

ENGINEER OF WORK

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

S.P. Bose

For City Engineer

12/5/19

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)	At Time of Bid	ALL BIDDERS
2.	Contractors Certification of Pending Actions	At Time of Bid	ALL BIDDERS
3.	Mandatory Disclosure of Business Interests	At Time of Bid	ALL BIDDERS
4.	Debarment and Suspension Certification	At Time of Bid	ALL BIDDERS
5.	Contractor's Experience and Past Project Documentation. See SSPs and 2018 WB Section 500-2.1, "Initial Submittals"	At Time of Bid	ALL BIDDERS
6.	Manufacturer Authorized Installer Certification. See SSP and 2018 WB Section 500-2.1, "Initial Submittals"	At Time of Bid	ALL BIDDERS
7.	Bid Bond (Original)	Within 24 Hours of Bid opening	5 APPARENT LOW BIDDERS
8.	SLBE Good Faith Effort Documentation	Within 3 working days of bid opening	ALL BIDDERS
9.	Form AA60 – List of Work Made Available	Within 3 working days of bid opening with Good Faith Effort (GFE) documentation	ALL BIDDERS
10.	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.	Within 3 working days of bid opening with Good Faith Effort (GFE) documentation	ALL BIDDERS

ITEM	DOCUMENT TO BE SUBMITTED	WHEN DUE	FROM
11.	Phased Funding Schedule Agreement	Within 10 working days of receipt by bidder of the Notice of Intent to Award	APPARENT LOW BIDDER
12.	Pre-Award Schedule (Phased Funded Contracts Only)	Within 10 working days of receipt by bidder of contract forms	APPARENT LOW BIDDER
13.	Contract Forms - Agreement	Within 10 working days of receipt by bidder of contract forms	APPARENT LOW BIDDER
14.	Contract Forms - Payment and Performance Bond	Within 10 working days of receipt by bidder of contract forms	APPARENT LOW BIDDER
15.	Certificates of Insurance and Endorsements	Within 10 working days of receipt by bidder of contract forms	APPARENT LOW BIDDER
16.	Listing of "Other Than First Tier" Subcontractors	Within 10 working days of receipt by bidder of contract forms	APPARENT LOW BIDDER

NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **Pipeline Rehabilitation AX-1**. 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 **\$4,231,000**.
4. **BID DUE DATE AND TIME ARE: JANUARY 22, 2020 at 2:00 PM**
5. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
6. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classifications: **A** or **C-34**
7. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
 - 7.1. 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	6.2%
2. ELBE participation	9.1%
3. Total mandatory participation	15.3%
 - ~~7.2.~~ The Bid may be declared non-responsive if the Bidder fails to meet the following requirements:
 - 7.2.1. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
 - 7.2.2. Submit Good Faith Effort documentation, saved in searchable Portable Document Format (PDF) and stored on a Universal Serial Bus (USB) Type-A, Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Days of the Bid opening if the overall mandatory participation percentage is not met.

8. AWARD PROCESS:

- 8.1. 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.
- 8.2. 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.
- 8.3. 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.
- 8.4. The low Bid will be determined by the Base Bid.
- 8.5. Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base Bid alone.

9. SUBMISSION OF QUESTIONS:

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

Public Works Contracts
525 B Street, Suite 750 (7th Floor)
San Diego, California, 92101
Attention: Antoinette Sanfilippo

OR:

ASanfilippo@sandiego.gov

- 9.2. Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 9.3. 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.
- 9.4. 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.

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

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 and 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 on line. 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 Public Works 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”) http://www.greenbookspecs.org/	2018	PWPI010119-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)* https://www.sandiego.gov/publicworks/edocref/greenbook	2018	PWPI010119 -02
City of San Diego Standard Drawings* https://www.sandiego.gov/publicworks/edocref/standarddraw	2018	PWPI010119 -03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/publicworks/edocref/drawings	2018	PWPI010119 -04
California Department of Transportation (CALTRANS) Standard Specifications – http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2018	PWPI030119-05
CALTRANS Standard Plans http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2018	PWPI030119-06

Title	Edition	Document Number
California Manual on Uniform Traffic Control Devices Revision 4 (CA MUTCD Rev 4) http://www.dot.ca.gov/trafficops/camutcd/	2014	PWPI030119-08
<p>NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml</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 – Section 3-2, “SELF-PERFORMANCE”, 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 Public Works Contracts.
- 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. Within twenty-four (24) hours after the bid due date and time, the first five (5) apparent low bidders must provide the City with the original bid security.
- 19.5. Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original within twenty-four (24) hours shall cause the bid to be rejected and deemed **non-responsive**.

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 in the herein and in the Notice of 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:

Southwest Pipeline and Trenchless Corporation, a corporation, as principal, and Liberty 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 Two Million Eight Hundred Thirty Three Thousand Two Hundred Nineteen Dollars and Zero Cents (\$2,833,219.00) for the faithful performance of the annexed contract, and in the sum of Two Million Eight Hundred Thirty Three Thousand Two Hundred Nineteen Dollars and Zero Cents (\$2,833,219.00), for the benefit of laborers and materialmen designated below.

Conditions:

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

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

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

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

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

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

Dated March 17, 2020

Approved as to Form

Southwest Pipeline and Trenchless Corp.

Principal

By [Signature]

Justin Duchaineau-President

Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By [Signature]

Deputy City Attorney

Liberty Mutual Insurance Company

Surety

By [Signature]

Noemi Quiroz, Attorney-in-fact



790 The City Drive South Suite 200

Local Address of Surety

Orange, CA 92868

Local Address (City, State) of Surety

(714) 634-5720

Local Telephone No. of Surety

Premium \$ 23,404.00

Bond No. 024243778

Approved:

By [Signature]

Stephen Samara

Principal Contract Specialist
Public Works Department

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Civil Code § 1189

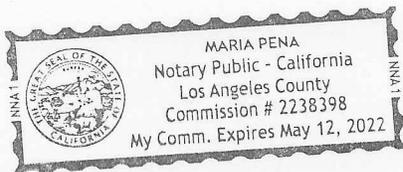
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

State of California)
) ss
County of Los Angeles)

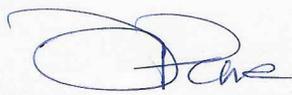
On 3-17-20, before me, Maria Pena, Notary Public, personally appeared Noemi Quiroz, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.



(Seal)

Signature: 
Maria Pena, Notary Public

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees. To confirm the validity of this Power of Attorney call 610-832-8240 between 9:00 am and 4:30 pm EST on any business day.



Liberty Mutual.

SURETY

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

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Noemi Quiroz of the city of Los Angeles, state of CA its true and lawful attorney-in-fact, with full power and authority hereby conferred to sign, execute and acknowledge the following surety bond:

Principal Name: Southwest Pipeline and Trenchless Corp.

Obligee Name: The City of San Diego

Surety Bond Number: 024243778

Bond Amount: See Bond Form

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 12th day of December, 2018.



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

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

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 12th day of December, 2018, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

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

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

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

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

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

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company do hereby certify that this power of attorney executed by said Companies is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 17th day of March, 2020.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

ATTACHMENTS

ATTACHMENT A
SCOPE OF WORK

SCOPE OF WORK

- 1. SCOPE OF WORK:** The proposed scope of work consists of trenchless rehabilitation of approximately 27,846 LF (5.27 miles) of existing 8-inch and 12-inch vitrified clay pipe (VCP) sewer mains. The project also includes approximately 6 points repairs, rehabilitation of all associated sewer laterals from sewer main to property line, rehabilitation of 39 manholes, replacement of 6 manholes, repair of 6 manholes, installation of 10 new main line cleanouts and installation of sewer lateral cleanouts as needed to complete the lateral lining work. Related work includes street resurfacing.

 - 1.1.** The Work shall be performed in accordance with:

 - 1.1.1.** The Notice Inviting Bids and **Appendix H, Site Maps Sheets 1 through 18**, inclusive.
- 2. LOCATION OF WORK:** The location of the Work is as follows:

See Location Map per **Appendix E**.
- 3. CONTRACT TIME:** The Contract Time for completion of the Work, shall be **250 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 9-3, "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

BID NUMBER: K-20-1898-DBB-3

CONTRACT OR TASK TITLE: Pipeline Rehabilitation AX-1

CONTRACTOR: Southwest Pipeline and Trenchless Corp.

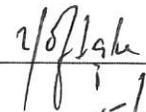
Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Work to be completed in Phase 1 shall include: Bonds, Mobilization, videotaping of existing conditions, and pipeline rehabilitation of 2.0 miles of VC sewer mains from Maps 1-7, associated sewer laterals, point repairs, top hat connections, and surface improvements.	Notice to Proceed	11/30/2020	\$1,290,000
2	Work to be completed in Phase 2 shall include the remaining 3.27 miles of VC sewer main from Maps 8-18, associated sewer laterals, point repairs, top hat connections, and surface improvements.	12/01/2020	Notice of Completion	\$1,543,219
Contract Total				\$2,833,219.00

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: YOFANE GHILIAMICHAEL
Construction Senior Engineer

Signature: 
 Date: 5/12/20

PRINT NAME: Sheila Bose
Design Senior Engineer

Signature: 
 Date: 5/7/20

CONTRACTOR

PRINT NAME: _____

JUSTIN P. DUCHAINEAU
 PRESIDENT/TREASURER/RMO
 SOUTHWEST PIPELINE AND
 TRENCHLESS CORP.

Title: _____
 Signature: 
 Date: 5/7/20

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.

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 its 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.
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** - The procedure the City uses to evaluate the status of the Project or the 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 **7:00 AM to 5:00 PM, unless otherwise directed by SSP Section 3-15.3 coordination, item 3.**

To the "WHITEBOOK", ADD the following:

108. **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.

109. **Acceptance of Work** – When all of the Contract work is deemed officially complete, including all Punchlist items, by the Owner.
110. **Occupancy** – When the Owner deems a building is ready for use, the Owner will issue a certificate of Occupancy in writing.

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

9. 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**.
10. 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.
11. 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.

12. 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.

SECTION 2 - SCOPE OF THE WORK

2-2 PERMITS, FEES, AND NOTICES. To the "WHITEBOOK", ADD the following:

2. Metropolitan Transit System (MTS) Permit.

1. You shall apply and obtain the MTS Encroachment Permit to be able to do work within the existing City easements next to MTS right-a-way per Site Maps, sheet 6.
 - a) You shall pay for and secure the permit prior to construction.
 - b) You shall arrange and pay for any inspection as required by MTS.
 - c) All work crew personnel entering the MTS Right-of-Way within Trolley-operation areas must have valid MTS/San Diego Trolley Inc. (SDTI) roadway rail safety program certification. This requires attendance at the 4-hour MTS Roadway Safety Training- Contractors. More information regarding safety training can be found at <https://www.sdmts.com/business-center-permits/safety-training>. For information, visit <https://www.sdmts.com/business-center-permits/right-entry>. For inquiries, contact mtsrow@sdmts.com.

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.

3-8.4 Supporting Information. To the "WHITEBOOK", ADD the following:

4. You shall collect and submit rehabilitation data spreadsheets along with monthly invoices for the following rehabilitation Work (see **Appendix K - Sewer Mains, Laterals, and Manhole Rehabilitation Sample Data Templates**)
 - a) Sewer Mains
 - b) Laterals
 - c) Manholes

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 - 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.

3-13.1 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) 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 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. 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. 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 of a Walk-through in writing or schedule a Walk-through inspection. The Engineer shall facilitate the Walk-through.

2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. You shall remain solely responsible for the Project Site until the Project is completely operational, all Punchlist items have been corrected, and all operation and maintenance manuals have been accepted by the City.
8. The Engineer shall meet with you until 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 deliver the final As-builts and final billing prior to Acceptance.
2. You shall assemble and deliver to the Engineer a Final Summary Report and Affidavit of Disposal prior to Acceptance.
3. 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

Specified Item	Minimum Warranty Period
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. 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 of the project that is bounded by State Route 94 to the north, 69th street to the east, Imperial Avenue to the south, and Euclid Avenue to the west. See **Appendix F - Adjacent Projects Maps** for the approximate location. Coordinate the Work with the adjacent projects as listed below:
 - a) Limit of work: Luber St & 57 St; Roswell St at 57th St at Swaner and at Old Memory Ln, AC Resurfacing Group 1903, Project Manager, Ottone Amore, phone (619) 527-0891
 - b) Limit of work: Market & Pitta St; Residential Block 4R1, UU899, Project Manager, Ross Bowen, phone (619) 858-541-4363
 - c) Limit of work: At Alvin St, Derby St, Creston St & Selma St; Slurry Seal Group 1925, Efren Fernandez, phone (516) 527-5409
 - d) Limit of work: Klauber Ave & Sparrow St, Water Group 970 CL; B-18075; Joshua Adelman, phone (619) 533-4656

- e) Limit of work: Intersection of Wunderlin Ave & Akins Ave and Klauber Ave & Bittern St; AC Water & Sewer Group 1029; BG-15174; Eric Pinard, phone (858) 573-5088
- 3. Encanto Elementary School:
 - a) Point of contact for coordination and school hours would be the principal or representative at (619) 344- 6700. Working hours for proposed rehab work on Exhibit Map 9 are either during night work 9:00 p.m. to 5:00 a.m. or when school is not in session. Encanto Elementary School (San Diego Unified School District) is at 822 65th Street, San Diego, CA 92114.
- 4. Contractor shall not initiate ground disturbance until receipt of an approved monumentation sheet prepared by the City of San Diego.

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:

<http://www.sandiego.gov/publicworks/edocref/index.shtml>

SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

5-4 INSURANCE. To the “GREENBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

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.

5-4.2.6 Railroad Protective Liability Insurance. Exclusions relating to performance of operations within the vicinity of any railroad, bridge, trestle, roadbed, tunnel, underpass, or cross shall be deleted from all policies to which they may apply.

Alternatively, you may provide separate Railroad Protective Liability insurance providing coverage, including endorsements, equivalent to that required for the CGL described herein.

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.

5-4.6 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., all endorsements.

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.

ADD:

5-10.2.1 Public Notice by Contractor. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

- 3. Furnish and distribute public notices in the form of door hangers using the City's format to all occupants and/or property owners along streets:
 - a) Where Work is to be performed at least 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/publicworks/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. You shall ensure that construction staff have the required Hazardous Waste Operations and Emergency Response (HAZWOPER) certification for construction activities that have encountered flammable liquids or other hazardous substances. 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.

SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

6-1.1 Construction Schedule. To the “WHITEBOOK”, item 1, subsection “s”, DELETE in its entirety and SUBSTITUTE with the following:

- 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/publicworks/edocref>

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.

6-2.1 Moratoriums. To the “WHITEBOOK”, ADD the following:

3. Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed below:
 - a) Work on Guymon Street and 51st Street (Map 1), Federal Boulevard and Mac Arthur Drive (Map 18) is to be completed during the dry season (May 1st to September 30th)

- b) Paving moratorium on Geneva Avenue between 51st Street and Beverly Street ends on 5/19/2021
- c) Paving moratorium on Akins Avenue between 66th Street to 67th Street ends on 5/18/2021
- d) Paving moratorium on Mallard Street between Bluebird Street to Holstrom Place ends on 4/4/2023

6-3 TIME OF COMPLETION. To the “WHITEBOOK”, ADD the following:

- 1. You shall complete the liner installation of 27,846 LF (5.27 miles) of sewer mains and the lateral reinstatements as verified by the Resident Engineer within **187 Working Days** from the date of NTP. Complete the remaining Work as part of this project, including , street resurfacing, punch list items and post-lining CCTV video, within the remaining number of Working Days.

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 a **Notice of Exemption** for **Pipeline Rehabilitation AX-1**, Project No. **B-18203.02.06**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Notice of Exemption** 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.
3. Construction access at Guymon Street and 51st Street, and Federal Boulevard and MacArthur Drive will be limited to hand crews only during the day using hand carried equipment and materials utilizing the existing sewer access paths shown on Map 1 and 18 per the Notice of Exemption.

SECTION 7 - MEASUREMENT AND PAYMENT

7-3.1 Payment. To the "WHITEBOOK", ADD the following:

4. Sewer lateral drop connection and cleanout shall include all necessary labor, material, and equipment in order to complete the connection to the sewer main no matter the depth of the lateral pipe.

7-3.9

Field Orders. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. If the cumulative total of Field Order items of Work does not exceed the "Field Orders" Bid Item, the City shall pay those Field Orders as shown below:

**TABLE 7-3.9
FIELD ORDER LIMITS**

Contract Price	Maximum Field Order Work Amount
Less than \$100,001	\$2,500
\$100,001 to \$1,000,000	\$5,000
\$1,000,001 to \$5,000,000	\$10,000
\$5,000,001 to \$15,000,000	\$20,000
\$15,000,001 to \$30,000,000	\$40,000
Greater than \$30,000,000	\$50,000

2. Field Order items of Work for contracts greater than \$15,000,000 will require additional approvals from the City prior to its approval by the Resident Engineer.
3. The City will issue a Field Order only after the City's acceptance of the cost of the field order amount.
4. Field Orders shall not be used to add scope or to include extensions of time related to changes in work.
5. If in the event there is a change related to the critical path on the project which necessitates an extension of time and the change amount is within the Field Order limits shown on Table 7-3.9, then a Field Order can be issued to compensate you for the approved costs. Any extensions of time associated with the change shall be included in a subsequent Change Order and no additional compensation shall be granted as part of the change order for the extension of time.
6. The unused portions of Field Orders Bid item shall revert to the City upon Acceptance.

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.

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 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 its 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 306 – OPEN TRENCH CONDUIT CONSTRUCTION

ADD:

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 402 – UTILITIES

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

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

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:**
 - e) 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.
- f) 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 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 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**.
-

SUPPLEMENTARY SPECIAL PROVISIONS
APPENDICES

APPENDIX A
NOTICE OF EXEMPTION

NOTICE OF EXEMPTION

(Check one or both)

TO: Recorder/County Clerk
P.O. Box 1750, MS A-33
1600 Pacific Hwy, Room 260
San Diego, CA 92101-2400

Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814

FROM: City of San Diego
Public Works Department
525 B Street, Suite 750, MS 908A
San Diego, CA 92101

Project Name: Pipeline Rehabilitation AX-1

WBS No.: B-18203.02.06

Project Location-Specific: The project is located within City right-of-way, city easements, and alleyways on and adjacent to the following streets: 51st Street, 54th Street, 57th Street, 60th Street, 66th Street, 69th Street, Alvin Street, Bluebird Street, Brooklyn Avenue, Creston Drive, Derby Street, Eider Street, Elwood Avenue, Federal Boulevard, Geneva Avenue, Gibson Street, Gravity Way, Lenox Drive, Kenwood Street, Klauber Avenue, Madera Street, Mallard Street, McHugh Street, Melrose Place, Mulberry Street, Old Memory Lane, Oriole Street, Paradise Street, Pitta Street, Radio Drive, Republic Street, Roswell Street, Selma Place, Springfield Street, Swan Street, Swaner Street, Tarbox Street, Winnett Street, and Wunderline Avenue. The project is located within the Encanto Neighborhoods Community Planning Area (Council District 4).

Project Location-City/County: San Diego/San Diego

Description of nature and purpose of the Project: This project proposes trenchless rehabilitation of 27,846 linear feet (5.27 miles) of existing 8-inch and 12-inch vitrified clay pipe sewer mains. The project will also include point repairs, rehabilitation of associated sewer laterals, and rehabilitation, replacement, and repair of manholes. The project includes installation of new sewer main cleanouts and sewer lateral cleanouts.

Construction access at Guymon Street and 51st Street, 54th Street, and Federal Boulevard and MacArthur Drive will be limited to hand crews only and will utilize existing sewer access paths. All work within these areas will occur during the dry season (May 1st to September 30th) and will be conducted during the day using hand carried equipment and materials.

Name of Public Agency Approving Project: City of San Diego

Name of Person or Agency Carrying Out Project: Gretchen Eichar, 525 B Street, Suite 750, San Diego, CA 92101, (619) 533-4110

Exempt Status: (CHECK ONE)

- Ministerial (Sec. 21080(b)(1); 15268);
- Declared Emergency (Sec. 21080(b)(3); 15269(a));
- Emergency Project (Sec. 21080(b)(4); 15269 (b)(c))
- Categorical Exemption: Sec. 15301(b) [Existing Facilities], 15302 (c) [Replacement or Reconstruction], and 13504 (f) [Minor Alterations to Land]

Reasons why project is exempt: The City of San Diego conducted an environmental review which determined that the project meets the categorical exemption criteria set forth in CEQA State Guidelines, Section 15301 (b) [Existing Facilities], which allows for the repair and maintenance of existing public structures, involving negligible or no expansion of use; Section 15302 (c) [Replacement and Reconstruction], which allows for the replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site

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and will have substantially the same purpose and capacity as the structure replaced; Section 15304 (f) [Minor Alterations to Land], which allows for minor public alterations in the condition of land including minor trenching and backfilling where the surface is restored; and where the exceptions listed in Section 15300.2 would not apply. All work will occur within previously disturbed soils.

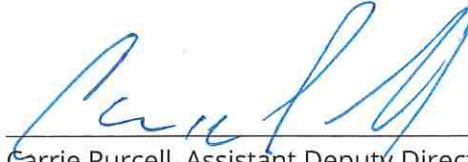
Lead Agency Contact Person: Gretchen Eichar

Telephone: (619) 533-4110

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a notice of exemption been filed by the public agency approving the project? Yes No

It is hereby certified that the City of San Diego has determined the above activity to be exempt from CEQA



Carrie Purcell, Assistant Deputy Director

8/12/19
Date

Check One:

- Signed By Lead Agency
 Signed by Applicant

Date Received for Filing with County Clerk or OPR:

APPENDIX B
FIRE HYDRANT METER PROGRAM

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

1. **PURPOSE**

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

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

Reference

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

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

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

4. **POLICY**

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

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

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

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

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

4.7 Relocation of Existing Fire Hydrant Meters

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

4.8 Disconnection of Fire Hydrant Meter

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

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for removal of the meter.

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

5. **EXCEPTIONS**

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

6. **MOBILE METER**

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

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

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

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

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

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

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

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7. **FEE AND DEPOSIT SCHEDULES**

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

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

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

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

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

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

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

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

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>			

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

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter
Contract Acct #:	Deposit Amount: \$ 936.00 Fees Amount: \$ 62.00
Meter Serial #	Meter Size: 05 Meter Make and Style: 6-7
Backflow #	Backflow Size: Backflow Make and Style:
Name:	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. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D

SAMPLE CITY INVOICE WITH CASH FLOW FORECAST

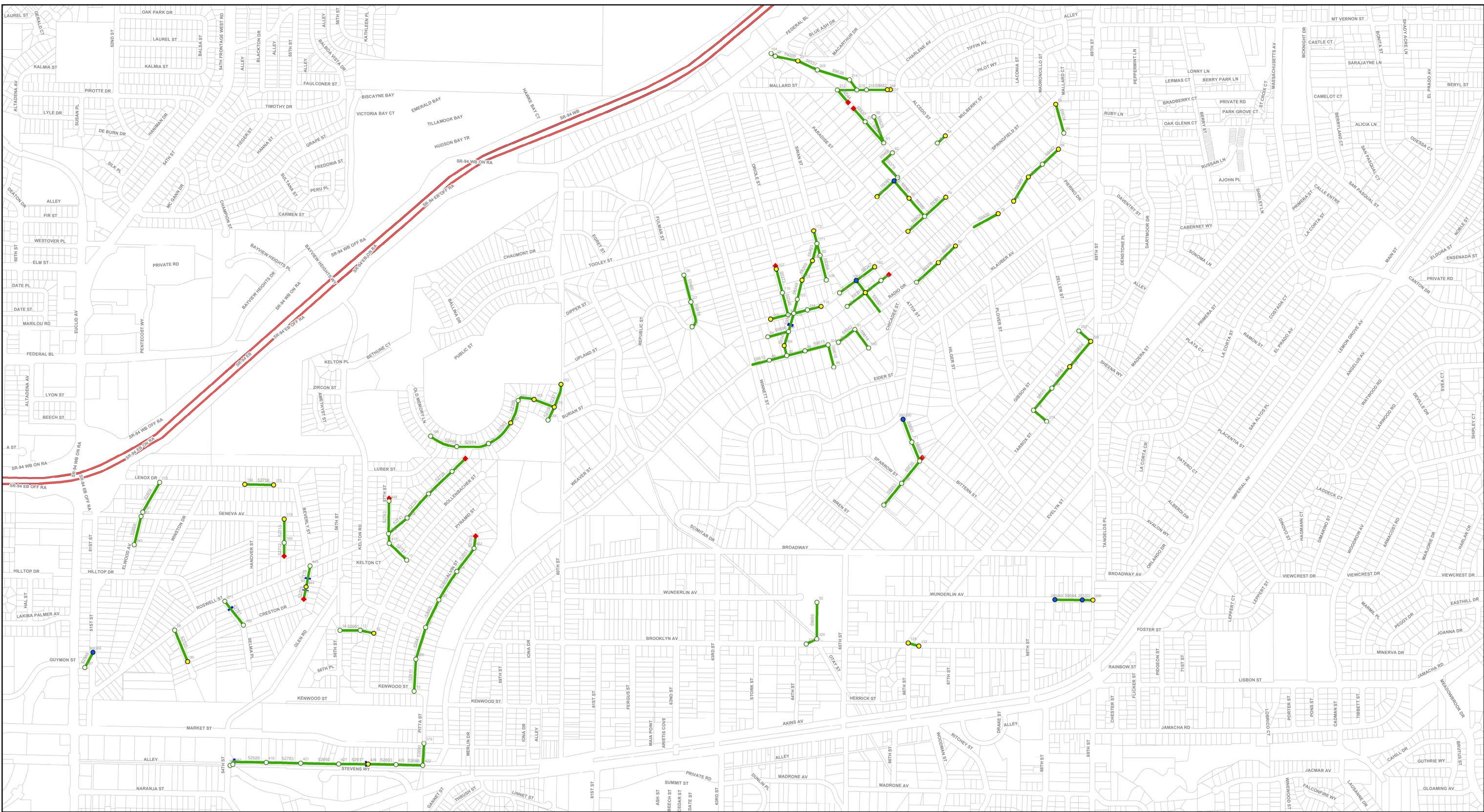
WBS #:	B18108
Date Submitted:	10/10/2018
NTP Date:	3/23/2018
Final Statement of WD Date:	5/23/2020
Contract #:	K-XX-XXXX-XXX-X
Contract Amount:	\$5,617,000

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



Legend

- REHAB MAIN
- POINT REPAIR & REHAB MAIN
- MH REHAB
- MH REPAIR

- ◆ MH REPLACE
- ◆ NEW CLEANOUT (EX. PLUG)
- EX. MH (NO WORK PER PUD)

The City of **SAN DIEGO** Public Works

PIPELINE REHABILITATION AX-1

LOCATION MAP

SENIOR ENGINEER
SHEILA BOSE
619-533-4698

PROJECT MANAGER
JONARD TALAMAYAN
(619) 533-4116

PROJECT ENGINEER
ELIZABETH DUNN
(619) 533-7461



APPENDIX F
ADJACENT PROJECT MAPS

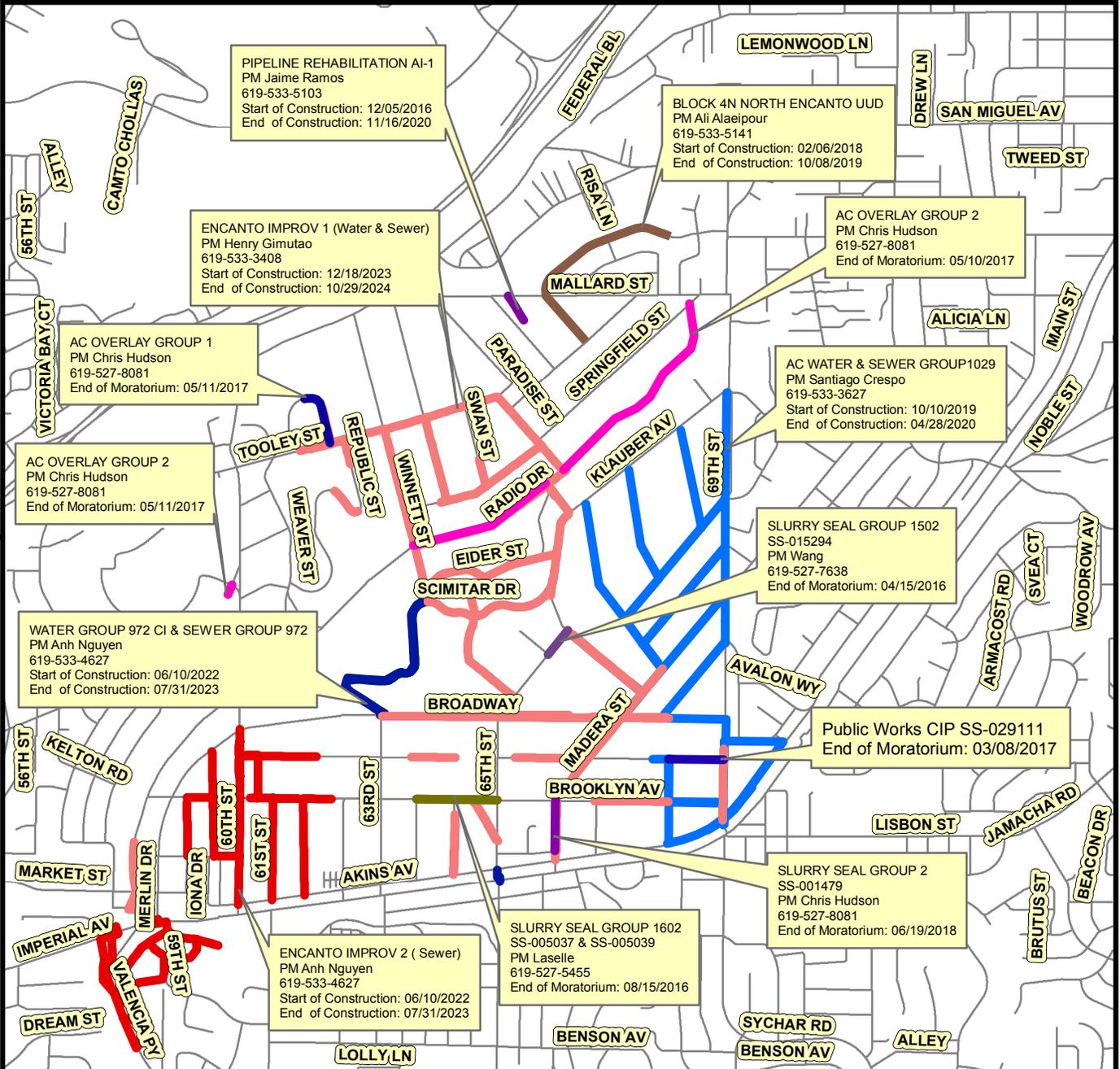
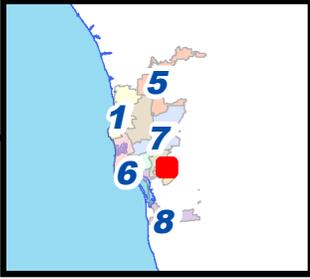
The City of
SAN DIEGO Public Works
PIPELINE REHABILITATION AX-1
ADJACENT PROJECT CONFLICT MAP
MAP 1 OF 2

SENIOR ENGINEER
 SHEILA BOSE
 619-533-4698

PROJECT MANAGER
 JONARD TALAMAYAN
 619-533-4116

PROJECT ENGINEER
 ELIZABETH DUNN
 619-533-7461

FOR QUESTIONS ABOUT THIS PROJECT
 Call: 619-533-4207
 Email: engineering@sandiego.gov



Legend

- Slurry Seal Group 2
- AC Overlay Group 1
- Encanto Improv 2 (Sewer)
- Water Group 972 CI & Sewer Group 972
- AC Water and Sewer Group 1029
- Slurry Seal Group 1602
- AC Overlay Group 2
- Encanto Improv 1 (Sewer & Water)
- Pipeline Rehabilitation AI-1
- Block 4N North Encanto UUD
- Slurry Seal Group 1902 - SS-015294
- Public Work CIP-SS-029111



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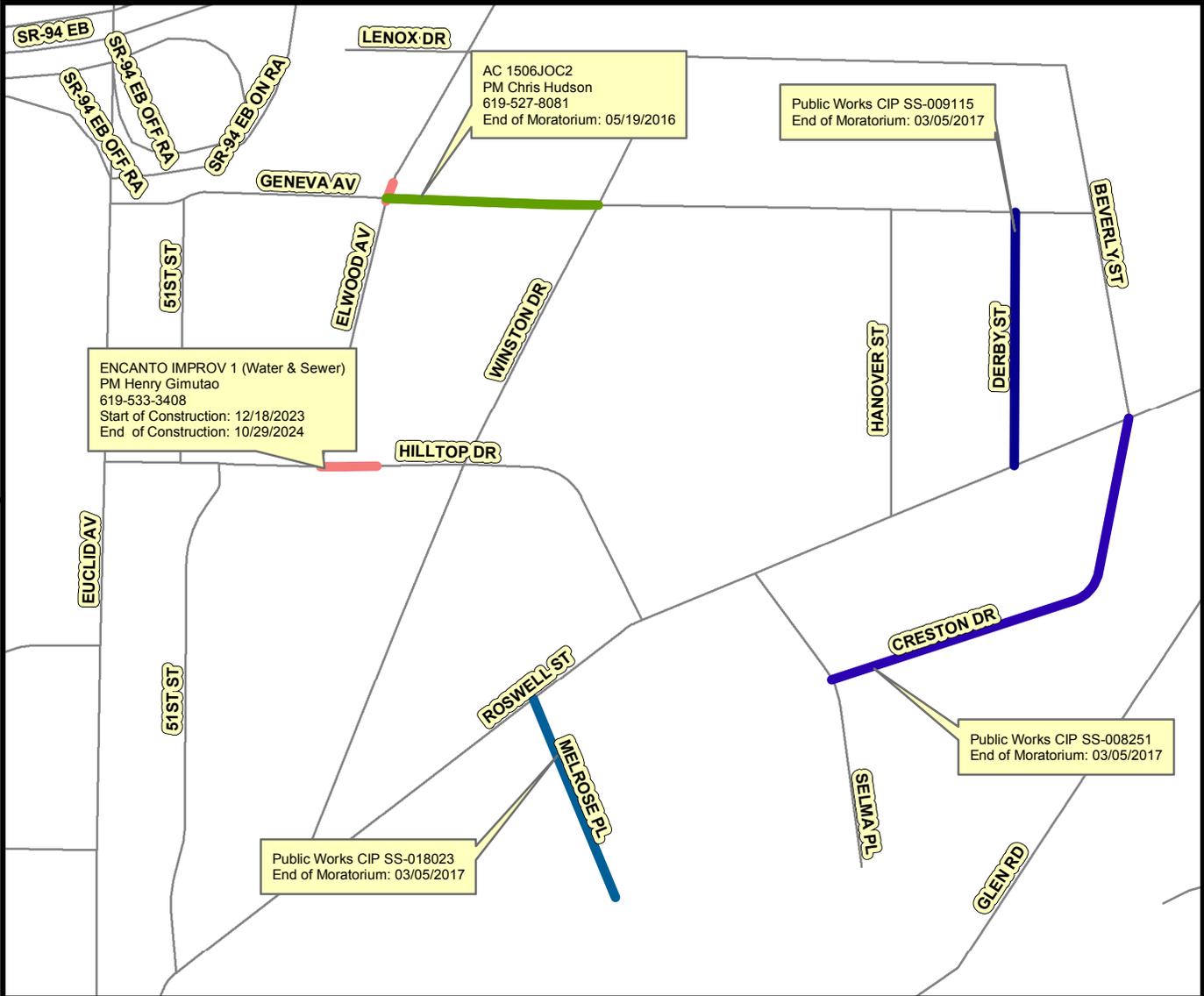
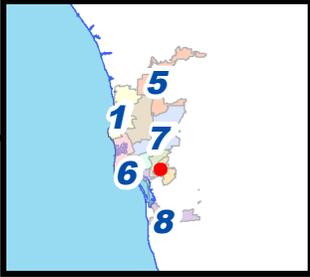
The City of
SAN DIEGO Public Works
PIPELINE REHABILITATION AX-1
ADJACENT PROJECT CONFLICT MAP
MAP 2 OF 2

SENIOR ENGINEER
 SHEILA BOSE
 619-533-4698

PROJECT MANAGER
 JONARD TALAMAYAN
 619-533-4116

PROJECT ENGINEER
 ELIZABETH DUNN
 619-533-7461

FOR QUESTIONS ABOUT THIS PROJECT
 Call: 619-533-4207
 Email: engineering@sandiego.gov



Legend

- Encanto Improv 1 (Sewer & Water)
- Public Work CIP-SS-008251
- Public Work CIP-SS-009115
- Public Work CIP-SS-018023
- AC Overlay 1506- JOC2



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APPENDIX G

CONTRACTOR'S DAILY QUALITY CONTROL INSPECTION REPORT

City of San Diego
Rubber Polymer Modified Slurry
Contractor's Daily Quality Control Inspection Report

Project Title: _____ Date: _____

Ambient Temperature (Start of Work): _____ Time: _____

Environmental Considerations: _____

Locations (Address Range/Cross Streets):

1. _____

2. _____

3. _____

Approved Mix Design: _____

Material Suppliers: _____

RPMS Type(s): _____

Slurry Machine #'s: _____

Estimated Cure Time (Break) of Slurry: _____

Pre-Mix (Per 100 Counts)

Gate Setting/Emulsion %: _____

Aggregate Weight: _____

Cement % (by weight of aggregate): _____

Crumb Rubber % (by volume of cement): _____

Machine Inspection

Leaks: _____

Sprayers: _____

Emulsion Filter: _____

Carbon Black: _____

Spreader Box Inspection

Cleanliness: _____

Augers: _____

Rubbers: _____

Fabric: _____

Runners: _____

City of San Diego
Rubber Polymer Modified Slurry
Contractor's Daily Quality Control Inspection Report

Project Conditions

Crack Fill: _____

Asphalt Deficiencies: _____

Cleanliness: _____

Impediments/Other: _____

Communication to Client/ Resident Engineer

Crack Fill: _____

Asphalt Deficiencies: _____

Cleanliness: _____

Impediments/Other: _____

Test Lab

Tech: _____ Time on Site: _____

Notes

QCP Administrator Signature:

Date Signed:

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
SITE MAPS

PIPELINE REHABILITATION AX-1

WORK TO BE DONE

CONSTRUCTION CONSISTS OF TRENCHLESS REHABILITATION 27846 LF (5.27 MILES) OF EXISTING 8-INCH & 12-INCH VITRIFIED CLAY PIPE (VCP) SEWER MAINS. THE PROJECT INCLUDES APPROXIMATELY 6 POINT REPAIRS, REHABILITATION OF ALL ASSOCIATED SEWER LATERALS FROM THE SEWER MAIN TO THE PROPERTY LINE, REHABILITATION OF 40 MANHOLES, REPLACEMENT OF 6 MANHOLES, REPAIR OF 6 MANHOLES, INSTATION OF 10 NEW MAIN LINES CLEANOUTS AND INSTALLATION OF SEWER LATERAL CLEANOUTS. RELATED WORK INCLUDES STREET RESURFACING.

CONTRACTOR'S RESPONSIBILITIES

1. PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
2. NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES (I.E. 69 KV & HIGHER)
3. LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
4. STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
5. UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILBLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FILED IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 5-UTILITIES.

CONSTRUCTION STORM WATER PROTECTION NOTES

1. TOTAL SITE DISTURBANCE AREA (ACRES): 0.04 ACRES
HYDROLOGIC UNIT/WATERSHED: PUEBLO SAN DIEGO/ SAN DIEGO BAY
HYDROLOGIC SUBAREA NAME & NO. : CHOLLAS ; 908.22

2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE

WPCP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001AS AMENDED BY R9-2015-0001AND R9-2015-0100

SWPPP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001AS AMENDED BY R9-2015-0001AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ AS AMENDED BY ORDER 2010-0014-DWQ AND 2012-0006-DWQ

TRADITIONAL: RISK LEVEL 1 2 3

LUP: RISK TYPE 1 2 3

3. CONSTRUCTION SITE PRIORITY

ASBS HIGH MEDIUM LOW

MONUMENTATION/SURVEY NOTES

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 LOCATION 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

MTS STANDARD CONSTRUCTION NOTES

1. A Right of Entry (ROE) Permit is necessary when entering MTS / San Diego and Arizona Eastern (SD&AE) right-of-way (MTS R/W), including airspace, for any purpose. A ROE Permit is also required when working in public right-of-way occupied by MTS / SD&AE facilities. Information to apply for ROE can be obtained from MTS's website at: <http://www.sdmts.com/Business/Permits.asp> or contact MTS Right of Way Services at Tel. (619) 557-4501. Applicant/Contractor is referred to as the "Permittee".
2. Certificate of Insurance from your insurance company for General Liability, Automobile Liability, Pollution Liability (if applicable), Professional Liability (if applicable), and Workman's Compensation must be submitted and approved by MTS before the permit will be processed. Full Insurance Requirement guidelines can be accessed from the MTS website noted above.
3. Most general liability insurance policies do not cover railroads. Any exclusions relating to performance of operations within the vicinity of any railroad, bridge, trestle, track, roadbed, tunnel, underpass, or crossing must be deleted from all policies by endorsement. Additionally, a separate Railroad Protective Liability Policy will most likely be required after project review as deemed necessary by MTS.
4. All personnel performing work on MTS R/W, or entering MTS R/W shall require proper MTS Rail Safety Training Certification prior to entering MTS R/W. Any contractors or subcontractors performing work on behalf of Permittee, shall be deemed as agents of Permittee and shall require said Training as well. For Training information, email rwst@sdmts.com. Training Certification is valid for one year and is confined to MTS/SD&AE facilities only.
5. Permittee shall provide MTS with an approved set of Traffic Control Plans that conform to the Manual on Uniform Traffic Control Devices (MUTCD) and comply in particular with Part 8 "Traffic Control for Railroad and Light Rail Transit Grade Crossings".
6. If project involves casing sleeves under Railroad tracks and across MTS R/W, Permittee shall adhere to MTS Jack and Bore Design Criteria and Construction Notes.
7. A pre-construction meeting will be required with MTS/SDTI prior to work commencing within MTS R/W. A written notice of planned start of work must be submitted to MTS a minimum of five (5) business days prior to work starting in MTS R/W. All work will be stopped and Permittee will not be allowed in MTS R/W without proper notification.
8. Permittee's on-site supervision shall retain/maintain a fully executed copy of the Right of Entry Permit at all times while on MTS R/W.
9. SDTI rail flagging will be required anytime work is within fifteen (15) feet of any operable track including airspace or as deemed necessary by MTS. A SDTI Flagperson / Right-of-Way Work Request form must be submitted to SDTI a minimum of three (3) business days prior to anticipated work. Forms are attached to the ROE Permit or can be requested through MTS Right of Way Services.
10. A SDTI traction power shutdown may be necessary for the work zone to protect and maintain the required ten (10) foot clearance from trolley overhead high voltage catenary system (OCS). Permittee shall submit a SDTI Red Tag/ Traction Power Removal Request form to SDTI at least three (3) business days prior to the start of work. Power shutdowns shall only be allowed during

non-operating Trolley hours. Forms are attached to the ROE Permit or can be requested through MTS Right of Way Services.

11. Permittee shall contact and schedule Dig-Alert and Cable Pipe and Leak (“CPL”) prior to any excavation in MTS R/W. Permittee shall notify MTS a minimum of three (3) business days prior to the scheduled utility markout request and shall submit a SDTI Flagperson / Right-of-Way Work Request form. SDTI personnel shall accompany CPL for any markout of Trolley facilities.
12. Permittee shall adhere to construction and safety standards required by MTS of their contractors when working within MTS R/W.
13. Permittee shall perform all work in accordance with applicable California Public Utilities Commission (CPUC) and California Occupational Safety and Health Administration (Cal-OSHA) regulations, MTS LRT Design Criteria, American Railway Engineering and Maintenance of Way Association (AREMA) standard specifications, Manual on Uniform Traffic Control Devices (MUTCD) guidelines and MTS, SDTI and SD&IV Operations and safety policies.
14. Permittee agrees that no work by himself or his authorized agent will interfere with railroad/trolley operations.
15. Permittee agrees to coordinate on a daily basis a reasonable access to all MTS/SD&AE facilities with contract operators, SDTI, and SD&IV. SDTI trolley operations are generally from the hours of 4:00 a.m. to 2:00 a.m. the following day. SD&IV freight trains normal operations are during non-Trolley hours.
16. Permittee shall maintain safe pedestrian access to all trolley platforms and bus stops at all times. A minimum five (5) foot wide accessible pedestrian path through the construction site shall be maintained at all times. The construction boundary shall consist of a top and bottom rail constructed of plastic pipe, OSHA plastic mesh, or approved equal. Yellow caution tape is not acceptable.
17. Permittee shall not store equipment, tools, and materials within fifteen (15) feet from trolley operable track and within twenty-five (25) feet from freight track operations.
18. Permittee shall not use or store hazardous substances, as defined by the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (“CERCLA”) or petroleum or oil as defined by applicable Environmental Laws on MTS R/W.
19. No vehicular crossing over tracks shall be installed or used by Permittee without prior written permission of Railroad.
20. A written notice shall be submitted to MTS one (1) business day after work is completed within MTS R/W. Any additional work required to replace or repair the railroad facilities in good working order will be the Permittee’s responsibility prior to relief from maintenance within the Permit area.
21. Permittee shall remove all of Permittee’s tools, equipment, and materials from railroad premises promptly upon completion of work and shall restore all facilities, improvements, landscaping, etc., to their original condition or as shown on project work site plans.

MTS/SDA&E EXCAVATION SUPPORT SYSTEMS REQUIREMENTS

A-1 GENERAL

This Section specifies procedures, performance criteria and requirements for providing safe and stable excavations throughout construction. Provide temporary sheeting, shoring and bracing systems as required by the Work. Meet all codes, regulations, and requirements of agencies having jurisdiction over this Work. Obtain all required Federal OSHA, Cal/ OSHA and local jurisdiction permits.

Work under this Section, shall include but shall not be limited to:

- A. Design of the temporary support systems
- B. Construction of temporary sheeting, shoring, and bracing systems
- C. Employing acceptable side slope layback methods for excavations
- D. Maintenance of bracing systems and removal
- E. All associated design Work

A-2 SUBMITTALS

General Excavation Support Procedure: Submit an outline of intended excavation support systems and associated installation and removal procedures as required for the Work. This submittal is for the Engineer's general information and in no way relieves the Contractor of complete responsibility for the successful performance of his intended excavation methods.

Sheeting and/or Shoring Drawings: Required for sheeting, shoring and other excavation support systems, and conforming to the following requirements:

- 1. Drawings shall be prepared, signed and sealed by a Professional Engineer licensed to practice in the State of California.
- 2. Include plan views indicating the extents of all proposed shoring relative to the nearest track centerline.
- 3. Include cross-sections of all proposed shoring.
- 4. Include cross-sections cut perpendicular to the track; indicate the track location relative to the support system and use equal horizontal and vertical scales.
- 5. Vertical dimensions shall be relative to top of rail and horizontal elevations shall be relative to the nearest track centerline.
- 6. Drawings shall also indicate details of all structural members, connection details, and embedment depths.
- 7. Indicate construction access locations.

Design Calculations: Required for sheeting, shoring and other excavation support systems; prepared, signed, and sealed by a Professional Engineer licensed to practice in the State of California.

A-3 DESIGN CRITERIA

Design the excavation support in accordance with AASHTO and AREMA requirements, to support all loads including: earth pressures, AASHTO HS20 traffic loading, AREMA Cooper E-80 Railroad Loading, utility loads, loads from adjacent structures, ground water pressure, and equipment and construction loads. No increases in allowable stresses or reductions of safety factors shall be allowed.

The excavation support shall allow safe and expeditious construction of the permanent structure without movement or settlement of adjacent buildings, structures, utilities, or track work.

Excavations and shoring systems shall be such that AREMA Cooper E-80 Loading can be accommodated at all times during the shoring construction. Shoring construction shall be performed without affecting railroad operations unless otherwise approved in advance by the Engineer.

Temporary sheeting and shoring for support of adjacent tracks during construction shall not be closer than 8'-6" from the nearest track centerline (refer to CPUC G026-D and 118).

Excavation and Shoring requirements within the Sheet Piling Zone: The Sheet Piling Zone shall be defined as the area between the following boundaries:

A vertical line offset 8'-6" from the nearest track centerline

A 1:1 projection beginning at a point located 8'-6" from the nearest track centerline and 2 feet below top of rail of the nearest track. Said 1:1 projection shall slope down and away from the nearest track.

Un-shored excavations within the Sheet Piling Zone shall not be allowed. Shoring within the Sheet Piling Zone shall be of a type where the shoring is installed in place prior to any excavation being performed, and where the excavation can be made with no possibility of disturbance or loss of soil material retained between the shoring and the track. Common shoring types fulfilling this requirement are interlocking-edge sheet piling, tongue and groove edge precast concrete sheet piling, which are driven or vibrated in position prior to starting any excavation. Unless otherwise indicated in the Project Specific Specifications, on the plans, or as approved by the Engineer, shoring within the Sheet Piling Zone shall be abandoned in place, except for the top 2 feet, which shall be removed, and backfilled in accordance with these specifications. Shoring types using lagging elements, which are placed as excavation proceeds, are not permitted within the Sheet Piling Zone. Shoring within the Sheet Piling Zone shall be designed for AREMA Cooper E-80 Loading.

Excavation and Shoring requirements within the Shoring Zone: The Shoring Zone shall be defined as the area between the following boundaries:

A 1:1 projection beginning at a point located 8'-6" from the nearest track centerline and 2 feet below top of rail of the nearest track. Said 1:1 projection shall slope down and away from the nearest track.

A 1.5:1 projection beginning at a point located 11'-0" from the nearest track centerline and 2 feet below top of rail of the nearest track. Said 1.5:1 projection shall slope down and away from the nearest track.

Un-shored excavations within the Shoring Zone shall not be allowed. Shoring types using lagging elements, which are placed, as excavation proceeds are allowable within the Shoring Zone. Shoring within the Shoring Zone shall be designed for AREMA Cooper E-80 Loading.

Excavation and Shoring requirements within the Excavation Zone: The Excavation Zone shall be defined as the area that is located beyond (i.e. in a direction away from the nearest track) the following boundary:

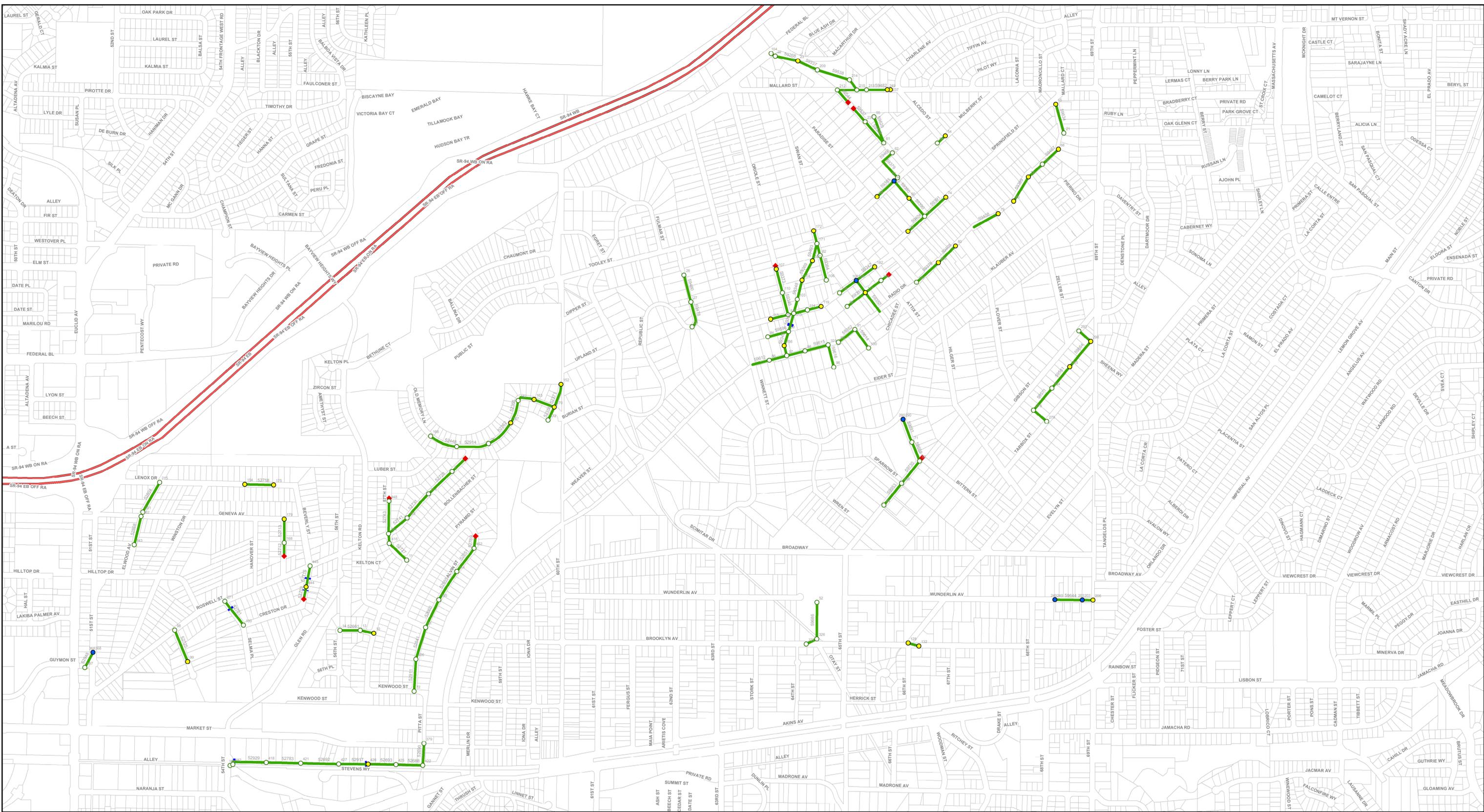
A 1.5:1 projection beginning at a point located 11'-0" from the nearest track centerline and 2 feet below top of rail of the nearest track. Said 1.5:1 projection shall slope down and away from the nearest track.

Sloping cuts are allowed within the Excavation Zone. Excavations and shoring within the Excavation Zone are not required to be designed for railroad live loading.

Provide handrails in accordance with Cal-OSHA and CPUC General Order 26-D.

Tiebacks or any other excavation support mechanisms that are installed under the track structure shall be at least 24 inches clear below top of rail.

LOCATION MAP



Legend

- REHAB MAIN
- POINT REPAIR & REHAB MAIN
- MH REHAB
- MH REPAIR
- ◆ MH REPLACE
- ◆ NEW CLEANOUT (EX. PLUG)
- EX. MH (NO WORK PER PUD)

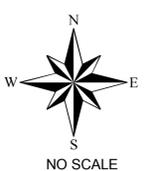
The City of
SAN DIEGO Public Works

PIPELINE REHABILITATION AX-1

LOCATION MAP

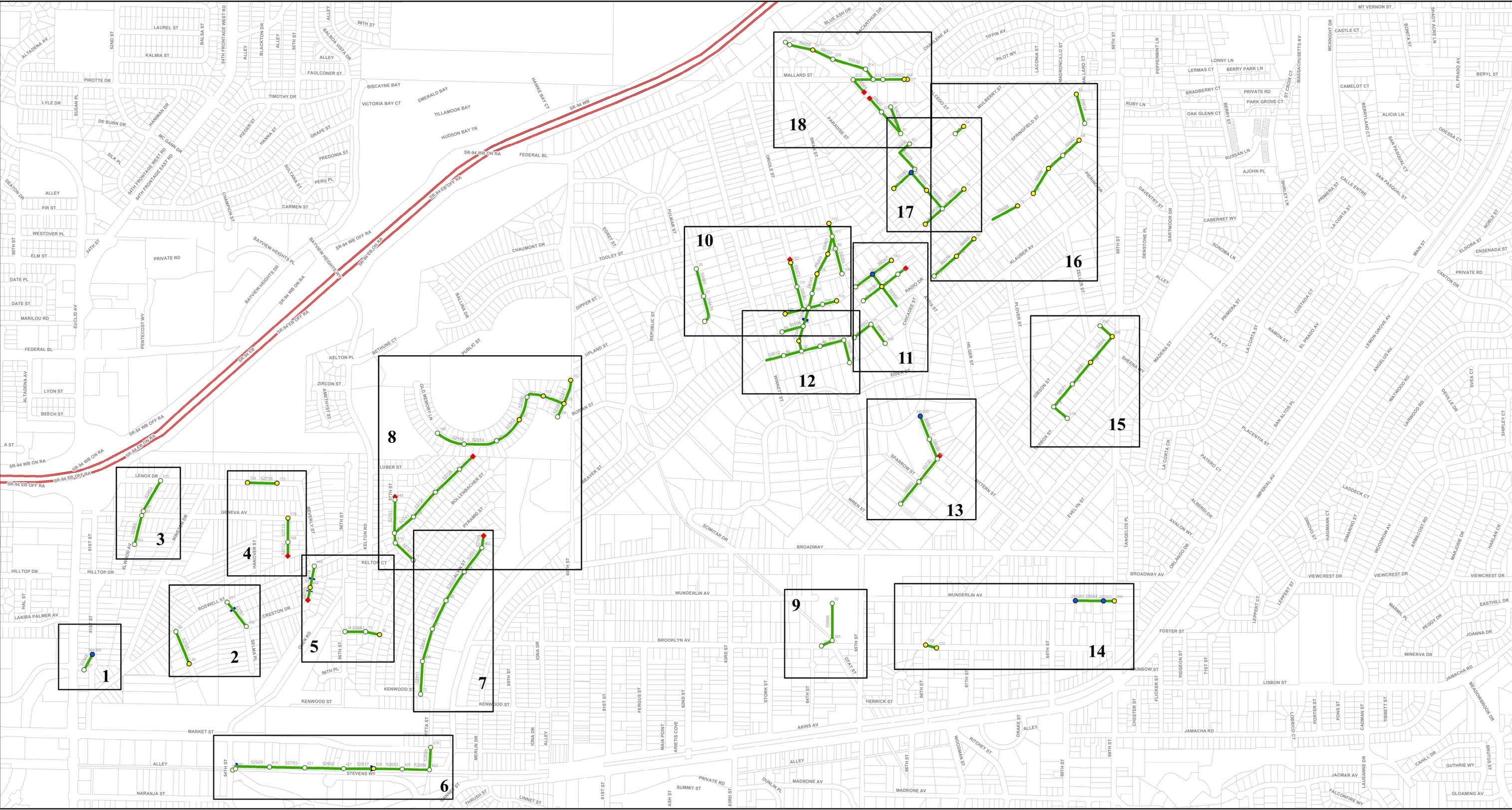
SENIOR ENGINEER SHEILA BOSE 619-533-4698	PROJECT MANAGER JONARD TALAMAYAN (619) 533-4116	PROJECT ENGINEER ELIZABETH DUNN (619) 533-7461
--	---	--

COUNCIL DISTRICT: 4



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KEY MAP



Legend

- REHAB MAIN
- POINT REPAIR & REHAB MAIN
- MH REHAB
- MH REPAIR
- MH REPLACE
- ◆ NEW CLEANOUT (EX. PLUG)
- EX. MH (NO WORK PER PUD)

The City of **SAN DIEGO** Public Works

PIPELINE REHABILITATION AX-1

SENIOR ENGINEER SHEILA BOSE 619-533-4698
 PROJECT MANAGER JONARD TALAMAYAN (619) 533-4116
 PROJECT ENGINEER ELIZABETH DUNN (619) 533-7461

KEY MAP



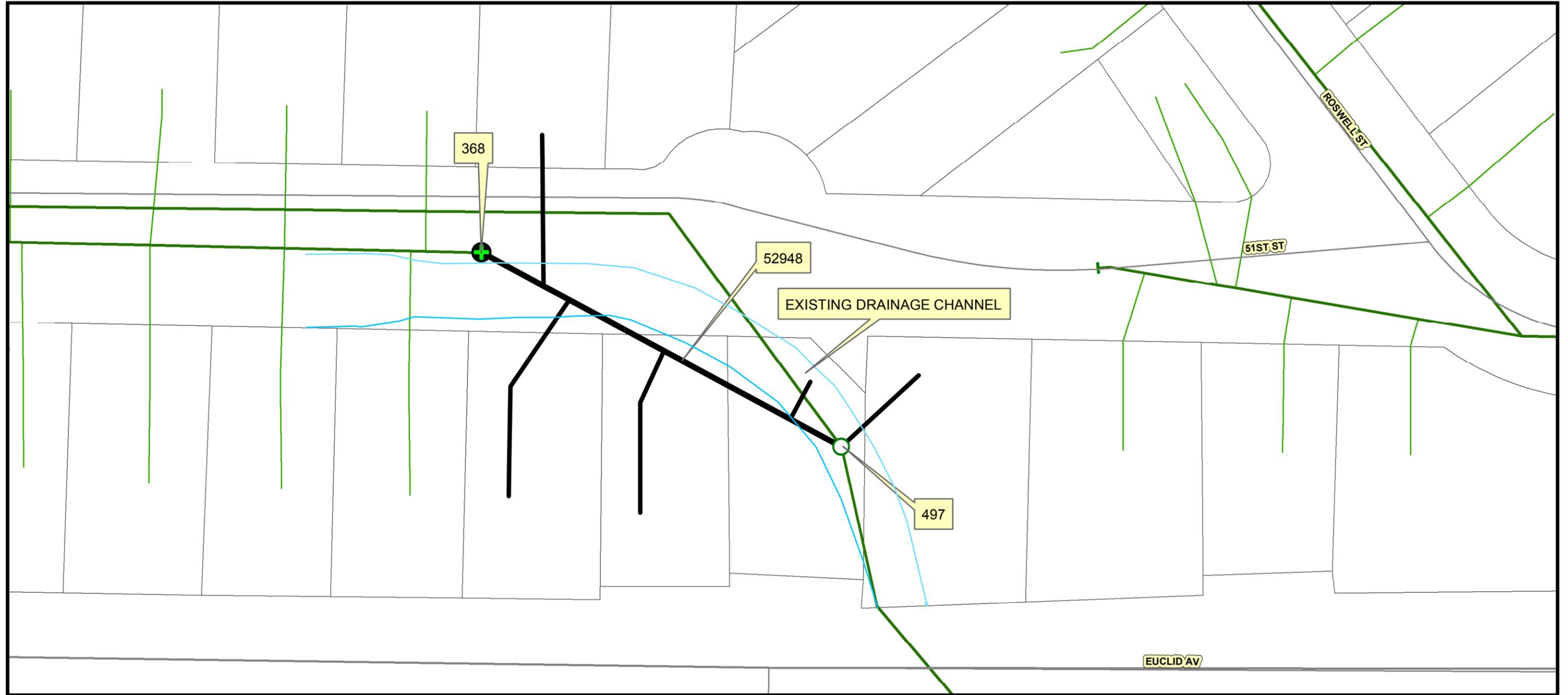
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GIS SITE MAPS

NOTE:
 MANHOLE 497 SHALL BE ACCESSED ON FOOT DURING DRY SEASON AND/OR FROM THE EXISTING PAVED RIGHT-OF-WAY.
 NO IMPACTS TO THE DRAINAGE CHANNEL OR REMOVAL OF VEGETATION IS AUTHORIZED.

SEE MAP 3

SEE MAP 2



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Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER
12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1



WBS#
 B-18203

MAP NO.
 1 of 18
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Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER

12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1



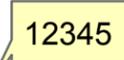
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SEE MAP 2

Legend

-  Proposed Pipeline Rehabilitation
-  Proposed Pipeline Rehabilitation w/ Point Repair
-  Proposed MH Rehabilitation
-  Proposed MH Rehabilitation w/ Point Repair
-  Proposed MH Replacement
-  Proposed Lateral Rehabilitation
-  Proposed Cleanouts
-  Existing Manhole
-  Plugs
-  Mains
-  Laterals

123 MANHOLE ID NUMBER
 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1



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SEE MAP 8

SEE MAP 5

Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation

- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER

12345

 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1

The City of
SAN DIEGO Public Works

NOT TO SCALE

WBS#
B-18203

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Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed MH Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

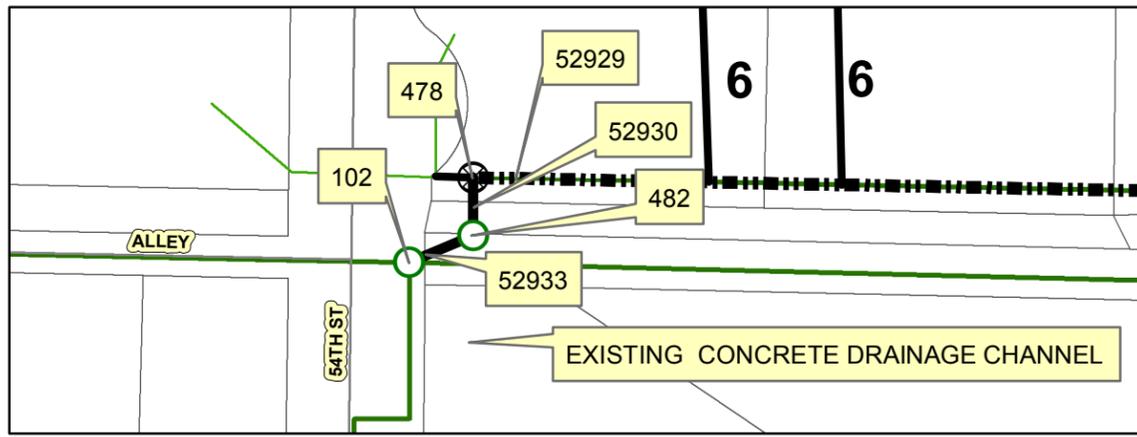
123 MANHOLE ID NUMBER
 12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1



NOTES:

MANHOLE 102 SHALL BE ACCESSED ON FOOT DURING THE DRY SEASON AND/OR FROM THE EXISTING PAVED RIGHT-OF-WAY. NO IMPACTS TO THE DRAINAGE CHANNEL OR REMOVAL OF VEGETATION IS AUTHORIZED.



DETAIL A

SEE MAP 7



Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- ⊕ Proposed MH Rehabilitation w/ Point Repair
- ⊗ Proposed MH Replacement
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER

12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1

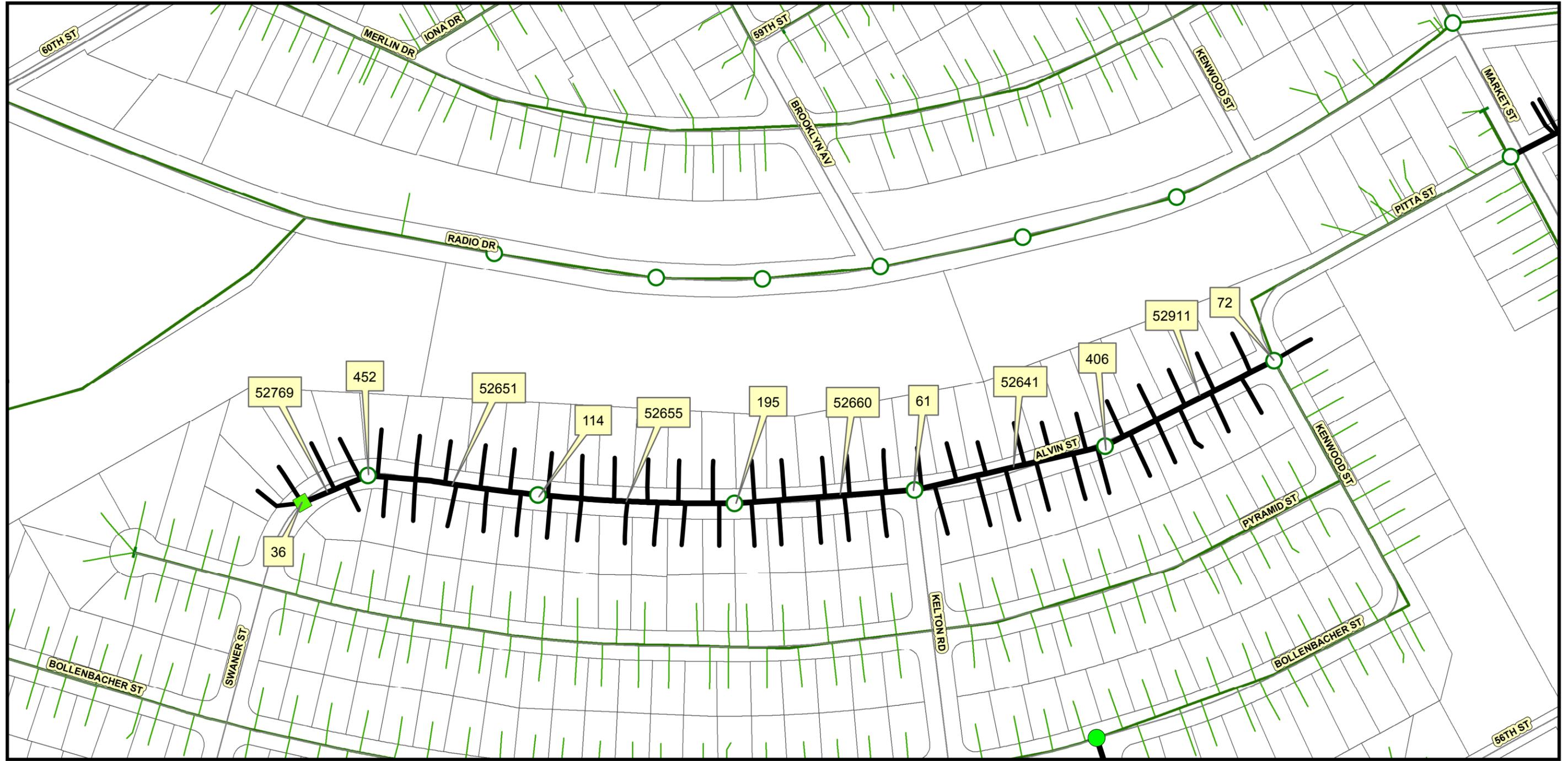
Proposed Lateral Rehabilitation
Pipeline Rehabilitation AX-1 Appendix H - Site Maps



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SEE MAP 8



SEE MAP 6

SEE MAP 5

Legend

	Proposed Pipeline Rehabilitation		Proposed Cleanouts	123	MANHOLE ID NUMBER	PIPELINE REHABILITATION AX-1
	Proposed Pipeline Rehabilitation w/ Point Repair		Existing Manhole		FSN (Facility Sequence Number)	
	Proposed MH Rehabilitation		Plugs			
	Proposed MH Rehabilitation w/ Point Repair		Mains			
	Proposed MH Replacement		Laterals			
	Proposed Lateral Rehabilitation					

Pipeline Rehabilitation AX-1 Appendix H - Site Maps

The City of
SAN DIEGO Public Works

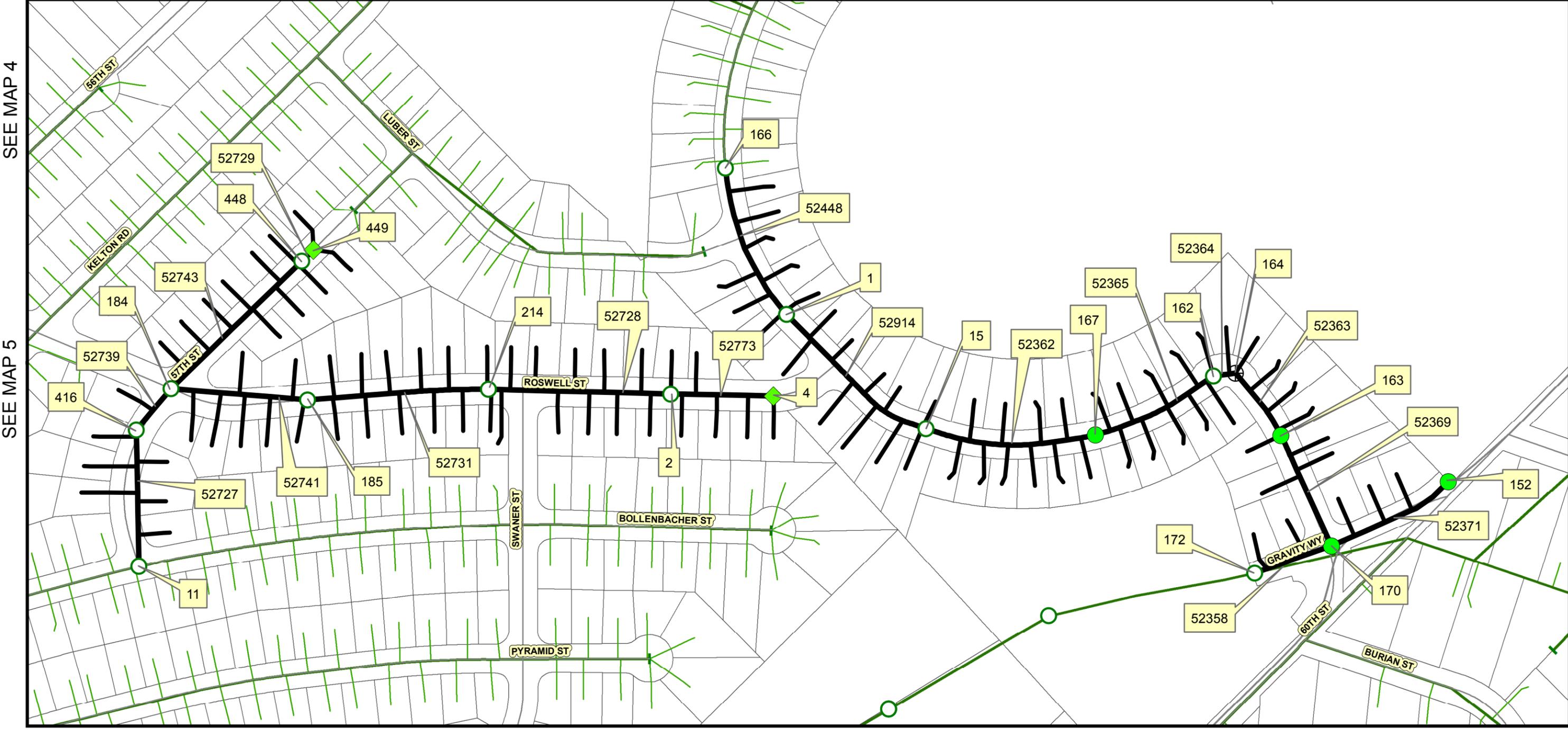
NOT TO SCALE

WBS#
B-18203

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SEE MAP 7

Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER

12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1

NOT TO SCALE

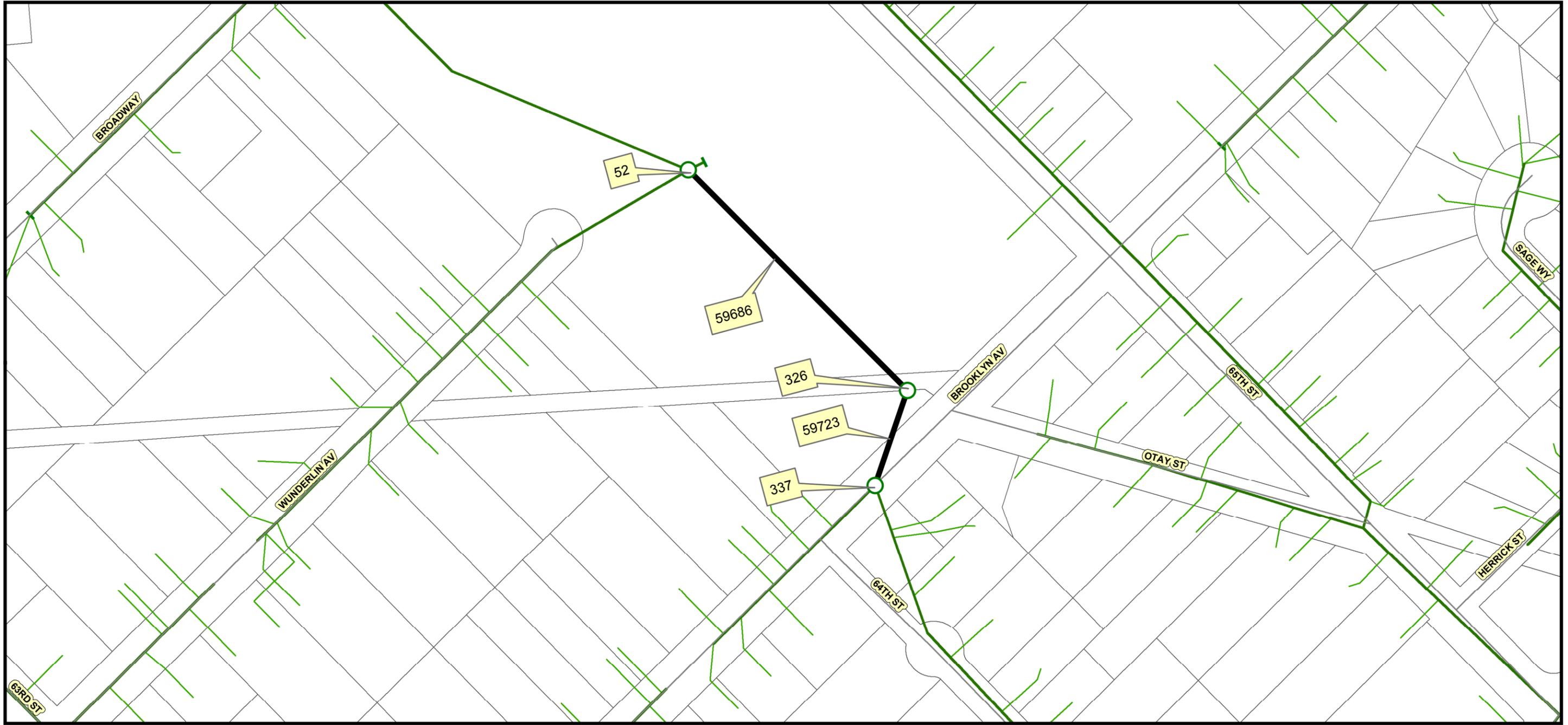
WBS#
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SEE MAP12

SEE MAP13



SEE MAP 14

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Legend		123 MANHOLE ID NUMBER		PIPELINE REHABILITATION AX-1	
<ul style="list-style-type: none"> Proposed Pipeline Rehabilitation Proposed Pipeline Rehabilitation w/ Point Repair Proposed MH Rehabilitation Proposed MH Rehabilitation w/ Point Repair Proposed MH Replacement Proposed Lateral Rehabilitation 	<ul style="list-style-type: none"> Proposed Cleanouts Existing Manhole Plugs Mains Laterals 	12345 FSN (Facility Sequence Number)	NOT TO SCALE		

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SEE MAP 12

SEE MAP 11

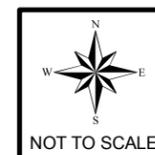
Legend

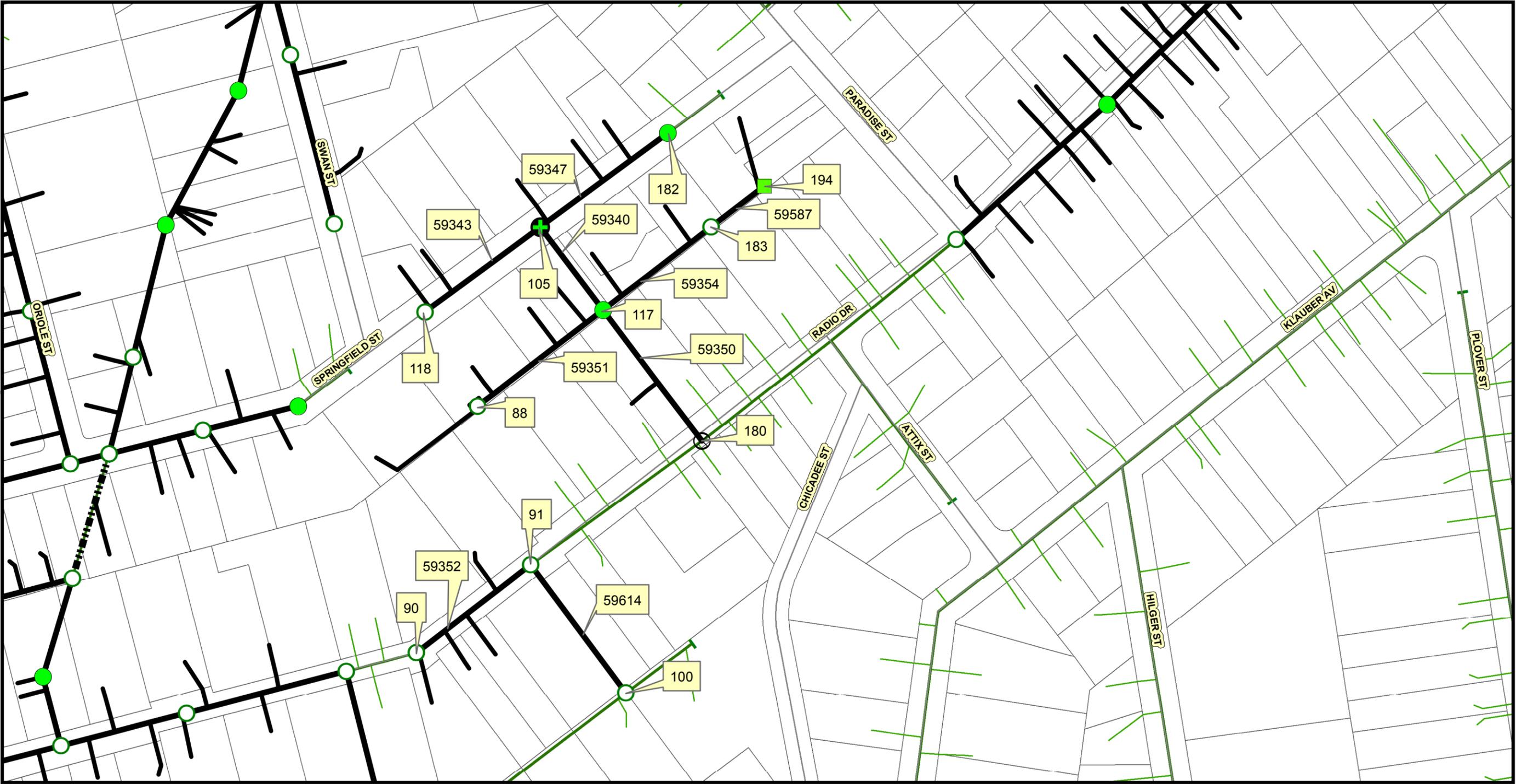
- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER

12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1





SEE MAP 10

SEE MAP 12

SEE MAP 13

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Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER
 12345 FSN (Facility Sequence Number)

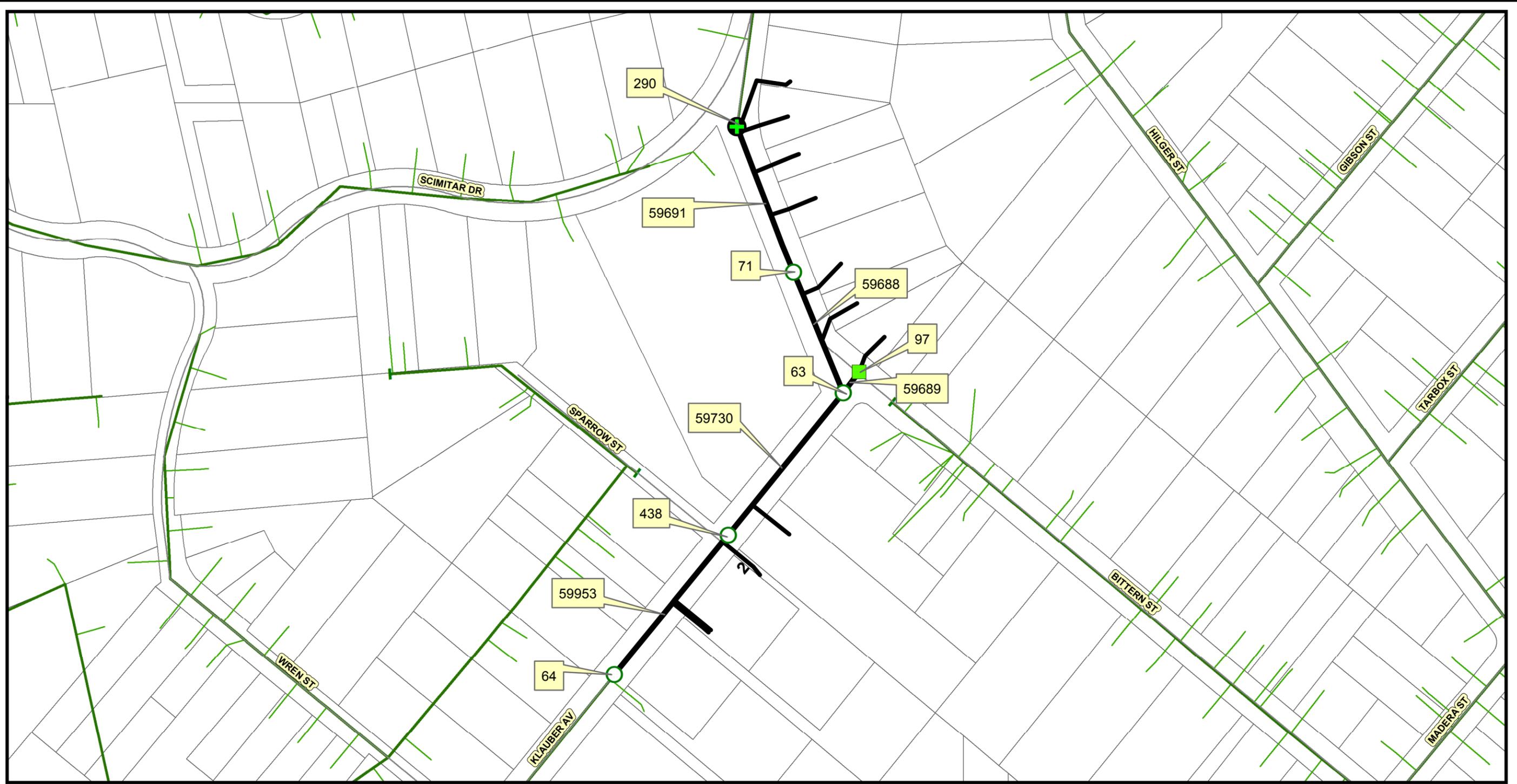
PIPELINE REHABILITATION AX-1



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SEE MAP 11
SEE MAP 12



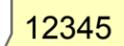
SEE MAP 15

SEE MAP 14

Legend

-  Proposed Pipeline Rehabilitation
-  Proposed Pipeline Rehabilitation w/ Point Repair
-  Proposed MH Rehabilitation
-  Proposed MH Rehabilitation w/ Point Repair
-  Proposed MH Replacement
-  Proposed Lateral Rehabilitation
-  Proposed Cleanouts
-  Existing Manhole
-  Plugs
-  Mains
-  Laterals

123 MANHOLE ID NUMBER

 12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1

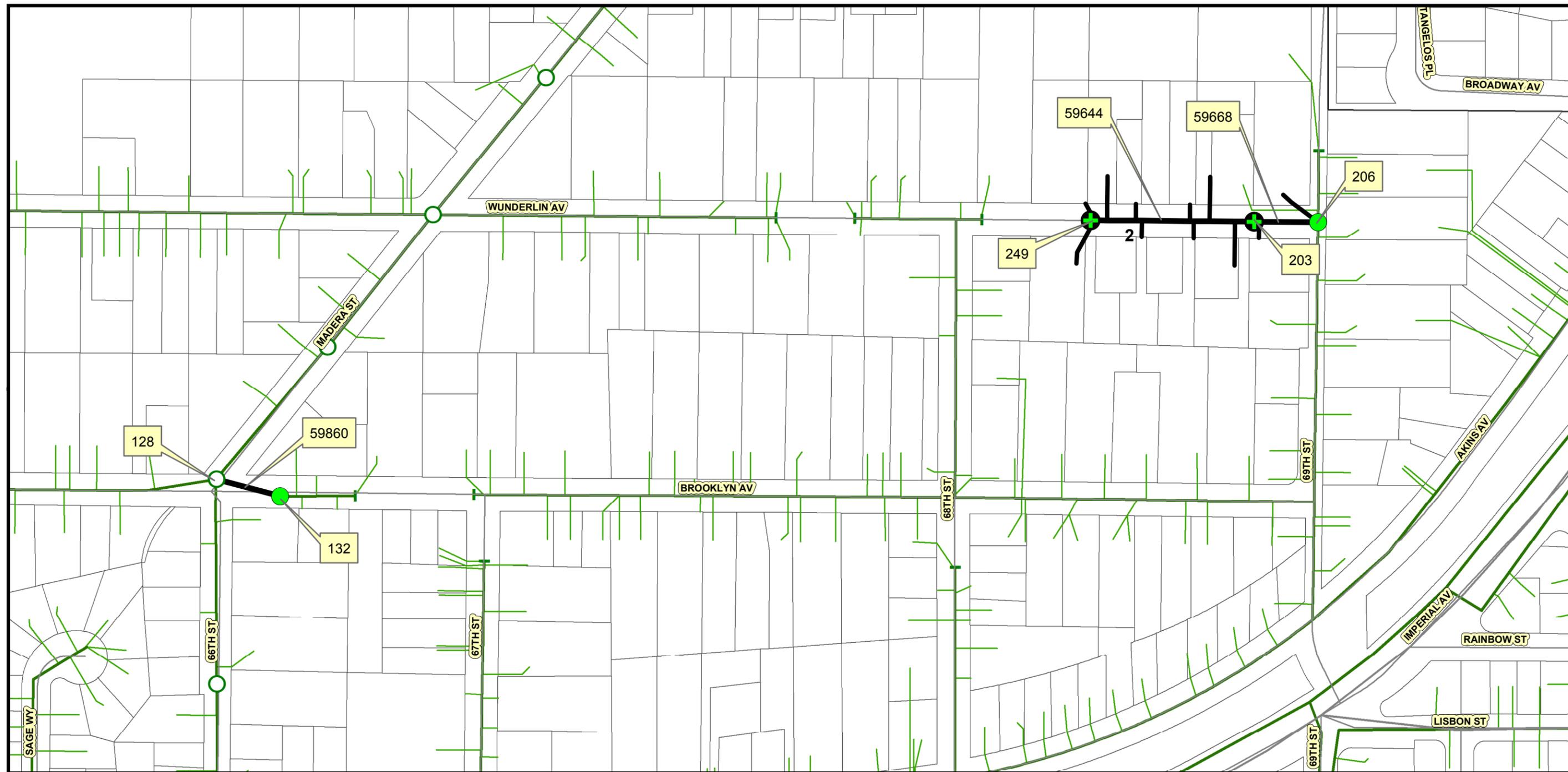
The City of **SAN DIEGO** Public Works



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SEE MAP 9

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Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation w/ Point Repair
- Existing Manhole
- Proposed MH Rehabilitation
- Proposed MH Replacement
- Mains
- Laterals
- Proposed Cleanouts
- Plugs
- Proposed Lateral Rehabilitation

123 MANHOLE ID NUMBER

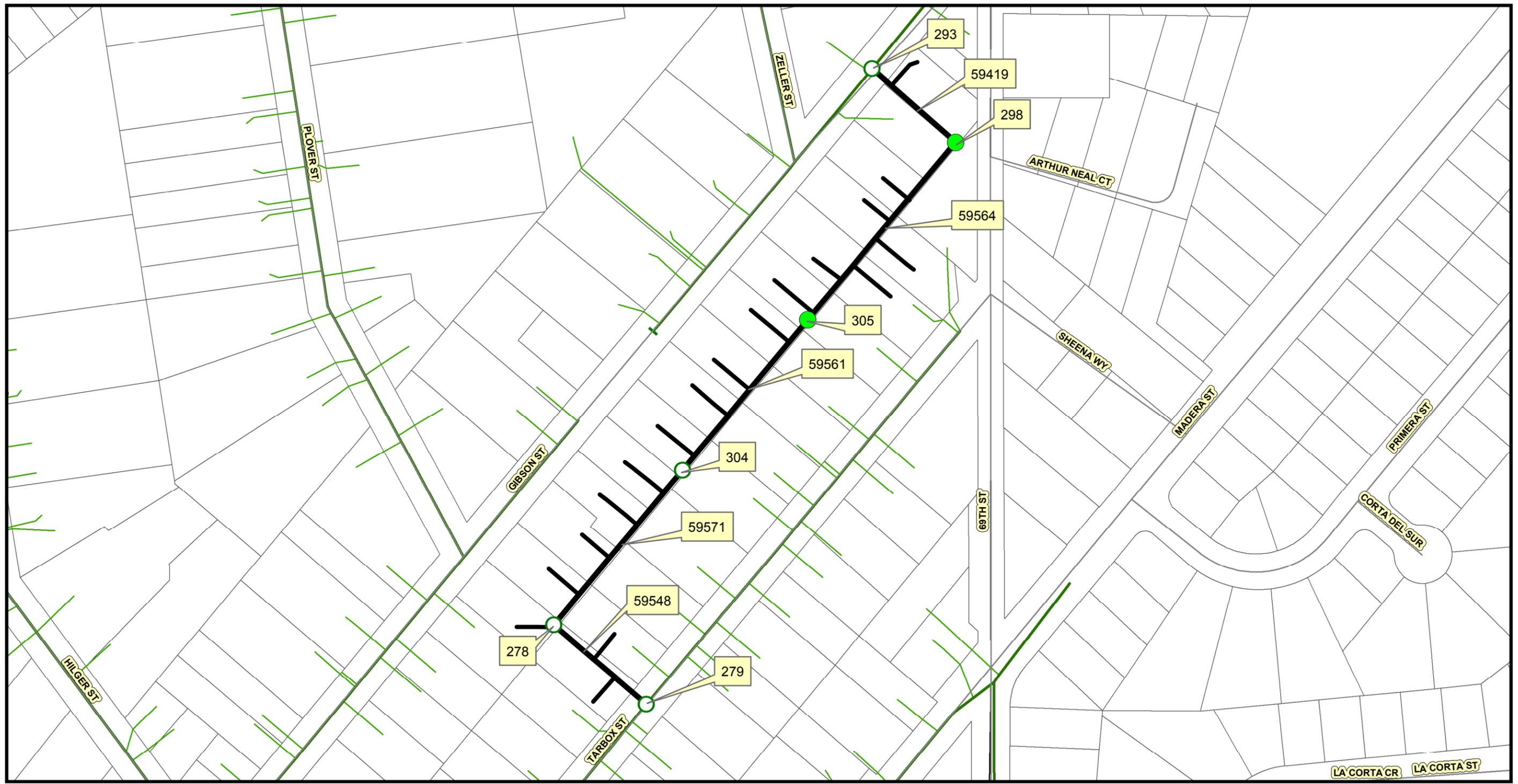
12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1



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SEE MAP 13

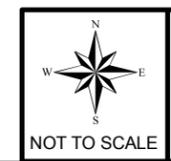


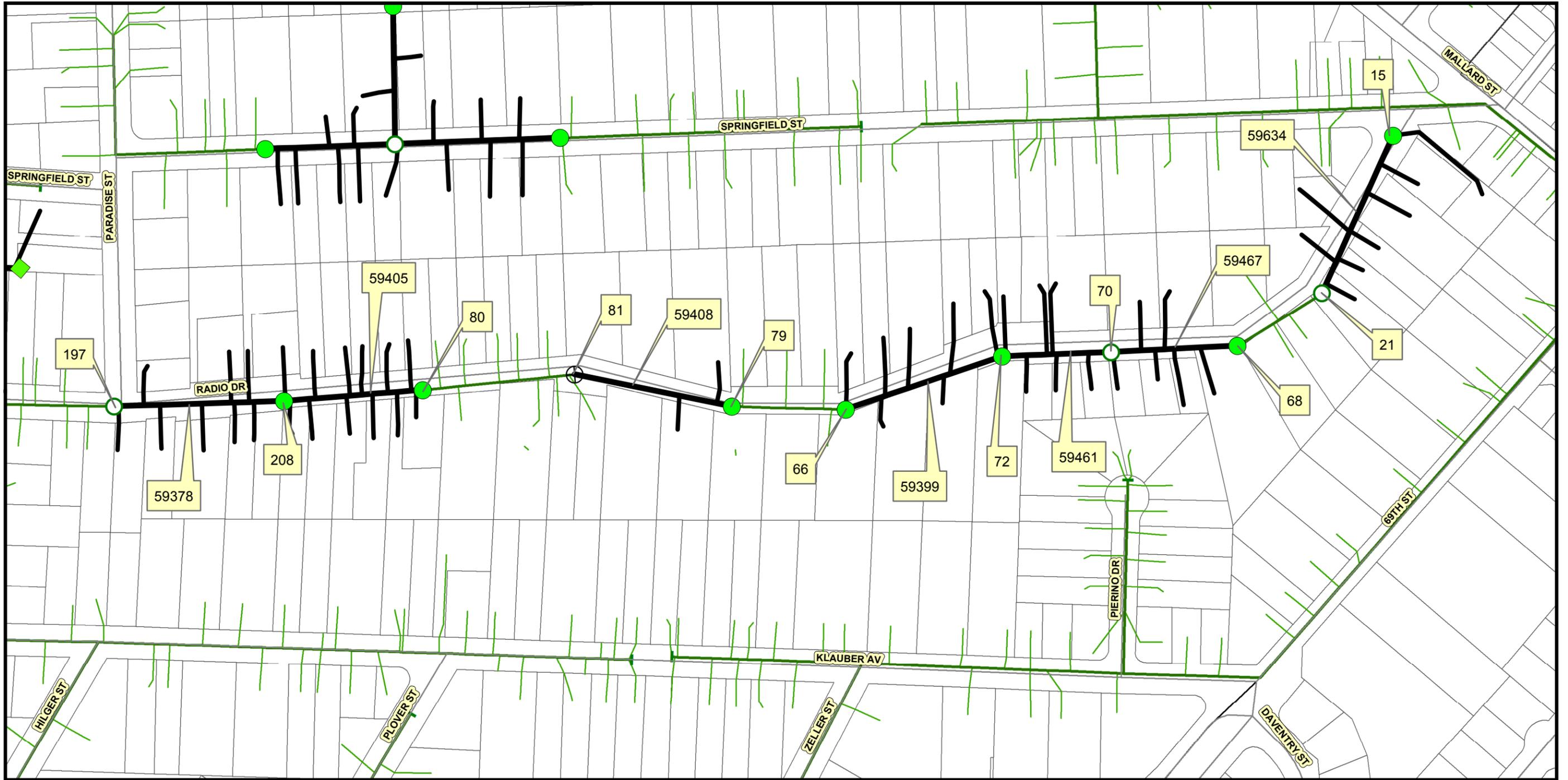
Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER
 12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1





SEE MAP 11

Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER

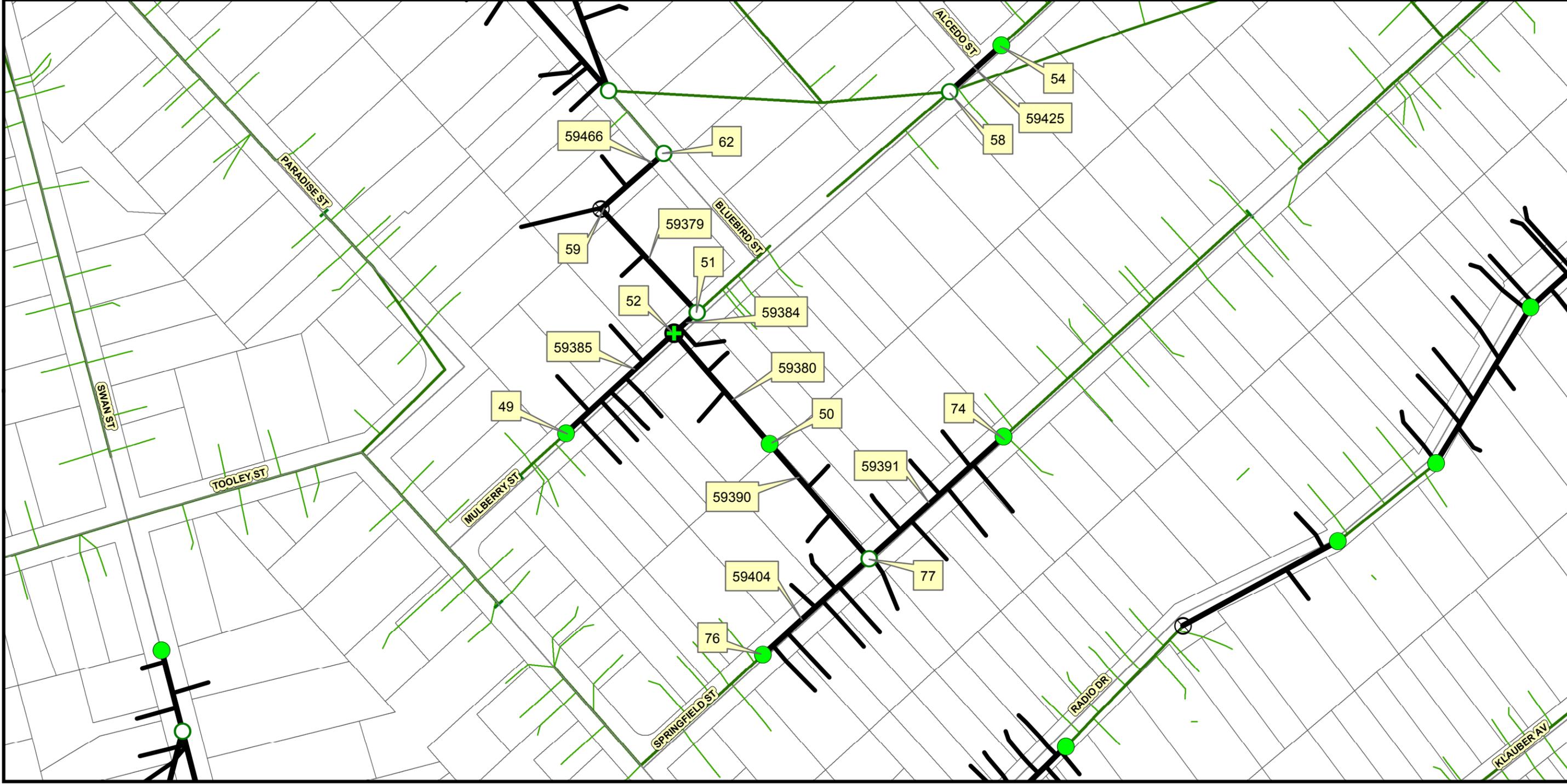
12345 FSN (Facility Sequence Number)

PIPELINE REHABILITATION AX-1



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SEE MAP 18



SEE MAP 10

SEE MAP 16

Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

123 MANHOLE ID NUMBER
 12345 FSN (Facility Sequence Number)

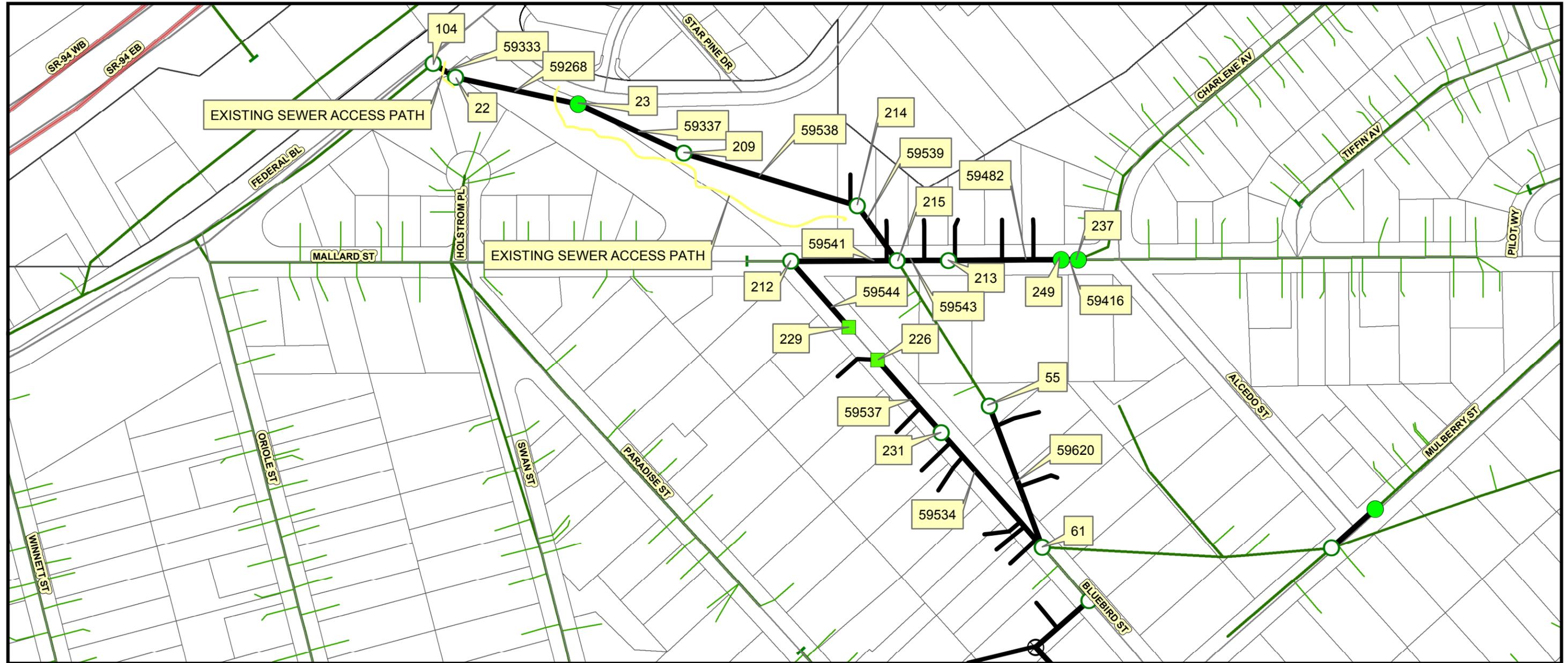
PIPELINE REHABILITATION AX-1



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NOTE:
 MANHOLES 22, 23 AND 209 SHALL BE ACCESSED
 ON FOOT UTILIZING THE EXISTING FOOT ACCESS PATHS.
 NO IMPACTS TO THE DRAINAGE CHANNEL OR REMOVAL
 OF VEGETATION IS AUTHORIZED.



SEE MAP 17

Legend

- Proposed Pipeline Rehabilitation
- Proposed Pipeline Rehabilitation w/ Point Repair
- Proposed MH Rehabilitation
- Proposed MH Rehabilitation w/ Point Repair
- Proposed MH Replacement
- Proposed Lateral Rehabilitation
- Proposed Cleanouts
- Existing Manhole
- Plugs
- Mains
- Laterals

- 123 MANHOLE ID NUMBER
- 12345 FSN (Facility Sequence Number)
- Existing Sewer Access Path

PIPELINE REHABILITATION AX-1

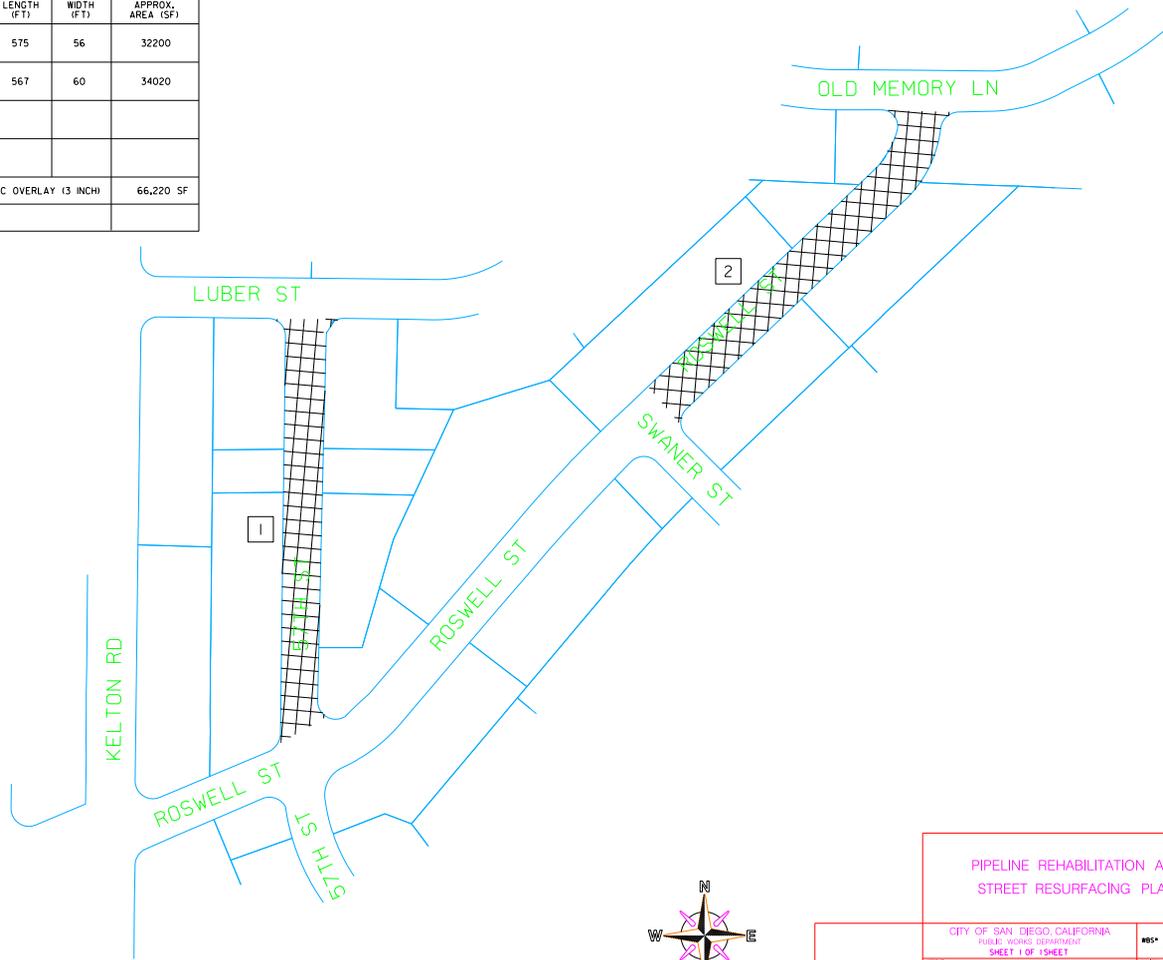


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RESURFACING PLAN SHEET

PAVING SCHEDULE NOTES							
NO.	LOCATION	STREET SEGMENT ID	OCI	RESTORATION REQUIRED	LENGTH (FT)	WIDTH (FT)	APPROX. AREA (SF)
1	57TH STREET BETWEEN LUBER ST AND ROSWELL ST	N/A	FAIR	FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)	575	56	32200
2	ROSWELL STREET BETWEEN SWANER ST AND OLD MEMORY LN	N/A	FAIR	FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)	567	60	34020
TOTAL AREA OF FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)							66,220 SF

LEGEND	
	APPROX. LIMITS OF FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)



C-0

PIPELINE REHABILITATION AX-1
STREET RESURFACING PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 1 OF 1 SHEET				HS# B-18203
DESIGNED BY	DATE	DESIGNED BY	DATE	PROJECT ENGINEER
JONARD TALAMAYAN		ELIZABETH DUNN		
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	XX/XX			
CONTRACTOR				DATE STARTED
INSPECTOR				DATE COMPLETED

REFERENCE ASBUILT DRAWINGS

As-built drawings can be found at:

<https://filecloud.sandiego.gov/url/qe2yhrkd42jhd8cv>

APPENDIX I

SEWER MAIN PIPELINE REHABILITATION AX-1 SPREADSHEETS

PIPELINE REHABILITATION AX-1			PIPELINE SPREADSHEET			B-18203													
SHEET NO.	FSN	SIZE (inches)	MATL	LENGTH (feet)	LATERALS	US FIELD BOOK	US MH ID	US MH IE	US MH DEPTH	DS FIELD BOOK	DS MH ID	DS MH IE	DS MH DEPTH	INSTALLED DATE	ACTION	STREET NAME	COMMUNITY	COUNCIL DISTRICT	
1	52948	12	VC	185	5	K22S	368	0	9	K22S	497	109.27	11	1/1/1952	REHAB	51 ST ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
2	52701	8	VC	321	5	K22S	100	233.61	21	K22S	271	232.33	13	1/1/1952	POINT REPAIR & REHAB	SELMA PL	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
2	52725	8	VC	370	10	K22S	99	230.72	12	K22S	98	226.85	22	1/1/1952	REHAB	MELROSE PL	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
3	52804	12	VC	375	6	K22S	215	141.8	13	K22S	201	130.8	8	1/1/1960	REHAB	ELWOOD AV	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
3	52808	12	VC	321	9	K22S	132	130.01	7.5	K22S	143	0	7.75	1/1/1960	REHAB	ELWOOD AV	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
4	52712	8	VC	150	5	K22S	265	271.27	7	K22S	168	266.47	8	1/1/1952	REHAB	DERBY ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
4	52713	8	VC	270	7	K22S	168	266.47	8	K22S	179	255.67	11	1/1/1952	REHAB	DERBY ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
4	52758	8	VC	300	10	K22S	175	253.12	8	K22S	154	201.12	9	1/1/1956	REHAB	LENOX DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
5	52661	8	VC	212	7	K22S	14	258.5	7	K22S	13	256.06	7	1/1/1957	REHAB	MC HUGH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
5	52662	8	VC	153	3	K22S	13	256.06	7	K22S	10	252.67	6	1/1/1957	REHAB	MC HUGH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
5	52703	8	VC	130	4	K22S	446	265.09	9	K22S	444	262.22	9	6/5/1953	POINT REPAIR & REHAB	CRESTON DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
5	52715	8	VC	230	4	K22S	444	262.22	9	K22S	445	257.85	11	1/1/1952	POINT REPAIR & REHAB	CRESTON DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52688	8	VC	295	6	K22S	422	165.12	5	K22S	425	160.58	5	1/1/1952	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52690	8	VC	227	3	K22S	379	178.14	8.8	K22S	422	165.12	5	1/1/1975	REHAB	PITTA ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52693	8	VC	300	7	K22S	425	160.58	5	K22S	426	151.16	6	1/1/1952	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52783	8	VC	363	3	K22S	421	129.29	9	K22S	418	121.45	9	1/1/1952	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52917	8	VC	326	5	K22S	426	151.16	6	K22S	427	140.52	5	1/1/1952	POINT REPAIR & REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52929	8	VC	360	3	K22S	418	121.45	9	K22S	478	115.12	8	1/1/1952	POINT REPAIR & REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52930	8	VC	30	0	K22S	478	115.12	8	K22S	482	113.38	12	1/1/1975	REHAB	54TH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52933	8	VC	30	0	K22S	482	113.38	12	K22S	102	111.8	10	1/1/1975	REHAB	54TH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
6	52692	8	VC	410	7	K22S	427	140.52	5	K22S	421	129.29	9	1/1/1952	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
7	52641	8	VC	350	12	K22S	61	239.54	7	K22S	406	235.03	6	1/1/1957	REHAB	ALVIN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
7	52651	8	VC	312	10	K22S	452	270.91	8	K22S	114	261.75	7	1/1/1957	REHAB	ALVIN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
7	52655	8	VC	350	12	K22S	114	261.75	7	K22S	195	251.91	7	1/1/1957	REHAB	ALVIN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
7	52660	8	VC	350	10	K22S	195	251.91	7	K22S	61	239.54	7	1/1/1957	REHAB	ALVIN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
7	52769	8	VC	140	5	K22S	36	278.58	7	K22S	452	270.91	8	1/1/1957	REHAB	SWANER ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
7	52911	8	VC	350	11	K22S	406	235.03	6	K22S	72	228.2	10	1/1/1957	REHAB	ALVIN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52358	8	VC	152	2	K21S	170	282.62	6	K21S	172	270.46	11	1/1/1959	REHAB	GRAVITY WY	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52362	8	VC	330	10	K22S	15	341	6	K21S	167	326	8	1/1/1972	REHAB	OLD MEMORY LN	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52363	8	VC	153	3	K21S	164	309	7	K21S	163	299.24	7	1/1/1972	REHAB	OLD MEMORY LN	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52364	8	VC	51	3	K21S	162	312	8	K21S	164	309	7	1/1/1972	REHAB	OLD MEMORY LN	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52365	8	VC	246	9	K21S	167	326	8	K21S	162	312	8	1/1/1972	REHAB	OLD MEMORY LN	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52369	8	VC	228	4	K21S	163	299.24	7	K21S	170	282.62	6	1/1/1972	REHAB	OLD MEMORY LN	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52371	8	VC	267	3	K21S	152	294	15	K21S	170	282.62	6	1/1/1972	REHAB	GRAVITY WY	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52448	8	VC	310	8	K22S	1	311.97	10	K21S	166	300.5	7	1/1/1972	REHAB	OLD MEMORY LN	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52727	8	VC	256	6	K22S	416	279.12	7	K22S	11	275.97	7	1/1/1957	REHAB	57TH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52728	8	VC	350	12	K22S	2	310.37	10	K22S	214	299.33	7	1/1/1957	REHAB	ROSWELL ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52729	8	VC	30	2	K22S	449	284.32	0	K22S	448	0	0	1/1/1957	REHAB	57TH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52731	8	VC	350	10	K22S	214	299.33	7	K22S	185	288.22	7	1/1/1957	REHAB	ROSWELL ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52739	8	VC	111	1	K22S	184	280.04	6	K22S	416	279.12	7	1/1/1957	REHAB	57TH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52741	8	VC	257	7	K22S	185	288.22	7	K22S	184	280.04	6	1/1/1957	REHAB	ROSWELL ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52743	8	VC	350	9	K22S	448	0	0	K22S	184	280.04	6	1/1/1957	REHAB	57TH ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52773	8	VC	200	6	K22S	4	319.97	0	K22S	2	310.37	10	1/1/1957	REHAB	ROSWELL ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
8	52914	8	VC	350	10	K22S	15	341	6	K22S	1	311.97	10	1/1/1972	REHAB	OLD MEMORY LN	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
9	59686	8	VC	350	0	L22S	52	265.31	13	L22S	326	261.11	16	1/1/1968	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
9	59723	8	VC	126	0	L22S	326	261.11	16	L22S	337	232.79	20	1/1/1968	REHAB	BROOKLYN AV	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59345	8	VC	188	2	L21S	103	329.52	7	L21S	113	325.62	14	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59346	8	VC	250	5	L21S	110	361.12	7	L21S	116	330.62	11	1/1/1958	REHAB	ORIOLE ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59348	8	VC	186	1	L21S	104	343.52	11	L21S	103	329.52	7	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59364	8	VC	252	2	L21S	106	0	0	L21S	82	0	0	1/1/1958	REHAB	SWAN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59369	8	VC	235	5	L21S	102	353.12	8	L21S	104	343.52	11	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59372	8	VC	41	2	L21S	157	436.12	14	L21S	107	422.88	10	7/1/1952	REHAB	ORIOLE ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59373	8	VC	250	4	L21S	107	422.88	10	L21S	110	361.12	7	6/5/1986	REHAB	ORIOLE ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59478	8	VC	300	9	L21S	24	444.81	15	L21S	27	443.58	18	7/1/1952	REHAB	REPUBLIC ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59480	8	VC	300	6	L21S	27	443.58	18	L21S	26	442.58	19	7/1/1952	REHAB	REPUBLIC ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59488	8	VC	141	2	L21S	82	365	0	L21S	171	0	5	1/1/1958	REHAB	SWAN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59493	8	VC	192	0	L21S	171	365	5	L21S	102	353.12	8	1/1/1958	REHAB	SWAN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
10	59494	8	VC	140	3	L21S	172	365	6	L21S	171	683.2	5	1/1/1958	REHAB	SWAN ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59343	8	VC	227	2	L21S	118	404.52	6	L21S	105	390.82	11	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59347	8	VC	250	3	L21S	182	426.69	13	L21S	105	390.82	11	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59350	8	VC	243	1	L21S	117	365.22	8	L21S	180	335.62	6	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59351	8	VC	225	4	L21S	88	371.52	6	L21S	117	365.22	8	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59352	8	VC	218	4	L21S	91	324.12	13	L21S	90	317.97	15	1/1/1958	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59354	8	VC	212	2	L21S	183	394.62	6	L21S	117	365.22	8	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59587	8	VC	98	1	L21S	194	399.12	5	L21S	183	394.62	6	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59614	8	VC	245	0	L21S	100	341.12	6	L21S	91	324.12	13	1/1/1958	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
11	59340	8	VC	175	0	L21S	105	390.82	11	L21S	117	365.22	8	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
12	59341	8	VC	166	2	L21S	114	354.22	6	L21S	113	325.62	14	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
12	59349	8	VC	149	0	L21S	89	314.92	11	L21S	156	308.74	6	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
12	59355	8	VC	49	0	L21S	116	330.62	11	L21S	113	325.62	14	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
12	59357	8	VC	193	2	L21S	115	355.52	6	L21S	116	330.62	11	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
12	59358	8	VC	160	3	L21S	119	372.12	15	L21S	114	354.22	6	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4	
12	59359	8	VC	200	1	L21S</													

PIPELINE REHABILITATION AX-1		PIPELINE SPREADSHEET		B-18203																		
SHEET NO.	FSN	SIZE (inches)	MATL	LENGTH (feet)	LATERALS	US FIELD BOOK	US MH ID	US MH IE	US MH DEPTH	DS FIELD BOOK	DS MH ID	DS MH IE	DS MH DEPTH	INSTALLED DATE	ACTION	STREET NAME	COMMUNITY	COUNCIL DISTRICT				
14	59644	8	VC	285	9	L22S	249	314.32	13	L22S	203	290.12	14	1/1/1960	REHAB	WUNDERLIN AV	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
14	59668	8	VC	124	2	L22S	203	290.12	14	L22S	206	288.98	7	1/1/1960	REHAB	WUNDERLIN AV	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
14	59860	8	VC	118	0	L22S	132	0	0	L22S	128	232.44	6.25	7/1/1952	REHAB	BROOKLYN AV	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
15	59419	8	VC	173	1	L21S	293	341.23	9	L21S	298	337.45	6	7/1/1952	REHAB	GIBSON ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
15	59548	8	VC	187	3	L21S	278	328.12	6	L21S	279	312.98	8	7/1/1952	REHAB	TARBOX ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
15	59561	8	VC	300	4	L21S	305	336.06	8	L21S	304	332.76	7	7/1/1952	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
15	59564	8	VC	348	6	L21S	298	337.45	6	L21S	305	336.06	8	7/1/1952	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
15	59571	8	VC	309	4	L21S	304	332.76	7	L21S	278	328.12	6	7/1/1952	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
16	59378	8	VC	285	8	L21S	208	354.42	15	L21S	197	347.12	10	1/1/1958	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
16	59399	8	VC	300	8	L21S	72	397.62	11	L21S	66	388.62	10	N/A	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
16	59405	8	VC	284	12	L21S	80	366.12	11	L21S	208	354.42	15	1/1/1958	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
16	59408	8	VC	300	1	L21S	79	381.62	9	L21S	81	374.62	8	1/1/1958	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
16	59461	8	VC	225	5	L21S	70	406.88	12	L21S	72	397.62	11	N/A	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
16	59467	8	VC	225	6	L21S	68	416.12	12	L21S	70	406.88	12	N/A	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				
16	59634	8	VC	312	9	L21S	15	450.62	8	L21S	21	427.62	9	1/1/1958	REHAB	RADIO DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4				

PIPELINE REHABILITATION AX-1		PIPELINE SPREADSHEET		B-18203																
SHEET NO.	FSN	SIZE (inches)	MATL	LENGTH (feet)	LATERALS	US FIELD BOOK	US MH ID	US MH IE	US MH DEPTH	DS FIELD BOOK	DS MH ID	DS MH IE	DS MH DEPTH	INSTALLED DATE	ACTION	STREET NAME	COMMUNITY	COUNCIL DISTRICT		
17	59379	8	VC	230	1	L21S	51	372.15	4	L21S	59	359.12	4	1/1/1958	REHAB	MULBERRY ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59380	8	VC	241	2	L21S	50	399.12	3	L21S	52	373.17	4	1/1/1958	REHAB	MULBERRY ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59384	8	VC	52	1	L21S	52	373.17	4	L21S	51	372.15	4	1/1/1958	REHAB	MULBERRY ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59385	8	VC	250	6	L21S	49	421.26	3	L21S	52	373.17	4	1/1/1958	REHAB	MULBERRY ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59390	8	VC	255	2	L21S	77	399.12	13	L21S	50	0	3	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59391	8	VC	303	6	L21S	74	439.85	3	L21S	77	402.45	13	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59404	8	VC	237	7	L21S	76	415.02	3	L21S	77	402.45	13	1/1/1958	REHAB	SPRINGFIELD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59425	8	VC	137	0	L21S	54	373.32	6	L21S	58	362.42	10	1/1/1958	REHAB	MULBERRY ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
17	59466	8	VC	139	2	L21S	59	359.12	4	L21S	62	349.12	6	1/1/1958	REHAB	BLUEBIRD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59268	8	VC	249	0	L20S	23	299.12	6	L20S	22	296.12	5	1/1/1958	REHAB	MAC ARTHUR DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59333	8	VC	174	0	L20S	22	296.12	5	L20S	104	292.5	7	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59337	8	VC	249	0	L21S	209	308.62	7	L20S	23	299.12	6	1/1/1958	REHAB	MAC ARTHUR DR	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59416	8	VC	34	0	L21S	237	368.58	8	L21S	249	364.12	4	1/1/1958	REHAB	MALLARD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59482	8	VC	200	3	L21S	249	364.12	4	L21S	213	352.92	3	1/1/1958	REHAB	MALLARD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59534	8	VC	311	5	L21S	231	353.12	6	L21S	61	345.12	11	1/1/1958	REHAB	BLUEBIRD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59537	8	VC	195	2	L21S	226	353.12	0	L21S	231	0	6	1/1/1958	REHAB	BLUEBIRD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59538	8	VC	362	1	L21S	214	319.62	6	L21S	209	308.62	7	1/1/1958	REHAB	EASEMENT	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59539	8	VC	135	0	L21S	215	325.12	30	L21S	214	319.62	6	1/1/1958	REHAB	MALLARD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59541	8	VC	239	1	L21S	212	351.92	4	L21S	215	325.12	30	1/1/1958	REHAB	MALLARD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59543	8	VC	91	1	L21S	213	352.92	3	L21S	215	325.12	30	1/1/1958	REHAB	MALLARD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59544	8	VC	175	0	L21S	229	351.92	0	L21S	212	0	4	1/1/1958	REHAB	BLUEBIRD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		
18	59620	8	VC	303	2	L21S	61	345.12	11	L21S	55	331.12	7	1/1/1958	REHAB	BLUEBIRD ST	ENCANTO NEIGHBORHOODS,SOUTHEASTERN	4		

TOTAL 27846 489

APPENDIX J

SEWER LATERAL PIPELINE REHABILITATION AX-1 SPREADSHEETS

PIPELINE REHABILITATION AX-1 LATERAL SPREADSHEET B-18203

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
1	1	52948	255657	4	K22S	1290A3	711	EUCLID AV
1	2	52948	256024	4	K22S	1290A3	648	51ST ST
1	3	52948	280584	4	K22S	1290A3	711	51ST ST
1	4	52948	358979	4	K22S	1290A3	705	EUCLID AV
1	5	52948	375503	4	K22S	1290A3	655	EUCLID AV
2	6	52701	254717	4	K22S	1290B3	835	SELMA PL
2	7	52701	358342	4	K22S	1290B3	834	SELMA PL
2	8	52701	358391	4	K22S	1290B3	824	SELMA PL
2	9	52701	358461	4	K22S	1290B3	814	SELMA PL
2	10	52701	358150	4	K22S	1290B3	5392	ROSWELL ST
2	11	52725	255203	4	K22S	1290B3	753	MELROSE PL
2	12	52725	255274	4	K22S	1290B3	753	MELROSE PL
2	13	52725	255285	4	K22S	1290B3	764	MELROSE PL
2	14	52725	255328	4	K22S	1290B3	753	MELROSE PL
2	15	52725	255433	4	K22S	1290B3	752	MELROSE PL
2	16	52725	255542	4	K22S	1290B3	740	MELROSE PL
2	17	52725	255546	4	K22S	1290B3	735	MELROSE PL
2	18	52725	255702	4	K22S	1290B3	721	MELROSE PL
2	19	52725	358714	4	K22S	1290B3	745	MELROSE PL
2	20	52725	359022	4	K22S	1290B3	724	MELROSE PL
3	21	52804	252212	4	K22S	1290B2	1145	ELWOOD AV
3	22	52804	280427	4	K22S	1290A2	1148	ELWOOD AV
3	23	52804	280438	4	K22S	1290A2	5217	LENOX DR
3	24	52804	280439	4	K22S	1290A2	1122	ELWOOD AV
3	25	52804	356713	4	K22S	1290B2	1135	ELWOOD AV
3	26	52804	375389	4	K22S	1290A2	1114	ELWOOD AV
3	27	52808	375403	4	K22S	1290A2	1010	EIWOOD AV
3	28	52808	252963	4	K22S	1290A2	1025	ELWOOD AV
3	29	52808	253245	4	K22S	1290A3	951	ELWOOD AV
3	30	52808	280468	4	K22S	1290A2	1026	ELWOOD AV
3	31	52808	280472	4	K22S	1290A3	1018	ELWOOD AV
3	32	52808	357192	4	K22S	1290A3	1009	ELWOOD AV
3	33	52808	357230	4	K22S	1290A3	1003	ELWOOD AV
3	34	52808	375406	4	K22S	1290A3	1002	ELWOOD AV
3	35	52808	375408	4	K22S	1290A3	954	ELWOOD AV

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
4	36	52712	253290	4	K22S	1290B3	941	DERBY ST
4	37	52712	253423	4	K22S	1290B3	938	DERBY ST
4	38	52712	253530	4	K22S	1290B3	930	DERBY ST
4	39	52712	357379	4	K22S	1290B3	944	DERBY ST
4	40	52712	357433	4	K22S	1290B3	931	DERBY ST
4	41	52713	253050	4	K22S	1290B2	1020	DERBY ST
4	42	52713	253121	4	K22S	1290B3	1013	DERBY ST
4	43	52713	253181	4	K22S	1290B3	1001	DERBY ST
4	44	52713	357143	4	K22S	1290B2	1030	DERBY ST
4	45	52713	357184	4	K22S	1290B2	1021	DERBY ST
4	46	52713	357217	4	K22S	1290B3	1012	DERBY ST
4	47	52713	357292	4	K22S	1290B3	1012	DERBY ST
4	48	52758	252067	4	K22S	1290B2	5442	LENOX DR
4	49	52758	252075	4	K22S	1290B2	5450	LENOX DR
4	50	52758	252081	4	K22S	1290B2	5476	LENOX DR
4	51	52758	252120	4	K22S	1290B2	5471	LENOX DR
4	52	52758	252262	4	K22S	1290B2	5451	LENOX DR
4	53	52758	356536	4	K22S	1290B2	5430	LENOX DR
4	54	52758	356540	4	K22S	1290B2	5462	LENOX DR
4	55	52758	356662	4	K22S	1290B2	5433	LENOX DR
4	56	52758	356666	4	K22S	1290B2	5443	LENOX DR
4	57	52758	356674	4	K22S	1290B2	5461	LENOX DR
5	58	52661	255097	4	K22S	1290B3	776	56TH ST
5	59	52661	255098	4	K22S	1290B3	764	56TH ST
5	60	52661	255099	4	K22S	1290B3	5614	MC HUGH ST
5	61	52661	255100	4	K22S	1290B3	5622	MC HUGH ST
5	62	52661	255101	4	K22S	1290B3	5630	MC HUGH ST
5	63	52661	358523	4	K22S	1290B3	5606	MC HUGH ST
5	64	52661	358609	4	K22S	1290B3	5625	MC HUGH ST
5	65	52662	255116	4	K22S	1290B3	5638	MC HUGH ST
5	66	52662	255143	4	K22S	1290B3	5646	MC HUGH ST
5	67	52662	255237	4	K22S	1290B3	5635	MC HUGH ST
5	68	52703	254250	4	K22S	1290B3	5567	CRESTON DR
5	69	52703	254295	4	K22S	1290B3	5538	CRESTON DR
5	70	52703	358143	4	K22S	1290B3	5549	CRESTON DR
5	71	52703	N/A	4	K22S	1290B3	5559	CRESTON DR
5	72	52715	253918	4	K22S	1290B3	5560	CRESTON DR
5	73	52715	357773	4	K22S	1290B3	5579	CRESTON DR
5	74	52715	357839	4	K22S	1290B3	5575	CRESTON DR
5	75	52715	357857	4	K22S	1290B3	5544	CRESTON DR

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
6	76	52688	257966	4	K22S	1290C3	5733	MARKET ST
6	77	52688	257967	4	K22S	1290C3	5733	MARKET ST
6	78	52688	257974	4	K22S	1290C3	5759	MARKET ST
6	79	52688	257975	4	K22S	1290C3	5751	MARKET ST
6	80	52688	257981	4	K22S	1290C3	5767	MARKET ST
6	81	52688	360414	4	K22S	1290C3	5759	MARKET ST
6	82	52690	257716	4	K22S	1290C3	5805	MARKET ST
6	83	52690	257740	4	K22S	1290C3	5805	MARKET ST
6	84	52690	360310	4	K22S	1290C3	5767	MARKET ST
6	85	52693	257956	4	K22S	1290B3	5655	MARKET ST
6	86	52693	257962	4	K22S	1290B3	5711	MARKET ST
6	87	52693	257963	4	K22S	1290C3	5719	MARKET ST
6	88	52693	360393	4	K22S	1290B3	5649	MARKET ST
6	89	52693	360396	4	K22S	1290B3	5663	MARKET ST
6	90	52693	360400	4	K22S	1290B3	5703	MARKET ST
6	91	52693	360403	4	K22S	1290C3	5725	MARKET ST
6	92	52783	257927	4	K22S	1290B3	5515	MARKET ST
6	93	52783	360372	4	K22S	1290B3	5465	MARKET ST
6	94	52783	360373	4	K22S	1290B3	5475	MARKET ST
6	95	52917	257953	4	K22S	1290B3	5615	MARKET ST
6	96	52917	257954	4	K22S	1290B3	5631	MARKET ST
6	97	52917	360390	4	K22S	1290B3	5615	MARKET ST
6	98	52917	360391	4	K22S	1290B3	5639	MARKET ST
6	99	52917	360392	4	K22S	1290B3	5649	MARKET ST
6	100	52929	257913	4	K22S	1290B3	5455	MARKET ST
6	101	52929	5573925	6	K22S	1290B3	5415	MARKET ST
6	102	52929	5573926	6	K22S	1290B3	5415	MARKET ST
6	103	52692	257936	4	K22S	1290B3	5539	MARKET ST
6	104	52692	257939	4	K22S	1290B3	5539	MARKET ST
6	105	52692	257940	4	K22S	1290B3	5539	MARKET ST
6	106	52692	257941	4	K22S	1290B3	5539	MARKET ST
6	107	52692	360383	4	K22S	1290B3	5567	MARKET ST
6	108	52692	257946	4	K22S	1290B3	5579	MARKET ST
6	109	52692	257947	4	K22S	1290B3	5587	MARKET ST
7	110	52660	358353	4	K22S	1290C3	812	ALVIN ST
7	111	52641	255117	4	K22S	1290C3	802	KELTON RD
7	112	52641	255131	4	K22S	1290C3	755	ALVIN ST
7	113	52641	255435	4	K22S	1290C3	719	ALVIN ST
7	114	52641	255555	4	K22S	1290C3	707	ALVIN ST
7	115	52641	255609	4	K22S	1290C3	704	ALVIN ST
7	116	52641	255703	4	K22S	1290C3	697	ALVIN ST
7	117	52641	358597	4	K22S	1290C3	743	ALVIN ST
7	118	52641	358613	4	K22S	1290C3	736	ALVIN ST
7	119	52641	358655	4	K22S	1290C3	731	ALVIN ST
7	120	52641	358676	4	K22S	1290C3	724	ALVIN ST

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
7	121	52641	358765	4	K22S	1290C3	716	ALVIN ST
7	122	52641	358937	4	K22S	1290C3	696	ALVIN ST
7	123	52651	253449	4	K22S	1290C3	1001	SWANER ST
7	124	52651	253575	4	K22S	1290C3	975	ALVIN ST
7	125	52651	253680	4	K22S	1290C3	965	ALVIN ST
7	126	52651	253803	4	K22S	1290C3	942	ALVIN ST
7	127	52651	357419	4	K22S	1290C3	1002	SWANER ST
7	128	52651	357489	4	K22S	1290C3	972	ALVIN ST
7	129	52651	357571	4	K22S	1290C3	962	ALVIN ST
7	130	52651	357623	4	K22S	1290C3	952	ALVIN ST
7	131	52651	357660	4	K22S	1290C3	955	ALVIN ST
7	132	52651	357695	4	K22S	1290C3	945	ALVIN ST
7	133	52655	253876	4	K22S	1290C3	932	ALVIN ST
7	134	52655	254037	4	K22S	1290C3	925	ALVIN ST
7	135	52655	254141	4	K22S	1290C3	915	ALVIN ST
7	136	52655	254273	4	K22S	1290C3	903	ALVIN ST
7	137	52655	254365	4	K22S	1290C3	863	ALVIN ST
7	138	52655	254446	4	K22S	1290C3	852	ALVIN ST
7	139	52655	357760	4	K22S	1290C3	935	ALVIN ST
7	140	52655	357767	4	K22S	1290C3	922	ALVIN ST
7	141	52655	357846	4	K22S	1290C3	912	ALVIN ST
7	142	52655	357926	4	K22S	1290C3	902	ALVIN ST
7	143	52655	357995	4	K22S	1290C3	862	ALVIN ST
7	144	52655	358139	4	K22S	1290C3	853	ALVIN ST
7	145	52660	254557	4	K22S	1290C3	842	ALVIN ST
7	146	52660	254712	4	K22S	1290C3	833	ALVIN ST
7	147	52660	255030	4	K22S	1290C3	801	ALVIN ST
7	148	52660	358215	4	K22S	1290C3	843	ALVIN ST
7	149	52660	358224	4	K22S	1290C3	832	ALVIN ST
7	150	52660	358297	4	K22S	1290C3	822	ALVIN ST
7	151	52660	358351	4	K22S	1290C3	823	ALVIN ST
7	152	52660	358394	4	K22S	1290C3	811	ALVIN ST
7	153	52660	358424	4	K22S	1290C3	801	KELTON RD
7	154	52769	253104	4	K22S	1290C2	1031	SWANER ST
7	155	52769	253105	4	K22S	1290C2	1041	SWANER ST
7	156	52769	357301	4	K22S	1290C3	1021	SWANER ST
7	157	52769	357323	4	K22S	1290C3	1030	SWANER ST
7	158	52769	357364	4	K22S	1290C3	1011	SWANER ST
7	159	52911	256000	4	K22S	1290C3	675	ALVIN ST
7	160	52911	256068	4	K22S	1290C3	666	ALVIN ST
7	161	52911	256099	4	K22S	1290C3	665	ALVIN ST
7	162	52911	256158	4	K22S	1290C3	656	ALVIN ST
7	163	52911	256271	4	K22S	1290C3	646	ALVIN ST
7	164	52911	256339	4	K22S	1290C3	645	ALVIN ST
7	165	52911	256618	4	K22S	1290C3	5745	KENWOOD ST

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
7	166	52911	359019	4	K22S	1290C3	687	ALVIN ST
7	167	52911	359032	4	K22S	1290C3	686	ALVIN ST
7	168	52911	359125	4	K22S	1290C3	676	ALVIN ST
7	169	52911	359262	4	K22S	1290C3	655	ALVIN ST
8	170	52358	250728	4	K21S	1290C2	1424	GRAVITY WY
8	171	52358	250843	4	K21S	1290C2	1404	GRAVITY WY
8	172	52362	251000	4	K21S	1290C2	5906	OLD MEMORY LN
8	173	52362	251029	4	K21S	1290C2	5911	OLD MEMORY LN
8	174	52362	251104	4	K21S	1290C2	5896	OLD MEMORY LN
8	175	52362	251124	4	K21S	1290C2	5905	OLD MEMORY LN
8	176	52362	251175	4	K21S	1290C2	5888	OLD MEMORY LN
8	177	52362	251206	4	K21S	1290C2	5897	OLD MEMORY LN
8	178	52362	251256	4	K21S	1290C2	5880	OLD MEMORY LN
8	179	52362	251282	4	K21S	1290C2	5891	OLD MEMORY LN
8	180	52362	251311	4	K22S	1290C2	5885	OLD MEMORY LN
8	181	52362	251369	4	K22S	1290C2	5879	OLD MEMORY LN
8	182	52363	250464	4	K21S	1290C2	5960	OLD MEMORY LN
8	183	52363	250477	4	K21S	1290C2	5968	OLD MEMORY LN
8	184	52363	355616	4	K21S	1290C2	5974	OLD MEMORY LN
8	185	52364	250456	4	K21S	1290C2	5954	OLD MEMORY LN
8	186	52364	250519	4	K21S	1290C2	5940	OLD MEMORY LN
8	187	52364	355606	4	K21S	1290C2	5946	OLD MEMORY LN
8	188	52365	250583	4	K21S	1290C2	5932	OLD MEMORY LN
8	189	52365	250586	4	K21S	1290C2	5949	OLD MEMORY LN
8	190	52365	250705	4	K21S	1290C2	5926	OLD MEMORY LN
8	191	52365	250746	4	K21S	1290C2	5931	OLD MEMORY LN
8	192	52365	250853	4	K21S	1290C2	5925	OLD MEMORY LN
8	193	52365	250893	4	K21S	1290C2	5912	OLD MEMORY LN
8	194	52365	355755	4	K21S	1290C2	5937	OLD MEMORY LN
8	195	52365	355868	4	K21S	1290C2	5918	OLD MEMORY LN
8	196	52365	355931	4	K21S	1290C2	5919	OLD MEMORY LN
8	197	52369	250527	4	K21S	1290C2	5982	OLD MEMORY LN
8	198	52369	250624	4	K21S	1290C2	5977	OLD MEMORY LN
8	199	52369	355672	4	K21S	1290C2	5988	OLD MEMORY LN
8	200	52369	355774	4	K21S	1290C2	5987	OLD MEMORY LN
8	201	52371	250397	4	K21S	1290C2	1484	GRAVITY WY
8	202	52371	250455	4	K21S	1290C2	1464	GRAVITY WY
8	203	52371	250558	4	K21S	1290C2	1444	GRAVITY WY
8	204	52448	251246	4	K21S	1290C2	5788	OLD MEMORY LN
8	205	52448	251290	4	K21S	1290C2	5796	OLD MEMORY LN
8	206	52448	251316	4	K22S	1290C2	5812	OLD MEMORY LN
8	207	52448	251348	4	K22S	1290C2	5820	OLD MEMORY LN
8	208	52448	251365	4	K22S	1290C2	5832	OLD MEMORY LN
8	209	52448	251504	4	K22S	1290C2	5817	OLD MEMORY LN
8	210	52448	251541	4	K22S	1290C2	5825	OLD MEMORY LN

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
8	211	52448	356217	4	K22S	1290C2	5809	OLD MEMORY LN
8	212	52727	253297	4	K22S	1290B3	933	57TH ST
8	213	52727	253347	4	K22S	1290B3	938	57TH ST
8	214	52727	253397	4	K22S	1290C3	915	57TH ST
8	215	52727	253468	4	K22S	1290B3	926	57TH ST
8	216	52727	253534	4	K22S	1290B3	914	57TH ST
8	217	52727	357511	4	K22S	1290C3	901	57TH ST
8	218	52728	251920	4	K22S	1290C2	5831	ROSWELL ST
8	219	52728	251925	4	K22S	1290C2	5822	ROSWELL ST
8	220	52728	252009	4	K22S	1290C2	5823	ROSWELL ST
8	221	52728	252225	4	K22S	1290C2	5805	ROSWELL ST
8	222	52728	252366	4	K22S	1290C2	5793	ROSWELL ST
8	223	52728	356399	4	K22S	1290C2	5830	ROSWELL ST
8	224	52728	356491	4	K22S	1290C2	5812	ROSWELL ST
8	225	52728	356560	4	K22S	1290C2	5815	ROSWELL ST
8	226	52728	356571	4	K22S	1290C2	5802	ROSWELL ST
8	227	52728	356654	4	K22S	1290C2	5794	ROSWELL ST
8	228	52728	356693	4	K22S	1290C2	5786	ROSWELL ST
8	229	52728	1146715	4	K22S	1290C2	5793	ROSWELL ST
8	230	52729	252345	4	K22S	1290B2	1117	57TH ST
8	231	52729	252346	4	K22S	1290B2	1116	57TH ST
8	232	52731	252552	4	K22S	1290C2	5763	ROSWELL ST
8	233	52731	252564	4	K22S	1290C2	5748	ROSWELL ST
8	234	52731	252776	4	K22S	1290C2	5743	ROSWELL ST
8	235	52731	356729	4	K22S	1290C2	5778	ROSWELL ST
8	236	52731	356751	4	K22S	1290C2	5783	ROSWELL ST
8	237	52731	356752	4	K22S	1290C2	5768	ROSWELL ST
8	238	52731	356789	4	K22S	1290C2	5773	ROSWELL ST
8	239	52731	356805	4	K22S	1290C2	5758	ROSWELL ST
8	240	52731	356907	4	K22S	1290C2	5738	ROSWELL ST
8	241	52731	356917	4	K22S	1290C2	5753	ROSWELL ST
8	242	52739	357268	4	K22S	1290B3	950	57TH ST
8	243	52741	252926	4	K22S	1290C2	5735	ROSWELL ST
8	244	52741	252955	4	K22S	1290B2	5714	ROSWELL ST
8	245	52741	253005	4	K22S	1290C2	5727	ROSWELL ST
8	246	52741	253055	4	K22S	1290C2	5719	ROSWELL ST
8	247	52741	253123	4	K22S	1290B2	947	57TH ST
8	248	52741	357016	4	K22S	1290C2	5728	ROSWELL ST
8	249	52741	357207	4	K22S	1290C2	5711	ROSWELL ST
8	250	52743	252403	4	K22S	1290B2	1106	57TH ST
8	251	52743	252633	4	K22S	1290B2	1037	57TH ST
8	252	52743	252757	4	K22S	1290B2	1026	57TH ST
8	253	52743	252909	4	K22S	1290B2	1014	57TH ST
8	254	52743	356750	4	K22S	1290B2	1107	57TH ST
8	255	52743	356799	4	K22S	1290B2	1050	57TH ST

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
8	256	52743	356821	4	K22S	1290B2	1051	57TH ST
8	257	52743	356897	4	K22S	1290B2	1038	57TH ST
8	258	52743	357158	4	K22S	1290B2	5648	ROSWELL ST
8	259	52773	251676	4	K22S	1290C2	5863	ROSWELL ST
8	260	52773	251710	4	K22S	1290C2	5855	ROSWELL ST
8	261	52773	251717	4	K22S	1290C2	5846	ROSWELL ST
8	262	52773	251766	4	K22S	1290C2	5838	ROSWELL ST
8	263	52773	251859	4	K22S	1290C2	5839	ROSWELL ST
8	264	52773	356360	4	K22S	1290C2	5847	ROSWELL ST
8	265	52914	251367	4	K22S	1290C2	5840	OLD MEMORY LN
8	266	52914	251368	4	K22S	1290C2	5848	OLD MEMORY LN
8	267	52914	251370	4	K22S	1290C2	5856	OLD MEMORY LN
8	268	52914	251457	4	K22S	1290C2	5873	OLD MEMORY LN
8	269	52914	251534	4	K22S	1290C2	5867	OLD MEMORY LN
8	270	52914	251565	4	K22S	1290C2	5833	OLD MEMORY LN
8	271	52914	251586	4	K22S	1290C2	5851	OLD MEMORY LN
8	272	52914	251588	4	K22S	1290C2	5859	OLD MEMORY LN
8	273	52914	356118	4	K22S	1290C2	5872	OLD MEMORY LN
8	274	52914	356146	4	K22S	1290C2	5864	OLD MEMORY LN
10	275	59345	249186	4	L21S	1290D1	6404	SPRINGFIELD ST
10	276	59345	354621	4	L21S	1290D1	1717	ORIOLE ST
10	277	59346	248928	4	L21S	1290D1	0	ORIOLE ST
10	278	59346	354542	4	L21S	1290D1	1726	ORIOLE ST
10	279	59346	354594	4	L21S	1290D1	1720	ORIOLE ST
10	280	59346	354663	4	L21S	1290D1	1712	ORIOLE ST
10	281	59346	354748	4	L21S	1290D2	1704	ORIOLE ST
10	282	59348	N/A	4	L21S	1290D1	6414	SPRINGFIELD ST
10	283	59364	248630	4	L21S	1290D1	1815	SWAN ST
10	284	59364	354155	4	L21S	1290D1	1825	SWAN ST
10	285	59369	248598	4	L21S	1290D1	1738	SWAN ST
10	286	59369	248723	4	L21S	1290D1	1734	SWAN ST
10	287	59369	248747	4	L21S	1290D1	1730	SWAN ST
10	288	59369	248770	4	L21S	1290D1	1726	SWAN ST
10	289	59369	354263	4	L21S	1290D1	1820	SWAN ST
10	290	59372	248511	4	L21S	1290D1	1818	ORIOLE ST
10	291	59372	248532	4	L21S	1290D1	1821	ORIOLE ST
10	292	59373	248796	4	L21S	1290D1	1738	ORIOLE ST
10	293	59373	5519473	4	L21S	1290D1	1738	ORIOLE ST
10	294	59373	N/A	4	L21S	1290D1	1808	ORIOLE ST
10	295	59373	N/A	4	L21S	1290D1	1741	ORIOLE ST
10	296	59478	249126	4	L21S	1290D1	1758	REPUBLIC ST
10	297	59478	249175	4	L21S	1290D2	1754	REPUBLIC ST
10	298	59478	249428	4	L21S	1290D2	1741	REPUBLIC ST
10	299	59478	249511	4	L21S	1290D2	1737	REPUBLIC ST
10	300	59478	354653	4	L21S	1290D1	1775	REPUBLIC ST

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
10	301	59478	354688	4	L21S	1290D1	1765	REPUBLIC ST
10	302	59478	354780	4	L21S	1290D2	1757	REPUBLIC ST
10	303	59478	354807	4	L21S	1290D2	1749	REPUBLIC ST
10	304	59478	354826	4	L21S	1290D2	1749	REPUBLIC ST
10	305	59480	248697	4	L21S	1290D1	1811	REPUBLIC ST
10	306	59480	248813	4	L21S	1290D1	1776	REPUBLIC ST
10	307	59480	354415	4	L21S	1290D1	1795	REPUBLIC ST
10	308	59480	354574	4	L21S	1290D1	1766	REPUBLIC ST
10	309	59480	377958	4	L21S	1290D1	1775	REPUBLIC ST
10	310	59480	N/A	4	L21S	1290D1	1789	REPUBLIC ST
10	311	59488	280330	4	L21S	1290D1	1840	SWAN ST
10	312	59488	375312	4	L21S	1290D1	1830	SWAN ST
10	313	59494	N/A	4	L21S	1290D1	1850	SWAN ST
10	315	59494	N/A	4	L21S	1290D1	1860	SWAN ST
10	316	59494	N/A	4	L21S	1290D1	1971	SWAN ST
11	316	59343	248899	4	L21S	1290D1	6464	SPRINGFIELD ST
11	317	59343	248931	4	L21S	1290D1	6460	SPRINGFIELD ST
11	318	59347	248737	4	L21S	1290D1	6506	SPRINGFIELD ST
11	319	59350	354686	4	L21S	1290D1	6524	RADIO DR
11	320	59351	249136	4	L21S	1290D1	6475	SPRINGFIELD ST
11	321	59351	249312	4	L21S	1290D2	6461	SPRINGFIELD ST
11	322	59352	249534	4	L21S	1290D2	6460	RADIO DR
11	323	59352	355069	4	L21S	1290D2	6451	RADIO DR
11	324	59352	355127	4	L21S	1290D2	6441	RADIO DR
11	325	59354	248904	4	L21S	1290D1	6515	SPRINGFIELD ST
11	326	59587	248662	4	L21S	1290D1	1840	PARADISE ST
11	327	59347	N/A	4	L21S	1290D1	6520	SPRINGFIELD ST
11	328	59347	N/A	4	L21S	1290D1	6530	SPRINGFIELD ST
11	329	59354	N/A	4	L21S	1290D1	6531	SPRINGFIELD ST
11	330	59351	N/A	4	L21S	1290D1	6481	SPRINGFIELD ST
11	331	59351	N/A	4	L21S	1290D1	6491	SPRINGFIELD ST
11	332	59352	N/A	4	L21S	1290D2	6455	RADIO DR
12	333	59341	354824	4	L21S	1290D2	6415	SPRINGFIELD ST
12	334	59357	249356	4	L21S	1290D2	6342	SPRINGFIELD ST
12	335	59357	249368	4	L21S	1290D2	6340	SPRINGFIELD ST
12	336	59358	249199	4	L21S	1290D1	6434	SPRINGFIELD ST
12	337	59358	354795	4	L21S	1290D2	6435	SPRINGFIELD ST
12	338	59596	249558	4	L21S	1290D2	6327	SPRINGFIELD ST
12	339	59596	249594	4	L21S	1290D2	6323	SPRINGFIELD ST
12	340	59596	354936	4	L21S	1290D2	6341	SPRINGFIELD ST
12	341	59596	354948	4	L21S	1290D2	6333	SPRINGFIELD ST
12	342	59609	249752	4	L21S	1290D2	6382	RADIO DR
12	343	59609	249779	4	L21S	1290D2	6382	RADIO DR
12	344	59610	249843	4	L21S	1290D2	6406	RADIO DR
12	345	59610	355177	4	L21S	1290D2	6409	RADIO DR

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
12	346	59610	355193	4	L21S	1290D2	6407	RADIO DR
12	347	59612	250021	4	L21S	1290D2	6359	RADIO DR
12	348	59612	355268	4	L21S	1290D2	6367	RADIO DR
12	349	59613	249891	4	L21S	1290D2	6368	RADIO DR
12	350	59615	355103	4	L21S	1290D2	6438	RADIO DR
12	351	59615	355133	4	L21S	1290D2	6414	RADIO DR
12	352	59358	N/A	4	L21S	1290D2	6455	SPRINGFIELD ST
12	353	59341	N/A	4	L21S	1290D2	6425	SPRINGFIELD ST
12	354	59359	N/A	4	L21S	1290D2	6409	SPRINGFIELD ST
12	355	59613	N/A	4	L21S	1290D2	6377	RADIO DR
12	356	59613	N/A	4	L21S	1290D2	6387	RADIO DR
12	357	59610	N/A	4	L21S	1290D2	6397	RADIO DR
12	358	59615	N/A	4	L21S	1290D2	6433	RADIO DR
13	359	59688	356137	4	L22S	1290 E2	1331	KLAUBER AV
13	360	59688	356232	4	L22S	1290 E2	1315	KLAUBER AV
13	361	59689	251609	4	L22S	1290 E2	1298	BITTERN ST
13	362	59691	250885	4	L21S	1290 E2	1355	KLAUBER AV
13	363	59691	250994	4	L21S	1290 E2	1353	KLAUBER AV
13	364	59691	251131	4	L21S	1290 E2	1347	KLAUBER AV
13	365	59691	5491233	4	L21S	1290 E2	1375	KLAUBER AV
13	366	59953	252206	2	L22S	1290 E2	1189	KLAUBER AV
13	367	59953	252340	4	L22S	1290 E2	1183	KLAUBER AV
13	368	59953	252353	4	L22S	1290 E2	1183	KLAUBER AV
13	369	59730	N/A	4	L22S	1290 E2	1209	KLAUBER AV
14	370	59644	254516	4	L22S	1290 E3	6854	WUNDERLIN AV
14	371	59644	254562	4	L22S	1290 E3	0	WUNDERLIN AV
14	372	59644	358158	2	L22S	1290 E3	0	WUNDERLIN AV
14	373	59644	254513	4	L22S	1290 E3	6834	WUNDERLIN AV
14	374	59644	254652	4	L22S	1290 E3	6819	WUNDERLIN AV
14	375	59644	358122	4	L22S	1290 E3	6818	WUNDERLIN AV
14	376	59644	358124	4	L22S	1290 E3	6828	WUNDERLIN AV
14	377	59644	358128	4	L22S	1290 E3	6862	WUNDERLIN AV
14	378	59644	358234	4	L22S	1290 E3	6859	WUNDERLIN AV
14	379	59668	358160	4	L22S	1290 E3	0	WUNDERLIN AV
14	380	59668	281273	4	L22S	1290 E3	6880	WUNDERLIN AV
15	381	59419	354945	4	L21S	1290 E2	1640	69th St
15	382	59548	355790	4	L21S	1290 E2	1487	GIBSON ST
15	383	59548	355883	4	L21S	1290 E2	1428	TARBOX ST
15	384	59548	5046807	4	L21S	1290 E2	1428	TARBOX ST
15	385	59561	355456	4	L21S	1290 E2	1551	GIBSON ST
15	386	59561	250061	4	L21S	1290 E2	1567	GIBSON ST
15	387	59561	250333	4	L21S	1290 E2	1545	GIBSON ST
15	388	59561	355408	4	L21S	1290 E2	1557	GIBSON ST
15	389	59564	249893	4	L21S	1290 E2	1552	TARBOX ST
15	390	59564	249945	4	L21S	1290 E2	1544	TARBOX ST

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
15	391	59564	355253	4	L21S	1290 E2	1577	GIBSON ST
15	392	59564	N/A	4	L21S	1290 E2	1581	GIBSON ST
15	393	59564	N/A	4	L21S	1290 E2	1591	GIBSON ST
15	394	59564	N/A	4	L21S	1290 E2	1611	GIBSON ST
15	395	59571	355556	4	L21S	1290 E2	1541	GIBSON ST
15	396	59571	355581	4	L21S	1290 E2	1525	GIBSON ST
15	397	59571	355652	4	L21S	1290 E2	1515	GIBSON ST
15	398	59571	N/A	4	L21S	1290 E2	1495	GIBSON ST
16	399	59378	248485	4	L21S	1290 E1	6616	RADIO DR
16	400	59378	248540	4	L21S	1290 E1	6610	RADIO DR
16	401	59378	248633	4	L21S	1290 E1	6615	RADIO DR
16	402	59378	248789	4	L21S	1290 E1	6601	RADIO DR
16	403	59378	354306	4	L21S	1290 E1	6615	RADIO DR
16	404	59378	354385	4	L21S	1290 E1	1805	PARADISE ST
16	405	59378	354390	4	L21S	1290 E1	6609	RADIO DR
16	406	59378	354467	4	L21S	1290 E1	6589	RADIO DR
16	407	59399	246957	4	L21S	1290 E1	6766	RADIO DR
16	408	59399	246964	4	L21S	1290 E1	6758	RADIO DR
16	409	59399	247059	4	L21S	1290 E1	6753	RADIO DR
16	410	59399	247180	4	L21S	1290 E1	6742	RADIO DR
16	411	59399	247245	4	L21S	1290 E1	6734	RADIO DR
16	412	59399	247362	4	L21S	1290 E1	6743	RADIO DR
16	413	59399	247371	4	L21S	1290 E1	6730	RADIO DR
16	414	59399	353311	4	L21S	1290 E1	6753	RADIO DR
16	415	59405	248180	4	L21S	1290 E1	6638	RADIO DR
16	416	59405	248262	4	L21S	1290 E1	6634	RADIO DR
16	417	59405	248420	4	L21S	1290 E1	6626	RADIO DR
16	418	59405	248468	4	L21S	1290 E1	6629	RADIO DR
16	419	59405	248502	4	L21S	1290 E1	6623	RADIO DR
16	420	59405	354000	4	L21S	1290 E1	6642	RADIO DR
16	421	59405	354082	4	L21S	1290 E1	6636	RADIO DR
16	422	59405	354143	4	L21S	1290 E1	6632	RADIO DR
16	423	59405	354145	4	L21S	1290 E1	6635	RADIO DR
16	424	59405	248387	4	L21S	1290 E1	6635	RADIO DR
16	425	59405	248278	4	L21S	1290 E1	6655	RADIO DR
16	426	59405	N/A	4	L21S	1290 E1	6653	RADIO DR
16	427	59408	5623076	4	L21S	1290 E1	6700	RADIO DR
16	428	59461	246865	4	L21S	1290 E1	6786	RADIO DR
16	429	59461	246880	4	L21S	1290 E1	6774	RADIO DR
16	430	59461	353098	4	L21S	1290 E1	6775	RADIO DR
16	431	59461	353138	4	L21S	1290 E1	6783	RADIO DR
16	432	59461	353175	4	L21S	1290 E1	6767	RADIO DR
16	433	59467	246604	4	L21S	1290 E1	6802	RADIO DR
16	434	59467	352919	4	L21S	1290 E1	6819	RADIO DR
16	435	59467	352947	4	L21S	1290 E1	6790	RADIO DR

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
16	436	59467	352978	4	L21S	1290 E1	6805	RADIO DR
16	437	59467	353067	4	L21S	1290 E1	6791	RADIO DR
16	438	59467	N/A	4	L21S	1290 E1	6795	RADIO DR
16	439	59634	245674	4	L21S	1290 E1	6895	RADIO DR
16	440	59634	245982	4	L21S	1290 E1	6860	RADIO DR
16	441	59634	246191	4	L21S	1290 E1	6843	RADIO DR
16	442	59634	352339	4	L21S	1290 E1	6885	RADIO DR
16	443	59634	352399	4	L21S	1290 E1	6865	RADIO DR
16	444	59634	352485	4	L21S	1290 E1	6855	RADIO DR
16	445	59634	352558	4	L21S	1290 E1	6853	RADIO DR
16	446	59634	352587	4	L21S	1290 E1	6836	RADIO DR
16	447	59408	N/A	4	L21S	1290 E1	6709	RADIO DR
17	448	59379	353106	4	L21S	1290D1	6570	MULBERRY ST
17	449	59380	353278	4	L21S	1290 E1	6555	MULBERRY ST
17	450	59380	247271	4	L21S	1290D1	6549	MULBERRY ST
17	451	59384	247064	4	L21S	1290 E1	6551	MULBERRY ST
17	452	59385	247300	4	L21S	1290D1	6541	MULBERRY ST
17	453	59385	5642362	4	L21S	1290D1	6540	MULBERRY ST
17	454	59385	353364	4	L21S	1290D1	6541	MULBERRY ST
17	455	59385	N/A	4	L21S	1290D1	6535	MULBERRY ST
17	456	59385	N/A	4	L21S	1290D1	6539	MULBERRY ST
17	457	59385	N/A	4	L21S	1290D1	6550	MULBERRY ST
17	458	59390	247590	4	L21S	1290 E1	6620	SPRINGFIELD ST
17	459	59390	353509	4	L21S	1290 E1	6626	SPRINGFIELD ST
17	460	59391	247473	4	L21S	1290 E1	6644	SPRINGFIELD ST
17	461	59391	247582	4	L21S	1290 E1	6647	SPRINGFIELD ST
17	462	59391	353468	4	L21S	1290 E1	6654	SPRINGFIELD ST
17	463	59391	353580	4	L21S	1290 E1	6630	SPRINGFIELD ST
17	464	59391	247517	4	L21S	1290 E1	6655	SPRINGFIELD ST
17	465	59391	N/A	4	L21S	1290 E1	6629	SPRINGFIELD ST
17	466	59404	247731	4	L21S	1290 E1	6620	SPRINGFIELD ST
17	467	59404	247861	4	L21S	1290 E1	6621	SPRINGFIELD ST
17	468	59404	247898	4	L21S	1290 E1	6609	SPRINGFIELD ST
17	469	59404	247984	4	L21S	1290 E1	6605	SPRINGFIELD ST
17	470	59404	248014	4	L21S	1290 E1	6593	SPRINGFIELD ST
17	471	59404	5471919	4	L21S	1290 E1	6625	SPRINGFIELD ST
17	472	59404	N/A	4	L21S	1290 E1	6610	SPRINGFIELD ST
17	473	59466	246643	4	L21S	1290D1	2120	BLUEBIRD ST
17	474	59466	5047012	4	L21S	1290D1	2120	BLUEBIRD ST
18	475	59482	352080	4	L21S	1290D1	6572	MALLARD ST
18	476	59482	352082	4	L21S	1290D1	6562	MALLARD ST
18	477	59482	352083	4	L21S	1290D1	6562	MALLARD ST
18	478	59534	246121	4	L21S	1290D1	2206	BLUEBIRD ST
18	479	59534	352634	4	L21S	1290D1	2202	BLUEBIRD ST
18	480	59534	352732	4	L21S	1290D1	2160	BLUEBIRD ST

SHEET NO	#	FSN	LATERAL FSN NO.	LATERAL SIZE	FIELD BOOK	THOMAS BRO.	STREET NUMBER	STREET NAME
18	481	59534	352779	4	L21S	1290D1	2144	BLUEBIRD ST
18	482	59537	245790	4	L21S	1290D1	2230	BLUEBIRD ST
18	483	59538	5494271	4	L21S	1290D1	6522	MALLARD ST
18	484	59541	280304	4	L21S	1290D1	6532	MALLARD ST
18	485	59543	352084	4	L21S	1290D1	6542	MALLARD ST
18	486	59620	245960	4	L21S	1290D1	2175	BLUEBIRD ST
18	487	59620	246201	4	L21S	1290D1	2155	BLUEBIRD ST
18	488	59537	N/A	4	L21S	1290D1	2218	BLUEBIRD ST
18	489	59534	N/A	4	L21S	1290D1	2152	BLUEBIRD ST

APPENDIX K

SEWER MANHOLE PIPELINE REHABILITATION AX-1 SPREADSHEETS

SHEET NO.	MANHOLE FSN	MANHOLE ID	MANHOLE IE	MANHOLE DEPTH	MANHOLE METHOD	STREET NAME	GATE PAGE	THOMAS BRO
1	119432	368	110.45	9	MH REHAB WITH POINT REPAIR	51ST STREET	K22S	1290A3
2	119279	99	230.72	12	MH REHAB	MELROSE PL	K22S	1290B3
4	119315	154	201.12	9	MH REHAB	LENOX DR	K22S	1290B2
4	119334	175	253.12	8	MH REHAB	LENOX DR	K22S	1290B2
4	119338	179	255.67	11	MH REHAB	GENENA AV	K22S	1290B2
4	119406	265	271.27	7	CLEANOUT	DERBY ST	K22S	1290B3
5	119217	10	252.67	6	MH REHAB	BOLLENBACHER ST	K22S	1290B3
5	119478	444	262.22	9	MH REHAB	CRESTON DR	K22S	1290B3
5	119480	446	265.09	9	CLEANOUT	CRESTON DR	K22S	1290B3
6	119465	426	151.16	6	MH REHAB	EASEMENT	K22S	1290B3
6	119496	478	115.12	8	MH REPLACEMENT	EASEMENT	K22S	1290B3
7	119237	36	278.58	7	CLEANOUT	ALVIN ST	K22S	1290C2
8	119212	4	319.97	0	CLEANOUT	ROSWELL STREET	K22S	1290C2
8	119036	152	294	15	MH REHAB	GRAVITY WAY	K21S	1290C2
8	119044	163	299.24	7	MH REHAB	OLD MEMORY LANE	K21S	1290C2
8	119045	164	309	7	MH REPLACEMENT	OLD MEMORY LANE	K21S	1290C2
8	119047	167	326	8	MH REHAB	OLD MEMORY LANE	K21S	1290C2
8	119050	170	282.62	6	MH REHAB	GRAVITY WAY	K21S	1290C2
8	119483	449	284.32	7	CLEANOUT	57TH STREET	K22S	1290B2
10	125879	102	353.12	8	MH REHAB	EASEMENT	L21S	1290D1
10	125881	104	343.52	11	MH REHAB	EASEMENT	L21S	1290D1
10	125884	107	422.88	10	MH REHAB	ORIOLE STREET	L21S	1290D1
10	125932	157	436.12	14	CLEANOUT	ORIOLE STREET	L21S	1290D1
10	125946	172	383.2	6	MH REHAB	SWAN STREET	L21S	1290D1
11	125882	105	390.82	11	MH REHAB WITH POINT REPAIR	SPRINGFIELD STREET	L21S	1290D1
11	125894	117	365.22	8	MH REHAB	EASEMENT	L21S	1290D1
11	125954	180	335.62	6	MH REPLACEMENT	RADIO DRIVE	L21S	1290D1
11	125956	182	426.69	13	MH REHAB	SPRINGFIELD STREET	L21S	1290D1
11	125968	194	399.12	5	CLEANOUT	EASEMENT	L21S	1290D1
12	125863	85	291.32	13	MH REPLACEMENT	RADIO DRIVE	L21S	1290D2
12	125892	115	355.52	6	MH REHAB	SPRINGFIELD STREET	L21S	1290D2
12	125896	119	372.12	15	MH REHAB	SPRINGFIELD STREET	L21S	1290D1
12	125931	156	308.74	6	MH REHAB	EASEMENT	L21S	1290D2
13	126171	97	382	0	CLEANOUT	KLAUBER AVE	L22S	1290 E2
13	126060	290	415.32	11	MH REHAB WITH POINT REPAIR	KLAUBER AVE	L21S	1290 E2
14	126200	132	0	0	MH REHAB	BROOKLYN AVE	L22S	1290 E3
14	126249	203	290.12	14	MH REHAB WITH POINT REPAIR	WUNDERLIN AVE	L22S	1290 E3
14	126251	206	288.98	7	MH REHAB	WUNDERLIN AVE	L22S	1290 E3
14	126283	249	314.32	13	MH REHAB WITH POINT REPAIR	WUNDERLIN AVE	L22S	1290 E3
15	126068	298	337.45	6	MH REHAB	EASEMENT	L21S	1290 E2
15	126075	305	336.06	8	MH REHAB	EASEMENT	L21S	1290 E2
16	125795	15	450.62	8	MH REHAB	RADIO DRIVE	L21S	1290 E1
16	125844	66	388.62	10	MH REHAB	RADIO DRIVE	L21S	1290 E1
16	125846	68	416.12	12	MH REHAB	RADIO DRIVE	L21S	1290 E1
16	125850	72	397.62	11	MH REHAB	RADIO DRIVE	L21S	1290 E1
16	125857	79	381.62	9	MH REHAB	RADIO DRIVE	L21S	1290 E1
16	125858	80	366.12	11	MH REHAB	RADIO DRIVE	L21S	1290 E1
16	125859	81	374.62	8	MH REPLACEMENT	RADIO DRIVE	L21S	1290 E1
16	125982	208	354.42	15	MH REHAB	RADIO DRIVE	L21S	1290 E1
17	125827	49	421.26	3	MH REHAB	MULBERRY STREET	L21S	1290D1
17	125828	50	399.12	3	MH REHAB	EASEMENT	L21S	1290 E1
17	125830	52	373.17	4	MH REHAB WITH POINT REPAIR	MULBERRY STREET	L21S	1290D1
17	125832	54	373.32	6	MH REHAB	MULBERRY STREET	L21S	1290 E1
17	125837	59	359.12	4	MH REPLACEMENT	EASEMENT	L21S	1290D1
17	125852	74	439.85	3	MH REHAB	SPRINGFIELD STREET	L21S	1290 E1
17	125854	76	415.02	3	MH REHAB	SPRINGFIELD STREET	L21S	1290 E1
18	125723	23	299.12	6	MH REHAB	EASEMENT	L20S	1270D7
18	126000	226	0	0	CLEANOUT	BLUEBIRD STREET	L21S	1290D1
18	126003	229	0	0	CLEANOUT	BLUEBIRD STREET	L21S	1290D1
18	126010	237	368.58	8	MH REHAB	MALLARD STREET	L21S	1290D1
18	126022	249	364.12	4	MH REHAB	MALLARD STREET	L21S	1290D1

MANHOLE REHABBED = 39
MANHOLE REPLACED= 6
MANHOLE REHABBED WITH POINT REPAIR= 6
CLEANOUTS =10

APPENDIX L

SEWER MAINS, LATERALS AND MANHOLE REHABILITATION SAMPLE DATA TEMPLATES

APPENDIX M
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.
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• 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 N

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 5-2, "Protection", of the 2015 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



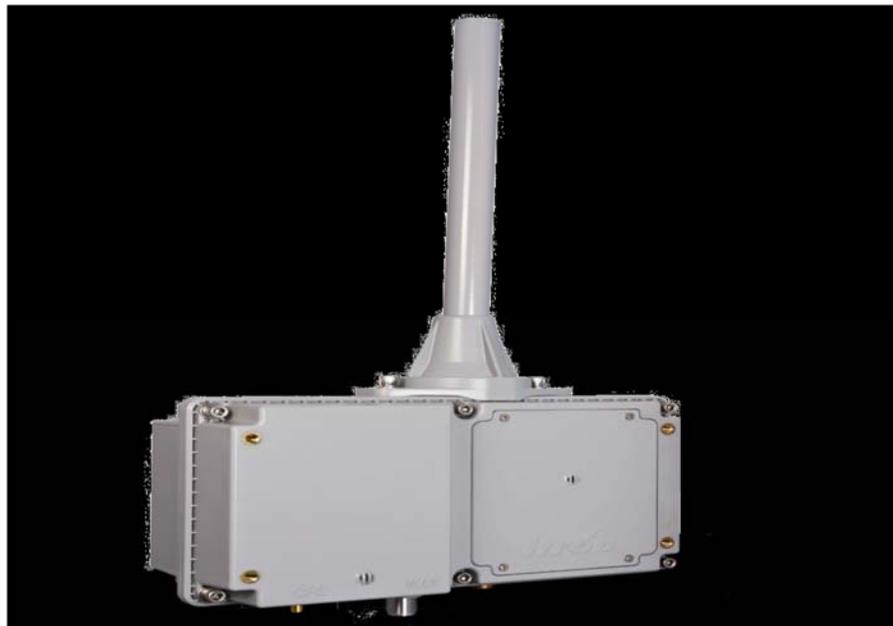
B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:

Photo 2



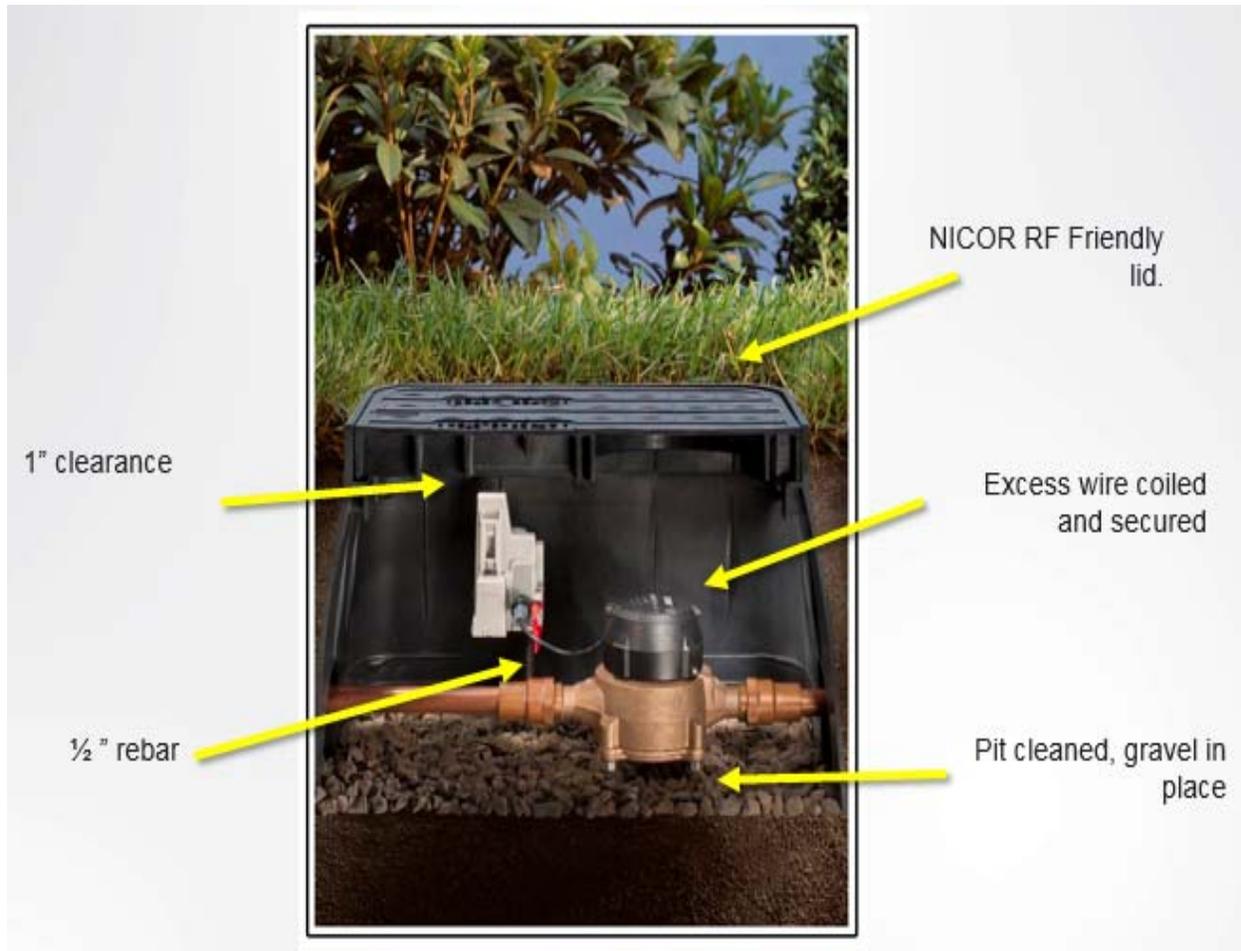
Network Devices, see Photo 3:

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

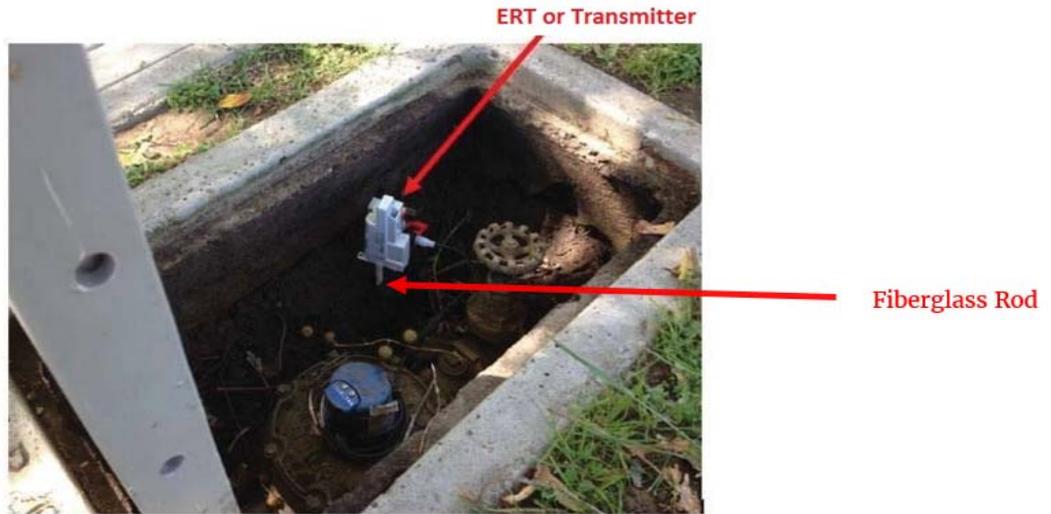


Photo 6 below is an example of disturbance that shall be avoided:

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.

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 Southwest Pipeline and Trenchless Corp., herein called "Contractor" for construction of **Pipeline Rehabilitation AX-1**; Bid No. **K-20-1898-DBB-3**; in the total amount Two Million Eight Hundred Thirty Three Thousand Two Hundred Nineteen Dollars and Zero Cents (\$2,833,219.00), which is comprised of the Base Bid consisting of an amount not to exceed \$1,290,000.00 for Phase I and \$1,543,219.00 for Phase II.

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) Phase Funding Schedule Agreement.
 - (e) That certain documents entitled **Pipeline Rehabilitation AX-1**, on file in the office of the Public Works Department as Document No. **B-18203**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **Pipeline Rehabilitation AX-1**, Bid Number **K-20-1898-DBB-3**, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances (See WHITEBOOK, Section 7-3.10, Phased Funding Compensation).
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement 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 §22.3102 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

By Stephen Samara

Mara W. Elliott, City Attorney

By Pedro De Lara, Jr.

Print Name: Stephen Samara
Principal Contract Specialist
Public Works Department

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

Date: 6/11/2020

Date: 6/12/20

CONTRACTOR

By Justin Duchaineau

Print Name: Justin Duchaineau

Title: President

Date: 5/14/20

City of San Diego License No.: B2003006118

State Contractor's License No.: 773862-A

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000002176

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

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

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 and Pledge of Compliance"), 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

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

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.

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:

Pipeline Rehabilitation AX-1

Project Title

as particularly described in said contract and identified as Bid No. **K-20-1898-DBB-3**; SAP No. (WBS/IO/CC) **B-18203**; 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 - Section 3-2, "SELF-PERFORMANCE", 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 ^①	WHERE CERTIFIED ^②
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

THE FOLLOWING FORMS MUST BE SUBMITTED IN PDF FORMAT WITH BID SUBMISSION

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

- A. BID BOND - See Instructions to Bidders, Bidders Guarantee of Good Faith (Bid Security) for further instructions**
- B. CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS**
- C. MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**
- D. DEBARMENT AND SUSPENSION CERTIFICATION**
- E. CONTRACTOR'S EXPERIENCE; PAST PROJECT DOCUMENTATION PER SUBSECTION 500-2.1 INITIAL SUBMITTALS ITEM 1E**
- F. AUTHORIZED INSTALLER CERTIFICATES PER SUBSECTION 500-2.1 INITIAL SUBMITTALS ITEM 1F**

Bids will not be accepted until ALL the above-named forms are submitted as part of the bid submittal

BID BOND

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

KNOW ALL MEN BY THESE PRESENTS,

That Southwest Pipeline and Trenchless Corp. as Principal,
and Liberty Mutual 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

Pipeline Rehabilitation AX-1; K-20-1898-DBB-3

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 11th day of December, 2019

Southwest Pipeline and Trenchless Corp. (SEAL)
(Principal)

By: [Signature]
(Signature)

Liberty Mutual Insurance Company (SEAL)
(Surety)

By: [Signature]
(Signature)
Noemi Quiroz, Attorney-in-Fact



(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Civil Code § 1189

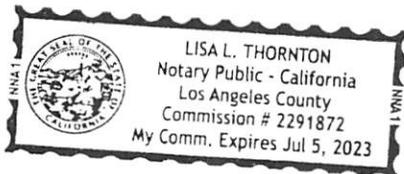
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

State of California)
) ss
County of Los Angeles)

On 12-11-19, before me, Lisa L. Thornton, Notary Public, personally appeared Noemi Quiroz, 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.



(Seal)

Signature: [Handwritten Signature]
Lisa L. Thornton, Notary Public

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees. To confirm the validity of this Power of Attorney call 610-832-8240 between 9:00 am and 4:30 pm EST on any business day.



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

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Noemi Quiroz of the city of Los Angeles, state of CA its true and lawful attorney-in-fact, with full power and authority hereby conferred to sign, execute and acknowledge the following surety bond:

Principal Name: Southwest Pipeline and Trenchless Corp.

Obligee Name: The City of San Diego

Surety Bond Number: Bid Bond Bond Amount: See Bond Form

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 12th day of December, 2018.



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

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

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 12th day of December, 2018, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

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

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

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

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

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

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company do hereby certify that this power of attorney executed by said Companies is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 11th day of December, 2019.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

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: Southwest Pipeline & Trenchless Corp.

Certified By Justin Duchaineau Title President

Name

Signature

Date 1-20-2020

USE ADDITIONAL FORMS AS NECESSARY

Mandatory Disclosure of Business Interests Form

BIDDER/PROPOSER INFORMATION

Legal Name Southwest Pipeline & Trenchless Corp.		DBA Southwest Pipeline & Trenchless Corp.	
Street Address 22118 S. Vermont Ave. ,	City Torrance,	State CA	Zip 90502
Contact Person, Title Justin Duchaineau-President	Phone 310-329-8717	Fax	310-329-0981

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.

Name Justin Duchaineau		Title/Position President	
City and State of Residence Los Angeles, California	Employer (if different than Bidder/Proposer) N/A		
Interest in the transaction Preparing and submitting the bid for purpose of contracting with the City of San Diego			
Name Robert Bolger			
		Title/Position Secretary	
City and State of Residence Pasadena, California	Employer (if different than Bidder/Proposer)		
Interest in the transaction Preparing and submitting the bid for purpose of contracting with the City of San Diego			

* 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.

Justin Duchaineau-President		1-20-2020
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

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 and 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 awards</i> , 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
Justin Duchaineau	President
Robert Bolger	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: Southwest Pipeline & Trenchless Corp.

Certified By: Justin Duchaineau Title President

Name



Signature

Date 1-20-2020

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

Names of the Principal individual owner(s)

FOR SUBCONTRACTORS/SUPPLIERS/MANUFACTURERS

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 - Craig Barry	President / Owner

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
American Asphalt South Allen Henderson	President / Owner

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
Easy Flow Adam Wilson	President / Owner

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
Zebnan Roger Decker	Owner

Contractor Name: Southwest Pipeline & Trenchless Corp.

Certified By Justin Duchaineau Title President



Name

Date 1-20-2020

Signature

USE ADDITIONAL FORMS AS NECESSARY

ENGINEER OF WORK

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

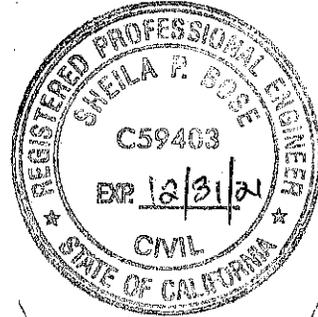


For City Engineer

1/2/20

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. NOTICE INVITING BIDS

1. To Section 3, Estimated Construction Cost, page 6, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$3,970,000**.

C. ATTACHMENTS

1. To Attachment A, Scope of Work, Section 1, Scope of Work, Scope of Work Description, page 22, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 1. **SCOPE OF WORK:** The proposed scope of work consists of trenchless rehabilitation of approximately 27,846 LF (5.27 miles) of existing 8-inch and 12-inch vitrified clay pipe (VCP) sewer mains. The project also includes approximately 6 points repairs, rehabilitation of all associated sewer laterals from sewer main to property line, rehabilitation of 39 manholes, replacement of 6 manholes, repair of 6 manholes, installation of 10 new main line cleanouts and installation of sewer lateral cleanouts as needed to complete the lateral lining work.

D. SUPPLEMENTARY SPECIAL PROVISIONS

1. To Supplementary Special Provisions Appendices, Appendix H, Site Maps, page 92, **DELETE** in its entirety and **SUBSTITUTE** with page 5 of this Addendum.
2. To Supplementary Special Provisions Appendices, Appendix H, Site Maps, Street Resurfacing Plan, page 123, **DELETE** in its entirety and **SUBSTITUTE** with page 6 of this Addendum.

E. ADDITIONAL CHANGES

1. The following are additional changes to the Line Items in the PlanetBids Tab:

For clarity where applicable, **ADDITIONS**, if any, have been **Underlined** and **DELETIONS**, if any, have been **~~Stricken out.~~**

Section	Item Code	Description	UoM	Quantity	Payment Reference
Main Bid	237310	Asphalt Concrete Overlay (3-Inch)	TON	1159	302-5.9
Main Bid	237310	Pavement Fabric	SY	7358	302-7.4
Main Bid	237310	Cold Milling Full width (2-Inch)	SF	66220	404-12

James Nagelvoort, Director
Public Works Department

Dated: *January 6, 2020*
San Diego, California

JN/MJ/mw

PIPELINE REHABILITATION AX-1

WORK TO BE DONE

CONSTRUCTION CONSISTS OF TRENCHLESS REHABILITATION 27846 LF (5.27 MILES) OF EXISTING 8-INCH & 12-INCH VITRIFIED CLAY PIPE (VCP) SEWER MAINS. THE PROJECT INCLUDES APPROXIMATELY 6 POINT REPAIRS, REHABILITATION OF ALL ASSOCIATED SEWER LATERALS FROM THE SEWER MAIN TO THE PROPERTY LINE, REHABILITATION OF 39 MANHOLES, REPLACEMENT OF 6 MANHOLES, REPAIR OF 6 MANHOLES, INSTANTION OF 10 NEW MAIN LINES CLEANOUTS AND INSTALLATION OF SEWER LATERAL CLEANOUTS. ~~RELATED WORK INCLUDES STREET RESURFACING.~~

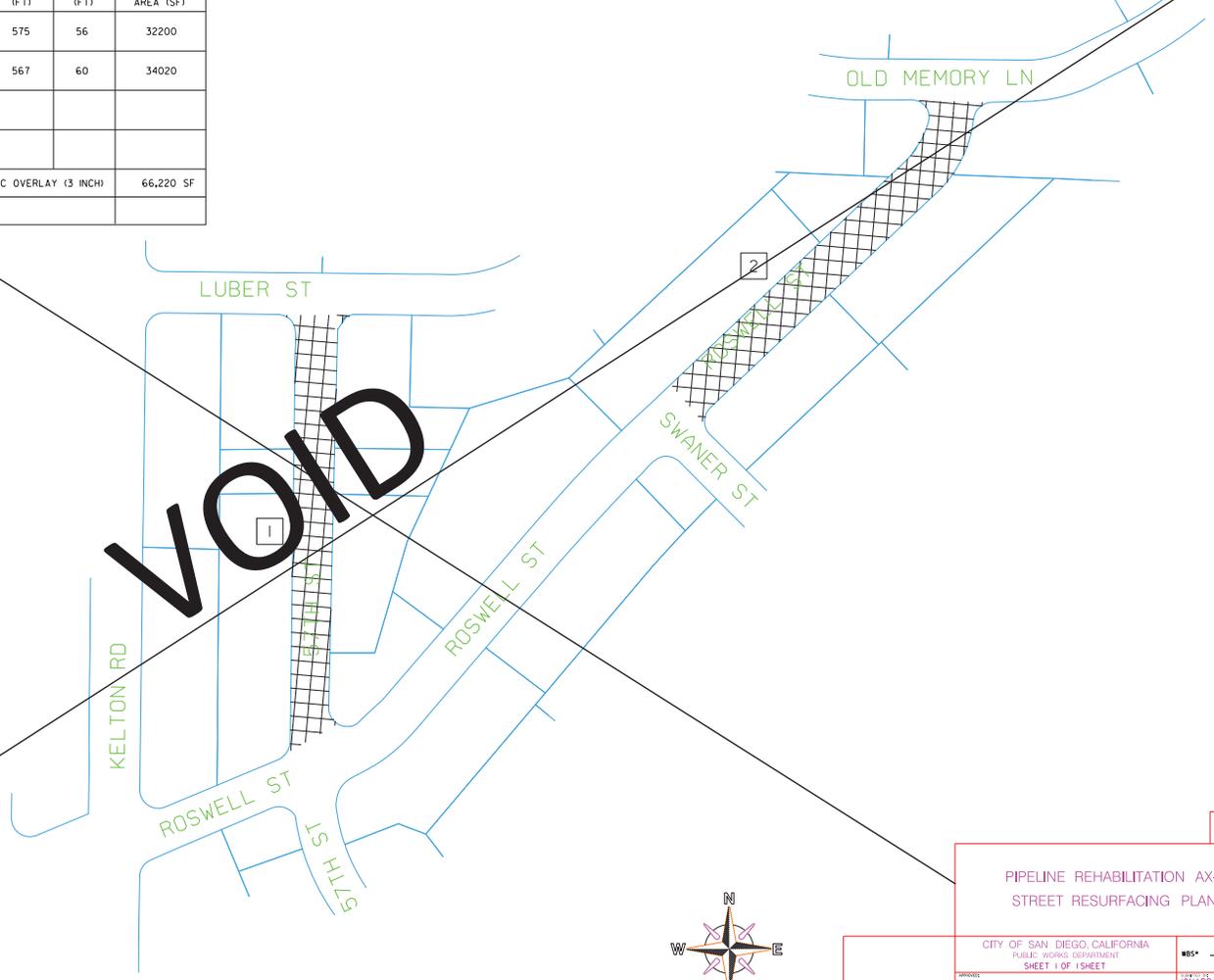
ADDENDUM 

CONTRACTOR'S RESPONSIBILITIES

1. PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
2. NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES (I.E. 69 KV & HIGHER)
3. LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
4. STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
5. UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILBLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FILED IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 5-UTILITIES.

PAVING SCHEDULE NOTES							
NO.	LOCATION	STREET SEGMENT ID	OCI	RESTORATION REQUIRED	LENGTH (F T)	WIDTH (F T)	APPROX. AREA (SF)
1	5TH STREET BETWEEN LUBER ST AND ROSWELL ST	N/A	FAIR	FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)	575	56	32200
2	ROSWELL STREET BETWEEN SWANER ST AND OLD MEMORY LN	N/A	FAIR	FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)	567	60	34020
TOTAL AREA OF FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)							66,220 SF

LEGEND	
	APPROX. LIMITS OF FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)



STREET RESURFACING PLAN

C-0

PIPELINE REHABILITATION AX-1
STREET RESURFACING PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 1 OF 1 SHEET				WBS# B-18203	
PROJECT ENGINEER	DATE	PROJECT MANAGER		JONARD TALAMAYAN	
PROJECT CHIEF	DATE	PROJECT SUPERVISOR		ELIZABETH DUNN	
DESCRIPTION	BY	APPROVED	DATE	FILED	PROJECT NUMBER
ORIGINAL	XX/XX				XXXX-XXXX
ADDENDUM A	XX/XX				COORDINATOR
					XXXXXXXX-XXXXXX
					COORDINATOR
					XXXXXX-XX-D
CONTRACTOR	DATE STARTED	DATE COMPLETED			
INSPECTOR					

 VOID

ADDENDUM A

City of San Diego

CITY CONTACT: Antoinette Sanfilippo, Contract Specialist, **Email:** ASanfilippo@sandiego.gov

Phone No. (619) 533-3439

J. Talamayan / M. Jirjis Nakasha / M. L. Wenceslao

ADDENDUM B



FOR

PIPELINE REHABILITATION AX-1

BID NO.:	<u>K-20-1898-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-18203</u>
CLIENT DEPARTMENT:	<u>2000</u>
COUNCIL DISTRICT:	<u>7</u>
PROJECT TYPE:	<u>JA</u>

BID DUE DATE:

**2:00 PM
JANUARY 30, 2020**

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:

S. Bose
For City Engineer

1/17/20
Date

Seal:



A. CHANGES TO CONTRACT DOCUMENTS

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

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

B. NOTICE INVITING BIDS

1. To Section 3, Estimated Construction Costs, page 4, **DELETE** in its entirety and **SUBSTITUTE** with the following:

3. ESTIMATED CONSTRUCTION COST: The City's estimated construction cost for this project is **\$3,870,000.**

C. ADDITIONAL CHANGES

1. The following are additional changes to the Line Items in the PlanetBids Tab:

For clarity where applicable, **ADDITIONS**, if any, have been **Underlined** and **DELETIONS**, if any, have been **~~Stricken out.~~**

Section	Item Code	Description	UoM	Quantity	Payment Reference
Main Bid	238990	Sewer Lateral Drop Connection and Cleanout	EA	49	7-3.1

James Nagelvoort, Director
Public Works Department

Dated: *January 17, 2020*
San Diego, California

JN/MJN/mlw/wf

Bid Results

Bidder Details

Vendor Name Southwest Pipeline and Trenchless Corp.
Address 22118 S. Vermont Avenue
 Torrance, CA 90502
 United States
Respondee Justin Duchaineau
Respondee Title President
Phone 310-329-8717 Ext. 104
Email justin@swpipeline.com
Vendor Type CADIR,PQUAL
License # 773862
CADIR 1000002176

Bid Detail

Bid Format Electronic
Submitted January 30, 2020 1:31:31 PM (Pacific)
Delivery Method
Bid Responsive
Bid Status Submitted
Confirmation # 198172
Ranking 0

Respondee Comment

Buyer Comment

Attachments

File Title	File Name	File Type
Contractors Certification of Pending Action	Contractor's Certification of Pending Action.pdf	Contractors Certification of Pending Actions
Mandatory Disclosure of Business Interest	Mandatory Disclosure of Business Interest Form.pdf	Mandatory Disclosure of Business Interests
Debarment and Suspension Cert	Debarment Use.pdf	Debarment and Suspension Certification
Contractor's Experience	Contractor's Experience.pdf	Contractor's Experience and Past Project Documentation
Manufacturer Authorized Installer Certificate	Authorized Installer Certificates.pdf	Manufacturer Authorized Installer Certification
Bid Bond	Bid Bond.pdf	Bid Bond

Line Items

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
	Main Bid					
1	Bonds (Payment and Performance)					
	524126	LS	1	\$28,000.00	\$28,000.00	
2	Remote Control Camera Inspection (EOC Type II)					
	334290	AL	1	\$20,000.00	\$20,000.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
3	Sewage Bypass and Pumping Plan (Diversion Plan)					
	237110	LS	1	\$2,500.00	\$2,500.00	
4	Suspension of Work - Resources					
	541690	DAY	5	\$1,500.00	\$7,500.00	
5	Mobilization					
	237310	LS	1	\$35,000.00	\$35,000.00	
6	Field Orders (EOC Type II)					
		AL	1	\$29,700.00	\$29,700.00	
7	Asphalt Pavement Repair					
	237310	TON	44	\$100.00	\$4,400.00	
8	Subgrade Imported Backfill					
	237310	TON	125	\$25.00	\$3,125.00	
9	Rubber Polymer Modified Slurry (RPMS) Type I					
	237310	SF	2280	\$10.00	\$22,800.00	
10	Rubber Polymer Modified Slurry (RPMS) Type II					
	237310	SF	2280	\$10.00	\$22,800.00	
11	Pavement Restoration Adjacent to Trench					
	237310	SF	1805	\$5.00	\$9,025.00	
12	Crack Seal					
	237310	LB	3	\$500.00	\$1,500.00	
13	Temporary Resurfacing					
	237310	TON	100	\$1.00	\$100.00	
14	Manholes (5 ft x 3ft)					
	237110	EA	6	\$12,500.00	\$75,000.00	
15	Connection to Existing Manhole and Rechanneling					
	237110	EA	1	\$1,550.00	\$1,550.00	
16	Sewer Lateral and Cleanout (4-Inch, Street)					
	237110	EA	49	\$3,600.00	\$176,400.00	
17	Sewer Lateral and Cleanout (6-Inch, Street)					
	237110	EA	2	\$4,000.00	\$8,000.00	
18	Sewer Main Cleanout					
	237110	EA	10	\$5,500.00	\$55,000.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
19	Cleaning and Video Inspection of Existing Pipelines and Culverts					
	237110	LF	27846	\$1.50	\$41,769.00	
20	Cleaning and Video Inspection of Existing Laterals					
	237110	LF	3425	\$1.00	\$3,425.00	
21	Video Inspection of Pipelines and Culverts for Acceptance					
	237110	LF	27846	\$1.00	\$27,846.00	
22	Survey Monument					
	238990	EA	1	\$1,500.00	\$1,500.00	
23	Removal of Traffic Striping and Curb Markings					
	237310	LF	200	\$3.00	\$600.00	
24	Removal and Replacement of Existing Paint Striping					
	237310	LS	1	\$500.00	\$500.00	
25	Painted Traffic Stripes and Painted Curb Markings					
	237310	LF	200	\$3.00	\$600.00	
26	Removal and Replacement of Existing Thermoplastic Striping and Markings					
	237310	LS	1	\$1,000.00	\$1,000.00	
27	Continental Crosswalks					
	237310	SF	160	\$5.00	\$800.00	
28	Video Recording of Existing Conditions					
	238990	LS	1	\$1,500.00	\$1,500.00	
29	Additional Pavement Removal and Disposal					
	237310	CY	50	\$50.00	\$2,500.00	
30	Remove and Replace Miscellaneous Hardscape with Topsoil					
	238910	SF	40	\$100.00	\$4,000.00	
31	Adjust Existing Manhole Frame and Cover to Grade					
	237310	EA	6	\$2,000.00	\$12,000.00	
32	Adjust Existing Survey Monument to Grade					
	237310	EA	1	\$2,000.00	\$2,000.00	
33	Point Repair for Existing Sewer Main (8-Inch)					
	237110	EA	6	\$4,400.00	\$26,400.00	
34	Point Repair for Existing Sewer Main (12-Inch)					
	237110	EA	2	\$4,800.00	\$9,600.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
35	Additional Point Repair for Existing Sewer Main (8- Inch)					
	237110	LF	40	\$75.00	\$3,000.00	
36	Additional Point Repair for Existing Sewer Main (12-Inch)					
	237110	LF	40	\$100.00	\$4,000.00	
37	Rehabilitate Sewer Main (8-Inch)					
	237110	LF	26965	\$29.00	\$781,985.00	
38	Rehabilitate Sewer Main (12-Inch)					
	237110	LF	881	\$39.00	\$34,359.00	
39	Service Lateral Connection					
	237110	EA	489	\$865.00	\$422,985.00	
40	Rehabilitate Existing Manhole					
	237110	EA	39	\$1,550.00	\$60,450.00	
41	Service Lateral Rehabilitation with Cleanout up to 7 ft in Depth					
	237110	EA	160	\$1,850.00	\$296,000.00	
42	Service Lateral Rehabilitation with Cleanout greater than 7 ft in Depth					
	237110	EA	329	\$1,600.00	\$526,400.00	
43	Service Lateral Rehabilitation with Manually Excavated Cleanout up to 7 ft in Depth					
	237110	EA	1	\$5,500.00	\$5,500.00	
44	Service Lateral Rehabilitation with Manually Excavated Cleanout Greater than 7 ft in Depth					
	237110	EA	3	\$6,500.00	\$19,500.00	
45	MTS Right of Entry Permit (EOC Type I)					
	237110	AL	1	\$20,000.00	\$20,000.00	
46	Traffic Control and Working Drawings					
	541330	LS	1	\$15,000.00	\$15,000.00	
47	WPCP Development					
	541330	LS	1	\$600.00	\$600.00	
48	WPCP Implementation					
	237310	LS	1	\$5,000.00	\$5,000.00	
Subtotal					\$2,833,219.00	
Total					\$2,833,219.00	

Subcontractors

Name & Address	Description	License Num	CADIR	Amount	Type
Piperin Corporation 510 Venture Street Escondido, CA 92029 United States	Constructor- Main Line Open Cut	964028	1000000485	\$361,000.00	PQUAL,SLBE,CADIR
Easy Flow 14275 Crystal View Lane Poway, CA 92064 United States	Constructor- Lateral Rehab, Lateral Cleanouts, Clean and CCTV	960845 PlanetBids, Inc.	1000010925	\$904,592.00	CADIR,CAU,MALE,S LBE

Bid Results

Name & Address	Description	License Num	CADIR	Amount	Type
American Asphalt South, Inc. PO Box 310036 14436 Santa Ana Ave Fontana, CA 92331 United States	Constructor-RPMS, Crack Seal	784969	1000000645	\$43,566.00	CAU,MALE,CADIR,P QUAL
Zebron Contracting, Inc P.O. Box 2874 Newport Beach, CA 92659 United States	Constructor- MH Rehab	855170	1000004993	\$56,555.00	

Line Items

Item Num	Item Code	Description	Unit of Measure	Reference	Quantity	Line Total
1	524126	Bonds (Payment and Performance)	LS	1-7.2.1	1	\$28,000.00
2	334290	Remote Control Camera Inspection (EOC Type II)	AL	3-5.1.6	1	\$20,000.00
3	237110	Sewage Bypass and Pumping Plan (Diversion Plan)	LS	3-12.5.4	1	\$2,500.00
4	541690	Suspension of Work - Resources	DAY	6-6.2.1.1 OR 6-6.2	5	\$7,500.00
5	237310	Mobilization	LS	7-3.4.1	1	\$35,000.00
6		Field Orders (EOC Type II)	AL	7-3.9	1	\$29,700.00
7	237310	Asphalt Pavement Repair	TON	301-1.7	44	\$4,400.00
8	237310	Subgrade Imported Backfill	TON	301-1.7	125	\$3,125.00
9	237310	Rubber Polymer Modified Slurry (RPMS) Type I	SF	302-4.12.4	2280	\$22,800.00
10	237310	Rubber Polymer Modified Slurry (RPMS) Type II	SF	302-4.12.4	2280	\$22,800.00
11	237310	Pavement Restoration Adjacent to Trench	SF	302-5.2.1	1805	\$9,025.00
12	237310	Crack Seal	LB	302-15.5	3	\$1,500.00

13	237310	Temporary Resurfacing	TON	306-15.9	100	\$100.00
14	237110	Manholes (5 ft x 3ft)	EA	306-16.6	6	\$75,000.00
15	237110	Connection to Existing Manhole and Rechanneling	EA	306-16.6	1	\$1,550.00
16	237110	Sewer Lateral and Cleanout (4-Inch, Street)	EA	306-17.2	49	\$176,400.00
17	237110	Sewer Lateral and Cleanout (6-Inch, Street)	EA	306-17.2	2	\$8,000.00
18	237110	Sewer Main Cleanout	EA	306-17.2	10	\$55,000.00
19	237110	Cleaning and Video Inspection of Existing Pipelines and Culverts	LF	306-18.7	27846	\$41,769.00
20	237110	Cleaning and Video Inspection of Existing Laterals	LF	306-18.7	3425	\$3,425.00
21	237110	Video Inspection of Pipelines and Culverts for Acceptance	LF	306-18.7	27846	\$27,846.00
22	238990	Survey Monument	EA	309-4	1	\$1,500.00
23	237310	Removal of Traffic Striping and Curb Markings	LF	314-2.3	200	\$600.00
24	237310	Removal and Replacement of Existing Paint Striping	LS	314-4.3.7	1	\$500.00

25	237310	Painted Traffic Stripes and Painted Curb Markings	LF	314-4.3.7	200	\$600.00
26	237310	Removal and Replacement of Existing Thermoplastic Striping and Markings	LS	314-4.4.6	1	\$1,000.00
27	237310	Continental Crosswalks	SF	314-4.4.6	160	\$800.00
28	238990	Video Recording of Existing Conditions	LS	400-1.1.1	1	\$1,500.00
29	237310	Additional Pavement Removal and Disposal	CY	401-7	50	\$2,500.00
30	238910	Remove and Replace Miscellaneous Hardscape with Topsoil	SF	401-7	40	\$4,000.00
31	237310	Adjust Existing Manhole Frame and Cover to Grade	EA	403-5	6	\$12,000.00
32	237310	Adjust Existing Survey Monument to Grade	EA	403-5	1	\$2,000.00
33	237110	Point Repair for Existing Sewer Main (8-Inch)	EA	500-4.7	6	\$26,400.00
34	237110	Point Repair for Existing Sewer Main (12-Inch)	EA	500-4.7	2	\$9,600.00

35	237110	Additional Point Repair for Existing Sewer Main (8-Inch)	LF	500-4.7	40	\$3,000.00
36	237110	Additional Point Repair for Existing Sewer Main (12-Inch)	LF	500-4.7	40	\$4,000.00
37	237110	Rehabilitate Sewer Main (8-Inch)	LF	500-12	26965	\$781,985.00
38	237110	Rehabilitate Sewer Main (12-Inch)	LF	500-12	881	\$34,359.00
39	237110	Service Lateral Connection	EA	501-9	489	\$422,985.00
40	237110	Rehabilitate Existing Manhole	EA	502-8	39	\$60,450.00
41	237110	Service Lateral Rehabilitation with Cleanout up to 7 ft in Depth	EA	503-6	160	\$296,000.00
42	237110	Service Lateral Rehabilitation with Cleanout greater than 7 ft in Depth	EA	503-6	329	\$526,400.00
43	237110	Service Lateral Rehabilitation with Manually Excavated Cleanout up to 7 ft in Depth	EA	503-6	1	\$5,500.00

44	237110	Service Lateral Rehabilitation with Manually Excavated Cleanout Greater than 7 ft in Depth	EA	503-6	3	\$19,500.00
45	237110	MTS Right of Entry Permit (EOC Type I)	AL	600-5	1	\$20,000.00
46	541330	Traffic Control and Working Drawings	LS	601-7	1	\$15,000.00
47	541330	WPCP Development	LS	1001-4.2	1	\$600.00
48	237310	WPCP Implementation	LS	1001-4.2	1	\$5,000.00
						\$2,833,219.00
						\$2,833,219.00