

# City of San Diego

CONTRACTOR'S NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_  
CITY CONTACT: Eleida Felix Yackel - Contract specialist, Email: [EFelixYackel@sandiego.gov](mailto:EFelixYackel@sandiego.gov)  
Phone No. (619) 533-3449, Fax No. (619) 533-3633  
CGascon/BDoringo/LD

## CONTRACT DOCUMENTS

## FOR



## PIPELINE REHABILITATION V-1

VOLUME 1 OF 2

BID NO.: \_\_\_\_\_ **K-14-5932-DBB-3**  
SAP NO. (WBS/IO/CC): \_\_\_\_\_ **B-13013**  
CLIENT DEPARTMENT: \_\_\_\_\_ **2011**  
COUNCIL DISTRICT: \_\_\_\_\_ **2**  
PROJECT TYPE: \_\_\_\_\_ **JA**

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

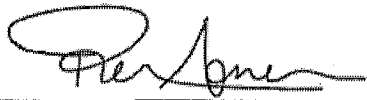
- PHASED-FUNDING
- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.

**BID DUE DATE:**

**2:00 PM  
AUGUST 13, 2013  
CITY OF SAN DIEGO  
PUBLIC WORKS DEPARTMENT  
1010 SECOND AVENUE, SUITE 1400, MS 614C  
SAN DIEGO, CA 92101**

# ENGINEER OF WORK

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



For City Engineer

6/25/2013

Date

Seal



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# CITY OF SAN DIEGO, CALIFORNIA

## NOTICE INVITING BIDS

1. **RECEIPT AND OPENING OF BIDS:** Bids will be received at the Public Works Contracting Group at the location, time, and date shown on the cover of these specifications for performing work on **Pipeline Rehabilitation V-1** (Project).
2. **DESCRIPTION OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described below:

The work involves the rehabilitation of approximately 7.95 miles of existing VC sewer main identified by Public Utilities Department. The project also includes point repairs, manhole replacement, manhole rehabilitation, construction of cleanouts, and the rehabilitation of existing sewer laterals.

**2.1.** The Work shall be performed in accordance with:

**2.1.1.** This Notice Inviting Bids inclusive.

3. **EQUAL OPPORTUNITY**

**3.1.** To The WHITEBOOK, Chapter 10, Sections D and E, DELETE in their entirety and SUBSTITUTE with the following:

**D. CITY'S EQUAL OPPORTUNITY COMMITMENT.**

**1. Nondiscrimination in Contracting Ordinance.**

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

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

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

2. **Disclosure of Discrimination Complaints.** As part of its Bid or Proposal, the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.



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

**E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.**

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

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

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

2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05), within 10 Working Days after receipt by the Bidder of Contract forms to the City for approval as specified in the Notice of Intent to Award letter from the City.
3. If a Work Force Report is submitted, and the City determines there are under-representations when compared to County Labor Force Availability data, the selected Bidder shall submit an Equal Employment Opportunity Plan.
4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:

1. The Contractor shall maintain a working environment free of discrimination, harassment, intimidation and coercion at all sites and in all facilities at which the Contractor's employees are assigned to work.
2. The Contractor reviews its EEO Policy, at least annually, with all on-site supervisors involved in employment decisions.
3. The Contractor disseminates and reviews its EEO Policy with all employees at least once a year, posts the policy statement and EEO posters on all company bulletin boards and job sites, and documents every dissemination, review and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.
4. The Contractor reviews, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintains written documentation of these reviews.
5. The Contractor discusses its EEO Policy Statement with subcontractors with whom it anticipates doing business, includes the EEO Policy Statement in its subcontracts, and provides such documentation to the City upon request.
6. The Contractor documents and maintains a record of all bid solicitations and outreach efforts to and from subcontractors, contractor associations and other business associations.
7. The Contractor disseminates its EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit, maintains files documenting these efforts, and provides copies of these advertisements to the City upon request.
8. The Contractor disseminates its EEO Policy to union and community organizations.
9. The Contractor provides immediate written notification to the City when any union referral process has impeded the Contractor's efforts to maintain its EEO Policy.
10. The Contractor maintains a current list of recruitment sources, including those outreaching to people of color and women, and provides written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.
11. The Contractor maintains a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.

12. The Contractor encourages all present employees, including people of color and women employees, to recruit others.
13. The Contractor maintains all employment selection process information with records of all tests and other selection criteria.
14. The Contractor develops and maintains documentation for on-the-job training opportunities, participates in training programs, or both for all of its employees, including people of color and women, and establishes apprenticeship, trainee, and upgrade programs relevant to the Contractor's employment needs.
15. The Contractor conducts, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourages all employees to seek and prepare appropriately for such opportunities.
16. The Contractor ensures the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

#### 4. SUBCONTRACTING PARTICIPATION PERCENTAGES.

4.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1. SLBE participation	<b>4.7 %</b>
2. ELBE participation	<b>10.6 %</b>
3. Total mandatory participation	<b>15.3 %</b>

4.2. The Bidders are strongly encouraged to attend the Pre-Bid Meeting to better understand the Good Faith Effort requirements of this contract. See the City's document titled "SLBE Program, Instructions For Bidders Completing The Good Faith Effort Submittal" available at: <http://www.sandiego.gov/eoc/>.

4.3. The Bid will be declared non-responsive if the Bidder fails the following mandatory conditions:

4.3.1. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR.

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

**5. PRE-BID MEETING:**

- 5.1.** There will be a Pre-Bid Meeting to discuss the scope of the Project, bidding requirements, pre-qualification process, and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracting Group, Conference Room at 1010 Second Avenue, Suite 1400, San Diego, CA 92101 **at 10:00 A.M., on July 23, 2013.**
- 5.2.** All potential bidders are encouraged to attend.
- 5.3.** To request a copy of the agenda on an alternative format, or to request a sign language or oral interpreter for this meeting, call the Public Works Contracting Group at (619) 533-3450 at least 5 Working Days prior to the Pre-Bid Meeting to ensure availability.

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

- 6.1.** **Prior** to the Award of the Contract or each Task Order, you and your Subcontractors and Suppliers **must** register with Prism®, the City's web-based contract compliance portal at:  
  
<https://pro.prismcompliance.com/default.aspx>.
- 6.2.** The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

**7. CONSTRUCTION COST:** The City's estimated construction cost for this contract is **\$6,300,000.**

**8. LOCATION OF WORK:** See the location map attached.

**9. CONTRACT TIME:** The Contract Time for completion of the Work shall be **309 Working Days.**

**10. CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.

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

<b>Option</b>	<b>Classification(s)</b>
1	CLASS A
2	CLASS C34

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

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

**12. WAGE RATES:** Prevailing wages are not applicable to this contract.

**13. INSURANCE REQUIREMENTS:**

**13.1.** 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.

**13.2.** Refer to sections 7-3, “LIABILITY INSURANCE”, and 7-4, “WORKERS’ COMPENSATION INSURANCE” of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

**14. PREQUALIFICATION OF CONTRACTORS:**

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

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

**14.2.** The completed questionnaire, financial statement, and bond letter or a copy of the contractor’s SLBE-ELBE certification and bond letter, must be submitted no later than 2 weeks prior to the bid opening to the Public Works Department - Engineering & Capital Project, Prequalification Program, 1010 Second Avenue, Suite 1400, San Diego, CA 92101. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or [dstucky@sandiego.gov](mailto:dstucky@sandiego.gov).

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

Title	Edition	Document Number
Standard Specifications for Public Works Construction (“The GREENBOOK”)	2012	PITS070112-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)*	2012	PITS070112-02
City of San Diego Standard Drawings*	2012	PITS070112-03
Caltrans Standard Specifications	2010	PITS070112-04
Caltrans Standard Plans	2010	PITS070112-05
California MUTCD	2012	PITS070112-06

Title	Edition	Document Number
City Standard Drawings - Updates Approved For Use (when specified)*	Varies	Varies
Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause Dated 09-11-84	1984	769023
NOTE: Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a>		

- 16. CITY'S RESPONSES AND ADDENDA:** The City at its option, may respond to any or all questions submitted in writing, via letter, or FAX in the form of an addendum. No oral comment shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addendum are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda on the form provided for this purpose in the Bid.
- 17. 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.
- 18. CONTRACT PRICING FORMAT:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth in the Bid Proposal Form(s), Volume 2.
- 19. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.
- 20. AWARD PROCESS:**
- 20.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
  - 20.2.** 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.
  - 20.3.** This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.
- 21. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The WHITEBOOK and as amended in the SSP which requires the Contractor to self perform the amount therein stipulated. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.

- 22. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracting Group.
- 23. QUESTIONS:**
- 23.1.** The Director (or designee), of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. All questions related to this procurement action shall be addressed to the Public Works Contracting Group, Attention Contract Specialist, 1010 Second Avenue, Suite 1400, San Diego, California, 92101, and Telephone No. (619) 533-3450.
- 23.2.** Questions received less than 14 days prior to the date for opening of Bids may not be answered.
- 23.3.** Interpretations or clarifications considered necessary by the City in response to such questions will be issued by Addenda which will be uploaded to the City's online bidding service.
- 23.4.** Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. It is the Bidder's responsibility to become informed of any Addenda that have been issued and to include all such information in its Bid.
- 24. ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in **more** than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.
- 25. SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms with the Notice Inviting Bids and Contract forms.
- 26. PROPOSAL FORMS:** Bid shall be made only upon the Bidding Documents i.e., Proposal form attached to and forming a part of the specifications. The signature of each person signing shall be in longhand.
- 26.1.** Bidder shall complete and submit all pages in the "Bidding Document" Section (see Volume 2) as their Bid per the schedule given under "Required Documents Schedule," (see Volume 1). Bidder is requested to retain for their reference other portions of the Contract Documents that are not required to be submitted with the Bid. The entire specifications for the bid package do not need to be submitted with the bid.

- 26.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.
- 26.3. Bids and certain other forms and documents as specified in the Volume 2 of 2 of the Contract Documents shall be enclosed in a sealed envelope and shall bear the title of the work and name of the Bidder and the appropriate State Contractors License designation which the Bidder holds.
- 26.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.

**27. BIDDERS' GUARANTEE OF GOOD FAITH (BID SECURITY):**

- 27.1. With the exception of the contracts valued \$5,000 or less, JOC and Design-Build contracts, and contracts subject to the Small and Local Business Program of \$250,000 or less e.g., ELBE contracts, each Bidder shall accompany its Bid with either a cashier's check upon some responsible bank, or a check upon such bank properly certified or an approved corporate surety bond payable to the City of San Diego, for an amount of not less than 10% of the aggregate sum of the Bid, which check or bond, and the monies represented thereby shall be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into such contract and furnish the required final bonds.
- 27.2. The Bidder agrees that in case of Bidder's refusal or failure to execute this contract and give required final bonds, the money represented by a cashier's or certified check shall remain the property of the City, and if the Bidder shall fail to execute this contract, the Surety agrees that it will pay to the City damages which the City may suffer by reason of such failure, not exceeding the sum of 10% of the amount of the Bid.
- 27.3. A Bid received without the specified bid security will be rejected as being **non-responsive**.

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

- 28.1. This contract may be awarded to the lowest responsible and reliable Bidder.
- 28.2. Bidders shall complete the entire Bid schedule (also referred to as "schedule of prices" or Proposal form). Incomplete price schedules will be rejected as being non-responsive.
- 28.3. The City reserves the right to reject any or all Bids, and to waive any informality or technicality in Bids received and any requirements of these specifications as to bidding procedure.
- 28.4. Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City from the Bidder within 3 Working Days, excluding Saturdays, Sundays, and state holidays, after the opening of Bids, of written notice which includes proof of honest, credible, clerical error of material nature, free from fraud or fraudulent intent, and of evidence that reasonable care was observed in the preparation of the Bid.



- 28.5. A non-selected Bidder may protest award of the Contract to the selected Bidder by submitting a written “Notice of Intent to Protest” including supporting documentation which shall be received by Public Works Contracting Group no later than 10 days after the City’s announcement of the selected Bidder or no later than 10 days from the date that the City issues notice of designation of a Bidder as non-responsible in accordance with San Diego Municipal Code Chapter 2, § 22.3029, “Protests of Contract Award.”
- 28.6. The City of San Diego will not discriminate with regard to race, religious creed, color, national origin, ancestry, physical handicap, marital status, sex or age, in the award of contracts.
- 28.7. Each Bid package properly executed as required by these specifications shall constitute a firm offer, which may be accepted by the City within the time specified in the Proposal.
- 28.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of any proposed alternates, additive items or options, at its discretion that will be disclosed in the Volume 2 of 2.

**29. BID RESULTS:**

- 29.1. The Bid opening by the City shall constitute the public announcement of the Apparent Low Bidder. In the event that the Apparent Low Bidder is subsequently deemed non-responsive or non-responsible, a public announcement will be posted in the City’s web page: <http://www.sandiego.gov/cip/index.shtml>, with the name of the newly designated Apparent Low Bidder.
- 29.2. To obtain Bid results, either attend Bid opening, review the results on the City’s web site, or provide a self-addressed, stamped envelope, referencing Bid number, and Bid tabulation will be mailed to you upon verification of extensions. Bid results cannot be given over the telephone.

**30. THE CONTRACT:**

- 30.1. 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.
- 30.2. 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.

- 30.3.** 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.
- 30.4.** 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.
- 30.5.** The award of the Contract is contingent upon the satisfactory completion of the above mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
- 31. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 32. CITY STANDARD PROVISIONS.** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 32.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 32.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 32.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 32.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 32.5.** 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.
- 32.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).

32.7. The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

**33. PRE-AWARD ACTIVITIES:**

33.1. The selected contractor by the City to execute a contract for this Work shall provide the information required within the time specified in "Required Documents," of this bid package. Failure to provide the information within the time specified may result in the Bid being rejected as **non-responsive**.

33.2. If the Bid is rejected as non-responsive, the selected contractor by the City to execute a contract for this Work shall forfeit the required Bid. The decision that the selected contractor by the City to execute a contract for this Work is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

**34. PHASED FUNDING:**

34.1. For phased funded contracts, the City typically secures enough funds for the first 90 days of the contract prior to award. Within 10 Working Days after Bid opening date the Apparent Low Bidder must contact the Project Manager to discuss fund availability and the duration of the first phase and submit the Pre-Award Schedule to the City for approval and preparation of the first Phased Funding Schedule Agreement.

34.2. The Apparent Low Bidder will be required to provide a Pre-award Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT" prior to award of Contract.

34.3. If the Bid submitted by the Apparent Low Bidder is rejected by the City for any reason, then within 5 Working Days after receiving notice, the next Apparent Low Bidder must provide the Pre-Award Schedule. This process will continue until the City has selected the Apparent Low Bidder or have decided to reject all Bids.

34.4. The first Phased Funding Schedule Agreement must show the fund availability for the first phase. Within 22 Working Days from the date of the Bid Opening or notice to the next Apparent Low Bidder (whichever occurs last) and once a Pre-Award Schedule is accepted by the City, the City will present the first Phased Funding Schedule Agreement to you when you are selected as the Apparent Low Bidder as defined in the City's Municipal Code, §22.3003.

34.5. At the City's request, you must meet with the City's project manager before execution of the first Phased Funding Schedule Agreement to discuss his or her comments and requests for revision to the Pre-Award Schedule.

34.6. Your failure to perform the following may result in the Bid being rejected as **non-responsive**:

1. meet with the City's project manager, if requested to do so, to discuss and respond to the City's comments regarding the Pre-Award Schedule,

2. revise the Pre-Award Schedule as requested by the City within the specified 22 Working Days timeframe, or
3. execute the first Phased Funding Schedule Agreement within a day after receipt.

**35. REQUIRED DOCUMENT SCHEDULE:**

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

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

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

<b>ITEM</b>	<b>WHEN DUE</b>	<b>FROM</b>	<b>DOCUMENT TO BE SUBMITTED</b>
1.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid
2.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid Bond
3.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106
4.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
5.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
6.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
7.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
8.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SLBE Good Faith Efforts Documentation
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA60 – List of Work Made Available

<b>ITEM</b>	<b>WHEN DUE</b>	<b>FROM</b>	<b>DOCUMENT TO BE SUBMITTED</b>
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
11.	WITHIN 5 WORKING DAYS FO PRE-CONSTRUCTION MEETING	APPARENT LOW BIDDER	Contractor's Experience and Past Project Documentation. See Sections 500
12.	WITHIN 5 WORKING DAYS FO PRE-CONSTRUCTION MEETING	APPARENT LOW BIDDER	Manufacturer Certification per Section 500-1.1.2.1
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Phased Funding Schedule Agreement (when required)
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Pre-Award Schedule (Phased Funded Contracts Only)
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principal individual owners of the Apparent Low Bidder
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> <li>• Joint Venture Agreement</li> <li>• Joint Venture License</li> </ul>
17.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
20.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
21.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace

<b>ITEM</b>	<b>WHEN DUE</b>	<b>FROM</b>	<b>DOCUMENT TO BE SUBMITTED</b>
22.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
23.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

**CONTRACT FORMS**  
**AGREEMENT**

# CONTRACT FORMS AGREEMENT

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## CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and SOUTHWEST PIPELINE & TRENCHLESS CORP., herein called "Contractor" for construction of Pipeline Rehabilitation V-1 ; Bid No. K-14-5932-DBB-3; in the amount of THREE MILLION SEVEN HUNDRED TWENTY ONE THOUSAND THREE HUNDRED THIRTY-THREE DOLLARS AND EIGHTY CENTS (\$3,721,333.80), which is comprised of the Base Bid alone.

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

1. The following are incorporated into this contract as though fully set forth herein:
  - (a) The attached Faithful Performance and Payment Bonds.
  - (b) The attached Proposal included in the Bid documents by the Contractor.
  - (c) Reference Standards listed in the Notice Inviting Bids and the Supplementary Special Provisions (SSP).
  - (d) Phase Funding Schedule Agreement.
  - (e) That certain documents entitled Pipeline Rehabilitation V-1, on file in the office of the Public Works Department as Document No. B-13013, 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 V-1, Bid Number K-14-5932-DBB-3, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.



**CONTRACT FORMS (continued)**


**AGREEMENT**


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

**THE CITY OF SAN DIEGO**

**APPROVED AS TO FORM AND LEGALITY**

Jan I. Goldsmith, City Attorney

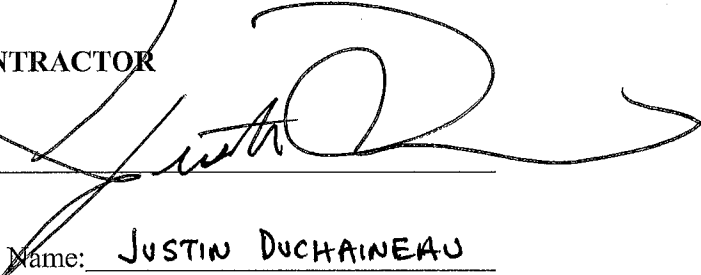
F By:   
Paul Chopin  
Principal Contract Specialist  
Public Works Contracting  
F \_\_\_\_\_  
ks

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

Date: 11/7/13

Date: 11/7/13

**CONTRACTOR**

By:   
Print Name: JUSTIN DUCHAINEAU

Title: PRESIDENT

Date: 9-6-2013

City of San Diego License No.: B2003006118

State Contractor's License No.: 773862-A

**CONTRACT/AGREEMENT  
ATTACHMENTS**

## CONTRACT ATTACHMENT PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

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

SOUTHWEST PIPELINE & TRENCHLESS CORP., 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 THREE MILLION SEVEN HUNDRED TWENTY ONE THOUSAND THREE HUNDRED THIRTY-THREE DOLLARS AND EIGHTY CENTS (\$3,721,333.80) for the faithful performance of the annexed contract, and in the sum of THREE MILLION SEVEN HUNDRED TWENTY ONE THOUSAND THREE HUNDRED THIRTY-THREE DOLLARS AND EIGHTY CENTS (\$3,721,333.80) for the benefit of laborers and materialmen designated below.

#### Conditions:

If the Principal shall faithfully perform the annexed contract **Pipeline Rehabilitation V-1**, Bid Number **K-14-5932-DBB-3**, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

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

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

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

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

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

Dated September 5, 2013

Approved as to Form and Legality

Southwest Pipeline and Trenchless Corp.

Principal

By 

JUSTIN DUCHAINEAU

Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By 

Deputy City Attorney

Liberty Mutual Insurance Company

Surety

By 

Noemi Quiroz, Attorney-in-fact

Approved:

By: 

Paul Chopin  
Principal Contract Specialist  
Public Works Contracting

CS

330 N. Brand Blvd., Ste 500

Local Address of Surety

Glendale, CA 91203

Local Address (City, State) of Surety

(818) 956-4250

Local Telephone No. of Surety

Premium \$ 28,733.00

Bond No. 024053808

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

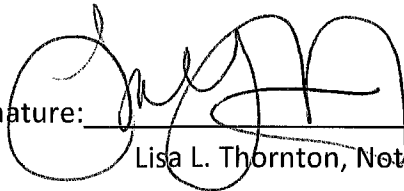
State of California )  
 ) ss  
County of Los Angeles )

On September 5, 2013, 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:  \_\_\_\_\_  
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.

American Fire and Casualty Company  
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company  
West American Insurance Company

### POWER OF ATTORNEY

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

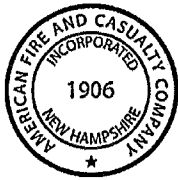
Principal Name: Southwest Pipeline and Trenchless Corp.

Obligee Name: City of San Diego

Surety Bond Number: 024053808

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 1<sup>st</sup> day of December, 2012.



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

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

STATE OF WASHINGTON ss  
COUNTY OF KING

On this 1<sup>st</sup> day of December, 2012, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

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



By: *KD Riley*  
KD Riley, Notary Public, Notary Public

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

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

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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 5<sup>th</sup> day of September, 2013.



By: *David M. Carey*

**CONTRACTOR CERTIFICATION**

---

**DRUG-FREE WORKPLACE**

**PROJECT TITLE:** Pipeline Rehabilitation V-1

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

**SOUTHWEST PIPELINE AND  
TRENCHLESS CORP.**

(Name under which business is conducted)

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

Signed 

Printed Name JUSTIN DUCHAINEAU

Title PRESIDENT

# CONTRACTOR CERTIFICATION

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## AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

**PROJECT TITLE:** Pipeline Rehabilitation V-1

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that;

**SOUTHWEST PIPELINE AND  
TRENCHLESS CORP.**

(Name under which business is conducted)

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

Signed 

Printed Name

JUSTIN DUCHAINEAU

Title

PRESIDENT



# CONTRACTOR CERTIFICATION

## CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: Pipeline Rehabilitation V-1

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

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

Dated this 6TH Day of SEPTEMBER, 2013.

Signed 

Printed Name JUSTIN DUCHAINEAU

Title PRESIDENT

**AFFIDAVIT OF DISPOSAL**

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

**Pipeline Rehabilitation V-1**

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-14-5932-DBB-3**; SAP No. (WBS/IO/CC) **B-13013**; 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

**PHASED FUNDING SCHEDULE AGREEMENT**

**Check one:**

- First Phased Funding Schedule Agreement  
 Final Phased Funding Schedule Agreement

Particulars left blank in this sample, the total number of phases, and the amounts assigned to each phase will be filled with funding specific information as the result of the Pre-Award Schedule, and subsequent Schedules, required by these Bid Documents and approved by the City.

**BID NUMBER: K-14-5932-DBB-3**

**CONTRACT OR TASK TITLE: PIPELINE REHABILITATION V-1**

**CONTRACTOR: Southwest Pipeline & Trenchless Corporation**

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Construction Services (Rehabilitate existing sewer mains, point repairs, manhole replacement and rehabilitation, construct cleanouts and rehabilitation of existing laterals	NTP	08/29/2014	\$2,604,934.80
2	Construction Services (Rehabilitate existing sewer mains, point repairs, manhole replacement and rehabilitation, construct cleanouts and rehabilitation of existing laterals	08/30/2014	NOC	\$1,116,399.00
Total				\$3,721,333.80

Notes:

- (1) City Supplement 9-3.6, "PHASE 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 PHASE FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by a written modification to the CONTRACT.

OWNER: CITY OF SAN DIEGO

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

By: Chris Gascon & Public Works

By: Justin P. Duchaineau

Date: 9/19/13

Date: 9/11/13

- END OF PHASE FUNDING SCHEDULE -

**SUPPLEMENTARY SPECIAL PROVISIONS (SSP)**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

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

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

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

#### **1-2 TERMS AND DEFINITIONS.**

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

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

### **SECTION 2 - SCOPE AND CONTROL OF WORK**

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

1. You must perform, with your own organization, Contract work amounting to at least 25% of the base bid alone or base bid and any additive or deductive alternate(s) that together when added or deducted form the basis of award.
2. The self performance percentage requirement will be waived for contracts when a “B” License is required or allowed.

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

Other adjacent City projects are scheduled for construction for the same time period. See appendix for approximate locations. Coordinate the Work with the adjacent projects as listed below:

- a) Sewer & Water Main Replacement Group 693, Hung Huynh (619) 235-1979
- b) Sewer Main Replacement Buchanan Canyon-B, Jericho Gallardo, (619) 533-7523
- c) Storm Drain Lining Group 1A, Location F Casey Crown, (619) 533-5485

## SECTION 4 - CONTROL OF MATERIALS

### 4-1.6 Trade Names or Equals. ADD the following:

You must submit your list of proposed substitutions for “an equal” (“or equal”) item(s) **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on a City form when provided by the City.

## SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

### 6-2.1 Moratoriums. To the City Supplements, ADD the following:

Do not work in the areas where there is currently a moratorium issued by the City. See Appendix G, “Moratoriums.” The areas subject to moratorium are listed here:

- a) 7th Ave from E Street to Broadway, 10<sup>th</sup> Ave from Ash Street to Beech Street from Thanksgiving Day to New Year’s Day (inclusive), “Holiday Shopping Moratorium.”
- b) Pacific Hwy from Memorial Day to Labor Day (inclusive), “Summer Beach Moratorium.”

## SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

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

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

### 7-3.1 Policies and Procedures.

1. You must procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You must maintain this insurance for the duration of this contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this contract.
4. Payment for insurance is included in the various items of Work as bid by you, and except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any work under this contract until you have provided and the City has approved all required insurance.

5. Policies of insurance must provide that the City is entitled to 30 days (10 days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

**7-3.2 Types of Insurance.**

**7-3.2.1 Commercial General Liability Insurance.**

1. Commercial General Liability Insurance must be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy must cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured’s contract (including the tort liability of another assumed in a business contract).
3. There must be no endorsement or modification limiting the scope of coverage for either “insured vs. insured” claims or contractual liability. You must maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense must be outside the policy limits. Policy coverage must be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

**7-3.2.2 Commercial Automobile Liability Insurance.**

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

### 7-3.2.3

#### **Contractors Pollution Liability Insurance.**

1. You must procure and maintain at your expense or require Subcontractor, as described below to procure and maintain, the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.
2. All costs of defense must be outside the limits of the policy. Any such insurance provided by Subcontractor instead of you must be approved separately in writing by the City.
3. For approval of a substitution of Subcontractor's insurance, you must certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible must not exceed \$25,000 per claim.
4. Contractual liability must include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There must be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability.
5. Occurrence based policies must be procured before the Work commences and must be maintained for the Contract Time. Claims Made policies must be procured before the Work commences, must be maintained for the Contract Time, and must include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies must continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
6. Except as provided for under California law, the policy or policies must provide that the City is entitled to 30 days prior written notice (10 days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

### 7-3.3

**Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this contract as described herein must be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

### 7-3.3.1

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

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



**7-3.4 Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document must be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

**7-3.5 Policy Endorsements.**

**7-3.5.1 Commercial General Liability Insurance**

**7-3.5.1.1 Additional Insured.**

- a) You must provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
- b) To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
- c) The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you.
- d) The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, or (c) premises owned, leased, controlled, or used by you.

**7-3.5.1.2 Primary and Non-Contributory Coverage.** The policy must be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it must provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives must be in excess of your insurance and must not contribute to it.

**7-3.5.1.3 Project General Aggregate Limit.**

The policy or policies must be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work must reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit must be in addition to the aggregate limit provided for the products-completed operations hazard.

**7-3.5.2 Commercial Automobile Liability Insurance.**

**7-3.5.2.1 Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

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

**7-3.5.3.1 Additional Insured.**

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

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

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

**7-3.6 Deductibles and Self-Insured Retentions.** You must pay for all deductibles and self-insured retentions. You must disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

**7-3.7 Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this contract.

**7-3.8 Notice of Changes to Insurance.** You must notify the City 30 days prior to any material change to the policies of insurance provided under this contract.

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

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

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

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

2. Limits for this insurance must be not less than the following:

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

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you must comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

**7-4.1.1 Waiver of Subrogation.**

The policy or policies must be endorsed to provide that the insurer will waive all rights of subrogation against the City, and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from work performed by the Named Insured for the City.

**7-8.6 Water Pollution Control.** ADD the following:

1. Based on a preliminary assessment by the City, the Contract is subject to WPCP.

**7-10.5.3 Steel Plate Covers.** Table 7-10.5.3(A), REVISE the plate thickness for 5'-3" trench width to read 1 3/4".

**7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT.** To the City Supplements, fourth paragraph, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Your duty to indemnify and hold harmless does not include any claims or liability arising from the established active or sole negligence, or willful misconduct of the City, its officers, or employees.

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

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

#### **SECTION 9 - MEASUREMENT AND PAYMENT**

**9-3.2.5 Withholding of Payment.** To the City Supplements, item i), DELETE in its entirety and SUBSTITUTE with the following:

- i) Your failure to comply with 7-2.3, "PAYROLL RECORDS" and 2-16, "CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM."

**ADD:**

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

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

**203-15 RUBBER POLYMER MODIFIED SLURRY (RPMS).** RPMS shall be used on this contract.

#### **SECTION 207 – PIPE**

**207-27 FUSIBLE NON-PRESSURE POLYVINYLCHLORIDE PIPE.** DELETE in its entirety.

## SECTION 209 – STREET LIGHTING AND TRAFFIC SIGNAL MATERIALS

**209-6.4 Induction Cobra Head Luminaire.** To the City Supplements, CORRECT certain section numbering as follows:

<b>OLD SECTION NUMBER</b>	<b>TITLE</b>	<b>NEW SECTION NUMBER</b>
<b>209-6.4.7</b>	<b>Luminaire Identification</b>	<b>209-6.4.8</b>
<b>209-6.4.8</b>	<b>Photometric Documentation</b>	<b>209-6.4.9</b>
<b>209-6.4.9</b>	<b>Quality Assurance</b>	<b>209-6.4.10</b>

## SECTION 300 – EARTHWORK

**300-1.4 Payment.** To the City Supplements, paragraph (2), DELETE in its entirety and SUBSTITUTE with the following:

2. Payment for existing pavement removal and disposal of up to 12” thick, within the excavation e.g., trench limits, shall be included in the Bid item for installation of the mains or the Work item that requires pavement removal.

## SECTION 302 – ROADWAY SURFACING

**302-3 Preparatory Repair Work.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

**302-3 Preparatory Repair Work.**

1. Prior to roadway resurfacing or the application of slurry, the Contractor shall complete all necessary preparation and repair work to the road segment e.g., tree trimming, weed spray, weed abatement, crack sealing, asphalt repair, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc. and as specified in the Special Provisions.
2. Preparatory work shall include, but not be limited to, tree trimming, weed spray, weed abatement, crack sealing, asphalt repair i.e., mill and pave, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc.
3. The Contractor shall repair areas of distressed asphalt concrete pavement by milling or removing damaged areas of pavement to a minimum depth of 2” for Residential streets, and a minimum depth of 3” for all others to expose firm and unyielding pavement. The Contractor shall prepare subgrade as needed and install a minimum of 2” for residential streets, and a minimum of 3” for all others, of compacted asphalt concrete pavement over compacted native material as directed by the Engineer.

4. If, in order to achieve the minimum specified depth, the base material is exposed, the material shall be compacted to 95% relative compaction to a depth 10" below the finished grade (dig out). Compaction tests shall be made to ensure compliance with the specifications. The Engineer will determine when and where the test will occur. The City will pay for the soils testing required by the Engineer, which meets the required compaction. The Contractor shall reimburse the City for the cost of retesting failing compaction tests. If additional base material is required, the Contractor shall use Class 2 Aggregate Base in accordance with 400-2.4, "Class 2 Aggregate Base."
5. Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, "Class 2 Aggregate Base."
6. Prior to replacing asphalt, the area shall be cleaned by removing all loose and damaged material, moisture, dirt, and other foreign matter and shall be tack coated in accordance with 302-5.4 "Tack Coat."
7. The Contractor shall install new asphalt within the repair area or for patches in accordance with 302-5, "ASPHALT CONCRETE PAVEMENT." Asphalt concrete shall be C2-PG 64-10 in compliance with 400-4, "ASPHALT CONCRETE."
8. No preparatory asphalt work shall be done when the atmospheric temperature is below 50 °F or during unsuitable weather.
9. Following the asphalt placement, the Contractor shall roll the entire area of new asphalt in both directions at least twice. The finished patch shall be level and smooth in compliance with 302-5.6.2 "Density and Smoothness." After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4" wide continuous band of SS-1H.
10. The minimum dimension for each individual repair shall be 4' x 4' and shall be subject to the following conditions:
  - a) If the base material is exposed to achieve the required minimum removal thickness, the base material shall be prepared conforming to 301-1, "SUBGRADE PREPARATION."
  - b) When additional base material is required, then the contractor shall use Class 2 Aggregate Base in accordance with 200-2.2, "Crushed Aggregate Base." Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, "Crushed Miscellaneous Base."
  - c) The Contractor may use grinding as a method for removal of deteriorated pavement when the areas indicated for removal are large enough (a minimum of the machine drum width) and when approved by the Engineer.
  - d) For both scheduled and unscheduled base repairs, failed areas may be removed by milling or by excavation provided that the edges are cut cleanly with a saw. The areas shall be cleaned and tack coated in accordance with 302-5.4, "Tack Coat" before replacing the asphalt. The areas for scheduled repairs have been marked on the street.

### **302-3.1 Asphalt Patching.**

1. Asphalt patching shall consist of patching potholes, gutter-line erosion, and other low spots in the pavement that are deeper than ½” per 302-5.6.2, “Density and Smoothness.” These areas are generally smaller and more isolated than those areas in need of mill and pave.
2. The areas requiring patching have been identified in the Contract Documents, marked on the streets, or as directed by the Engineer. The Contractor shall identify any new areas that may require patching prior to slurry work to ensure the smoothness and quality of the finished product.
3. The Contractor shall identify and repair any areas that may require patching, prior to the placement of slurry seal for smooth finished product.
4. Asphalt overlay shall not be applied over deteriorated pavement. Preparatory asphalt work shall be completed and approved by the Engineer before proceeding with asphalt overlay.
5. The Contractor shall remove distressed asphalt pavement either by saw cutting or milling, to expose firm and unyielding pavement; prepare subgrade (as needed); and install compacted asphalt concrete pavement over compacted native material as directed by the Engineer.
6. Prior to replacing asphalt, the area shall be cleaned and tack coated per 302-5.4, “Tack Coat”.
7. Following the asphalt placement, the Contractor shall roll the entire patch in both directions covering the patch at least twice.
8. After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4” wide continuous band of SS-1H.
9. Base repairs shall not exceed 20% RAP in content.

### **302-3.2 Payment.**

1. Payment for replacement of existing pavement when required shall be included in the unit bid price for Asphalt Pavement repair for the total area replaced and no additional payment shall be made regardless of the number of replacements completed. No payment shall be made for areas of over excavation or outside trench areas in utility works unless previously approved by the Engineer. No payment for pavement replacement will be made when the damage is due to the Contractor’s failure to protect existing improvements. The Contractor shall reimburse the City for the cost of retesting all failing compaction tests.
2. The areas and quantities shown on the road segments and in appendices are given only for the Contractor’s aid in planning the Work and preparing Bids. The Engineer will designate the limits to be removed and these designated areas shall be considered to take precedent over the area shown in an Appendix to the Contract Documents. The quantities shown in the appendices are based on a street assessment survey and may vary.

3. At the end of each day, the Contractor shall submit to the Engineer an itemized list of the asphalt pavement repair work completed. The list shall include the location of the work and the exact square footage of the repair.
4. Preparatory repair work and tack coating will be paid at the Contract unit price per ton for Asphalt Pavement Repair. No payment shall be made for areas of over excavation unless previously approved by the Engineer.
5. Milling shall be included in the Bid item for Asphalt Pavement Repair unless separate Bid item has been provided.
6. Payment for miscellaneous asphalt patching shall be included in the Contract unit price for slurry and no additional payment shall be made therefore.

**302-4.12.4 Measurement and Payment.** ADD the following:

Payment for Rubber Polymer Modified Slurry Type II and Striping and the required striping and pavement markers shall be included in the Bid item for Rubber Polymer Modified Slurry Type II and Striping.

**302-5.1.1 Damaged AC Pavement Replacement.** To the City Supplement, DELETE in its entirety.

**302-5.1.2 Measurement and Payment.** To the City Supplement, DELETE in its entirety.

**SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION**

**306-1 OPEN TRENCH OPERATIONS.** To the City Supplements, CORRECT certain section numbering as follows:

<b>OLD SECTION NUMBER</b>	<b>TITLE</b>	<b>NEW SECTION NUMBER</b>
<b>306-1.8</b>	<b>House Connection Sewer (Laterals) and Cleanouts</b>	<b>306-1.9</b>
<b>306-1.7.1</b>	<b>Payment</b>	<b>306-1.9.1</b>
<b>306-1.7.2</b>	<b>Sewer Lateral with Private Replumbing</b>	<b>306-1.9.2</b>
<b>306-1.7.2.1</b>	<b>location</b>	<b>306-1.9.2-1</b>
<b>306-1.7.2.2</b>	<b>Permits</b>	<b>306-1.9.2-2</b>
<b>306-1.7.2.3</b>	<b>Submittals</b>	<b>306-1.9.2-3</b>
<b>306-1.7.2.4</b>	<b>Trenchless Construction</b>	<b>306-1.9.2-4</b>
<b>306-1.7.2.5</b>	<b>Payment</b>	<b>306-1.9.2-5</b>
<b>306-1.7.3.6</b>	<b>Private Pump Installation</b>	<b>306-1.9.2-6</b>
<b>306-1.7.3.7</b>	<b>Payment</b>	<b>306-1.9.2-7</b>



**306-1.6 Basis of Payment for Open Trench Installations.** ADD the following:

Payment for imported backfill when the Contractor elects to import material from a source outside the project limits and when authorized by the Engineer shall be included in the Bid unit price for Imported Backfill. The price shall include the removal and disposal of unsuitable materials.

**306-22 Pipe Fusion.** DELETE in its entirety.

**SECTION 500 – PIPELINE**

**500-1.1.1 GENERAL.** To the City Supplement, (1) (a), ADD the following:

The felt and resin system shall be selected from those listed in the City’s approved material list.

**500-1.1.5 Video Inspection.** To the City Supplement, after the last paragraph, ADD the following:

During the pre-installation video the contractor must identify all existing protruding laterals with the existing main and trim them flush to the main prior to rehabilitation. The cost of trimming the existing laterals will be included in the pipe rehabilitation bid item.

**500-1.1.2.1 Initial Submittals.** To the City Supplement, ADD the following:

Within 5 Working Days of the Pre-Construction meeting, the apparent low bidder shall submit the following:

- Contractor’s Experience and Past Project Documentation
- Manufacturer Certification
- Authorized Installer certification

**500-1.1.9 Measurement and Payment.** Third Paragraph, DELETE in its entirety.

**500-1.2.4 Sewer Bypassing and Dewatering.** DELETE in its entirety and SUBSTITUTE with the following:

When required by the Contract Documents or the process, the Contractor shall bypass the sewer flow around the Work and dewater the Site in conformance with 704, “SEWAGE SPILL PREVENTION” and 705-2.1, “General”

**500-1.2.7 Payment.** To the City Supplement, add the following

3. The sewer lateral point repair work will be measured and paid for at the unit price bid per each sewer lateral point repair. Measurement will be made at the pipe and will be based on the length of lateral repaired. The Contractor will be paid for 1 sewer lateral point repair for each repair 6' or less in length.

4. The payment for Additional sewer lateral Point Repair shall cover sewer lateral point repairs continuous with and in addition to the basic 6' repair. Measurement will be made at the sewer lateral and will be based on the length of the lateral repaired less the basic 6' paid under sewer lateral Point Repair.

**500-1.4.1** **General.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

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

1. CIPP liner for the rehabilitation of pipelines shall be either the Type A - inversion process in compliance with ASTM F1216 or the Type B - pull-in-place process in compliance with ASTM F1743 for installation using heated-water cure. CIPP Liner for rehabilitation of pipelines shall use approved polyester, epoxy, or epoxy-vinyl ester-resin-impregnated flexible fabric tube.
2. The CIPP liner shall extend the full length of the pipe reach to be rehabilitated and shall provide a structurally sound, impermeable, seamless, joint-less, close-fitting pipe, that when cured, is bonded to the host pipe.

**500-1.6** **SERVICE LATERALS.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

**ADD:**

**500-1.6**

**SERVICE LATERAL REHABILITATION.**

**500-1.6.1**

**General.**

1. The rehabilitation shall be accomplished using a fabric or fiberglass tube of particular length and a thermoset resin with physical and chemical properties appropriate for the application. The tube is vacuum impregnated with the resin. Access to an upstream end of the service lateral is made by excavation in the public right of way. Installation of the resin-impregnated tube into the service lateral may be performed either by Type A inversion in accordance with ASTM F1216 or by Type B pull-in in accordance with ASTM F 1743, and may be performed from either the mainline or the excavated end of the lateral.
2. The cured-in-place liner shall extend the entire length of the lateral from the access point to the mainline. The liner shall be extended sufficiently to create a water tight seal at the main and the liner interface. Once the tube or resin composite is cured, the installation equipment shall be removed and the protruding end in the collector shall be cut using a robotic cutting device. A sewer cleanout in accordance with the Standard Drawing SDS-102 "Sewer Lateral Cleanout (In Driveway, Paved Alley, Sidewalk, or Other Area Subject to Traffic)" or SDS-103 "Sewer Lateral Cleanout Outside Traveled Way" shall be installed at the access point and properly backfilled.
3. The liner shall be extended sufficiently to create a water tight seal at the main and the liner interface.

4. If there is a SLC in place, then the cured-in-place lateral liner shall have a minimum overlap of 2" over the previously installed SLC sewer main lateral connection.

**500-1.6.2 Material.**

- a) The tube shall consist of one or more layers of flexible needled felt, or an equivalent material. Where the tube is fabricated from non woven felt, the longitudinal and circumferential joints are made up by seal bonding. The tube shall be capable of conforming to bends, off-set joints, bells, and disfigured pipe sections. The resin and catalyst system as designed for the specific application shall meet the chemical resistance requirements of 210-2.3.3, "Chemical Resistance Test (Pickle Jar Test)."
- b) The composite of the materials above shall, upon installation inside the host pipe, shall exceed the minimum test standards specified in Table 500-1.4.2 (A).

**500-1.6.3 Installation Procedures (ASTM F1216-98 and ASTM F1743).**

- a) The Property Owner of the lateral being rehabilitated shall be informed, and the flow stopped, for the period of reconstruction work.
- b) The Contractor shall excavate an access pit at the appropriate upstream point on the service lateral in accordance with the reconstruction length determined by the Engineer.
- c) The Contractor shall always clean and color video the lateral line immediately prior to reconstruction and determine the structural condition of the pipeline. Roots, debris, and protruding service connections shall be removed prior to rehabilitation.
- d) The tube shall be inspected for torn or frayed sections. The tube in good condition shall then be vacuum impregnated with the thermoset resin.
- e) No open pans or uncontrolled open-air pouring of resin shall be allowed during tube saturation. Resin shall be contained within the inflation bladder during vacuum impregnation and insertion. The Contractor shall ensure that no public property is exposed to contamination by liquid resin compounds or components.
- f) The saturated tube along with the inflation bladder shall be inserted into the installation equipment and the end closed. The entire installation equipment shall be placed in the pipe access pit and aligned with the exposed end of the pipe.
- g) The resin and tube shall be completely protected during the placement. The resin shall not be contaminated or diluted by exposure to dirt, debris, or water during the placement.
- h) The tube shall be installed from the installation equipment by controlled air, water or steam pressure as in accordance with manufacturer instructions. The installation shall be stopped when the tube extends the entire length of the lateral section to be lined. The tube is held tightly in place against the wall of the host pipe by the pressure until the cure is complete.

- i) When the curing process is complete, the pressure is released and the inflation bladder reverted back into the installation equipment and removed from the pit.
- j) No barriers, coatings, or any material other than the cured tube or resin composite specifically designed for desirable physical and chemical resistance properties shall be left in the host pipe. Any materials used in the installation other than the cured tube or resin composite shall be removed.
- k) Any cured tube or resin composite pipe left protruding from the service connection shall be trimmed back using a hydraulic-powered robotic cutting device specifically designed for cutting cured-in-place pipe made from these materials.
- l) A second color video inspection shall be performed to verify the proper cure of the material, the proper trim of service connection, and the integrity of the seamless pipe.
- m) The bypass pumping system shall be removed and the sewer flows restored to normal flow conditions. The service lateral pipes shall be coupled together. The excavation shall be properly backfilled. The property owner of the service connection shall be informed when the Work is complete.

**500-1.6.4**     **Deviations.** If pre-installation inspection reveals conditions in the service lateral to be substantially different than those used in the design of wall thickness, tube construction, tube length, or resin system; then the Contractor shall correct the situation as approved by the Engineer.

**500-1.6.5**     **Acceptance.** Upon completion, the Contractor shall deliver the video records and written reports to the Engineer. The Engineer shall review the documentation and the Site to determine if the Work is complete and the work may be accepted.

**500-1.6.6**     **Payment.**

- a) Payment for the Work covered under 500-1.6, “Service Laterals Rehabilitation” shall be made per each lateral.
- b) The payment for determination of the location and the installation of a sewer cleanout at the access point and televising of the service laterals shall be included in the payment for lateral rehabilitation.
- c) Payment for point repairs shall be included in the bid price for point repairs and paid for in accordance with 500-1.1.9, “Measurement and Payment” and 500-1.2.7, “Payment.”

**500-1.7.10**    **Payment.** To the City Supplement, DELETE in its entirety.

**500-1.10.7**   **Payment.** To the City Supplement, DELETE in its entirety.

**500-1.13.10** **Payment.** To the City Supplement, DELETE in its entirety.

**500-4 SERVICE LATERAL CONNECTION SEALING.** DELETE in its entirety and SUBSTITUTE with the following:

**500-4 SERVICE LATERAL CONNECTION (SLC) SEALING.**

**500-4.1 General.**

1. SLC is the interface of the house sewer lateral with the main sewer. SLC to rehabilitated sanitary sewer lines shall be sealed, normally without excavation, by the installation of a resin-impregnated, flexible, felt tube or fiberglass tube installed into the existing service lateral. The tube shall form a “tee” section with a full lap inside the main pipe and shall extend continuously from the sewer main into the lateral for a minimum of 4”. SLC may be a combination of “tees” or “wyes” of varying angle. The resin shall be cured to form the tube into a hard impermeable pipe-within-a-pipe. When cured, the SLC shall seal the connection of the lateral to the mainline in a continuous tight-fitting, watertight pipe-within-a-pipe to eliminate any visible leakage between the lateral and mainline and shall provide a leak-proof seal designed for a minimum 50-year life to prevent root intrusion, infiltration, and exfiltration between a liner and a host pipe.
2. Prior to cleaning and pre-rehab video inspection, the Contractor shall submit a detailed operational plan for the proposed cleaning of all roots inside the pipe and around the service connection for the Engineer’s approval. After cleaning, the Contractor shall proceed with lining of the pipe and reinstating all live service connections. The service connection openings shall conform to the shape and the size of the inside diameter of the existing service connection. Contractor shall use a wire brush or other methods and equipment as recommended by other lining system providers, or other approved means and methods to provide a smooth opening for connecting the lateral to the newly lined pipeline.
3. The Contractor shall trim all protruding laterals which interfere with the lining installation, as flush with the pipe interior as practicable.

**500-4.2 Reference Specification.** This specification references ASTM test methods which are made a part hereof by such reference and shall be the latest edition and revision thereof and shall meet the chemical resistance requirements of section 210-2.3.3, “Chemical Resistance Test (Pickle Jar Test).”

**500-4.3 General Corrosion Requirements.**

- a) The finished SLC product shall be fabricated from materials which when cured shall be chemically resistant to withstand internal exposure to domestic sewage and shall meet the chemical resistance requirements of 210-2.3.3, “Chemical Resistance Test (Pickle Jar Test)” and Table 210-2.4.1 (A).
- b) The SLC product shall be compatible with the lining system materials utilized in the main sewer line.

**500-4.4****SLC Materials.**

- a) A flexible, felt tube shall be fabricated to neatly fit the internal circumference of the conduit specified by the City. Allowance shall be made for circumferential stretching during insertion.
- b) The SLC connection shall extend minimum 4" from the mainline into the lateral.
- c) The Contractor shall furnish a specially designed, unsaturated polyester or vinyl ester resin, and catalyst system compatible with the SLC process that provides cured physical strengths specified herein.

**500-4.5****Physical Properties.**

- a) The cured SLC shall conform to the minimum structural standards as listed in Table 500-1.4.2 (A).
- b) No cured-in-place pipe rehabilitation technology shall be allowed that requires bonding to the existing pipe for any part of its structural strength.
- c) Design methods are to be derived for various loading parameters and modes of failure. Equations shall be modified to include deformation in the shape of an oval as a design parameter. The design method shall be submitted to the Engineer for approval prior to the Pre-construction Meeting.

**500-4.6****Installation Preparation.**

- a) The Contractor shall remove internal debris out of the sewer line.
- b) Inspection of pipelines shall be performed by experienced personnel trained in locating breaks and obstacles by closed circuit television. The interior of the pipeline shall be carefully inspected to determine the location of any conditions which may prevent proper installation of the SLC into the pipelines, and it shall be noted so that these conditions can be corrected. A color video and suitable log shall be kept for later reference by the City.
- c) The Contractor, when required, shall provide for the flow of sewage around the section or sections of mainline pipe where the service lateral designated for SLC is located. The bypass shall be made by plugging the line at an existing upstream manhole and pumping the flow into a downstream manhole or adjacent system. The pump and bypass lines shall be of adequate capacity and size to handle the flow without service interruption. The bypass systems shall be approved in advance by the City.
- d) The service lateral shall be inactive during the time of installation.
- e) The Contractor shall clear the line of obstructions that prevent the insertion of the SLC material. If inspection reveals an obstruction that cannot be removed by conventional sewer cleaning equipment, the Contractor shall make an external point repair excavation to uncover and remove the obstruction. The Contractor shall inform the Engineer prior to the commencement of the Work.

- f) The mainline pipe opening shall be prepared to accept the SLC and the mainline rehabilitated pipe shall be maximized to obtain the best possible connection.
- g) The transition from the mainline pipe to the service lateral shall be smooth and continuous to provide adequate support for the SLC during installation and cure.

**500-4.7 SLC Installation.**

- a) The resin impregnated tube shall be loaded inside a pressure apparatus. The pressure apparatus, attached to a robotic device, shall be positioned in the mainline pipe at the service connection. The robotic device, together with a television camera, shall be used to align the SLC repair with the service connection opening. Air pressure, supplied to the pressure apparatus through an air hose, shall be used to invert the resin impregnated SLC into the lateral pipe. The inversion pressure shall be adjusted to fully invert the SLC into the lateral pipe and hold the tube tight to the pipe wall. Care shall be taken during the curing process not to over-stress the tube.
- b) The pressure apparatus shall include a bladder which shall inflate in the mainline pipe, effectively seating the SLC repair against the service connection.
- c) After inversion or pull in is completed, recommended pressure is maintained on the impregnated tube for the duration of the curing process. Curing method shall be compatible with the resin selected. An ultraviolet (UV) light cured, heat cured or ambient cured resin system is typically used.
- d) The initial cure shall be deemed to be completed when the SLC has been exposed to the UV light, heat source or held in place for the time period specified by the manufacturer.
- e) The Contractor shall cool the hardened SLC before relieving the pressure in the pressure apparatus. Cool-down may be accomplished by the introduction of cool air into the pressure apparatus. Care shall be taken to maintain proper pressure throughout the cure and cool-down period.
- f) The finished SLC shall be free of dry spots, lifts and delamination. The lateral SLC shall not inhibit the closed circuit television post video inspection of the mainline or service lateral pipes. Frayed ends of the SLC repair shall be removed prior to acceptance.
- g) During the warranty period, any defects which shall affect the integrity of strength of the SLC shall be repaired at the Contractor's expense in a manner mutually agreed upon by the manufacturer, City, and the Contractor.
- h) After the Work is completed, the Contractor shall provide the City with a video disc showing the completed work including the restored conditions.

**500-4.8** **Clean-Up.** Upon acceptance of the installation work, the Contractor shall reinstate the Site affected by its operations.

**500-4.9** **Payment:** Payment for SLC sealing systems shall be made at the Contract Unit Price or lump sum price in the Bid for each SLC. The Contract Unit Price or lump sum price in the Bid shall include the installation of the SLC sealing system, surface preparation and repairs, preparation and tape submittal of all pre- and post-construction CCTV inspection, bypassing if required, and testing, unless otherwise specified in the Special Provisions.

### **SECTION 705 – WATER DISCHARGES**

**705-2.6.3** **Community Health and Safety Plan.** To the City Supplements, DELETE in its entirety and SUBSTITUTE with the following:

**705-2.6.3** **Community Health and Safety Plan.** See 703-2, “Community Health and Safety Plan.”

**705-2.6.1** **General.** Paragraph (3), CORRECT reference to Section 803 to read “Section 703.”

### **SECTION 707 – RESOURCE DISCOVERIES**

#### **ADD:**

**707-1.1** **Environmental Document.** The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a Notice of Exemption for Pipeline Rehabilitation V-1 project, Project No. WBS #B-13013. You must comply with all requirements of the Notice of Exemption as set forth in the Contract Appendix.

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

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



**SUPPLEMENTARY SPECIAL PROVISIONS**

**APPENDICES**

**APPENDIX A**  
**NOTICE OF EXEMPTION**

NOTICE OF EXEMPTION

(Check one or both)

TO: X RECORDER/COUNTY CLERK
P.O. BOX 1750, MS A-33
1600 PACIFIC HWY, ROOM 260
SAN DIEGO, CA 92101-2422
OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121
SACRAMENTO, CA 95814

FROM: CITY OF SAN DIEGO
DEVELOPMENT SERVICES DEPARTMENT
1222 FIRST AVENUE, MS 501
SAN DIEGO, CA 92101

PROJECT NO.: WBS #B-13013 PROJECT TITLE: Pipeline Rehabilitation V-1

PROJECT LOCATION-SPECIFIC: General area in proximity to and portions of: Castle Hills Dr, Vue du Ville Ct, Vue du Bay Ct, Alta Bahia Ct, Windsor Dr, Cassandra Ln, Alta Vista St, Los Altos Wy, Los Altos Rd, Park Dr, Yost Pl, Middleton Rd, Pendleton St, Wesley Dr, Crownhill Rd, Soledad Mountain Rd, Quincy St, Randall St, Alto Cerro Cr, Baja Cerro Cr, Romney Rd, San Aquario Dr, Pacifica Dr, San Joaquin Dr, Loring St, San Anselmo St, Academy St, Wilbur Av, Beryl St, Donaldson Dr, Chalcedony St, Geranium St, Aster St, 5th Av, Howard Av, Arizona St, alley between Arizona St and Hamilton St, Polk Av, alley between Kansas St and 30th St, Iowa St, Madison Av, West Mountain View Dr, Copley Av, alleys in the vicinity of Collier Av, Bancroft St, 33rd St, Felton St, Hawley Bl, Mansfield St, and Adams Av, Sydney Pl, Raymond Pl, Eugene Pl, easement between Harbor Dr and Pacific Hwy, 7th Av, 10th Av, Felton St, Gregory St, Grape St, Petra Dr, Petra Pl, Fir St, Friedrich Dr, Pentucket Av, Boundary St, Montclair St and Becky Pl. The project is located within the Downtown, Greater North Park, Mid-Cities, Pacific Beach and Uptown Community Plan Areas.

PROJECT LOCATION-CITY/COUNTY: San Diego/San Diego

DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT: This project proposes to rehabilitate approximately 43, 962 linear feet (8.32 miles) of existing 8-inch sewer pipeline primarily within the paved right of way that includes rehabilitating 66 manholes (MHs), installing 26 new cleanouts and 1 MH repair, rehab or modified sewer laterals, as well as 17 pipeline point repairs and 1 replace-in-place segment. Some improvements would occur in ornamental landscape areas. No disturbance to native vegetation is proposed. Excavation of the area would occur primarily over existing pipeline trenches, and previously disturbed soil. In all instances, the project combined with the related scope has been identified to occur in areas classified as 'non-sensitive.' Two methods of sewer main rehabilitation may be used for this project, both utilizing existing MHs and/or cleanouts. Both require access from two MHs and or a MH and cleanout for each pipe segment: 1) Cured in place pipe (CIPP) liner is pulled through the sewer main, cured used hot water or steam, and cut at both manholes; and 2) Ribloc (spiral) liner is pulled through the sewer main as plastic strips and then formed to a pipe to create a new pipeline, within the existing pipe. In areas where a secondary sewer MH/cleanout access is required, a new MH/cleanout shall be installed. Depth of new manholes, spot/point repairs would occur in existing disturbed trench, varying in depth between 5 to 24 feet from grade. The installation of the MH is a 5' W x 5' L area and cleanouts are 3' W x 3' L area. Internal and/or external point repairs may occur in portions of pipe that require repair (i.e. due to offset joints, sags, or intruding laterals). Internal point repairs use the above methods, and involve similar methods as the rehabilitation and are contained solely within the pipe. External point repairs involve excavation of an approximate 3' W x 10' L area, from the ground surface to the existing pipeline.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: City of San Diego, E&CP Dept (Rania Amen, 619-533-5492), 600 B Street, Suite 800 (MS 908A), San Diego, CA 92101

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))
(X) CATEGORICAL EXEMPTION: EXISTING FACILITIES (15301) AND REPLACEMENT/RECONSTRUCTION (15302)
( ) STATUTORY EXEMPTIONS:

REASONS WHY PROJECT IS EXEMPT: The improvements noted above involve trenchless repair, or work over existing pipelines via excavation to expose an existing damaged sewer line for the purpose of rehabilitating damaged facilities, or to install manholes/cleanouts where they are needed. This action will not result in any impacts to sensitive biological, archaeological, and/or paleontological resources, since areas where work is to be done is identified as 'non-sensitive,' and all work primarily would occur in previously disturbed and existing trench. Furthermore, the project meets the criteria set forth in CEQA Section 15301 which allows for maintenance to existing facilities/infrastructure and appurtenances and Section 15302 which allows for the replacement or reconstruction of existing structures and facilities where the new structure will be located in the same location and have the same purpose and capacity; and where the exceptions listed in CEQA Section 15300.2 would not apply.

LEAD AGENCY CONTACT PERSON: JEFF SZYMANSKI TELEPHONE: (619) 446-5324

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

Signature/Title: Jeff Szymanski, Assistant Planner

Date: 10/11/12

CHECK ONE:
(X) SIGNED BY LEAD AGENCY
( ) SIGNED BY APPLICANT

DATE RECEIVED FOR FILING WITH COUNTY CLERK OR OPR:

**APPENDIX B**  
**FIRE HYDRANT METER PROGRAM**

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

1. **PURPOSE**

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

2. **AUTHORITY**

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

**Reference**

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

3. **DEFINITIONS**

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



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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.

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

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

**Water Department Director**

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

#### APPENDIX

**Administering Division:** Customer Support Division

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

**Distribution:** DI Manual Holders





# Application For Fire Hydrant Meter

(EXHIBIT A)

For Office Use Only

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

NS Req:	Fac #:
Date:	By:

<b>Meter Information</b>	Application Date:	Requested Install Date:
Fire Hydrant Location: (Attach detailed map, Thomas Bros. map location or construction drawing.)		
Specific Use of Water:		
Any return to Sewer or Storm Drain, if so, explain:		
Estimated Duration of Meter Use: <input type="checkbox"/>	<input type="checkbox"/> Check Box if Reclaimed Water	

## Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip Code:	Phone: ( )
*Business License #:	*Contractor License #:		
*A copy of the Contractor's License and/or Business License is required at the time of meter issuance.			
Name and Title of Agent:			Phone: ( )
Site Contact Name and Title:			Phone: ( )
Pager #:			Cell : ( )
Responsible Party Name:			Title:
Social Security or Cal ID #:			Phone: ( )
Signature:			Date:
Guarantees payment of all charges resulting from the use of this meter. Insures that employees of this organization understand the proper use of Fire Hydrant Meter.			

## Fire Hydrant Meter Removal Request

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

For Office Use Only

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

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

FHM App Created: 11/2/00-htp

**"Exhibit B"**

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

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

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



**"Exhibit C"**

Date

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

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

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

Mail your request for an extension to :

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

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

Sincerely,

City of San Diego Water Department



**Fire Hydrant Meter Relocate/Removal Request**

(EXHIBIT D)

For Office Use Only	
NS Req:	FHM Fac #:
Date:	By:

Date:

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

**Meter Information**

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

**Company Information**

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

**Fire Hydrant Meter Removal Request**

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

**For Office Use Only**

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

FHM Relocate\_Removal Form

FHM App Created: 11/2/00-htp

## **APPENDIX C**

### **MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE**

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

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

**APPENDIX D**  
**SAMPLE CITY INVOICE**

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

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



# PIPELINE REHABILITATION V-1



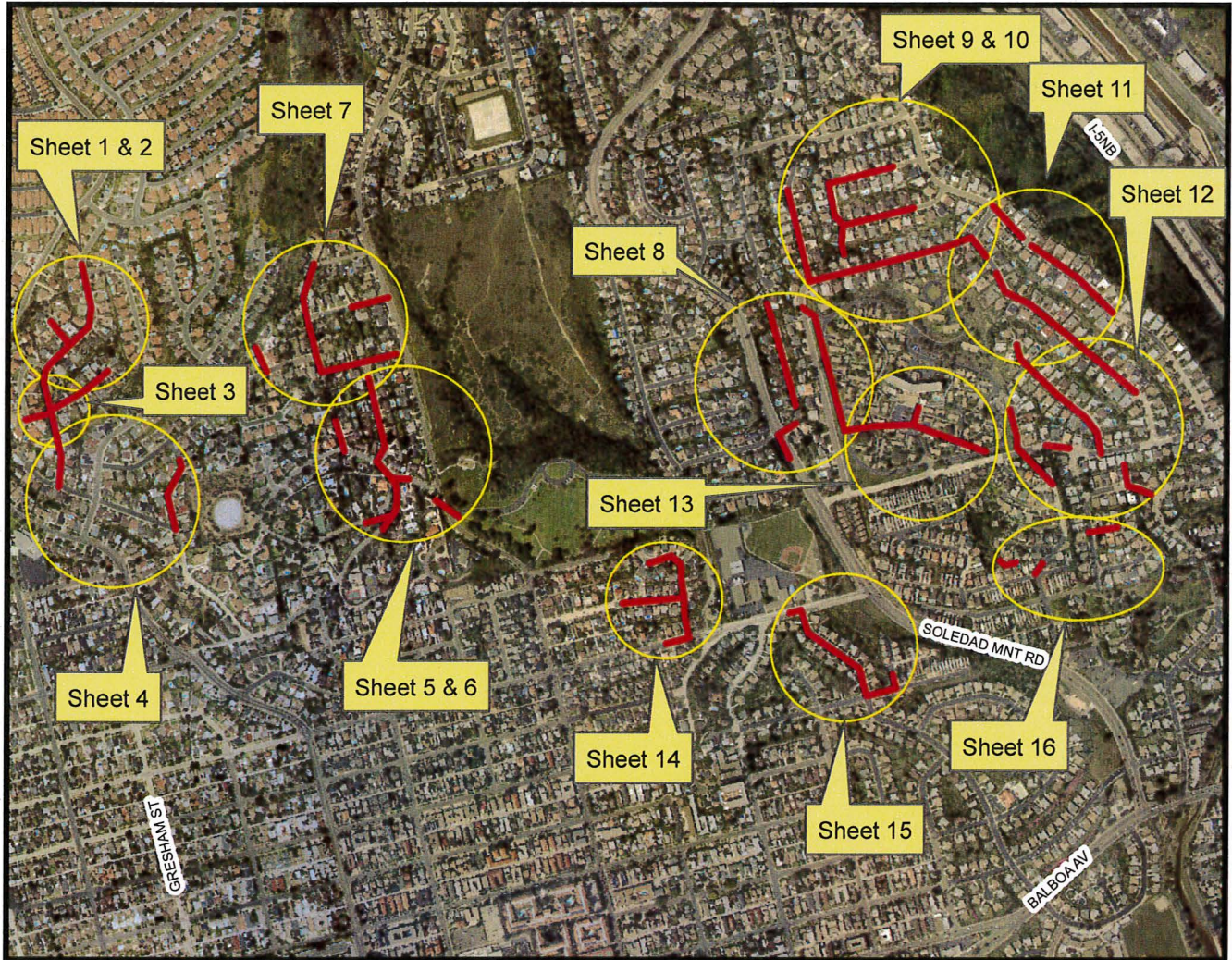
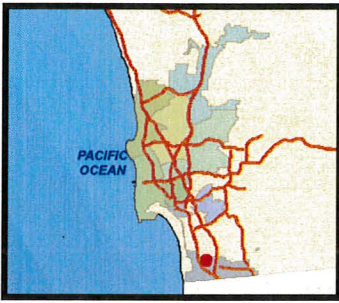
SENIOR ENGINEER  
 RANIA AMEN  
 619-533-5492

PROJECT MANAGER  
 CHRIS GASCON  
 619-533-7418

PROJECT ENGINEER  
 JENNY JARREL  
 619-533-5224

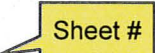
CONSTRUCTION PROJECT  
 INFORMATION LINE  
 619-533-4207

RIGHT-OF-WAY DIVISION



## LEGEND

 Proposed Rehab Pipe

 Sheet # Reference Sheet #



COMMUNITY NAME: PACIFIC BEACH

COUNCIL DISTRICT: 2

SAP ID: B-13013 (S)

Date: May 10, 2013



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# PIPELINE REHABILITATION V-1

SENIOR ENGINEER  
 RANIA AMEN  
 619-533-5492

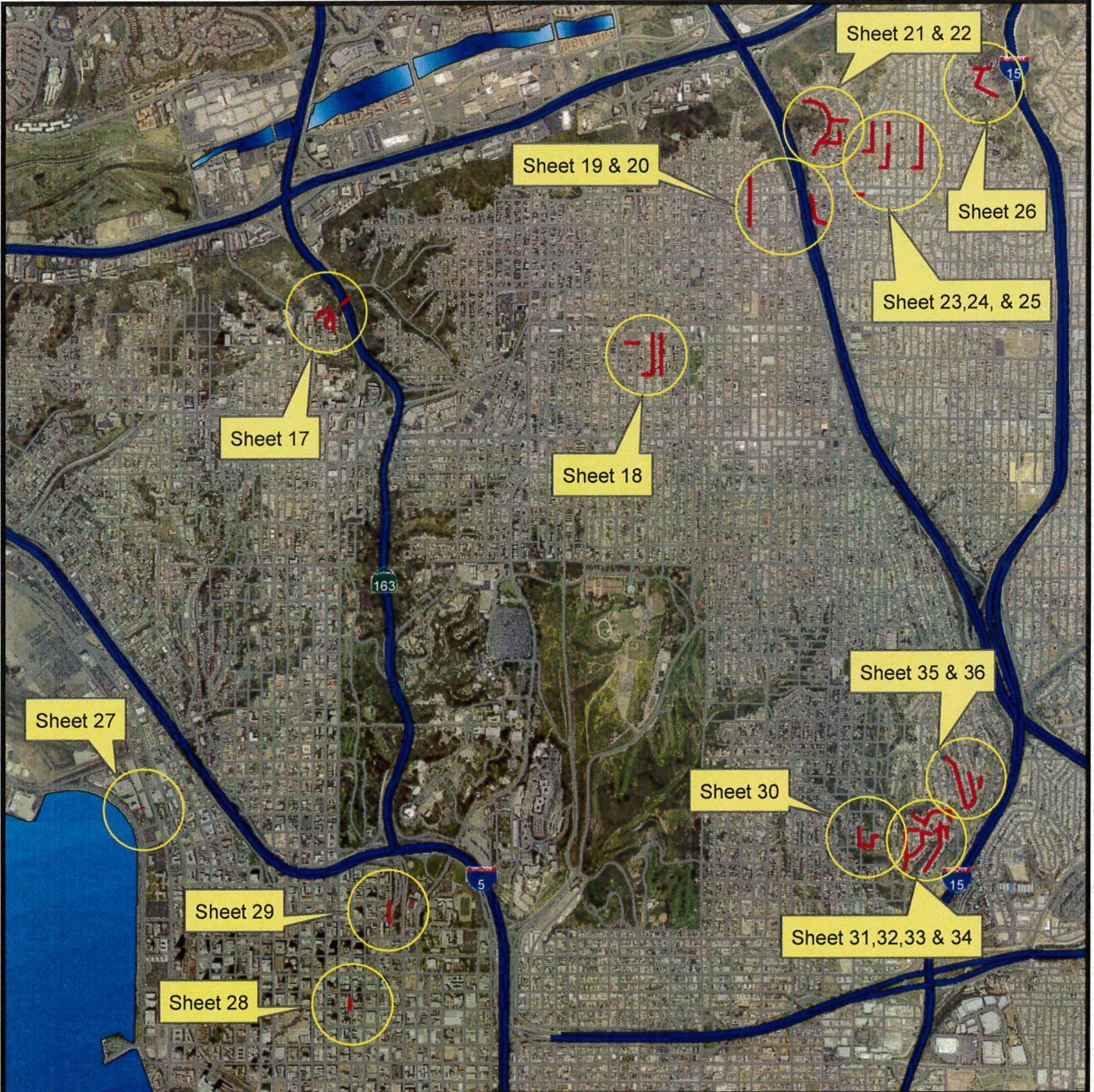
PROJECT MANAGER  
 CHRIS GASCON  
 619-533-7418

PROJECT ENGINEER  
 JENNY JARRELL  
 619-533-5224


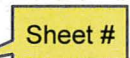
CONSTRUCTION PROJECT  
 INFORMATION LINE  
 619-533-4207



RIGHT-OF-WAY DIVISION



**LEGEND:**

-  Proposed Rehab Pipe
-  Sheet # Reference Sheet #



COMMUNITY NAME:  
 MID CITY, GREATER NORTH PARK,  
 UPTOWN, DOWNTOWN  
 Appendix E – Location Map - Pipeline Rehabilitation V-1



COUNCIL DISTRICT: 3



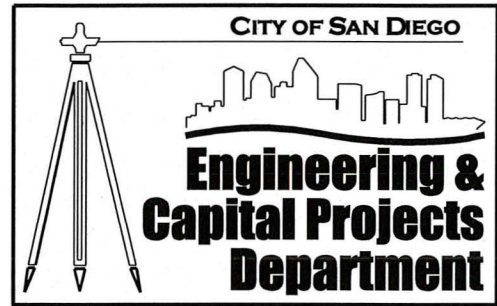
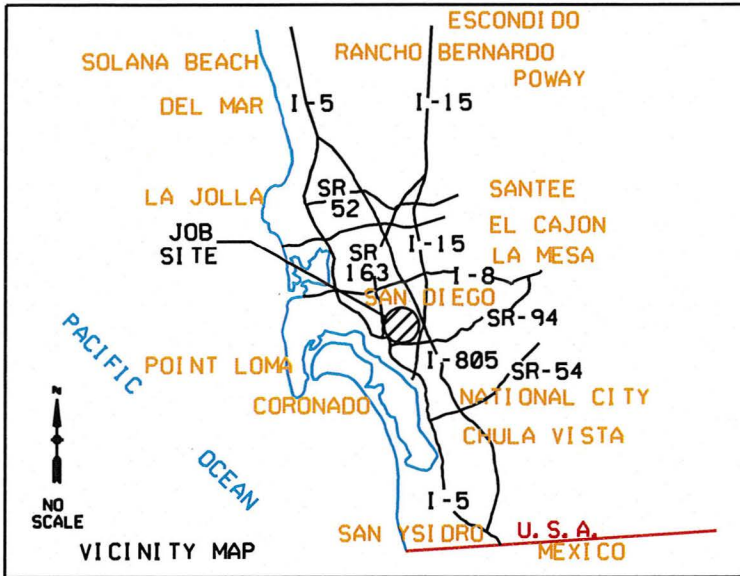
SAP ID: B13013 (S)

Date: May 10, 2013

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**APPENDIX F**  
**ADJACENT PROJECTS**

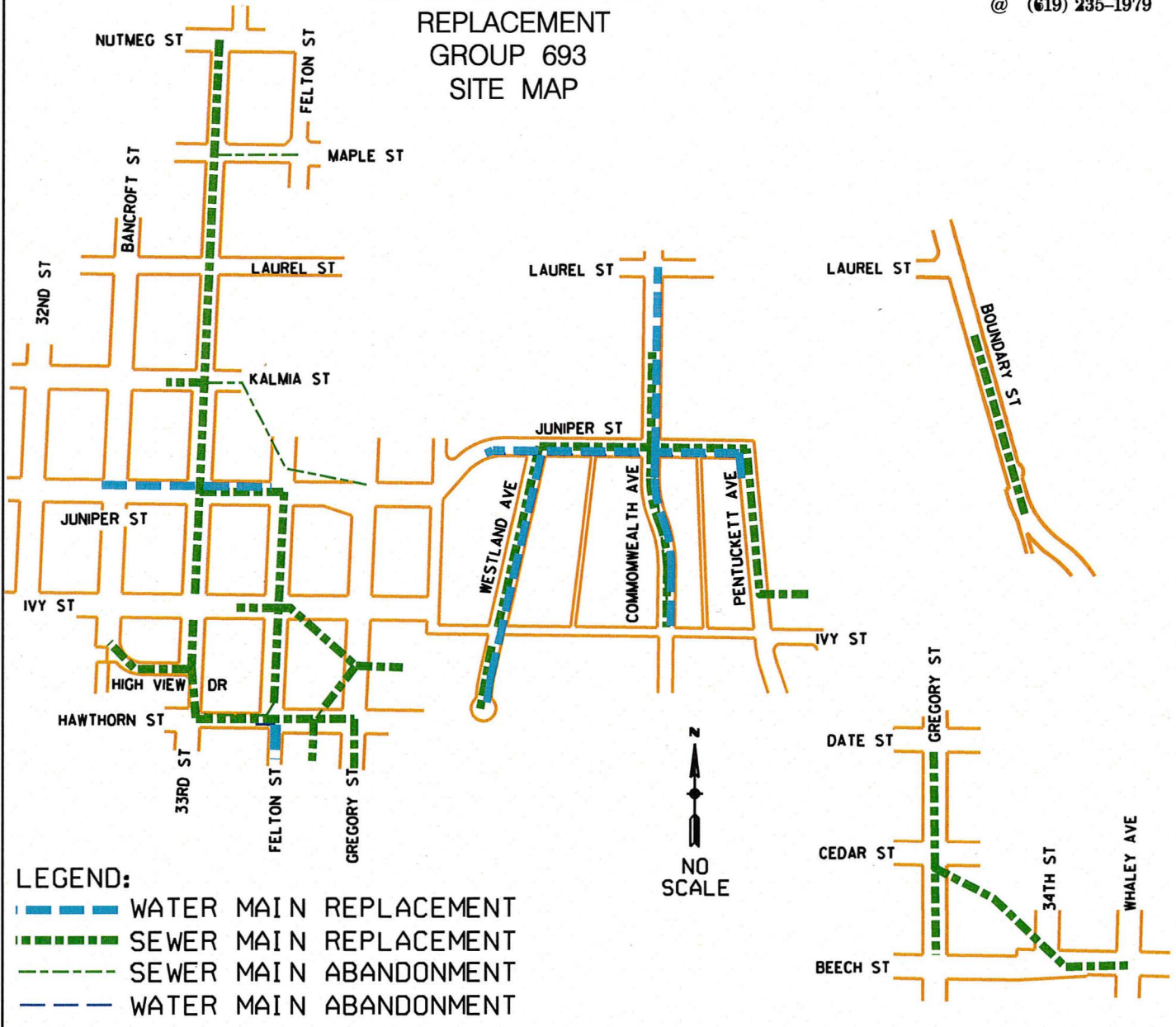


**PROJECT ENGINEER**  
**DANIEL TITTLE**  
 @ (619) 533-7468

**SENIOR ENGINEER**  
 Carl Spier, P.E.  
 @ (619) 533-5126

**PROJECT MANAGER**  
 Hung Huynh, P.E.  
 @ (619) 235-1979

**SEWER & WATER MAIN REPLACEMENT GROUP 693 SITE MAP**



2011/10/28 RM

CITY OF SAN DIEGO

# PUBLIC WORKS DEPARTMENT

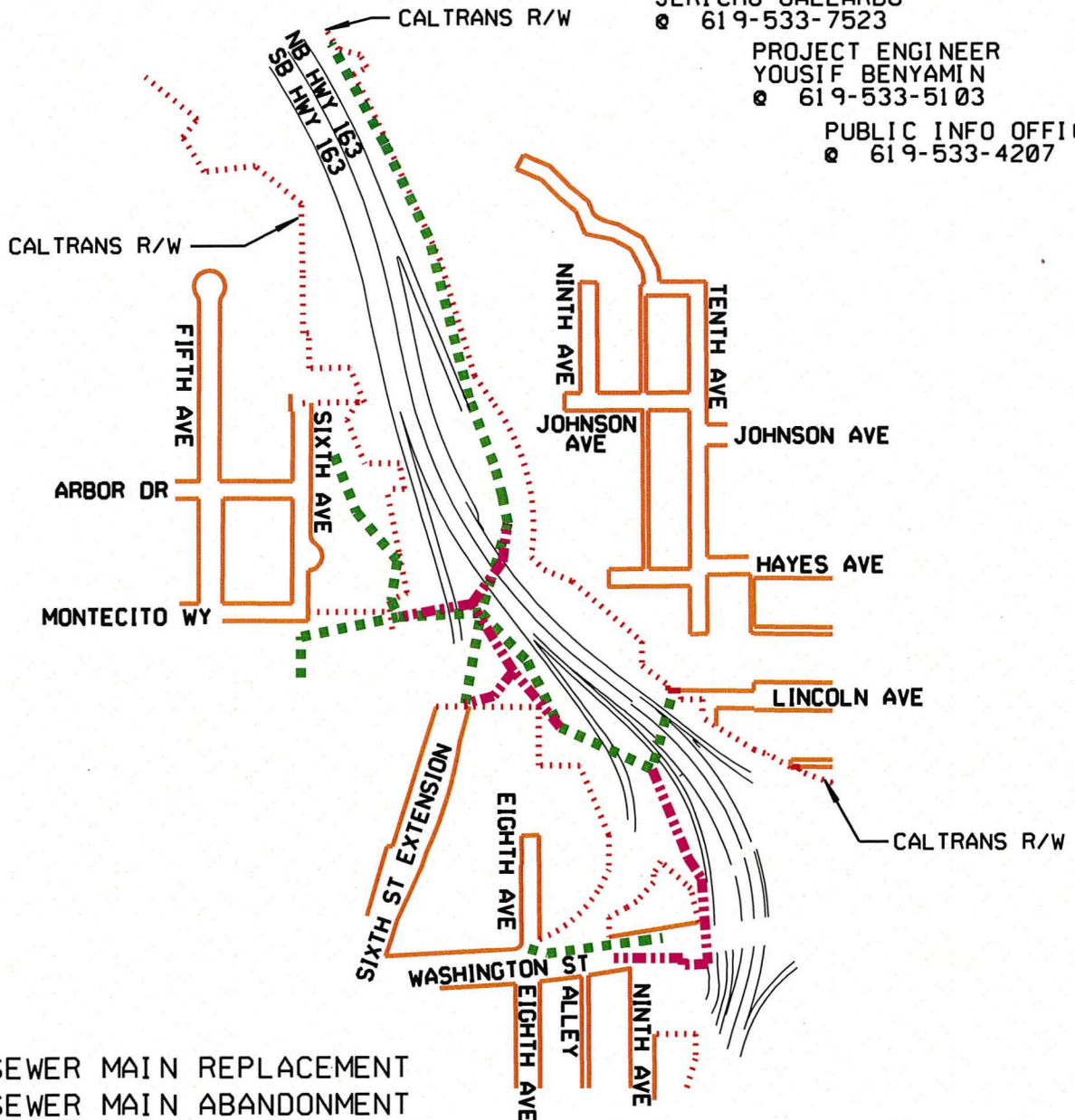
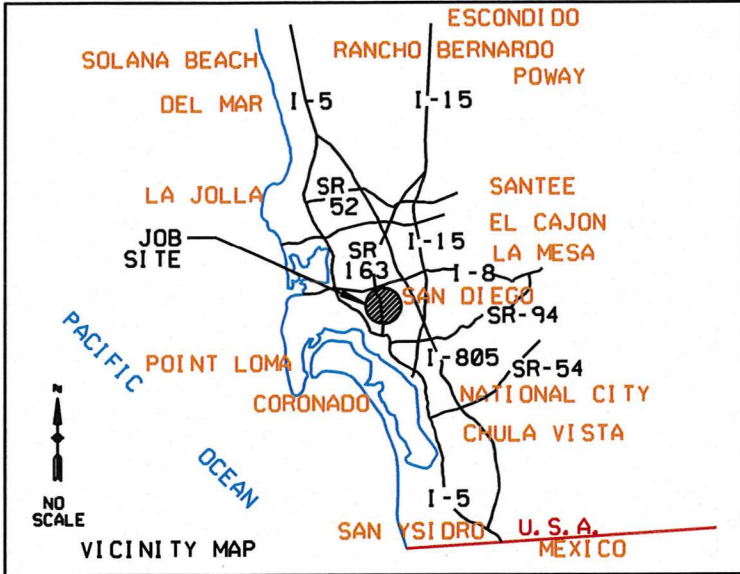
## SEWER MAIN REPLACEMENT BUCHANAN CANYON-B LOCATION MAP

SENIOR ENGINEER  
RANIA AMEN  
☎ 619-533-5492

PROJECT MANAGER  
JERICO GALLARDO  
☎ 619-533-7523

PROJECT ENGINEER  
YOUSIF BENYAMIN  
☎ 619-533-5103

PUBLIC INFO OFFICER  
☎ 619-533-4207



**LEGEND:**

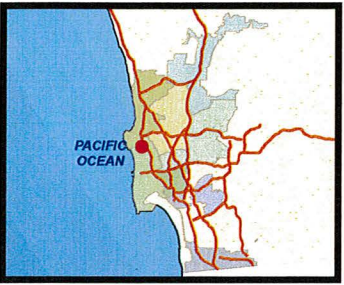
- SEWER MAIN REPLACEMENT
- SEWER MAIN ABANDONMENT

02-26-2013 ASV

COMMUNITY PLAN 56 • COUNCIL DISTRICT 03 • CIP\* B-00429



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# STORM DRAIN LINING GROUP JOB 1A LOCATION F

SENIOR ENGINEER  
JAMAL BATTA

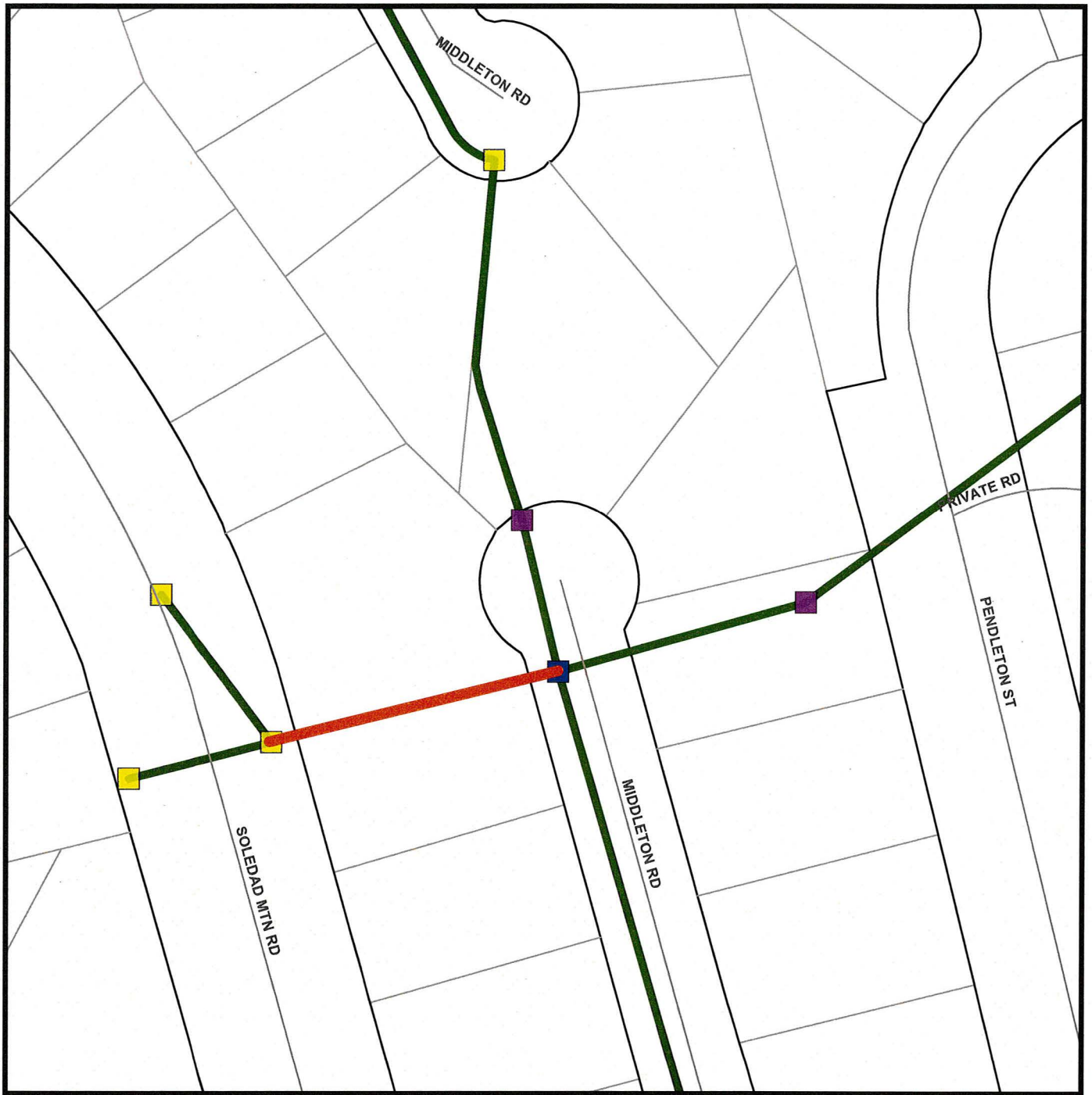
PROJECT MANAGER

PROJECT ENGINEER  
CASEY CROWN

CONSTRUCTION PROJECT  
INFORMATION LINE  
619-533-4207



**ROWD - DRAINAGE**



## Legend

- EXISTING STORM DRAIN
- PIPE NUMBER 14256 - 165ft 18" CMP

- Inlet
- Connect
- Cleanout



COMMUNITY NAME: PACIFIC BEACH

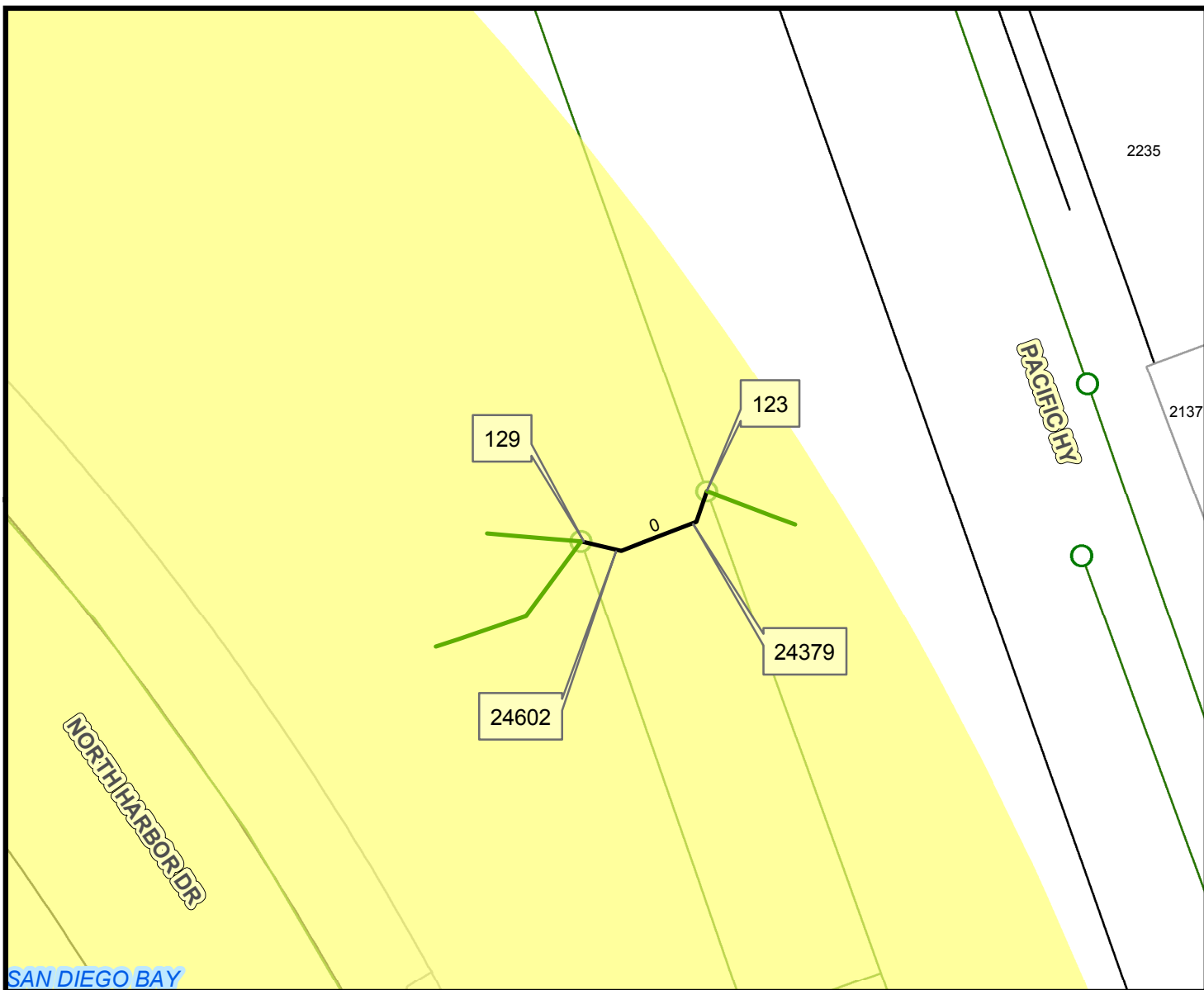
COUNCIL DISTRICT: 2

WBS#: B-00217

**APPENDIX G**  
**MORATORIUMS**

# PIPELINE REHABILITATION V-1

## MORATORIUM MAP



### Legend

- Rehab Mains
- Laterals
- Summer Beaches Moratorium

- Manhole ID
- Facility Sequence Number (FSN)



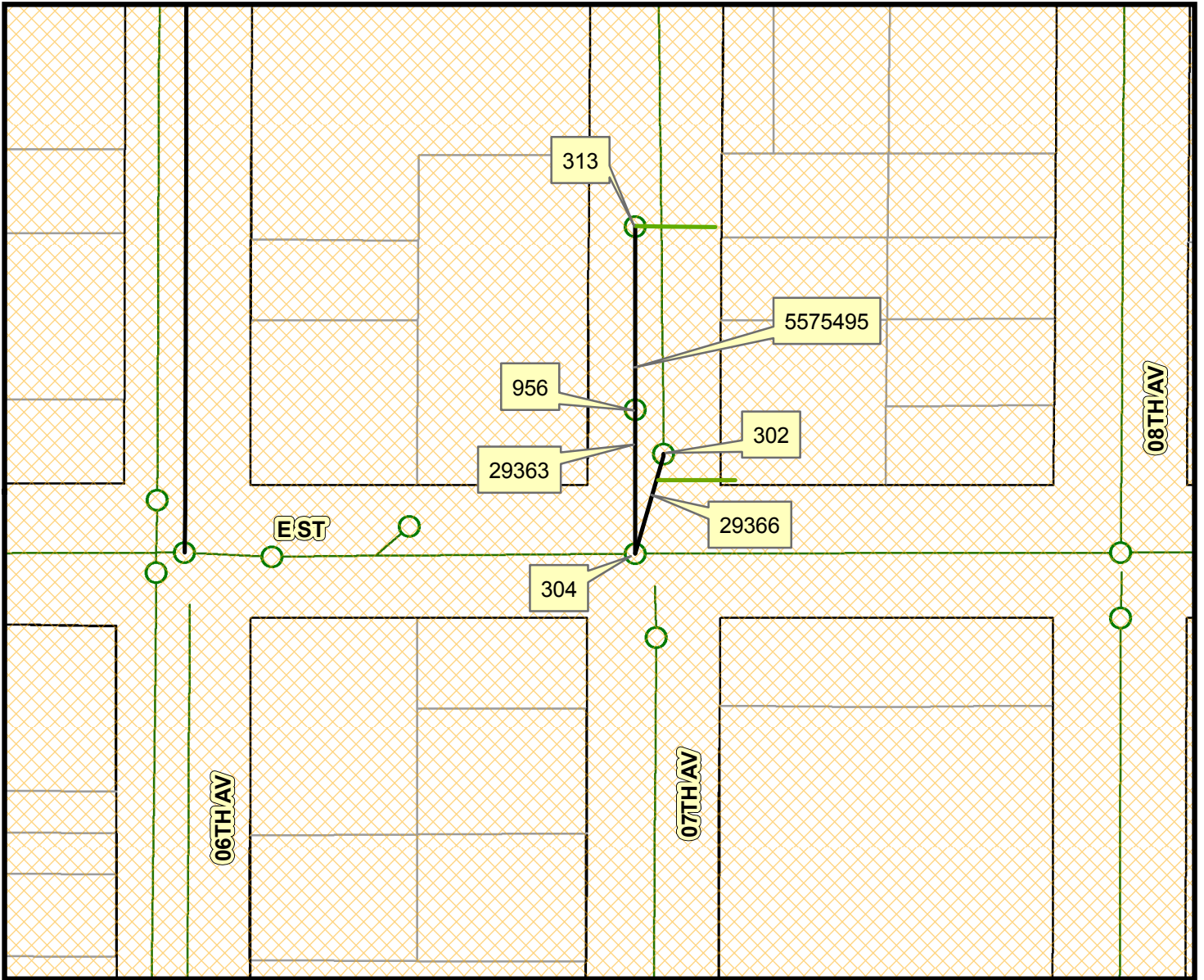
SHEET NO. 27	THOMAS BROS.: 1288J1
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# PIPELINE REHABILITATION V-1

## MORATORIUM MAP



### Legend

-  Rehab Mains
-  Laterals
-  Holiday Shopping Moratorium

 123 Manhole ID

 12345 Facility Sequence Number (FSN)



SHEET NO. 28	THOMAS BROS.: 1289A3, 1289B3
--------------	---------------------------------



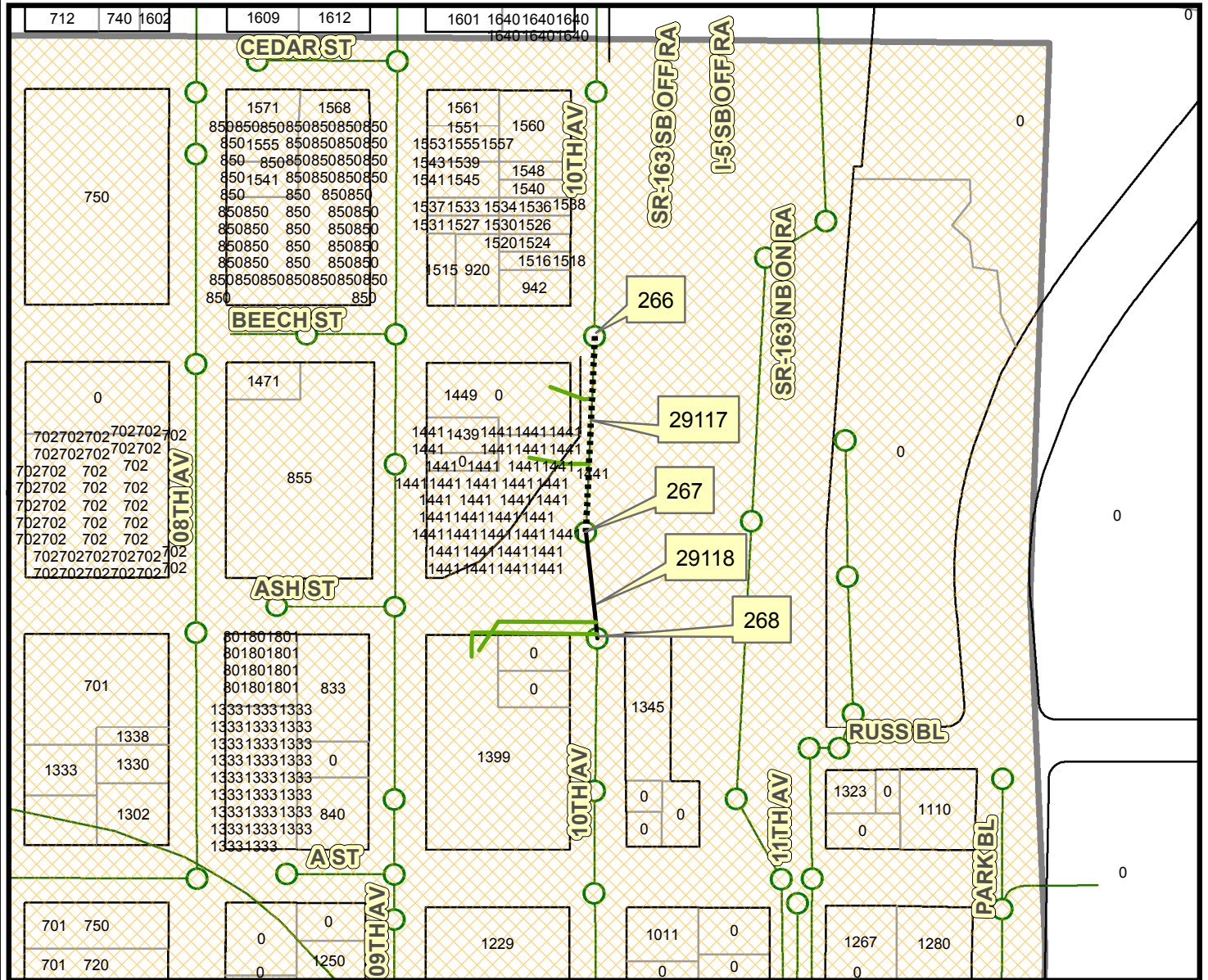
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# PIPELINE REHABILITATION V-1

## MORATORIUM MAP

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### Legend

- Rehab Mains
- ..... REHAB and POINT REPAIR
- Laterals
- XXXX Holiday Shopping Moratorium

123 Manhole ID

12345 Facility Sequence Number (FSN)



SHEET NO. 29	THOMAS BROS.: 1289B2
--------------	-------------------------



## APPENDIX H

### SEWER MAINS AND MANHOLES REHABILITATION SAMPLE DATA TEMPLATES

REHAB DATA COLLECTION - SEWER MAINS

FSN	REHAB DATE	LENGTH	INSIDE DIAM	FUNCTIONAL DIAM	LINING TYPE DESC	LINING METHOD DESC	REHAB CONTRACTOR DESC	REHAB MATERIAL VENDOR	COMMENTS	ACCEPTANCE DATE
65112	8/22/2006	312	8	7	PVC	SPIRAL WOUND	WESCO INFRA. TECHNOLOGIES,LP	RIBLOC	EXAMPLE - Leave this row in the table as it is.	8/22/2006

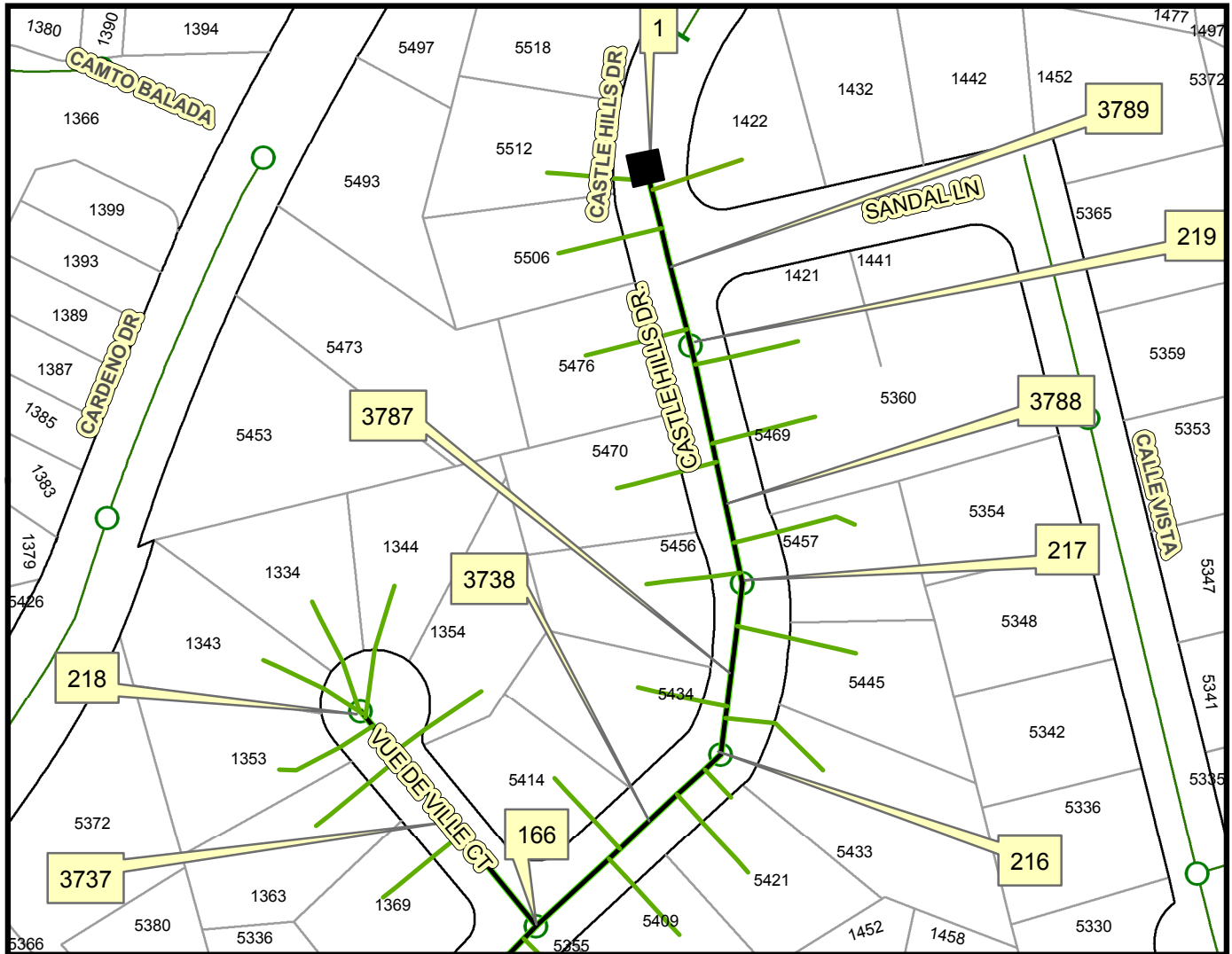


## **APPENDIX I**

### **PIPELINE REHABILITATION V-1 REHAB MAPS**



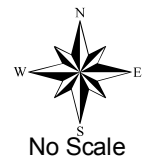
# PIPELINE REHABILITATION V-1



## Legend

- Proposed Clean Outs
- Laterals
- Rehab Mains

- Manhole ID
- Facility Sequence Number (FSN)



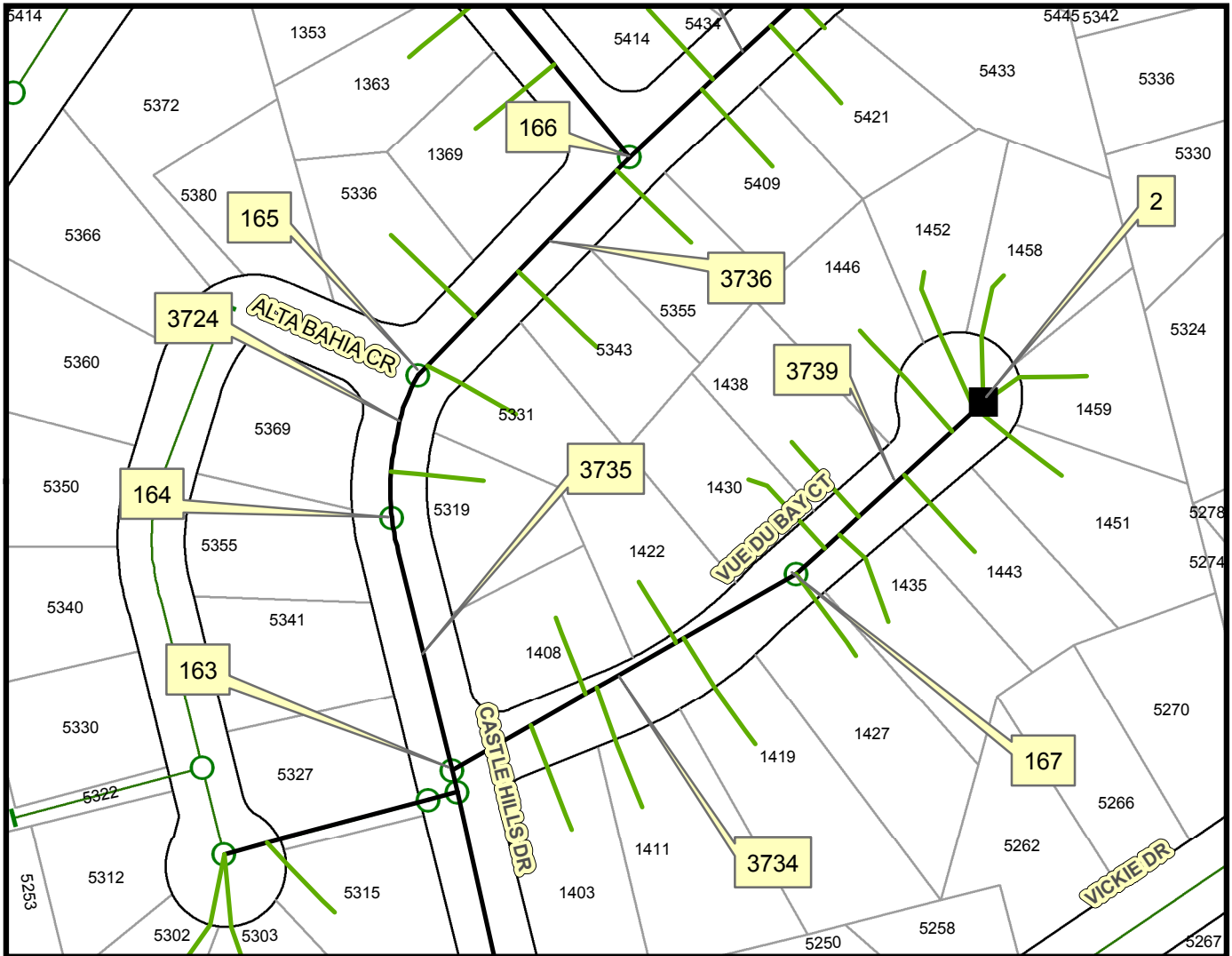
SHEET NO. 01	THOMAS BROS.: 1247J3 & 1247J4 88 Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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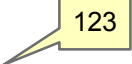
# PIPELINE REHABILITATION V-1



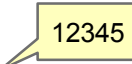
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## Legend

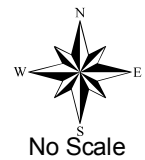
- Proposed Clean Outs
- Rehab Mains
- Laterals



Manhole ID



Facility Sequence Number (FSN)



SHEET NO. 02

THOMAS BROS.:  
 1247J3 & 1247J4  
 89 | Page

Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: PACIFIC BEACH

COUNCIL DISTRICT: 2

SAP ID: B-13013 (S)

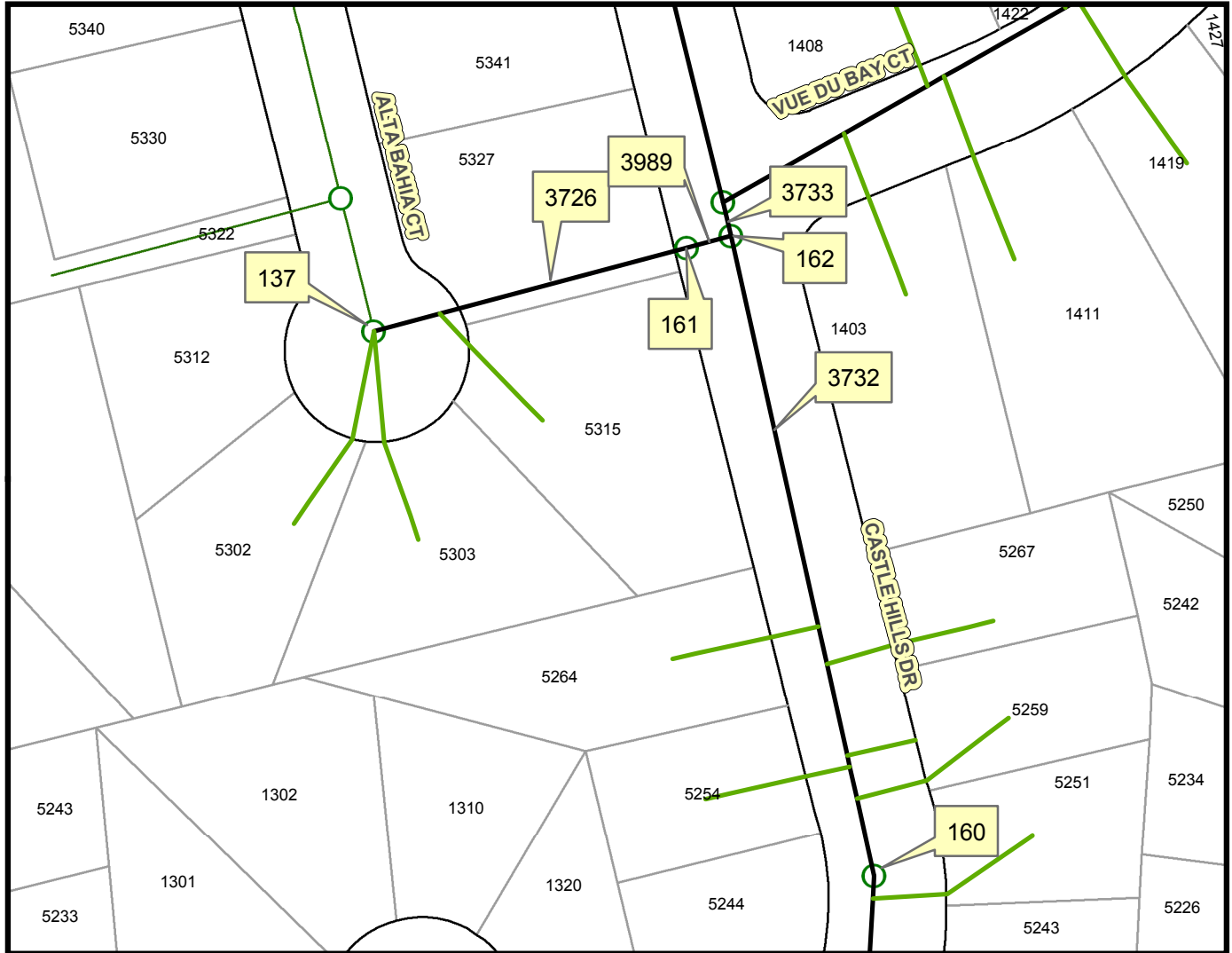
Date: April 17, 2013







# PIPELINE REHABILITATION V-1



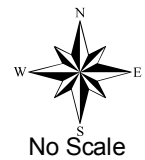
## Legend

— Rehab Mains

— Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



SHEET NO. 03

THOMAS BROS.:  
 1247J4  
 90 | Page

Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: PACIFIC BEACH

COUNCIL DISTRICT: 2

SAP ID: B-13013 (S)

Date: April 17, 2013

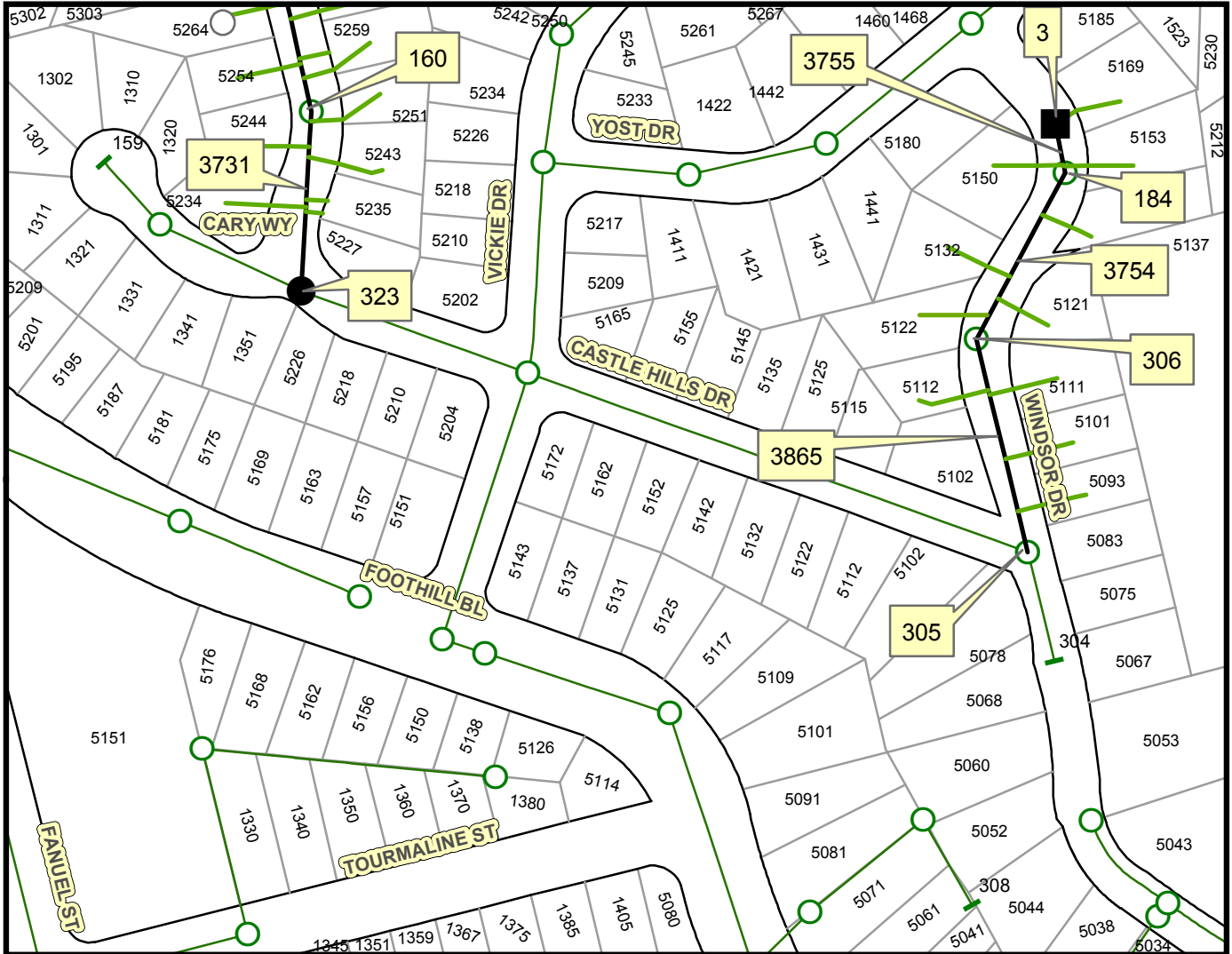


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# PIPELINE REHABILITATION V-1



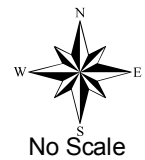
## Legend

- Proposed\_Rehab\_Manhole
- Proposed Clean Outs

- Rehab Mains
- Laterals

Manhole ID

Facility Sequence Number (FSN)



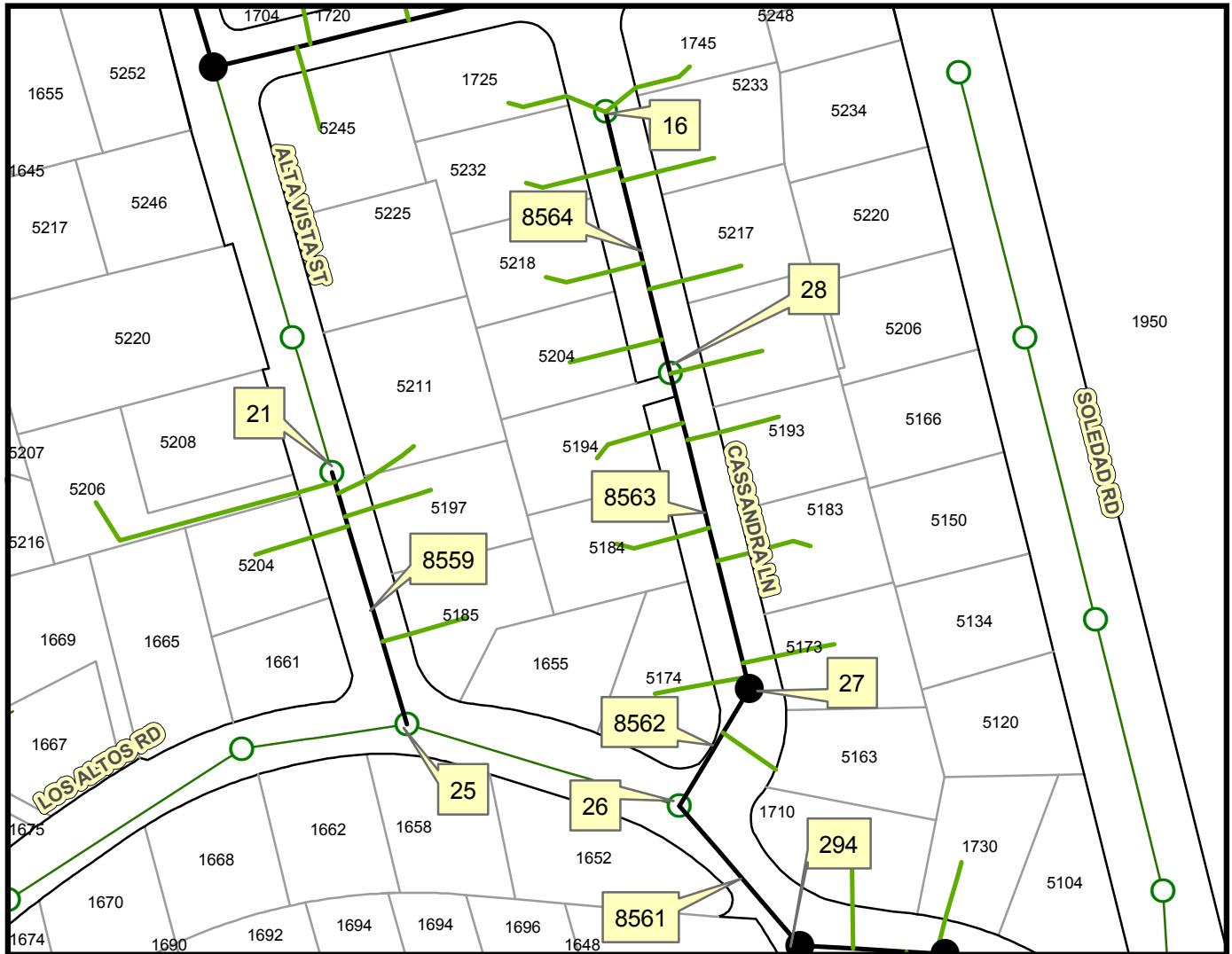
SHEET NO. 04	THOMAS BROS.: 1247J4
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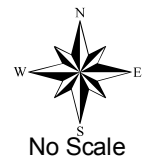


# PIPELINE REHABILITATION V-1



## Legend

- Proposed Rehab Manhole
- Rehab Mains
- Laterals
- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)



SHEET NO. 05	THOMAS BROS.: 1247J4 & 1248A4 92   Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: PACIFIC BEACH

COUNCIL DISTRICT: 2

SAP ID: B-13013 (S)

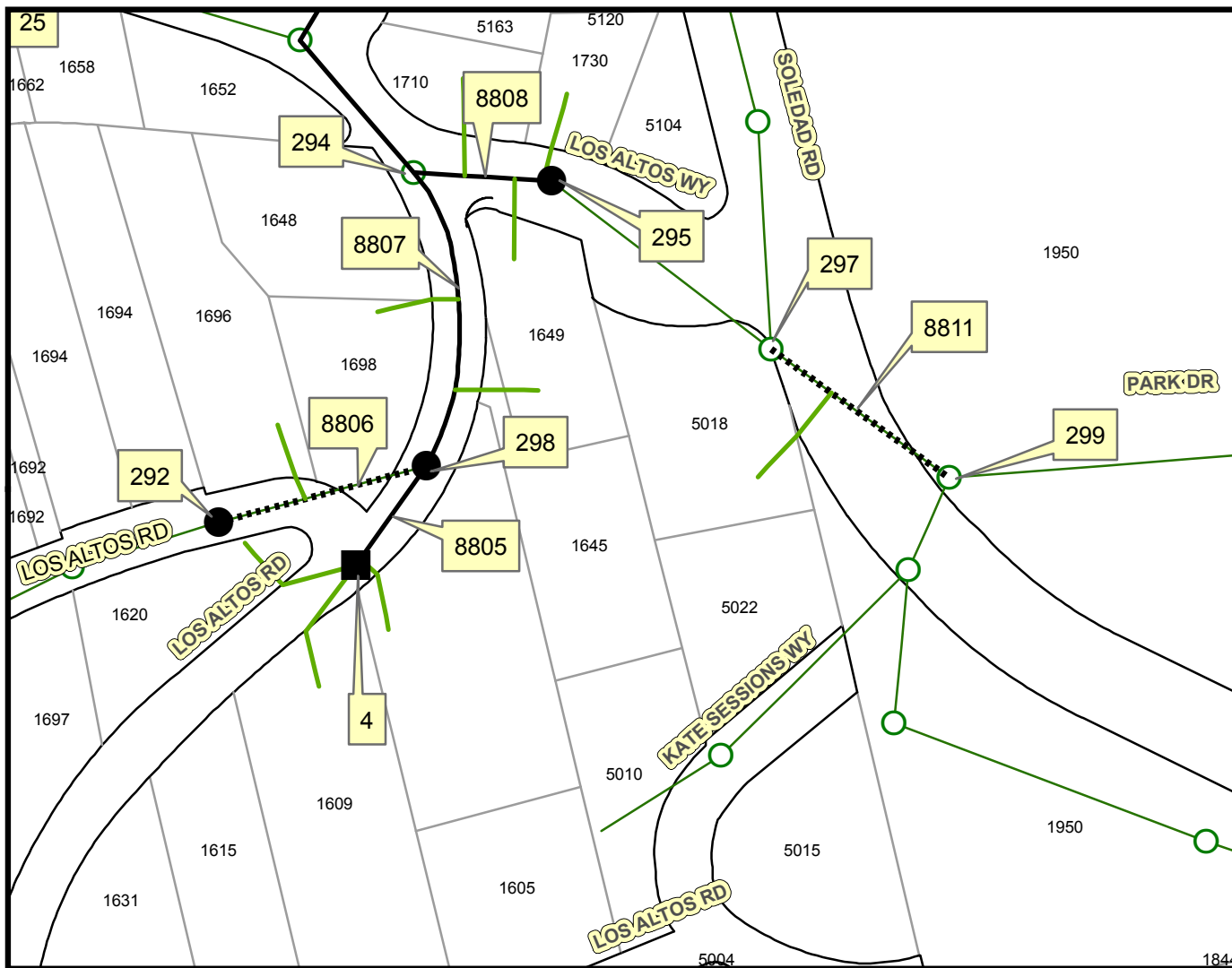
Date: April 17, 2013



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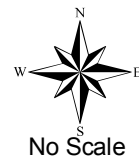
# PIPELINE REHABILITATION V-1



## Legend

- Proposed\_Rehab\_Manhole
- Rehab Mains
- - - - REHAB and POINT REPAIR
- Laterals

- Facility Sequence Number (FSN)
- Manhole ID



Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

SHEET NO. 06

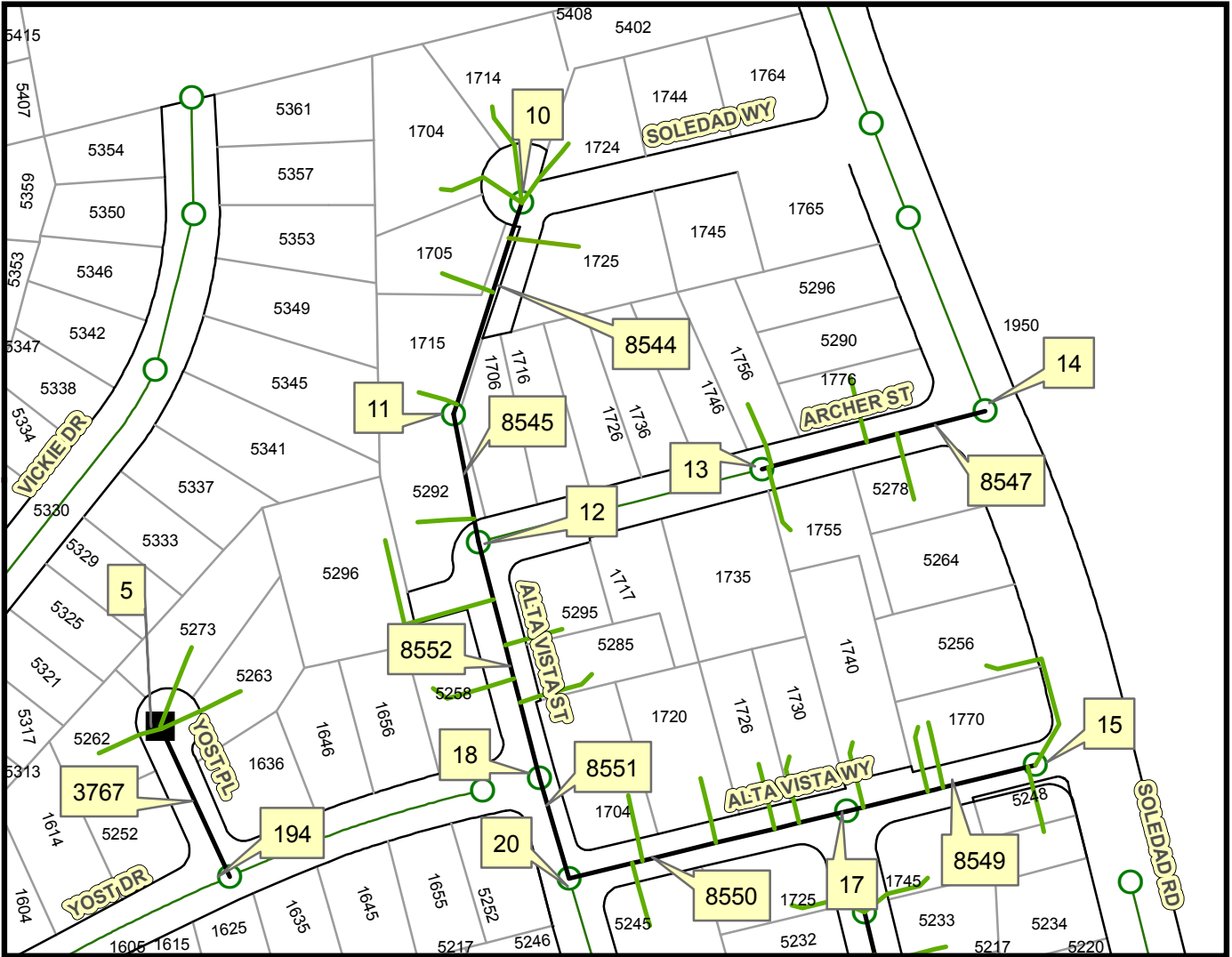
THOMAS BROS.:  
 1247J4 & 1248A4  
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### Legend

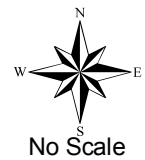
— Rehab Mains

- - - Laterals

■ Proposed Clean Outs

123 Manhole ID

12345 Facility Sequence Number (FSN)



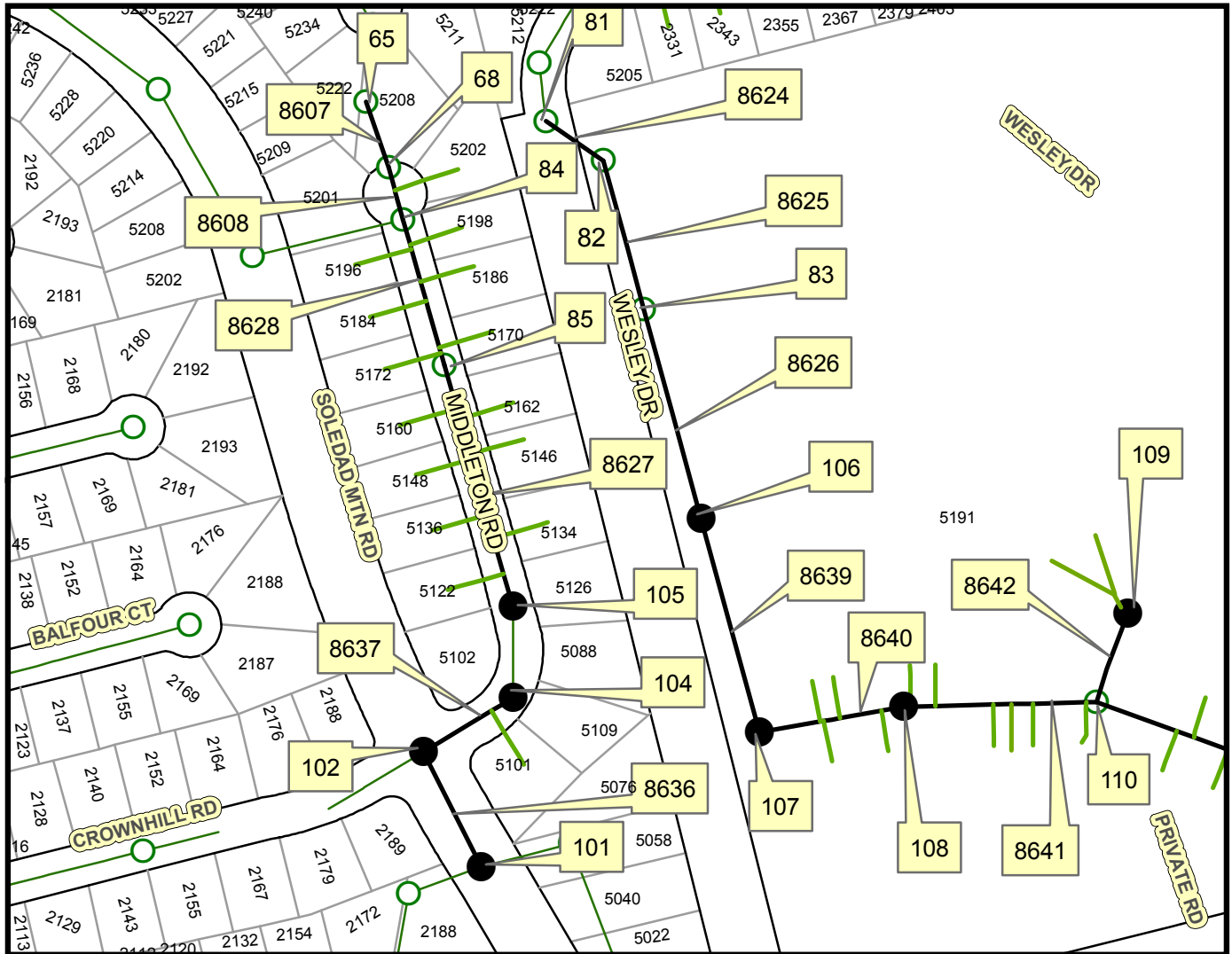
SHEET NO. 07	THOMAS BROS.: 1248A3 & 1248A4 1248J3 & 1248J4
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps





# PIPELINE REHABILITATION V-1

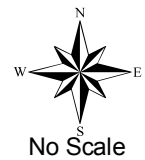


## Legend

- Proposed\_Rehab\_Manhole
- Rehab Mains
- Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)

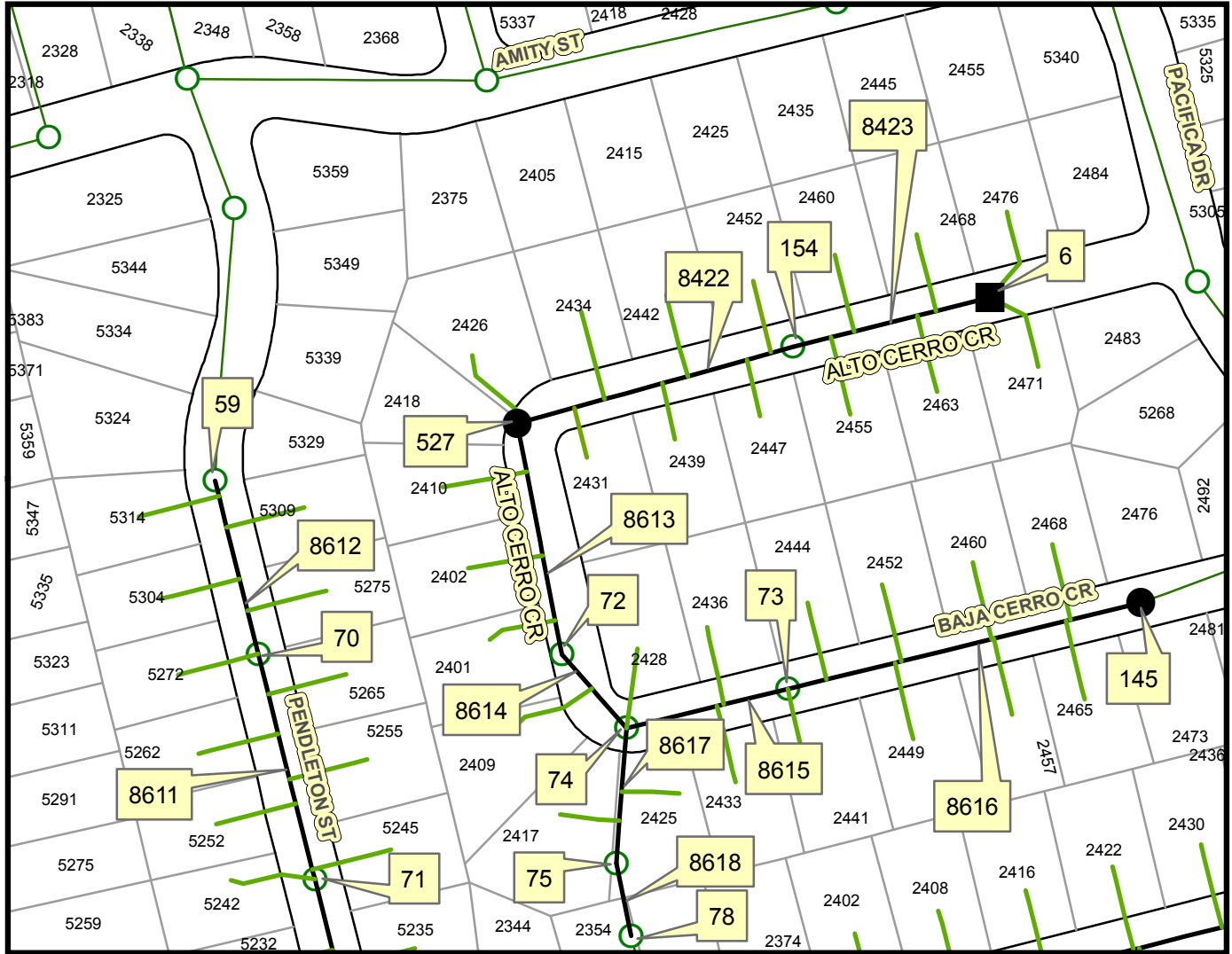


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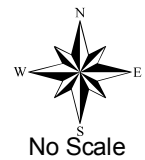


# PIPELINE REHABILITATION V-1



## Legend

- Proposed Rehab Manhole
- Proposed Clean Outs
- Rehab Mains
- Laterals
- 12345 Manhole ID
- 12345 Facility Sequence Number (FSN)



SHEET NO. 09	THOMAS BROS.: 1248B4 96  Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: PACIFIC BEACH

COUNCIL DISTRICT: 2

SAP ID: B-13013 (S)

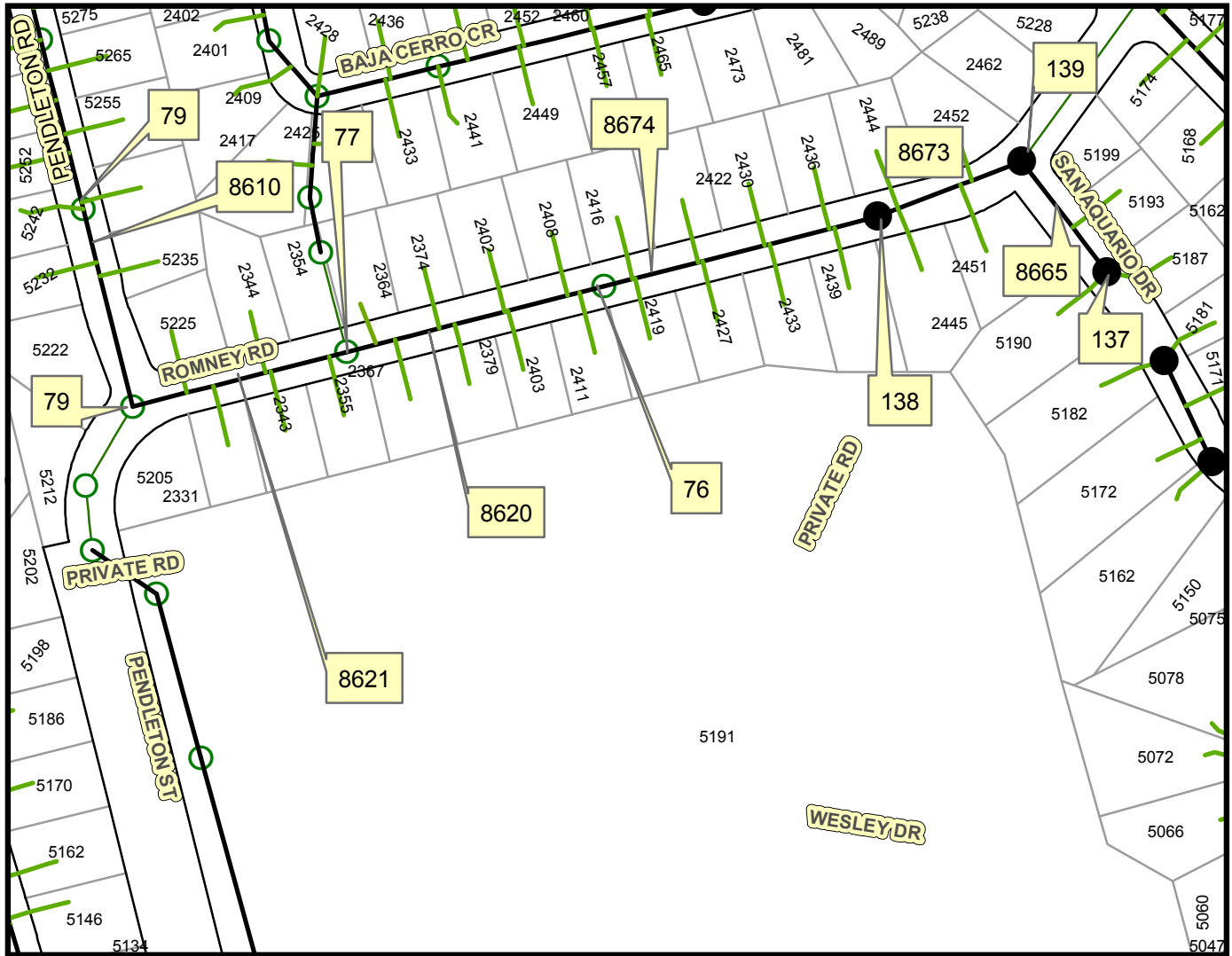
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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Rehab Manhole
- Rehab Mains
- Laterals
- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)



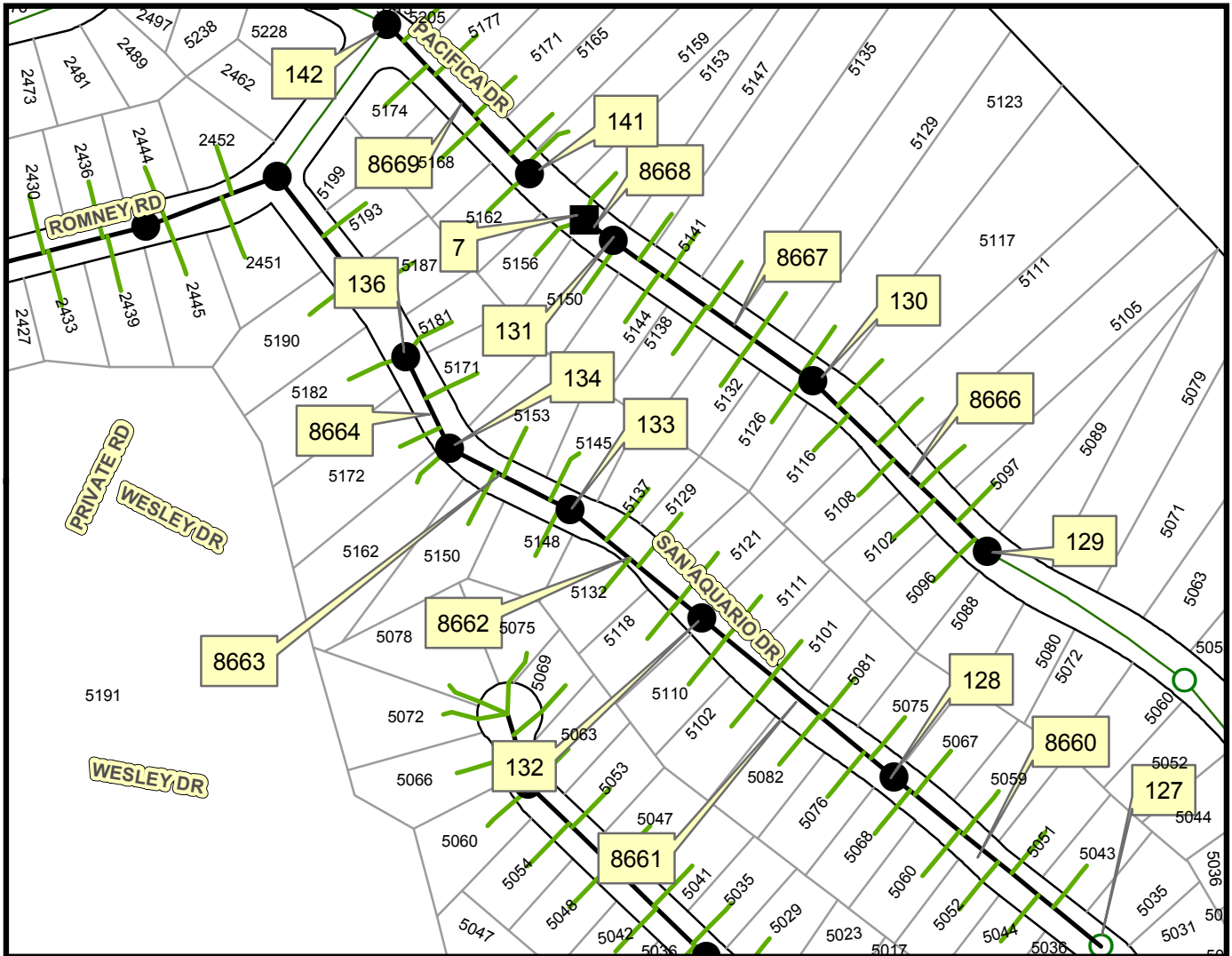
SHEET NO. 10	THOMAS BROS.: 1248B4 971 Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps



# PIPELINE REHABILITATION V-1

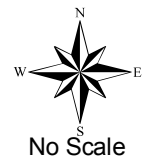


## Legend

- Proposed Rehab Manhole
- Proposed Clean Outs
- Rehab Mains
- Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



SHEET NO. 11

THOMAS BROS.:  
1248 B4  
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: PACIFIC BEACH

COUNCIL DISTRICT: 2

SAP ID: B-13013 (S)

Date: April 17, 2013

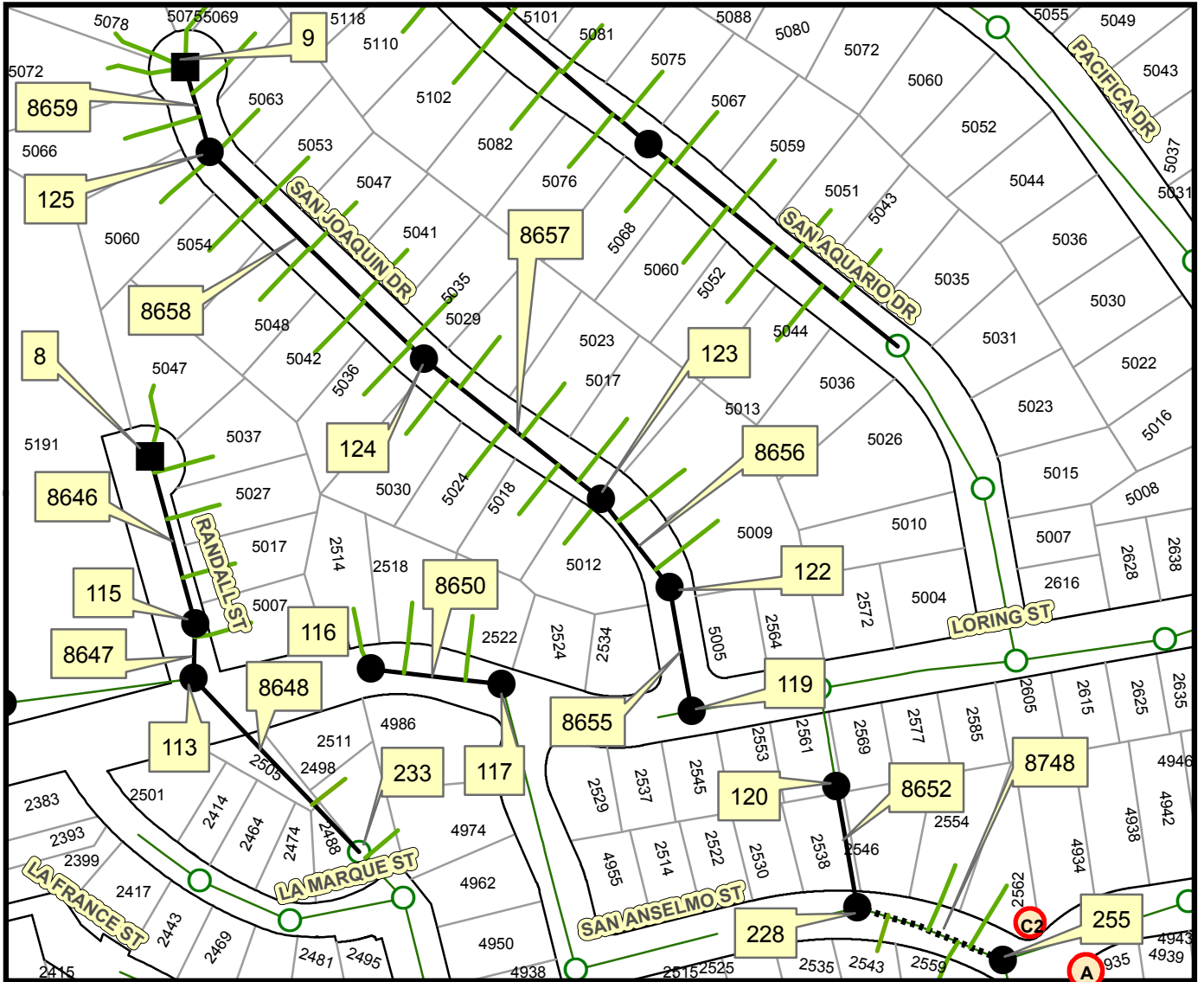


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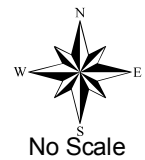


# PIPELINE REHABILITATION V-1



## Legend

- Proposed Rehab Manhole
- Proposed Clean Outs
- Rehab Mains
- ..... REHAB and POINT REPAIR
- Laterals
- 12345 Manhole ID
- Ⓐ Curb Ramp A
- Ⓒ Curb Ramp C2



12345 Facility Sequence Number (FSN)

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THOMAS BROS.:  
 1248B3 & 1248B4  
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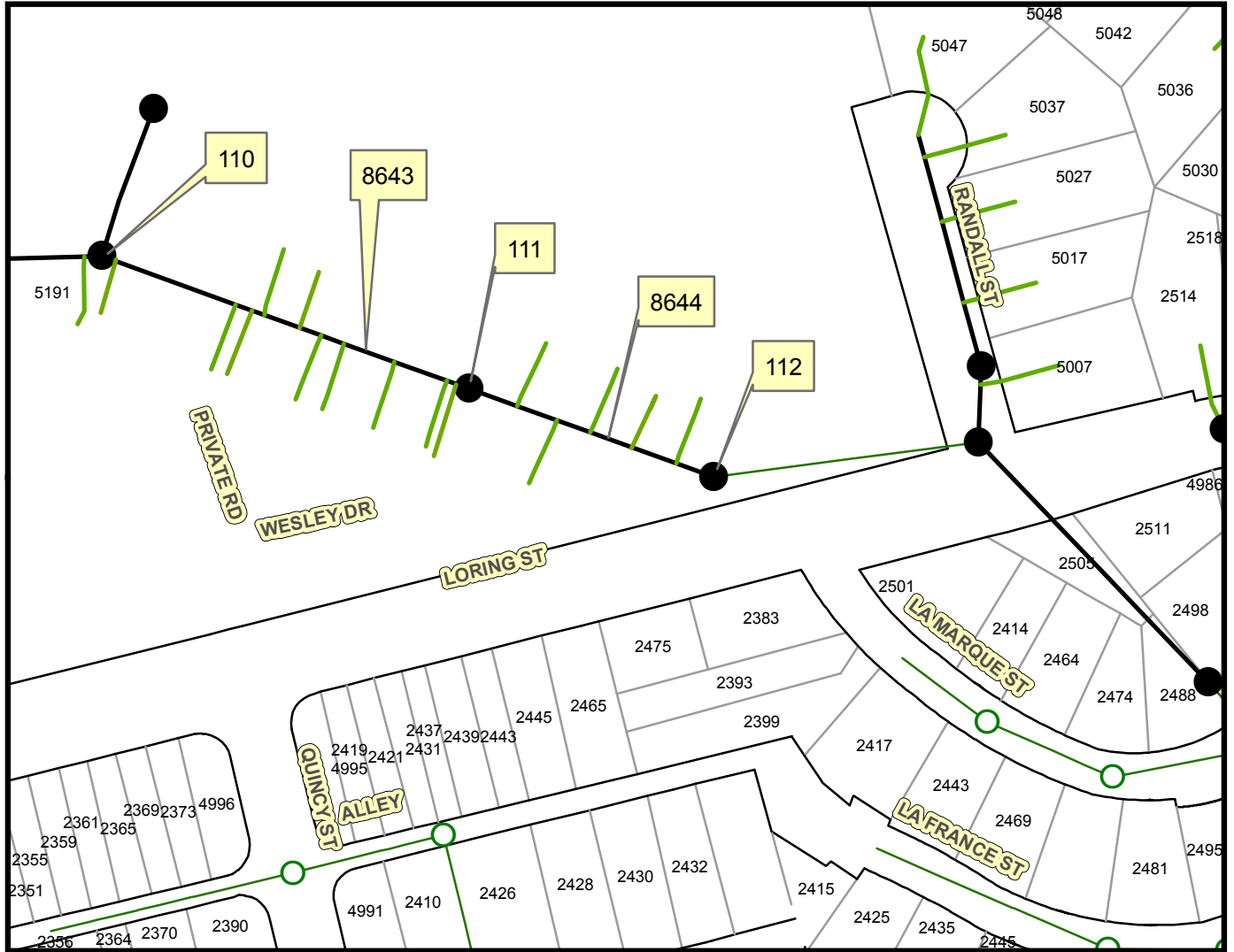
Appendix I - Pipeline Rehabilitation V-1 Rehab Maps



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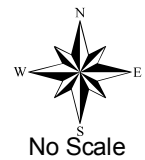
# PIPELINE REHABILITATION V-1



## Legend

- Proposed Rehab Manhole
- Rehab Mains
- Laterals

- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)



SHEET NO. 13

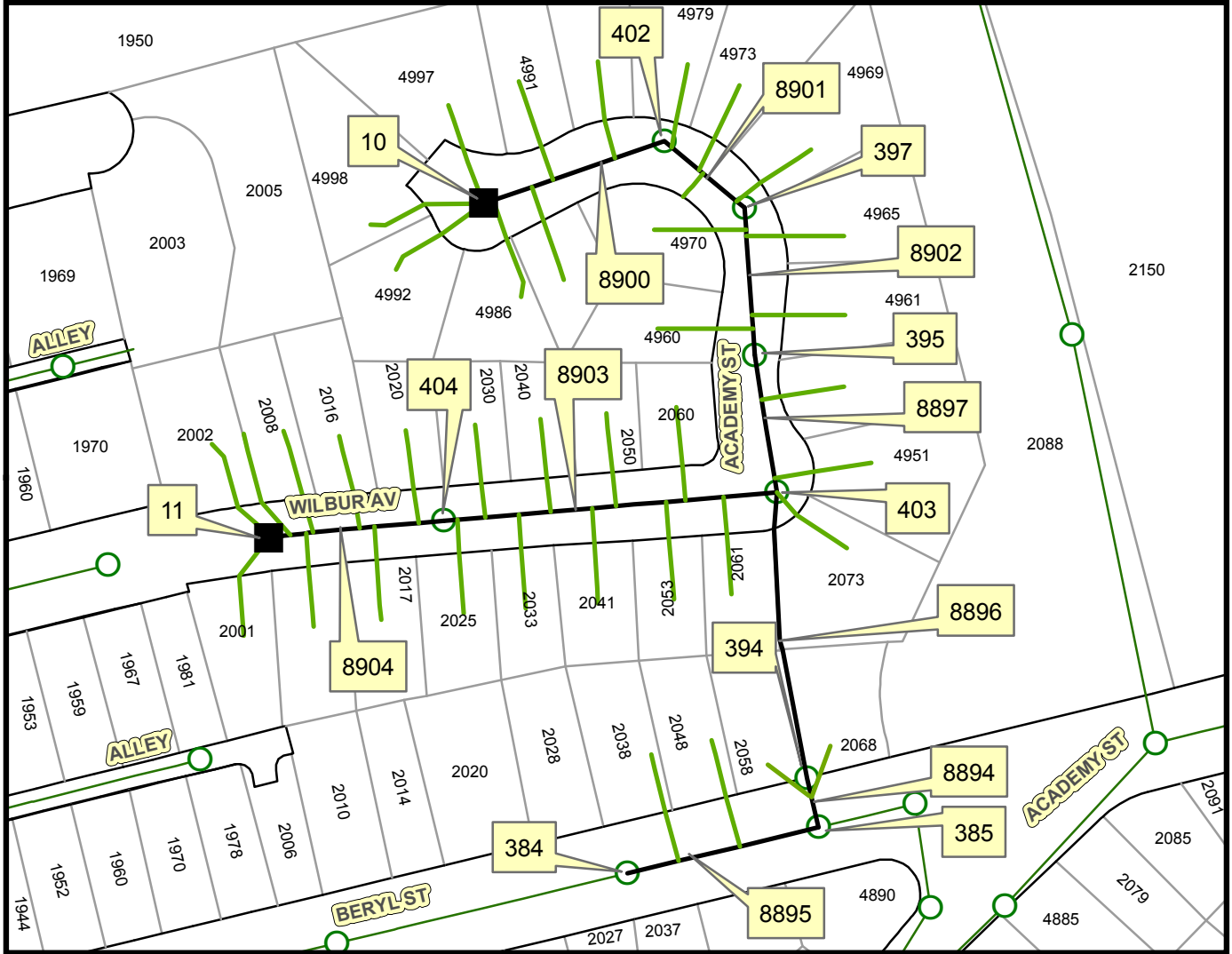
THOMAS BROS.:  
 1248B4 & 1248C4  
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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Clean Outs
- Rehab Mains
- Laterals

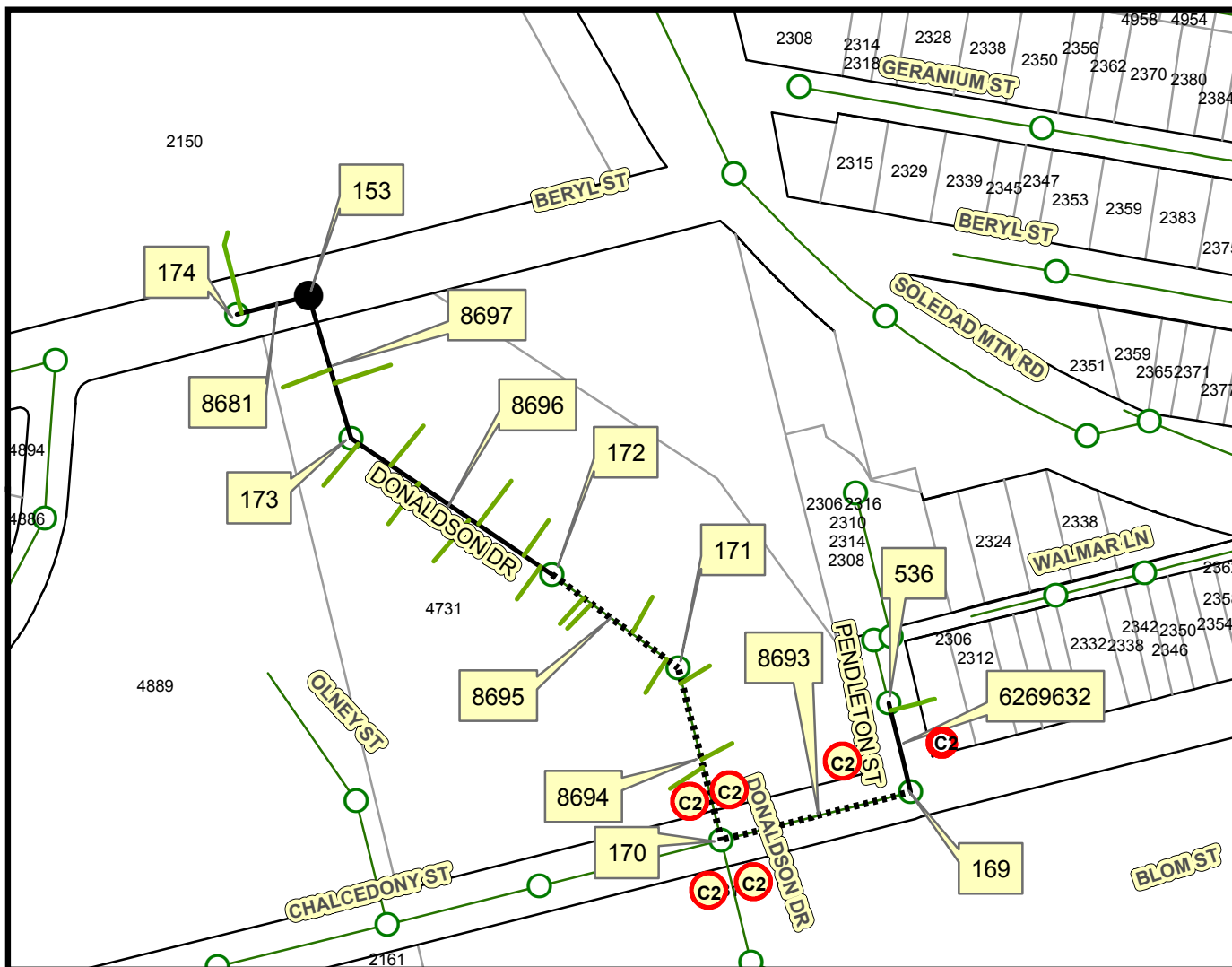
- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)



SHEET NO. 14	THOMAS BROS.: 1248B4 & 1248A4 101   Page
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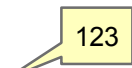

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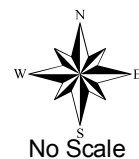


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## Legend

- Proposed\_Rehab\_Manholes
- Rehab Mains
- REHAB and POINT REPAIR
- Laterals

-  Manhole ID
-  Facility Sequence Number (FSN)

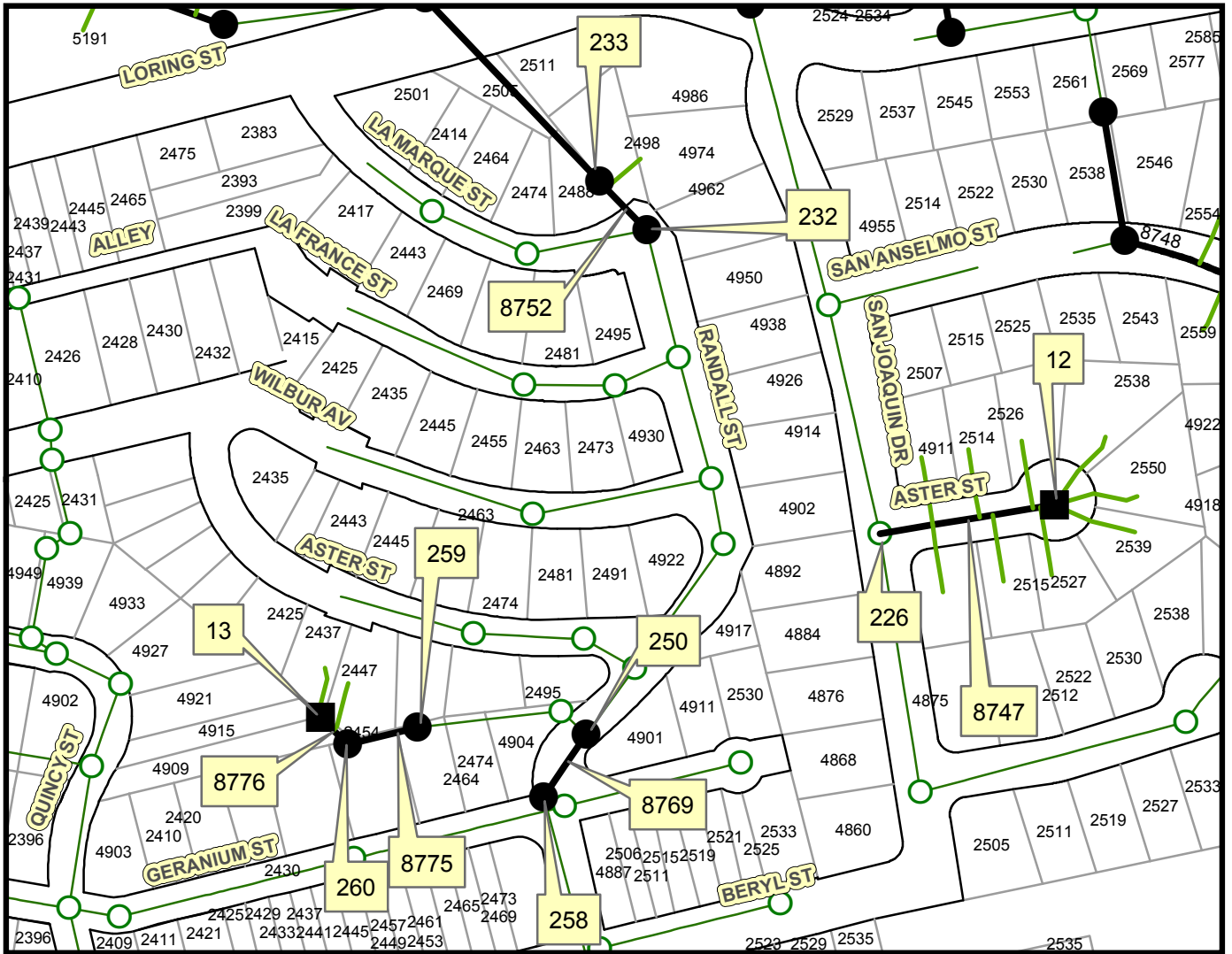


SHEET NO. 15

THOMAS BROS.:  
 1248B4 & 1248B5  
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# PIPELINE REHABILITATION V-1



## Legend

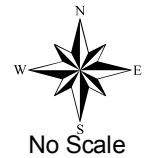
● Proposed\_Rehab\_Manholes

■ Proposed Clean Outs

— Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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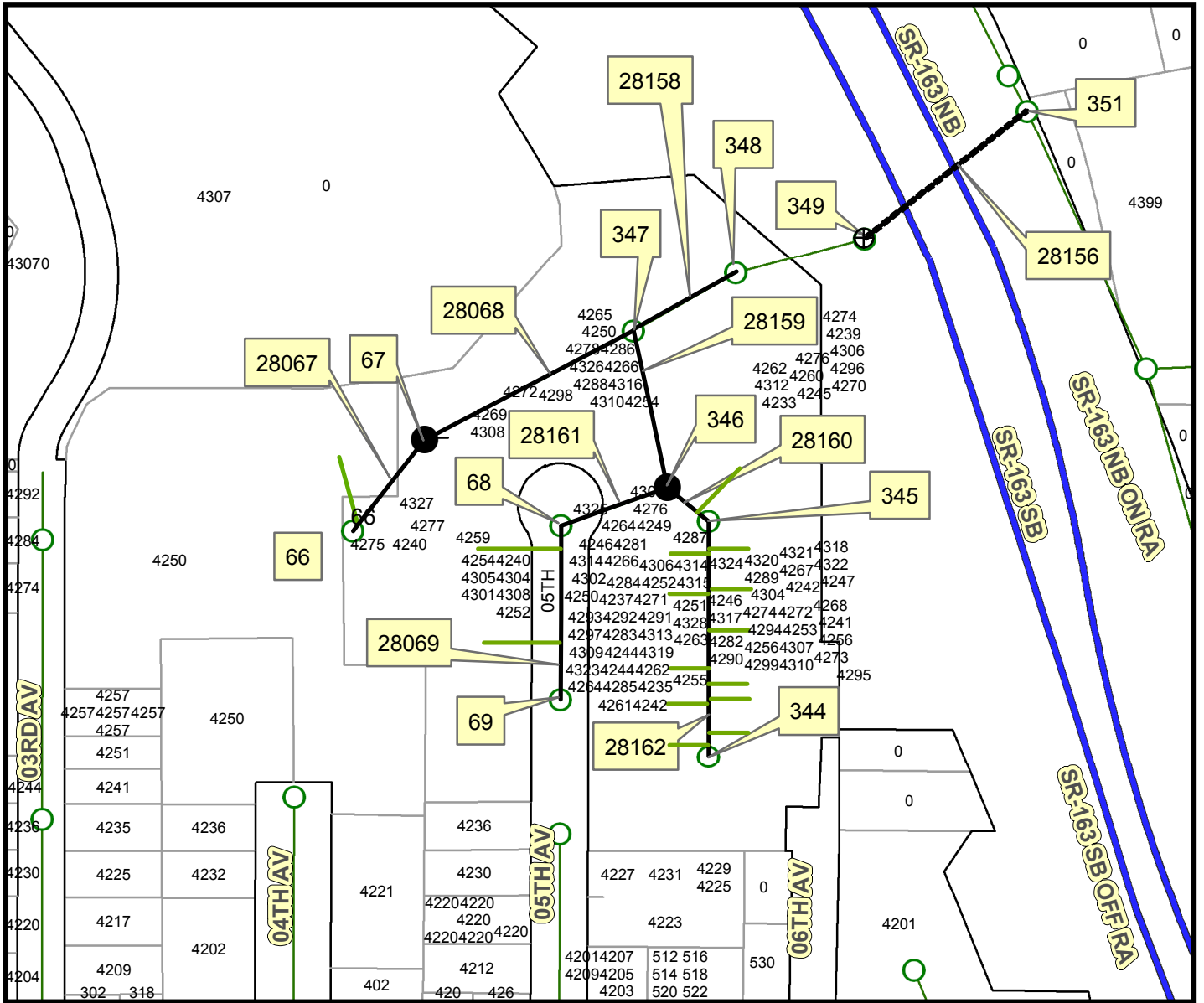
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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Rehab Manhole
- ⊕ Replace Manhole
- REHAB and POINT REPAIR
- Rehab Mains
- Laterals



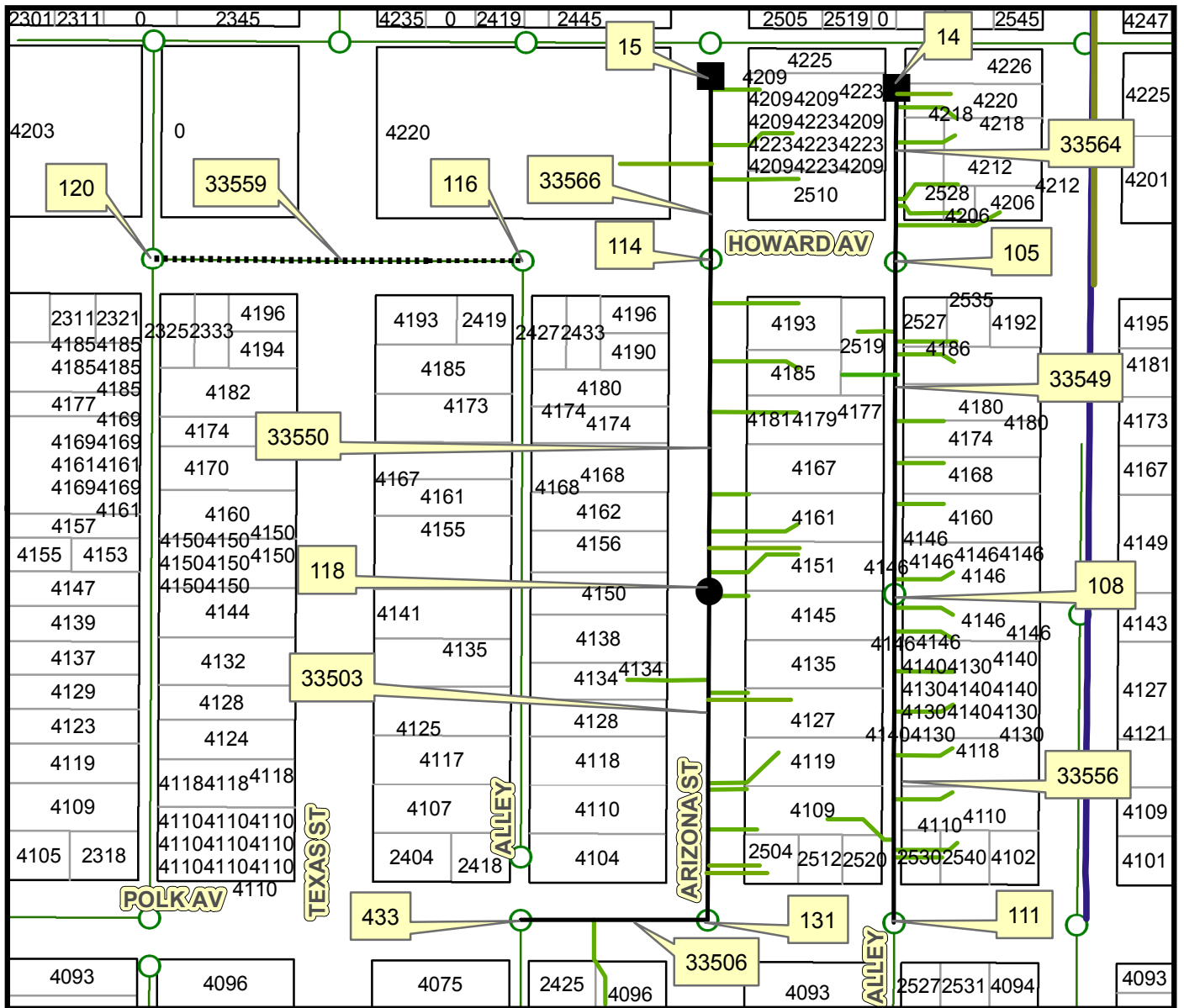
- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)

SHEET NO. 17	THOMAS BROS.: 1269A4 104 Page
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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Clean Outs
- Proposed Rehab Manhole
- Rehab Mains
- REHAB and POINT REPAIR
- Laterals
- Manhole ID
- Facility Sequence Number (FSN)



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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: GREAT NORTH PARK

COUNCIL DISTRICT: 3

SAP ID: B13013 (S)

Date: April 17, 2013

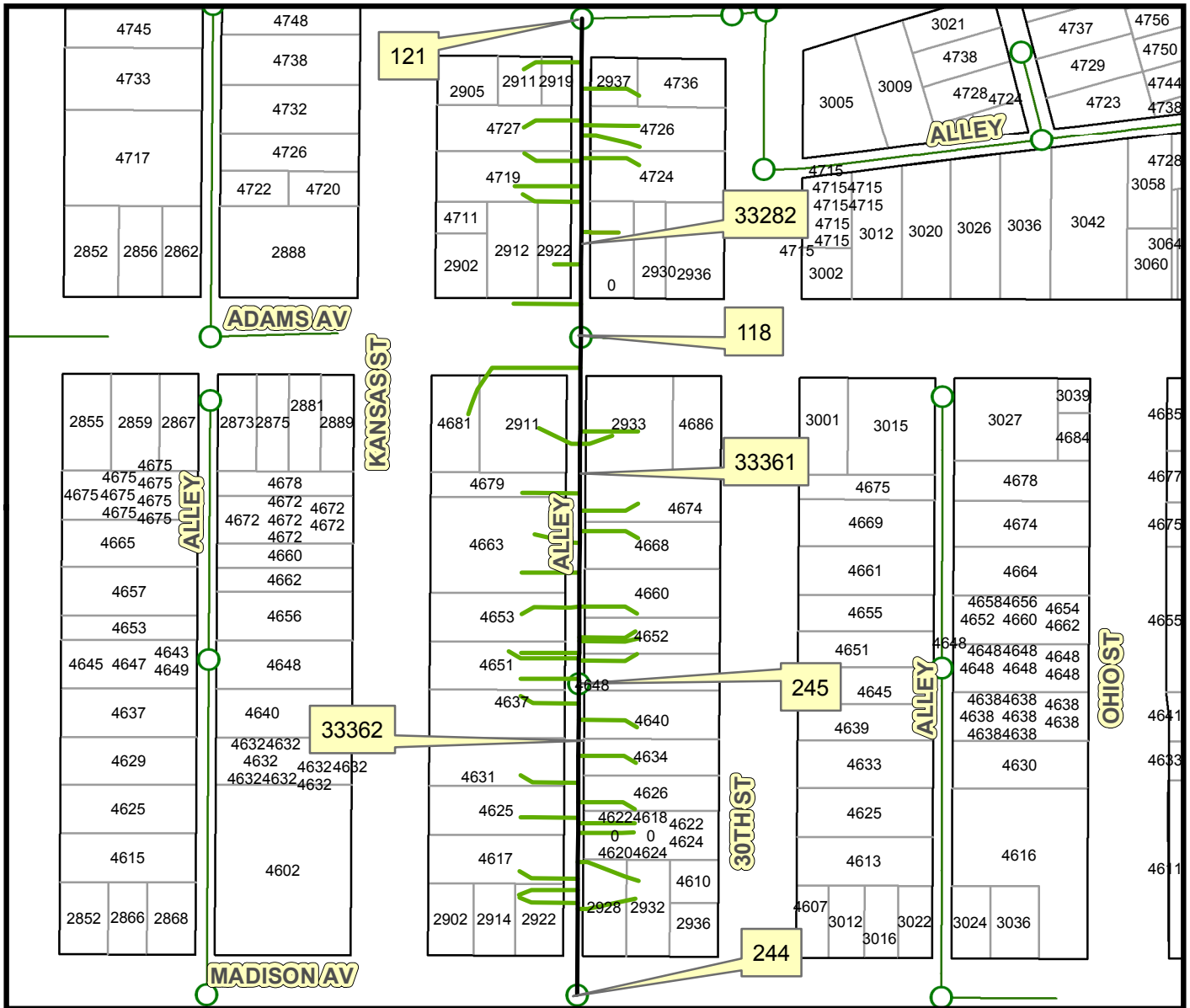


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# PIPELINE REHABILITATION V-1



## Legend

— Rehab Mains

— Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



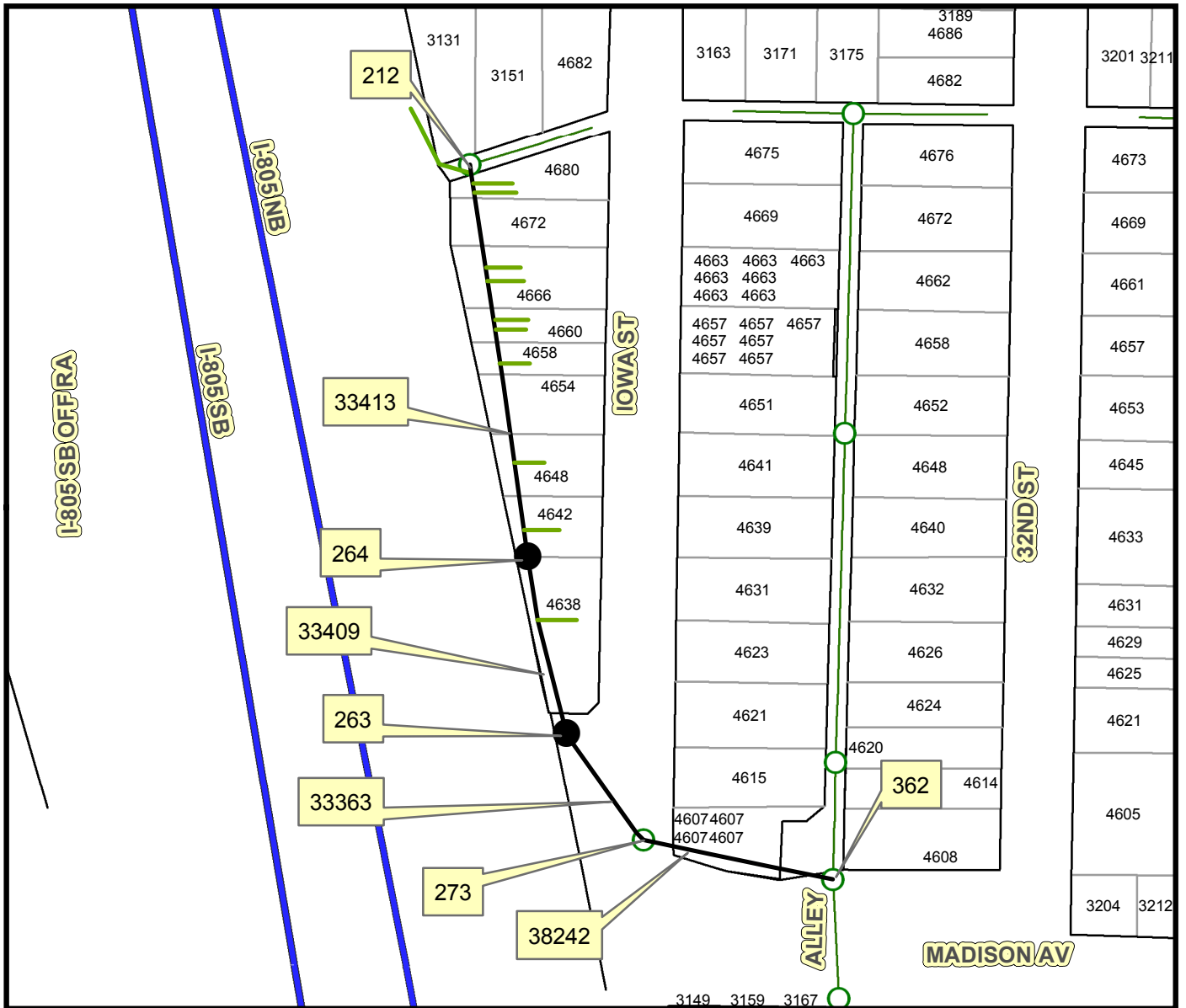
SHEET NO. 19	THOMAS BROS.: 1269E3 106 Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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# PIPELINE REHABILITATION V-1



## Legend

● Proposed Rehab Manholes

— Rehab Mains

— Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: GREAT NORTH PARK, MID CITY COUNCIL DISTRICT: 3

SAP ID: B13013 (S)

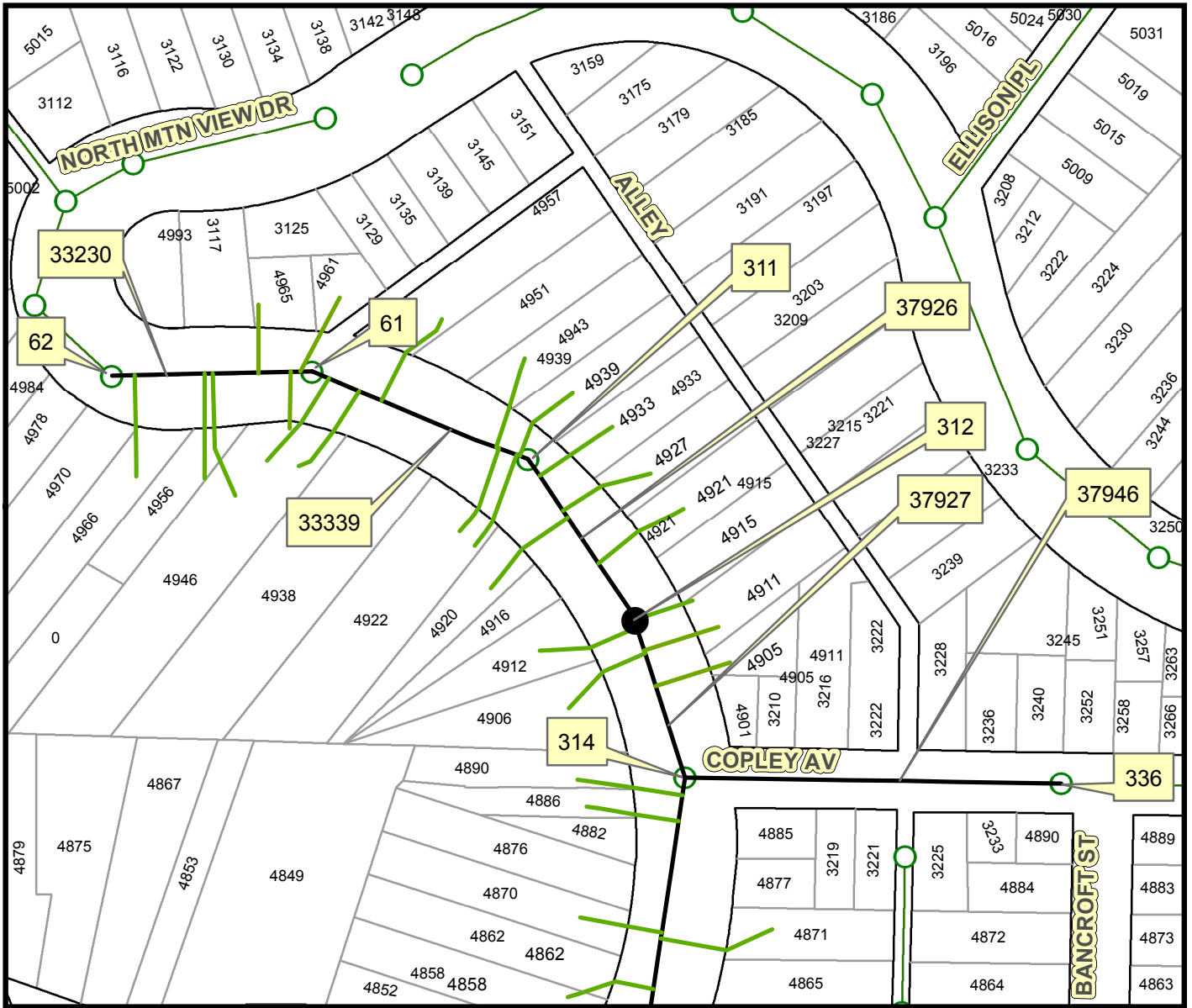
Date: April 17, 2013



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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Rehab Manholes
- Rehab Mains
- Laterals

- Manhole ID
- Facility Sequence Number (FSN)



Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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COMMUNITY NAME: GREAT NORTH PARK

COUNCIL DISTRICT: 3

SAP ID: B13013 (S)

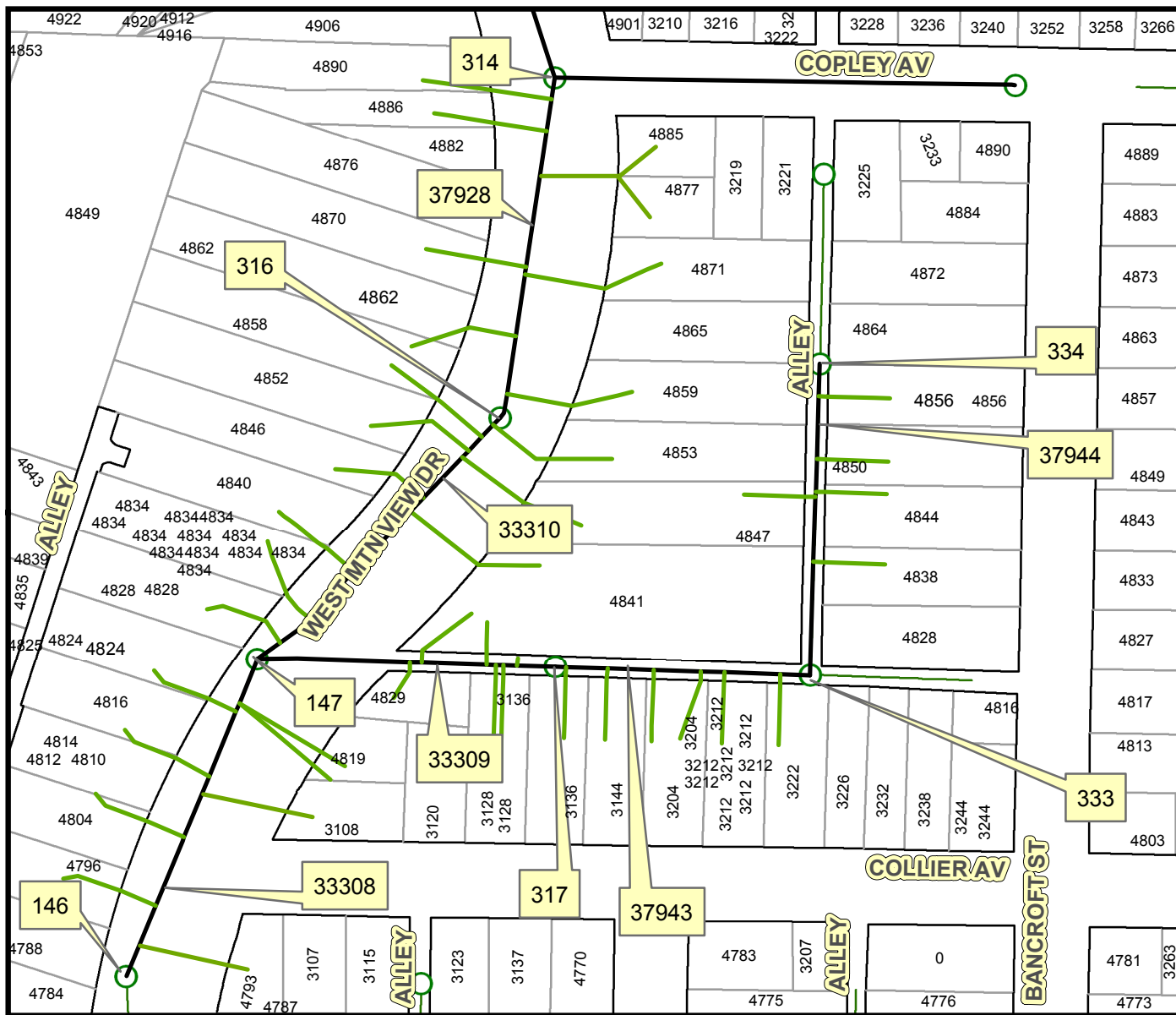
Date: April 17, 2013



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# PIPELINE REHABILITATION V-1



## Legend

- Rehab Mains
- Laterals
- Manhole ID
- Facility Sequence Number (FSN)



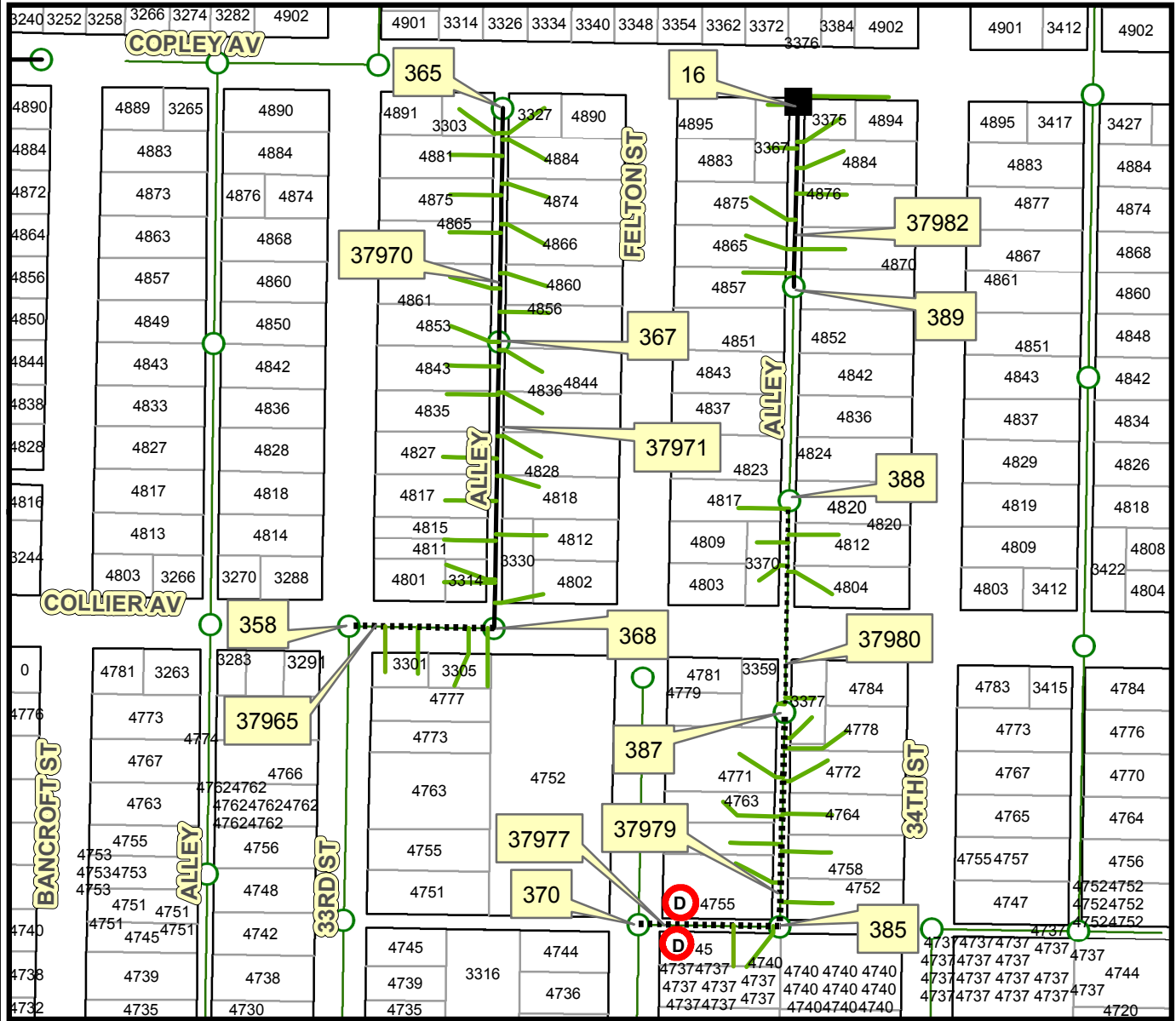
SHEET NO. 22	THOMAS BROS.: 1269E2 & 1269E3 109 Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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## Legend

- Proposed Clean Outs
- Rehab Mains
- REHAB and POINT REPAIR
- Laterals
- Curb Ramp D
- Manhole ID
- Facility Sequence Number (FSN)



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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

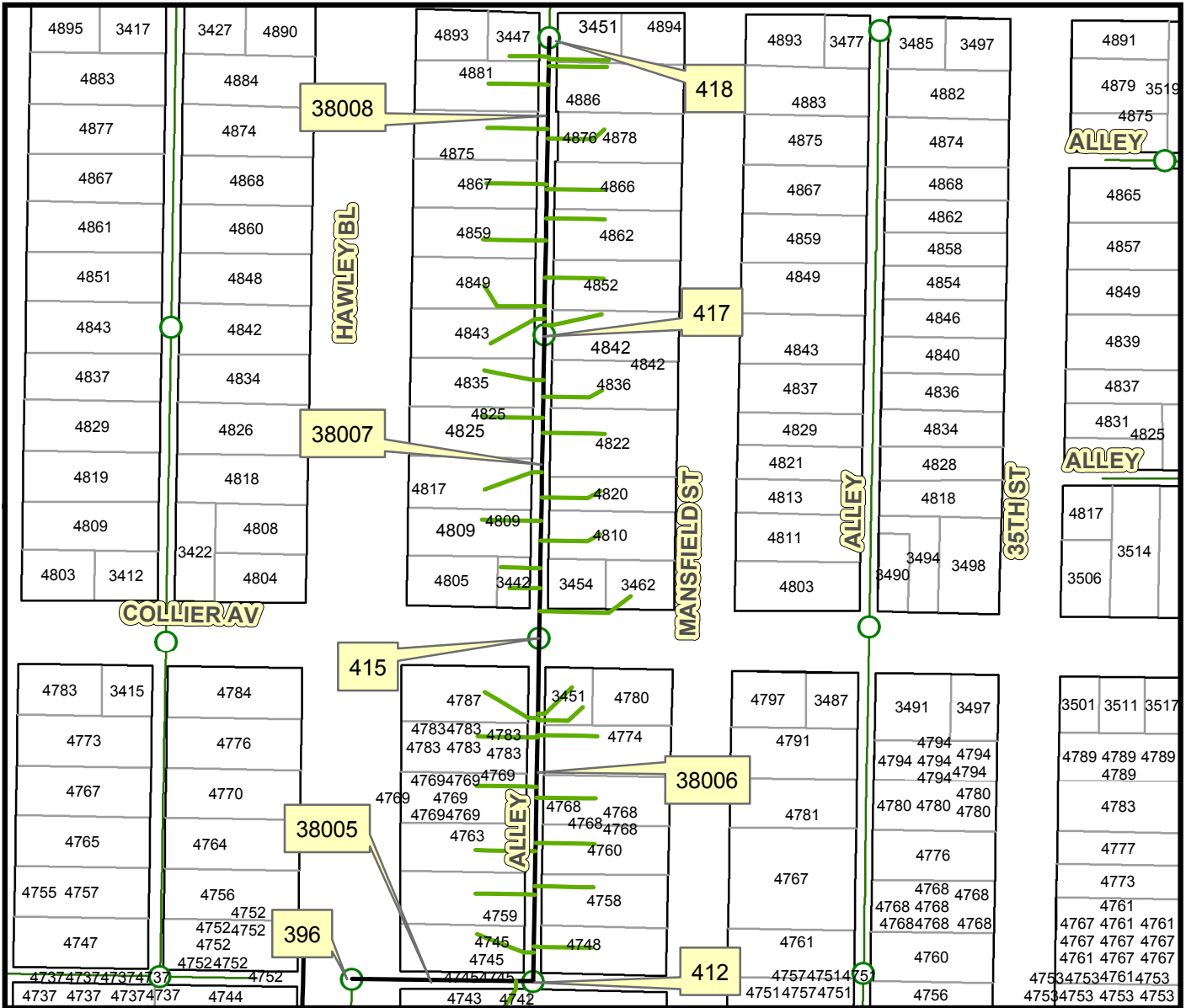






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## Legend

— Rehab Mains

— Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



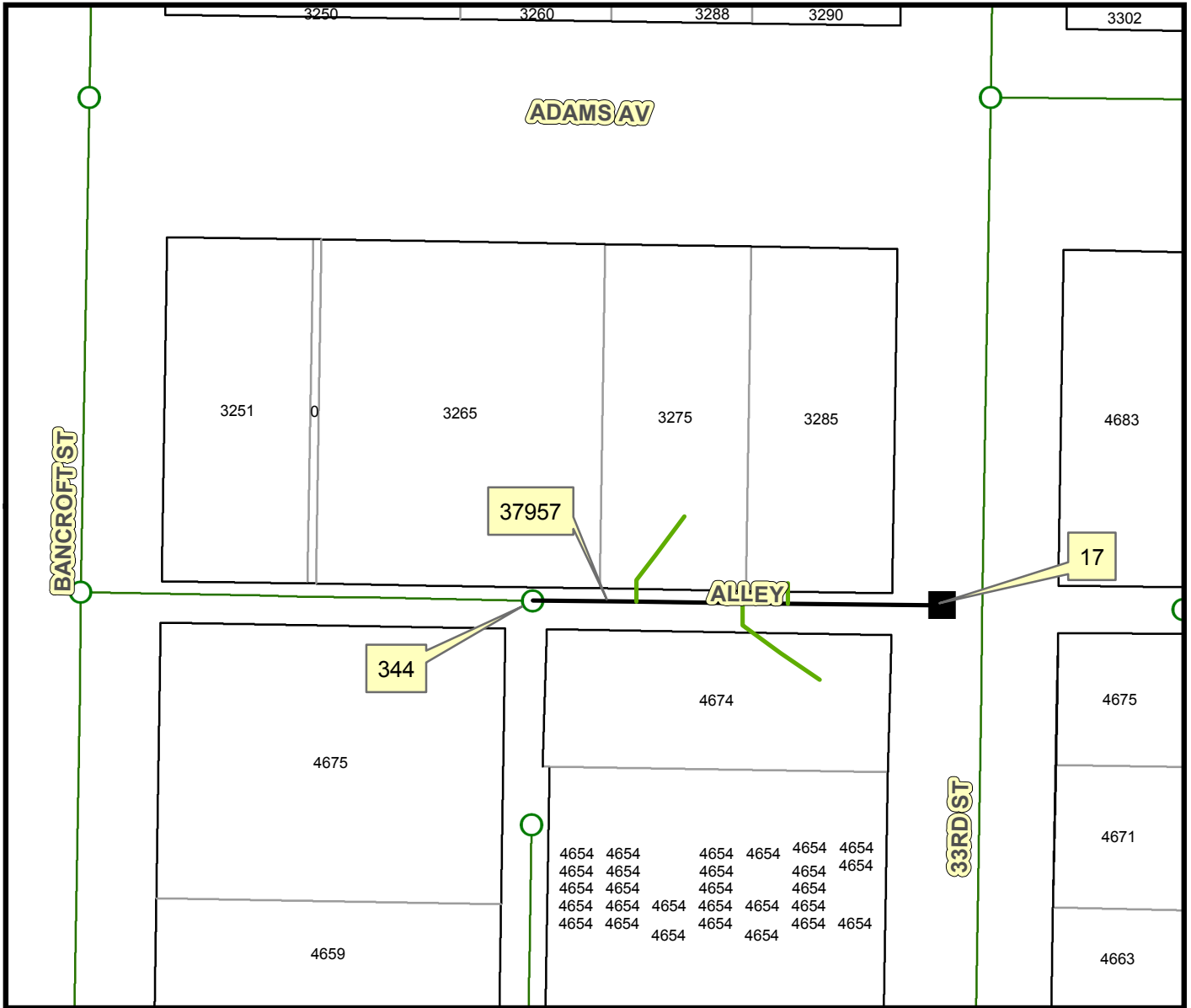
SHEET NO. 24	THOMAS BROS.: 1269F3 111 Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps








# PIPELINE REHABILITATION V-1



## Legend

-  Proposed Clean Outs
-  Laterals
-  Rehab Mains

 123 Manhole ID

 12345 Facility Sequence Number (FSN)



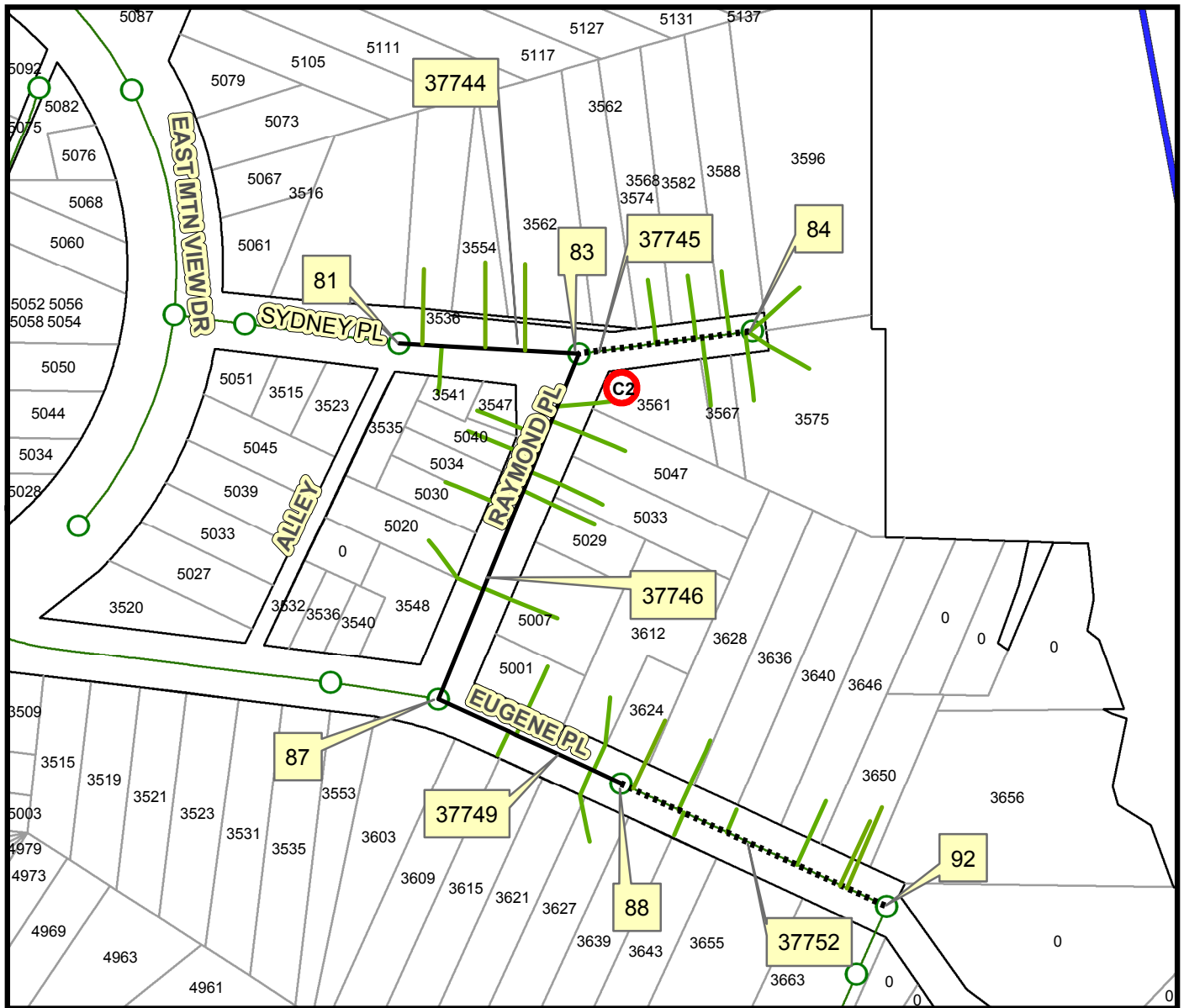
SHEET NO. 25	THOMAS BROS.: 1269F3 112   Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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# PIPELINE REHABILITATION V-1



## Legend

----- REHAB and POINT REPAIR

— Rehab Mains

— Laterals

**C2** Curb Ramp C2

123 Manhole ID

12345 Facility Sequence Number (FSN)



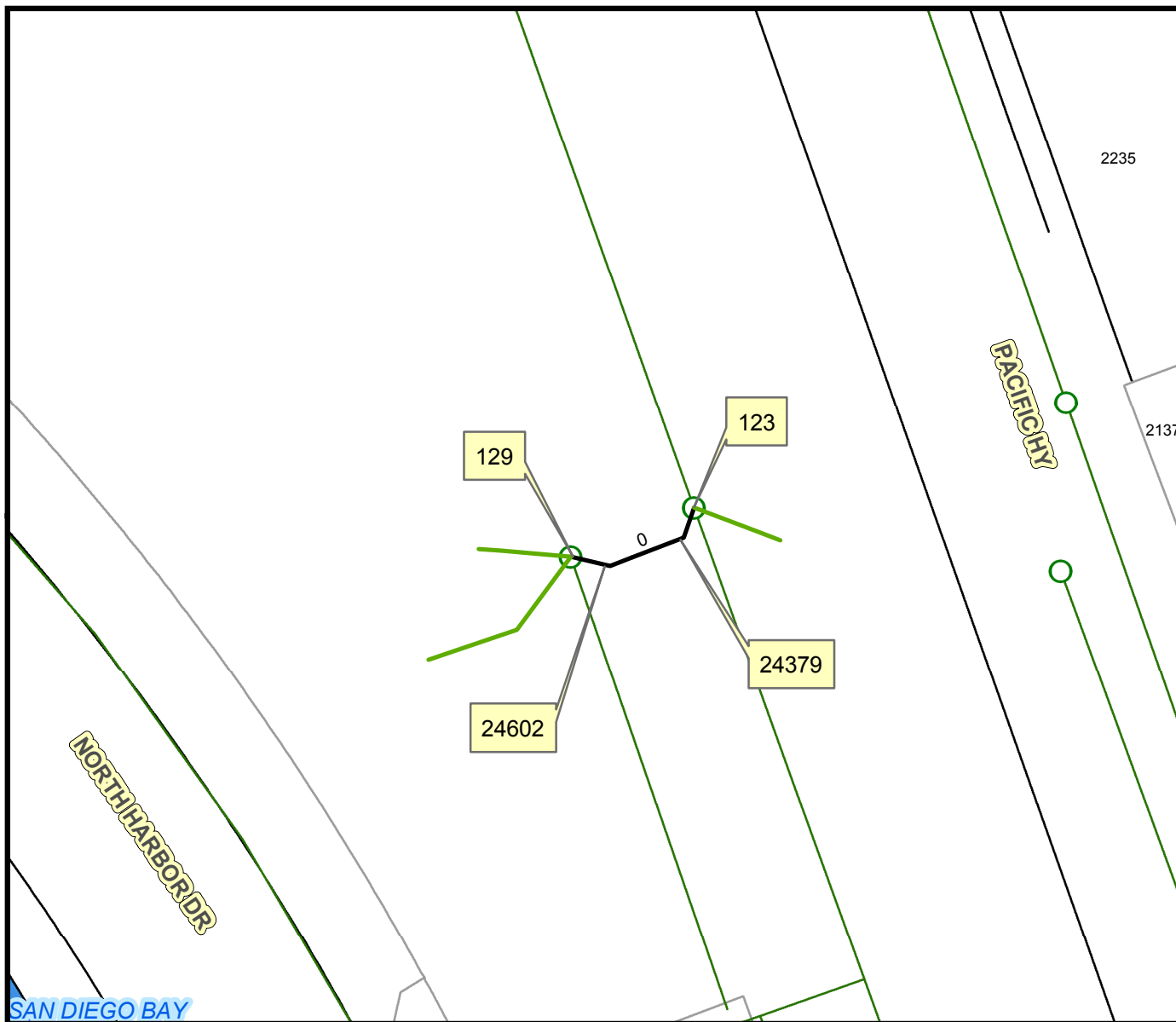
SHEET NO. 26	THOMAS BROS.: 1269F2, 1269G2 113 Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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# PIPELINE REHABILITATION V-1



## Legend

— Rehab Mains

— Laterals

123

Manhole ID

12345

Facility Sequence Number (FSN)



SHEET NO. 27

THOMAS BROS.:  
 1288J1  
 114 Page

Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: DOWNTOWN

COUNCIL DISTRICT: 3

SAP ID: B13013 (S)

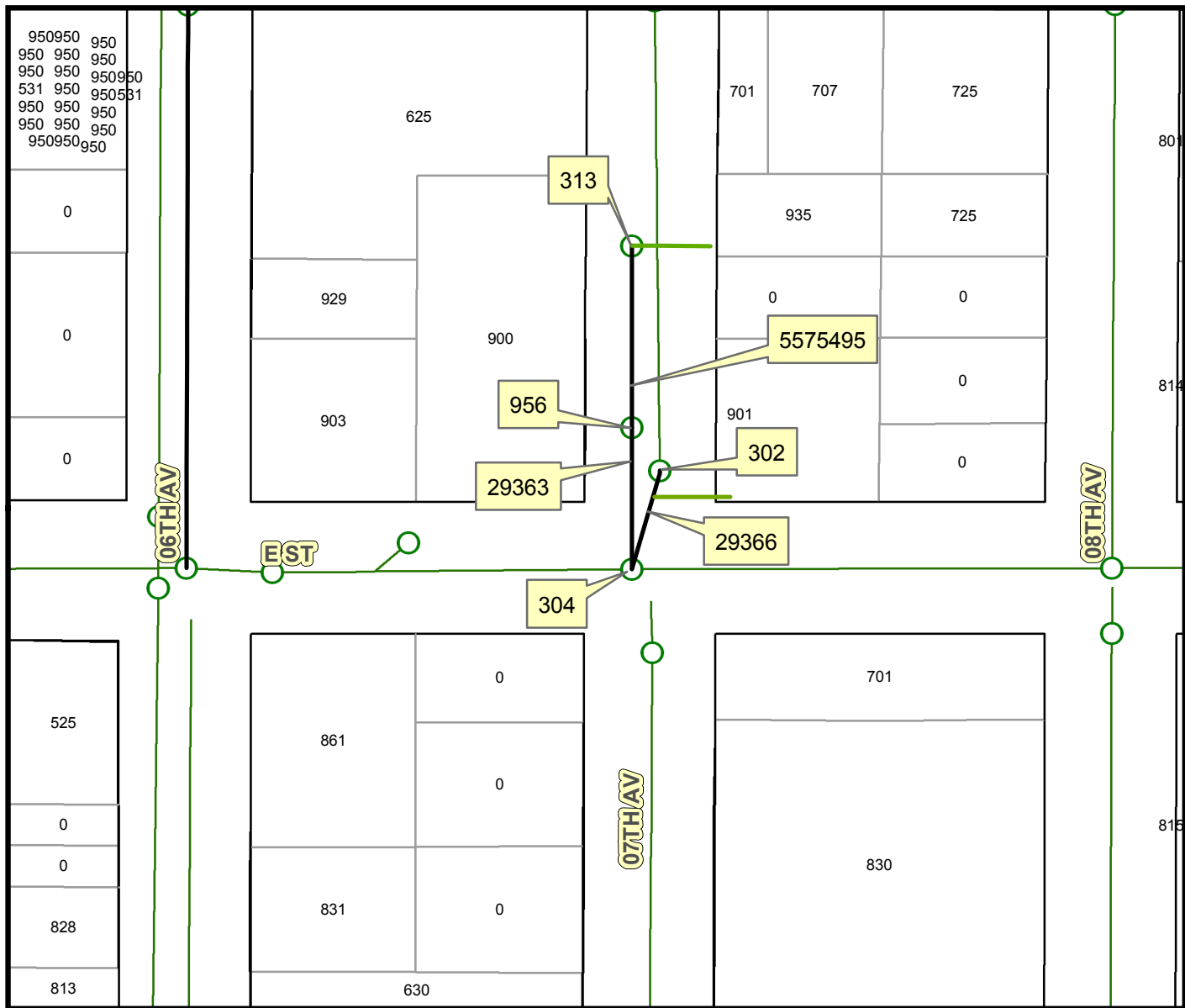
Date: April 23, 2013



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# PIPELINE REHABILITATION V-1



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## Legend

- Rehab Mains
- Laterals

Manhole ID

Facility Sequence Number (FSN)



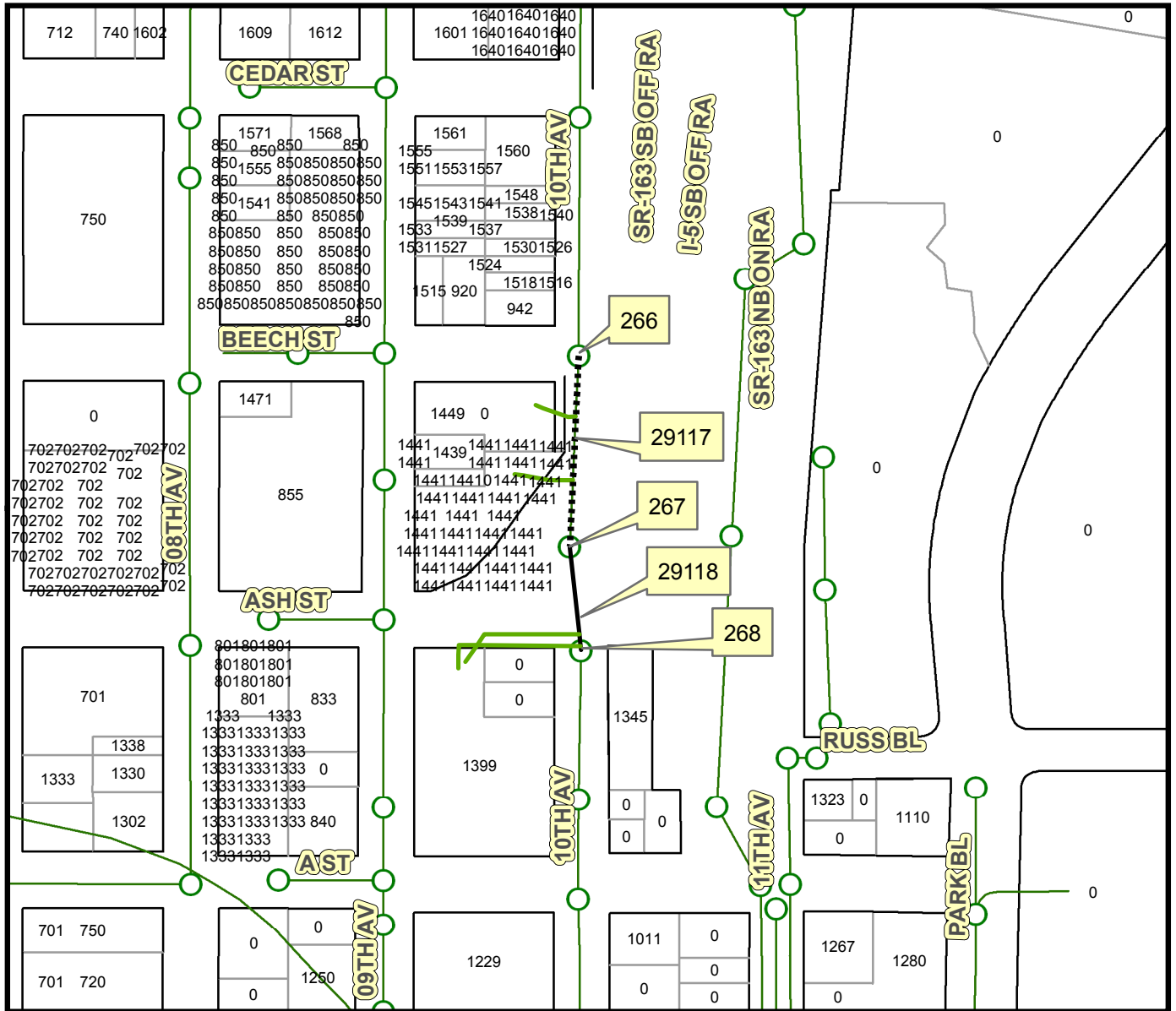
SHEET NO. 28	THOMAS BROS.: 1289A3, 1289B3 115   Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps





# PIPELINE REHABILITATION V-1



## Legend

- Rehab Mains
- REHAB and POINT REPAIR
- Laterals
- Manhole ID
- Facility Sequence Number (FSN)



SHEET NO. 29	THOMAS BROS.: 1289B2 116   Page
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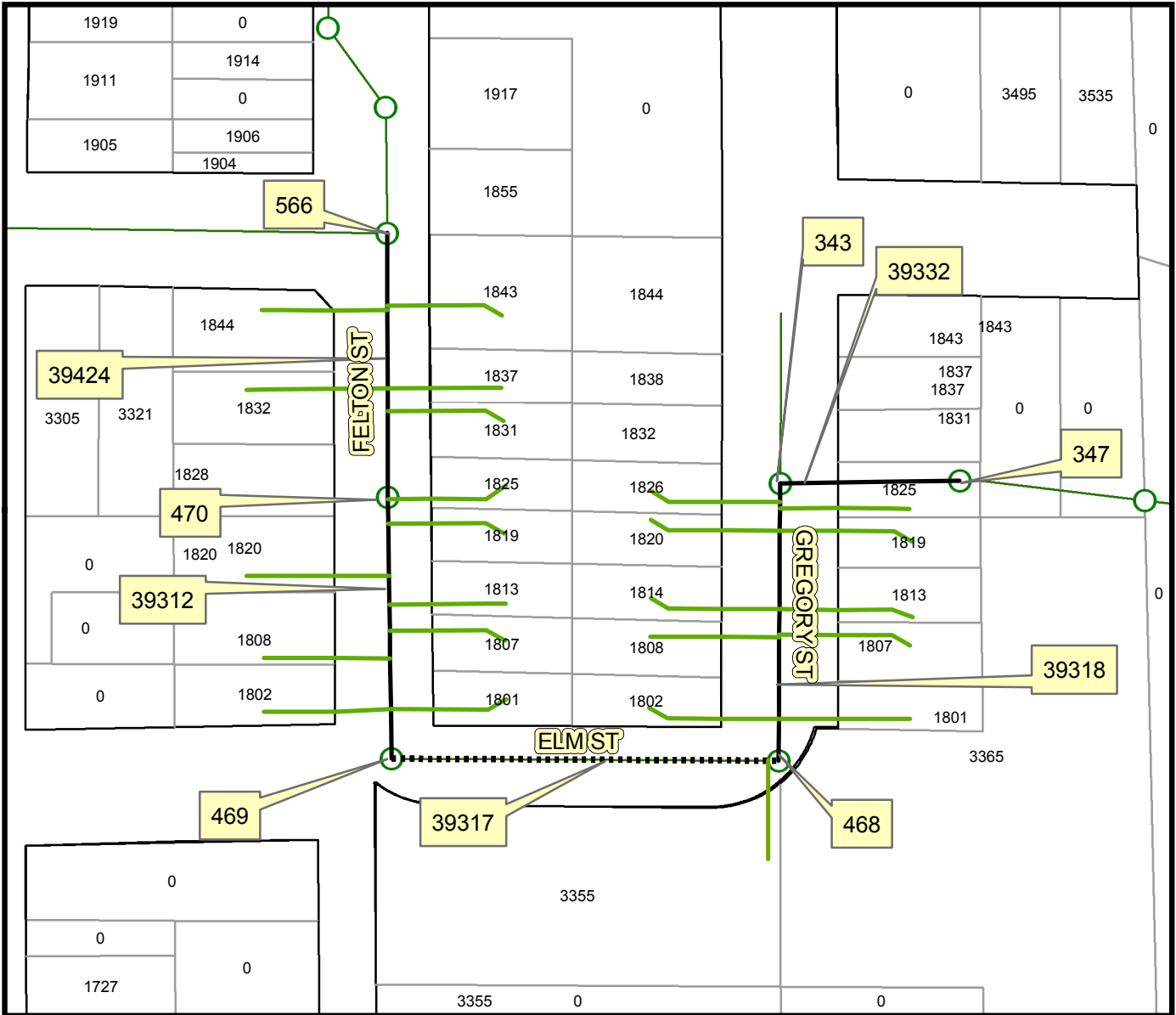
Appendix I - Pipeline Rehabilitation V-1 Rehab Maps



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# PIPELINE REHABILITATION V-1



## Legend

- Rehab Mains
- REHAB and POINT REPAIR
- Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



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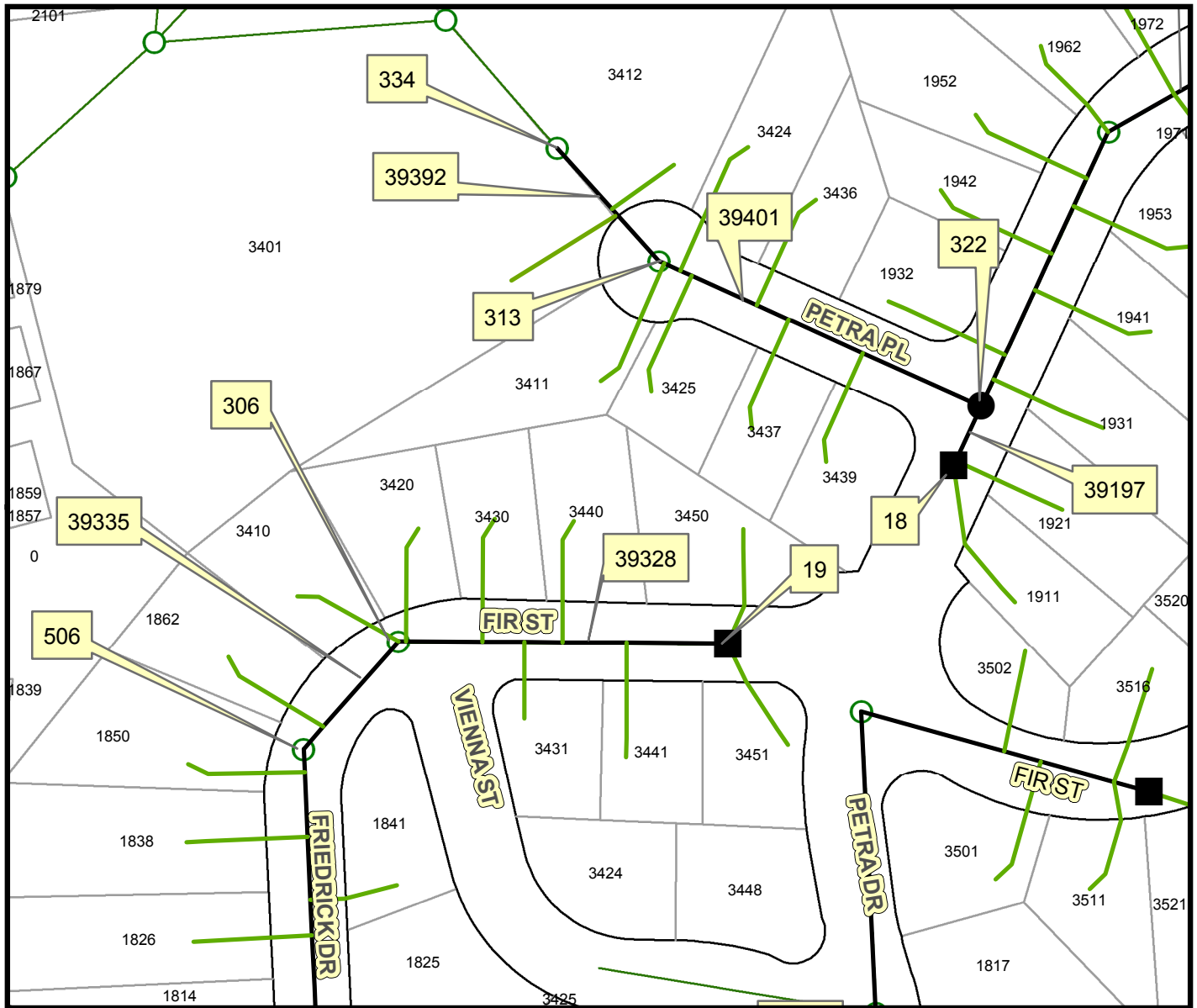
Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Clean Outs
- Proposed Rehab Manhole
- Rehab Mains
- Laterals
- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)



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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

COMMUNITY NAME: GREAT NORTH PARK

COUNCIL DISTRICT: 3

SAP ID: B13013 (S)

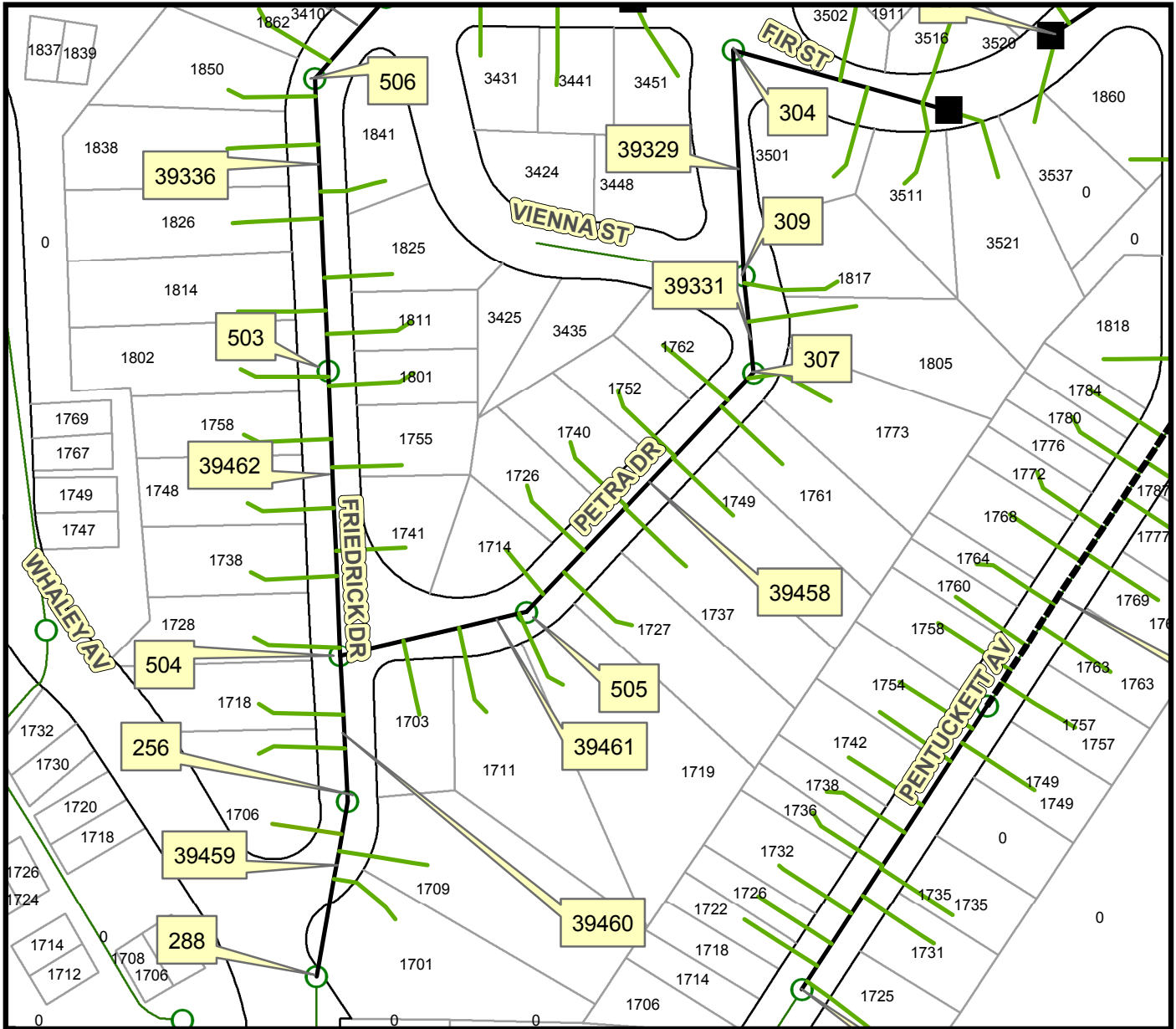
Date: April 17, 2013



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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Clean Outs
- Rehab Mains
- Laterals

123 Manhole ID

12345 Facility Sequence Number (FSN)



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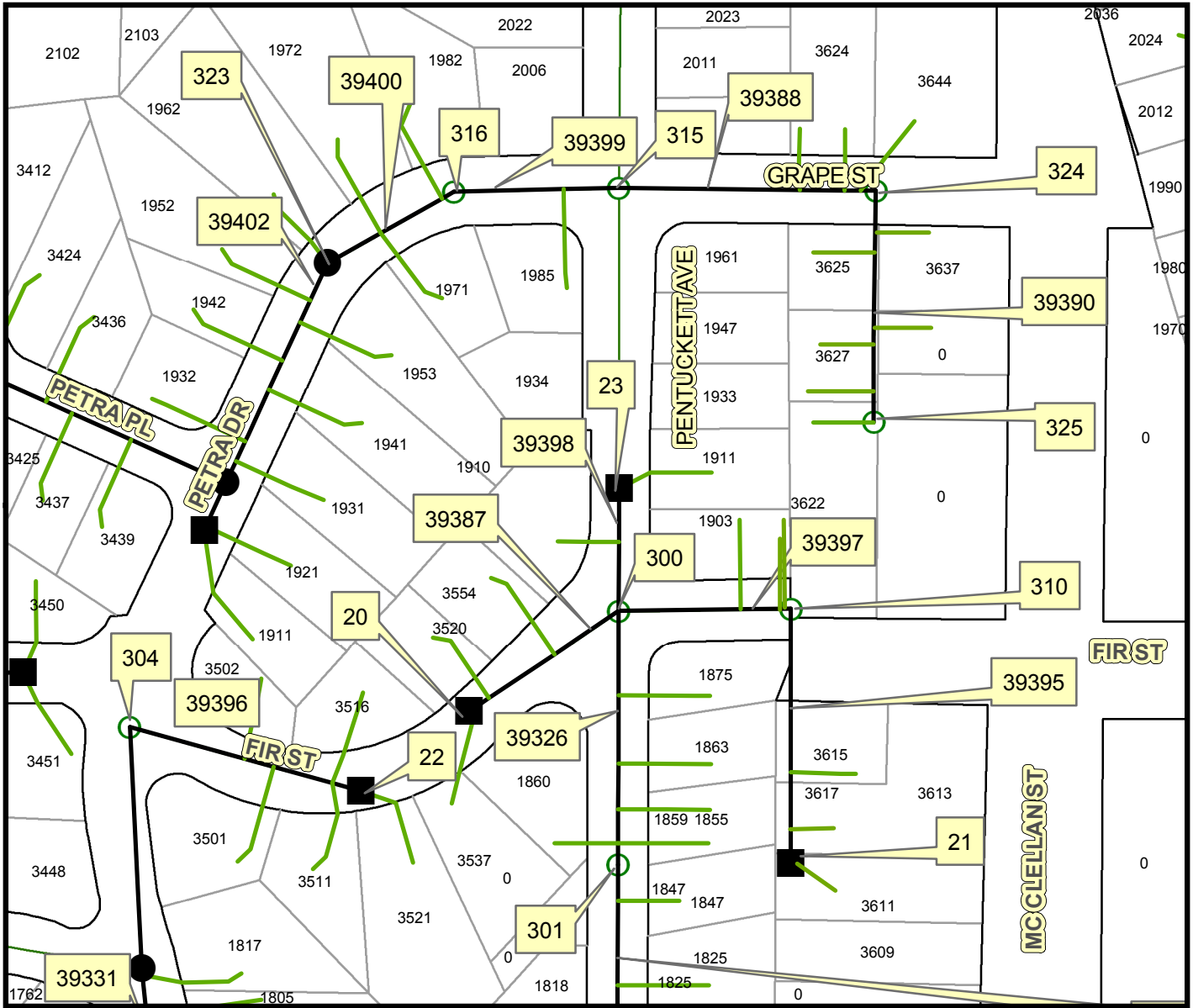
Appendix I - Pipeline Rehabilitation V-1 Rehab Maps









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## PIPELINE REHABILITATION V-1



### Legend

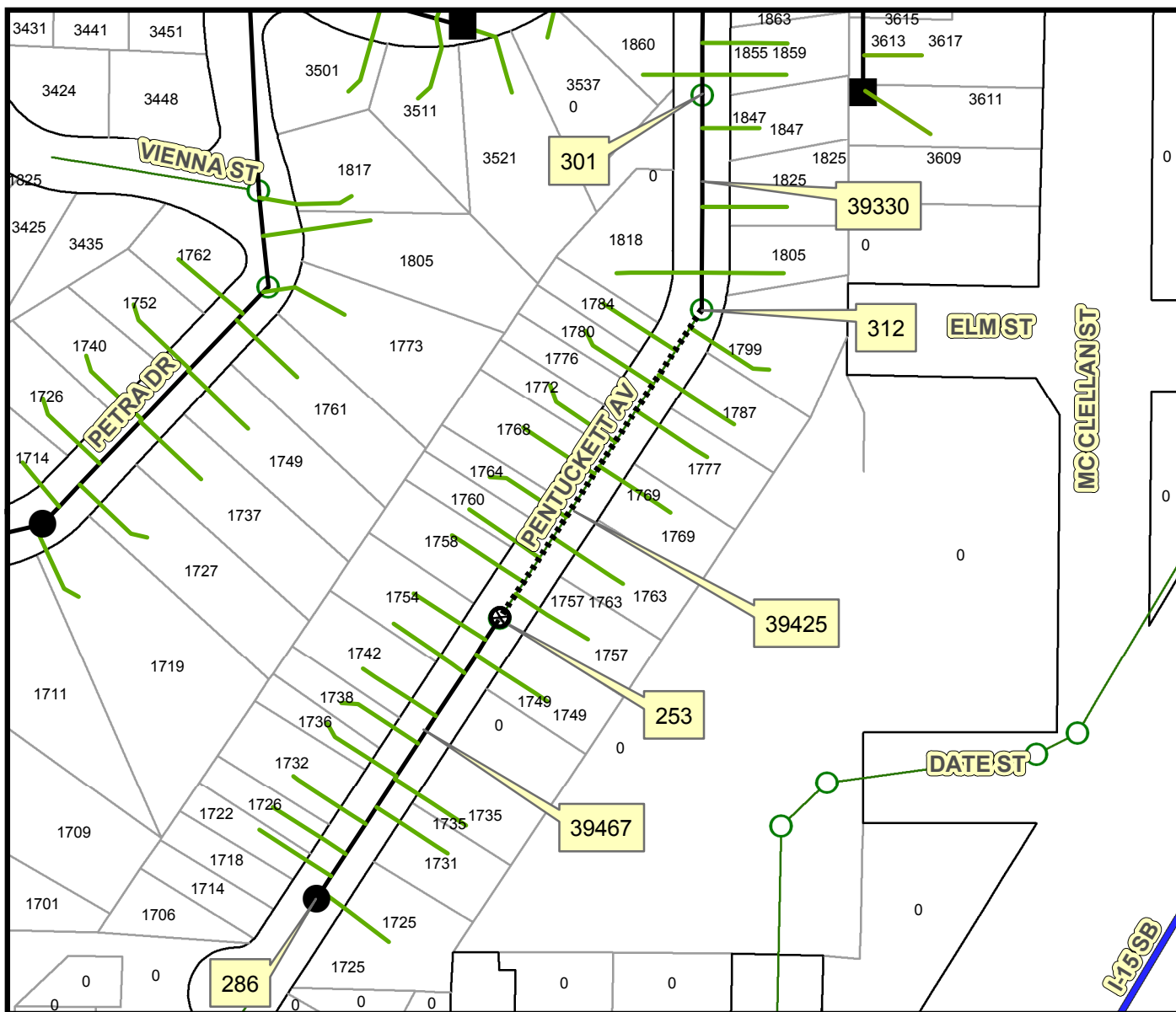
-  Proposed Rehab Manhole
-  Proposed Clean Outs
-  Rehab Mains
-  Laterals
-  123 Manhole ID
-  12345 Facility Sequence Number (FSN)



SHEET NO. 33	THOMAS BROS.: 1289F1, 1289F2 120   Page
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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Clean Outs
- Proposed Rehab Manhole
- Rehab Mains
- REHAB and POINT REPAIR
- Laterals
- ⊗ Repair Existing Manhole
- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)



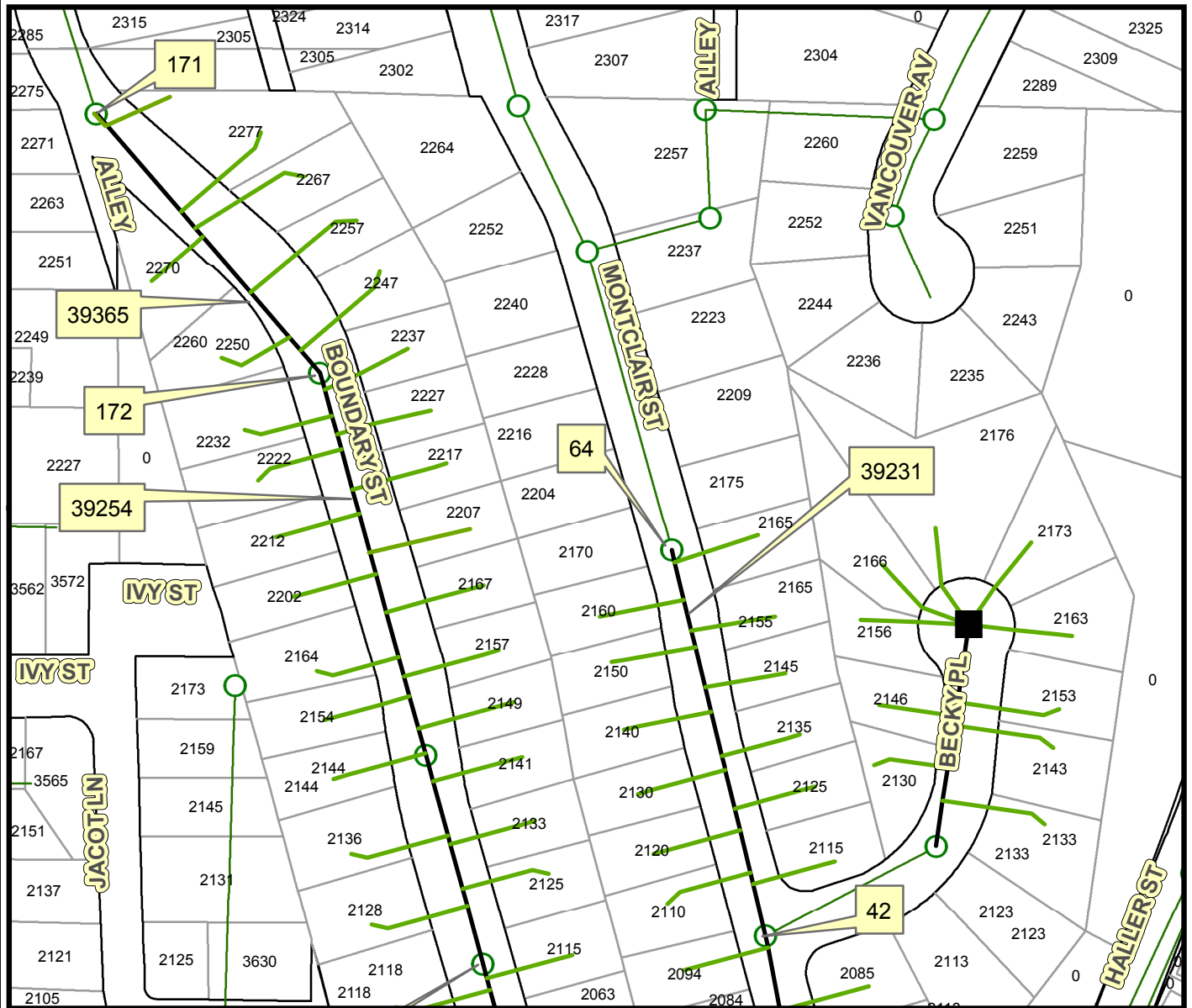
SHEET NO. 34	THOMAS BROS.: 1289F1, 1289F2 121   Page
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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps

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# PIPELINE REHABILITATION V-1



## Legend

- Proposed Clean Outs
- Rehab Mains
- REHAB and POINT REPAIR
- Laterals

- 123 Manhole ID
- 12345 Facility Sequence Number (FSN)



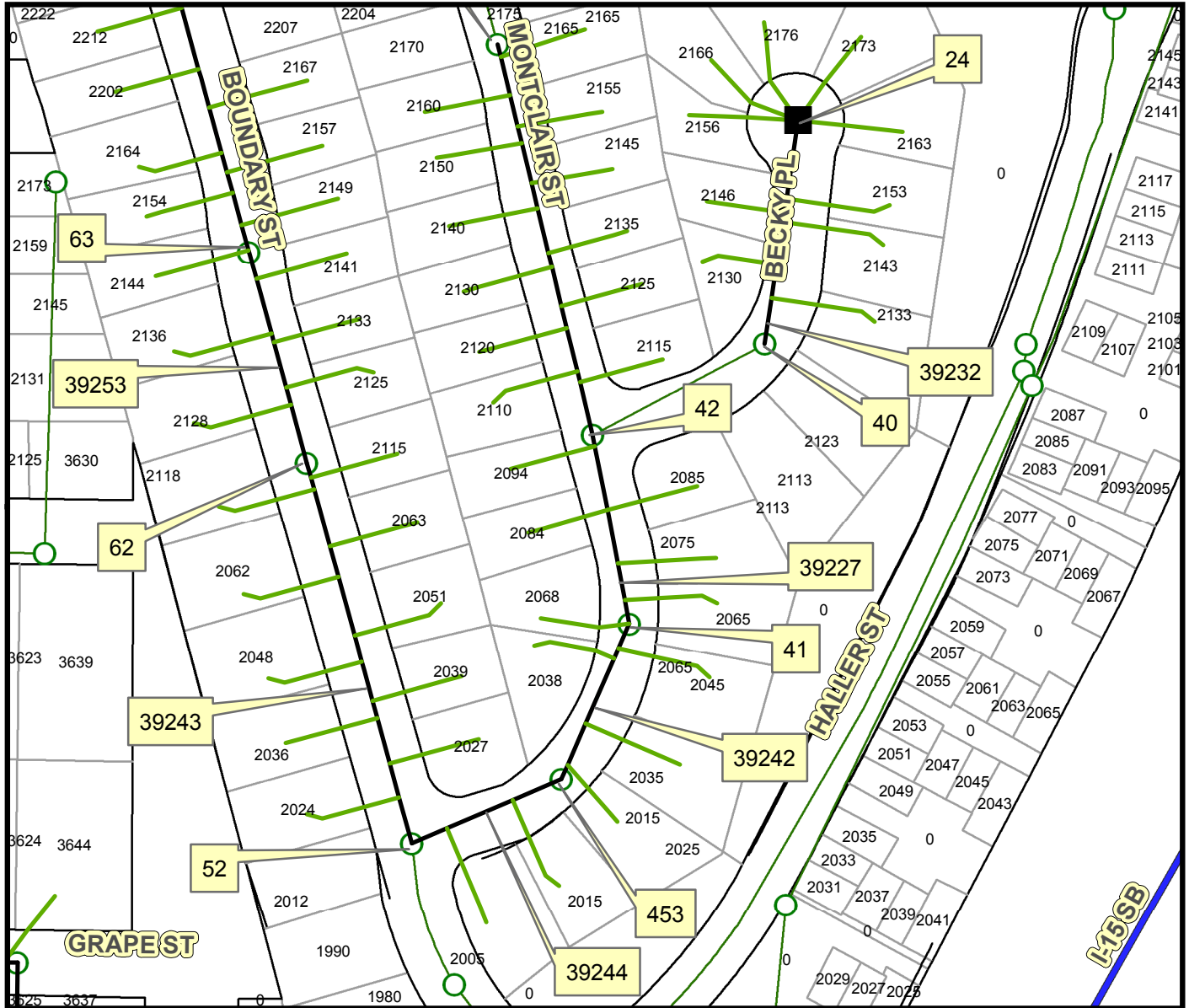
SHEET NO. 35	THOMAS BROS.: 1289F1, 1289G1 Page 122
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# PIPELINE REHABILITATION V-1

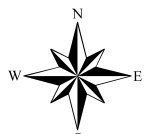


## Legend

- Proposed Clean Outs
- Rehab Mains
- Laterals

Manhole ID

Facility Sequence Number (FSN)



No Scale

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Appendix I - Pipeline Rehabilitation V-1 Rehab Maps



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**APPENDIX J**

**PIPELINE REHABILITATION V-1 OVERALL PROJECT SCOPE TABLES**

**PIPELINE REHABILITATION V-1  
OVERALL PROJECT SCOPE TABLE**

SHEET NO.	FSN	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 DTAE	LENGTH (Feet)	SIZE (inches)	MATL	# LATERALS	ACTION	STREET NAME	THOMAS BRO	COMMUNITY	COUNCIL DISTRICT	REMARKS	CONFLICT COMMENTS
1	3737	B13S	218	327.12	6	B13S	166	321.62	7	1/1/1961	218	8	VC	7	REHAB	VUE DE VILLE CT	1247J4	PACIFIC BEACH	2	NA	
1	3738	B13S	216	340.29	7	B13S	166	321.62	7	1/1/1961	180	8	VC	4	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
1	3787	B13S	217	355.49	8	B13S	216	340.29	7	1/1/1961	132	8	VC	3	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
1	3788	B13S	219	376.59	6	B13S	217	355.49	8	1/1/1961	183	8	VC	5	REHAB	CASTLE HILLS DR	1247J3	0	2	NA	
1	3789	B13S	PLUG	379.59	6	B13S	219	376.59	6	1/1/1964	137	8	VC	4	REHAB	CASTLE HILLS DR	1247J3	LA JOLLA	2	ADD CLEAN OUT	
2	3724	B13S	165	300.62	7	B13S	164	291.12	7	1/1/1966	114	8	VC	1	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
2	3734	B13S	167	288.12	6	B13S	163	267.05	10	1/1/1961	298	8	VC	6	REHAB	VUE DU BAY CT	1247J4	PACIFIC BEACH	2	NA	
2	3735	B13S	164	291.12	7	B13S	163	267.05	10	1/1/1961	193	8	VC	0	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
2	3736	B13S	166	327.12	7	B13S	165	300.62	7	1/1/1961	230	8	VC	4	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
2	3739	B13S	PLUG	296.12	5	B13S	167	288.12	6	1/1/1961	176	8	VC	9	REHAB	VUE DU BAY CT	1247J4	PACIFIC BEACH	2	ADD CLEAN OUT	
3	3726	B13S	137	273.9	8	B13S	161	273.13	4	1/1/1966	153	8	VC	3	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
3	3732	B13S	162	26.65	11	B13S	160	235.42	11	1/1/1958	316	8	VC	5	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
3	3733	B13S	163	267.05	10	B13S	162	265.65	11	1/1/1961	20	8	VC	0	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
3	3989	B13S	161	273.13	4	B13S	162	265.65	11	1/1/1966	25	8	VC	0	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
4	3731	B13S	160	235.42	11	B13S	323	218.62	11	1/1/1958	205	8	VC	6	REHAB	CASTLE HILLS DR	1247J4	PACIFIC BEACH	2	NA	
4	3754	B13S	184	264.12	9	B13S	306	235.54	11	1/1/1958	209	8	VC	4	REHAB	WINDSOR DR	1247J4	PACIFIC BEACH	2	NA	
4	3755	B13S	PLUG	248.81	10	B13S	184	246.21	9	1/1/1961	50	8	VC	3	REHAB	WINDSOR DR	1247J4	PACIFIC BEACH	2	ADD CLEAN OUT	
4	3865	B13S	306	235.54	6	B13S	305	226.79	8	1/1/1958	250	8	VC	4	REHAB	WINDSOR DR	1247J4	PACIFIC BEACH	2	NA	
5	8559	C13S	21	291.12	15	C13S	25	284.33	14	1/1/1955	217	8	VC	5	REHAB	ALTA VISTA ST	1247J4	PACIFIC BEACH	2	NA	
5	8561	C13S	26	281.09	8	C13S	294	278.72	9	1/1/1955	168	8	VC	0	REHAB	LOS ALTOS RD	1248A4	PACIFIC BEACH	2	NA	
5	8562	C13S	27	281.78	8	C13S	26	281.09	8	1/1/1960	115	8	VC	1	REHAB	CASSANDRA LN	1248A4	PACIFIC BEACH	2	NA	
5	8563	C13S	28	295.46	6	C13S	27	281.78	8	1/1/1960	268	8	VC	7	REHAB	CASSANDRA LN	1248A4	PACIFIC BEACH	2	NA	
5	8564	C13S	16	308.24	5	C13S	28	294.46	6	1/1/1960	240	8	VC	7	REHAB	CASSANDRA LN	1248A4	PACIFIC BEACH	2	NA	
6	8805	C13S	PLUG	281.12	8	C13S	298	280.62	10	1/1/1955	160	8	VC	3	REHAB	LOS ALTOS RD	1248A4	PACIFIC BEACH	2	ADD CLEAN OUT	
6	8806	C13S	292	236.13	10	C13S	298	280.62	10	1/1/1955	216	8	VC	1	POINT REPAIR/REHAB	LOS ALTOS RD	1248A4	PACIFIC BEACH	2	NA	Verify if Internal PT Repair is possible or needed
6	8807	C13S	298	280.62	10	C13S	294	278.72	9	1/1/1955	246	8	VC	3	REHAB	LOS ALTOS RD	1248A4	PACIFIC BEACH	2	NA	
6	8808	C13S	294	278.72	9	C13S	295	277.22	6	1/1/1955	117	8	VC	3	REHAB	LOS ALTOS WY	1248A4	PACIFIC BEACH	2	NA	
6	8811	C13S	297	274.48	7	C13S	299	272	7	1/1/1955	194	8	VC	1	POINT REPAIR/REHAB	SOLEDAD RD	1248A4	PACIFIC BEACH	2	NA	
7	3767	B13S	PLUG	323.29	7	B13S	194	306.52	21	1/1/1955	180	8	VC	3	REHAB	YOST PL	1247J4	PACIFIC BEACH	2	ADD CLEAN OUT	
7	8544	C13S	10	364.62	7	C13S	11	352.66	8	1/1/1958	239	8	VC	6	REHAB	ALTA VISTA ST	1247J3	PACIFIC BEACH	2	NA	
7	8545	C13S	11	352.66	8	C13S	12	330.92	12	1/1/1958	137	8	VC	1	REHAB	ALTA VISTA ST	1247J4	PACIFIC BEACH	2	NA	
7	8547	C13S	14	337.12	6	C13S	13	232.23	12	1/1/1955	255	8	VC	4	REHAB	ARCHER ST	1248A4	PACIFIC BEACH	2	NA	
7	8549	C13S	15	316.92	7	C13S	17	309.39	12	1/1/1955	205	8	VC	5	REHAB	ALTA VISTA WY	1248A4	PACIFIC BEACH	2	NA	
7	8550	C13S	17	309.39	12	C13S	20	304.43	18	1/1/1955	315	8	VC	5	REHAB	ALTA VISTA WY	1248A4	PACIFIC BEACH	2	NA	
7	8551	C13S	18	312.39	9	C13S	20	304.43	18	1/1/1955	123	8	VC	0	REHAB	ALTA VISTA ST	1247J4	PACIFIC BEACH	2	NA	
7	8552	C13S	12	330.92	12	C13S	18	312.39	9	1/1/1955	272	8	VC	4	REHAB	ALTA VISTA ST	1247J4	PACIFIC BEACH	2	NA	



**PIPELINE REHABILITATION V-1  
OVERALL PROJECT SCOPE TABLE**

SHEET NO.	FSN	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	LENGTH (Feet)	SIZE (inches)	MATL	# LATERALS	ACTION	STREET NAME	THOMAS BRO	COMMUNITY	COUNCIL DISTRICT	REMARKS	CONFLICT COMMENTS
8	8607	C13S	65	216.21	13	C13S	68	233	7	1/1/1968	70	8	VC	0	REHAB	MIDDLETON RD	1248B3	PACIFIC BEACH	2	NA	
8	8608	C13S	68	233	7	C13S	84	229.29	8	1/1/1968	76	8	VC	1	REHAB	MIDDLETON RD	1248B4	PACIFIC BEACH	2	NA	
8	8624	C13S	81	381.35	15	C13S	82	265	4	1/1/1959	97	8	VC	0	REHAB	PRIVATE RD	1248B3	PACIFIC BEACH	2	NA	
8	8625	C13S	82	265	4	C13S	83	262.17	7	1/1/1959	244	8	VC	0	REHAB	WESLEY DR	1248B4	PACIFIC BEACH	2	NA	
8	8626	C13S	83	262.17	7	C13S	106	253.83	5	1/1/1959	303	8	VC	0	REHAB	WESLEY DR	1248B4	PACIFIC BEACH	2	NA	
8	8627	C13S	85	219.18	7	C13S	105	234.78	10	1/1/1964	343	8	VC	7	REHAB	MIDDLETON RD	1248B4	PACIFIC BEACH	2	NA	
8	8628	C13S	84	229.29	8	C13S	85	219.18	7	1/1/1964	215	8	VC	6	REHAB	MIDDLETON RD	1248B4	PACIFIC BEACH	2	NA	
8	8636	C13S	102	198	8	C13S	101	186.74	6	1/1/1963	170	8	VC	0	REHAB	SOLEDAD MTN RD	1248B4	PACIFIC BEACH	2	NA	
8	8637	C13S	104	201	7	C13S	102	198	8	1/1/1963	150	8	VC	1	REHAB	MIDDLETON RD	1248B4	PACIFIC BEACH	2	NA	
8	8639	C13S	106	253.83	5	C13S	107	247	5	1/1/1959	310	8	VC	0	REHAB	WESLEY DR	1248B4	PACIFIC BEACH	2	NA	
8	8640	C13S	107	247	5	C13S	108	246	8	21551	206	8	VC	4	REHAB	WESLEY DR	1248B4	PACIFIC BEACH	2	NA	
8	8641	C13S	108	246	8	C13S	110	245.15	4	1/1/1959	259	8	VC	6	REHAB	PRIVATE RD	1248B4	PACIFIC BEACH	2	NA	
8	8642	C13S	109	245.67	4	C13S	110	245.15	4	1/1/1959	131	8	VC	1	REHAB	PRIVATE RD	1248B4	PACIFIC BEACH	2	NA	
9	8422	C12S	154	391.12	8	C12S	527	369.12	7	1/1/1962	282	8	VC	7	REHAB	ALTO CERRO CR	1248B3	PACIFIC BEACH	2	NA	
9	8423	C12S	PLUG	412.12	7	C12S	154	391.12	8	1/1/1962	175	8	VC	6	REHAB	ALTO CERRO CR	1248B3	PACIFIC BEACH	2	ADD CLEAN OUT	
9	8611	C13S	70	338.12	9	C13S	71	311.12	10	1/1/1961	212	8	VC	6	REHAB	PENDLETON ST	1248B3	PACIFIC BEACH	2	NA	
9	8612	C13S	59	339.32	15	C13S	70	338.12	9	1/1/1961	175	8	VC	4	REHAB	PENDLETON ST	1248B3	PACIFIC BEACH	2	NA	
9	8613	C13S	527	369.12	7	C13S	72	343	7	1/1/1962	235	8	VC	3	REHAB	ALTO CERRO CR	1248B3	PACIFIC BEACH	2	NA	
9	8614	C13S	72	343	7	C13S	74	346.12	8	1/1/1962	96	8	VC	2	REHAB	BAJA CERRO CR	1248B3	PACIFIC BEACH	2	NA	
9	8615	C13S	73	361	8	C13S	74	346.12	8	22647	160	8	VC	3	REHAB	BAJA CERRO CR	1248B3	PACIFIC BEACH	2	NA	
9	8616	C13S	145	404.52	6	C13S	73	361.12	8	1/1/1962	350	8	VC	7	REHAB	BAJA CERRO CR	1248B3	PACIFIC BEACH	2	NA	
9	8617	C13S	74	346.12	8	C13S	75	345.59	10	1/1/1961	133	8	VC	2	REHAB	BAJA CERRO CR	1248B3	PACIFIC BEACH	2	NA	
9	8618	C13S	75	345.59	10	C13S	78	310.12	10	1/1/1961	70	8	VC	0	REHAB		1248B3	PACIFIC BEACH	2	NA	
10	8610	C13S	71	311.12	10	C13S	79	285.32	8	1/1/1961	254	8	VC	3	REHAB	PENDLETON ST	1248B3	PACIFIC BEACH	2	NA	
10	8620	C13S	76	349.12	9	C13S	77	305.12	11	1/1/1960	350	8	VC	8	REHAB	ROMNEY RD	1248B3	PACIFIC BEACH	2	NA	
10	8621	C13S	77	305.12	11	C13S	79	385.32	8	1/1/1960	295	8	VC	5	REHAB	ROMNEY RD	1248B3	PACIFIC BEACH	2	NA	
10	8665	C13S	137	422.12	7	C13S	139	410.12	7	1/1/1960	203	8	VC	3	REHAB	SAN AQUARIO DR	1248B3	PACIFIC BEACH	2	NA	
10	8673	C13S	139	410.12	7	C13S	138	390.72	9	1/1/1960	172	8	VC	4	REHAB	ROMNEY RD	1248B3	PACIFIC BEACH	2	NA	
10	8674	C13S	138	390.72	9	C13S	76	349.12	9	1/1/1960	350	8	VC	8	REHAB	ROMNEY RD	1248B3	PACIFIC BEACH	2	NA	
11	8660	C13S	128	291.12	9	C13S	127	246.12	9	1/1/1960	350	8	VC	8	REHAB	SAN AQUARIO DR	1248B4	PACIFIC BEACH	2	NA	
11	8661	C13S	132	346.12	7	C13S	128	291.12	9	1/1/1960	350	8	VC	8	REHAB	SAN AQUARIO DR	1248B4	PACIFIC BEACH	2	NA	
11	8662	C13S	133	363.12	9	C13S	132	346.12	7	1/1/1960	230	8	VC	5	REHAB	SAN AQUARIO DR	1248B3	PACIFIC BEACH	2	NA	
11	8663	C13S	134	390.12	9	C13S	133	363.12	9	1/1/1960	204	8	VC	5	REHAB	SAN AQUARIO DR	1248B3	PACIFIC BEACH	2	NA	
11	8664	C13S	136	413.12	6	C13S	134	390.12	9	1/1/1960	141	8	VC	4	REHAB	SAN AQUARIO DR	1248B3	PACIFIC BEACH	2	NA	
11	8666	C13S	130	400.12	7	C13S	129	355.12	9	1/1/1960	338	8	VC	8	REHAB	PACIFICA DR	1248B3	PACIFIC BEACH	2	NA	
11	8667	C13S	131	438.72	7	C13S	130	400.12	7	1/1/1960	350	8	VC	10	REHAB	PACIFICA DR	1248B3	PACIFIC BEACH	2	NA	
11	8668	C13S	PLUG	441.81	9	C13S	131	438.72	7	1/1/1960	44	8	VC	2	REHAB	PACIFICA DR	1248B3	PACIFIC BEACH	2	ADD CLEAN OUT	
11	8669	C13S	141	455.12	5	C13S	142	434.72	9	1/1/1960	283	8	VC	8	REHAB	PACIFICA DR	1248B3	PACIFIC BEACH	2	NA	
12	8646	C13S	PLUG	265.12	6	C13S	115	263.27	6	1/1/1960	185	8	VC	4	REHAB	RANDALL ST	1248B4	PACIFIC BEACH	2	ADD CLEAN OUT	
12	8647	C13S	115	263.27	6	C13S	113	242.01	27	1/1/1960	64	8	VC	1	REHAB	RANDALL ST	1248B4	PACIFIC BEACH	2	NA	
12	8648	C13S	113	242.01	27	C13S	233	239.12	6	1/1/1959	284	8	VC	1	REHAB	RANDALL ST	1248B4	PACIFIC BEACH	2	NA	
12	8650	C13S	116	239.72	7	C13S	117	217.12	7	1/1/1960	150	8	VC	3	REHAB	LORING ST	1248B4	PACIFIC BEACH	2	NA	



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OVERALL PROJECT SCOPE TABLE**

SHEET NO.	FSN	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 DTAE	LENGTH (Feet)	SIZE (inches)	MATL	# LATERALS	ACTION	STREET NAME	THOMAS BRO	COMMUNITY	COUNCIL DISTRICT	REMARKS	CONFLICT COMMENTS
12	8652	C13S	120	174.26	13	C13S	228	150.12	7	1/1/1960	140	8	VC	2	REHAB	SAN ANSELMO ST	1248C4	PACIFIC BEACH	2	NA	
12	8655	C13S	122	197.02	10	C13S	119	187.92	6	1/1/1960	130	8	VC	0	REHAB	SAN JOAQUIN DR	1248B4	PACIFIC BEACH	2	NA	
12	8656	C13S	123	219.12	10	C13S	122	197.02	10	1/1/1960	123	8	VC	3	REHAB	SAN JOAQUIN DR	1248B4	PACIFIC BEACH	2	NA	
12	8657	C13S	124	260.12	7	C13S	123	219.12	10	1/1/1960	273	8	VC	6	REHAB	SAN JOAQUIN DR	1248B4	PACIFIC BEACH	2	NA	
12	8658	C13S	125	312.72	7	C13S	124	260.12	7	1/1/1960	350	8	VC	10	REHAB	SAN JOAQUIN DR	1248B4	PACIFIC BEACH	2	NA	
12	8659	C13S	PLUG	320.56	10	C13S	125	312.72	7	1/1/1960	112	8	VC	5	REHAB	SAN JOAQUIN DR	1248B4	PACIFIC BEACH	2	ADD CLEAN OUT	
12	8748	C13S	228	150.12	7	C13S	255	133.12	10	1/1/1960	185	8	VC	4	POINT REPAIR/REHAB	SAN ANSELMO ST	1248C4	PACIFIC BEACH	2	NA	
13	8643	C13S	110	345.15	4	C13S	111	243.79	6	1/1/1959	339	8	VC	10	REHAB	PRIVATE RD	1248B4	PACIFIC BEACH	2	NA	
13	8644	C13S	111	243.79	6	C13S	112	242.91	8	1/1/1959	220	8	VC	6	REHAB	WESLEY DR	1248B4	PACIFIC BEACH	2	NA	
14	8894	C13S	394	139.67	2	C13S	385	131.92	8	1/1/1969	38	8	VC	2	REHAB	BERYL ST	1248A4	PACIFIC BEACH	2	NA	Overlay, FY09 Asphalt Overlay EC 1'10
14	8895	C13S	384	136.65	10	C13S	385	131.92	8	1/1/1969	180	8	VC	2	REHAB	BERYL ST	1248A4	PACIFIC BEACH	2	NA	Overlay, FY09 Asphalt Overlay EC 1'10
14	8896	C13S	403	158.01	9	C13S	394	139.67	2	1/1/1969	342	8	VC	0	REHAB	WILBUR AV	1248A4	PACIFIC BEACH	2	NA	
14	8897	C13S	395	170.23	8	C13S	403	158.01	9	12/21/1955	124	8	VC	3	REHAB	ACADEMY ST	1248A4	PACIFIC BEACH	2	NA	
14	8900	C13S	PLUG	197.31	7	C13S	402	182.25	6	10/17/1955	167	8	VC	7	REHAB	ACADEMY ST	1248A4	PACIFIC BEACH	2	ADD CLEAN OUT	
14	8901	C13S	402	182.25	6	C13S	397	170.85	7	10/17/1955	95	8	VC	4	REHAB	ACADEMY ST	1248A4	PACIFIC BEACH	2	NA	
14	8902	C13S	397	170.85	7	C13S	395	170.23	8	10/17/1955	117	8	VC	4	REHAB	ACADEMY ST	1248A4	PACIFIC BEACH	2	NA	
14	8903	C13S	404	164.3	7	C13S	403	158.01	9	12/21/1955	281	8	VC	9	REHAB	WILBUR AV	1248A4	PACIFIC BEACH	2	NA	
14	8904	C13S	PLUG	175.55	6	C13S	404	164.3	7	12/21/1955	150	8	VC	8	REHAB	WILBUR AV	1248A4	PACIFIC BEACH	2	ADD CLEAN OUT	
15	8681	C13S	174	165.12	10	C13S	153	164.83	6	1/1/1963	98	8	VC	1	REHAB	BERYL ST	1248B4	PACIFIC BEACH	2	NA	Overlay, FY09 Asphalt Overlay EC 1'10
15	8693	C13S	169	128.65	6	C13S	170	129.49	9	1/1/1952	220	8	VC	0	POINT REPAIR/REHAB	CHALCEDONY ST	1248B4	PACIFIC BEACH	2	NA	Verify if Internal PT Repair is possible or needed
15	8694	C13S	171	161.52	6	C13S	170	129.49	9	1/1/1952	184	8	VC	3	POINT REPAIR/REHAB	DONALDSON DR	1248B4	PACIFIC BEACH	2	NA	
15	8695	C13S	172	149.42	6	C13S	171	140.75	6	1/1/1952	173	8	VC	4	POINT REPAIR/REHAB	DONALDSON DR	1248B4	PACIFIC BEACH	2	NA	
15	8696	C13S	173	161.52	6	C13S	172	161.52	6	1/1/1952	284	8	VC	7	REHAB	DONALDSON DR	1248B4	PACIFIC BEACH	2	NA	
15	8697	C13S	153	164.83	6	C13S	173	161.52	6	1/1/1952	164	8	VC	2	REHAB	DONALDSON DR	1248B4	PACIFIC BEACH	2	NA	
15	6269632	C13S	536	132.67	4	C13S	169	128.65	6	1/0/1900	101	8	VC	1	REHAB	PENDLETON ST	1248B4	PACIFIC BEACH	2	NA	
16	8752	C13S	233	239.12	6	C13S	232	225.13	10	1/1/1959	75	8	VC	1	REHAB	LA MARQUE ST	1248B4	PACIFIC BEACH	2	NA	
16	8747	C13S	PLUG	145.12	6	C13S	226	140.92	7	1/1/1960	197	8	VC	9	REHAB	ASTER ST	1248C4	PACIFIC BEACH	2	ADD CLEAN OUT	
16	8769	C13S	250	147.49	7	C13S	258	138.85	8	1/1/1960	85	8	VC	0	REHAB	RANDALL ST	1248B4	PACIFIC BEACH	2	NA	OVERLAY, EC 11/30/2012
16	8775	C13S	260	149.65	4	C13S	259	149.35	9	1/1/1960	75	8	VC	0	REHAB	EASEMENT	1248B4	PACIFIC BEACH	2	NA	
16	8776	C13S	PLUG	57.72	10	C13S	260	149.65	4	1/1/1960	38	8	VC	2	REHAB	EASEMENT	1248B4	PACIFIC BEACH	2	ADD CLEAN OUT	

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OVERALL PROJECT SCOPE TABLE**

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17	28067	G18S	66	253.25	7	G18S	67	234.15	8	1/1/1965	118	8	VC	1	REHAB	Condominium Easement	1269A4	UPTOWN	3	NA	
17	28068	G18S	67	234.15	8	G18S	347	184.65	33	1/1/1965	250	8	VC	0	REHAB	Condominium Easement	1269A4	UPTOWN	3	NA	
17	28069	G18S	69	263.20	8	G18S	68	228.20	10	1/1/1971	175	8	VC	2	REHAB	05TH AV	1269A4	UPTOWN	3	NA	
17	28156	G18S	349	107.00	8	G18S	351	85.03	13	1/1/1957	194	8	VC	0	POINT REPAIR/REHAB	SR-163 SB OFF	1269A4	UPTOWN	3	NA	
17	28159	G18S	346	203.56	20	G18S	347	185.64	33	1/1/1971	168	8	VC	0	REHAB	Condominium Easement	1269A4	UPTOWN	3	NA	
17	28158	G18S	347	185.64	33	G18S	348	152.38	6	1/1/1971	126	8	VC	0	POINT REPAIR/REHAB	Easement	1269A4	UPTOWN	3	NA	
17	28160	G18S	345	204.10	17	G18S	346	203.56	20	1/1/1971	53	8	VC	1	REHAB	Condominium Easement	1269A4	UPTOWN	3	NA	
17	28161	G18S	68	228.20	10	G18S	346	203.56	20	1/1/1971	123	8	VC	0	REHAB	05TH AV	1269A4	UPTOWN	3	NA	
17	28162	G18S	344	252.50	10	G18S	345	204.10	17	1/1/1971	245	8	VC	11	REHAB	Condominium Easement	1269A4	UPTOWN	3	NA	
18	33503	H18S	118	328.85	8	H18S	131	327.15	11	1/1/1970	339	8	VC	9	REHAB	ARIZONA ST	1269D5	GREATER NORTH PARK	3	NA	
18	33506	H18S	131	327.15	11	H18S	133	326.20	8	1/1/1970	190	8	VC	1	REHAB	ARIZONA ST	1269D5	GREATER NORTH PARK	3	NA	
18	33549	H18S	105	343.78	10	H18S	108	335.20	10	1/1/1970	338	8	VC	8	REHAB	ALLEY	1269D5	GREATER NORTH PARK	3	NA	
18	33550	H18S	114	330.55	10	H18S	118	328.85	8	1/1/1970	340	8	VC	7	REHAB	ARIZONA ST	1269D5	GREATER NORTH PARK	3	NA	
18	33556	H18S	108	335.20	10	H18S	111	331.30	12	1/1/1970	341	8	VC	9	REHAB	ALLEY	1269D5	GREATER NORTH PARK	3	NA	
18	33559	H18S	116	324.19	8	H18S	120	313.65	9	1/1/1956	380	8	VC	0	INTERNAL POINT REPAIR/REHAB	HOWARD AV	1269D5	GREATER NORTH PARK	3	NA	
18	33564	H18S	PLUG	348.82	8	H18S	105	343.78	10	1/1/1970	178	8	VC	6	REHAB	ALLEY	1269D4	GREATER NORTH PARK	3	ADD CLEAN OUT	
18	33566	H18S	PLUG	332.75	6	H18S	114	330.55	10	1/1/1970	190	8	VC	4	REHAB	ARIZONA ST	1269D4	GREATER NORTH PARK	3	ADD CLEAN OUT	
19	33282	H17S	121	382.11	12	H17S	118	380.68	13	1/1/1959	326	8	VC	12	REHAB	ALLEY	1269E3	GREATER NORTH PARK	3	NA	Overlay EC 6'11
19	33361	H17S	118	380.68	13	H18S	245	378.25	13	1/1/1959	360	8	VC	16	REHAB	ALLEY	1269E3	GREATER NORTH PARK	3	NA	
19	33362	H18S	245	378.25	13	H18S	244	376.50	21	1/1/1959	321	8	VC	14	REHAB	ALLEY	1269E3	GREATER NORTH PARK	3	NA	Overlay SC 3'12, EC 10'12
20	33363	H18S	263	387.00	5	H18S	273	386.24	6	1/1/1966	118	8	VC	0	REHAB	IOWA ST	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
20	33409	H18S	264	380.61	6	H18S	263	387.00	5	1/1/1966	135	8	VC	1	REHAB	IOWA ST	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
20	33413	H17S	212	390.45	5	H18S	264	380.61	6	1/1/1966	330	8	VC	10	REHAB	IOWA ST	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
20	38242	H18S	273	386.24	6	H18S	362	384.62	6	1/1/1966	147	8	VC	1	REHAB	IOWA ST	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
21	33230	H17S	62	391.40	10	H17S	61	390.60	11	2/16/1971	197	8	VC	6	REHAB	WEST MTN VIEW DR	1269E2	MID-CITY:NORMAL HEIGHTS	3	NA	
21	33339	H17S	61	390.60	11	H17S	311	389.70	10	2/16/1971	223	8	VC	7	REHAB	WEST MTN VIEW DR	1269E2	MID-CITY:NORMAL HEIGHTS	3	NA	



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21	37926	I175	311	389.70	10	I175	312	388.90	9	2/16/1971	184	8	VC	5	REHAB	WEST MTN VIEW DR	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
21	37927	I175	312	388.90	9	I175	314	388.30	12	2/16/1971	162	8	VC	4	REHAB	WEST MTN VIEW DR	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
21	37946	I175	336	393.60	5	I175	314	388.30	12	2/16/1971	379	8	VC	7	REHAB	COPLEY AV	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	Overlay SC 8'11, EC 8'12
22	33308	H175	147	386.09	11	H175	146	385.02	12	2/16/1971	267	8	VC	8	REHAB	WEST MTN VIEW DR	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
22	33309	I175	317	394.52	6	H175	147	386.09	11	2/16/1971	250	8	VC	6	REHAB	ALLEY	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
22	33310	I175	316	387.20	12	H175	147	386.09	11	2/16/1971	279	8	VC	9	REHAB	WEST MTN VIEW DR	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
22	37928	I175	314	388.30	12	I175	316	387.20	12	2/16/1971	277	8	VC	7	REHAB	WEST MTN VIEW DR	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
22	37943	I175	333	395.37	5	I175	317	394.52	6	9/8/1925	213	8	VC	6	REHAB	ALLEY	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
22	37944	I175	334	396.75	5	I175	333	395.37	5	9/8/1925	270	8	VC	5	REHAB	ALLEY	1269E3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37965	I175	368	387.24	9	I175	358	385.63	10	1/1/1968	170	8	VC	4	INTERNAL POINT REPAIR/REHAB	COLLIER AV	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	Verify if Internal PT Repair is possible or needed
23	37970	I175	365	396.12	5	I175	367	392.85	7	1/1/1968	261	8	VC	12	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37971	I175	367	392.85	7	I175	368	387.24	9	1/1/1968	343	8	VC	13	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37977	I175	385	388.44	4	I175	370	386.08	9	1/1/1968	172	8	VC	2	POINT REPAIR/REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37979	I175	387	391.85	6	I175	385	388.44	4	1/1/1968	245	8	VC	10	POINT REPAIR/REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37980	I175	388	392.72	7	I175	387	391.85	6	9/8/1925	255	8	VC	7	POINT REPAIR/REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37982	I175	PLUG	396.08	4	I175	389	394.64	5	9/8/1925	187	8	VC	10	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	ADD CLEAN OUT	
24	38005	I175	412	388.09	12	I175	396	386.69	9	1/1/1968	183	8	VC	1	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
24	38006	I175	415	390.78	10	I175	412	388.09	12	1/1/1968	351	8	VC	13	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	Overlay (crossing) SC 4'11, EC 7'12
24	38007	I175	417	393.03	10	I175	415	390.78	10	1/1/1968	294	8	VC	11	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
24	38008	I175	418	395.49	5	I175	417	393.03	10	1/1/1968	300	8	VC	14	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	



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25	37957	I17S	PLUG	386.00	11	I17S	344	379.56	12	1/1/1959	153	8	VC	3	REHAB	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	ADD CLEAN OUT	
26	37744	I17S	81	381.35	15	I17S	83	372.20	22	1/1/1967	210	8	VC	4	REHAB	SYDNEY PL	1269F2	MID-CITY:NORMAL HEIGHTS	3	NA	
26	37745	I17S	84	373.26	14	I17S	83	372.20	22	1/1/1967	180	8	VC	7	POINT REPAIR/REHAB	SYDNEY PL	1269G2	MID-CITY:NORMAL HEIGHTS	3	NA	Verify if Internal PT Repair is possible or
26	37746	I17S	83	372.20	22	I17S	87	370.34	25	1/1/1967	385	8	VC	9	REHAB	RAYMOND PL	1269G2	MID-CITY:NORMAL HEIGHTS	3	NA	
26	37749	I17S	87	370.34	25	I17S	88	367.80	17	1/1/1967	213	8	VC	4	REHAB	EUGENE PL	1269F2	MID-CITY:NORMAL HEIGHTS	3	NA	
26	37752	I17S	88	367.80	17	I17S	92	365.00	18	1/1/1967	316	8	VC	7	POINT REPAIR/REHAB	EUGENE PL	1269G2	MID-CITY:NORMAL HEIGHTS	3	NA	
27	24379	F21S	442	UNK	UNK	F21S	123	UNK	UNK	1/0/1900	35	8	VC	1	REHAB	Parking Lot	1288J1	DOWNTOWN	3	NA	Maybe 6" CP
27	24602	F21S	129	UNK	UNK	F21S	442	UNK	UNK	10/9/1930	35	8	UNKNOWN	2	REHAB	Parking Lot	1288J1	DOWNTOWN	3	NA	Maybe 6" CP
28	29363	G22S	956	38.30	12	G22S	304	37.69	14	1/1/1961	86	8	VC	0	REHAB	07TH AV	1289B3	DOWNTOWN	3	NA	
28	29366	G22S	302	43.60	8	G22S	304	37.39	14	1/1/1978	57	8	VC	1	REHAB	07TH AV	1289B3	DOWNTOWN	3	NA	
28	5575495	G22S	313	41.12	15	G22S	956	38.30	12	1/1/1961	110	8	VC	1	REHAB	07TH AV	1289B3	DOWNTOWN	3	NA	
29	29117	G21S	266	108.56	UNK	G21S	267	79.16	10	1/1/1963	260	8	VC	2	POINT REPAIR/REHAB	10TH AV	1289B2	DOWNTOWN	3	NA	
29	29118	G21S	267	79.16	10	G21S	268	78.54	6	1/1/1963	156	8	VC	2	REHAB	10TH AV	1289B2	DOWNTOWN	3	NA	
30	39312	I21S	470	230.47	6	I21S	469	208.02	7	1/0/1900	180	8	VC	8	REHAB	FELTON ST	1289F1	GREATER GOLDEN HILL	3	NA	
30	39317	I21S	469	208.02	7	I21S	468	208.49	7	1/0/1900	271	8	VC	1	INTERNAL POINT REPAIR/REHAB	ELM ST	1289F2	GREATER GOLDEN HILL	3	NA	Verify if Internal PT Repair is possible or needed
30	39318	I21S	468	208.49	7	I21S	343	204.15	7	1/0/1900	208	8	VC	10	REHAB	GREGORY ST	1289F2	GREATER GOLDEN HILL	3	NA	
30	39332	I21S	343	204.15	7	I21S	347	202.12	8	1/0/1900	120	8	VC	0	REHAB	GREGORY ST	1289F1	GREATER GOLDEN HILL	3	NA	
30	39424	I21S	566	231.35	6	I21S	470	230.47	6	1/0/1900	150	8	VC	5	REHAB	FELTON ST	1289F1	GREATER GOLDEN HILL	3	NA	
31	39197	I21S	PLUG	226.33	9	I21S	322	225.93	10	11/9/1956	40	8	VC	2	REHAB	PETRA DR	1289F1	GREATER NORTH PARK	3	ADD CLEAN OUT	
31	39328	I21S	PLUG	219.51	51	I21S	306	205.51	6	10/22/1956	200	8	VC	7	REHAB	FIR ST	1289F1	GREATER NORTH PARK	3	ADD CLEAN OUT	
31	39335	I21S	306	205.51	6	I21S	506	198.94	6	10/22/1956	94	8	VC	2	REHAB	FRIEDRICK DR	1289F1	GREATER NORTH PARK	3	NA	
31	39392	I21S	313	219.95	5	I21S	334	218.85	6	11/9/1956	110	8	VC	2	REHAB	PETRA PL	1289F1	GREATER NORTH PARK	3	NA	
31	39401	I21S	322	225.93	10	I21S	313	219.95	5	11/9/1956	230	8	VC	6	REHAB	PETRA PL	1289F1	GREATER NORTH PARK	3	NA	Overlay SC 11'12, EC 6'13
32	39329	I21S	304	208.62	17	I21S	309	201.86	6	10/22/1956	211	8	VC	0	REHAB	PETRA DR	1289F1	GREATER NORTH PARK	3	NA	Overlay SC 11'12, EC 6'13
32	39331	I21S	309	201.86	6	I21S	307	195.46	6	10/22/1956	80	8	VC	2	REHAB	PETRA DR	1289F1	GREATER NORTH PARK	3	NA	

**PIPELINE REHABILITATION V-1  
OVERALL PROJECT SCOPE TABLE**

SHEET NO.	FSN	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 DTAE	LENGTH (Feet)	SIZE (inches)	MATL	# LATERALS	ACTION	STREET NAME	THOMAS BRO	COMMUNITY	COUNCIL DISTRICT	REMARKS	CONFLICT COMMENTS
32	39336	I21S	506	198.94	6	I21S	503	181.60	6	1/1/1956	248	8	VC	7	REHAB	FRIEDRICK DR	1289F1	GREATER NORTH PARK	3	NA	
32	39458	I21S	307	195.46	6	I21S	505	169.82	8	1/1/1956	288	8	VC	10	REHAB	PETRA DR	1289F2	GREATER NORTH PARK	3	NA	
32	39459	I21S	256	155.37	6	I21S	288	143.19	6	10/22/1956	169	8	VC	2	REHAB	FRIEDRICK DR	1289F2	GREATER NORTH PARK	3	NA	
32	39460	I21S	504			I21S	256	155.37	6	1/1/1956	125	8	VC	2	REHAB	FRIEDRICK DR	1289F2	GREATER NORTH PARK	3	NA	
32	39461	I21S	505	169.82	8	I21S	504	164.10	7	1/1/1956	166	8	VC	3	REHAB	PETRA DR	1289F2	GREATER NORTH PARK	3	NA	
32	39462	I21S	503	181.60	6	I21S	504	164.10	7	1/1/1956	248	8	VC	8	REHAB	FRIEDRICK DR	1289F2	GREATER NORTH PARK	3	NA	
33	39326	I21S	300	200.12	13	I21S	301	197.11	11	1/1/1958	191	8	VC	5	REHAB	PENTUCKETT AV	1289F1	GREATER NORTH PARK	3	NA	
33	39387	I21S	PLUG	206.12	12	I21S	300	200.12	13	1/1/1958	165	8	VC	3	REHAB	FIR ST	1289F1	GREATER NORTH PARK	3	ADD CLEAN OUT	
33	39388	I21S	324	228.64	3	I21S	315	227.76	17	7/5/1955	220	8	VC	3	REHAB	GRAPE ST	1289F1	GREATER NORTH PARK	3	NA	
33	39390	I21S	325	235.25	4	I21S	324	228.64	3	7/5/1955	173	8	VC	6	REHAB	GRAPE ST	1289F1	GREATER NORTH PARK	3	NA	
33	39395	I21S	PLUG	212.39	6	I21S	310	210.49	11	4/20/1959	190	8	VC	3	REHAB	FIR ST	1289F1	GREATER NORTH PARK	3	ADD CLEAN OUT	
33	39396	I21S	PLUG	209.42	13	I21S	304	208.64	17	10/22/1956	200	8	VC	5	REHAB	FIR ST	1289F1	GREATER NORTH PARK	3	ADD CLEAN OUT	
33	39397	I21S	310	210.49	11	I21S	300	200.12	13	1/1/1958	135	8	VC	3	REHAB	FIR ST	1289F1	GREATER NORTH PARK	3	NA	
33	39398	I21S	PLUG	210.62	6.12	I21S	300	200.12	13	1/1/1958	108	8	VC	2	REHAB	PENTUCKETT AV	1289F1	GREATER NORTH PARK	3	ADD CLEAN OUT	
33	39399	I21S	315	227.76	17	I21S	316	227.23	17	7/5/1955	132	8	VC	1	REHAB	PETRA DR	1289F1	GREATER NORTH PARK	3	NA	Overlay SC 11'12, EC 6'13
33	39400	I21S	316	227.23	17	I21S	323	226.76	17	11/9/1956	117	8	VC	3	REHAB	PETRA DR	1289F1	GREATER NORTH PARK	3	NA	Overlay SC 11'12, EC 6'13
33	39402	I21S	323	226.76	17	I21S	322	225.93	10	11/9/1956	208	8	VC	7	REHAB	PETRA DR	1289F1	GREATER NORTH PARK	3	NA	Overlay SC 11'12, EC 6'13
34	39330	I21S	301	197.11	11	I21S	312	194.12	11	1/1/1961	194	8	VC	4	REHAB	PENTUCKETT AV	1289F1	GREATER NORTH PARK	3	NA	
34	39425	I21S	312	194.12	11	I21S	253	192.82	12	1/1/1958	325	8	VC	13	POINT REPAIR/REHAB	PENTUCKETT AV	1289F2	GREATER NORTH PARK	3	NA	
34	39467	I21S	253	192.82	12	I21S	286	186.12	8	1/1/1958	300	8	VC	12	REHAB	PENTUCKETT AV	1289F2	GREATER NORTH PARK	3	NA	
35	39231	I21S	64	205.12	6	I21S	42	191.12	7	1/1/1963	350	8	VC	12	REHAB	MONTCLAIR ST	1289G1	GREATER NORTH PARK	3	NA	
35	39254	I21S	172	209.62	7	I21S	63	205.42	7	1/1/1963	350	8	VC	13	REHAB	BOUNDARY ST	1289G1	GREATER NORTH PARK	3	NA	
35	39365	I21S	171	215.27	12	I21S	172	209.62	7	1/1/1963	297	8	VC	7	REHAB	BOUNDARY ST	1289F1	GREATER NORTH PARK	3	NA	



**PIPELINE REHABILITATION V-1  
OVERALL PROJECT SCOPE TABLE**

SHEET NO.	FSN	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 DTAE	LENGTH (Feet)	SIZE (inches)	MATL	# LATERALS	ACTION	STREET NAME	THOMAS BRO	COMMUNITY	COUNCIL DISTRICT	REMARKS	CONFLICT COMMENTS
36	39227	I215	42	191.12	7	I215	41	178.16	8	1/1/1963	162	8	VC	6	REHAB	MONTCLAIR ST	1289G1	GREATER NORTH PARK	3	NA	
36	39232	I215	PLUG	195.53	5.43	I215	40	195.60	7	1/1/1962	203	8	VC	10	REHAB	BECKY PL	1289G1	GREATER NORTH PARK	3	ADD CLEAN OUT	
36	39242	I215	41	178.16	8	I215	453	166.32	8	1/1/1963	148	8	VC	4	REHAB	MONTCLAIR ST	1289G1	GREATER NORTH PARK	3	NA	
36	39243	I215	62	198.81	6	I215	52	156.81	10	1/1/1963	350	8	VC	10	REHAB	BOUNDARY ST	1289G1	GREATER NORTH PARK	3	NA	
36	39244	I215	453	166.32	8	I215	52	156.81	10	1/1/1963	139	8	VC	2	REHAB	MONTCLAIR ST	1289G1	GREATER NORTH PARK	3	NA	
36	39253	I215	63	205.42	7	I215	62	198.81	6	1/1/1963	189	8	VC	6	REHAB	BOUNDARY ST	1289G1	GREATER NORTH PARK	3	NA	

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**TOTAL LENGTH 7.95**

- Add Cleanout ( Total = 24)
- Point Repair Sewer (Total = 13)
- Rehab MH (Total = 61)
- Internal Point Repairs Sewer (Total = 3)
- Replace MH ( Total = 1)
- Repair MH (Total = 1)
- Holes in Manhole (Total = 1)

**APPENDIX K**

**PIPELINE REHABILITATION V-1 SEWER LATERAL SUMMARY TABLES**

**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 01	1	185813	B13S	4	1334	VUE DE VILLE CT	1247J4	3737	
Sheet 01	2	185869	B13S	4	1354	VUE DE VILLE CT	1247J4	3737	
Sheet 01	3	185825	B13S	4	1344	VUE DE VILLE CT	1247J4	3737	
Sheet 01	4	311110	B13S	4	1363	VUE DE VILLE CT	1247J4	3737	
Sheet 01	5	311043	B13S	4	1353	VUE DE VILLE CT	1247J4	3737	
Sheet 01	6	186051	B13S	4	1369	VUE DE VILLE CT	1247J4	3737	
Sheet 01	7	185816	B13S	4	1343	VUE DE VILLE CT	1247J4	3737	
Sheet 01	8	311159	B13S	4	5421	CASTLE HILLS DR	1247J4	3738	
Sheet 01	9	311135	B13S	4	5414	CASTLE HILLS DR	1247J4	3738	
Sheet 01	10	311222	B13S	4	5409	CASTLE HILLS DR	1247J4	3738	
Sheet 01	11	311071	B13S	4	5421	CASTLE HILLS DR	1247J4	3738	
Sheet 01	12	310940	B13S	4	5445	CASTLE HILLS DR	1247J4	3787	
Sheet 01	13	310986	B13S	4	5434	CASTLE HILLS DR	1247J4	3787	
Sheet 01	14	311042	B13S	4	5433	CASTLE HILLS DR	1247J4	3787	
Sheet 01	15	185639	B13S	4	5456	CASTLE HILLS DR	1247J4	3788	
Sheet 01	16	185509	B13S	4	5470	CASTLE HILLS DR	1247J4	3788	
Sheet 01	17	310735	B13S	4	5469	CASTLE HILLS DR	1247J4	3788	
Sheet 01	18	185587	B13S	4	5457	CASTLE HILLS DR	1247J4	3788	
Sheet 01	19	185334	B13S	4	5473	CASTLE HILLS DR	1247J3	3788	
Sheet 01	20	185323	B13S	4	5476	CASTLE HILLS DR	1247J3	3789	
Sheet 01	21	5640730	B13S	4	1422	SANDAL LN	1247J3	3789	
Sheet 01	22	310491	B13S	4	5512	CASTLE HILLS DR	1247J3	3789	
Sheet 01	23	310558	B13S	4	5506	CASTLE HILLS DR	1247J3	3789	
Sheet 02	24	186609	B13S	4	5319	CASTLE HILLS DR	1247J4	3724	
Sheet 02	25	187131	B13S	4	1403	VUE DU BAY CT	1247J4	3734	
Sheet 02	26	186829	B13S	4	1422	VUE DU BAY CT	1247J4	3734	
Sheet 02	27	311924	B13S	4	1411	VUE DU BAY CT	1247J4	3734	
Sheet 02	28	186844	B13S	4	1427	VUE DU BAY CT	1247J4	3734	
Sheet 02	29	311837	B13S	4	1419	VUE DU BAY CT	1247J4	3734	
Sheet 02	30	186903	B13S	4	1408	VUE DU BAY CT	1247J4	3734	
Sheet 02	31	186495	B13S	4	5331	CASTLE HILLS DR	1247J4	3736	
Sheet 02	32	311301	B13S	4	5355	CASTLE HILLS DR	1247J4	3736	
Sheet 02	33	311412	B13S	4	5343	CASTLE HILLS DR	1247J4	3736	
Sheet 02	34	311376	B13S	4	5336	CASTLE HILLS DR	1247J4	3736	
Sheet 02	35	186491	B13S	4	1452	VUE DU BAY CT	1247J4	3739	
Sheet 02	36	186480	B13S	4	1458	VUE DU BAY CT	1247J4	3739	
Sheet 02	37	186798	B13S	4	1435	VUE DU BAY CT	1247J4	3739	
Sheet 02	38	311497	B13S	4	1446	VUE DU BAY CT	1247J4	3739	
Sheet 02	39	186600	B13S	4	1451	VUE DU BAY CT	1247J4	3739	
Sheet 02	40	186479	B13S	4	1459	VUE DU BAY CT	1247J4	3739	
Sheet 02	41	311578	B13S	4	1438	VUE DU BAY CT	1247J4	3739	
Sheet 02	42	186701	B13S	4	1443	VUE DU BAY CT	1247J4	3739	
Sheet 02	43	311615	B13S	4	1430	VUE DU BAY CT	1247J4	3739	
Sheet 03	44	187243	B13S	4	5315	ALTA BAHIA CT	1247J4	3726	
Sheet 03	45	187331	B13S	4	5303	ALTA BAHIA CT	1247J4	3726	
Sheet 03	46	187317	B13S	4	5302	ALTA BAHIA CT	1247J4	3726	
Sheet 03	47	312248	B13S	4	5259	CASTLE HILLS DR	1247J4	3732	
Sheet 03	48	187452	B13S	4	5267	CASTLE HILLS DR	1247J4	3732	
Sheet 03	49	187590	B13S	4	5254	CASTLE HILLS DR	1247J4	3732	
Sheet 03	50	187444	B13S	4	5264	CASTLE HILLS DR	1247J4	3732	
Sheet 03	51	312280	B13S	4	5259	CASTLE HILLS DR	1247J4	3732	
Sheet 04	52	187707	B13S	4	5244	CASTLE HILLS DR	1247J4	3731	
Sheet 04	53	187790	B13S	4	5235	CASTLE HILLS DR	1247J4	3731	
Sheet 04	54	312460	B13S	4	5234	CASTLE HILLS DR	1247J4	3731	
Sheet 04	55	312339	B13S	4	5251	CASTLE HILLS DR	1247J4	3731	
Sheet 04	56	312411	B13S	4	5243	CASTLE HILLS DR	1247J4	3731	
Sheet 04	57	312469	B13S	4	5235	CASTLE HILLS DR	1247J4	3731	
Sheet 04	58	5640039	B13S	4	5122	WINDSOR DR	1247J4	3754	
Sheet 04	59	187927	B13S	4	5132	WINDSOR DR	1247J4	3754	
Sheet 04	60	312505	B13S	4	5137	WINDSOR DR	1247J4	3754	
Sheet 04	61	188023	B13S	4	5121	WINDSOR DR	1247J4	3754	
Sheet 04	62	187743	B13S	4	5153	WINDSOR DR	1247J4	3755	
Sheet 04	63	187741	B13S	4	5150	WINDSOR DR	1247J4	3755	
Sheet 04	64	187668	B13S	4	5169	WINDSOR DR	1247J4	3755	
Sheet 04	65	188267	B13S	4	5101	WINDSOR DR	1247J4	3865	
Sheet 04	66	312722	B13S	4	5111	WINDSOR DR	1247J4	3865	
Sheet 04	67	312732	B13S	4	5112	WINDSOR DR	1247J4	3865	
Sheet 04	68	312895	B13S	4	5093	WINDSOR DR	1247J4	3865	
Sheet 05	69	312181	C13S	4	5185	ALTA VISTA ST	1247J4	8559	
Sheet 05	70	187276	C13S	4	5206	ALTA VISTA ST	1247J4	8559	
Sheet 05	71	312011	C13S	4	5211	ALTA VISTA ST	1247J4	8559	
Sheet 05	72	312030	C13S	4	5197	ALTA VISTA ST	1247J4	8559	

**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 05	73	187301	C13S	4	5204	ALTA VISTA ST	1247J4	8559	
Sheet 05	74	187635	C13S	4	5163	CASSANDRA LN	1248A4	8562	
Sheet 05	75	311950	C13S	4	5193	CASSANDRA LN	1248A4	8563	
Sheet 05	76	312085	C13S	4	5183	CASSANDRA LN	1248A4	8563	
Sheet 05	77	187532	C13S	4	5174	CASSANDRA LN	1248A4	8563	
Sheet 05	78	312206	C13S	4	5173	CASSANDRA LN	1248A4	8563	
Sheet 05	79	187290	C13S	4	5184	CASSANDRA LN	1248A4	8563	
Sheet 05	80	187165	C13S	4	5194	CASSANDRA LN	1248A4	8563	
Sheet 05	81	187000	C13S	4	5203	CASSANDRA LN	1248A4	8563	
Sheet 05	82	311734	C13S	4	5217	CASSANDRA LN	1248A4	8564	
Sheet 05	83	186838	C13S	4	5218	CASSANDRA LN	1248A4	8564	
Sheet 05	84	186695	C13S	4	5232	CASSANDRA LN	1248A4	8564	
Sheet 05	85	186983	C13S	4	5204	CASSANDRA LN	1248A4	8564	
Sheet 05	86	311602	C13S	4	5233	CASSANDRA LN	1248A4	8564	
Sheet 05	87	186566	C13S	4	1745	ALTA VISTA WY	1248A4	8564	
Sheet 05	88	186567	C13S	4	1725	ALTA VISTA WY	1247J4	8564	
Sheet 06	89	188622	C13S	4	1609	LOS ALTOS RD	1248A4	8805	
Sheet 06	90	188494	C13S	4	1620	LOS ALTOS RD	1248A4	8805	
Sheet 06	91	188553	C13S	4	1645	LOS ALTOS RD	1248A4	8805	
Sheet 06	92	312870	C13S	4	1696	LOS ALTOS RD	1248A4	8806	
Sheet 06	93	312659	C13S	4	1698	LOS ALTOS RD	1248A4	8807	
Sheet 06	94	188173	C13S	4	1649	LOS ALTOS RD	1248A4	8807	
Sheet 06	95	5641272	C13S	4	1648	LOS ALTOS RD	1248A4	8807	
Sheet 06	96	187876	C13S	4	1730	LOS ALTOS WY	1248A4	8808	
Sheet 06	97	5216056	C13S	4	1707	LOS ALTOS WY	1248A4	8808	
Sheet 06	98	187861	C13S	4	1710	LOS ALTOS WY	1248A4	8808	
Sheet 06	99	312839	C13S	4	5018	SOLEDAD RD	1248A4	8811	
Sheet 07	100	186125	B13S	4	5273	YOST PL	1247J4	3767	
Sheet 07	101	186128	B13S	4	5263	YOST PL	1247J4	3767	
Sheet 07	102	311281	B13S	4	5262	YOST PL	1247J4	3767	
Sheet 07	103	185032	C13S	4	1714	SOLEDAD WY	1247J3	8544	
Sheet 07	104	185033	C13S	4	1704	SOLEDAD WY	1247J3	8544	
Sheet 07	105	310765	C13S	4	1715	SOLEDAD WY	1247J4	8544	
Sheet 07	106	185031	C13S	4	1724	SOLEDAD WY	1247J3	8544	
Sheet 07	107	310541	C13S	4	1725	SOLEDAD WY	1247J3	8544	
Sheet 07	108	310607	C13S	4	1705	SOLEDAD WY	1247J3	8544	
Sheet 07	109	310936	C13S	4	5292	ALTA VISTA ST	1247J4	8545	
Sheet 07	110	310948	C13S	4	1755	ARCHER ST	1247J4	8547	
Sheet 07	111	310826	C13S	4	1776	ARCHER ST	1248A3	8547	
Sheet 07	112	185614	C13S	4	1756	ARCHER ST	1247J4	8547	
Sheet 07	113	185678	C13S	4	5278	SOLEDAD RD	1248A4	8547	
Sheet 07	114	186301	C13S	4	1770	ALTA VISTA WY	1248A4	8549	
Sheet 07	115	311335	C13S	4	1770	ALTA VISTA WY	1248A4	8549	
Sheet 07	116	186329	C13S	4	1740	ALTA VISTA WY	1248A4	8549	
Sheet 07	117	311404	C13S	4	5248	SOLEDAD RD	1248A4	8549	
Sheet 07	118	186212	C13S	4	5256	SOLEDAD RD	1248A4	8549	
Sheet 07	119	186606	C13S	4	5245	ALTA VISTA ST	1247J4	8550	
Sheet 07	120	186373	C13S	4	1726	ALTA VISTA WY	1247J4	8550	
Sheet 07	121	186460	C13S	4	1704	ALTA VISTA WY	1247J4	8550	
Sheet 07	122	311427	C13S	4	1720	ALTA VISTA WY	1247J4	8550	
Sheet 07	123	186363	C13S	4	1730	ALTA VISTA WY	1247J4	8550	
Sheet 07	124	186067	C13S	4	5258	ALTA VISTA ST	1247J4	8552	
Sheet 07	125	376440	C13S	4	5295	ALTA VISTA ST	1247J4	8552	
Sheet 07	126	186073	C13S	4	5285	ALTA VISTA ST	1247J4	8552	
Sheet 07	127	311072	C13S	4	5296	ALTA VISTA ST	1247J4	8552	
Sheet 08	128	185797	C13S	4	5202	PENDLETON ST	1248B4	8608	
Sheet 08	129	186449	C13S	4	5160	MIDDLETON RD	1248B4	8627	
Sheet 08	130	186728	C13S	4	5136	MIDDLETON RD	1248B4	8627	
Sheet 08	131	186895	C13S	4	5122	MIDDLETON RD	1248B4	8627	
Sheet 08	132	311542	C13S	4	5148	MIDDLETON RD	1248B4	8627	
Sheet 08	133	311501	C13S	4	5146	PENDLETON ST	1248B4	8627	
Sheet 08	134	186423	C13S	4	5162	PENDLETON ST	1248B4	8627	
Sheet 08	135	186751	C13S	4	5134	PENDLETON ST	1248B4	8627	
Sheet 08	136	185992	C13S	4	5196	MIDDLETON RD	1248B4	8628	
Sheet 08	137	186112	C13S	4	5184	MIDDLETON RD	1248B4	8628	
Sheet 08	138	311334	C13S	4	5172	MIDDLETON RD	1248B4	8628	
Sheet 08	139	186023	C13S	4	5186	PENDLETON ST	1248B4	8628	
Sheet 08	140	311290	C13S	4	5170	PENDLETON ST	1248B4	8628	
Sheet 08	141	185954	C13S	4	5198	PENDLETON ST	1248B4	8628	
Sheet 08	142	312131	C13S	4	5101	MIDDLETON RD	1248B4	8637	
Sheet 08	143	187270	C13S	4	2404	LORING ST	1248B4	8640	NOT TO BE TELEVISED OR LINED
Sheet 08	144	312102	C13S	4	2404	LORING ST	1248B4	8640	NOT TO BE TELEVISED OR LINED
Sheet 08	145	312123	C13S	4	2404	LORING ST	1248B4	8640	NOT TO BE TELEVISED OR LINED



**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 08	146	312046	C13S	4	2404	LORING ST	1248B4	8640	NOT TO BE TELEVISED OR LINED
Sheet 08	147	312097	C13S	4	2404	LORING ST	1248B4	8641	NOT TO BE TELEVISED OR LINED
Sheet 08	148	187234	C13S	4	2404	LORING ST	1248B4	8641	NOT TO BE TELEVISED OR LINED
Sheet 08	149	187318	C13S	4	2404	LORING ST	1248B4	8641	NOT TO BE TELEVISED OR LINED
Sheet 08	150	187314	C13S	4	2404	LORING ST	1248B4	8641	NOT TO BE TELEVISED OR LINED
Sheet 08	151	5640662	C13S	4	2404	LORING ST	1248B4	8641	NOT TO BE TELEVISED OR LINED
Sheet 08	152	187233	C13S	4	2404	LORING ST	1248B4	8641	NOT TO BE TELEVISED OR LINED
Sheet 08	153	186972	C13S	4	2404	LORING ST	1248B4	8642	NOT TO BE TELEVISED OR LINED
Sheet 09	154	184077	C12S	4	2426	ALTO CERRO CR	1248B3	8422	
Sheet 09	155	5640464	C12S	4	2431	ALTO CERRO CR	1248B3	8422	
Sheet 09	156	5641363	C12S	4	2452	ALTO CERRO CR	1248B3	8422	
Sheet 09	157	309867	C12S	4	2434	ALTO CERRO CR	1248B3	8422	
Sheet 09	158	309884	C12S	4	2447	ALTO CERRO CR	1248B3	8422	
Sheet 09	159	183994	C12S	4	2442	ALTO CERRO CR	1248B3	8422	
Sheet 09	160	184092	C12S	4	2439	ALTO CERRO CR	1248B3	8422	
Sheet 09	161	184068	C12S	4	2455	ALTO CERRO CR	1248B3	8423	
Sheet 09	162	183877	C12S	4	2476	ALTO CERRO CR	1248B3	8423	
Sheet 09	163	183896	C12S	4	2468	ALTO CERRO CR	1248B3	8423	
Sheet 09	164	183981	C12S	4	2471	ALTO CERRO CR	1248B3	8423	
Sheet 09	165	184021	C12S	4	2463	ALTO CERRO CR	1248B3	8423	
Sheet 09	166	183933	C12S	4	2460	ALTO CERRO CR	1248B3	8423	
Sheet 09	167	184656	C13S	4	5255	PENDLETON ST	1248B3	8611	
Sheet 09	168	184492	C13S	4	5272	PENDLETON ST	1248B3	8611	
Sheet 09	169	1129688	C13S	4	5265	PENDLETON ST	1248B3	8611	
Sheet 09	170	184804	C13S	4	5245	PENDLETON ST	1248B3	8611	
Sheet 09	171	184738	C13S	4	5252	PENDLETON ST	1248B3	8611	
Sheet 09	172	184626	C13S	4	5262	PENDLETON ST	1248B3	8611	
Sheet 09	173	184367	C13S	4	5304	PENDLETON ST	1248B3	8612	
Sheet 09	174	309981	C13S	4	5309	PENDLETON ST	1248B3	8612	
Sheet 09	175	310060	C13S	4	5275	PENDLETON ST	1248B3	8612	
Sheet 09	176	309973	C13S	4	5314	PENDLETON ST	1248B3	8612	
Sheet 09	177	184158	C13S	4	2410	ALTO CERRO CR	1248B3	8613	
Sheet 09	178	184318	C13S	4	2402	ALTO CERRO CR	1248B3	8613	
Sheet 09	179	310088	C13S	4	2401	BAJA CERRO CR	1248B3	8613	
Sheet 09	180	184589	C13S	4	2409	BAJA CERRO CR	1248B3	8614	
Sheet 09	181	184595	C13S	4	2428	BAJA CERRO CR	1248B3	8614	
Sheet 09	182	184659	C13S	4	2433	BAJA CERRO CR	1248B3	8615	
Sheet 09	183	184639	C13S	4	2441	BAJA CERRO CR	1248B3	8615	
Sheet 09	184	310152	C13S	4	2436	BAJA CERRO CR	1248B3	8615	
Sheet 09	185	310166	C13S	4	2457	BAJA CERRO CR	1248B3	8616	
Sheet 09	186	310193	C13S	4	2449	BAJA CERRO CR	1248B3	8616	
Sheet 09	187	184396	C13S	4	2468	BAJA CERRO CR	1248B3	8616	
Sheet 09	188	184425	C13S	4	2460	BAJA CERRO CR	1248B3	8616	
Sheet 09	189	184466	C13S	4	2452	BAJA CERRO CR	1248B3	8616	
Sheet 09	190	310147	C13S	4	2465	BAJA CERRO CR	1248B3	8616	
Sheet 09	191	184498	C13S	4	2444	BAJA CERRO CR	1248B3	8616	
Sheet 09	192	310248	C13S	4	2425	BAJA CERRO CR	1248B3	8617	
Sheet 09	193	310279	C13S	4	2417	BAJA CERRO CR	1248B3	8617	
Sheet 10	194	310333	C13S	4	5242	PENDLETON ST	1248B3	8610	
Sheet 10	195	184965	C13S	4	5232	PENDLETON ST	1248B3	8610	
Sheet 10	196	184962	C13S	4	5235	PENDLETON ST	1248B3	8610	
Sheet 10	197	185035	C13S	4	2402	ROMNEY RD	1248B3	8620	
Sheet 10	198	185000	C13S	4	2408	ROMNEY RD	1248B3	8620	
Sheet 10	199	185235	C13S	4	2379	ROMNEY RD	1248B3	8620	
Sheet 10	200	310622	C13S	4	2367	ROMNEY RD	1248B3	8620	
Sheet 10	201	310544	C13S	4	2411	ROMNEY RD	1248B3	8620	
Sheet 10	202	310572	C13S	4	2403	ROMNEY RD	1248B3	8620	
Sheet 10	203	185085	C13S	4	2374	ROMNEY RD	1248B3	8620	
Sheet 10	204	5640391	C13S	4	2364	ROMNEY RD	1248B3	8620	
Sheet 10	205	185257	C13S	4	5225	PENDLETON ST	1248B3	8621	
Sheet 10	206	310702	C13S	4	2331	ROMNEY RD	1248B3	8621	
Sheet 10	207	185203	C13S	4	2344	ROMNEY RD	1248B3	8621	
Sheet 10	208	310655	C13S	4	2355	ROMNEY RD	1248B3	8621	
Sheet 10	209	310682	C13S	4	2343	ROMNEY RD	1248B3	8621	
Sheet 10	210	185043	C13S	4	5190	SAN AQUARIO DR	1248B3	8665	
Sheet 10	211	184966	C13S	4	5187	SAN AQUARIO DR	1248B3	8665	
Sheet 10	212	1130048	C13S	4	5193	SAN AQUARIO DR	1248B3	8665	
Sheet 10	213	184909	C13S	4	2451	ROMNEY RD	1248B3	8673	
Sheet 10	214	184816	C13S	4	2444	ROMNEY RD	1248B3	8673	
Sheet 10	215	310295	C13S	4	2452	ROMNEY RD	1248B3	8673	
Sheet 10	216	310418	C13S	4	2445	ROMNEY RD	1248B3	8673	
Sheet 10	217	310497	C13S	4	2427	ROMNEY RD	1248B3	8674	
Sheet 10	218	310445	C13S	4	2439	ROMNEY RD	1248B3	8674	
Sheet 10	219	310526	C13S	4	2419	ROMNEY RD	1248B3	8674	

**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 10	220	310471	C13S	4	2433	ROMNEY RD	1248B3	8674	
Sheet 10	221	184868	C13S	4	2436	ROMNEY RD	1248B3	8674	
Sheet 10	222	184933	C13S	4	2422	ROMNEY RD	1248B3	8674	
Sheet 10	223	184899	C13S	4	2430	ROMNEY RD	1248B3	8674	
Sheet 10	224	310435	C13S	4	2416	ROMNEY RD	1248B3	8674	
Sheet 11	225	311447	C13S	4	5068	SAN AQUARIO DR	1248B4	8660	
Sheet 11	226	186735	C13S	4	5044	SAN AQUARIO DR	1248C4	8660	
Sheet 11	227	186670	C13S	4	5043	SAN AQUARIO DR	1248C4	8660	
Sheet 11	228	311448	C13S	4	5059	SAN AQUARIO DR	1248C4	8660	
Sheet 11	229	311527	C13S	4	5060	SAN AQUARIO DR	1248B4	8660	
Sheet 11	230	186674	C13S	4	5052	SAN AQUARIO DR	1248B4	8660	
Sheet 11	231	311363	C13S	4	5067	SAN AQUARIO DR	1248B4	8660	
Sheet 11	232	186557	C13S	4	5051	SAN AQUARIO DR	1248C4	8660	
Sheet 11	233	186340	C13S	4	5076	SAN AQUARIO DR	1248B4	8661	
Sheet 11	234	311212	C13S	4	5081	SAN AQUARIO DR	1248B4	8661	
Sheet 11	235	186234	C13S	4	5082	SAN AQUARIO DR	1248B4	8661	
Sheet 11	236	311140	C13S	4	5101	SAN AQUARIO DR	1248B4	8661	
Sheet 11	237	186117	C13S	4	5102	SAN AQUARIO DR	1248B4	8661	
Sheet 11	238	185905	C13S	4	5111	SAN AQUARIO DR	1248B3	8661	
Sheet 11	239	311294	C13S	4	5075	SAN AQUARIO DR	1248B4	8661	
Sheet 11	240	311153	C13S	4	5110	SAN AQUARIO DR	1248B4	8661	
Sheet 11	241	185728	C13S	4	5129	SAN AQUARIO DR	1248B3	8662	
Sheet 11	242	185658	C13S	4	5137	SAN AQUARIO DR	1248B3	8662	
Sheet 11	243	185908	C13S	4	5118	SAN AQUARIO DR	1248B4	8662	
Sheet 11	244	310989	C13S	4	5121	SAN AQUARIO DR	1248B3	8662	
Sheet 11	245	310973	C13S	4	5132	SAN AQUARIO DR	1248B3	8662	
Sheet 11	246	310917	C13S	4	5148	SAN AQUARIO DR	1248B3	8663	
Sheet 11	247	310773	C13S	4	5153	SAN AQUARIO DR	1248B3	8663	
Sheet 11	248	185512	C13S	4	5162	SAN AQUARIO DR	1248B3	8663	
Sheet 11	249	185621	C13S	4	5150	SAN AQUARIO DR	1248B3	8663	
Sheet 11	250	185556	C13S	4	5145	SAN AQUARIO DR	1248B3	8663	
Sheet 11	251	185290	C13S	4	5171	SAN AQUARIO DR	1248B3	8664	
Sheet 11	252	185239	C13S	4	5182	SAN AQUARIO DR	1248B3	8664	
Sheet 11	253	185166	C13S	4	5181	SAN AQUARIO DR	1248B3	8664	
Sheet 11	254	185421	C13S	4	5172	SAN AQUARIO DR	1248B3	8664	
Sheet 11	255	185652	C13S	4	5102	PACIFICA DR	1248B3	8666	
Sheet 11	256	185759	C13S	4	5096	PACIFICA DR	1248B3	8666	
Sheet 11	257	185523	C13S	4	5105	PACIFICA DR	1248B3	8666	
Sheet 11	258	310862	C13S	4	5097	PACIFICA DR	1248B3	8666	
Sheet 11	259	310654	C13S	4	5117	PACIFICA DR	1248B3	8666	
Sheet 11	260	310714	C13S	4	5111	PACIFICA DR	1248B3	8666	
Sheet 11	261	185545	C13S	4	5108	PACIFICA DR	1248B3	8666	
Sheet 11	262	185436	C13S	4	5116	PACIFICA DR	1248B3	8666	
Sheet 11	263	310590	C13S	4	5123	PACIFICA DR	1248B3	8667	
Sheet 11	264	310429	C13S	4	5141	PACIFICA DR	1248B3	8667	
Sheet 11	265	185066	C13S	4	5144	PACIFICA DR	1248B3	8667	
Sheet 11	266	185159	C13S	4	5138	PACIFICA DR	1248B3	8667	
Sheet 11	267	310478	C13S	4	5135	PACIFICA DR	1248B3	8667	
Sheet 11	268	184914	C13S	4	5147	PACIFICA DR	1248B3	8667	
Sheet 11	269	184993	C13S	4	5150	PACIFICA DR	1248B3	8667	
Sheet 11	270	185355	C13S	4	5126	PACIFICA DR	1248B3	8667	
Sheet 11	271	185121	C13S	4	5129	PACIFICA DR	1248B3	8667	
Sheet 11	272	310613	C13S	4	5132	PACIFICA DR	1248B3	8667	
Sheet 11	273	184904	C13S	4	5156	PACIFICA DR	1248B3	8668	
Sheet 11	274	184817	C13S	4	5153	PACIFICA DR	1248B3	8668	
Sheet 11	275	184591	C13S	4	5171	PACIFICA DR	1248B3	8669	
Sheet 11	276	184694	C13S	4	5159	PACIFICA DR	1248B3	8669	
Sheet 11	277	184674	C13S	4	5168	PACIFICA DR	1248B3	8669	
Sheet 11	278	184800	C13S	4	5162	PACIFICA DR	1248B3	8669	
Sheet 11	279	310061	C13S	4	5205	PACIFICA DR	1248B3	8669	
Sheet 11	280	310234	C13S	4	5165	PACIFICA DR	1248B3	8669	
Sheet 11	281	310161	C13S	4	5174	PACIFICA DR	1248B3	8669	
Sheet 11	282	184478	C13S	4	5177	PACIFICA DR	1248B3	8669	
Sheet 12	283	187180	C13S	4	5027	RANDALL ST	1248B4	8646	
Sheet 12	284	187014	C13S	4	5047	RANDALL ST	1248B4	8646	
Sheet 12	285	311903	C13S	4	5037	RANDALL ST	1248B4	8646	
Sheet 12	286	187291	C13S	4	5017	RANDALL ST	1248B4	8646	
Sheet 12	287	187421	C13S	4	5007	RANDALL ST	1248B4	8647	
Sheet 12	288	312417	C13S	4	2498	LA MARQUE ST	1248B4	8648	NOT TO BE TELEVISED OR LINED
Sheet 12	289	312233	C13S	4	2522	LORING ST	1248B4	8650	
Sheet 12	290	187486	C13S	4	2514	LORING ST	1248B4	8650	
Sheet 12	291	312223	C13S	4	2518	LORING ST	1248B4	8650	
Sheet 12	292	187900	C13S	4	2546	SAN ANSELMO ST	1248C4	8652	NOT TO BE TELEVISED OR LINED
Sheet 12	293	312518	C13S	4	2538	SAN ANSELMO ST	1248C4	8652	NOT TO BE TELEVISED OR LINED



**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 12	294	187225	C13S	4	5012	SAN JOAQUIN DR	1248B4	8656	
Sheet 12	295	311983	C13S	4	5013	SAN JOAQUIN DR	1248B4	8656	
Sheet 12	296	312058	C13S	4	5009	SAN JOAQUIN DR	1248B4	8656	
Sheet 12	297	186961	C13S	4	5030	SAN JOAQUIN DR	1248B4	8657	
Sheet 12	298	311828	C13S	4	5023	SAN JOAQUIN DR	1248B4	8657	
Sheet 12	299	311905	C13S	4	5024	SAN JOAQUIN DR	1248B4	8657	
Sheet 12	300	187170	C13S	4	5018	SAN JOAQUIN DR	1248B4	8657	
Sheet 12	301	311916	C13S	4	5017	SAN JOAQUIN DR	1248B4	8657	
Sheet 12	302	311728	C13S	4	5029	SAN JOAQUIN DR	1248B4	8657	
Sheet 12	303	186415	C13S	4	5060	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	304	186663	C13S	4	5041	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	305	311353	C13S	4	5063	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	306	311653	C13S	4	5035	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	307	311505	C13S	4	5054	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	308	186424	C13S	4	5053	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	309	186669	C13S	4	5048	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	310	186533	C13S	4	5047	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	311	186863	C13S	4	5036	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	312	311674	C13S	4	5042	SAN JOAQUIN DR	1248B4	8658	
Sheet 12	313	186082	C13S	4	5078	SAN JOAQUIN DR	1248B4	8659	
Sheet 12	314	186136	C13S	4	5069	SAN JOAQUIN DR	1248B4	8659	
Sheet 12	315	186095	C13S	4	5072	SAN JOAQUIN DR	1248B4	8659	
Sheet 12	316	186081	C13S	4	5075	SAN JOAQUIN DR	1248B4	8659	
Sheet 12	317	311325	C13S	4	5066	SAN JOAQUIN DR	1248B4	8659	
Sheet 12	318	187991	D13S	4	2554	SAN ANSELMO ST	1248C4	8748	
Sheet 12	319	312629	D13S	4	2562	SAN ANSELMO ST	1248C4	8748	
Sheet 12	320	188077	C13S	4	2543	SAN ANSELMO ST	1248C4	8748	
Sheet 12	321	188112	D13S	4	2559	SAN ANSELMO ST	1248C4	8748	
Sheet 13	322	312086	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	323	312216	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	324	187404	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	325	312236	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	326	312202	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	327	312187	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	328	5640634	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	329	5640635	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	330	5640633	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	331	5641283	C13S	4	2404	LORING ST	1248B4	8643	NOT TO BE TELEVISED OR LINED
Sheet 13	332	312273	C13S	4	2404	LORING ST	1248B4	8644	NOT TO BE TELEVISED OR LINED
Sheet 13	333	5640626	C13S	4	2404	LORING ST	1248B4	8644	NOT TO BE TELEVISED OR LINED
Sheet 13	334	312253	C13S	4	2404	LORING ST	1248B4	8644	NOT TO BE TELEVISED OR LINED
Sheet 13	335	312220	C13S	4	2404	LORING ST	1248B4	8644	NOT TO BE TELEVISED OR LINED
Sheet 13	336	187447	C13S	4	2404	LORING ST	1248B4	8644	NOT TO BE TELEVISED OR LINED
Sheet 14	337	313937	C13S	4	2058	BERYL ST	1248A4	8894	
Sheet 14	338	189765	C13S	4	2068	BERYL ST	1248A4	8894	
Sheet 14	339	313949	C13S	4	2048	BERYL ST	1248A4	8895	
Sheet 14	340	189910	C13S	4	2038	BERYL ST	1248A4	8895	
Sheet 14	341	189147	C13S	4	4957	ACADEMY ST	1248A4	8897	
Sheet 14	342	189259	C13S	4	4951	ACADEMY ST	1248A4	8897	
Sheet 14	343	189388	C13S	4	2073	WILBUR AV	1248A4	8897	
Sheet 14	344	188825	C13S	4	4991	ACADEMY ST	1248A4	8900	
Sheet 14	345	188873	C13S	4	4997	ACADEMY ST	1248A4	8900	
Sheet 14	346	188896	C13S	4	4998	ACADEMY ST	1248A4	8900	
Sheet 14	347	189009	C13S	4	4986	ACADEMY ST	1248A4	8900	
Sheet 14	348	188973	C13S	4	4992	ACADEMY ST	1248A4	8900	
Sheet 14	349	188983	C13S	4	4980	ACADEMY ST	1248A4	8900	
Sheet 14	350	188790	C13S	4	4985	ACADEMY ST	1248A4	8900	
Sheet 14	351	313153	C13S	4	4979	ACADEMY ST	1248A4	8901	
Sheet 14	352	313177	C13S	4	4973	ACADEMY ST	1248A4	8901	
Sheet 14	353	313223	C13S	4	4969	ACADEMY ST	1248A4	8901	
Sheet 14	354	188855	C13S	4	4970	ACADEMY ST	1248A4	8901	
Sheet 14	355	189054	C13S	4	4960	ACADEMY ST	1248A4	8902	
Sheet 14	356	313347	C13S	4	4961	ACADEMY ST	1248A4	8902	
Sheet 14	357	188914	C13S	4	4965	ACADEMY ST	1248A4	8902	
Sheet 14	358	188904	C13S	4	4970	ACADEMY ST	1248A4	8902	
Sheet 14	359	189330	C13S	4	2040	WILBUR AV	1248A4	8903	
Sheet 14	360	189509	C13S	4	2025	WILBUR AV	1248A4	8903	
Sheet 14	361	189338	C13S	4	2030	WILBUR AV	1248A4	8903	
Sheet 14	362	189487	C13S	4	2041	WILBUR AV	1248A4	8903	
Sheet 14	363	189471	C13S	4	2061	WILBUR AV	1248A4	8903	
Sheet 14	364	313554	C13S	4	2060	WILBUR AV	1248A4	8903	
Sheet 14	365	189320	C13S	4	2050	WILBUR AV	1248A4	8903	
Sheet 14	366	189494	C13S	4	2033	WILBUR AV	1248A4	8903	
Sheet 14	367	189478	C13S	4	2053	WILBUR AV	1248A4	8903	

**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 14	368	313590	C13S	4	2002	WILBUR AV	1248A4	8904	
Sheet 14	369	313703	C13S	4	2017	WILBUR AV	1248A4	8904	
Sheet 14	370	313577	C13S	4	2020	WILBUR AV	1248A4	8904	
Sheet 14	371	189535	C13S	4	2009	WILBUR AV	1248A4	8904	
Sheet 14	372	313584	C13S	4	2016	WILBUR AV	1248A4	8904	
Sheet 14	373	189364	C13S	4	2008	WILBUR AV	1248A4	8904	
Sheet 14	374	189359	C13S	4	2008	WILBUR AV	1248A4	8904	
Sheet 14	375	189553	C13S	4	2001	WILBUR AV	1248A4	8904	
Sheet 15	376	189506	C13S	4	2150	BERYL ST	1248B4	8681	
Sheet 15	377	5640661	C13S	4	4804	DONALDSON DR	1248B4	8694	NOT TO BE TELEVISED OR LINED
Sheet 15	378	5640650	C13S	4	4815	DONALDSON DR	1248B4	8694	NOT TO BE TELEVISED OR LINED
Sheet 15	379	5640660	C13S	4		DONALDSON DR	1248B4	8694	NOT TO BE TELEVISED OR LINED
Sheet 15	380	5640646	C13S	4	4836	DONALDSON DR	1248B4	8695	NOT TO BE TELEVISED OR LINED
Sheet 15	381	5640647	C13S	4	4839	DONALDSON DR	1248B4	8695	NOT TO BE TELEVISED OR LINED
Sheet 15	382		C13S	4	4827	DONALDSON DR	1248B4	8695	NOT TO BE TELEVISED OR LINED
Sheet 15	383	5640649	C13S	4	4818	DONALDSON DR	1248B4	8695	NOT TO BE TELEVISED OR LINED
Sheet 15	384	5640638	C13S	4	4884	DONALDSON DR	1248B4	8696	NOT TO BE TELEVISED OR LINED
Sheet 15	385	5640639	C13S	4	4875	DONALDSON DR	1248B4	8696	NOT TO BE TELEVISED OR LINED
Sheet 15	386	5640640	C13S	4	4874	DONALDSON DR	1248B4	8696	NOT TO BE TELEVISED OR LINED
Sheet 15	387	5640641	C13S	4	4864	DONALDSON DR	1248B4	8696	NOT TO BE TELEVISED OR LINED
Sheet 15	388	5640642	C13S	4	4863	DONALDSON DR	1248B4	8696	NOT TO BE TELEVISED OR LINED
Sheet 15	389	5640643	C13S	4	4851	DONALDSON DR	1248B4	8696	NOT TO BE TELEVISED OR LINED
Sheet 15	390	5640644	C13S	4	4850	DONALDSON DR	1248B4	8696	NOT TO BE TELEVISED OR LINED
Sheet 15	391	5640637	C13S	4	4891	DONALDSON DR	1248B4	8697	NOT TO BE TELEVISED OR LINED
Sheet 15	392	5640636	C13S	4	4894	DONALDSON DR	1248B4	8697	NOT TO BE TELEVISED OR LINED
Sheet 15	393	314297	C13S	4	2306	CHALCEDONY ST	1248B4	6269632	
Sheet 16	394	188508	C13S	4	2539	ASTER ST	1248C4	8747	
Sheet 16	395	188459	C13S	4	2538	ASTER ST	1248C4	8747	
Sheet 16	396	312957	C13S	4	2514	ASTER ST	1248B4	8747	
Sheet 16	397	313019	C13S	4	2527	ASTER ST	1248C4	8747	
Sheet 16	398	188458	C13S	4	2550	ASTER ST	1248C4	8747	
Sheet 16	399	188604	C13S	4	2503	ASTER ST	1248B4	8747	
Sheet 16	400	313028	C13S	4	2515	ASTER ST	1248C4	8747	
Sheet 16	401	188469	C13S	4	2526	ASTER ST	1248C4	8747	
Sheet 16	402	312965	C13S	4	4911	SAN JOAQUIN DR	1248B4	8747	
Sheet 16	403	312500	C13S	4	4974	SAN JOAQUIN DR	1248B4	8752	
Sheet 16	404	188824	C13S	4	2437	ASTER ST	1248B4	8776	
Sheet 16	405	188852	C13S	4	2447	ASTER ST	1248B4	8776	
Sheet 17	404	221450	G18S	4	4250	04TH AVE	1269A4	28067	
Sheet 17	405	5640467	G18S	4	4244	05TH AVE	1269A4	28069	
Sheet 17	406	5640466	G18S	4	4244	05TH AVE	1269A4	28069	
Sheet 17	407	5640667	G18S	4	4244	06TH AVE	1269A4	28160	
Sheet 17	408	5460678	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	409	5640680	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	410	5640681	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	411	5640684	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	412	5640686	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	413	5640685	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	414	5640683	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	415	5640682	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	416	5640687	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	417	5640679	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 17	418	5640668	G18S	4	4244	06TH AVE	1269A4	28162	
Sheet 18	419	377136	H18S	4	4145	ARIZONA ST	1269D5	33503	
Sheet 18	420	337983	H18S	4	4109	ARIZONA ST	1269D5	33503	
Sheet 18	421	224320	H18S	4	4119	ARIZONA ST	1269D5	33503	
Sheet 18	422	337659	H18S	4	4134	ARIZONA ST	1269D5	33503	
Sheet 18	423	224345	H18S	4	4109	ARIZONA ST	1269D5	33503	
Sheet 18	424	224020	H18S	4	4135	ARIZONA ST	1269D5	33503	
Sheet 18	425	224054	H18S	4	4127	ARIZONA ST	1269D5	33503	
Sheet 18	426	5640676	H18S	4	2504	POLK AV	1269D5	33503	
Sheet 18	427	5640676	H18S	4	5212	POLK AV	1269D5	33503	
Sheet 18	428	338327	H18S	6	2435	POLK AV	1269D5	33506	
Sheet 18	429	337317	H18S	4	4160	HAMILTON ST	1269D5	33549	
Sheet 18	430	223085	H18S	4	4186	HAMILTON ST	1269D5	33549	
Sheet 18	431	337231	H18S	4	4168	HAMILTON ST	1269D5	33549	
Sheet 18	432	223265	H18S	4	4174	HAMILTON ST	1269D5	33549	
Sheet 18	433	223706	H18S	4	4146	HAMILTON ST	1269D5	33549	
Sheet 18	434	5640625	H18S	4	2519	HOWARD AV	1269D5	33549	
Sheet 18	435	222982	H18S	4	2519	HOWARD AV	1269D5	33549	
Sheet 18	436	336978	H18S	4	2535	HOWARD AV	1269D5	33549	
Sheet 18	437	223691	H18S	4	4151	ARIZONA ST	1269D5	33550	
Sheet 18	438	5640666	H18S	4	4151	ARIZONA ST	1269D5	33550	

**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 18	439	337374	H18S	4	4161	ARIZONA ST	1269D5	33550	
Sheet 18	440	377126	H18S	4	4167	ARIZONA ST	1269D5	33550	
Sheet 18	441	337125	H18S	4	4177	ARIZONA ST	1269D5	33550	
Sheet 18	442	223104	H18S	4	4185	ARIZONA ST	1269D5	33550	
Sheet 18	443	336909	H18S	4	2505	HOWARD AV	1269D5	33550	
Sheet 18	444	224515	H18S	4	4109	ARIZONA ST	1269D5	33556	
Sheet 18	445	337579	H18S	4	4146	HAMILTON ST	1269D5	33556	
Sheet 18	446	337643	H18S	4	4130	HAMILTON ST	1269D5	33556	
Sheet 18	447	337913	H18S	4	4110	HAMILTON ST	1269D5	33556	
Sheet 18	448	224242	H18S	4	4118	HAMILTON ST	1269D5	33556	
Sheet 18	449	337528	H18S	4	4146	HAMILTON ST	1269D5	33556	
Sheet 18	450	224081	H18S	4	4130	HAMILTON ST	1269D5	33556	
Sheet 18	451	224583	H18S	4	2530	POLK AV	1269D5	33556	
Sheet 18	452	224558	H18S	4	2540	POLK AV	1269D5	33556	
Sheet 18	453	222452	H18S	4	4218	HAMILTON ST	1269D4	33564	
Sheet 18	454	222383	H18S	4	4220	HAMILTON ST	1269D4	33564	
Sheet 18	455	5640465	H18S	4	4222	HAMILTON ST	1269D4	33564	
Sheet 18	456	336739	H18S	4	4212	HAMILTON ST	1269D4	33564	
Sheet 18	457	222681	H18S	4	4206	HAMILTON ST	1269D4	33564	
Sheet 18	458	336762	H18S	4	2534	HOWARD AV	1269D4	33564	
Sheet 18	459	222462	H18S	4	4209	ARIZONA ST	1269D4	33566	
Sheet 18	460	222299	H18S	4	4209	ARIZONA ST	1269D4	33566	
Sheet 18	461	5640674	H18S	4	4220	ARIZONA ST	1269D4	33566	
Sheet 18	462	222558	H18S	4	2510	HOWARD AV	1269D4	33566	
Sheet 19	463	215509	H17S	4	4726	30TH ST	1269E3	33282	
Sheet 19	464	215534	H17S	4	4724	30TH ST	1269E3	33282	
Sheet 19	465	215471	H17S	4	4726	30TH ST	1269E3	33282	
Sheet 19	466	332487	H17S	4	2922	ADAMS AV	1269E3	33282	
Sheet 19	467	376771	H17S	4	2934	ADAMS AV	1269E3	33282	
Sheet 19	468	376775	H17S	4	2912	ADAMS AV	1269E3	33282	
Sheet 19	469	215588	H17S	4	4719	KANSAS ST	1269E3	33282	
Sheet 19	470	215564	H17S	4	4719	KANSAS ST	1269E3	33282	
Sheet 19	471	332351	H17S	4	4727	KANSAS ST	1269E3	33282	
Sheet 19	472	332384	H17S	4	4719	KANSAS ST	1269E3	33282	
Sheet 19	473	215369	H17S	4	2911	SUNCREST DR	1269E3	33282	
Sheet 19	474	332307	H17S	4	2933	SUNCREST DR	1269E3	33282	
Sheet 19	475	332733	H18S	4	4674	30TH ST	1269E3	33361	
Sheet 19	476	216271	H18S	4	4658	30TH ST	1269E3	33361	
Sheet 19	477	216324	H18S	4	4652	30TH ST	1269E3	33361	
Sheet 19	478	216331	H18S	4	4652	30TH ST	1269E3	33361	
Sheet 19	479	216371	H18S	4	4652	30TH ST	1269E3	33361	
Sheet 19	480	216149	H18S	4	4668	30TH ST	1269E3	33361	
Sheet 19	481	332667	H18S	6	2911	ADAMS AV	1269E3	33361	
Sheet 19	482	215996	H18S	6	2933	ADAMS AV	1269E3	33361	
Sheet 19	483	332648	H18S	4	2933	ADAMS AV	1269E3	33361	
Sheet 19	484	332933	H18S	4	4651	KANSAS ST	1269E3	33361	
Sheet 19	485	332926	H18S	4	4651	KANSAS ST	1269E3	33361	
Sheet 19	486	332809	H18S	4	4663	KANSAS ST	1269E3	33361	
Sheet 19	487	216081	H18S	4	4679	KANSAS ST	1269E3	33361	
Sheet 19	488	215945	H17S	4	4681	KANSAS ST	1269E3	33361	
Sheet 19	489	332963	H18S	4	4651	KANSAS ST	1269E3	33361	
Sheet 19	490	332765	H18S	4	4663	KANSAS ST	1269E3	33361	
Sheet 19	491	216664	H18S	4	4626	30TH ST	1269E3	33362	
Sheet 19	492	216732	H18S	4	4618	30TH ST	1269E3	33362	
Sheet 19	493	216570	H18S	4	4634	30TH ST	1269E3	33362	
Sheet 19	494	216706	H18S	4	4618	30TH ST	1269E3	33362	
Sheet 19	495	216492	H18S	4	4640	30TH ST	1269E3	33362	
Sheet 19	496	333078	H18S	4	4631	KANSAS ST	1269E3	33362	
Sheet 19	497	333123	H18S	4	4625	KANSAS ST	1269E3	33362	
Sheet 19	498	333202	H18S	4	4617	KANSAS ST	1269E3	33362	
Sheet 19	499	332862	H18S	4	4653	KANSAS ST	1269E3	33362	
Sheet 19	500	332994	H18S	4	4637	KANSAS ST	1269E3	33362	
Sheet 19	501	333206	H18S	4	2932	MADISON AV	1269E3	33362	
Sheet 19	502	216883	H18S	4	2932	MADISON AV	1269E3	33362	
Sheet 19	503	333229	H18S	4	2922	MADISON AV	1269E3	33362	
Sheet 19	504	333245	H18S	4	2922	MADISON AV	1269E3	33362	
Sheet 20	505	5638384	H18S	4	4638	IOWA ST	n	33409	
Sheet 20	506	215896	H17S	4	3131	ADAMS AV	1269E3	33413	
Sheet 20	507	5638403	H18S	4	4680	IOWA ST	1269E3	33413	
Sheet 20	508	5638402	H18S	4	4680	IOWA ST	1269E3	33413	
Sheet 20	509	5638388	H18S	4	4658	IOWA ST	1269E3	33413	
Sheet 20	510	5638391	H18S	4	4672	IOWA ST	1269E3	33413	
Sheet 20	511	5638401	H18S	4	4666	IOWA ST	1269E3	33413	
Sheet 20	512	5638389	H18S	4	4660	IOWA ST	1269E3	33413	
Sheet 20	513	5638387	H18S	4	4654	IOWA ST	1269E3	33413	



**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 20	514	5638386	H18S	4	4648	IOWA ST	1269E3	33413	
Sheet 20	515	5638385	H18S	4	4642	IOWA ST	1269E3	33413	
Sheet 21	516	5640677	H17S	4	4966	WEST MTN VIEW DR	1269E3	33230	
Sheet 21	517	5640732	H17S	4	4965	WEST MTN VIEW DR	1269E3	33230	
Sheet 21	518	5640733	H17S	4	4961	WEST MTN VIEW DR	1269E3	33230	
Sheet 21	519	5459959	H17S	4	4946	WEST MTN VIEW DR	1269E3	33230	
Sheet 21	520	212885	H17S	4	4956	WEST MTN VIEW DR	1269E3	33230	
Sheet 21	521	212883	H17S	4	4966	WEST MTN VIEW DR	1269E3	33230	
Sheet 21	522	330725	H17S	4	4946	WEST MTN VIEW DR	1269E3	33339	
Sheet 21	523	330728	H17S	4	4946	WEST MTN VIEW DR	1269E3	33339	
Sheet 21	524	212961	I17S	4	4922	WEST MTN VIEW DR	1269E3	33339	
Sheet 21	525	212846	I17S	4	4943	WEST MTN VIEW DR	1269E2	33339	
Sheet 21	526	330696	H17S	4	4957	WEST MTN VIEW DR	1269E2	33339	
Sheet 21	527	212940	H17S	4	4922	WEST MTN VIEW DR	1269E3	33339	
Sheet 21	528	330722	I17S	4	4939	WEST MTN VIEW DR	1269E2	33339	
Sheet 21	529	330735	I17S	4	4933	WEST MTN VIEW DR	1269000	37926	
Sheet 21	530	212983	I17S	4	4921	WEST MTN VIEW DR	1269E3	37926	
Sheet 21	531	212915	I17S	4	4927	WEST MTN VIEW DR	1269E3	37926	
Sheet 21	532	213015	I17S	4	4920	WEST MTN VIEW DR	1269E3	37926	
Sheet 21	533	213043	I17S	4	4911	WEST MTN VIEW DR	1269E3	37927	
Sheet 21	534	213094	I17S	4	4912	WEST MTN VIEW DR	1269E3	37927	
Sheet 21	535	213185	I17S	4	4906	WEST MTN VIEW DR	1269E3	37927	
Sheet 21	536	5640669	I17S	4	4911	WEST MTN VIEW DR	1269E3	37927	
Sheet 21	537	5640670	I17S	4	4905	WEST MTN VIEW DR	1269E3	37927	
Sheet 21	538	5630442	I17S	4	4890	BANCROFT ST	1269E3	37946	
Sheet 21	539	331022	I17S	6	3216	COPLEY AV	1269E3	37946	
Sheet 21	540	5630491	I17S	4	3233	COPLEY AV	1269E3	37946	
Sheet 21	541	331026	I17S	6	3236	COPLEY AV	1269E3	37946	
Sheet 21	542	331028	I17S	4	3252	COPLEY AV	1269E3	37946	
Sheet 21	543	213320	I17S	6	3228	COPLEY AV	1269E3	37946	
Sheet 21	544	213316	I17S	6	4901	WEST MTN VIEW DR	1269E3	37946	
Sheet 22	545	5640691	H17S	4	3108	COLLIER AV	1269E3	33308	
Sheet 22	546	331643	H17S	4	4796	WEST MTN VIEW DR	1269E3	33308	
Sheet 22	547	331610	H17S	4	4814	WEST MTN VIEW DR	1269E3	33308	
Sheet 22	548	214107	H17S	8	4824	WEST MTN VIEW DR	1269E3	33308	
Sheet 22	549	331548	H17S	4	4816	WEST MTN VIEW DR	1269E3	33308	
Sheet 22	550	5640692	H17S	4	4793	WEST MTN VIEW DR	1269E3	33308	
Sheet 22	551	214165	I17S	4	4819	WEST MTN VIEW DR	1269E3	33308	
Sheet 22	552	214187	I17S	4	4819	WEST MTN VIEW DR	1269E3	33308	
Sheet 22	553	331519	I17S	4	3128	COLLIER AV	1269E3	33309	
Sheet 22	554	214212	I17S	4	3128	COLLIER AV	1269E3	33309	
Sheet 22	555	331486	I17S	4	4829	WEST MTN VIEW DR	1269E3	33309	
Sheet 22	556	214056	I17S	4	4841	WEST MTN VIEW DR	1269E3	33309	
Sheet 22	557	214067	I17S	4	4841	WEST MTN VIEW DR	1269E3	33309	
Sheet 22	558	214060	I17S	4	4841	WEST MTN VIEW DR	1269E3	33309	
Sheet 22	559	213931	H17S	4	4840	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	560	213835	I17S	4	4846	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	561	213757	I17S	4	4858	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	562	331377	I17S	4	4841	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	563	213877	I17S	4	4847	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	564	214027	H17S	4	4828	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	565	331293	I17S	4	4852	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	566	331421	H17S	4	4834	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	567	213795	I17S	4	4853	WEST MTN VIEW DR	1269E3	33310	
Sheet 22	568	331264	I17S	4	4859	WEST MTN VIEW DR	1269E3	37928	
Sheet 22	569	331113	I17S	4	4877	WEST MTN VIEW DR	1269E3	37928	
Sheet 22	570	213344	I17S	4		WEST MTN VIEW DR	1269E3	37928	
Sheet 22	571	213545	I17S	4	4870	WEST MTN VIEW DR	1269E3	37928	
Sheet 22	572	331173	I17S	4	4871	WEST MTN VIEW DR	1269E3	37928	
Sheet 22	573	213645	I17S	4	4862	WEST MTN VIEW DR	1269E3	37928	
Sheet 22	574	213387	I17S	4	4886	WEST MTN VIEW DR	1269E3	37928	
Sheet 22	575	214163	I17S	4	3144	COLLIER AV	1269E3	37943	
Sheet 22	576	214174	I17S	4	3222	COLLIER AV	1269E3	37943	
Sheet 22	577	331522	I17S	4	3204	COLLIER AV	1269E3	37943	
Sheet 22	578	331521	I17S	4	3136	COLLIER AV	1269E3	37943	
Sheet 22	579	331524	I17S	4	3204	COLLIER AV	1269E3	37943	
Sheet 22	580	331526	I17S	4	3212	COLLIER AV	1269E3	37943	
Sheet 22	581	213798	I17S	4	4850	BANCROFT ST	1269E3	37944	Plugged lateral
Sheet 22	582	213710	I17S	4	4856	BANCROFT ST	1269E3	37944	
Sheet 22	583	331376	I17S	4	4838	BANCROFT ST	1269E3	37944	
Sheet 22	584	331321	I17S	4	4847	WEST MTN VIEW DR	1269E3	37944	
Sheet 22	585	213834	I17S	4	4844	BANCROFT ST	1269E3	37944	
Sheet 23	586	214436	I17S	4	3301	COLLIER AV	1269F3	37965	

**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 23	587	5640665	I17S	4	3301	COLLIER AV	1269F3	37965	
Sheet 23	588	331693	I17S	4	3305	COLLIER AV	1269F3	37965	
Sheet 23	589	331696	I17S	4	3305	COLLIER AV	1269F3	37965	
Sheet 23	590	213463	I17S	4	3327	COPLEY AV	1269F3	37970	
Sheet 23	591	331134	I17S	4	4884	FELTON ST	1269F3	37970	
Sheet 23	592	331107	I17S	4	3303	COPLEY AV	1269F3	37970	
Sheet 23	593	213629	I17S	4	4865	33RD ST	1269F3	37970	
Sheet 23	594	213493	I17S	4	4881	33RD ST	1269F3	37970	
Sheet 23	595	331271	I17S	4	4861	33RD ST	1269F3	37970	
Sheet 23	596	213780	I17S	4	4856	FELTON ST	1269F3	37970	
Sheet 23	597	213574	I17S	4	4874	FELTON ST	1269F3	37970	
Sheet 23	598	213826	I17S	4	4853	33RD ST	1269F3	37970	
Sheet 23	599	213572	I17S	4	4875	33RD ST	1269F3	37970	
Sheet 23	600	331219	I17S	4	4866	FELTON ST	1269F3	37970	
Sheet 23	601	331268	I17S	4	4860	FELTON ST	1269F3	37970	
Sheet 23	602	214049	I17S	4	4827	33RD ST	1269F3	37971	
Sheet 23	603	331547	I17S	4	4811	33RD ST	1269F3	37971	
Sheet 23	604	331346	I17S	4	4843	33RD ST	1269F3	37971	
Sheet 23	605	214308	I17S	4	4801	33RD ST	1269F3	37971	
Sheet 23	606	214336	I17S	4	4802	FELTON ST	1269F3	37971	
Sheet 23	607	331543	I17S	4	4812	FELTON ST	1269F3	37971	
Sheet 23	608	331454	I17S	4	4828	FELTON ST	1269F3	37971	
Sheet 23	609	331357	I17S	4	4844	FELTON ST	1269F3	37971	
Sheet 23	610	331485	I17S	4	4818	FELTON ST	1269F3	37971	
Sheet 23	611	213953	I17S	4	4836	FELTON ST	1269F3	37971	
Sheet 23	612	214126	I17S	4	4817	33RD ST	1269F3	37971	
Sheet 23	613	213928	I17S	4	4835	33RD ST	1269F3	37971	
Sheet 23	614	214305	I17S	4	3314	COLLIER AV	1269F3	37971	
Sheet 23	615	332029	I17S	4	4745	FELTON ST	1269F3	37977	
Sheet 23	616	5640463	I17S	4	4745	FELTON ST	1269F3	37977	
Sheet 23	617	214634	I17S	4	4772	34TH ST	1269F3	37979	
Sheet 23	618	214674	I17S	4	4764	34TH ST	1269F3	37979	
Sheet 23	619	214594	I17S	4	4778	34TH ST	1269F3	37979	
Sheet 23	620	214756	I17S	4	4758	34TH ST	1269F3	37979	
Sheet 23	621	214846	I17S	4	4752	34TH ST	1269F3	37979	
Sheet 23	622	331801	I17S	4	4771	FELTON ST	1269F3	37979	
Sheet 23	623	331917	I17S	4	4755	FELTON ST	1269F3	37979	
Sheet 23	624	331842	I17S	4	4763	FELTON ST	1269F3	37979	
Sheet 23	625	214578	I17S	4	3377	COLLIER AV	1269F3	37979	
Sheet 23	626	331871	I17S	4	4761	FELTON ST	1269F3	37979	
Sheet 23	627	214202	I17S	4	4812	34TH ST	1269F3	37980	
Sheet 23	628	214320	I17S	4	4804	34TH ST	1269F3	37980	
Sheet 23	629	214228	I17S	4	3370	COLLIER AV	1269F3	37980	
Sheet 23	630	331604	I17S	4	3370	COLLIER AV	1269F3	37980	
Sheet 23	631	331516	I17S	4	4817	FELTON ST	1269F3	37980	
Sheet 23	632	214485	I17S	4	3377	COLLIER AV	1269F3	37980	
Sheet 23	633	376722	I17S	4	3359	COLLIER AV	1269F3	37980	
Sheet 23	634	213414	I17S	4	3367	COPLEY AV	1269F3	37982	
Sheet 23	635	331122	I17S	4	3367	COPLEY AV	1269F3	37982	
Sheet 23	636	213653	I17S	4	4870	34TH ST	1269F3	37982	
Sheet 23	637	213505	I17S	4	4884	34TH ST	1269F3	37982	
Sheet 23	638	213569	I17S	4	4876	34TH ST	1269F3	37982	
Sheet 23	639	213598	I17S	4	4875	FELTON ST	1269F3	37982	
Sheet 23	640	213698	I17S	4	4857	FELTON ST	1269F3	37982	
Sheet 23	641	331117	I17S	4	3375	COPLEY AV	1269F3	37982	
Sheet 23	642	213409	I17S	4	4894	COPLEY AV	1269F3	37982	
Sheet 23	643	331223	I17S	4	4865	FELTON ST	1269F3	37982	
Sheet 24	644	214975	I17S	4	4743	HAWLEY BL	1269F3	38005	
Sheet 24	645	214505	I17S	4	3451	COLLIER AV	1269F3	38006	
Sheet 24	646	214518	I17S	4	3451	COLLIER AV	1269F3	38006	
Sheet 24	647	331892	I17S	6	4759	HAWLEY BL	1269F3	38006	
Sheet 24	648	214689	I17S	4	4763	HAWLEY BL	1269F3	38006	
Sheet 24	649	331724	I17S	4	4787	HAWLEY BL	1269F3	38006	
Sheet 24	650	214550	I17S	4	4783	HAWLEY BL	1269F3	38006	
Sheet 24	651	214616	I17S	4	4769	HAWLEY BL	1269F3	38006	
Sheet 24	652	214863	I17S	4	4745	HAWLEY BL	1269F3	38006	
Sheet 24	653	214631	I17S	4	4768	MANSFIELD ST	1269F3	38006	
Sheet 24	654	331740	I17S	4	4774	MANSFIELD ST	1269F3	38006	
Sheet 24	655	214759	I17S	4	4758	MANSFIELD ST	1269F3	38006	
Sheet 24	656	214858	I17S	4	4748	MANSFIELD ST	1269F3	38006	
Sheet 24	657	331843	I17S	4	4760	MANSFIELD ST	1269F3	38006	
Sheet 24	658	214328	I17S	4	3442	COLLIER AV	1269F3	38007	
Sheet 24	659	331632	I17S	4	3462	COLLIER AV	1269F3	38007	
Sheet 24	660	331607	I17S	4	3442	COLLIER AV	1269F3	38007	
Sheet 24	661	331451	I17S	4	4825	HAWLEY BL	1269F3	38007	

**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 24	662	214227	I17S	4	4809	HAWLEY BL	1269F3	38007	
Sheet 24	663	213976	I17S	4	4835	HAWLEY BL	1269F3	38007	
Sheet 24	664	214160	I17S	4	4817	HAWLEY BL	1269F3	38007	
Sheet 24	665	331427	I17S	4	4836	MANSFIELD ST	1269F3	38007	
Sheet 24	666	331531	I17S	4	4820	MANSFIELD ST	1269F3	38007	
Sheet 24	667	331471	I17S	4	4822	MANSFIELD ST	1269F3	38007	
Sheet 24	668	214267	I17S	4	4810	MANSFIELD ST	1269F3	38007	
Sheet 24	669	213486	I17S	4	3451	COPLEY AV	1269F3	38008	
Sheet 24	670	331120	I17S	4	3447	COPLEY AV	1269F3	38008	
Sheet 24	671	213590	I17S	4	4875	HAWLEY BL	1269F3	38008	
Sheet 24	672	213511	I17S	4	4881	HAWLEY BL	1269F3	38008	
Sheet 24	673	213859	I17S	4	4847	HAWLEY BL	1269F3	38008	
Sheet 24	674	331282	I17S	4	4859	HAWLEY BL	1269F3	38008	
Sheet 24	675	331232	I17S	4	4867	HAWLEY BL	1269F3	38008	
Sheet 24	676	213922	I17S	4	4843	HAWLEY BL	1269F3	38008	
Sheet 24	677	331239	I17S	4	4866	MANSFIELD ST	1269F3	38008	
Sheet 24	678	213896	I17S	4	4842	MANSFIELD ST	1269F3	38008	
Sheet 24	679	331267	I17S	4	4862	MANSFIELD ST	1269F3	38008	
Sheet 24	680	213492	I17S	4	4886	MANSFIELD ST	1269F3	38008	
Sheet 24	681	331311	I17S	4	4852	MANSFIELD ST	1269F3	38008	
Sheet 24	682	331187	I17S	4	4876	MANSFIELD ST	1269F3	38008	
Sheet 25	683	215881	I17S	4	4674	33RD ST	1269F3	37957	
Sheet 25	684	332555	I17S	4	3285	ADAMS AV	1269F3	37957	
Sheet 25	685	215840	I17S	4	3275	ADAMS AV	1269F3	37957	
Sheet 26	686	5640629	I17S	4	3562	SYDNEY PL	1269G2	37744	
Sheet 26	687	5640627	I17S	4	3536	SYDNEY PL	1269G2	37744	
Sheet 26	688	5640628	I17S	4	3554	SYDNEY PL	1269G2	37744	
Sheet 26	689	211891	I17S	4	3541	SYDNEY PL	1269F2	37744	
Sheet 26	690	211904	I17S	4	3567	SYDNEY PL	1269G2	37745	
Sheet 26	691	211874	I17S	4	3575	SYDNEY PL	1269G2	37745	
Sheet 26	692	211899	I17S	4	3575	SYDNEY PL	1269G2	37745	
Sheet 26	693	330112	I17S	4	3574	SYDNEY PL	1269G2	37745	
Sheet 26	694	330106	I17S	4	3588	SYDNEY PL	1269G2	37745	
Sheet 26	695	330105	I17S	4	3596	SYDNEY PL	1269G2	37745	
Sheet 26	696	330108	I17S	4	3582	SYDNEY PL	1269G2	37745	
Sheet 26	697	212010	I17S	4	5033	RAYMOND PL	1269G2	37746	
Sheet 26	698	212196	I17S	4	5007	RAYMOND PL	1269G2	37746	
Sheet 26	699	211940	I17S	4	5047	RAYMOND PL	1269G2	37746	
Sheet 26	700	212165	I17S	4	5020	RAYMOND PL	1269F2	37746	
Sheet 26	701	212068	I17S	4	5029	RAYMOND PL	1269G2	37746	
Sheet 26	702	211949	I17S	4	5040	RAYMOND PL	1269F2	37746	
Sheet 26	703	212030	I17S	4	5030	RAYMOND PL	1269F2	37746	
Sheet 26	704	330144	I17S	4	3561	SYDNEY PL	1269G2	37746	
Sheet 26	705	330161	I17S	4	3547	SYDNEY PL	1269F2	37746	
Sheet 26	706	212500	I17S	6	3627	EUGENE PL	1269G2	37749	
Sheet 26	707	330467	I17S	4	3612	EUGENE PL	1269G2	37749	
Sheet 26	708	376658	I17S	6	3615	EUGENE PL	1269F2	37749	
Sheet 26	709	330440	I17S	4	5001	RAYMOND PL	1269G2	37749	
Sheet 26	710	212478	I17S	4	3628	EUGENE PL	1269G2	37752	
Sheet 26	711	5640630	I17S	4	3624	EUGENE PL	1269G2	37752	
Sheet 26	712	5640632	I17S	4	3650	EUGENE PL	1269G2	37752	
Sheet 26	713	5640631	I17S	4	3650	EUGENE PL	1269G2	37752	
Sheet 26	714	212542	I17S	4	3646	EUGENE PL	1269G2	37752	
Sheet 26	715	376661	I17S	6	3639	EUGENE PL	1269G2	37752	
Sheet 26	716	376660	I17S	6	3636	EUGENE PL	1269G2	37752	
Sheet 27	717	246878	F21S	4	2200	PACIFIC HWY	1288J1	24379	
Sheet 27	718	246895	F21S	4	2200	PACIFIC HWY	1288J1	24602	
Sheet 27	719	246969	F21S	4	2200	PACIFIC HWY	1288J1	24602	
Sheet 28	720	5640735	G22S	8	901	07TH AV	1289B3	29366	
Sheet 28	721	280489	G22S	8	935	07TH AV	1289B3	5575495	
Sheet 29	722	355257	G21S	4	1449	09TH AV	1289B2	29117	
Sheet 29	723	250153	G21S	4	1441	09TH AV	1289B2	29117	
Sheet 29	724	375846	G21S	4	1333	09TH AV	1289B2	29118	
Sheet 29	725	375845	G21S	4	1333	09TH AV	1289B2	29118	
Sheet 30	726	248104	I21S	4	1801	FELTON ST	1289F2	39312	
Sheet 30	727	353820	I21S	4	1819	FELTON ST	1289F1	39312	
Sheet 30	728	353897	I21S	4	1807	FELTON ST	1289F1	39312	
Sheet 30	729	247993	I21S	4	1813	FELTON ST	1289F1	39312	
Sheet 30	730	247875	I21S	4	1825	FELTON ST	1289F1	39312	
Sheet 30	731	353965	I21S	4	1802	FELTON ST	1289F2	39312	
Sheet 30	732	247970	I21S	4	1820	FELTON ST	1289F1	39312	



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Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 30	733	353918	I21S	4	1808	FELTON ST	1289F2	39312	
Sheet 30	734	353968	I21S	4	1801	GREGORY ST	1289F2	39318	
Sheet 30	735	353826	I21S	4	1819	GREGORY ST	1289F1	39318	
Sheet 30	736	353879	I21S	4	1813	GREGORY ST	1289F1	39318	
Sheet 30	737	353901	I21S	4	1807	GREGORY ST	1289F1	39318	
Sheet 30	738	248035	I21S	4	1808	GREGORY ST	1289F1	39318	
Sheet 30	739	247999	I21S	4	1814	GREGORY ST	1289F1	39318	
Sheet 30	740	247917	I21S	4	1820	GREGORY ST	1289F1	39318	
Sheet 30	741	353799	I21S	4	1825	GREGORY ST	1289F1	39318	
Sheet 30	742	248114	I21S	4	1802	GREGORY ST	1289F2	39318	
Sheet 30	743	247879	I21S	4	1826	GREGORY ST	1289F1	39318	
Sheet 30	744	247744	I21S	4	1832	FELTON ST	1289F1	39424	
Sheet 30	745	353704	I21S	4	1837	FELTON ST	1289F1	39424	
Sheet 30	746	353636	I21S	4	1844	FELTON ST	1289F1	39424	
Sheet 30	747	353731	I21S	4	1831	FELTON ST	1289F1	39424	
Sheet 30	748	247648	I21S	4	1843	FELTON ST	1289F1	39424	
Sheet 31	749	247591	I21S	4	1911	PETRA DR	1289F1	39197	
Sheet 31	750	247505	I21S	4	1921	PETRA DR	1289F1	39197	
Sheet 31	751	247625	I21S	4	3430	FIR ST	1289F1	39328	
Sheet 31	752	247747	I21S	4	3451	FIR ST	1289F1	39328	
Sheet 31	753	247764	I21S	4	3441	FIR ST	1289F1	39328	
Sheet 31	754	247627	I21S	4	3450	FIR ST	1289F1	39328	
Sheet 31	755	247725	I21S	4	3431	FIR ST	1289F1	39328	
Sheet 31	756	353622	I21S	4	3420	FIR ST	1289F1	39328	
Sheet 31	757	353624	I21S	4	3440	FIR ST	1289F1	39328	
Sheet 31	758	247622	I21S	4	3410	FIR ST	1289F1	39335	
Sheet 31	759	247733	I21S	4	1862	FRIEDRICK DR	1289F1	39335	
Sheet 31	760	353312	I21S	4	3412	PETRA PL	1289F1	39392	
Sheet 31	761	5640663	I21S	4	3401	PETRA PL	1289F1	39392	
Sheet 31	762	353507	I21S	4	3439	PETRA PL	1289F1	39401	
Sheet 31	763	353446	I21S	4	3411	PETRA PL	1289F1	39401	
Sheet 31	764	353357	I21S	4	3424	PETRA PL	1289F1	39401	
Sheet 31	765	247292	I21S	4	3436	PETRA PL	1289F1	39401	
Sheet 31	766	353482	I21S	4	3437	PETRA PL	1289F1	39401	
Sheet 31	767	247386	I21S	4	3425	PETRA PL	1289F1	39401	
Sheet 32	768	248100	I21S	4	1805	PETRA DR	1289F1	39331	
Sheet 32	769	248068	I21S	4	1817	PETRA DR	1289F1	39331	
Sheet 32	770	248119	I21S	4	1811	FRIEDRICK DR	1289F1	39336	
Sheet 32	771	353828	I21S	4	1841	FRIEDRICK DR	1289F1	39336	
Sheet 32	772	353858	I21S	4	1826	FRIEDRICK DR	1289F1	39336	
Sheet 32	773	353909	I21S	4	1825	FRIEDRICK DR	1289F1	39336	
Sheet 32	774	353945	I21S	4	1814	FRIEDRICK DR	1289F1	39336	
Sheet 32	775	353785	I21S	4	1838	FRIEDRICK DR	1289F1	39336	
Sheet 32	776	247785	I21S	4	1850	FRIEDRICK DR	1289F1	39336	
Sheet 32	777	354106	I21S	4	1761	PETRA DR	1289F2	39458	
Sheet 32	778	248333	I21S	4	1740	PETRA DR	1289F2	39458	
Sheet 32	779	354246	I21S	4	1727	PETRA DR	1289F2	39458	
Sheet 32	780	248256	I21S	4	1752	PETRA DR	1289F2	39458	
Sheet 32	781	354192	I21S	4	1737	PETRA DR	1289F2	39458	
Sheet 32	782	248414	I21S	4	1726	PETRA DR	1289F2	39458	
Sheet 32	783	354039	I21S	4	1773	PETRA DR	1289F2	39458	
Sheet 32	784	248181	I21S	4	1762	PETRA DR	1289F2	39458	
Sheet 32	785	354153	I21S	4	1749	PETRA DR	1289F2	39458	
Sheet 32	786	354214	I21S	4	1714	PETRA DR	1289F2	39458	
Sheet 32	787	354456	I21S	4	1709	FRIEDRICK DR	1289F2	39459	
Sheet 32	788	248918	I21S	4	1701	FRIEDRICK DR	1289F2	39459	
Sheet 32	789	354343	I21S	4	1718	FRIEDRICK DR	1289F2	39460	
Sheet 32	790	354379	I21S	4	1706	FRIEDRICK DR	1289F2	39460	
Sheet 32	791	248642	I21S	4	1711	PETRA DR	1289F2	39461	
Sheet 32	792	354341	I21S	4	1703	FRIEDRICK DR	1289F2	39461	
Sheet 32	793	354310	I21S	4	1709	FRIEDRICK DR	1289F2	39461	
Sheet 32	794	354083	I21S	4	1758	FRIEDRICK DR	1289F2	39462	
Sheet 32	795	354019	I21S	4	1802	FRIEDRICK DR	1289F2	39462	
Sheet 32	796	248270	I21S	4	1755	FRIEDRICK DR	1289F2	39462	
Sheet 32	797	248413	I21S	4	1741	FRIEDRICK DR	1289F2	39462	
Sheet 32	798	248169	I21S	4	1801	FRIEDRICK DR	1289F2	39462	
Sheet 32	799	354146	I21S	4	1748	FRIEDRICK DR	1289F2	39462	
Sheet 32	800	354201	I21S	4	1738	FRIEDRICK DR	1289F2	39462	
Sheet 32	801	354276	I21S	4	1728	FRIEDRICK DR	1289F2	39462	
Sheet 33	802	247766	I21S	4	1863	PENTUCKETT AV	1289F1	39326	
Sheet 33	803	353795	I21S	4	1860	PENTUCKETT AV	1289F1	39326	
Sheet 33	804	247878	I21S	4	1855	PENTUCKETT AV	1289F1	39326	
Sheet 33	805	353653	I21S	4	1875	PENTUCKETT AV	1289F1	39326	


**SEWER LATERAL SUMMARY TABLES**


Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 33	806	247835	I21S	4	1855	PENTUCKETT AV	1289F1	39326	
Sheet 33	807	353185	I21S	4	3624	GRAPE ST	1289F1	39388	
Sheet 33	808	353186	I21S	4	3624	GRAPE ST	1289F1	39388	
Sheet 33	809	353187	I21S	4	3644	GRAPE ST	1289F1	39388	
Sheet 33	810	247327	I21S	4	2622	FIR ST	1289F1	39390	
Sheet 33	811	353277	I21S	4	3625	GRAPE ST	1289F1	39390	
Sheet 33	812	5637956	I21S	4	3637	GRAPE ST	1289F1	39390	
Sheet 33	813	5637958	I21S	4	3627	GRAPE ST	1289F1	39390	
Sheet 33	814	5637959	I21S	4	3627	GRAPE ST	1289F1	39390	
Sheet 33	815	5637957	I21S	4	3627	GRAPE ST	1289F1	39390	
Sheet 33	816	247780	I21S	4	3615	FIR ST	1289F1	39395	
Sheet 33	817	5641471	I21S	4	3613	MC CLELLAN ST	1289F1	39395	
Sheet 33	818	5640392	I21S	4	3611	MC CLELLAN ST	1289F1	39395	
Sheet 33	819	247910	I21S	4	3521	FIR ST	1289F1	39396	
Sheet 33	820	353817	I21S	4	3511	FIR ST	1289F1	39396	
Sheet 33	821	353811	I21S	4	3501	FIR ST	1289F1	39396	
Sheet 33	822	247797	I21S	4	3516	FIR ST	1289F1	39396	
Sheet 33	823	353712	I21S	4	3502	FIR ST	1289F1	39396	
Sheet 33	824	5640672	I21S	4	1903	PENTUCKETT AV	1289F1	39397	
Sheet 33	825	247563	I21S	4	1903	PENTUCKETT AV	1289F1	39397	
Sheet 33	826	5640671	I21S	4	1903	PENTUCKETT AV	1289F1	39397	
Sheet 33	827	247409	I21S	4	1911	PENTUCKETT AV	1289F1	39398	
Sheet 33	828	353526	I21S	4	1910	PENTUCKETT AV	1289F1	39398	
Sheet 33	829	247140	I21S	4	1985	PETRA DR	1289F1	39399	
Sheet 33	830	353197	I21S	4	1982	PETRA DR	1289F1	39400	
Sheet 33	831	353288	I21S	4	1971	PETRA DR	1289F1	39400	
Sheet 33	832	247063	I21S	4	1972	PETRA DR	1289F1	39400	
Sheet 33	833	353289	I21S	4	1952	PETRA DR	1289F1	39402	
Sheet 33	834	353419	I21S	4	1932	PETRA DR	1289F1	39402	
Sheet 33	835	247219	I21S	4	1953	PETRA DR	1289F1	39402	
Sheet 33	836	247331	I21S	4	1941	PETRA DR	1289F1	39402	
Sheet 33	837	247421	I21S	4	1931	PETRA DR	1289F1	39402	
Sheet 33	838	247103	I21S	4	1962	PETRA DR	1289F1	39402	
Sheet 33	839	353344	I21S	4	1942	PETRA DR	1289F1	39402	
Sheet 34	840	248072	I21S	4	1825	PENTUCKETT AV	1289F1	39330	
Sheet 34	841	353997	I21S	4	1818	PENTUCKETT AV	1289F2	39330	
Sheet 34	842	353850	I21S	4	1847	PENTUCKETT AV	1289F1	39330	
Sheet 34	843	248151	I21S	4	1805	PENTUCKETT AV	1289F1	39330	
Sheet 34	844	248590	I21S	4	1758	PENTUCKETT AV	1289F2	39425	
Sheet 34	845	248428	I21S	4	1768	PENTUCKETT AV	1289F2	39425	
Sheet 34	846	354363	I21S	4	1757	PENTUCKETT AV	1289F2	39425	
Sheet 34	847	248277	I21S	4	1780	PENTUCKETT AV	1289F2	39425	
Sheet 34	848	248592	I21S	4	1763	PENTUCKETT AV	1289F2	39425	
Sheet 34	849	248558	I21S	4	1760	PENTUCKETT AV	1289F2	39425	
Sheet 34	850	248404	I21S	4	1777	PENTUCKETT AV	1289F2	39425	
Sheet 34	851	248482	I21S	4	1764	PENTUCKETT AV	1289F2	39425	
Sheet 34	852	354078	I21S	4	1784	PENTUCKETT AV	1289F2	39425	
Sheet 34	853	248345	I21S	4	1787	PENTUCKETT AV	1289F2	39425	
Sheet 34	854	248257	I21S	4	1799	PENTUCKETT AV	1289F2	39425	
Sheet 34	855	248371	I21S	4	1772	PENTUCKETT AV	1289F2	39425	
Sheet 34	856	248476	I21S	4	1769	PENTUCKETT AV	1289F2	39425	
Sheet 34	857	354615	I21S	4	1725	PENTUCKETT AV	1289F2	39467	
Sheet 34	858	354364	I21S	4	1750	PENTUCKETT AV	1289F2	39467	
Sheet 34	859	354418	I21S	4	1742	PENTUCKETT AV	1289F2	39467	
Sheet 34	860	354523	I21S	4	1725	PENTUCKETT AV	1289F2	39467	
Sheet 34	861	354496	I21S	4	1735	PENTUCKETT AV	1289F2	39467	
Sheet 34	862	248751	I21S	4	1749	PENTUCKETT AV	1289F2	39467	
Sheet 34	863	248808	I21S	4	1738	PENTUCKETT AV	1289F2	39467	
Sheet 34	864	248940	I21S	4	1726	PENTUCKETT AV	1289F2	39467	
Sheet 34	865	248853	I21S	4	1736	PENTUCKETT AV	1289F2	39467	
Sheet 34	866	248715	I21S	4	1750	PENTUCKETT AV	1289F2	39467	
Sheet 34	867	354492	I21S	4	1732	PENTUCKETT AV	1289F2	39467	
Sheet 34	868	354546	I21S	4	1722	PENTUCKETT AV	1289F2	39467	
Sheet 35	869	246100	I21S	4	2125	MONTCLAIR ST	1289G1	39231	
Sheet 35	870	246229	I21S	4	2115	MONTCLAIR ST	1289G1	39231	
Sheet 35	871	352375	I21S	4	2160	MONTCLAIR ST	1289G1	39231	
Sheet 35	872	246074	I21S	4	2130	MONTCLAIR ST	1289G1	39231	
Sheet 35	873	246003	I21S	4	2135	MONTCLAIR ST	1289G1	39231	
Sheet 35	874	352475	I21S	4	2140	MONTCLAIR ST	1289G1	39231	
Sheet 35	875	352412	I21S	4	2150	MONTCLAIR ST	1289G1	39231	
Sheet 35	876	245731	I21S	4	2165	MONTCLAIR ST	1289G1	39231	
Sheet 35	877	352662	I21S	4	2110	MONTCLAIR ST	1289G1	39231	
Sheet 35	878	352618	I21S	4	2120	MONTCLAIR ST	1289G1	39231	
Sheet 35	879	245815	I21S	4	2155	MONTCLAIR ST	1289G1	39231	
Sheet 35	880	352431	I21S	4	2145	MONTCLAIR ST	1289G1	39231	




**SEWER LATERAL SUMMARY TABLES**

Sheet #	Lateral	LATERAL FNS	FIELD BOOK PG	LATERAL SIZE	STREET #	STREET NAME	THOMAS BRO.	Main FSN #	Comments
Sheet 35	881	245570	I21S	4	2227	BOUNDARY ST	1289G1	39254	
Sheet 35	882	352348	I21S	4	2202	BOUNDARY ST	1289G1	39254	
Sheet 35	883	245624	I21S	4	2222	BOUNDARY ST	1289F1	39254	
Sheet 35	884	352271	I21S	4	2217	BOUNDARY ST	1289G1	39254	
Sheet 35	885	245792	I21S	4	2167	BOUNDARY ST	1289G1	39254	
Sheet 35	886	245874	I21S	4	2164	BOUNDARY ST	1289G1	39254	
Sheet 35	887	245966	I21S	4	2149	BOUNDARY ST	1289G1	39254	
Sheet 35	888	5640398	I21S	4	2207	BOUNDARY ST	1289G1	39254	
Sheet 35	889	245876	I21S	4	2157	BOUNDARY ST	1289G1	39254	
Sheet 35	890	245571	I21S	4	2232	BOUNDARY ST	1289F1	39254	
Sheet 35	891	245955	I21S	4	2154	BOUNDARY ST	1289G1	39254	
Sheet 35	892	352136	I21S	4	2237	BOUNDARY ST	1289G1	39254	
Sheet 35	893	352320	I21S	4	2212	BOUNDARY ST	1289F1	39254	
Sheet 35	894	245293	I21S	4	2270	BOUNDARY ST	1289F1	39365	
Sheet 35	895	245311	I21S	4	2257	BOUNDARY ST	1289G1	39365	
Sheet 35	896	245233	I21S	4	2267	BOUNDARY ST	1289G1	39365	
Sheet 35	897	245431	I21S	4	2250	BOUNDARY ST	1289F1	39365	
Sheet 35	898	245204	I21S	4	2277	BOUNDARY ST	1289F1	39365	
Sheet 35	899	5640462	I21S	4	2277	BOUNDARY ST	1289F1	39365	
Sheet 35	900	245412	I21S	4	2247	BOUNDARY ST	1289G1	39365	
Sheet 36	901	246523	I21S	4	2065	MONTCLAIR ST	1289G1	39227	
Sheet 36	902	246408	I21S	4	2085	MONTCLAIR ST	1289G1	39227	
Sheet 36	903	246554	I21S	4	2068	MONTCLAIR ST	1289G1	39227	
Sheet 36	904	246361	I21S	4	2094	MONTCLAIR ST	1289G1	39227	
Sheet 36	905	352773	I21S	4	2084	MONTCLAIR ST	1289G1	39227	
Sheet 36	906	352802	I21S	4	2075	MONTCLAIR ST	1289G1	39227	
Sheet 36	907	245992	I21S	4	2143	BECKY PL	1289G1	39232	
Sheet 36	908	352583	I21S	4	2133	BECKY PL	1289G1	39232	
Sheet 36	909	245807	I21S	4	2166	BECKY PL	1289G1	39232	
Sheet 36	910	352461	I21S	4	2146	BECKY PL	1289G1	39232	
Sheet 36	911	245806	I21S	4	2176	BECKY PL	1289G1	39232	
Sheet 36	912	245808	I21S	4	2156	BECKY PL	1289G1	39232	
Sheet 36	913	245805	I21S	4	2173	BECKY PL	1289G1	39232	
Sheet 36	914	245822	I21S	4	2163	BECKY PL	1289G1	39232	
Sheet 36	915	245950	I21S	4	2153	BECKY PL	1289G1	39232	
Sheet 36	916	352517	I21S	4	2130	BECKY PL	1289G1	39232	
Sheet 36	917	246597	I21S	4	2038	MONTCLAIR ST	1289G1	39242	
Sheet 36	918	353068	I21S	4	2025	MONTCLAIR ST	1289G1	39242	
Sheet 36	919	246621	I21S	4	2045	MONTCLAIR ST	1289G1	39242	
Sheet 36	920	353013	I21S	4	2035	MONTCLAIR ST	1289G1	39242	
Sheet 36	921	352879	I21S	4	2051	BOUNDARY ST	1289G1	39243	
Sheet 36	922	246515	I21S	4	2062	BOUNDARY ST	1289G1	39243	
Sheet 36	923	246729	I21S	4	2036	BOUNDARY ST	1289G1	39243	
Sheet 36	924	352784	I21S	4	2063	BOUNDARY ST	1289G1	39243	
Sheet 36	925	246756	I21S	4	2027	BOUNDARY ST	1289G1	39243	
Sheet 36	926	353064	I21S	4	2024	BOUNDARY ST	1289G1	39243	
Sheet 36	927	352948	I21S	4	2039	BOUNDARY ST	1289G1	39243	
Sheet 36	928	246627	I21S	4	2048	BOUNDARY ST	1289G1	39243	
Sheet 36	929	246372	I21S	4	2115	BOUNDARY ST	1289G1	39243	
Sheet 36	930	246409	I21S	4	2118	BOUNDARY ST	1289G1	39243	
Sheet 36	931	246934	I21S	4	2015	MONTCLAIR ST	1289G1	39244	
Sheet 36	932	353152	I21S	4	2005	MONTCLAIR ST	1289G1	39244	
Sheet 36	933	246157	I21S	4	2133	BOUNDARY ST	1289G1	39253	
Sheet 36	934	352648	I21S	4	2125	BOUNDARY ST	1289G1	39253	
Sheet 36	935	352623	I21S	4	2136	BOUNDARY ST	1289G1	39253	
Sheet 36	936	246306	I21S	4	2128	BOUNDARY ST	1289G1	39253	
Sheet 36	937	352538	I21S	4	2144	BOUNDARY ST	1289G1	39253	
Sheet 36	938	246052	I21S	4	2141	BOUNDARY ST	1289G1	39253	

 4" Lateral (Total =923)

 6" Lateral (Total = 12)

 8" Lateral (Total = 3)

**APPENDIX L**

**PIPELINE REHABILITATION V-1 MANHOLE AND CLEANOUT SUMMARY TABLES**



**PIPELINE REHABILITATION V-1 - MANHOLE AND CLEANOUT SUMMARY TABLES**

SHEET NO.	MAIN FSN	THOMAS BROS.	STREET NAME	MH ID	MANHOLE IE	MANHOLE DEPTH	MANHOLE METHOD	COMMUNITY	COUNCIL DIST.	FIELD BOOK
1	3789	1247J3	CASTLE HILLS DR	1	TIE TO EXISTING MAIN		ADD CLEANOUT	LA JOLLA	2	B13S
2	3739	1247J4	VUE DU BAY CT	2	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	B13S
4	3731	1247J4	CASTLE HILLS DR	323	218.62	11	REHAB	PACIFIC BEACH	2	B13S
4	3755	1247J4	WINDSOR DR	3	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	B13S
5	8561	1248A4	LOS ALTOS RD	294	278.72	9	REHAB	PACIFIC BEACH	2	C13S
5	8562	1248A4	CASSANDRA LN	27	281.78	8	REHAB	PACIFIC BEACH	2	C13S
6	8805	1248A4	LOS ALTROS RD	4	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
6	8806	1248A4	LOS ALTROS RD	292	236.13	10	REHAB	PACIFIC BEACH	2	C13S
6	8807	1248A4	LOS ALTROS RD	298	280.62	10	REHAB	PACIFIC BEACH	n	C13S
6	8808	1248A4	LOS ALTROS WAY	295	277.22	6	REHAB	PACIFIC BEACH	2	C13S
7	3767	1247J4	YOST PL	5	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	B13S
8	8627	1248B4	MIDDLETON RD	105	234.78	10	REHAB	PACIFIC BEACH	2	C13S
8	8636	1248B4	SOLEDAD RD	102	198	8	REHAB	PACIFIC BEACH	2	C13S
8	8636	1248B4	SOLEDAD RD	101	186.74	6	REHAB	PACIFIC BEACH	2	C13S
8	8637	1248B4	MIDDLETON RD	104	201	7	REHAB	PACIFIC BEACH	2	C13S
8	8639	1248B4	WESLEY DR	106	253.83	5	REHAB	PACIFIC BEACH	2	C13S
8	8639	1248B4	WESLEY DR	107	247	5	REHAB	PACIFIC BEACH	2	C13S
8	8641	1248B4	PRIVATE RD	108	246	8	REHAB	PACIFIC BEACH	2	C13S
8	8642	1248B4	PRIVATE RD	109	245.67	4	REHAB	PACIFIC BEACH	2	C13S
9	8423	1248B3	ALTO CERRO CR	6	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
9	8613	1248B3	ALTO CERRO CR	527	369.12	7	REHAB	PACIFIC BEACH	2	C13S
9	8616	1248B3	BAJA CERRO CR	145	404.52	6	REHAB	PACIFIC BEACH	2	C13S
10	8665	1248B3	SAN AQUARIO DR	137	422.12	7	REHAB	PACIFIC BEACH	2	C13S
10	8673	1248B3	ROMNEY RD	139	410.12	7	REHAB	PACIFIC BEACH	2	C13S
10	8674	1248B3	ROMNEY RD	138	390.72	9	REHAB	PACIFIC BEACH	2	C13S
11	8660	1248B3	SAN AQUARIO DR	128	291.12	9	REHAB	PACIFIC BEACH	2	C13S
11	8661	1248B3	SAN AQUARIO DR	132	346.12	7	REHAB	PACIFIC BEACH	2	C13S
11	8662	1248B3	SAN AQUARIO DR	133	363.12	9	REHAB	PACIFIC BEACH	2	C13S
11	8663	1248B3	SAN AQUARIO DR	134	390.12	9	REHAB	PACIFIC BEACH	2	C13S
11	8664	1248B3	SAN AQUARIO DR	136	413.12	6	REHAB	PACIFIC BEACH	2	C13S
11	8666	1248B3	PACIFICA DR	130	400.12	7	REHAB	PACIFIC BEACH	2	C13S
11	8666	1248B3	PACIFICA DR	129	355.12	9	REHAB	PACIFIC BEACH	2	C13S
11	8667	1248B3	PACIFICA DR	131	438.72	7	REHAB	PACIFIC BEACH	2	C13S
11	8668	1248B3	PACIFICA DR	7	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
11	8669	1248B3	PACIFICA DR	141	455.12	5	REHAB	PACIFIC BEACH	2	C13S



**PIPELINE REHABILITATION V-1 - MANHOLE AND CLEANOUT SUMMARY TABLES**

SHEET NO.	MAIN FSN	THOMAS BROS.	STREET NAME	MH ID	MANHOLE IE	MANHOLE DEPTH	MANHOLE METHOD	COMMUNITY	COUNCIL DIST.	FIELD BOOK
11	8669	1248B3	PACIFICA DR	142	434.72	9	REHAB	PACIFIC BEACH	2	C13S
12	8646	1248B4	RANDALL ST	8	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
12	8647	1248B4	RANDALL ST	115	263.27	6	REHAB	PACIFIC BEACH	2	C13S
12	8648	1248B4	RANDALL ST	113	242.01	27	REHAB	PACIFIC BEACH	2	C13S
12	8650	1248B4	LORING ST	116	239.72	7	REHAB	PACIFIC BEACH	2	C13S
12	8650	1248B4	LORING ST	117	217.12	7	REHAB	PACIFIC BEACH	2	C13S
12	8652	1248B4	SAN ANSELMO ST	120	174.26	13	REHAB	PACIFIC BEACH	2	C13S
12	8655	1248B4	SAN JOAQUIN DR	122	197.02	10	REHAB	PACIFIC BEACH	2	C13S
12	8655	1248B4	SAN JOAQUIN DR	119	187.92	6	REHAB	PACIFIC BEACH	2	C13S
12	8656	1248B4	SAN JOAQUIN DR	123	219.12	10	REHAB	PACIFIC BEACH	2	C13S
12	8657	1248B4	SAN JOAQUIN DR	124	260.12	7	REHAB	PACIFIC BEACH	2	C13S
12	8658	1248B4	SAN JOAQUIN DR	125	312.72	7	REHAB	PACIFIC BEACH	2	C13S
12	8659	1248B4	SAN JOAQUIN DR	9	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
12	8748	1248B4	SAN JOAQUIN DR	228	150.12	7	REHAB	PACIFIC BEACH	2	C13S
12	8748	1248B4	SAN ANSELMO ST	255	133.12	10	REHAB	PACIFIC BEACH	2	C13S
13	8643	1248B4	PRIVATE RD	110	345.12	4	REHAB	PACIFIC BEACH	2	C13S
13	8644	1248B4	WESLEY DR	111	243.79	6	REHAB	PACIFIC BEACH	2	C13S
13	8644	1248B4	WESLEY DR	112	242.91	8	REHAB	PACIFIC BEACH	2	C13S
14	8900	1248A4	ACADEMY ST	10	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
14	8904	1248A4	WILBUR AV	11	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
15	8697	1248B4	DONALDSON DR	153	164.83	6	REHAB	PACIFIC BEACH	2	C13S
16	8747	1248B4	ASTER ST	12	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
16	8752	1248B4	LA MARQUE ST	233	239.12	6	REHAB	PACIFIC BEACH	2	C13S
16	8752	1248B4	LA MARQUE ST	232	225.13	10	REHAB	PACIFIC BEACH	2	C13S
16	8769	1248B4	RANDALL ST	250	147.49	7	REHAB	PACIFIC BEACH	2	C13S
16	8769	1248B4	RANDALL ST	258	138.85	8	REHAB	PACIFIC BEACH	2	C13S
16	8776	1248B4	EASEMENT	13	TIE TO EXISTING MAIN		ADD CLEANOUT	PACIFIC BEACH	2	C13S
16	8775	1248B4	EASEMENT	260	149.65	4nn	REHAB	PACIFIC BEACH	2	C13S
16	8775	1248B4	EASEMENT	259	149.35	9	REHAB	PACIFIC BEACH	2	C13S
17	28068	1269A4	CONDOMINIUM	67	234.15	8	REHAB	UPTOWN	3	G18S
17	28156	1269A4	SR-163 SB OFF	349	107	8	REPLACE MH	UPTOWN	3	G18S
17	28159	1269A4	CONDOMINIUM	346	203.56	20	REHAB	UPTOWN	3	G18S
18	33503	1269D5	ARIZONA ST	118	328.85	8	REHAB	GREATER NORTH PARK	3	H18S
18	33564	1269D4	ALLEY	14	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	H18S
18	33566	1269D4	ARIZONA ST	15	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	H18S



**PIPELINE REHABILITATION V-1 - MANHOLE AND CLEANOUT SUMMARY TABLES**

SHEET NO.	MAIN FSN	THOMAS BROS.	STREET NAME	MH ID	MANHOLE IE	MANHOLE DEPTH	MANHOLE METHOD	COMMUNITY	COUNCIL DIST.	FIELD BOOK
20	33363	1269 E3	IOWA ST	263	387	5	REHAB	MID-CITY NORMAL HEITHS	3	H18S
20	33409	1269 E3	IOWA ST	264	380.61	6	REHAB	MID-CITY NORMAL HEITHS	3	H18S
21	37927	1269 E3	WEST MTN VIEW	312	388.9	nnnn	REHAB			
23	37982	1269F3	ALLEY	16	TIE TO EXISTING MAIN		ADD CLEANOUT	MID-CITY NORMAL HEITHS	3	I17S
25	37957	1269F3	ALLEY	17	TIE TO EXISTING MAIN		ADD CLEANOUT	MID-CITY NORMAL HEITHS	3	I17S
31	39197	1289F1	PETRA DR	18	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	I21S
31	39328	1289F1	FIR ST	19	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	I21S
31	39401	1289F1	PETRA DR	322	225.93	10	REHAB	GREATER NORTH PARK	3	I21S
33	39387	1289F1	FIR ST	20	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	I21S
33	39395	1289F1	FIR ST	21	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	I21S
33	39396	1289F1	FIR ST	22	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	I21S
33	39398	1289F1	PENTUCKETT AVE	23	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	I21S
33	39402	1289F1	PETRA DR	323	226.76	17	REHAB	GREATER NORTH PARK	3	I21S
34	39467	1289F2	PENTUCKETT AV	253	192.82	12	REHAB	GREATER NORTH PARK	3	I21S
34	39467	1289F2	PENTUCKETT AV	286	186.12	8	REHAB	GREATER NORTH PARK	3	I21S
36	39232	1289G1	BECKY PL	24	TIE TO EXISTING MAIN		ADD CLEANOUT	GREATER NORTH PARK	3	I21S

- Add Cleanout (Total = 24)
- Rehab MH (Total = 61)
- Replace MH (Total = 1)
- Repair MH (Total = 1)



**APPENDIX M**

**PIPELINE REHABILITATION V-1 POINT REPAIR SUMMARY TABLES**

**PIPELINE REHABILITATION V-1  
POINT REPAIR SUMMARY TABLE**

SHEET NO.	FSN	FIELD BOOK	LENGTH (Feet)	SIZE (inches)	MATL	SLOPE%	MAX d/D	US MH IE	# LATERALS	ACTION	STREET NAME	THOMAS BRO	COMMUNITY	COUNCIL DISTRICT	REMARKS	CONFLICT CHECK
6	8806	C13S	216	8	VC	2.551%	7.844%	236.13	1	REPAIR	LOS ALTOS RD	1248A4	PACIFIC BEACH	2	REHAB MH 292	
6	8811	C13S	194	8	VC	1.278%	46.410%	274.48	1	REPAIR	SOLEDAD RD	1248A4	PACIFIC BEACH	2	NA	
12	8748	C13S	185	8	VC	9.189%	16.230%	150.12	4	REPAIR	SAN ANSELMO ST	1248C4	PACIFIC BEACH	2	REHAB MH 228	
15	8693	C13S	220	8	VC	0.991%	5.406%	128.65	0	REPAIR	CHALCEDONY ST	1248B4	PACIFIC BEACH	2	NA	
15	8694	C13S	184	8	VC	6.120%	4.719%	161.52	3	REPAIR	DONALDSON DR	1248B4	PACIFIC BEACH	2	NA	
15	8695	C13S	173	8	VC	5.012%	4.946%	149.42	3	REPAIR	DONALDSON DR	1248B4	PACIFIC BEACH	2	NA	
17	28158	G18S	126	8	VC	25.600%		347	0	REPAIR	Easement	1269A4	UPTOWN	3		
17	28156	G18S	194	8	VC	11.326%	10.98%	107.00	0	REPAIR	SR-163 SB OFF	1269A4	UPTOWN	3	REPLACE MH 349	
18	33559	H18S	380	8	VC	1.318%	19.05%	324.19	1	INTERNAL POINT REPAIR/ REHAB	HOWARD AV	1269D5	GREATER NORTH PARK	3	NA	
23	37965	I17S	170	8	VC	0.947%	12.66%	387.24	4	INTERNAL POINT REPAIR/ REHAB	COLLIER AV	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37977	I17S	172	8	VC	1.372%	18.01%	388.44	2	REPAIR	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
23	37979	I17S	245	8	VC	1.392%	17.64%	391.85	10	REPAIR	ALLEY	1269F3	MID-CITY:NORMAL HEIGHTS	3	NA	
26	37745	I17S	180	8	VC	0.589%	6.60%	373.26	7	REPAIR	SYDNEY PL	1269G2	MID-CITY:NORMAL HEIGHTS	3	NA	
26	37752	I17S	316	8	VC	0.892%	24.62%	367.80	6	REPAIR	EUGENE PL	1269G2	MID-CITY:NORMAL HEIGHTS	3	NA	
29	29117	G21S	260	8	VC	11.308%	10.73%	108.56	2	REPAIR	10TH AV	1289B2	DOWNTOWN	3	NA	
30	39317	I21S	271	8	VC	1.295%	13.55%	208.02	1	INTERNAL POINT REPAIR/ REHAB	ELM ST	1289F2	GREATER GOLDEN HILL	3	NA	
34	39425	I21S	325	8	VC	0.400%	15.06%	194.12	13	REPAIR	PENTUCKETT AV	1289F2	GREATER NORTH PARK	3	NA	

 Point Repair sewer (total = 14)

 Internal Point Repair sewer (total = 3)

**APPENDIX N**  
**BIOLOGICAL RESOURCES LETTER**



THE CITY OF SAN DIEGO

## Public Works – Engineering & Capital Projects Department

March 14, 2013

**Subject: Biological Resources Letter Report for the *Sewer Pipeline Rehabilitation Phases U-1, V-1, W-1, and Y-1***

### **Introduction**

The City of San Diego Department of Public Works – Engineering and Capital Projects (E&CP) has prepared a biological resources letter report for the proposed Sewer Pipeline Rehabilitation Phases U-1, V-1, W-1, and Y-1 project as part of the submittal to the State Water Resources Control Board (SWRCB) for the State Revolving Fund loan program. The projects are located throughout the City of San Diego (see Figure 1, Project Location Map).

### **Project descriptions**

#### *Sewer Pipeline Rehabilitation Phase U-1*

The project is located within the Skyline-Paradise Hills Community Plan Area. This project proposes to rehabilitate approximately 49,632 linear feet (9.4 miles) of existing 8-inch sewer pipeline primarily within the paved right of way that includes rehabilitating 23 manholes (MHs), installing 52 new cleanouts and 12 replaced MHs, rehab or modified sewer laterals, as well as 38 segments of pipeline point repairs and 7 limited segments (1,061 linear feet) of pipeline replace-in-place. Some improvements would occur in ornamental landscape areas. No disturbance to native vegetation is proposed. Excavation of the area would occur

primarily over existing pipeline trenches, and previously disturbed soil. In all instances, the project combined with the related scope has been identified to occur in areas classified as ‘non-sensitive.’ Two methods of sewer main rehabilitation may be used for this project, both utilizing existing MHs and/or cleanouts. Both require access from two MHs and or a MH and cleanout for each pipe segment: 1) Cured in place pipe (CIPP) liner is pulled through the sewer main, cured used hot water or steam, and cut at both manholes; and 2) Ribloc (spiral) liner is pulled through the sewer main as plastic strips and then formed to a pipe to create a new pipeline, within the existing pipe. In areas where a secondary sewer MH/cleanout access is required, a new MH/cleanout shall be installed. Depth of new manholes, spot/point repairs and replace-in-place work would occur in existing disturbed trenches, varying in depth between 5 to 24 feet from grade. The installation of the MH is a 5’ W x 5’ L area and cleanouts are 3’W x 3’L area. Internal and/or external point repairs may occur in portions of pipe that require repair (i.e. due to offset joints, sags, or intruding laterals). Internal point repairs use the above methods, and involve similar methods as the rehabilitation and are contained solely within the pipe. External point repairs and replacement involve excavation of an approximate 3’W x 10’L area, from the ground surface to the existing pipeline.

#### *Sewer Pipeline Rehabilitation Phase V-1*

The project is located within the Downtown, Greater North Park, Mid-Cities, Pacific Beach and Uptown Community Plan Areas. This project proposes to rehabilitate approximately 43,962 linear feet (8.32 miles) of existing 8-inch sewer pipeline primarily within the paved right of way that includes rehabilitating 66 manholes (MHs), installing 26 new cleanouts and 1 MH repair, rehab or modified sewer laterals, as well as 17 pipeline point repairs and 1 replace-in-place segment. Some improvements would occur in ornamental landscape areas. No disturbance to native vegetation is proposed. Excavation of the area would occur primarily over existing pipeline trenches, and previously disturbed soil. In all instances, the project combined with the related scope has been identified to occur in areas classified as ‘non-sensitive.’ Two methods of sewer main rehabilitation may be used for this project, both utilizing existing MHs and/or cleanouts. Both require access from two MHs and or a MH and cleanout for each pipe segment: 1) Cured in place pipe (CIPP) liner is pulled through the sewer main, cured used hot water or steam, and cut at both manholes; and 2) Ribloc (spiral) liner is pulled through the sewer main as plastic strips and then formed to a pipe to create a



new pipeline, within the existing pipe. In areas where a secondary sewer MH/cleanout access is required, a new MH/cleanout shall be installed. Depth of new manholes, spot/point repairs would occur in existing disturbed trench, varying in depth between 5 to 24 feet from grade. The installation of the MH is a 5' W x 5' L area and cleanouts are 3'W x 3'L area. Internal and/or external point repairs may occur in portions of pipe that require repair (i.e. due to offset joints, sags, or intruding laterals). Internal point repairs use the above methods, and involve similar methods as the rehabilitation and are contained solely within the pipe. External point repairs involve excavation of an approximate 3'W x 10'L area, from the ground surface to the existing pipeline.

#### *Sewer Pipeline Rehabilitation Phase W-1*

The project is located within the La Jolla Community Plan Area. This project proposes to rehabilitate approximately 21,965 linear feet (4.16 miles) of existing 8-inch sewer pipeline primarily within the paved right of way that includes rehabilitating 23 manholes (MHs), installing 24 new cleanouts and replacing 8 MHs, rehab or modified sewer laterals, as well as 15 pipeline point repairs. Some improvements would occur in ornamental landscape areas. No disturbance to native vegetation is proposed. Excavation of the area would occur primarily over existing pipeline trenches, and previously disturbed soil. In all instances, the project combined with the related scope has been identified to occur in areas classified as 'non-sensitive.' Two methods of sewer main rehabilitation may be used for this project, both utilizing existing MHs and/or cleanouts. Both require access from two MHs and or a MH and cleanout for each pipe segment: 1) Cured in place pipe (CIPP) liner is pulled through the sewer main, cured used hot water or steam, and cut at both manholes; and 2) Ribloc (spiral) liner is pulled through the sewer main as plastic strips and then formed to a pipe to create a new pipeline, within the existing pipe. In areas where a secondary sewer MH/cleanout access is required, a new MH/cleanout shall be installed. Depth of new manholes, spot/point repairs would occur in existing disturbed trench, varying in depth between 5 to 24 feet from grade. The installation of the MH is a 5' W x 5' L area and cleanouts are 3'W x 3'L area. Internal and/or external point repairs may occur in portions of pipe that require repair (i.e. due to offset joints, sags, or intruding laterals). Internal point repairs use the above methods, and involve similar methods as the rehabilitation and are contained solely within the pipe. External point

repairs involve excavation of an approximate 3'W x 10'L area, from the ground surface to the existing pipeline.

#### *Sewer Pipeline Rehabilitation Phase Y-1*

The project is located within the La Jolla and University City Community Plan Areas. This project proposes to rehabilitate approximately 45,048 linear feet (7.74 miles) of existing 8-inch sewer pipeline primarily within the paved right of way that includes rehabilitating 28 manholes (MHs), installing 15 new cleanouts and replacing 21 MHs, rehab or modified sewer laterals, as well as 18 pipeline point repairs. Some improvements would occur in ornamental landscape areas. No disturbance to native vegetation is proposed. Excavation of the area would occur primarily over existing pipeline trenches, and previously disturbed soil. In all instances, the project combined with the related scope has been identified to occur in areas classified as 'non-sensitive.' Two methods of sewer main rehabilitation may be used for this project, both utilizing existing MHs and/or cleanouts. Both require access from two MHs and or a MH and cleanout for each pipe segment: 1) Cured in place pipe (CIPP) liner is pulled through the sewer main, cured used hot water or steam, and cut at both manholes; and 2) Ribloc (spiral) liner is pulled through the sewer main as plastic strips and then formed to a pipe to create a new pipeline, within the existing pipe. In areas where a secondary sewer MH/cleanout access is required, a new MH/cleanout shall be installed. Depth of new manholes, spot/point repairs would occur in existing disturbed trench, varying in depth between 5 to 24 feet from grade. The installation of the MH is a 5' W x 5' L area and cleanouts are 3'W x 3'L area. Internal and/or external point repairs may occur in portions of pipe that require repair (i.e. due to offset joints, sags, or intruding laterals). Internal point repairs use the above methods, and involve similar methods as the rehabilitation and are contained solely within the pipe. External point repairs involve excavation of an approximate 3'W x 10'L area, from the ground surface to the existing pipeline.

#### **Methodology**

The vegetation GIS layer from SanGIS and aerial orthophotos from 2005 and 2009 were analyzed to determine areas with the potential for vegetation that would support migratory or other sensitive bird species per local, state and federal standards. Those sections of the project

were removed. Then a GIS search of remaining project elements within 100 feet of the MHPA were used to identify eight avian survey sites.

Project	Location	Photo
V-1 (b)	5 <sup>th</sup> Ave	1
V-1 (b)	Canyon behind Massachusetts St.	2
V-1 (a)	End of Archer St. and end of Alta Vista Way	3
V-1(c )	Felton St. and Fir St.	4
V-1 (c )	Gregory St. and Elm St.	5, 6
Y-1 (b)	Angel Ave	7
Y-1 (b)	Via Mallorca	8
V-1 (b)	Petra Pl	9

Avian surveys were conducted with high powered 10 x 32 WF binoculars by Katherine Comer Santos on October 8, 9, and 10, 2012 in 15 min. intervals during the hours of 9 am to 5 pm. The weather was mostly sunny, slightly breezy, with a temperature of 69 to 71 degrees Fahrenheit. The purpose of the surveys was to observe the presence/absence of avian species defined as migratory per the Migratory Bird Treaty Act (MBTA) and/or rare, threatened, endangered or listed as a covered species under the City’s MSCP, nesting or otherwise. Species presence was noted and bird activities were observed to determine the potential for nesting movement and behavior. Vegetation communities and plant species within ~30 feet of the project were observed for the potential to support sensitive avian species, as well as possible nesting sites. Photographs were taken at each observation location to demonstrate vegetation and degree of urbanization and/or disturbance (see Appendix C).

**Results of Avian Survey**

During the approximately three hours of observation, 13 avian species were observed and/or detected in flight or resting within 300 feet of the project area, either by call, or visual identification (see Appendix B). None of the observed species are federally or state listed as endangered or threatened. One potential nest was observed off of Petra Pl. high in a

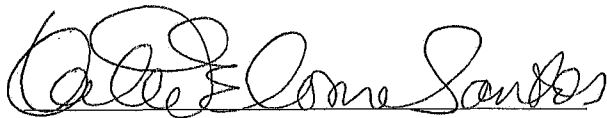
eucalyptus tree, but it did not appear occupied. The surveys confirm the conclusion of the biological analysis that no impacts to biologically sensitive species will occur as a result of the project, as all work is occurring in paved areas or disturbed areas. However, given the adjacency of the eight sites to open space areas that have the potential to support sensitive species, this project will include construction requirements to avoid breeding season or to conduct pre-construction surveys and to avoid work at these locations during the breeding season if presence is determined.

### **Biological Analysis**

No direct impacts to regulated habitat or sensitive species will result from implementation of this sewer rehabilitation project. The project areas are located within the public right-of-way. Surrounding land uses include residential (single- and multiple-family), transportation, and open space areas. Adjacent open space areas support a school, non-native grasslands, coastal sage scrub, chaparral, ruderal, and riparian habitats. These open space areas have the potential to support federal- and state-listed species such as gnatcatchers, cactus wren, and least Bell's vireo. Federally listed faunal species that have the potential to occur in open space adjacent to the project areas have been included in Appendix A. There is no potential for listed flora species to occur on-site as all work occurs in the developed right of way or disturbed areas. Any project area where removal of vegetation (non-native and ornamental) is necessary would require a pre-construction bird nesting survey for compliance with the MBTA, and any grading activities in the eight areas identified above that are adjacent to sensitive open space would be subject to the following requirements, which will be included in the contract specifications:

The Contractor shall implement the following Project features as identified in the Land Use Adjacency Guidelines of the Multi-Habitat Planning Area (MHPA) under the San Diego Multi-species Conservation Program (see Appendix D) to avoid potential impacts to migratory birds, federal ESA-listed species, and water quality, as follows:

1. The Contractor shall avoid night time work that would require using lighting equipment.
2. The Contractor shall schedule construction to avoid work during the breeding season (between February 1st through September 30th) to avoid impacts to nesting bird species.
3. If work must occur during the breeding season, the Contractor shall obtain a qualified biologist to conduct pre-construction surveys to assess the presence of MBTA-listed and federal ESA-listed species and their habitats, evaluate noise impacts, and recommend appropriate noise attenuating measures.
4. The Contractor shall implement appropriate stormwater Best Management Practices to control erosion and sediment and direct drainage away from the MHPA.



Katherine Comer Santos, Biologist III

City of San Diego

Public Works – Engineering & Capital Projects Department

Attachments: Appendix A – Sensitive Species with the Potential to Occur  
Appendix B – Observed Avian Species  
Appendix C – Photographic Survey  
Appendix D – Photographic Key

cc: Kerry Santoro, Project Officer II



## Appendix A: Sensitive Species with the Potential to Occur

<b>Sensitive Species with the Potential to Occur within Adjacent Open Space Sewer Pipeline Rehabilitation Phase U-1 through Y-1</b>			
Animal Species	Status	Habitat	Potential Status
Cooper's Hawk <i>Accipiter cooperii</i>	MSCP	Woodland habitats near water. Often found in urban areas near bird feeders.	Moderate potential to occur in foraging area.
Northern Harrier <i>Circus cyaneus</i>	MSCP; California Species of Special Concern	Open fields, grass fields	Low potential to forage and nest in adjacent non-native grasslands.
California least tern <i>Sterna antillarum browni</i>	Federal Endangered; State Endangered; MSCP	Sandy beaches, salt pan	None. No appropriate habitat present in project area or project vicinity.
Least Bell's vireo <i>Vireo bellii pusillus</i>	Federal Endangered; State Endangered; MSCP	Riparian scrub habitats	None. No appropriate habitat present in project area or project vicinity.
Coastal California gnatcatcher <i>Polioptila californica</i>	Federal Threatened; MSCP	Coastal sage scrub, coastal sage-chaparral scrub	High potential to occur within open space areas adjacent to project site.
Western mastiff bat <i>Eumops perotis californicus</i>	California Species of Special Concern	Desert scrub, chaparral and mixed conifer forest, rock outcroppings and cliffs for nesting.	None. No appropriate habitat present in project area or project vicinity.
Coastal cactus wren <i>Campylorhynchus brunneicapillus sandiegensis</i>	California Species of Special Concern; MSCP	Coastal sage scrub, cactus scrub	Low potential to occur within open space areas adjacent to project site.
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	Federal Threatened; California Species of Special Concern; MSCP	Coastal beaches, dune-backed beaches, sparsely-vegetated dunes, beaches at creek and river mouths, and salt pans	None. No appropriate habitat present in project area or project vicinity.
Orange-throated whiptail <i>Aspidoscelis hyperythra</i>	California Species of Special Concern; MSCP	Chaparral, coastal sage scrub, annual grasslands and oak woodlands	Moderate potential to occur within open space areas adjacent to project site.
Burrowing owl <i>Athene cunicularia</i>	California Species of Special Concern; MSCP	Open, dry grasslands, agricultural and range lands, desert habitats	Low potential to occur within adjacent open space areas.
Mexican long-tongued bat <i>Choeronycteris mexicana</i>	California Species of Special Concern	Thorn scrub, desert canyons, semi-desert grassland, oak woodland and tropical deciduous forests	None. No appropriate habitat present in project area or project vicinity.

San Diego fairy shrimp <i>Branchinecta sandiegonensis</i>	Federal Endangered; MSCP	Vernal pools, seasonal depressions	None. No appropriate habitat present in project area or project vicinity.
Southern California rufous-crowned sparrow <i>(Aimophila ruficeps canescens)</i>	California Species of Special Concern; MSCP	Occurs in sage scrub and grassland areas	Moderate. Suitable habitat occurs within the study area.
Bell's sage sparrow <i>(Amphispiza belli belli)</i>	California Species of Special Concern; MSCP	Prefers chaparral and sage scrub with modest leaf-litter on the ground (e.g., after a fire or in gabbro-based soil areas).	Low. Some suitable habitat occurs within the study area.

## Appendix B: Avian Species Observed

Scientific Name	Common Name
Archilochus anna	Anna's Hummingbird
Corvus brachyrhynchos	American crow
Carpodacus mexicanus	house finch
Mimus polyglottos	Mockingbird
Dendroica coronata	yellow-rumped warbler
Sayornis nigricans	Black Phoebe
Buteo jamaicensis	Red-tailed hawk
Zenaida macroura	Mourning dove
Columba livia	Rock dove
Aphelocoma californica	Western scrub jay
Falco sparverius	American kestrel
Melospiza crissalis	California towhee
Troglodytes aedon	House wren

## Appendix C: Photographic Survey



**Photo #1:** V-1(b) at 5<sup>th</sup> Ave site facing south. Surrounding land uses include a steep slope up to a school in the MHPA to the east, ornamental vegetation, multi-family residences. There is a tennis court and parking lot. Observed plants included: Penstemon, Brazilian pepper trees, pines, acacia, bottlebrush, jasmine, fountain grass, cypress, ivy, laurel sumac, Mexican fan palm. Bird observed include: Anna's hummingbird, mocking bird, yellow-rumped warbler, California towhee. There is potential habitat for raptors.





**Photo #2:** V-1(b) at end of Massachusetts St. facing west. View of manhole above brow ditch and below SR-163. Adjacent land uses include MHPA, disturbed, transportation. Plants observed include: hottentot fig, mustard, horseweed, poison hemlock, chrysanthemum, foxtail brome, fennel, tree tobacco. The vegetation community in the MHPA is disturbed chaparral separated from the work area by a chain link fence. Birds observed include red-tailed hawk. There is habitat for gnatcatcher but the loud noise from the highway would likely drown out any construction noise. This is a rehab and point repair.





**Photo #3:** V-1 (a) end of Archer St. and Alta vista Way. Surrounding land uses include single-family residential and MHPA. Vegetation communities consist of ornamental/urban landscape, disturbed, coastal sage scrub, and riparian. Plants observed include California sagebrush, tumble weed, lemonade berry, Menzies' goldenbush, onion weed, canary island sea lavender, buckwheat, fountain grass, prickly pear, crystalline iceplant, arroyo willow, laurel sumac, canary island palm. Birds observed include house wren. There is gnatcatcher habitat here, potential Least Bell's vireo and cactus wren habitat also exist. This is a rehabilitation project that is entirely in the adjacent streets.



**Photo #4:** V-1 ( c) Felton St. and Fir St. Surrounding land uses include single-family residential and open space. Vegetation consists of ornamental/urban landscape. Plants observed include cottonwood tree, pepper trees, palms. Calls heard include black phoebe, red-tailed hawk. Observed an American crow and house wren. This is rehabilitation.





Photo #5. V-1 (c) looking from the dead end off Gregory St and Elm St. Surrounding land uses include multi- and single-family residential and open space. Vegetation communities consists of ornamental/urban landscape and adjacent MHPA. Birds observed include rock dove, mourning dove, western scrub jay, house finch. This is rehabilitation and point repair between two yards.



**Photo #6.** Adjacent to V-1 ( c) rehabilitation and point repair on Gregory and Elm. View of the drop to the MHPA from the dead end of Gregory St. There is a steep drop to the MHPA which contains disturbed coastal sage scrub. There is potential habitat for gnatcatchers. Red-tailed hawk observed here.





**Photo #7** Y-1 (b) view of MHPA towards the end of Angel Ave. This segment was removed from the project and the rest of the street has a buffer of houses between the project and the MHPA. Surrounding land uses are single family residential and open space/MHPA. Vegetation communities include ornamental, disturbed, and riparian at the bottom of the steep slope. Plants near the project included coyote bush, hottentot fig, mustard, Menzies' goldenbush, fennel. Bird call heard was a hummingbird. Birds observed were the American kestrel and American crow. There is potential habitat for raptors.





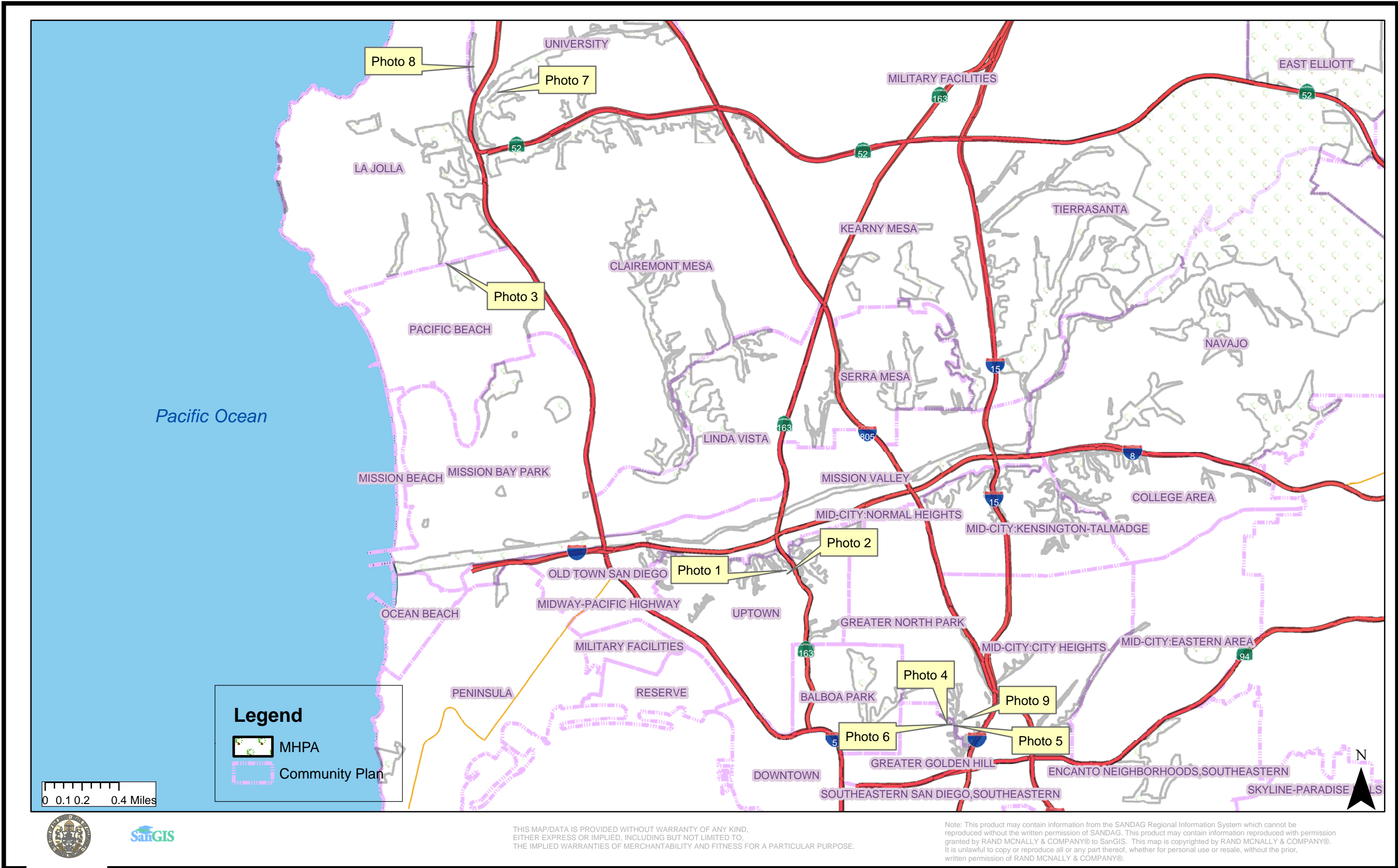
Photo # 8 Y-1(b). Via Mallorca and Caminito Gandara. This segment was removed from the project and the rest of the street has a buffer of houses between the project and the MHPA. Surrounding land uses include multi-family residential. The MHPA is at the bottom of a steep slope. There is a pool and dog park near the project. Vegetation is ornamental including olive trees, eucalyptus, pines, non-native sycamores, acacias. Birds observed were mourning doves, humming birds, American crow. This is potential raptor habitat. This is a rehabilitation segment.



**Photo #9.** V-1 (b) view of dead end of Petra Pl. Surrounding land uses are single family residential and open space. Vegetation is ornamental including eucalyptus. Birds observed included mourning dove, red-tailed hawk, Anna’s hummingbird, black phoebe. There are houses between the MHPA and the project. One unoccupied potential nest was observed high in a eucalyptus tree. There is raptor habitat. This is a rehabilitation project.



# Appendix D - Photo Key



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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# City of San Diego

CITY CONTACT: Eleida Felix Yackel - Contract Specialist, Email: EFelixYackel@sandiego.gov  
Phone No. (619) 533-3449, Fax No. (619) 533-3633

## ADDENDUM "A"

FOR



## PIPELINE REHABILITATION V-1

BID NO.:	<u>K-14-5932-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-13013</u>
CLIENT DEPARTMENT:	<u>2011</u>
COUNCIL DISTRICT:	<u>2</u>
PROJECT TYPE:	<u>JA</u>

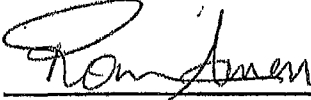
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### BID DUE DATE:

**2:00 PM**  
**AUGUST 13, 2013**  
**CITY OF SAN DIEGO**  
**PUBLIC WORKS CONTRACTING GROUP**  
**1010 SECOND AVENUE, SUITE 1400, MS 614C**  
**SAN DIEGO, CA 92101**

## ENGINEER OF WORK

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

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

8/2/2013  
Date

Seal:





**A. CHANGES TO CONTRACT DOCUMENTS**

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

**B. VOLUME 1**

1. To the SSP, SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR, **ADD** the following:

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

1. For contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), etc. by the Contractor) for all of your employees or Subcontractors who provide professional engineering services under this contract, you must keep or must require its Subcontractor keep in full force and effect, Professional Liability coverage with a limit of \$1,000,000 per claim and \$2,000,000 annual aggregate.
  2. You must ensure both that: (a) the policy retroactive date is on or before the date of commencement of the Project; and (b) the policy will be maintained in force for a period of 3 years after completion of the Project or termination of this contract whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
  3. If professional engineering services are to be provided solely by the Subcontractor, you must (a) certify this to the City in writing and (b) agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.
2. To the SSP, SECTION 7 – RESPONSIBILITIES OF THE CONTRACTOR, **ADD** the following:

**7-10.2.2 ENGINEERED Traffic Control Plans Provided by the Contractor.**

To the City Supplement, **ADD** the following:

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

- a. FSN 28156 crossing SR-163, Appendix I, Sheet No. 17
- b. FSN 29117 and FSN 29118 along SR-163, Appendix I, Sheet 29

Tony Heinrichs, Director  
Public Works Department

Dated: *August 5, 2013*  
San Diego, California

TH/BD/EFY/egz

10

# City of San Diego

CONTRACTOR'S NAME: Southwest Pipeline & Trenchless Corp.  
 ADDRESS: 22118 S. Vermont Ave. Torrance, CA 90502  
 TELEPHONE NO.: \_\_\_\_\_ FAX NO.: 310.329.0981  
 CITY CONTACT: Eleida Felix Yackel - Contract specialist, Email: EFelixYackel@sandiego.gov  
 Phone No. (619) 533-3449, Fax No. (619) 533-3633  
 CGascon/BDoringo/LD

## CONTRACT DOCUMENTS



## FOR

### PIPELINE REHABILITATION V-1

VOLUME 2 OF 2

BID NO.:	<u>K-14-5932-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-13013</u>
CLIENT DEPARTMENT:	<u>2011</u>
COUNCIL DISTRICT:	<u>2</u>
PROJECT TYPE:	<u>JA</u>

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

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

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

# TABLE OF CONTENTS

## Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Include the form(s) even if the information does not apply. Where the information does not apply write in N/A. Failure to include any of the forms may cause the Bid to be deemed **non-responsive**. If you are uncertain or have any questions about any required information, contact the City no later than 14 days prior to Bid due date.

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**BIDDING DOCUMENTS**

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**PROPOSAL**

**Bidder's General Information**

To the City of San Diego:

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

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

**IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:**

- (1) Name under which business is conducted \_\_\_\_\_
- (2) Signature (Given and surname) of proprietor \_\_\_\_\_
- (3) Place of Business (Street & Number) \_\_\_\_\_
- (4) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_
- (5) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

**BIDDING DOCUMENTS**

**IF A PARTNERSHIP, SIGN HERE:**

(1) Name under which business is conducted \_\_\_\_\_

(2) Name of each member of partnership, indicate character of each partner, general or special (limited):  
\_\_\_\_\_  
\_\_\_\_\_

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

Full Name and Character of partner  
\_\_\_\_\_  
\_\_\_\_\_

(4) Place of Business (Street & Number) \_\_\_\_\_

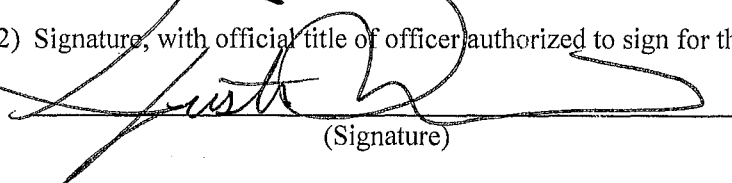
(5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

(6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

**IF A CORPORATION, SIGN HERE:**

(1) Name under which business is conducted Southwest Pipeline & Trenchless Corp.

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

  
(Signature)

Justin Duchaineau

(Printed Name)

President

(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of California

(4) Place of Business (Street & Number) 22118 S. Vermont Avenue

(5) City and State Torrance Zip Code 90502

(6) Telephone No. 310.329.8717 Facsimile No. 310.329.0981



**BIDDING DOCUMENTS**

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**THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:**

In accordance with the "NOTICE INVITING BIDS", the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION \_\_\_\_\_ A \_\_\_\_\_

LICENSE NO. 773862 \_\_\_\_\_ EXPIRES 1-31-2014 \_\_\_\_\_

This license classification must also be shown on the front of the bid envelope. Failure to show license classification on the bid envelope may cause return of the bid unopened.

TAX IDENTIFICATION NUMBER (TIN): XXXXXXXXXX \_\_\_\_\_

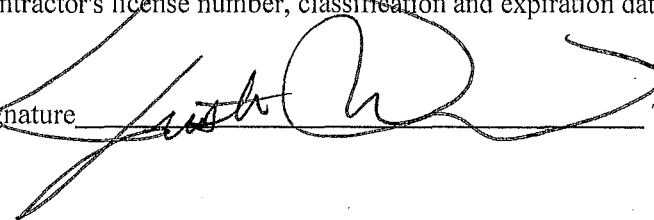
E-Mail Address: justin@swpipeline.com \_\_\_\_\_

**BIDDING DOCUMENTS**

**THIS PROPOSAL MUST BE NOTARIZED BELOW:**

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

Signature

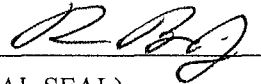


Title

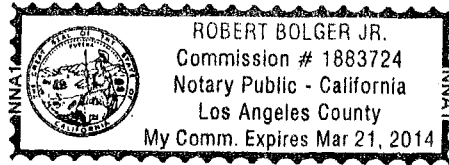
President

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 12th DAY OF August, 2013.

Notary Public in and for the County of Los Angeles, State of California



(NOTARIAL SEAL)



BIDDING DOCUMENTS

BID BOND

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 V-1

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 17th day of July, 2013

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

Liberty Mutual Insurance Company (SEAL) (Surety)

By: Justin Duchaineau (Signature)

By: Noemi Quiroz (Signature)



(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

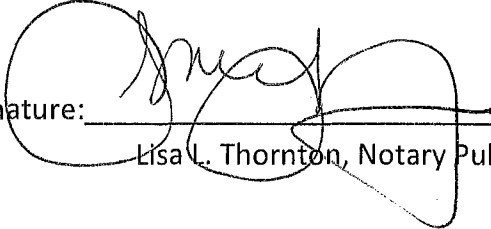
State of California )  
 ) ss  
County of Los Angeles )

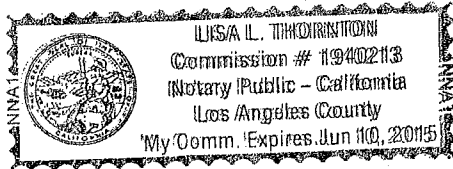
On JUL 17 2013, before me, Lisa L. Thornton, Notary Public, personally appeared Noemi Quiroz, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their 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:   
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.

American Fire and Casualty Company  
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company  
West American Insurance Company

### POWER OF ATTORNEY

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

Surety Bond Number: Bld 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 1st day of December, 2012.



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

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

STATE OF WASHINGTON  
COUNTY OF KING

ss

On this 1st day of December, 2012, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

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



By: KD Riley  
KD Riley, Notary Public, Notary Public

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

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

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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 17th day of July, 2013.



By: David M. Carey



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 Los Angeles ) ss.

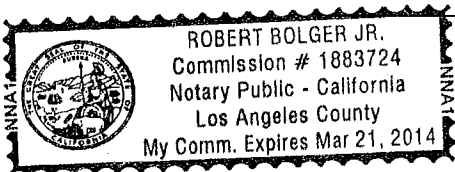
Justin Duchaineau, being first duly sworn, deposes and says that he or she is President of the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine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

Signed:

Title: President

Subscribed and sworn to before me this 12th day of August, 2013

[Signature]
Notary Public



(SEAL)

**BIDDING DOCUMENTS**

**CONTRACTORS CERTIFICATION OF PENDING ACTIONS**

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 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.

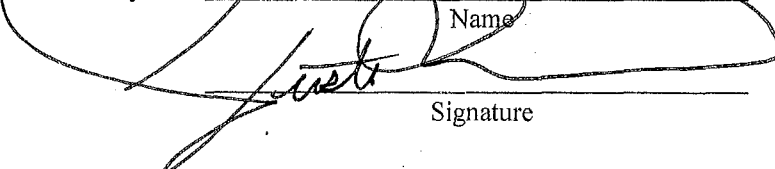
- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
- The undersigned certifies that within the 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 8-12-2013

**USE ADDITIONAL FORMS AS NECESSARY**

**BIDDING DOCUMENTS**

**EQUAL BENEFITS ORDINANCE  
CERTIFICATION OF COMPLIANCE**



For additional information, contact:  
**CITY OF SAN DIEGO**  
**EQUAL BENEFITS PROGRAM**  
 202 C Street, MS 9A, San Diego, CA 92101  
 Phone (619) 533-3948 Fax (619) 533-3220

COMPANY INFORMATION	
Company Name: Southwest Pipeline & Trenchless Corp.	Contact Name: Justin Duchaineau
Company Address: 22118 S. Vermont Ave. Torrance, CA 90502	Contact Phone: 310.329.8717 Contact Email: justin@swpipeline.com

CONTRACT INFORMATION	
Contract Title: Pipeline Rehabilitation V-1	Start Date:
Contract Number (if no number, state location):	End Date:

**SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS**

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
  - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
  - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at [www.sandiego.gov/administration](http://www.sandiego.gov/administration).

**CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION**

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

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

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

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

Justin Duchaineau-President 8-12-2013  
 Name/Title of Signatory Signature Date

**FOR OFFICIAL CITY USE ONLY**

Receipt Date: EBO Analyst:  Approved  Not Approved – Reason:

rev 02/15/2011

**BIDDING DOCUMENTS**

The Bidder agrees to the construction of **Pipeline Rehabilitation V-1**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
<b>BASE BID</b>							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)	<del>                    </del>	\$20,000. <sup>00</sup>
2	1	EA	541214	3-3.2.2	Certified Payroll	\$ 1. <sup>00</sup>	\$ 1. <sup>00</sup>
3	1	AL	237110	7-5.3	CalTrans Encroachment Permit – Type II	<del>                    </del>	\$ 5,000.00
4	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions	<del>                    </del>	\$ 1,500. <sup>00</sup>
5	1	AL	237310	7-10.2.6	Portable Changeable Message Signs (PCMS) - Type I	<del>                    </del>	\$ 10,000.00
6	1	LS	237310	7-10.2.6	Traffic Control	<del>                    </del>	\$ 10,000. <sup>00</sup>
7	1	LS	541820	7-16.3	Community Liaison	<del>                    </del>	\$ 3,500. <sup>00</sup>
8	1	LS	237110	9-3.4.1	Mobilization	<del>                    </del>	\$ 5,000. <sup>00</sup>
9	1	AL		9-3.5	Field Orders – Type II	<del>                    </del>	\$149,760.00
10	12,100	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Striping	\$ .75	\$ 9,075. <sup>00</sup>
11	330	SF	237310	302-3.2	Asphalt Pavement Repair	\$ 4.50	\$ 1,485. <sup>00</sup>
12	70	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$ 4.50	\$ 315. <sup>00</sup>
13	5,976	LF	237310	302-14.5	Crack Seal	\$ .50	\$ 2,988. <sup>00</sup>
14	33	LF	237310	303-5.9	Additional Curb and Gutter	\$ 33. <sup>00</sup>	\$ 1,089. <sup>00</sup>
15	130	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$ 4.50	\$ 585. <sup>00</sup>
16	4	EA	237310	303-5.10.2	Curb Ramp Type A with Detectable Warning Tiles	\$ 1,750. <sup>00</sup>	\$ 7,000. <sup>00</sup>
17	2	EA	237310	303-5.10.2	Curb Ramp Type B with Detectable Warning Tiles	\$ 1,750. <sup>00</sup>	\$ 3,500. <sup>00</sup>
18	6	EA	237310	303-5.10.2	Curb Ramp Type C2 with Detectable Warning Tiles	\$ 1,850. <sup>00</sup>	\$ 11,100. <sup>00</sup>
19	1	EA	237310	303-5.10.2	Curb Ramp Type D with Detectable Warning Tiles	\$ 1,950. <sup>00</sup>	\$ 1,950. <sup>00</sup>
20	1	LS	237110	306-1.1.6	Trench Shoring	<del>                    </del>	\$ 1,000. <sup>00</sup>
21	85	CY	237110	306-1.2.1.1	Additional Bedding	\$ 50. <sup>00</sup>	\$ 4,250. <sup>00</sup>
22	1,210	TON	237110	306-1.6	Imported Backfill	\$ 10. <sup>00</sup>	\$ 12,100. <sup>00</sup>
23	41,876	LF	237110	306-9.7	Cleaning and Video Inspecting Sewer Mains for Acceptance	\$ .40	\$ 16,750. <sup>40</sup>

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
24	926	EA	237110	306-9.7	Cleaning and Video Inspecting Sewer Laterals for Acceptance	\$ 1.00	\$ 926.00
25	41,876	LF	237110	306-9.7	Cleaning and Video Inspecting Sewer Mains	\$ .65	\$ 27,219.40
26	938	EA	237110	306-9.7	Cleaning and Video Inspecting Sewer Laterals	\$ 69.00	\$ 64,722.00
27	147	TON	237310	306-1.5.1	Temporary Resurfacing	\$ 100.00	\$ 14,700.00
28	24	EA	237110	306-1.6	Sewer Main Cleanout	\$ 3,000.00	\$ 72,000.00
29	1	EA	237110	306-1.8.6	Manholes (3'x 4')	\$ 10,000.00	\$ 10,000.00
30	41,876	LF	237110	500-1.1.9	Rehabilitate 8-Inch Sewer Main	\$ 18.00	\$ 753,768.00
31	13	EA	237110	500-1.2.7	Point Repair for Existing 8-Inch Sewer Main	\$ 3,000.00	\$ 39,000.00
32	300	LF	237110	500-1.2.7	Additional Point Repair for Existing 8-Inch Sewer Main	\$ 175.00	\$ 52,500.00
33	3	EA	237110	500-1.6.6	Internal Point Repair for Existing 8-Inch Sewer Main	\$ 1,500.00	\$ 4,500.00
34	923	EA	237110	500-1.6.6	Service Lateral Connection	\$ 795.00	\$ 733,785.00
35	12	EA	237110	500-1.6.6	6" Service Lateral Connection	\$ 820.00	\$ 9,840.00
36	3	EA	237110	500-1.6.6	8" Service Lateral Connection	\$ 900.00	\$ 2,700.00
37	938	EA	237110	500-1.6.6	Sewer Lateral Lining	\$ 1,350.00	\$ 1,266,300.00
38	12	EA	237110	500-1.6.6	6" Sewer Lateral Lining	\$ 2,000.00	\$ 24,000.00
39	3	EA	237110	500-1.6.6	8" Sewer Lateral Lining	\$ 2,100.00	\$ 6,300.00
40	231	EA	237110	500-1.6.6	Point Repair for Existing 4 -Inch Sewer Lateral	\$ 700.00	\$ 161,700.00
41	2,000	LF	237110	500-1.6.2.6	Additional Point Repair for Existing 4-Inch Sewer Lateral	\$ 54.00	\$ 108,000.00
42	61	EA	237110	500-2.10.2	Rehabilitate Existing Manhole	\$ 1,425.00	\$ 86,925.00
43	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	<del>XXXXXXXXXX</del>	\$ 1,000.00
44	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	<del>XXXXXXXXXX</del>	\$ 1,000.00
45	1	LS	237110	704-4.4	Sewer Bypass & Pumping Plan (Flow Diversion)	<del>XXXXXXXXXX</del>	\$ 2,500.00
<b>ESTIMATED TOTAL BASE BID:</b>							<b>\$ 3,721,333.80</b>



**BIDDING DOCUMENTS**

TOTAL BID PRICE FOR BID (Items 1 through 45 inclusive) amount written in words:

*Three Million Seven Hundred Twenty One Thousand Three Hundred Thirty Three Dollars Eighty Cents.*

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid:     A    

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

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.

Bidder:     Southwest Pipeline & Trenchless Corp.    

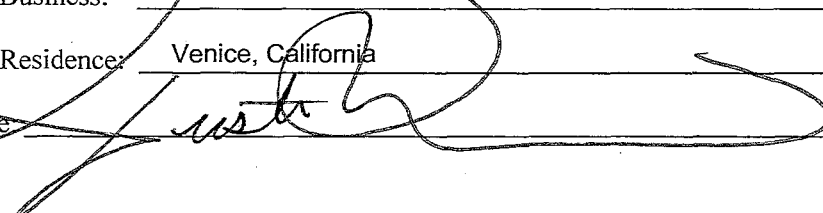
Title:     President    

Business Address:     22118 S. Vermont Ave. Torrance, CA 90502    

Place of Business:     22118 S. Vermont Ave. Torrance, CA 90502    

Place of Residence:     Venice, California    

Signature



## BIDDING DOCUMENTS

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### NOTES:

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

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

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

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Easyflow</u> Address: <u>13682 Lindamere Ln</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92128</u> Phone: <u>909-908-7300</u>	constructor	Lateral Lining	<del>\$675,00</del> \$675,500.00	ELBE	City of San Diego	
Name: <u>Terra West</u> Address: <u>1061 Tierra del Rey #204</u> City: <u>Chula Vista</u> State: <u>CA</u> Zip: <u>91910</u> Phone: <u>619-591-1007</u>	Designer	WPCP	\$500.00	SLBE	City of San Diego	
Name: <u>Western Dirt</u> Address: <u>970 W. Valley Parkway #661</u> City: <u>Escondido</u> State: <u>CA</u> Zip: <u>92025</u> Phone: <u>858-748-0009</u>	constructor	Lateral open-cut/concrete work	\$6175,678.00	ELBE	City of San Diego	

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

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

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Zebron</u> Address: <u>PO BOX 2874</u> City: <u>Newport Beach</u> State: <u>CA</u> Zip: <u>96659</u> Phone: <u>714-632-6690</u>	<u>constructor</u>	<u>Manhole Rehab</u>	<u>\$86,925.00</u>	<u>OBE</u>		
Name: <u>Piperin Corp</u> Address: <u>PO BOX 907</u> City: <u>San Marcos</u> State: <u>CA</u> Zip: <u>92079</u> Phone: <u>760-510-6747</u>	<u>Constructor</u>	<u>Mainline Point repairs/manholes/des</u>	<u>\$204,550.00</u>	<u>SLBE</u>	<u>City of San Diego</u>	
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

**BIDDING DOCUMENTS**

**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

The Bidder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

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

① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:

- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

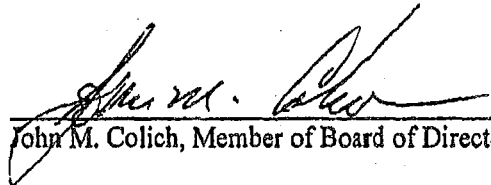


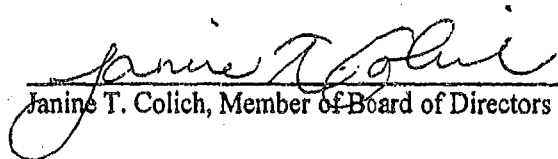
BOARD OF DIRECTORS RESOLUTION  
SOUTHWEST PIPELINE AND TRENCHLESS, CORP.  
January 5, 2012

The undersigned being all of the members of the Board of Directors of Southwest Pipeline and Trenchless Corp., a California Corporation, certify that the Bylaws of the corporation authorize the directors to act by unanimous consent. Pursuant to Section 307 (b) of the California General Corporation Law and the Bylaws of the corporation, the undersigned acknowledges their continuing consent to adoption of the following resolution as the act of the Board of Directors of the Corporation

RESOLVED, that Justin P. Duchaineau is authorized as President/Treasurer pursuant to the Bylaws of the corporation to sign any and all contracts, bid bonds, performance bonds, payment bonds, and other pertinent documents of a nature, for and on behalf of Southwest Pipeline and Trenchless Corp. This resolution is effective on January 5, 2012 and will remain in full force and effect for pertinent documents signed hereafter.

RESOLVED, that Robert E. Bolger is authorized as Secretary pursuant to the Bylaws of the corporation to sign any and all contracts, bid bonds, performance bonds, payment bonds, and other pertinent documents of a nature, for and on behalf of Southwest Pipeline and Trenchless Corp. This resolution is effective on January 5, 2012 and will remain in full force and effect for pertinent documents signed hereafter.

  
\_\_\_\_\_  
John M. Colich, Member of Board of Directors

  
\_\_\_\_\_  
Janine T. Colich, Member of Board of Directors