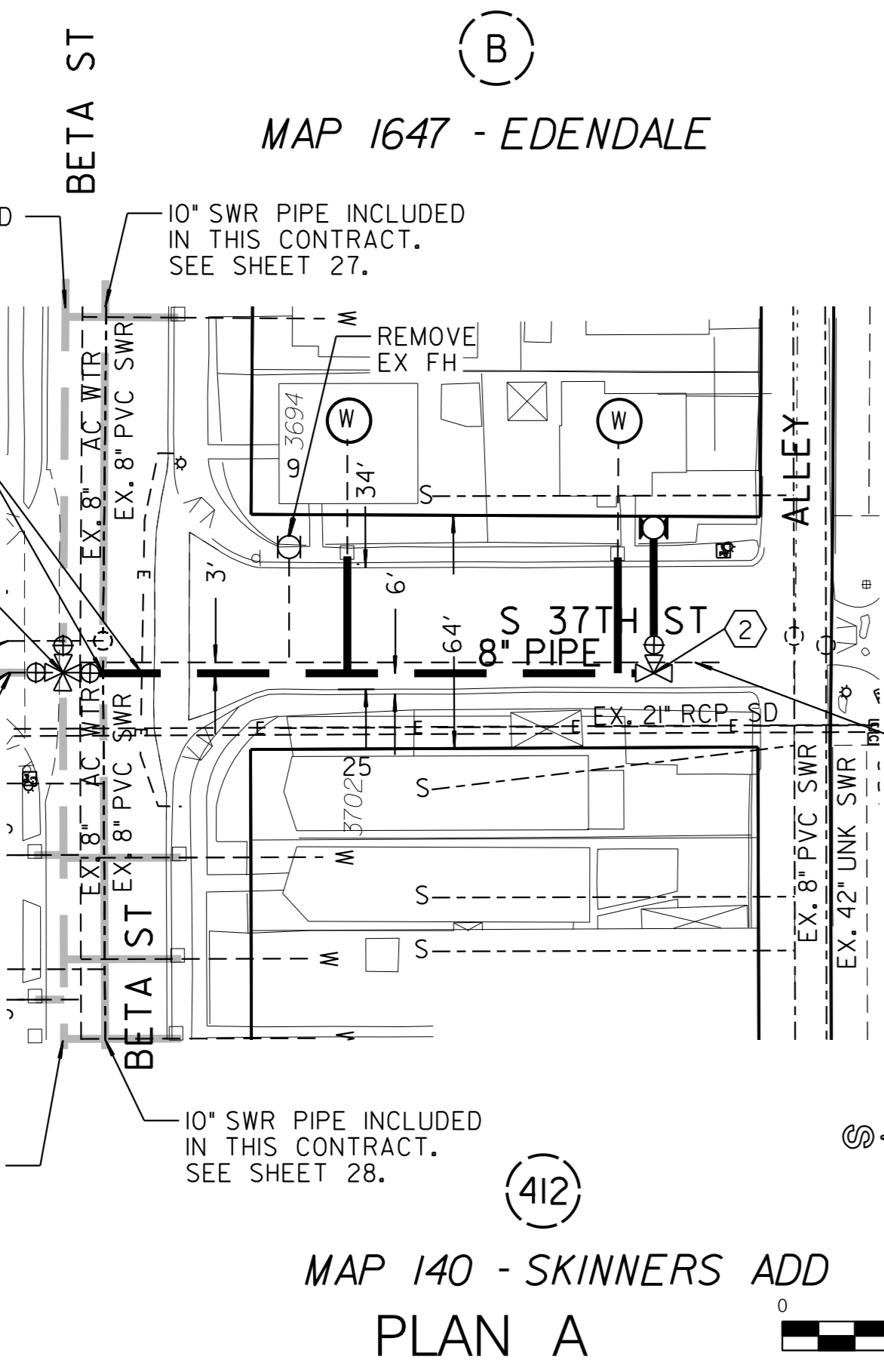


ALIGNMENT: SHEET IIB-12						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831643.11	6296181.78	STRAIGHT	N 40°15'59" E	D = 236.77
PI	3+36.77	1831823.78	6296334.81	STRAIGHT	N 40°14'58" E	D = 6.11
PI	3+42.88	1831828.44	6296338.76	STRAIGHT	N 0°00'12" E	D = 390.46
PI	7+33.34	1832218.90	6296338.78	STRAIGHT	N 0°02'03" W	D = 89.32
PI	8+22.65	1832308.22	6296338.73	STRAIGHT	N 0°02'01" W	D = 244.59
POE	10+67.25	1832552.81	6296338.51			

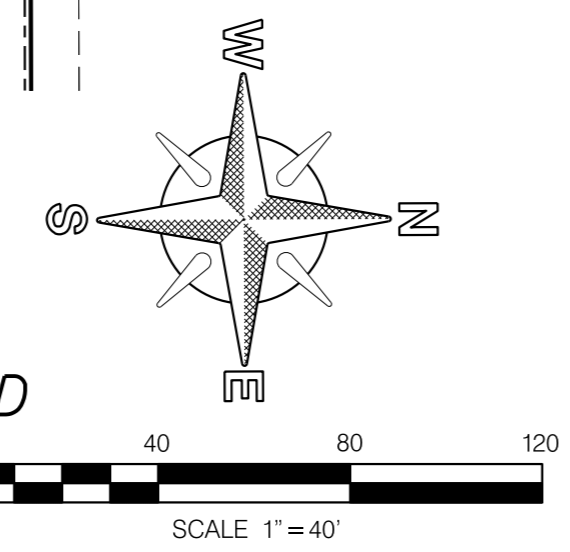
SCALE  
1"=40' HORIZ.  
1"=4' VERT.

PROFILE A

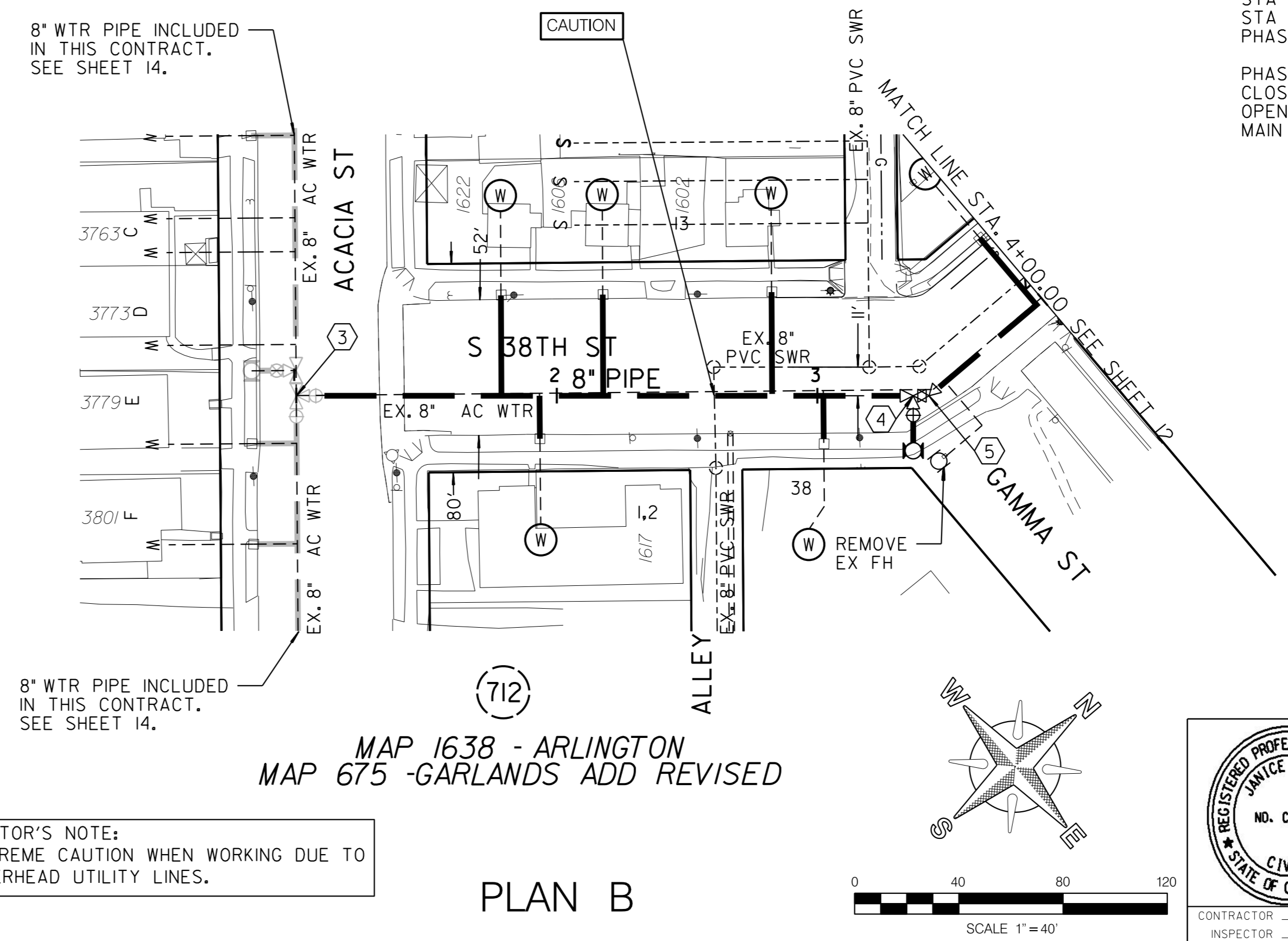
PROFILE B



- ① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 1+00.00= STA 7+91.13  
PHASE 1 SEE SHT 04 NOTE ⑤
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 2+63.20  
1- 8" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

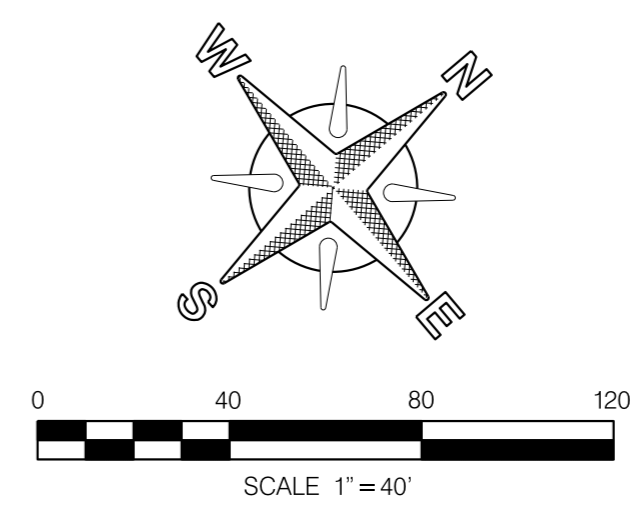


MAP 140 - SKINNERS ADD  
PLAN A



8" WTR PIPE INCLUDED IN THIS CONTRACT. SEE SHEET 14.

8" WTR PIPE INCLUDED IN THIS CONTRACT. SEE SHEET 14.



MAP 1638 - ARLINGTON  
MAP 675 - GARLANDS ADD REVISED  
PLAN B

- ③ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 1+00.00= STA 9+01.32  
PHASE 3 SEE SHT 14 NOTE ②
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+36.77  
1- 8" X 6" TEE (MJ, F, F)  
1- 6" FH ASSY AND MARKER
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+42.88  
1- 45 DEGREE BEND

REFERENCE:  
WATER: 22703-II-D, I2202-7-D  
SEWER: 27599-I6-D, 26285-6-D  
STORM DRAIN: 09867-D, 10019-D  
GAS: I6050-II8665  
ELECTRIC: I6050-II8665  
CABLE TV: COX FACILITY MAP 4  
TELEPHONE: IMPROVEMENTS:  
100' SCALE/FIELD BOOK: I245  
THOMAS BROS.: I2896  
HGL: 390

RETIREMENTS:  
8" - AC - 181' - 1986  
8" - AC - 300' - 1966  
FH (2-PORT) - 2  
1" SERVICE - 2 - COPPER - 1959  
1" SERVICE - 6 - COPPER - 1966

**AC WATER & SEWER GROUP 1052**

S 37TH STREET  
BETA STREET TO ALLEY BLK C

S 38TH STREET  
ACACIA STREET TO GAMMA STREET

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET II OF 56 SHEETS

WATER WBS B-18092  
SEWER WBS B-18096

APPROVED: *[Signature]* 10/26/2021  
FOR CITY ENGINEER DATE  
JANICE JARO C70770  
PRINT NAME RCE#

DESIGNED BY: AMY MILLS  
PROJECT MANAGER  
CHECKED BY: JING DEBELISO  
PROJECT ENGINEER

DESCRIPTION	JD/DW	APPROVED	DATE	FILMED
ORIGINAL			10/26/21	

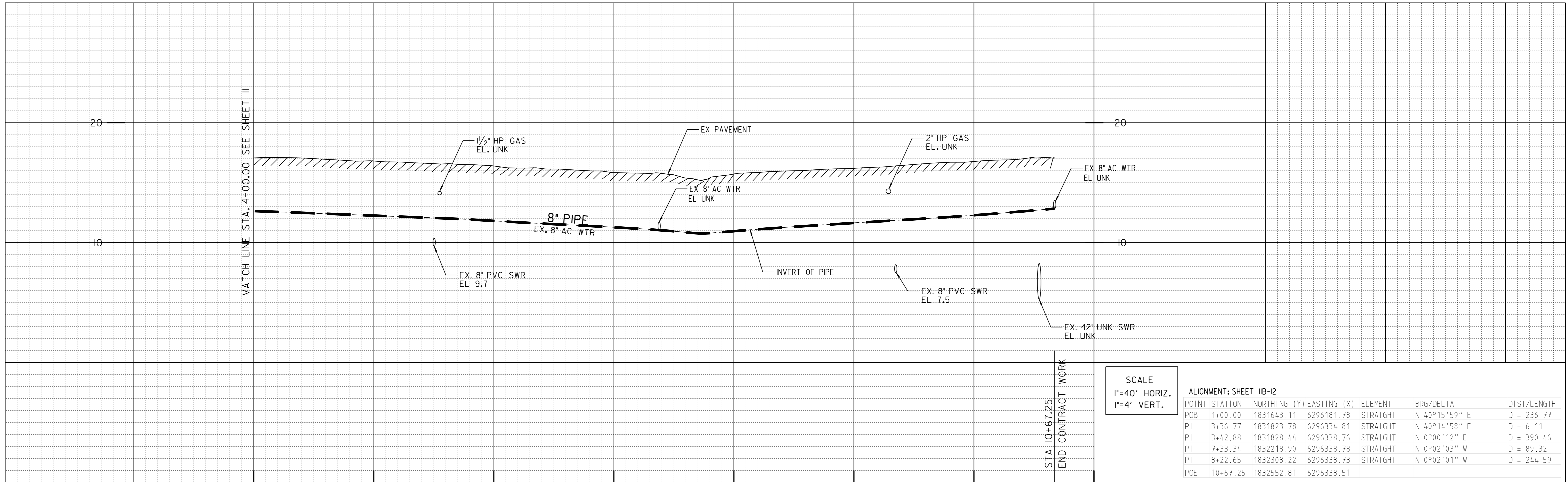
190-1731  
190-1730  
1830-6291  
1830-6291

CONTRACTOR INSPECTOR \_\_\_\_\_ NTP DATE \_\_\_\_\_  
1830-6291 NOC DATE \_\_\_\_\_

41338-11-D

CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.

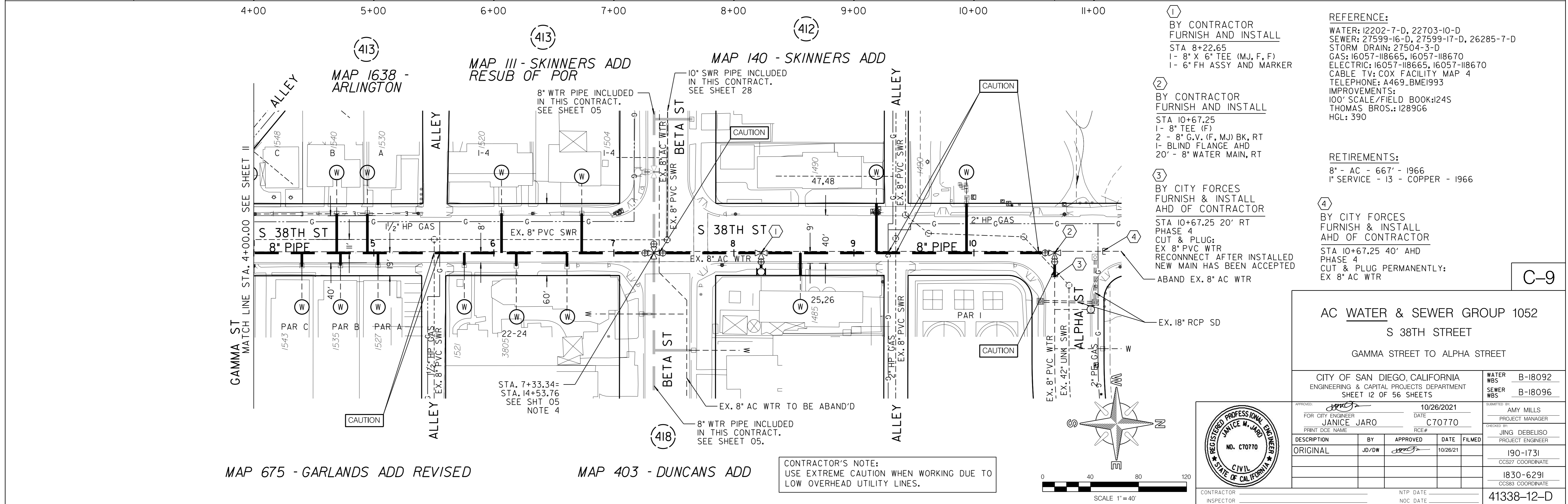
S 37TH STREET & S 38TH STREET



SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

ALIGNMENT: SHEET 11B-12

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831643.11	6296181.78	STRAIGHT	N 40°15'59" E	D = 236.77
PI	3+36.77	1831823.78	6296334.81	STRAIGHT	N 40°14'58" E	D = 6.11
PI	3+42.88	1831828.44	6296338.76	STRAIGHT	N 0°00'12" E	D = 390.46
PI	7+33.34	1832218.90	6296338.78	STRAIGHT	N 0°02'03" W	D = 89.32
PI	8+22.65	1832308.22	6296338.73	STRAIGHT	N 0°02'01" W	D = 244.59
POE	10+67.25	1832552.81	6296338.51			



① BY CONTRACTOR FURNISH AND INSTALL  
 STA 8+22.65  
 1- 8" X 6" TEE (MJ, F, F)  
 1- 6" FH ASSY AND MARKER

② BY CONTRACTOR FURNISH AND INSTALL  
 STA 10+67.25  
 1- 8" TEE (F)  
 2 - 8" G.V. (F, MJ) BK, RT  
 1- BLIND FLANGE AHD  
 20' - 8" WATER MAIN, RT

③ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
 STA 10+67.25 20' RT PHASE 4  
 CUT & PLUG;  
 EX 8" PVC WTR RECONNECT AFTER INSTALLED NEW MAIN HAS BEEN ACCEPTED  
 ABAND EX. 8" AC WTR

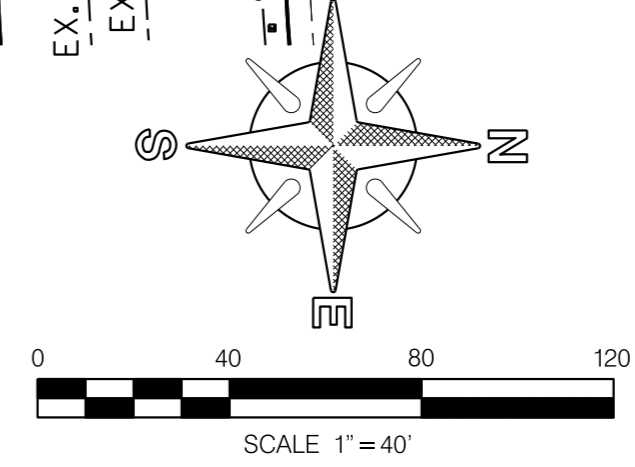
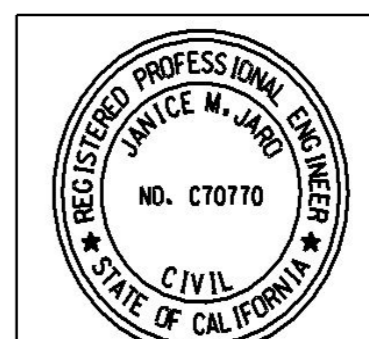
REFERENCE:  
 WATER: I2202-7-D, 22703-10-D  
 SEWER: 27599-16-D, 27599-17-D, 26285-7-D  
 STORM DRAIN: 27504-3-D  
 GAS: I6057-I18665, I6057-I18670  
 ELECTRIC: I6057-I18665, I6057-I18670  
 CABLE TV: COX FACILITY MAP 4  
 TELEPHONE: A469.BME1993  
 IMPROVEMENTS:  
 100' SCALE/FIELD BOOK: I24S  
 THOMAS BROS.: I289G6  
 HGL: 390

RETIREMENTS:  
 8" - AC - 667' - 1966  
 1" SERVICE - 13 - COPPER - 1966

④ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
 STA 10+67.25 40' AHD  
 CUT & PLUG PERMANENTLY;  
 EX 8" AC WTR

AC WATER & SEWER GROUP 1052  
 S 38TH STREET  
 GAMMA STREET TO ALPHA STREET

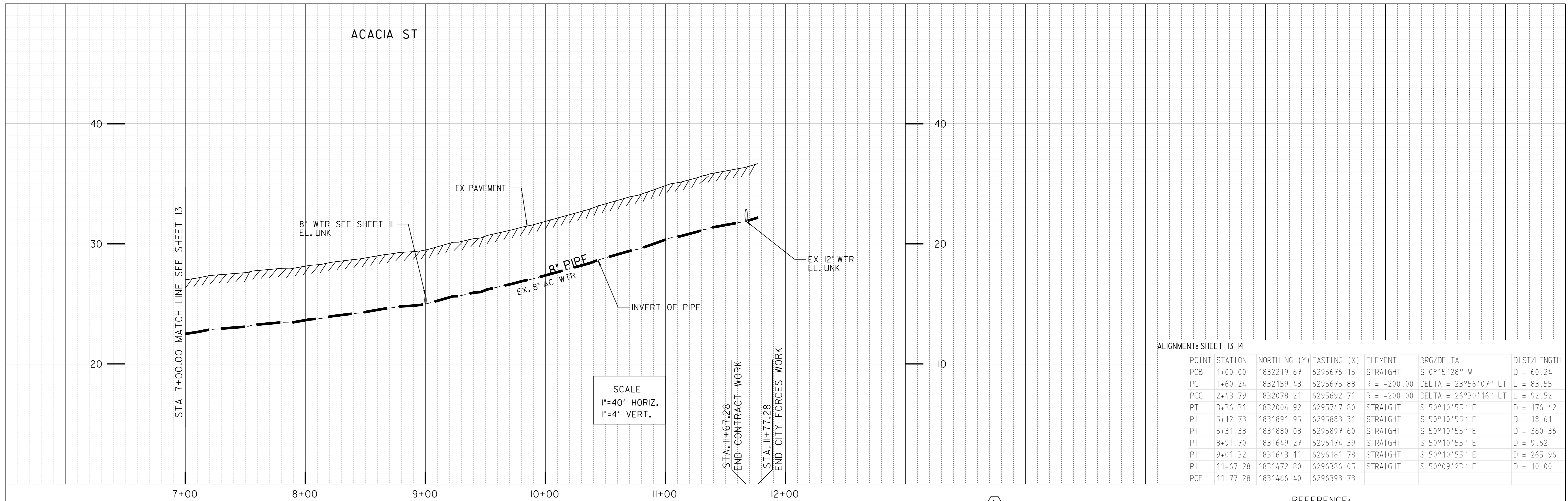
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 12 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER DATE 10/26/2021 PRINT NAME: JANICE JARO RCE# C70770	PROJECT MANAGER: AMY MILLS PROJECT ENGINEER: JING DEBELISO	
DESCRIPTION: ORIGINAL	BY: <i>[Signature]</i>	APPROVED: <i>[Signature]</i>
	DATE: 10/26/21	FILED: <i>[Signature]</i>
		190-1731 CCS27 COORDINATE
		1830-6291 CCS83 COORDINATE
		41338-12-D



CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.







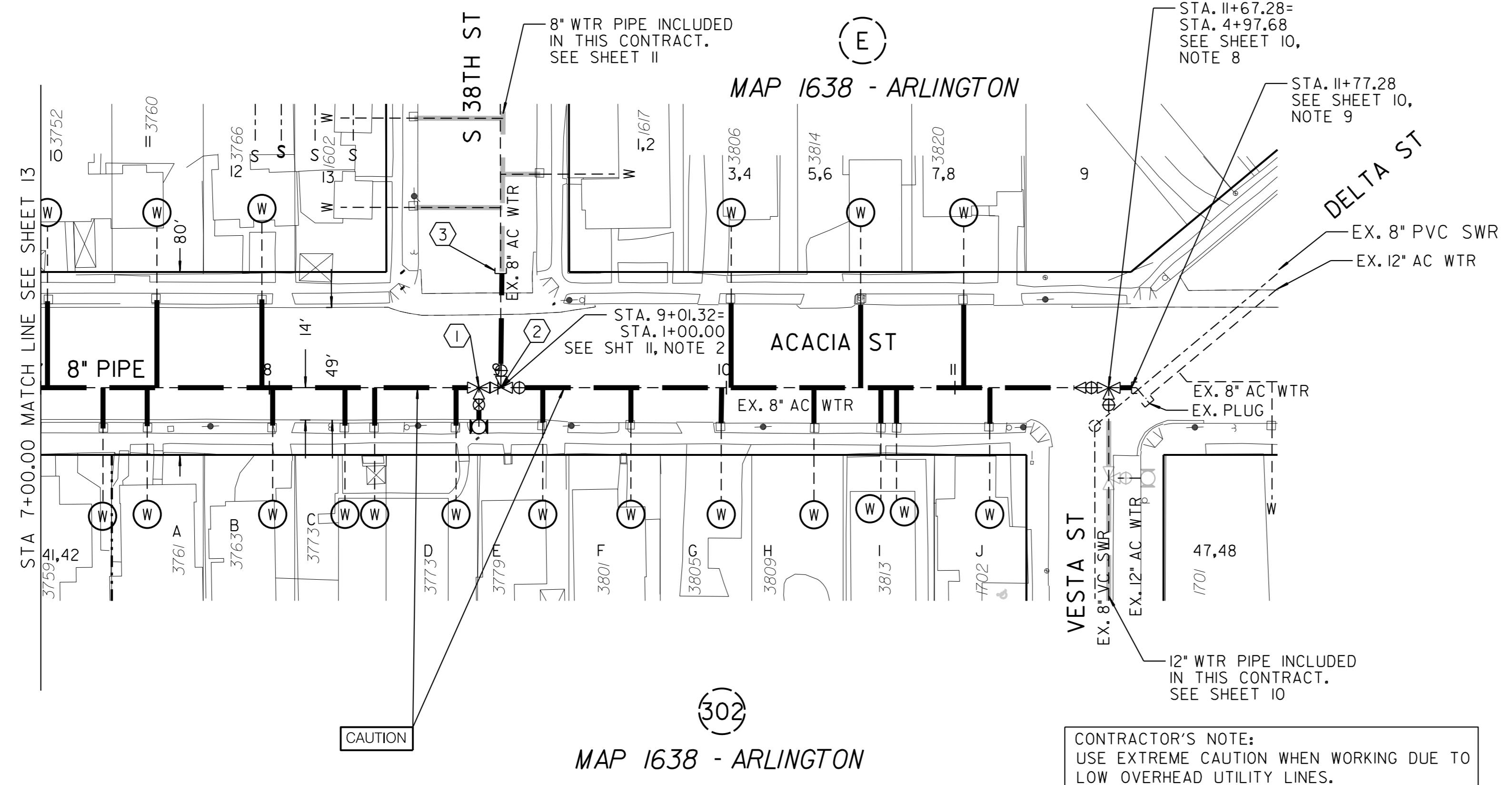
ALIGNMENT: SHEET 13-14

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832219.67	6295676.15	STRAIGHT	S 0°15'28" W	D = 60.24
PC	1+60.24	1832159.43	6295675.88	R = -200.00	DELTA = 23°56'07" LT	L = 83.55
PCC	2+43.79	1832078.21	6295692.71	R = -200.00	DELTA = 26°30'16" LT	L = 92.52
PT	3+36.31	1832004.92	6295747.80	STRAIGHT	S 50°10'55" E	D = 176.42
PI	5+12.73	1831891.95	6295883.31	STRAIGHT	S 50°10'55" E	D = 18.61
PI	5+31.33	1831880.03	6295897.60	STRAIGHT	S 50°10'55" E	D = 360.36
PI	8+91.70	1831649.27	6296174.39	STRAIGHT	S 50°10'55" E	D = 9.62
PI	9+01.32	1831643.11	6296181.78	STRAIGHT	S 50°10'55" E	D = 265.96
PI	11+67.28	1831472.80	6296386.05	STRAIGHT	S 50°09'23" E	D = 10.00
POE	11+77.28	1831466.40	6296393.73			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

STA. 11+67.28  
END CONTRACT WORK

STA. 11+77.28  
END CITY FORCES WORK

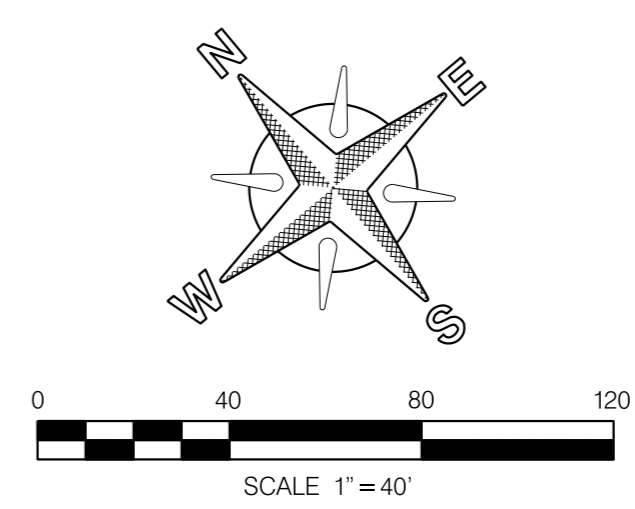


- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 8+91.70  
1 - 8" X 6" TEE (M,J, F, F)  
1 - 6" FH ASSY AND MARKER
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 9+01.32  
1 - 8" TEE (F)  
2 - 8" C.V. (F, M, J) AHD, LT  
50' - 8" PIPE LT
- ③ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 9+01.32 +/- 50' LT  
CUT & PLUG:  
EX 8" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

REFERENCE:  
WATER: 10081-6-D, 12202-7-D, 14286-L  
SEWER: 27599-12-D, 22703-4-D  
STORM DRAIN:  
GAS: 16050-118660, 16050-118665  
ELECTRIC: 16050-118660, 16050-118665  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: 1245  
THOMAS BROS.: 128966  
HGL: 390

RETIREMENTS:  
8" - AC - 278' - 1959  
8" - AC - 213' - 1961  
FH (3-PORT) - 1  
1" SERVICE - 7 - COPPER - 1961  
1" SERVICE - 8 - COPPER - 1959  
1" SERVICE - 1 - COPPER - 2011  
3/4" SERVICE - 1 - COPPER - 1958  
3/4" SERVICE - 2 - COPPER - 1961

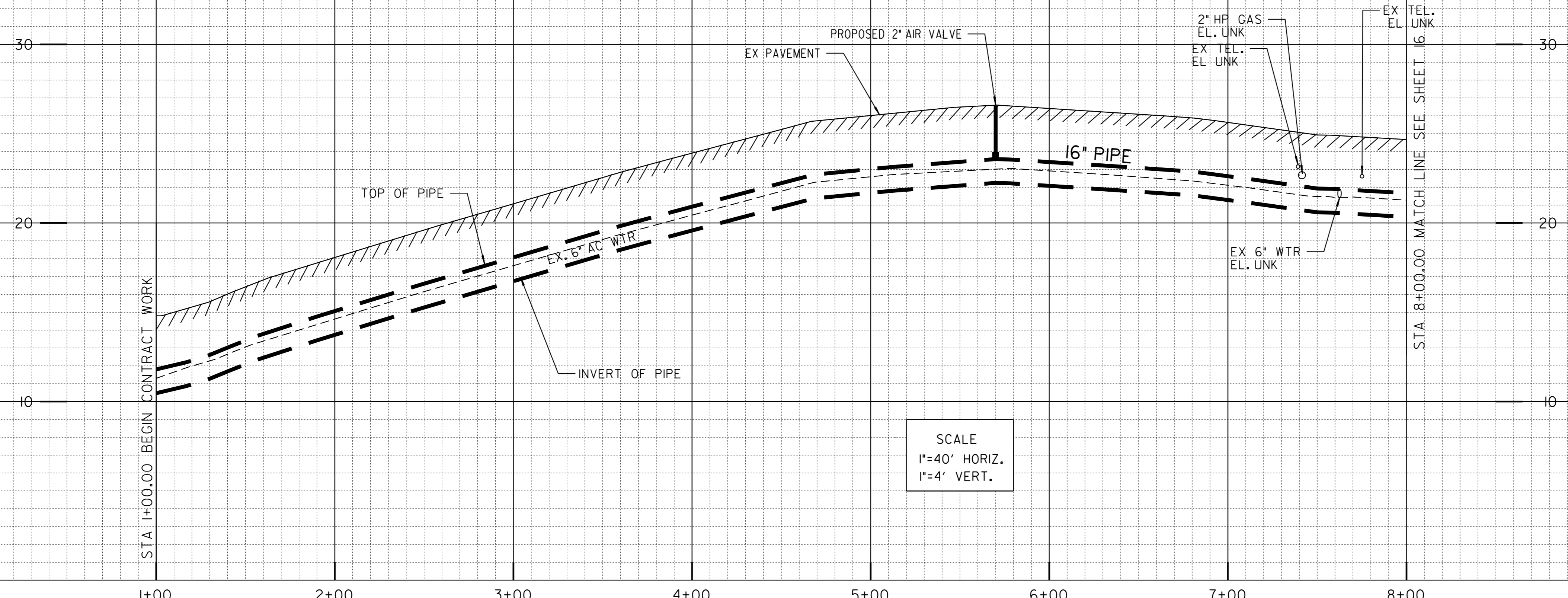
CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



C-11

AC WATER & SEWER GROUP 1052 ACACIA STREET S 38TH STREET TO VESTA STREET		WATER WBS B-18092 SEWER WBS B-18096
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 14 OF 56 SHEETS		APPROVED: [Signature] DATE: 10/26/2021 FOR CITY ENGINEER: JANICE JARO PRINT DCE NAME: JANICE JARO RCE#
SUBMITTED BY: AMY MILLS PROJECT MANAGER		ORDERED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JD/DW	[Signature]
		DATE
		10/26/21
		FILMED
		190-1731
		CCS27 COORDINATE
		1830-6291
		CCS83 COORDINATE
		41338-14-D

DALBERGIA ST

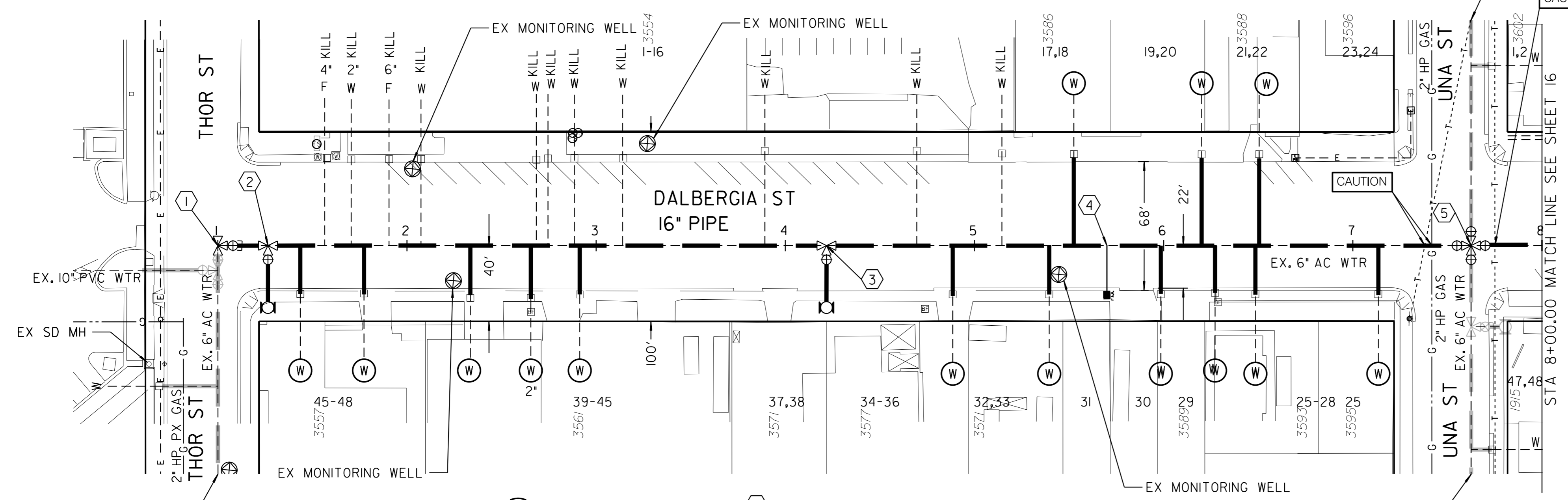


ALIGNMENT: SHEET 15-17

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831434.11	6294637.55	STRAIGHT	S 50°09'22" E	D = 26.50
PI	1+26.50	1831417.14	6294657.89	STRAIGHT	S 50°09'22" E	D = 295.28
PI	4+21.78	1831227.95	6294884.61	STRAIGHT	S 50°09'22" E	D = 148.22
PI	5+70.00	1831132.99	6294998.41	STRAIGHT	S 50°09'22" E	D = 192.51
PI	7+62.51	1831009.65	6295146.22	STRAIGHT	S 50°12'08" E	D = 372.16
PI	11+34.67	1830771.43	6295432.15	STRAIGHT	S 50°12'08" E	D = 4.95
PI	11+39.62	1830768.27	6295435.95	STRAIGHT	S 50°12'08" E	D = 278.72
PI	14+18.33	1830589.87	6295650.09	STRAIGHT	S 50°11'42" E	D = 13.99
PI	14+32.32	1830580.91	6295660.84	STRAIGHT	N 88°12'56" E	D = 9.13
PI	14+41.44	1830581.20	6295669.96	STRAIGHT	S 50°12'06" E	D = 8.57
PI	14+50.01	1830575.71	6295676.54	STRAIGHT	S 50°10'02" E	D = 264.72
PI	17+14.74	1830406.14	6295879.83	STRAIGHT	S 50°12'26" E	D = 135.28
PI	18+50.01	1830319.57	6295983.77	STRAIGHT	S 50°10'51" E	D = 199.57
PI	20+49.58	1830191.77	6296137.05	STRAIGHT	S 5°10'47" E	D = 8.40
PI	20+57.98	1830183.41	6296137.81	STRAIGHT	S 50°11'26" E	D = 29.69
POE	20+87.67	1830164.40	6296160.62			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

263  
MAP 220 - GUIONS ADD



253  
MAP 1645 - WEST ARLINGTON

- 3 BY CONTRACTOR FURNISH AND INSTALL  
STA 4+21.78  
1- 16" X 6" TEE (M.J, M.J, F)  
1- 6" FH (3-PORT) ASSY AND MARKER
- 4 BY CONTRACTOR FURNISH AND INSTALL  
STA 5+70.00  
1- 2" AIR VALVE RT
- 5 BY CONTRACTOR FURNISH AND INSTALL  
STA 7+62.51=  
STA 4+25.90 SEE SHEET 19  
1- 16" X 16" CROSS (F)  
4 - 16" B.V. (F, MJ) BK, AHD, LT, RT

REFERENCE:  
WATER: 2354-4-D,2354-6-D  
SEWER:  
STORM DRAIN:  
GAS: 16035-118655, 16035-118660, 16042-118655  
ELECTRIC: 16035-118655, 16035-118660  
CABLE TV:  
TELEPHONE: A469\_BMF1992  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK:1245  
THOMAS BROS.: 1289F6  
HGL: 390

RETIREMENTS:  
6" - AC - 700' - 1947  
FH (2-PORT) - 1  
1" SERVICE - 21- COPPER - 1947  
2" SERVICE - 2 - COPPER - 1947  
4" FIRE SERVICE - 1- ASBESTOS CEMENT - UNK  
6" FIRE SERVICE - 1- UNK - UNK

16" PIPE INCLUDED IN THIS CONTRACT. SEE SHEET 18.

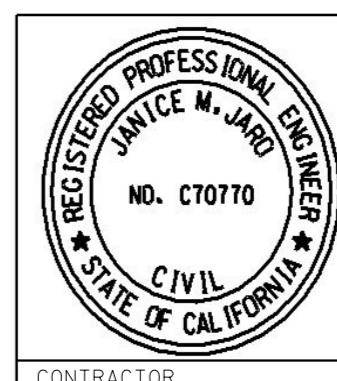
1 BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00.00 = STA 4+32.57  
SEE SHEET 18  
1- 16" TEE (F, F, MJ)  
1- 16" BLIND FLANGE LT  
1- 16" B.V. (F, MJ) AHD  
10' - 6" WATER MAIN, AHD

2 BY CONTRACTOR FURNISH AND INSTALL  
STA 1+26.50  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FH (3-PORT) ASSY AND MARKER

16" PIPE INCLUDED IN THIS CONTRACT. SEE SHEET 19



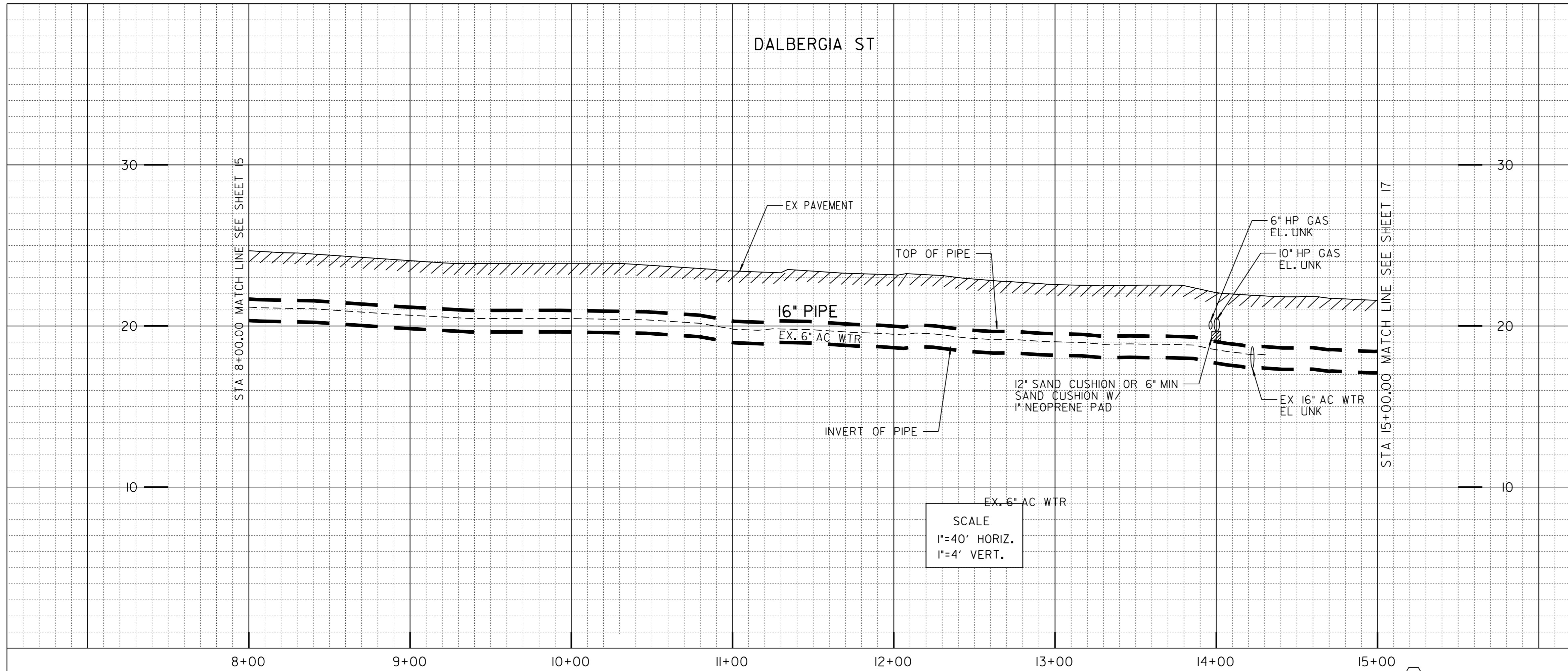
SCALE 1"=40'



**AC WATER & SEWER GROUP 1052**  
DALBERGIA STREET  
THOR STREET TO UNA STREET

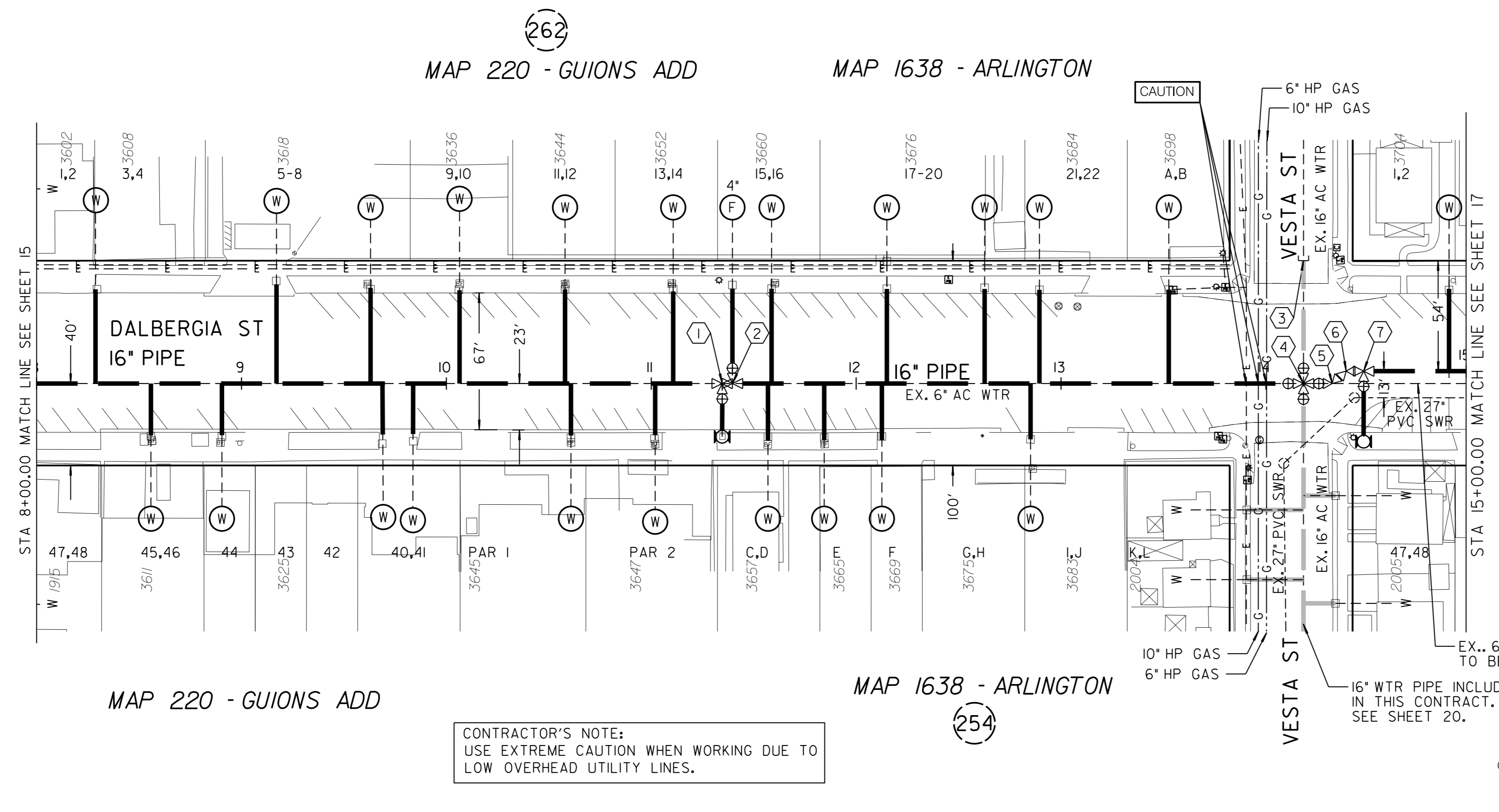
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 15 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED FOR CITY ENGINEER JANICE JARO DATE 10/26/2021 RCE# C70770	SUBMITTED BY AMY MILLS PROJECT MANAGER	CHIEF ENGINEER JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY	APPROVED
		DATE 10/26/21
		FILED
		190-1731
		CCS27 COORDINATE
		1830-6291
		CCS83 COORDINATE
CONTRACTOR INSPECTOR	NTP DATE	41338-15-D
	NOC DATE	

DALBERGIA STREET



ALIGNMENT: SHEET 15-17

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831434.11	6294637.55	STRAIGHT	S 50°09'22" E	D = 26.50
PI	1+26.50	1831417.14	6294657.89	STRAIGHT	S 50°09'22" E	D = 295.28
PI	4+21.78	1831227.95	6294884.61	STRAIGHT	S 50°09'22" E	D = 148.22
PI	5+70.00	1831132.99	6294998.41	STRAIGHT	S 50°09'22" E	D = 192.51
PI	7+62.51	1831009.65	6295146.22	STRAIGHT	S 50°12'08" E	D = 372.16
PI	11+34.67	1830771.43	6295432.15	STRAIGHT	S 50°12'08" E	D = 4.95
PI	11+39.62	1830768.27	6295435.95	STRAIGHT	S 50°12'08" E	D = 278.72
PI	14+18.33	1830589.87	6295650.09	STRAIGHT	S 50°11'42" E	D = 13.99
PI	14+32.32	1830580.91	6295660.84	STRAIGHT	N 88°12'56" E	D = 9.13
PI	14+41.44	1830581.20	6295669.96	STRAIGHT	S 50°12'06" E	D = 8.57
PI	14+50.01	1830575.71	6295676.54	STRAIGHT	S 50°10'02" E	D = 264.72
PI	17+14.74	1830406.14	6295879.83	STRAIGHT	S 50°12'26" E	D = 135.28
PI	18+50.01	1830319.57	6295983.77	STRAIGHT	S 50°10'51" E	D = 199.57
PI	20+49.58	1830191.77	6296137.05	STRAIGHT	S 5°10'47" E	D = 8.40
PI	20+57.98	1830183.41	6296137.81	STRAIGHT	S 50°11'26" E	D = 29.69
POE	20+87.67	1830164.40	6296160.62			



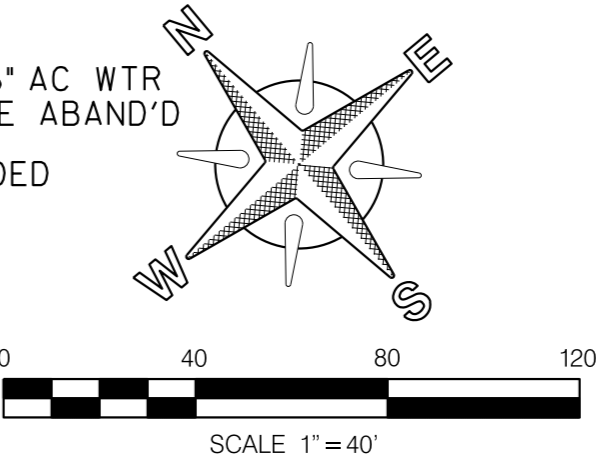
- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 11+34.67  
1 - 16" X 6" TEE (MJ, MJ, F)  
1 - 6" FH (3-PORT) ASSY AND MARKER
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 11+39.62  
1 - 16" X 4" TEE (MJ, MJ, F)  
1 - 4" FIRE SERVICE CONNECTION
- ③ BY CITY FORCES FURNISH & INSTALL AND OF CONTRACTOR  
STA 14+18.33 +/- 60" LT=  
STA 4+91.74  
SEE SHT 20, PLAN A  
CUT & PLUG:  
EX 16" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 14+18.33=  
STA 4+31.74  
SEE SHT 20, PLAN A  
1 - 16" CROSS (F)  
4 - 16" B.V. (F, MJ) BK, AHD, LT, RT
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 14+32.32  
1 - 16" 45" BEND
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 14+41.44  
1 - 16" 45" BEND
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 14+50.01  
1 - 16" X 6" TEE (MJ, MJ, F)  
1 - 6" FH (3-PORT) ASSY AND MARKER

**REFERENCE:**  
WATER: 23546-D  
SEWER: 26309-6-D  
STORM DRAIN:  
GAS: 16050-118650  
ELECTRIC: 16050-118650  
CABLE TV: COX FACILITY MAP 3, 4  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: 1245  
THOMAS BROS.: I289G7  
HGL: 390

**RETIREMENTS:**  
6" AC - 700' - 1987  
FH (1-PORT) - 1  
FH (2-PORT) - 1  
1" SERVICE - 22 - COPPER - 1987  
4" FIRE SERVICE - 1 - UNK - UNK

**CAUTION**  
10" & 6" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED



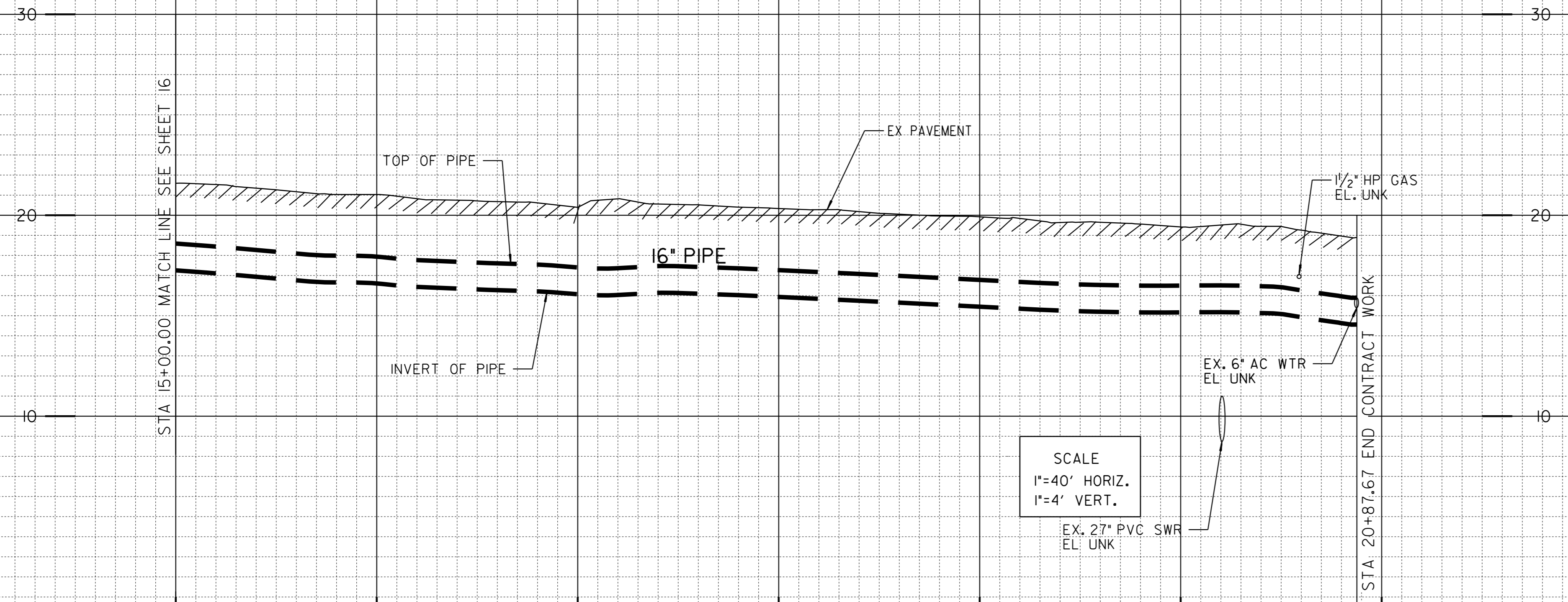
**CONTRACTOR'S NOTE:**  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

**AC WATER & SEWER GROUP 1052**  
DALBERGIA STREET  
EO UNA STREET TO VESTA STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 16 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: [Signature] FOR CITY ENGINEER JANICE JARO PRINT DGE NAME	DATE 10/26/2021 PROJECT NO. C70770 RCE#	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY	APPROVED
	JD/DW	[Signature]
		DATE 10/26/21
		FILMED
		190-1731
		CCS27 COORDINATE
		1830-6291
		CCS83 COORDINATE
		41338-16-D

DALBERGIA STREET

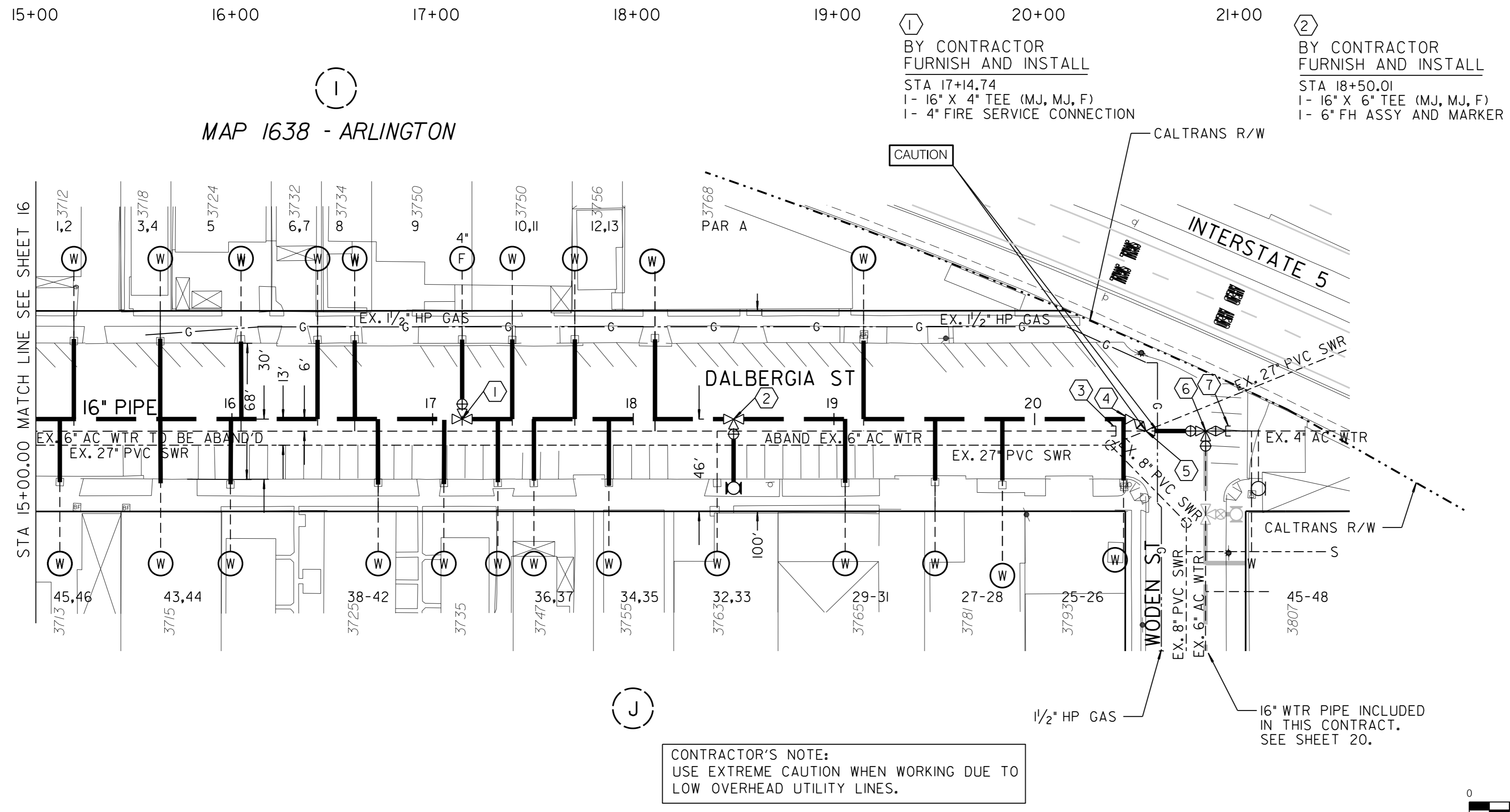
DALBERGIA ST



ALIGNMENT: SHEET 15-17

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/Delta	DIST/LENGTH
POB	1+00.00	1831434.11	6294637.55	STRAIGHT	S 50°09'22" E	D = 26.50
PI	1+26.50	1831417.14	6294657.89	STRAIGHT	S 50°09'22" E	D = 295.28
PI	4+21.78	1831227.95	6294884.61	STRAIGHT	S 50°09'22" E	D = 148.22
PI	5+70.00	1831132.99	6294998.41	STRAIGHT	S 50°09'22" E	D = 192.51
PI	7+62.51	1831009.65	6295146.22	STRAIGHT	S 50°12'08" E	D = 372.16
PI	11+34.67	1830771.43	6295432.15	STRAIGHT	S 50°12'08" E	D = 4.95
PI	11+39.62	1830768.27	6295435.95	STRAIGHT	S 50°12'08" E	D = 278.72
PI	14+18.33	1830589.87	6295650.09	STRAIGHT	S 50°11'42" E	D = 13.99
PI	14+32.32	1830580.91	6295660.84	STRAIGHT	N 88°12'56" E	D = 9.13
PI	14+41.44	1830581.20	6295669.96	STRAIGHT	S 50°12'06" E	D = 8.57
PI	14+50.01	1830575.71	6295676.54	STRAIGHT	S 50°10'02" E	D = 264.72
PI	17+14.74	1830406.14	6295879.83	STRAIGHT	S 50°12'26" E	D = 135.28
PI	18+50.01	1830319.57	6295983.77	STRAIGHT	S 50°10'51" E	D = 199.57
PI	20+49.58	1830191.77	6296137.05	STRAIGHT	S 5°10'47" E	D = 8.40
PI	20+57.98	1830183.41	6296137.81	STRAIGHT	S 50°11'26" E	D = 29.69
POE	20+87.67	1830164.40	6296160.62			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

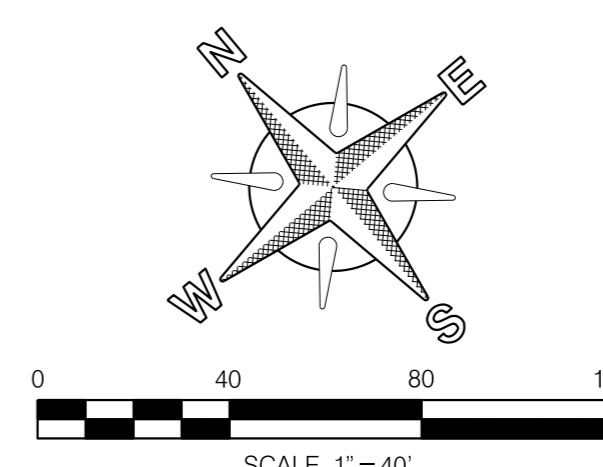


MAP 1638 - ARLINGTON

- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 17+4.74  
1- 16" X 4" TEE (MJ, MJ, F)  
1- 4" FIRE SERVICE CONNECTION
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 18+50.01  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ③ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 20+40.52 +/- 5.94' RT PHASE 5  
CUT & PLUG PERMANENTLY:  
EX 6" AC WTR
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 20+49.58  
1- 16" 45° BEND (MJ) RT
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 20+57.98  
1- 16" 45° BEND (MJ) LT
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 20+87.67  
1- 16" TEE (F)  
2- 16" B.V. (F, MJ) BK, RT  
1- 16" x 4" REDUCER AHD
- ⑦ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 20+87.67 +/- 10' AHD PHASE 5  
CUT & PLUG PERMANENTLY:  
EX 4" AC WTR

REFERENCE:  
WATER: 23546-. 09916-25-D  
SEWER: 26309-6-D  
STORM DRAIN:  
GAS: 16050-118645  
ELECTRIC: 16050-118645  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: 124S  
THOMAS BROS.: 1289G7  
HGL: 390

RETIREMENTS:  
6" - AC - 585' - 1947  
3/4" SERVICE - 1- COPPER - 1947  
3/4" SERVICE - 1- COPPER - 1973  
1" SERVICE - 20 - COPPER - 1962  
4" FIRE SERVICE - 1- PVC - UNK

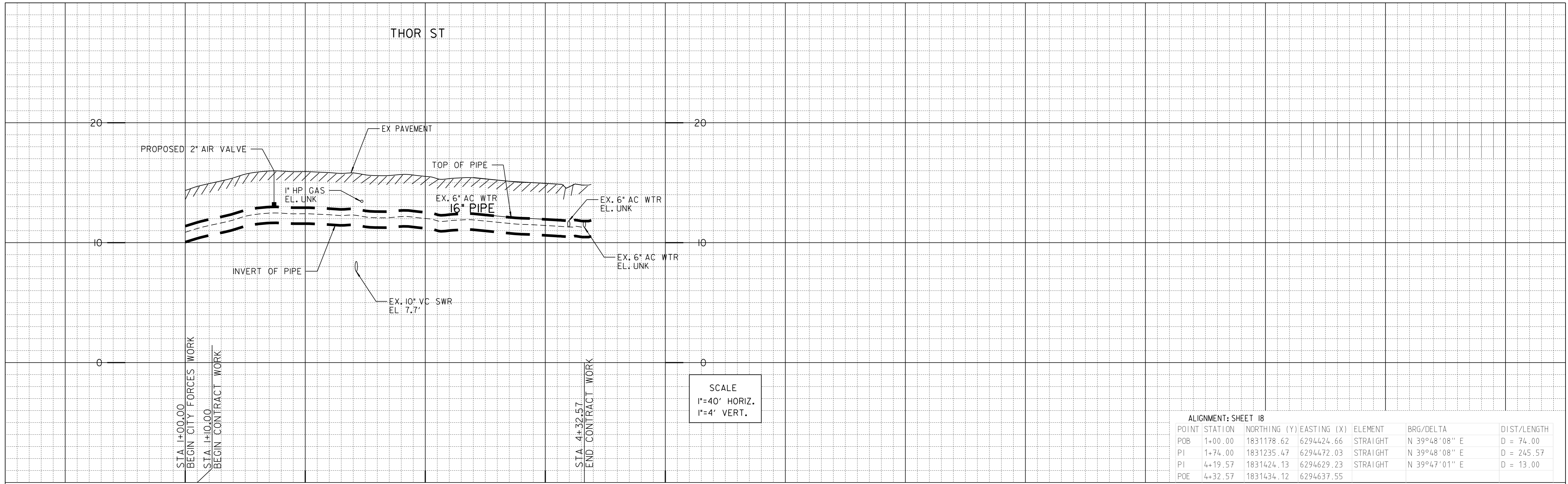


CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

**AC WATER & SEWER GROUP 1052**  
DALBERGIA STREET  
EO VESTA STREET TO WODEN STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 17 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT NAME	DATE 10/26/2021 PROJECT # C70770	SUBMITTED BY AMY MILLS PROJECT MANAGER CHECKED BY JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
		DATE 10/26/21
		FILMED
		190-1731 CCS27 COORDINATE
		1830-6291 CCS83 COORDINATE
		41338-17-D

DALBERGIA STREET



ALIGNMENT: SHEET 18

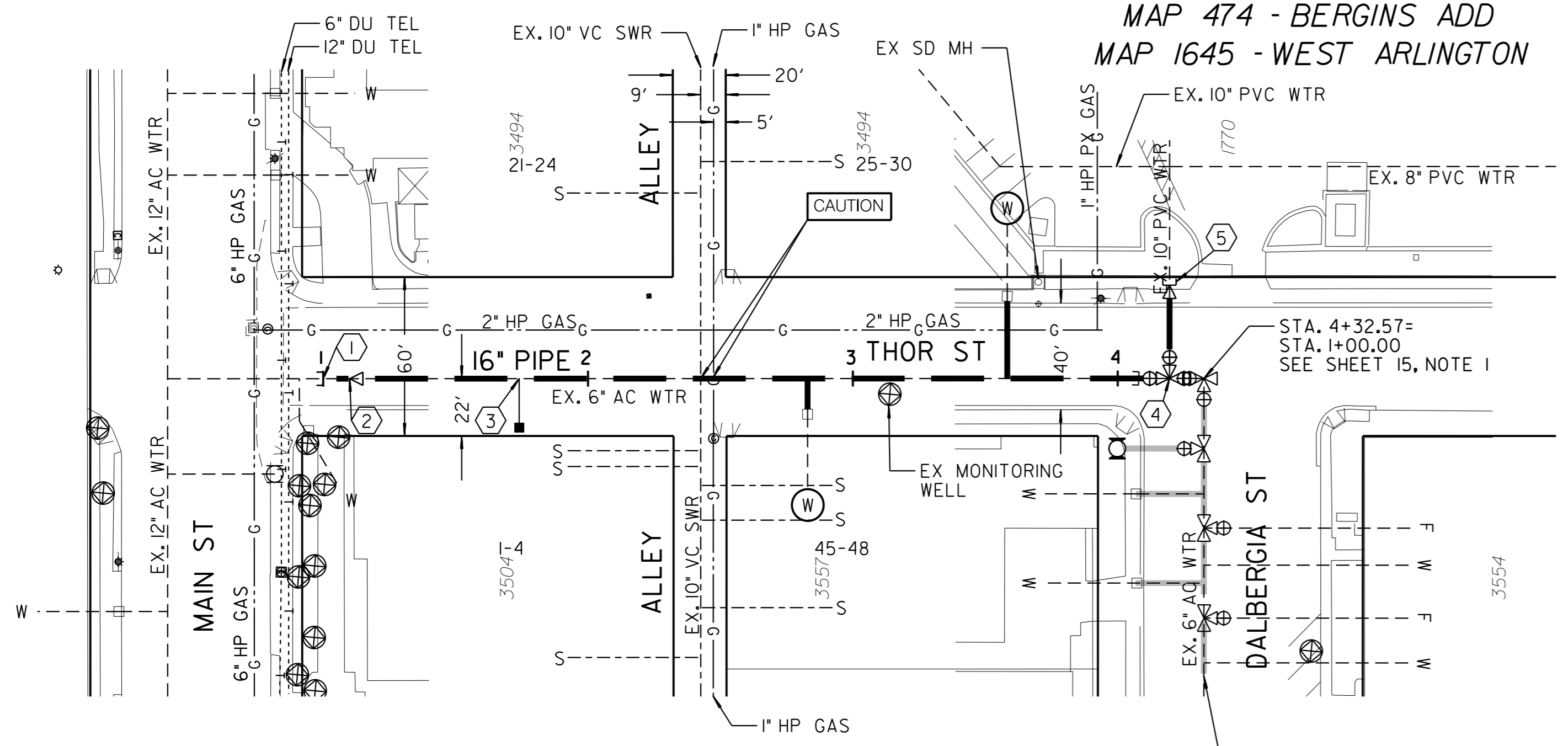
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831178.62	6294424.66	STRAIGHT	N 39°48'08" E	D = 74.00
PI	1+74.00	1831235.47	6294472.03	STRAIGHT	N 39°48'08" E	D = 245.57
PI	4+19.57	1831424.13	6294629.23	STRAIGHT	N 39°47'01" E	D = 13.00
POE	4+32.57	1831434.12	6294637.55			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.

474

MAP 474 - BERGINS ADD  
MAP 1645 - WEST ARLINGTON



253

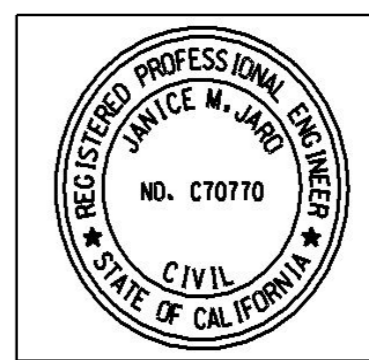
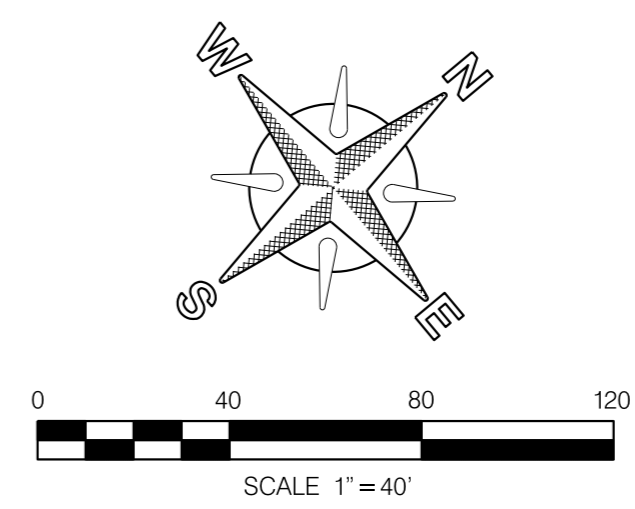
MAP 1645 - WEST ARLINGTON

- ① BY CITY FORCES  
FURNISH & INSTALL  
AHD OF CONTRACTOR  
STA 1+00.00  
PHASE 6  
CUT & PLUG:  
EX 6" AC WTR BK  
RECONNECT AFTER NEW MAIN  
HAS BEEN ACCEPTED
- ② BY CONTRACTOR  
FURNISH AND INSTALL  
STA. 1+10.00  
1-16" X 6" REDUCER
- ③ BY CONTRACTOR  
FURNISH AND INSTALL  
STA. 1+74.00  
1- 2" AIR VALVE
- ④ BY CITY FORCES  
AHD OF CONTRACTOR  
CUT-IN-TEE  
STA 4+19.57  
1- 16" X 16" TEE (F)  
3 - 16" B.V. (F, MJ) BK, AHD, LT  
40' - 10" WATER MAIN, LT  
10' - 6" WATER MAIN, BK  
1- 16"X10" REDUCER (MJ) LT
- ⑤ BY CITY FORCES  
FURNISH & INSTALL  
AHD OF CONTRACTOR  
STA 4+19.57  
PHASE 5  
CUT & PLUG:  
EX 10" PVC WTR +/- 40' LT  
RECONNECT AFTER NEW MAIN  
HAS BEEN ACCEPTED
- ⑥ BY CITY FORCES  
FURNISH & INSTALL  
AHD OF CONTRACTOR  
STA 4+32.57=  
STA 1+00.00  
PHASE 5 SEE SHT 15 NOTE ①  
PHASE 5  
CLOSE 8" G.V. RT  
OPEN VALVE AFTER NEW  
MAIN HAS BEEN ACCEPTED

REFERENCE:  
WATER: 20287-4-D  
SEWER: 00332-D  
STORM DRAIN:  
GAS: 16035-11865, 16035-11860  
ELECTRIC: 16035-11865, 16035-11860  
CABLE TV:  
TELEPHONE: A469\_BMF1992, A469\_BME1992  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: 1245  
THOMAS BROS.: 1289F7  
HGL: 390

RETIREMENTS:  
6" - AC - 333' - 1981  
1" SERVICE - 2 - COPPER - 1981

**CAUTION**  
6" HP GAS! CONTRACTOR TO  
VERIFY EXACT LOCATION AND MUST  
NOTIFY SDG&E THREE (3) WEEKS IN  
ADVANCE PRIOR TO EXCAVATION  
SDG&E STANDBY REQUIRED



C-15

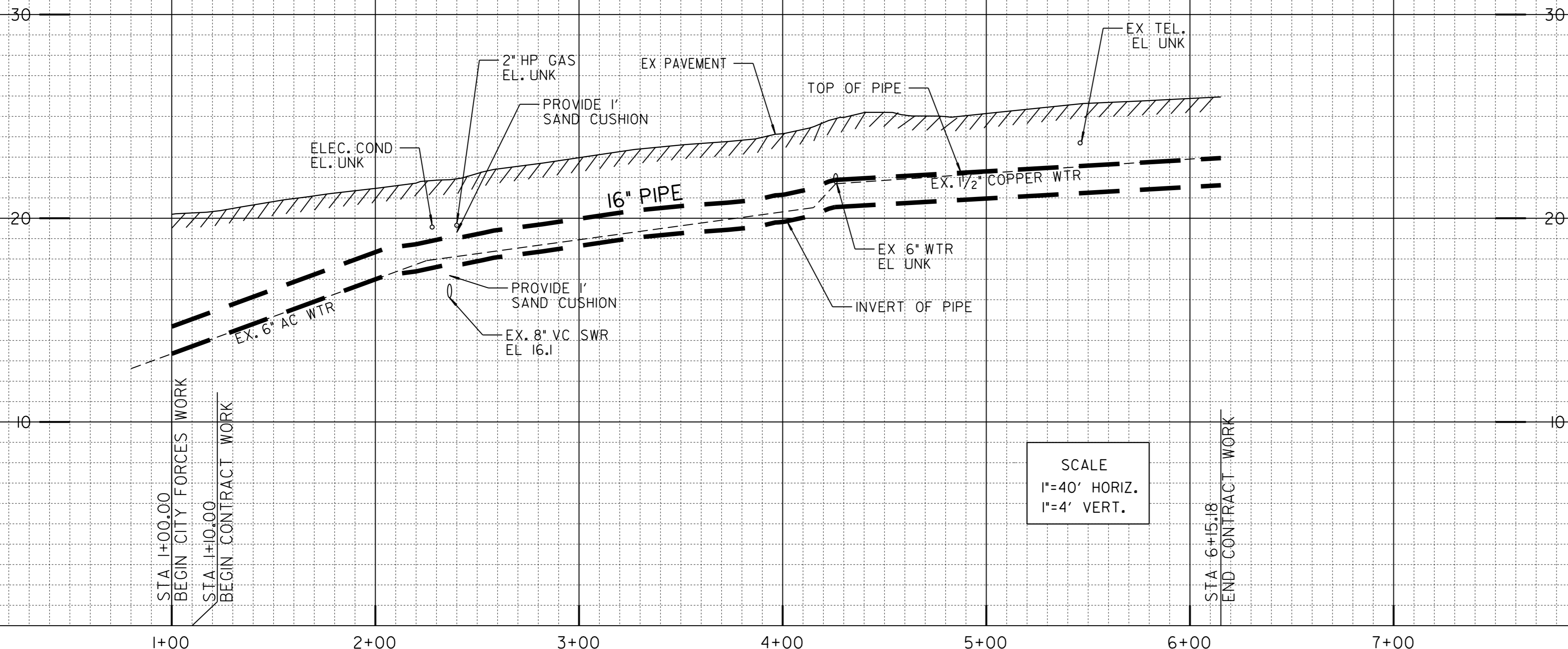
**AC WATER & SEWER GROUP 1052**  
THOR STREET  
MAIN STREET TO DALBERGIA STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 18 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: FOR CITY ENGINEER JANICE JARO PRINT DCE NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY AMY MILLS PROJECT MANAGER CHECKED BY JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED DATE 10/26/21
190-2731 CCS27 COORDINATE		1830-6291 CCS83 COORDINATE
CONTRACTOR INSPECTOR		NTP DATE NOC DATE

41338-18-D

THOR STREET

UNA ST



SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

ALIGNMENT: SHEET 19

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1830759.36	6294937.49	STRAIGHT	N 39°49'37" E	D = 283.01
PI	3+83.01	1830976.70	6295118.75	STRAIGHT	N 39°49'36" E	D = 42.89
PI	4+25.90	1831009.65	6295146.22	STRAIGHT	N 39°49'37" E	D = 189.28
POE	6+15.18	1831155.01	6295267.44			

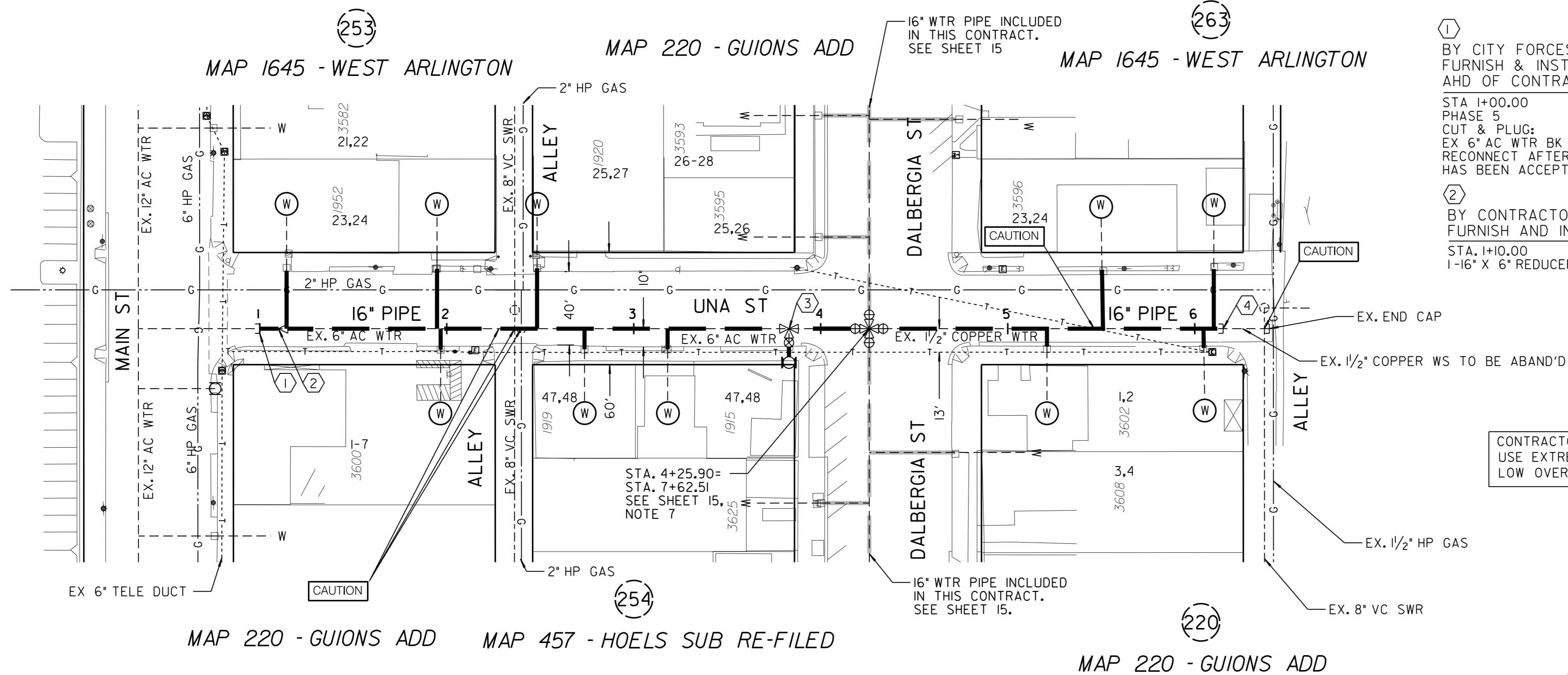
REFERENCE:

WATER: I174-15-D  
 SEWER: 27600-14-D, 23546-2-D  
 STORM DRAIN:  
 GAS: 16042-118650, 16042-118655  
 ELECTRIC: 16042-118650, 16042-118655  
 CABLE TV:  
 TELEPHONE: A469\_BMF1992  
 IMPROVEMENTS:  
 100' SCALE/FIELD BOOK: 1245  
 THOMAS BROS.: 1289G7  
 HGL: 390

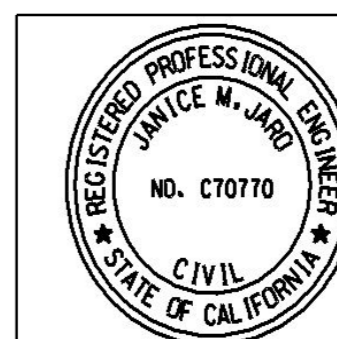
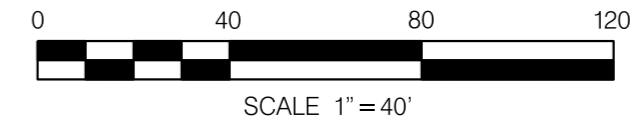
RETIREMENTS:

6" - AC - 326' - 1962  
 1/2" - COPPER - 214' - 1962  
 FH (2-PORT) - 1  
 1" SERVICE - 10 - COPPER - 1962

- ① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
 STA 1+00.00  
 PHASE 5  
 CUT & PLUG;  
 EX 6" AC WTR BK  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ② BY CONTRACTOR FURNISH AND INSTALL  
 STA. 1+10.00  
 1-16" X 6" REDUCER
- ③ BY CONTRACTOR FURNISH AND INSTALL  
 STA 3+83.01  
 1- 16" X 6" TEE (M.J, M.J, F)  
 1- 6" FH (3-PORT) ASSY AND MARKER
- ④ BY CONTRACTOR FURNISH AND INSTALL  
 STA. 6+15.18  
 1-16" END CAP



CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

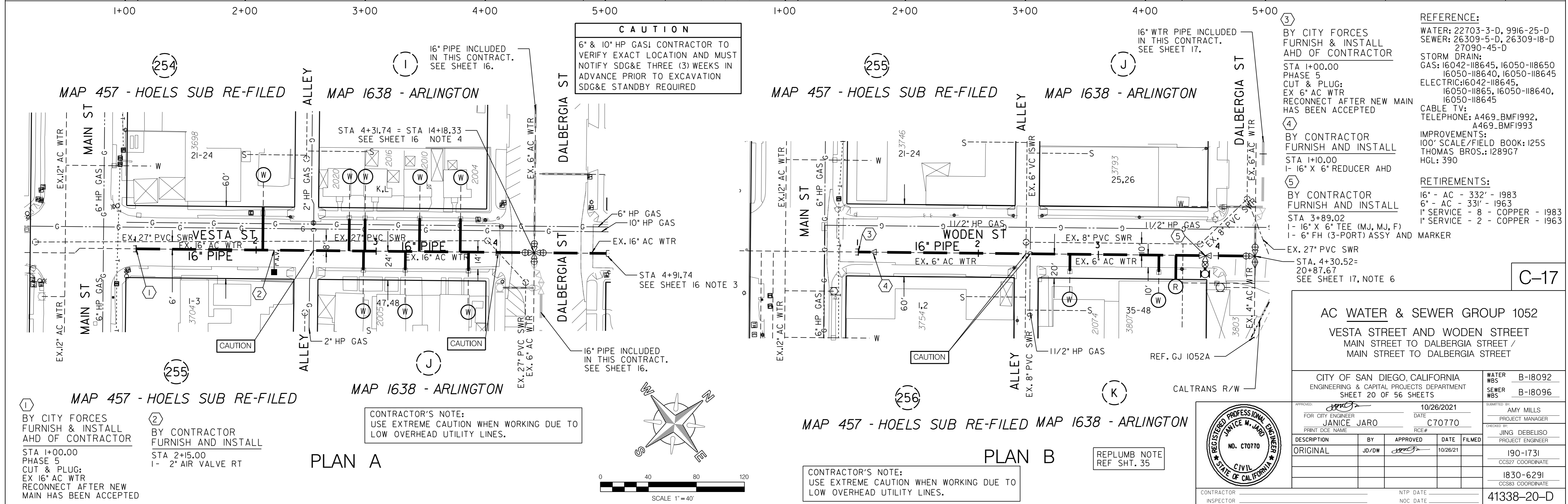
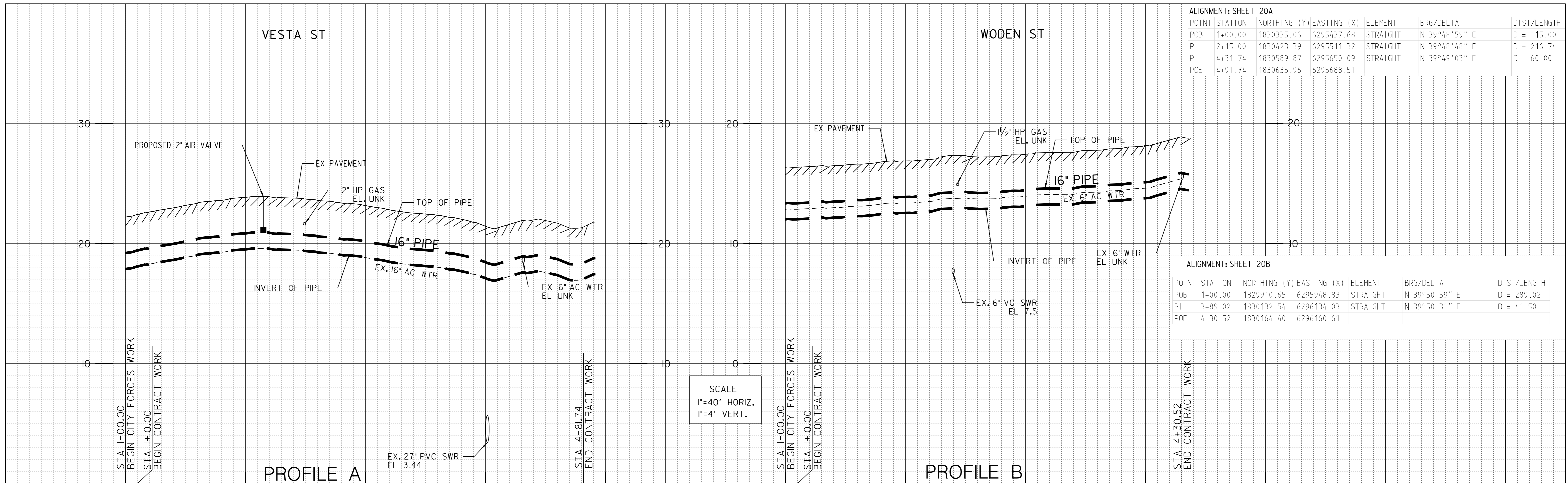


<b>AC WATER &amp; SEWER GROUP 1052</b>			
UNA STREET			
MAIN STREET TO ALLEY BLK 262			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 19 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096	
APPROVED: FOR CITY ENGINEER JANICE JARO PRINT DGE NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY AMY MILLS PROJECT MANAGER	ORDERED BY JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>	DATE FILMED 10/26/21
		190-1731 CCS27 COORDINATE	1830-6291 CCS83 COORDINATE
		41338-19-D	

UNA STREET

ALIGNMENT: SHEET 20A						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1830335.06	6295437.68	STRAIGHT	N 39°48'59" E	D = 115.00
PI	2+15.00	1830423.39	6295511.32	STRAIGHT	N 39°48'48" E	D = 216.74
PI	4+31.74	1830589.87	6295650.09	STRAIGHT	N 39°49'03" E	D = 60.00
POE	4+91.74	1830635.96	6295688.51			

ALIGNMENT: SHEET 20B						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1829910.65	6295948.83	STRAIGHT	N 39°50'59" E	D = 289.02
PI	3+89.02	1830132.54	6296134.03	STRAIGHT	N 39°50'31" E	D = 41.50
POE	4+30.52	1830164.40	6296160.61			



**CAUTION**  
 6" & 10" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

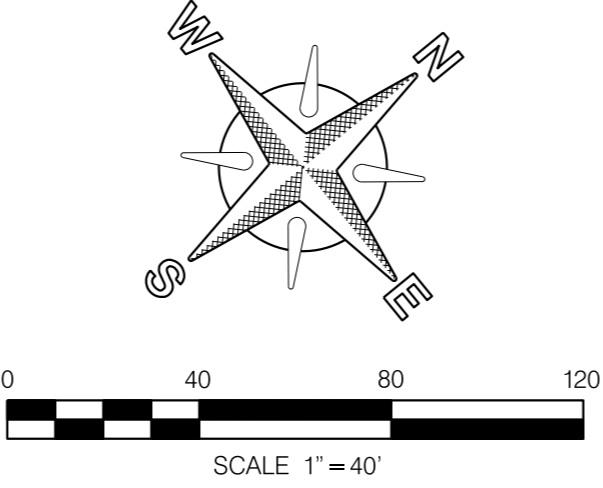
**REFERENCE:**  
 WATER: 22703-3-D, 9916-25-D  
 SEWER: 26309-5-D, 26309-18-D  
 27090-45-D  
**STORM DRAIN:**  
 GAS: 16042-118645, 16050-118650  
 16050-118640, 16050-118645  
 ELECTRIC: 16042-118645,  
 16050-11865, 16050-118640,  
 16050-118645  
**CABLE TV:**  
 TELEPHONE: A469\_BMF1992,  
 A469\_BMF1993  
**IMPROVEMENTS:**  
 100' SCALE/FIELD BOOK: I255  
 THOMAS BROS.: I289G7  
 HGL: 390  
**RETIREMENTS:**  
 16" - AC - 332' - 1983  
 6" - AC - 331' - 1963  
 1" SERVICE - 8 - COPPER - 1983  
 1" SERVICE - 2 - COPPER - 1963

① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
 STA 1+00.00  
 PHASE 5  
 CUT & PLUG:  
 EX 16" AC WTR  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

② BY CONTRACTOR FURNISH AND INSTALL  
 STA 2+15.00  
 1- 2" AIR VALVE RT

CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



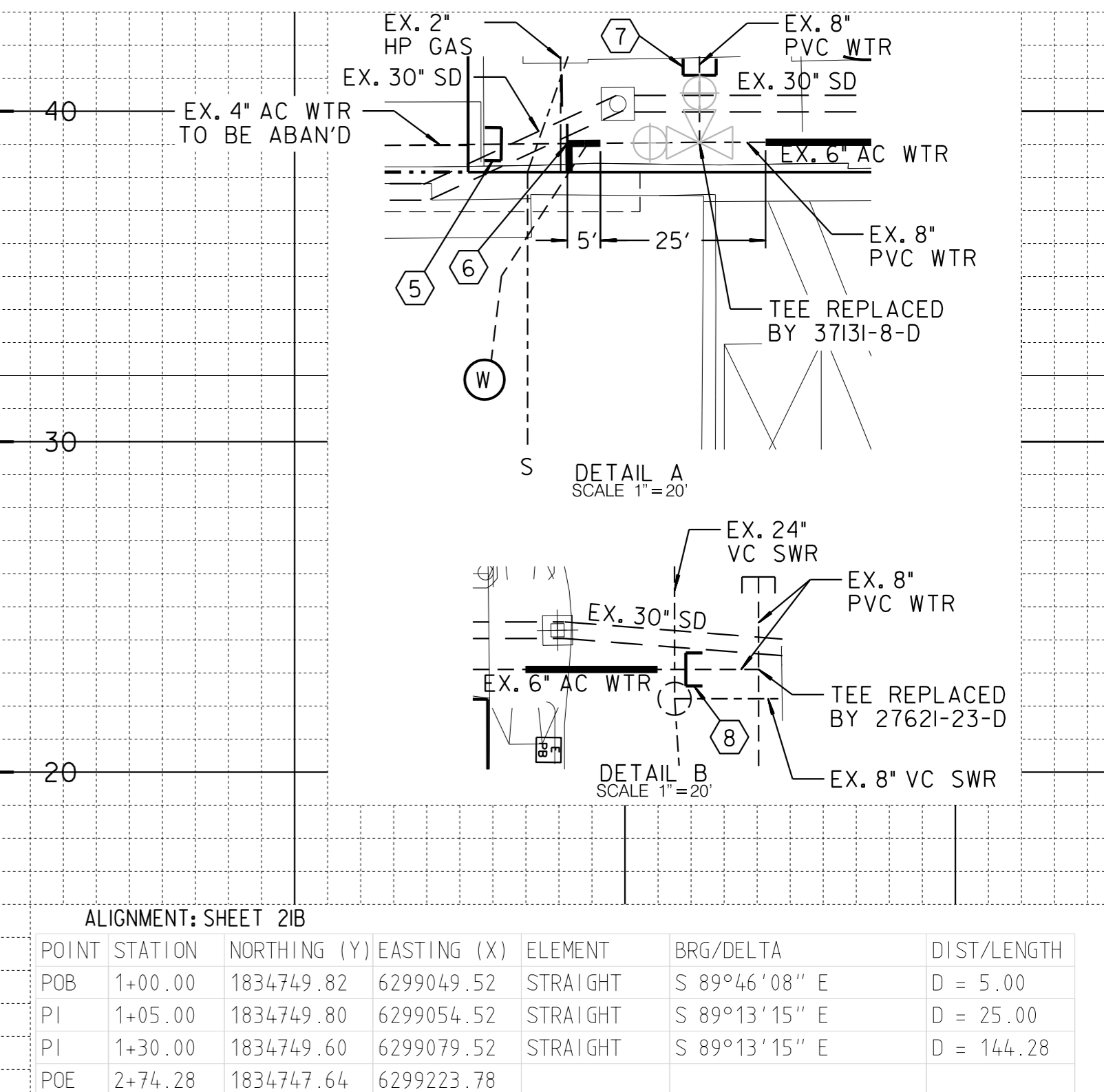
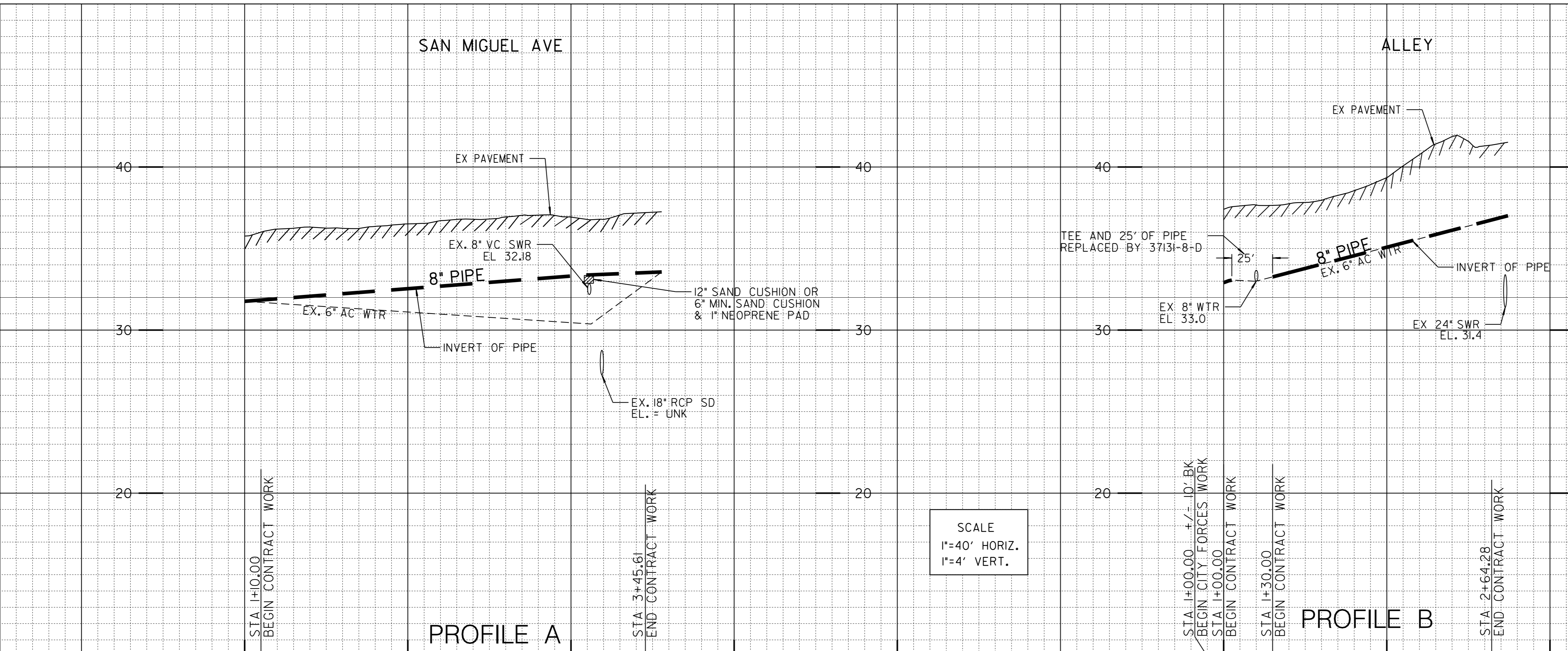
**AC WATER & SEWER GROUP 1052**  
 VESTA STREET AND WODEN STREET  
 MAIN STREET TO DALBERGIA STREET /  
 MAIN STREET TO DALBERGIA STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 20 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: [Signature] FOR CITY ENGINEER JANICE JARO PRINT DGE NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED [Signature]
		DATE 10/26/21
		FILED
		190-1731 CCS27 COORDINATE
		1830-6291 CCS83 COORDINATE
CONTRACTOR INSPECTOR	NTP DATE	41338-20-D

VESTA STREET AND WODEN STREET



ALIGNMENT: SHEET 21A						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1834759.99	6298753.63	STRAIGHT	N 15°37'32" W	D = 97.62
PI	1+97.62	1834854.00	6298727.33	STRAIGHT	N 1°40'05" W	D = 89.69
PI	2+87.32	1834943.66	6298724.72	STRAIGHT	N 6°09'44" E	D = 68.30
POE	3+55.61	1835011.56	6298732.06			

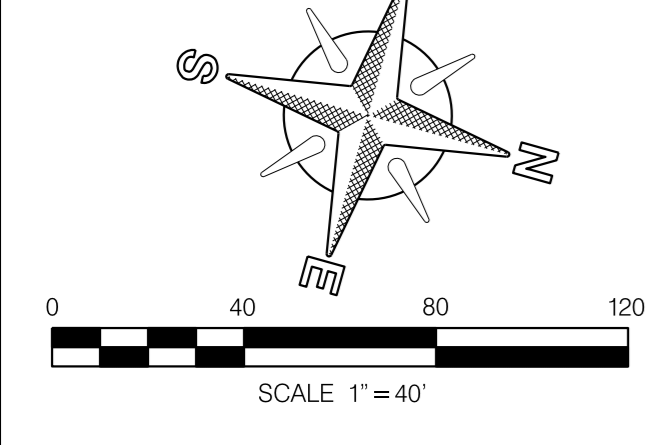
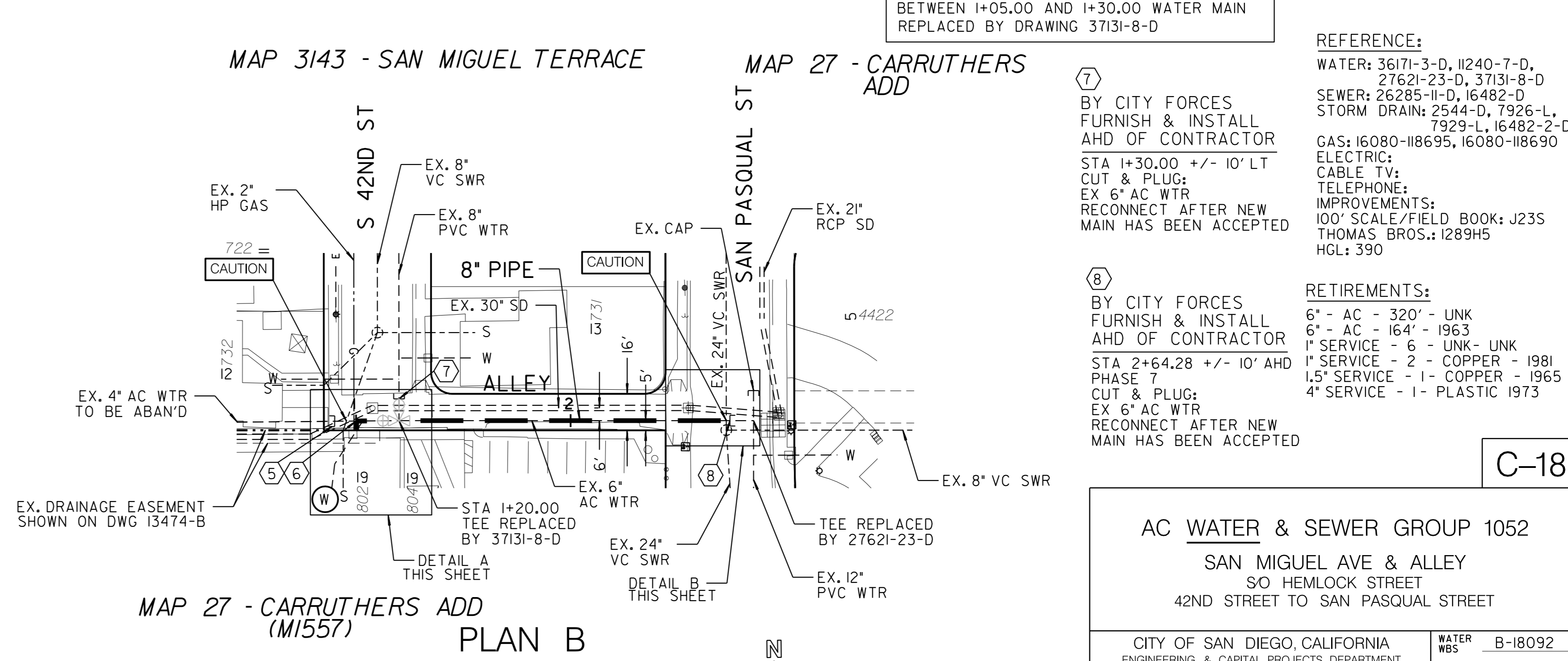
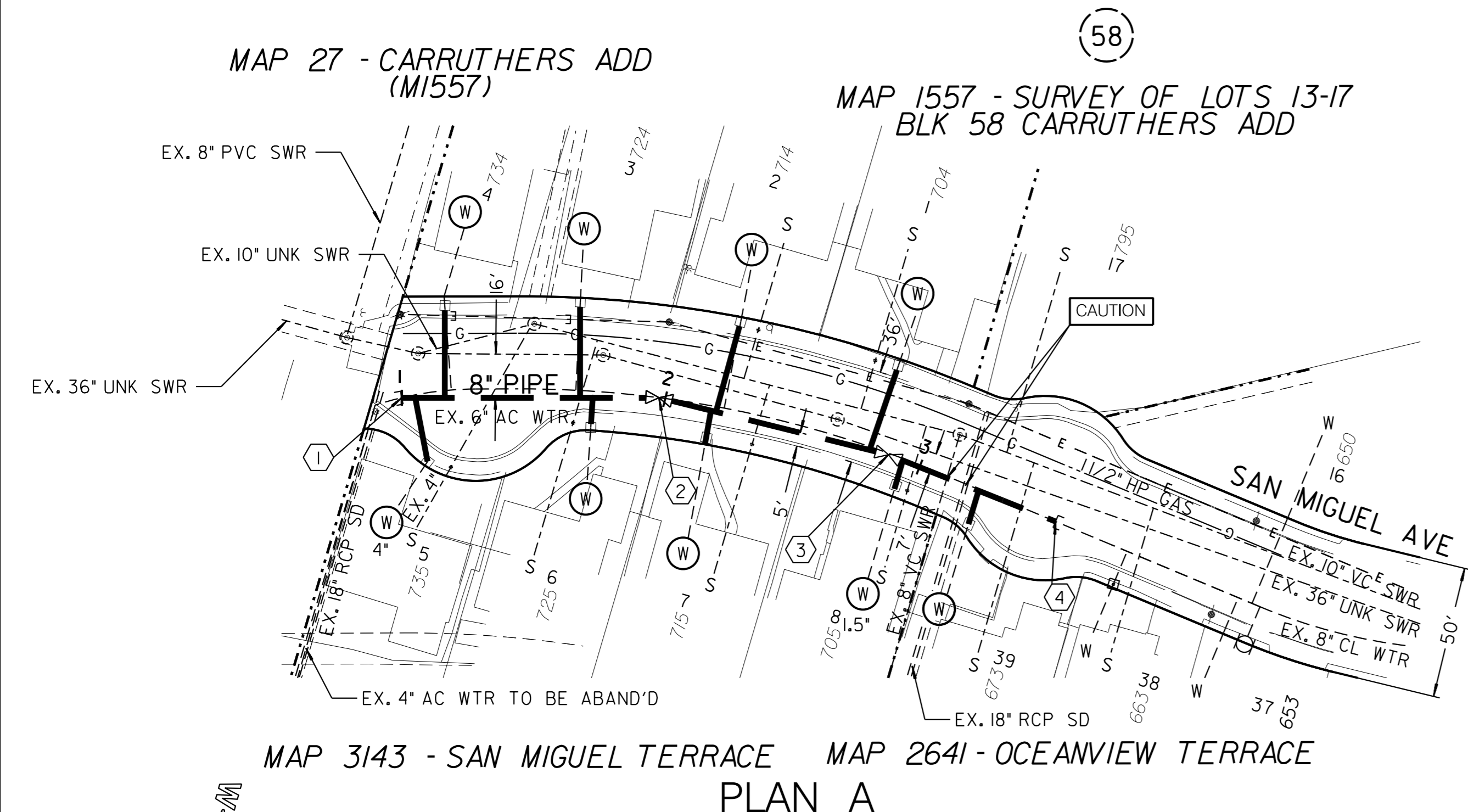


ALIGNMENT: SHEET 21B						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1834749.82	6299049.52	STRAIGHT	S 89°46'08" E	D = 5.00
PI	1+05.00	1834749.80	6299054.52	STRAIGHT	S 89°13'15" E	D = 25.00
PI	1+30.00	1834749.60	6299079.52	STRAIGHT	S 89°13'15" E	D = 144.28
POE	2+74.28	1834747.64	6299223.78			

**CONTRACTOR'S NOTE:**  
 BETWEEN 1+05.00 AND 1+30.00 WATER MAIN REPLACED BY DRAWING 37131-8-D

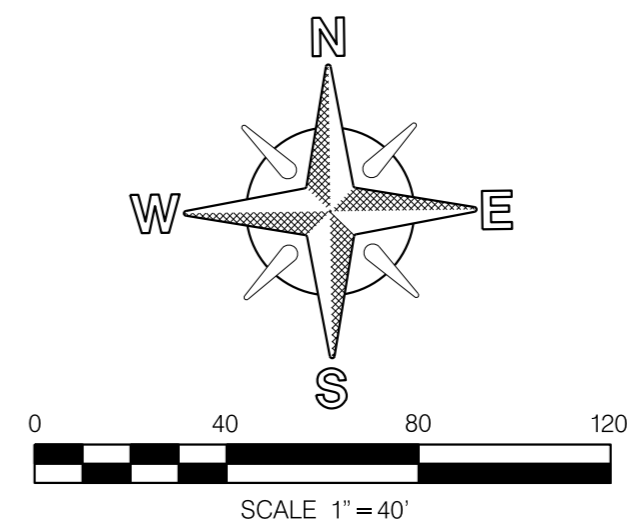
**REFERENCE:**  
 WATER: 36171-3-D, 11240-7-D, 27621-23-D, 37131-8-D  
 SEWER: 26285-II-D, 16482-D  
 STORM DRAIN: 2544-D, 7926-L, 7929-L, 16482-2-D  
 GAS: 16080-II8695, 16080-II8690  
 ELECTRIC: 100' SCALE/FIELD BOOK: J235  
 THOMAS BROS.: 1289H5  
 HGL: 390

**RETIREMENTS:**  
 6" - AC - 320' - UNK  
 6" - AC - 164' - 1963  
 1" SERVICE - 6 - UNK - UNK  
 1" SERVICE - 2 - COPPER - 1981  
 1.5" SERVICE - 1 - COPPER - 1965  
 4" SERVICE - 1 - PLASTIC 1973



- ① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
 STA 1+00.00  
 PHASE 6  
 CUT & PLUG PERMANENTLY:  
 EX 6" AC WTR
- ② BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+97.62  
 I- 11.25 DEGREE BEND
- ③ BY CONTRACTOR FURNISH AND INSTALL  
 STA 2+87.32  
 I- 11.25 DEGREE BEND
- ④ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
 STA 3+55.61  
 PHASE 6  
 CUT & PLUG:  
 EX 8" CL WTR  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

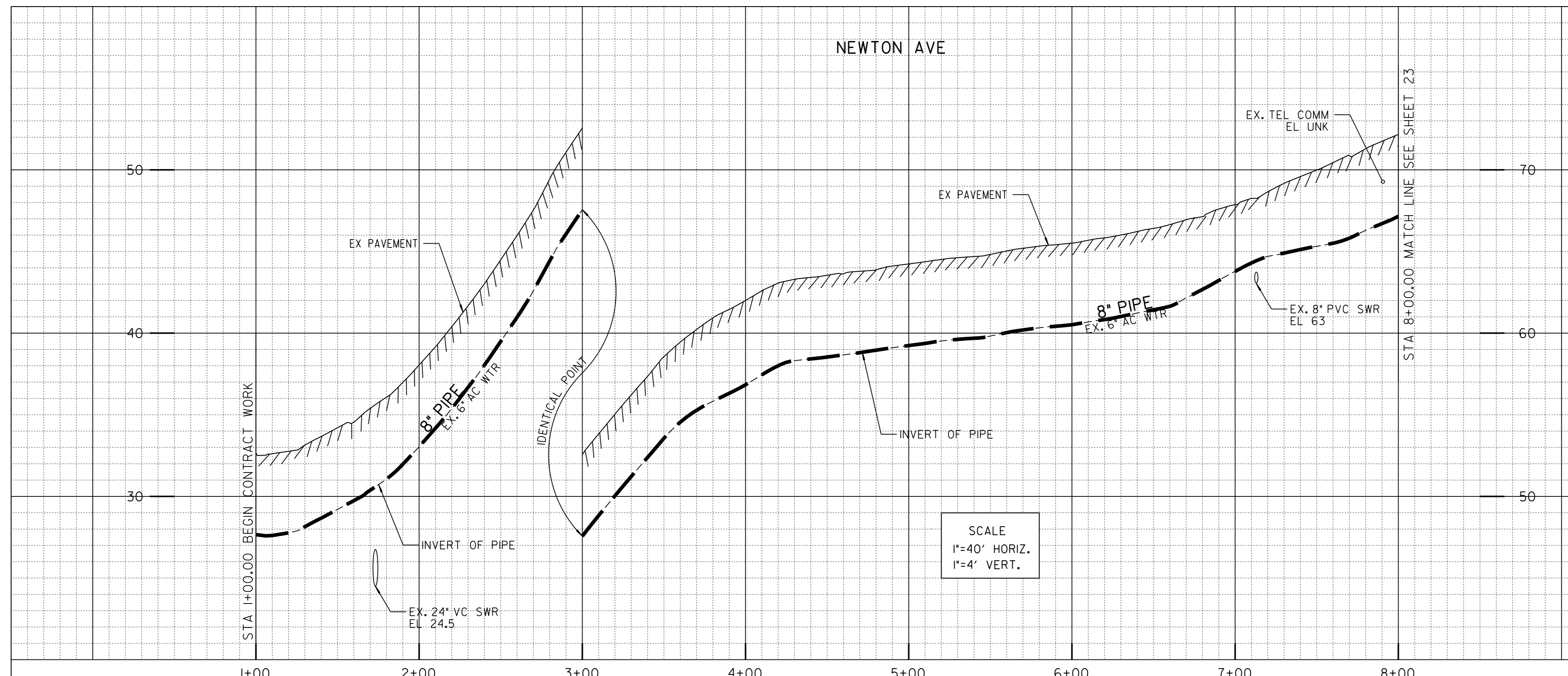
- ⑤ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
 STA 1+00.00 +/- 10' BK  
 PHASE 7  
 CUT & PLUG PERMANENTLY:  
 EX 4" AC WTR
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+00.00  
 5' - 8" WATER MAIN AHD



**AC WATER & SEWER GROUP 1052**  
 SAN MIGUEL AVE & ALLEY  
 SO HEMLOCK STREET  
 42ND STREET TO SAN PASQUAL STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 21 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT DGE NAME	DATE 10/26/2021 DATE C70770 RCE#	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
		DATE 10/26/21
		FILED
		194-1737
		CCS27 COORDINATE
		1834-6297
		CCS83 COORDINATE
CONTRACTOR INSPECTOR	NTP DATE	41338-21-D
	NOC DATE	

SAN MIGUEL AVE & ALLEY



ALIGNMENT: SHEET 22-24A

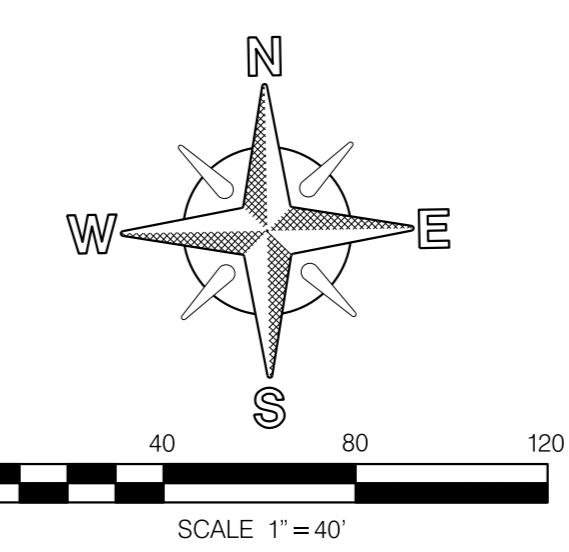
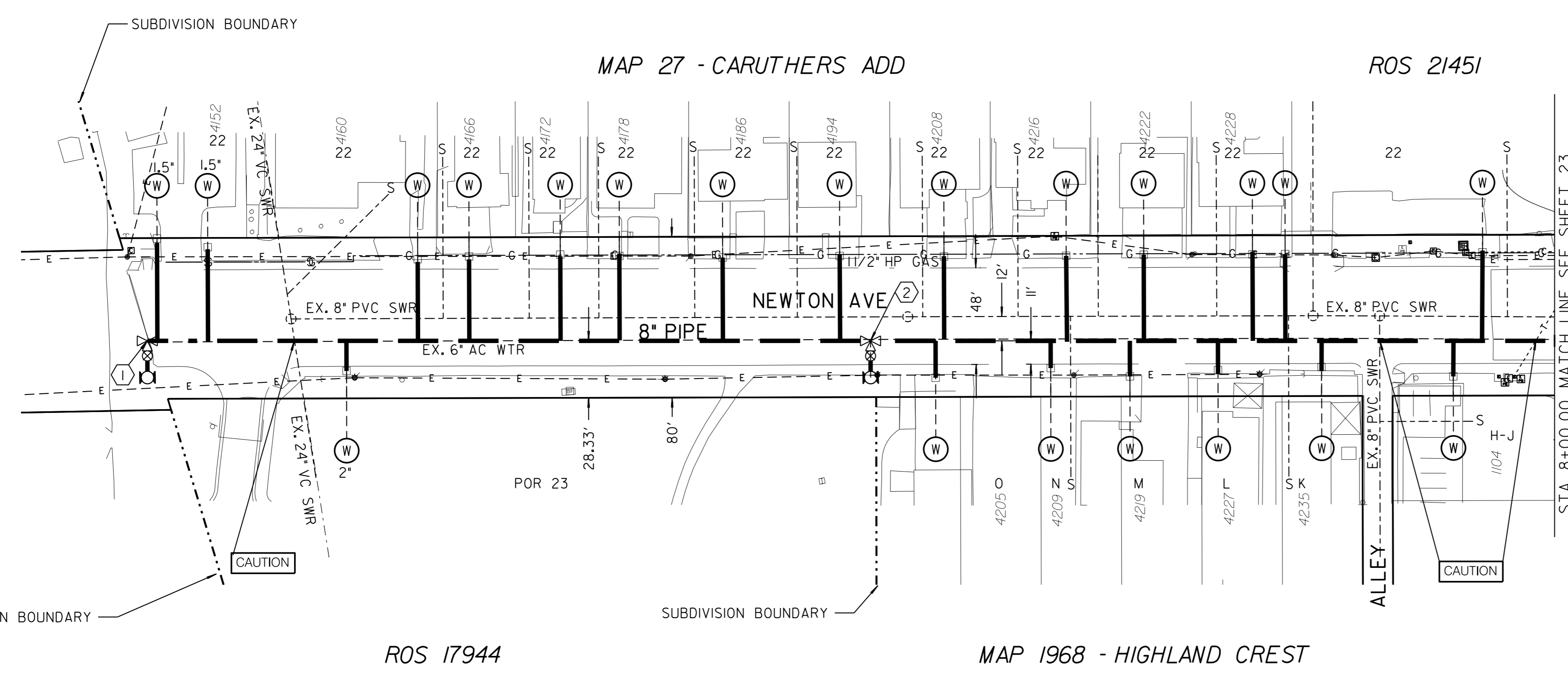
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1833744.31	6298667.36	STRAIGHT	S 88°57'00" E	D = 359.73
PI	4+59.73	1833737.72	6299027.03	STRAIGHT	S 88°57'00" E	D = 410.67
PI	8+70.40	1833730.20	6299437.64	STRAIGHT	S 88°57'00" E	D = 124.55
PI	9+94.96	1833727.91	6299562.17	STRAIGHT	S 88°53'54" E	D = 15.15
PI	10+10.11	1833727.62	6299577.31	STRAIGHT	S 88°58'08" E	D = 16.58
PI	10+26.68	1833727.33	6299593.89	STRAIGHT	S 0°38'52" W	D = 31.76
PI	10+58.45	1833695.56	6299593.53	STRAIGHT	S 21°26'08" E	D = 36.21
PI	10+94.65	1833661.86	6299606.76	STRAIGHT	S 43°31'08" E	D = 60.22
PI	11+54.87	1833618.20	6299648.23	STRAIGHT	S 65°36'08" E	D = 52.32
PI	12+07.19	1833596.58	6299695.88	STRAIGHT	S 89°07'23" E	D = 89.87
PI	12+97.07	1833595.21	6299785.74	STRAIGHT	S 89°08'06" E	D = 95.40
PI	13+92.46	1833593.77	6299881.13	STRAIGHT	S 89°07'48" E	D = 233.02
PI	16+25.48	1833590.23	6300114.12			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

REFERENCE:  
WATER: 05868-W  
SEWER: 27766-17-D, 27766-29-D  
STORM DRAIN:  
GAS: 16080-118680  
ELECTRIC: 16080-118680  
CABLE TV: COX FACILITY MAP 1  
TELEPHONE: A469\_BMD1996  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: J245  
THOMAS BROS.: I289H6  
HGL: 390

RETIREMENTS:  
6" - AC - 695' - 1953  
FH (2-PORT) - 1  
3/4" SERVICE - 2 - COPPER - 1952  
3/4" SERVICE - 1 - COPPER - 1959  
3/4" SERVICE - 2 - WROUGHT IRON - 1944  
1" SERVICE - 12 - COPPER - 1953  
1" SERVICE - 1 - COPPER OR PLASTIC - 2000  
1.5" SERVICE - 1 - COPPER - 1953  
1.5" SERVICE - 1 - COPPER - 1981  
2" SERVICE - 1 - COPPER - 1953

- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00.00  
1 - 8" X 6" TEE (MJ, MJ, F)  
1 - 6" FH ASSY AND MARKER
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 4+59.73  
1 - 8" X 6" TEE (MJ, MJ, F)  
1 - 6" FH ASSY AND MARKER

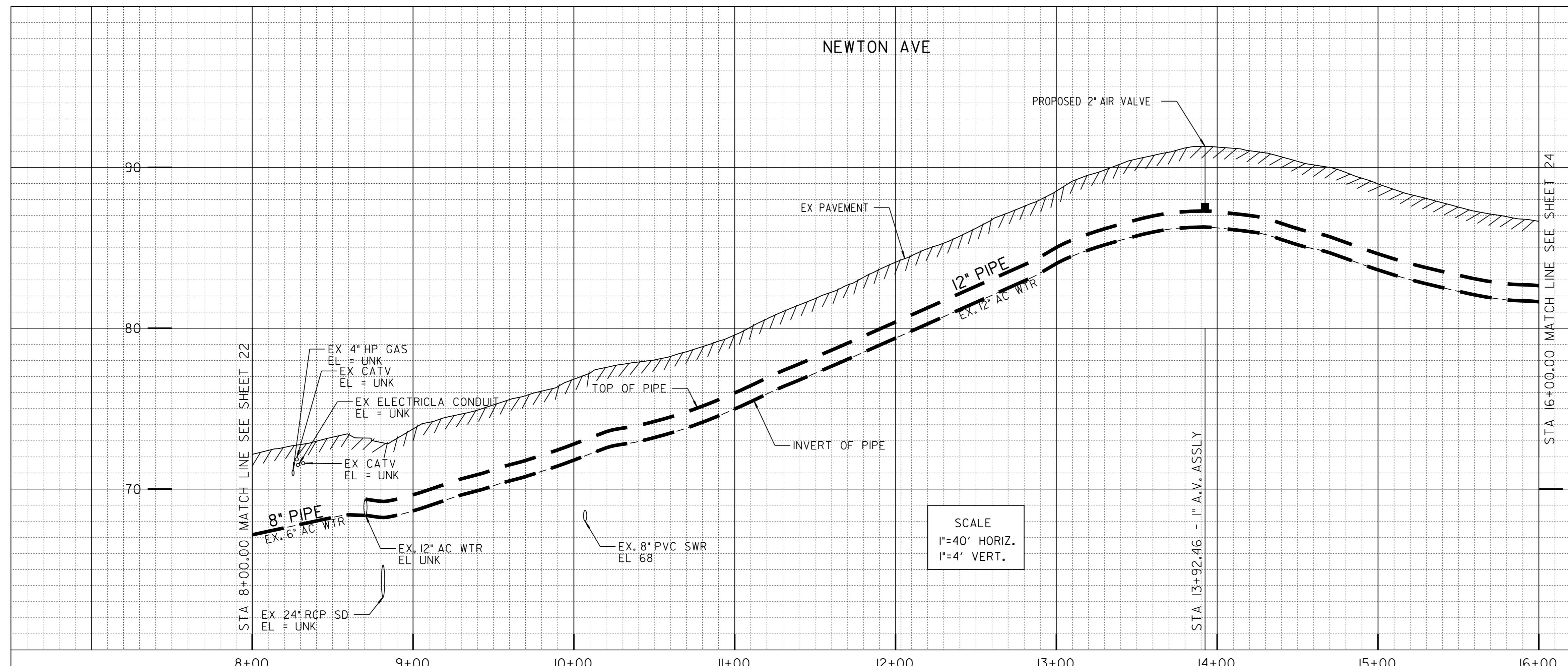


**AC WATER & SEWER GROUP 1052**  
NEWTON AVE  
EO S 41ST STREET TO WO S 43RD STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 22 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER DATE: 10/26/2021	PROJECT MANAGER AMY MILLS	
PRINTED NAME: JANICE JARO RCE# C70770	PROJECT ENGINEER JING DEBELISO	
DESCRIPTION: ORIGINAL	DATE: 10/26/21	FILED: 190-1737
		CCS27 COORDINATE
		1830-6297
		CCS83 COORDINATE
CONTRACTOR: _____ INSPECTOR: _____		NTP DATE: _____ NOC DATE: _____

41338-22-D

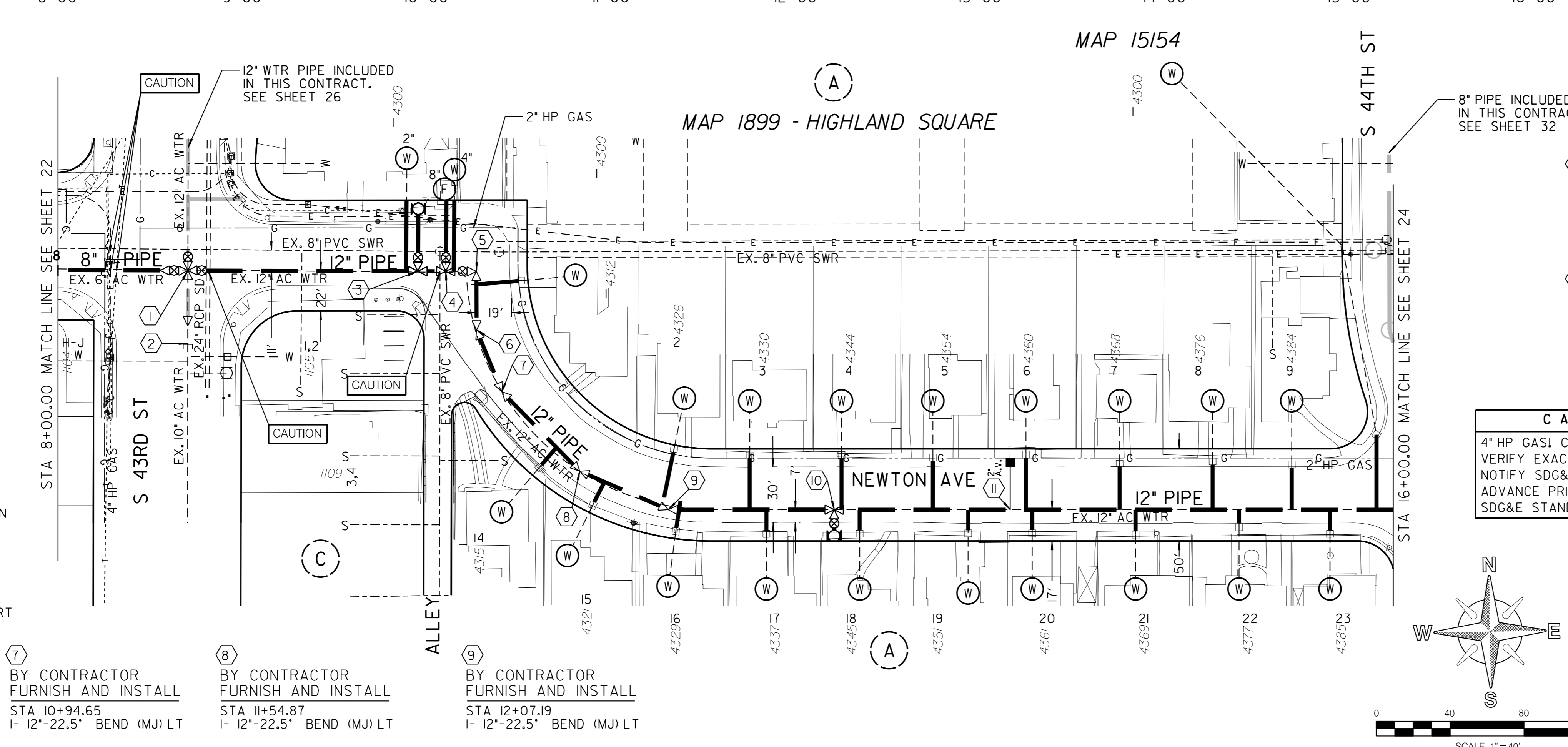
NEWTON AVE



ALIGNMENT: SHEET 22-24A

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1833744.31	6298667.36	STRAIGHT	S 88°57'00" E	D = 359.73
PI	4+59.73	1833737.72	6299027.03	STRAIGHT	S 88°57'00" E	D = 410.67
PI	8+70.40	1833730.20	6299437.64	STRAIGHT	S 88°57'00" E	D = 124.55
PI	9+94.96	1833727.91	6299562.17	STRAIGHT	S 88°53'54" E	D = 15.15
PI	10+10.11	1833727.62	6299577.31	STRAIGHT	S 88°58'08" E	D = 16.58
PI	10+26.68	1833727.33	6299593.89	STRAIGHT	S 0°38'52" W	D = 31.76
PI	10+58.45	1833695.56	6299593.53	STRAIGHT	S 21°26'08" E	D = 36.21
PI	10+94.65	1833661.86	6299606.76	STRAIGHT	S 43°31'08" E	D = 60.22
PI	11+54.87	1833618.20	6299648.23	STRAIGHT	S 65°36'08" E	D = 52.32
PI	12+07.19	1833596.58	6299695.88	STRAIGHT	S 89°07'23" E	D = 89.87
PI	12+97.07	1833595.21	6299785.74	STRAIGHT	S 89°08'06" E	D = 95.40
PI	13+92.46	1833593.77	6299881.13	STRAIGHT	S 89°07'48" E	D = 233.02
PI	16+25.48	1833590.23	6300114.12			

- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 8+70.40=  
STA 1+40.00  
SEE SHT 26, PLAN B  
1- 12" CROSS (F, F, F, MJ)  
3- 12" G.V. (F, MJ) BK, AHD, LT  
1- 12" X 8" REDUCER BK  
1- 12" X 10" REDUCER 40' RT
- ② BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 8+70.40 40' +/- RT PHASE 8  
CUT & PLUG:  
EX 10" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 9+94.96  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 10+10.11  
1- 12" X 8" TEE (MJ, MJ, F)  
1- 8" FIRE SERVICE CONNECTION
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 10+26.68  
1- 12"- 90 DEGREE BEND (MJ) RT  
1- 12" G.V. (F, MJ) BK
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 10+58.45  
1- 12"- 22.5" BEND (MJ) LT
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 10+94.65  
1- 12"-22.5" BEND (MJ) LT
- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 11+54.87  
1- 12"-22.5" BEND (MJ) LT
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 12+07.19  
1- 12"-22.5" BEND (MJ) LT



- ⑩ BY CONTRACTOR FURNISH AND INSTALL  
STA 12+97.07  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ⑪ BY CONTRACTOR FURNISH AND INSTALL  
STA 13+92.46  
1- 2" AIR VALVE LT

REFERENCE:  
WATER: I1884-7-D, I1884-9-D, 33369-3-D  
SEWER: 33275-21-D, 33275-22-D, 2766-18-D  
STORM DRAIN: 27621-100-D  
GAS: I6087-I18680  
ELECTRIC: I6087-I18680  
CABLE TV: COX FACILITY MAP I  
TELEPHONE: A469-BMD1996  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: J24S  
THOMAS BROS.: I289J6  
HGL: 390

RETIREMENTS:  
12" - AC- 800' - 1965  
FH (5-PORT) - 1  
1" SERVICE - 19 - COPPER - 1965  
1" SERVICE - 1- COPPER - 2004  
2" SERVICE - 1- PVC - 2005  
4" SERVICE - 1- PVC - 2005  
8" FIRE SERVICE - 1- PVC - 2005

CAUTION  
4" HP GAS CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

AC WATER & SEWER GROUP 1052  
NEWTON AVE  
S 43RD STREET TO S 44TH STREET

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 23 OF 56 SHEETS

WATER WBS B-18092  
SEWER WBS B-18096

APPROVED: *[Signature]* DATE 10/26/2021  
FOR CITY ENGINEER JANICE JARO  
PRINT DGE NAME RCE# C70770

DESIGNED BY: AMY MILLS  
PROJECT MANAGER  
CHECKED BY: JING DEBELISO  
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW	<i>[Signature]</i>	10/26/21	

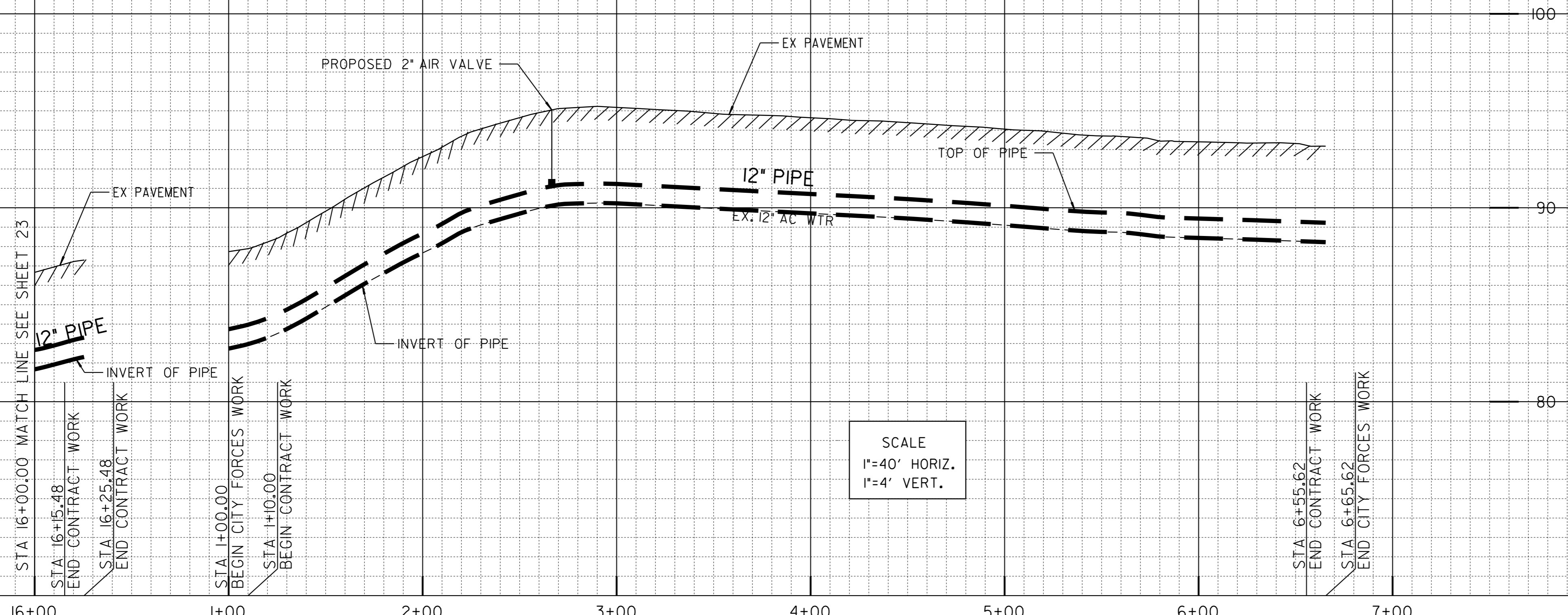
190-1737  
CCS27 COORDINATE  
1830-6297  
CCS83 COORDINATE  
41338-23-D

CONTRACTOR INSPECTOR \_\_\_\_\_ NTP DATE \_\_\_\_\_  
INSPECTOR \_\_\_\_\_ NOC DATE \_\_\_\_\_

NEWTON AVE

ALIGNMENT: SHEET 22-24A

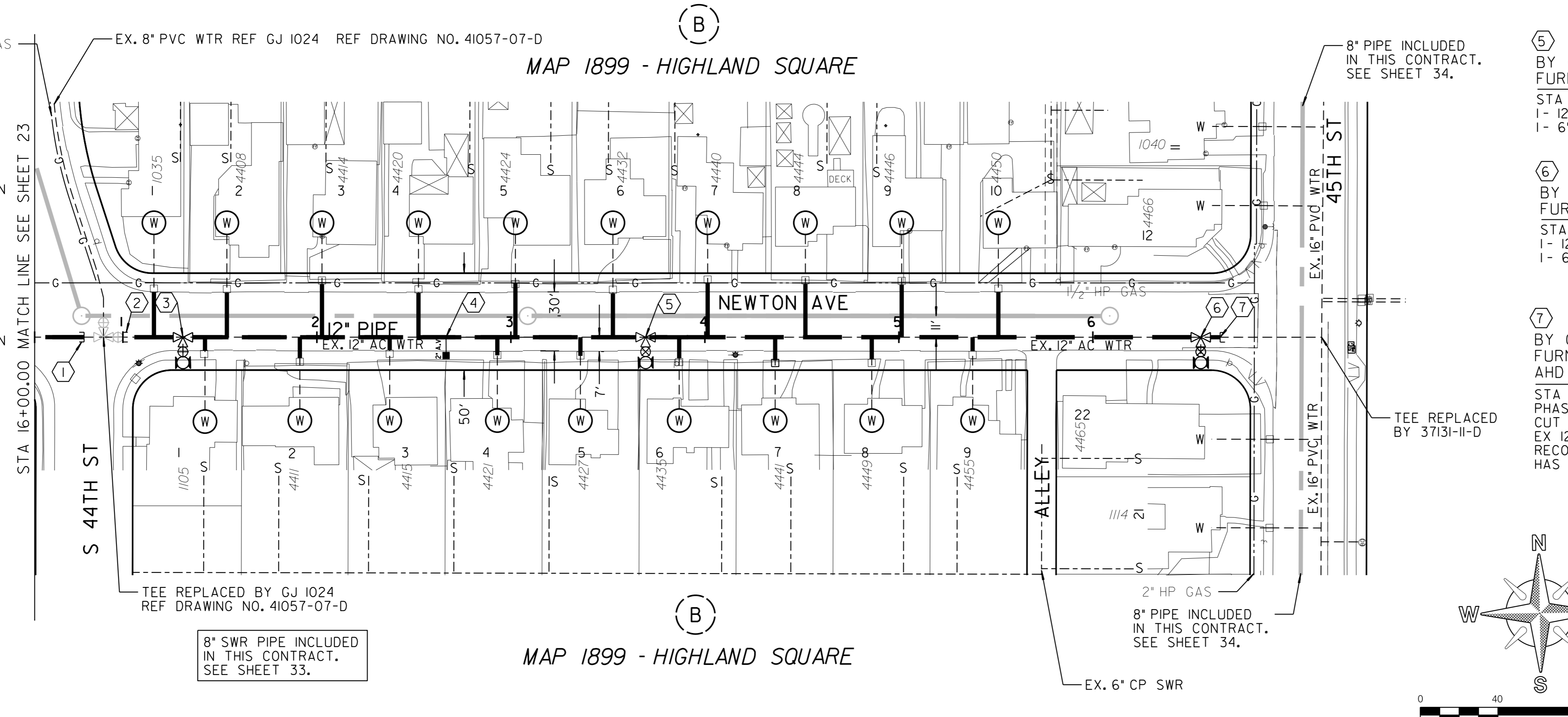
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1833744.31	6298667.36	STRAIGHT	S 88°57'00" E	D = 359.73
PI	4+59.73	1833737.72	6299027.03	STRAIGHT	S 88°57'00" E	D = 410.67
PI	8+70.40	1833730.20	6299437.64	STRAIGHT	S 88°57'00" E	D = 124.55
PI	9+94.96	1833727.91	6299562.17	STRAIGHT	S 88°53'54" E	D = 15.15
PI	10+10.11	1833727.62	6299577.31	STRAIGHT	S 88°58'08" E	D = 16.58
PI	10+26.68	1833727.33	6299593.89	STRAIGHT	S 0°38'52" W	D = 31.76
PI	10+58.45	1833695.56	6299593.53	STRAIGHT	S 21°26'08" E	D = 36.21
PI	10+94.65	1833661.86	6299606.76	STRAIGHT	S 43°31'08" E	D = 60.22
PI	11+54.87	1833618.20	6299648.23	STRAIGHT	S 65°36'08" E	D = 52.32
PI	12+07.19	1833596.58	6299695.88	STRAIGHT	S 89°07'23" E	D = 89.87
PI	12+97.07	1833595.21	6299785.74	STRAIGHT	S 89°08'06" E	D = 95.40
PI	13+92.46	1833593.77	6299881.13	STRAIGHT	S 89°07'48" E	D = 233.02
PI	16+25.48	1833590.23	6300114.12			



ALIGNMENT: SHEET 24B

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1833589.92	6300134.12	STRAIGHT	S 89°02'17" E	D = 30.95
PI	1+30.95	1833589.40	6300165.06	STRAIGHT	S 89°07'23" E	D = 135.63
PI	2+66.58	1833587.33	6300300.68	STRAIGHT	S 89°08'16" E	D = 102.87
PI	3+69.45	1833585.78	6300403.53	STRAIGHT	S 89°07'08" E	D = 286.18
PI	6+55.62	1833581.38	6300689.67	STRAIGHT	S 89°07'08" E	D = 10.00
POE	6+65.62	1833581.22	6300699.67			

SCALE  
1"=40' HORIZ.  
1"=4' VERT.

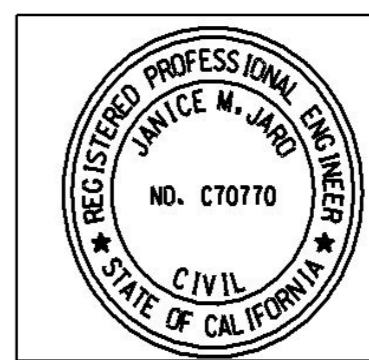
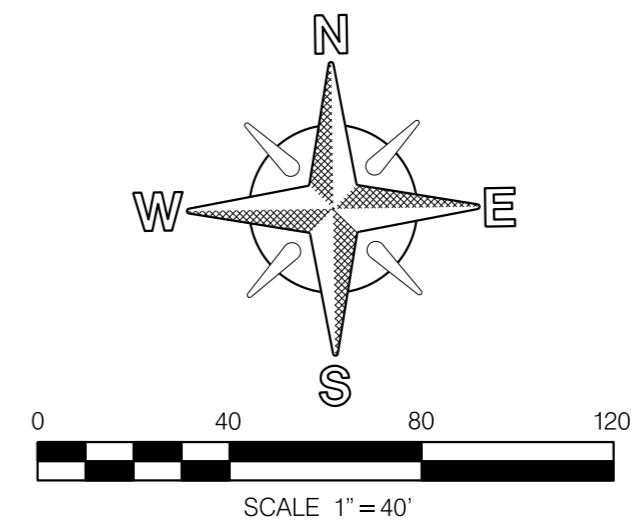


- ① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 16+25.48  
PHASE 8  
CUT & PLUG: EX 12" AC WTR RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ② BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 1+00.00  
PHASE 9  
CUT & PLUG: EX 12" AC WTR RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+30.95  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+66.58  
1- 2" AIR VALVE

- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+69.45  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 6+55.62  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ⑦ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 6+65.62  
PHASE 9  
CUT & PLUG:  
EX 12" AC WTR RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

REFERENCE:  
WATER: I1884-9-D, 37131-II-D  
SEWER: 27766-26-D  
STORM DRAIN:  
GAS: I6095-II8680  
ELECTRIC: I6095-II8680  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: J245  
THOMAS BROS.: I289J6  
HGL: 390

RETIREMENTS:  
12" - AC - 654' - 1965  
FH (2-PORT) - 2  
1" SERVICE - 19 - COPPER - 1965

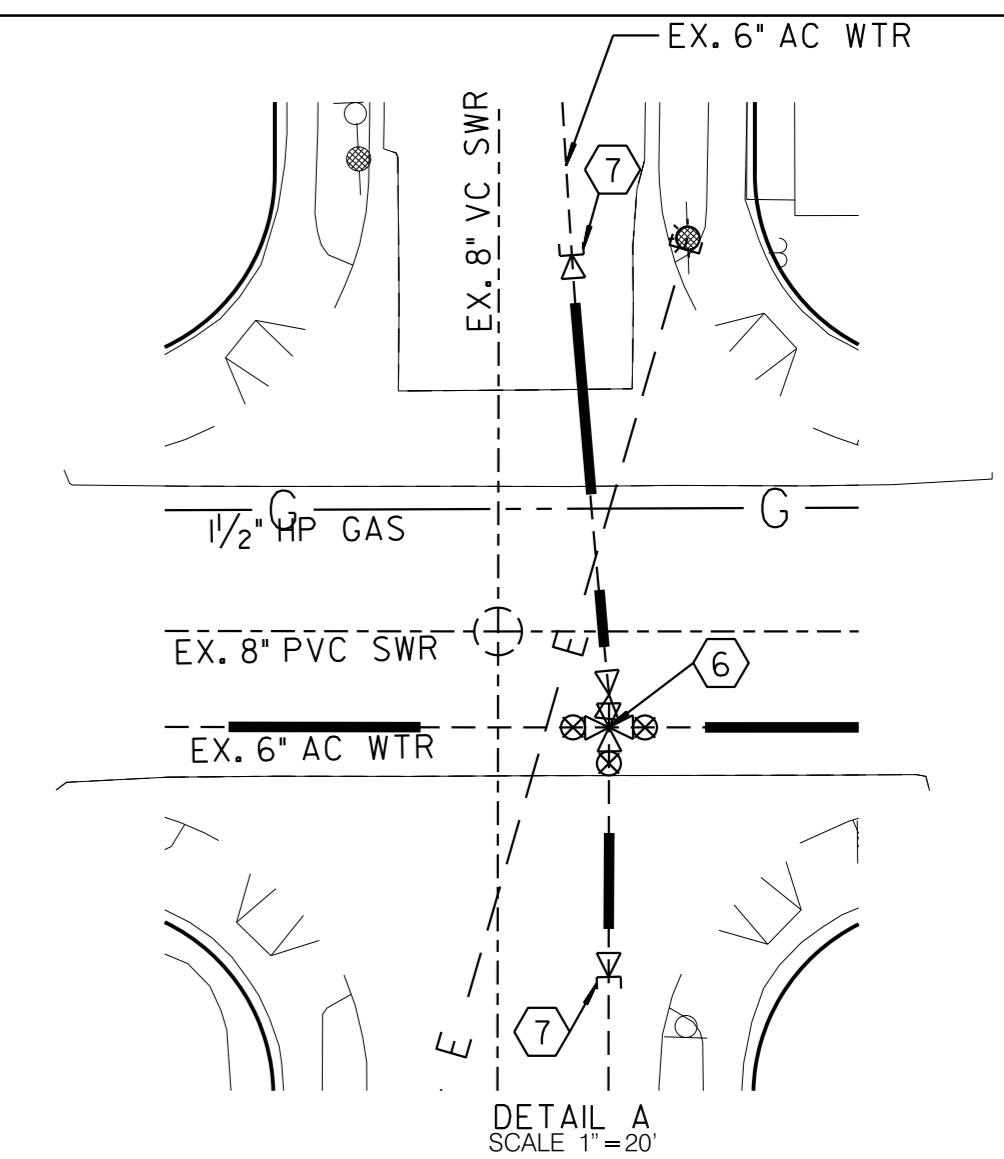
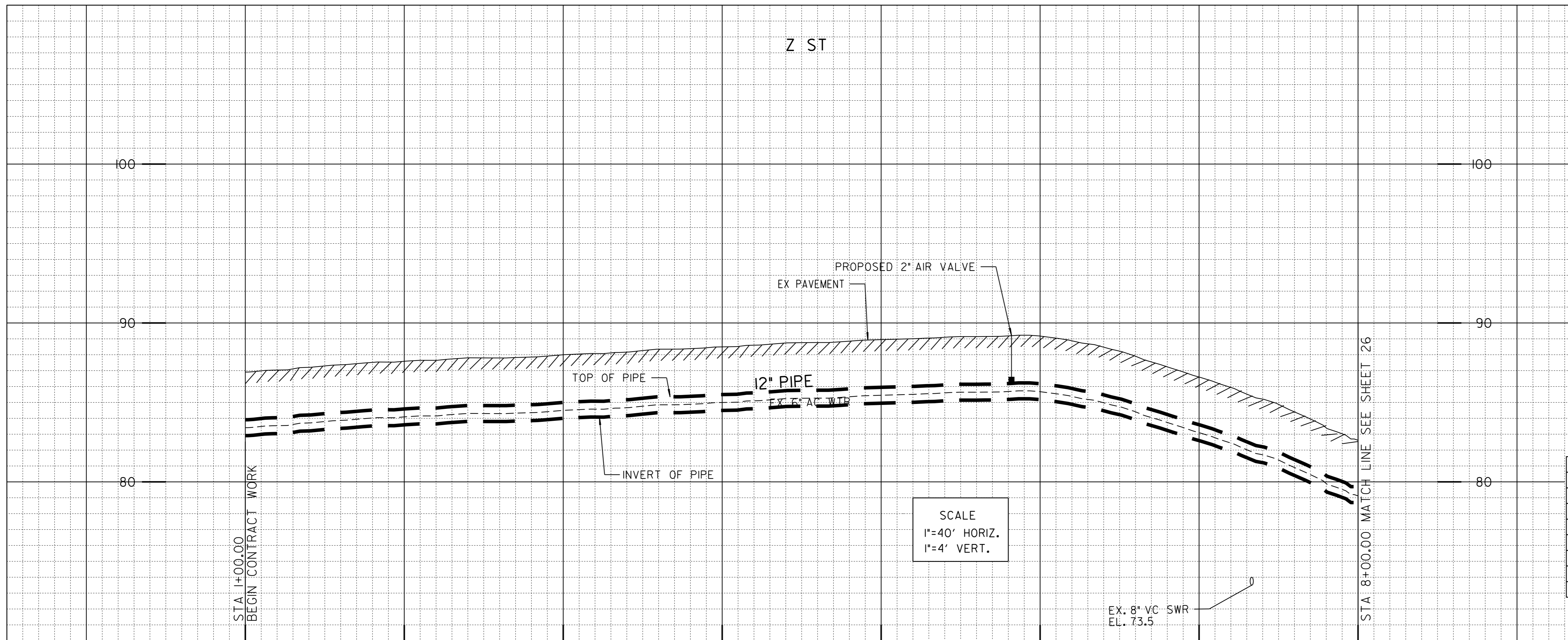


**AC WATER & SEWER GROUP 1052**  
NEWTON AVE  
S 44TH STREET TO S 45TH STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 24 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT DCE NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
		DATE 10/26/21
		FILMED
		190-1737
		CCS27 COORDINATE
		1830-6297
		CCS83 COORDINATE
		41338-24-D

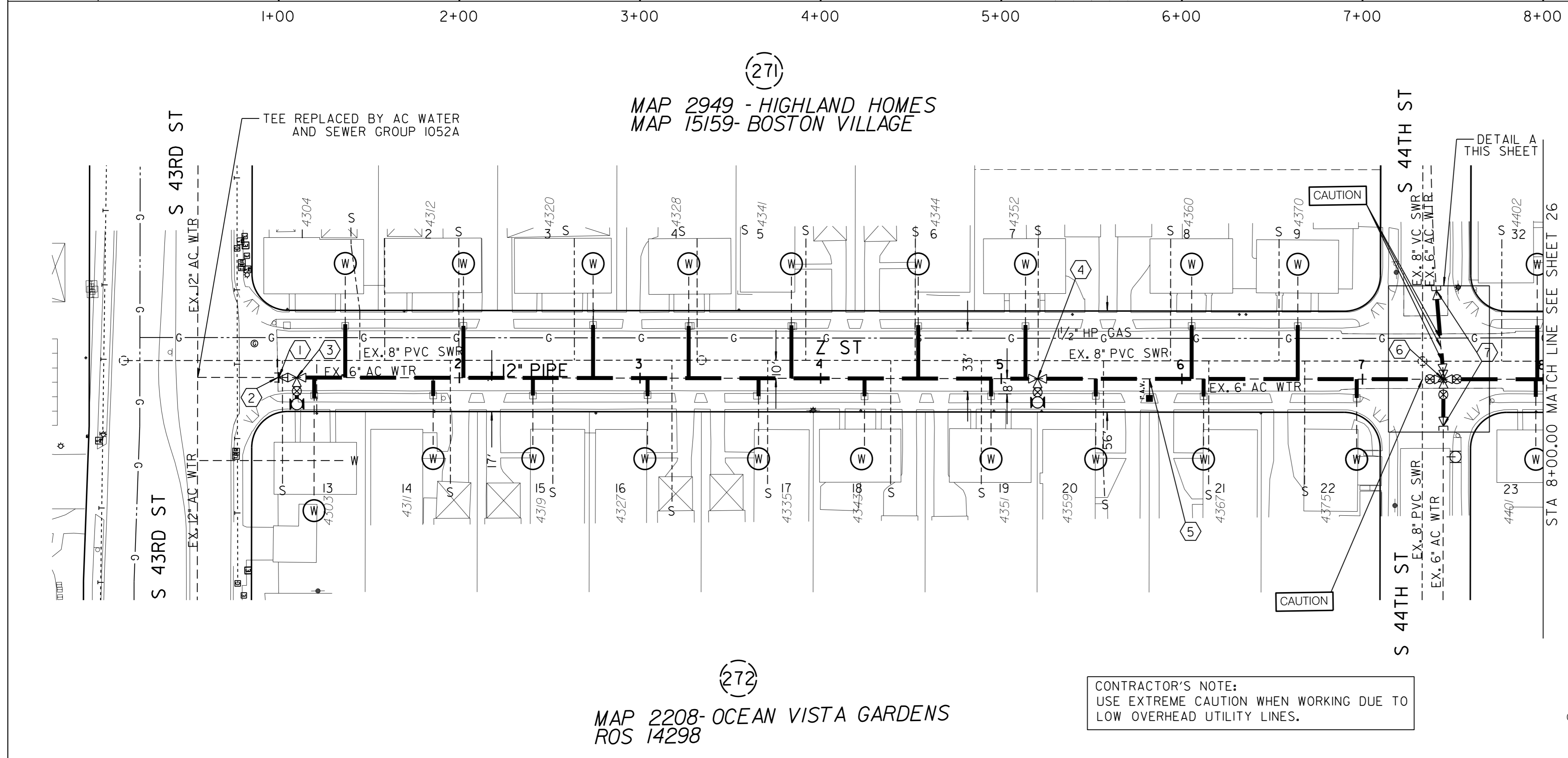
CONTRACTOR INSPECTOR \_\_\_\_\_ NTP DATE \_\_\_\_\_  
NOC DATE \_\_\_\_\_

NEWTON AVE



ALIGNMENT: SHT 25 AND 26A

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832861.93	6299466.73	STRAIGHT	S 89°01'33" E	D = 10.00
PI	1+10.00	1832861.76	6299476.73	STRAIGHT	S 89°02'01" E	D = 410.13
PI	5+20.13	1832854.84	6299886.80	STRAIGHT	S 89°02'17" E	D = 61.87
PI	5+82.00	1832853.80	6299948.67	STRAIGHT	S 89°02'44" E	D = 162.74
PI	7+44.74	1832851.09	6300111.38	STRAIGHT	S 89°07'50" E	D = 206.25
PI	9+50.99	1832847.96	6300317.61	STRAIGHT	S 89°10'02" E	D = 362.19
PI	13+13.18	1832842.70	6300679.76	STRAIGHT	S 89°10'41" E	D = 20.32
POE	13+33.50	1832842.41	6300700.08			



- ① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 1+00.00  
PHASE 10  
CUT & PLUG:  
EX 6" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00.00  
1- 12" X 6" REDUCER
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+10.00  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+20.13  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+82.00  
1- 2" AIR VALVE
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 7+44.74  
1- 12" CROSS (F)  
3 - 12" G.V (F, MJ) BK, AHD, RT  
1- 11.25 DEGREE BEND LT  
2- 12" X 6" REDUCER LT, RT  
50' - 12" WATER MAIN, LT  
20' - 12" WATER MAIN, RT
- ⑦ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 7+40.79 +/- 49.20' LT  
STA 7+44.74 +/- 20' RT  
PHASE 10  
CUT & PLUG: EX 6" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

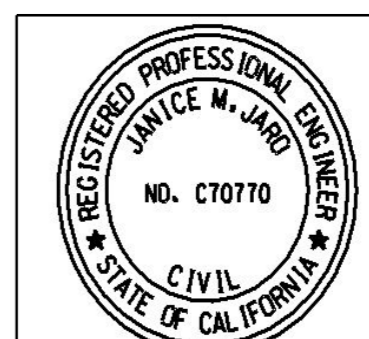
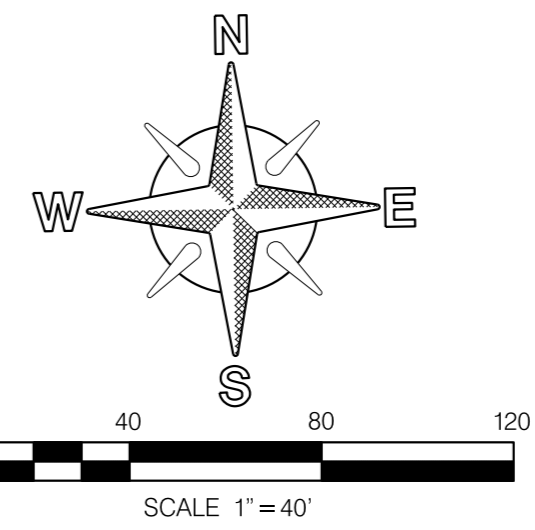
REFERENCE:  
WATER: 09990-L, 20287-3-D  
SEWER: 32260-12-D, 32260-15-D, 09990-L  
STORM DRAIN:  
GAS: 16087-118670  
ELECTRIC: 16087-118670  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: J245  
THOMAS BROS.: 1289H6  
HGL: 390

RETIREMENTS:  
6" - AC - 700' - 1954  
FH (2-PORT) - 1  
3/4" SERVICE - 15 - COPPER - 1954  
1" SERVICE - 5 - COPPER - 1954  
1" SERVICE - 1 - COPPER 1953

MAP 2949 - HIGHLAND HOMES  
MAP 15159 - BOSTON VILLAGE

MAP 2208 - OCEAN VISTA GARDENS  
ROS 14298

CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO  
LOW OVERHEAD UTILITY LINES.



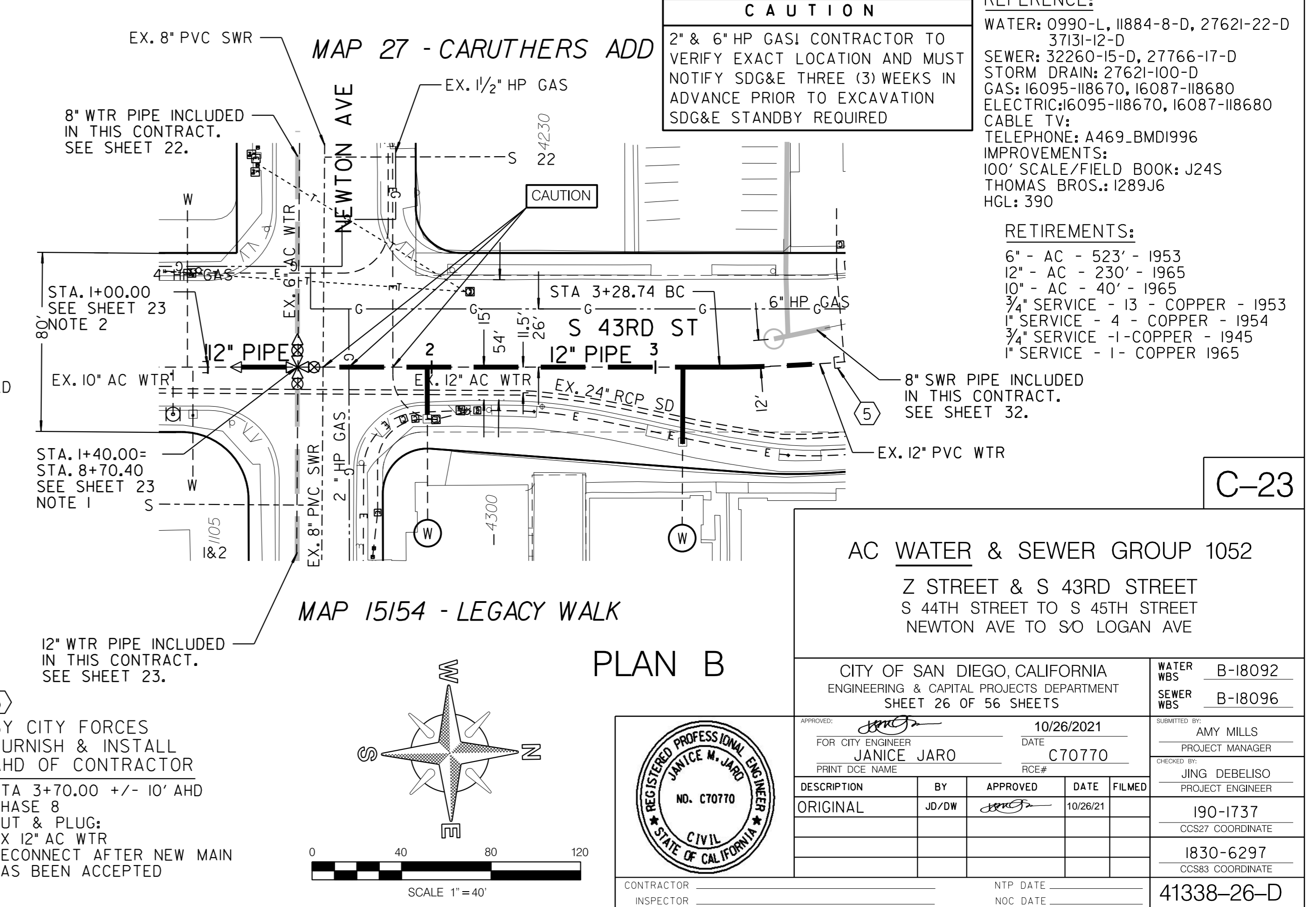
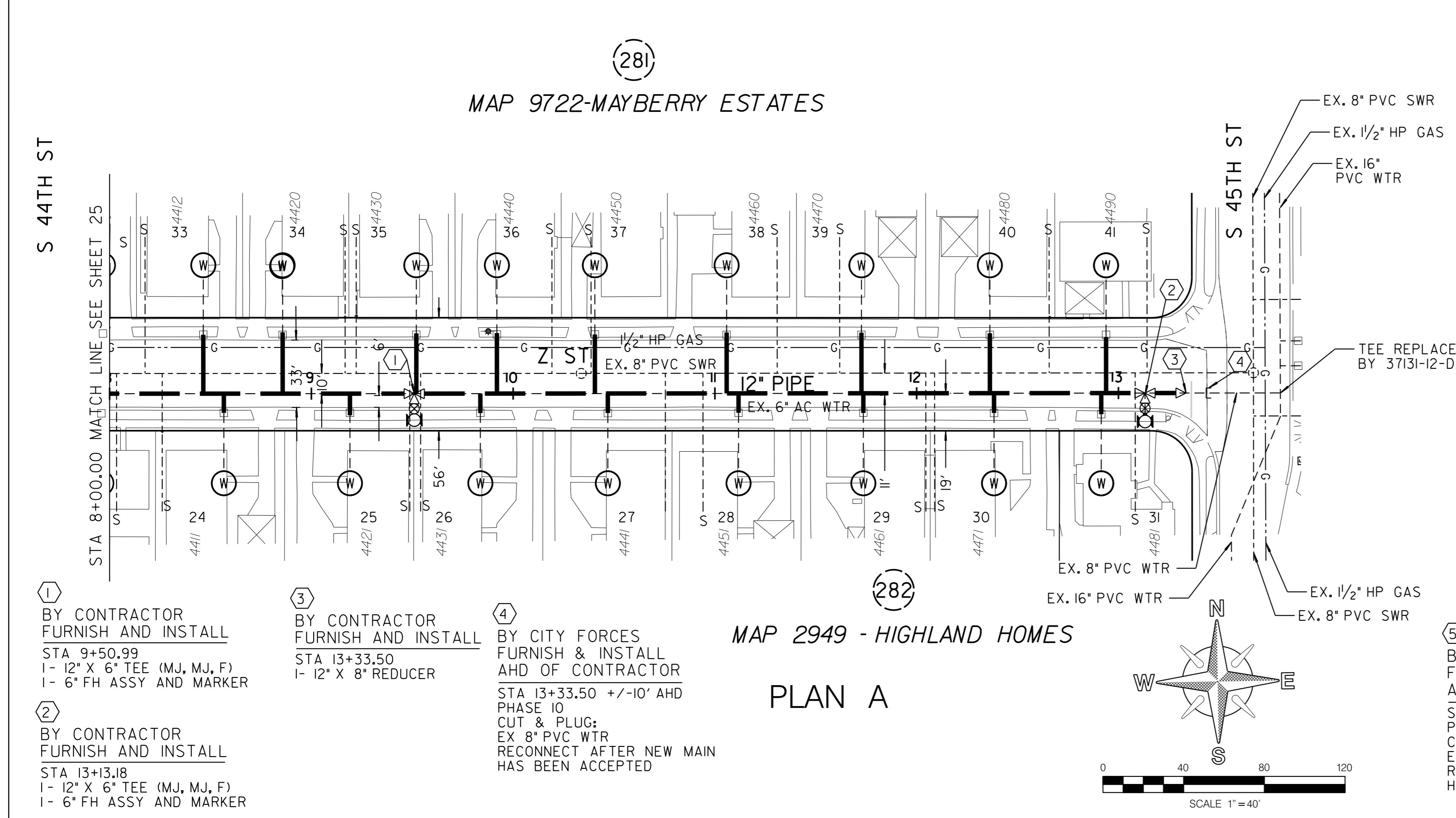
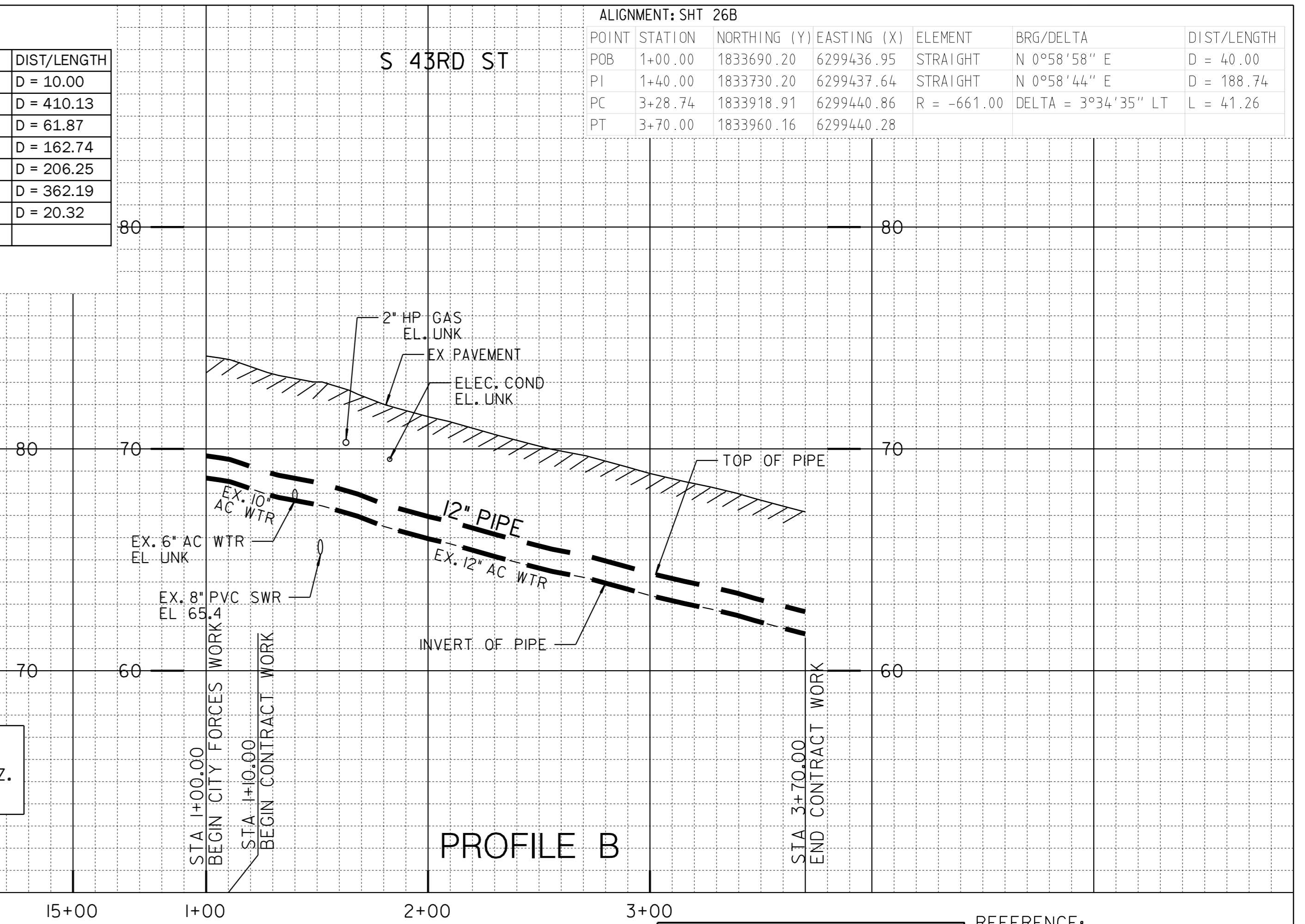
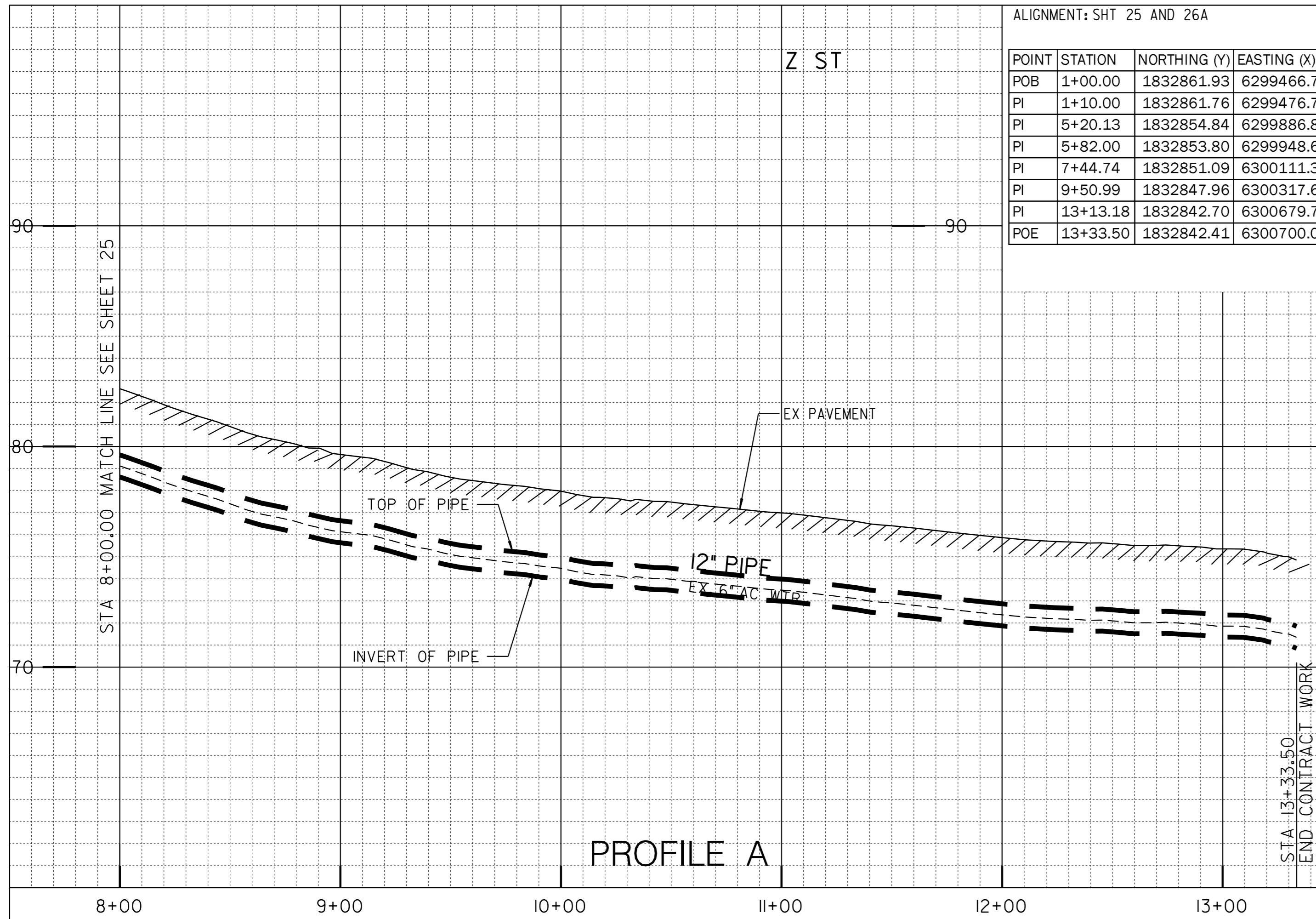
<b>AC WATER &amp; SEWER GROUP 1052</b>	
Z STREET	
S 43RD STREET TO S 44TH STREET	
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 25 OF 56 SHEETS	
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER DATE: 10/26/2021 PRINT NAME: JANICE JARO RCE#	WATER WBS: B-18092 SEWER WBS: B-18096
DESIGNED BY: JING DEBELISO PROJECT ENGINEER	PROJECT MANAGER: AMY MILLS
DESCRIPTION: ORIGINAL	DATE: 10/26/21
BY: <i>[Signature]</i>	APPROVED: <i>[Signature]</i>
190-1737 CCS27 COORDINATE 1830-6297 CCS83 COORDINATE	
41338-25-D	

ALIGNMENT: SHT 25 AND 26A

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832861.93	6299466.73	STRAIGHT	S 89°01'33" E	D = 10.00
PI	1+10.00	1832861.76	6299476.73	STRAIGHT	S 89°02'01" E	D = 410.13
PI	5+20.13	1832854.84	6299886.80	STRAIGHT	S 89°02'17" E	D = 61.87
PI	5+82.00	1832853.80	6299948.67	STRAIGHT	S 89°02'44" E	D = 162.74
PI	7+44.74	1832851.09	6300111.38	STRAIGHT	S 89°07'50" E	D = 206.25
PI	9+50.99	1832847.96	6300317.61	STRAIGHT	S 89°10'02" E	D = 362.19
PI	13+13.18	1832842.70	6300679.76	STRAIGHT	S 89°10'41" E	D = 20.32
POE	13+33.50	1832842.41	6300700.08			

ALIGNMENT: SHT 26B

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1833690.20	6299436.95	STRAIGHT	N 0°58'58" E	D = 40.00
PI	1+40.00	1833730.20	6299437.64	STRAIGHT	N 0°58'44" E	D = 188.74
PC	3+28.74	1833918.91	6299440.86	R = -661.00	DELTA = 3°34'35" LT	L = 41.26
PT	3+70.00	1833960.16	6299440.28			



**CAUTION**  
2" & 6" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. SDG&E STANDBY REQUIRED.

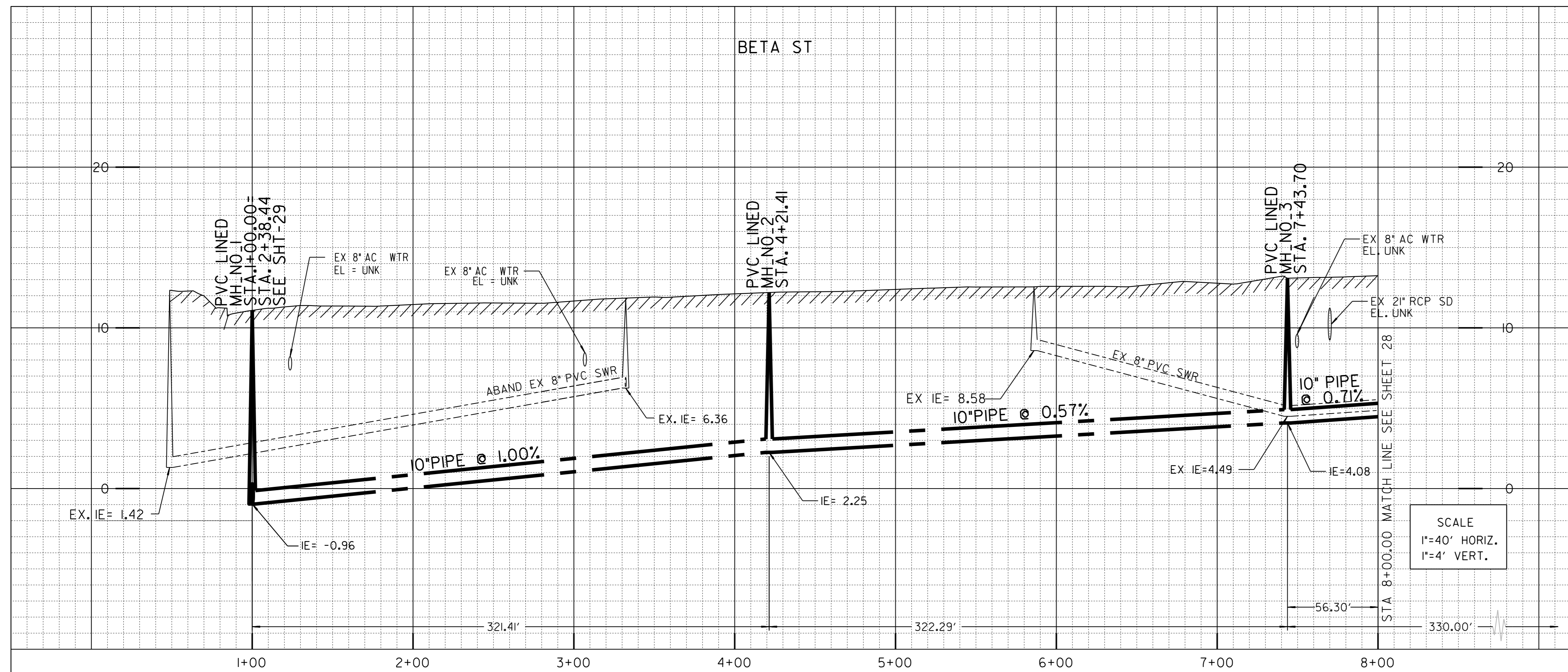
**REFERENCE:**  
WATER: 0990-L, 11884-8-D, 27621-22-D, 37131-12-D  
SEWER: 32260-15-D, 27766-17-D, 27621-100-D  
GAS: 16095-118670, 16087-118680  
ELECTRIC: 16095-118670, 16087-118680  
CABLE TV: TELEPHONE: A469\_BMD1996  
IMPROVEMENTS: 100' SCALE/FIELD BOOK: J245  
THOMAS BROS.: 1289J6  
HGL: 390

**RETIREMENTS:**  
6" - AC - 523' - 1953  
12" - AC - 230' - 1965  
10" - AC - 40' - 1965  
3/4" SERVICE - 13 - COPPER - 1953  
1" SERVICE - 4 - COPPER - 1954  
3/4" SERVICE - 1 - COPPER - 1945  
1" SERVICE - 1 - COPPER 1965

- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 9+50.99  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 13+13.18  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 13+33.50  
1- 12" X 8" REDUCER
- ④ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 13+33.50 +/- 10' AHD  
PHASE 10  
CUT & PLUG;  
EX 8" PVC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

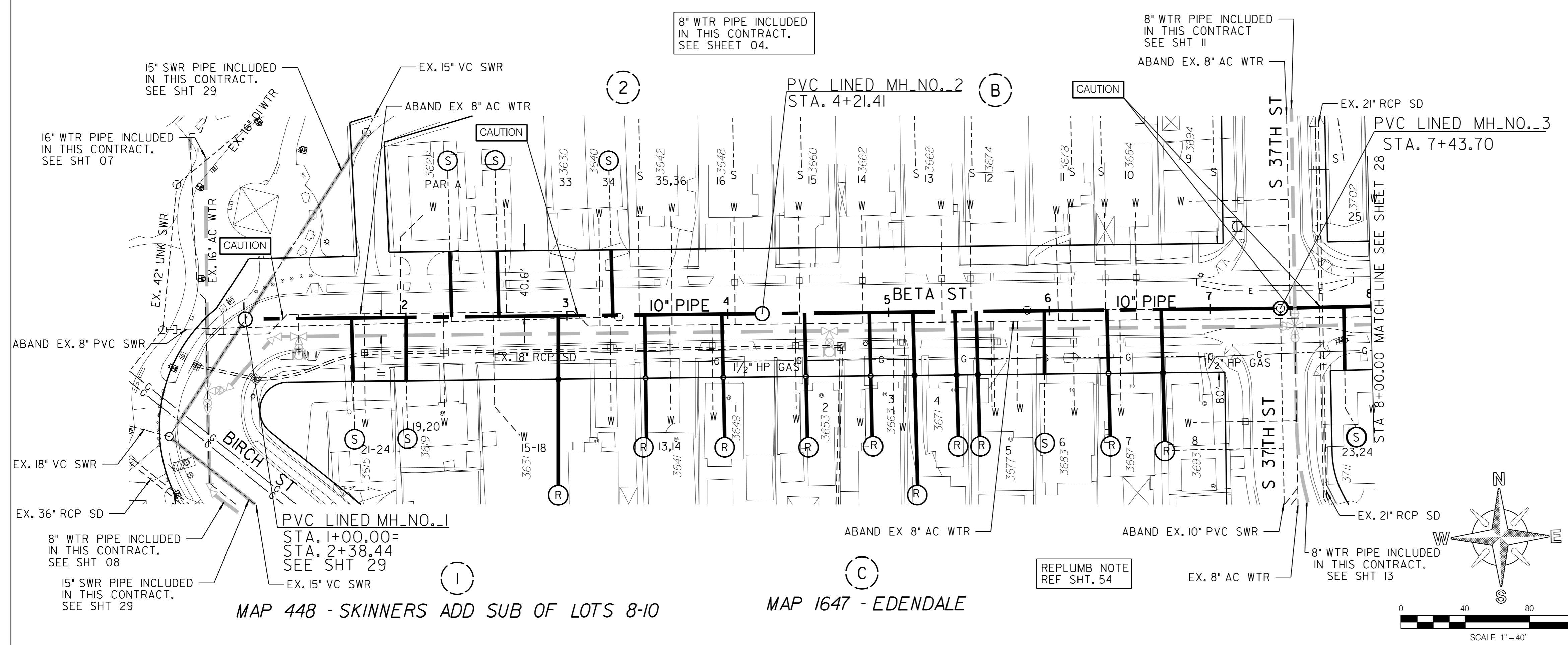
- ⑤ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR  
STA 3+70.00 +/- 10' AHD  
PHASE 8  
CUT & PLUG;  
EX 12" AC WTR  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 5+90.00	490
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 5+90.00	490
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.		



ALIGNMENT: SHEET 27-28

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832238.21	6295023.76	STRAIGHT	S 89°20'17" E	D = 321.41
PI	4+21.41	1832234.50	6295345.14	STRAIGHT	S 89°20'18" E	D = 322.29
PI	7+43.70	1832230.78	6295667.41	STRAIGHT	N 89°56'32" E	D = 330.00
PI	10+73.70	1832231.11	6295997.42	STRAIGHT	S 89°47'48" E	D = 330.40
POE	14+04.11	1832229.94	6296327.82			

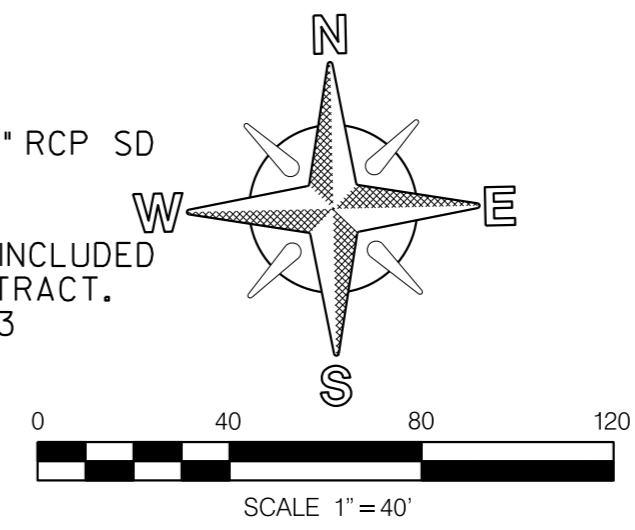


**REFERENCE:**  
 WATER: I6057-D, 22703-9-D, 22703-II-D  
 SEWER: 26285-6-D, 37924-2-D  
 STORM DRAIN: I7255-09-D  
 GAS: I6042-II8665  
 ELECTRIC:  
 CABLE TV:  
 TELEPHONE:  
 IMPROVEMENTS:  
 100' SCALE/FIELD BOOK: I24S  
 THOMAS BROS.: I289G6  
 HGL:

**RETIREMENTS:**  
 8" - PVC - 295' - 1995  
 8" - PVC - 158' - 1995  
 MH - 4X3 - 1 - 1992  
 MH - 4X3 - 1 - 1995  
 4" LATERAL - 7 - UNK - 1995

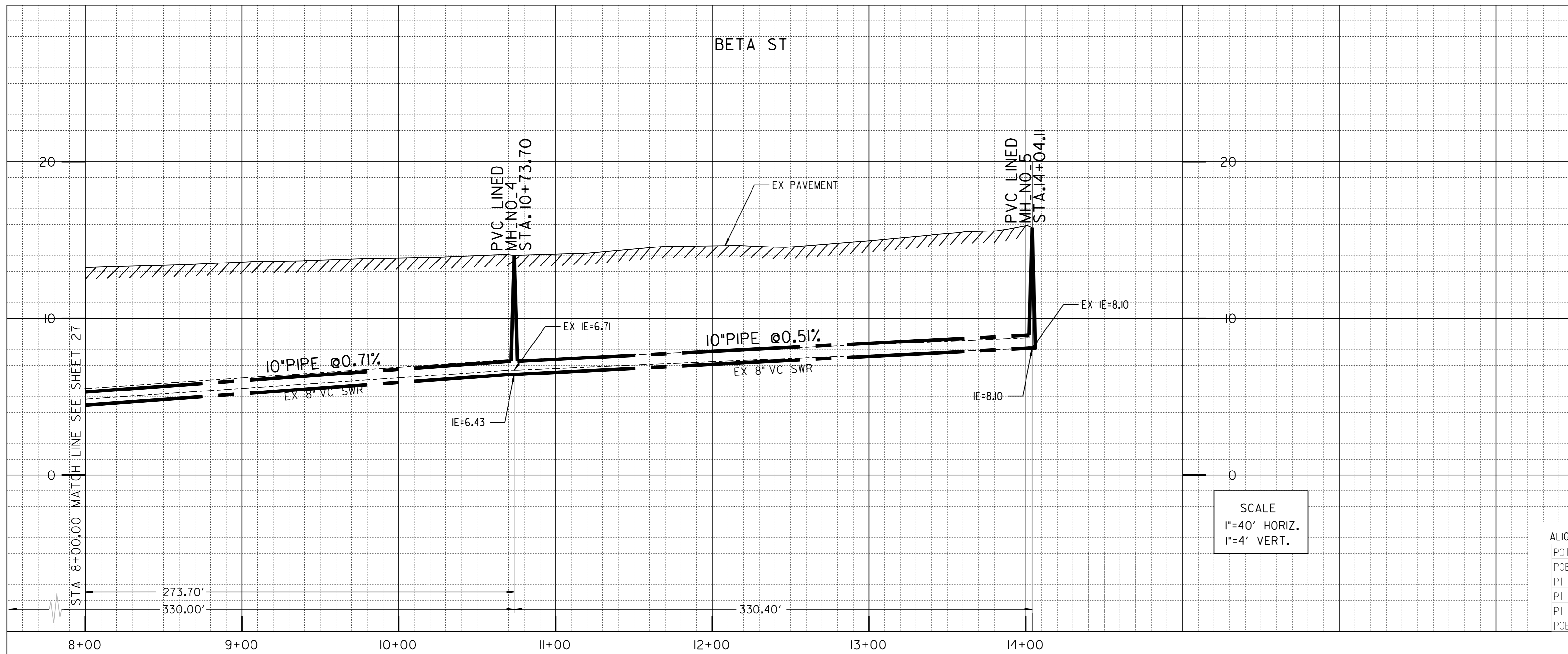
**AC WATER & SEWER GROUP 1052**  
 BETA STREET  
 BIRCH STREET TO S 37TH STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 27 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT DCE NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
		DATE 10/26/21
		FILMED
		190-1731
		CCS27 COORDINATE
		1830-6291
		CCS83 COORDINATE
CONTRACTOR	NTP DATE	41338-27-D
INSPECTOR	NOC DATE	



BETA STREET

C-24



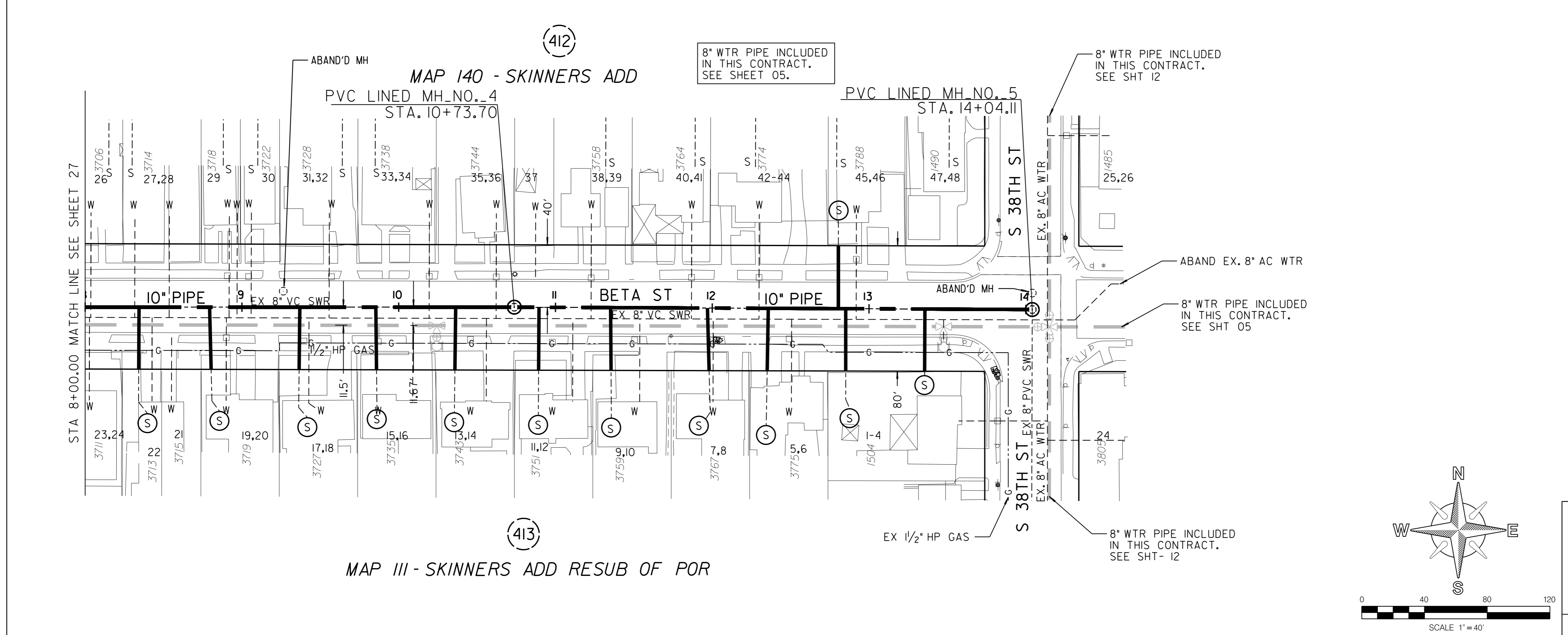
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 8+00.00	STA. 14+04.11	604.11

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 8+00.00	STA. 14+04.11	604.11

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

ALIGNMENT: SHEET 27-28

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832238.21	6295023.76	STRAIGHT	S 89°20'17" E	D = 321.41
PI	4+21.41	1832234.50	6295345.14	STRAIGHT	S 89°20'18" E	D = 322.29
PI	7+43.70	1832230.78	6295667.41	STRAIGHT	N 89°56'32" E	D = 330.00
PI	10+73.70	1832231.11	6295997.42	STRAIGHT	S 89°47'48" E	D = 330.40
POE	14+04.11	1832229.94	6296327.82			



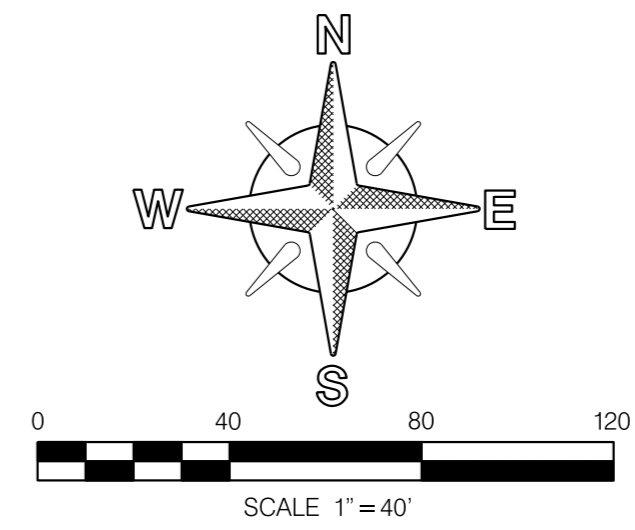
REFERENCE:  
 WATER: 22703-10-D  
 SEWER: 22703-10-D  
 STORM DRAIN: I7255-5-D  
 GAS: I6050-I18665, I6057-I18665  
 ELECTRIC: I6050-I18665, I6057-I18665  
 CABLE TV:  
 TELEPHONE:  
 IMPROVEMENTS:  
 100' SCALE/FIELD BOOK: I245  
 THOMAS BROS.: I289G6  
 HGL:

RETIREMENTS:  
 8" - VITRIFIED CLAY - 270' - 1952  
 8" - VITRIFIED CLAY - 330' - 1986  
 MH - 4X3 - 2 - 1986  
 4" LATERAL - II - UNK - NULL  
 4" LATERAL - I - ABS - 2003

C-25

**AC WATER & SEWER GROUP 1052**  
**BETA STREET**  
 EO S 37TH STREET TO S 38TH STREET

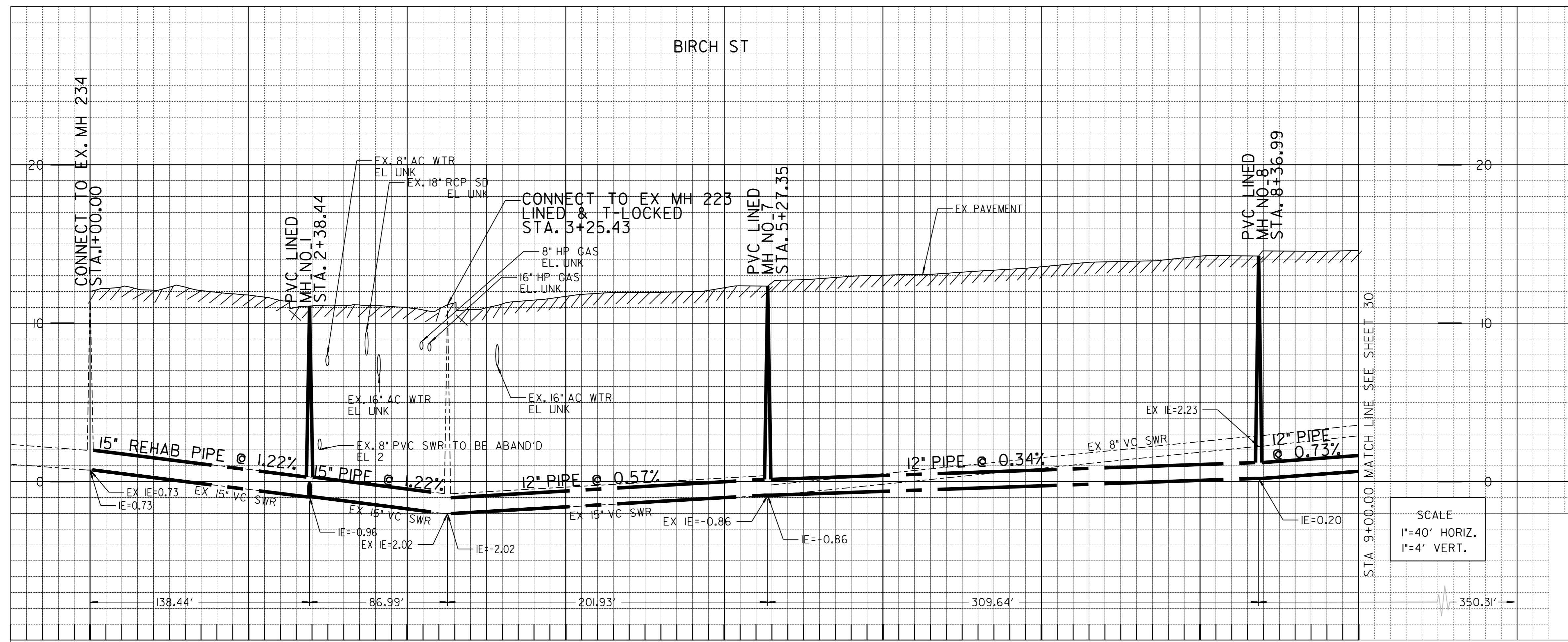
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 28 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER <b>JANICE JARO</b>	DATE: 10/26/2021 PROJECT MANAGER C70770	DESIGNED BY: AMY MILLS PROJECT ENGINEER
DESCRIPTION: ORIGINAL	BY: <i>[Signature]</i>	DATE: 10/26/21
PROJECT ENGINEER: JING DEBELISO		PROJECT NUMBER: 190-1731
CONTRACTOR: _____		COORDINATE: 1830-6291 CCS83 COORDINATE
INSPECTOR: _____		PROJECT NUMBER: 41338-28-D



BETA STREET



BIRCH ST

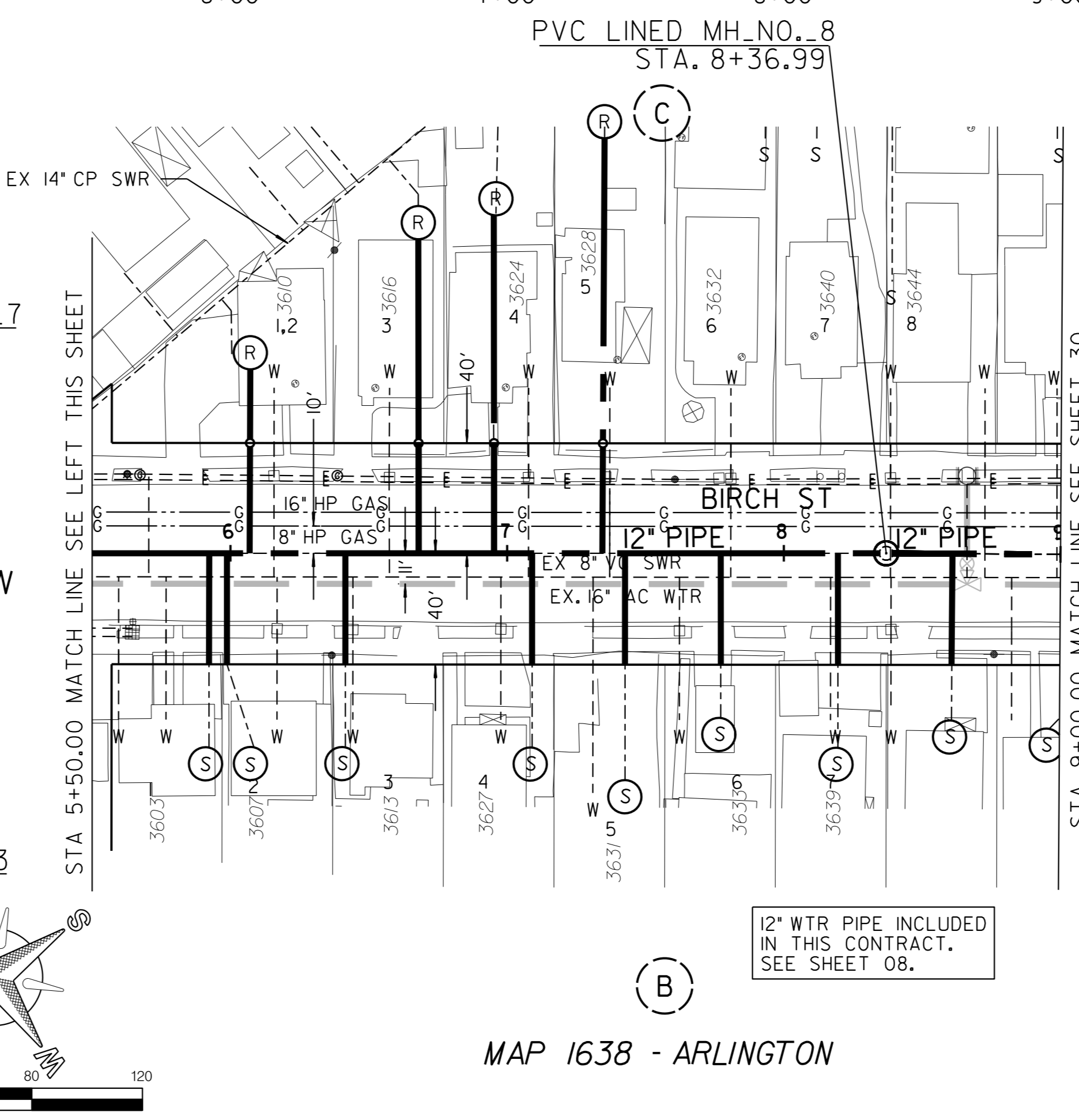
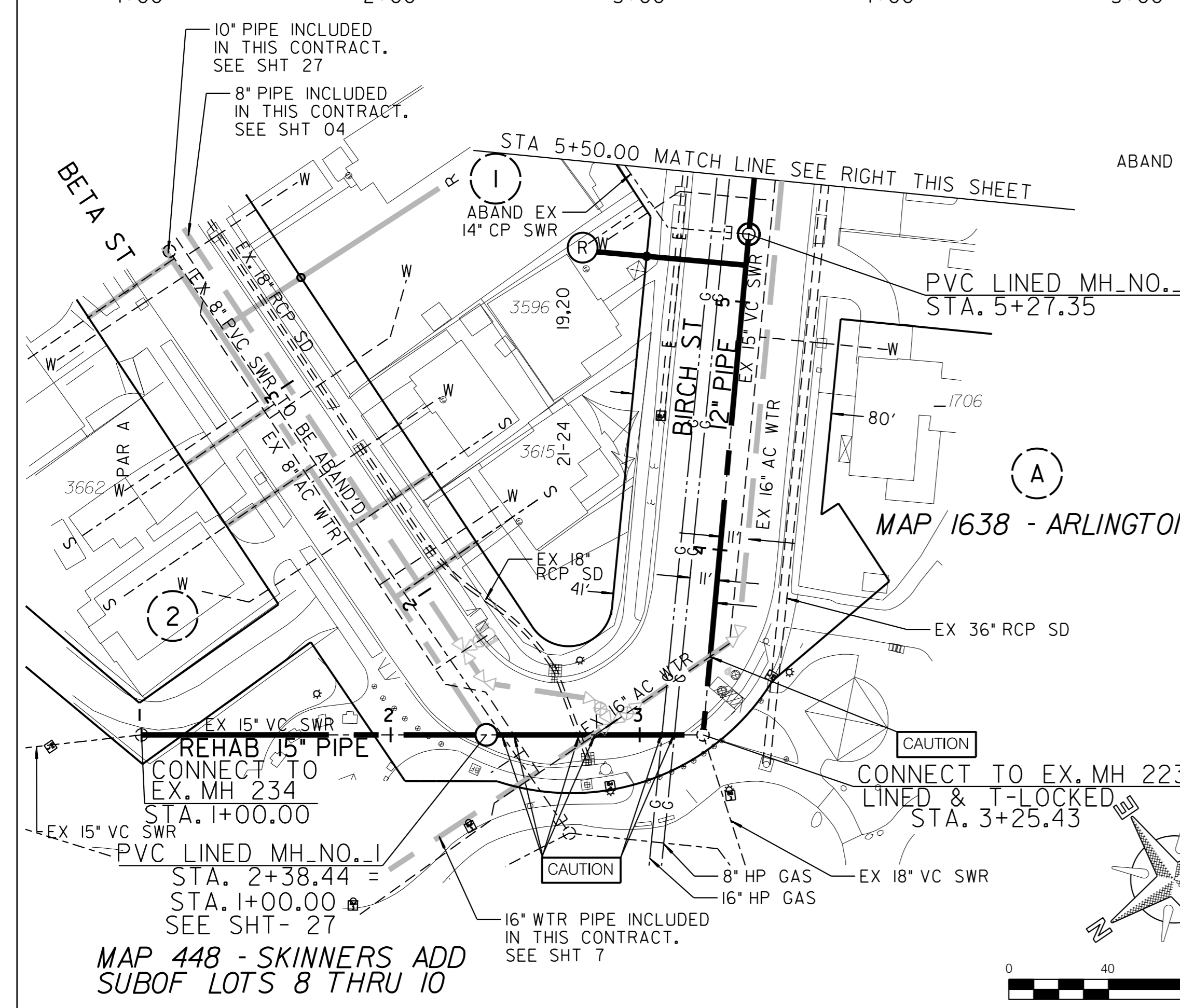


ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 9+00.00	800
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 9+00.00	800
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.		

ALIGNMENT: SHEET 29-30A

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832352.75	6295101.52	STRAIGHT	S 34°10'23" W	D = 138.44
PI	2+38.44	1832238.21	6295023.76	STRAIGHT	S 34°10'22" W	D = 86.99
PI	3+25.43	1832166.24	6294974.9	STRAIGHT	S 50°36'26" E	D = 201.93
PI	5+27.35	1832038.09	6295130.95	STRAIGHT	S 50°14'17" E	D = 309.64
PI	8+36.99	1831840.05	6295368.97	STRAIGHT	S 49°52'52" E	D = 350.31
POE	11+87.30	1831614.32	6295636.85			

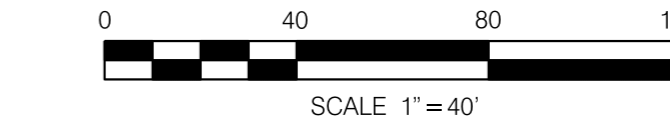
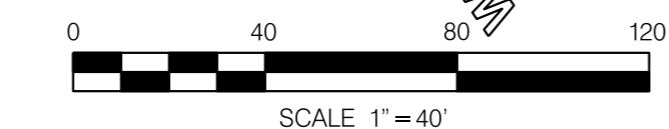
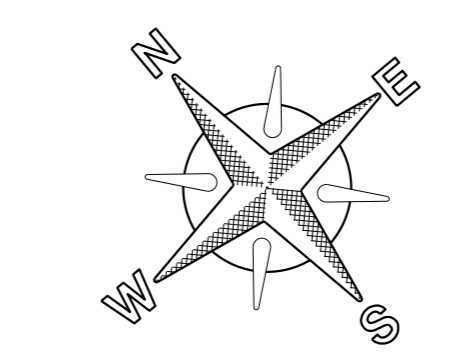
SCALE  
1"=40' HORIZ.  
1"=4' VERT.



**CAUTION**  
16" & 8" HP GAS CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

**CONTRACTOR'S NOTE:**  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

REPLUMB NOTE  
REF SHT. 55



**REFERENCE:**  
WATER: 22703-5-D  
SEWER: 16511-4-D, 20396-D, 26285-6-D, 26285-20-D  
STORM DRAIN: 17255-9-D  
GAS: 16042-118665  
ELECTRIC: 16042-118665  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: 1245  
THOMAS BROS.: 1289G6  
HGL:

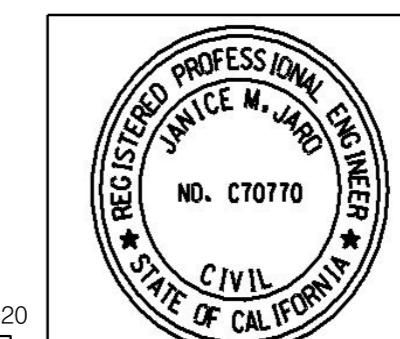
**RETIREMENTS:**  
15" - VITRIFIED CLAY - 225' - 1982  
15" - VITRIFIED CLAY - 202' - 1975  
MH - 4X3 - 5 - 1975  
4" LATERAL - 8 - UNK - UNK

MAP 448 - SKINNERS ADD  
SUBOF LOTS 8 THRU 10

MAP 1638 - ARLINGTON

AC WATER & SEWER GROUP 1052  
BIRCH STREET  
ALLEY BLK 2 TO NWO UNA STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 29 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED FOR CITY ENGINEER JANICE JARO DATE 10/26/2021 PROJECT NUMBER C70770	DESIGNED BY JING DEBELISO PROJECT ENGINEER	PROJECT MANAGER AMY MILLS
DESCRIPTION ORIGINAL	DATE FILMED 10/26/21	PROJECT NUMBER 190-1731 COORDINATE CCS27 1830-6291 COORDINATE CCS83 6295636.85
CONTRACTOR INSPECTOR		NTP DATE NOC DATE 41338-29-D

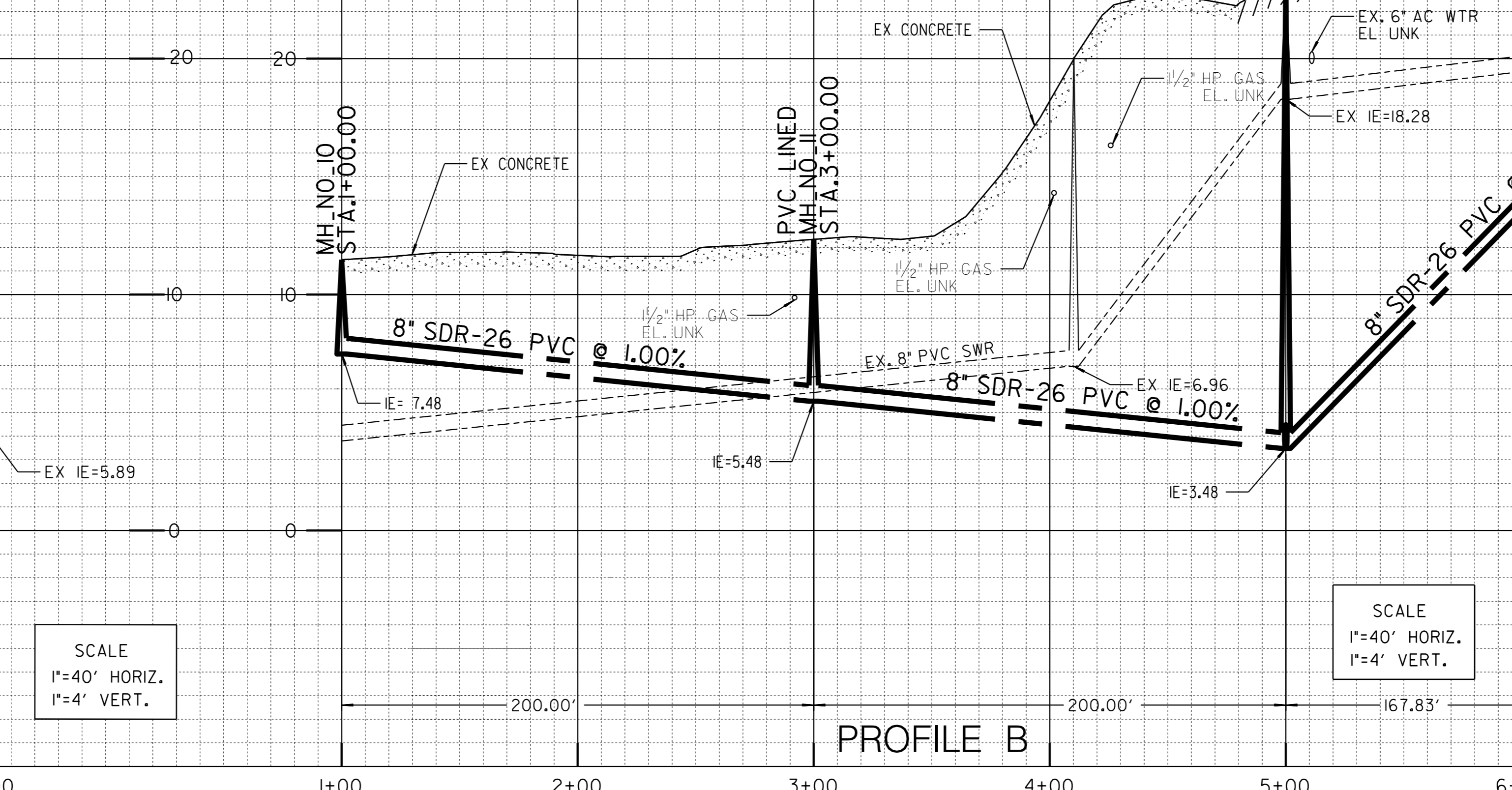
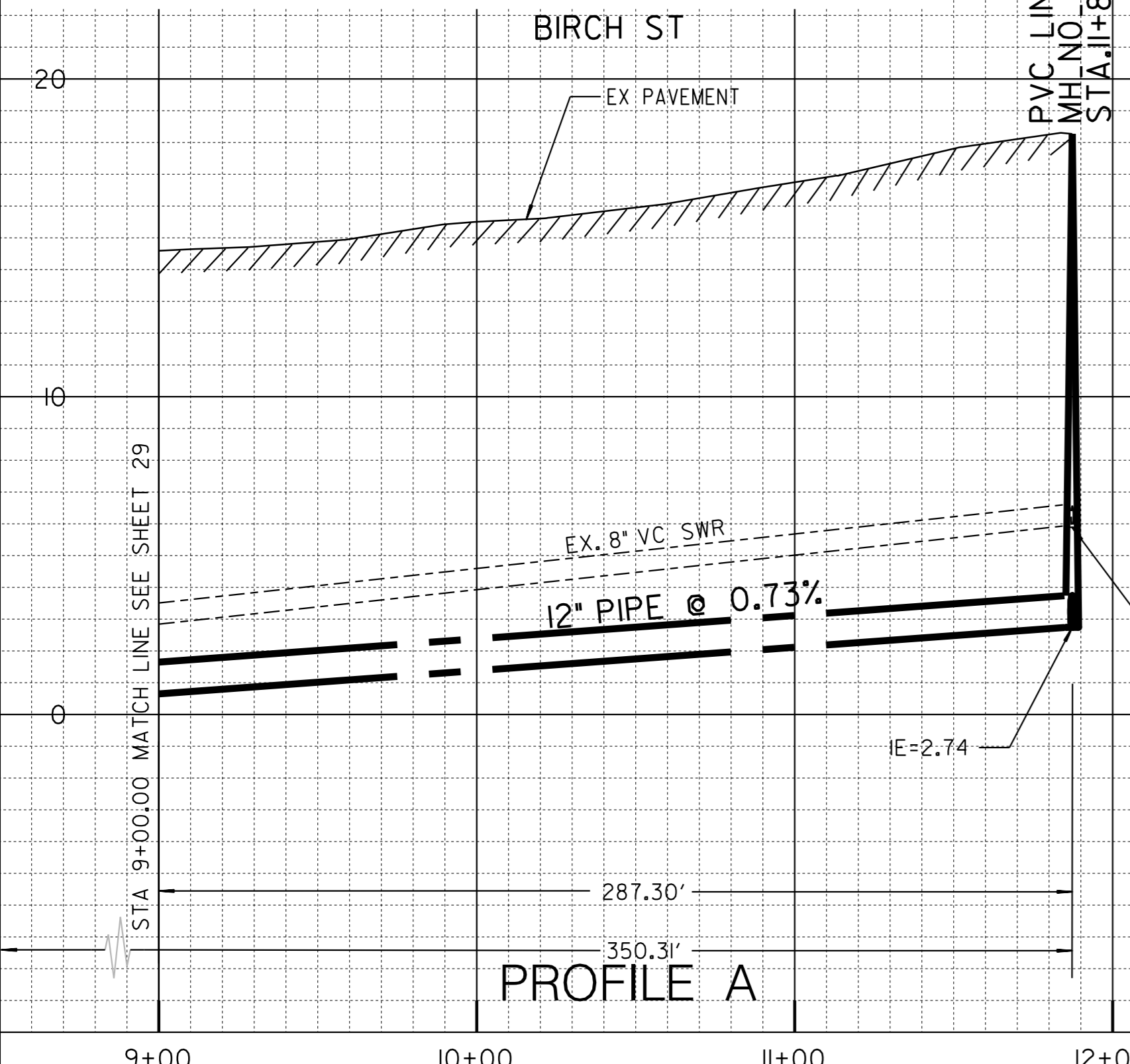


BIRCH STREET

C-26

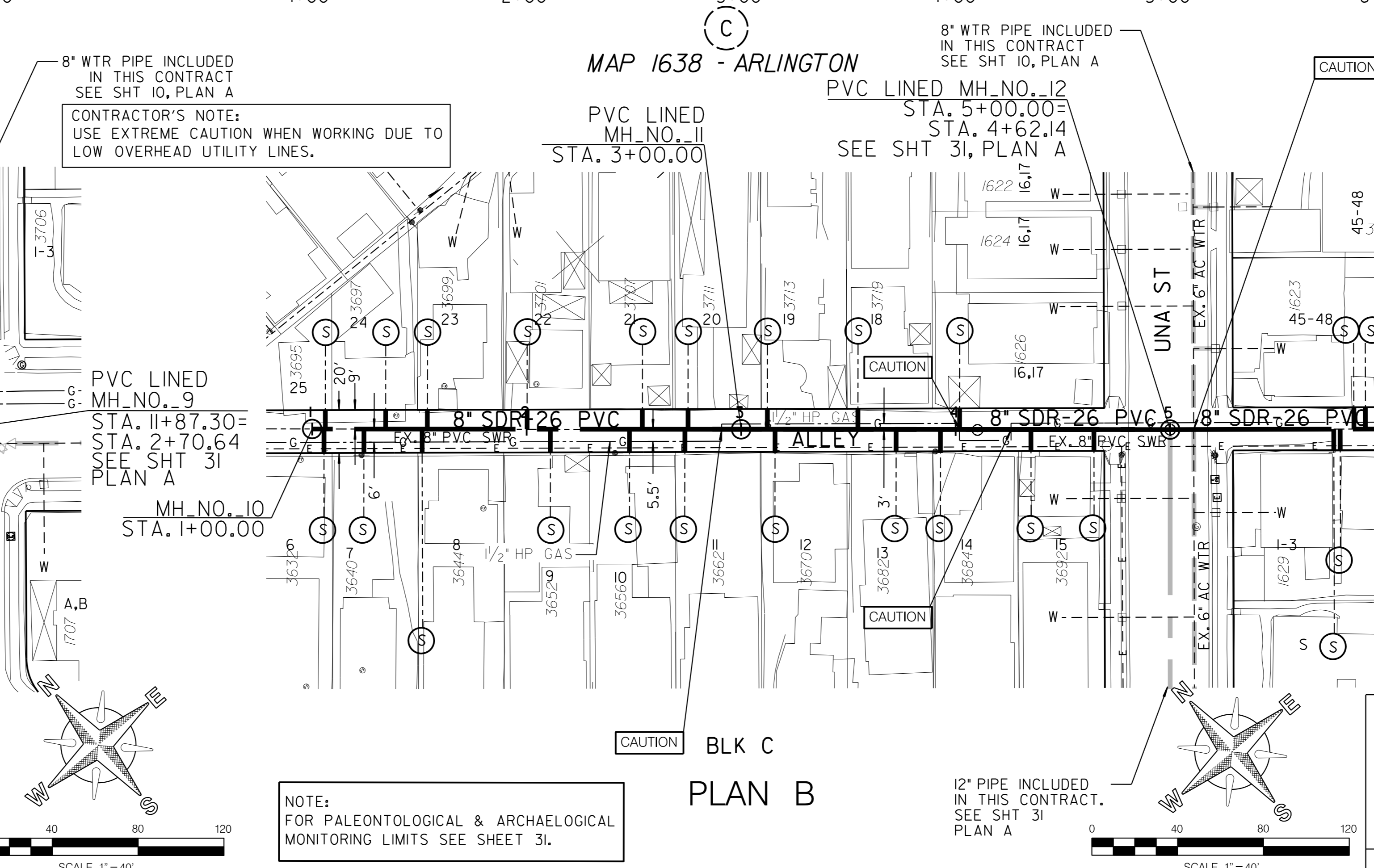
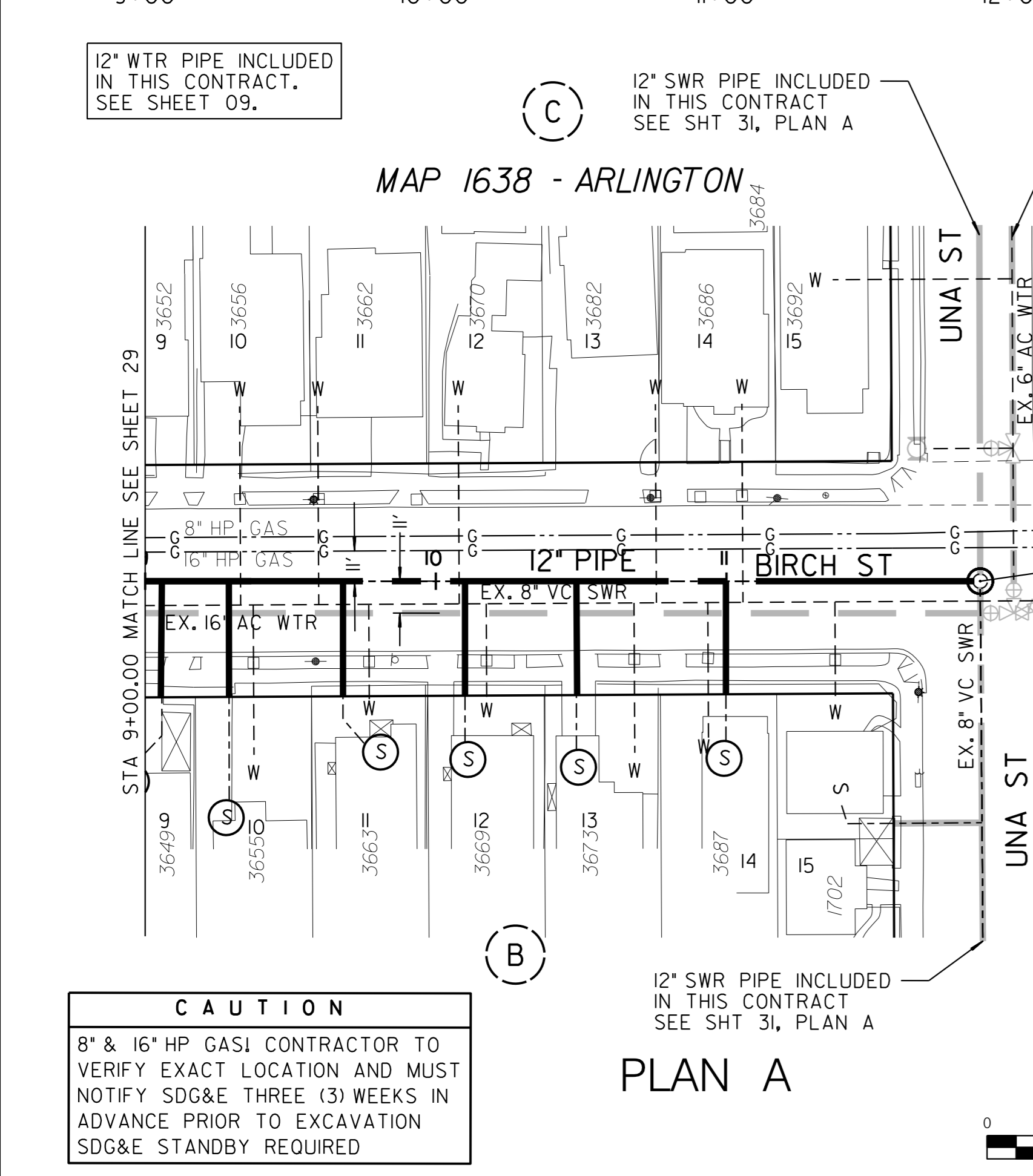
ALIGNMENT: SHEET 29-30A

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832352.75	6295101.52	STRAIGHT	S 34°10'23" W	D = 138.44
PI	2+38.44	1832238.21	6295023.76	STRAIGHT	S 34°10'22" W	D = 86.99
PI	3+25.43	1832166.24	6294974.9	STRAIGHT	S 50°36'26" E	D = 201.93
PI	5+27.35	1832038.09	6295130.95	STRAIGHT	S 50°14'17" E	D = 309.64
PI	8+36.99	1831840.05	6295368.97	STRAIGHT	S 49°52'52" E	D = 350.31
POE	11+87.30	1831614.32	6295636.85			



ALIGNMENT: SHEET 30B

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1832018.33	6295453.58	STRAIGHT	S 49°58'28" E	D = 200.00
PI	3+00.00	1831889.70	6295606.73	STRAIGHT	S 49°58'24" E	D = 200.00
PI	5+00.00	1831761.08	6295759.88	STRAIGHT	S 50°11'16" E	D = 167.83
POE	6+67.83	1831653.62	6295888.80			



**REFERENCE:**  
 WATER: 2703-5-D, 10136-19-D  
 SEWER: 16511-3-D, 27599-5-D, 27599-6-D, 27599-7-D  
 STORM DRAIN:  
 GAS: I6050-I18660  
 ELECTRIC: I6050-I18660  
 CABLE TV:  
 TELEPHONE: A469-BME.1993  
 IMPROVEMENTS:  
 100' SCALE/FIELD BOOK: I245  
 THOMAS BROS.: I289G6  
 HGL:

**RETIREMENTS:**  
 8" - VITRIFIED CLAY - 352' - 1975  
 8" - PVC - 501' - 1998  
 MH - 4X3 - 1 - 1975  
 MH - 4X3 - 2 - 1998  
 4" LATERAL - 5 - UNK - 1975  
 4" LATERAL - 25 - UNK - 1998  
 4" LATERAL - 1 - ABS - 2005

**CAUTION**  
 8" & 16" HP GAS CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

**NOTE:**  
 FOR PALEONTOLOGICAL & ARCHAEOLOGICAL MONITORING LIMITS SEE SHEET 31.

**AC WATER & SEWER GROUP 1052**  
 BIRCH STREET /ALLEY BLK C  
 SEO THOR STREET TO UNA STREET  
 NWO UNA STREET TO NWO VESTA STREET

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
 SHEET 30 OF 56 SHEETS

WATER WBS B-18092  
 SEWER WBS B-18096

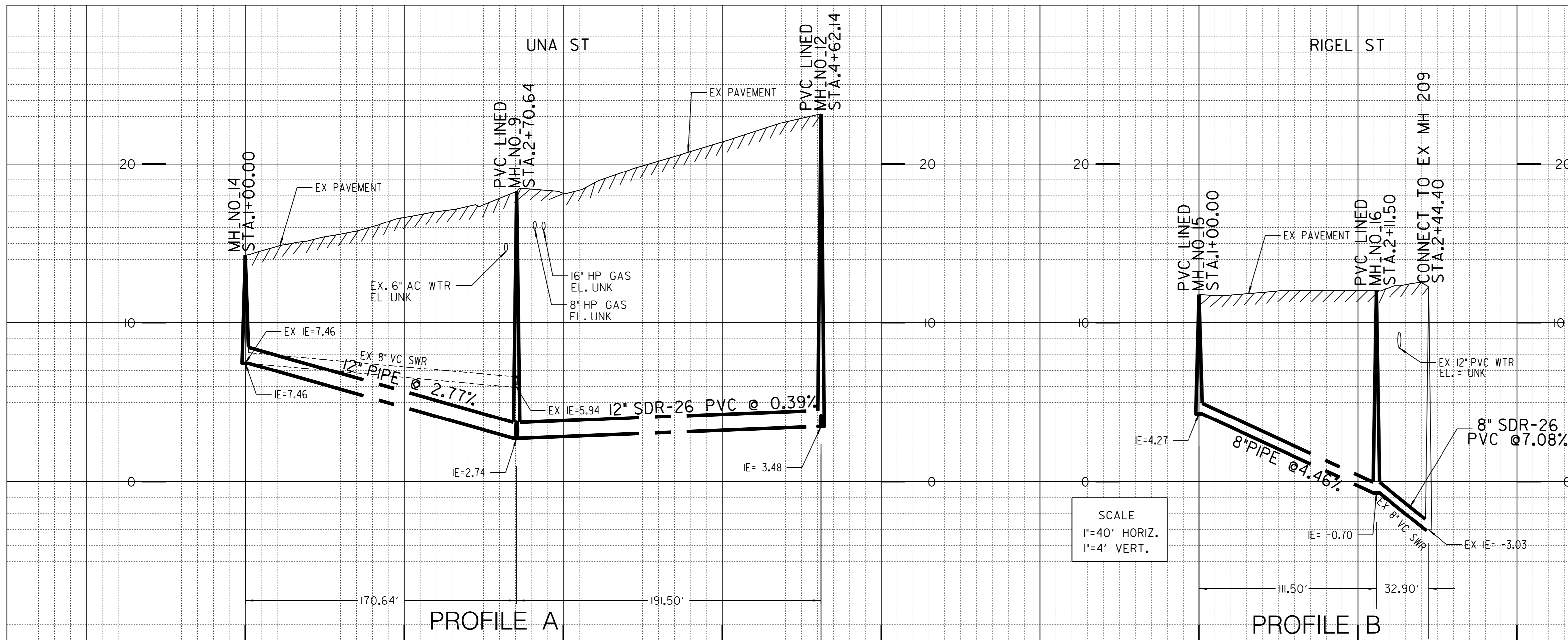
APPROVED: 10/26/2021  
 FOR CITY ENGINEER: JANICE JARO  
 DATE: 10/26/21  
 PRINT DSC NAME: RCE#

DESIGNED BY: JING DEBELISO  
 PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	JD/DW	JARO	10/26/21	

190-1731  
 CCS27 COORDINATE  
 1830-6291  
 CCS83 COORDINATE  
 41338-30-D

BIRCH STREET /ALLEY BLK C



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS  
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
SHT 30A STA. 9+00.00	STA. 11+87.30	287.3
SHT 30B STA. 3+90.00	STA. 6+10.00	220
SHT 31A STA. 1+80.00	STA. 4+62.14	282.14
SHT 31B STA. 1+00.00	STA. 2+44.40	144.4

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS  
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
SHT 30A STA. 9+00.00	STA. 11+87.30	287
SHT 30B STA. 3+00.00	STA. 6+67.83	368
SHT 31A STA. 2+70.63	STA. 4+62.14	192
SHT 31B STA. 1+00.00	STA. 2+44.40	144

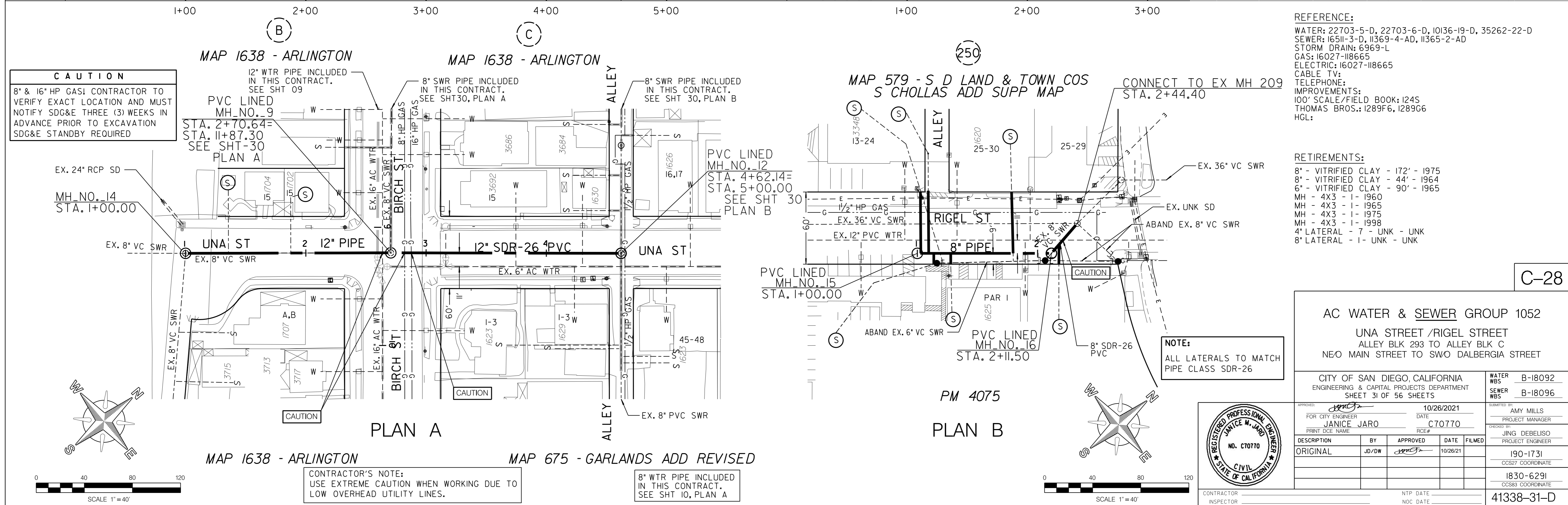
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

ALIGNMENT: SHEET 31A

POINT STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB 1+00.00	1831483.02	6295527.87	STRAIGHT	N 39°41'35" E	D = 170.64
PI 2+70.64	1831614.32	6295636.85	STRAIGHT	N 39°58'23" E	D = 191.50
POE 4+62.14	1831761.08	6295759.88			

ALIGNMENT: SHEET 31B

POINT STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB 1+00.00	1832113.61	6293499.86	STRAIGHT	N 39°41'54" E	D = 111.50
PI 2+11.50	1832199.40	6293571.08	STRAIGHT	N 9°24'13" W	D = 32.90
POE 2+44.40	1832231.86	6293565.70			

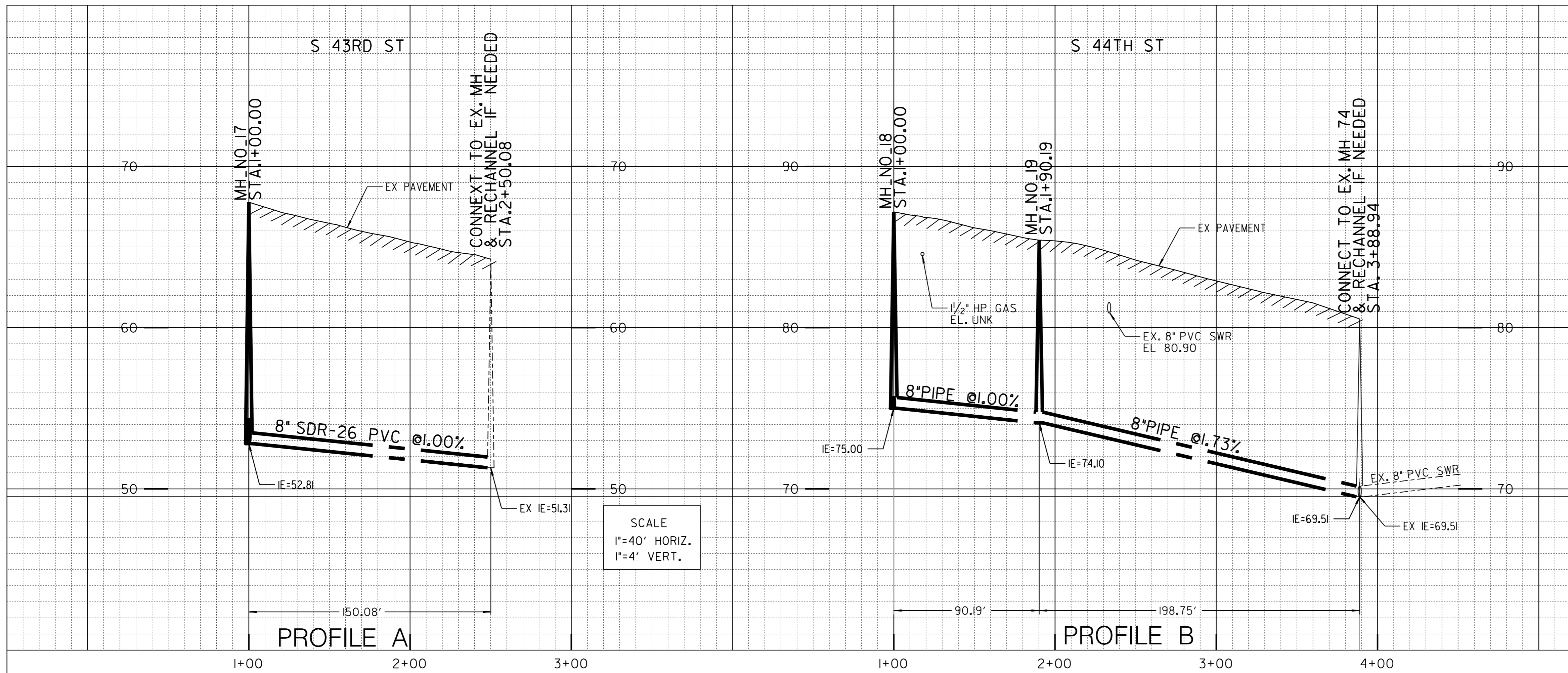


**CAUTION**  
8" & 16" HP GAS CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

**REFERENCE:**  
WATER: 22703-5-D, 22703-6-D, 10136-19-D, 35262-22-D  
SEWER: 16511-3-D, 11369-4-AD, 11365-2-AD  
STORM DRAIN: 6969-L  
GAS: 16027-118665  
ELECTRIC: 16027-118665  
CABLE TV: TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: 1245  
THOMAS BROS.: 1289F6, 1289G6  
HGL:

**RETIREMENTS:**  
8" - VITRIFIED CLAY - 172' - 1975  
8" - VITRIFIED CLAY - 44' - 1964  
6" - VITRIFIED CLAY - 90' - 1965  
MH - 4X3 - 1 - 1960  
MH - 4X3 - 1 - 1965  
MH - 4X3 - 1 - 1975  
MH - 4X3 - 1 - 1998  
4" LATERAL - 7 - UNK - UNK  
8" LATERAL - 1 - UNK - UNK

**NOTE:**  
ALL LATERALS TO MATCH PIPE CLASS SDR-26



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 2+50.08	150
STA. 1+00.00	STA. 3+88.94	289

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 2+50.08	150
STA. 1+00.00	STA. 3+88.94	289

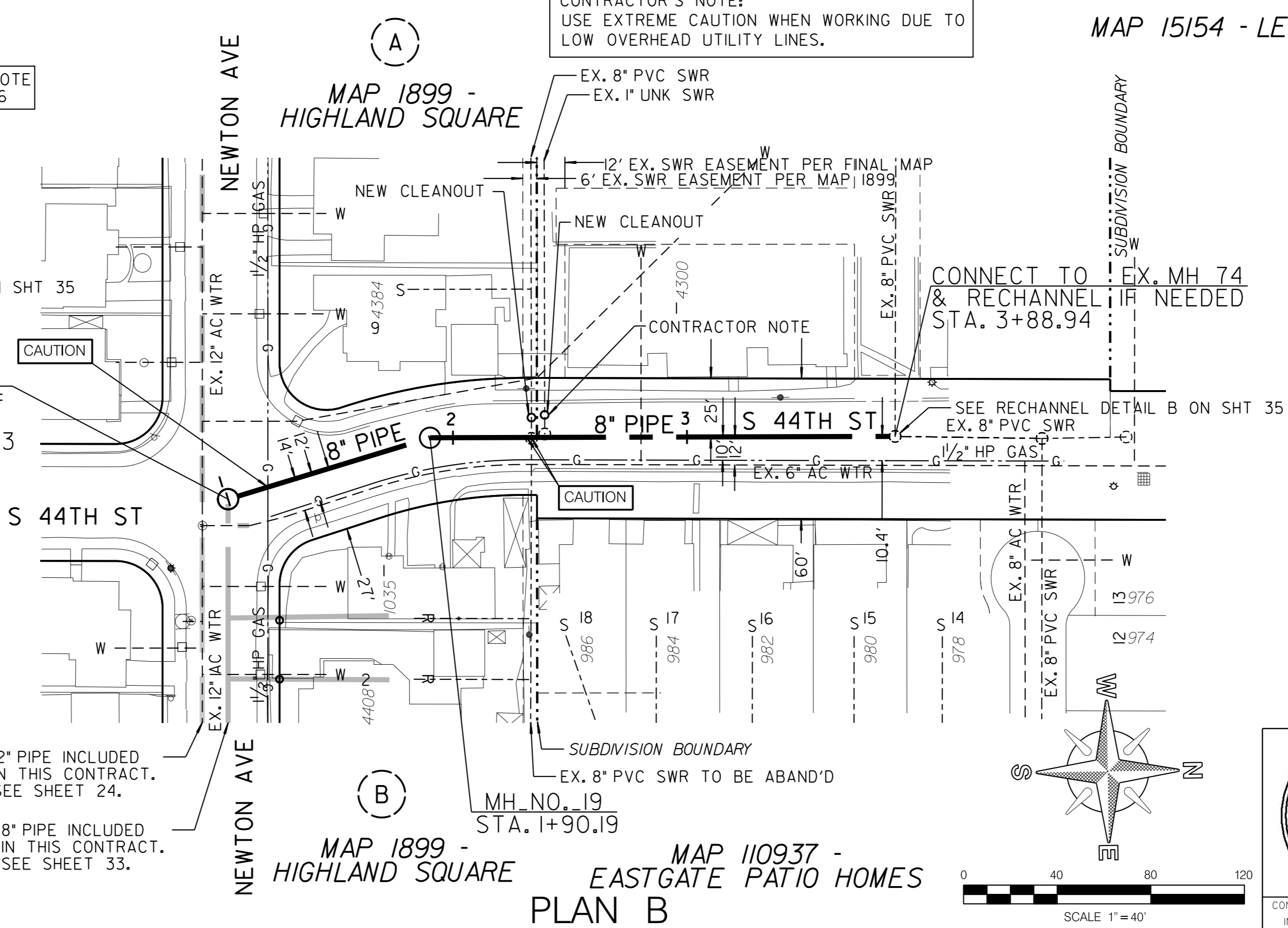
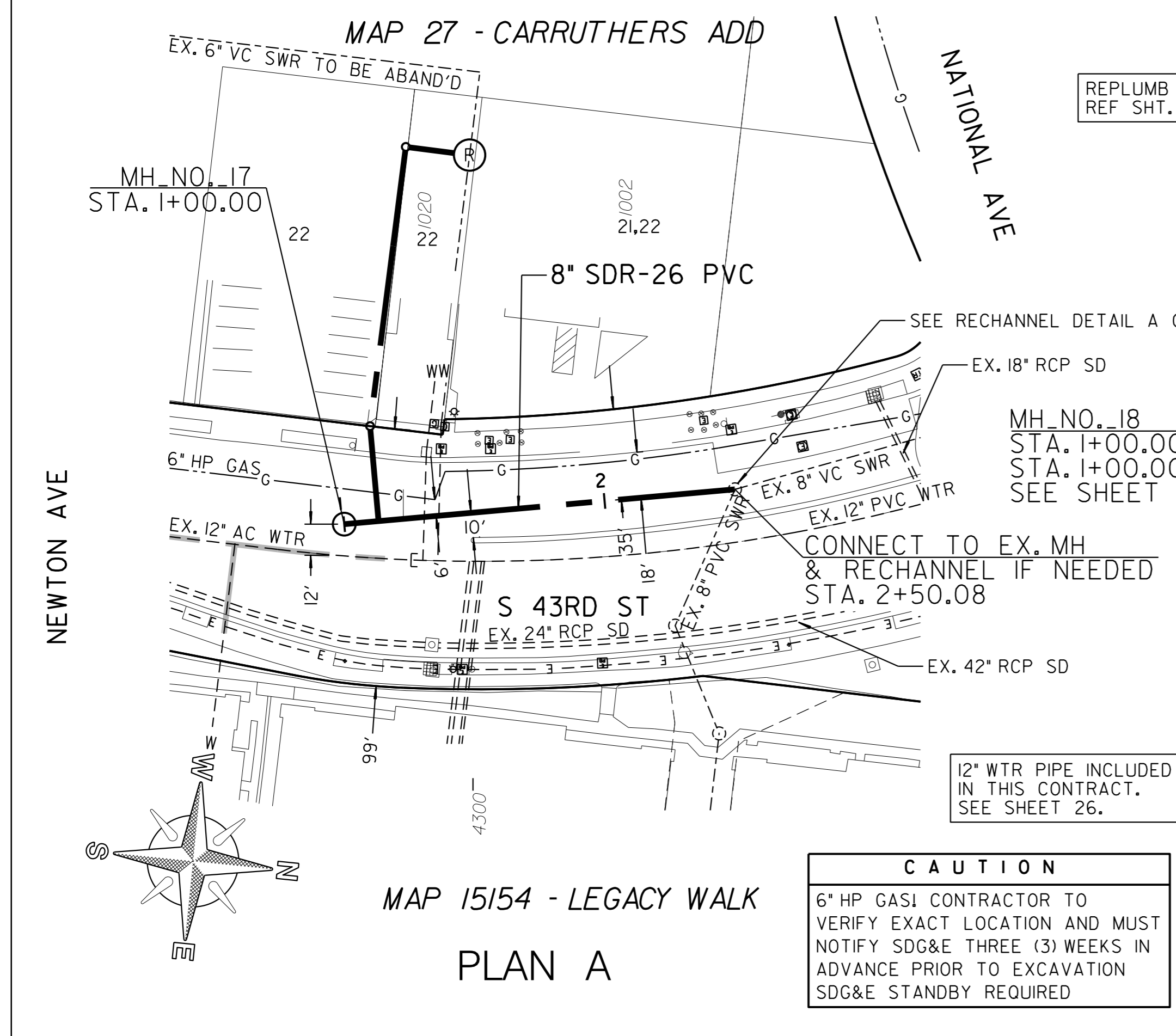
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

ALIGNMENT: SHEET 32A

POINT STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB 1+00.00	1833943.34	6299428.69	STRAIGHT	N 10°51'10" W	D = 150.08
POE 2+50.08	1834090.73	6299400.43			

ALIGNMENT: SHEET 32B

POINT STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB 1+00.00	1833601.25	6300112.99	STRAIGHT	N 16°02'29" W	D = 90.18
PI 1+90.18	1833687.92	6300088.07	STRAIGHT	N 0°42'54" E	D = 198.76
POE 3+88.94	1833886.66	6300090.55			



**REFERENCE:**  
 WATER: I1725-16-D, 27621-23-D  
 SEWER: 03124-L, 3275-18-D, 33275-22-D, I4224-09-L  
 STORM DRAIN: 07578-L, 27621-100-D  
 GAS: I6087-118680, I6087-118685  
 ELECTRIC: I6087-118685  
 CABLE TV: COX FACILITY MAP I  
 TELEPHONE: A469\_BMD1996  
 IMPROVEMENTS:  
 100' SCALE/FIELD BOOK: J245  
 THOMAS BROS.: I289H5, I289H6  
 HGL:

**RETIREMENTS:**  
 MH - 4X3 - 1- 2008  
 MH - 4X3 - 1- UNK

**CONTRACTOR NOTE:**  
 TELEWISE EX. SEWER MAIN TO DETERMINE IF SEWER HAS FLOW BEFORE INSTALLING THE CLEANOUT. OTHERWISE ABANDON EX. SEWER MAIN.

AC WATER & SEWER GROUP 1052  
 S 43RD STREET /S 44TH STREET  
 SO NATIONAL AVENUE TO NO NEWTON AVENUE  
 NO NEWTON AVENUE

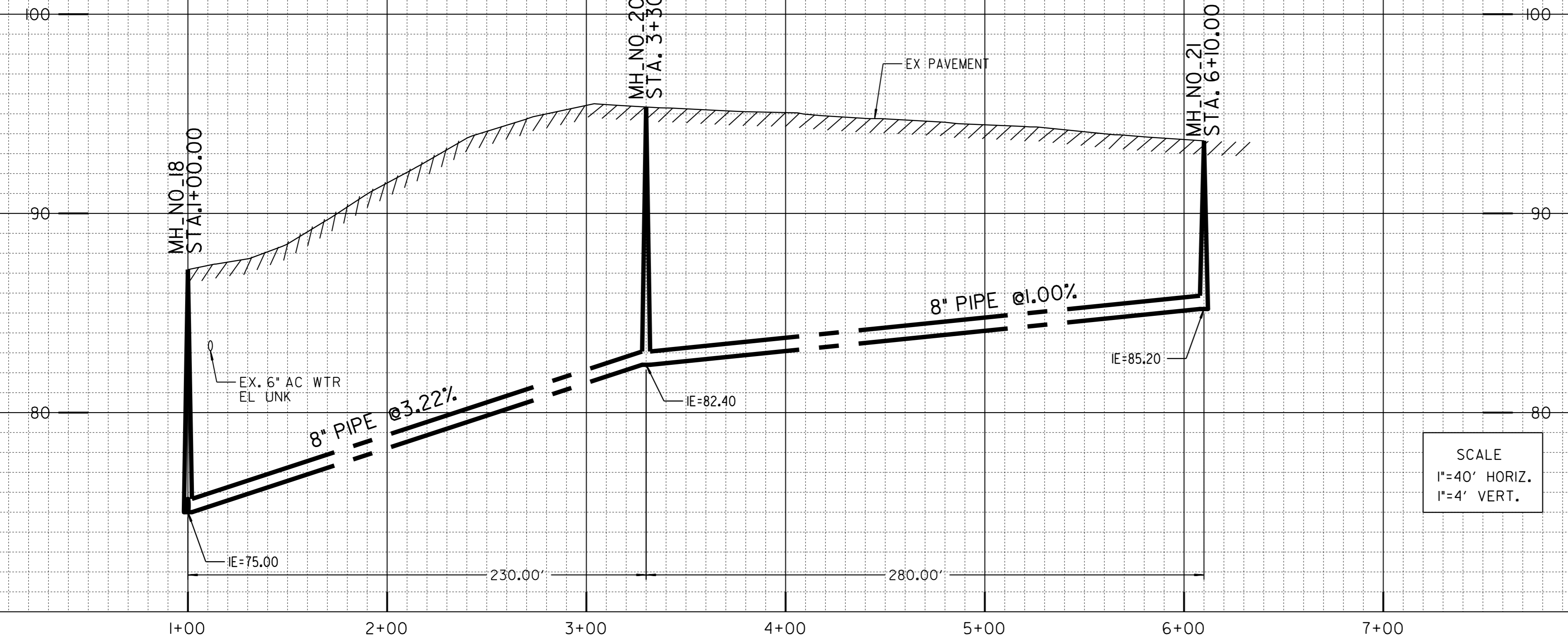
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 32 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: [Signature] FOR CITY ENGINEER JANICE JARO PRINTED NAME	DATE 10/26/2021 PROJECT NUMBER C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY	APPROVED
	JD/DW	[Signature]
		DATE 10/26/21
		FILMED
		194-1737
		CCS27 COORDINATE
		1834-6297
		CCS83 COORDINATE
		41338-32-D

CONTRACTOR INSPECTOR \_\_\_\_\_ NTP DATE \_\_\_\_\_  
 \_\_\_\_\_ NOC DATE \_\_\_\_\_

S 43RD STREET /S 44TH STREET

NEWTON AVE

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 6+10.00	510.00
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 6+10.00	510.00
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.		



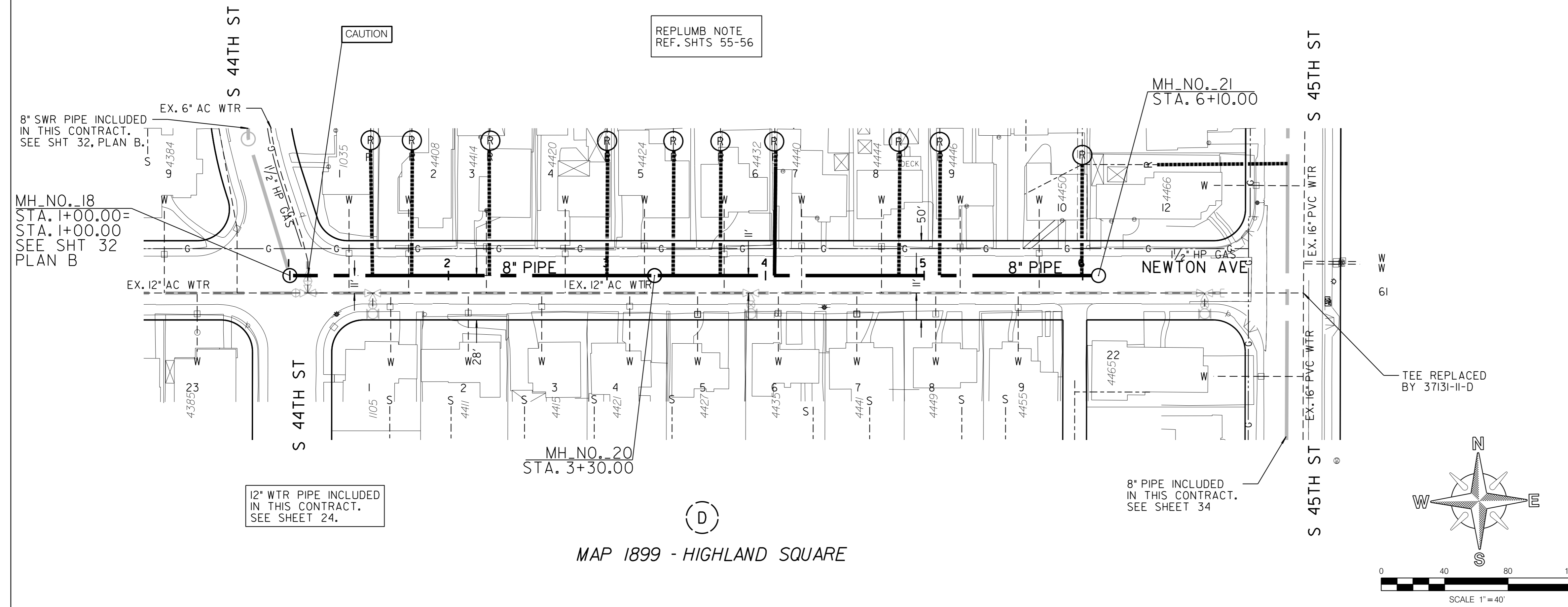
SCALE  
1"=40' HORIZ.  
1"=4' VERT.

ALIGNMENT: SHEET 33

POINT STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB 1+00.00	1833601.25	6300112.99	STRAIGHT	S 89°07'10" E	D = 230.00
PI 3+30.00	1833597.71	6300342.96	STRAIGHT	S 89°07'08" E	D = 280.00
POE 6+10.00	1833593.41	6300622.93			

REFERENCE:  
WATER: I1884-9-D, 37131-II-D  
SEWER: 27766-21-D, 27766-22-D  
STORM DRAIN:  
GAS: I6095-II8680  
ELECTRIC: I6095-II8680  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: J245  
THOMAS BROS.: I289J6  
HGL:

RETIREMENTS:



REPLUMB NOTE  
REF. SHTS 55-56

CAUTION

8" SWR PIPE INCLUDED  
IN THIS CONTRACT.  
SEE SHT 32, PLAN B.

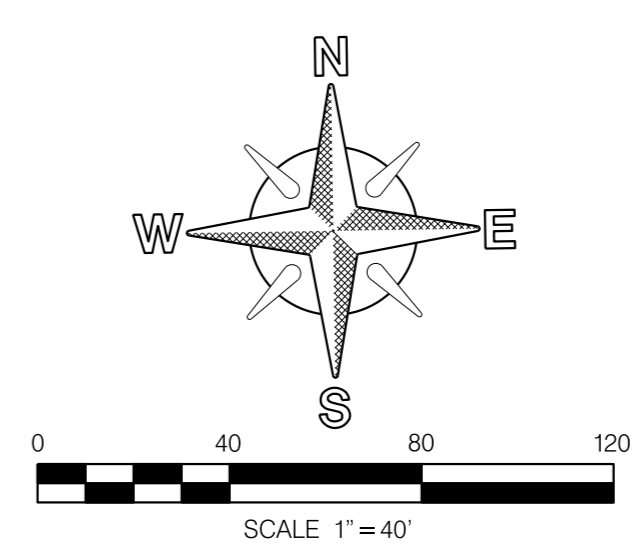
MH\_NO. 18  
STA. 1+00.00  
STA. 1+00.00  
SEE SHT 32  
PLAN B

12" WTR PIPE INCLUDED  
IN THIS CONTRACT.  
SEE SHEET 24.

8" PIPE INCLUDED  
IN THIS CONTRACT.  
SEE SHEET 34

TEE REPLACED  
BY 37131-II-D

MAP 1899 - HIGHLAND SQUARE



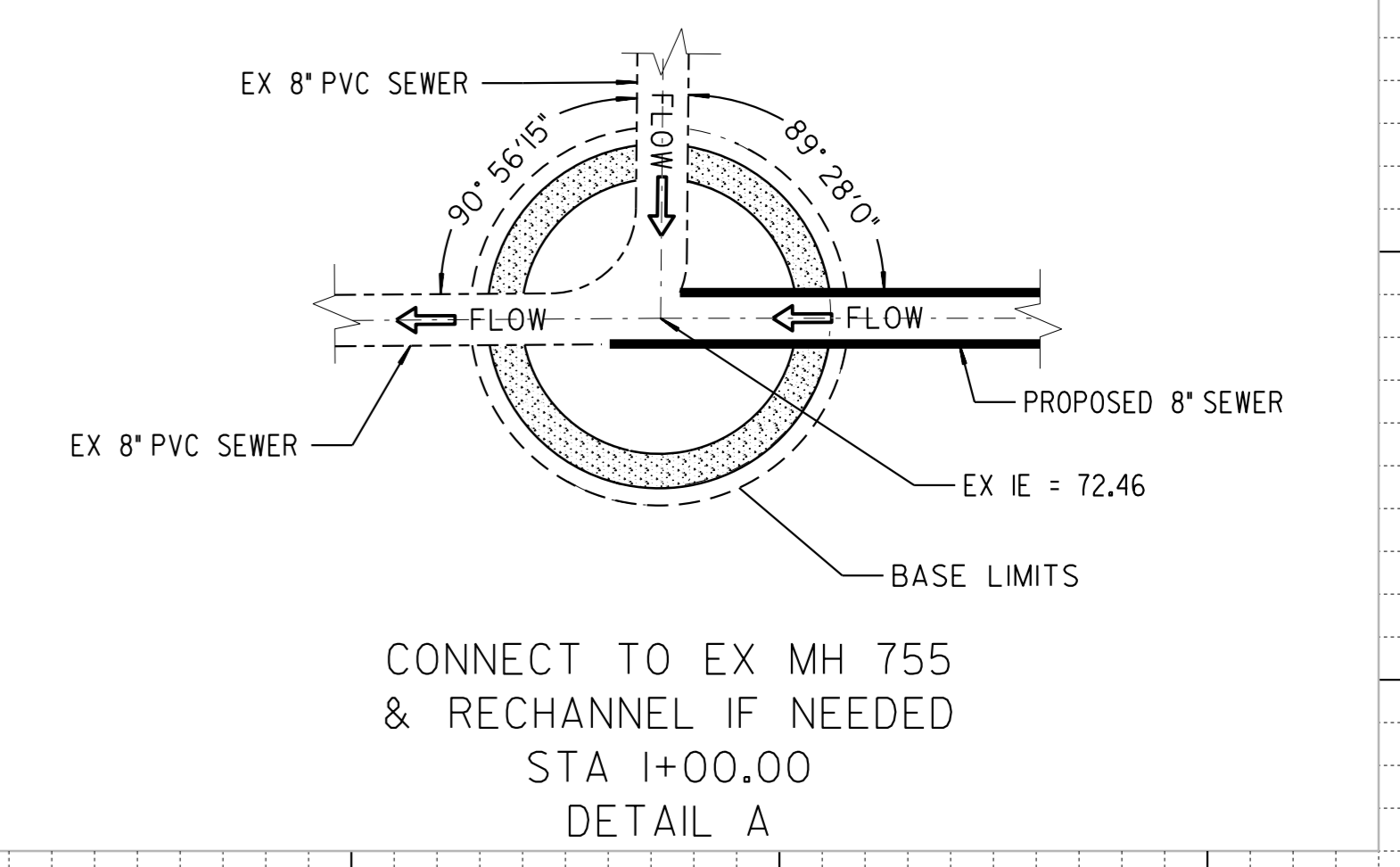
AC WATER & SEWER GROUP 1052  
NEWTON AVENUE  
S 44TH STREET TO W/O S 44TH STREET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 33 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER DATE 10/26/2021 PRINT NAME: JANICE JARO PROJECT NO. C70770	PROJECT MANAGER AMY MILLS PROJECT ENGINEER JING DEBELISO	NO. C70770 CIVIL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
		DATE 10/26/21
		FILMED
190-1737 CCS27 COORDINATE		1830-6297 CCS83 COORDINATE
CONTRACTOR INSPECTOR		NTP DATE NOC DATE 41338-33-D

NEWTON AVENUE

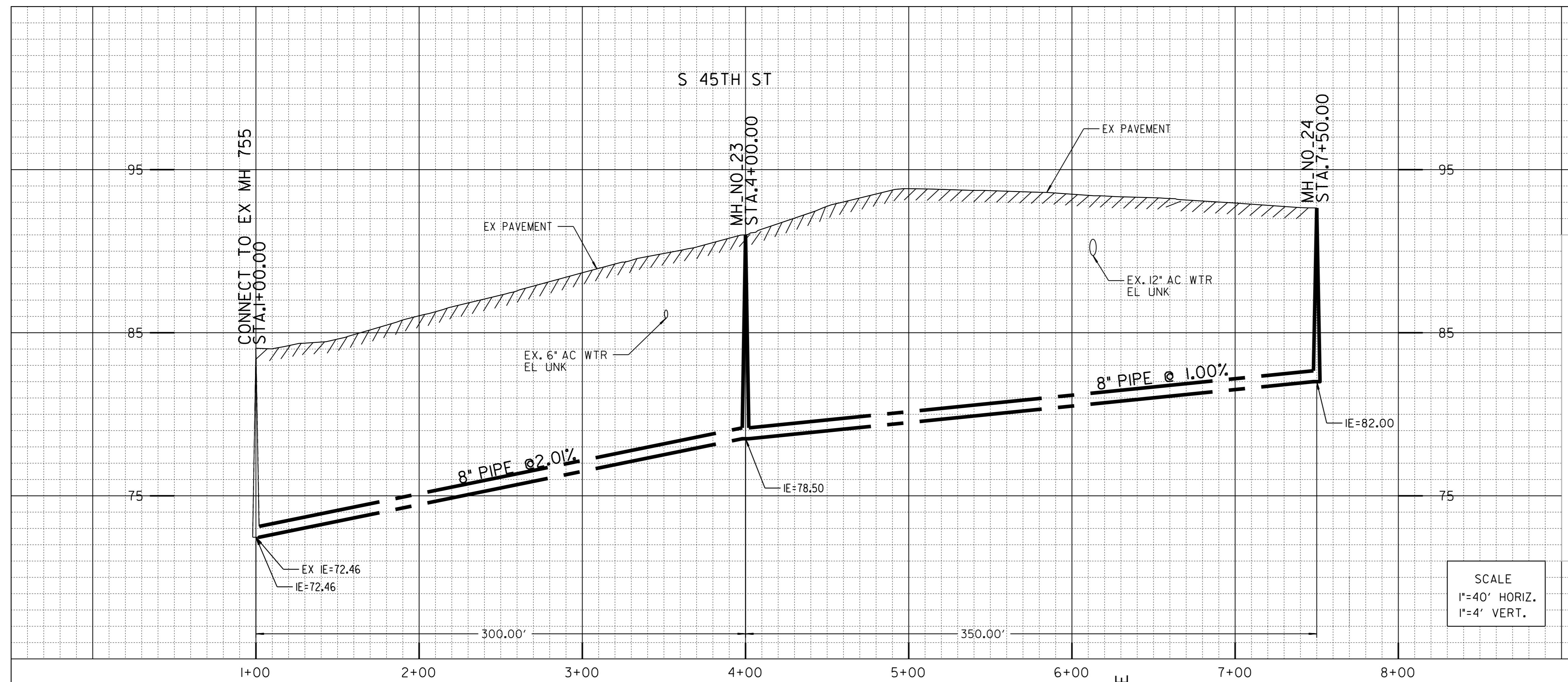
C-30

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 7+50.00	650.00
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00.00	STA. 7+50.00	650.00
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.		



ALIGNMENT: SHEET 34

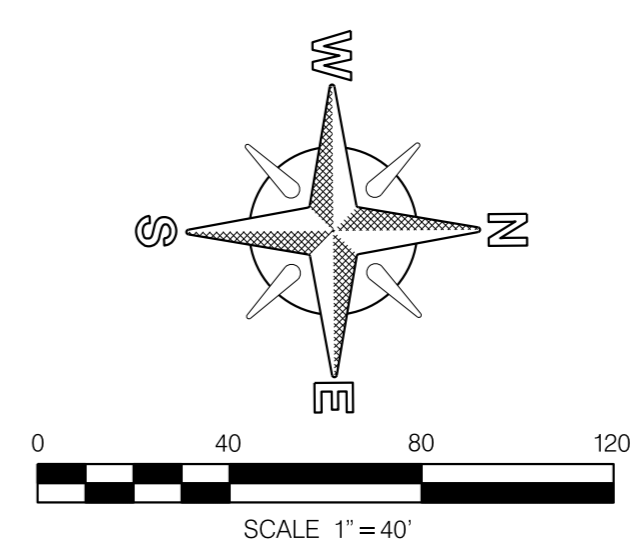
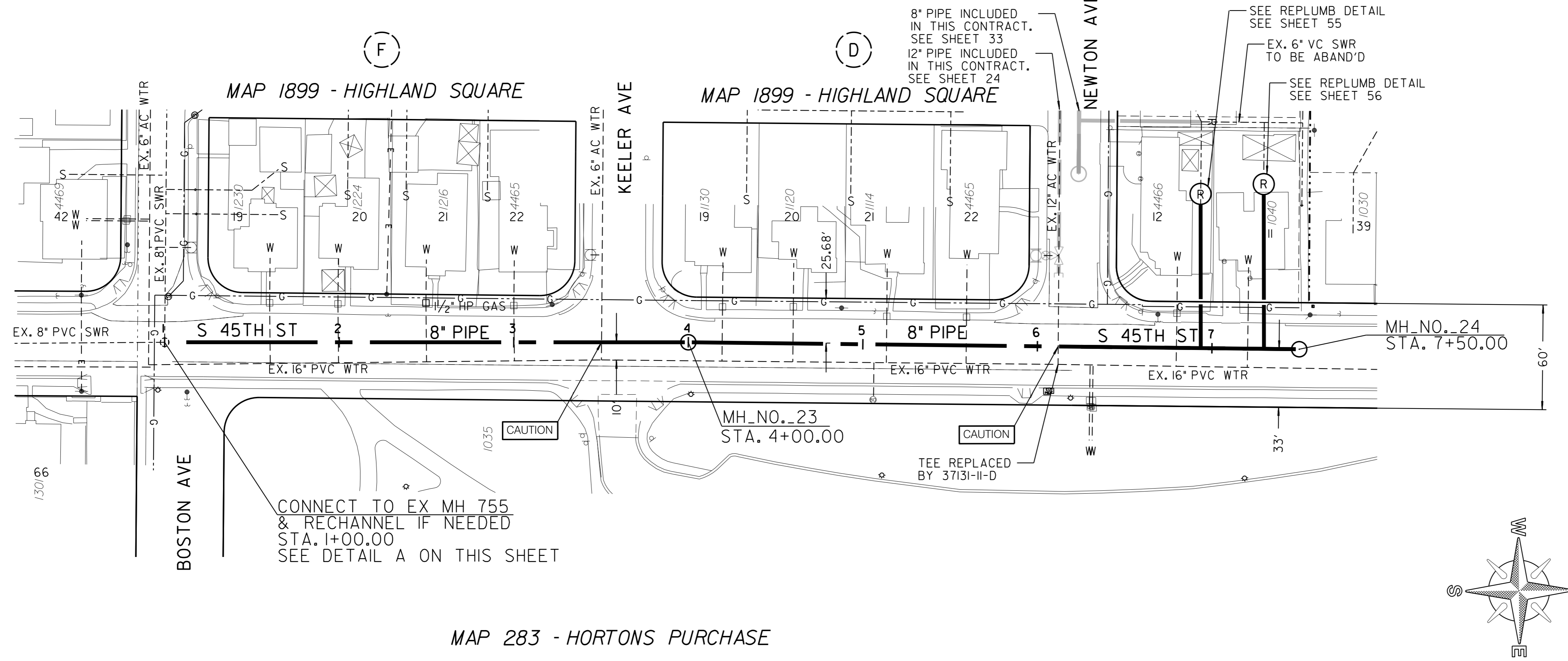
POINT STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1833068.71	6300735.13	STRAIGHT	N 0°27'58" E D = 300.00
P1	4+00.00	1833368.70	6300737.57	STRAIGHT	N 1°07'10" E D = 350.00
POE	7+50.00	1833718.63	6300744.41		



SCALE  
1"=40' HORIZ.  
1"=4' VERT.

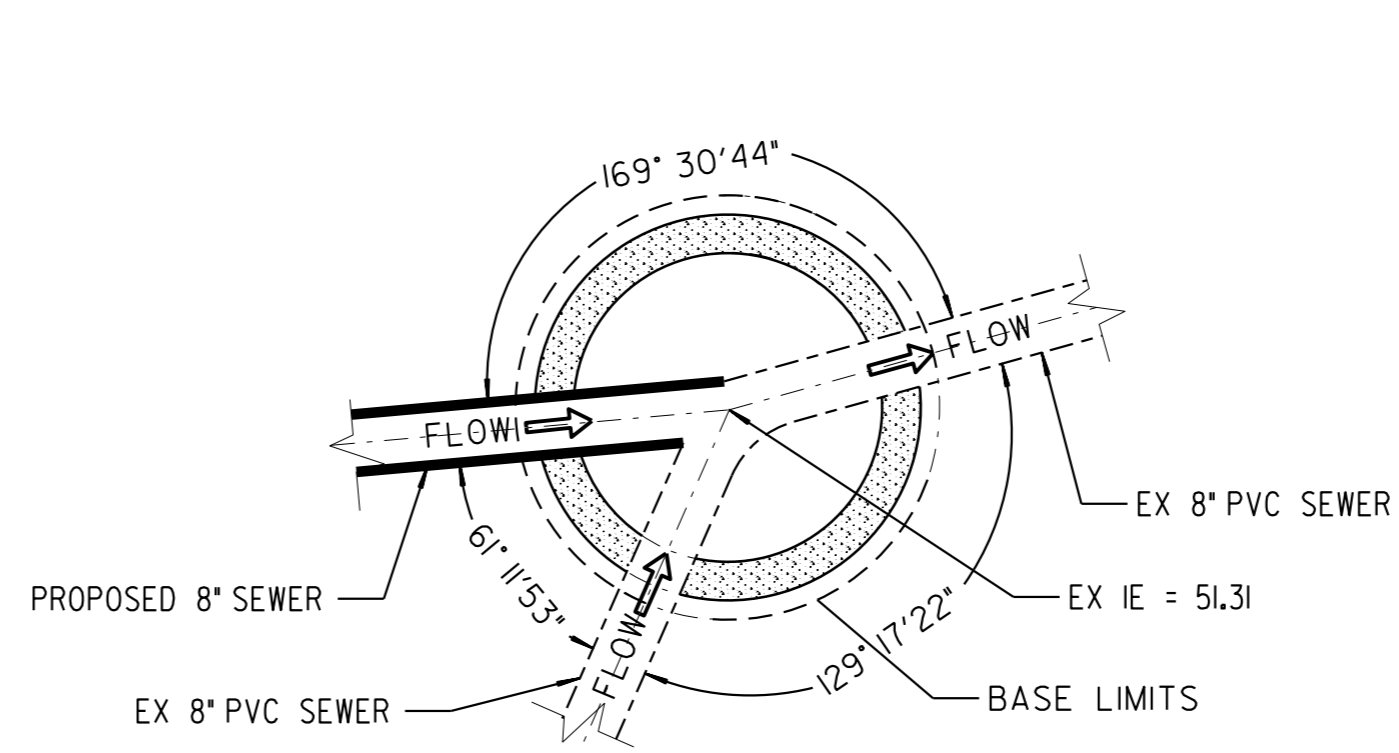
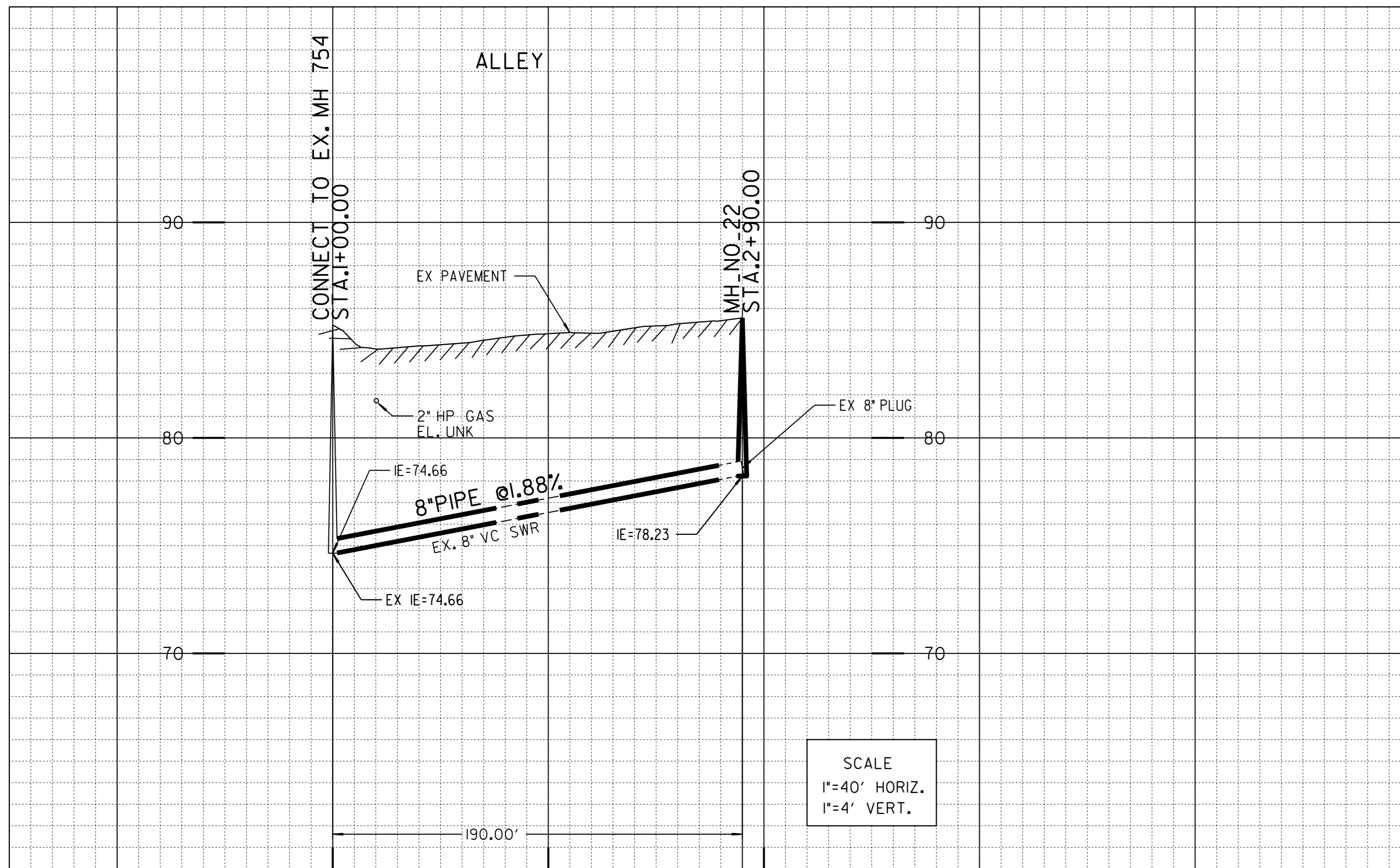
REFERENCE:  
WATER: 13956-9-D, 11884-9-D, 3796-3-W, 37131-II-D  
SEWER: 32260-13-D  
STORM DRAIN:  
GAS: 16095-118675, 16095-118680  
ELECTRIC:  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: J245  
THOMAS BROS.: 1289J6  
HGL:

RETIREMENTS:  
MH - 4X3 - 1 - 2006

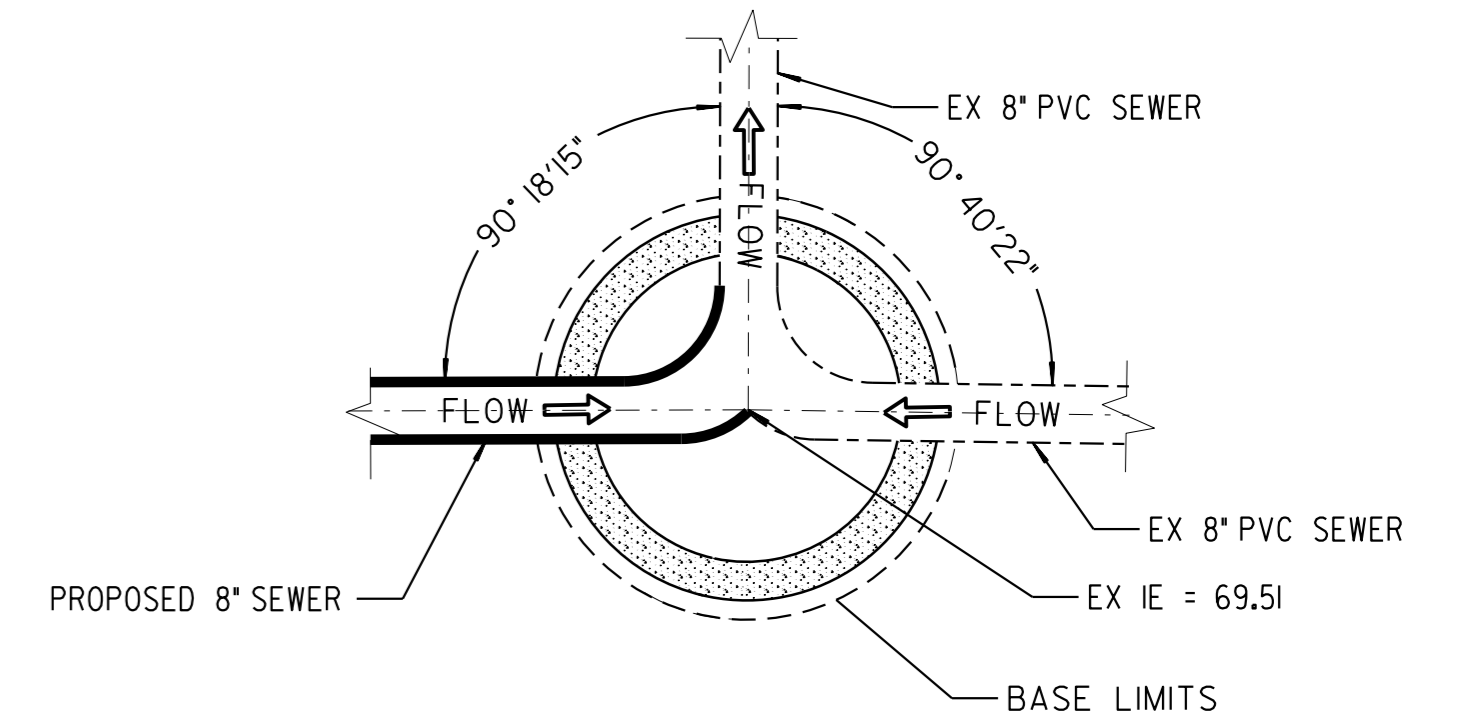


AC WATER & SEWER GROUP 1052 S 45TH STREET BOSTON AVENUE TO NEWTON AVENUE		WATER WBS B-18092 SEWER WBS B-18096
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 34 OF 56 SHEETS		APPROVED BY: AMY MILLS DATE: 10/26/2021 PROJECT MANAGER
FOR CITY ENGINEER: JANICE JARO PRINT DCSE NAME: JANICE JARO RCE# C70770		CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JD/DW	10/26/21
SEE SHEETS CCS27 COORDINATE		SEE SHEETS CCS83 COORDINATE
CONTRACTOR		NTP DATE
INSPECTOR		NOC DATE
		41338-34-D

S 45TH STREET



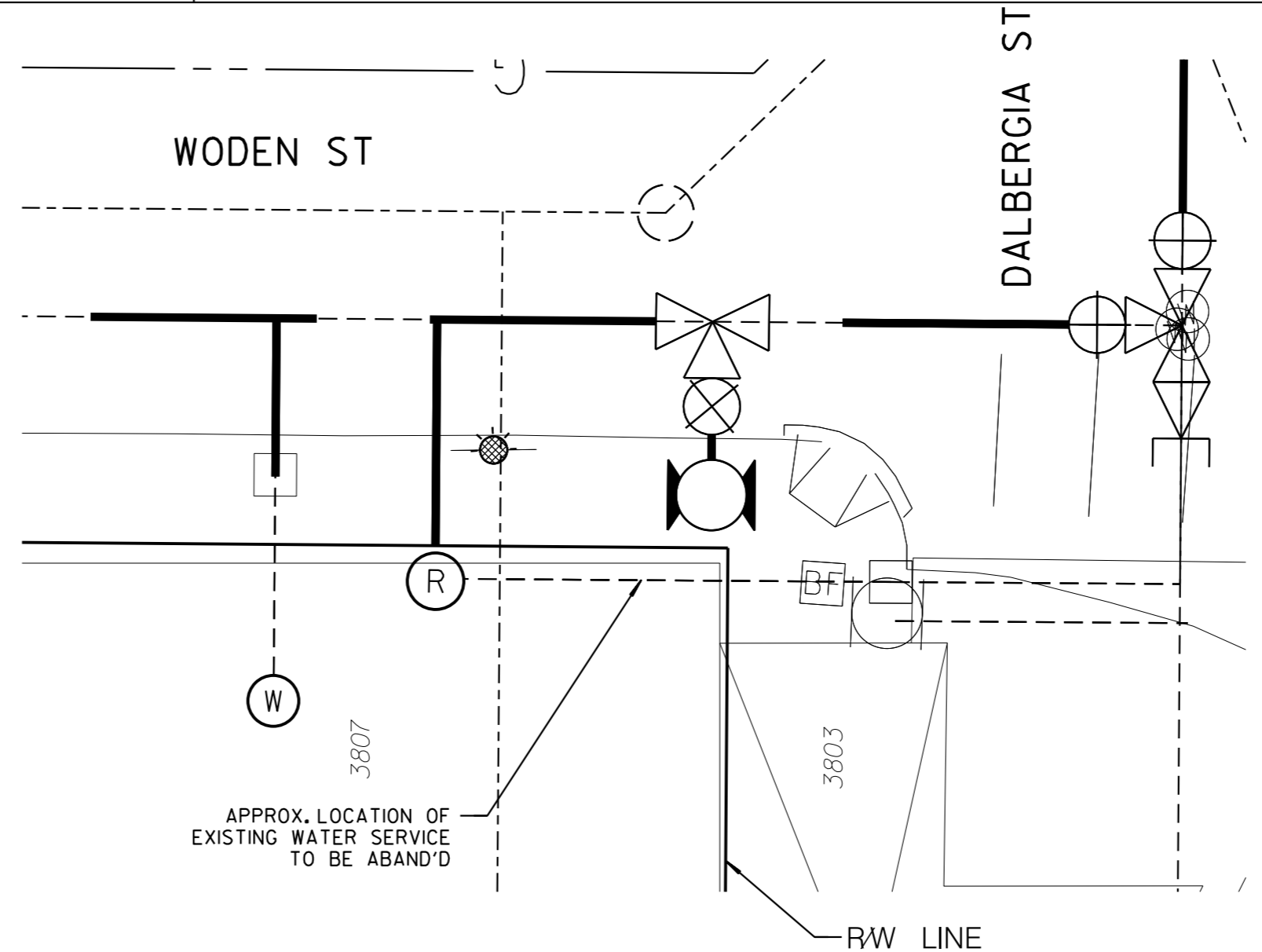
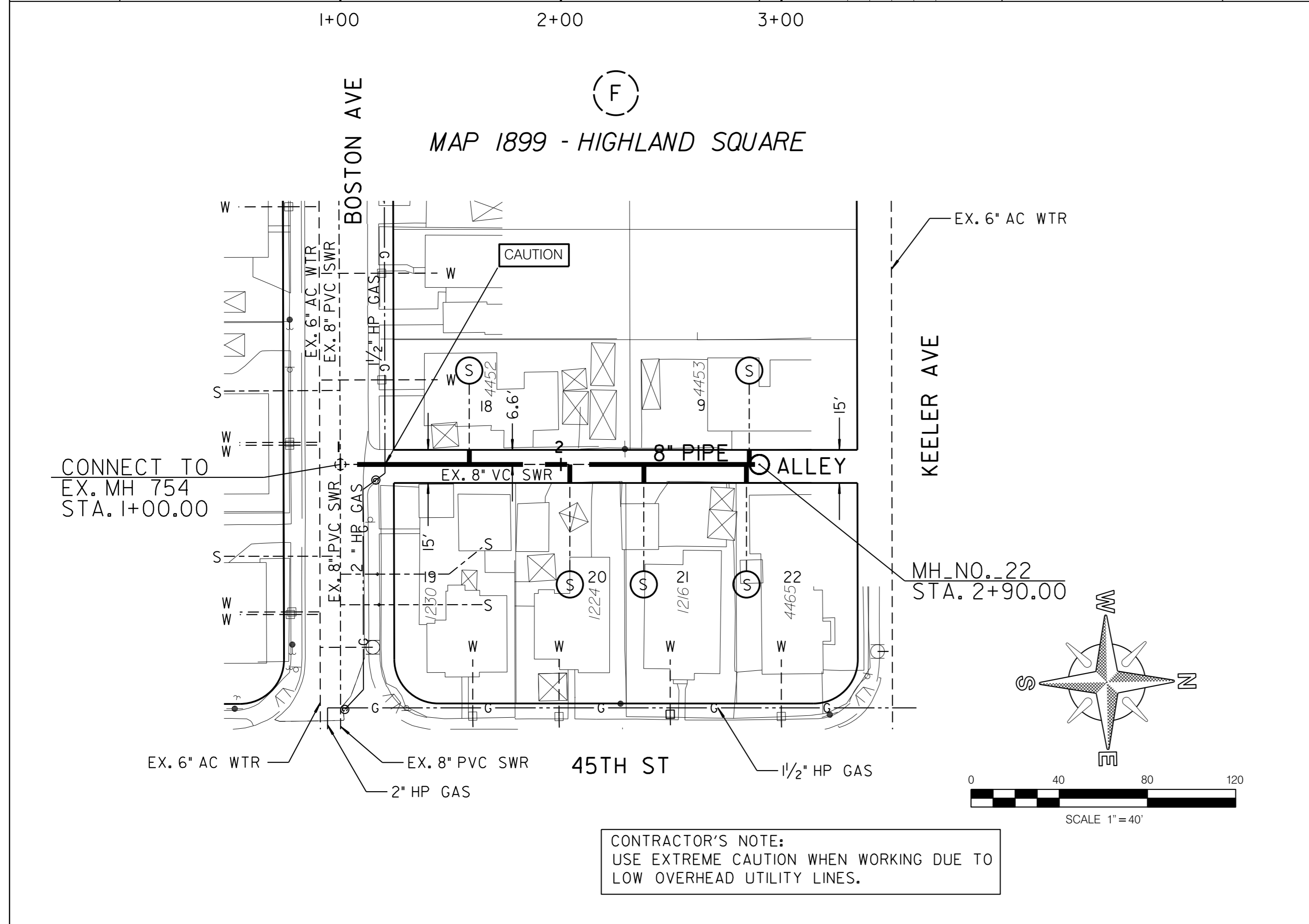
CONNECT TO EX MH  
& RECHANNEL IF NEEDED  
STA 2+50.08  
SEE SHT 32, PLAN A  
DETAIL A



CONNECT TO EX MH 74  
& RECHANNEL IF NEEDED  
STA 3+88.94  
SEE SHT 32, PLAN B  
DETAIL B

ALIGNMENT: SHEET 35

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DI ST/LENGTH
POB	1+00.00	1833071.09	6300597.85	STRAIGHT	N 1°02'28" E	D = 190.00
POE	2+90.00	1833261.07	6300601.3			



- LEGEND:**
- PROPOSED WATER MAIN ————
  - WATER SERVICE REPLUMB ———— (R)
  - EXISTING WATER MAIN - - - - -
  - EXISTING WATER SERVICE - - - - -



### WATER SERVICE REPLUMB WORK

ADDRESS: 3807 DALBERGIA ST.  
SEE SHEET NO. 20, PLAN B

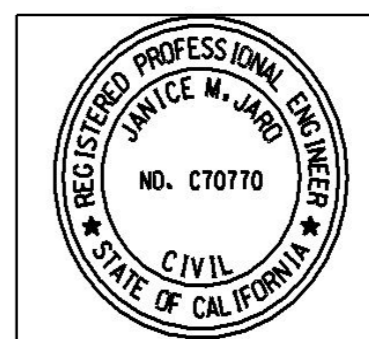
**REFERENCE:**  
WATER: 10144-6-D  
SEWER: 11629-1-D, 32260-13-D  
STORM DRAIN:  
GAS: 16095-118675  
ELECTRIC: 16095-118675  
CABLE TV:  
TELEPHONE:  
IMPROVEMENTS:  
100' SCALE/FIELD BOOK: J245  
THOMAS BROS.: 1289J6  
HGL:

**RETIREMENTS:**  
8" - VITRIFIED CLAY - 190' - 1964  
PLUG - UNK - UNK  
4" LATERAL - 5 - UNK - UNK

C-32

AC WATER & SEWER GROUP 1052  
ALLEY BLK F  
BOSTON AVENUE TO SO KEELER AVENUE

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 35 OF 56 SHEETS

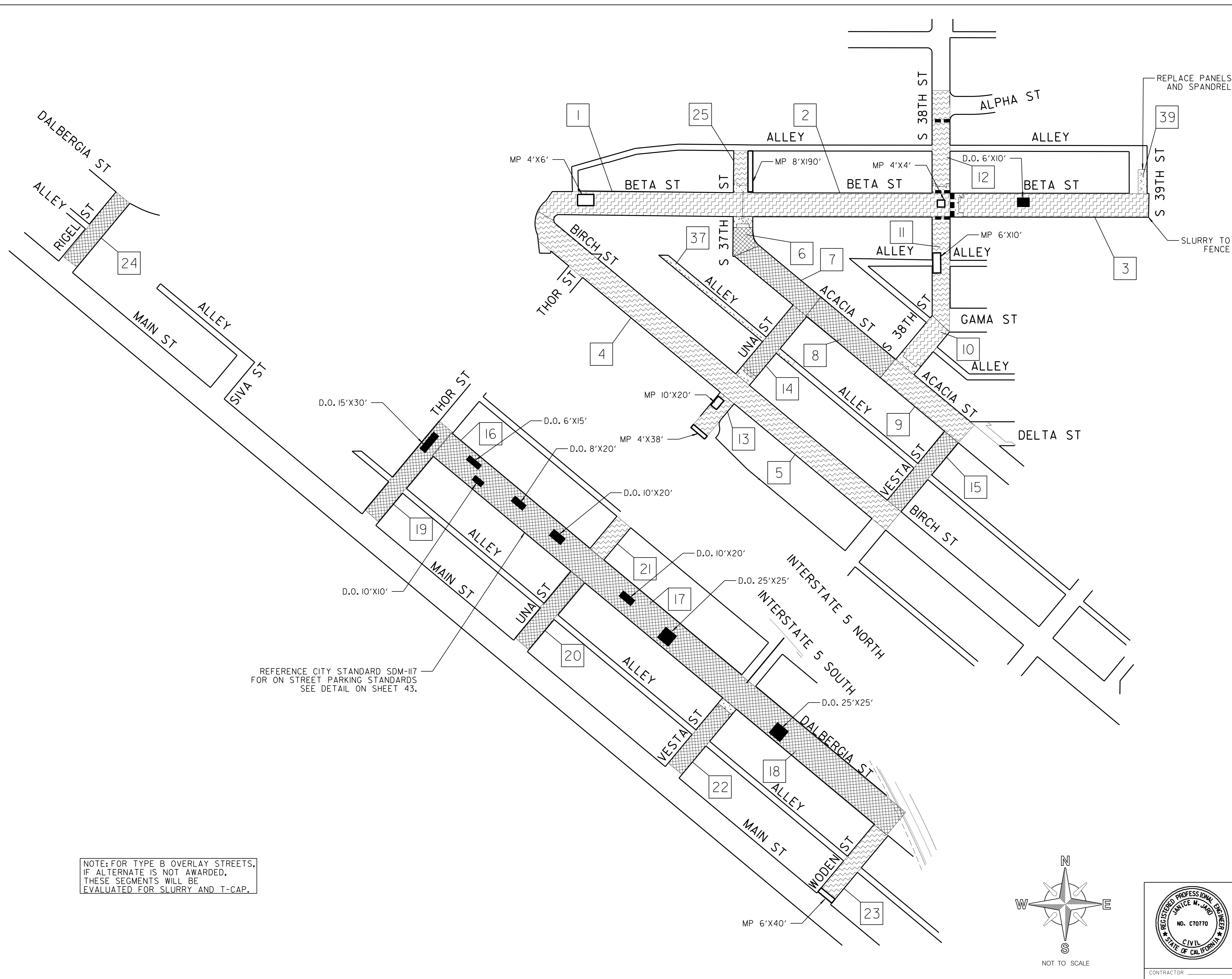


APPROVED: <i>[Signature]</i>	DATE: 10/26/2021	SUBMITTED BY: AMY MILLS
FOR CITY ENGINEER: JANICE JARO	DATE: C70770	PROJECT MANAGER
PRINT DCE NAME: JANICE JARO	RCE#:	CHECKED BY: JING DEBELISO
DESCRIPTION: ORIGINAL	BY: [Signature]	DATE: 10/26/21
APPROVED: [Signature]	DATE: 10/26/21	FILMED: [Signature]
PROJECT NO.:	190-1737	PROJECT ENGINEER
COORDINATE:	1830-6297	CCS27 COORDINATE
COORDINATE:	41338-35-D	CCS83 COORDINATE

ALLEY BLK F

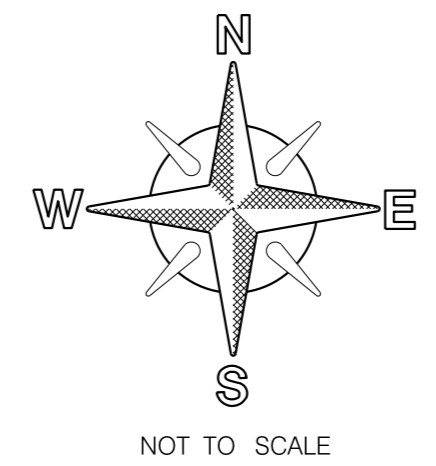
LEGEND	
	APPROX. LIMITS OF SLURRY SEAL TYPE I OVER TYPE II
	TYPE B OVERLAY (2 INCH) PER SDG-106*
	APPROX. LIMITS OF CONCRETE PAVEMENT REPLACEMENT
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
	EXISTING CROSS GUTTER
	MILL PAVE (2 INCH)*
	DIG OUT*
	APPROX. LOCATION OF CONTINENTAL CROSSWALK

\*TYPE B OVERLAY (2 INCH), MILL PAVE (2 INCH), AND DIG OUT ONLY INCLUDED IF ALTERNATE D IS AWARDED. IF ALTERNATE D IS NOT AWARDED, CONTRACTOR TO VERIFY WITH THE ENGINEER FOR NECESSARY RESURFACING TREATMENT.



REFERENCE CITY STANDARD SDM-117 FOR ON STREET PARKING STANDARDS SEE DETAIL ON SHEET 43.

NOTE: FOR TYPE B OVERLAY STREETS, IF ALTERNATE IS NOT AWARDED, THESE SEGMENTS WILL BE EVALUATED FOR SLURRY AND T-CAP.



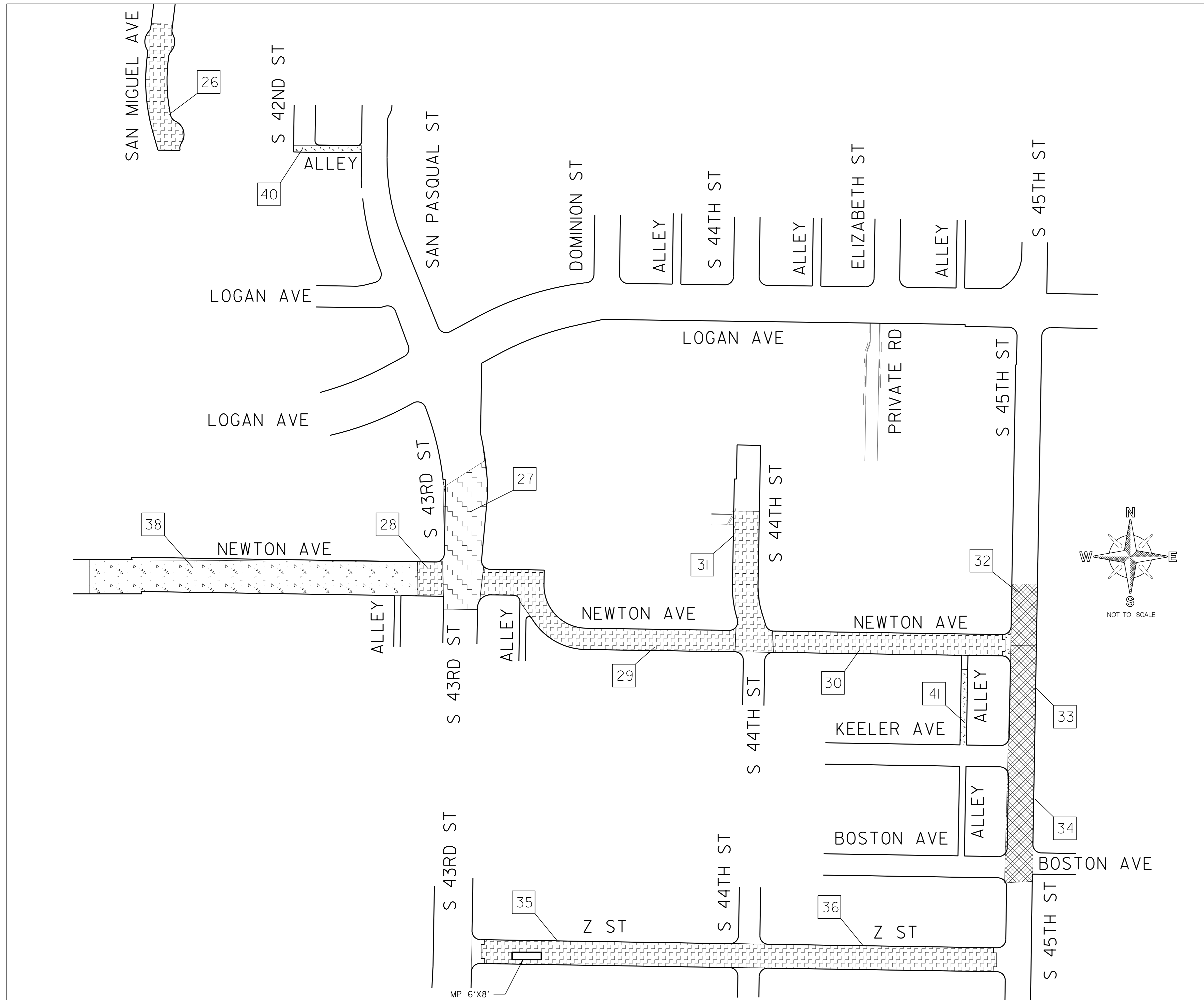
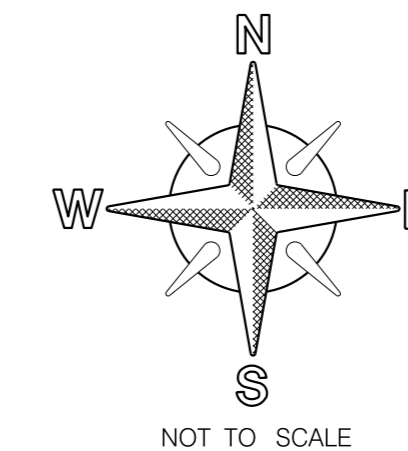
C-33

AC WATER & SEWER GROUP 1052 STREET RESURFACING				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 36 OF 56 SHEETS				
WATER WBS B-18092 SEWER WBS B-18096	APPROVED:  DATE 11/17/2021 FOR CITY ENGINEER JANICE JARO PROJECT MANAGER PRINT NAME: JANICE JARO RCE# C70770 PROJECT ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW		11/17/21	
CONTRACTOR				NTP DATE
INSPECTOR				NOC DATE
				41338-36-D



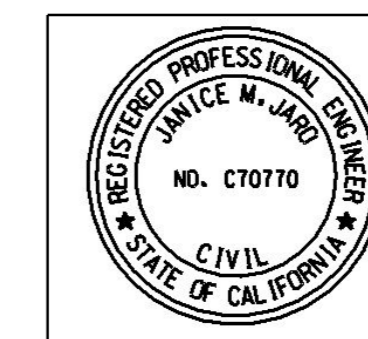
LEGEND	
	APPROX. LIMITS OF SLURRY SEAL TYPE I OVER TYPE II
	APPROX. LIMITS OF SLURRY SEAL TYPE II OVER TYPE III
	TYPE B OVERLAY (2 INCH) PER SDG-106•
	APPROX. LIMITS OF CONCRETE PAVEMENT REPLACEMENT
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
	EXISTING CROSS GUTTER
	MILL PAVE (2 INCH)•
	DIG OUT•

•TYPE B OVERLAY (2 INCH), MILL PAVE (2 INCH), AND DIG OUT ONLY INCLUDED IF ALTERNATE D IS AWARDED. IF ALTERNATE D IS NOT AWARDED, CONTRACTOR TO VERIFY WITH THE ENGINEER FOR NECESSARY RESURFACING TREATMENT.



C-34

AC WATER & SEWER GROUP 1052 STREET RESURFACING	
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 37 OF 56 SHEETS	
WATER WBS B-18092 SEWER WBS B-18096	APPROVED: <i>[Signature]</i> 11/17/2021 FOR CITY ENGINEER DATE PRINT NAME: JANICE JARO RCE# C70770
DESIGNED BY: JING DEBELISO PROJECT ENGINEER	SUBMITTED BY: AMY MILLS PROJECT MANAGER
DESCRIPTION ORIGINAL	BY: JD/DW
APPROVED: <i>[Signature]</i>	DATE: 11/17/21
FILED	
SEE SHEETS CCS27 COORDINATE	SEE SHEETS CCS83 COORDINATE
41338-37-D	



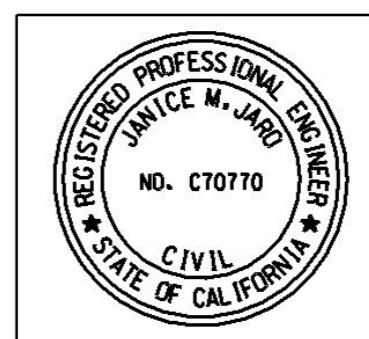
CONTRACTOR \_\_\_\_\_  
INSPECTOR \_\_\_\_\_

NTP DATE \_\_\_\_\_  
NOC DATE \_\_\_\_\_

PAVING SCHEDULE NOTES								PAVING SCHEDULE NOTES							
NO.	LOCATION	STREET SEGMENT ID	OCI	RESTORATION REQUIRED	LENGTH (FT)	WIDTH (FT)	APPROX. AREA (SF)	NO.	LOCATION	STREET SEGMENT ID	OCI	RESTORATION REQUIRED	LENGTH (FT)	WIDTH (FT)	APPROX. AREA (SF)
1	BETA ST BETWEEN STREET BIRCH ST AND S 37TH ST	SS-004157	74.044	SLURRY SEAL TYPE I OVER II	677	36	24,372	27	S 43RD ST BETWEEN NATIONAL AVE AND NEWTON AVE	SS-029515	82.512	SLURRY SEAL TYPE II OVER III	410	56	22,960
2	BETA ST BETWEEN S 37TH ST AND S 38TH ST	SS-004153	91.33	SLURRY SEAL TYPE I OVER II	663	36	23,868	28	NEWTON AVE BETWEEN BEGIN AND S 43RD ST	SS-019882	54.03	SLURRY SEAL TYPE I OVER II	50	48	2,400
3	BETA ST BETWEEN S 38TH ST NAME AND S 39TH ST	SS-004152	89.5	SLURRY SEAL TYPE I OVER II	663	36	23,868	29	NEWTON AVE BETWEEN S 43RD ST AND S 44TH ST	SS-019883	94.8	SLURRY SEAL TYPE I OVER II	733	30	21,990
4	BIRCH ST BETWEEN BETA ST AND UNA ST	SS-004257	79.742	SLURRY SEAL TYPE I OVER II	876	52	45,552	30	NEWTON AVE BETWEEN S 44TH ST AND S 45TH ST	SS-019884	68.57	SLURRY SEAL TYPE I OVER II	641	30	19,230
5	BIRCH ST BETWEEN UNA ST AND VESTA ST	SS-004258	85.296	SLURRY SEAL TYPE I OVER II	664	52	34,528	31	S 44TH ST BETWEEN BEGIN AND NEWTON AVE	SS-029525	87.508	SLURRY SEAL TYPE I OVER II	290	30	8,700
6	S 37TH ST BETWEEN BETA ST AND ACACIA ST	SS-029421	56.64	TYPE B OVERLAY (2 INCH) PER SDG-106	162	40	6,480	32	S 45TH ST BETWEEN LOGAN AVE AND NEWTON AVE	SS-029539	83.772	TYPE B OVERLAY (2 INCH) PER SDG-106	115	36	4,140
7	ACACIA ST BETWEEN S 37TH ST AND UNA ST	SS-001637	61.47	TYPE B OVERLAY (2 INCH) PER SDG-106	247	40	9,880	33	S 45TH ST BETWEEN NEWTON AVE AND KEELER AVE	SS-029534	82.88	TYPE B OVERLAY (2 INCH) PER SDG-106	262	38	9,956
8	ACACIA ST BETWEEN UNA ST AND S 38TH ST	SS-001638	81.014	TYPE B OVERLAY (2 INCH) PER SDG-106	399.5	52	20,774	34	S 45TH ST BETWEEN KEELER AVE AND BOSTON AVE	SS-029535	81.442	TYPE B OVERLAY (2 INCH) PER SDG-106	287	38	10,906
9	ACACIA ST BETWEEN S 38TH ST AND DELTA ST	SS-001639	93.67	SLURRY SEAL TYPE I OVER II	299	52	15,548	35	Z ST BETWEEN S 43RD ST AND S 44TH ST	SS-029187	94.09	SLURRY SEAL TYPE I OVER II	675	56	37,800
10	S 38TH ST BETWEEN GAMMA ST AND ACACIA ST	SS-029452	74.332	SLURRY SEAL TYPE I OVER II	259	52	13,468	36	Z ST BETWEEN S 44TH ST AND S 45TH ST	SS-029188	86.78	SLURRY SEAL TYPE I OVER II	580	56	32,480
11	S 38TH ST BETWEEN BETA ST AND GAMMA ST	SS-029451	75.746	SLURRY SEAL TYPE I OVER II	361	40	14,440	37	ALLEY BETWEEN BEGIN AND E/O UNA ST	SA-000582	90.93	CONCRETE PAVEMENT	575	30	17,250
12	S 38TH ST BETWEEN ALPHA ST AND BETA ST	SS-029450	80	SLURRY SEAL TYPE I OVER II	336	40	13,440	38	NEWTON AVE BETWEEN BEGIN AND S 43RD ST	SS-019882	54.03	CONCRETE PAVEMENT	670	48	32,160
13	UNA ST BETWEEN BIRCH ST AND END	SS-027079	95	SLURRY SEAL TYPE I OVER II	180	40	7,200	39	BETA ST ALLEY BETA ST AND ALLEY	N/A	N/A	CONCRETE PAVEMENT	100	18	1,800
14	UNA ST ACACIA ST AND BIRCH ST	SS-027081	31.75	TYPE B OVERLAY (2 INCH) PER SDG-106	384	40	15,360	40	ALLEY 42ND ST AND SAN PASOVAL ST	N/A	N/A	CONCRETE PAVEMENT	160	30	4,800
15	VESTA ST BETWEEN ACACIA ST AND BIRCH ST	SS-027536	70.35	TYPE B OVERLAY (2 INCH) PER SDG-106	393	40	15,720	41	ALLEY BOSTON AVE AND KEELER AVE	SA-002780	89.25	CONCRETE PAVEMENT	175	30	5,250
16	DALBERGIA ST BETWEEN THOR ST AND UNA ST	SS-008606	46.86	TYPE B OVERLAY (2 INCH) PER SDG-106	659	68	44,812		8 Cross Gutters in Various LOCATIONS			CROSS GUTTER			1,390
17	DALBERGIA ST BETWEEN UNA ST AND VESTA ST	SS-008607	79.71	TYPE B OVERLAY (2 INCH) PER SDG-106	664	68	45,152								
18	DALBERGIA ST BETWEEN VESTA ST AND WODEN ST	SS-008608	87.556	TYPE B OVERLAY (2 INCH) PER SDG-106	657	68	44,676								
19	THOR ST BETWEEN DALBERGIA ST AND MAIN ST	SS-026406	60.5	TYPE B OVERLAY (2 INCH) PER SDG-106	393	40	15,720								
20	UNA ST BETWEEN DALBERGIA ST AND MAIN ST	SS-027082	28.19	TYPE B OVERLAY (2 INCH) PER SDG-106	387	40	15,480								
21	UNA ST BETWEEN BEGIN AND DALBERGIA ST	SS-027080	88.5	SLURRY SEAL TYPE I OVER II	204	40	8,160								
22	VESTA ST BETWEEN DALBERGIA ST AND MAIN ST	SS-027538	73.532	TYPE B OVERLAY (2 INCH) PER SDG-106	391	40	15,640								
23	WODEN ST BETWEEN DALBERGIA ST AND MAIN ST	SS-029040	94	SLURRY SEAL TYPE I OVER II	392	40	15,680								
24	RIGEL ST BETWEEN ACACIA ST AND MAIN ST	SS-023202	69.656	TYPE B OVERLAY (2 INCH) PER SDG-106	120	40	4,800								
25	S 37TH ST BETWEEN BEGIN AND BETA ST	SS-031268	88	SLURRY SEAL TYPE I OVER II	191	35	6,685								
26	SAN MIGUEL AVE BETWEEN STREET NAME AND LIMIT LINE	SS-024122	84.04	SLURRY SEAL TYPE I OVER II	320	36	11,520								

TOTAL AREA OF SLURRY SEAL TYPE I OVER TYPE II	380,929 SF
TOTAL AREA OF SLURRY SEAL TYPE II OVER TYPE III	22,960 SF
TOTAL AREA OF TYPE B OVERLAY (2 INCH) PER SDG-106*	279,496 SF
TOTAL AREA OF CONCRETE PAVEMENT	62,650 SF

\*TYPE B OVERLAY (2 INCH), MILL PAVE (2 INCH), AND DIG OUT ONLY INCLUDED IF ALTERNATE D IS AWARDED. IF ALTERNATE D IS NOT AWARDED, CONTRACTOR TO VERIFY WITH THE ENGINEER FOR NECESSARY RESURFACING TREATMENT.

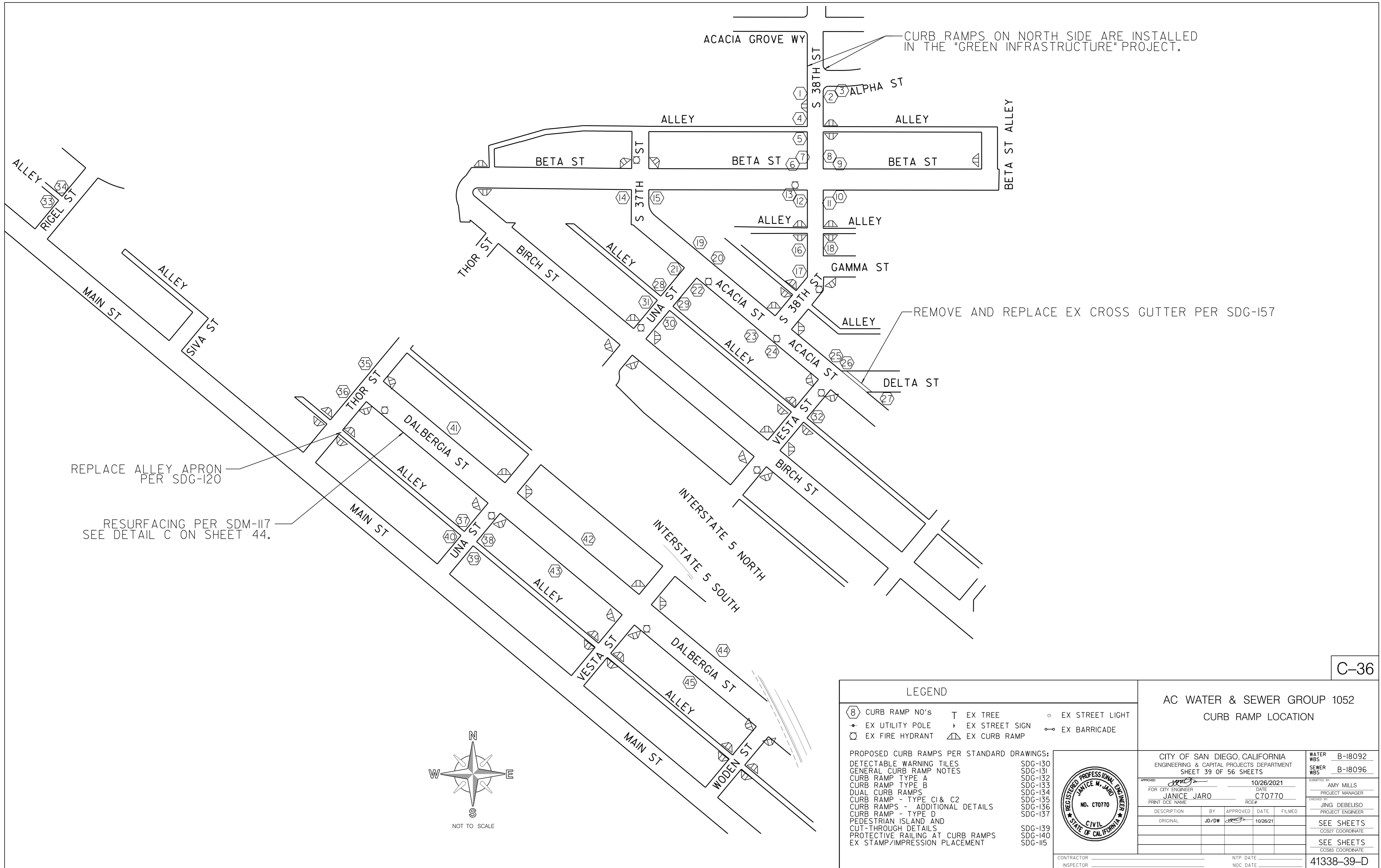


**AC WATER & SEWER GROUP 1052  
STREET RESURFACING**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 38 OF 56 SHEETS		WATER WBS B-18092	SEWER WBS B-18096
APPROVED BY: <i>J. Jaro</i>	DATE: 11/17/2021	SUBMITTED BY: AMY MILLS PROJECT MANAGER	
FOR CITY ENGINEER: JANICE JARO	DATE: C70770	CHECKED BY: JING DEBELISO PROJECT ENGINEER	
PRINTED NAME: JANICE JARO	DATE: 11/17/21	SEE SHEETS CCS27 COORDINATE	
DESCRIPTION: ORIGINAL	BY: JD/DW	APPROVED: <i>J. Jaro</i>	DATE: 11/17/21
		SEE SHEETS CCS83 COORDINATE	
CONTRACTOR: _____		NTP DATE: _____	
INSPECTOR: _____		NOC DATE: _____	

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STREET RESURFACING



REPLACE ALLEY APRON  
PER SDG-I20

RESURFACING PER SDM-I17  
SEE DETAIL C ON SHEET 44.

CURB RAMPS ON NORTH SIDE ARE INSTALLED  
IN THE "GREEN INFRASTRUCTURE" PROJECT.

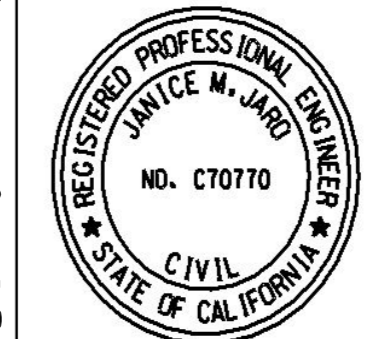
REMOVE AND REPLACE EX CROSS GUTTER PER SDG-I57

C-36

LEGEND	
Ⓢ CURB RAMP NO's	⊥ EX TREE
⊙ EX UTILITY POLE	⊙ EX STREET LIGHT
⊕ EX FIRE HYDRANT	⊙ EX STREET SIGN
⊕ EX CURB RAMP	⊙ EX BARRICADE

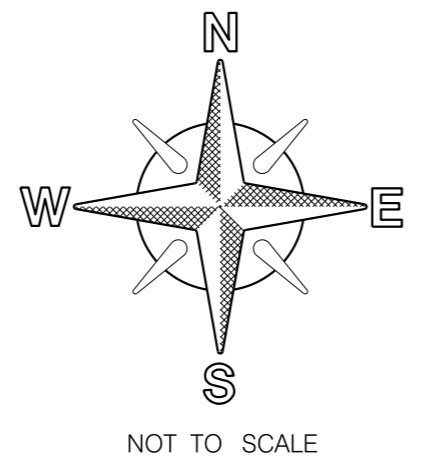
  

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:	
DETECTABLE WARNING TILES	SDG-130
GENERAL CURB RAMP NOTES	SDG-131
CURB RAMP TYPE A	SDG-132
CURB RAMP TYPE B	SDG-133
DUAL CURB RAMPS	SDG-134
CURB RAMP - TYPE CI & C2	SDG-135
CURB RAMPS - ADDITIONAL DETAILS	SDG-136
CURB RAMP - TYPE D	SDG-137
PEDESTRIAN ISLAND AND CUT-THROUGH DETAILS	SDG-139
PROTECTIVE RAILING AT CURB RAMPS	SDG-140
EX STAMP/IMPRESSION PLACEMENT	SDG-I15

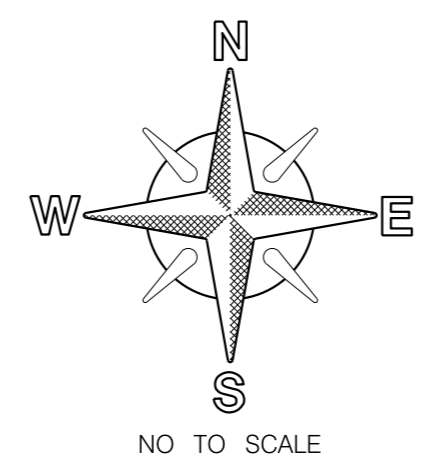
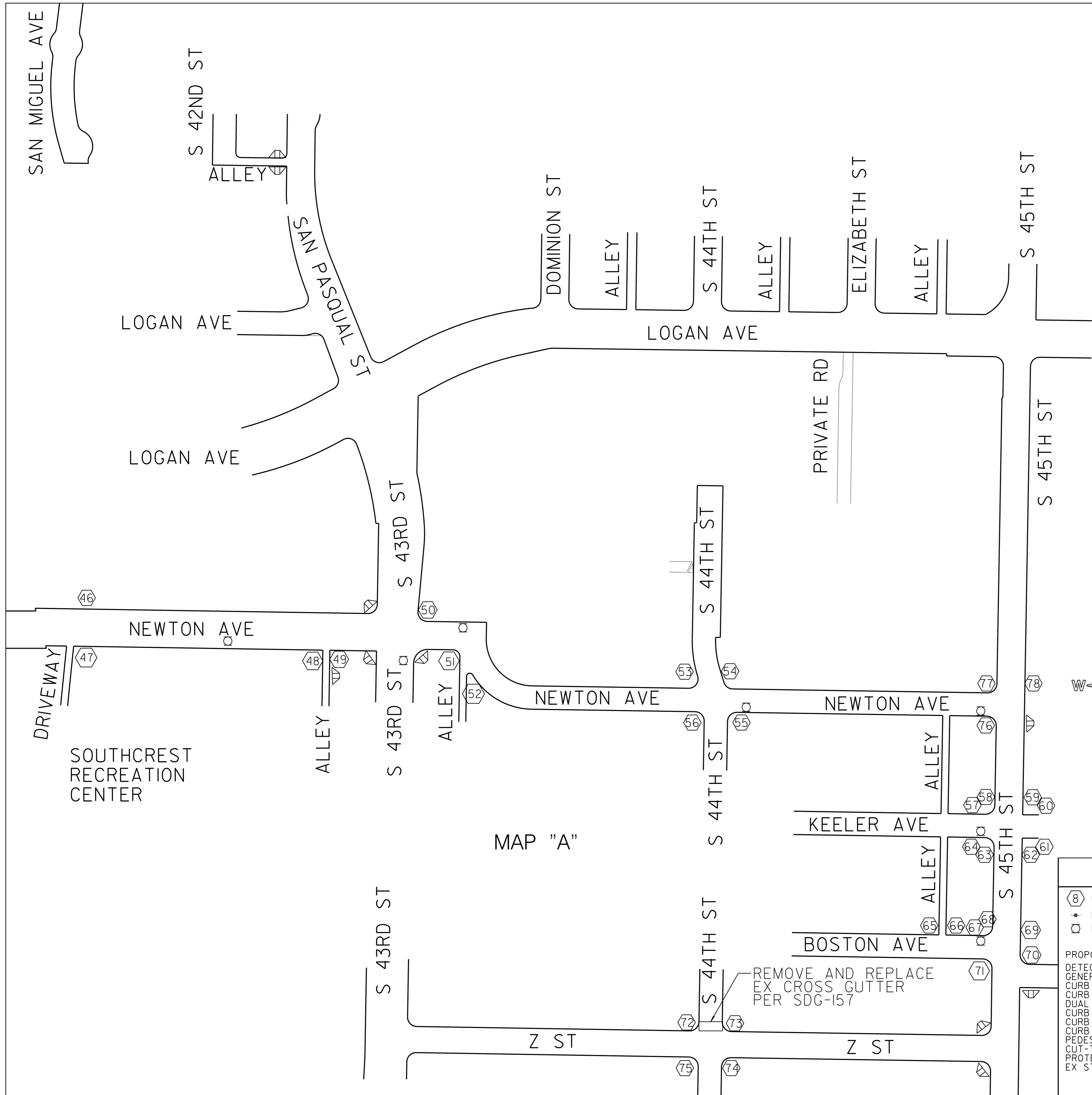


AC WATER & SEWER GROUP 1052  
CURB RAMP LOCATION

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 39 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT NAME: JANICE JARO	DATE: 10/26/2021 PROJECT NO: C70770	DRAWN BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION	BY	APPROVED DATE
ORIGINAL	JD/DW	10/26/21
SEE SHEETS CCS27 COORDINATE		SEE SHEETS CCS83 COORDINATE
CONTRACTOR		NTP DATE
INSPECTOR		NOC DATE
41338-39-D		



CURB RAMP LOCATION

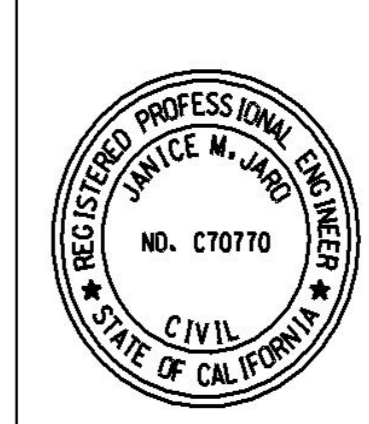


REMOVE AND REPLACE EX CROSS GUTTER PER SDG-157

LEGEND	
(8) CURB RAMP NO's	T EX TREE
• EX UTILITY POLE	† EX STREET SIGN
□ EX FIRE HYDRANT	△ EX CURB RAMP
○ EX STREET LIGHT	⊕ EX BARRICADE

PROPOSED CURB RAMP PER STANDARD DRAWINGS:	
DETECTABLE WARNING TILES	SDG-130
GENERAL CURB RAMP NOTES	SDG-131
CURB RAMP TYPE A	SDG-132
CURB RAMP TYPE B	SDG-133
DUAL CURB RAMP	SDG-134
CURB RAMP - TYPE C1 & C2	SDG-135
CURB RAMP - ADDITIONAL DETAILS	SDG-136
CURB RAMP - TYPE D	SDG-137
PEDESTRIAN ISLAND AND CUT-THROUGH DETAILS	SDG-139
PROTECTIVE RAILING AT CURB RAMP	SDG-140
EX STAMP/IMPRESSION PLACEMENT	SDG-115



AC WATER & SEWER GROUP 1052 CURB RAMP LOCATION		WATER WBS B-18092 SEWER WBS B-18096
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 40 OF 56 SHEETS		DATE 10/26/2021
APPROVED: <i>[Signature]</i>	DATE 10/26/2021	PROJECT MANAGER AMY MILLS
FOR CITY ENGINEER	DATE 10/26/2021	PROJECT ENGINEER JING DEBELISO
PRINT NAME JANICE JARO	PROJECT NO. C70770	PROJECT ENGINEER JING DEBELISO
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED DATE 10/26/21
		SEE SHEETS CCS27 COORDINATE
		SEE SHEETS CCS83 COORDINATE
CONTRACTOR _____		NTP DATE _____
INSPECTOR _____		NOC DATE _____
		41338-40-D

CURB RAMP LOCATION

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CURB RAMP NOTES TABLE

LOCATION NO.	CURB RAMP TYPE	APPROX. R/W	REPLACEMENT	NEW	HISTORIC STAMPS	SURVEY MARKER	BARRICADE TYPE	MISC SIGN	DETECTABLE WARNING TILES		REPLACE SPANDREL (SP) OR CONCRETE ALLEY APRON (CAA)	STANDARD DRAWING	COMMENTS / MODIFICATIONS
									STAINLESS STEEL	OTHER			
1	B	9.8'	X						X			SDG-133	COORDINATE WITH UTILITY COMPANY, RELOCATING GUY WIRE ON WEST SIDE OF INTERSECTION.
2	A	10'	X						X			SDG-134	RELOCATE STOP LIMIT BEFORE CURB RAMP.
3	A	10'	X						X			SDG-134	ALIGN CURB RAMP WITH CURB RAMP IN GREEN INFRASTRUCTURE PROJECT.
4	D	10'		X					X			SDG-137	
5	D	10'		X					X			SDG-137	RELOCATE PULLBOX AT THE CORNER IF IN CONFLICT WITH DWT. IF NOT, ADJUST TO GRADE.
6	A	10'		X					X			SDG-134	
7	A	10'		X	X				X			SDG-134	PROTECT IN PLACE HISTORIC STAMP "GRIFFITH 1953". RELOCATE STOP SIGN POLE AND STOP LIMIT LINE BEFORE CURB RAMP.
8	A	10'		X					X		X	SDG-134	REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB. MAINTAIN 4' MIN. CLEARANCE FROM POWER POLE.
9	A	13'		X					X		X	SDG-134	REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB. RELOCATE STOP SIGN POLE AND STOP LIMIT LINE BEFORE CURB RAMP.
10	C1	12.5'		X					X		X	SDG-134	REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB. MAINTAIN LEVEL LANDING IN FRONT OF PRIVATE ENTRANCE.
11	C1	10'		X	X				X		X	SDG-134	PROTECT IN PLACE HISTORIC STAMP "CITY OF SAN DIEGO 2002 STREET DIVISION". REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB. RELOCATE STOP SIGN POLE AND STOP LIMIT LINE BEFORE CURB RAMP. PROTECT LANDSCAPE WALL IN PLACE.
12	C2	8'		X	X				X			SDG-134	PROTECT IN PLACE HISTORIC STAMP "GRIFFITH 1953".
13	A	21'		X	X				X			SDG-134	PROTECT IN PLACE HISTORIC STAMP "GRIFFITH 1953". RELOCATE STOP SIGN POLE AND STOP LIMIT LINE BEFORE CURB RAMP.
14	C2	9'	X		X				X		X	SDG-135	PROTECT IN PLACE HISTORIC STAMP "GRIFFITH 1953". REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB.
15	C2	9'	X		X				X		X	SDG-135	PROTECT IN PLACE HISTORICAL STAMP "MIRACLE 9-1927 CONSTR CO." SEE DETAIL A SHEET 43. PROTECT IN PLACE HISTORICAL STAMP "G SPIKES W LOVE 1973 CEMENT CONTRACTORS". REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB.
16	C2	10'		X					X			SDG-135	COORDINATE WITH UTILITY COMPANY TO PROVIDE A "SIDEWALK GUY" CONFIGURATION. SEE DETAIL A ON SHEET 43.
17	C2	11'		X	X				X			SDG-135	SEE DETAIL A ON SHEET 43.
18	C1	7'							X			SDG-135	PROTECT IN PLACE ELECTRICAL POLE. MAINTAIN LEVEL LANDING IN FRONT OF PRIVATE ENTRANCE.
19	B	14'		X	X				X			SDG-133	PROTECT IN PLACE EXISTING UTILITY POLE. PROTECT IN PLACE HISTORICAL STAMP "G SPIKES W LOVE 1973 CEMENT CONTRACTORS". ENSURE 4' MIN. SEPARATION FROM EX DRIVEWAY WING TO CURB RAMP FLARE. IF CROSSING IS SKEWED TOO MUCH, 4' MIN. FROM DRIVEWAY WING TO CURB RAMP OPENING.
20	B	14'		X					X			SDG-133	RELOCATE EXISTING WATER METER IF CONFLICTS WITH DWT. IF NOT ADJUST TO GRADE. MAINTAIN LEVEL LANDING IN FRONT OF PRIVATE ENTRANCE AND 4' SEPARATION FROM EX. DRIVEWAY.
21	C2	9'		X					X		X	SDG-135	REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB.
22	C2	9'		X					X			SDG-135	REPLACE LIFTED SIDEWALK PANEL WITH NEW SIDEWALK PER CITY STANDARD. PROTECT IN PLACE FIRE HYDRANT.
23	B	14'		X					X			SDG-133	RELOCATE YIELD/STOP SIGN AND LIMIT LINE BEFORE CURB RAMP. PROTECT IN PLACE EXISTING UTILITY POLE. COORDINATE WITH UTILITY COMPANY THE RELOCATION OF THE GUY WIRE.
24	B	14'		X					X			SDG-133	PROTECT IN PLACE EXISTING TREE. ENSURE LEVEL LANDING IN FRONT OF PRIVATE ENTRANCE. ENSURE 4' MIN. SEPARATION FROM ADJACENT DRIVEWAY. INSTALL FLARE ON EAST SIDE OF RAMP.
25	A	14'		X	X				X		X	SDG-134	PROVIDE A RETAINING CURB AT THE BACK OF THE CURB RAMP. PROTECT IN PLACE HISTORICAL STAMP "MIRACLE 9-1927 CONSTR CO." ENSURE CURB RAMP ALIGN WITH EX. CURB RAMP AT THE SOUTHWEST CORNER.
26	A	14'		X	X				X			SDG-134	PROVIDE A RETAINING CURB AT THE BACK OF THE CURB RAMP. PROTECT IN PLACE HISTORICAL STAMP "MIRACLE 9-1927 CONSTR CO." REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB.
27	A	10'	X						X		X	SDG-132	REMOVE AND REPLACE CONCRETE SPANDREL, POUR MONOLITHIC WITH CURB. INSTALL RAMP AT CENTER OF CURB RETURN. RELOCATE LIMIT TO ALIGN WITH RAMP NO. 26.
28	D	10'	X						X			SDG-137	INSTALL STEEL BOLLARDS AT NORTHWEST SIDE TO PREVENT CARS FROM ENCROACHING ONTO CURB RAMP.
29	D	10'		X					X			SDG-137	MAINTAIN A LEVEL LANDING IN FRONT OF PRIVATE ENTRANCE.
30	D	10'	X						X			SDG-137	PROTECT IN PLACE EXISTING UTILITY POLE. ENSURE FLARES ARE INSTALLED. UTILITY POLE MAY BE WITHIN FLARE.
31	D	10'	X						X			SDG-137	PROTECT IN PLACE EXISTING UTILITY POLE. ENSURE FLARES ARE INSTALLED. UTILITY POLE MAY BE WITHIN FLARE. MAINTAIN A LEVEL LANDING IN FRONT OF PRIVATE ENTRANCE.
32	D	10'	X						X			SDG-137	SEE DETAIL D ON SHEET 44. PROTECT IN PLACE EX BOLLARDS.
33	D	17'	X						X			SDG-137	
34	D	17'	X						X			SDG-137	

LOCATION NO.	CURB RAMP TYPE	APPROX. R/W	REPLACEMENT	NEW	HISTORIC STAMPS	SURVEY MARKER	BARRICADE TYPE	MISC SIGN	DETECTABLE WARNING TILES		REPLACE SPANDREL (SP) OR CONCRETE ALLEY APRON (CAA)	STANDARD DRAWING	COMMENTS / MODIFICATIONS
									STAINLESS STEEL	OTHER			
35	C2	9.8'		X					X			SDG-135	
36	C2	9.8'	X						X			SDG-135	REPLACE EX. RAMP DUE TO PONDING ISSUES.
37	D	10'	X						X			SDG-137	ADJUST PULLBOX TO GRADE. PULLBOX CAN BE IN FLARE.
38	D	10'	X						X			SDG-137	
39	D	10'	X						X			SDG-137	INSTALL BOLLARDS ADJACENT TO RAMP TO PROTECT PEDESTRIANS.
40	D	10'	X						X			SDG-137	ENSURE FLARE IS INSTALLED ON ROADWAY SIDE OF CURB RAMP. PROTECT IN PLACE EXISTING UTILITY POLE. COORDINATE WITH UTILITY COMPANY THE RELOCATION OF THE GUY WIRE.
41	B	16'		X					X			SDG-133	CURB RAMP SERVES ACCESSIBLE PARKING SPACE PER SDM-II7. SEE DETAIL C ON SHEET 44.
42	B	16'		X					X			SDG-133	CURB RAMP SERVES ACCESSIBLE PARKING SPACE PER SDM-II7. SEE DETAIL C ON SHEET 44.
43	B	16'		X					X			SDG-133	CURB RAMP SERVES ACCESSIBLE PARKING SPACE PER SDM-II7. SEE DETAIL C ON SHEET 44.
44	B	16'		X					X			SDG-133	CURB RAMP SERVES ACCESSIBLE PARKING SPACE PER SDM-II7. SEE DETAIL C ON SHEET 44.
45	B	16'		X					X			SDG-133	CURB RAMP SERVES ACCESSIBLE PARKING SPACE PER SDM-II7. SEE DETAIL C ON SHEET 44.

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<b>LEGEND</b>		<b>AC WATER &amp; SEWER GROUP 1052 CURB RAMP DETAIL</b>	
Ⓢ CURB RAMP NO's	T EX TREE	⊕ EX STREET LIGHT	
➔ EX UTILITY POLE	⚡ EX STREET SIGN	⚓ EX BARRICADE	
⊕ EX FIRE HYDRANT	⚠ EX CURB RAMP		
PROPOSED CURB RAMPS PER STANDARD DRAWINGS: DETECTABLE WARNING TILES SDG-130 GENERAL CURB RAMP NOTES SDG-131 CURB RAMP TYPE A SDG-132 CURB RAMP TYPE B SDG-133 DUAL CURB RAMPS SDG-134 CURB RAMP - TYPE C1 & C2 SDG-135 CURB RAMPS - ADDITIONAL DETAILS SDG-136 CURB RAMP - TYPE D SDG-137 PEDESTRIAN ISLAND AND CUT-THROUGH DETAILS SDG-139 PROTECTIVE RAILING AT CURB RAMPS SDG-140 EX STAMP/IMPRESSION PLACEMENT SDG-115		CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 41 OF 56 SHEETS WATER WBS B-18092 SEWER WBS B-18096 APPROVED: <i>[Signature]</i> DATE: 10/26/2021 FOR CITY ENGINEER: JANICE JARO PROJECT MANAGER PRINT DGE NAME: JANICE JARO RCE# C70770 CHECKED BY: JING DEBELISO PROJECT ENGINEER DESCRIPTION: ORIGINAL BY: JD/DW APPROVED: DATE: 10/26/21 FILMED: SEE SHEETS CC527 COORDINATE SEE SHEETS CC583 COORDINATE 41338-41-D	
CONTRACTOR: _____ INSPECTOR: _____		NTP DATE: _____ NOC DATE: _____	

CURB RAMP DETAIL

CURB RAMP NOTES TABLE

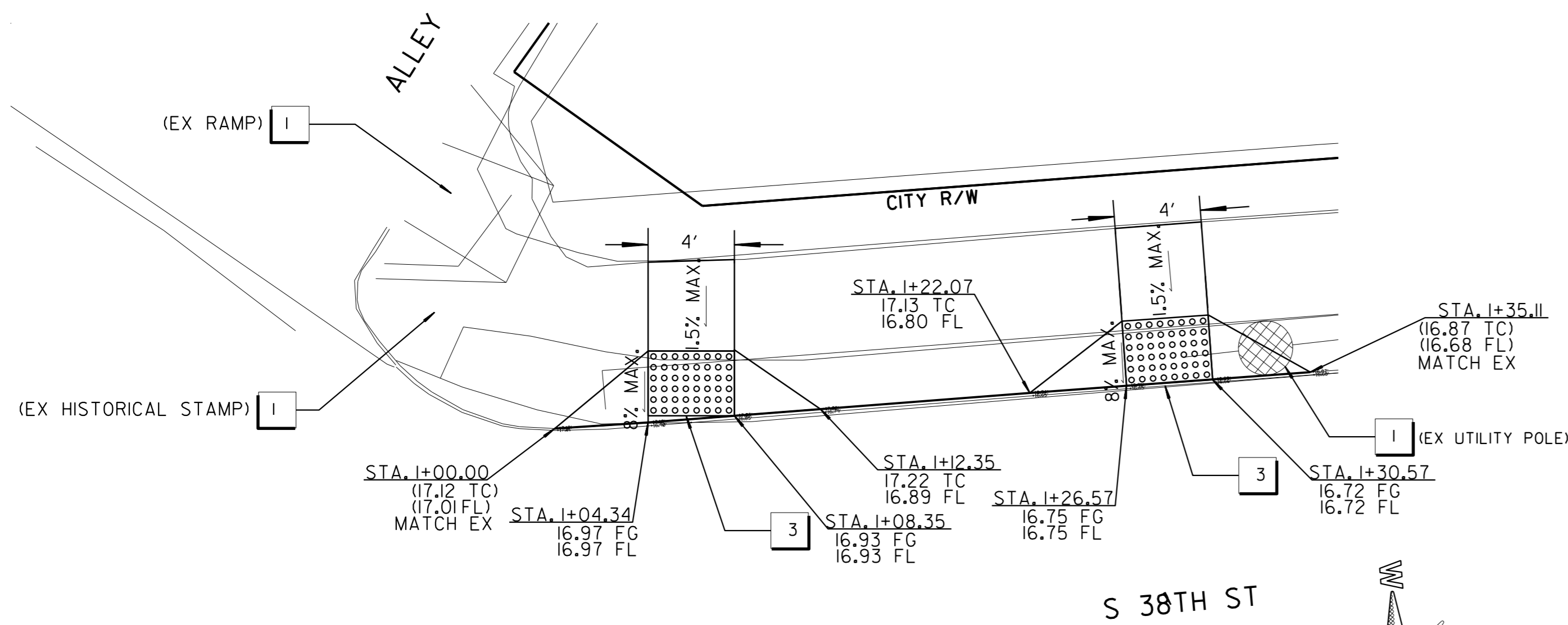
LOCATION NO.	CURB RAMP TYPE	APPROX. R/W	REPLACEMENT	NEW	HISTORIC STAMPS	SURVEY MARKER	BARRICADE TYPE	MISC SIGN	DETECTABLE WARNING TILES		REPLACE SPANDREL (SP) OR CONCRETE ALLEY APRON (CAA)	STANDARD DRAWING	COMMENTS / MODIFICATIONS
									STAINLESS STEEL	OTHER			
46	B	15'		X					X			SDG-133	
47	A	15'	X						X			SDG-132	
48	D	16'	X						X			SDG-137	PROVIDE A LEVEL LANDING IN FRONT OF PRIVATE WALKWAY. PROTECT IN PLACE EXISTING GATE, FENCE, AND DRIVEWAY.
49	D	16'		X					X			SDG-137	RELOCATE RAMP TO ALIGN WITH CURB RAMP 48.
50	A	18'	X						X			SDG-132	PROTECT IN PLACE EX PULLBOX.
51	D	5'	X						X			SDG-137	INSTALL STANDARD STEEL BOLLARDS BEHIND CURB RAMP TO PREVENT CAR ENCR OACHMENT. SEE DETAIL B ON SHEET 43.
52	D	10'	X						X			SDG-137	PROTECT EXISTING FENCE DURING DEMOLITION AND CONSTRUCTION.
53	C2	9'		X	X				X			SDG-135	PROVIDE LEVEL LANDING IN FRONT OF PRIVATE ENTRANCES. ADJUST EXISTING WATER METER TO GRADE. PROTECT IN PLACE HISTORICAL STAMP 'HEATH KING 5- 27'.
54	C2	9.6'		X	X				X			SDG-135	PROTECT IN PLACE HISTORICAL STAMP 'HEATH KING 5- 27'.
55	C2	9.7'		X					X			SDG-135	PROTECT EXISTING STREET LIGHT / UTILITY POLE. RELOCATE FIRE HYDRANT IF NECESSARY.
56	C1	7'		X	X				X			SDG-135	PROVIDE LEVEL LANDING IN FRONT OF PRIVATE ENTRANCE. PROTECT IN PLACE HISTORICAL STAMP 'HEATH KING 5- 27'.
57	C2	9.5'		X					X			SDG-134	
58	C2	12'		X	X				X			SDG-134	PROTECT IN PLACE HISTORICAL STAMP 'HEATH KING 5- 27'. WILL NEED RETAINING CURB UNLESS REGRADING. ENSURE LEVEL LANDING IN FRONT OF PRIVATE WALKWAY.
59	C2	8'		X					X			SDG-134	
60	C2	8'		X					X		X	SDG-134	REMOVE AND REPLACE CONCRETE SPANDREL. POUR MONOLITHIC WITH CURB.
61	C2	8'		X					X		X	SDG-134	REMOVE AND REPLACE CONCRETE SPANDREL. POUR MONOLITHIC WITH CURB.
62	C2	8'		X	X				X			SDG-134	PROTECT IN PLACE HISTORICAL STAMP.
63	C1	12'		X					X			SDG-134	PROTECT IN PLACE LANDSCAPE WALL.
64	C1	9.5'		X	X				X			SDG-134	RELOCATE STOP LIMIT BEFORE CURB RAMP. RELOCATE FIRE HYDRANT IF NECESSARY. PROTECT IN PLACE HISTORICAL STAMP 'HEATH KING 5- 27'. PROTECT IN PLACE LANDSCAPE WALL.
65	D	11.5'		X					X			SDG-137	
66	D	12'		X					X			SDG-137	
67	C1	6'	X						X		X	SDG-134	REMOVE AND REPLACE CONCRETE SPANDREL. POUR MONOLITHIC WITH CURB.
68	C1	5'	X						X			SDG-134	
69	B	10'		X					X			SDG-133	
70	D	10'	X						X			SDG-137	
71	C2	9'	X						X		X	SDG-135	REMOVE AND REPLACE CONCRETE SPANDREL. POUR MONOLITHIC WITH CURB.
72	C2	9'	X						X		X	SDG-135	REMOVE AND REPLACE CONCRETE SPANDREL. POUR MONOLITHIC WITH CURB.
73	C2	9'	X						X		X	SDG-135	REMOVE AND REPLACE CONCRETE SPANDREL. POUR MONOLITHIC WITH CURB.
74	C2	9'	X						X			SDG-135	
75	C2	9'	X						X			SDG-135	
76	C2/C1		X						X			SDG-136	WIDER RAMP TO BE INSTALL, IF C2 CANNOT FIT THAN C1.
77	C2/C1		X						X			SDG-136	WIDER RAMP TO BE INSTALL, IF C2 CANNOT FIT THAN C1.
78	B			X					X			SDG-133	

C-39

<b>LEGEND</b>		<b>AC WATER &amp; SEWER GROUP 1052 CURB RAMP DETAIL</b>	
Ⓚ CURB RAMP NO's	T EX TREE	⊕ EX STREET LIGHT	
→ EX UTILITY POLE	↑ EX STREET SIGN	⊖ EX BARRICADE	
⊕ EX FIRE HYDRANT	△ EX CURB RAMP		
PROPOSED CURB RAMPS PER STANDARD DRAWINGS: DETECTABLE WARNING TILES SDG-130 GENERAL CURB RAMP NOTES SDG-131 CURB RAMP TYPE A SDG-132 CURB RAMP TYPE B SDG-133 DUAL CURB RAMPS SDG-134 CURB RAMP - TYPE C1 & C2 SDG-135 CURB RAMPS - ADDITIONAL DETAILS SDG-136 CURB RAMP - TYPE D SDG-137 PEDESTRIAN ISLAND AND CUT-THROUGH DETAILS SDG-139 PROTECTIVE RAILING AT CURB RAMPS SDG-140 EX STAMP/IMPRESSION PLACEMENT SDG-115		CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 42 OF 56 SHEETS WATER WBS B-18092 SEWER WBS B-18096 APPROVED: <i>[Signature]</i> DATE: 10/26/2021 FOR CITY ENGINEER: JANICE JARO PROJECT MANAGER PRINT DSE NAME: JANICE JARO RCE# C70770 CHECKED BY: JING DEBELISO PROJECT ENGINEER DESCRIPTION: ORIGINAL BY: JD/DW APPROVED: <i>[Signature]</i> DATE: 10/26/21 SEE SHEETS CCS27 COORDINATE SEE SHEETS CCS83 COORDINATE CONTRACTOR: _____ NTP DATE: _____ INSPECTOR: _____ NOC DATE: _____	
		<b>41338-42-D</b>	

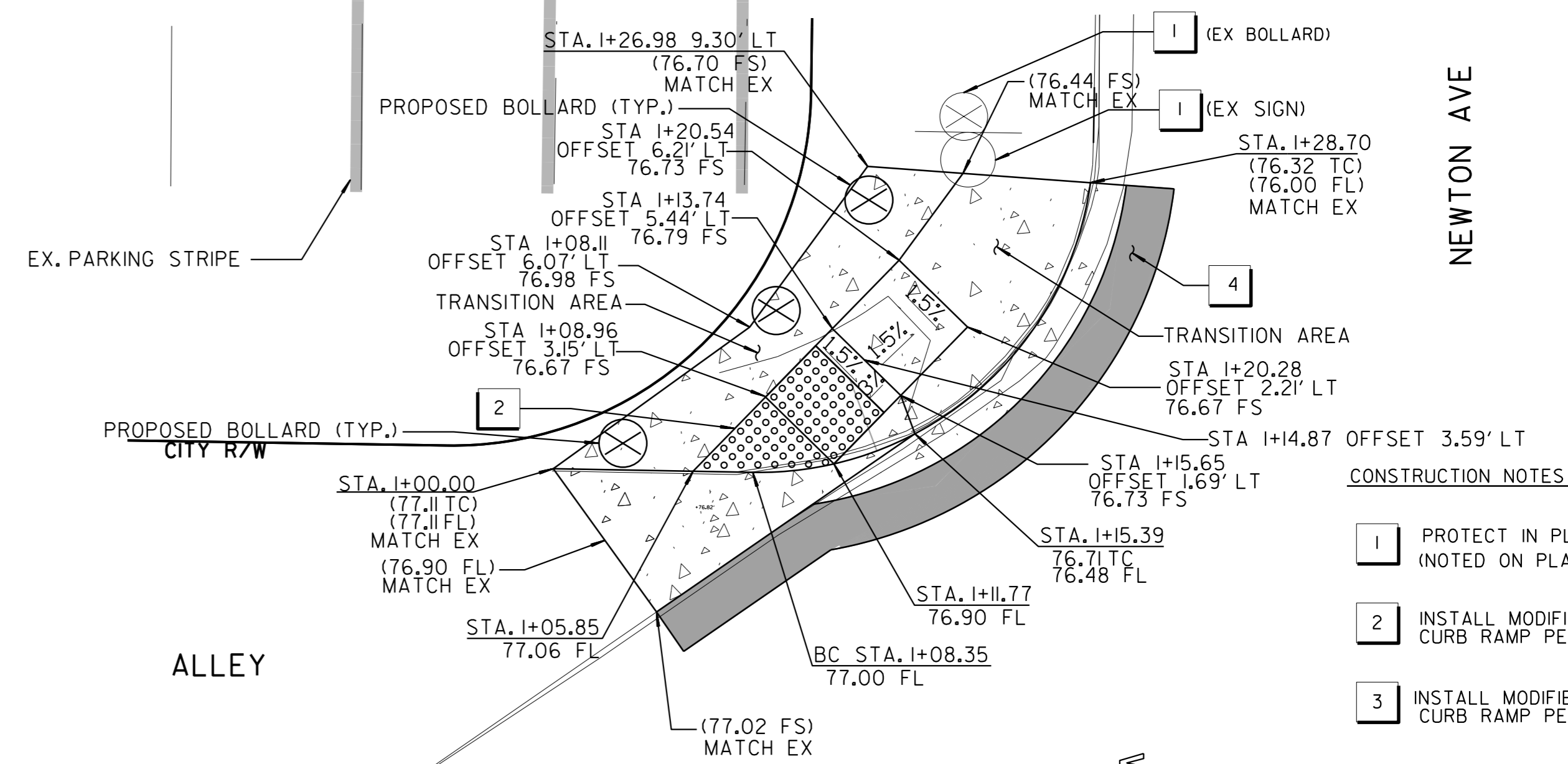
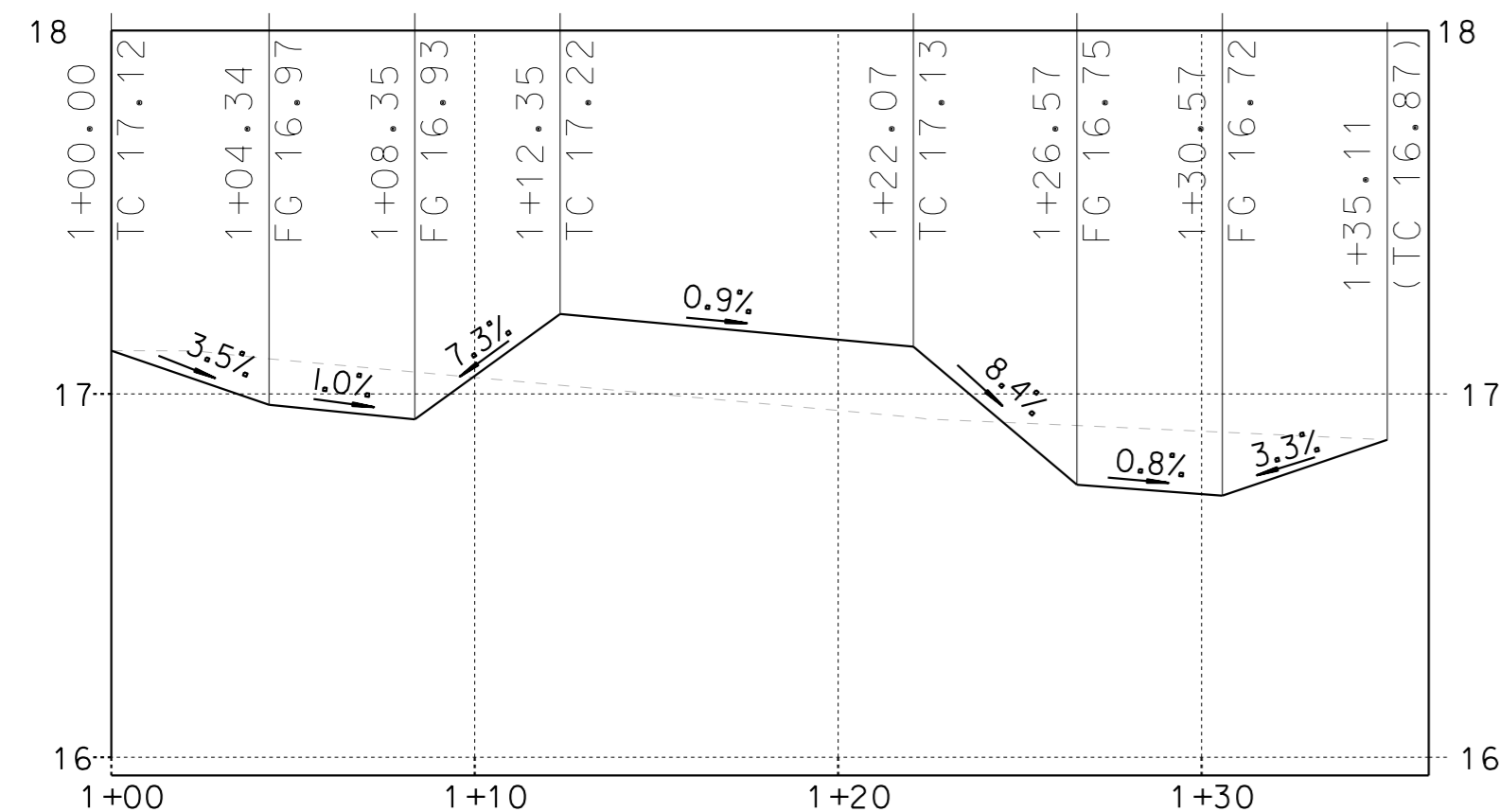
CURB RAMP DETAIL

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1833695.76	6299565.96	STRAIGHT	N 1°06'40" E	D = 5.85
PI	1+05.85	1833701.61	6299566.08	STRAIGHT	N 1°06'40" E	D = 2.50
PC	1+08.35	1833704.11	6299566.12	R = -14.00	DELTA = 14°00'26" LT	L = 3.42
PCC	1+11.77	1833707.50	6299565.77	R = -14.00	DELTA = 14°49'45" LT	L = 3.62
PCC	1+15.39	1833710.89	6299564.52	R = -14.00	DELTA = 54°28'25" LT	L = 13.31
PT	1+28.70	1833718.25	6299554.03			



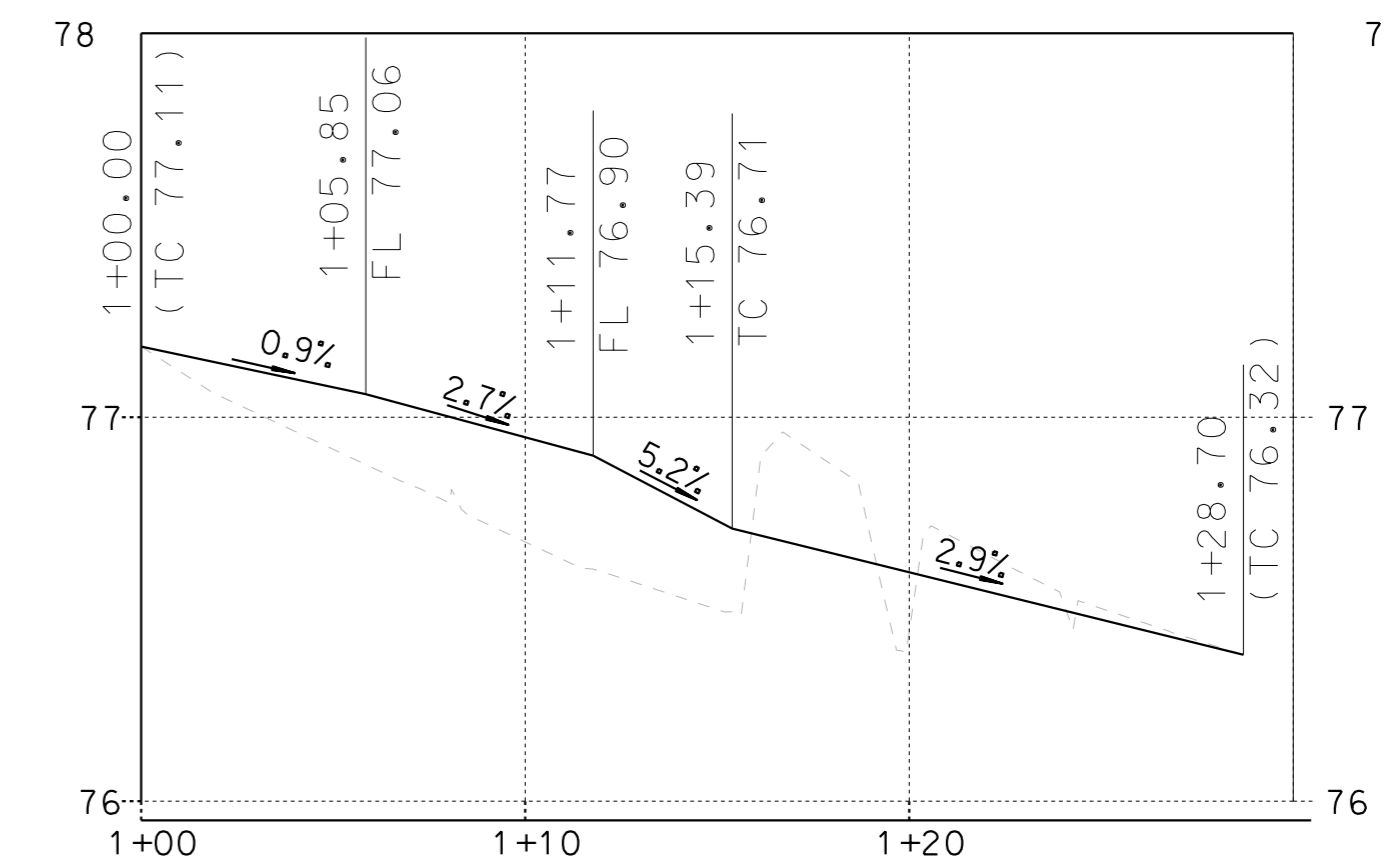
DETAIL A  
CURB RAMP 16 AND 17  
S 38TH ST AND ALLEY

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831853.65	6296307.69	STRAIGHT	N 0°31'42" E	D = 4.34
PI	1+04.34	1831857.98	6296307.73	STRAIGHT	N 0°09'40" W	D = 4.01
PI	1+08.35	1831861.99	6296307.72	STRAIGHT	N 0°09'40" W	D = 4.00
PI	1+12.35	1831865.99	6296307.70	STRAIGHT	N 0°09'40" W	D = 9.73
PI	1+22.07	1831875.72	6296307.68	STRAIGHT	N 0°00'52" E	D = 4.50
PI	1+26.57	1831880.22	6296307.68	STRAIGHT	N 0°01'54" E	D = 4.00
PI	1+30.57	1831884.22	6296307.68	STRAIGHT	N 0°01'54" E	D = 4.54
POE	1+35.11	1831888.76	6296307.68			



DETAIL B  
CURB RAMP 51  
NEWTON AVE AND ALLEY

- CONSTRUCTION NOTES
- 1 PROTECT IN PLACE (NOTED ON PLANS)
  - 2 INSTALL MODIFIED TYPE D CURB RAMP PER SDG-137
  - 3 INSTALL MODIFIED TYPE C2 CURB RAMP PER SDG-135
  - 4 AC PATCH TO MATCH EX GRADE

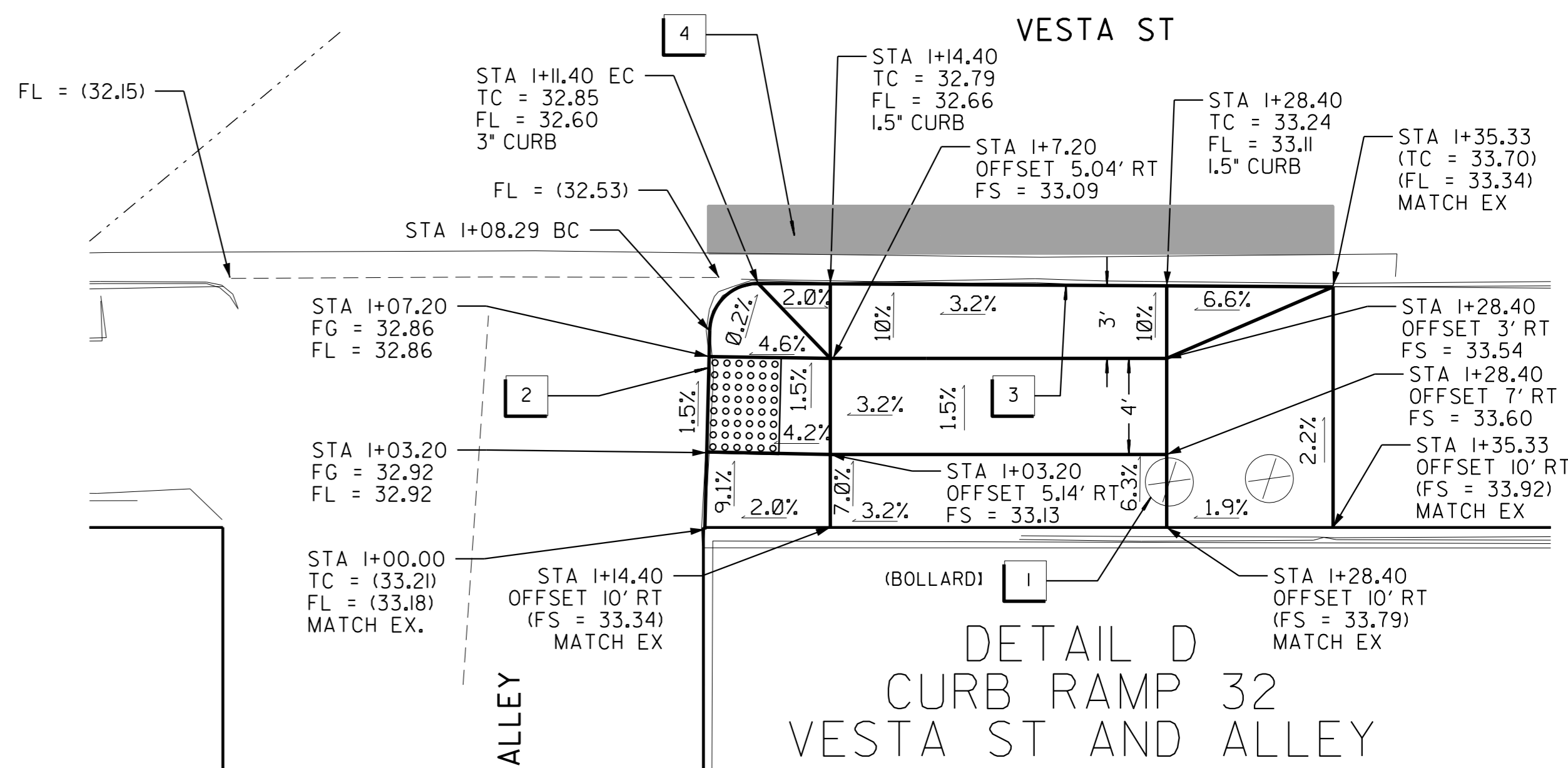
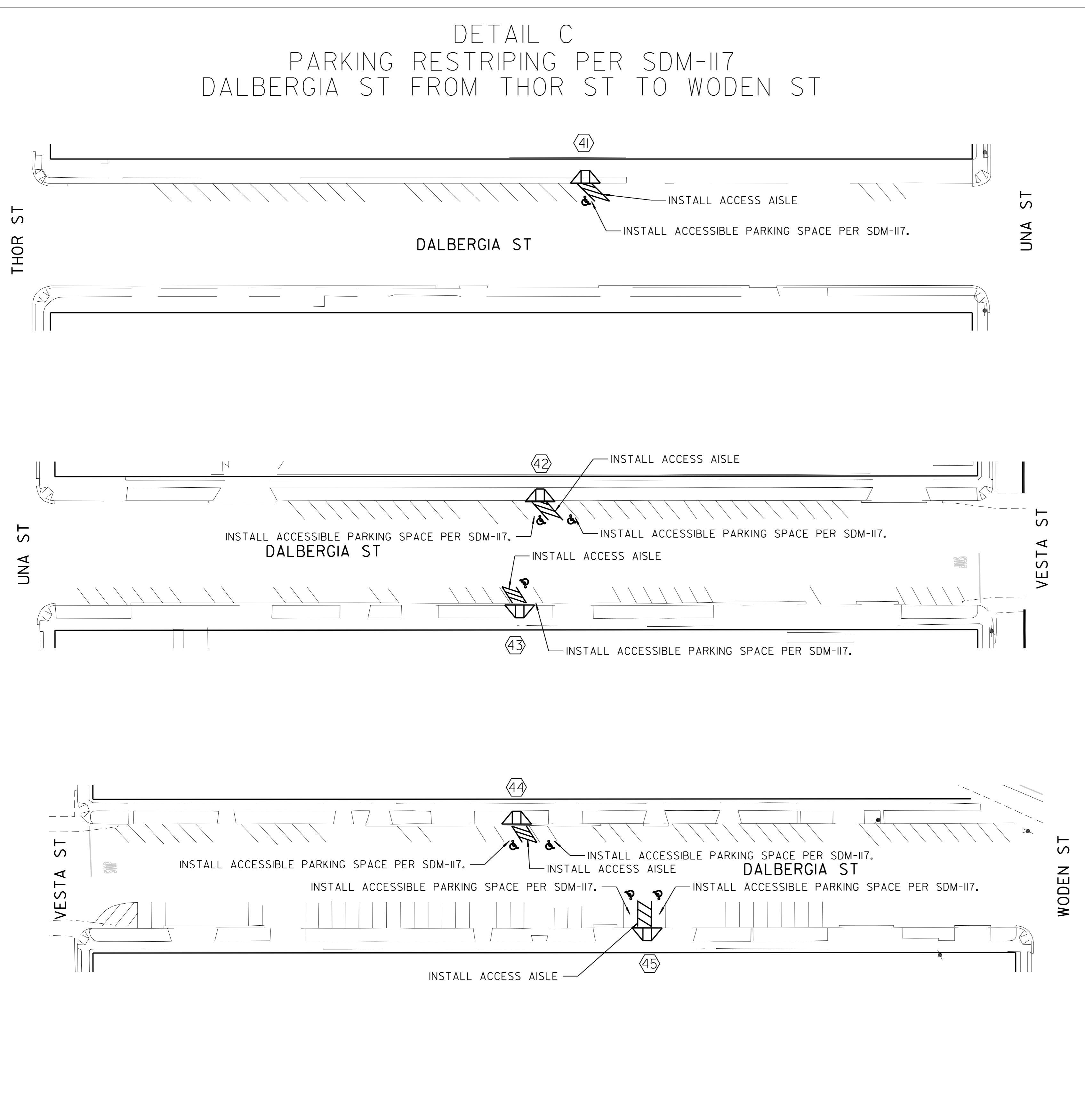


C-40

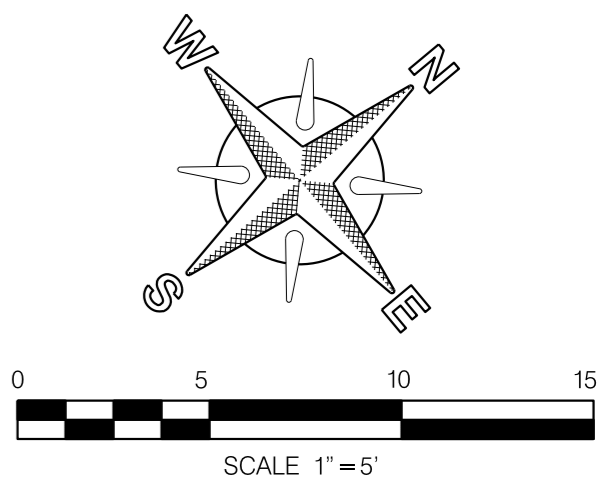
LEGEND		AC WATER & SEWER GROUP 1052 CURB RAMP LOCATION	
(B) CURB RAMP NO's	T EX TREE	⊙ EX STREET LIGHT	
⬇ EX UTILITY POLE	⬆ EX STREET SIGN	⊕ EX BARRICADE	
⊕ EX FIRE HYDRANT	⚠ EX CURB RAMP		
PROPOSED CURB RAMP PER STANDARD DRAWINGS: DETECTABLE WARNING TILES SDG-130 GENERAL CURB RAMP NOTES SDG-131 CURB RAMP TYPE A SDG-132 CURB RAMP TYPE B SDG-133 DUAL CURB RAMP SDG-134 CURB RAMP - TYPE C1 & C2 SDG-135 CURB RAMP - ADDITIONAL DETAILS SDG-136 CURB RAMP - TYPE D SDG-137 PEDESTRIAN ISLAND AND CUT-THROUGH DETAILS SDG-139 PROTECTIVE RAILING AT CURB RAMP SDG-140 EX STAMP/IMPRESSION PLACEMENT SDG-115		CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 43 OF 56 SHEETS APPROVED: <i>[Signature]</i> 10/26/2021 FOR CITY ENGINEER: JANICE JARO PRINT/DWG NAME: RCE# C70770 SUBMITTED BY: AMY MILLS PROJECT MANAGER: JING DEBELISO PROJECT ENGINEER: SEE SHEETS CCS27 COORDINATE: SEE SHEETS CCS83 COORDINATE: 41338-43-D	
CONTRACTOR: _____ NTP DATE: _____ INSPECTOR: _____ NOC DATE: _____			

CURB RAMP LOCATION

DETAIL C  
PARKING RESTRIPING PER SDM-II7  
DALBERGIA ST FROM THOR ST TO WODEN ST

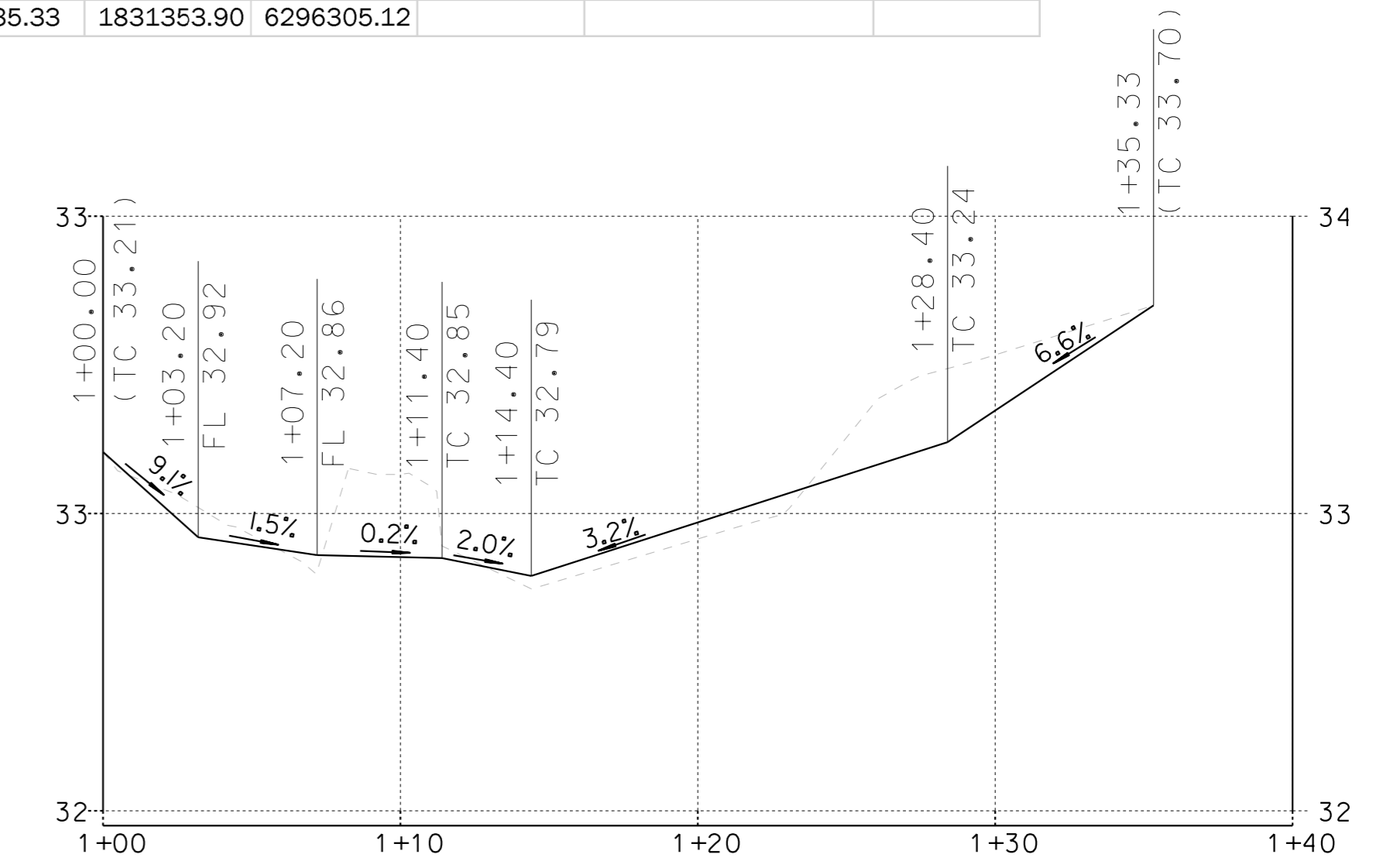


POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1831327.35	6296296.13	STRAIGHT	N 48°45'40" W	D = 3.20
PI	1+03.20	1831329.46	6296293.73	STRAIGHT	N 48°45'40" W	D = 4.00
PI	1+07.20	1831332.10	6296290.72	STRAIGHT	N 48°45'40" W	D = 1.10
PC	1+08.29	1831332.82	6296289.90	R = +2.00	DELTA = 88°55'38" RT	L = 3.10
PT	1+11.40	1831335.61	6296289.69	STRAIGHT	N 40°09'58" E	D = 3.01
PI	1+14.40	1831337.91	6296291.63	STRAIGHT	N 40°09'58" E	D = 14.00
PI	1+28.40	1831348.61	6296300.66	STRAIGHT	N 40°09'58" E	D = 6.92
POE	1+35.33	1831353.90	6296305.12			



CONSTRUCTION NOTES

- 1 PROTECT IN PLACE (NOTED ON PLANS)
- 2 INSTALL MODIFIED TYPE D CURB RAMP PER SDG-I37
- 3 INSTALL DRIVEWAY PER SDG-I62
- 4 AC PATCH TO MATCH EX GRADE



LEGEND

Ⓢ CURB RAMP NO's	T EX TREE	⊙ EX STREET LIGHT
⊙ EX UTILITY POLE	⊙ EX STREET SIGN	⊙ EX BARRICADE
⊙ EX FIRE HYDRANT	⊙ EX CURB RAMP	

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:  
 DETECTABLE WARNING TILES SDG-130  
 GENERAL CURB RAMP NOTES SDG-131  
 CURB RAMP TYPE A SDG-132  
 CURB RAMP TYPE B SDG-133  
 DUAL CURB RAMPS SDG-134  
 CURB RAMP - TYPE C1 & C2 SDG-135  
 CURB RAMPS - ADDITIONAL DETAILS SDG-136  
 CURB RAMP - TYPE D SDG-137  
 PEDESTRIAN ISLAND AND CUT-THROUGH DETAILS SDG-139  
 PROTECTIVE RAILING AT CURB RAMPS SDG-I40  
 EX STAMP/IMPRESSION PLACEMENT SDG-I15

AC WATER & SEWER GROUP 1052  
CURB RAMP LOCATION

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 44 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED:	DATE: 10/26/2021	SUBMITTED BY: AMY MILLS
FOR CITY ENGINEER: JANICE JARO	DATE: 10/26/21	PROJECT MANAGER: JING DEBELISO
PRINT/DWG NAME: JANICE JARO	DATE: 10/26/21	PROJECT ENGINEER: JING DEBELISO
DESCRIPTION: ORIGINAL	BY: JD/DW	FILED: 10/26/21
SEE SHEETS CCS27 COORDINATE		SEE SHEETS CCS83 COORDINATE
CONTRACTOR: _____		NTP DATE: _____
INSPECTOR: _____		NOC DATE: _____

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CURB RAMP DETAIL



# WORK BY CITY FORCES

## LEGEND

- EXISTING WATER MAIN
- ..... PRESSURE ZONE BOUNDARY
- PROPOSED WATER MAIN
- FIRE HYDRANT TO BE REPLACED IN PLACE
- ⊗ FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- ③ CITY FORCES NOTE NUMBER (THIS SHEET)
- ③/24/6 CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)
- ③/24/6 PLAN & PROFILE "D" SHEET NUMBER

BC --- BEFORE CONTRACTOR  
AC --- AFTER CONTRACTOR

### WORK BY CITY FORCES

- ① BC - TEE/CROSS CUT-IN, OPEN/CLOSE VALVE(S)  
AC - RECONNECT, OPEN VALVE(S)
- ② BC - CUT & PLUG  
AC - RECONNECT
- ③ BC - CUT AND ABANDON
- ④ BC - CUT AND PLUG PERMANENTLY

### AREA TO BE HIGHLINED IN PHASES

- ▭ PHASE 1
- ▭ PHASE 2
- ▭ PHASE 3
- ▭ PHASE 4
- ▭ PHASE 5

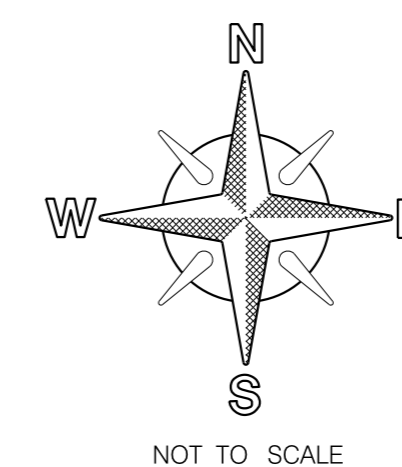
THE ENGINEER SHALL NOTIFY THE PUBLIC UTILITIES DEPARTMENT WATER PRODUCTION SUPERINTENDENT DAN DAFT AT 619-668-3233 THIRTY (30) DAYS PRIOR TO IMPACTING THE EXISTING WATER SAMPLING STATION.

NOTE FOR CONTRACTOR & CITY FORCES THIS IS 1 OF ONLY 2 FEEDS TO THE NAVY BASE.

**WATER LEGEND**  
--- PROPOSED WATER MAIN  
--- EXISTING WATER MAIN

CONTRACTOR FURNISHED MATERIALS FOR CITY FORCE WORK				
SHEET NO.	16" X 16" TEE	16" B.V.	16" X 10" REDUCER	16" LF
18	1	3	1	40

SEE THRUST BLOCK TABLE ON SHEET 46

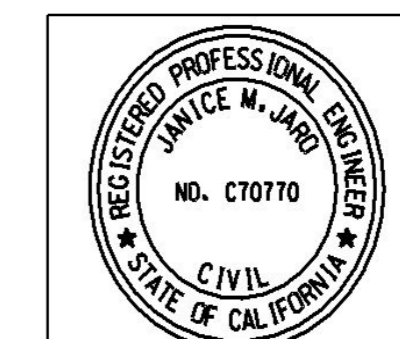


C-42

AC WATER & SEWER GROUP 1052  
WORK BY CITY FORCES

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 45 OF 56 SHEETS

WATER WBS B-18092  
SEWER WBS B-18096



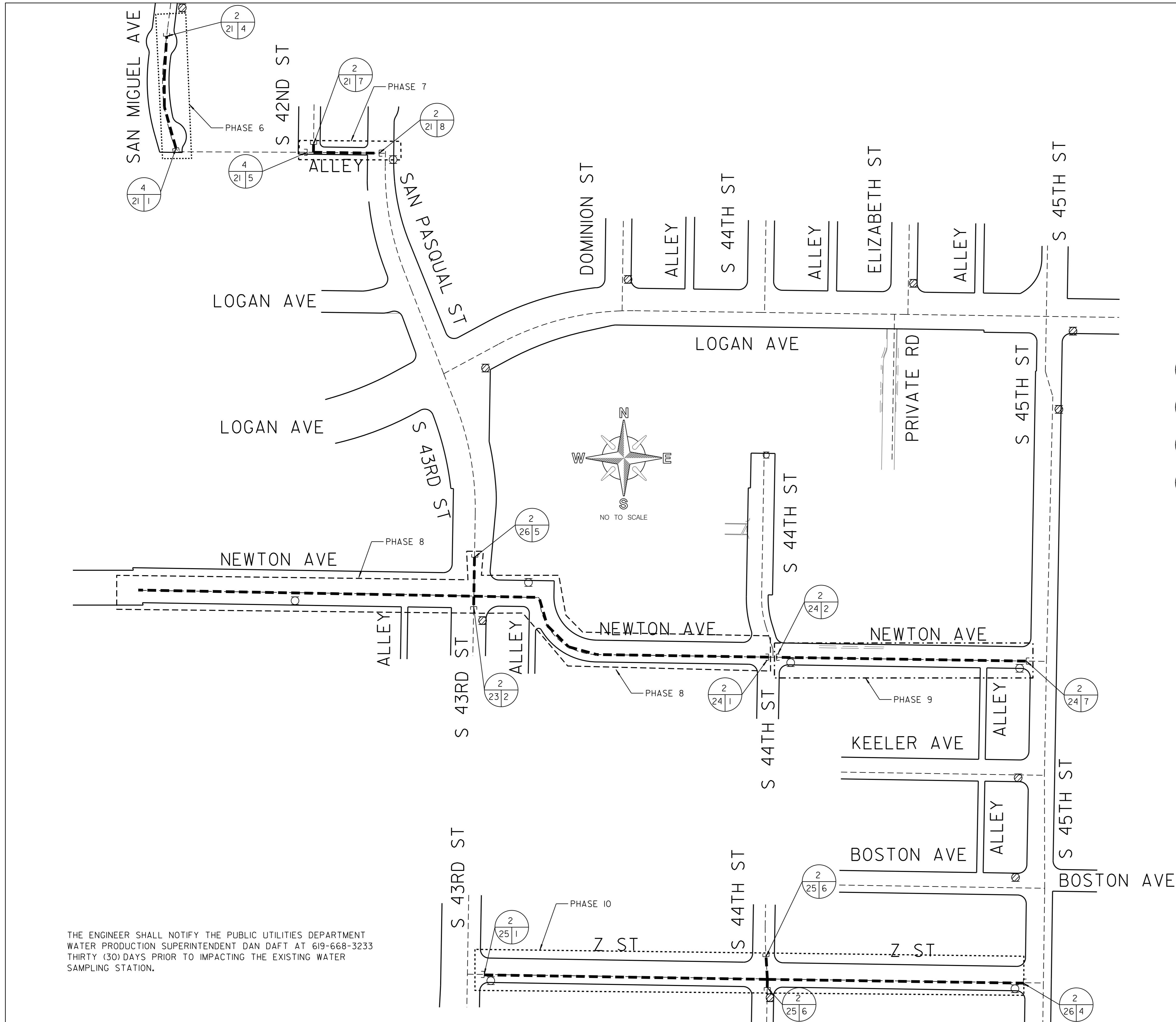
APPROVED: *[Signature]* DATE: 10/26/2021  
FOR CITY ENGINEER: JANICE JARO  
PRINT DCE NAME: JANICE JARO RCE# C70770  
SUBMITTED BY: AMY MILLS PROJECT MANAGER  
CHECKED BY: JING DEBELISO PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW	<i>[Signature]</i>	10/26/21	

SEE SHEETS  
CCS27 COORDINATE  
SEE SHEETS  
CCS83 COORDINATE

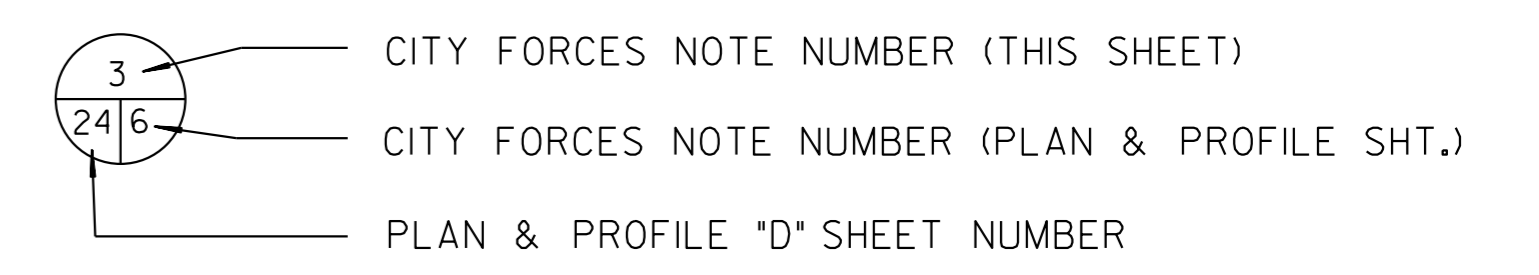
CONTRACTOR INSPECTOR \_\_\_\_\_ NTP DATE \_\_\_\_\_ NOC DATE \_\_\_\_\_ 41338-45-D

WORK BY CITY FORCES



**LEGEND**

- EXISTING WATER MAIN
- ..... PRESSURE ZONE BOUNDARY
- PROPOSED WATER MAIN
- FIRE HYDRANT TO BE REPLACED
- ⊗ FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION



BC --- BEFORE CONTRACTOR  
 AC --- AFTER CONTRACTOR

**WORK BY CITY FORCES**

- 1 BC - TEE/CROSS CUT-IN, OPEN/CLOSE VALVE(S)  
AC - RECONNECT. OPEN VALVE(S)
- 2 BC - CUT & PLUG  
AC - RECONNECT
- 3 BC - CUT AND ABANDON
- 4 BC - CUT & PLUG PERMANENTLY

**AREA TO BE HIGHLINED IN PHASES**

- PHASE 6
- PHASE 7
- PHASE 8
- PHASE 9
- PHASE 10

THE ENGINEER SHALL NOTIFY THE PUBLIC UTILITIES DEPARTMENT WATER PRODUCTION SUPERINTENDENT DAN DAFT AT 619-668-3233 THIRTY (30) DAYS PRIOR TO IMPACTING THE EXISTING WATER SAMPLING STATION.

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<b>AC WATER &amp; SEWER GROUP 1052 WORK BY CITY FORCES</b>			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 46 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096	DATE 10/26/2021 PROJECT MANAGER AMY MILLS
FOR CITY ENGINEER JANICE JARO PRINT DATE NAME		DATE 10/26/2021 PROJECT ENGINEER JING DEBELISO	PROJECT ENGINEER JING DEBELISO
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	JD/DW		10/26/21
		SEE SHEETS CCS27 COORDINATE	
		SEE SHEETS CCS83 COORDINATE	
CONTRACTOR		NTP DATE	
INSPECTOR		NOC DATE	
41338-46-D			



WORK BY CITY FORCES


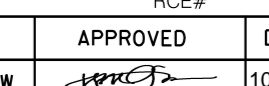
THRUST/ANCHOR TABLE FOR 16" AND LARGER WATER MAINS							
SHEET NO.	PIPE STATIONING	TYPE OF BLOCK	TYPE OF APPURTENANCE	DESIGN PRESSURE (lb / SQ IN.)	TOTAL THRUST (lb)	ASSUMED SOIL CAPACITY	MINIMUM BEARING AREA (sq. ft.), SEE NOTE 3 BELOW OR VOLUME OF BLOCK (cu. ft.)
4	1+00.00	THRUST	16" X 8" TEE	207.79	58,337	1,500 LB/SQ. FT.	39 SQ. FT.
7B	3+00.00	THRUST	16" 90° BEND	203.46	40,190	1,500 LB/SQ. FT.	27 SQ. FT.
7B	3+09.39	THRUST	16" 90° BEND	203.46	40,190	1,500 LB/SQ. FT.	27 SQ. FT.
9	15+89.01	THRUST	16" X 12" CROSS	198.05	63,684	1,500 LB/SQ. FT.	42 SQ. FT.
15	1+00.00	THRUST	16" X 16" TEE	205.63	56,836	1,500 LB/SQ. FT.	38 SQ. FT.
15	1+26.50	THRUST	16" X 6" TEE	205.63	57,363	1,500 LB/SQ. FT.	38 SQ. FT.
15	4+21.78	THRUST	16" X 6" TEE	200.76	57,363	1,500 LB/SQ. FT.	38 SQ. FT.
15	7+62.51	THRUST	16" X 16" CROSS	200.22	56,836	1,500 LB/SQ. FT.	38 SQ. FT.
16	11+34.67	THRUST	16" X 6" TEE	201.30	57,363	1,500 LB/SQ. FT.	38 SQ. FT.
16	14+18.33	THRUST	16" X 16" CROSS	201.84	56,836	1,500 LB/SQ. FT.	38 SQ. FT.
16	14+32.32	THRUST	16" 45° BEND	201.84	21,750	1,500 LB/SQ. FT.	15 SQ. FT.
16	14+41.44	THRUST	16" 45° BEND	201.84	21,750	1,500 LB/SQ. FT.	15 SQ. FT.
16	14+50.01	THRUST	16" X 6" TEE	201.84	57,363	1,500 LB/SQ. FT.	38 SQ. FT.
17	17+14.74	THRUST	16" X 4" TEE	202.92	56,949	1,500 LB/SQ. FT.	38 SQ. FT.
17	18+50.01	THRUST	16" X 6" TEE	202.92	57,363	1,500 LB/SQ. FT.	38 SQ. FT.
17	20+49.58	THRUST	16" 45° BEND	201.84	21,750	1,500 LB/SQ. FT.	15 SQ. FT.
17	20+57.98	THRUST	16" 45° BEND	201.84	21,750	1,500 LB/SQ. FT.	15 SQ. FT.
17	20+87.67	THRUST	16" X 16" TEE	203.46	58,337	1,500 LB/SQ. FT.	39 SQ. FT.
18	4+19.57	THRUST	16" X 16" TEE	205.63	56,836	1,500 LB/SQ. FT.	38 SQ. FT.
19	3+83.01	THRUST	16" X 6" TEE	201.30	57,363	1,500 LB/SQ. FT.	38 SQ. FT.

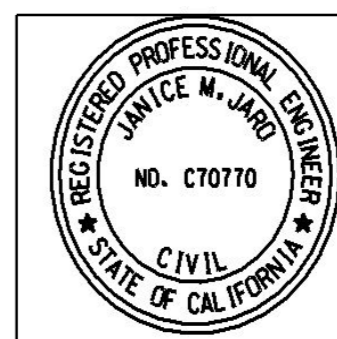
• THE SPECIFIC WEIGHT OF CONCRETE IS 140LB/CU.FT. SAFETY FACTOR = 1.5

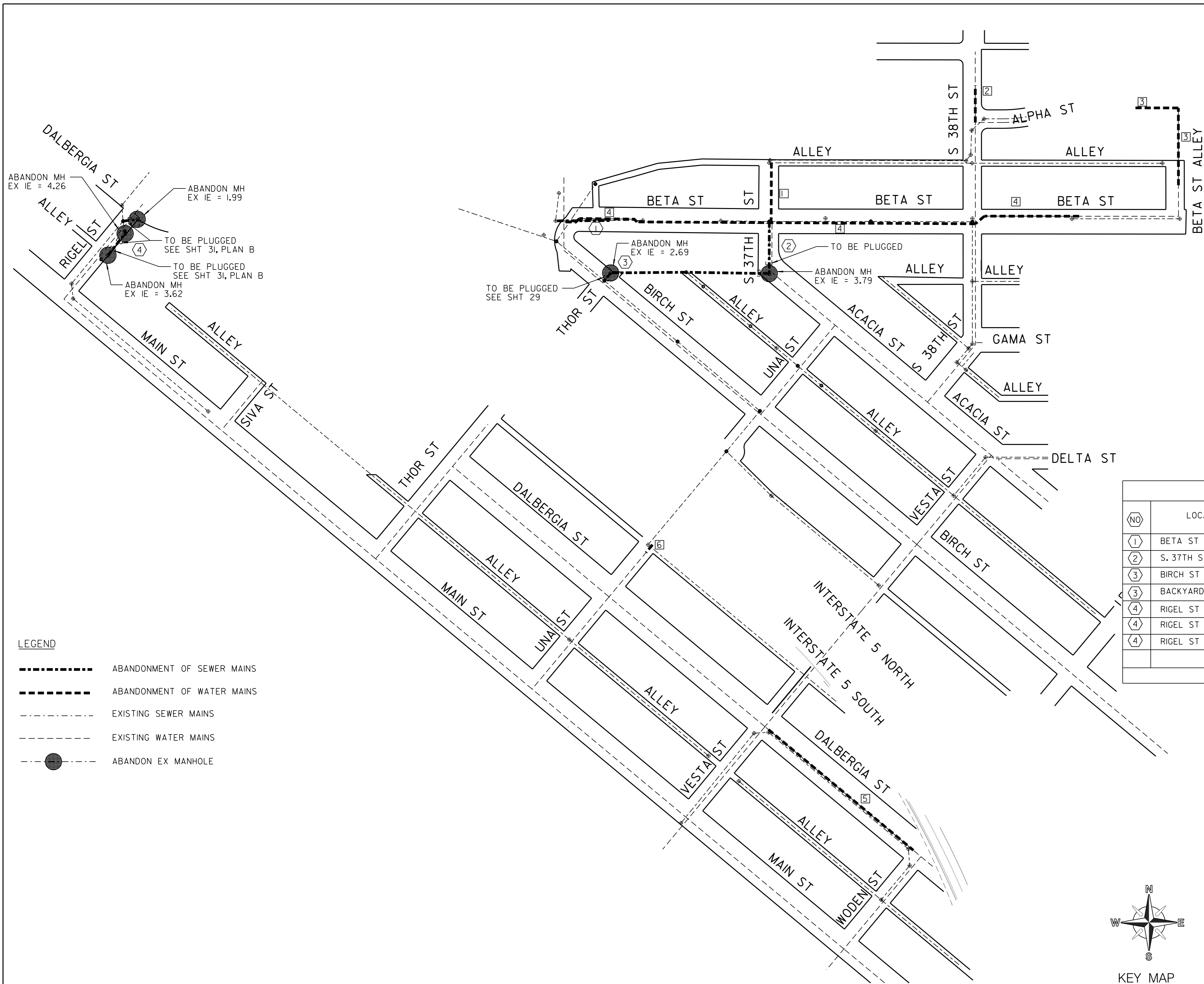
NOTES:  
 1. FOR ADDITIONAL THRUST BLOCK, ANCHOR BLOCKS DETAILS AND NOTES SEE SDW-151.  
 2. REFER TO SPECIFICATIONS SECTION 306-1.2.14 FOR ADDITIONAL REQUIREMENTS.  
 3. FOR ESTIMATING THE CY QUANTITY FOR THRUST BLOCKS, THE DEPTH OF THE THRUST BLOCKS SHALL BE HALF OF THE TRENCH WIDTH PLUS 12" EMBEDMENT.

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AC WATER & SEWER GROUP 1052  
WORK BY CITY FORCES

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 47 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096		
APPROVED:  FOR CITY ENGINEER JANICE JARO PRINT NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW		10/26/21	
CONTRACTOR		NTP DATE	41338-47-D	
INSPECTOR		NOC DATE		





ABANDONMENT OF WATER MAINS				
NO	LOCATION	SIZE OF PIPE	MATERIAL	LENGTH FT
1	S 37TH ST	8	AC	181
2	S 38TH ST	8	AC	29
3	S 39TH ST	8	AC	253
3	S 39TH ST	6	AC	316
4	BETA ST	8	AC	1,674
5	DALBERGIA ST	6	AC	650
6	UNA ST	1/2	COPPER	25
TOTAL ABANDONMENT OF WATER MAINS				3,128

ABANDONMENT OF SEWER MAINS							
NO	LOCATION	MH_ID NO.	RIM OF MANHOLE	IE OF MANHOLE	SIZE OF PIPE	MATERIAL	LENGTH FT
1	BETA ST	509	12.45	1.42	8"	PVC	175
2	S. 37TH ST	148	12.49	3.79	10"	PVC	52
3	BIRCH ST	224	12.39	2.69	15"	VC	33
3	BACKYARDS				14"	CP	515
4	RIGEL ST	180	11.71	3.62	6"	VC	90
4	RIGEL ST	208	12.26	4.26	8"	VC	15
4	RIGEL ST	206	12.39	1.99	8"	VC	47
TOTAL ABANDONMENT OF SEWER MAINS							927

- LEGEND**
- ABANDONMENT OF SEWER MAINS
  - ABANDONMENT OF WATER MAINS
  - EXISTING SEWER MAINS
  - EXISTING WATER MAINS
  - ABANDON EX MANHOLE



C-45

PLANS FOR THE CONSTRUCTION OF  
AC WATER AND SEWER GROUP 1052  
ABANDONMENT SHEET

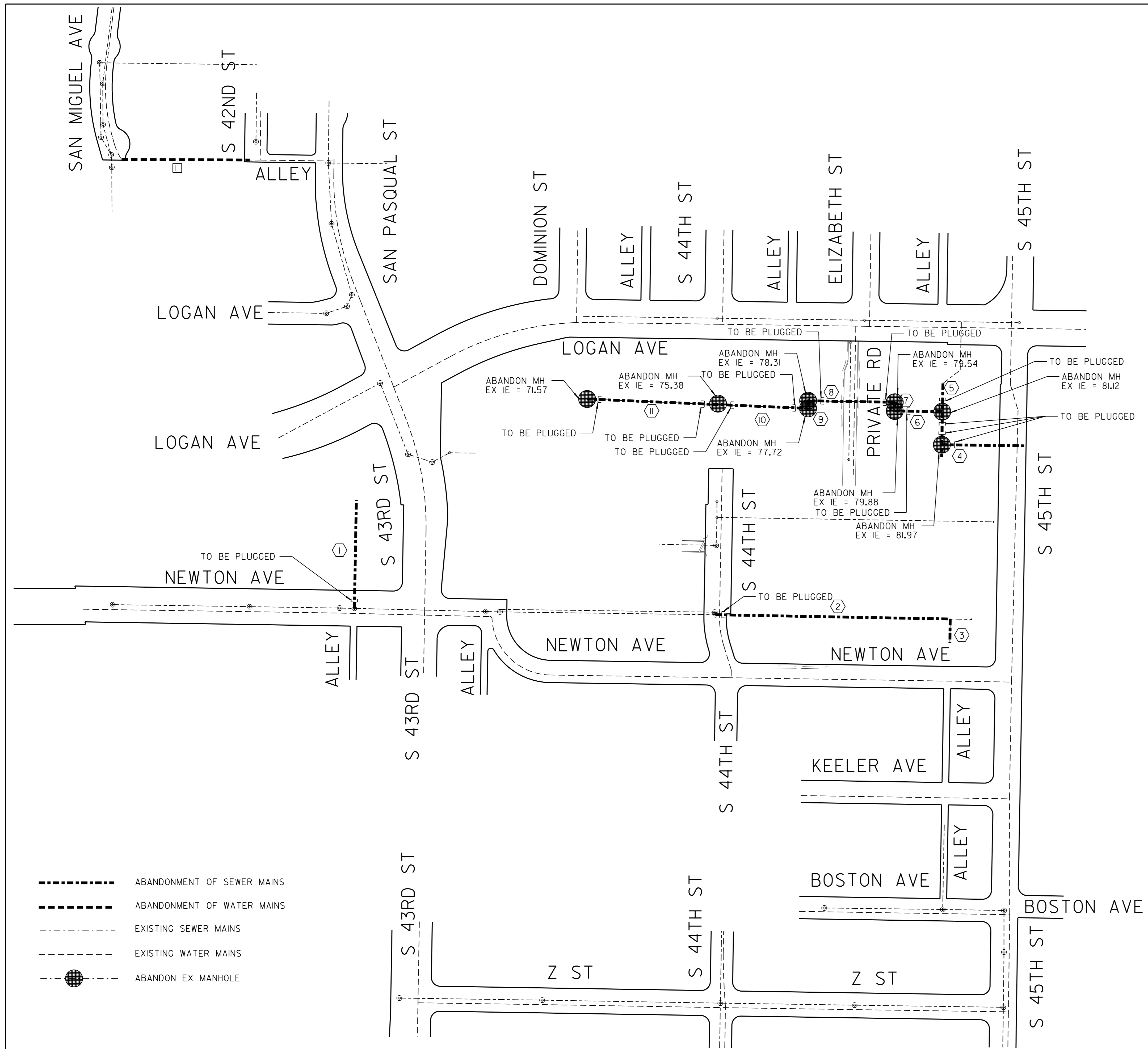
CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 48 OF 56 SHEETS



APPROVED FOR CITY ENGINEER JANICE JARO PRINT NAME	DATE 10/26/2021 C70770 RCE#	SUBMITTED BY AMY MILLS PROJECT MANAGER	WATER WBS B-18092
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED [Signature]	SEWER WBS B-18096
		DATE 10/26/21	
			CHIEF ENGINEER JING DEBELISO PROJECT ENGINEER
			SEE SHEETS CCS27 COORDINATE
			SEE SHEETS CCS83 COORDINATE

CONTRACTOR \_\_\_\_\_ NTP DATE \_\_\_\_\_  
INSPECTOR \_\_\_\_\_ NOC DATE \_\_\_\_\_

41338-48-D



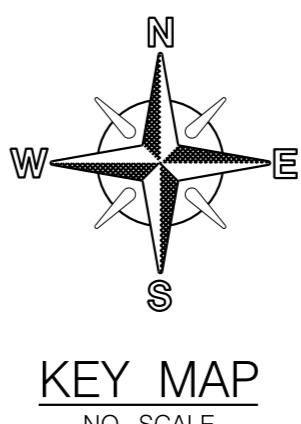
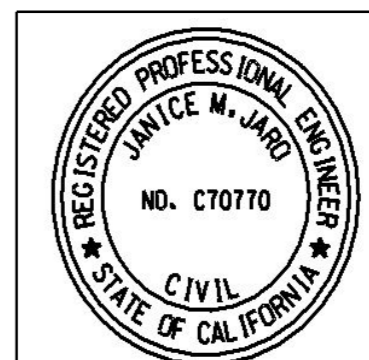
ABANDONMENT OF WATER MAINS				
NO	LOCATION	SIZE OF PIPE	MATERIAL	LENGTH FT
I	SAN MIGUEL AVE	4	AC	309
TOTAL ABANDONMENT OF WATER MAINS				309

ABANDONMENT OF SEWER MAINS							
NO	LOCATION	MH_ID NO.	RIM OF MANHOLE	IE OF MANHOLE	SIZE OF PIPE	MATERIAL	LENGTH FT
1	NEWTON AVE				6"	VC	215
2	NEWTON AVE				6"	CP	510
3	NEWTON AVE				6"	CP	60
4	S 45TH ST	262	88.47	82.59	8"	VC	185
5	S 45TH ST	94	88.39	81.55	6"	VC	158
6	S 45TH ST	93	85.88	79.88	6"	VC	104
7	S 45TH ST	89	85.54	79.54	6"	VC	32
8	S 45TH ST	86	85.31	78.31	6"	VC	196
9	S 45TH ST	96	84.72	77.72	6"	VC	27
10	S 45TH ST	95	82.38	75.38	6"	VC	205
11	S 45TH ST				6"	VC	324
TOTAL ABANDONMENT OF SEWER MAINS							2,016

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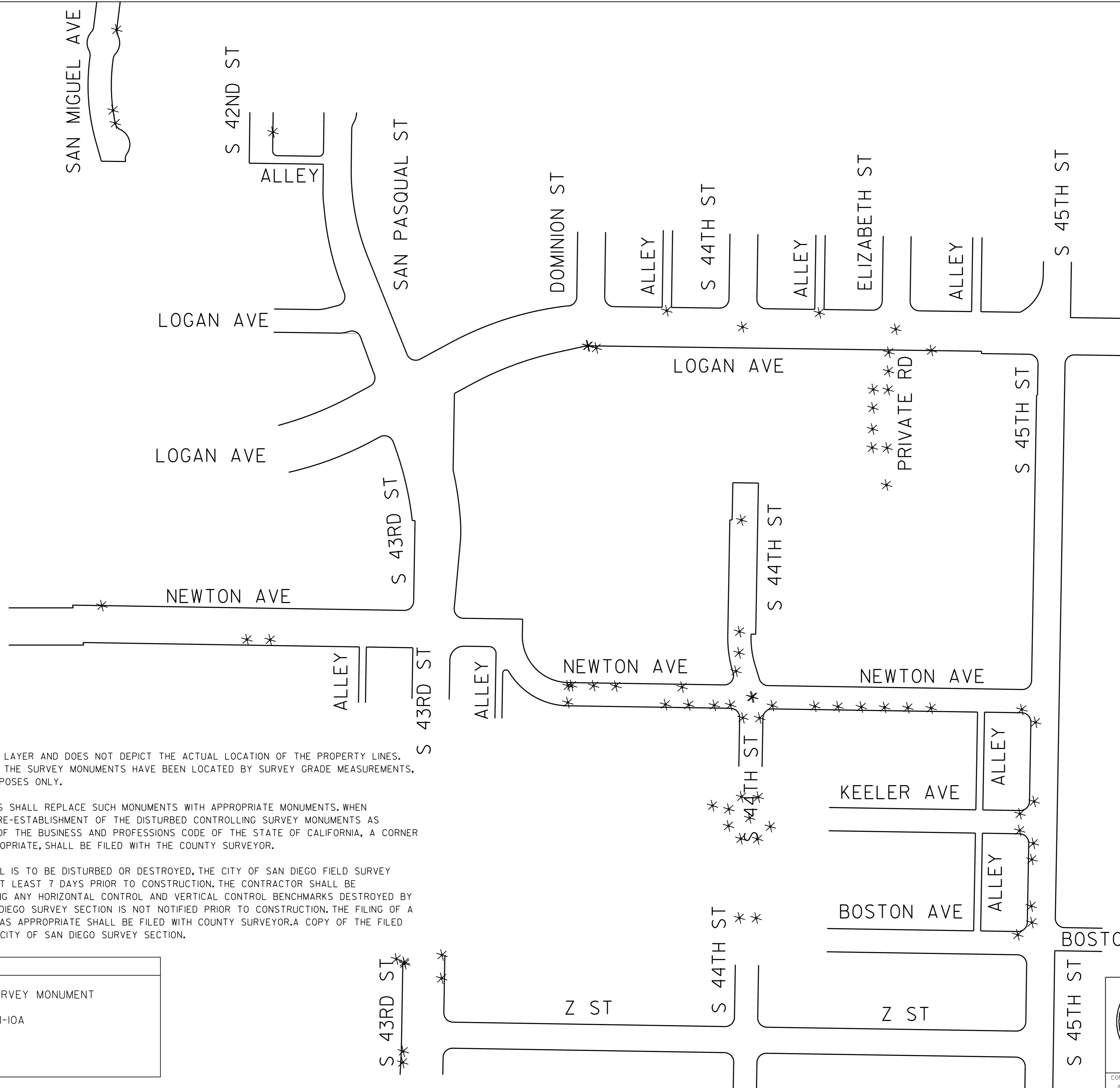
PLANS FOR THE CONSTRUCTION OF  
AC WATER AND SEWER GROUP 1052  
ABANDONMENT SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 49 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT EXE NAME	DATE 10/26/2021 C70770 RCE#	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
		DATE 10/26/21
		FILMED
		SEE SHEETS CCS27 COORDINATE
		SEE SHEETS CCS83 COORDINATE
CONTRACTOR		NTP DATE
INSPECTOR		NOC DATE



ABANDONMENT SHEET





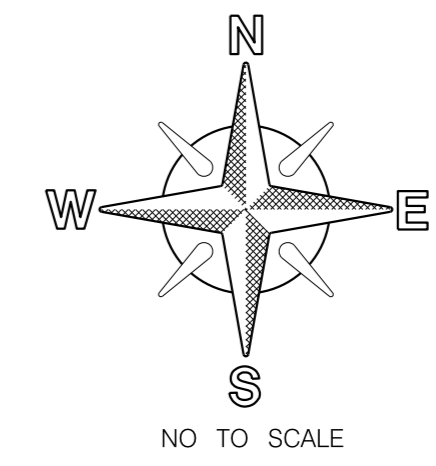
THIS MAP WAS CREATED FROM A PARCEL LAYER AND DOES NOT DEPICT THE ACTUAL LOCATION OF THE PROPERTY LINES. NO BOUNDARY ANALYSIS WAS PERFORMED. THE SURVEY MONUMENTS HAVE BEEN LOCATED BY SURVEY GRADE MEASUREMENTS, AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

THE CITY OF SAN DIEGO LAND SURVEYORS SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED WITH THE COUNTY SURVEYOR.

IF ANY HORIZONTAL OR VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ANY HORIZONTAL CONTROL AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION IF THE CITY OF SAN DIEGO SURVEY SECTION IS NOT NOTIFIED PRIOR TO CONSTRUCTION. THE FILING OF A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED WITH COUNTY SURVEYOR. A COPY OF THE FILED DOCUMENT SHALL BE FURNISHED TO THE CITY OF SAN DIEGO SURVEY SECTION.

**LEGEND:**

- \* - LOCATION OF EXISTING SURVEY MONUMENT
- △ - LOCATION OF EXISTING M-IOA



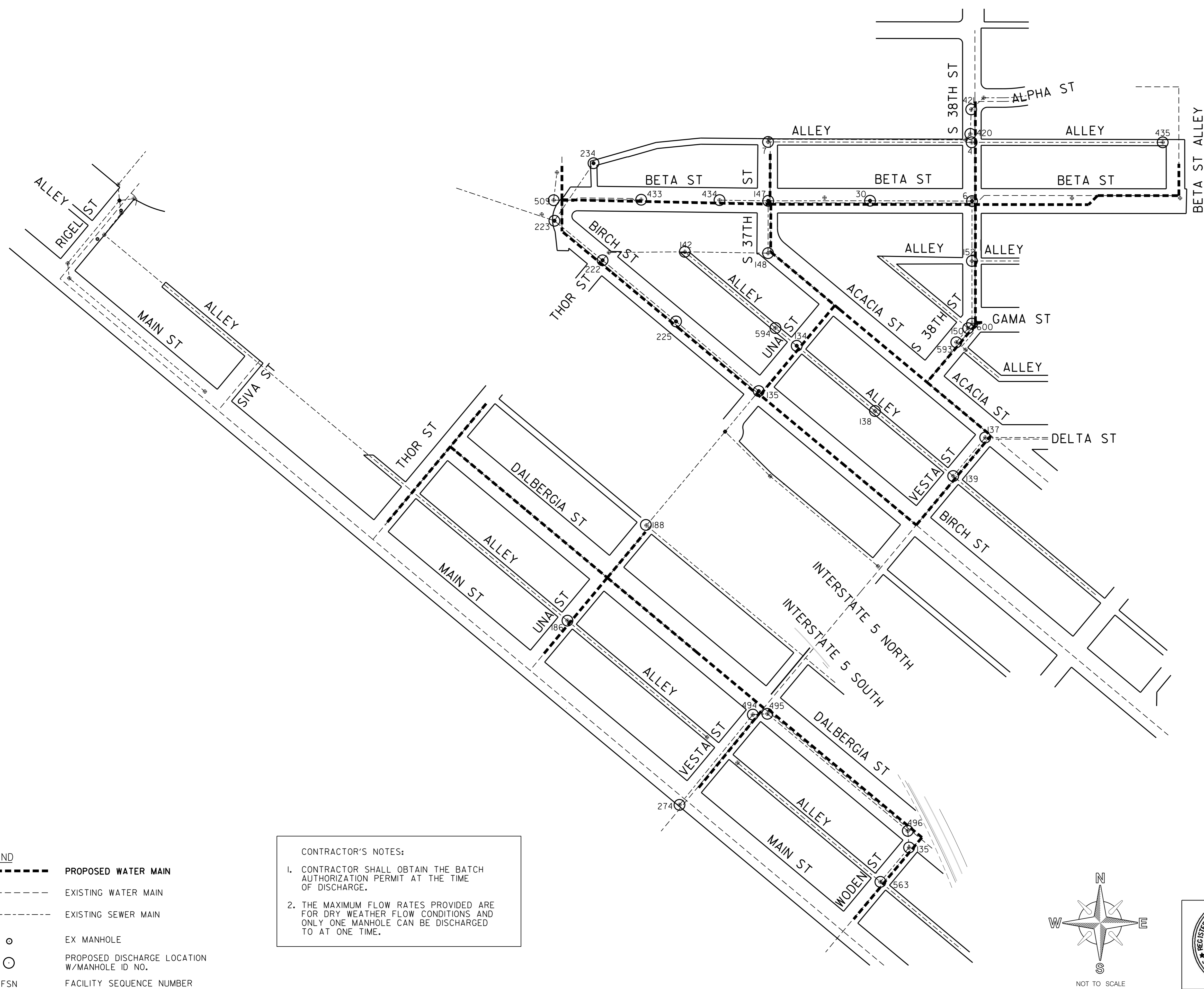
C-48

AC WATER & SEWER GROUP 1052  
SURVEY MONUMENT SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 51 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED FOR CITY ENGINEER <b>JANICE JARO</b> PRINT NAME	DATE 10/26/2021 RCE# C70770	SUBMITTED BY AMY MILLS PROJECT MANAGER CHECKED BY JING DEBELISO PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JD/DW	APPROVED <i>[Signature]</i>
DATE 10/26/21	FILMED	NTP DATE NOC DATE
		SEE SHEETS CCS27 COORDINATE SEE SHEETS CCS83 COORDINATE
		41338-51-D



DISCHARGE TABLE			
STREET NAME	MH ID NO.	FSN	MAX FLOW RATE (GPM)
ALLEY	234	107449	1000
BETA ST	509	5055552	1000
BETA ST	433	107573	500
BETA ST	434	107574	270
BETA ST	147	107371	270
BETA ST	30	107259	270
BETA ST	6	107236	270
BIRCH STREET	223	107443	1000
BIRCH STREET	222	107442	1000
BIRCH STREET	225	107445	270
UNA STREET	135	107360	270
UNA STREET	134	107359	270
ALLEY	594	5462760	270
S 37TH STREET	7	107237	250
ACACIA STREET	148	107372	270
ALLEY	138	107363	190
VESTA STREET	139	107364	190
VESTA STREET	137	107362	190
S 38TH STREET	593	5462069	190
S 38TH STREET	150	107374	190
S 38TH STREET	600	5462864	190
S 38TH STREET	152	107376	200
S 38TH STREET	4	107234	250
S 38TH STREET	420	107565	1000
S 38TH STREET	421	107566	1000
ALLEY	435	107575	250
UNA STREET	188	107411	270
UNA STREET	186	107409	340
MAIN STREET	274	107736	1000
VESTA STREET	494	107607	1000
DALBERGIA STREET	495	107608	1000
DALBERGIA STREET	496	107608	1000
WODEN STREET	135	107702	1000
WODEN STREET	563	5202946	300

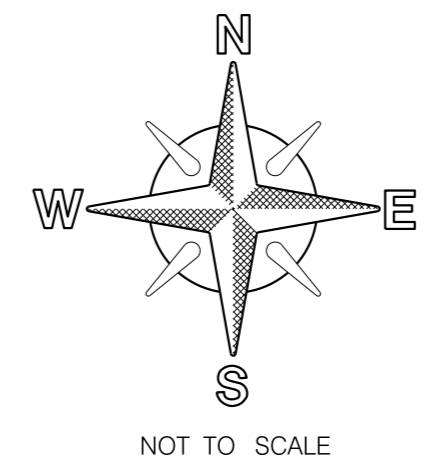


**LEGEND**

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EX MANHOLE
- PROPOSED DISCHARGE LOCATION W/MANHOLE ID NO.
- FSN FACILITY SEQUENCE NUMBER

**CONTRACTOR'S NOTES:**

- CONTRACTOR SHALL OBTAIN THE BATCH AUTHORIZATION PERMIT AT THE TIME OF DISCHARGE.
- THE MAXIMUM FLOW RATES PROVIDED ARE FOR DRY WEATHER FLOW CONDITIONS AND ONLY ONE MANHOLE CAN BE DISCHARGED TO AT ONE TIME.



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**AC WATER & SEWER GROUP 1052  
BATCH DISCHARGE SHEET**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 52 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER DATE: 10/26/2021	PROJECT MANAGER: AMY MILLS	
PRINT NAME: JANICE JARO RCE# C70770	PROJECT ENGINEER: JING DEBELISO	
DESCRIPTION: ORIGINAL	BY: JD/DW	APPROVED: <i>[Signature]</i>
		DATE: 10/26/21
		FILMED:
CONTRACTOR: _____		NTP DATE: _____
INSPECTOR: _____		NOC DATE: _____

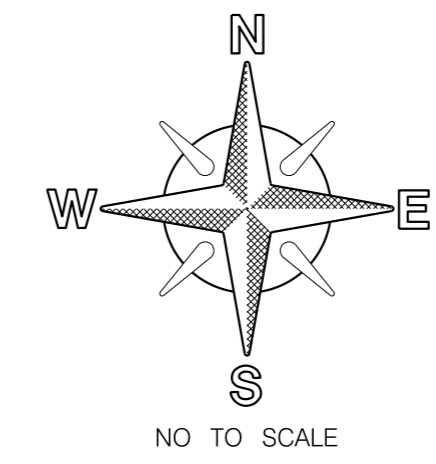
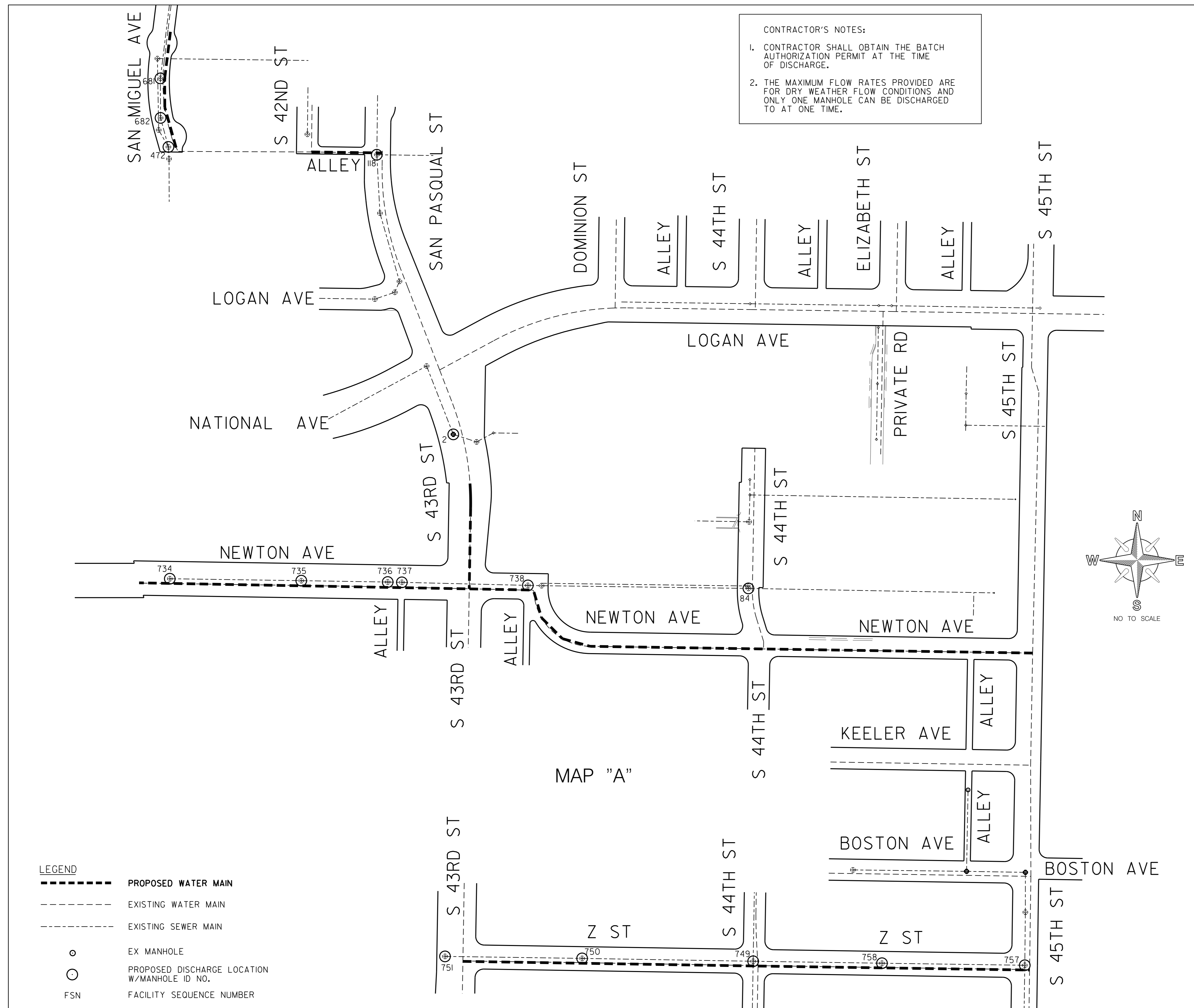
41338-52-D



CONTRACTOR'S NOTES:

1. CONTRACTOR SHALL OBTAIN THE BATCH AUTHORIZATION PERMIT AT THE TIME OF DISCHARGE.
2. THE MAXIMUM FLOW RATES PROVIDED ARE FOR DRY WEATHER FLOW CONDITIONS AND ONLY ONE MANHOLE CAN BE DISCHARGED TO AT ONE TIME.

DISCHARGE TABLE			
STREET NAME	MH ID NO.	FSN	MAX FLOW RATE (GPM)
NEWTON AVENUE	734	5559923	1000
NEWTON AVENUE	735	5559924	1000
NEWTON AVENUE	736	5559925	800
NEWTON AVENUE	737	5559926	500
NEWTON AVENUE	738	5559927	500
Z STREET	751	5559349	400
Z STREET	750	5559347	400
Z STREET	749	5559345	400
Z STREET	758	5559513	400
Z STREET	757	5559461	500
S 44TH STREET	84	112945	500
S 43RD ST	2	112872	400
SAN MIGUEL AVENUE	472	112828	1000
SAN MIGUEL AVENUE	682	112845	1000
SAN MIGUEL AVENUE	681	112844	1000
SAN PASQUAL STREET	118	112658	1000



**LEGEND**

	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	EXISTING SEWER MAIN
	EX MANHOLE
	PROPOSED DISCHARGE LOCATION W/MANHOLE ID NO.
	FSN FACILITY SEQUENCE NUMBER

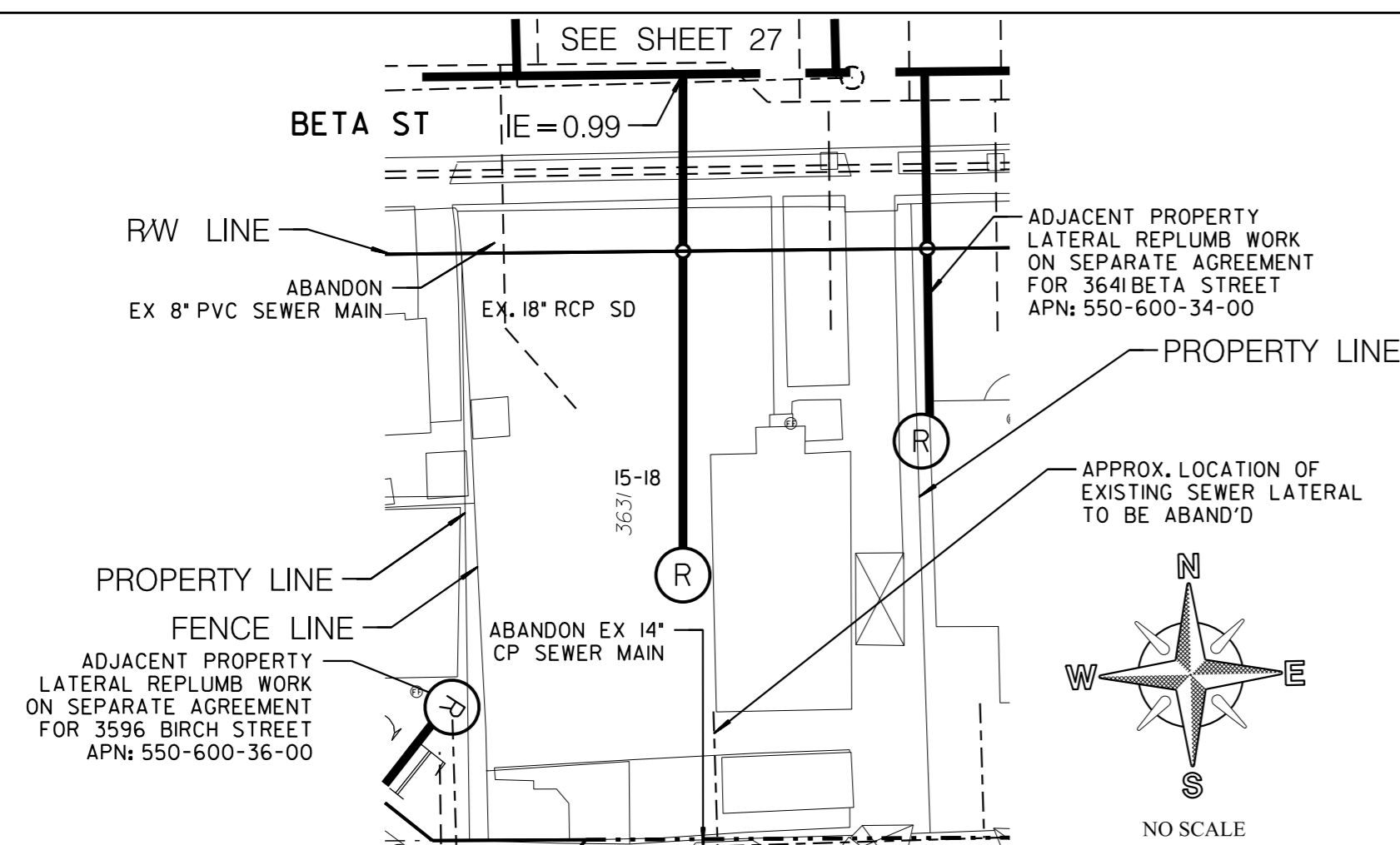
MAP "A"

C-50

AC WATER & SEWER GROUP 1052  
BATCH DISCHARGE PLAN

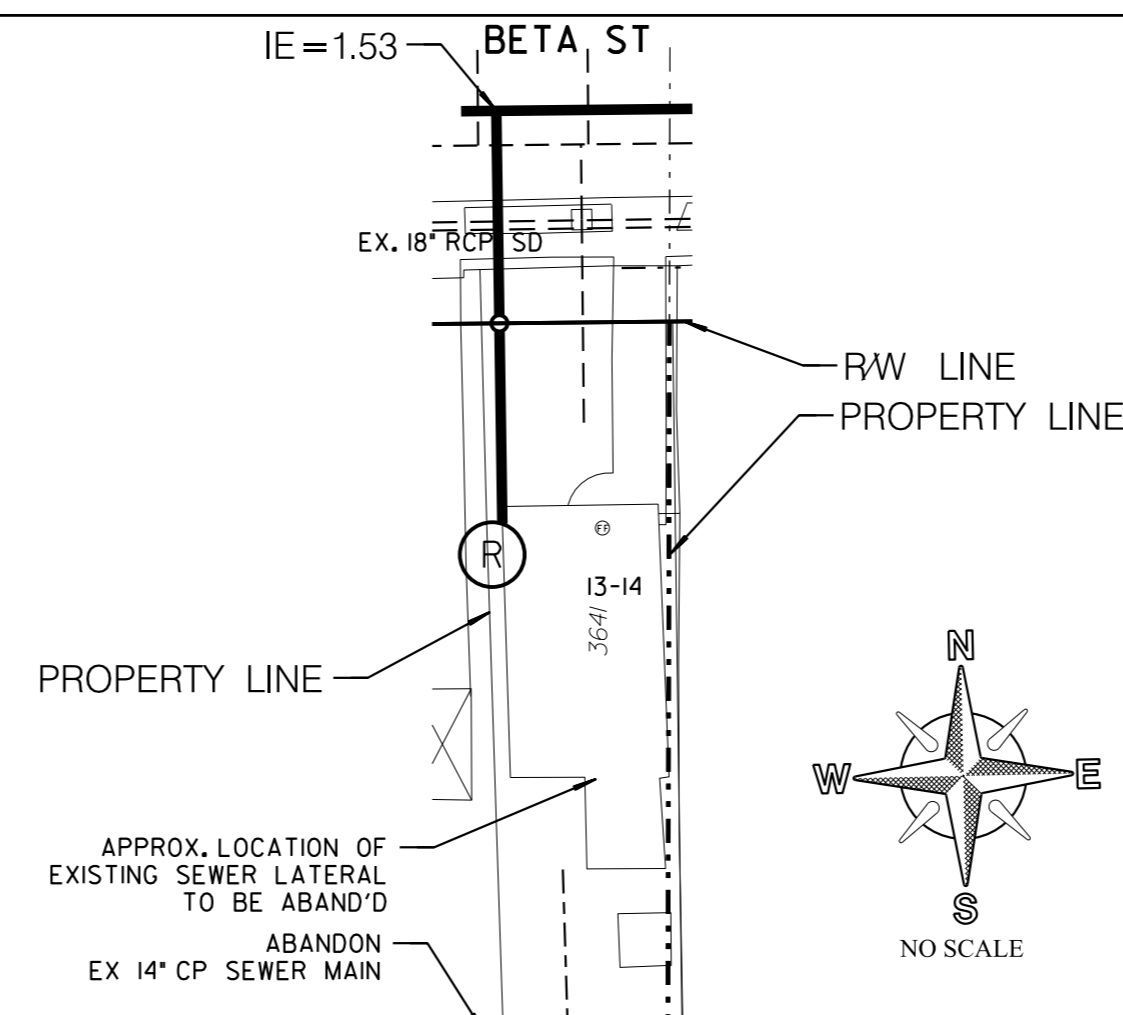
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 53 OF 56 SHEETS		WATER WBS B-18092 SEWER WBS B-18096
APPROVED:	DATE 10/26/2021	SUBMITTED BY: AMY MILLS PROJECT MANAGER
FOR CITY ENGINEER: JANICE JARO	DATE C70770	CHECKED BY: JING DEBELISO PROJECT ENGINEER
PRINT DC&E NAME	RCE#	SEE SHEETS CCS27 COORDINATE
DESCRIPTION	BY	APPROVED
ORIGINAL	JD/DW	
		DATE
		10/26/21
		FILMED
		SEE SHEETS CCS83 COORDINATE
		41338-53-D
CONTRACTOR	NTP DATE	
INSPECTOR	NOC DATE	

BATCH DISCHARGE PLAN



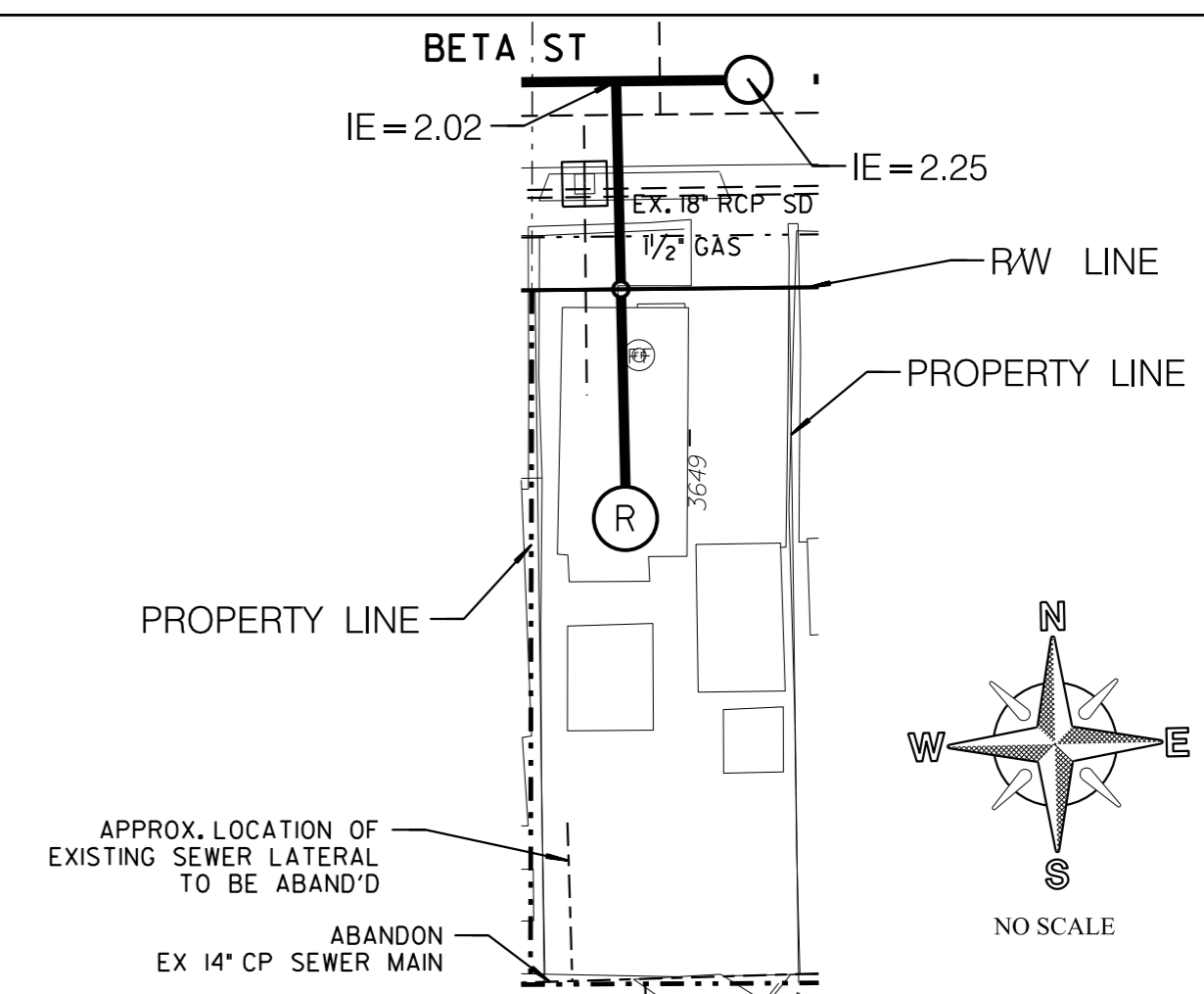
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3631 BETA ST.  
SEE SHEET NO. 27



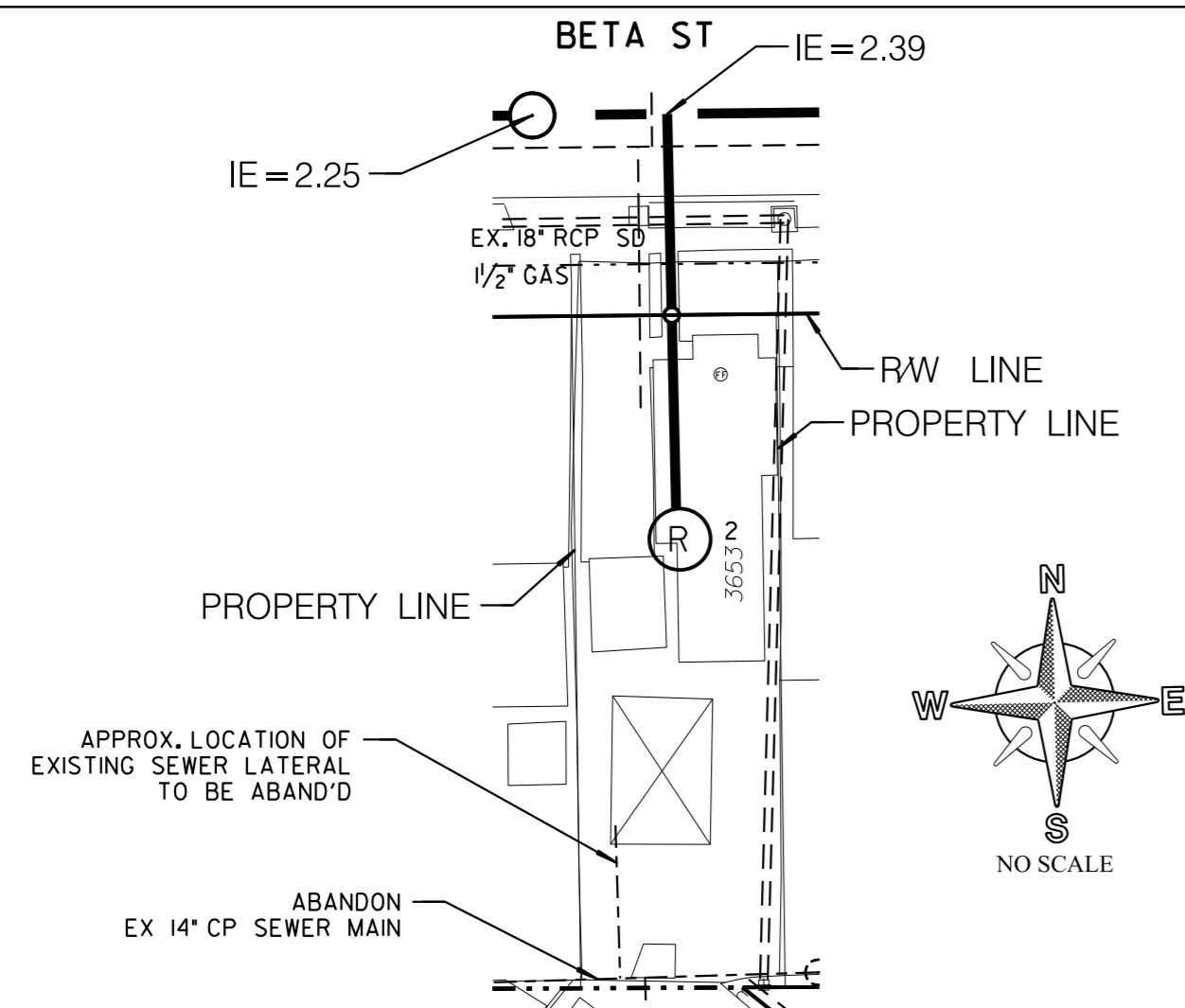
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3641 BETA ST.  
SEE SHEET NO. 27



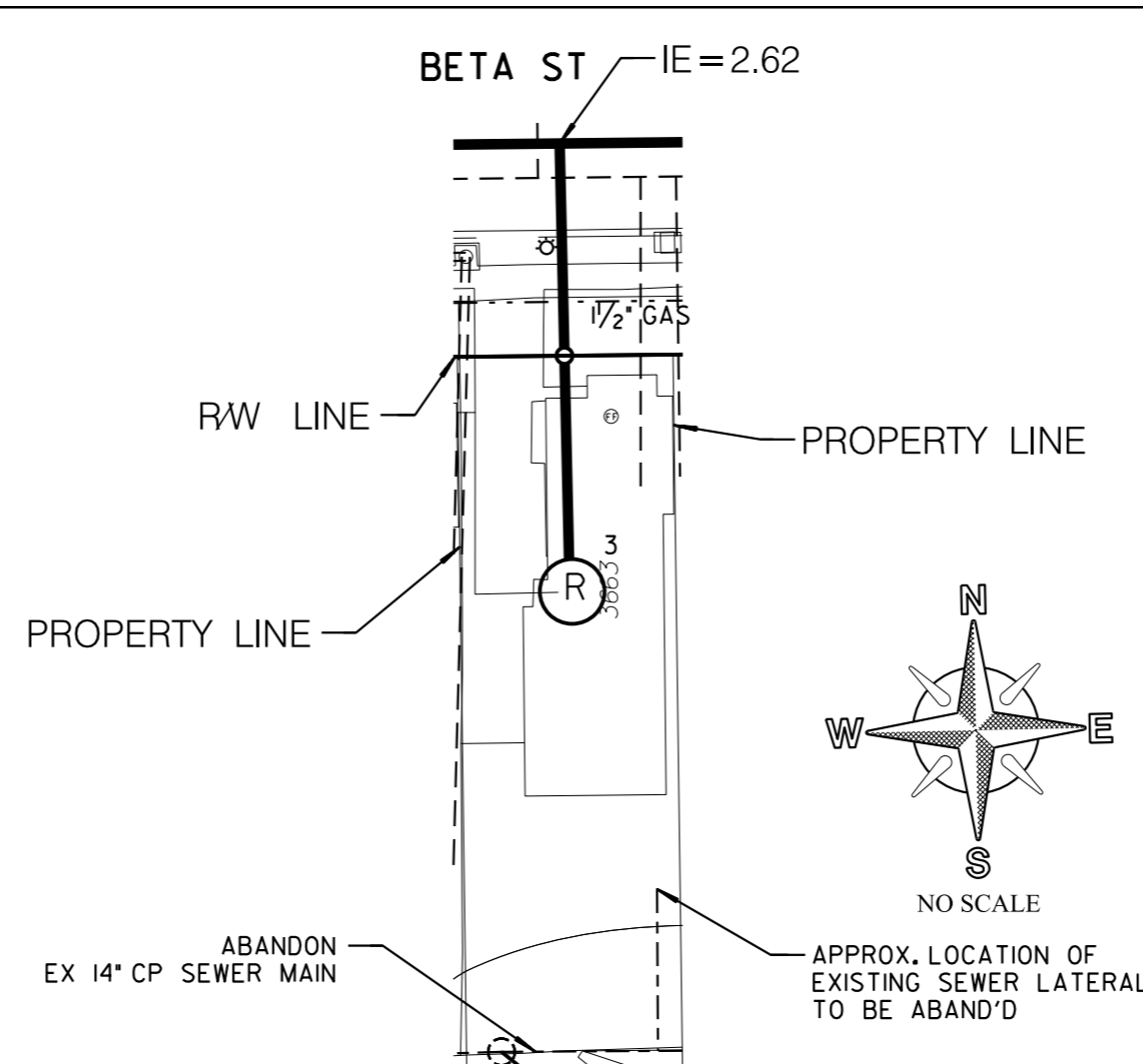
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ADDRESS: 3649 BETA ST.  
SEE SHEET NO. 27



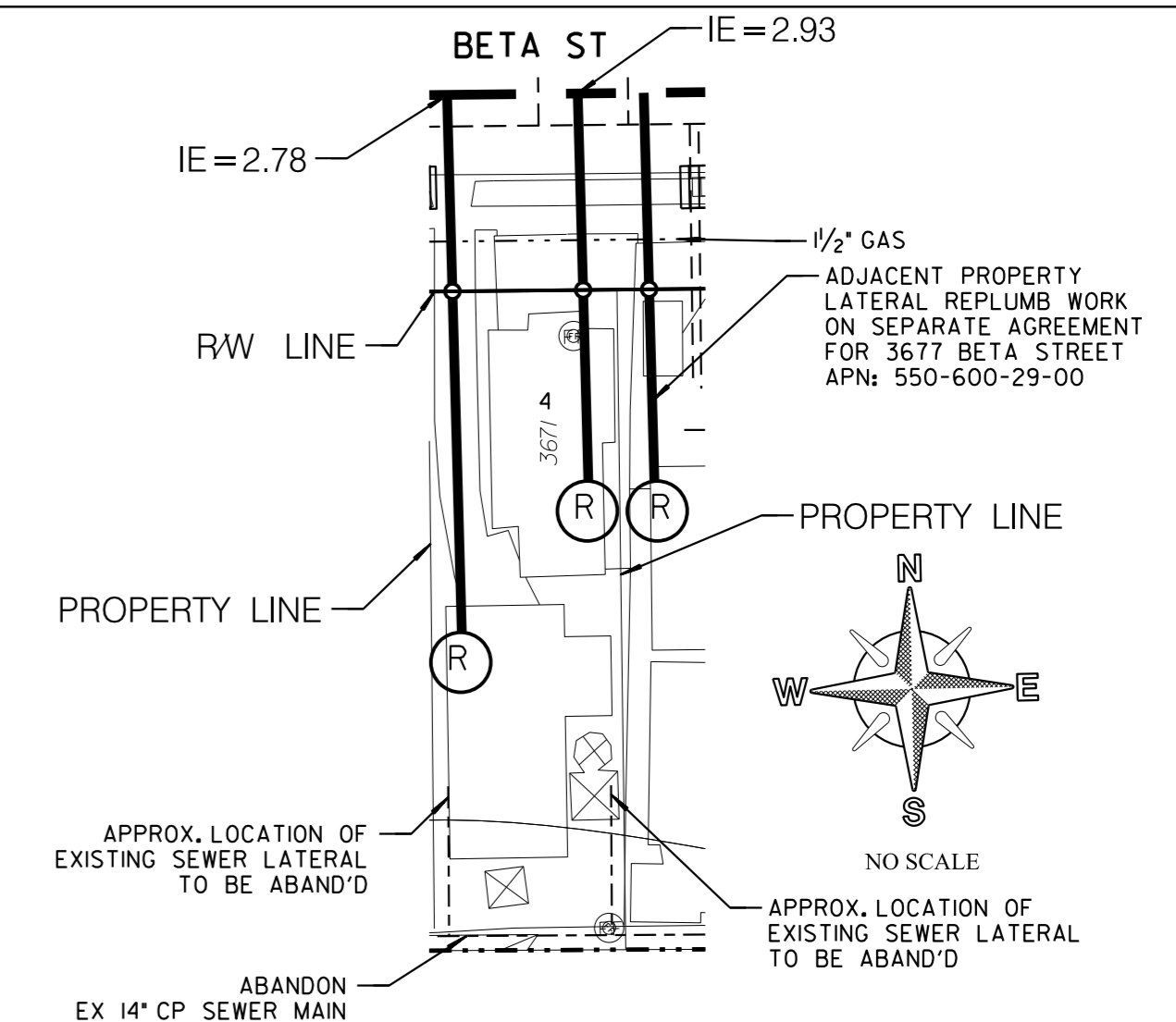
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3653 BETA ST.  
SEE SHEET NO. 27



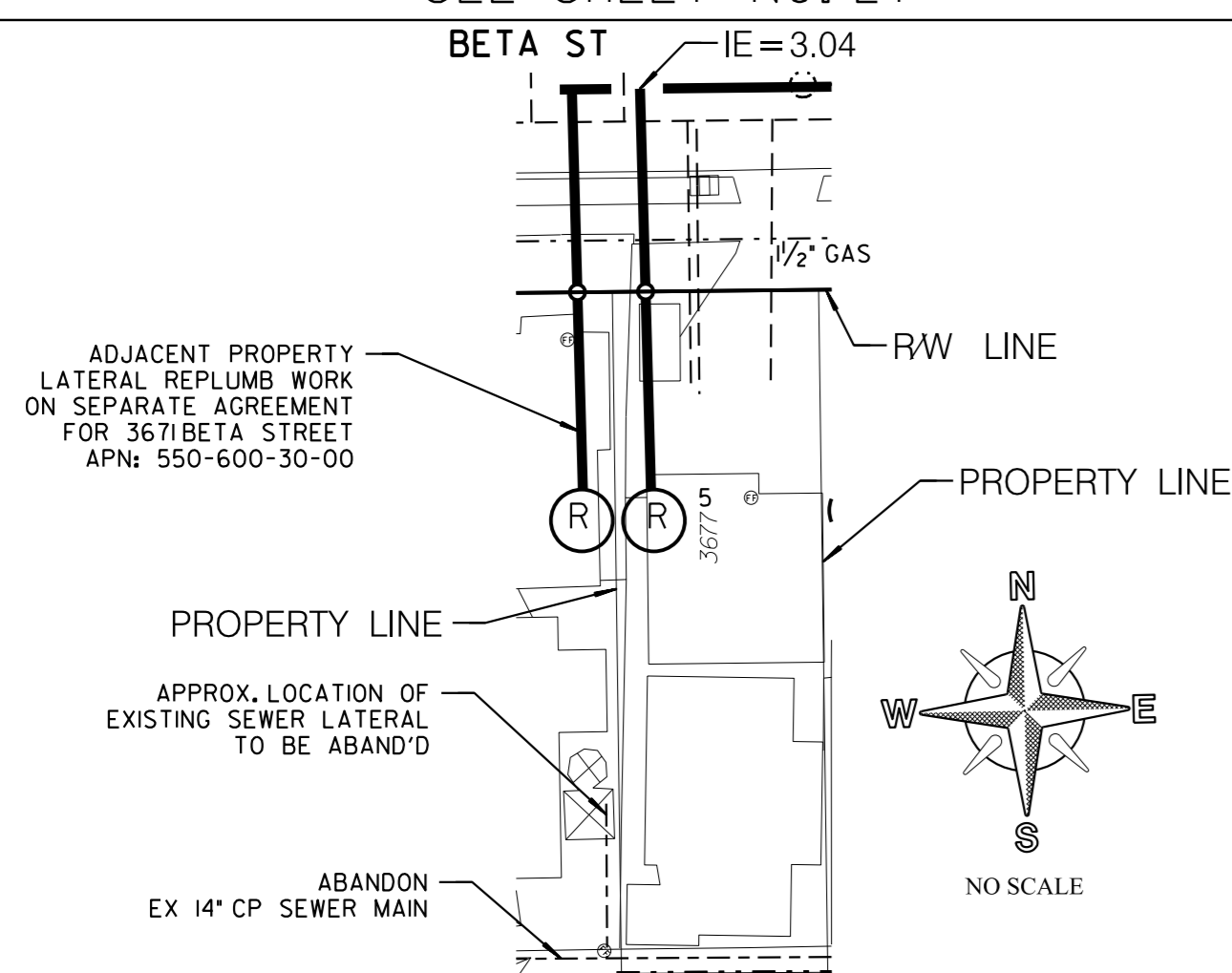
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3663 BETA ST.  
SEE SHEET NO. 27



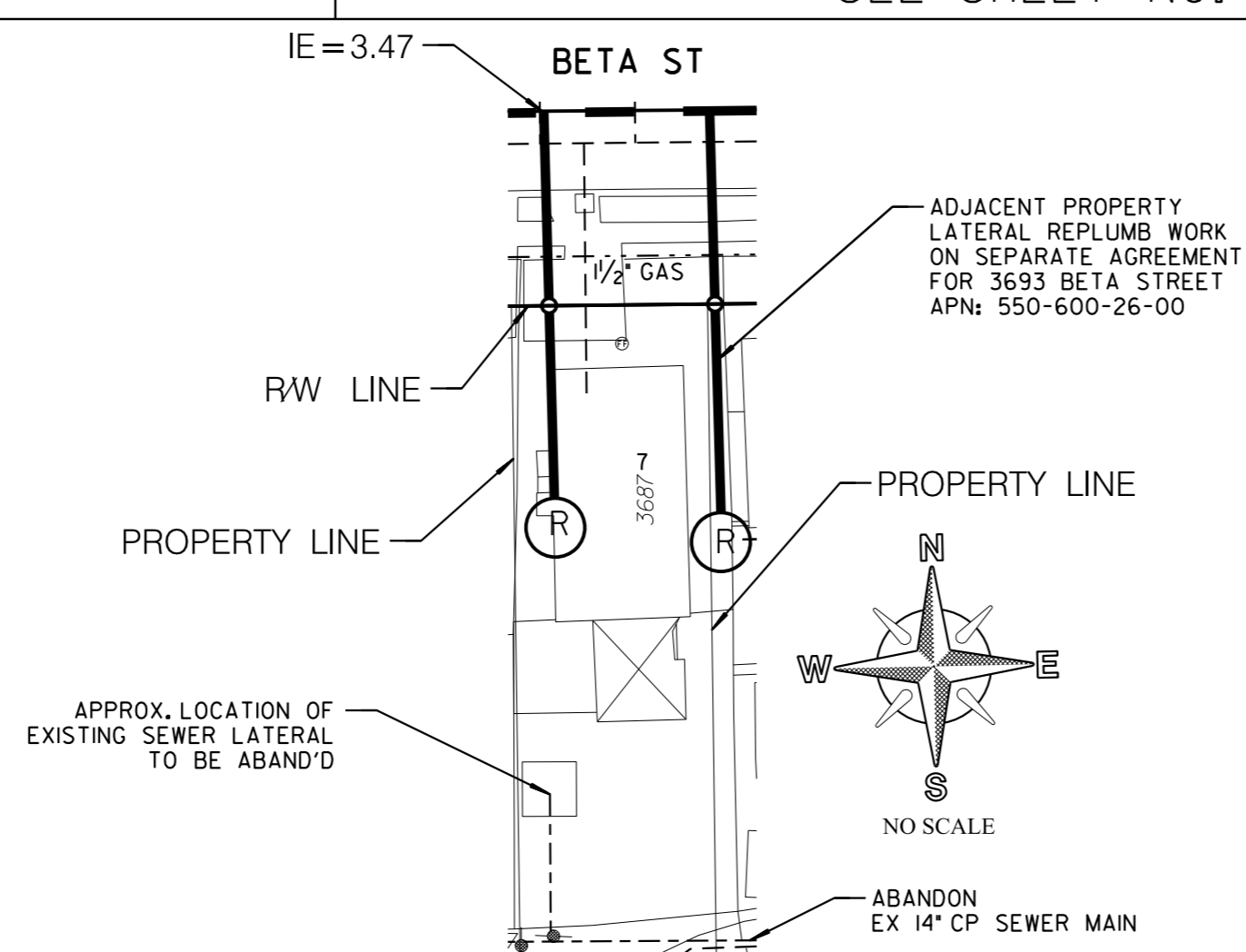
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3671 BETA ST.  
SEE SHEET NO. 27



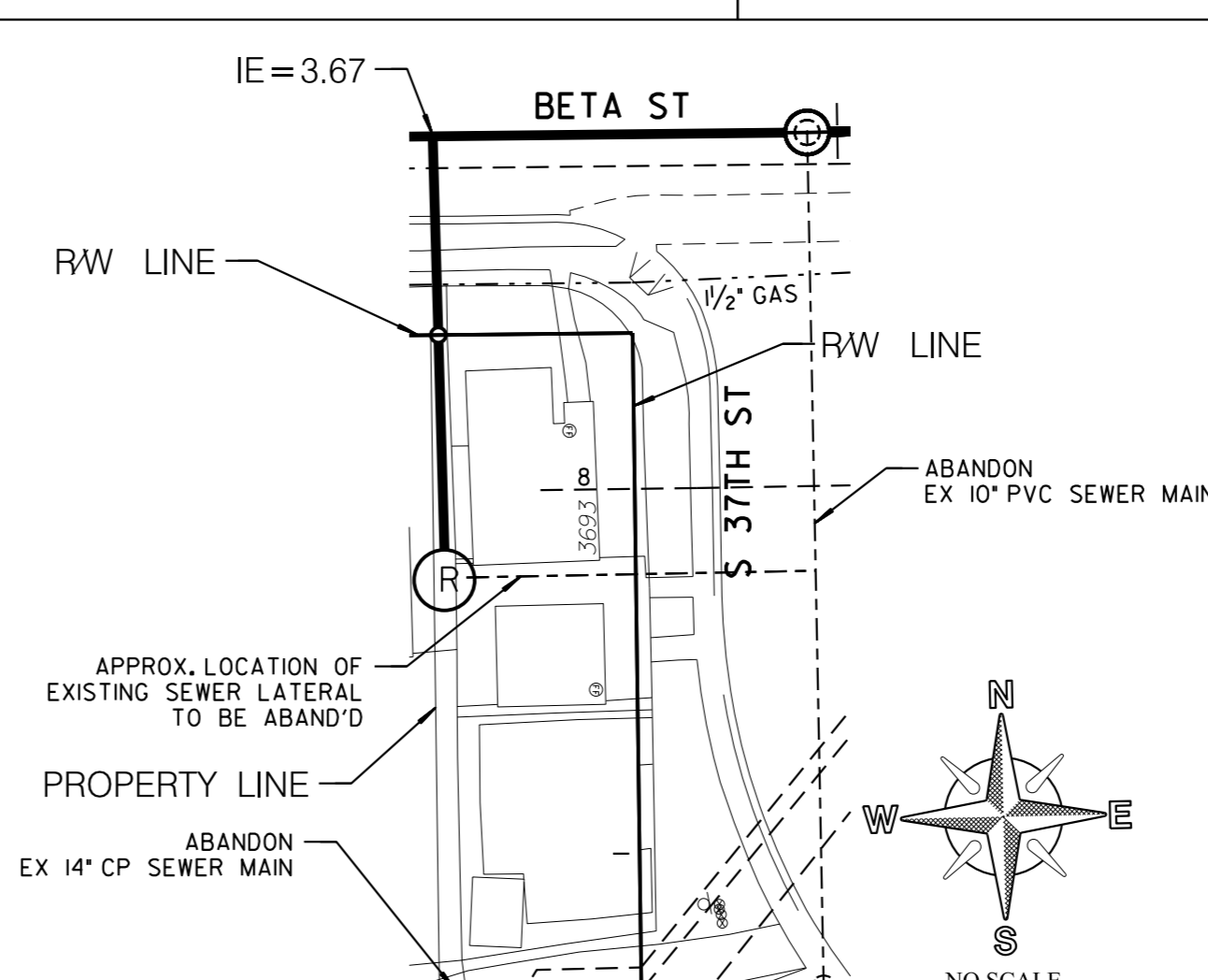
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3677 BETA ST.  
SEE SHEET NO. 27



**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3687 BETA ST.  
SEE SHEET NO. 27



**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3693 BETA ST.  
SEE SHEET NO. 27

**LEGEND:**

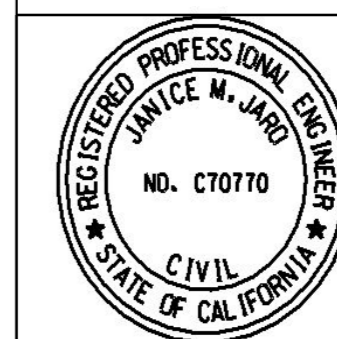
PROPOSED SEWER MAIN	
PROPOSED SEWER MANHOLE	
SEWER LATERAL REPLUMB	
EXISTING SEWER MAIN	
EXISTING SEWER LATERAL	

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**AC WATER & SEWER GROUP 1052  
REPLUMB EXHIBIT**

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 54 OF 56 SHEETS

WATER WBS B-18092  
SEWER WBS B-18096

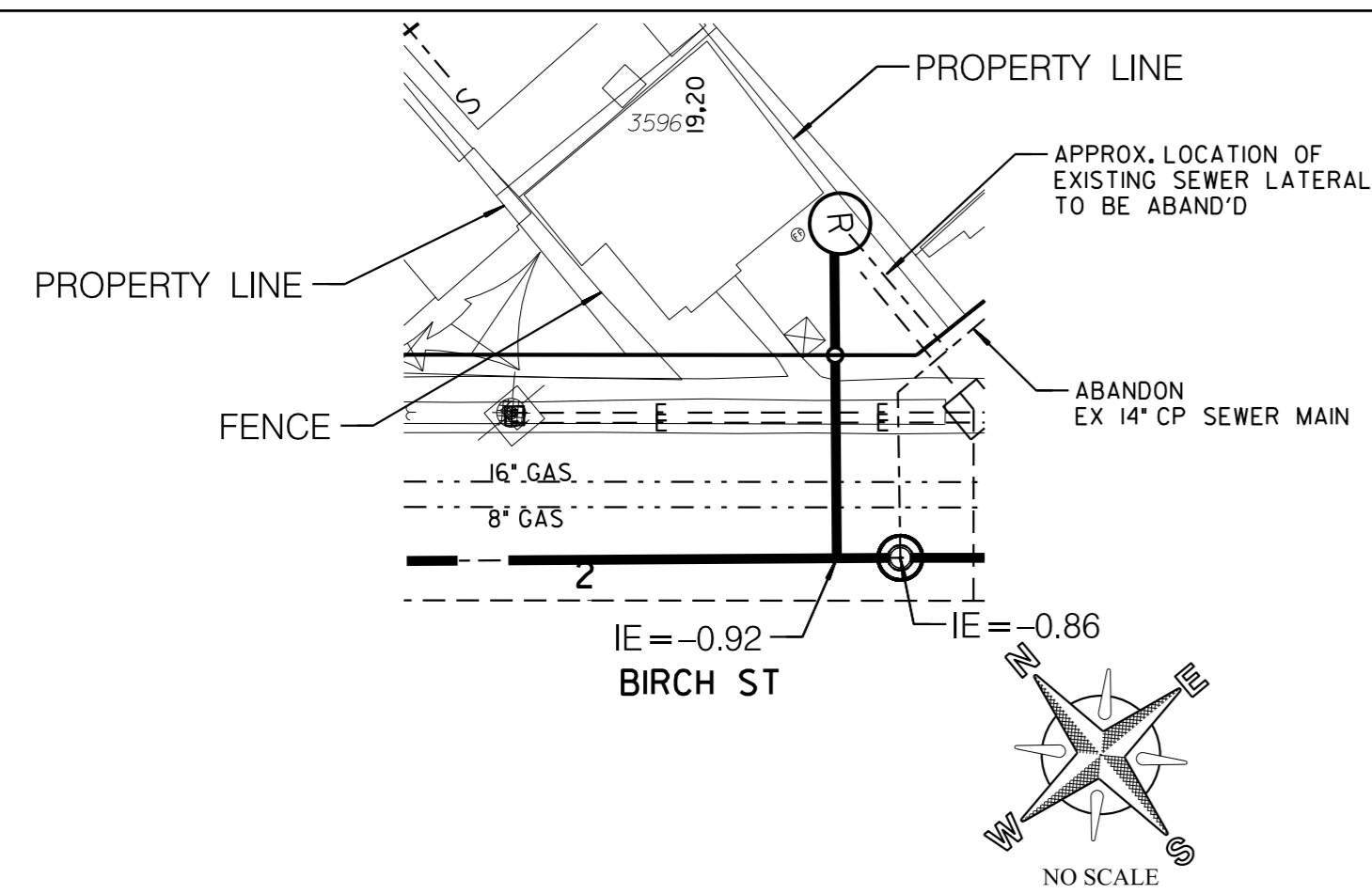


APPROVED:	DATE:	SUBMITTED BY:
<i>[Signature]</i>	10/26/2021	AMY MILLS
FOR CITY ENGINEER	DATE:	PROJECT MANAGER
JANICE JARO	10/26/2021	JING DEBELISO
PRINTED NAME	RCE#	PROJECT ENGINEER
	C70770	SEE SHEETS
		CCS27 COORDINATE
		SEE SHEETS
		CCS83 COORDINATE

CONTRACTOR: \_\_\_\_\_ NTP DATE: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ NOC DATE: \_\_\_\_\_

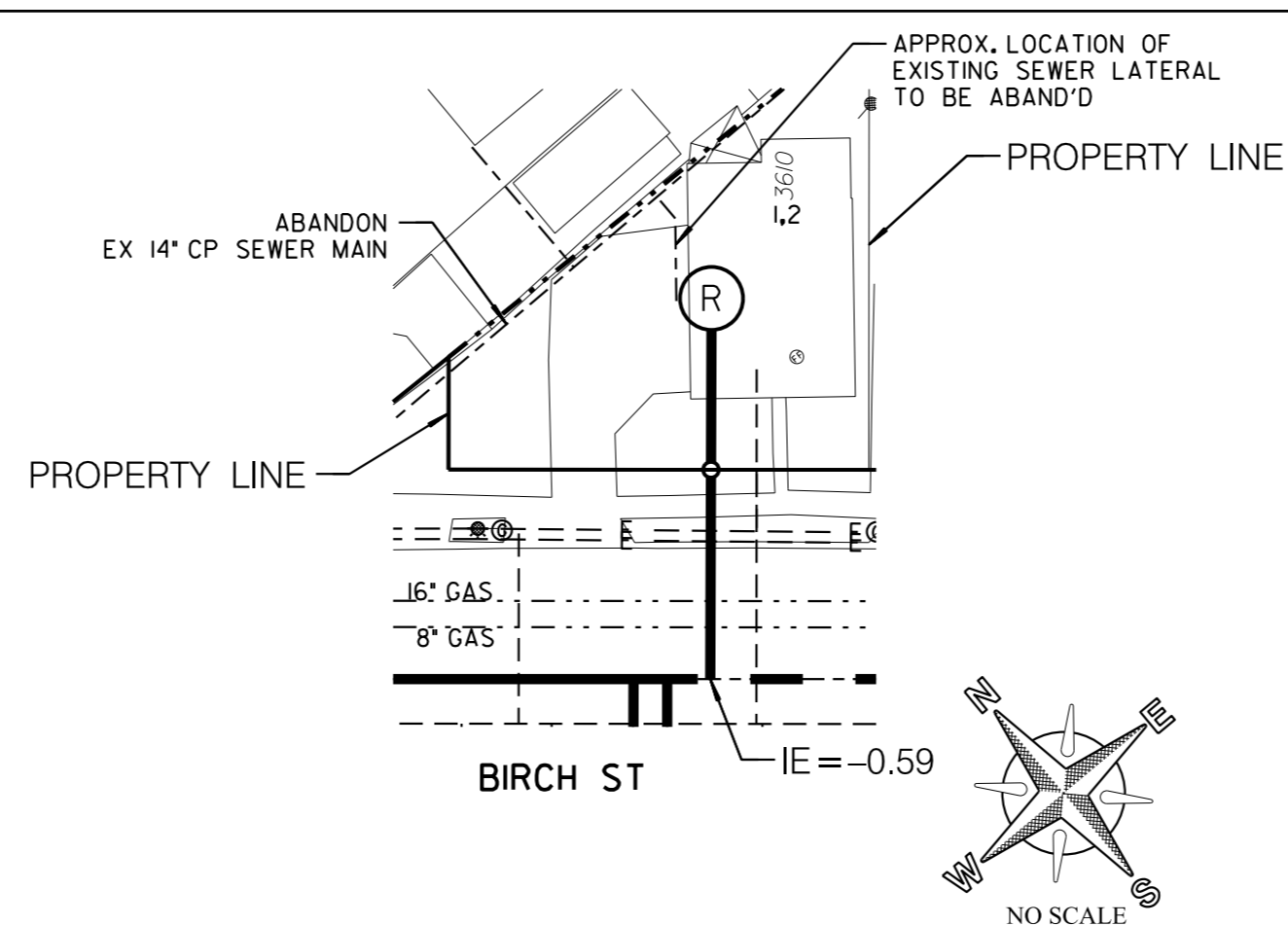
41338-54-D

REPLUMB EXHIBIT



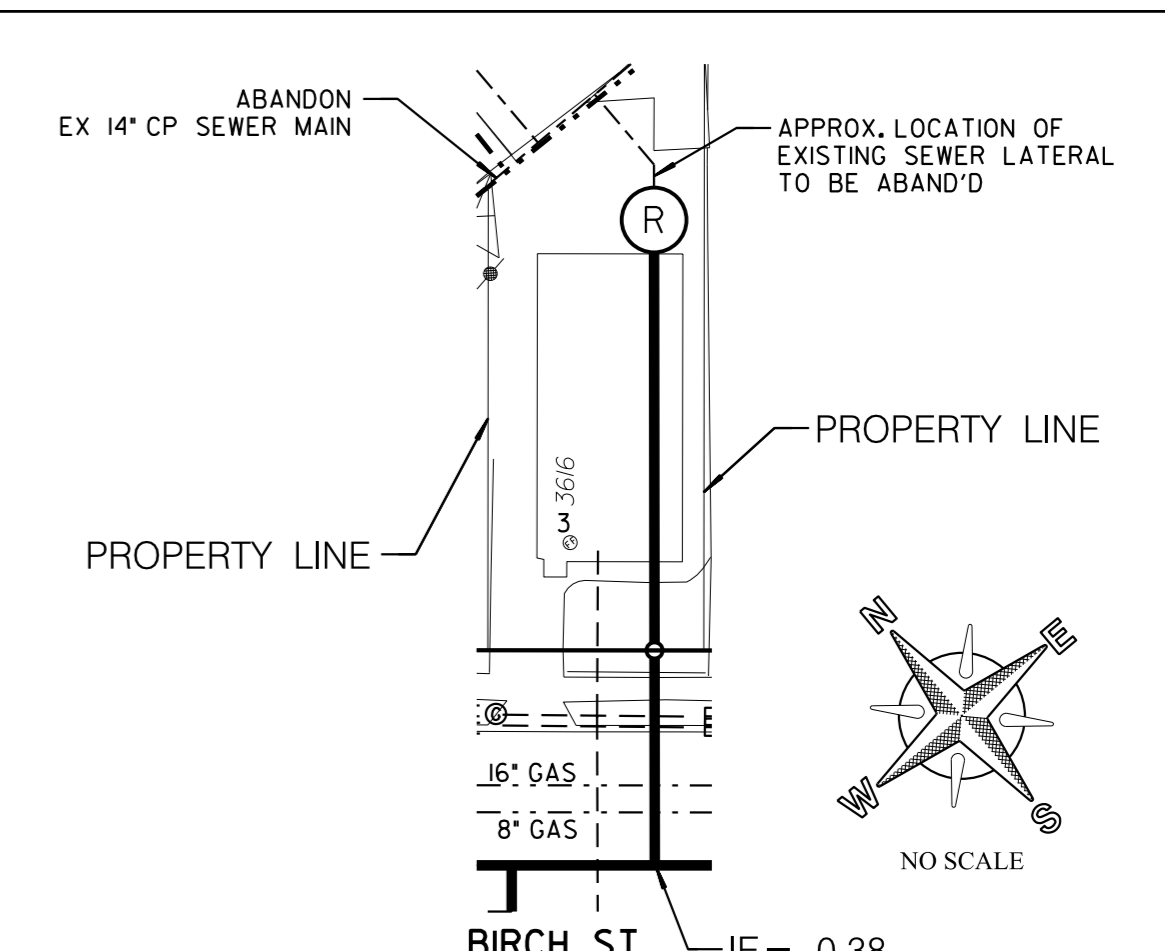
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3596 BIRCH ST.  
SEE SHEET NO. 29



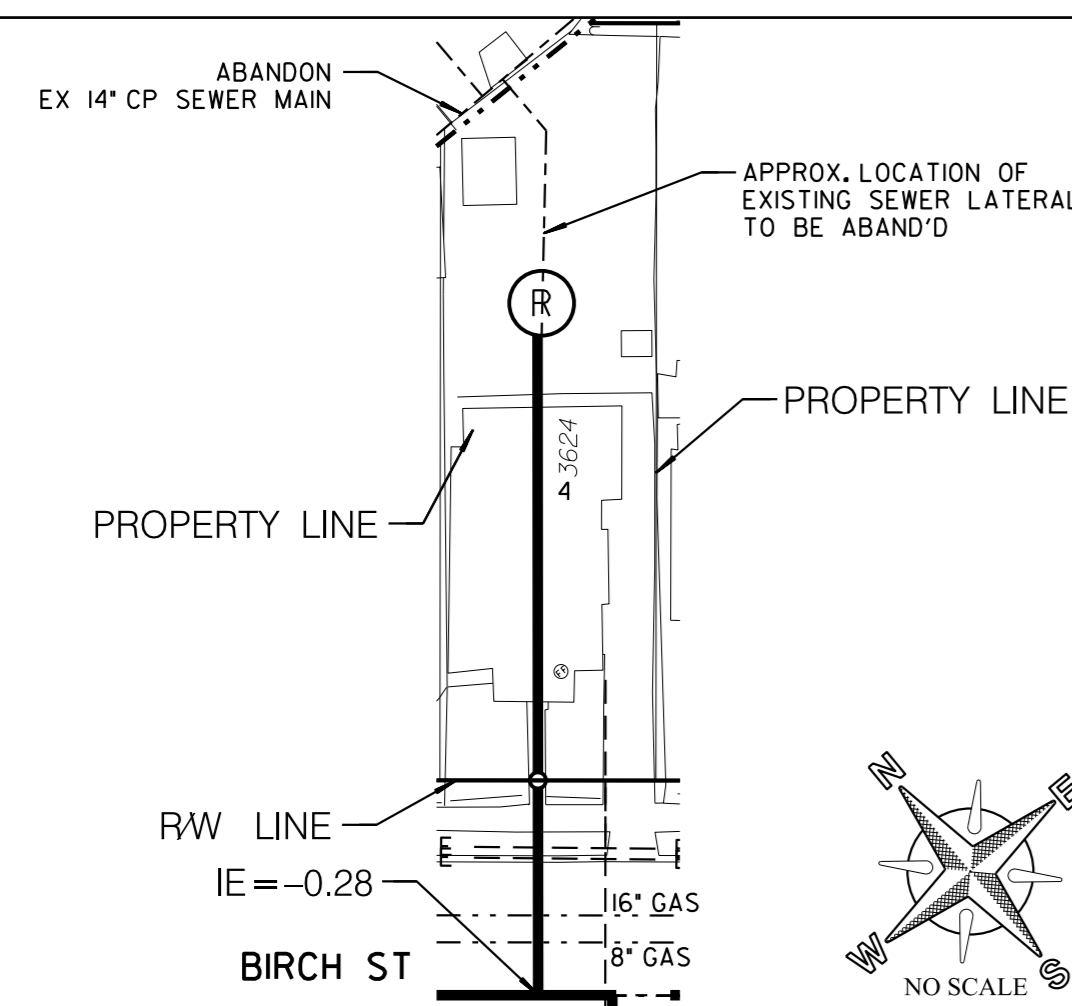
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3610 BIRCH ST.  
SEE SHEET NO. 29



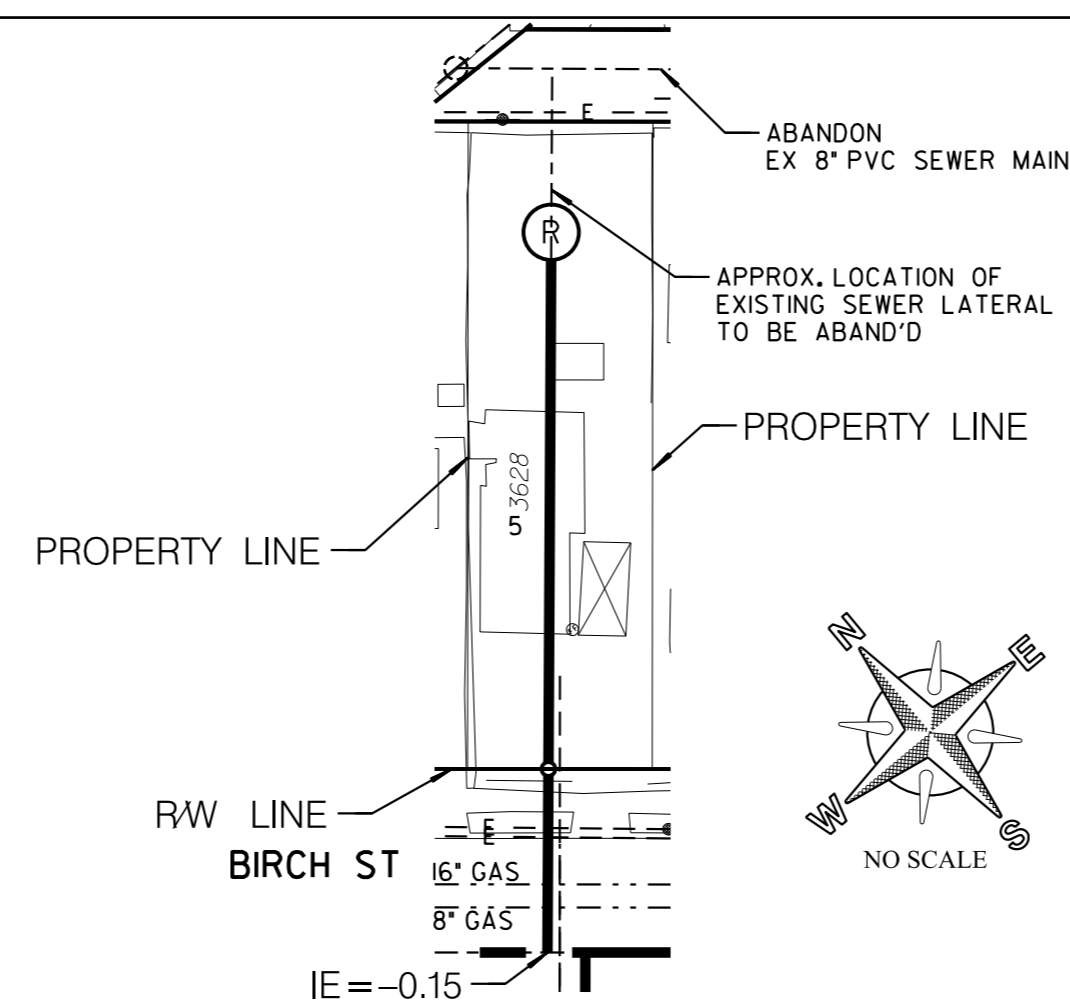
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3616 BIRCH ST.  
SEE SHEET NO. 29



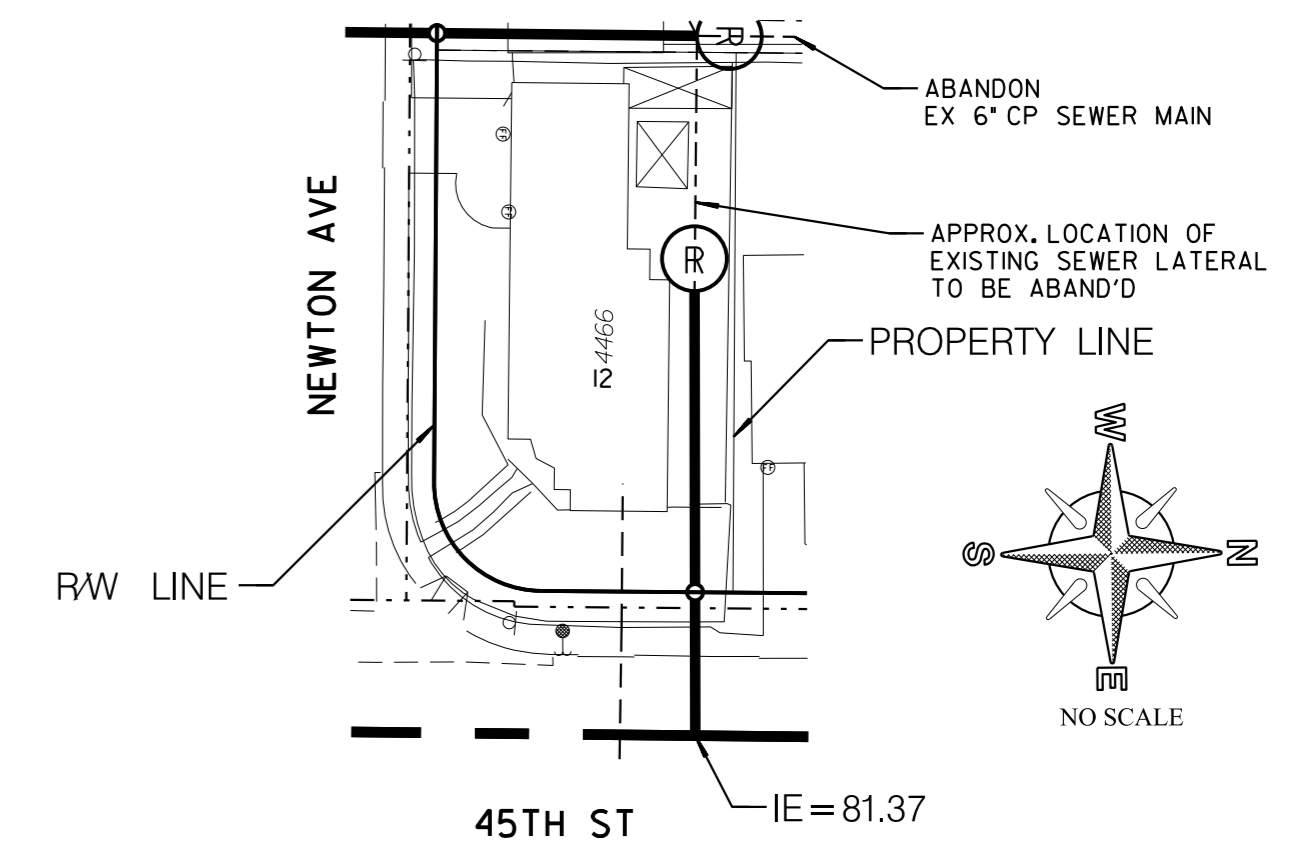
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3624 BIRCH ST.  
SEE SHEET NO. 29



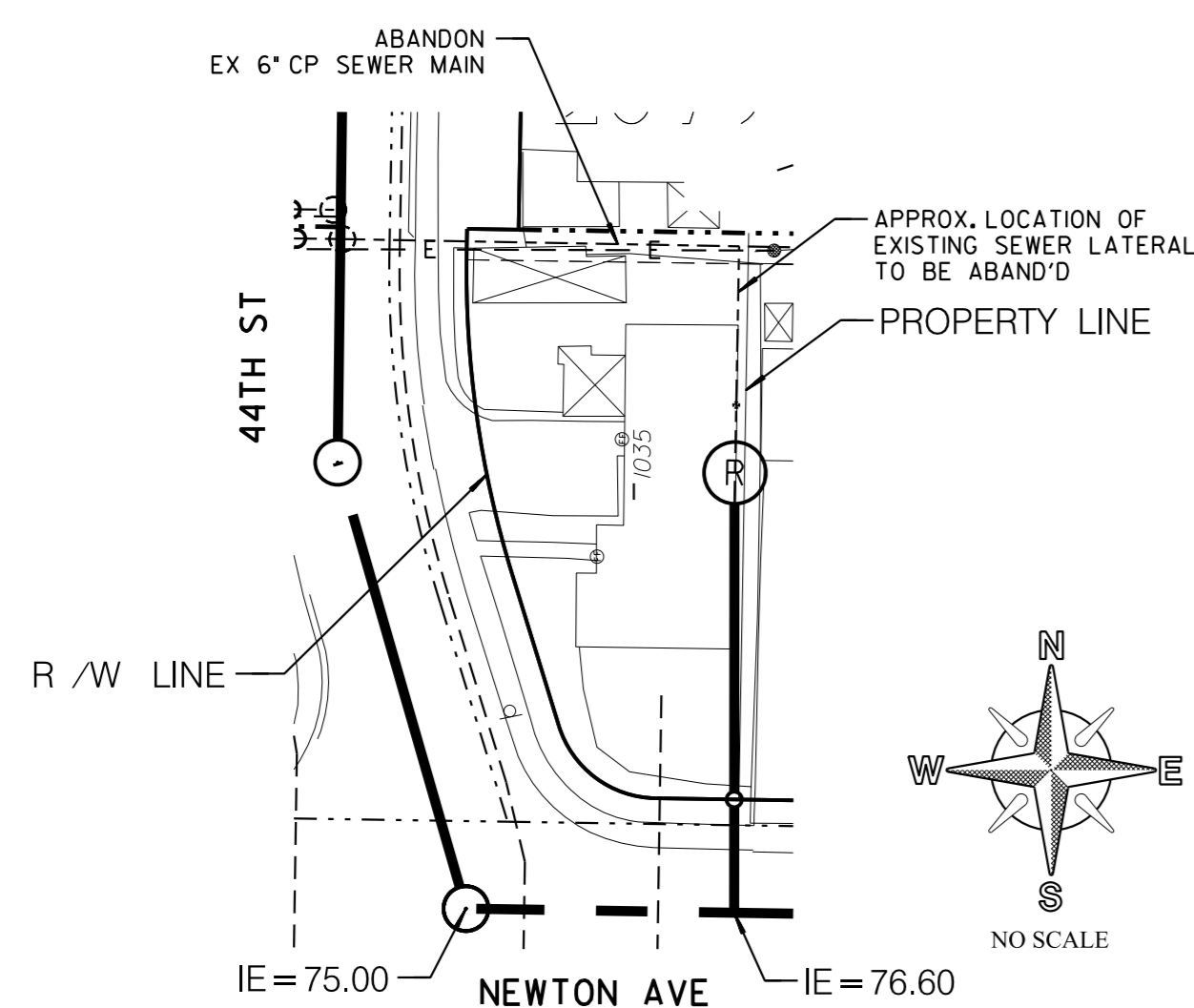
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 3628 BIRCH ST.  
SEE SHEET NO. 29



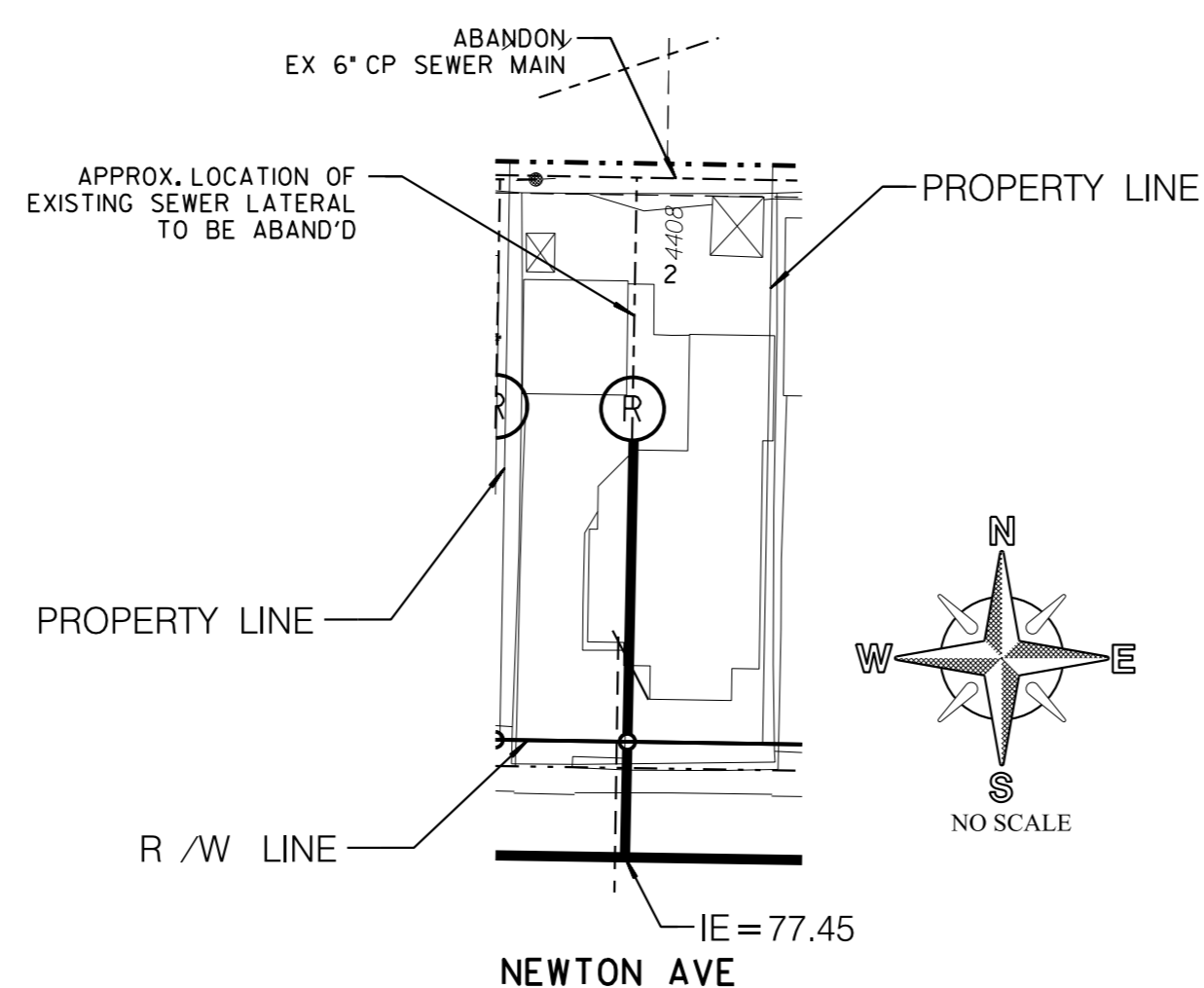
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 4466 NEWTON AVE.  
SEE SHEET NO. 34



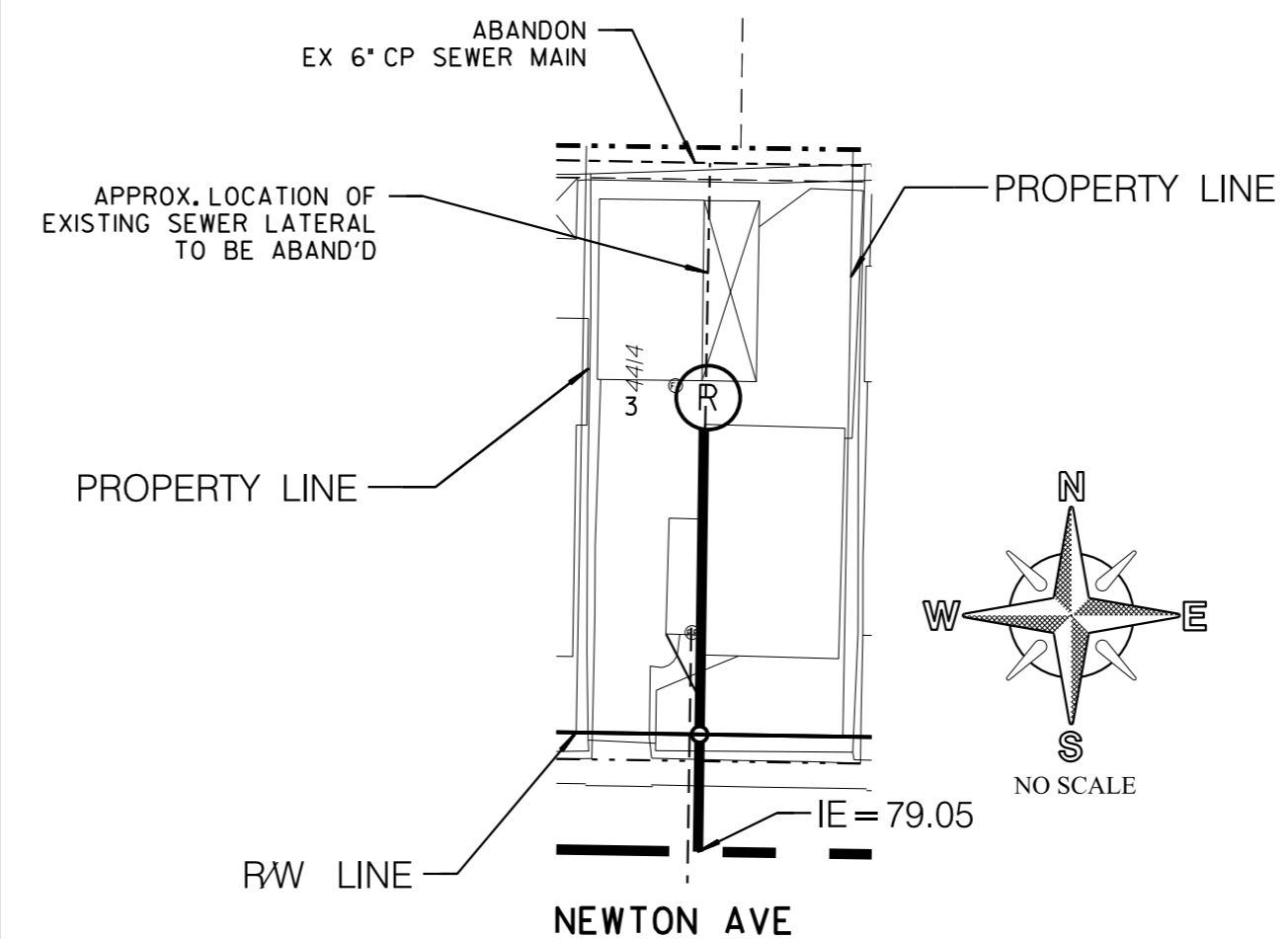
**SEWER LATERAL REPLUMB WORK**

ADDRESS: 1035 S 44TH ST.  
SEE SHEET NO. 33



**SEWER LATERAL REPLUMB WORK**

ADDRESS: 4408 NEWTON AVE.  
SEE SHEET NO. 33



**SEWER LATERAL REPLUMB WORK**

ADDRESS: 4414 NEWTON AVE.  
SEE SHEET NO. 33

**LEGEND:**

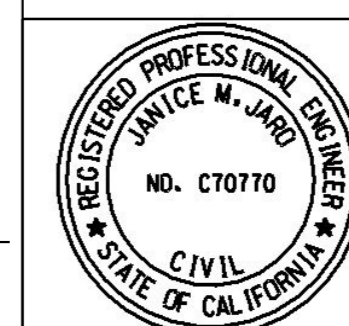
PROPOSED SEWER MAIN	---
PROPOSED SEWER MANHOLE	○
SEWER LATERAL REPLUMB	—(R)—
EXISTING SEWER MAIN	- - -
EXISTING SEWER LATERAL	- - - -

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**AC WATER & SEWER GROUP 1052  
REPLUMB EXHIBIT**

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 55 OF 56 SHEETS

WATER WBS B-18092  
SEWER WBS B-18096



APPROVED: [Signature] DATE: 10/26/2021  
FOR CITY ENGINEER: JANICE JARO DATE: C70770  
PROJECT ENGINEER: JING DEBELISO  
PROJECT MANAGER: AMY MILLS

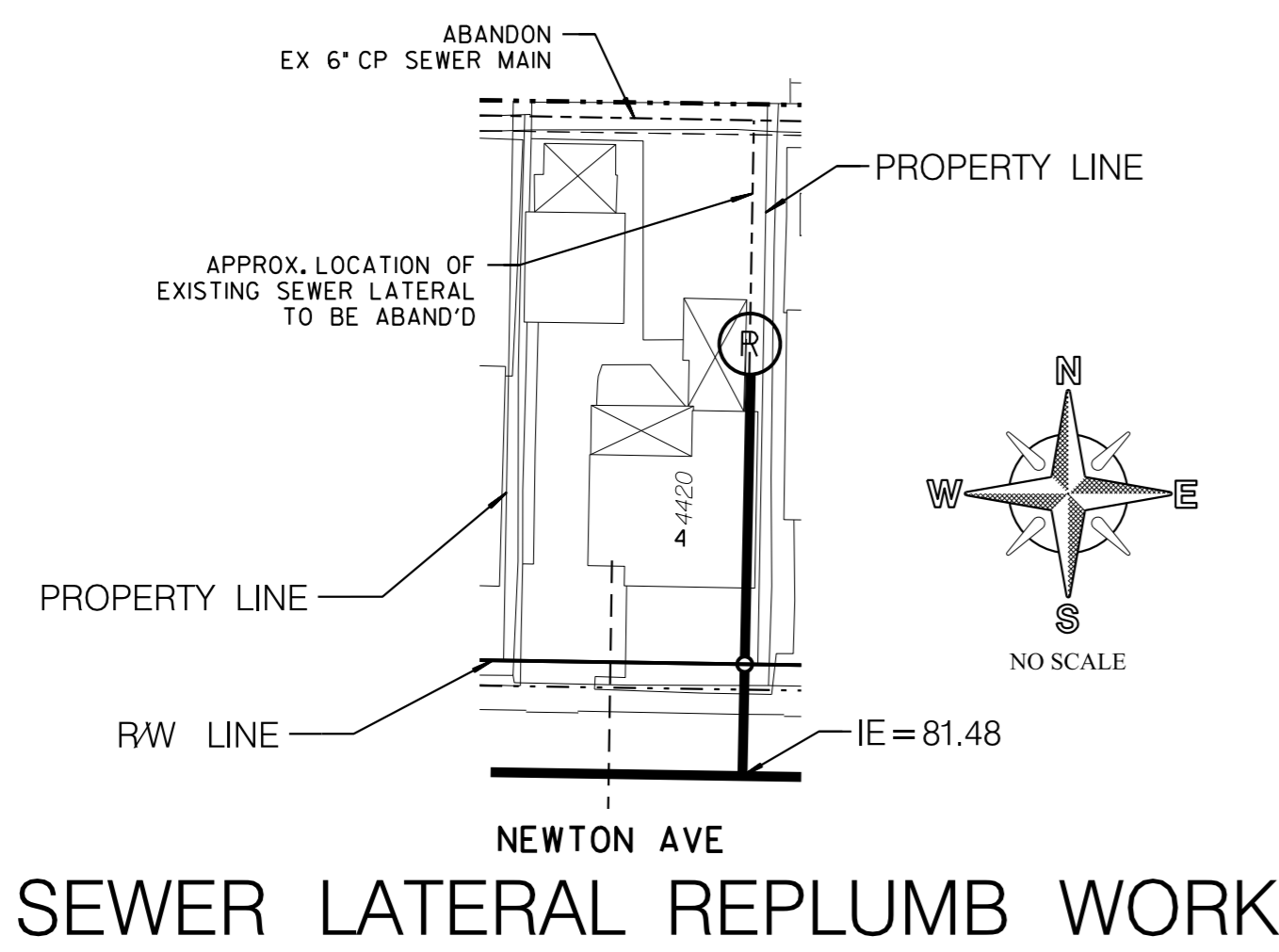
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW	[Signature]	10/26/21	

SEE SHEETS  
CCS27 COORDINATE  
SEE SHEETS  
CCS83 COORDINATE

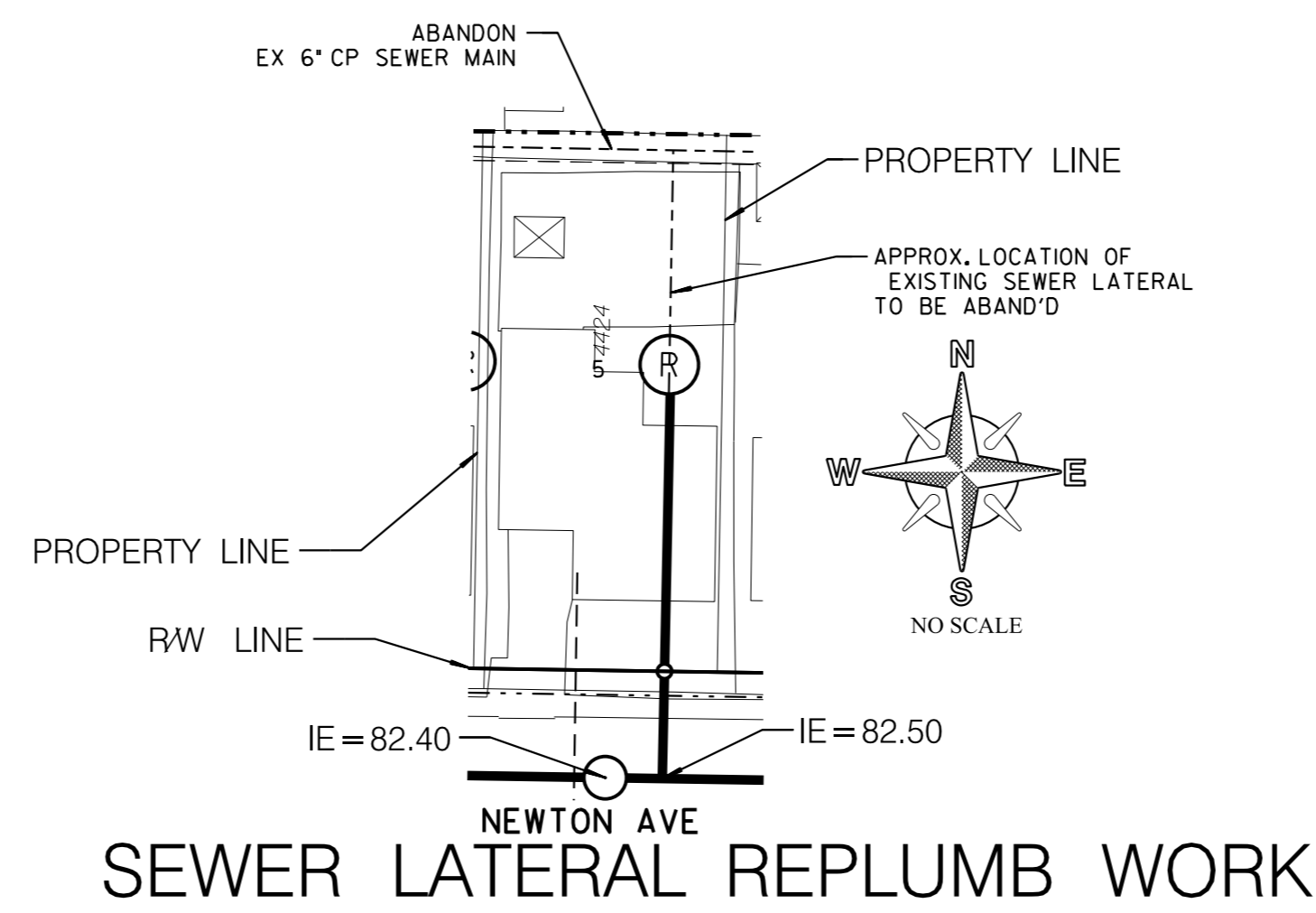
CONTRACTOR: \_\_\_\_\_ NTP DATE: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ NOC DATE: \_\_\_\_\_

41338-55-D

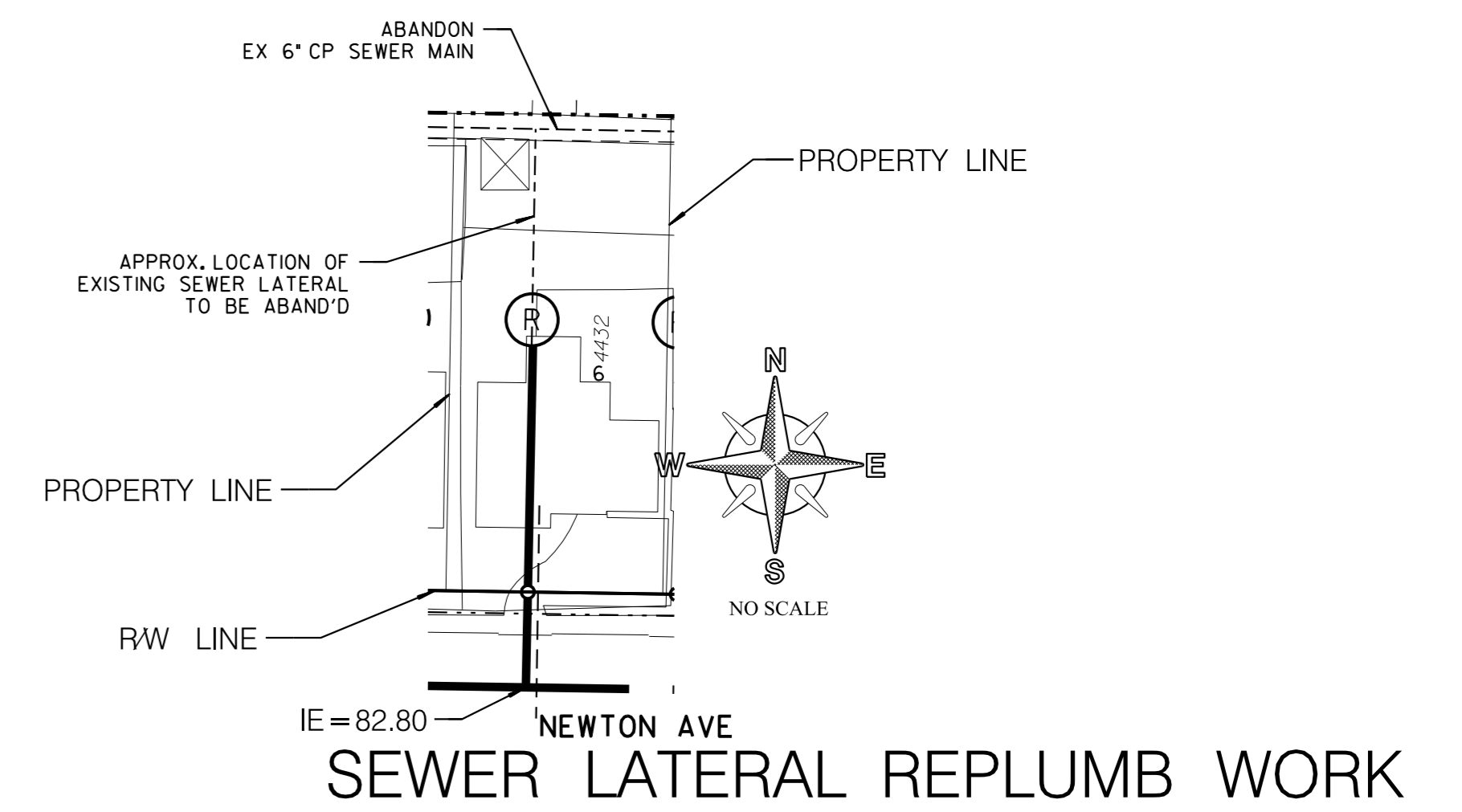
REPLUMB EXHIBIT



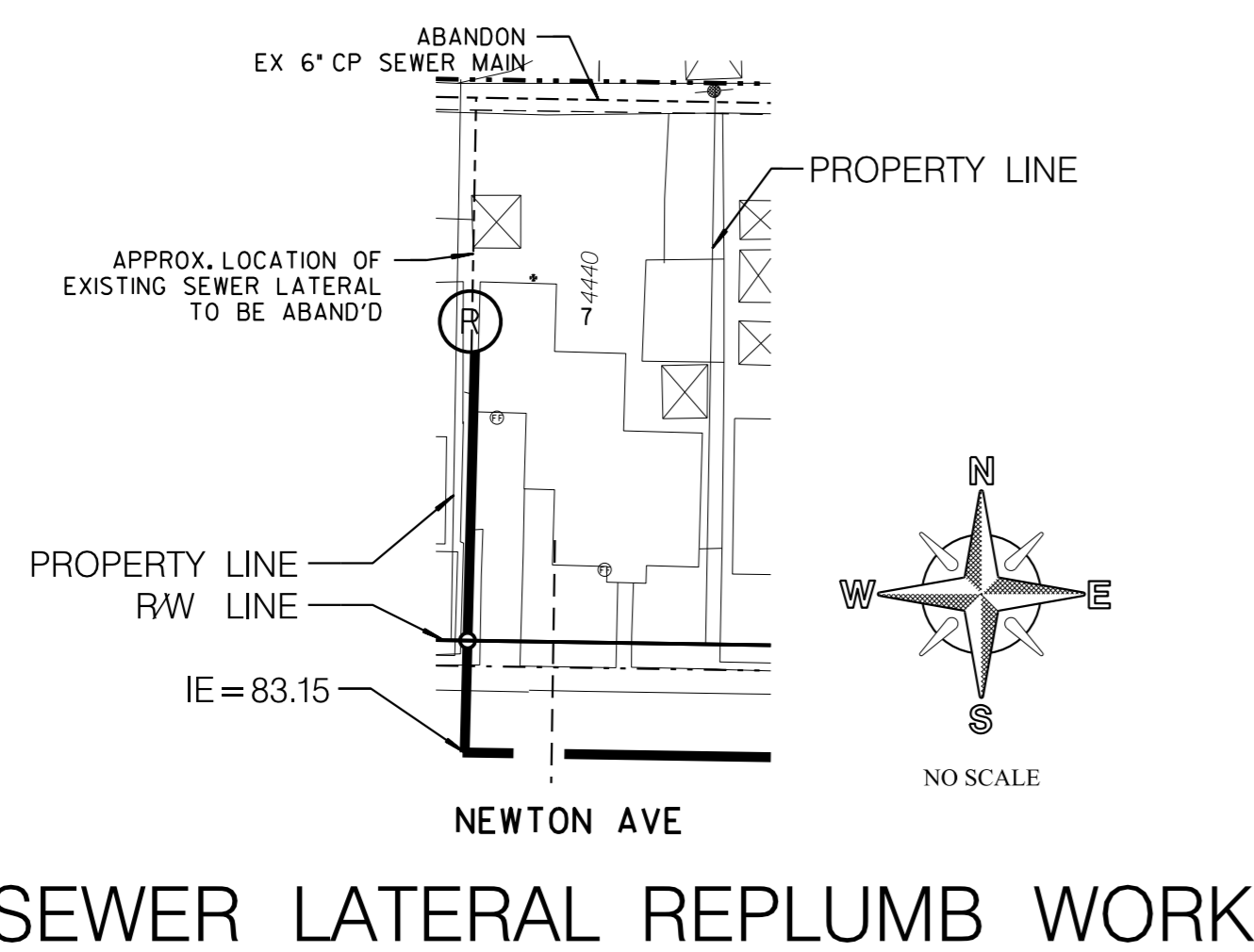
**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 4420 NEWTON AVE.  
 SEE SHEET NO. 33



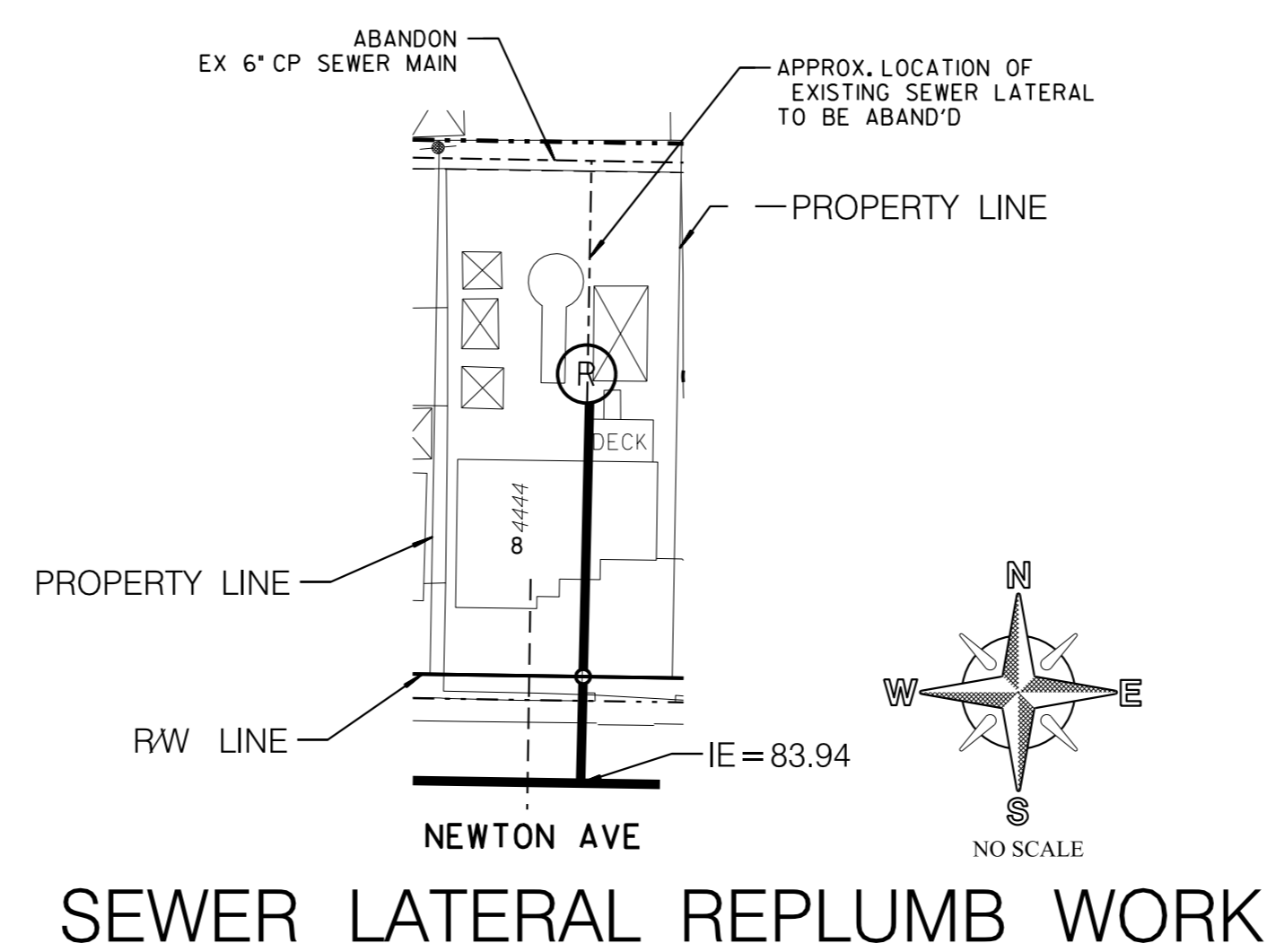
**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 4424 NEWTON AVE.  
 SEE SHEET NO. 33



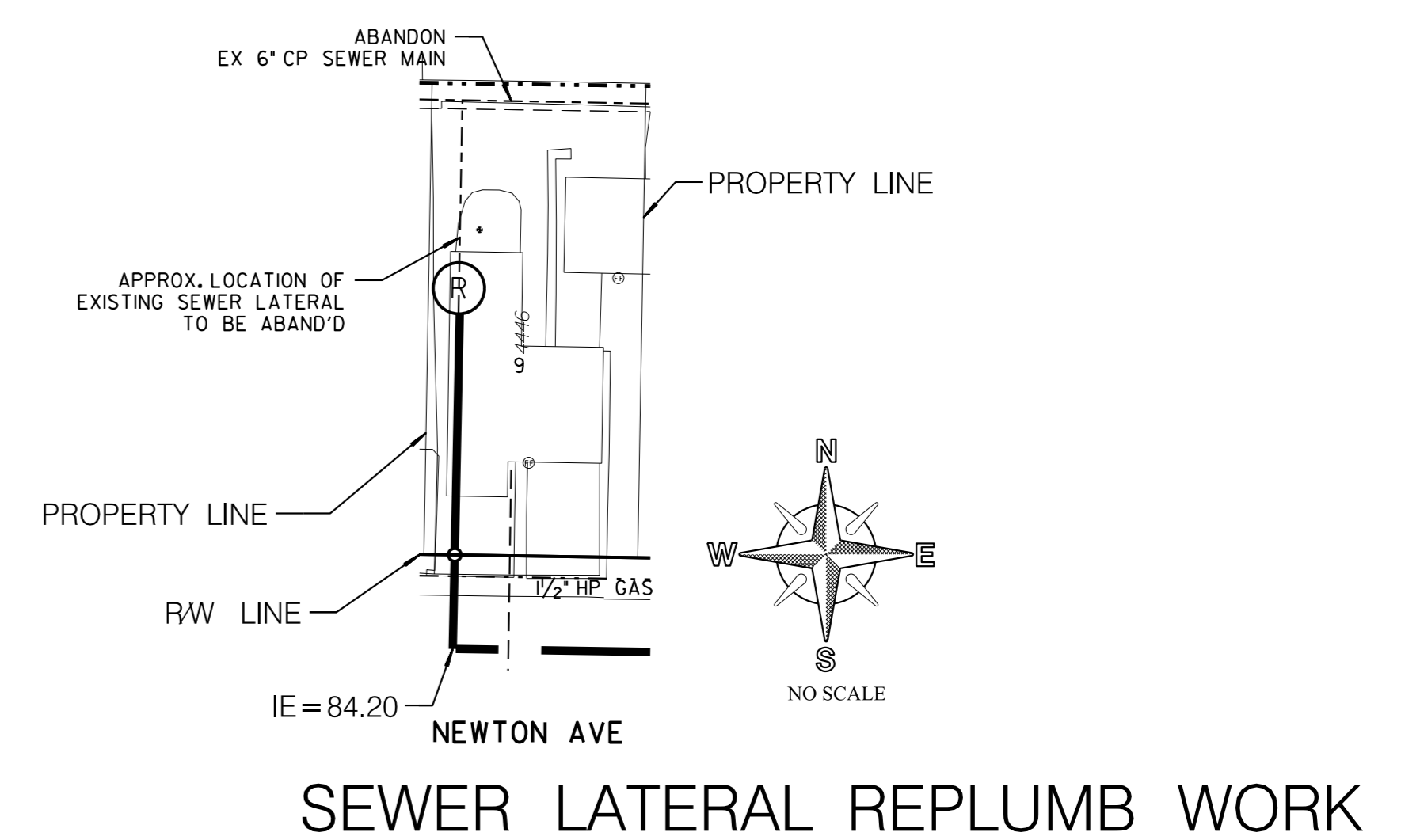
**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 4432 NEWTON AVE.  
 SEE SHEET NO. 33



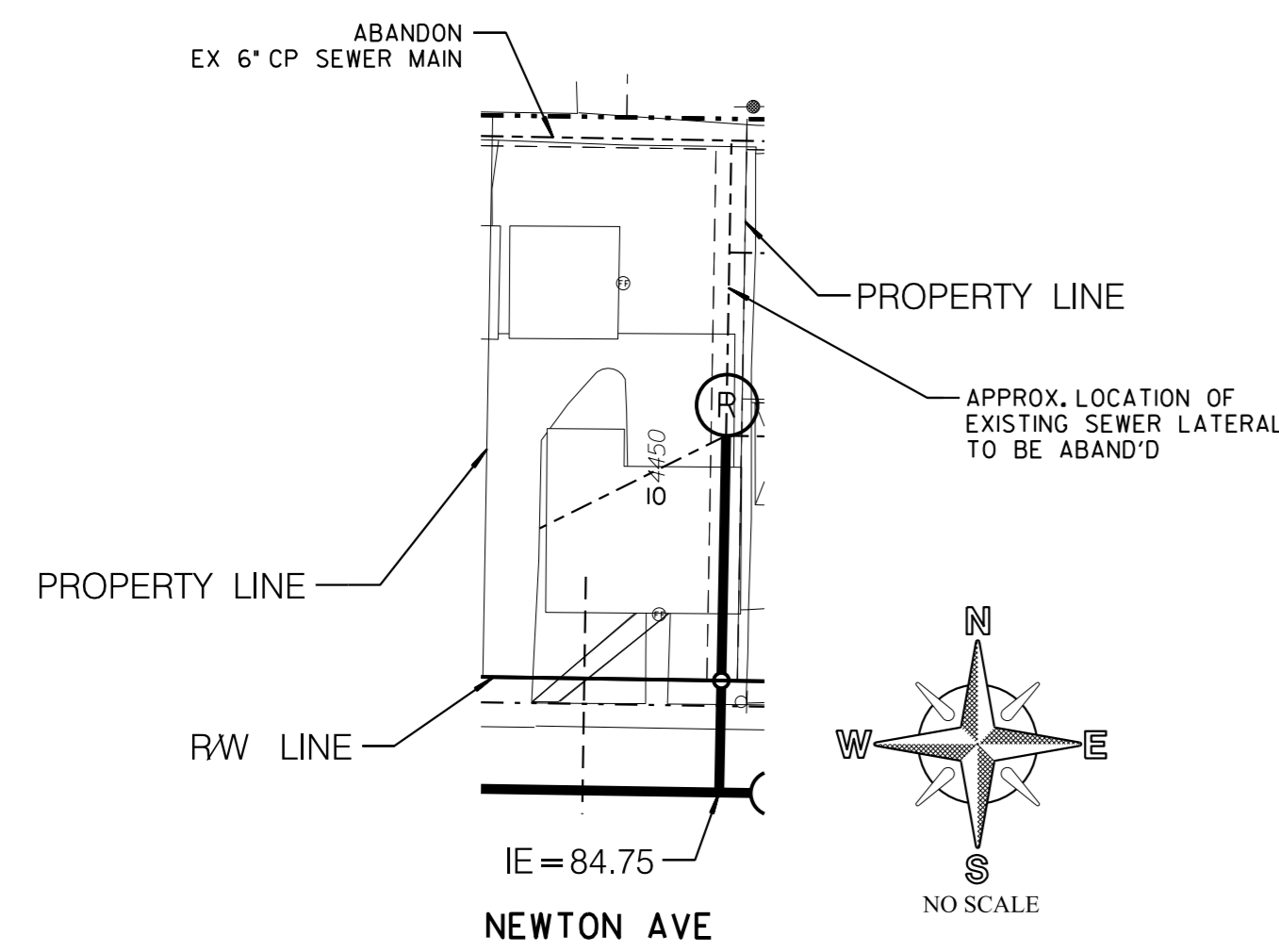
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 ADDRESS: 4440 NEWTON AVE.  
 SEE SHEET NO. 33



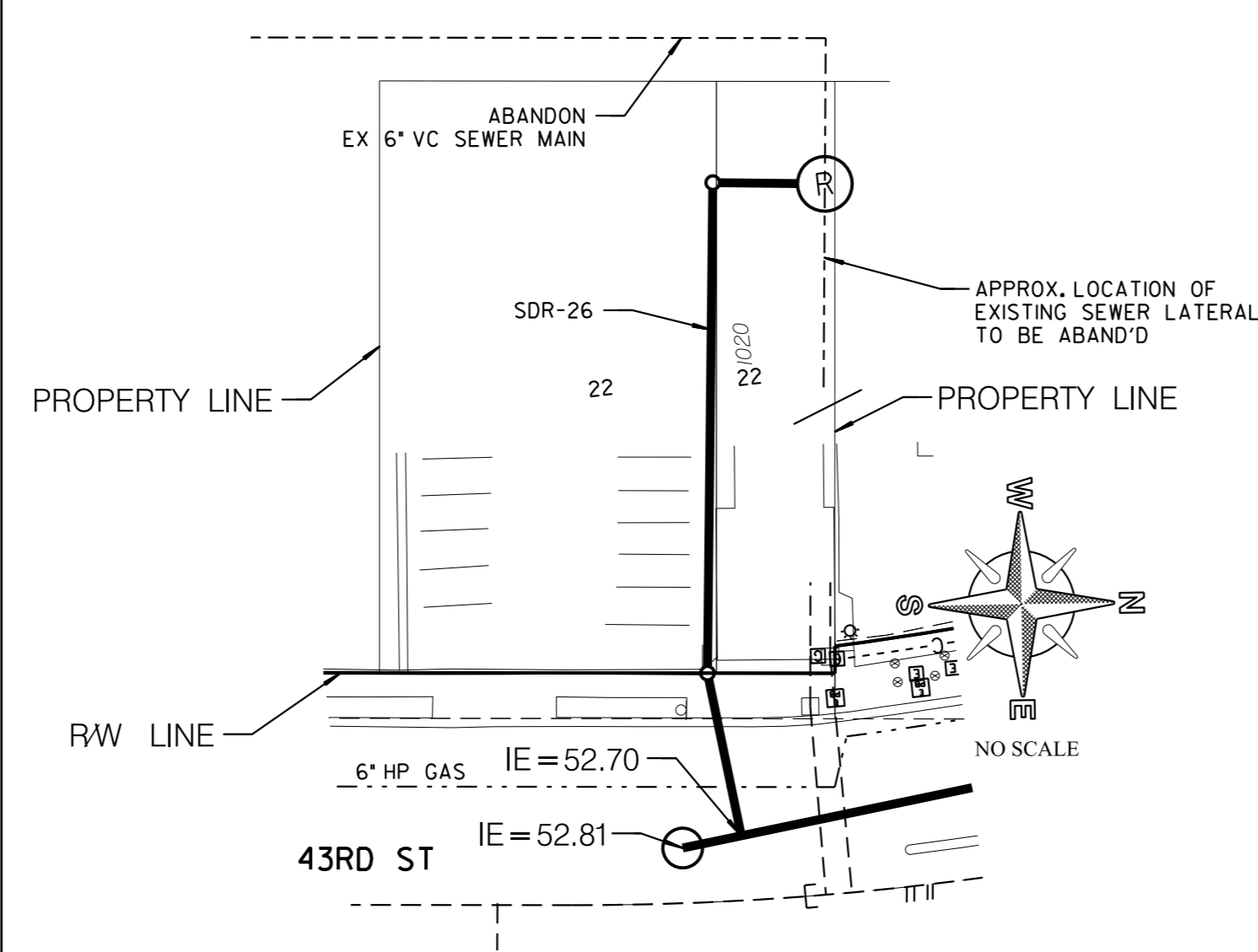
**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 4444 NEWTON AVE.  
 SEE SHEET NO. 33



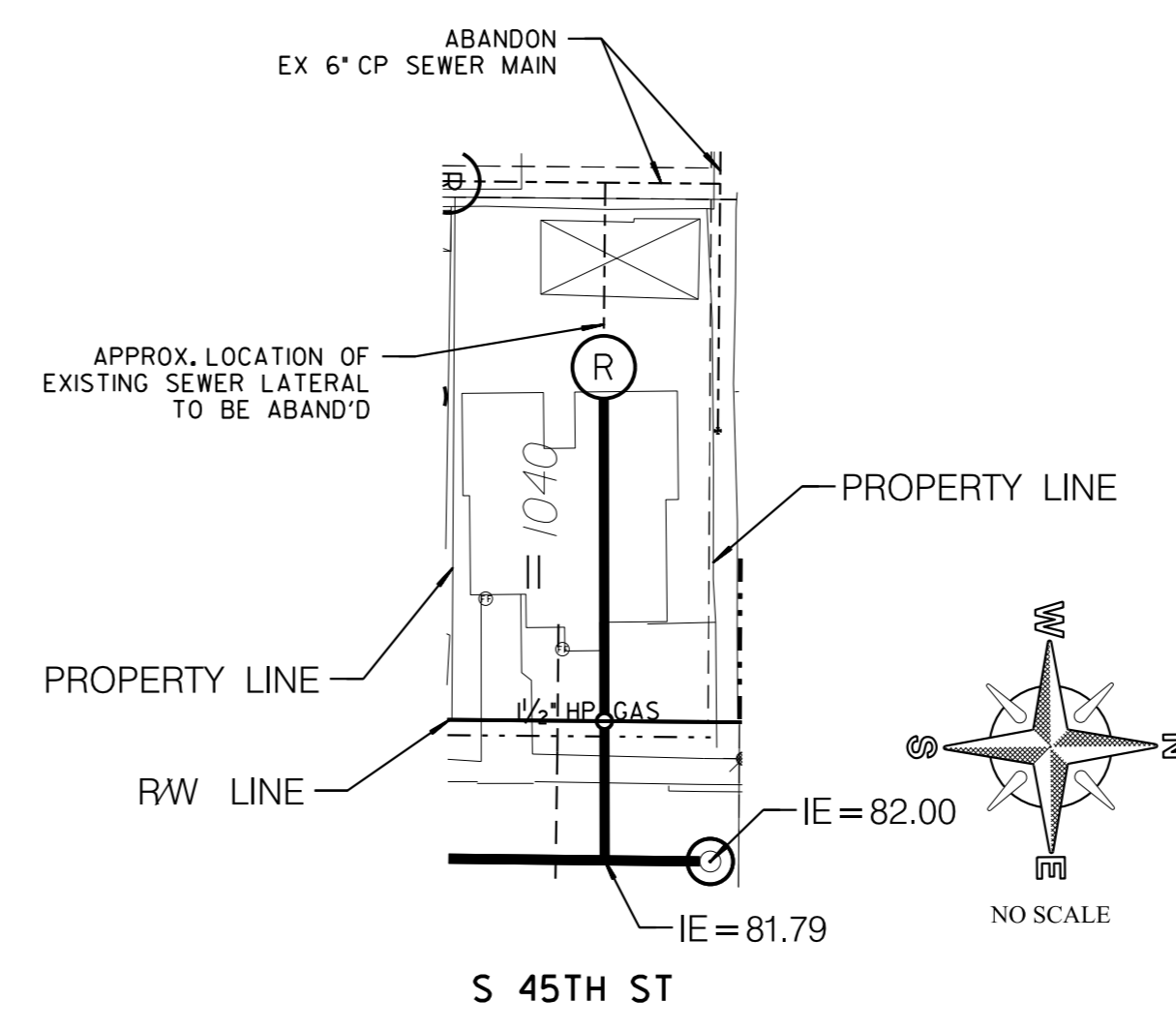
**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 4446 NEWTON AVE.  
 SEE SHEET NO. 33



**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 4450 NEWTON AVE.  
 SEE SHEET NO. 33



**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 1020 S 43RD ST.  
 SEE SHEET NO. 32



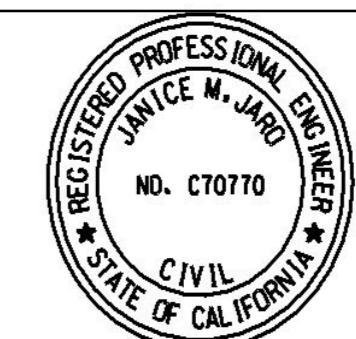
**SEWER LATERAL REPLUMB WORK**  
 ADDRESS: 1040 S 45TH ST.  
 SEE SHEET NO. 34

- LEGEND:**
- PROPOSED SEWER MAIN ————
  - PROPOSED SEWER MANHOLE (R)
  - SEWER LATERAL REPLUMB ————(R)
  - EXISTING SEWER MAIN - - - - -
  - EXISTING SEWER LATERAL - - - - -

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**AC WATER & SEWER GROUP 1052  
 REPLUMB EXHIBIT**

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
 SHEET 56 OF 56 SHEETS



APPROVED BY: <i>Jaro</i>	DATE: 10/26/2021	SUBMITTED BY: AMY MILLS
FOR CITY ENGINEER	DATE: C70770	PROJECT MANAGER
PRINTED BY: JANICE JARO	DATE: 10/26/21	CHECKED BY: JING DEBELISO
DESCRIPTION: ORIGINAL	BY: JD/DW	PROJECT ENGINEER
APPROVED: <i>Jaro</i>	DATE: 10/26/21	SEE SHEETS
DATE: 10/26/21		CCS27 COORDINATE
		SEE SHEETS
		CCS83 COORDINATE

CONTRACTOR: \_\_\_\_\_ NTP DATE: \_\_\_\_\_  
 INSPECTOR: \_\_\_\_\_ NOC DATE: \_\_\_\_\_

41338-56-D

REPLUMB EXHIBIT

# City of San Diego

CITY CONTACT: Rosa Riego, Senior, Contract Specialist, Email: [RRiego@sandiego.gov](mailto:RRiego@sandiego.gov)  
Phone No. (619) 533-3426

## ADDENDUM B



## FOR

## AC WATER & SEWER GROUP 1052

BID NO.:	<u>K-22-2047-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-18092, B-18096</u>
CLIENT DEPARTMENT:	<u>2000</u>
COUNCIL DISTRICT:	<u>8,9</u>
PROJECT TYPE:	<u>KB, JA</u>

### **BID DUE DATE:**

**2:00 PM**  
**February 8, 2022**

### **CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS**

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

**A. CHANGES TO CONTRACT DOCUMENTS**

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

**B. BIDDER'S QUESTIONS**

Q1. Is there a geotechnical report out for this bid? I am trying to see what needs to be dewatered.

A1. See update as part of this addendum.

**C. SUPPLEMENTARY SPECIAL PROVISIONS**

1. To Section 3, Control of Work, page 40. **ADD** the following:

**3-9 TECHNICAL STUDIES AND SUBSURFACE DATA.** To the "WHITEBOOK", ADD the following:

5. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests at the Work Site:

a) Limited Geotechnical Investigation dated November 5, 2021, by GeoCon Inc.

6. The reports listed above are available for review at the following link:

<https://drive.google.com/drive/folders/1gDUJ9kK8VUI9ELUpOCkt39xB5BN99XEz?usp=sharing>

James Nagelvoort, Director  
Engineering & Capital Projects Department

Dated: *January 5, 2022*  
San Diego, California

JN/SE/la

# City of San Diego

CITY CONTACT: Rosa Riego, Senior, Contract Specialist, Email: [RRiego@sandiego.gov](mailto:RRiego@sandiego.gov)  
Phone No. (619) 533- 3426

## ADDENDUM C



## FOR

## AC WATER & SEWER GROUP 1052

BID NO.:	<u>K-22-2047-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-18092, B-18096</u>
CLIENT DEPARTMENT:	<u>2000</u>
COUNCIL DISTRICT:	<u>8, 9</u>
PROJECT TYPE:	<u>KB, JA</u>

### **BID DUE DATE:**


**2:00 PM**  
**February 8, 2022**

### **CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS**

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

**ENGINEER OF WORK**

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

  
\_\_\_\_\_  
For City Engineer

01/25/2022  
\_\_\_\_\_  
Date

Seal:





## A. CHANGES TO CONTRACT DOCUMENTS

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

## B. ATTACHMENTS

1. To Attachment A, Scope of Work, Section 1, Scope of Work, page 24, Item 1.1., Sub-item 1.1.1., **DELETE** In Its entirety and **SUBSTITUTE** with the following:

**1.1.1.** The Notice Inviting Bids and Plans numbered **41338-01-D** through **41338-56-D** and **41338-T1-D** through **41338-T5-D**, inclusive.

## C. PLANS

1. **ADD** Traffic control plans, Drawing numbers **41338-T1-D** through **41338-T5-D**, pages 4 through 8 of this Addendum.

Rania Amen, Director  
Engineering & Capital Projects Department

Dated: *January 25, 2022*  
San Diego, California

RA/DH/la



NOTE:  
WORK ON S. 43RD ST  
WILL BE FROM 8:30am TO 3:30pm

NOTE:  
CONTRACTOR TO MAINTAIN  
ACCESS TO DRIVEWAYS  
AT ALL TIMES.

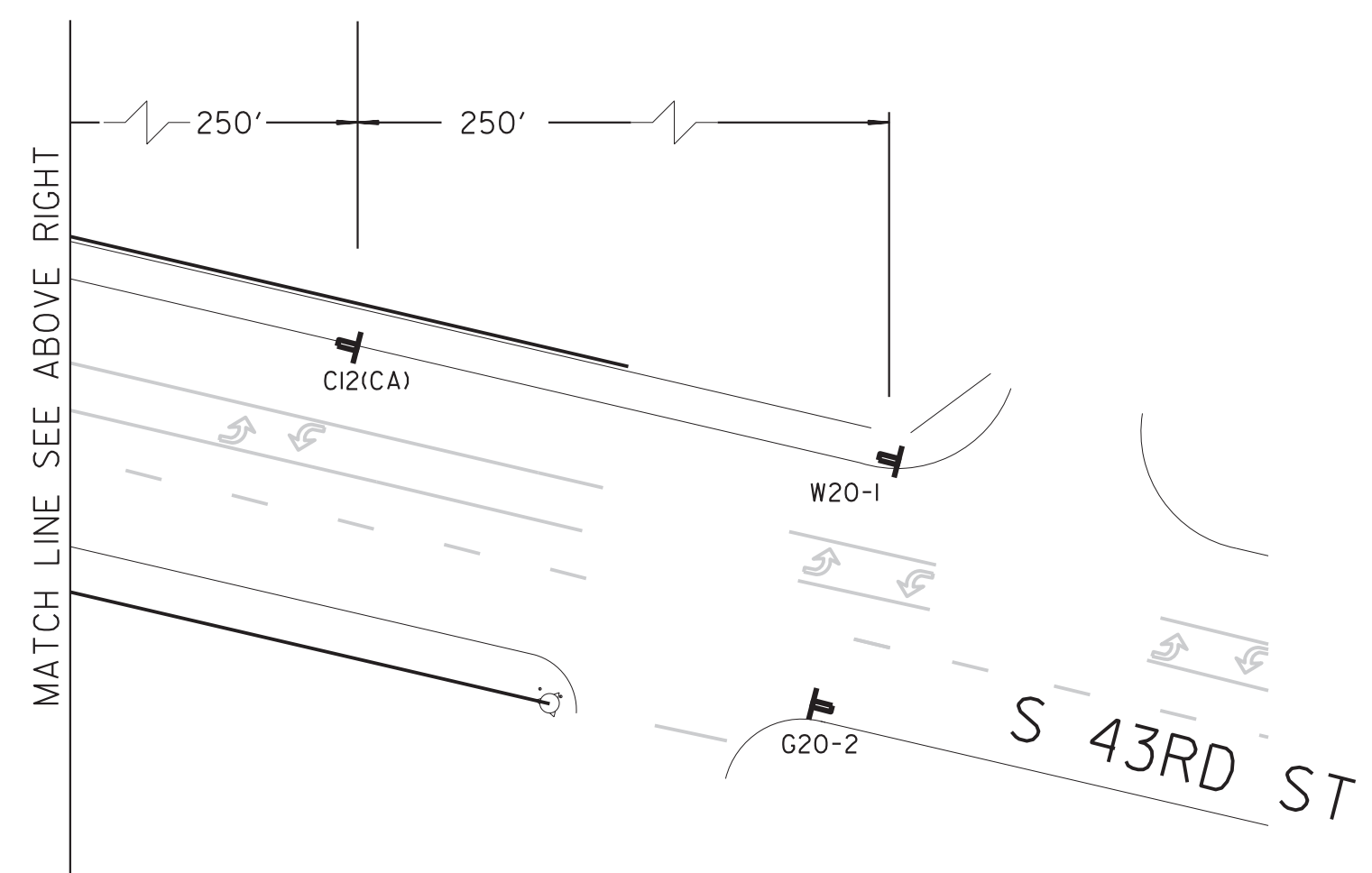
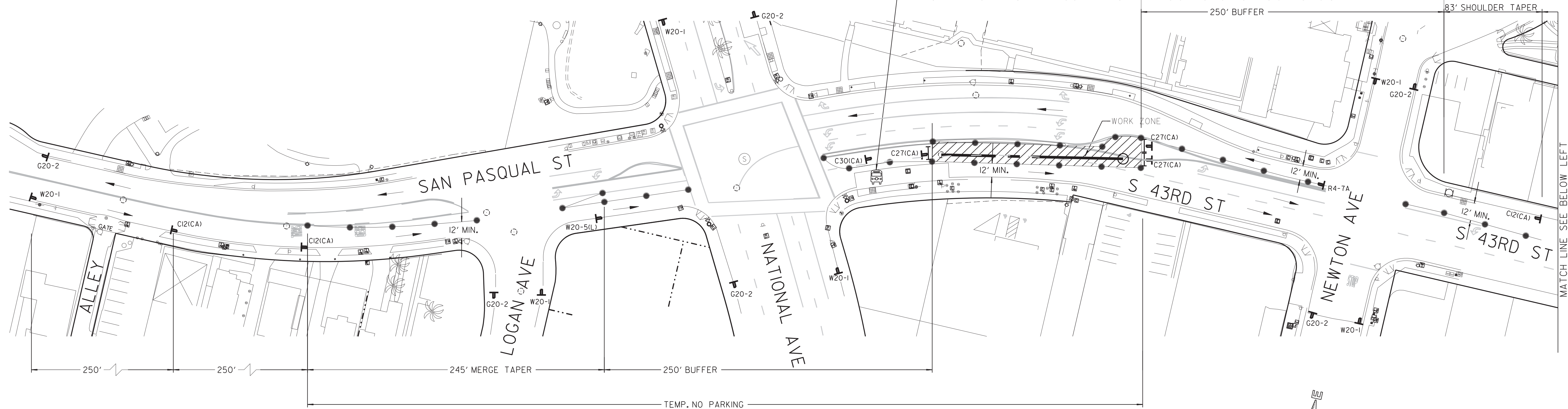
The Contractor shall notify San Diego Transit  
at 1-619-446-4021 & 1-619-446-4018, a minimum of five (5) working days  
prior to excavation, construction, or traffic control affecting bus stops.

TRAFFIC CONTROL NOTE: CONTRACTOR SHALL  
COORDINATE WITH TRAFFIC CONTROL AND  
SIGNAL SECTION (858) 495-4742 A  
MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR  
TO WORK AFFECTING A TRAFFIC SIGNAL.  
SIGNAL TO REMAIN OPERATIONAL FOR  
THIS PHASE.

DELINEATOR AND SIGN SPACING CHART

STREET NAME	APPROACH SPEED (MPH)	MINIMUM TAPER LENGTH (L)	MINIMUM SIGN SPACING	MAXIMUM SPACING OF CONES ALONG TAPER (FEET) +/-
S 43RD ST.	35	245'	250'	35

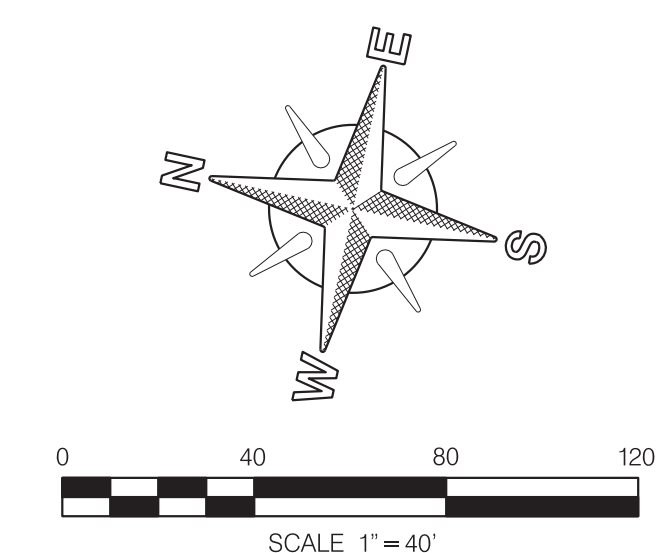
MTS NOTE:  
BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO  
TRANSIT A MINIMUM OF ONE(1) WEEK PRIOR TO STARTING  
WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR  
SHALL NOTIFY SAN DIEGO TRANSIT AT 1-619-446-4021 & 1-619-446-4018



PHASE ONE

SIGN LEGEND

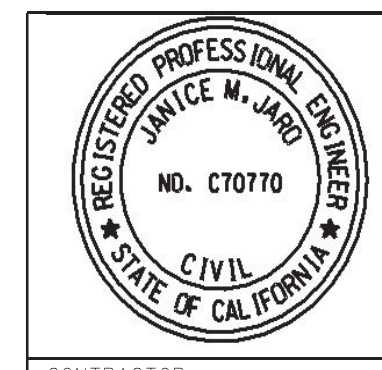
- LANE CLOSED  
 C30(CA)
- ROAD WORK AHEAD  
 W20-1
- LEFT LANE CLOSED AHEAD  
 W20-5(LT)
- NARROW LANE  
 W4-2(LT)
- OPEN TRENCH  
 C27(CA)
- NARROW LANE  
 C12(CA)
- END ROAD WORK  
 G20-2



TC-2

AC WATER & SEWER GROUP 1052  
TRAFFIC CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 2 OF 5 SHEETS		WATER WBS: B-18092 SEWER WBS: B-18096
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER JANICE JARO PRINT DCE NAME	DATE: 10/26/2021 DATE: C70770 RICE#	SUBMITTED BY: AMY MILLS PROJECT MANAGER CHECKED BY: JING DEBELISO PROJECT ENGINEER
DESCRIPTION: ORIGINAL	BY: JD/DW	APPROVED: <i>[Signature]</i>
		DATE: 10/26/21
		FILMED
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____
		41338-T2-D



FINAL DESIGN

TRAFFIC CONTROL PLAN

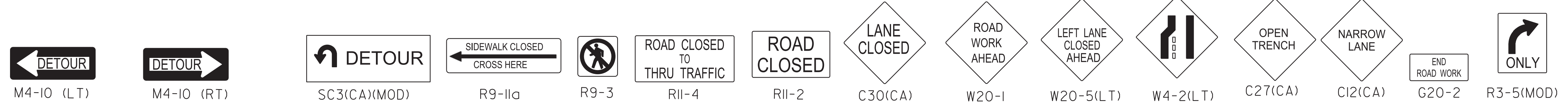
NOTE:  
WORK ON S. 43RD ST  
WILL BE FROM 8:30am TO 3:30pm

NOTE:  
CONTRACTOR TO MAINTAIN  
ACCESS TO DRIVEWAYS  
AT ALL TIMES.

The Contractor shall notify San Diego Transit  
at 1-619-446-4021 & 1-619-446-4018, a minimum of five (5) working days  
prior to excavation, construction, or traffic control affecting bus stops.

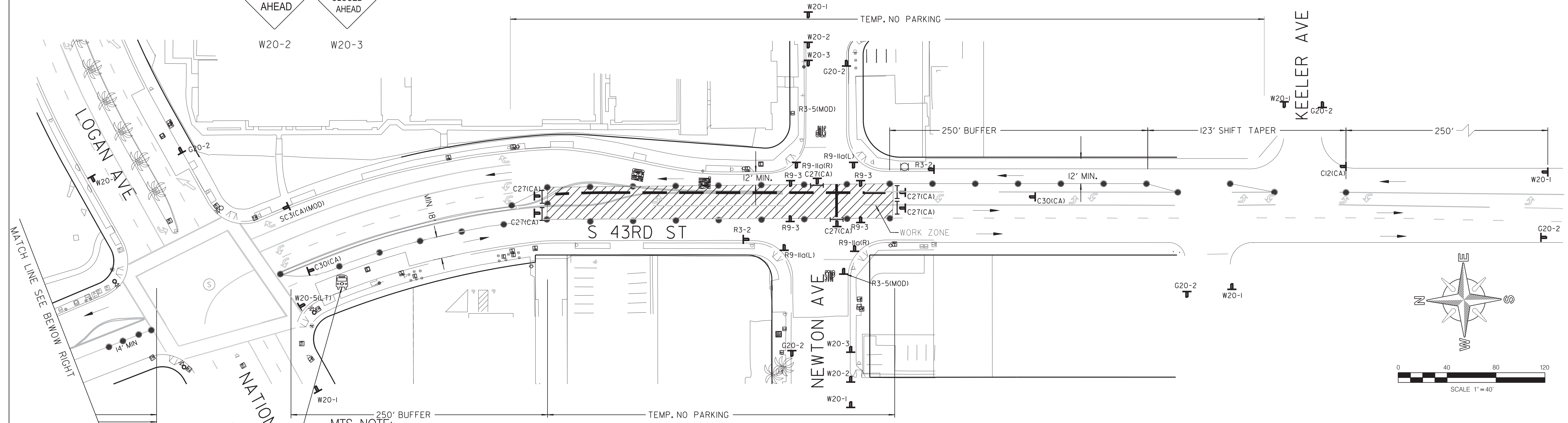
TRAFFIC CONTROL NOTE: CONTRACTOR SHALL  
COORDINATE WITH TRAFFIC CONTROL AND  
SIGNAL SECTION (858) 495-4742 A  
MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR  
TO WORK AFFECTING A TRAFFIC SIGNAL.  
SIGNAL TO REMAIN OPERATIONAL FOR  
THIS PHASE.

SIGN LEGEND

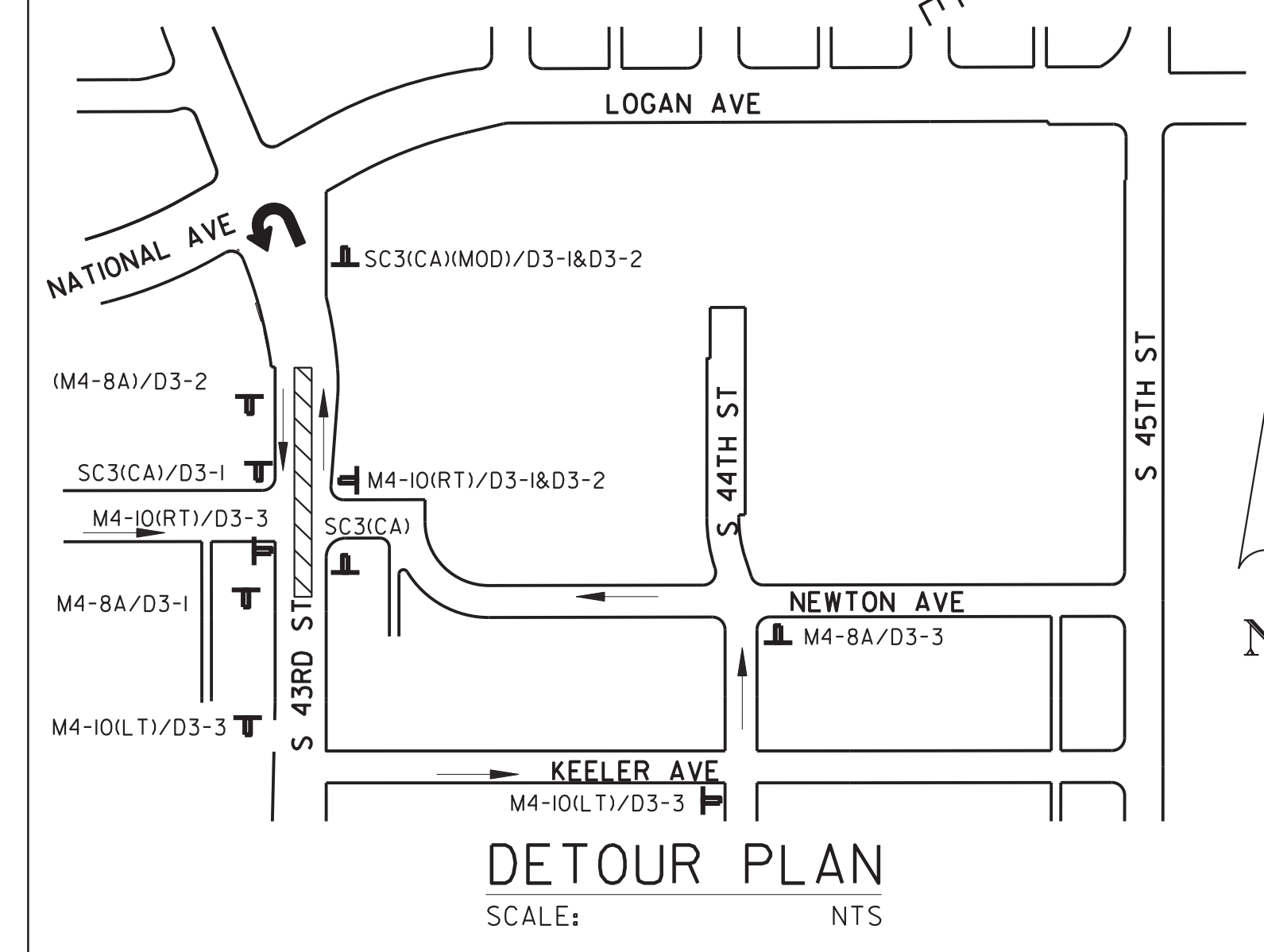
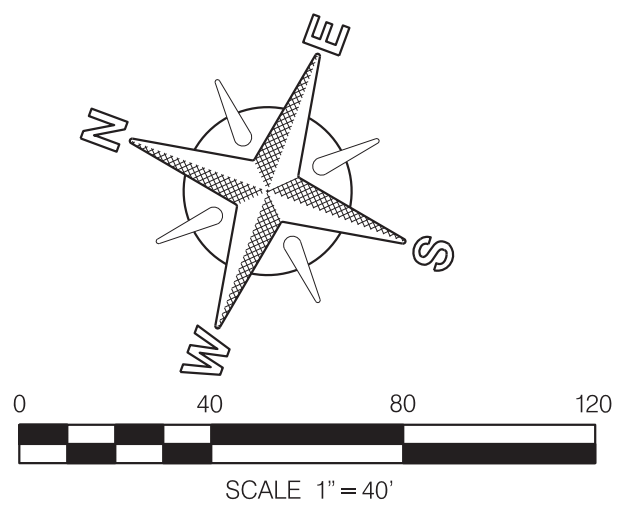
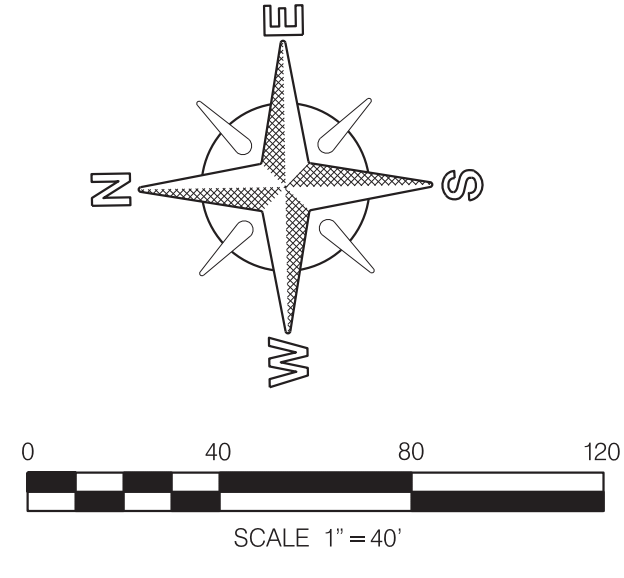


DELINEATOR AND SIGN SPACING CHART

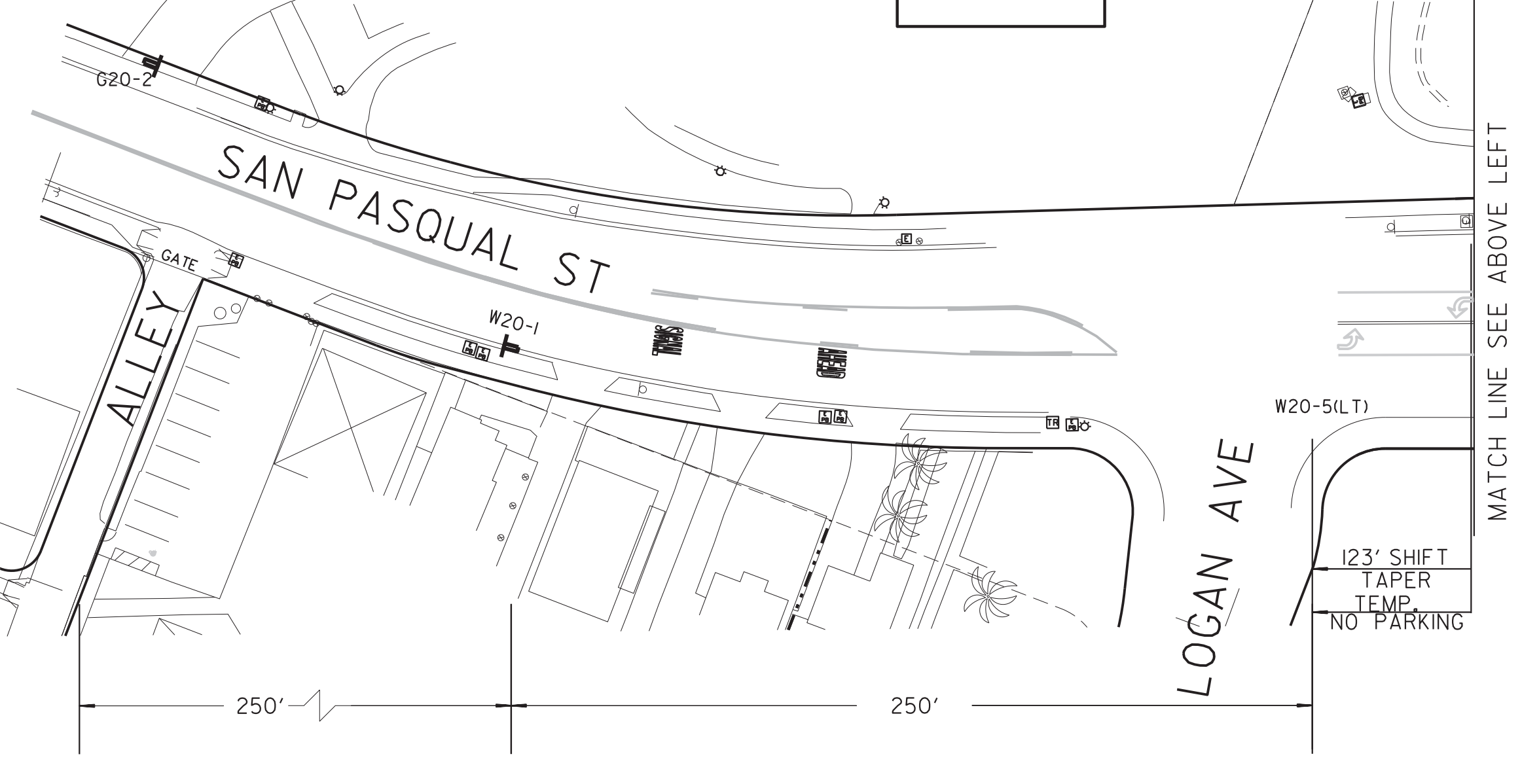
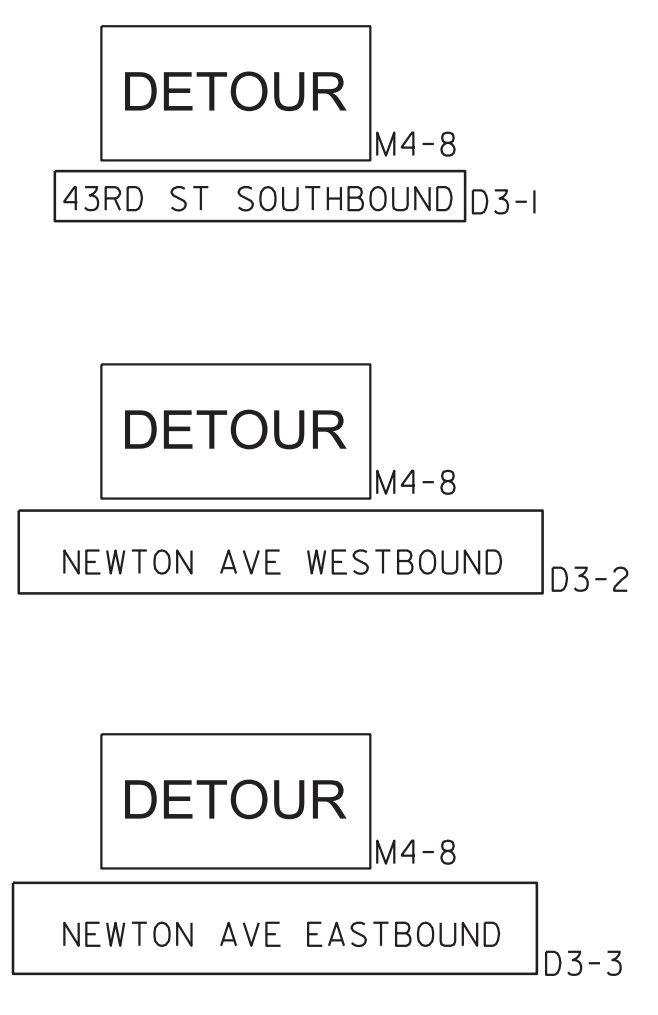
STREET NAME	APPROACH SPEED (MPH)	MINIMUM TAPER LENGTH (L)	MINIMUM SIGN SPACING	MAXIMUM SPACING OF CONES ALONG TAPER (FEET) +/-
S 43RD ST.	35	245'	250'	35



MTS NOTE:  
BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO  
TRANSIT A MINIMUM OF ONE(1) WEEK PRIOR TO STARTING  
WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR  
SHALL NOTIFY SAN DIEGO TRANSIT AT 1-619-446-4021 & 1-619-446-4018.



DETOUR PLAN  
SCALE: NTS



TC-3

AC WATER & SEWER GROUP 1052  
TRAFFIC CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 3 OF 5 SHEETS

APPROVED: [Signature] 10/26/2021  
FOR CITY ENGINEER: JANICE JARO DATE: 10/26/21  
PRINT DCE NAME: JANICE JARO RICE# C70770

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW	[Signature]	10/26/21	

WATER WBS: B-18092  
SEWER WBS: B-18096  
SUBMITTED BY: AMY MILLS  
PROJECT MANAGER  
CHECKED BY: JING DEBELISO  
PROJECT ENGINEER  
SEE SHEETS  
CCS27 COORDINATE  
SEE SHEETS  
CCS83 COORDINATE

CONTRACTOR: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

41338-T3-D

FINAL DESIGN

TRAFFIC CONTROL PLAN

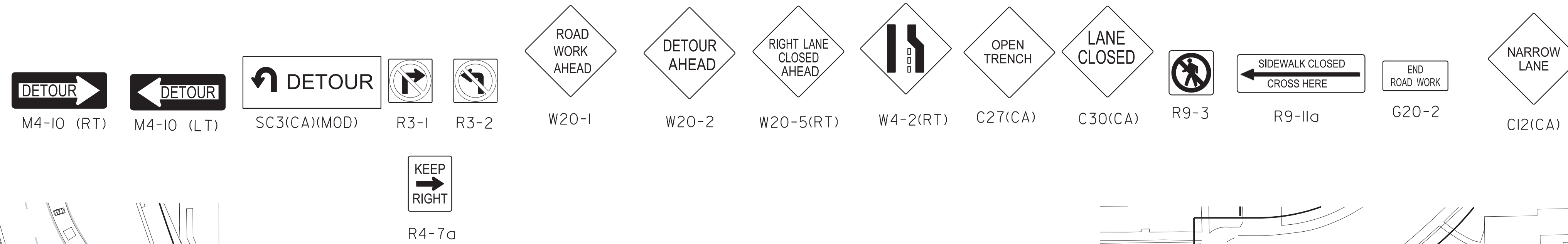
NOTE:  
WORK ON S. 43RD ST  
WILL BE FROM 8:30am TO 3:30pm

NOTE:  
CONTRACTOR TO MAINTAIN  
ACCESS TO DRIVEWAYS  
AT ALL TIMES.

The Contractor shall notify San Diego Transit  
at 1-619-446-4021 & 1-619-446-4018, a minimum of five (5) working days  
prior to excavation, construction, or traffic control affecting bus stops.

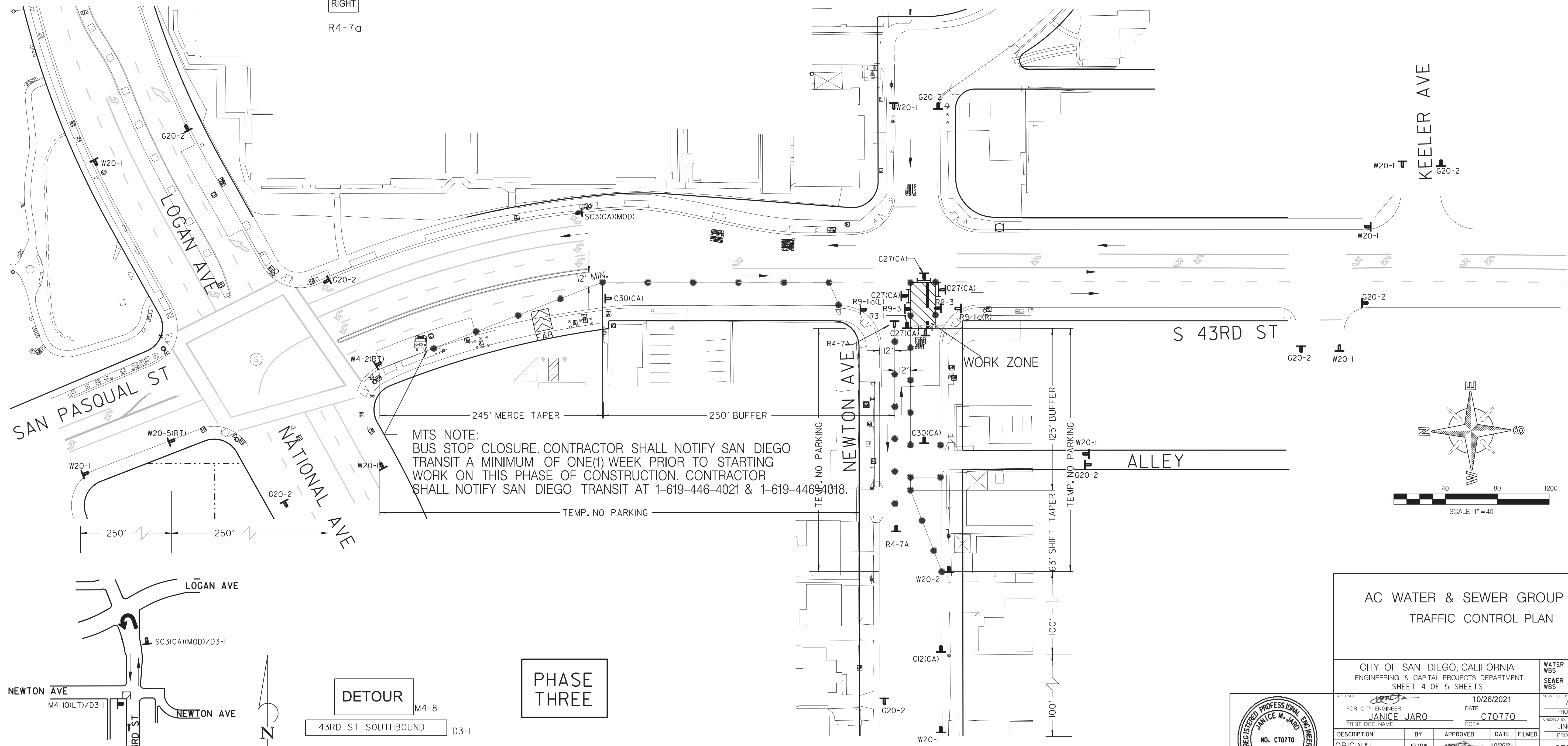
TRAFFIC CONTROL NOTE: CONTRACTOR SHALL  
COORDINATE WITH TRAFFIC CONTROL AND  
SIGNAL SECTION (858) 495-4742 A  
MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR  
TO WORK AFFECTING A TRAFFIC SIGNAL.  
SIGNAL TO REMAIN OPERATIONAL FOR  
THIS PHASE.

### SIGN LEGEND

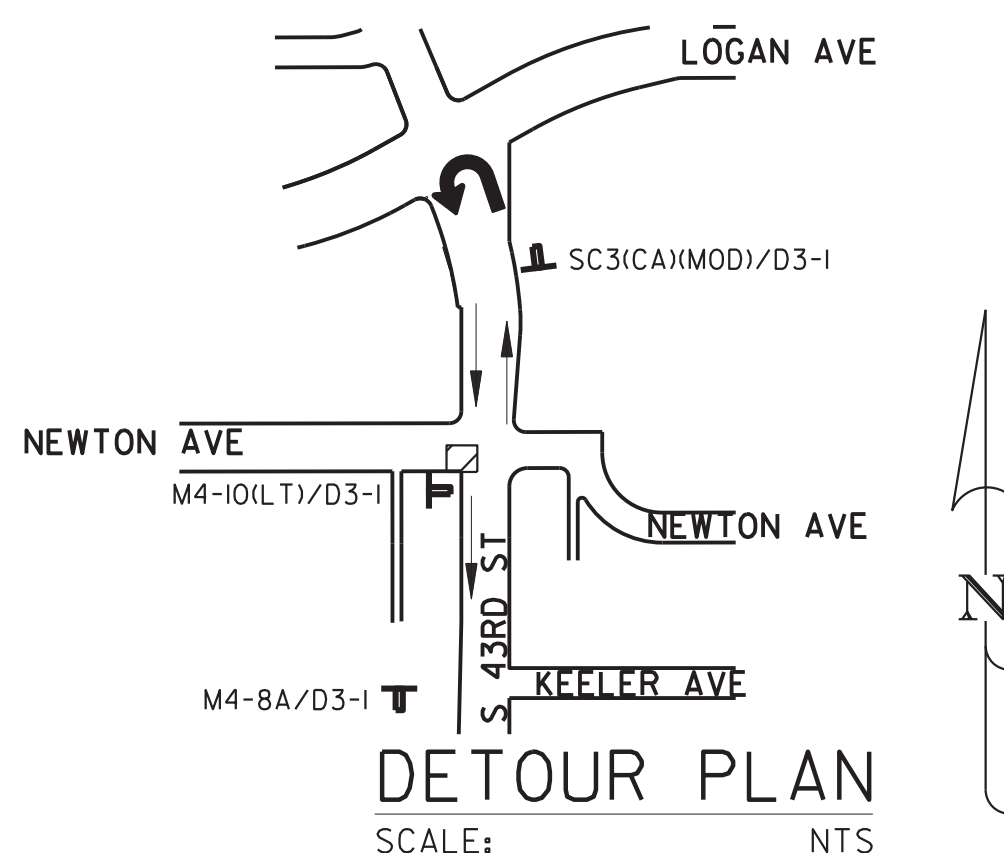


### DELINEATOR AND SIGN SPACING CHART

STREET NAME	APPROACH SPEED (MPH)	MINIMUM TAPER LENGTH (L)	MINIMUM SIGN SPACING	MAXIMUM SPACING OF CONES ALONG TAPER (FEET) +/-
S 43RD ST.	35	245'	250'	35
NEWTON AVE.	25	125'	100'	25



MTS NOTE:  
BUS STOP CLOSURE. CONTRACTOR SHALL NOTIFY SAN DIEGO  
TRANSIT A MINIMUM OF ONE(1) WEEK PRIOR TO STARTING  
WORK ON THIS PHASE OF CONSTRUCTION. CONTRACTOR  
SHALL NOTIFY SAN DIEGO TRANSIT AT 1-619-446-4021 & 1-619-446-4018.



PHASE THREE

TC-4

AC WATER & SEWER GROUP 1052  
TRAFFIC CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 4 OF 5 SHEETS

APPROVED: *[Signature]* DATE: 10/26/2021  
FOR CITY ENGINEER: JANICE JARO  
PRINT DCE NAME: JANICE JARO RICE# C70770

WATER WBS: B-18092  
SEWER WBS: B-18096

SUBMITTED BY: AMY MILLS  
PROJECT MANAGER

CHECKED BY: JING DEBELISO  
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JD/DW	<i>[Signature]</i>	10/26/21	

SEE SHEETS  
CCS27 COORDINATE

SEE SHEETS  
CCS83 COORDINATE

CONTRACTOR: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

41338-T4-D

FINAL DESIGN

TRAFFIC CONTROL PLAN

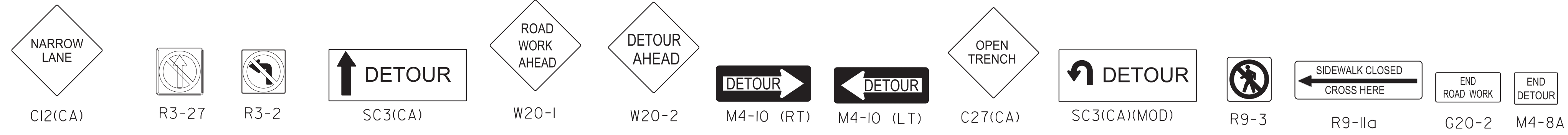
NOTE:  
WORK ON S. 43RD ST  
WILL BE FROM 8:30am TO 3:30pm

NOTE:  
CONTRACTOR TO MAINTAIN  
ACCESS TO DRIVEWAYS  
AT ALL TIMES.

The Contractor shall notify San Diego Transit  
at 1-619-446-4021 & 1-619-446-4018, a minimum of five (5) working days  
prior to excavation, construction, or traffic control affecting bus stops.

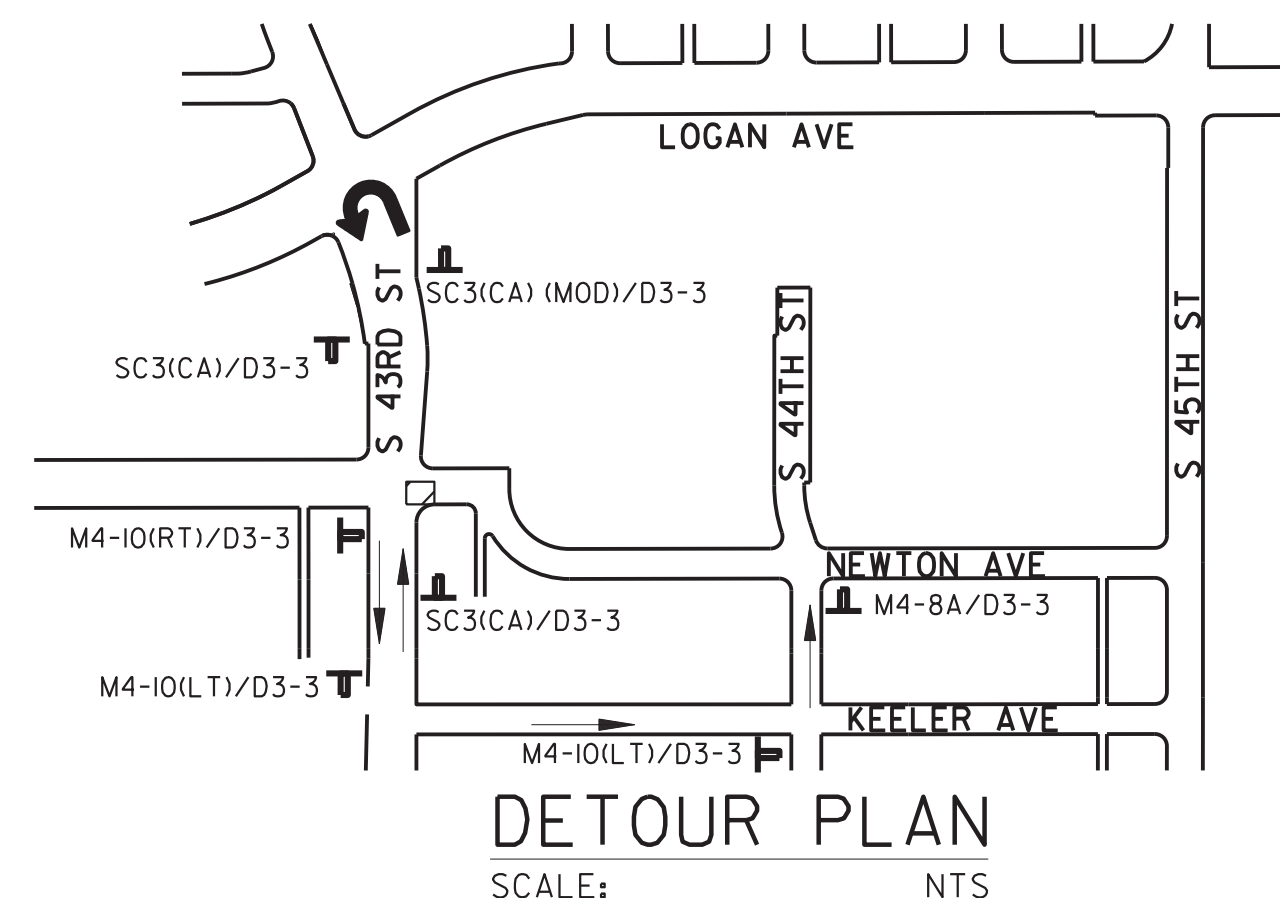
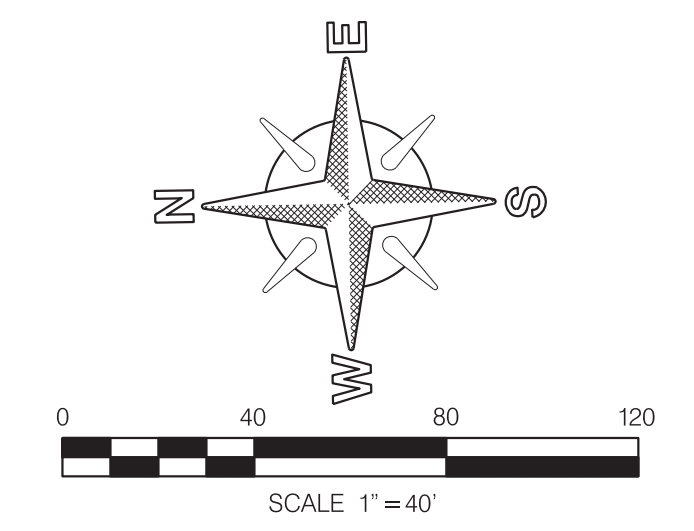
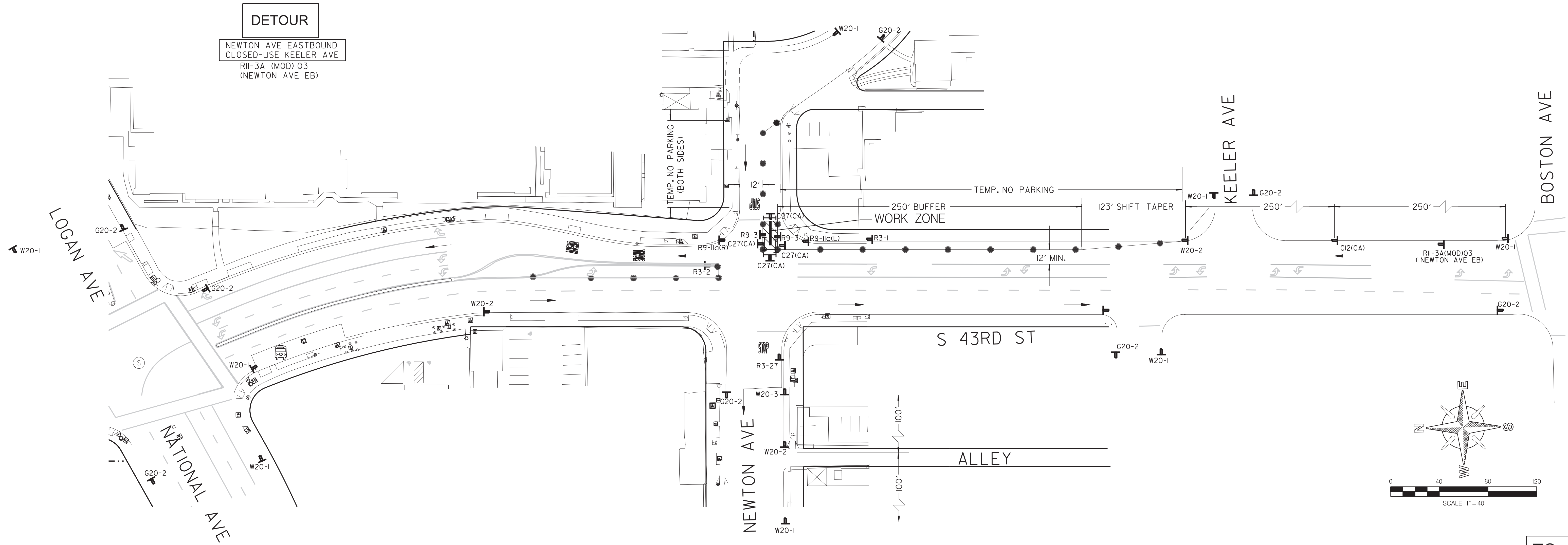
TRAFFIC CONTROL NOTE: CONTRACTOR SHALL  
COORDINATE WITH TRAFFIC CONTROL AND  
SIGNAL SECTION (858) 495-4742 A  
MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR  
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SIGNAL TO REMAIN OPERATIONAL FOR  
THIS PHASE.

### SIGN LEGEND



### DELINEATOR AND SIGN SPACING CHART

STREET NAME	APPROACH SPEED (MPH)	MINIMUM TAPER LENGTH (L)	MINIMUM SIGN SPACING	MAXIMUM SPACING OF CONES ALONG TAPER (FEET) +/-
S 43RD ST.	35	245'	250'	35
NEWTON AVE.	25	125'	100'	25



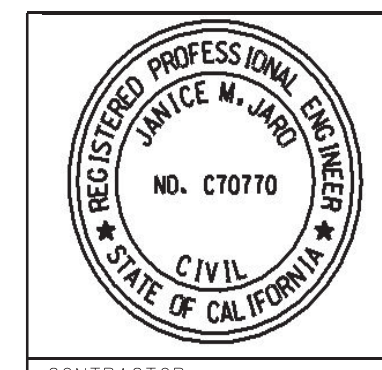
DETOUR  
M4-8  
NEWTON AVE EASTBOUND D3-3

PHASE FOUR

TC-5

AC WATER & SEWER GROUP 1052  
TRAFFIC CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 5 OF 5 SHEETS



APPROVED FOR CITY ENGINEER	DATE	10/26/2021	DATE	10/26/2021	FILED	10/26/21
JANICE JARO	C70770					
DESCRIPTION	BY	APPROVED	DATE	FILED		
ORIGINAL	JD/DW					

WATER WBS: B-18092  
SEWER WBS: B-18096  
SUBMITTED BY: AMY MILLS  
PROJECT MANAGER  
CHECKED BY: JING DEBELISO  
PROJECT ENGINEER  
SEE SHEETS  
CCS27 COORDINATE  
SEE SHEETS  
CCS83 COORDINATE  
41338-T5-D

CONTRACTOR: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

FINAL DESIGN

TRAFFIC CONTROL PLAN

# City of San Diego

CITY CONTACT: Rosa Riego, Senior, Contract Specialist, Email: [RRiego@sandiego.gov](mailto:RRiego@sandiego.gov)  
Phone No. (619) 533-3426

## ADDENDUM D



## FOR

## AC WATER & SEWER GROUP 1052

BID NO.: K-22-2047-DBB-3

SAP NO. (WBS/IO/CC): B-18092, B-18096

CLIENT DEPARTMENT: 2000

COUNCIL DISTRICT: 8, 9

PROJECT TYPE: KB, JA

### **BID DUE DATE:**

**2:00 PM**  
**February 8, 2022**

**CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS**

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

## **A. CHANGES TO CONTRACT DOCUMENTS**

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

## **B. BIDDER'S QUESTIONS**

Q1. The stated contract duration is 350 workdays. This is a very short amount of time for a \$14 million dollar pipeline contract. Please reconsider the amount of workdays allowed to be something more appropriate for a job of this size, 550 to 600 workdays at minimum.

A1. Working days have been revised to 575 working days.

Q2. PVC lined manholes are currently unavailable locally. Will the city accept polyurethane lining and coating of manholes in lieu of PVC lining?

A2. New manholes may utilize materials from the City of Los Angeles' Approved Products List for plastic liner systems to line new manholes (Agru (HDPE Liner), Alternative Lining Technologies (PVC Liner), or Predl (Polypropylene & FRP Liners). Existing manholes to be rehabbed may utilize the polyurethane or epoxy coating systems on the City of San Diego Approved Materials List. The exterior of the new manholes shall be coated with a coal tar emulsion (waterproofing agent).

Q3. Bid item #100 and #101 Dewatering Hazardous and Contaminated Groundwater, or more specifically the setup and treatment for dewatering of hazardous and/or contaminated groundwater is typically bid as an allowance item on all City of SD projects. This is due to the treatment requirements and the amount of groundwater to be encountered being unknown at time of bid. Please change treatment of hazardous and contaminated groundwater to an allowance to be consistent with past City projects.



- A3. The “Dewatering Hazardous Contaminated Water” and “Dewatering Non-Hazardous Contaminated Water” includes payment for equipment set up for disposal work within the Lump Sum unit.

**C. ATTACHMENTS**

1. To Attachment A, Scope of Work, page 24, Item **3, CONTRACT TIME, DELETE** in its entirety and **SUBSTITUTE** with the following:
- 3. CONTACT TIME:** The Contract Time for completion of the Work shall be **575 Working Days.**

Rania Amen, Director  
Engineering & Capital Projects Department

Dated: *January 27, 2022*  
San Diego, California

RA/DH/la

## Bid Results

### Bidder Details

**Vendor Name** Burtech Pipeline Incorporated  
**Address** 102 Second Street  
Encinitas, California 92024  
United States  
**Respondee** Dominic Burtech  
**Respondee Title** President & CEO  
**Phone** 760-634-2822  
**Email** buddy@burtechpipeline.com  
**Vendor Type** CADIR, PQUAL  
**License #** 718202  
**CADIR** 1000006324

### Bid Detail

**Bid Format** Electronic  
**Submitted** 02/08/2022 1:25 PM (PST)  
**Delivery Method**  
**Bid Responsive**  
**Bid Status** Submitted  
**Confirmation #** 279709

### Respondee Comment

Please include Lota@burtechpipeline.com on any correspondences. Thank You!

### Buyer Comment

### Attachments

File Title	File Name	File Type
Contractors Certification of Pending Actions 1052.pdf	Contractors Certification of Pending Actions 1052.pdf	Contractor's Certification of Pending Actions
Mandatory Disclosure of Business Interests Form.pdf	Mandatory Disclosure of Business Interests Form.pdf	Mandatory Disclosure of Business Interest Form
Prime Debarment and Suspension Certification.pdf	Prime Debarment and Suspension Certification.pdf	Prime Contractor - Debarment and Suspension
Subs Debarment and Suspension Certification form.pdf	Subs Debarment and Suspension Certification form.pdf	Subcontractor - Debarment and Suspension
Subcontractors Additive Deductive Alternate.pdf	Subcontractors Additive Deductive Alternate.pdf	Subcontractor Additive/Deductive Alternate
Contractors Experience & Past Project Documentations.pdf	Contractors Experience & Past Project Documentations.pdf	Contractor's Experience and Past Project Documentation
NuLine Qualification Package.pdf	NuLine Qualification Package.pdf	Manufacturer Authorized Installer Certification
Bid Bond Group 1052.pdf	Bid Bond Group 1052.pdf	Bid Bond

## Subcontractors

Showing 11 Subcontractors

Name & Address	Desc	License Num	CADIR	Amount	Type
<b>California Asphalt Paving and Gradir</b> 674 Alagria pl. Chula Vista, California 91910	Constructor - Base Bid Asphalt Paving, Trench G&O Scopes, Plus Additive Alternate D Asphalt Scopes	1033358	1000062521	\$1,472,173.10	LAT, MALE, ELBE, Local
<b>McGrath Consulting</b> PO Box 2488 El Cajon, California 92021	Designer - Bid Item 90 for WPCP Development	QSD 20194 / SLBE	1000037165	\$575.00	Local
<b>Meridian Archaeological Services &amp;</b> 1104 California Street Imperial Beach, California 91932	Constructor / Services - Archaeological, Native American & Paleontological Monitoring & Curation	ELBE	none required	\$38,595.00	ELBE, LAT, MALE, Local
<b>Nu-Line Technologies, LLC</b> 102 Second Street, Suite B Encinitas, California 92024	Constructor - Sewer Main Rehabilitation, Cleaning and CCTV Inspections	997520	1000003808	\$34,605.00	FEM, MBE, CADIR, WBE, PQUAL, Local
<b>Piperin Corporation</b> 510 Venture Street Escondido, California 92029	Constructor - Partial Open Cut Sewer and Water Installations	964028	1000000485	\$2,068,731.00	CADIR, ELBE, PQUAL, Local
<b>ROY ALLAN SLURRY SEAL, INC</b> 11922 BLOOMFIELD AVE SANTA FE SPRINGS, California 90671	Constructor - RPMS Slurry Sealing Base Bid Items 11, 12 & 13	372798	1000001156	\$490,844.46	PQUAL, CADIR
<b>Rec Trucking Inc</b> 1128 2nd ave Chula vista, California 91911	General Services - Offsite Trucking	1045479	1000040647	\$50,000.00	ELBE, DBE, CADIR, MALE, LAT, Local
<b>Soclaris Contracting</b> 7437 Lowell Ct. La Mesa, California 91942	Constructor - Additive Alternate C Bid Items 102 to 109 for Haz Waste, Contaminated Soils and Groundwater scopes	793838	1000011964	\$48,200.00	CADIR, DVBE, SDVSB, SLBE, MALE, CAU, Local
<b>Statewide Stripes Inc.</b> PO Box 600710 San Diego, California 92160	Constructor - Pavement Striping Scopes Bid Items 75 & 76	788286	1000001334	\$48,549.25	DBE, CADIR, Local
<b>Sutherlin Contracting, Inc.</b> 2007 Muira Lane El Cajon, California 92019	Constructor - BI#82 Traffic Signal Loops	787127	1000008101	\$2,400.00	SLBE, Local
<b>YBS CONSTRUCTION ENGINEERING</b> PO BOX 1197 Bonita, California 91908	Constructor - PCC Concrete Works and Curb Ramps	885270	1000641763	\$774,686.00	PQUAL, SLBE, MBE, CADIR, MALE, LAT

## Line Items

Discount Terms No Discount

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
Main Bid							\$9,802,921.10		
1	524126		Bonds (Payment and Performance)	LS	1	\$75,000.00	\$75,000.00	Yes	
2	334290		Remote Control Camera Inspection (EOC Type II)	AL	1	\$20,000.00	\$20,000.00	Yes	
3	237110		Sewage Bypass and Pumping Plan (Diversion Plan)	LS	1	\$10,000.00	\$10,000.00	Yes	
4	541690		Archaeological and Native American Monitoring Program	LF	4267	\$6.40	\$27,308.80	Yes	
5	541690		Paleontological Monitoring Program	LF	4267	\$3.80	\$16,214.60	Yes	
6	541690		Suspension of Work - Resources	DAY	5	\$100.00	\$500.00	Yes	
7	541690		Archaeological and Native American Mitigation and Curation (EOC Type I)	AL	1	\$10,000.00	\$10,000.00	Yes	
8	237110		Mobilization	LS	1	\$200,000.00	\$200,000.00	Yes	
9			Field Orders (EOC Type II)	AL	1	\$255,000.00	\$255,000.00	Yes	
10	237310		Asphalt Pavement Repair	TON	1970	\$100.00	\$197,000.00	Yes	
11	237310		Rubber Polymer Modified Slurry (RPMS) Type I	SF	567201	\$0.40	\$226,880.40	Yes	
12	237310		Rubber Polymer Modified Slurry (RPMS) Type II	SF	649485	\$0.42	\$272,783.70	Yes	
13	237310		Rubber Polymer Modified Slurry (RPMS) Type III	SF	82284	\$0.90	\$74,055.60	Yes	
14	237310		Pavement Restoration Adjacent to Trench	SF	27900	\$2.00	\$55,800.00	Yes	
15	238910		Concrete Pavement (7 Inch Thick)	CY	1324	\$375.00	\$496,500.00	Yes	
16	237310		Crack Seal	LB	550	\$28.00	\$15,400.00	Yes	
17	237310		Historical and Contractor Date Stamps and Impressions	EA	16	\$115.00	\$1,840.00	Yes	
18	237310		Remove and Replace Existing Sidewalk	SF	100	\$30.00	\$3,000.00	Yes	
19	237310		Cross Gutter	SF	1390	\$18.00	\$25,020.00	Yes	
20	237310		Concrete Driveway (Contiguous)	SF	50	\$40.00	\$2,000.00	Yes	
21	237310		Alley Apron	SF	100	\$28.50	\$2,850.00	Yes	
22	237310		Curb Ramp (Type D) with Stainless Steel Detectable Warning Tiles	EA	18	\$4,100.00	\$73,800.00	Yes	
23	237310		Curb Ramp (Type A) with Stainless Steel Detectable Warning Tiles	EA	12	\$5,230.00	\$62,760.00	Yes	
24	237310		Curb Ramp (Type B) with Stainless Steel Detectable Warning Tiles	EA	12	\$4,050.00	\$48,600.00	Yes	
25	237310		Curb Ramp (Type C1) with Stainless Steel Detectable Warning Tiles	EA	8	\$4,550.00	\$36,400.00	Yes	
26	237310		Curb Ramp (Type C2) with Stainless Steel Detectable Warning Tiles	EA	21	\$5,000.00	\$105,000.00	Yes	
27	237310		Curb Ramp Modified (Type C2, Per 41338-43-D) with Detectable Warning Tiles	EA	2	\$5,000.00	\$10,000.00	Yes	
28	237310		Curb Ramp Modified (Type D, Per 41338-43-D) with Stainless Steel Detectable Warning Tiles	EA	1	\$4,100.00	\$4,100.00	Yes	
29	237310		Curb Ramp Modified (Type D, Per 41338-44-D) with Stainless Steel Detectable Warning Tiles	EA	1	\$4,100.00	\$4,100.00	Yes	
30	237110		Phased Paving	EA	10	\$500.00	\$5,000.00	Yes	
31	237110		Abandon and Fill Existing Water Main Outside of the Trench Limit	LF	3437	\$11.00	\$37,807.00	Yes	
32	237110		Abandon and Fill Existing Sewer Main (6 Inch) Outside of the Trench Limit	LF	2106	\$11.00	\$23,166.00	Yes	
33	237110		Abandon and Fill Existing Sewer Main (8 Inch) Outside of the Trench Limit	LF	237	\$11.00	\$2,607.00	Yes	
34	237110		Abandon and Fill Existing Sewer Main (10 Inch) Outside of the Trench Limit	LF	52	\$20.00	\$1,040.00	Yes	
35	237110		Abandon and Fill Existing Sewer Main (14 Inch) Outside of the Trench Limit	LF	515	\$12.00	\$6,180.00	Yes	
36	237110		Abandon and Fill Existing Sewer Main (15 Inch) Outside of the Trench Limit	LF	33	\$30.00	\$990.00	Yes	
37	237110		Abandon Existing Manhole Outside of the Trench Limit	EA	13	\$1,800.00	\$23,400.00	Yes	
38	237110		Handling and Disposal of Non-friable Asbestos Material	LF	11022	\$12.00	\$132,264.00	Yes	
39	237110		Additional Bedding	CY	570	\$1.00	\$570.00	Yes	
40	237110		Water Main (8 Inch)	LF	5602	\$133.00	\$745,066.00	Yes	
41	237110		Water Main (12 Inch)	LF	4546	\$175.00	\$795,550.00	Yes	
42	237110		Water Main (16 Inch)	LF	3766	\$250.00	\$941,500.00	Yes	
43	237110		Water Main (8 Inch, Class 305)	LF	332	\$140.00	\$46,480.00	Yes	
44	237110		Water Main (12 Inch, Class 305)	LF	338	\$200.00	\$67,600.00	Yes	
45	237110		Sewer Main (8 Inch)	LF	1783	\$140.00	\$249,620.00	Yes	
46	237110		Sewer Main (10 Inch)	LF	1304	\$162.00	\$211,248.00	Yes	
47	237110		Sewer Main (12 Inch)	LF	1032	\$170.00	\$175,440.00	Yes	
48	237110		Sewer Main (15 Inch)	LF	87	\$400.00	\$34,800.00	Yes	
49	237110		Sewer Main (8 Inch, SDR-26)	LF	718	\$315.00	\$226,170.00	Yes	

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
50	237110		Sewer Main (12 Inch, SDR-26)	LF	192	\$215.00	\$41,280.00	Yes	
51	237110		Engineered Trench Shoring	LS	1	\$75,000.00	\$75,000.00	Yes	
52	237110		Butterfly Valve (16 Inch, Class 150B)	EA	17	\$5,500.00	\$93,500.00	Yes	
53	237110		Gate Valve (8 Inch)	EA	16	\$2,300.00	\$36,800.00	Yes	
54	237110		Gate Valve (12 Inch)	EA	11	\$3,450.00	\$37,950.00	Yes	
55	237110		Fire Hydrant Assembly and Marker (6 Inch) 2-Port	EA	28	\$11,000.00	\$308,000.00	Yes	
56	237110		Fire Hydrant Assembly and Marker (6 Inch) 3-Port	EA	7	\$12,500.00	\$87,500.00	Yes	
57	237110		Fire Service Connection and Assembly (4 Inch)	EA	2	\$10,000.00	\$20,000.00	Yes	
58	237110		Fire Service Connection and Assembly (8 Inch)	EA	6	\$10,500.00	\$63,000.00	Yes	
59	237110		Water Service (1 Inch)	EA	384	\$3,500.00	\$1,344,000.00	Yes	
60	237110		Water Service (2 Inch)	EA	5	\$6,500.00	\$32,500.00	Yes	
61	237110		Water Service (4 Inch)	EA	1	\$6,500.00	\$6,500.00	Yes	
62	237110		Blow-Off Valve Assembly (2 Inch)	EA	1	\$6,000.00	\$6,000.00	Yes	
63	237110		Air and Vacuum (Air Release) Valve Assembly (2 Inch, Class 250)	EA	7	\$7,000.00	\$49,000.00	Yes	
64	237310		Temporary Resurfacing	TON	286	\$150.00	\$42,900.00	Yes	
65	237110		Thrust Blocks and Anchor Blocks for 16 Inch and Larger Water Mains	EA	20	\$1,000.00	\$20,000.00	Yes	
66	237110		Imported Trench Backfill	TON	6450	\$25.00	\$161,250.00	Yes	
67	237110		Manhole (4 ft x 3 ft)	EA	11	\$9,500.00	\$104,500.00	Yes	
68	237110		Manhole (PVC Lined, 4 ft x 3 ft)	EA	12	\$15,000.00	\$180,000.00	Yes	
69	237110		Connection to Existing Manhole and Rechanneling	EA	6	\$2,000.00	\$12,000.00	Yes	
70	237110		Sewer Lateral and Cleanout (4 Inch, Street)	EA	41	\$3,500.00	\$143,500.00	Yes	
71	237110		Sewer Lateral and Cleanout (4 Inch, Alley)	EA	31	\$1,700.00	\$52,700.00	Yes	
72	237110		Sewer Lateral with Private Replumbing (4 Inch)	EA	28	\$19,000.00	\$532,000.00	Yes	
73	237110		Cleaning and Video Inspection of Existing Pipelines and Culverts	LF	6114	\$1.50	\$9,171.00	Yes	
74	237110		Video Inspection of Pipelines and Culverts for Acceptance	LF	6114	\$1.00	\$6,114.00	Yes	
75	237310		Continental Crosswalks	SF	1750	\$5.00	\$8,750.00	Yes	
76	237310		Removal and Replacement of Existing Paint Striping	LS	1	\$23,500.00	\$23,500.00	Yes	
77	238990		Video Recording of Existing Conditions	LS	1	\$4,700.00	\$4,700.00	Yes	
78	237110		Potholing Existing Utilities Not Shown on Plans (Depth up to 7 Feet)	EA	75	\$500.00	\$37,500.00	Yes	
79	237310		Adjust Existing Manhole Frame and Cover to Grade	EA	5	\$300.00	\$1,500.00	Yes	
80	237310		Adjust Existing Gate Valve Frame and Cover to Grade	EA	5	\$300.00	\$1,500.00	Yes	
81	237310		Adjust Existing Survey Monument to Grade	EA	3	\$300.00	\$900.00	Yes	
82	237310		Traffic Signal Loop and Appurtenance Replacement (Type E Modified)	EA	3	\$925.00	\$2,775.00	Yes	
83	237110		Rehabilitate Sewer Main (15 Inch)	LF	138	\$140.00	\$19,320.00	Yes	
84	237110		Connect Existing Manhole with T-Locked	EA	1	\$2,500.00	\$2,500.00	Yes	
85	541330		Traffic Control and Working Drawings	LS	1	\$15,000.00	\$15,000.00	Yes	
86	237310		Traffic Control	LS	1	\$50,000.00	\$50,000.00	Yes	
87	237110		Contractor Furnished Materials for the City Forces High-line Work	LF	40	\$200.00	\$8,000.00	Yes	
88	237110		Contractor Furnished Materials for City Forces Connection, Cut and Plug, and Cut-In Work for Mains 16-Inch and Larger	LS	1	\$5,200.00	\$5,200.00	Yes	
89	237110		Pavement Restoration for Final Connection	SF	4500	\$15.00	\$67,500.00	Yes	
90	541330		WPCP Development	LS	1	\$700.00	\$700.00	Yes	
91	237310		WPCP Implementation	LS	1	\$30,000.00	\$30,000.00	Yes	
Additive Alternate A							\$438,000.00		
92	237110		Furnished Materials for Contractor High-line Work	LF	29200	\$3.00	\$87,600.00	Yes	
93	237110		High-lining Installation by the Contractor	LF	29200	\$10.00	\$292,000.00	Yes	
94	237110		High-lining Removed by the Contractor	LF	29200	\$2.00	\$58,400.00	Yes	
Additive Alternate B							\$301,500.00		
95	237110		Connections to The Existing System by Contractor (8 Inch through 12 Inch)	EA	25	\$5,500.00	\$137,500.00	Yes	
96	237110		Connections to The Existing System by Contractor (16 Inch)	EA	9	\$4,000.00	\$36,000.00	Yes	
97	237110		Cut-in Tee by Contractor (16 Inch)	EA	1	\$12,000.00	\$12,000.00	Yes	

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
98	237110		Cut and Plug by Contractor	EA	29	\$4,000.00	\$116,000.00	Yes	
Additive Alternate C							\$100,530.00		
99	237110		Dewatering Permit and Discharge Fees (EOC Type I)	AL	1	\$10,000.00	\$10,000.00	Yes	
100	237110		Dewatering Hazardous Contaminated Water	LS	1	\$1,000.00	\$1,000.00	Yes	
101	237110		Dewatering Non-Hazardous Contaminated Water	LS	1	\$50,000.00	\$50,000.00	Yes	
102	562910		Hazardous Waste Operations and Emergency Response (HAZWOPER) Certification (EOC Type I)	AL	1	\$4,280.00	\$4,280.00	Yes	
103	238990		Preparation of Hazardous Waste Management Plan and Reporting	LS	1	\$11,500.00	\$11,500.00	Yes	
104	541690		Monitoring of Contaminated Soil	HR	10	\$172.00	\$1,720.00	Yes	
105	238990		Testing, Sampling, Site Storage, and Handling of Soils Containing RCRA Hazardous Waste	TON	300	\$15.00	\$4,500.00	Yes	
106	238990		Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil	TON	300	\$15.00	\$4,500.00	Yes	
107	238990		Loading, Transportation, and Disposal of Petroleum Contaminated Soil	TON	300	\$35.00	\$10,500.00	Yes	
108	238990		Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of RCRA Hazardous Waste Contamination from the Treatment of Contaminated Ground Water	GAL	55	\$23.00	\$1,265.00	Yes	
109	238990		Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Non-RCRA Hazardous Waste Contamination from the Treatment of Contaminated Ground Water	GAL	55	\$23.00	\$1,265.00	Yes	
Additive Alternate D							\$715,747.84		
110	237310		Asphalt Pavement Repair	TON	15	\$345.00	\$5,175.00	Yes	
111	237310		Class II Aggregate Base	TON	135	\$125.00	\$16,875.00	Yes	
112	237310		Asphalt Concrete Overlay	TON	4000	\$147.00	\$588,000.00	Yes	
113	237310		Cold Mill AC Pavement (> 1½ Inch - 3 Inch)	SF	310876	\$0.34	\$105,697.84	Yes	
Deductive Alternate E							(\$309,868.83)		
114	237310		Asphalt Pavement Repair [(Deductive) Enter unit price as negative (-)]	TON	538	(\$100.00)	(\$53,800.00)	Yes	
115	237310		Rubber Polymer Modified Slurry (RPMS) Type I [(Deductive) Enter unit price as negative (-)]	SF	263442	(\$0.40)	(\$105,376.80)	Yes	
116	237310		Rubber Polymer Modified Slurry (RPMS) Type II [(Deductive) Enter unit price as negative (-)]	SF	288444	(\$0.42)	(\$121,146.48)	Yes	
117	237310		Rubber Polymer Modified Slurry (RPMS) Type III [(Deductive) Enter unit price as negative (-)]	SF	25002	(\$0.90)	(\$22,501.80)	Yes	
118	237310		Crack Seal [(Deductive) Enter unit price as negative (-)]	LB	245	(\$28.75)	(\$7,043.75)	Yes	
Deductive Alternate F							(\$5,200.00)		
119	237110		Contractor Furnished Materials for the City Forces Connection, Cut and Plug, and Cut-in Work for Mains 16 inch and Larger [(Deductive) Enter unit price as negative (-)]	LS	1	(\$5,200.00)	(\$5,200.00)	Yes	
Deductive Alternate G							(\$8,000.00)		
120	237110		Contractor Furnished Materials for the City Forces High-line Work [(Deductive) Enter unit price as negative (-)]	LF	40	(\$200.00)	(\$8,000.00)	Yes	



## Line Item Subtotals

Section Title	Line Total
Main Bid	\$9,802,921.10
Additive Alternate A	\$438,000.00
Additive Alternate B	\$301,500.00
Additive Alternate C	\$100,530.00
Additive Alternate D	\$715,747.84
Deductive Alternate E	(\$309,868.83)
Deductive Alternate F	(\$5,200.00)
Deductive Alternate G	(\$8,000.00)
<b>Grand Total</b>	<b>\$11,035,630.11</b>

Line Totals (Unit Price * Quantity)								
Item Num	Section	Item Code	Description	Reference	Unit of Measure	Quantity	Burtech Pipeline Incorporated - Unit Price	Burtech Pipeline Incorporated - Line Total
1	Main Bid	524126	Bonds (Payment and Performance)	1-7.2.1	LS	1	\$75,000.00	\$75,000.00
2	Main Bid	334290	Remote Control Camera Inspection (EOC Type II)	3-5.1.6	AL	1	\$20,000.00	\$20,000.00
3	Main Bid	237110	Sewage Bypass and Pumping Plan (Diversion Plan)	3-12.5.4	LS	1	\$10,000.00	\$10,000.00
4	Main Bid	541690	Archaeological and Native American Monitoring Program	6-6.2.1.1	LF	4267	\$6.40	\$27,308.80
5	Main Bid	541690	Paleontological Monitoring Program	6-6.2.2.1	LF	4267	\$3.80	\$16,214.60
6	Main Bid	541690	Suspension of Work - Resources	6-6.2.1.1 OR 6-6.2.2.1	DAY	5	\$100.00	\$500.00
7	Main Bid	541690	Archaeological and Native American Mitigation and Curation (EOC Type I)	6-6.2.3.1	AL	1	\$10,000.00	\$10,000.00
8	Main Bid	237110	Mobilization	7-3.4.1	LS	1	\$200,000.00	\$200,000.00
9	Main Bid		Field Orders (EOC Type II)	7-3.9	AL	1	\$255,000.00	\$255,000.00
10	Main Bid	237310	Asphalt Pavement Repair	301-1.7	TON	1970	\$100.00	\$197,000.00
11	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type I	302-4.12.4	SF	567201	\$0.40	\$226,880.40

12	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type II	302-4.12.4	SF	649485	\$0.42	\$272,783.70
13	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type III	302-4.12.4	SF	82284	\$0.90	\$74,055.60
14	Main Bid	237310	Pavement Restoration Adjacent to Trench	302-5.2.1	SF	27900	\$2.00	\$55,800.00
15	Main Bid	238910	Concrete Pavement (7 Inch Thick)	302-6.8	CY	1324	\$375.00	\$496,500.00
16	Main Bid	237310	Crack Seal	302-15.5	LB	550	\$28.00	\$15,400.00
17	Main Bid	237310	Historical and Contractor Date Stamps and Impressions	303-5.9	EA	16	\$115.00	\$1,840.00
18	Main Bid	237310	Remove and Replace Existing Sidewalk	303-5.9	SF	100	\$30.00	\$3,000.00
19	Main Bid	237310	Cross Gutter	303-5.9	SF	1390	\$18.00	\$25,020.00
20	Main Bid	237310	Concrete Driveway (Contiguous)	303-5.9	SF	50	\$40.00	\$2,000.00
21	Main Bid	237310	Alley Apron	303-5.9	SF	100	\$28.50	\$2,850.00
22	Main Bid	237310	Curb Ramp (Type D) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	18	\$4,100.00	\$73,800.00
23	Main Bid	237310	Curb Ramp (Type A) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	12	\$5,230.00	\$62,760.00
24	Main Bid	237310	Curb Ramp (Type B) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	12	\$4,050.00	\$48,600.00

25	Main Bid	237310	Curb Ramp (Type C1) with Stainless Steel Detectable Warning Tiles	<b>303-5.10.2</b>	EA	8	\$4,550.00	\$36,400.00
26	Main Bid	237310	Curb Ramp (Type C2) with Stainless Steel Detectable Warning Tiles	<b>303-5.10.2</b>	EA	21	\$5,000.00	\$105,000.00
27	Main Bid	237310	Curb Ramp Modified (Type C2, Per 41338-43-D) with Detectable Warning Tiles	<b>303-5.10.2</b>	EA	2	\$5,000.00	\$10,000.00
28	Main Bid	237310	Curb Ramp Modified (Type D, Per 41338-43-D) with Stainless Steel Detectable Warning Tiles	<b>303-5.10.2</b>	EA	1	\$4,100.00	\$4,100.00
29	Main Bid	237310	Curb Ramp Modified (Type D, Per 41338-44-D) with Stainless Steel Detectable Warning Tiles	<b>303-5.10.2</b>	EA	1	\$4,100.00	\$4,100.00
30	Main Bid	237110	Phased Paving	<b>306-1.2.1</b>	EA	10	\$500.00	\$5,000.00
31	Main Bid	237110	Abandon and Fill Existing Water Main Outside of the Trench Limit	<b>306-3.3.4</b>	LF	3437	\$11.00	\$37,807.00
32	Main Bid	237110	Abandon and Fill Existing Sewer Main (6 Inch) Outside of the Trench Limit	<b>306-3.3.4</b>	LF	2106	\$11.00	\$23,166.00

33	Main Bid	237110	Abandon and Fill Existing Sewer Main (8 Inch) Outside of the Trench Limit	306-3.3.4	LF	237	\$11.00	\$2,607.00
34	Main Bid	237110	Abandon and Fill Existing Sewer Main (10 Inch) Outside of the Trench Limit	306-3.3.4	LF	52	\$20.00	\$1,040.00
35	Main Bid	237110	Abandon and Fill Existing Sewer Main (14 Inch) Outside of the Trench Limit	306-3.3.4	LF	515	\$12.00	\$6,180.00
36	Main Bid	237110	Abandon and Fill Existing Sewer Main (15 Inch) Outside of the Trench Limit	306-3.3.4	LF	33	\$30.00	\$990.00
37	Main Bid	237110	Abandon Existing Manhole Outside of the Trench Limit	306-3.3.4	EA	13	\$1,800.00	\$23,400.00
38	Main Bid	237110	Handling and Disposal of Non-friable Asbestos Material	306-3.3.5.5	LF	11022	\$12.00	\$132,264.00
39	Main Bid	237110	Additional Bedding	306-15.1	CY	570	\$1.00	\$570.00
40	Main Bid	237110	Water Main (8 Inch)	306-15.1	LF	5602	\$133.00	\$745,066.00
41	Main Bid	237110	Water Main (12 Inch)	306-15.1	LF	4546	\$175.00	\$795,550.00
42	Main Bid	237110	Water Main (16 Inch)	306-15.1	LF	3766	\$250.00	\$941,500.00
43	Main Bid	237110	Water Main (8 Inch, Class 305)	306-15.1	LF	332	\$140.00	\$46,480.00
44	Main Bid	237110	Water Main (12 Inch, Class 305)	306-15.1	LF	338	\$200.00	\$67,600.00
45	Main Bid	237110	Sewer Main (8 Inch)	306-15.1	LF	1783	\$140.00	\$249,620.00
46	Main Bid	237110	Sewer Main (10 Inch)	306-15.1	LF	1304	\$162.00	\$211,248.00
47	Main Bid	237110	Sewer Main (12 Inch)	306-15.1	LF	1032	\$170.00	\$175,440.00
48	Main Bid	237110	Sewer Main (15 Inch)	306-15.1	LF	87	\$400.00	\$34,800.00

49	Main Bid	237110	Sewer Main (8 Inch, SDR-26)	306-15.1	LF	718	\$315.00	\$226,170.00
50	Main Bid	237110	Sewer Main (12 Inch, SDR-26)	306-15.1	LF	192	\$215.00	\$41,280.00
51	Main Bid	237110	Engineered Trench Shoring	306-15.2	LS	1	\$75,000.00	\$75,000.00
52	Main Bid	237110	Butterfly Valve (16 Inch, Class 150B)	306-15.5	EA	17	\$5,500.00	\$93,500.00
53	Main Bid	237110	Gate Valve (8 Inch)	306-15.5	EA	16	\$2,300.00	\$36,800.00
54	Main Bid	237110	Gate Valve (12 Inch)	306-15.5	EA	11	\$3,450.00	\$37,950.00
55	Main Bid	237110	Fire Hydrant Assembly and Marker (6 Inch) 2-Port	306-15.6	EA	28	\$11,000.00	\$308,000.00
56	Main Bid	237110	Fire Hydrant Assembly and Marker (6 Inch) 3-Port	306-15.6	EA	7	\$12,500.00	\$87,500.00
57	Main Bid	237110	Fire Service Connection and Assembly (4 Inch)	306-15.6	EA	2	\$10,000.00	\$20,000.00
58	Main Bid	237110	Fire Service Connection and Assembly (8 Inch)	306-15.6	EA	6	\$10,500.00	\$63,000.00
59	Main Bid	237110	Water Service (1 Inch)	306-15.8	EA	384	\$3,500.00	\$1,344,000.00
60	Main Bid	237110	Water Service (2 Inch)	306-15.8	EA	5	\$6,500.00	\$32,500.00
61	Main Bid	237110	Water Service (4 Inch)	306-15.8	EA	1	\$6,500.00	\$6,500.00
62	Main Bid	237110	Blow-Off Valve Assembly (2 Inch)	306-15.8	EA	1	\$6,000.00	\$6,000.00
63	Main Bid	237110	Air and Vacuum (Air Release) Valve Assembly (2 Inch, Class 250)	306-15.8	EA	7	\$7,000.00	\$49,000.00
64	Main Bid	237310	Temporary Resurfacing	306-15.9	TON	286	\$150.00	\$42,900.00
65	Main Bid	237110	Thrust Blocks and Anchor Blocks for 16 Inch and Larger Water Mains	306-15.10	EA	20	\$1,000.00	\$20,000.00

66	Main Bid	237110	Imported Trench Backfill	306-15.11	TON	6450	\$25.00	\$161,250.00
67	Main Bid	237110	Manhole (4 ft x 3 ft)	306-16.6	EA	11	\$9,500.00	\$104,500.00
68	Main Bid	237110	Manhole (PVC Lined, 4 ft x 3 ft)	306-16.6	EA	12	\$15,000.00	\$180,000.00
69	Main Bid	237110	Connection to Existing Manhole and Rechanneling	306-16.6	EA	6	\$2,000.00	\$12,000.00
70	Main Bid	237110	Sewer Lateral and Cleanout (4 Inch, Street)	306-17.2	EA	41	\$3,500.00	\$143,500.00
71	Main Bid	237110	Sewer Lateral and Cleanout (4 Inch, Alley)	306-17.2	EA	31	\$1,700.00	\$52,700.00
72	Main Bid	237110	Sewer Lateral with Private Replumbing (4 Inch)	306-17.2	EA	28	\$19,000.00	\$532,000.00
73	Main Bid	237110	Cleaning and Video Inspection of Existing Pipelines and Culverts	306-18.7	LF	6114	\$1.50	\$9,171.00
74	Main Bid	237110	Video Inspection of Pipelines and Culverts for Acceptance	306-18.7	LF	6114	\$1.00	\$6,114.00
75	Main Bid	237310	Continental Crosswalks	314-4.4.6	SF	1750	\$5.00	\$8,750.00
76	Main Bid	237310	Removal and Replacement of Existing Paint Striping	314-4.3.7	LS	1	\$23,500.00	\$23,500.00
77	Main Bid	238990	Video Recording of Existing Conditions	400-1.1.1	LS	1	\$4,700.00	\$4,700.00
78	Main Bid	237110	Potholing Existing Utilities Not Shown on Plans (Depth up to 7 Feet)	402-8	EA	75	\$500.00	\$37,500.00

79	Main Bid	237310	Adjust Existing Manhole Frame and Cover to Grade	403-5	EA	5	\$300.00	\$1,500.00
80	Main Bid	237310	Adjust Existing Gate Valve Frame and Cover to Grade	403-5	EA	5	\$300.00	\$1,500.00
81	Main Bid	237310	Adjust Existing Survey Monument to Grade	403-5	EA	3	\$300.00	\$900.00
82	Main Bid	237310	Traffic Signal Loop and Appurtenance Replacement (Type E Modified)	404-12	EA	3	\$925.00	\$2,775.00
83	Main Bid	237110	Rehabilitate Sewer Main (15 Inch)	500-12	LF	138	\$140.00	\$19,320.00
84	Main Bid	237110	Connect Existing Manhole with T-Locked	502-5.6.1	EA	1	\$2,500.00	\$2,500.00
85	Main Bid	541330	Traffic Control and Working Drawings	601-7	LS	1	\$15,000.00	\$15,000.00
86	Main Bid	237310	Traffic Control	601-7	LS	1	\$50,000.00	\$50,000.00
87	Main Bid	237110	Contractor Furnished Materials for the City Forces High-line Work	900-1.9	LF	40	\$200.00	\$8,000.00
88	Main Bid	237110	Contractor Furnished Materials for City Forces Connection, Cut and Plug, and Cut-In Work for Mains 16-Inch and Larger	900-2.3	LS	1	\$5,200.00	\$5,200.00
89	Main Bid	237110	Pavement Restoration for Final Connection	901-2.5	SF	4500	\$15.00	\$67,500.00
90	Main Bid	541330	WPCP Development	1001-4.2	LS	1	\$700.00	\$700.00
91	Main Bid	237310	WPCP Implementation	1001-4.2	LS	1	\$30,000.00	\$30,000.00
							Subtotal	\$9,802,921.10



92	Additive Alternate A	237110	Furnished Materials for Contractor High-line Work	900-1.9	LF	29200	\$3.00	\$87,600.00
93	Additive Alternate A	237110	High-lining Installation by the Contractor	901-1.3	LF	29200	\$10.00	\$292,000.00
94	Additive Alternate A	237110	High-lining Removed by the Contractor	901-1.3	LF	29200	\$2.00	\$58,400.00
							Subtotal	\$438,000.00
95	Additive Alternate B	237110	Connections to The Existing System by Contractor (8 Inch through 12 Inch)	901-2.5	EA	25	\$5,500.00	\$137,500.00
96	Additive Alternate B	237110	Connections to The Existing System by Contractor (16 Inch)	901-2.5	EA	9	\$4,000.00	\$36,000.00
97	Additive Alternate B	237110	Cut-in Tee by Contractor (16 Inch)	901-2.5	EA	1	\$12,000.00	\$12,000.00
98	Additive Alternate B	237110	Cut and Plug by Contractor	901-2.5	EA	29	\$4,000.00	\$116,000.00
							Subtotal	\$301,500.00
99	Additive Alternate C	237110	Dewatering Permit and Discharge Fees (EOC Type I)	3-12.8.8	AL	1	\$10,000.00	\$10,000.00
100	Additive Alternate C	237110	Dewatering Hazardous Contaminated Water	3-12.8.8	LS	1	\$1,000.00	\$1,000.00
101	Additive Alternate C	237110	Dewatering Non-Hazardous Contaminated Water	3-12.8.8	LS	1	\$50,000.00	\$50,000.00

102	Additive Alternate C	562910	Hazardous Waste Operations and Emergency Response (HAZWOPER) Certification (EOC Type I)	5-15.17	AL	1	\$4,280.00	\$4,280.00
103	Additive Alternate C	238990	Preparation of Hazardous Waste Management Plan and Reporting	5-15.17	LS	1	\$11,500.00	\$11,500.00
104	Additive Alternate C	541690	Monitoring of Contaminated Soil	5-15.17	HR	10	\$172.00	\$1,720.00
105	Additive Alternate C	238990	Testing, Sampling, Site Storage, and Handling of Soils Containing RCRA Hazardous Waste	5-15.17	TON	300	\$15.00	\$4,500.00
106	Additive Alternate C	238990	Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil	5-15.17	TON	300	\$15.00	\$4,500.00
107	Additive Alternate C	238990	Loading, Transportation, and Disposal of Petroleum Contaminated Soil	5-15.17	TON	300	\$35.00	\$10,500.00
108	Additive Alternate C	238990	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of RCRA Hazardous Waste Contamination from the Treatment of Contaminated Ground Water	5-15.17	GAL	55	\$23.00	\$1,265.00

109	Additive Alternate C	238990	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Non-RCRA Hazardous Waste Contamination from the Treatment of Contaminated Ground Water	<b>5-15.17</b>	GAL	55	\$23.00	\$1,265.00
							Subtotal	\$100,530.00
110	Additive Alternate D	237310	Asphalt Pavement Repair	<b>301-1.7</b>	TON	15	\$345.00	\$5,175.00
111	Additive Alternate D	237310	Class II Aggregate Base	<b>301-2.4</b>	TON	135	\$125.00	\$16,875.00
112	Additive Alternate D	237310	Asphalt Concrete Overlay	<b>302-5.9</b>	TON	4000	\$147.00	\$588,000.00
113	Additive Alternate D	237310	Cold Mill AC Pavement (> 1½ Inch - 3 Inch)	<b>404-12</b>	SF	310876	\$0.34	\$105,697.84
							Subtotal	\$715,747.84
114	Deductive Alternate E	237310	Asphalt Pavement Repair [(Deductive) Enter unit price as negative (-)]	<b>301-1.7</b>	TON	538	-\$100.00	-\$53,800.00
115	Deductive Alternate E	237310	Rubber Polymer Modified Slurry (RPMS) Type I [(Deductive) Enter unit price as negative (-)]	<b>302-4.12.4</b>	SF	263442	-\$0.40	-\$105,376.80

116	Deductive Alternate E	237310	Rubber Polymer Modified Slurry (RPMS) Type II [(Deductive) Enter unit price as negative (-)]	<b>302-4.12.4</b>	SF	288444	-\$0.42	-\$121,146.48
117	Deductive Alternate E	237310	Rubber Polymer Modified Slurry (RPMS) Type III [(Deductive) Enter unit price as negative (-)]	<b>302-4.12.4</b>	SF	25002	-\$0.90	-\$22,501.80
118	Deductive Alternate E	237310	Crack Seal [(Deductive) Enter unit price as negative (-)]	<b>302-15.5</b>	LB	245	-\$28.75	-\$7,043.75
							Subtotal	-\$309,868.83
119	Deductive Alternate F	237110	Contractor Furnished Materials for the City Forces Connection, Cut and Plug, and Cut-in Work for Mains 16 inch and Larger [(Deductive) Enter unit price as negative (-)]	<b>900-2.3</b>	LS	1	-\$5,200.00	-\$5,200.00
							Subtotal	-\$5,200.00
120	Deductive Alternate G	237110	Contractor Furnished Materials for the City Forces High-line Work [(Deductive) Enter unit price as negative (-)]	<b>900-1.9</b>	LF	40	-\$200.00	-\$8,000.00
							Subtotal	-\$8,000.00
							Total	\$11,035,630.11

**SUBCONTRACTOR LISTING (OTHER THAN FIRST TIER)**

Pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder is to list below the name, address, license number, DIR registration number of any (known tiered subcontractor) - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract. If none are known at this time, mark the table below with non-applicable (N/A).**

Prime Contractor Name: Burtech Pipeline, Incorporated

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK
Name: _____ Address: _____ City: _____ State: _____ N/A Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				

**\*\* USE ADDITIONAL FORMS AS NECESSARY \*\***

## COVID-19 VACCINATION ORDINANCE

CONTRACTOR INFORMATION	
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Company Name: Burtech Pipeline, Incorporated	
Company Address: 102 Second Street, Encinitas, CA 92024	
Company Contact Name: Dominic Burtech	Contact Phone: 760-634-2822

CONTRACT INFORMATION	
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Contract Number (if none, purchase order number): K-22-2047-DBB-3	Start Date:
Contract Title (or description): AC Water & Sewer Group 1052	<input checked="" type="checkbox"/> End Date:

TERMS OF COMPLIANCE	
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The Mandatory COVID-19 Vaccination Policy, outlined in San Diego Ordinance O-21398 (Nov. 29, 2021), requires **ALL** City of San Diego (City) contractors, who interact in close contact with City employees while providing contracted services indoors in City facilities or while performing bargaining unit work while indoors, to be fully vaccinated against COVID-19, effective January 3, 2022, as a condition for provision or continued provision of contracted services.

1. "City contractor" means a person who has contracted with the City of San Diego to provide public works, goods, services, franchise, or consultant services for or on behalf of the City, and includes a subcontractor, vendor, franchisee, consultant, or any of their respective officers, directors, shareholders, partners, managers, employees, or other individuals associated with the contractor, subcontractor, consultant, or vendor. "Person" means any natural person, firm, joint venture, joint stock company, partnership, association, club, company, corporation business trust or organization.
2. "Fully vaccinated" means a person has received, at least 14 days prior, either the second dose in a two-dose COVID-19 vaccine series or a single-dose COVID-19 vaccine, or otherwise meets the criteria for full vaccination against COVID-19 as stated in applicable public health guidance, orders, or law. Acceptable COVID-19 vaccines must be approved by the U.S. Food and Drug Administration (FDA) or authorized for emergency use by the FDA or the World Health Organization.
3. "Close Contact" means a City contractor is **within 6 feet** of a City employee for a **cumulative total of 15 minutes or more over a 24-hour period** (for example, three individual 5-minute exposures for a total of 15 minutes).
4. Contractors who interact in close contact with City employees must fully comply with the City's Mandatory COVID-19 Vaccination Policy, which may include a reporting program that tracks employee vaccination status.
5. Contractors with employees or subcontractors who interact in close contact with City employees must certify that those members of their workforce, and subcontractors regardless of tier, who work at a City facility, are fully vaccinated and that the contractor has a program to track employee compliance.
6. Contractors that have an Occupational Safety and Health Administration compliant testing program for members of their workforce, as a reasonable accommodation, may be considered for compliance.

**Non-compliance with the City's Mandatory COVID-19 Vaccination Policy may result in termination of a contract for cause, pursuant to the City's General Terms and Provisions, Reference Standards, and the San Diego Municipal Code.**

CONTRACTOR CERTIFICATION	
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By signing, I Dominic Burtech, who is an authorized signatory of contractor Burtech Pipeline, Incorporated, certify under penalty of perjury under the laws of the State of California, compliance with the City's Mandatory COVID-19 Vaccination Policy.

<u>Dominic Burtech</u> Name of Signatory	<u>President &amp; CEO</u> Title of Signatory
 Signature	<u>March 15, 2022</u> Date

**FOR OFFICIAL CITY USE ONLY**

Date of Receipt: <u>03/16/2022</u>	P&C Staff: <u>Rosay Isela Riego</u>	Contract Number: <u>K-22-2047-DBB-3</u>
Date of Receipt:	Compliance Dept. Staff:	