

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: Cgiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633
F.Marquez/BD/egz



CONTRACT DOCUMENTS

FOR

PIPELINE REHABILITATION Y-1

VOLUME 1 OF 2

BID NO.: _____ **K-13-1098-DBB-3**
SAP NO. (WBS/IO/CC): _____ **B-13094**
CLIENT DEPARTMENT: _____ **2011**
COUNCIL DISTRICT: _____ **1**
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
JULY 10, 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

6/4/13

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 Y-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 project proposes to rehabilitate 41,846 LF (7.93 miles) of existing 8” and 10” sewer main and laterals, including rehabilitation or replacement of manholes, installation of new cleanouts, sewer laterals, and pipeline point repairs. Related work will include best management practices (BMP’s) for erosion control and storm drain inlet protection, curb ramps, roadway resurfacing and restoration of disturbed areas to their original condition.

2.1. The Work shall be performed in accordance with:

2.1.1. This Notice Inviting Bids.

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	5.1%
2. ELBE participation	10.2%
3. Total mandatory participation	15.3%

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 AM**, on **JUNE 18, 2013**.
- 5.2.** 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 **\$5,100,000**.

8. LOCATION OF WORK: See the Location Map attached in Appendix D.

9. CONTRACT TIME: The Contract Time for completion of the Work shall be **280 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 classifications for this contract:

Option	Classifications
1	CLASS A
2	CLASS C34
3	CLASS C42

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 1200, 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.
- 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
City Standard Drawings - Updates Approved For Use (when specified)*	Varies	Varies

Title	Edition	Document Number
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: http://www.sandiego.gov/publicworks/edocref/index.shtml		

- 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-responsive 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>

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
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 15 WORKING DAYS PRIOR TO BID OPENING	ALL BIDDERS	Proposed Substitution. See section 4-1.6.
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SLBE Good Faith Efforts Documentation
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA60 – List of Work Made Available
11.	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.
12.	WITHIN 5 WORKING DAYS OF BID OPENING.	3 APPARENT LOW BIDDERS	Contractor’s Experience and Past Project Documentation. See Section 500.
13.	WITHIN 5 WORKING DAYS OF BID OPENING.	3 APPARENT LOW BIDDERS	Manufacturer Certification per Section 500-1.1.2.1
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Phased Funding Schedule Agreement (when required)

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Pre-Award Schedule (Phased Funded Contracts Only)
16.	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
17.	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"> • Joint Venture Agreement • Joint Venture License
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
20.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
21.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
22.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
23.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
24.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

CONTRACT FORMS AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and Southwest Pipeline & Trenchless Corp, herein called "Contractor" for construction of Pipeline Rehabilitation Y-1; Bid No. K-13-1098-DBB-3; in the amount of Three Million Thirty-One Thousand One Hundred Sixteen Dollars and 15/100(\$3,031,116.15), which is comprised of the Base Bid only.

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 Y-1 on file in the office of the Public Works Department as Document No. B-13094, 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 Y-1, Bid Number K-13-1098-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 _____ authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By Tony Heinrichs

By [Signature]

Print Name: _____
Tony Heinrichs, Director, Department of Public Works

Print Name: Ray Patrucci
Deputy City Attorney

Date: 9/20/13

Date: 9/23/13

CONTRACTOR

By [Signature]

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

Title: _____

Date: 8/7/13

City of San Diego License No.: 32003006118

State Contractor's License No.: 773862

CONTRACT ATTACHMENT PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

~~Pipeline Rehabilitation Y-1~~ Southwest Pipeline and 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 Thirty-One Thousand One Hundred Sixteen Dollars and 15/100(\$3,031,116.15)**, for the faithful performance of the annexed contract, and in the sum of **Three Million Thirty-One Thousand One Hundred Sixteen Dollars and 15/100(\$3,031,116.15)**, for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **Pipeline Rehabilitation Y-1**, Bid Number **K-13-1098-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

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

Dated August 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

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 \$ 24,952.00

Bond No. 024048921

Approved:

By 

Tony Heinrichs, Director, Department of Public Works

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California)
) ss
County of Los Angeles)

On AUG - 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 Casually Insurance Company

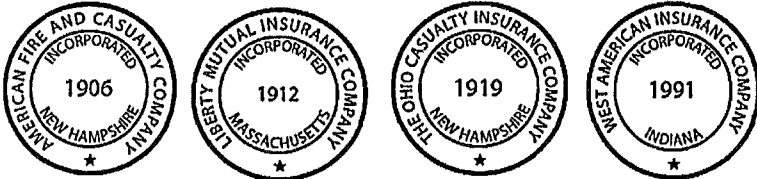
Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casually 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:

Prindpal Name: Southwest Pipeline and Trenchless Corp.
Obligee Name: City of San Diego
Surety Bond Number: 024048921 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 Casually 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 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 Casually 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.

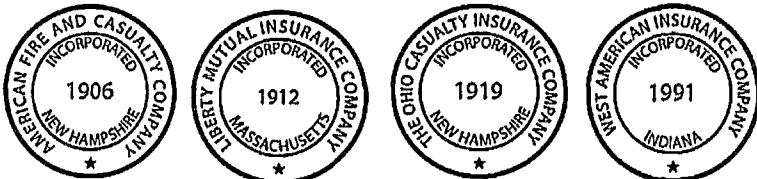
ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as 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 Casually 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 5th day of August, 2013.



By: David M. Carey

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

PROJECT TITLE: Pipeline Rehabilitation Y-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 c) of the policy as outlined.

Signed 

Printed Name

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

Title ✓

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: Pipeline Rehabilitation Y-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 P. DUCHAINEAU
PRESIDENT/TREASURER/RMO
SOUTHWEST PIPELINE AND
TRENCHLESS CORP.**

Title

CONTRACTOR CERTIFICATION

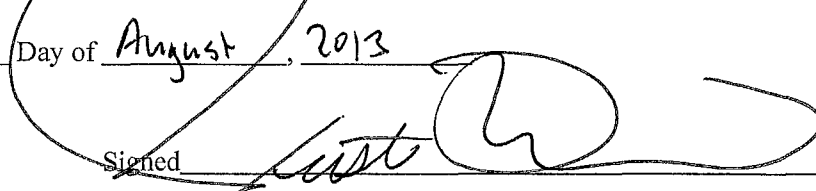
CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: Pipeline Rehabilitation Y-1

I declare under penalty of perjury that I am authorized to make this certification on behalf of SOUTHWEST PIPELINE AND 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 7th Day of August, 2013

Signed 

USAMIAN OUI T MITOUL
CND PONTI P. SOUTHWEST PIPELINE
CND PONTI P. SOUTHWEST PIPELINE
SOUTHWEST PIPELINE AND TRENCHLESS CORP. Printed Name JUSTIN P. DUCHAINEAU
PRESIDENT/TREASURER/RMO
SOUTHWEST PIPELINE AND
TRENCHLESS CORP.

Title _____

PHASED FUNDING SCHEDULE AGREEMENT

BID NUMBER: K-13-1098-DBB-3

CONTRACT OR TASK TITLE: PIPELINE REHABILITATION Y-1

CONTRACTOR: SOUTHWEST PIPELINE & TRENCHLESS CORP.

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Project mobilization, site preparation, point repairs, pipe and lateral rehabilitation and appurtenances	NTP	08/15/2014	\$2,576,448.00
2	Lateral rehabilitation, curb ramps, surface restorations	08/16/2014	Project Completion	\$454,668.15
Total				\$3,031,116.15

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: Southwest Pipeline & Trenchless Corp.

By:

WBR
Project Manager &
E&CP / Public Works Department

By:

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

Date:

8/16/13

Date:

8/12/13

- END OF PHASE FUNDING SCHEDULE -

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 Y-1

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-13-1098-DBB-3**; SAP No. (WBS/IO/CC) **B-13094**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

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

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

Dated this _____ DAY OF _____, _____.

_____ Contractor

by

ATTEST:

State of _____

County of _____

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

Notary Public in and for said County and State

SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

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 Supplement, 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 30% 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.

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 less than 15 Working Days prior to Bid due date** 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 Supplement, ADD the following:

Do not work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed here:

- a) Work within one block near shopping establishments on Torrey Pines Rd and Pearl Street in La Jolla from Thanksgiving Day to New Years Day.
- b) Work on and West of La Jolla Blvd from Memorial Day to Labor Day.
- c) Unpaved areas during bird breeding season (Feb 01 thru Sept 15)

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.

7-10.2.2 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:

1. La Jolla Boulevard between Pearl St. and Marine St.

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 ¾".

7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT. To the City Supplement, 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.

7-16.2.2 Weekly Updates Recipients. Submit a weekly correspondence with updates, traffic control issues and locations, lane closures, and any other pertinent information (with additional contact names given during award process) to the following recipients:

Wendy Gamboa, Senior Engineer, WGamboa@san Diego.gov

Francis Marquez, Project Engineer, FMarquez@san Diego.gov

Resident Engineer, To be Determined

7-17 NEWSLETTER. To the City Supplement, ADD the following:

You must provide the information for work in the La Jolla Community.

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 Supplement, 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 209 – STREET LIGHTING AND TRAFFIC SIGNAL MATERIALS

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

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

SECTION 300 – EARTHWORK

300-1.4 **Payment.** To the City Supplement, 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 Crushed Aggregate Base in accordance with 200-2.2, “Crushed 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 Crushed Aggregate Base in accordance with 200-2.2, “Crush 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.

302-5.1.1 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 Supplement, CORRECT certain section numbering as follows:

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

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

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

Within 5 Working Days of the Bid Opening date, the three apparent low bidders shall submit the following:

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

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.

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

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

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, 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"

500-1.6 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.

- a) 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.
- b) 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.
- c) The liner shall be extended sufficiently to create a water tight seal at the main and the liner interface.
- d) 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.”

500-4 **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 Supplement, 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

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 Y-1, Project number WBS #B-13094, as referenced in the Contract Appendix. The Contractor 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

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

OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121
SACRAMENTO, CA 95814

2012108246

PROJECT NO.: WBS #B-13094 PROJECT TITLE: Pipeline Rehabilitation Y-1

PROJECT LOCATION-SPECIFIC: General area in proximity to and portions of: Via Mallorca, Via Alicante, Angell Av, Bajer St, Arnoldson Av, La Jolla Scenic Dr North, Woodford Dr, Revelle Dr, La Jolla Vista Dr, Gobat Av, Mott St, Nansen Av, Lamas St, Quidde Av, Quidde Ct, Bloch St, Soderblom Av, Soderblom Ct, Bothe Av, Barkla St, Stresemann St, San Clemente Tr, Schenley Tr, Curie Pl, Bluebird Ln, Soledad Av, Sierra Mar Dr, Lookout Dr, Caminito Marzella, Caminito Capa, Via Don Benito, Avenida Andorra, King Arthur Ct, Romero Dr, Fairway Rd, Mimulus Wy, Carrizo Dr, Country Club Dr, West Muirlands Dr, Muirlands Dr, Pearl St, Miramar Av, Marine St, La Jolla Bl, Fern Gn, Vista del Mar, Westbourne St, Genter St, Fay Av, Nautilus St, and Bonair St. The project is located within the La Jolla and University City 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 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.

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 (Wendy Gamboa, 619-235-1971), 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 of Jeff Szymanski, Senior Planner

DATE: 10/11/12

CHECK ONE:

- (X) SIGNED BY LEAD AGENCY
() SIGNED BY APPLICANT

DATE RECEIVED FOR FILING WITH COUNTY CLERK OR OPR:

RECEIVED

OCT 16 2012

STATE CLEARING HOUSE

APPENDIX B
FIRE HYDRANT METER PROGRAM

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

1. **PURPOSE**

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

2. **AUTHORITY**

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

Reference

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

3. **DEFINITIONS**

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

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

4. **POLICY**

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

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

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

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

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

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

Process for Issuance

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

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

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

4.7 Relocation of Existing Fire Hydrant Meters

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

4.8 Disconnection of Fire Hydrant Meter

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

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for removal of the meter.

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

5. **EXCEPTIONS**

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

6. **MOBILE METER**

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

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

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

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

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

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

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

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7. FEE AND DEPOSIT SCHEDULES

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

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

8. UNAUTHORIZED USE OF WATER FROM A HYDRANT

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

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

**Larry Gardner
Water Department Director**

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

APPENDIX

Administering Division: Customer Support Division

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

Distribution: DI Manual Holders



Application For Fire Hydrant Meter

(EXHIBIT A)

For Office Use Only

NS Rec:	Fac #:
Date:	By:

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

Application Date: Requested Install Date:

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

Specific Use of Water:

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

Estimated Duration of Meter Use: Check Box if Reclaimed Water

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip Code:	Phone: ()
*Business License #:		*Contractor License #:	
<i>*A copy of the Contractor's License and/or Business License is required at the time of meter issuance.</i>			
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:
<i>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.</i>			

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-xxx.

Sincerely,

City of San Diego Water Department



Fire Hydrant Meter Relocate/Removal Request

(EXHIBIT D)

For Office Use Only

NS Req:	FHM Fac #:
Date:	By:

Date:

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

Meter Information

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

Company Information

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

Fire Hydrant Meter Removal Request

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

For Office Use Only

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

FHM Relocate_Removal Form

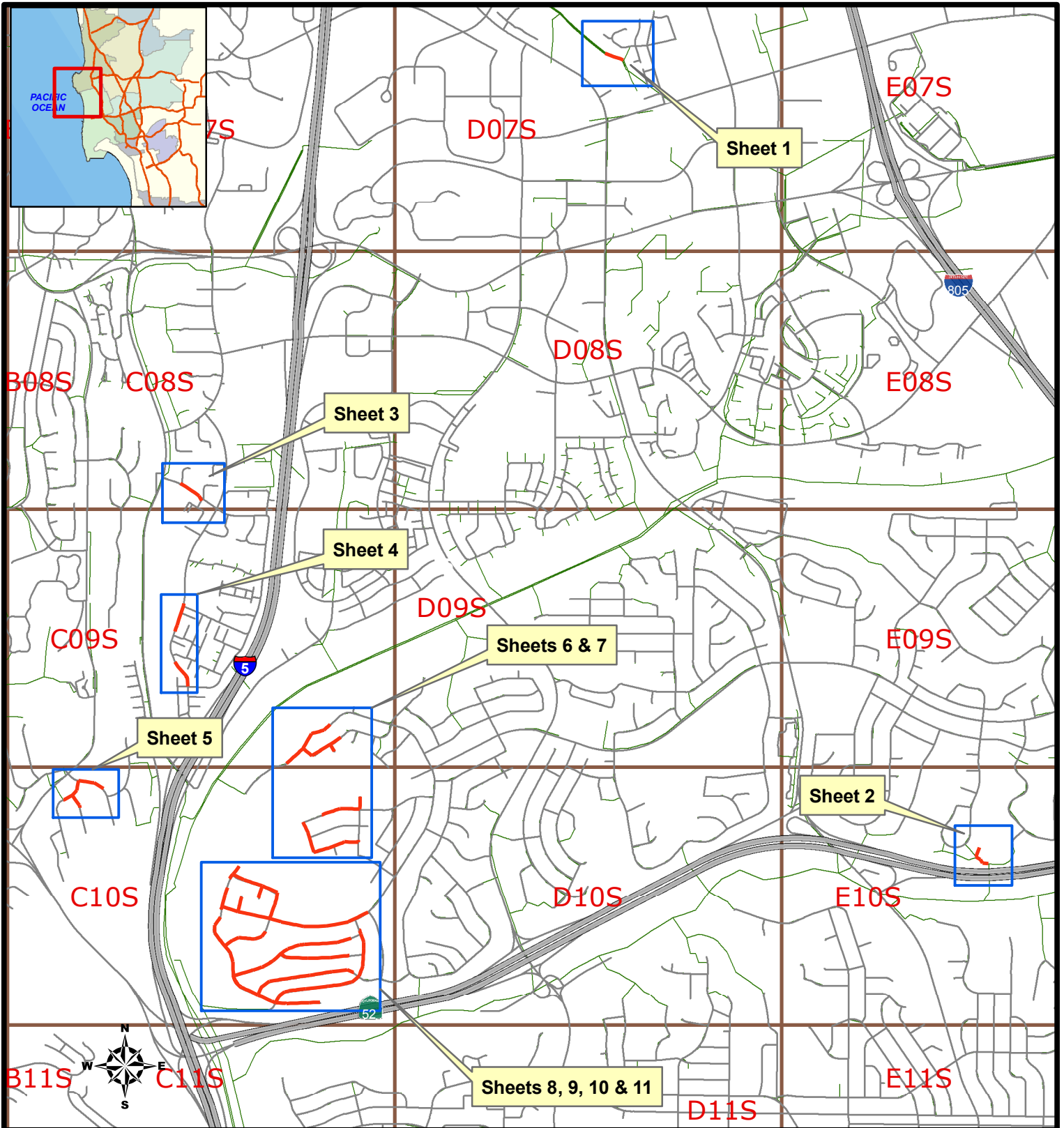
FHM App Created: 11/2/00-htp

APPENDIX C
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						
CHANGE ORDERS											
Change Order 1			4,890								
Items 1-4					\$11,250.00						
Item 5-Deduct Bid Item 3		LF	120	-\$53.00	(\$6,360.00)						
Change Order 2			160,480								
Items 1-3					\$95,000.00						
Item 4 Deduct Bid Item 1		LF	380	-\$340.00	(\$12,920.00)						
Item 5-Encrease bid Item 9		LF	8	\$9,800.00	\$78,400.00						
Change Order 3 (Close Out)			-121,500								
Item 1 Deduct Bid Item 3			53	-500.00	(\$26,500.00)						
Item 2 Deduct Bid Item 4		LS	-1	45,000.00	(\$45,000.00)						
Items 3-9			1	-50,500.00	(\$50,500.00)						
SUMMARY								Total This	\$ -	Total Billed	\$0.00
A. Original Contract Amount						Retention and/or Escrow Payment Schedule					
B. Approved Change Order 1 Thru 3						Total Retention Required as of this billing					
C. Total Authorized Amount (A+B)						Previous Retention Withheld in PO or in Escrow					
D. Total Billed to Date						Add'l Amt to Withhold in PO/Transfer in Escrow:					
E. Less Total Retention (5% of D)						Amt to Release to Contractor from PO/Escrow:					
F. Less Total Previous Payments											
G. Payment Due Less Retention						Contractor Signature and Date:					
H. Remaining Authorized Amount											

APPENDIX D

LOCATION MAPS AND CONSTRUCTION NOTES



SENIOR ENGINEER
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JIM HAGHGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1 KEYMAP A

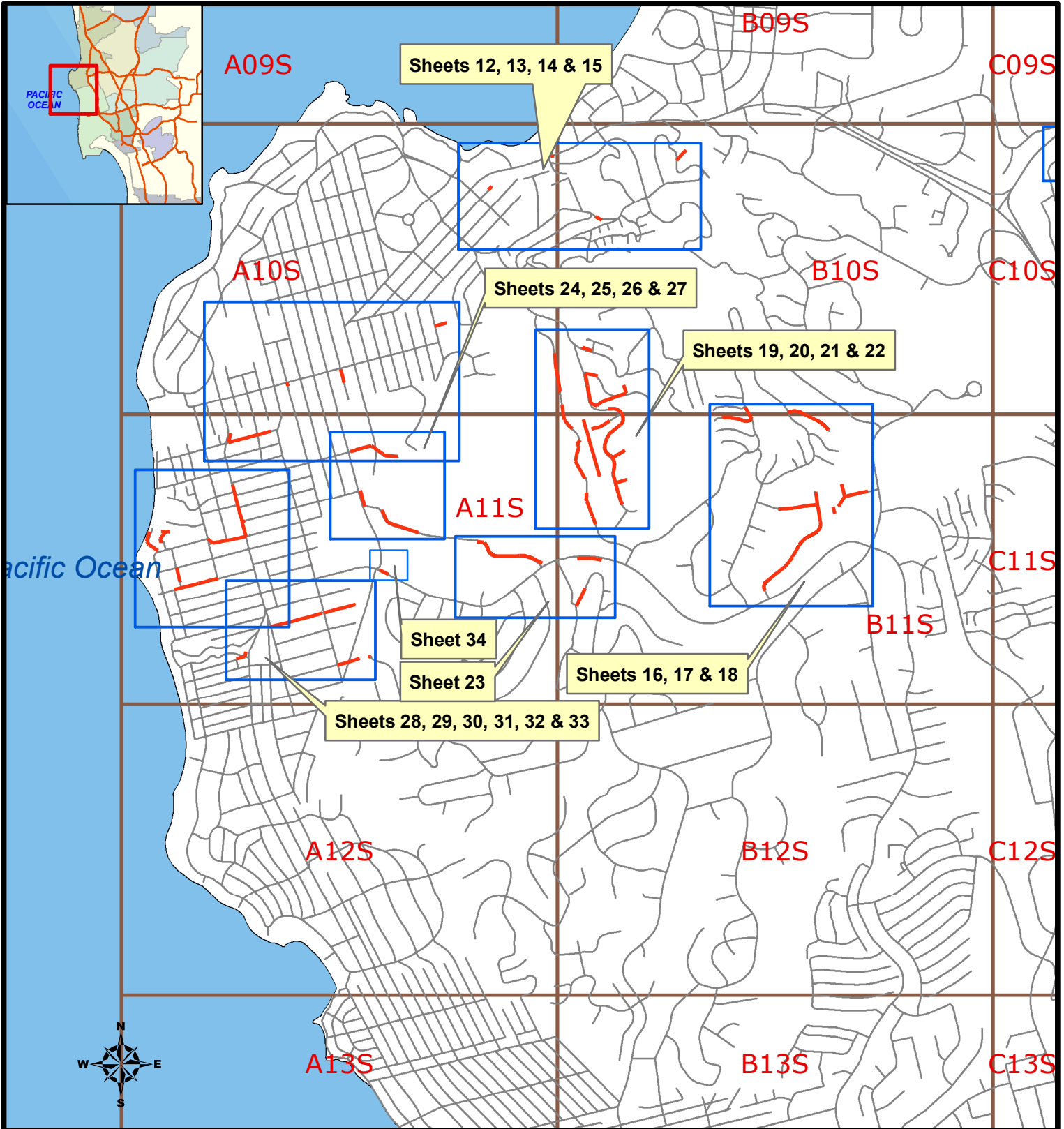


Legend **WBS: B-13094**

— Pipeline_Rehab_Y-1 □ Fieldbook Index

🛣️ Freeway





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JIM HAGHGOUY
 PROJECT ENGINEER
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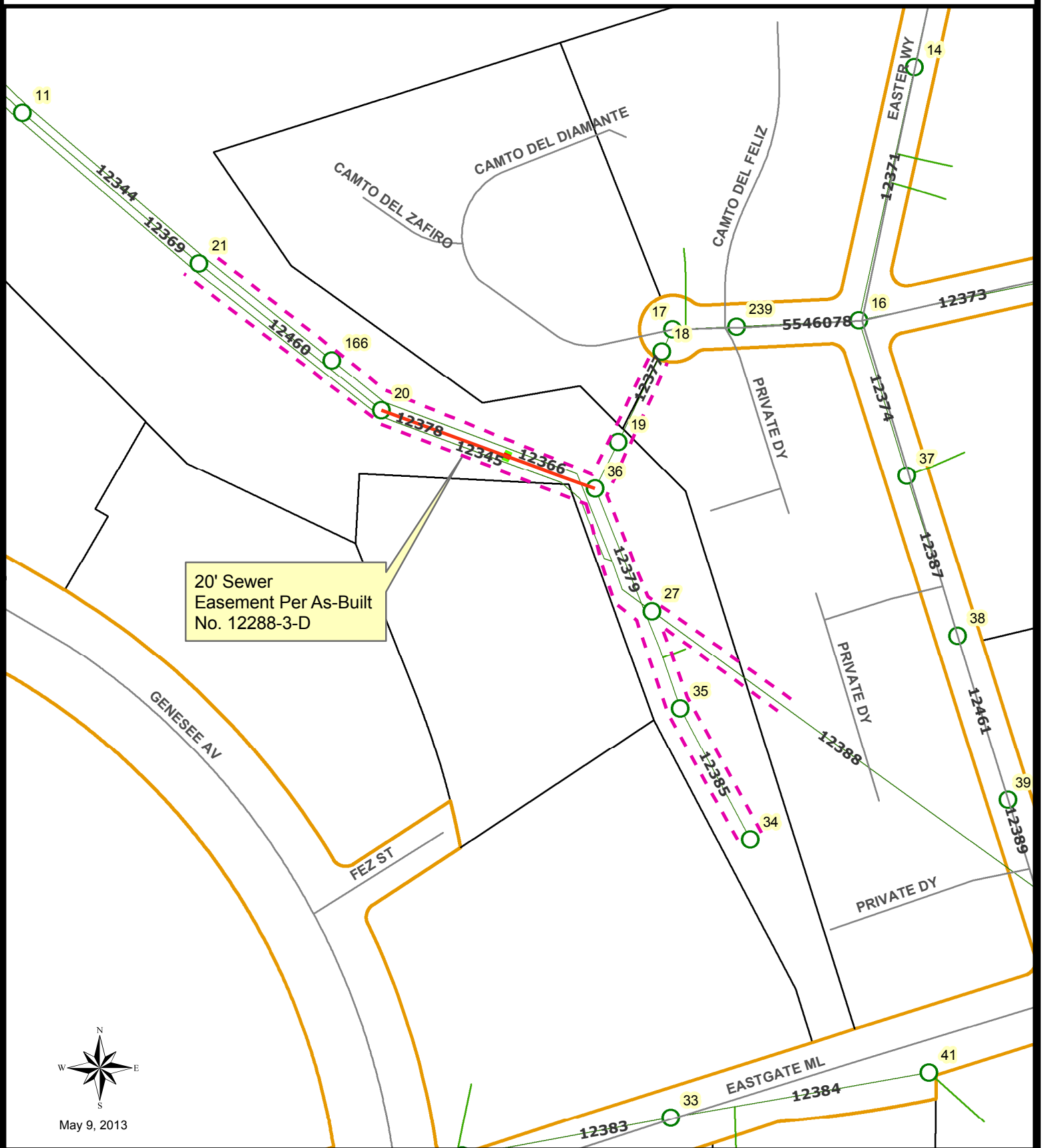
SEWER REHABILITATION PROJECT Y-1 KEYMAP B

WBS: B-13094

Legend

— Pipeline_Rehab_Y-1 □ Fieldbook Index





May 9, 2013

SEWER REHABILITATION PROJECT Y-1

Legend

- Manhole
- Mains
- Laterals
- Cleanouts
- MH_Rehab_Y-1
- Pipeline_Rehab_Y-1
- Point_Repairs
- ROW
- Easement
- MH_Replacement_Y-1
- 143 Manhole ID
- 12345 Facility Sequence Number

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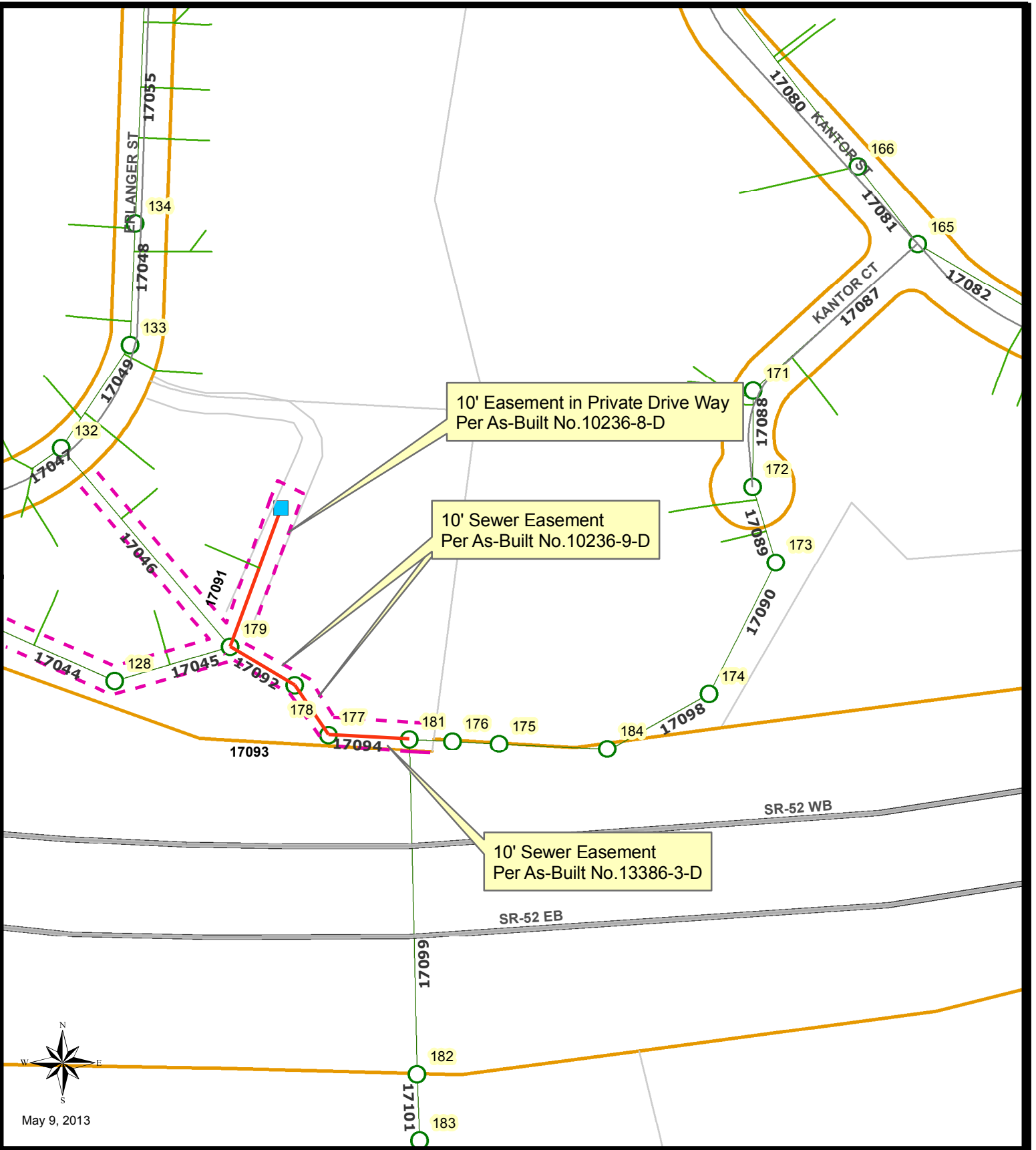
SHEET NO. 1

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SEWER REHABILITATION PROJECT Y-1

<p>Legend</p> <ul style="list-style-type: none"> ○ Manhole ● MH_Replacement_Y-1 ● MH_Rehab_Y-1 — Mains — Lateral — Pipeline_Rehab_Y-1 ■ Cleanouts — Easement — ROW ▬ Point_Repairs 	<table border="0"> <tr> <td style="border: 1px solid black; padding: 2px;">143</td> <td>Manhole ID</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">12345</td> <td>Facility Sequence Number</td> </tr> </table>	143	Manhole ID	12345	Facility Sequence Number
143	Manhole ID				
12345	Facility Sequence Number				

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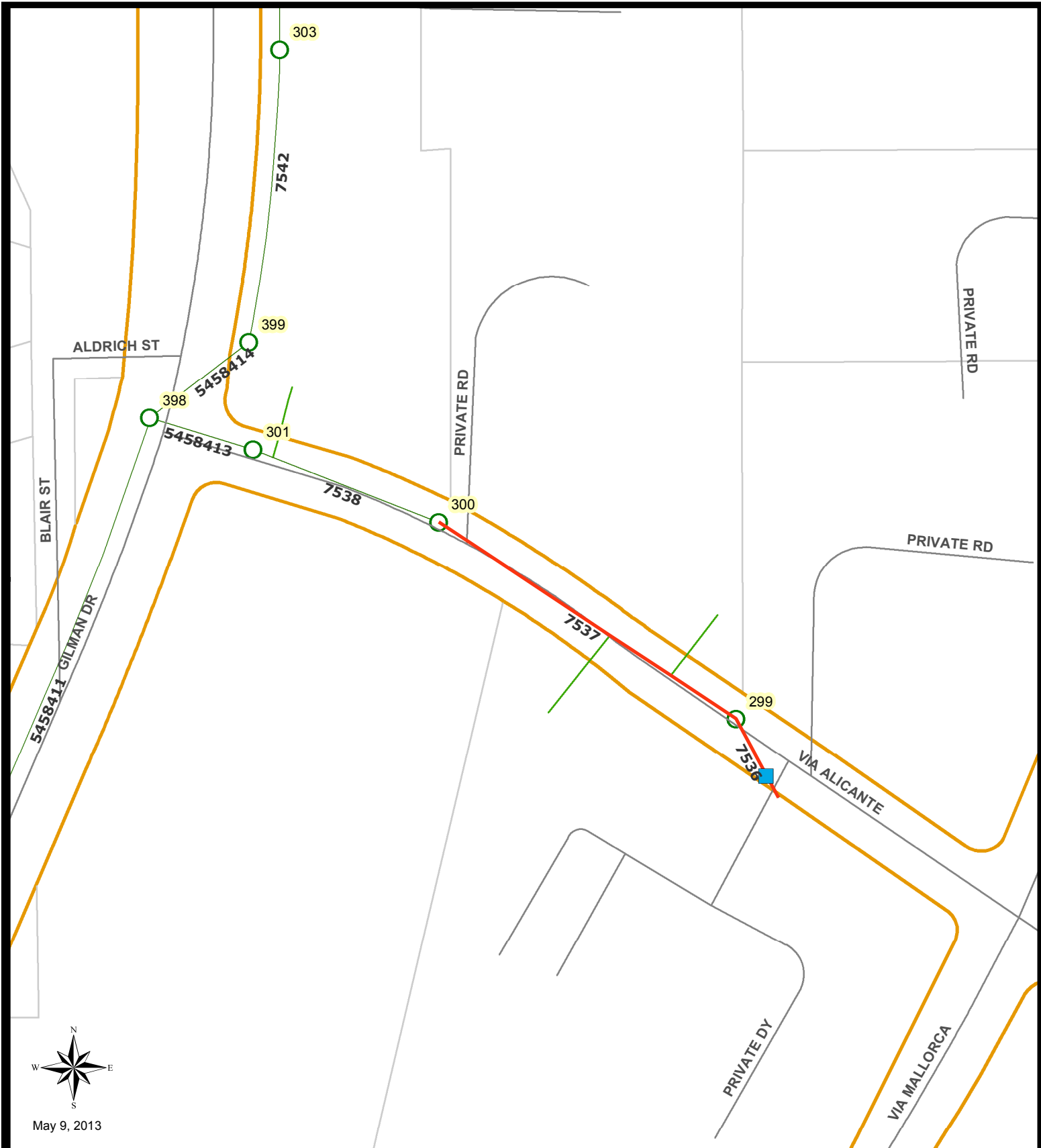
PROJECT ENGINEER
FRANCIS MARQUEZ

WBS: B-13094

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SHEET NO. 2



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FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

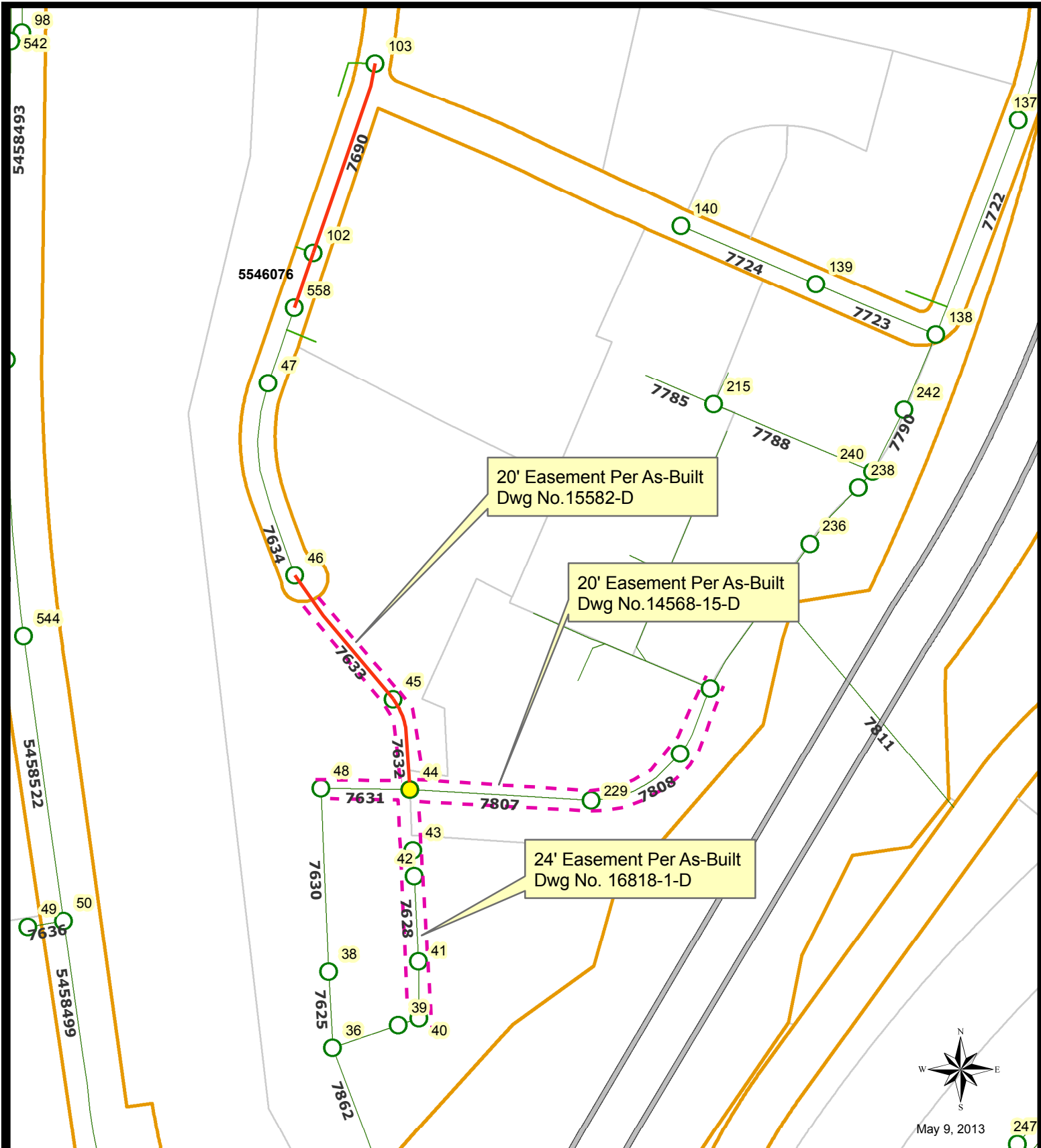
- Manhole
- MH_Replacement_Y-1
- MH_Rehab_Y-1
- Cleanouts
- ROW
- Pipeline_Rehab_Y-1
- Point_Repairs
- Mains
- Laterals
- 143 Manhole ID
- 12345 Facility Sequence Number

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SEWER REHABILITATION PROJECT Y-1

Legend

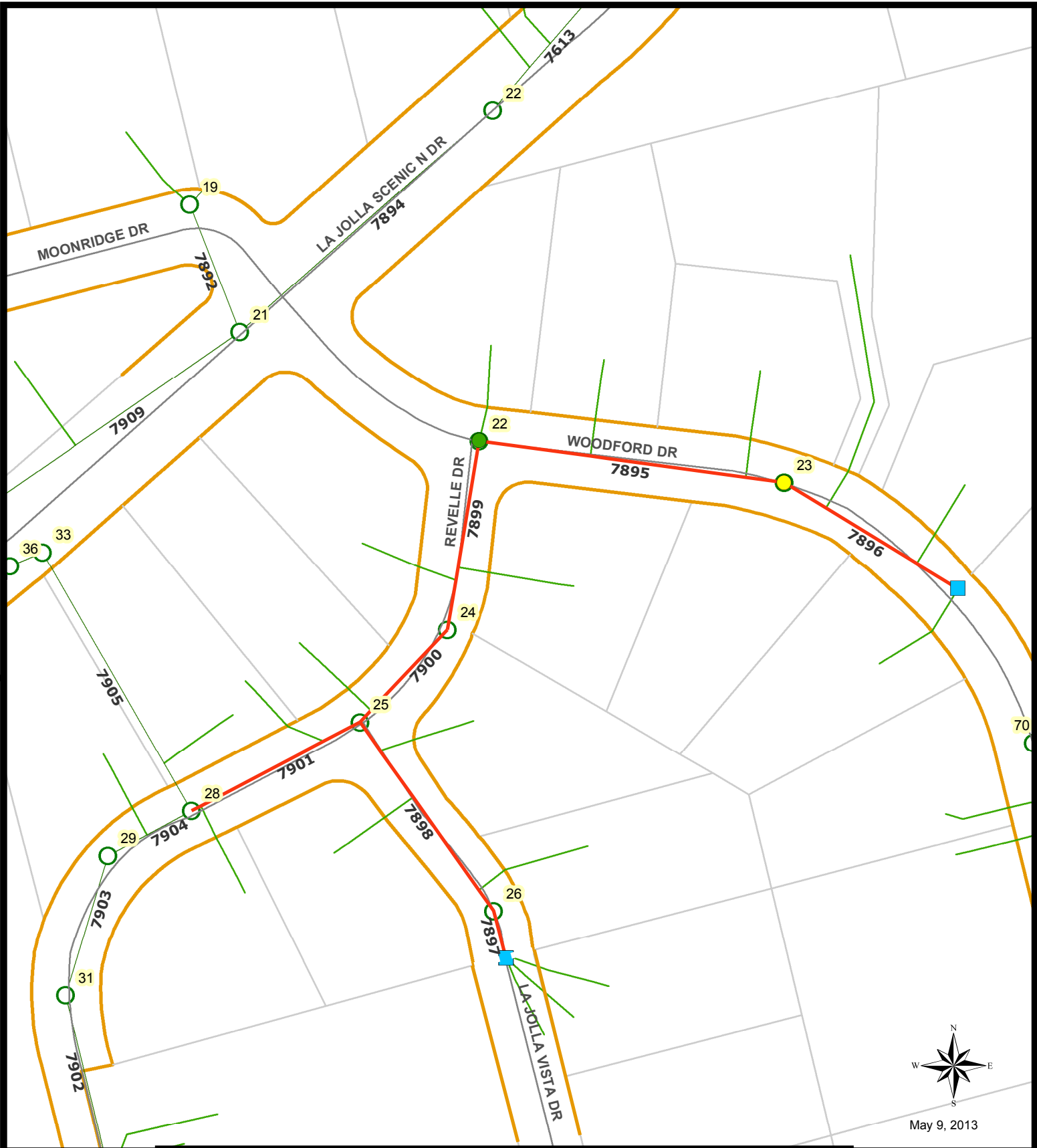
- Manhole
- Mains
- - - Easement
- MH_Rehab_Y-1
- MH_Replacement_Y-1
- Cleanouts
- Point_Repairs
- Pipeline_Rehab_Y-1
- Laterals
- ROW


143 Manhole ID
12345 Facility Sequence Number

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C09S

SHEET NO. 4

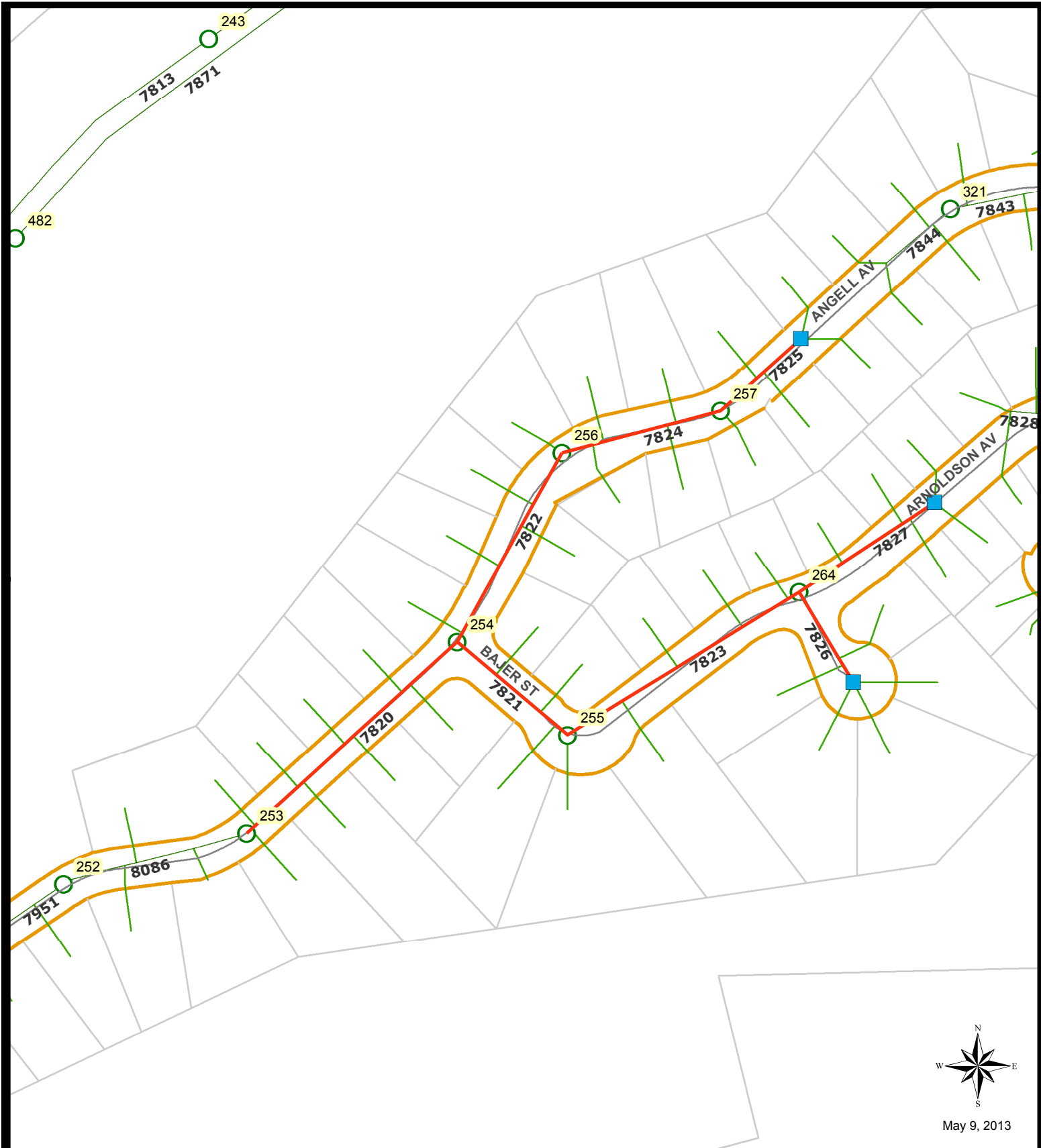



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JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend			
● MH_Replacement_Y-1	— Pipeline_Rehab_Y-1	143 Manhole ID	
● MH_Rehab_Y-1	— Point_Repairs	12345 Facility Sequence Number	
○ Manhole	— Laterals		
— Mains	— ROW		
■ Cleanouts			

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SEWER REHABILITATION PROJECT Y-1

Legend

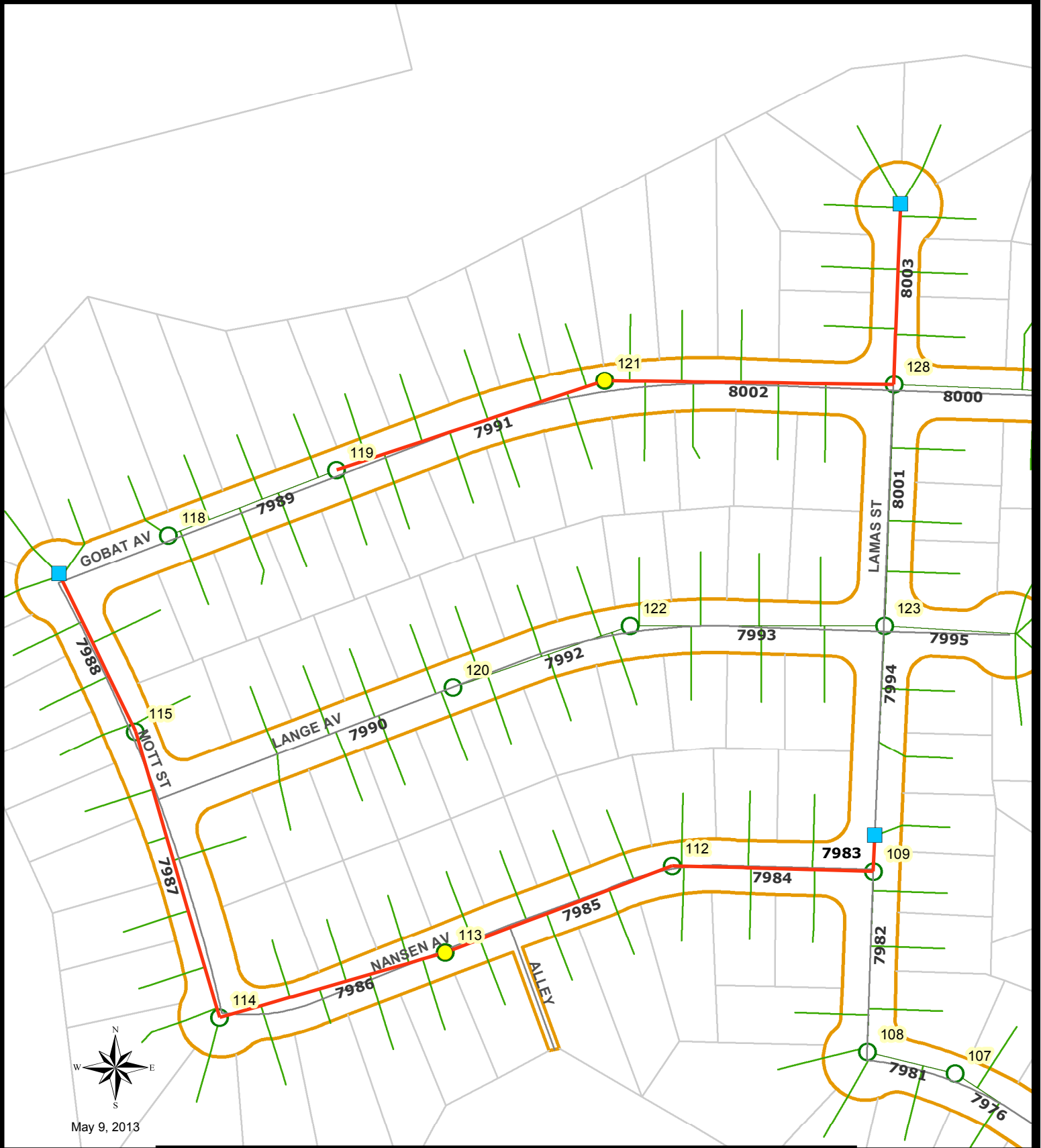
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|--------------------|--------------------------------|----------|
| Manhole | Pipeline_Rehab_Y-1 | Laterals |
| MH_Rehab_Y-1 | Point_Repairs | ROW |
| MH_Replacement_Y-1 | 143 Manhole ID | |
| Mains | 12345 Facility Sequence Number | |
| Cleanouts | | |

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SEWER REHABILITATION PROJECT Y-1

Legend

- Manhole
 - MH_Rehab_Y-1
 - MH_Replacement_Y-1
 - Cleanouts
 - Pipeline_Rehab_Y-1
 - Point_Repairs
 - ROW
 - Laterals
- 143 Manhole ID
12345 Facility Sequence Number



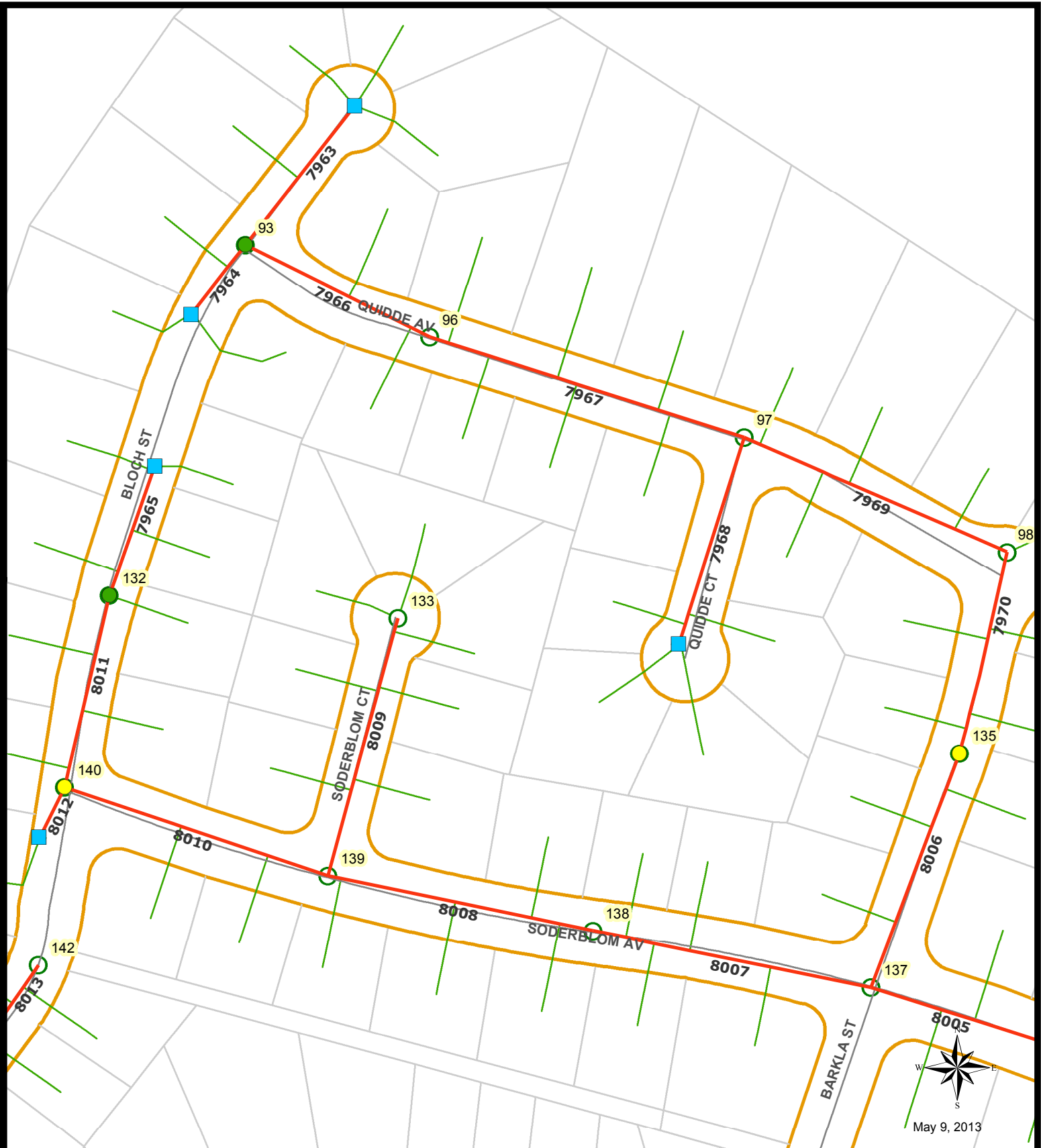
SENIOR ENGINEER
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JIM HAGGOUY
PROJECT ENGINEER
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SEWER REHABILITATION PROJECT Y-1

Legend

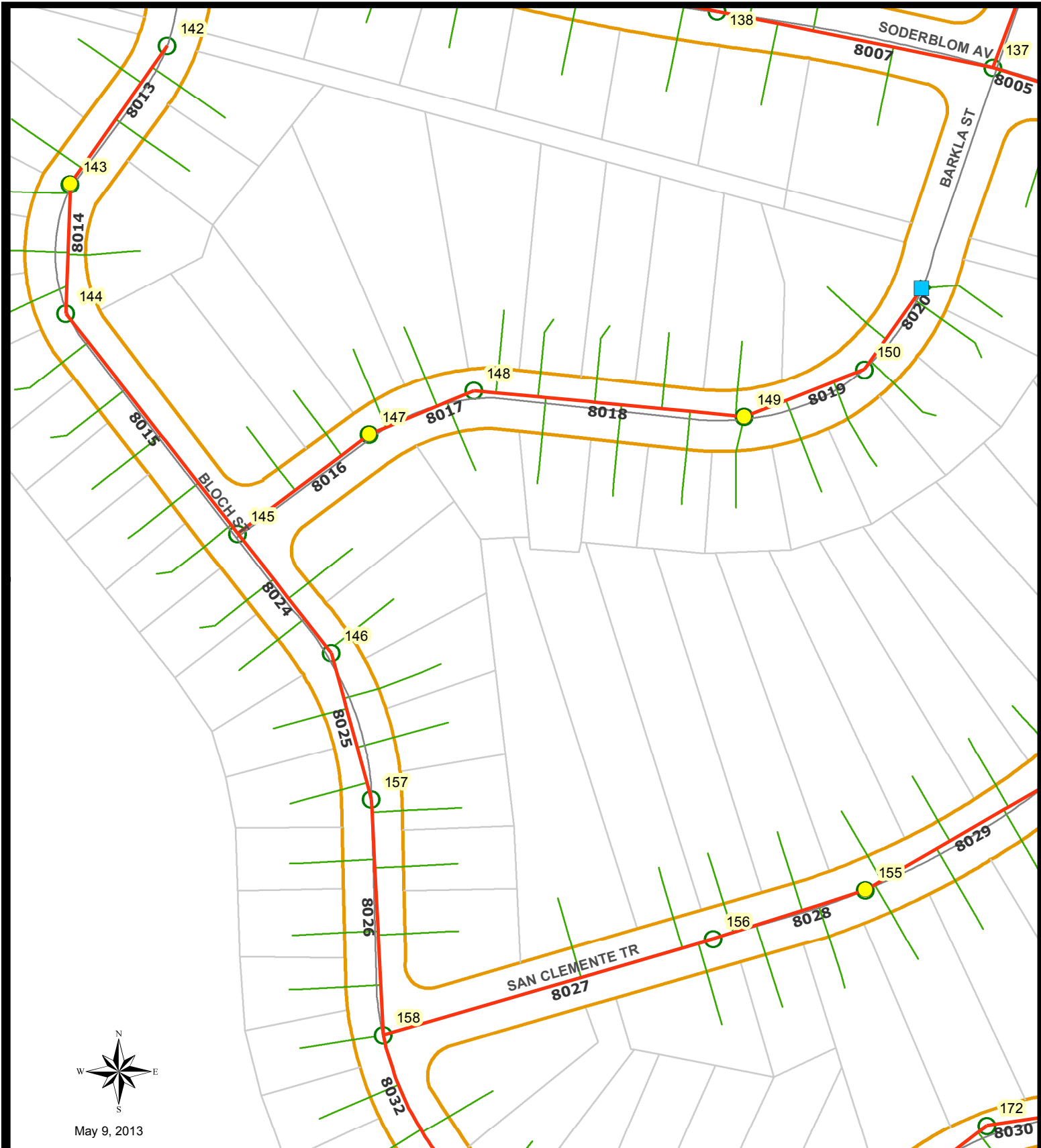
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|--|--------------------|--|--------------------|-------|--------------------------|
| | Manhole | | Pipeline_Rehab_Y-1 | 143 | Manhole ID |
| | MH_Rehab_Y-1 | | Point_Repairs | 12345 | Facility Sequence Number |
| | MH_Replacement_Y-1 | | Laterals | | |
| | Mains | | ROW | | |
| | Cleanouts | | | | |

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SEWER REHABILITATION PROJECT Y-1

Legend

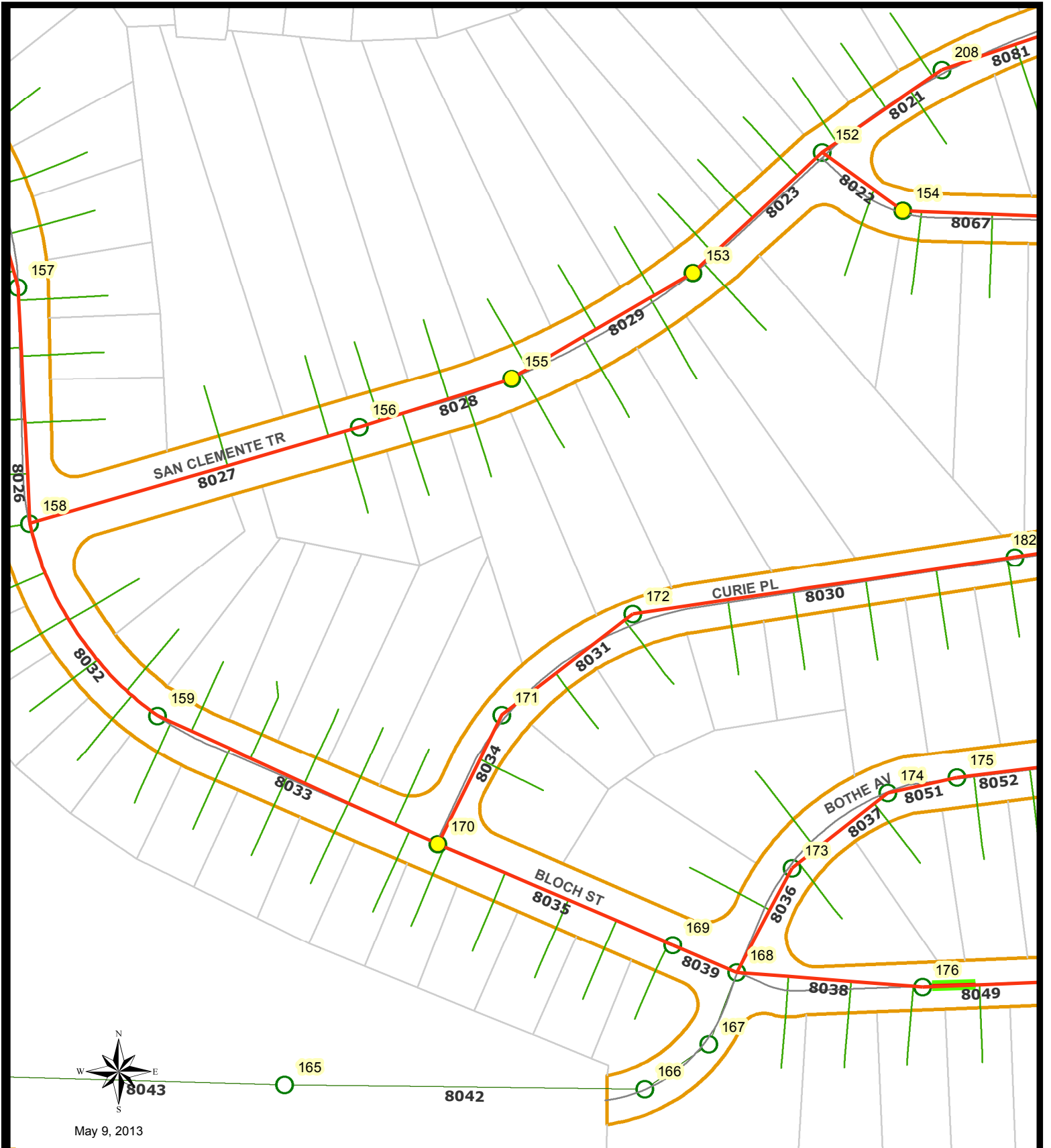
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|--|--------------------|--|--------------------|--|--------------------------|
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| | MH_Rehab_Y-1 | | Point_Repairs | | ROW |
| | MH_Replacement_Y-1 | | 143 | | Manhole ID |
| | Mains | | 12345 | | Facility Sequence Number |
| | Cleanouts | | | | |

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SEWER REHABILITATION PROJECT Y-1

Legend

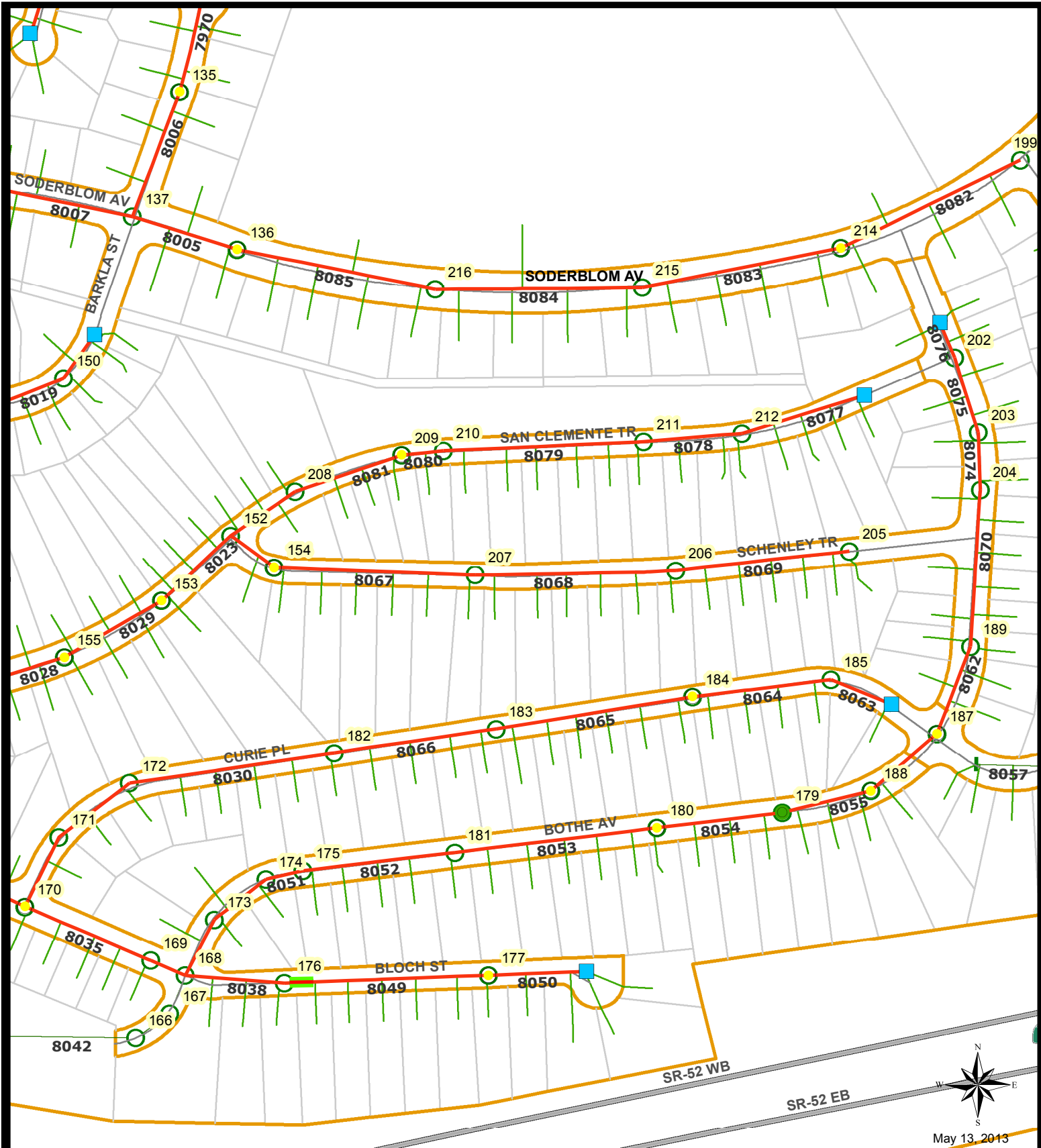
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| Manhole | Pipeline_Rehab_Y-1 | 143 Manhole ID |
| MH_Rehab_Y-1 | Point_Repairs | 12345 Facility Sequence Number |
| MH_Replacement_Y-1 | Laterals | |
| Mains | ROW | |
| Cleanouts | | |

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SEWER REHABILITATION PROJECT Y-1

Legend

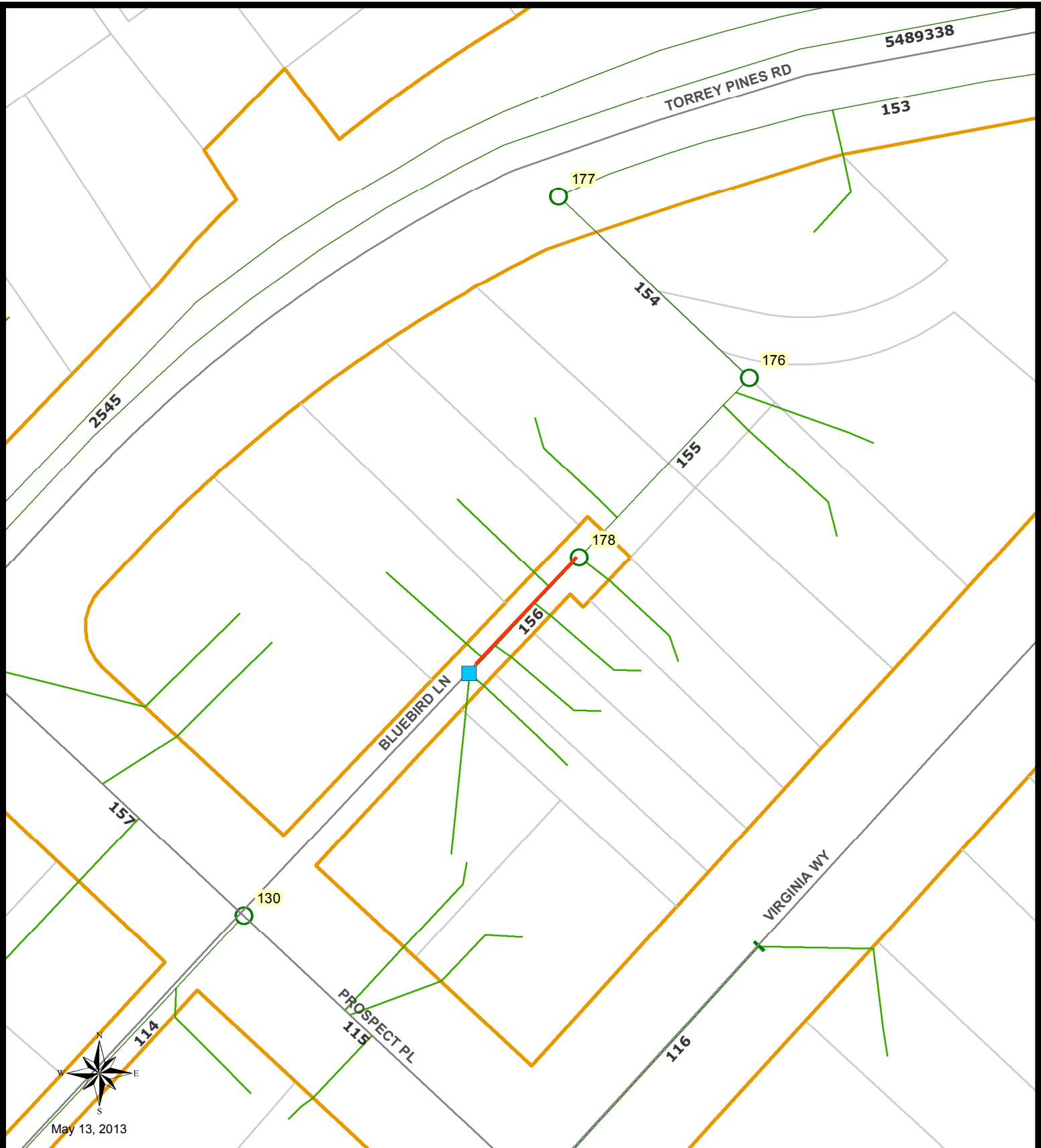
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| Manhole | Point_Repairs | 143 | Manhole ID |
| MH_Rehab_Y-1 | Pipeline_Rehab_Y-1 | 12345 | Facility Sequence Number |
| MH_Replacement_Y-1 | Mains | | |
| Cleanouts | Laterals | | |
| | ROW | | |

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SHEET NO. 11



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SEWER REHABILITATION PROJECT Y-1

Legend

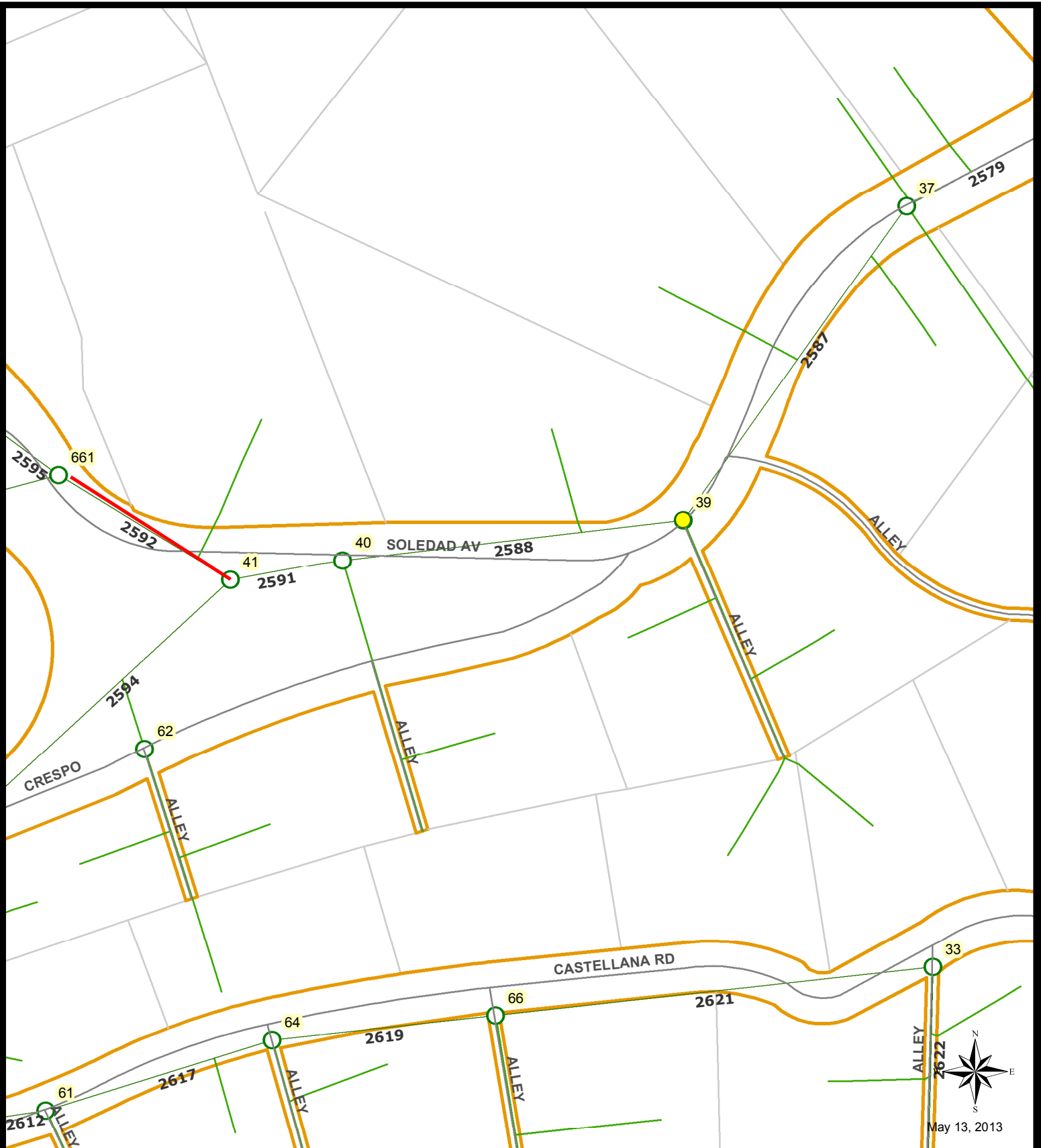
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|----------------------|-----------------|--------------------------------|
| ○ Manhole | — Mains | — Laterals |
| ● MH_Replacement_Y-1 | ■ Cleanouts | — Plugs |
| ● MH_Rehab_Y-1 | — Point_Repairs | — ROW |
| — Pipeline_Rehab_Y-1 | 143 Manhole ID | 12345 Facility Sequence Number |

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 PROJECT ENGINEER
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SEWER REHABILITATION PROJECT Y-1

Legend

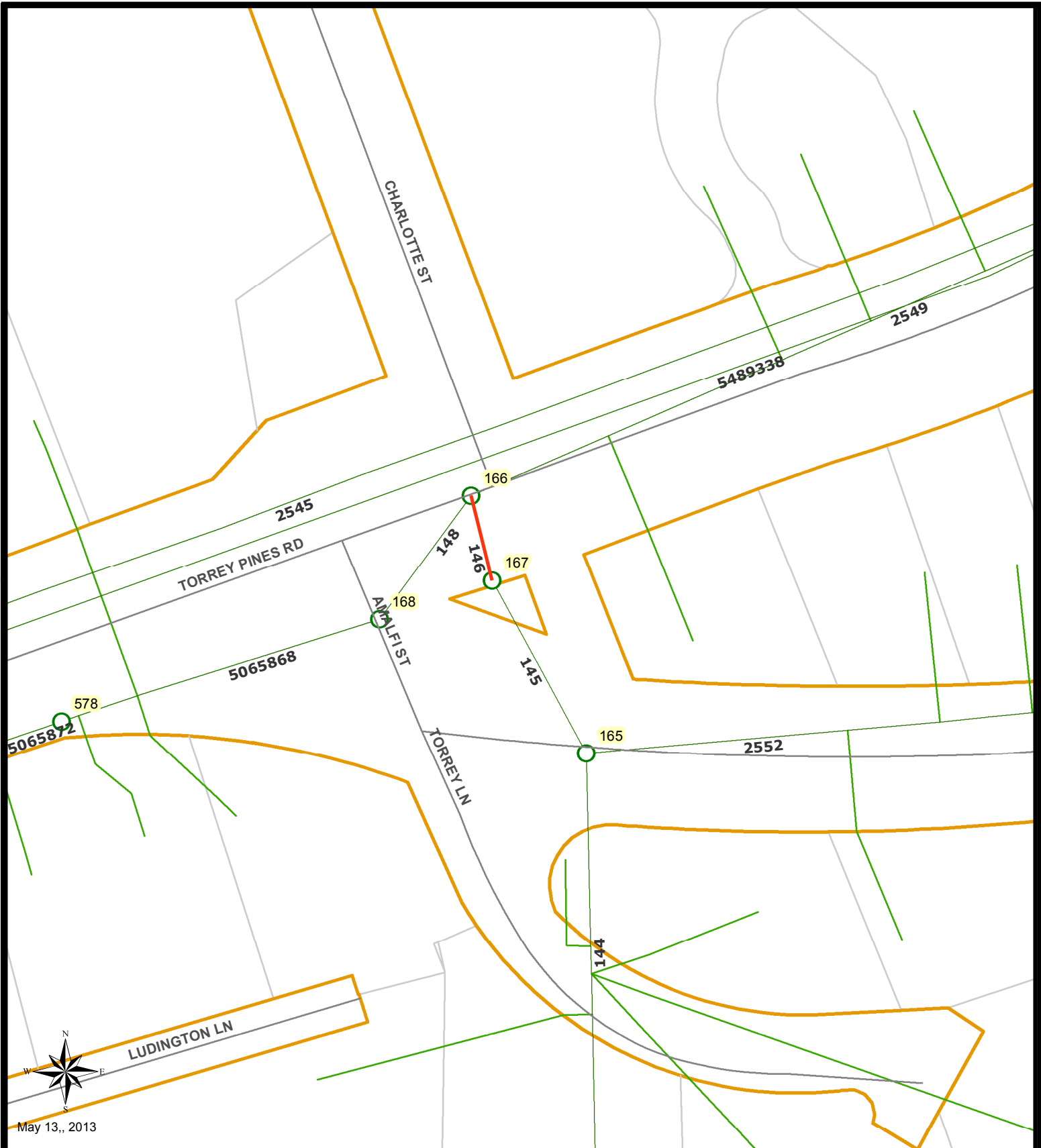
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| ● MH_Rehab_Y-1 | ■ Cleanouts | — Point_Repairs | |
| ● MH_Replacement_Y-1 | — Laterals | — ROW | |
| 12345 Facility Sequence Number | | | |

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SHEET NO. 13



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WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

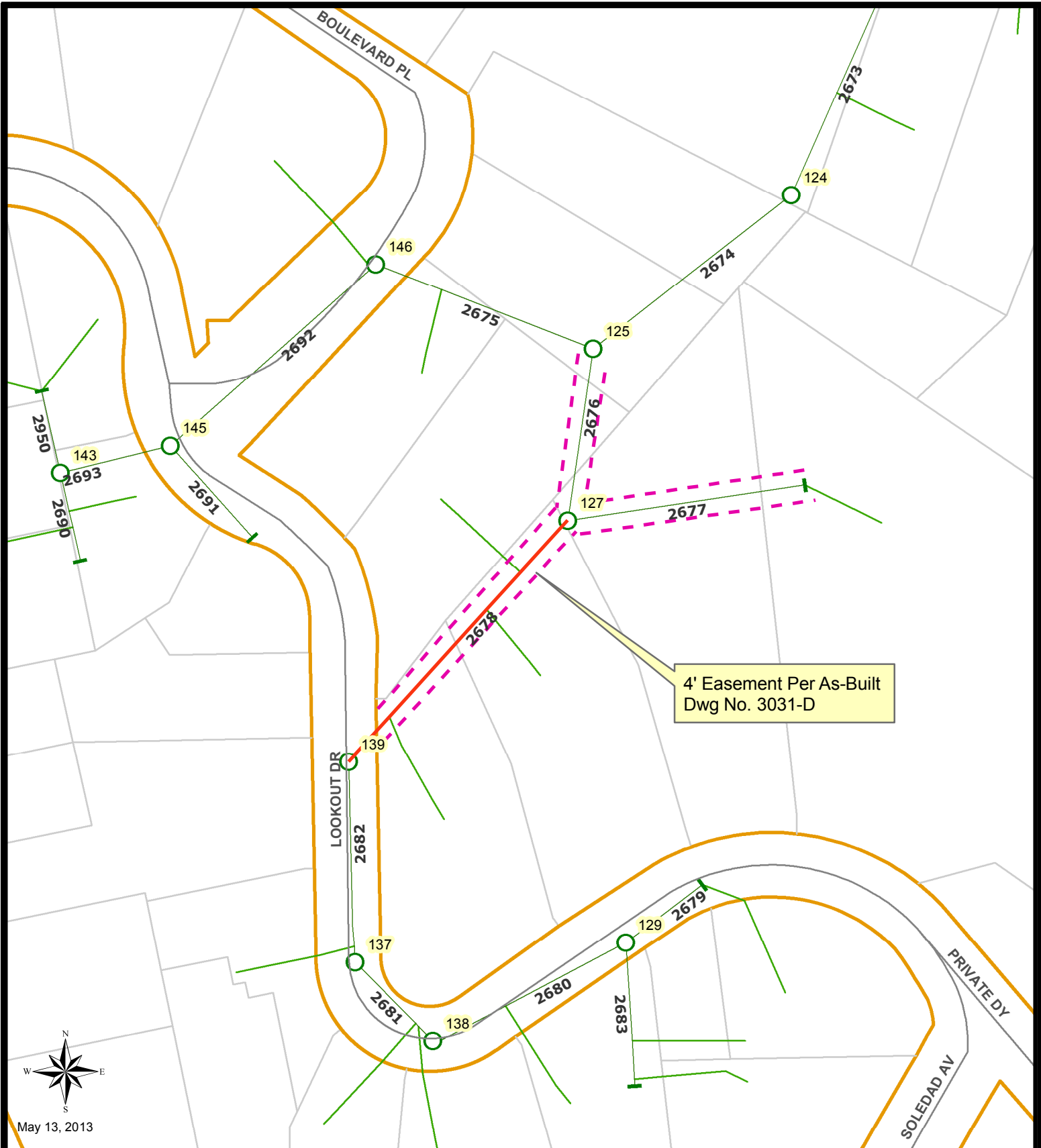
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| Manhole | Pipeline_Rehab_Y-1 | Laterals |
| MH_Rehab_Y-1 | Point_Repairs | ROW |
| MH_Replacement_Y-1 | 143 Manhole ID | 12345 Facility Sequence Number |
| Mains | | |
| Cleanouts | | |

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FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

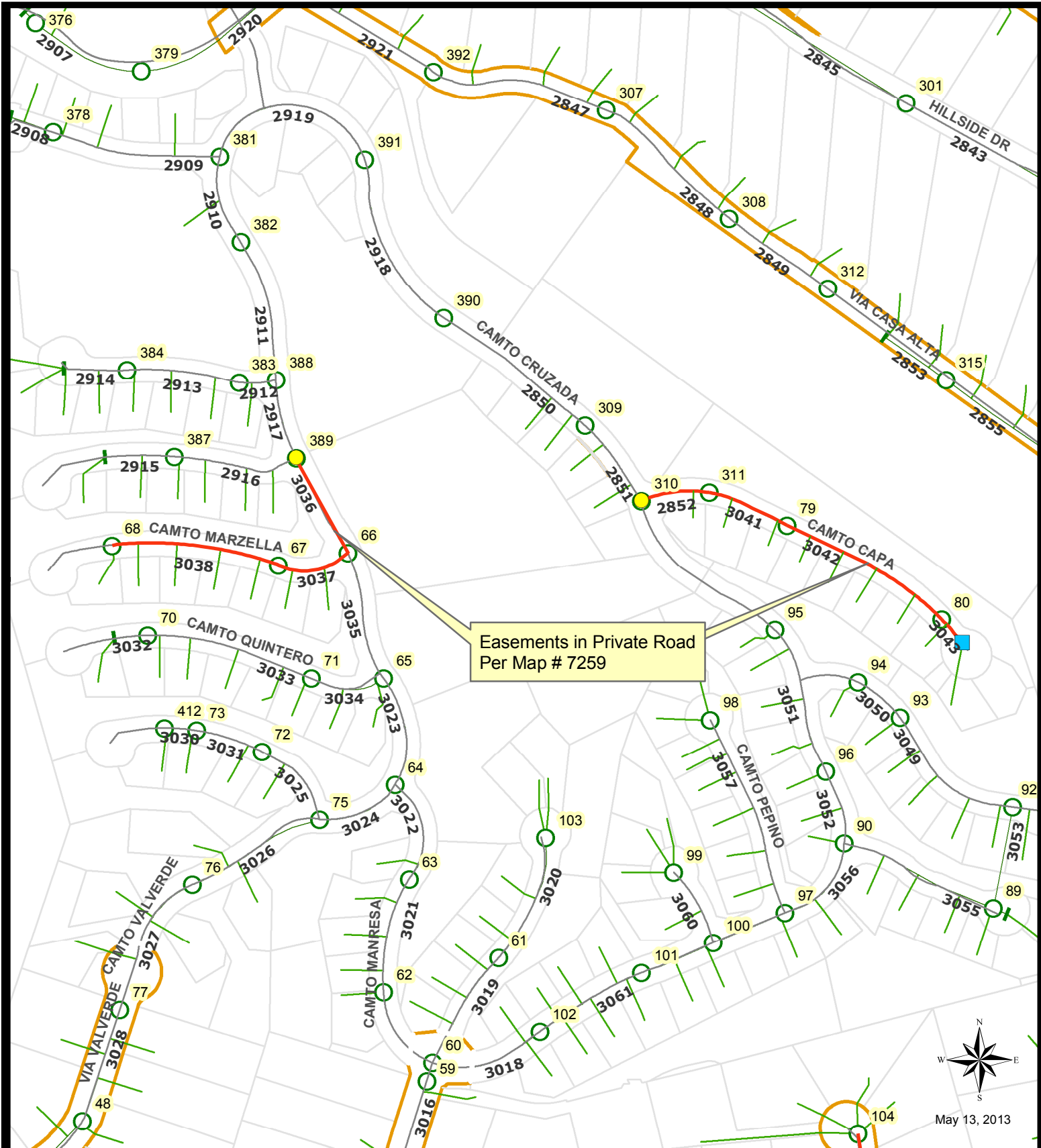
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|--------------------|--------------------------------|----------------|
| Manhole | Cleanouts | Plugs |
| MH_Rehab_Y-1 | Pipeline_Rehab_Y-1 | Laterals |
| MH_Replacement_Y-1 | Point_Repairs | 143 Manhole ID |
| ROW | 12345 Facility Sequence Number | |
| Easement | | |

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PROJECT ENGINEER
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SEWER REHABILITATION PROJECT Y-1

Legend

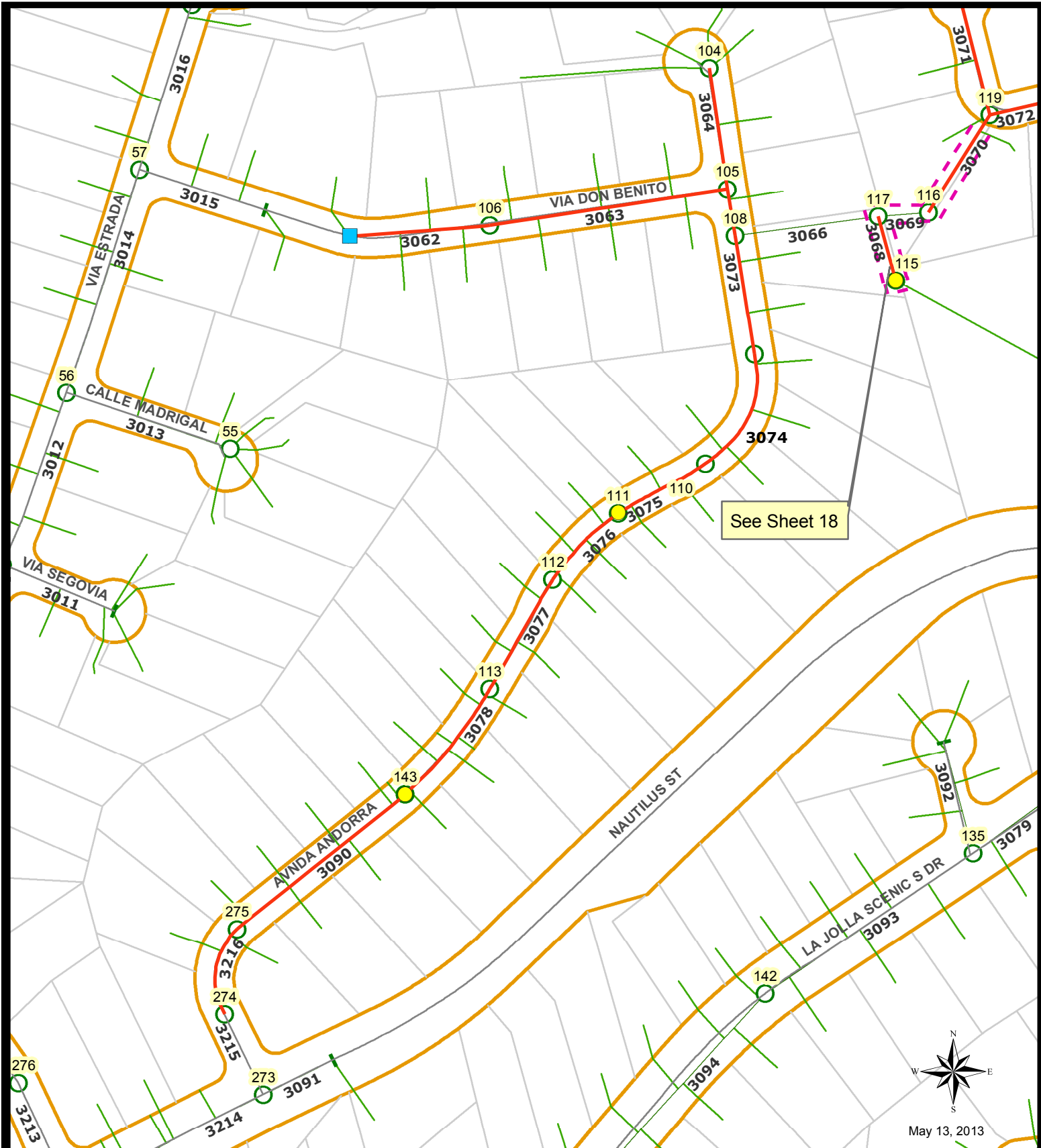
- Manhole
- MH_Rehab_Y-1
- MH_Replacement_Y-1
- Mains
- Lateral
- Cleanouts
- 143 Manhole ID
- Pipeline_Rehab_Y-1
- Point_Repairs
- 12345 Facility Sequence Number

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See Sheet 18



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SEWER REHABILITATION PROJECT Y-1

Legend

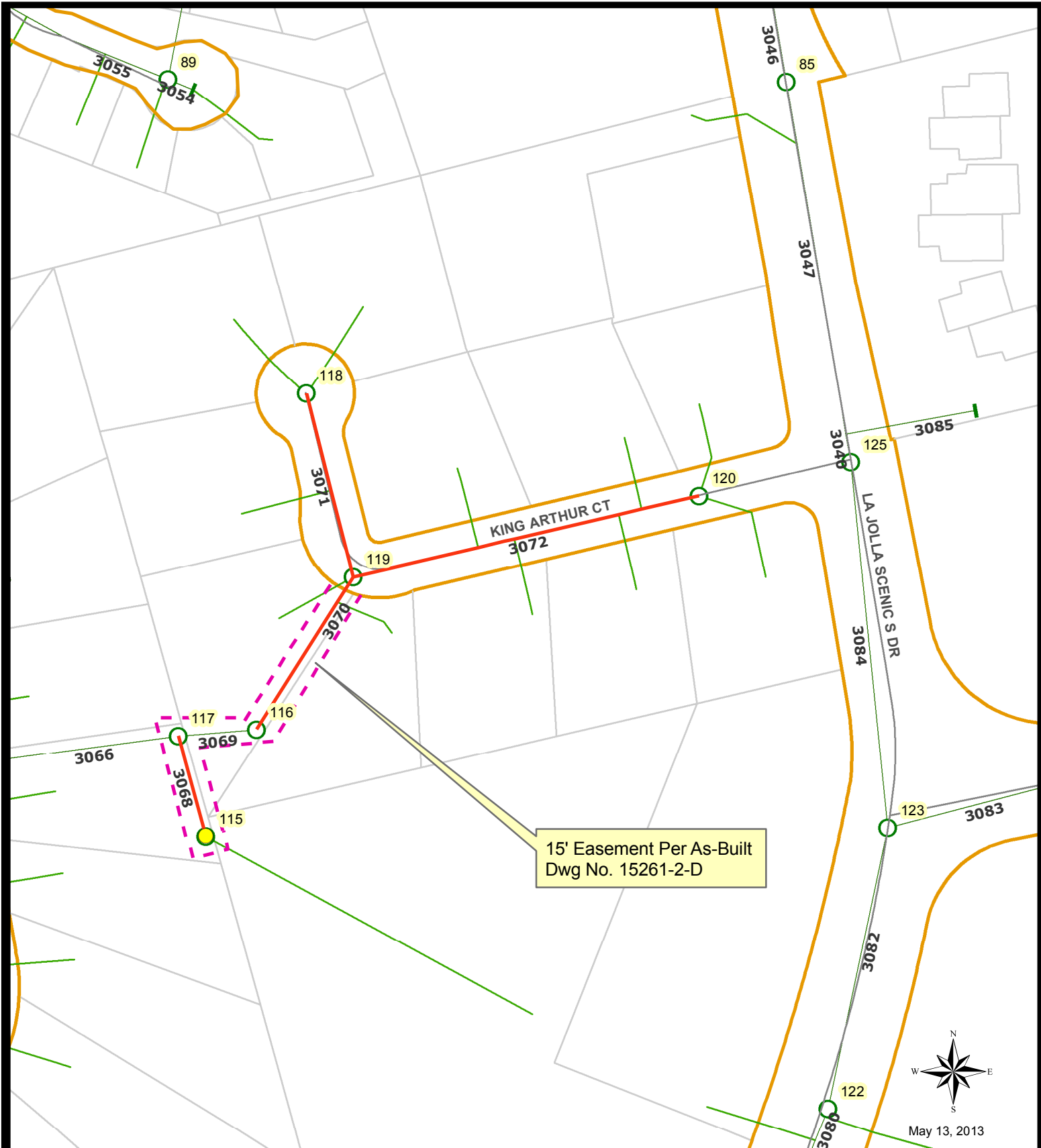
- Manhole
- MH_Rehab_Y-1
- MH_Replacement_Y-1
- Mains
- 12345 Facility Sequence Number
- Laterals
- Cleanouts
- Pipeline_Rehab_Y-1
- Point_Repairs
- Plugs
- Easement
- ROW
- 143 Manhole ID

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SHEET NO. 17



15' Easement Per As-Built
Dwg No. 15261-2-D



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SEWER REHABILITATION PROJECT Y-1

Legend

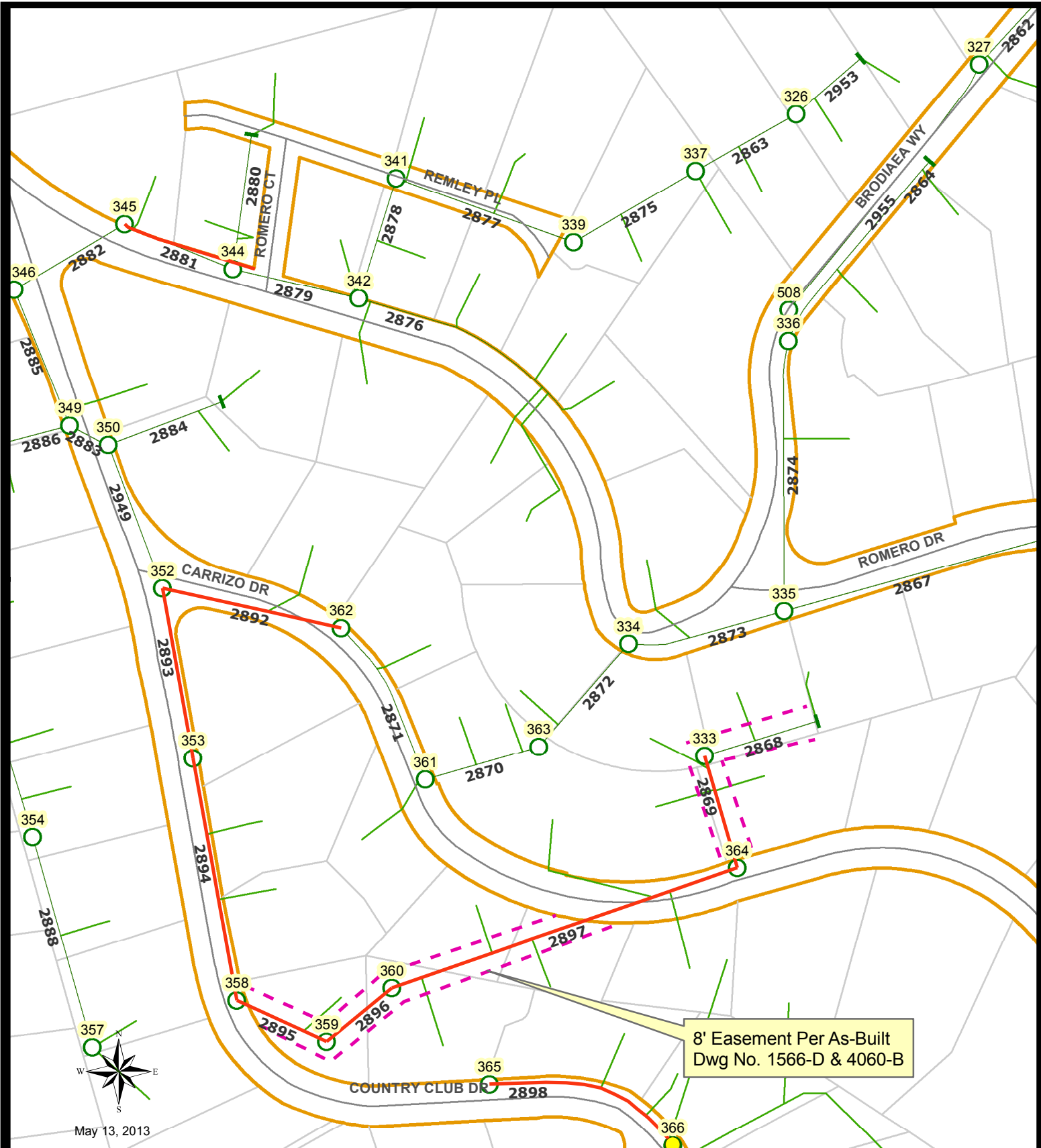
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|--------------------|--------------------|--------------------------------|
| Manhole | Cleanouts | 143 Manhole ID |
| MH_Rehab_Y-1 | Pipeline_Rehab_Y-1 | 12345 Facility Sequence Number |
| MH_Replacement_Y-1 | Point_Repairs | |
| Mains | ROW | |
| Laterals | Easement | |

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SHEET NO. 18



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FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

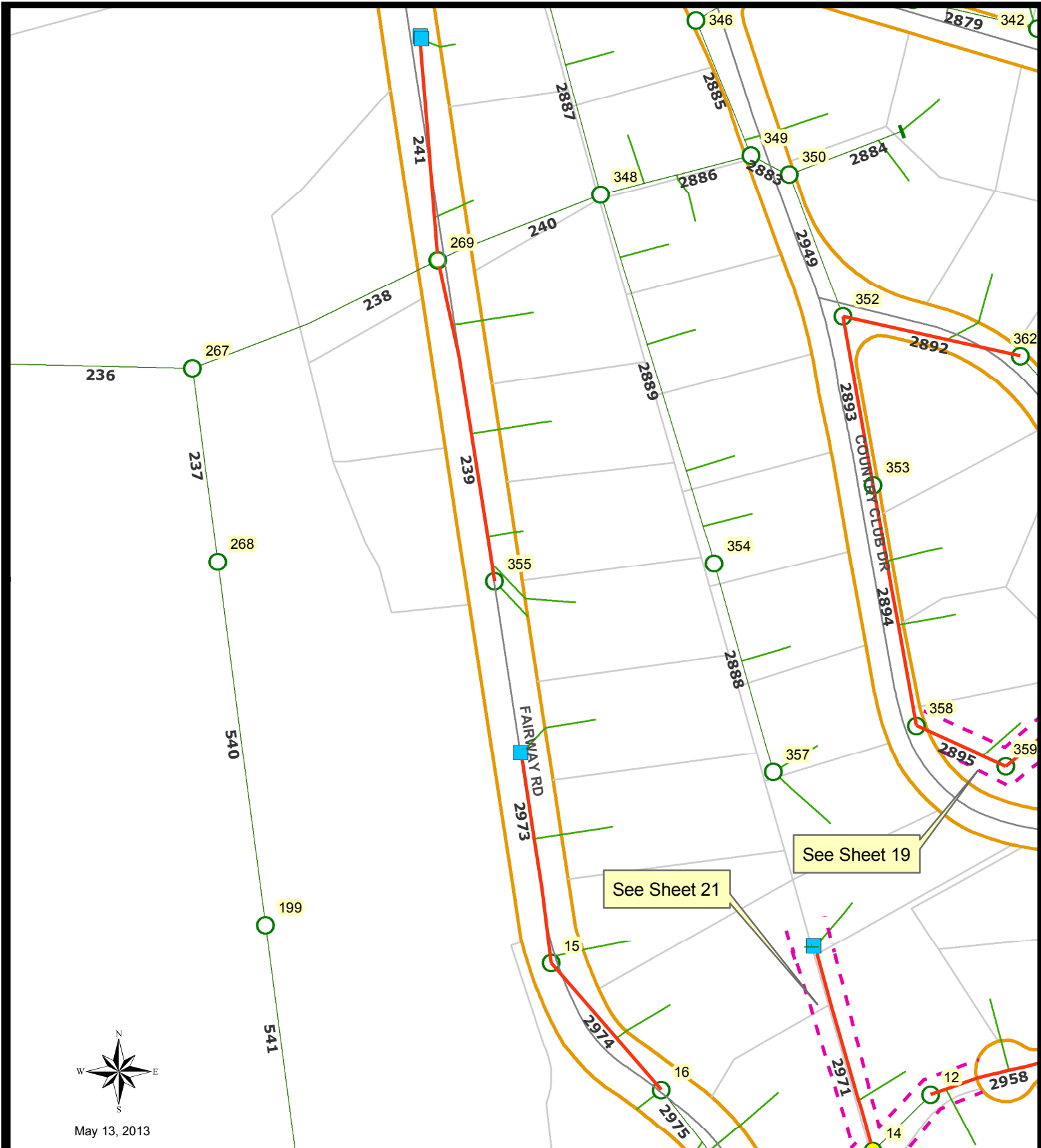
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|---|---|--------------------------------|
| --- Easement | ■ Cleanouts | 143 Manhole ID |
| --- ROW | --- Pipeline_Rehab_Y-1 | 12345 Facility Sequence Number |
| Manhole | --- Point_Repairs | |
| ● MH_Rehab_Y-1 | --- Mains | |
| ● MH_Replacement_Y-1 | --- Laterals | |

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SHEET NO. 19



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SEWER REHABILITATION PROJECT Y-1

Legend	
Easement	Cleanouts
Manhole	Pipeline_Rehab_Y-1
MH_Rehab_Y-1	Point_Repairs
MH_Replacement_Y-1	Mains
ROW	Laterals

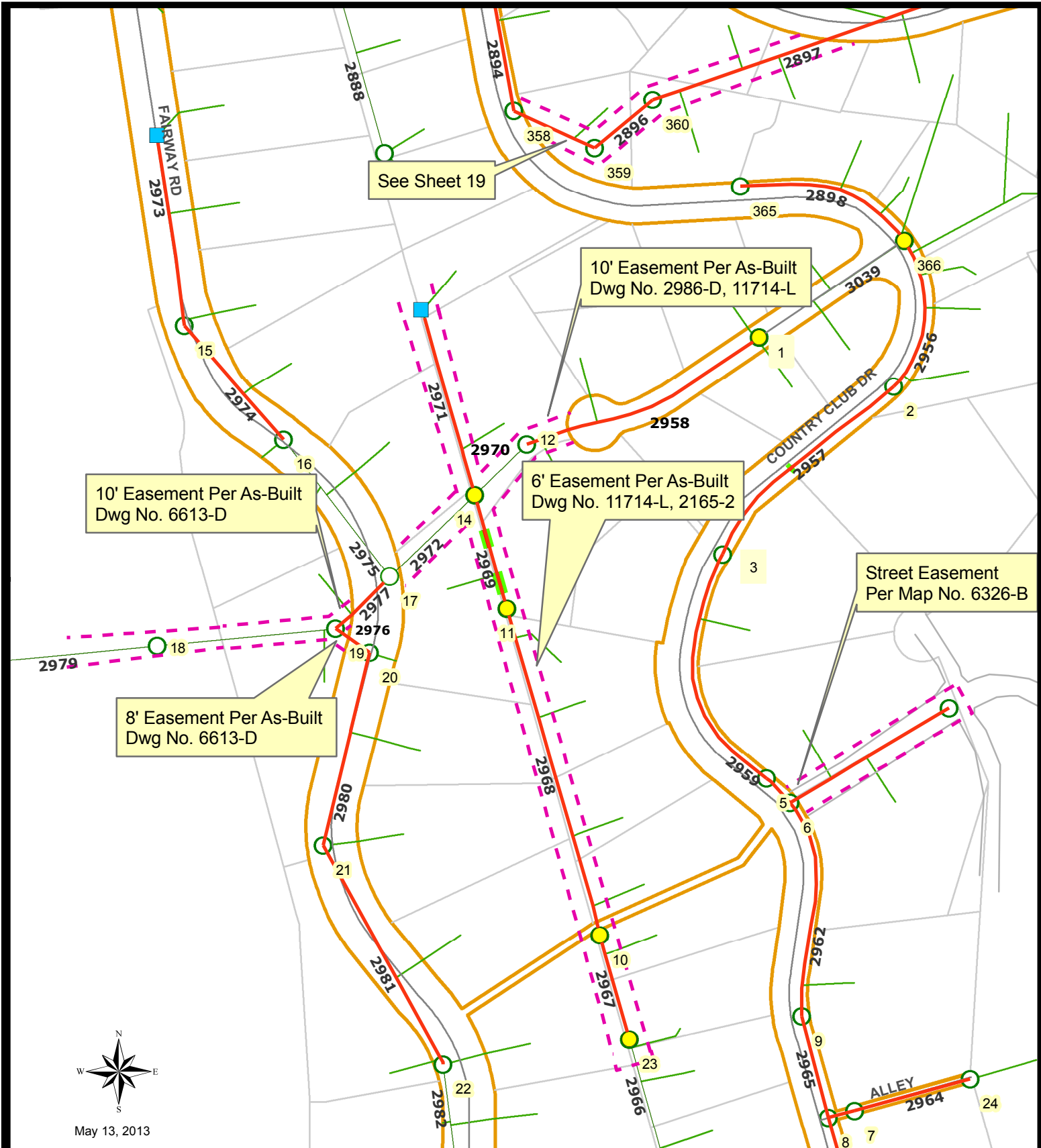
143 Manhole ID
 12345 Facility Sequence Number


WBS: B-13094

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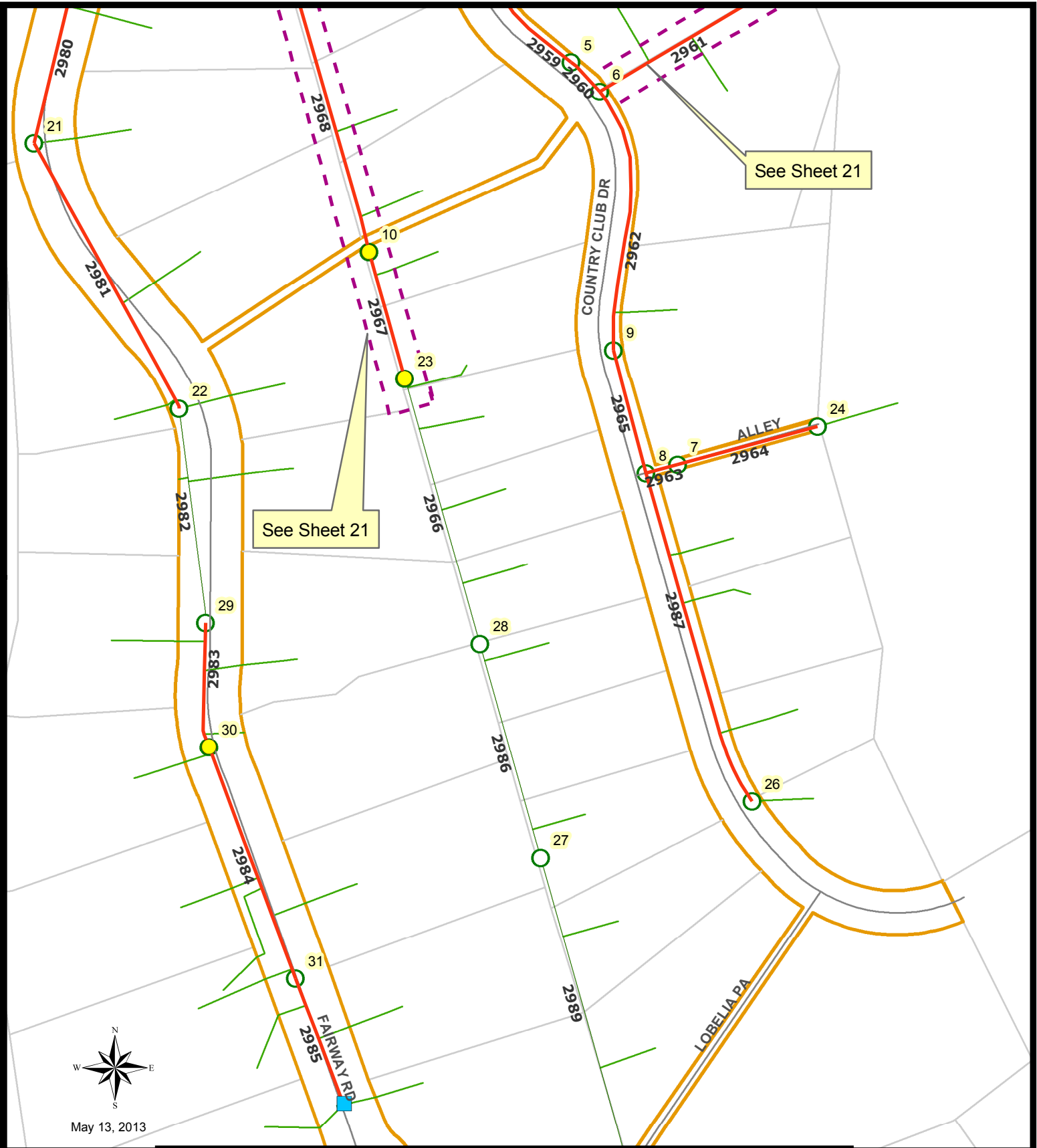



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JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend		
--- Easement	■ Cleanouts	143 Manhole ID
 Manhole	— Pipeline_Rehab_Y-1	12345 Facility Sequence Number
● MH_Rehab_Y-1	— Point_Repairs	
● MH_Replacement_Y-1	— Mains	
— ROW	— Laterals	

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 1247 7G
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SEWER REHABILITATION PROJECT Y-1

<p>Legend</p> <ul style="list-style-type: none"> Manhole MH_Replacement_Y-1 MH_Rehab_Y-1 Easement Mains Cleanouts Pipeline_Rehab_Y-1 Point_Repairs Laterals Plugs ROW 	<p> Manhole ID</p> <p>12345 Facility Sequence Number</p>
---	--

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JIM HAGGOUY

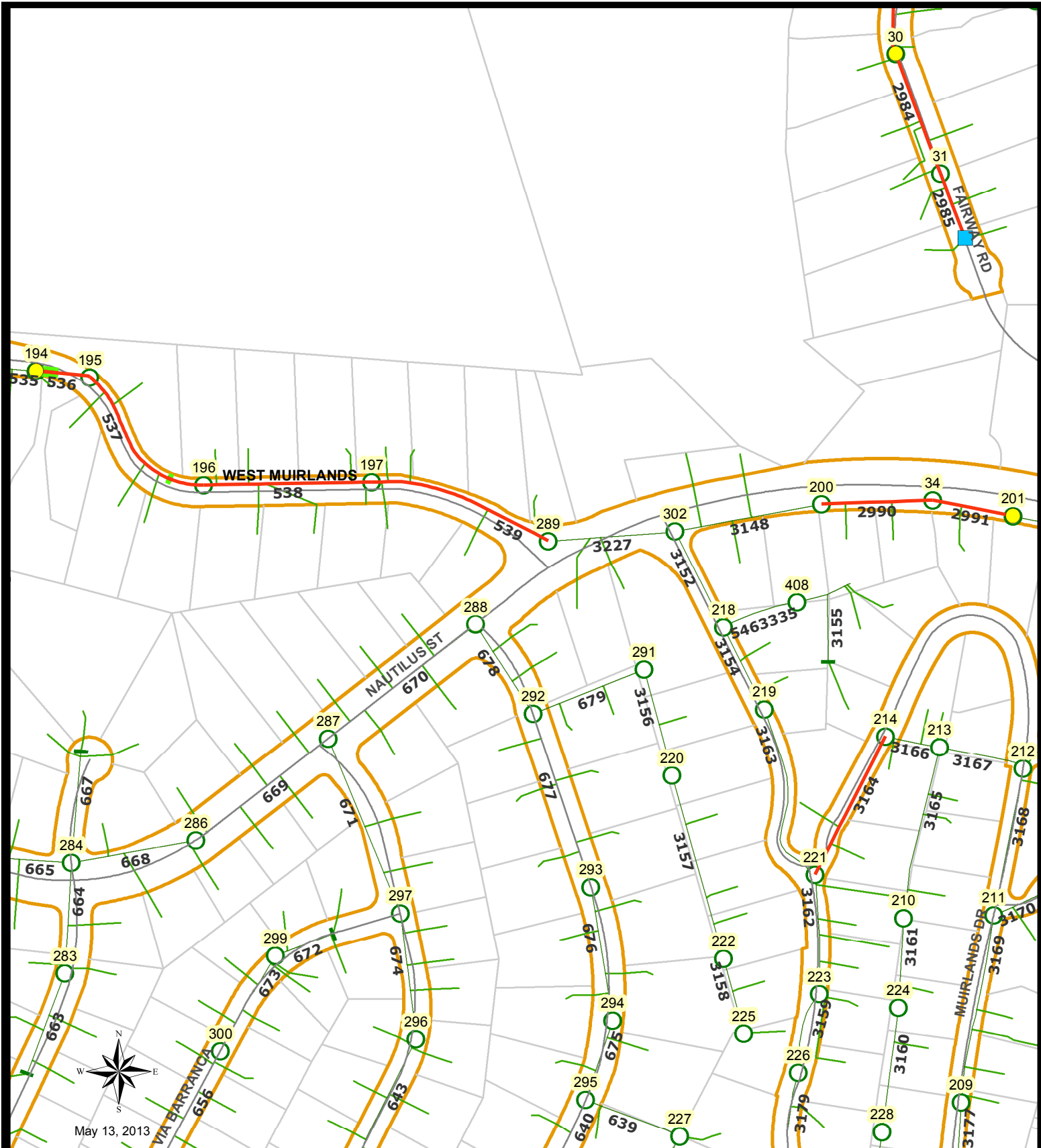
PROJECT ENGINEER
FRANCIS MARQUEZ

WBS: B-13094

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SHEET NO. 22



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SEWER REHABILITATION PROJECT Y-1

Legend

- Manhole
- MH_Rehab_Y-1
- MH_Replacement_Y-1
- Mains
- Cleanouts
- Pipeline_Rehab_Y-1
- Point_Repairs
- Laterals
- ROW

12345 Facility Sequence Number

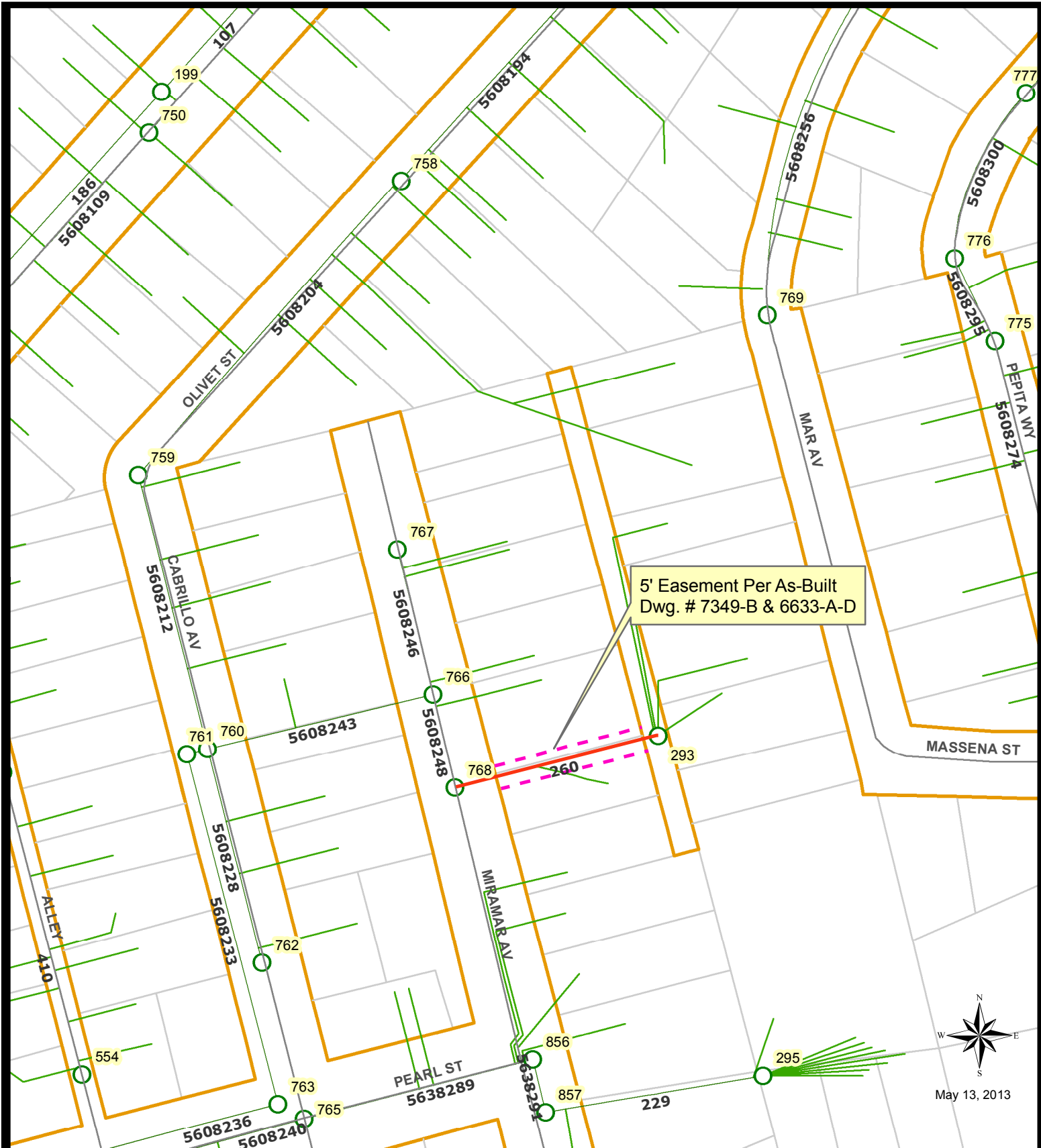
143 Manhole ID

WBS: B-13094

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SHEET NO. 23



May 13, 2013



SENIOR ENGINEER
WENDY GAMBOA
ASSOCIATE ENGINEER
JIM HAGGOUY
PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

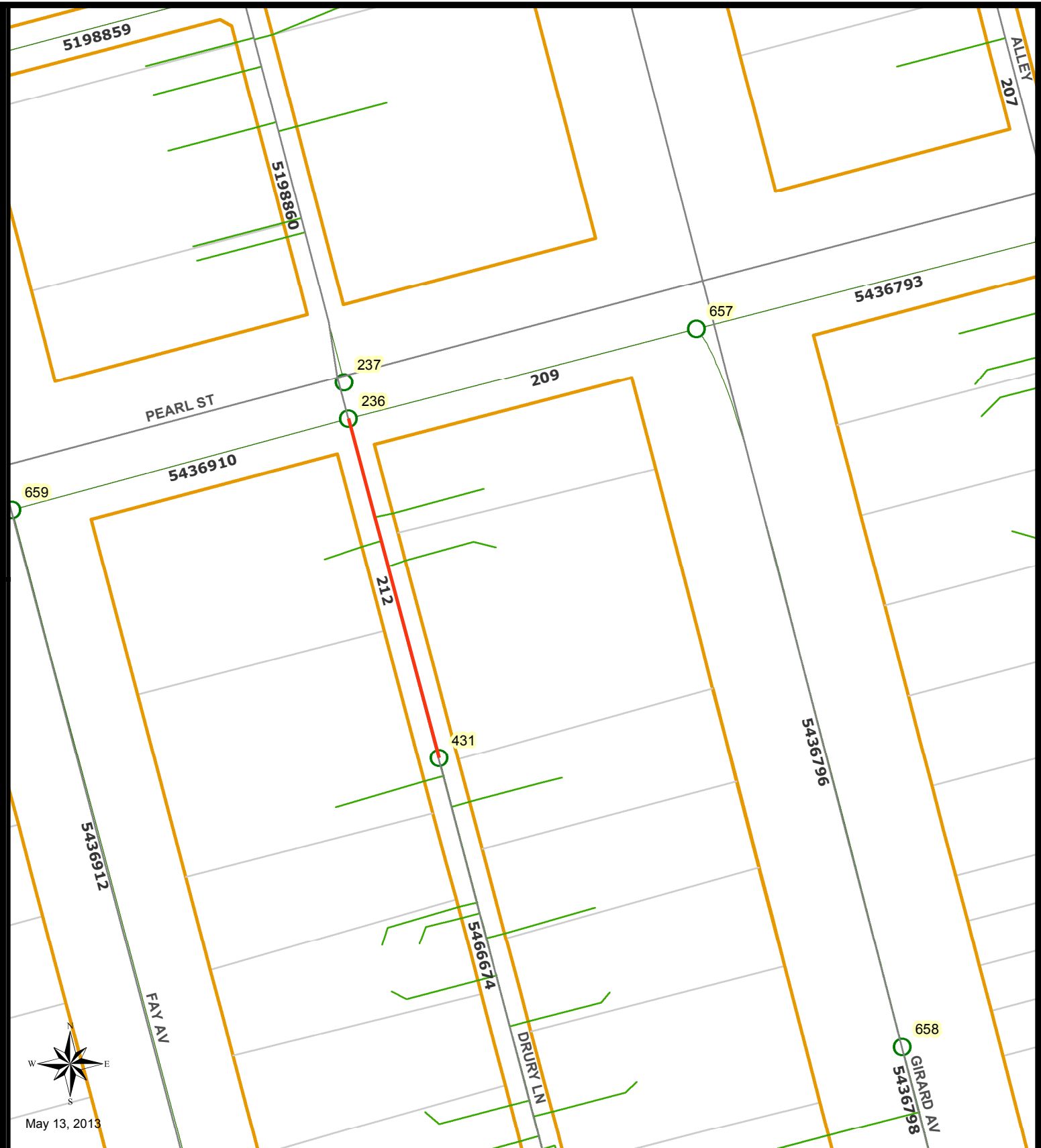
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- MH_Rehab_Y-1
- MH_Replacement_Y-1
- Easement
- Mains
- Cleanouts
- Pipeline_Rehab_Y-1
- Point_Repairs
- 143 Manhole ID
- Laterals
- ROW
- 12345 Facility Sequence Number

WBS: B-13094

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SHEET NO. 24



SENIOR ENGINEER
WENDY GAMBOA
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JIM HAGGOUY
PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

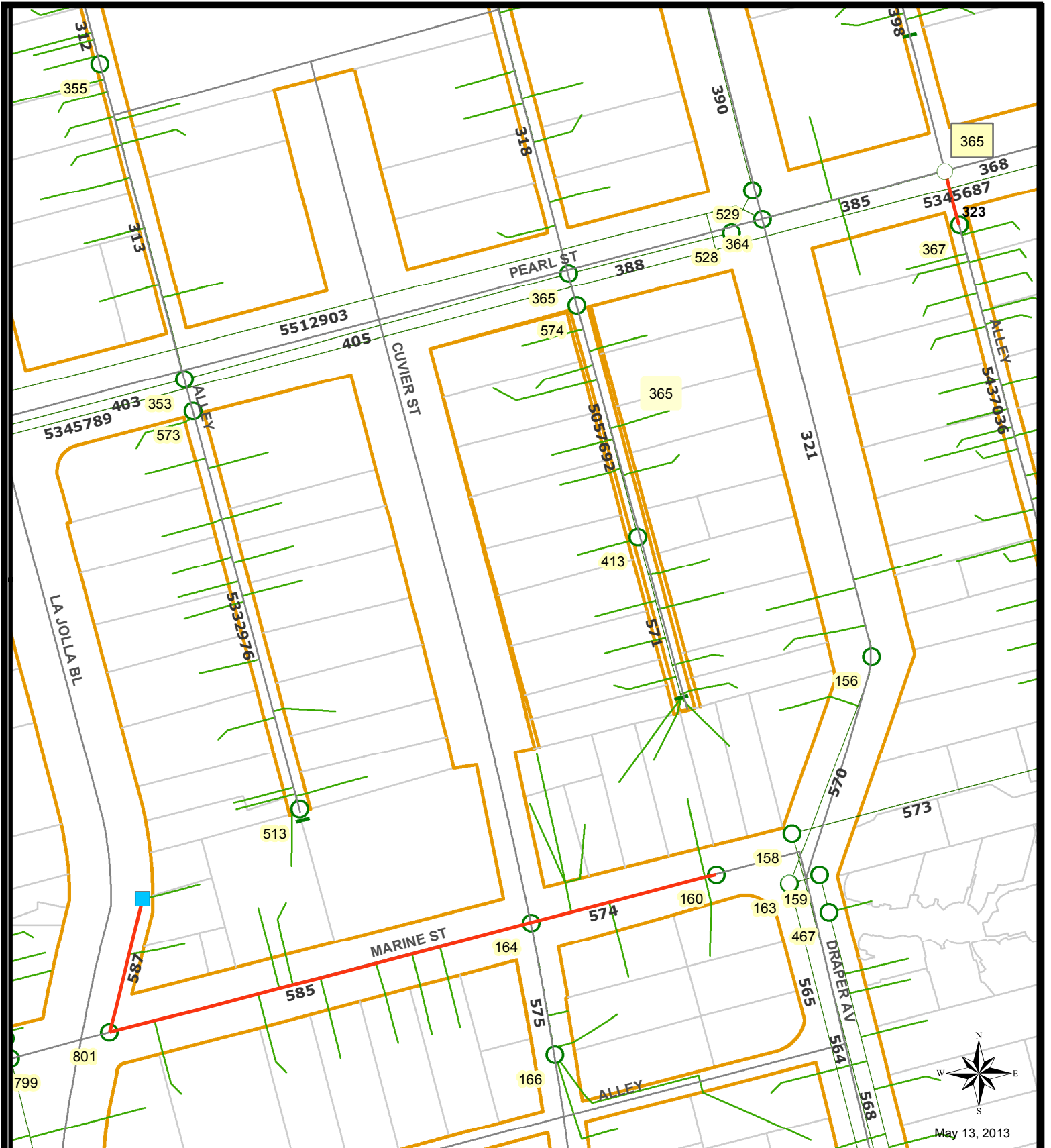
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| Manhole | Pipeline_Rehab_Y-1 | Laterals |
| MH_Rehab_Y-1 | Point_Repairs | ROW |
| MH_Replacement_Y-1 | 143 Manhole ID | 12345 Facility Sequence Number |
| Mains | | |
| Cleanouts | | |

WBS: B-13094

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SHEET NO. 25



May 13, 2013



SENIOR ENGINEER
WENDY GAMBOA
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FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

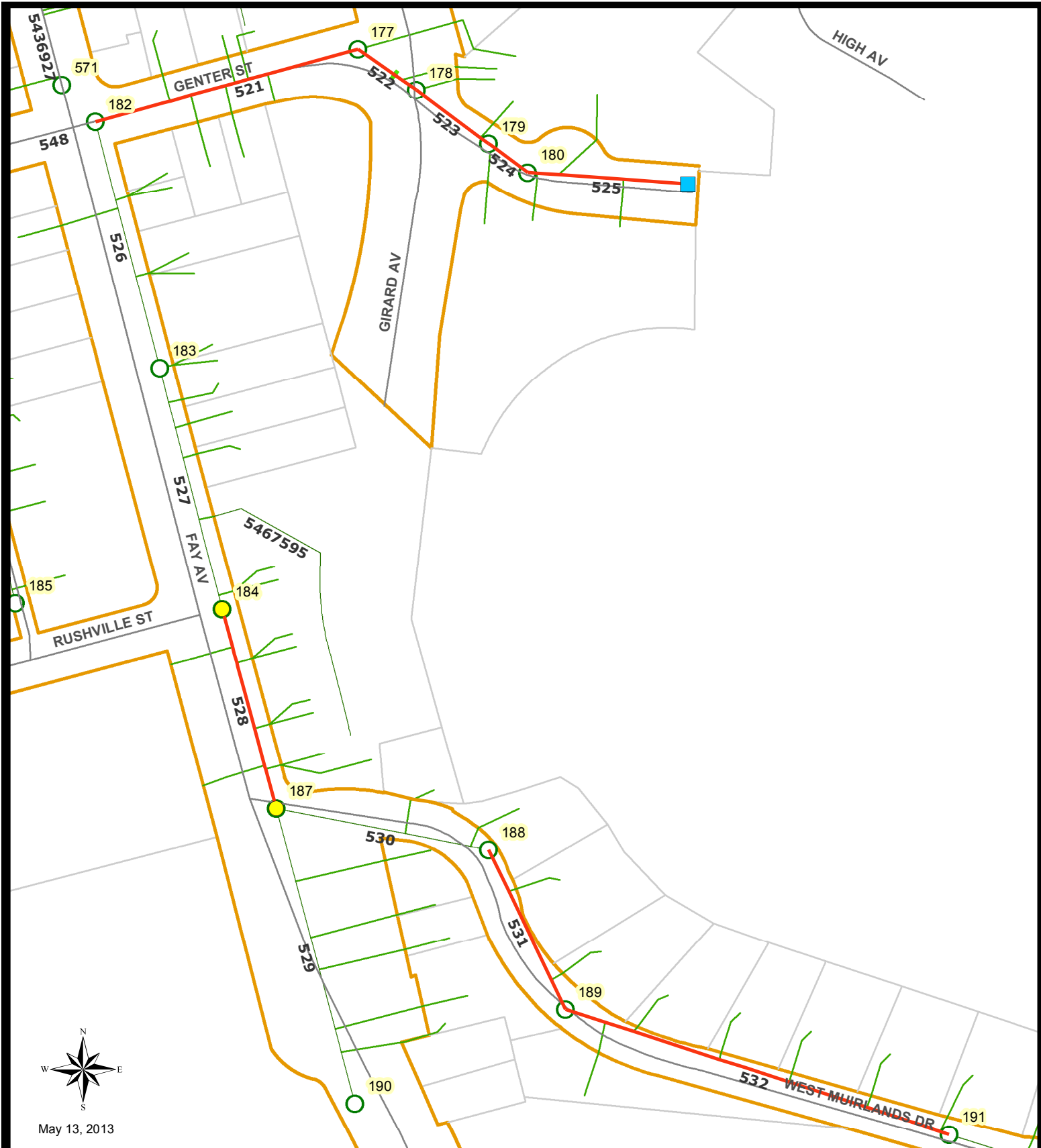
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|--------------------|--------------------------------|----------|
| Manhole | Pipeline_Rehab_Y-1 | Laterals |
| MH_Rehab_Y-1 | Point_Repairs | ROW |
| MH_Replacement_Y-1 | 143 Manhole ID | |
| Mains | 12345 Facility Sequence Number | |
| Cleanouts | | |

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SHEET NO. 26



SENIOR ENGINEER
WENDY GAMBOA
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PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

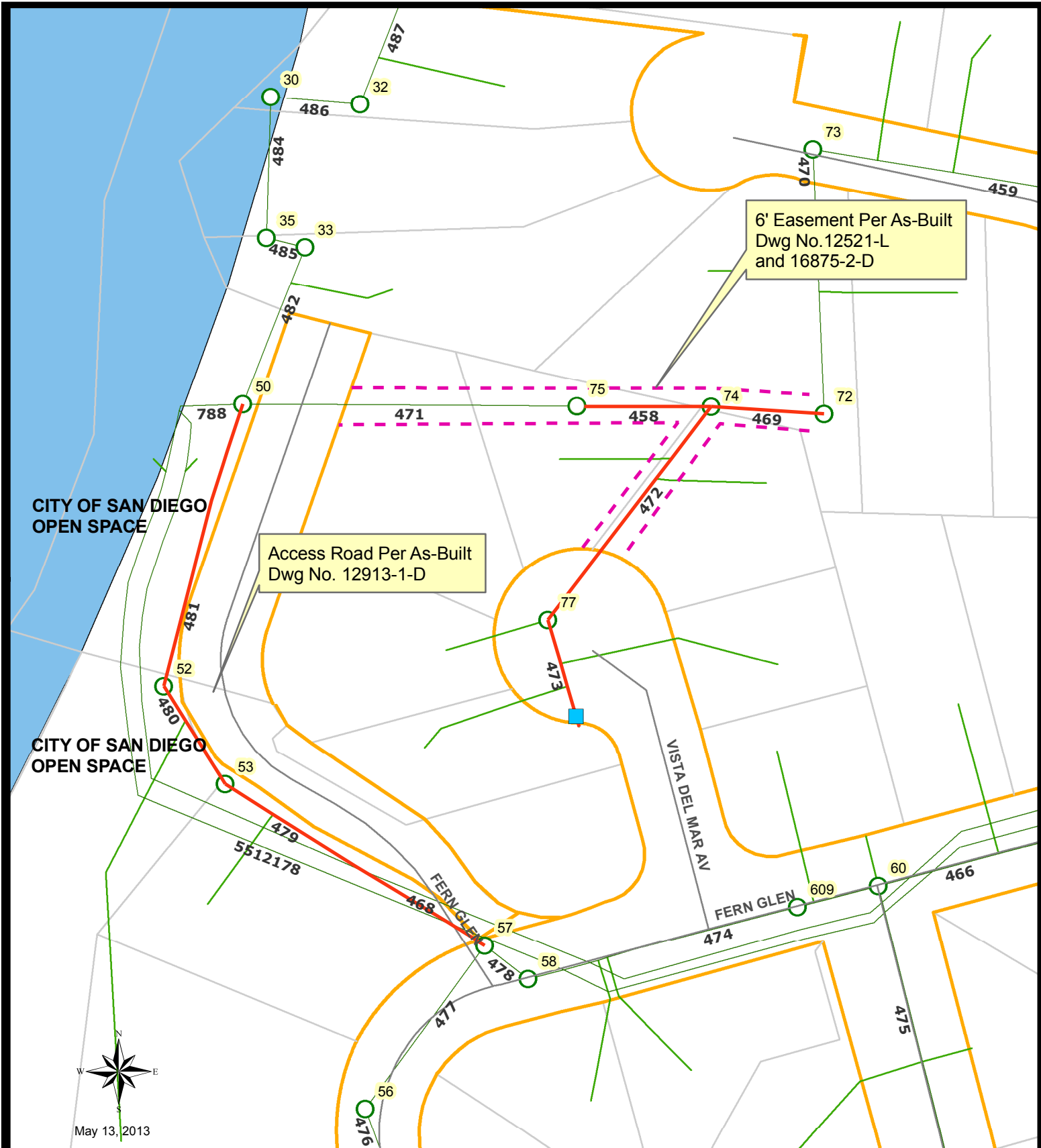
- Manhole
- MH_Rehab_Y-1
- MH_Replacement_Y-1
- ROW
- Cleanouts
- Pipeline_Rehab_Y-1
- Point_Repairs
- Mains
- Laterals
- 143 Manhole ID
- 12345 Facility Sequence Number


WBS: B-13094

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SHEET NO. 27



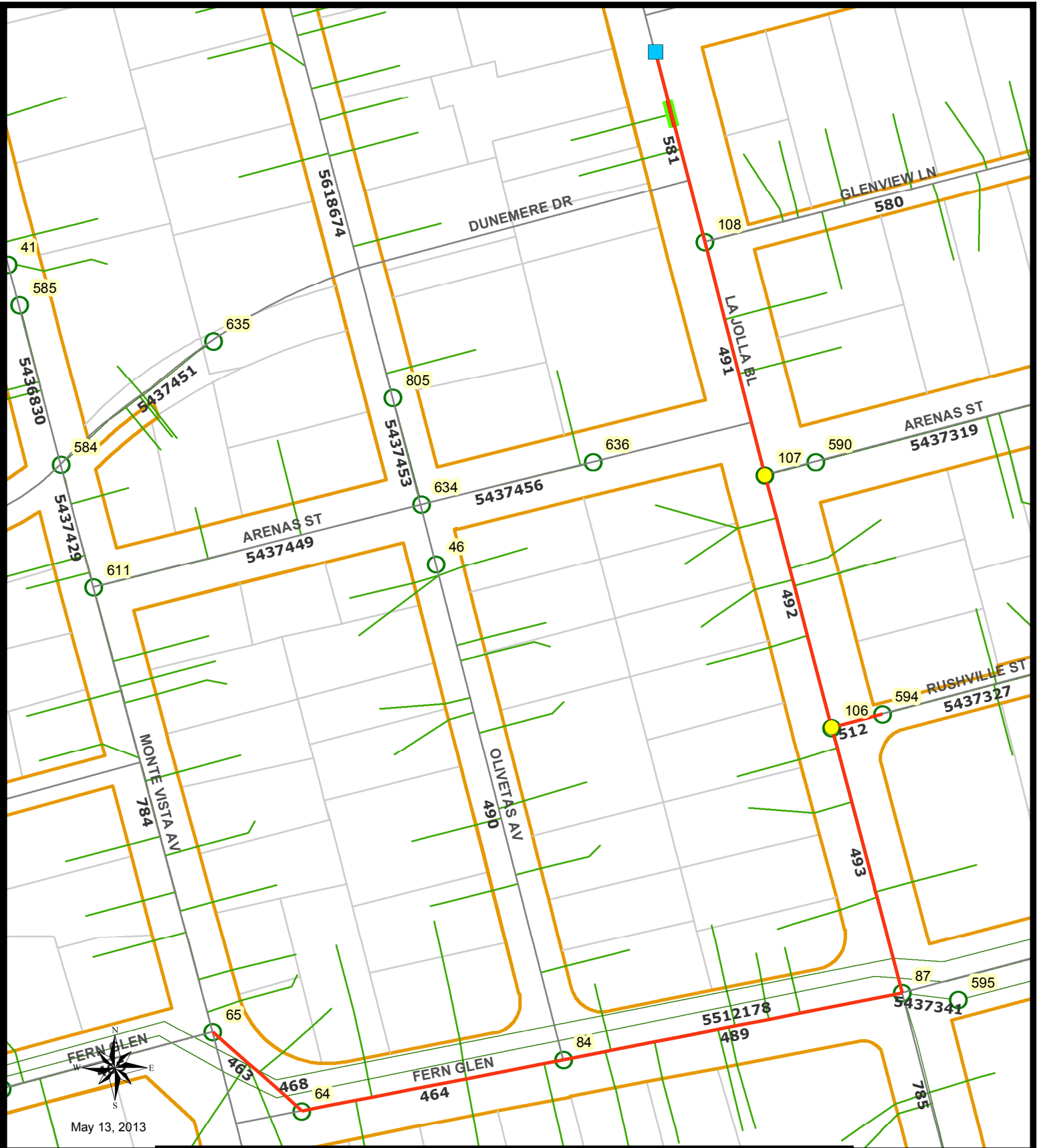

 SENIOR ENGINEER
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 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

12345 Facility Sequence Number

Legend		
○ Manhole	— Pipeline_Rehab_Y-1	— Mains
● MH_Rehab_Y-1	— Point_Repairs	— Laterals
● MH_Replacement_Y-1	143 Manhole ID	— ROW
- - - Easement		
■ Cleanouts		

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CITY OF SAN DIEGO
PUBLIC WORKS
 DEPARTMENT

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JIM HAGGOUY

PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

- | | | |
|--------------------|--------------------|--------------------------------|
| Manhole | Pipeline_Rehab_Y-1 | 143 Manhole ID |
| MH_Rehab_Y-1 | Point_Repairs | 12345 Facility Sequence Number |
| MH_Replacement_Y-1 | Laterals | |
| Mains | ROW | |
| Cleanouts | | |

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SHEET NO. 29



May 13, 2013

SEWER REHABILITATION PROJECT Y-1

Legend

- | | | |
|--------------------|--------------------------------|--------------------|
| Manhole | Laterals | Pipeline_Rehab_Y-1 |
| MH_Rehab_Y-1 | Cleanouts | Point_Repairs |
| MH_Replacement_Y-1 | 143 Manhole ID | |
| Mains | 12345 Facility Sequence Number | |

CITY OF SAN DIEGO
PUBLIC WORKS DEPARTMENT

SENIOR ENGINEER
WENDY GAMBOA

ASSOCIATE ENGINEER
JIM HAGGOUY

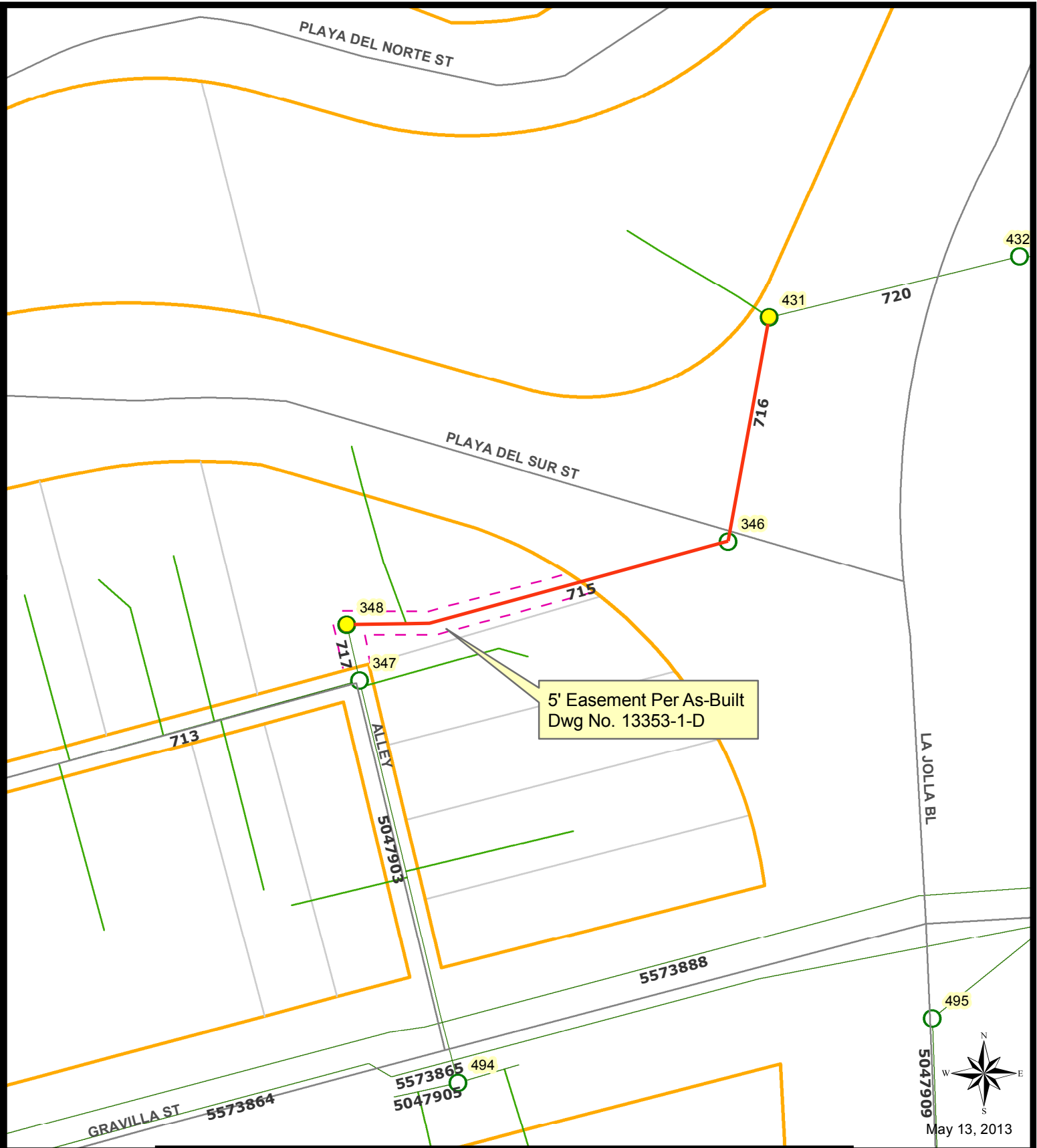
PROJECT ENGINEER
FRANCIS MARQUEZ

WBS: B-13094

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SHEET NO. 30



SENIOR ENGINEER
WENDY GAMBOA
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JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

- | | | |
|--------------------|------------------------------|----------|
| Manhole | Cleanouts | Mains |
| MH_Rehab_Y-1 | Pipeline_Rehab_Y-1 | Laterals |
| MH_Replacement_Y-1 | Point_Repairs | |
| Easement | 143 Manhole ID | |
| ROW | 123 Facility Sequence Number | |

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**CITY OF SAN DIEGO
PUBLIC WORKS
DEPARTMENT**

**SENIOR ENGINEER
WENDY GAMBOA**

**ASSOCIATE ENGINEER
JIM HAGGOUY**

**PROJECT ENGINEER
FRANCIS MARQUEZ**

SEWER REHABILITATION PROJECT Y-1

Legend

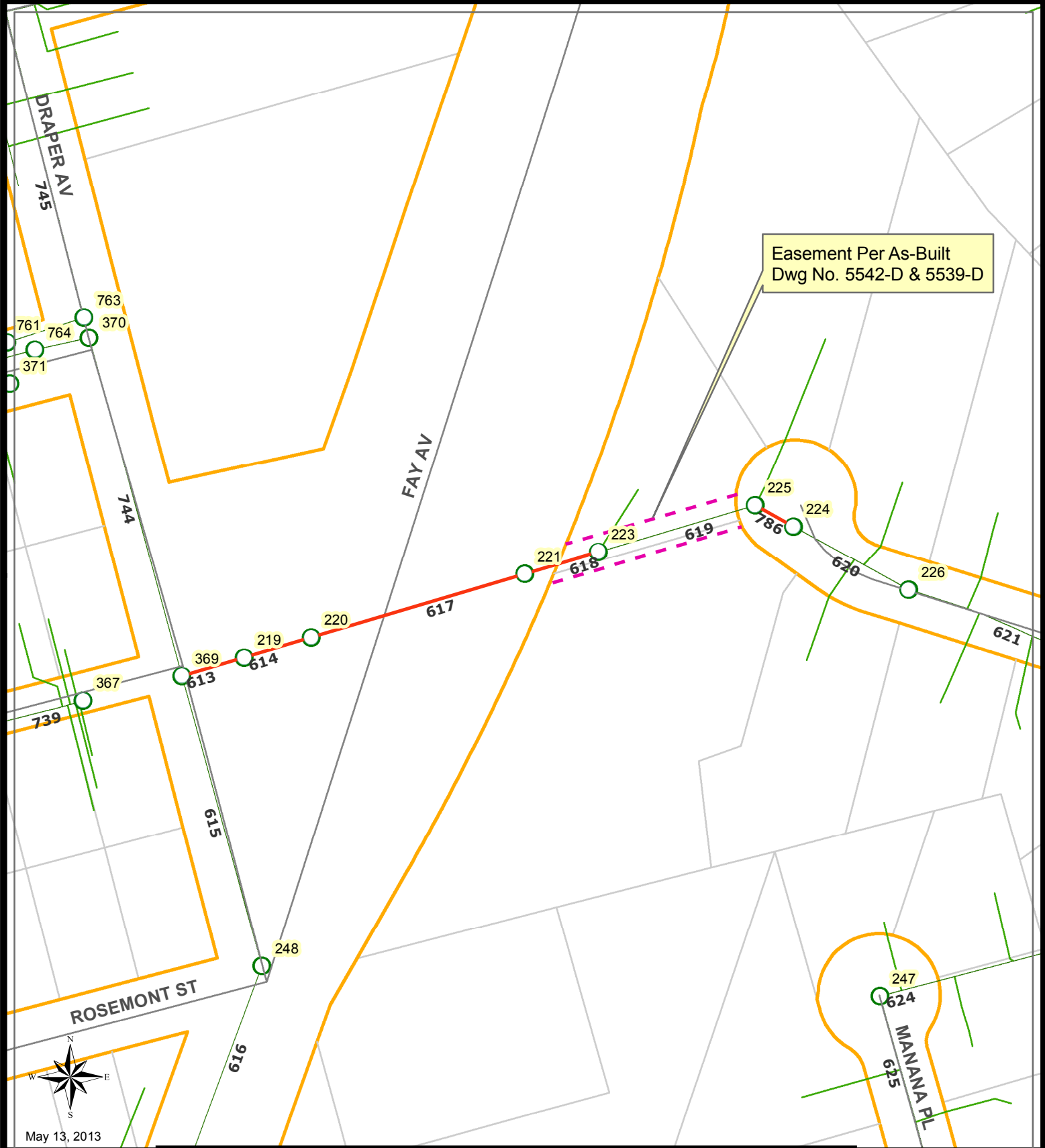
- Manhole
- MH_Replacement_Y-1
- MH_Rehab_Y-1
- 143 Manhole ID
- ROW
- Cleanouts
- ▭ Pipeline_Rehab_Y-1
- ▭ Point_Repairs
- Mains
- Laterals
- 12345 Facility Sequence Number

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SHEET NO. 32



May 13, 2013



SENIOR ENGINEER
WENDY GAMBOA
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JIM HAGGOUY
PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHABILITATION PROJECT Y-1

Legend

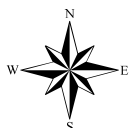
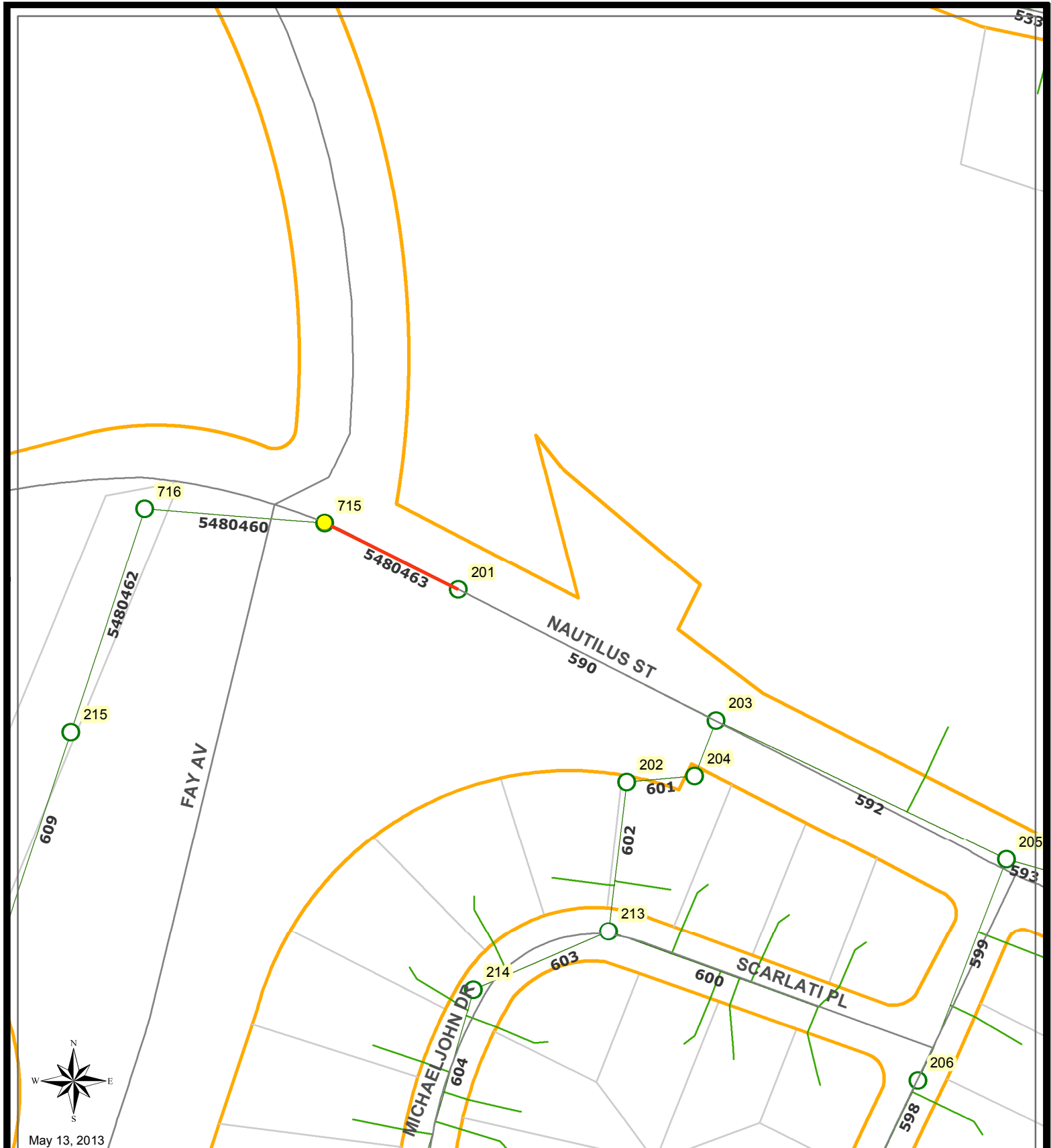
- | | | |
|--------------------|--------------------|--------------------------------|
| Manhole | Laterals | 12345 Facility Sequence Number |
| MH_Rehab_Y-1 | Cleanouts | 143 Manhole ID |
| MH_Replacement_Y-1 | Pipeline_Rehab_Y-1 | |
| Mains | Point_Repairs | |
| | ROW | |
| | Easement | |

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SHEET NO. 33



May 13, 2013



SEWER REHABILITATION PROJECT Y-1

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- Manhole
- MH_Replacement_Y-1
- MH_Rehab_Y-1
- Mains
- Cleanouts
- Pipeline_Rehab_Y-1
- Point_Repairs
- ROW
- Laterals

143 Manhole ID
12345 Facility Sequence Number

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SHEET NO. 34

SENIOR ENGINEER
WENDY GAMBOA
ASSOCIATE ENGINEER
JIM HAGGOUY
PROJECT ENGINEER
FRANCIS MARQUEZ

CONSTRUCTION NOTES:

1. Contractor shall locate end of existing sewer mains prior to installation of cleanouts.
2. Contractor shall coordinate with property owners the schedule of work within the easement areas and on private property prior to mobilization of work.
3. The City will obtain permits to do work from property owners (see sample permit and list of properties on Appendix L). Contractor shall obtain additional permits from other property owners prior to mobilization if the Contractor prefers to use another property for access.
4. Foot access to existing manholes in easements and private properties are limited.
5. Contractor shall replace in kind all existing improvements damaged during construction at no additional cost to the City.
6. Use extreme caution when working due to low overhead utility lines.

APPENDIX E

SEWER PIPELINE REHABILITATION SCOPE OF WORK

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
613	DRAPER	31	8	VC	0	Rehab	369	219	10.14	24.29%	1247F2	A11S	La Jolla	1	
614	FAY	44	8	VC	0	Rehab	219	220	8.85	43.05%	1247F2	A11S	La Jolla	1	
786	AVNDA WILFREDO	20	8	VC	1	Rehab	225	224	21.18	2.65%	1247F2	A11S	La Jolla	1	
260	MIRAMAR	163	8	VC	5	Rehab	794	293	2.27	28.83%	1227F7	A10S	La Jolla	1	
323	ALLEY	54	8	CP	0	Rehab	665	367	9.57	8.40%	1227E7	A10S	La Jolla	1	
212	DRURY	188	8	VC	3	Rehab	236	431	12.38	6.02%	1227F7	A10S	La Jolla	1	
585	MARINE	412	8	VC	8	Rehab	801	164	9.9	3.53%	1227E7	A11S	La Jolla	1	
522	GENTER	70	8	VC	2	P.R. & Rehab	177	178	7.48	3.91%	1227F7	A11S	La Jolla	1	
523	GENTER	104	8	VC	2	Rehab	178	179	8.04	2.90%	1247F1	A11S	La Jolla	1	
524	GENTER	60	8	VC	1	Rehab	179	180	6.55	6.90%	1247F1	A11S	La Jolla	1	
525	GENTER	182	8	VC	3	Rehab	180	181	7.3	4.35%	1247F1	A11S	La Jolla	1	Install Cleanout
531	WEST MUIRLANDS	190	8	VC	2	Rehab	188	189	25	7.27%	1247F1	A11S	La Jolla	1	
472	VISTA DEL MAR	117	8	VC	2	Rehab	74	77	2.98	5.10%	1247E1	A11S	La Jolla	1	
473	VISTA DEL MAR	60	8	VC	3	Rehab	77	82	1.2	33.33%	1247E1	A11S	La Jolla	1	Install Cleanout
689	WESTBOURNE	350	8	VC	2	Rehab	313	305	6.54	4.07%	1247E1	A11S	La Jolla	1	
690	WESTBOURNE	273	8	VC	5	Rehab	305	303	6.85	2.59%	1247E1	A11S	La Jolla	1	
683	VISTA DEL MAR	195	8	VC	5	P.R. & Rehab	307	306	4.76	24.73%	1247E1	A11S	La Jolla	1	Install Cleanout
479	FERN GLEN	138	8	VC	1	Rehab	53	57	27.6	4.49%	1247E1	A11S	La Jolla	1	
480	FERN GLEN	67	8	VC	1	Rehab	52	53	34.53	5.21%	1247E1	A11S	La Jolla	1	
481	FERN GLEN	138	8	VC	0	REHAB	50	52	34.59	1.98%	1247E1	A11S	La Jolla	1	
463	FERN GLEN	100	8	VC	3	Rehab	65	64	15	9.17%	1247E1	A11S	La Jolla	1	
464	FERN GLEN	202	8	VC	5	Rehab	64	84	19.82	2.86%	1247E1	A11S	La Jolla	1	
489	FERN GLEN	262	8	VC	8	Rehab	84	87	20.81	2.19%	1247E1	A11S	La Jolla	1	
493	LA JOLLA	209	8	VC	4	Rehab	87	106	26.15	0.51%	1247E1	A11S	La Jolla	1	
512	RUSHVILLE	40	8	CP	0	Rehab	106	594	9.67	7.00%	1247E1	A11S	La Jolla	1	

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
581	LA JOLLA	150	8	VC	2	P.R. & Rehab	108	141	3.69	2.04%	1247E1	A11S	La Jolla	1	Install Cleanout
491	LA JOLLA	180	8	VC	2	Rehab	107	108	16.07	0.52%	1247E1	A11S	La Jolla	1	
492	LA JOLLA	200	8	VC	5	Rehab	106	107	19.94	0.52%	1247E1	A11S	La Jolla	1	
753	BONAIR	350	8	VC	2	Rehab	397	396	6.89	4.30%	1247F1	A11S	La Jolla	1	
5480463	NAUTILUS ST.	139	8	VC	0	Rehab	715	201	20.57	5.88%	1247F1	A11S	La Jolla	1	
610	BONAIR	350	8	VC	5	Rehab	393	218	19.07	8.30%	1247F1	A11S	La Jolla	1	
748	BONAIR	95	8	VC	0	Rehab	395	393	16.44	15.31%	1247F1	A11S	La Jolla	1	
3164	MUIRLANDS	253	8	VC	2	Rehab	221	214	13.94	7.19%	1247G1	B11S	La Jolla	1	
536	WEST MUIRLANDS	91	8	VC	0	P.R. & Rehab	194	195	34	11.93%	1247G1	A11S	La Jolla	1	
537	WEST MUIRLANDS	302	8	VC	4	P.R. & Rehab	195	196	26	7.81%	1247G1	A11S	La Jolla	1	
538	WEST MUIRLANDS	300	8	VC	6	Rehab	196	197	26	6.60%	1247G1	A11S	La Jolla	1	
539	WEST MUIRLANDS	330	8	VC	5	P.R. & Rehab	197	289	34	2.22%	1247G1	A11S	La Jolla	1	
2991	NAUTILUS ST.	142	8	VC	1	Rehab	34	201	35	1.00%	1247G1	B11S	La Jolla	1	
3062	VIA DON BENITO	200	8	VC	4	Rehab	106	300	5.98	1.00%	1247H1	B11S	La Jolla	1	Install Cleanout
3063	VIA DON BENITO	350	8	VC	6	Rehab	105	106	9.24	1.00%	1247H1	B11S	La Jolla	1	
3064	AVNDA ANDORRA	185	8	VC	5	Rehab	105	104	4.34	7.04%	1247H1	B11S	La Jolla	1	
3065	AVNDA ANDORRA	79	8	VC	1	Rehab	108	105	6.88	9.63%	1247H1	B11S	La Jolla	1	
3068	PRVT PROPERTY	100	8	VC	1	Rehab	117	115	3.87	8.75%	1247H1	B11S	La Jolla	1	
3070	KING ARTHUR	160	8	VC	1	Rehab	116	119	6.19	9.38%	1247H1	B11S	La Jolla	1	
3071	KING ARTHUR	178	8	VC	4	Rehab	119	118	5.22	3.47%	1247H1	B11S	La Jolla	1	
3072	KING ARTHUR	315	8	VC	6	Rehab	119	120	3.91	15.00%	1247J1	B11S	La Jolla	1	
3073	AVNDA ANDORRA	175	8	VC	2	Rehab	109	108	9.56	11.45%	1247H1	B11S	La Jolla	1	
3074	AVNDA ANDORRA	171	8	VC	4	Rehab	110	109	9.77	13.89%	1247H1	B11S	La Jolla	1	
3075	AVNDA ANDORRA	142	8	VC	3	Rehab	111	110	12.85	5.06%	1247H1	B11S	La Jolla	1	
3076	AVNDA ANDORRA	154	8	VC	4	Rehab	112	111	12.75	6.10%	1247H1	B11S	La Jolla	1	

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
3077	AVNDA ANDORRA	157	8	VC	3	Rehab	113	112	13.12	6.01%	1247H1	B11S	La Jolla	1	
3078	AVNDA ANDORRA	221	8	VC	6	Rehab	143	113	17.58	2.08%	1247H1	B11S	La Jolla	1	
3090	AVNDA ANDORRA	292	8	VC	7	Rehab	275	143	23.8	0.71%	1247H1	B11S	La Jolla	1	
3216	AVNDA ANDORRA	127	8	VC	2	Rehab	274	275	23.62	0.76%	1247H1	B11S	La Jolla	1	
715	PLAYA DEL SUR	119	8	VC	1	Rehab	348	346	12.73	0.47%	1247E2	A11S	La Jolla	1	
716	PLAYA DEL SUR	66	8	VC	1	Rehab	346	431	10.35	1.29%	1247E2	A11S	La Jolla	1	
3037	CAMTO MARZELLA	122	8	VC	2	Rehab	66	67	3.12	1.25%	1227H7	B11S	La Jolla	1	
3038	CAMTO MARZELLA	292	8	VC	5	Rehab	67	68	1.99	5.47%	1227H7	B11S	La Jolla	1	
2852	CAMTO CAPA	132	8	VC	1	Rehab	310	311	4.59	1.40%	1227H7	B10S	La Jolla	1	
3041	CAMTO CAPA	117	8	VC	2	Rehab	311	79	2.77	10.20%	1227H7	B11S	La Jolla	1	
3042	CAMTO CAPA	337	8	VC	4	Rehab	79	80	3.91	1.54%	1227H7	B11S	La Jolla	1	
3043	CAMTO CAPA	55	8	VC	2	Rehab	80	81	1.29	2.40%	1227H7	B11S	La Jolla	1	Install Cleanout
2881	ROMERO	149	8	VC	1	Rehab	345	344	3.88	11.41%	1227G7	B10S	La Jolla	1	
239	FAIRWAY	323	8	VC	5	Rehab	269	355	2.81	9.60%	1227G7	B10S	La Jolla	1	
241	FAIRWAY	200	8	VC	2	Rehab	269	270	1.92	7.28%	1227G7	A10S	La Jolla	1	Install Cleanout
2892	CARRIZO	191	8	VC	1	Rehab	352	362	7.03	13.61%	1227G7	B10S	La Jolla	1	
2893	COUNTRY CLUB	168	8	VC	0	Rehab	352	353	3.89	10.42%	1227G7	B10S	La Jolla	1	
2894	COUNTRY CLUB	244	8	VC	2	Rehab	353	358	7.33	0.70%	1227G7	B10S	La Jolla	1	
2987	COUNTRY CLUB	309	8	VC	4	Rehab	8	26	2.46	7.00%	1247G1	B11S	La Jolla	1	
2965	COUNTRY CLUB	109	8	VC	0	Rehab	9	8	10.14	6.57%	1247G1	B11S	La Jolla	1	
2962	COUNTRY CLUB	216	8	VC	1	Rehab	6	9	20.17	0.40%	1247G1	B11S	La Jolla	1	
2960	COUNTRY CLUB	52	8	VC	0	Rehab	5	6	20.73	0.40%	1227G7	B11S	La Jolla	1	
2959	COUNTRY CLUB	292	8	VC	1	Rehab	3	5	12.07	3.83%	1227G7	B11S	La Jolla	1	
2957	COUNTRY CLUB	260	8	VC	0	P.R. & Rehab	2	3	16.29	1.16%	1227G7	B11S	La Jolla	1	
2956	COUNTRY CLUB	100	8	VC	4	Rehab	366	2	9.78	10.99%	1227G7	B11S	La Jolla	1	
3036	CAMTO VALVERDE	189	8	VC	0	Rehab	66	389	5.67	14.40%	1227H7	B11S	La Jolla	1	

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
2983	FAIRWAY	113	8	VC	3	Rehab	29	30	8.19	0.60%	1247G1	B11S	La Jolla	1	
2984	FAIRWAY	222	8	VC	5	Rehab	30	31	4.1	8.20%	1247G1	B11S	La Jolla	1	
2985	FAIRWAY	120	8	VC	4	Rehab	31	32	4.52	2.00%	1247G1	B11S	La Jolla	1	Install Cleanout
2869	CARRIZO	112	8	VC	3	Rehab	364	333		22.09%	1227G7	B10S	La Jolla	1	
2895	COUNTRY CLUB	97	8	VC	1	Rehab	358	359	6.85	0.70%	1227G7	B10S	La Jolla	1	
2896	COUNTRY CLUB	83	8	VC	0	P.R. & Rehab	359	360	6.68	0.70%	1227G7	B10S	La Jolla	1	
2897	CARRIZO	356	8	VC	5	Rehab	360	364		0.94%	1227G7	B10S	La Jolla	1	
2898	COUNTRY CLUB	206	8	VC	3	Rehab	366	365	1.43	6.20%	1227G7	B10S	La Jolla	1	
2958	MIMULUS	271	8	VC	4	Rehab	12	1		12.52%	1227G7	B11S	La Jolla	1	
2961	COUNTRY CLUB	202	8	VC	2	Rehab	6	4	2.34	14.07%	1227G7	B11S	La Jolla	1	
2963	ALLEY	23	8	CI	0	Rehab	8	7	5.78	64.13%	1247G1	B11S	La Jolla	1	
2964	ALLEY	132	8	VC	1	Rehab	7	24	7.5	21.08%	1247G1	B11S	La Jolla	1	
2967	EASEMENT AREA	95	8	VC	1	Rehab	10	23	3.4	20.01%	1247G1	B11S	La Jolla	1	
2968	EASEMENT AREA	372	8	VC	4	P.R. & Rehab	11	10	9.15	0.40%	1247G1	B11S	La Jolla	1	
2969	EASEMENT AREA	137	8	VC	1	P.R. & Rehab	14	11	3.71	21.61%	1227G7	B11S	La Jolla	1	
2971	EASEMENT AREA	200	8	VC	2	Rehab	14	422	1.13	34.30%	1227G7	B11S	La Jolla	1	Install Cleanout
2973	FAIRWAY	200	8	VC	3	Rehab	15	356	4.3	0.80%	1227G7	B11S	La Jolla	1	Install Cleanout
7825	ANGELL	137	8	VC	5	Rehab	257	258		1.03%	1228B5	C09S	University	1	Install Cleanout
7824	ANGELL	197	8	VC	5	Rehab	256	257		1.01%	1228B5	C09S	University	1	
7822	ANGELL	269	8	VC	4	Rehab	254	256	9.23	0.97%	1228B5	C09S	University	1	
7827	ARNOLDSON	197	8	VC	5	Rehab	264	265		0.40%	1228B5	C09S	University	1	Install Cleanout
7826	ARNOLDSON	134	8	VC	5	Rehab	264	263		0.40%	1228B5	C09S	University	1	Install Cleanout
7823	ARNOLDSON	336	8	VC	4	Rehab	255	264		0.89%	1228B5	C09S	University	1	
7821	BAJER	173	8	VC	4	Rehab	254	255	11.29	0.93%	1228B6	C09S	University	1	

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
7820	ANGELL	334	8	VC	8	Rehab	253	254	13.29	1.86%	1228B5	C09S	University	1	
7991	GOBAT	299	8	VC	10	Rehab	121	119		0.70%	1228B6	C10S	University	1	
7988	MOTT	185	8	VC	8	Rehab	115	117	7.91	0.40%	1228B6	C10S	University	1	Install Cleanout
7987	MOTT	313	8	VC	7	Rehab	114	115	10.59	0.40%	1228B6	C10S	University	1	
7986	NANSEN	249	8	VC	7	Rehab	113	114		0.60%	1228B6	C10S	University	1	
7963	BLOCH	156	8	VC	4	Rehab	93	92	5.7	0.90%	1228A6	C10S	University	1	Install Cleanout
7964	BLOCH	78	8	VC	3	Rehab	93	94	5.41	0.40%	1228A6	C10S	University	1	Install Cleanout
7966	QUIDDE	191	8	VC	2	Rehab	96	93	9.43	0.40%	1228A6	C10S	University	1	
7967	QUIDDE	300	8	VC	6	Rehab	97	96	10.36	0.80%	1228B6	C10S	University	1	
7968	QUIDDE	200	8	VC	4	Rehab	97	134	6.67	0.40%	1228B6	C10S	University	1	Install Cleanout
7969	QUIDDE	262	8	VC	5	Rehab	98	97	12.9	0.90%	1228B6	C10S	University	1	
7970	BARKLA	179	8	VC	4	Rehab	135	98	12.19	1.40%	1228B6	C10S	University	1	
8006	BARKLA	235	8	VC	3	Rehab	137	135	10.2	3.40%	1228B6	C10S	University	1	
7965	BLOCH	146	8	VC	5	Rehab	132	95	5.05	0.80%	1228A6	C10S	University	1	Install Cleanout
8011	BLOCH	160	8	VC	3	Rehab	140	132	5.88	2.00%	1228A6	C10S	University	1	
8012	BLOCH	38	8	VC	1	Rehab	140	141	3.74	0.40%	1228A6	C10S	University	1	Install Cleanout
8010	SODERBLOM	253	8	VC	2	Rehab	139	140	9.88	0.40%	1228A6	C10S	University	1	
8009	SODERBLOM	246	8	VC	7	Rehab	139	133	5.66	2.20%	1228B6	C10S	University	1	
8008	SODERBLOM	252	8	VC	4	Rehab	138	139	10.38	1.30%	1228A6	C10S	University	1	
8007	SODERBLOM	258	8	VC	4	Rehab	137	138	9.6	2.40%	1228B6	C10S	University	1	
8005	SODERBLOM	195	8	VC	3	Rehab	136	137	20.86	0.60%	1228B6	C10S	University	1	
8085	SODERBLOM	350	8	VC	5	Rehab	216	136	23.88	0.60%	1228B7	C10S	University	1	
8084	SODERBLOM	350	8	VC	5	Rehab	215	216	24.3	0.60%	1228B7	C10S	University	1	
8083	SODERBLOM	350	8	VC	4	Rehab	214	215		1.30%	1228B7	C10S	University	1	
8082	STRESEMANN	342	8	VC	4	Rehab	199	214		0.40%	1228B6	C10S	University	1	

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
8013	BLOCH	148	8	VC	4	Rehab	143	142	3.69	11.00%	1228A6	C10S	University	1	
8014	BLOCH	115	8	VC	4	Rehab	144	143	4.54	17.09%	1228A7	C10S	University	1	
8015	BLOCH	261	8	VC	5	Rehab	145	144	5.41	14.59%	1228A7	C10S	University	1	
8024	BLOCH	131	8	VC	4	Rehab	146	145	11.14	8.94%	1228A7	C10S	University	1	
8025	BLOCH	150	8	VC	4	Rehab	157	146	11.05	10.41%	1228A7	C10S	University	1	
8026	BLOCH	209	8	VC	7	Rehab	158	157	10.92	12.70%	1228A7	C10S	University	1	
8077	SAN CLEMENTE	221	8	VC	4	Rehab	212	213		6.71%	1228B7	C10S	University	1	Install Cleanout
8078	SAN CLEMENTE	178	8	VC	3	Rehab	211	212		4.40%	1228B7	C10S	University	1	
8079	SAN CLEMENTE	350	8	VC	6	Rehab	210	211	13.09	0.90%	1228B7	C10S	University	1	
8080	SAN CLEMENTE	70	8	VC	1	Rehab	209	210	7.4	11.30%	1228B7	C10S	University	1	
8081	SAN CLEMENTE	195	8	VC	3	Rehab	208	209	7.96	10.51%	1228B7	C10S	University	1	
8021	SAN CLEMENTE	131	8	VC	4	Rehab	152	208	9.51	8.07%	1228B7	C10S	University	1	
8069	SCHENLEY	314	8	VC	6	Rehab	206	205		4.40%	1228B7	C10S	University	1	
8068	SCHENLEY	336	8	VC	6	Rehab	207	206	12.39	0.80%	1228B7	C10S	University	1	
8067	SCHENLEY	342	8	VC	6	Rehab	154	207	16.55	0.70%	1228B7	C10S	University	1	
8022	SCHENLEY	92	8	VC	1	Rehab	152	154	10.89	4.35%	1228B7	C10S	University	1	
8023	SAN CLEMENTE	174	8	VC	4	Rehab	153	152	12.69	10.30%	1228B7	C10S	University	1	
8063	CURIE	120	8	VC	1	Rehab	185	186		6.02%	1228B7	C10S	University	1	Install Cleanout
8035	BLOCH	237	8	VC	5	Rehab	169	170	17.95	10.52%	1228B7	C10S	University	1	
8039	BLOCH	62	8	VC	0	Rehab	168	169	24.5	3.00%	1228B7	C10S	University	1	
8054	BOTHE	217	8	VC	3	Rehab	180	179		11.06%	1228B7	C10S	University	1	
8053	BOTHE	350	8	VC	6	Rehab	181	180	13.25	4.50%	1228B7	C10S	University	1	
12378	EASEMENT AREA	310	8	VC	0	P.R. & Rehab	20	36		2.20%	1228D1	D07S	University	1	
3215	AVNDA ANDORRA	140	8	VC	0	Rehab	273	274		0.66%	1247H1	B11S	La Jolla	1	
2592	SOLEDAD	70	8	VC	1	Rehab	42	41	15.1	1.29%	1227G6	B10S	La Jolla	1	
146	TORREY PINES	42	10	VC	0	Rehab	166	167		2.76%	1227G6	A10S	La Jolla	1	

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156	BLUEBIRD	70	8	VC	7	Rehab	178	179	10.4	7.26%	1227F6	A10S	La Jolla	1	Install Cleanout
17091	PRVT DRWY	155	8	VC	1	Rehab	179	180		0.40%	1228F6	E10s	University	1	Install Cleanout
17092	EASEMENT AREA	85	8	VC	0	Rehab	178	179		34.00%	1228F6	E10s	University	1	Referral
17093	EASEMENT AREA	73	8	VC	0	Rehab	177	178		26.33%	1228F6	E10s	University	1	
17094	EASEMENT AREA	73	8	VC	0	Rehab	181	177		48.49%	1228F6	E10s	University	1	
7536	VIA ALICANTE	111	8	VC	0	Rehab	299	12	9.5	8.06%	1228A4	C08S	University	1	Install Cleanout
7537	VIA ALICANTE	350	8	VC	2	Rehab	300	299	15.82	11.49%	1228A4	C08S	University	1	
7690	VIA MALLORCA	349	8	VC	2	Rehab	102	103	17.64	2.00%	1228A5	C09S	University	1	
5546076	VIA MALLORCA	103	8	VC	0	Rehab	558	102		1.94%	1228A5	C09S	La Jolla	1	
7633	VIA MALLORCA	272	8	VC	0	Rehab	45	46	19.6	2.57%	1228A5	C09S	University	1	
7632	VIA MALLORCA/EASEMENT	168	8	VC	0	Rehab	44	45	12.84	4.46%	1228A5	C09S	University	1	
7896	WOODFORD	146	8	VC	3	Rehab	23	71	10.91	0.40%	1228A6	C10S	La Jolla	1	Install Cleanout
7895	WOODFORD	275	8	VC	3	Rehab	22	23	11.01	1.99%	1228A6	C10S	La Jolla	1	
7899	REVELLE	150	8	VC	2	Rehab	24	22	10.83	2.29%	1228A6	C10S	La Jolla	1	
7900	REVELLE	104	8	VC	1	Rehab	25	24	11.43	4.02%	1228A6	C10S	La Jolla	1	
7897	LA JOLLA VISTA	36	8	VC	3	Rehab	26	27	10.41	3.64%	1228A6	C10S	La Jolla	1	Install Cleanout
8027	SAN CLEMENTE	312	8	VC	3	Rehab	158	156	3.4	2.58%	1228B7	C10S	University	1	
8028	SAN CLEMENTE	145	8	VC	4	Rehab	156	155	2.95	1.79%	1228B7	C10S	University	1	
8029	SAN CLEMENTE	193	8	VC	6	Rehab	155	153	4.1	4.81%	1228B7	C10S	University	1	
8032	BLOCH	220	8	VC	6	Rehab	159	158	5.8	8.80%	1228A7	C10S	University	1	
8033	BLOCH	282	8	VC	10	Rehab	170	159	6.28	10.56%	1228B7	C10S	University	1	
8036	BOTHE	114	8	VC	1	Rehab	168	173	2.72	1.84%	1228B7	C10S	University	1	
8037	BOTHE	120	8	VC	3	Rehab	173	174	4.61	8.40%	1228B7	C10S	University	1	
8051	BOTHE	62	8	VC	0	Rehab	174	175	5.23	12.81%	1228B7	C10S	University	1	
8052	BOTHE	264	8	VC	5	Rehab	175	181	4.19	6.80%	1228B7	C10S	University	1	

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
8055	BOTHE	154	8	VC	3	Rehab	179	188		11.12%	1228B7	C10S	University	1	
8056	BOTHE	148	8	VC	1	Rehab	188	187		10.73%	1228B7	C10S	University	1	
7898	LA JOLLA VISTA	187	8	VC	3	Rehab	25	26	0.27	9.29%	1228A6	C10S	La Jolla	1	
7901	REVELLE	151	8	VC	2	Rehab	28	25	0.48	4.11%	1227J6	C10S	La Jolla	1	
458	PRVT PROPERTY	60	8	UNK	0	Rehab	75	74	1.69	2.50%	1247E1	A11S	La Jolla	1	
469	PRVT PROPERTY	80	8	UNK	0	Rehab	74	72	1.43	2.01%	1247E1	A11S	La Jolla	1	
521	Genter St	307	10	VC	6	Rehab	182	177	3.24	4.24%	1227F7	A11S	La Jolla	1	
574	MARINE	187	8	VC	4	Rehab	164	160	1.91	4.96%	1227E7	A11S	La Jolla	1	
587	La Jolla Blvd.	110	8	VC	2	Rehab	801	169	1.16	2.00%	1227E7	A11S	La Jolla	1	Install Cleanout
617	FAY	190	8	VC	0	Rehab	220	221	8.07	37.90%	1247F2	A11S	La Jolla	1	
618	EASEMENT AREA	66	8	VC	1	Rehab	221	223	8.43	43.00%	1247F2	A11S	La Jolla	1	
752	BONAIR	145	8	VC	1	Rehab	396	394	1.15	2.30%	1247F1	A11S	La Jolla	1	Install Cleanout
754	BONAIR	244	8	VC	0	Rehab	398	397	2.12	3.00%	1247F1	A11S	La Jolla	1	
2974	FAIRWAY	163	8	VC	2	Rehab	16	15	0.82	0.80%	1227G7	B11S	La Jolla	1	
2976	FAIRWAY	73	8	VC	1	Rehab	19	20	1.22	0.82%	1227G7	B11S	La Jolla	1	
2977	FAIRWAY	79	8	VC	0	Rehab	19	17	3.56	4.29%	1227G7	B11S	La Jolla	1	
2980	FAIRWAY	224	8	VC	3	Rehab	20	21	0.94	0.40%	1247G1	B11S	La Jolla	1	
2981	FAIRWAY	275	8	VC	3	Rehab	21	22	0.94	0.40%	1247G1	B11S	La Jolla	1	
7983	Lamas St	35	8	VC	1	Rehab	109	110		7.00%	1228B6	C10S	La Jolla	1	Install Cleanout
7984	Nansen Ave	214	8	VC	6	Rehab	112	109		0.40%	1228B6	C10S	La Jolla	1	
7985	Nansen Ave	250	8	VC	7	Rehab	113	112		0.40%	1228B6	C10S	La Jolla	1	
8002	Gobat Ave	300	8	VC	7	Rehab	128	121		0.50%	1228B6	C10S	La Jolla	1	
8003	Lamas St	196	8	VC	8	Rehab	128	129		0.40%	1228B6	C10S	La Jolla	1	Install Cleanout
8038	BLOCH	185	8	VC	3	Rehab	168	176	12.06	1.70%	1228B7	C10s	University	1	
8049	BLOCH	350	8	VC	6	P.R. & Rehab	176	177	13.1	0.60%	1228B7	C10s	University	1	

FSN	STREET NAME	LENGTH	SIZE	MATLIERIAL	LATERALS	ACTION	DS MH ID	US MH ID	MAX d/D	SLOPE %	THOMAS BROTHERS	US FIELD BOOK PAGE	COMMUNITY	COUNCIL DISTRICT	REMARKS
8050	BLOCH	160	8	VC	4	Rehab	177	178	7.92	0.90%	1228B7	C10s	University	1	Install Cleanout
8034	CURIE	126	8	VC	1	Rehab	170	171	12.31	2.70%	1228B7	C10s	University	1	
8031	CURIE	157	8	VC	2	Rehab	171	172	15.32	1.00%	1228B7	C10s	University	1	
8030	CURIE	350	8	VC	5	Rehab	172	182	10.61	4.10%	1228B7	C10s	University	1	
8066	CURIE	293	8	VC	4	Rehab	182	183	9.11	4.60%	1228B7	C10s	University	1	
8065	CURIE	331	8	VC	6	Rehab	183	184	6.77	8.90%	1228B7	C10s	University	1	
8064	CURIE	243	8	VC	4	Rehab	184	185	-	6.21%	1228B7	C10s	University	1	
8016	BARKLA	156	8	VC	2	Rehab	145	147	8.69	10.00%	1228A7	C10s	University	1	
8017	BARKLA	96	8	VC	3	Rehab	147	148	7.96	10.90%	1228A7	C10s	University	1	
8018	BARKLA	252	8	VC	9	Rehab	148	149	8.13	5.10%	1228B7	C10s	University	1	
8019	BARKLA	120	8	VC	2	Rehab	149	150	5.91	3.00%	1228B7	C10s	University	1	
8020	BARKLA	90	8	VC	4	Rehab	150	151	3.97	5.90%	1228B7	C10s	University	1	Install Cleanout
8062	BOTHE	167	8	VC	4	Rehab	187	189	-	9.91%	1228B7	C10s	University	1	
8070	BOTHE	273	8	VC	8	Rehab	189	204	-	9.84%	1228B7	C10s	University	1	
8074	BOTHE	96	8	VC	3	Rehab	204	203	-	10.00%	1228B7	C10s	University	1	
8075	BOTHE	134	8	VC	3	Rehab	203	202	-	12.49%	1228B7	C10s	University	1	
8076	BOTHE	62	8	VC	3	Rehab	202	200	-	5.90%	1228B7	C10s	University	1	Install Cleanout
528	FAY AVE	225	10	VC	5	Rehab	184	187	3.01	1.00%	1247F1	A11S	La Jolla	1	
532	WEST MUIRLANDS,DR	440	8	VC	6	Rehab	189	191	4.26	2.80%	1247F1	A11S	La Jolla	1	
2678	LOOKOUT	220	8	VC	3	Rehab	127	139		22.70%	1227G6	B10s	La Jolla	1	
2990	NAUTILUS ST.	209	8	VC	2	Rehab	200	34	-	1.00%	1247G1	B11s	La Jolla	1	
686	NEPTUNE	14	8	VC	0	Rehab	311	312		6.93%	1247E1	A11S	La Jolla	1	
687	WESTBOURNE	158	8	VC	1	Rehab	311	313		10.43%	1247E1	A11S	La Jolla	1	

Total Sewer Rehabilitation	=	<u>41,846 ft</u>
		<u>7.93 mi</u>
Total Sewer Laterals	=	696
Total New Cleanout	=	33
Total Manhole Rehabilitation	=	44
Total Manhole Replacement	=	5

APPENDIX F

SEWER MANHOLES AND CLEANOUTS SCOPE OF WORK:

SEWER MANHOLE REPLACEMENT

Manhole FSN	Manhole ID	Sewer Main FSN	Fieldbook Page	MH Depth (ft)	STREET NAME	REMARKS
75932	93	7966	C10S	6	QUIDDE	
75971	132	8011	C10S	5	BLOCH	
76018	179	8054	C10S	11	BOTHE	
75875	22	7899	C10S	9	REVELLE	
69040	398	754	A11S	4.5	BONAIR	

SEWER MANHOLE REHAB

Manhole FSN	Manhole ID	Sewer Main FSN	Fieldbook Page	MH Depth (ft)	STREET NAME	REMARKS
68785	106	493	A11S	13	LA JOLLA	
68786	107	492	A11S	10	LA JOLLA	
69038	396	753	A11S	7	BONAIR	
68870	201	5480463	A11S	17	NAUTILUS	
5480465	715	5480463	A11S	16	NAUTILUS	
68863	194	536	A11S	10	WEST MUIRLANDS	
71280	115	3068	B11S	7	EASEMENT AREA	
71276	111	3076	B11S	8	AVNDA ANDORRA	
71306	143	3090	B11S	6	AVNDA ANDORRA	
69004	348	715	A11S	0	PLAYA DEL SUR/EASEMENT	
69002	431	716	A11S	7	PLAYA DEL SUR	
71059	310	2852	B10S	9	CAMTO CAPA	
71113	366	2956	B11S	6	COUNTRY CLUB	
71136	389	3036	B11S	12	CAMTO VALVERDE	
71199	30	2983	B11S	10	FAIRWAY	

Manhole FSN	Manhole ID	Sewer Main FSN	Fieldbook Page	MH Depth (ft)	STREET NAME	REMARKS
71170	1	2958	B11S	5	MIMULUS	
71192	23	2967	B11S	9	EASEMENT AREA	
71179	10	2968	B11S	7	EASEMENT AREA	
71180	11	2969	B11S	8	EASEMENT AREA	
71183	14	2971	B11S	5	MIMULUS/EASEMENT	
75960	121	7991	C10S	6	GOBAT	
75952	113	7986	C10S	6	NANSEN	
75974	135	8006	C10S	7	BARKLA	
75979	140	8010	C10S	5	SODERBLOM	
75975	136	8085	C10S	7	SODERBLOM	
76052	214	8082	C10S	6	SODERBLOM	
76047	209	8081	C10S	13	SAN CLEMENTE	
75993	154	8022	C10S	8	SCHENLEY	
76009	170	8035	C10S	8	BLOCH	
76019	180	8053	C10S	9	BOTHE	
75629	44	7632	C09S	13	VIA MALLORCA	
75994	155	8028	C10S	9	SAN CLEMENTE	
75992	153	8029	C10S	10	SAN CLEMENTE	
76027	188	8055	C10S	11	BOTHE	
76026	187	8056	C10S	9	BOTHE	
76016	177	8049	C10S	9	BLOCH	
76023	184	8065	C10S	8	CURIE	
75986	147	8016	C10S	9	BARKLA	
75988	149	8018	C10S	8	BARKLA	
70799	39	2588	B10S	11	SOLEDAD	

Manhole FSN	Manhole ID	Sewer Main FSN	Fieldbook Page	MH Depth (ft)	STREET NAME	REMARKS
75876	23	7896	C10S	15	WOODFORD	
75982	143	8014	C10S	5	BLOCH	
68854	184	528	A11S	6	FAY	
68856	187	528	A11S	8	FAY	

APPENDIX G

SEWER LATERAL REHABILITATION SCOPE OF WORK

Sewer Lateral Rehabilitation

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
1	169437	4	C09S	LFT OF RGT LL	34	2705	ANGELL	AV	1228B5
2	299750	4	C09S	LFT OF RGT LL	27	2729	ANGELL	AV	1228B5
3	169400	4	C09S	LFT OF RGT LL	37	2666	ANGELL	AV	1228B5
4	299801	4	C09S	LFT OF RGT LL	31	2656	ANGELL	AV	1228B5
5	299835	4	C09S	RGT OF LFT LL	42	2648	ANGELL	AV	1228B5
6	169342	4	C09S	RGT OF LFT LL	50	2741	ANGELL	AV	1228B5
7	169331	4	C09S	RGT OF LFT LL	37	2742	ANGELL	AV	1228B5
8	299876	4	C09S	LFT OF RGT LL	52	2640	ANGELL	AV	1228B5
9	169415	4	C09S	LFT OF RGT LL	37	2717	ANGELL	AV	1228B5
10	299729	4	C09S	LFT OF RGT LL	63	2726	ANGELL	AV	1228B5
11	299747	4	C09S	LFT OF RGT LL	45	2712	ANGELL	AV	1228B5
12	169448	4	C09S	LFT OF RGT LL	65	2667	ANGELL	AV	1228B5
13	299760	4	C09S	RGT OF LFT LL	32	2672	ANGELL	AV	1228B5
14	299826	4	C09S	LFT OF RGT LL	50	2651	ANGELL	AV	1228B5
15	169714	4	C09S	LFT OF RGT LL	21	2608	ANGELL	AV	1228B6
16	299936	4	C09S	RGT OF LFT LL	37	2624	ANGELL	AV	1228B6
17	299903	4	C09S	LFT OF RGT LL	41	2632	ANGELL	AV	1228B5
18	169675	4	C09S	LFT OF RGT LL	34	2627	ANGELL	AV	1228B6
19	169680	4	C09S	LOT LINE	41	2616	ANGELL	AV	1228B6
20	169751	4	C09S	RGT OF LFT LL	45	2611	ANGELL	AV	1228B6
21	299984	4	C09S	RGT OF LFT LL	50	2619	ANGELL	AV	1228B6
22	303114	6	A11S	LFT OF RGT LL	50	506	ARENAS	ST	1247E1
23	169486	4	C09S	LFT OF RGT LL	28	2751	ARNOLDSON	AV	1228B5
24	169501	4	C09S	RGT OF LFT LL	42	2744	ARNOLDSON	AV	1228B5
25	169590	4	C09S	LFT OF RGT LL	28	6165	ARNOLDSON	PL	1228B5
26	169652	4	C09S	LFT OF RGT LL	26	6149	ARNOLDSON	PL	1228B6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
27	169602	4	C09S	RGT OF LFT LL	38	6178	ARNOLDSON	PL	1228B6
28	169575	4	C09S	RGT OF LFT LL	38	2720	ARNOLDSON	AV	1228B5
29	169449	4	C09S	RGT OF LFT LL	33	2760	ARNOLDSON	AV	1228B5
30	299847	4	C09S	LFT OF RGT LL	34	2745	ARNOLDSON	AV	1228B5
31	299871	4	C09S	LFT OF RGT LL	34	2728	ARNOLDSON	AV	1228B5
32	299889	4	C09S	LFT OF RGT LL	43	6181	ARNOLDSON	PL	1228B5
33	299917	4	C09S	RGT OF LFT LL	37	2712	ARNOLDSON	AV	1228B5
34	169470	4	C09S	RGT OF LFT LL	34	2752	ARNOLDSON	AV	1228B5
35	169703	4	C09S	LFT OF RGT LL	26	2701	ARNOLDSON	AV	1228B6
36	299859	4	C09S	LFT OF RGT LL	39	2736	ARNOLDSON	AV	1228B5
37	169645	4	C09S	LFT OF RGT LL	20	6162	ARNOLDSON	PL	1228B6
38	299942	4	C09S	RGT OF LFT LL	48	2709	ARNOLDSON	AV	1228B6
39	174138	4	B11S	RGT OF LFT LL	16	6886	AVNDA ANDORRA		1247H1
40	174440	4	B11S	RGT OF LFT LL	71	6858	AVNDA ANDORRA		1247H1
41	175089	4	B11S	MANHOLE	28	6774	AVNDA ANDORRA		1247H1
42	175290	4	B11S	LFT OF RGT LL	38	6728	AVNDA ANDORRA		1247H1
43	304032	4	B11S	MANHOLE	15	6636	AVNDA ANDORRA		1247H1
44	175400	4	B11S	RGT OF LFT LL	42	6715	AVNDA ANDORRA		1247H1
45	175802	4	B11S	LFT OF RGT LL	48	6645	AVNDA ANDORRA		1247H1
46	175847	4	B11S	MANHOLE	36	6622	AVNDA ANDORRA		1247H1
47	303752	4	B11S	LFT OF RGT LL	36	6729	AVNDA ANDORRA		1247H1
48	303983	4	B11S	LFT OF RGT LL	50	6675	AVNDA ANDORRA		1247H1
49	303991	4	B11S	LFT OF RGT LL	51	6658	AVNDA ANDORRA		1247H1
50	303239	4	B11S	RGT OF LFT LL	36	6833	AVNDA ANDORRA		1247H1
51	303779	4	B11S	RGT OF LFT LL	44	6714	AVNDA ANDORRA		1247H1
52	174137	4	B11S	LFT OF RGT LL	10	6887	AVNDA ANDORRA		1247H1
53	174818	4	B11S	LFT OF RGT LL	30	6809	AVNDA ANDORRA		1247H1
54	303602	4	B11S	LFT OF RGT LL	30	6779	AVNDA ANDORRA		1247H1

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
55	303856	4	B11S	LFT OF RGT LL	49	6699	AVNDA ANDORRA		1247H1
56	304087	4	B11S	MANHOLE	10	6611	AVNDA ANDORRA		1247H1
57	174157	4	B11S	LFT OF RGT LL	15	6876	AVNDA ANDORRA		1247H1
58	174871	6	B11S	unset	0	6833	AVNDA ANDORRA		1247H1
59	175147	4	B11S	RGT OF LFT LL	45	6762	AVNDA ANDORRA		1247H1
60	175439	4	B11S	MANHOLE	120	6699	AVNDA ANDORRA		1247H1
61	303153	4	B11S	MANHOLE	14	6847	AVNDA ANDORRA		1247H1
62	303664	4	B11S	RGT OF LFT LL	42	6755	AVNDA ANDORRA		1247H1
63	303878	4	B11S	MANHOLE	10	6688	AVNDA ANDORRA		1247H1
64	174136	4	B11S	RGT OF LFT LL	32	6875	AVNDA ANDORRA		1247H1
65	174974	4	B11S	MANHOLE	21	6794	AVNDA ANDORRA		1247H1
66	175143	4	B11S	MANHOLE	19	6767	AVNDA ANDORRA		1247H1
67	175244	4	B11S	MANHOLE	5	6747	AVNDA ANDORRA		1247H1
68	175584	4	B11S	LFT OF RGT LL	46	6688	AVNDA ANDORRA		1247H1
69	303829	4	B11S	LFT OF RGT LL	45	6696	AVNDA ANDORRA		1247H1
70	174271	4	B11S	LFT OF RGT LL	45	6859	AVNDA ANDORRA		1247H1
71	174935	4	B11S	LFT OF RGT LL	31	6797	AVNDA ANDORRA		1247H1
72	175218	4	B11S	MANHOLE	32	6746	AVNDA ANDORRA		1247H1
73	175635	4	B11S	MANHOLE	10	6687	AVNDA ANDORRA		1247H1
74	303332	4	B11S	RGT OF LFT LL	42	6821	AVNDA ANDORRA		1247H1
75	303563	4	B11S	RGT OF LFT LL	47	6786	AVNDA ANDORRA		1247H1
76	303940	4	B11S	RGT OF LFT LL	42	6672	AVNDA ANDORRA		1247H1
77	303556	4	B11S	LFT OF RGT LL	35	6787	AVNDA ANDORRA		1247H1
78	175424	4	B11S	unset	0	6696	AVNDA ANDORRA		1247H1
79	376313	4	A11S	LOT LINE	5	6591	AVNDA WILFREDO		1247F2
80	305128	4	A11S	unset	0	6591	AVNDA WILFREDO		1247F2
81	169631	4	C09S	LFT OF RGT LL	42	6266	BAJER	ST	1228B6
82	299896	4	C09S	LFT OF RGT LL	34	6269	BAJER	ST	1228B5

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
83	299961	4	C09S	RGT OF LFT LL	39	6250	BAJER	ST	1228B6
84	171453	4	C10S	RGT OF LFT LL	35	5520	BARKLA	ST	1228B6
85	171757	4	C10S	RGT OF LFT LL	22	5412	BARKLA	ST	1228A7
86	171790	4	C10S	RGT OF LFT LL	29	5439	BARKLA	ST	1228B7
87	171800	4	C10S	LFT OF RGT LL	20	5455	BARKLA	ST	1228B7
88	171362	4	C10S	RGT OF LFT LL	52	5563	BARKLA	ST	1228B6
89	171730	4	C10S	LFT OF RGT LL	19	5477	BARKLA	ST	1228B7
90	301233	4	C10S	RGT OF LFT LL	94	5484	BARKLA	ST	1228B7
91	301261	4	C10S	RGT OF LFT LL	20	5428	BARKLA	ST	1228A7
92	171784	4	C10S	LFT OF RGT LL	32	5404	BARKLA	ST	1228A7
93	171766	4	C10S	LFT OF RGT LL	20	5471	BARKLA	ST	1228B7
94	301023	4	C10S	LFT OF RGT LL	40	5540	BARKLA	ST	1228B6
95	301133	4	C10S	LFT OF RGT LL	55	5503	BARKLA	ST	1228B6
96	301259	4	C10S	RGT OF LFT LL	14	5454	BARKLA	ST	1228B7
97	171779	4	C10S	LFT OF RGT LL	21	5431	BARKLA	ST	1228B7
98	301303	4	C10S	LFT OF RGT LL	35	5447	BARKLA	ST	1228B7
99	171771	4	C10S	LFT OF RGT LL	42	5423	BARKLA	ST	1228B7
100	171731	4	C10S	RGT OF LFT LL	36	5474	BARKLA	ST	1228B7
101	301262	4	C10S	RGT OF LFT LL	26	5464	BARKLA	ST	1228B7
102	301298	4	C10S	LFT OF RGT LL	27	5463	BARKLA	ST	1228B7
103	171411	4	C10S	LFT OF RGT LL	39	5543	BARKLA	ST	1228B6
104	171447	4	C10S	RGT OF LFT LL	49	5523	BARKLA	ST	1228B6
105	171721	4	C10S	RGT OF LFT LL	28	5436	BARKLA	ST	1228B7
106	171723	4	C10S	RGT OF LFT LL	19	5444	BARKLA	ST	1228B7
107	171735	4	C10S	RGT OF LFT LL	23	5420	BARKLA	ST	1228A7
108	301238	4	C10S	RGT OF LFT LL	9	5483	BARKLA	ST	1228B7
109	301228	4	C10S	LFT OF RGT LL	30	5489	BARKLA	ST	1228B7
110	279884	4	A11S	unset	0	418	BELVEDERE	ST	1247E1

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
111	374977	4	A11S	unset	0	450	BELVEDERE	ST	1247E1
112	279885	4	A11S	unset	0	402	BELVEDERE	ST	1247E1
113	374978	4	A11S	unset	0	440	BELVEDERE	ST	1247E1
114	374982	4	A11S	unset	0	410	BELVEDERE	ST	1247E1
115	279877	4	A11S	unset	0	458	BELVEDERE	ST	1247E1
116	374975	4	A11S	unset	0	458	BELVEDERE	ST	1247E1
117	279882	4	A11S	unset	0	424	BELVEDERE	ST	1247E1
118	171183	4	C10S	LFT OF RGT LL	44	5650	BLOCH	ST	1228A6
119	171564	4	C10S	LFT OF RGT LL	20	5585	BLOCH	ST	1228A7
120	171950	4	C10S	RGT OF LFT LL	27	5453	BLOCH	ST	1228A7
121	172569	4	C10S	RGT OF LFT LL	21	5264	BLOCH	ST	1228B7
122	172612	4	C10S	LFT OF RGT LL	31	5144	BLOCH	ST	1228B7
123	301166	4	C10S	RGT OF LFT LL	39	5575	BLOCH	ST	1228A7
124	301344	4	C10S	LFT OF RGT LL	25	5497	BLOCH	ST	1228A7
125	301457	4	C10S	RGT OF LFT LL	35	5452	BLOCH	ST	1228A7
126	301483	4	C10S	RGT OF LFT LL	26	5436	BLOCH	ST	1228A7
127	301656	4	C10S	LFT OF RGT LL	34	5389	BLOCH	ST	1228B7
128	301901	4	C10S	RGT OF LFT LL	20	5228	BLOCH	ST	1228B7
129	171273	4	C10S	LFT OF RGT LL	21	5643	BLOCH	ST	1228A6
130	171540	4	C10S	RGT OF LFT LL	57	5586	BLOCH	ST	1228A6
131	171939	4	C10S	RGT OF LFT LL	33	5484	BLOCH	ST	1228A7
132	172411	4	C10S	LFT OF RGT LL	17	5345	BLOCH	ST	1228B7
133	172542	4	C10S	RGT OF LFT LL	25	5290	BLOCH	ST	1228B7
134	172584	4	C10S	RGT OF LFT LL	28	5252	BLOCH	ST	1228B7
135	300988	4	C10S	RGT OF LFT LL	39	5626	BLOCH	ST	1228A6
136	301397	4	C10S	LFT OF RGT LL	20	5469	BLOCH	ST	1228A7
137	301888	4	C10S	RGT OF LFT LL	26	5154	BLOCH	ST	1228B7
138	171346	4	C10S	RGT OF LFT LL	38	5621	BLOCH	ST	1228A6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
139	172373	4	C10S	RGT OF LFT LL	24	5364	BLOCH	ST	1228A7
140	172642	4	C10S	LFT OF RGT LL	8	5114	BLOCH	ST	1228B7
141	300950	4	C10S	MANHOLE	140	5638	BLOCH	ST	1228A6
142	301197	4	C10S	RGT OF LFT LL	94	5555	BLOCH	ST	1228A7
143	301751	4	C10S	LFT OF RGT LL	20	5317	BLOCH	ST	1228B7
144	301767	4	C10S	RGT OF LFT LL	27	5303	BLOCH	ST	1228B7
145	301833	4	C10S	RGT OF LFT LL	25	5278	BLOCH	ST	1228B7
146	171311	4	C10S	RGT OF LFT LL	49	5631	BLOCH	ST	1228A6
147	172273	4	C10S	RGT OF LFT LL	22	5384	BLOCH	ST	1228A7
148	172471	4	C10S	RGT OF LFT LL	24	5334	BLOCH	ST	1228B7
149	172647	4	C10S	RGT OF LFT LL	42	5124	BLOCH	ST	1228B7
150	301039	4	C10S	RGT OF LFT LL	45	5602	BLOCH	ST	1228A6
151	301716	4	C10S	RGT OF LFT LL	37	5359	BLOCH	ST	1228B7
152	301731	4	C10S	RGT OF LFT LL	24	5354	BLOCH	ST	1228A7
153	172009	4	C10S	RGT OF LFT LL	36	5437	BLOCH	ST	1228B7
154	172070	4	C10S	LFT OF RGT LL	23	5421	BLOCH	ST	1228A7
155	172583	4	C10S	LFT OF RGT LL	21	5104	BLOCH	ST	1228B7
156	172627	4	C10S	LFT OF RGT LL	31	5204	BLOCH	ST	1228B7
157	301897	4	C10S	RGT OF LFT LL	28	5194	BLOCH	ST	1228B7
158	171364	4	C10S	LFT OF RGT LL	44	5614	BLOCH	ST	1228A6
159	172504	4	C10S	RGT OF LFT LL	22	5314	BLOCH	ST	1228B7
160	172631	4	C10S	RGT OF LFT LL	27	5216	BLOCH	ST	1228B7
161	301527	4	C10S	RGT OF LFT LL	39	5405	BLOCH	ST	1228B7
162	301563	4	C10S	RGT OF LFT LL	21	5404	BLOCH	ST	1228A7
163	301882	4	C10S	LFT OF RGT LL	32	5134	BLOCH	ST	1228B7
164	301892	4	C10S	LFT OF RGT LL	28	5174	BLOCH	ST	1228B7
165	301894	4	C10S	RGT OF LFT LL	31	5184	BLOCH	ST	1228B7
166	171049	4	C10S	RGT OF LFT LL	37	5722	BLOCH	ST	1228A6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
167	171086	4	C10S	LFT OF RGT LL	24	5724	BLOCH	ST	1228B6
168	171099	4	C10S	RGT OF LFT LL	52	5710	BLOCH	ST	1228A6
169	171196	4	C10S	LFT OF RGT LL	52	5655	BLOCH	ST	1228A6
170	171592	4	C10S	RGT OF LFT LL	24	5576	BLOCH	ST	1228A7
171	171888	4	C10S	LFT OF RGT LL	28	5483	BLOCH	ST	1228A7
172	172213	4	C10S	RGT OF LFT LL	22	5394	BLOCH	ST	1228A7
173	172445	4	C10S	RGT OF LFT LL	26	5344	BLOCH	ST	1228B7
174	172595	4	C10S	LFT OF RGT LL	28	5240	BLOCH	ST	1228B7
175	301360	4	C10S	RGT OF LFT LL	16	5496	BLOCH	ST	1228A7
176	301384	4	C10S	RGT OF LFT LL	41	5484	BLOCH	ST	1228A7
177	301528	4	C10S	RGT OF LFT LL	24	5420	BLOCH	ST	1228A7
178	301682	4	C10S	RGT OF LFT LL	21	5374	BLOCH	ST	1228A7
179	301701	4	C10S	RGT OF LFT LL	42	5373	BLOCH	ST	1228B7
180	301891	4	C10S	LFT OF RGT LL	28	5164	BLOCH	ST	1228B7
181	171048	4	C10S	RGT OF LFT LL	26	5737	BLOCH	ST	1228B6
182	171474	4	C10S	LFT OF RGT LL	48	5596	BLOCH	ST	1228A6
183	172426	4	C10S	RGT OF LFT LL	38	5331	BLOCH	ST	1228B7
184	172490	4	C10S	RGT OF LFT LL	27	5324	BLOCH	ST	1228B7
185	172533	4	C10S	LFT OF RGT LL	41	5304	BLOCH	ST	1228B7
186	300893	4	C10S	LFT OF RGT LL	52	5662	BLOCH	ST	1228A6
187	171606	4	C10S	RGT OF LFT LL	24	5566	BLOCH	ST	1228A7
188	171641	4	C10S	RGT OF LFT LL	21	5556	BLOCH	ST	1228A7
189	171680	4	C10S	RGT OF LFT LL	24	5546	BLOCH	ST	1228A7
190	301249	4	C10S	RGT OF LFT LL	19	5538	BLOCH	ST	1228A7
191	301273	4	C10S	RGT OF LFT LL	15	5530	BLOCH	ST	1228A7
192	301297	4	C10S	RGT OF LFT LL	22	5522	BLOCH	ST	1228A7
193	301315	4	C10S	RGT OF LFT LL	22	5514	BLOCH	ST	1228A7
194	171853	4	C10S	RGT OF LFT LL	15	5506	BLOCH	ST	1228A7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
195	5057828	4	A10S	MANHOLE	20	1526	BLUEBIRD	LN	1227F6
196	176411	4	A11S	MANHOLE	144	745	BONAIR	ST	1247F1
197	176579	4	A11S	MANHOLE	65	552	BONAIR	ST	1247F1
198	176661	4	A11S	MANHOLE	142	605	BONAIR	ST	1247F1
199	176392	4	A11S	MANHOLE	100	751	BONAIR	ST	1247F1
200	304538	4	A11S	RGT OF LFT LL	6	644	BONAIR	ST	1247F1
201	176431	4	A11S	MANHOLE	143	735	BONAIR	ST	1247F1
202	176267	4	A11S	MANHOLE	105	750	BONAIR	ST	1247F1
203	376291	4	A11S	MANHOLE	119	754	BONAIR	ST	1247F1
204	5436820	4	A11S	MANHOLE	125	745	BONAIR	ST	1227F7
205	172392	4	C10S	RGT OF LFT LL	28	5303	BOTHE	AV	1228B7
206	301326	4	C10S	RGT OF LFT LL	34	5421	BOTHE	AV	1228B7
207	301571	4	C10S	RGT OF LFT LL	27	5343	BOTHE	AV	1228B7
208	171647	4	C10S	LFT OF RGT LL	20	5489	BOTHE	AV	1228B7
209	172083	4	C10S	unset	0	5363	BOTHE	AV	1228B7
210	172486	4	C10S	RGT OF LFT LL	55	5120	BOTHE	AV	1228B7
211	301480	4	C10S	RGT OF LFT LL	37	5360	BOTHE	AV	1228B7
212	171668	4	C10S	RGT OF LFT LL	25	5475	BOTHE	AV	1228B7
213	171785	4	C10S	LFT OF RGT LL	31	5437	BOTHE	AV	1228B7
214	171932	4	C10S	RGT OF LFT LL	48	5396	BOTHE	AV	1228B7
215	172015	4	C10S	RGT OF LFT LL	27	5373	BOTHE	AV	1228B7
216	172493	4	C10S	RGT OF LFT LL	29	5145	BOTHE	AV	1228B7
217	301398	4	C10S	RGT OF LFT LL	33	5393	BOTHE	AV	1228B7
218	301741	4	C10S	LFT OF RGT LL	10	5255	BOTHE	AV	1228B7
219	171673	4	C10S	RGT OF LFT LL	40	5474	BOTHE	AV	1228B7
220	172400	4	C10S	LFT OF RGT LL	30	5295	BOTHE	AV	1228B7
221	172428	4	C10S	RGT OF LFT LL	28	5245	BOTHE	AV	1228B7
222	301773	4	C10S	RGT OF LFT LL	36	5177	BOTHE	AV	1228B7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
223	301818	4	C10S	RGT OF LFT LL	67	5115	BOTHE	AV	1228B7
224	172437	4	C10S	RGT OF LFT LL	27	5225	BOTHE	AV	1228B7
225	172464	4	C10S	RGT OF LFT LL	37	5205	BOTHE	AV	1228B7
226	172531	4	C10S	LFT OF RGT LL	32	5106	BOTHE	AV	1228B7
227	301791	4	C10S	LFT OF RGT LL	35	5131	BOTHE	AV	1228B7
228	172381	4	C10S	LFT OF RGT LL	29	5313	BOTHE	AV	1228B7
229	172455	4	C10S	RGT OF LFT LL	34	5215	BOTHE	AV	1228B7
230	301243	4	C10S	LFT OF RGT LL	23	5469	BOTHE	AV	1228B7
231	301366	4	C10S	LFT OF RGT LL	24	5407	BOTHE	AV	1228B7
232	301463	4	C10S	unset	0	5378	BOTHE	AV	1228B7
233	301539	4	C10S	LFT OF RGT LL	30	5353	BOTHE	AV	1228B7
234	301693	4	C10S	LFT OF RGT LL	30	5323	BOTHE	AV	1228B7
235	171737	4	C10S	RGT OF LFT LL	34	5454	BOTHE	AV	1228B7
236	171782	4	C10S	RGT OF LFT LL	44	5434	BOTHE	AV	1228B7
237	171861	4	C10S	RGT OF LFT LL	48	5414	BOTHE	AV	1228B7
238	171966	4	C10S	RGT OF LFT LL	32	5383	BOTHE	AV	1228B7
239	172407	4	C10S	LFT OF RGT LL	29	5285	BOTHE	AV	1228B7
240	172488	4	C10S	LFT OF RGT LL	23	5159	BOTHE	AV	1228B7
241	301536	4	C10S	LFT OF RGT LL	40	5342	BOTHE	AV	1228B7
242	301734	4	C10S	LFT OF RGT LL	30	5265	BOTHE	AV	1228B7
243	172416	4	C10S	RGT OF LFT LL	31	5275	BOTHE	AV	1228B7
244	172433	4	C10S	LFT OF RGT LL	29	5235	BOTHE	AV	1228B7
245	172483	4	C10S	RGT OF LFT LL	25	5163	BOTHE	AV	1228B7
246	301275	4	C10S	LFT OF RGT LL	35	5453	BOTHE	AV	1228B7
247	301768	4	C10S	RGT OF LFT LL	32	5191	BOTHE	AV	1228B7
248	173134	4	B11S	LFT OF RGT LL	7	2097	CAMTO CAPA		1227H7
249	Sewer FSN 2852		B10S			2007	CAMTO CAPA		1227H7
250	Sewer FSN 3041		B11S			2017	CAMTO CAPA		1227H7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
251	Sewer FSN 3041		B11S			2027	CAMTO CAPA		1227H7
252	Sewer FSN 3042		B11S			2037	CAMTO CAPA		1227H7
253	Sewer FSN 3042		B11S			2047	CAMTO CAPA		1227H7
254	Sewer FSN 3042		B11S			2057	CAMTO CAPA		1227H7
255	Sewer FSN 3042		B11S			2067	CAMTO CAPA		1227H7
256	Sewer FSN 3043		B11S			2077	CAMTO CAPA		1227H7
257	Sewer FSN 3043		B11S			2097	CAMTO CAPA		1227H7
258	168555	8	C09S	unset	0	8004	CAMTO GIANNA		1228A5
259	5600227	8	C09S	MANHOLE	1	8004	CAMTO GIANNA		1228A5
260	172926	4	B11S	MANHOLE	3	1843	CAMTO MARZELLA		1227H7
261	302139	4	B11S	MANHOLE	35	1875	CAMTO MARZELLA		1227H7
262	172931	4	B11S	MANHOLE	41	1851	CAMTO MARZELLA		1227H7
263	172969	4	B11S	MANHOLE	84	1891	CAMTO MARZELLA		1227H7
264	302124	4	B11S	MANHOLE	112	1859	CAMTO MARZELLA		1227H7
265	302155	4	B11S	MANHOLE	26	1883	CAMTO MARZELLA		1227H7
266	172939	4	B11S	MANHOLE	103	1867	CAMTO MARZELLA		1227H7
267	301729	4	B10S	MANHOLE	68	7285	CARRIZO	DR	1227G7
268	172624	4	B10S	MANHOLE	179	7259	CARRIZO	DR	1227G7
269	301926	4	B10S	unset	0	7258	CARRIZO	DR	1227G7
270	172559	4	B10S	MANHOLE	35	7249	CARRIZO	DR	1227G7
271	172799	4	B10S	MANHOLE	5	7244	CARRIZO	DR	1227G7
272	378449	4	B10S	MANHOLE	36	7241	CARRIZO	DR	1227G7
273	172690	4	B10S	MANHOLE	134	7252	CARRIZO	DR	1227G7
274	301937	4	B10S	MANHOLE	86	7244	CARRIZO	DR	1227G7
275	5489264	4	B10S	MANHOLE	15	7238	CARRIZO	DR	1227G7
276	172582	4	B10S	MANHOLE	80	7270	CARRIZO	DR	1227G7
277	173430	4	B11S	MANHOLE	57	7105	COUNTRY CLUB	DR	1227G7
278	173910	4	B11S	unset	0	7007	COUNTRY CLUB	DR	1247G1

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
279	173460	4	B11S	MANHOLE	97	7001	COUNTRY CLUB	DR	1227G7
280	302086	4	B11S	MANHOLE	77	7151	COUNTRY CLUB	DR	1227G7
281	302376	4	B11S	MANHOLE	23	7108	COUNTRY CLUB	DR	1227G7
282	302422	4	B11S	MANHOLE	114	7108	COUNTRY CLUB	DR	1227G7
283	173696	4	B11S	MANHOLE	21	7050	COUNTRY CLUB	DR	1247G1
284	174426	4	B11S	RGT OF LFT LL	5	6829	COUNTRY CLUB	DR	1247G1
285	174068	4	B11S	MANHOLE	78	6919	COUNTRY CLUB	DR	1247G1
286	301970	4	B10S	MANHOLE	31	7195	COUNTRY CLUB	DR	1227G7
287	302058	4	B11S	RGT OF LFT LL	16	7157	COUNTRY CLUB	DR	1227G7
288	303089	4	B11S	MANHOLE	68	6849	COUNTRY CLUB	DR	1247G1
289	301900	4	B10S	MANHOLE	100	7229	COUNTRY CLUB	DR	1227G7
290	172719	4	B10S	MANHOLE	18	7201	COUNTRY CLUB	DR	1227G7
291	172760	4	B10S	unset	0	7171	COUNTRY CLUB	DR	1227G7
292	172884	4	B11S	unset	0	7202	COUNTRY CLUB	DR	1227G7
293	302019	4	B10S	MANHOLE	40	7161	COUNTRY CLUB	DR	1227G7
294	302347	4	B11S	MANHOLE	69	7123	COUNTRY CLUB	DR	1227G7
295	302544	4	B11S	RGT OF LFT LL	62	7106	COUNTRY CLUB	DR	1227G7
296	302955	4	B11S	MANHOLE	122	6889	COUNTRY CLUB	DR	1247G1
297	173609	4	B11S	MANHOLE	33	7102	COUNTRY CLUB	DR	1247G1
298	173767	4	B11S	MANHOLE	28	6947	COUNTRY CLUB	DR	1247G1
299	378452	4	B11S	MANHOLE	16	7151	COUNTRY CLUB	DR	1227G7
300	172298	4	C10S	LFT OF RGT LL	35	2635	CURIE	PL	1228B7
301	301714	4	C10S	LFT OF RGT LL	46	2535	CURIE	PL	1228B7
302	172211	4	C10S	RGT OF LFT LL	77	2797	CURIE	PL	1228B7
303	172217	4	C10S	LFT OF RGT LL	36	2727	CURIE	PL	1228B7
304	301621	4	C10S	LFT OF RGT LL	27	2707	CURIE	PL	1228B7
305	301654	4	C10S	LFT OF RGT LL	35	2645	CURIE	PL	1228B7
306	301655	4	C10S	RGT OF LFT LL	32	2675	CURIE	PL	1228B7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
307	172201	4	C10S	LFT OF RGT LL	33	2763	CURIE	PL	1228B7
308	301590	4	C10S	LFT OF RGT LL	33	2751	CURIE	PL	1228B7
309	301690	4	C10S	LFT OF RGT LL	42	2575	CURIE	PL	1228B7
310	301694	4	C10S	LFT OF RGT LL	47	2555	CURIE	PL	1228B7
311	172326	4	C10S	LFT OF RGT LL	34	2605	CURIE	PL	1228B7
312	301578	4	C10S	LFT OF RGT LL	35	2775	CURIE	PL	1228B7
313	301601	4	C10S	RGT OF LFT LL	31	2739	CURIE	PL	1228B7
314	301687	4	C10S	RGT OF LFT LL	34	2595	CURIE	PL	1228B7
315	378448	4	C10S	LOT LINE	32	2665	CURIE	PL	1228B7
316	172312	4	C10S	LFT OF RGT LL	34	2625	CURIE	PL	1228B7
317	301745	4	C10S	RGT OF LFT LL	53	2515	CURIE	PL	1228B7
318	172318	4	C10S	LFT OF RGT LL	32	2615	CURIE	PL	1228B7
319	376207	4	C10S	LOT LINE	32	2695	CURIE	PL	1228B7
320	172229	4	C10S	RGT OF LFT LL	31	2717	CURIE	PL	1228B7
321	301646	4	C10S	LFT OF RGT LL	33	2655	CURIE	PL	1228B7
322	376208	4	C10S	LOT LINE	32	2685	CURIE	PL	1228B7
323	302274	4	A11S	MANHOLE	77	7335	CUVIER	ST	1227E7
324	Sewer FSN 17091		E10S			5747	ERLANGER	ST	1228F6
325	172715	4	B10S	LFT OF RGT LL	46	7247	FAIRWAY	RD	1227G7
326	173025	4	B11S	unset	0	7180	FAIRWAY	RD	1227G7
327	303124	4	B11S	MANHOLE	8	6970	FAIRWAY	RD	1247G1
328	174874	4	B11S	LFT OF RGT LL	39	6910	FAIRWAY	RD	1247G1
329	301841	4	B10S	RGT OF LFT LL	50	7303	FAIRWAY	RD	1227G7
330	172301	4	B10S	MANHOLE	50	7363	FAIRWAY	RD	1227G7
331	172397	4	B10S	LFT OF RGT LL	64	7343	FAIRWAY	RD	1227G7
332	172607	4	B10S	RGT OF LFT LL	12	7267	FAIRWAY	RD	1227G7
333	302093	4	B11S	MANHOLE	6	7207	FAIRWAY	RD	1227G7
334	172494	4	B10S	LFT OF RGT LL	53	7323	FAIRWAY	RD	1227G7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
335	172785	4	B10S	LFT OF RGT LL	45	7227	FAIRWAY	RD	1227G7
336	173531	4	B11S	MANHOLE	5	7105	FAIRWAY	RD	1247G1
337	173743	4	B11S	MANHOLE	115	7075	FAIRWAY	RD	1247G1
338	173893	4	B11S	LFT OF RGT LL	33	7051	FAIRWAY	RD	1247G1
339	174589	4	B11S	MANHOLE	62	6949	FAIRWAY	RD	1247G1
340	302999	4	B11S	RGT OF LFT LL	63	7030	FAIRWAY	RD	1247G1
341	303232	4	B11S	LFT OF RGT LL	60	6950	FAIRWAY	RD	1247G1
342	173902	4	B11S	RGT OF LFT LL	14	7070	FAIRWAY	RD	1247G1
343	303363	4	B11S	LFT OF RGT LL	56	6929	FAIRWAY	RD	1247G1
344	174799	4	B11S	RGT OF LFT LL	65	6930	FAIRWAY	RD	1247G1
345	302461	4	B11S	MANHOLE	78	7125	FAIRWAY	RD	1227G7
346	303036	4	B11S	LFT OF RGT LL	40	7001	FAIRWAY	RD	1247G1
347	303441	4	B11S	RGT OF LFT LL	14	6909	FAIRWAY	RD	1247G1
348	173187	4	B11S	MANHOLE	51	7136	FAIRWAY	RD	1227G7
349	302148	4	B11S	RGT OF LFT LL	56	7185	FAIRWAY	RD	1227G7
350	303331	4	B11S	MANHOLE	38	6930	FAIRWAY	RD	1247G1
351	1129048	4	B11S	LFT OF RGT LL	30	6930	FAIRWAY	RD	1247G1
352	173281	4	B11S	LFT OF RGT LL	39	7145	FAIRWAY	RD	1227G7
353	172619	4	B10S	unset	0	7267	FAIRWAY	RD	1227G7
354	174329	4	B11S	RGT OF LFT LL	17	6969	FAIRWAY	RD	1247G1
355	301544	4	A10S	unset	0	7383	FAIRWAY	RD	1227G7
356	172413	4	A10S	LFT OF RGT LL	52	7475	FAY	AV	1227F7
357	174398	6	A11S	RGT OF LFT LL	317	7123	FAY	AV	1247F1
358	5467142	6	A11S	RGT OF LFT LL	270	7123	FAY	AV	1247F1
359	303002	6	A11S	RGT OF LFT LL	195	7123	FAY	AV	1247F1
360	174219	6	A11S	unset	0		FAY	AV	1247F1
361	303144	6	A11S	unset	0		FAY	AV	1247F1
362	279878	4	A11S	unset	0	410	FERN GLEN		1247E1

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
363	374972	4	A11S	unset	0	454	FERN GLEN		1247E1
364	279875	4	A11S	unset	0	454	FERN GLEN		1247E1
365	374974	4	A11S	unset	0	444	FERN GLEN		1247E1
366	175006	4	A11S	unset	0	454	FERN GLEN		1247E1
367	175131	4	A11S	unset	0	410	FERN GLEN		1247E1
368	279881	4	A11S	unset	0	369	FERN GLEN		1247E1
369	173410	4	A11S	RGT OF LFT LL	175	925	GENTER	ST	1247F1
370	173328	4	A11S	MANHOLE	85	916	GENTER	ST	1227F7
371	302525	4	A11S	RGT OF LFT LL	51	1001	GENTER	ST	1247F1
372	302529	4	A11S	MANHOLE	4	1001	GENTER	ST	1247F1
373	5512141	8	A11S	MANHOLE	0	0	GENTER	ST	1227F7
374	302475	4	A11S	MANHOLE	110	915	GENTER	ST	1247F1
375	5512140	4	A11S	MANHOLE	35	1001	GENTER	ST	1227F7
376	5467830	4	A11S	MANHOLE	160	924	GENTER	ST	1227F7
377	173327	4	A11S	LFT OF RGT LL	20	935	GENTER	ST	1227F7
378	173514	4	A11S	RGT OF LFT LL	75	1001	GENTER	ST	1247F1
379	173274	6	A11S	unset	0	7253	GIRARD	AV	1227F7
380	173315	4	A11S	unset	0	7253	GIRARD	AV	1227F7
381	172417	4	A10S	MANHOLE	104	7454	GIRARD	AV	1227F7
382	173373	4	A11S	MANHOLE	12	7253	GIRARD	AV	1227F7
383	170441	4	C10S	RGT OF LFT LL	39	2681	GOBAT	AV	1228B6
384	300320	4	C10S	LFT OF RGT LL	36	2772	GOBAT	AV	1228B6
385	300379	4	C10S	RGT OF LFT LL	36	2722	GOBAT	AV	1228B6
386	300411	4	C10S	LFT OF RGT LL	29	2775	GOBAT	AV	1228B6
387	300430	4	C10S	LFT OF RGT LL	34	2707	GOBAT	AV	1228B6
388	170286	4	C10S	RGT OF LFT LL	28	2742	GOBAT	AV	1228B6
389	300394	4	C10S	RGT OF LFT LL	27	2702	GOBAT	AV	1228B6
390	300408	4	C10S	LFT OF RGT LL	44	2763	GOBAT	AV	1228B6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
391	300417	4	C10S	LFT OF RGT LL	36	2729	GOBAT	AV	1228B6
392	170289	4	C10S	RGT OF LFT LL	24	2752	GOBAT	AV	1228B6
393	170296	4	C10S	LFT OF RGT LL	25	2732	GOBAT	AV	1228B6
394	170369	4	C10S	LFT OF RGT LL	19	2753	GOBAT	AV	1228B6
395	170403	4	C10S	LFT OF RGT LL	20	2717	GOBAT	AV	1228B6
396	300410	4	C10S	RGT OF LFT LL	32	2743	GOBAT	AV	1228B6
397	300466	4	C10S	LFT OF RGT LL	33	2616	GOBAT	AV	1228B6
398	170451	4	C10S	RGT OF LFT LL	27	2671	GOBAT	AV	1228B6
399	170481	4	C10S	LFT OF RGT LL	31	2604	GOBAT	AV	1228B6
400	170557	4	C10S	LFT OF RGT LL	60	2625	GOBAT	AV	1228B6
401	170290	4	C10S	RGT OF LFT LL	24	2762	GOBAT	AV	1228B6
402	170326	4	C10S	LFT OF RGT LL	24	2712	GOBAT	AV	1228B6
403	300409	4	C10S	RGT OF LFT LL	25	2676	GOBAT	AV	1228B6
404	170236	4	C10S	RGT OF LFT LL	40	2806	GOBAT	AV	1228B6
405	174249	4	B11S	RGT OF LFT LL	51	2391	KING ARTHUR	CT	1247J1
406	174119	4	B11S	RGT OF LFT LL	33	2390	KING ARTHUR	CT	1247J1
407	174267	4	B11S	RGT OF LFT LL	46	2377	KING ARTHUR	CT	1247J1
408	302966	4	B11S	RGT OF LFT LL	37	2321	KING ARTHUR	CT	1247H1
409	303007	4	B11S	MANHOLE	206	2336	KING ARTHUR	CT	1247H1
410	174313	4	B11S	RGT OF LFT LL	14	2335	KING ARTHUR	CT	1247H1
411	303094	4	B11S	RGT OF LFT LL	8	2349	KING ARTHUR	CT	1247H1
412	173998	4	B11S	LFT OF RGT LL	36	2308	KING ARTHUR	CT	1247H1
413	174307	4	B11S	RGT OF LFT LL	25	2363	KING ARTHUR	CT	1247H1
414	302839	4	B11S	LFT OF RGT LL	26	2307	KING ARTHUR	CT	1247H1
415	302961	4	B11S	LFT OF RGT LL	42	2366	KING ARTHUR	CT	1247H1
416	174125	4	A11S	unset	0	7228	LA JOLLA	BL	1247E1
417	303324	4	A11S	LFT OF RGT LL	110	7132	LA JOLLA	BL	1247E1
418	173136	4	A11S	LFT OF RGT LL	38	7401	LA JOLLA	BL	1227E7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
419	303510	6	A11S	LFT OF RGT LL	50	7109	LA JOLLA	BL	1247E1
420	374973	4	A11S	LFT OF RGT LL	86	7104	LA JOLLA	BL	1247E1
421	302925	4	A11S	unset	0	7232	LA JOLLA	BL	1247E1
422	177219	8	A11S	unset	0	6738	LA JOLLA	BL	1247E2
423	303292	4	A11S	unset	0	7137	LA JOLLA	BL	1247E1
424	376251	4	A11S	unset	0	7140	LA JOLLA	BL	1247E1
425	303455	4	A11S	unset	0	7112	LA JOLLA	BL	1247E1
426	173088	4	A11S	LFT OF RGT LL	90	7403	LA JOLLA	BL	1227E7
427	174312	4	A11S	RGT OF LFT LL	50	7205	LA JOLLA	BL	1247E1
428	174724	4	A11S	LFT OF RGT LL	160	7124	LA JOLLA	BL	1247E1
429	303439	4	A11S	RIGHT OF WAY	240	7118	LA JOLLA	BL	1247E1
430	303269	4	A11S	RGT OF LFT LL	50	7143	LA JOLLA	BL	1247E1
431	170310	4	C10S	unset	0	7845	LA JOLLA VISTA	DR	1228A6
432	300245	4	C10S	MANHOLE	39	7867	LA JOLLA VISTA	DR	1228A6
433	300294	4	C10S	MANHOLE	74	7866	LA JOLLA VISTA	DR	1227J6
434	300309	4	C10S	MANHOLE	21	7855	LA JOLLA VISTA	DR	1228A6
435	300362	4	C10S	RGT OF LFT LL	20	7845	LA JOLLA VISTA	DR	1228A6
436	170328	4	C10S	unset	0	7835	LA JOLLA VISTA	DR	1228A6
437	170727	4	C10S	LFT OF RGT LL	28	5743	LAMAS	ST	1228B6
438	170094	4	C10S	RGT OF LFT LL	30	5864	LAMAS	ST	1228B6
439	170108	4	C10S	LFT OF RGT LL	22	5865	LAMAS	ST	1228B6
440	170173	4	C10S	LFT OF RGT LL	27	5855	LAMAS	ST	1228B6
441	170092	4	C10S	RGT OF LFT LL	21	5875	LAMAS	ST	1228B6
442	170093	4	C10S	RGT OF LFT LL	19	5874	LAMAS	ST	1228B6
443	300289	4	C10S	LFT OF RGT LL	35	5854	LAMAS	ST	1228B6
444	170632	4	C10S	RGT OF LFT LL	54	2606	LANGE	AV	1228B6
445	170026	4	B10S	MANHOLE	39	7816	LOOKOUT	DR	1227G6
446	300292	4	B10S	MANHOLE	60	7820	LOOKOUT	DR	1227G6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
447	170084	4	B10S	MANHOLE	70	7868	LOOKOUT	DR	1227H6
448	171792	4	A10S	MANHOLE	6	7508	MAR	AV	1227F7
449	171793	4	A10S	MANHOLE	31	7520	MAR	AV	1227F7
450	6269350	4	A10S	LFT OF RGT LL	4	7530	MAR	AV	1227F7
451	301302	4	A10S	MANHOLE	7	7538	MAR	AV	1227F7
452	173210	4	A11S	RGT OF LFT LL	117	551	MARINE	ST	1227E7
453	173051	4	A11S	RGT OF LFT LL	160	644	MARINE	ST	1227E7
454	173202	4	A11S	RGT OF LFT LL	96	561	MARINE	ST	1227E7
455	302279	4	A11S	RGT OF LFT LL	45	520	MARINE	ST	1227E7
456	376221	4	A11S	LFT OF RGT LL	20	604	MARINE	ST	1227E7
457	302363	4	A11S	LFT OF RGT LL	15	529	MARINE	ST	1227E7
458	173126	4	A11S	RGT OF LFT LL	55	625	MARINE	ST	1227E7
459	302383	4	A11S	LFT OF RGT LL	10	525	MARINE	ST	1247E1
460	173200	4	A11S	RGT OF LFT LL	49	561	MARINE	ST	1227E7
461	302348	4	A11S	RGT OF LFT LL	181	543	MARINE	ST	1227E7
462	173160	4	A11S	RGT OF LFT LL	35	520	MARINE	ST	1227E7
463	172896	4	B11S	LFT OF RGT LL	28	1630	MIMULUS	WY	1227G7
464	173078	4	B11S	MANHOLE	23	1602	MIMULUS	WY	1227G7
465	172996	4	B11S	MANHOLE	87	1616	MIMULUS	WY	1227G7
466	173031	4	B11S	MANHOLE	45	1602	MIMULUS	WY	1227G7
467	302143	4	B11S	MANHOLE	4	1631	MIMULUS	WY	1227G7
468	302311	4	B11S	MANHOLE	39	1601	MIMULUS	WY	1227G7
469	301316	4	A10S	MANHOLE	57	7525	MIRAMAR	AV	1227F7
470	300672	4	C10S	RGT OF LFT LL	27	5732	MOTT	ST	1228B6
471	170746	4	C10S	LFT OF RGT LL	63	5737	MOTT	ST	1228B6
472	300585	4	C10S	RGT OF LFT LL	24	5818	MOTT	ST	1228B6
473	170866	4	C10S	LFT OF RGT LL	36	5720	MOTT	ST	1228B6
474	300518	4	C10S	RGT OF LFT LL	24	5842	MOTT	ST	1228B6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
475	170520	4	C10S	RGT OF LFT LL	30	5854	MOTT	ST	1228B6
476	300738	4	C10S	LFT OF RGT LL	19	5708	MOTT	ST	1228B6
477	300553	4	C10S	RGT OF LFT LL	26	5830	MOTT	ST	1228B6
478	300605	4	C10S	LFT OF RGT LL	39	5806	MOTT	ST	1228B6
479	170737	4	C10S	unset	0	5744	MOTT	AV	1228B6
480	176213	4	B11S	MANHOLE	50	6656	MUIRLANDS	DR	1247G1
481	174940	4	A11S	MANHOLE	52	955	MUIRLANDS	DR	1247F1
482	176136	4	B11S	MANHOLE	106	6649	MUIRLANDS	DR	1247G1
483	5463123	4	B11S	LFT OF RGT LL	30	6743	MUIRLANDS	DR	1247G1
484	300657	4	C10S	LFT OF RGT LL	24	2716	NANSEN	AV	1228B6
485	300760	4	C10S	RGT OF LFT LL	25	2615	NANSEN	AV	1228B6
486	170817	4	C10S	LFT OF RGT LL	40	2753	NANSEN	AV	1228B6
487	170832	4	C10S	RGT OF LFT LL	27	2723	NANSEN	AV	1228B6
488	300680	4	C10S	LFT OF RGT LL	47	2737	NANSEN	AV	1228B6
489	300682	4	C10S	LFT OF RGT LL	40	2765	NANSEN	AV	1228B6
490	170870	4	C10S	LFT OF RGT LL	38	2624	NANSEN	AV	1228B6
491	170893	4	C10S	unset	0	2627	NANSEN	AV	1228B6
492	170854	4	C10S	RGT OF LFT LL	26	2707	NANSEN	AV	1228B6
493	170949	4	C10S	LFT OF RGT LL	23	2603	NANSEN	AV	1228B6
494	300742	4	C10S	RGT OF LFT LL	25	2639	NANSEN	AV	1228B6
495	170758	4	C10S	LFT OF RGT LL	37	2740	NANSEN	AV	1228B6
496	170802	4	C10S	RGT OF LFT LL	36	2704	NANSEN	AV	1228B6
497	170842	4	C10S	RGT OF LFT LL	28	2648	NANSEN	AV	1228B6
498	170856	4	C10S	RGT OF LFT LL	24	2636	NANSEN	AV	1228B6
499	170872	4	C10S	LFT OF RGT LL	38	2663	NANSEN	AV	1228B6
500	170896	4	C10S	RGT OF LFT LL	28	2651	NANSEN	AV	1228B6
501	300637	4	C10S	RGT OF LFT LL	34	2752	NANSEN	AV	1228B6
502	300647	4	C10S	RGT OF LFT LL	37	2728	NANSEN	AV	1228B6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
503	170763	4	C10S	RGT OF LFT LL	38	2764	NANSEN	AV	1228B6
504	300681	4	C10S	LFT OF RGT LL	25	2660	NANSEN	AV	1228B6
505	5515951	4	B11S	LFT OF RGT LL	47	1521	NAUTILUS	ST	1247G1
506	5463124	4	B11S	LFT OF RGT LL	47	6749	NAUTILUS	ST	1247G1
507	279888	4	A11S	unset	0	7076	NEPTUNE	PL	1247E1
508	374984	4	A11S	MANHOLE	30	7080	NEPTUNE	PL	1247E1
509	374976	4	A11S	unset	0	7106	OLIVETAS	AV	1247E1
510	172390	4	A10S	unset	0	941	PEARL	ST	1227F7
511	177361	4	A11S	MANHOLE	2	363	PLAYA DEL SUR		1247E2
512	5214842	4	A10S	MANHOLE	70	7769	PROSPECT	PL	1227F6
513	300954	4	C10S	LFT OF RGT LL	54	2560	QUIDDE	AV	1228B6
514	171222	4	C10S	RGT OF LFT LL	36	2513	QUIDDE	AV	1228A6
515	300914	4	C10S	RGT OF LFT LL	47	2516	QUIDDE	AV	1228B6
516	171282	4	C10S	LFT OF RGT LL	51	2541	QUIDDE	AV	1228B6
517	171347	4	C10S	LFT OF RGT LL	43	5618	QUIDDE	CT	1228B6
518	171304	4	C10S	RGT OF LFT LL	53	2572	QUIDDE	AV	1228B6
519	300924	4	C10S	LFT OF RGT LL	46	2526	QUIDDE	AV	1228B6
520	301032	4	C10S	RGT OF LFT LL	33	5605	QUIDDE	CT	1228B6
521	171239	4	C10S	LFT OF RGT LL	45	2548	QUIDDE	AV	1228B6
522	300982	4	C10S	RGT OF LFT LL	55	2559	QUIDDE	AV	1228B6
523	171238	4	C10S	LFT OF RGT LL	45	2523	QUIDDE	AV	1228B6
524	171310	4	C10S	LFT OF RGT LL	35	2582	QUIDDE	AV	1228B6
525	171358	4	C10S	RGT OF LFT LL	45	2571	QUIDDE	AV	1228B6
526	171257	4	C10S	RGT OF LFT LL	39	2529	QUIDDE	AV	1228B6
527	171390	4	C10S	RGT OF LFT LL	33	5606	QUIDDE	CT	1228B6
528	300897	4	C10S	LFT OF RGT LL	55	2504	QUIDDE	AV	1228A6
529	300938	4	C10S	RGT OF LFT LL	46	2538	QUIDDE	AV	1228B6
530	301006	4	C10S	LFT OF RGT LL	45	5615	QUIDDE	CT	1228B6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
531	172066	4	B10S	MANHOLE	12	7383	REMLEY	PL	1227G7
532	300310	4	C10S	MANHOLE	7	7855	REVELLE	DR	1227J6
533	170087	4	C10S	MANHOLE	30	7866	REVELLE	DR	1227J6
534	300177	4	C10S	MANHOLE	63	7887	REVELLE	DR	1228A6
535	300228	4	C10S	LFT OF RGT LL	48	7878	REVELLE	DR	1227J6
536	301822	4	B10S	unset	0	7260	ROMERO	DR	1227G7
537	171835	4	C10S	RGT OF LFT LL	3	2735	SAN CLEMENTE	TR	1228B7
538	171891	4	C10S	LFT OF RGT LL	30	2604	SAN CLEMENTE	TR	1228B7
539	172042	4	C10S	RGT OF LFT LL	35	2556	SAN CLEMENTE	TR	1228B7
540	172193	4	C10S	LFT OF RGT LL	24	2535	SAN CLEMENTE	TR	1228B7
541	301391	4	C10S	LFT OF RGT LL	30	2596	SAN CLEMENTE	TR	1228B7
542	171855	4	C10S	LFT OF RGT LL	25	2675	SAN CLEMENTE	TR	1228B7
543	171941	4	C10S	LFT OF RGT LL	36	2586	SAN CLEMENTE	TR	1228B7
544	172139	4	C10S	LFT OF RGT LL	27	2520	SAN CLEMENTE	TR	1228B7
545	301317	4	C10S	RGT OF LFT LL	32	2763	SAN CLEMENTE	TR	1228B7
546	171872	4	C10S	LFT OF RGT LL	30	2610	SAN CLEMENTE	TR	1228B7
547	301327	4	C10S	LFT OF RGT LL	29	2721	SAN CLEMENTE	TR	1228B7
548	301336	4	C10S	RGT OF LFT LL	26	2665	SAN CLEMENTE	TR	1228B7
549	171987	4	C10S	RGT OF LFT LL	36	2595	SAN CLEMENTE	TR	1228B7
550	301346	4	C10S	RGT OF LFT LL	34	2625	SAN CLEMENTE	TR	1228B7
551	301461	4	C10S	LFT OF RGT LL	38	2566	SAN CLEMENTE	TR	1228B7
552	171778	4	C10S	unset	0	2787	SAN CLEMENTE	TR	1228B7
553	171796	4	C10S	unset	0	2779	SAN CLEMENTE	TR	1228B7
554	171849	4	C10S	LFT OF RGT LL	26	2695	SAN CLEMENTE	TR	1228B7
555	172130	4	C10S	LFT OF RGT LL	37	2528	SAN CLEMENTE	TR	1228B7
556	172162	4	C10S	LFT OF RGT LL	63	2512	SAN CLEMENTE	TR	1228B7
557	301322	4	C10S	LFT OF RGT LL	17	2749	SAN CLEMENTE	TR	1228B7
558	301331	4	C10S	RGT OF LFT LL	29	2685	SAN CLEMENTE	TR	1228B7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
559	301362	4	C10S	LFT OF RGT LL	26	2615	SAN CLEMENTE	TR	1228B7
560	301372	4	C10S	RGT OF LFT LL	77	2605	SAN CLEMENTE	TR	1228B7
561	171844	4	C10S	LFT OF RGT LL	25	2707	SAN CLEMENTE	TR	1228B7
562	172126	4	C10S	LFT OF RGT LL	27	2565	SAN CLEMENTE	TR	1228B7
563	301338	4	C10S	RGT OF LFT LL	41	2645	SAN CLEMENTE	TR	1228B7
564	301505	4	C10S	RGT OF LFT LL	30	2536	SAN CLEMENTE	TR	1228B7
565	171859	4	C10S	RGT OF LFT LL	23	2620	SAN CLEMENTE	TR	1228B7
566	172096	4	C10S	RGT OF LFT LL	21	2575	SAN CLEMENTE	TR	1228B7
567	301342	4	C10S	RGT OF LFT LL	35	2635	SAN CLEMENTE	TR	1228B7
568	301430	4	C10S	LFT OF RGT LL	31	2576	SAN CLEMENTE	TR	1228B7
569	171812	4	C10S	LFT OF RGT LL	17	2777	SAN CLEMENTE	TR	1228B7
570	172044	4	C10S	LFT OF RGT LL	46	2585	SAN CLEMENTE	TR	1228B7
571	172147	4	C10S	LFT OF RGT LL	27	2555	SAN CLEMENTE	TR	1228B7
572	172174	4	C10S	LFT OF RGT LL	24	2545	SAN CLEMENTE	TR	1228B7
573	301337	4	C10S	LFT OF RGT LL	24	2655	SAN CLEMENTE	TR	1228B7
574	301492	4	C10S	RGT OF LFT LL	38	2546	SAN CLEMENTE	TR	1228B7
575	301584	4	C10S	RGT OF LFT LL	33	2525	SAN CLEMENTE	TR	1228B7
576	172017	4	C10S	RGT OF LFT LL	36	2665	SCHENLEY	TR	1228B7
577	172003	4	C10S	LOT LINE	17	2613	SCHENLEY	TR	1228B7
578	172005	4	C10S	LFT OF RGT LL	26	2621	SCHENLEY	TR	1228B7
579	172016	4	C10S	LFT OF RGT LL	25	2655	SCHENLEY	TR	1228B7
580	301439	4	C10S	RGT OF LFT LL	35	2757	SCHENLEY	TR	1228B7
581	301456	4	C10S	RGT OF LFT LL	35	2731	SCHENLEY	TR	1228B7
582	171967	4	C10S	LFT OF RGT LL	10	2781	SCHENLEY	TR	1228B7
583	171974	4	C10S	RGT OF LFT LL	30	2769	SCHENLEY	TR	1228B7
584	301452	4	C10S	LOT LINE	35	2743	SCHENLEY	TR	1228B7
585	172008	4	C10S	LFT OF RGT LL	26	2637	SCHENLEY	TR	1228B7
586	301448	4	C10S	LOT LINE	35	2755	SCHENLEY	TR	1228B7

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
587	172006	4	C10S	RGT OF LFT LL	35	2707	SCHENLEY	TR	1228B7
588	172007	4	C10S	LFT OF RGT LL	25	2629	SCHENLEY	TR	1228B7
589	172011	4	C10S	RGT OF LFT LL	36	2695	SCHENLEY	TR	1228B7
590	301459	4	C10S	RGT OF LFT LL	35	2716	SCHENLEY	TR	1228B7
591	172013	4	C10S	LFT OF RGT LL	25	2645	SCHENLEY	TR	1228B7
592	172014	4	C10S	RGT OF LFT LL	36	2685	SCHENLEY	TR	1228B7
593	301462	4	C10S	RGT OF LFT LL	25	2675	SCHENLEY	TR	1228B7
594	171596	6	C10S	RGT OF LFT LL	238	2640	SODERBLOM	AV	1228B6
595	171670	4	C10S	LFT OF RGT LL	55	2715	SODERBLOM	AV	1228B7
596	301100	4	C10S	RGT OF LFT LL	40	2435	SODERBLOM	AV	1228A6
597	301219	4	C10S	LFT OF RGT LL	45	2655	SODERBLOM	AV	1228B7
598	171542	4	C10S	LFT OF RGT LL	85	2640	SODERBLOM	AV	1228B6
599	301110	4	C10S	RGT OF LFT LL	45	2511	SODERBLOM	AV	1228A6
600	171491	4	C10S	LFT OF RGT LL	40	2548	SODERBLOM	AV	1228B6
601	171629	4	C10S	RGT OF LFT LL	43	2765	SODERBLOM	AV	1228B7
602	301018	4	C10S	LFT OF RGT LL	45	5519	SODERBLOM	CT	1228B6
603	301098	4	C10S	LFT OF RGT LL	45	2558	SODERBLOM	AV	1228B6
604	301128	4	C10S	RGT OF LFT LL	40	2551	SODERBLOM	AV	1228B7
605	301208	4	C10S	LFT OF RGT LL	45	2745	SODERBLOM	AV	1228B7
606	301221	4	C10S	LFT OF RGT LL	45	2705	SODERBLOM	AV	1228B7
607	171494	4	C10S	LFT OF RGT LL	52	2598	SODERBLOM	AV	1228B6
608	171613	6	C10S	RGT OF LFT LL	236	2640	SODERBLOM	AV	1228B6
609	171635	4	C10S	RGT OF LFT LL	39	2623	SODERBLOM	AV	1228B7
610	171645	4	C10S	LFT OF RGT LL	45	2633	SODERBLOM	AV	1228B7
611	171661	4	C10S	LFT OF RGT LL	45	2725	SODERBLOM	AV	1228B7
612	301094	4	C10S	RGT OF LFT LL	45	2415	SODERBLOM	AV	1228A6
613	301213	4	C10S	LFT OF RGT LL	55	2643	SODERBLOM	AV	1228B7
614	171344	4	C10S	RGT OF LFT LL	30	5543	SODERBLOM	CT	1228B6

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
615	171535	4	C10S	RGT OF LFT LL	45	2531	SODERBLOM	AV	1228B6
616	171568	4	C10S	LFT OF RGT LL	64	2597	SODERBLOM	AV	1228B7
617	171615	4	C10S	LFT OF RGT LL	37	2603	SODERBLOM	AV	1228B7
618	171616	4	C10S	LFT OF RGT LL	50	2775	SODERBLOM	AV	1228B7
619	171620	4	C10S	RGT OF LFT LL	34	2613	SODERBLOM	AV	1228B7
620	301024	4	C10S	unset	0	2410	SODERBLOM	AV	1228A6
621	301051	4	C10S	RGT OF LFT LL	40	2528	SODERBLOM	AV	1228B6
622	301138	4	C10S	RGT OF LFT LL	40	2569	SODERBLOM	AV	1228B7
623	171345	4	C10S	LFT OF RGT LL	30	5532	SODERBLOM	CT	1228A6
624	171363	4	C10S	RGT OF LFT LL	35	5531	SODERBLOM	CT	1228B6
625	171385	4	C10S	RGT OF LFT LL	40	5520	SODERBLOM	CT	1228A6
626	171665	4	C10S	LFT OF RGT LL	50	2663	SODERBLOM	AV	1228B7
627	301047	4	C10S	LFT OF RGT LL	45	2430	SODERBLOM	AV	1228A6
628	171510	4	C10S	RGT OF LFT LL	25	2578	SODERBLOM	AV	1228B6
629	171656	4	C10S	LFT OF RGT LL	50	2735	SODERBLOM	AV	1228B7
630	301198	4	C10S	RGT OF LFT LL	40	2755	SODERBLOM	AV	1228B7
631	300716	4	B10S	LOT LINE	22	1760	SOLEDAD	AV	1227G6
632	171543	4	C10S	LFT OF RGT LL	52	5513	STRESEMANN	ST	1228B6
633	171577	4	C10S	RGT OF LFT LL	53	5505	STRESEMANN	ST	1228B6
634	5058018	4	A10S	MANHOLE	65	1525	TORREY PINES	RD	1227F6
635	298215	6	C08S	MANHOLE	149	3131	VIA ALICANTE		1228A4
636	167311	8	C08S	MANHOLE	79	3110	VIA ALICANTE		1228A4
637	174451	4	B11S	LFT OF RGT LL	32	2192	VIA DON BENITO		1247H1
638	174549	4	B11S	LFT OF RGT LL	62	2211	VIA DON BENITO		1247H1
639	174598	4	B11S	RGT OF LFT LL	46	2165	VIA DON BENITO		1247H1
640	174478	4	B11S	MANHOLE	32	2156	VIA DON BENITO		1247H1
641	174496	4	B11S	LFT OF RGT LL	41	2124	VIA DON BENITO		1247H1
642	174526	4	B11S	LFT OF RGT LL	38	2058	VIA DON BENITO		1247H1

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
643	174663	4	B11S	RGT OF LFT LL	40	2111	VIA DON BENITO		1247H1
644	303290	4	B11S	RGT OF LFT LL	50	2143	VIA DON BENITO		1247H1
645	174572	4	B11S	RGT OF LFT LL	49	2195	VIA DON BENITO		1247H1
646	170548	4	A10S	LFT OF RGT LL	13	1528	VIRGINIA	WY	1227G6
647	170566	4	A10S	LFT OF RGT LL	12	1524	VIRGINIA	WY	1227G6
648	170541	4	A10S	RGT OF LFT LL	13	1532	VIRGINIA	WY	1227G6
649	170585	4	A10S	LFT OF RGT LL	13	1520	VIRGINIA	WY	1227F6
650	175703	4	A11S	LFT OF RGT LL	55	7024	VISTA DEL MAR	AV	1247E1
651	175793	4	A11S	unset	0	7015	VISTA DEL MAR	AV	1247E1
652	175960	4	A11S	unset	0	7010	VISTA DEL MAR	AV	1247E1
653	303544	4	A11S	unset	0	7135	VISTA DEL MAR	AV	1247E1
654	175804	4	A11S	LFT OF RGT LL	65	7005	VISTA DEL MAR	AV	1247E1
655	175032	4	A11S	unset	0	7125	VISTA DEL MAR	AV	1247E1
656	304055	4	A11S	unset	0	7010	VISTA DEL MAR	AV	1247E1
657	303655	4	A11S	LFT OF RGT LL	15	7116	VISTA DEL MAR	AV	1247E1
658	303948	4	A11S	RGT OF LFT LL	55	7025	VISTA DEL MAR	AV	1247E1
659	175104	4	A11S	LFT OF RGT LL	5	7126	VISTA DEL MAR	AV	1247E1
660	175122	4	A11S	RGT OF LFT LL	60	7115	VISTA DEL MAR	AV	1247E1
661	174989	4	A11S	RGT OF LFT LL	15	1040	WEST MUIRLANDS	DR	1247F1
662	175419	4	A11S	MANHOLE	20	1381	WEST MUIRLANDS	DR	1247G1
663	175339	4	A11S	MANHOLE	21	1360	WEST MUIRLANDS	DR	1247G1
664	303810	4	A11S	MANHOLE	103	1353	WEST MUIRLANDS	DR	1247G1
665	174882	4	A11S	RGT OF LFT LL	15	970	WEST MUIRLANDS	DR	1247F1
666	175431	4	A11S	MANHOLE	25	1396	WEST MUIRLANDS	DR	1247G1
667	303273	4	A11S	RGT OF LFT LL	15	940	WEST MUIRLANDS	DR	1247F1
668	303501	4	A11S	RGT OF LFT LL	15	1022	WEST MUIRLANDS	DR	1247F1
669	303784	4	A11S	MANHOLE	97	1319	WEST MUIRLANDS	DR	1247G1
670	175183	4	A11S	MANHOLE	60	1320	WEST MUIRLANDS	DR	1247G1

	Lateral FSN	Lateral Size (ft)	Field Book	Offset Ref.	Offset (ft)	Address			Thomas Bro
671	175337	4	A11S	MANHOLE	45	1370	WEST MUIRLANDS	DR	1247G1
672	175340	4	A11S	MANHOLE	75	1384	WEST MUIRLANDS	DR	1247G1
673	175343	4	A11S	MANHOLE	79	1350	WEST MUIRLANDS	DR	1247G1
674	174923	4	A11S	RGT OF LFT LL	15	1010	WEST MUIRLANDS	DR	1247F1
675	175345	4	A11S	MANHOLE	21	1340	WEST MUIRLANDS	DR	1247G1
676	303811	4	A11S	MANHOLE	99	1343	WEST MUIRLANDS	DR	1247G1
677	303843	4	A11S	MANHOLE	126	1389	WEST MUIRLANDS	DR	1247G1
678	378476	4	A11S	MANHOLE	12	1365	WEST MUIRLANDS	DR	1247G1
679	174764	4	A11S	RGT OF LFT LL	15	950	WEST MUIRLANDS	DR	1247F1
680	174848	4	A11S	RGT OF LFT LL	15	960	WEST MUIRLANDS	DR	1247F1
681	303711	4	A11S	MANHOLE	48	1303	WEST MUIRLANDS	DR	1247G1
682	303800	4	A11S	MANHOLE	69	1329	WEST MUIRLANDS	DR	1247G1
683	175814	4	A11S	RGT OF LFT LL	10	350	WESTBOURNE	ST	1247E1
684	175826	4	A11S	unset	0	346	WESTBOURNE	ST	1247E1
685	175769	4	A11S	LFT OF RGT LL	40	366	WESTBOURNE	ST	1247E1
686	175783	4	A11S	RGT OF LFT LL	10	360	WESTBOURNE	ST	1247E1
687	175850	4	A11S	RGT OF LFT LL	10	334	WESTBOURNE	ST	1247E1
688	376270	4	A11S	LOT LINE	10	340	WESTBOURNE	ST	1247E1
689	175867	4	A11S	RGT OF LFT LL	10	324	WESTBOURNE	ST	1247E1
690	169916	4	C10S	MANHOLE	34	2946	WOODFORD	DR	1228A6
691	169952	4	C10S	LFT OF RGT LL	44	2974	WOODFORD	DR	1228A6
692	300125	4	C10S	LFT OF RGT LL	72	2940	WOODFORD	DR	1228A6
693	170027	4	C10S	LFT OF RGT LL	72	2975	WOODFORD	DR	1228A6
694	169872	4	C10S	unset	0	2908	WOODFORD	DR	1228A6
695	169884	4	C10S	RGT OF LFT LL	52	2922	WOODFORD	DR	1228A6
696	300174	4	C10S	RGT OF LFT LL	44	2915	WOODFORD	DR	1227J6

APPENDIX H
TELEVISION INSPECTION FORMATS & CODES

CCTV VIDEO FORMAT STANDARD

9/29/2011

See Whitebook 500-1.1.5 and 2009 City Supplement 500-1.1.5.

This data is based upon our current contract.

The video shall be captured and compressed so as to reduce file size as much as possible while still providing a smooth, clear video. The video shall be at 30 frames per second. The compression shall be in Windows Media Video Format (.wmv).

The compression shall not significantly degrade the still frame quality of the video or audio signal from the original source video, as judged in a side by side viewing, under normal viewing conditions.

Service Provider shall provide an initial submittal at the start of televising work demonstrating the typical video and audio quality to be provided for approval by the City. This submittal shall note any proposed changes to the specification regarding video format, data processing, compression or other condition for review and approval by the City.

512 kbps video.

Video: 30 fps, 320 X 240, WMV V9 Compression.

Audio: 64 kbps, 44,100 Hz, 16 bit, Stereo.

Digital Video Filename Specification

Pipeline Inspection

Videos are stored and named by manhole-to-manhole pipe segments. The file name must be stored in a field in the database to be provided.

The file naming convention for video files is as follows:

Start MH			End MH				Date	Extension		
Field Book Page	D a s h	Map ID	D a s h	Field Book Page	D a s h	Map ID	D a s h	hhddmmyy	D o t	Extension
A09S	-	1	-	A10S	-	10	-	24081205	.	WMV

Note that the Map ID and the Sequence Number will not have leading 0s. However, the date will always be specified as an eight-digit sequence with a two-digit hour based on 24-hr clock, two-digit day, a two-digit month, and a two-digit year (including leading 0s as necessary). The hour is included primarily to differentiate multiple inspections performed on the same pipe on the same day (a rare event).

Manhole Inspection

Videos are stored and named by manhole. The file name must be stored in a field in the database to be provided.

The file naming convention for video files is as follows:

Field Book Page	D a s h	Map ID	D a s h	Date hhddmmyy	D o t	Extension
A10S	-	10	-	24081205	.	WMV

Note that the Map ID and the Sequence Number will not have leading 0s. However, the date will always be specified as an eight-digit sequence with a two-digit hour based on 24-hr clock, two-digit day, a two-digit month, and a two-digit year (including leading 0s as necessary). The hour is included primarily to differentiate multiple inspections performed on the same manhole on the same day (a rare event).

All Access Objects

Search...

Tables

- FacilityExport
- INSPECTION
- ItbIRehabMaterialCD
- OBSERVATION
- ObsExport
- PIPE_SEGMENT
- STILL_IMAGE
- VENDOR_RECOMMENDATION

Queries

- step 1 inspection update
- step 2 pipe segment update
- step 3 observation update
- step 4 vendor_recommendation update
- step 5 Still_image_table

Macros

- Macro1

Action	Comment
SetWarnings	
OpenQuery	Step 1 - Inspection update.
OpenQuery	Step 2 - Pipe segment update.
OpenQuery	Step 3 - Observation update.
OpenQuery	Step 4- Vendor_recommendation update.
OpenQuery	Step 5 - Make Still image table.
Beep	

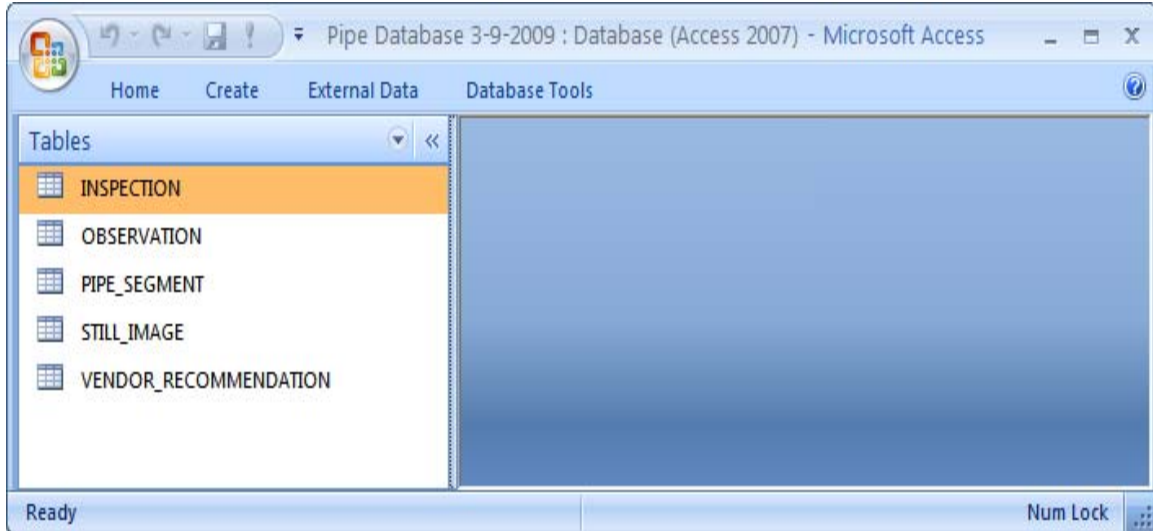
Action Arguments

Warnings On

Turns all system messages on or off. Prevents modal warnings from stopping the macro (although error messages and dialogs that require user input still appear). This has the same effect as pressing Enter in each message box (typically an OK or Yes). Press F1 for help on this action.

Pipe Database Structure

The Pipe database employs the use of 5 tables.



Properties

DateCreated:	5/29/2008 4:15:22 PM	DefaultView:	2
DisplayViewsOnSharePointSi	1	FilterOnLoad:	False
GUID:	{guid {D3A951C4-C5CE-4ACC-933B-41AF2D376CBC}}	HideNewField:	False
LastUpdated:	11/16/2011 8:29:03 AM	NameMap:	Long binary data
OrderByOn:	False	OrderByOnLoad:	True
Orientation:	Left-to-Right	RecordCount:	0
TotalsRow:	False	Updatable:	True

Columns

Name	Type	Size
INSPECTION_SEQ_NUM	Long Integer	4
FAC_SEQ_NUM	Double	8
INSPECTION_DT	Date/Time	8
CAMERA_OPERATOR	Text	20
PRECIPITATION_QTY	Text	20
VIDEO_DIRECTION_TXT	Text	8
STREET_NM	Text	30
SURFACE_TYP_TXT	Text	9
UPSTREAM_MANH_FLD_BK_PAGE_NUM	Text	4
UPSTREAM_MANH_MAPID	Long Integer	4
UPSTREAM_MANH_FLD_BK_GRID_NUM	Double	8
DOWNSTRM_MANH_FLD_BK_PAGE_NUM	Text	4
DOWNSTRM_MANH_FLD_BK_GRID_NUM	Long Integer	4
DOWNSTREAM_MANH_MAPID	Long Integer	4
START_FOOTAGE_QTY	Double	8
END_FOOTAGE_QTY	Single	4
QC_PERSON_NM	Text	10
QC_DT	Date/Time	8
VIDEO_FILE_NAME	Text	100

Properties

DateCreated:	5/29/2008 4:15:09 PM	DefaultView:	2
DisplayViewsOnSharePointSi	1	FilterOnLoad:	False
GUID:	{guid {DD4437B4-90AF-43E4-A136-4EF45143FD84}}	HideNewField:	False
LastUpdated:	9/29/2011 8:55:16 AM	NameMap:	Long binary data
OrderBy:	[OBSERVATION].[OBSERVATI ON_SEQ_NUM]	OrderByOn:	True
OrderByOnLoad:	True	Orientation:	Left-to-Right
RecordCount:	0	TotalsRow:	False
Updatable:	True		

Columns

<u>Name</u>	<u>Type</u>	<u>Size</u>
INSPECTION_SEQ_NUM	Long Integer	4
FAC_SEQ_NUM	Double	8
OBSERVATION_SEQ_NUM	Long Integer	4
OBSERVATION_CD	Text	10
FOOTAGE_QTY	Long Integer	4
OBSERVATION_COMMENT	Text	150

Properties

DateCreated:	6/18/2010 10:07:55 AM	DefaultView:	2
DisplayViewsOnSharePointSi	1	FilterOnLoad:	False
GUID:	{guid {2DD7767A-1885-44A9-8FD1-7F2B3CFA44CB}}	HideNewField:	False
LastUpdated:	9/29/2011 8:57:46 AM	NameMap:	Long binary data
OrderByOn:	False	OrderByOnLoad:	True
Orientation:	Left-to-Right	RecordCount:	0
TotalsRow:	False	Updatable:	True

Columns

Name	Type	Size
INSPECTION_SEQ_NUM	Double	8
Project_Name	Text	35
FAC_SEQ_NUM	Double	8
LGTH_QTY	Double	8
DEPTH	Double	8
JOINT_SPACING_NUM	Double	8
INSD_DIAM_SIZE_NUM	Double	8
START_FOOTAGE_QTY	Double	8
END_FOOTAGE_QTY	Single	4
PIPE_SEGMENT_COMMENT_TXT	Text	255
MATL_CD	Text	50
REHAB_MATL_CD	Text	5

Properties

DateCreated:	5/29/2008 4:15:16 PM	DefaultView:	2
DisplayViewsOnSharePointSi	1	FilterOnLoad:	False
GUID:	{guid {2142CAF4-0412-4E45-BF58-78D54BD0A022}}	HideNewField:	False
LastUpdated:	9/29/2011 8:55:55 AM	NameMap:	Long binary data
OrderBy:	[STILL_IMAGE].[OBSERVATION_SEQ_NUM], [STILL_IMAGE].[INSPECTION_SEQ_NUM]	OrderByOn:	True
OrderByOnLoad:	True	Orientation:	Left-to-Right
RecordCount:	0	TotalsRow:	False
Updatable:	True		

Columns

Name	Type	Size
INSPECTION_SEQ_NUM	Long Integer	4
FAC_SEQ_NUM	Double	8
OBSERVATION_SEQ_NUM	Long Integer	4
ONLINE_STORAGE_FILE_NM	Text	50
STILL_IMAGE_SEQ_NUM	Long Integer	4

Properties

DateCreated:	5/29/2008 4:15:19 PM	DefaultView:	2
DisplayViewsOnSharePointSi	1	FilterOnLoad:	False
GUID:	{guid {98E4257D-B19E-4B33-9C8E-532D93DCE40C}}	HideNewField:	False
LastUpdated:	9/29/2011 8:56:14 AM	NameMap:	Long binary data
OrderByOn:	False	OrderByOnLoad:	True
Orientation:	Left-to-Right	RecordCount:	0
TotalsRow:	False	Updatable:	True

Columns

Name	Type	Size
VENDOR_RECOMMENDATION_SEQ_NUM	Double	8
INSPECTION_SEQ_NUM	Double	8
FAC_SEQ_NUM	Double	8
RECOMMENDATION_CD	Text	8
RECOMMENDATION_CD2	Text	8
PRIORITY_CD	Long Integer	4

Material Descriptions used by S_Mains

The following material code goes into the PIPE_SEGMENT tables MATL_CD column.	
MATERIAL CODE	MATERIAL DESCRIPTIONS
ABS	ABS-ACRYLONITRILE BUTYLDENE STY
AC	ASBESTOS CEMENT
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CMLCS	CEMENT MORTAR LINED AND COATED STEEL PIPE
CP	CONCRETE PIPE
DI	DUCTILE IRON
FRC	FIBERGLASS REINFORCED CONCRETE
HDPE	HIGH DENSITY POLYETHYLENE
PCSC	PRESTRESSED CONCRETE STEEL CYLINDER
PERM	PERMASTRAN
PLCP	PLASTIC LINED CONCRETE PIPE
PLRCP	PLASTIC LINED REINFORCED CONCRETE PIPE
PVC	PVC-POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RCSC	REINFORCED CONCRETE STEEL CYLINDER
RCTL	REINFORCED CONCRETE TECHITE LINED
RPM	REINFORCED PLASTIC MORTAR
RSP	REINFORCED STEEL PIPE
SCRW	STEEL CYLINDER ROD WRAPPED
STL	STEEL
UNK	UNKNOWN
VC	VC-VITRIFIED CLAY
VCES	VITRIFIED CLAY EXTRA STRENGTH
WSCL	WELDED STEEL CEMENT LINED
The following rehab code goes into the PIPE_SEGMENT tables REHAB_MATL_CD column.	
REHAB CODE	REHAB DESCRIPTION
Lined	This only designates that the pipe was lined. For CCTV contracts only.
ULINE	U-LINER - For Rehab contracts.
RIBLC	RIBLOCK - For Rehab contracts.
INSIT	INSITUFORM - For Rehab contracts.
HOBAS	HOBAS - For Rehab contracts.
FRSTL	FIRST LINER - For Rehab contracts.
PP	POLYPHENOL - For Rehab contracts.
DANBY	DANBY - For Rehab contracts.
INLIN	INLINER - For Rehab contracts.
TECH	TECHITE - For Rehab contracts.
NOVA	NOVA - For Rehab contracts.
SEAR	SEAR - For Rehab contracts.
NATNL	NATIONAL cured in place liner - For Rehab contracts.

City of San Diego

VENDOR RECOMMENDATION TABLE CODES
FOR SEWER REHAB AND REPLACEMENT CIP
PROJECTS

Prioritization Code Key

- 0- Facility was not inspected
- ①- 0 to 250 Total Severity Points
- 2- 251 to 750 Total Severity Points
- 3- 751 or more Total Severity Points

Recommendation Code Key

- A- No Action
- B- Debris Cleaning
- C- Root Cleaning
- D- Spot Repairs
- E- Facility Replacement
- ②- Does Not Apply

WRC CODES FOR CITY OF SAN DIEGO

General Codes:

Code	Severity	Observation	Maintenance Points	Structural Points	Definitions	Standard Comments	Joints
GO	N	General Observation	0	0	General observation	If no opposite direction inspection done for an incomplete inspection, note the reason why. Note defects in service connections.	
ST	N	Start Inspection	0	0	Use at the start of all inspections	"Re-Inspection after cleaning", Note if depth of flow is 1/3 pipe or more note if pipe material from manhole is different from line	
FH	N	Finish Inspection	0	0	Use at the end of all inspections	Note the cause for ending the observation if you are not in the manhole, e.g. "camera blocked", "Overlap Point", "Clean Out", or "Dead End". If you are ending a reinspection use "End Re-Inspection".	
MH	N	Manhole	0	0	Upstream/Downstream manhole	Manhole number	
MB	N	Manhole, Buried	0	0	Any buried / paved over manhole shown on plans	MH # & Note if it is buried or paved over	
MU	N	Manhole, Undocumented	0	0	All manholes not on the plans	Note if it is paved over / buried	
MD	N	Manhole, Drop Connection	0	0	Drop Connection	Note if it is an inside, outside or direct drop Use with MB or MH	
CUB	N	Camera submerged begin	50	50	Whenever the camera lens is partially or fully submerged, obstructing the view		
CUE	N	Camera submerged end	50	50	Whenever the camera lens is returned to a normal state		
SA	N	Camera Blocked	75	100	impassable blockage, note apparent cause	Preceed Observation with a General observation Noting the apparent cause, e.g. by roots	
DND	N	Dead End	0	0	Dead End	Note if "Plug" & condition	
CO	N	Cleanout	0	0	Use when the camera reaches a cleanout		
MC	N	Material Change	0	0	Any change of pipe material	"Transition to (new pipe size)"	
DC	N	Diameter Change	0	50	Any change of pipe size	"Transition to (new pipe size & material)"	
LL	N	Bend in Pipe Left	0	50	Any bend in pipe to the left.		
LR	N	Bend in Pipe Right	0	50	Any bend in pipe to the right.		
LD	N	Bend in Pipe Down	0	50	Any bend in pipe down.		
LU	N	Bend in Pipe Up	0	50	Any bend in pipe up.		
RP	N	Reverse Pull	0	0	When a camera is reversed into a line and pulled back to the start manhole		
RS	N	Restricted Channel	0	0	Use when the camera is unable to access a channel		
V	N	Vermin	0	0	Any animal or rodent inside the pipe/manhole	Type of rodent	
BG	N	Bugs	0	0	Severe infestation of insects inside the pipe/manhole	Type of bug	

Pipe Codes:

Code	Severity	Observation	Maintenance Point	Structural Point	Definitions	Standard Comments	
R	S	Roots, Small	25	0	Light fine roots - root fingers following the wall of the pipe covering not more than 10% of the pipe wall; tap root less than 1/4"	Note if roots are coming from a crack, hole, or around a lateral	
	M	Roots, Medium	75	0	Medium fine roots covering 10 to 20% of the pipe wall or more than 1/4 of the pipe; tap root - 1/4" to 1/2"; camera passes without difficulty		
	L	Roots, Large	100	50	Heavy fine roots - a carpet of roots following the walls of the pipe or a mass greater than 1/2 pipe dia.; tap root greater than 1/2"		
I	S	Infiltration, slight	0	50	Seeping or Dripping		
	M	Infiltration, Medium	0	75	Constant stream		
	L	Infiltration, Large	0	150	Gushing water		
E	S	Slight Mineral Deposits		50	Indication of Infiltration		
	M	Medium Mineral Deposits	0	75	Under 10% of ID thick		
	L	Heavy Mineral Deposits	0	150	Greater than 10% of ID thick		
CC	S	Circular Crack, Small	0	100	Hairline less than 50% of circumference	Note if they are spiral cracks	Cracks at joints are within 4" of joint
	M	Circular Crack, Medium	0	150	Less than 1/8" open, or hairline greater than 50% of circumference		
	L	Circular Crack, Large	0	250	1/8" or greater, open		
CL	S	Crack -Longitudinal, Small	0	100	Hairline less than 1 section of pipe	If the crack extends past one section of pipe, note the end footage, e.g. to 105'. For continuing cracks, note every 3 pipe lengths with a "continuing" note	Cracks at joints are within 4" of joint
	M	Crack -Longitudinal, Medium	0	150	Less than 1/8" open, or hairline greater than 1 section of pipe		
	L	Crack -Longitudinal, Large	0	250	1/8" or greater, open		
CM	S	Cracks -Multiple, Small	0	100	Hairline cracks in multiple directions, less than 1 section of pipe		Cracks at joints are within 4" of joint
	M	Cracks -Multiple, Medium	0	150	Less than 1/8" open, or hairline greater than 1 section of pipe, in multiple directions		
	L	Cracks -Multiple, Large	0	300	Cracks in multiple directions, 1/8" or greater, open		
B	S	Broken Pipe, Small	0	250	Connecting cracks, no displacement	Note appearance of break	Within 4" of joint, crescent crack with no displacement, or displaced / gone less than 1 hr, within bell, no dirt showing
	M	Broken Pipe, Medium	0	300	Connecting cracks, some displacement (less than 1/4")		Within 4" of joint, crescent crack with displacement 1 - 3 hrs, or displaced / gone 1- 2hrs, within bell, no dirt showing
	L	Broken Pipe, Large	0	500	Connecting cracks, displacement greater than 1/4"		Within 4" of joint, crescent crack with displacement > 3 hrs, or displaced / gone > 2hrs, within bell, no dirt showing
X	N	Collapsed Pipe	0	700	Use if a section of the pipe wall has fallen in and the structural integrity of pipe has been compromised.	Note the approximate size and give a description.	
H	S	Hole in Pipe, Small	0	250	15" pipe or less: <1" dia. hole* > 15" pipe: <2" dia. hole*	* If a hole is below the waterline it moves up to the next severity Note the approximate size of the hole, e.g. 1.5". Note if there is an apparent void.	
	M	Hole in Pipe, Medium	0	400	15" pipe or less: 1" to 3" dia, pipe is sound, no void * > 15" pipe: 2" to 4" dia, pipe is sound, no void *		
	L	Hole in Pipe, Large	0	500	Greater than a moderate hole		

DS	N	Begin Pipe Sag	0	100	Flow depth increases more than 25% of ID		
DF	N	End Pipe Sag	0	0	End of sag	Note maximum depth of sag if not submerged	
SS	S	Erosion of CP, Slight	0	100	Rough walls	Use only with concrete pipe	
	M	Erosion of CP, Moderate	0	200	Exposed aggregate		
	L	Erosion of CP, Large	0	500	Exposed rebar		
DEG	S	Debris -Grease, slight	50	0	Slight indication 1/4"-1/2"	Note percentage of pipe (similar to roots), for continuing grease, enter observation every 25'	
	M	Debris -Grease, Moderate	75	0	1/2" to 2" thick		
	L	Debris -Grease, Large	150	0	Greater than 2" thick		
DE	S	Debris, Slight	50	0	10% of ID or less, rough debris	Note the type of debris, e.g. rocks, sludge, etc. For continuing debris, enter observation every 25'	
	M	Debris, Moderate	75	0	10-25% of ID, rough debris		
	L	Debris, Large	150	0	Greater than 25% of ID or impassable, rough debris		
DES	S	Debris -Silt, Slight	50	0	10% of ID or less, smooth silt	Note the type of debris, e.g. rocks, sludge, etc. For continuing debris, enter observation every 25'	
	M	Debris -Silt, Moderate	75	0	10-25% of ID, smooth silt		
	L	Debris -Silt, Large	150	0	Greater than 25% of ID or impassable, smooth silt		
D	S	Deformation, Slight	0	50	Less than 15% of ID		
	M	Deformation, Moderate	0	100	Between 15% and 30% of ID		
	L	Deformation, Large	0	150	>30%		
LC	S	Lining Defect, Small	0	50	Wrinkles, bubbles, dimples	Note the defect	
	M	Lining Defect, Moderate	0	100	Tear, 25% flow restriction		
	L	Lining Defect, Large	0	250	Greater than 25% flow restriction, missing liner		
SR	N	Spot Repair	0	50	Existing repair	Note repair condition	
CO	S	Corrosion of CI, Slight	0	100	Light teburculation	Use only with Metal Pipe	
	M	Corrosion of CI, Moderate	0	200	moderate teburculation		
	L	Corrosion of CI, Large	0	500	impassable, heavy teburculation		

Joint Codes

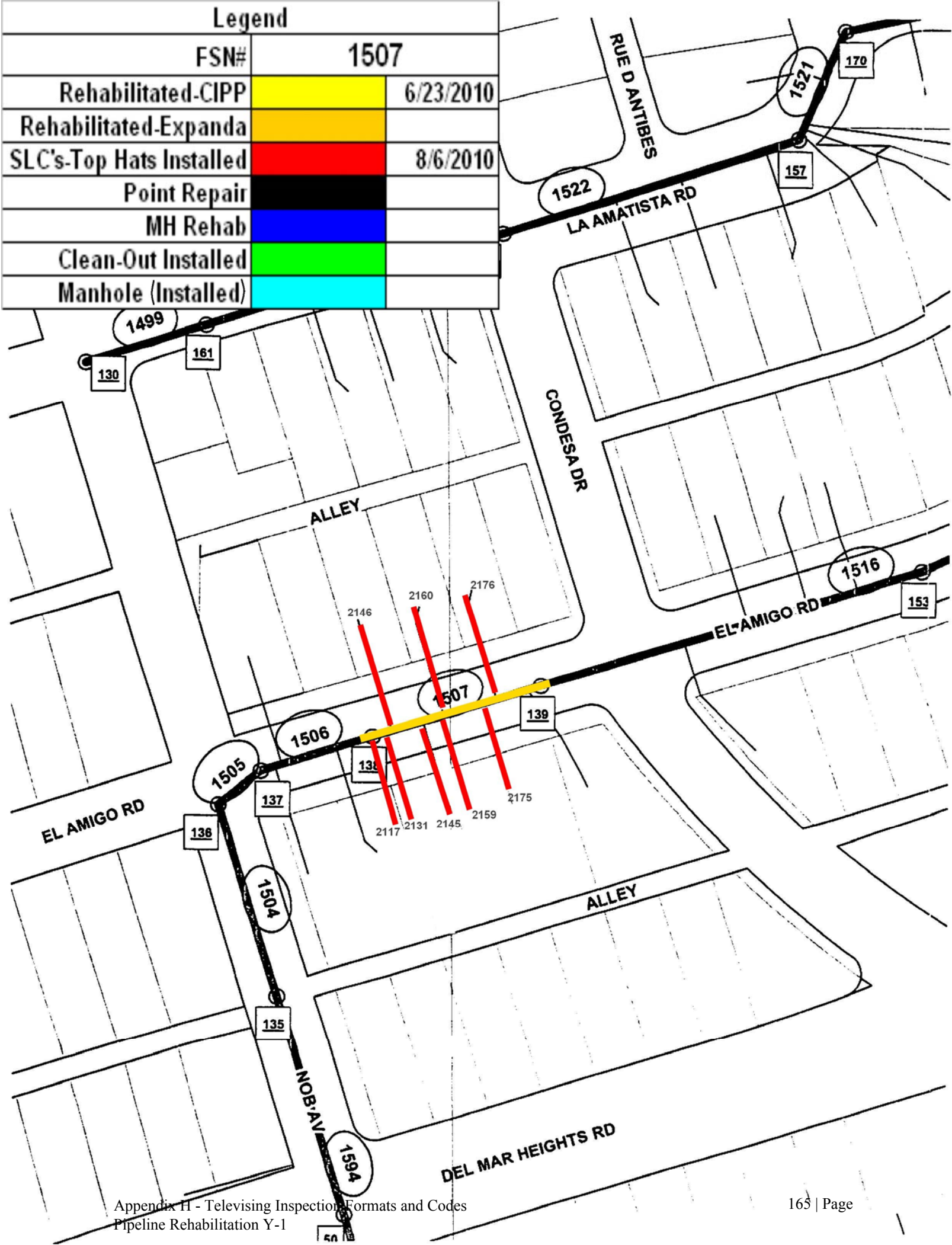
RJ	S	Roots at Joint, Small	25	0	Light fine roots - root fingers following the wall of the pipe covering not more than 10% of the pipe wall	Note if roots are coming from a crack, hole, or around a lateral	For roots at joints that are continuing: Put in an observation every 25' and note roots at 25% of joints, 50% of joints, 75% of joints or all joints. (understanding that 50% means 25% - 50% etc.). <u>Note every occurrence of Heavy Roots</u>
	M	Roots at Joint, Medium	75	0	Medium fine roots covering 10 to 20% of the pipe wall		
	L	Roots at Joint, Large	100	50	Heavy fine roots - a carpet of roots following the walls of the pipe		
JD	M	Joint Displaced, Medium	0	50	To thickness of pipe wall.	Do not note minor offsets	
	L	Joint Displaced, Large	0	150	Visable dirt/greater than pipe wall thickness		
IJ	S	Infiltration at Joint, Small	0	50	Seeping or Dripping		
	M	Infiltration at Joint, Medium	0	75	Constant stream		
	L	Infiltration at Joint, Large	0	150	Gushing water		
COJ	S	Corrosion at Joint, Slight	0	75			
	M	Corrosion at Joint, Moderate	0	150	Passable		
	L	Corrosion at Joint, Large	0	500	Impassable		
CCJ	S	Circular Crack at Joint, Small	0	100	Hairline less than 50% of circumference	Note if they are spiral cracks	Cracks at joints are within 4" of joint
	M	Circular Crack at Joint, Medium	0	150	Less than 1/8" open, or hairline greater than 50% of circumference		
	L	Circular Crack at Joint, Large	0	250	1/8" or greater, open		
CLJ	S	Crack -Longitudinal at Joint, Small	0	100	Hairline less than 1 section of pipe	If the crack extends past one section of pipe, note the end footage, e.g. to 105'. For continuing cracks, note every 3 pipe lengths with a "continuing" note	Cracks at joints are within 4" of joint
	M	Crack -Longitudinal at Joint, Medium	0	150	Less than 1/8" open, or hairline greater than 1 section of pipe		
	L	Crack -Longitudinal at Joint, Large	0	250	1/8" or greater, open		
CMJ	S	Multiple Cracks at Joint, Small	0	100	Hairline cracks in multiple directions, less than 1 section of pipe		Cracks at joints are within 4" of joint
	M	Multiple Cracks at Joint, Medium	0	150	Less than 1/8" open, or hairline greater than 1 section of pipe, in multiple directions		
	L	Multiple Cracks at Joint, Large	0	300	Cracks in multiple directions, 1/8" or greater, open		
GEJ	N	Gasket Exposed at Joint	0	50	Gasket exposed at joint		
SJ	S	Separated Joint, Slight	0	50	Bell Exposed		
	M	Separated Joint, Moderate	0	100	Dirt Exposed at top of pipe		
	L	Separated Joint, Large	0	200	Dirt Exposed at bottom of pipe		
BJ	S	Broken Joint, Small	0	250	Connecting cracks, no displacement	Note appearance of break	Within 4" of joint, crescent crack with no displacement, or displaced / gone less than 1 hr, within bell, no dirt showing
	M	Broken Joint, Medium	0	300	Connecting cracks, some displacement (less than 1/4")		Within 4" of joint, crescent crack with displacement 1 - 3 hrs, or displaced / gone 1- 2hrs, within bell, no dirt showing
	L	Broken Joint, Large	0	500	Connecting cracks, displacement greater than 1/4"		Within 4" of joint, crescent crack with displacement > 3 hrs, or displaced / gone > 2hrs, within bell, no dirt showing

Service Codes

Code	Severity	Observation	Maintenance Point	Structural Point	Definitions	Standard Comments	
CN	N	Service Connection	0	0	All factory lateral 'Y' or 'T' service connections		
CB	N	Break in Connection	0	50	All laterals connected into a hole broken or cut into the main	Note if it is "broken in" rather than cut	
CXC	S	Connection W/ Slight Defect	0	50	Light roots, hairline cracks	Use after CN or CB Note the defect	Use for lateral defects, not pipe defects
	M	Connection W/ Moderate Defect	0	100	Medium roots, medium cracks		
	L	Connection W/ Large Defect	0	150	Heavy roots, open cracks		
CNI	S	Minor Intruding Lateral	0	75	Less than 1"	Use after CN or CB note how far it intrudes	
	M	Moderate Intruding Lateral	0	150	1" to 2"		
	L	Severe Intruding Lateral	0	250	Greater than 2"		
CRA	S	Small Roots around lateral	20	50	Small Roots from around the outside of the lateral		
	M	Medium Roots around lateral	50	50	Medium Roots from around the outside of the lateral		
	L	Heavy Roots around lateral	75	100	Heavy Roots from around the outside of the lateral		
CR	S	Slight Roots in Lateral	20	0	Small Roots in / from lateral		
	M	Medium Roots in Lateral	50	0	Medium roots in / from lateral		
	L	Heavy Roots in Lateral	75	50	Heavy roots in / from lateral		
CG	S	Slight Grease From Connection	50	0	Slight indication 1/4"-1/2"	Note percentage of pipe (similar to roots), for continuing grease, enter observation every 25'	
	M	Medium Grease From Connection	75	0	1/2" to 2" thick		
	L	Heavy Grease From Connection	150	0	Greater than 2" thick		
CP	N	Plugged Connection	0	0	Lateral not in use	"Plugged" "Full of Rocks", etc.	

Legend

FSN#	1507	
Rehabilitated-CIPP		6/23/2010
Rehabilitated-Expanda		
SLC's-Top Hats Installed		8/6/2010
Point Repair		
MH Rehab		
Clean-Out Installed		
Manhole (Installed)		



APPENDIX I
STORM INLET PROTECTION PLAN

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PIPELINE REHABILITATION Y-1

SENIOR ENGINEER
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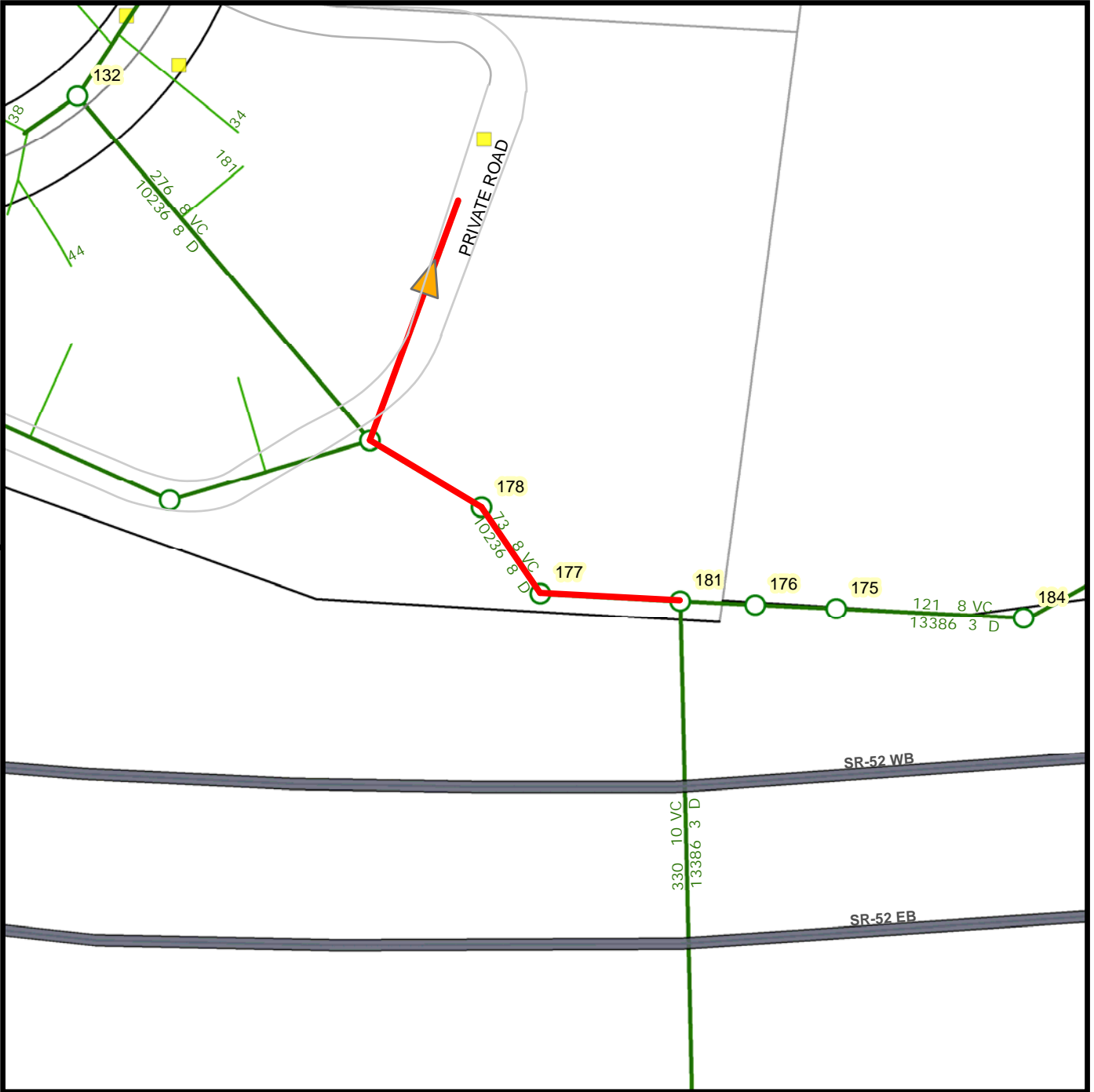
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 1

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Appendix I - Storm Drain Inlet Protection Plan



PIPELINE REHABILITATION Y-1

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STORM DRAIN PROTECTION PLAN SHEET 2

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Date: March 28, 2013

Appendix I - Storm Drain Inlet Protection Plan



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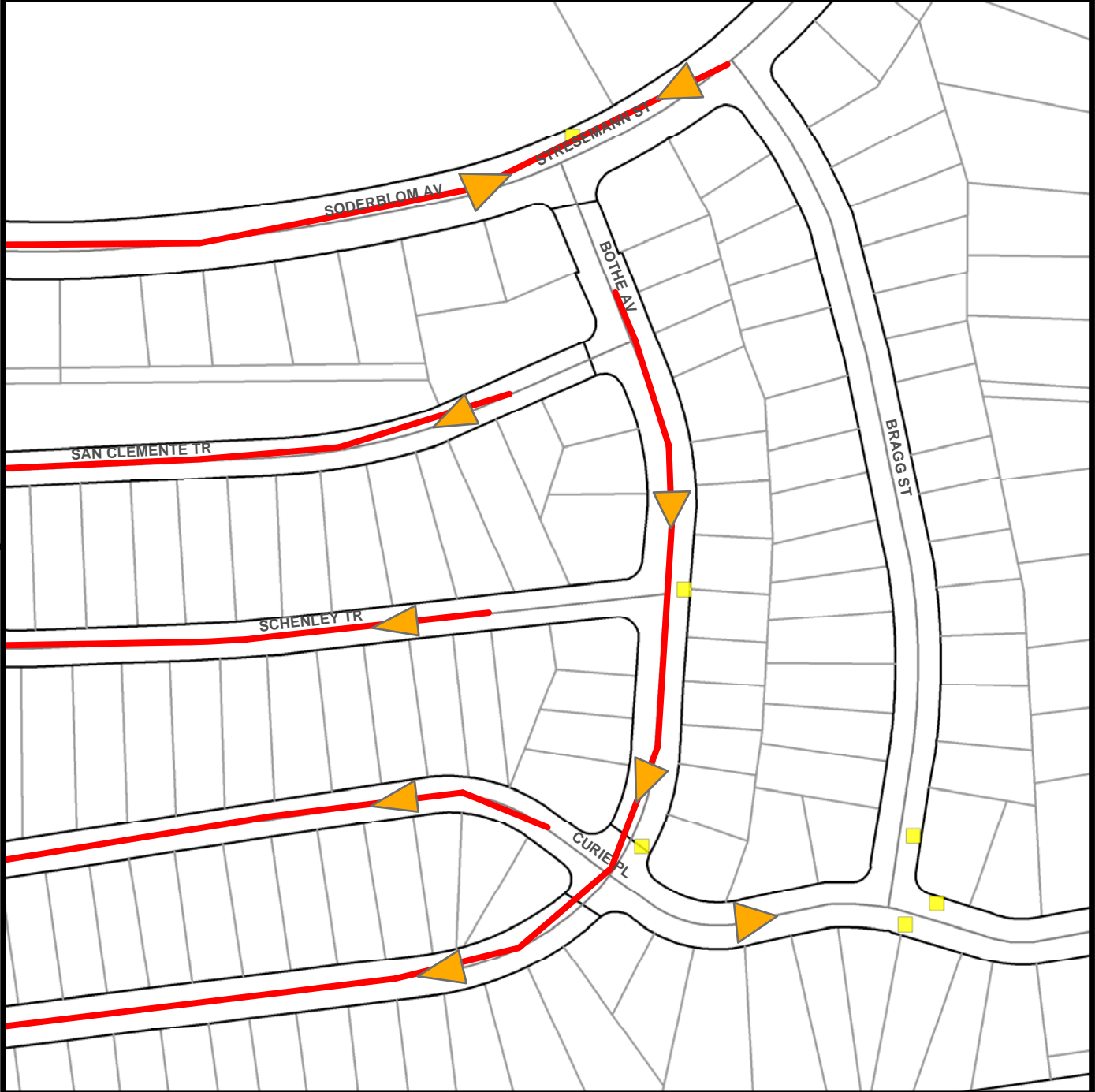
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STORM DRAIN PROTECTION PLAN SHEET 3

Legend

- Pipeline_Rehab
- Storm Drain Flow
- Storm Inlet



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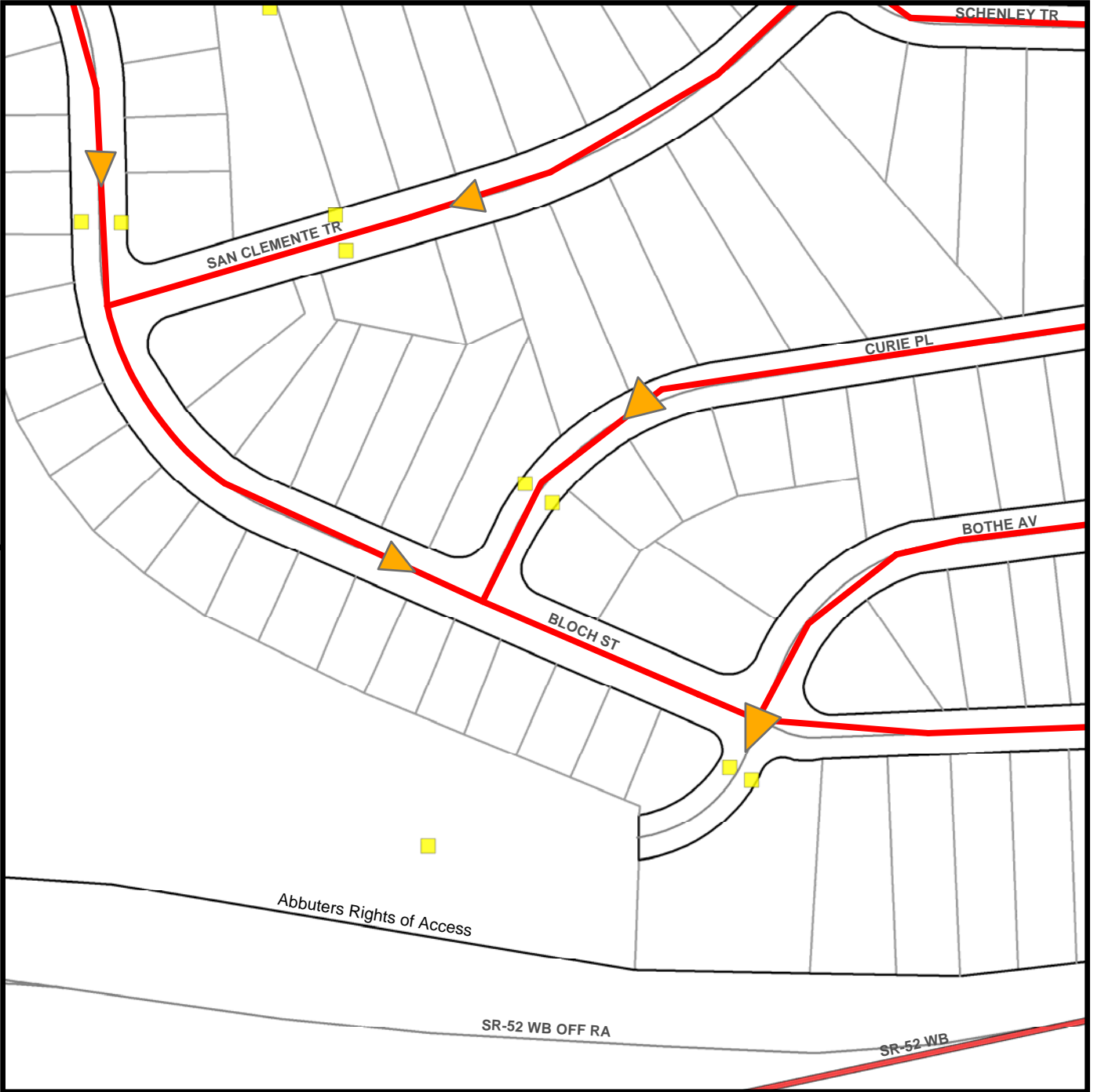
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STORM DRAIN PROTECTION PLAN SHEET 4

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Appendix I - Storm Drain Inlet Protection Plan



PIPELINE REHABILITATION Y-1

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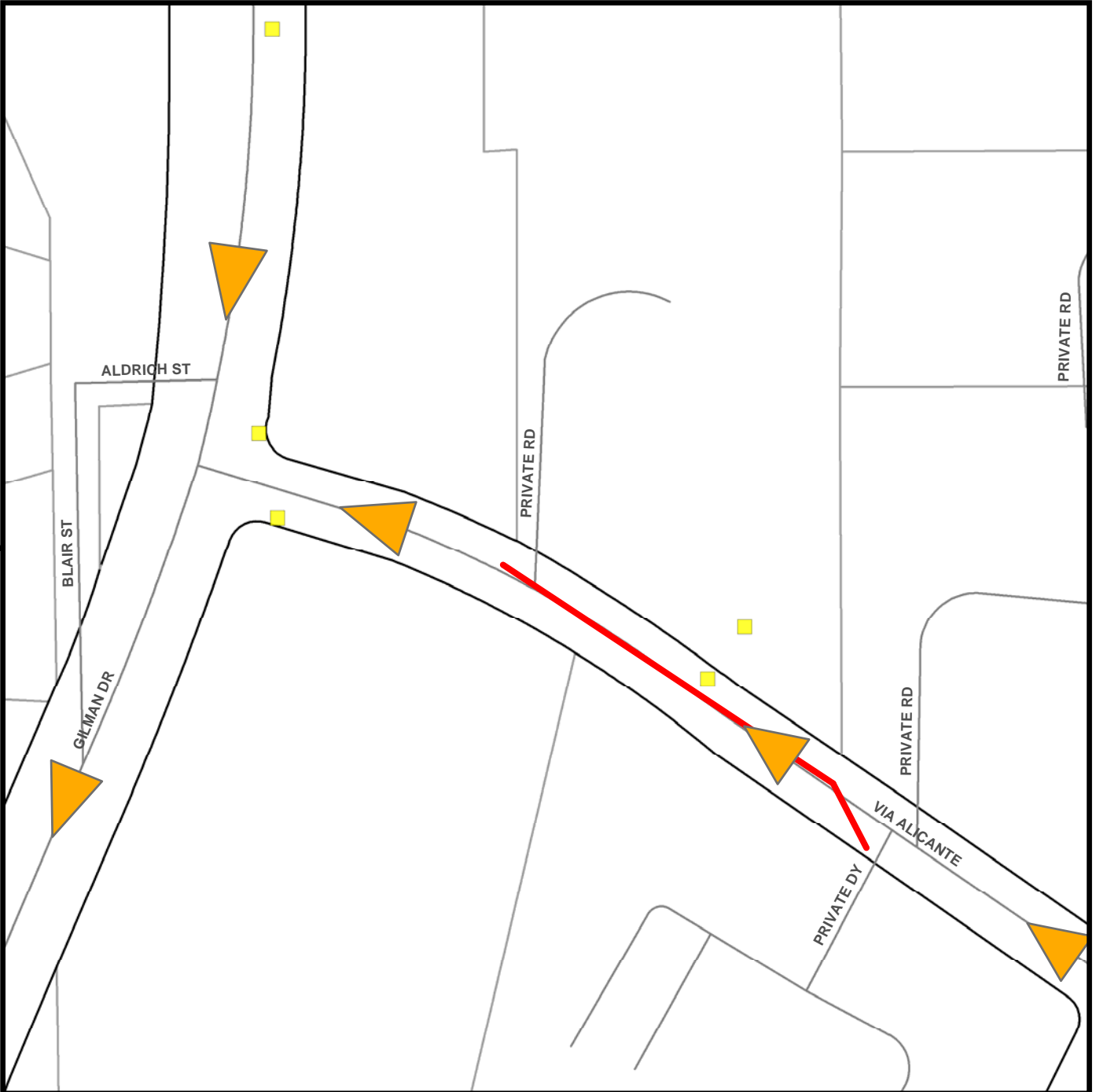
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STORM DRAIN PROTECTION PLAN SHEET 5

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Appendix I - Storm Drain Inlet Protection Plan



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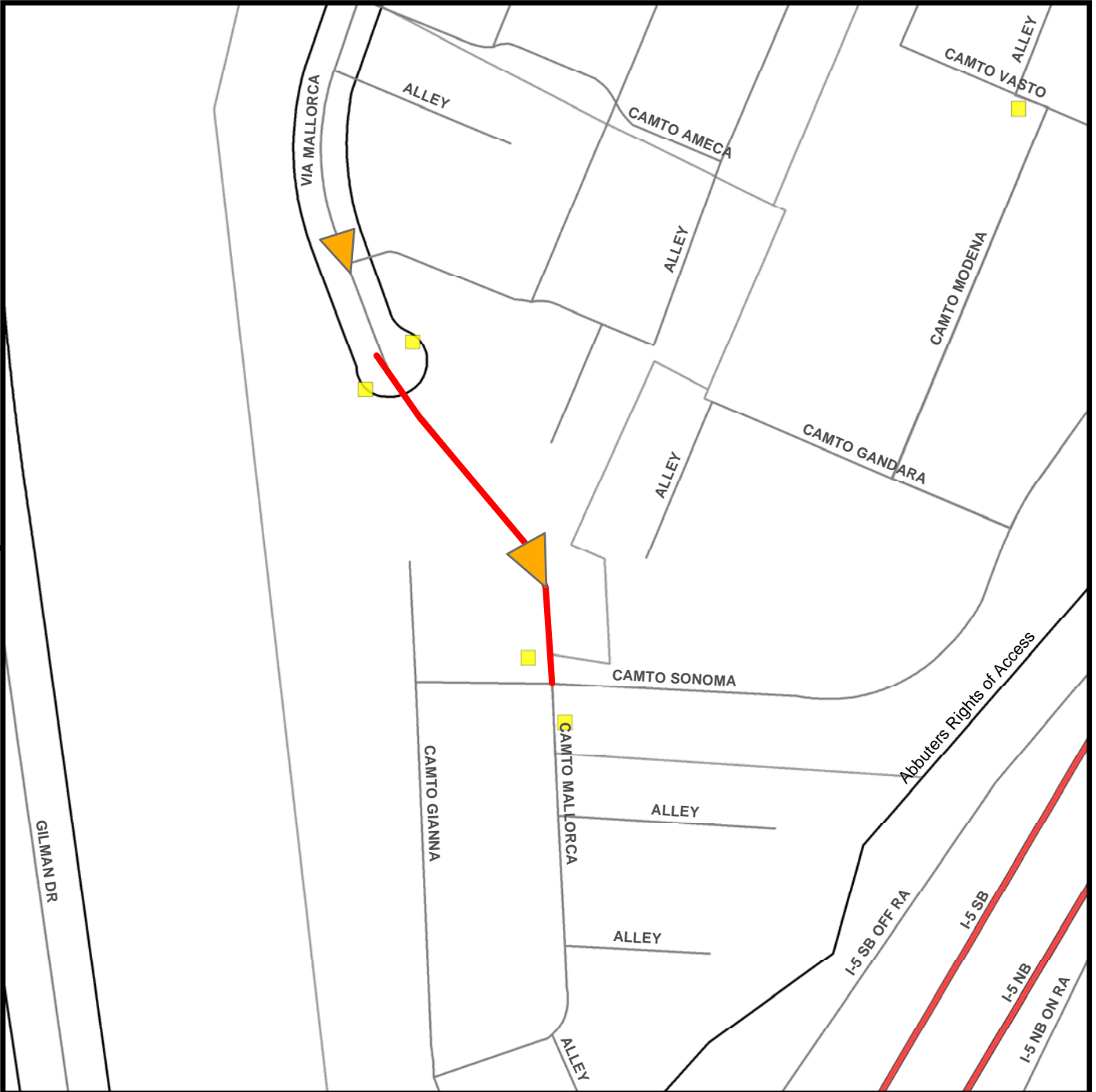
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 6

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Appendix I - Storm Drain Inlet Protection Plan



PIPELINE REHABILITATION Y-1

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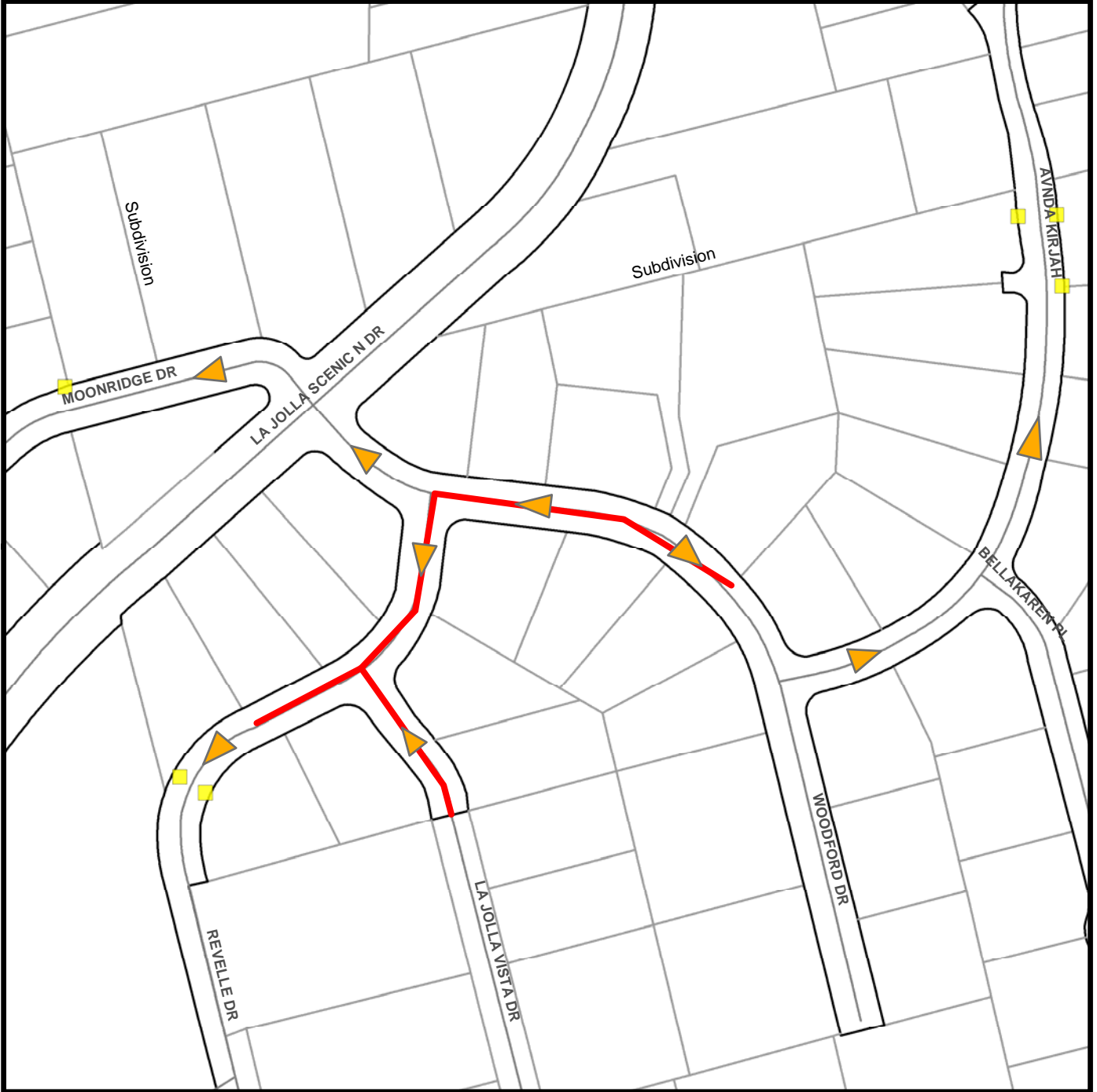
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STORM DRAIN PROTECTION PLAN SHEET 7

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

LA JOLLA

Appendix I - Storm Drain Inlet Protection Plan



PIPELINE REHABILITATION Y-1

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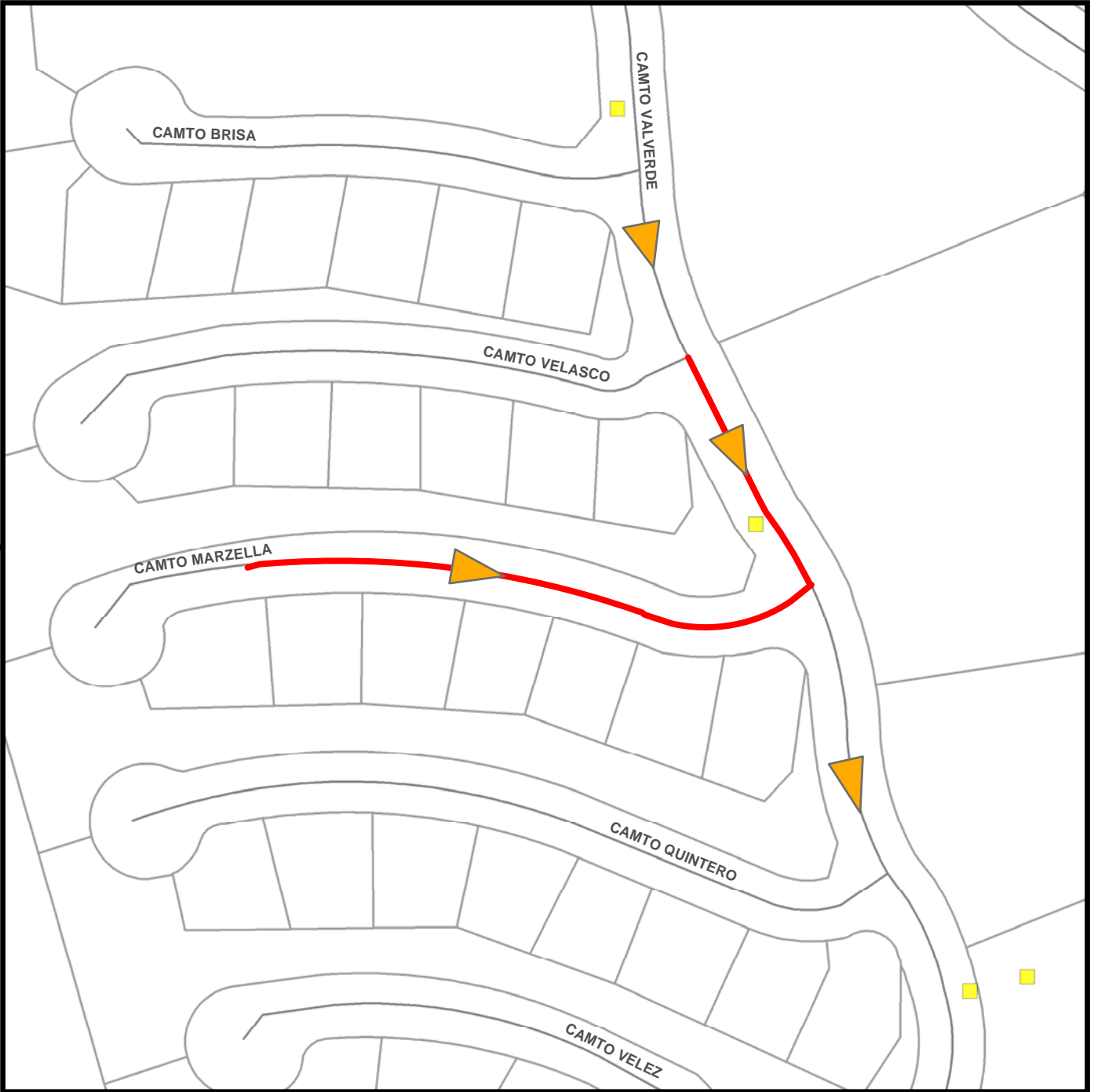
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 8

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Date: March 28, 2013

Appendix I - Storm Drain Inlet Protection Plan



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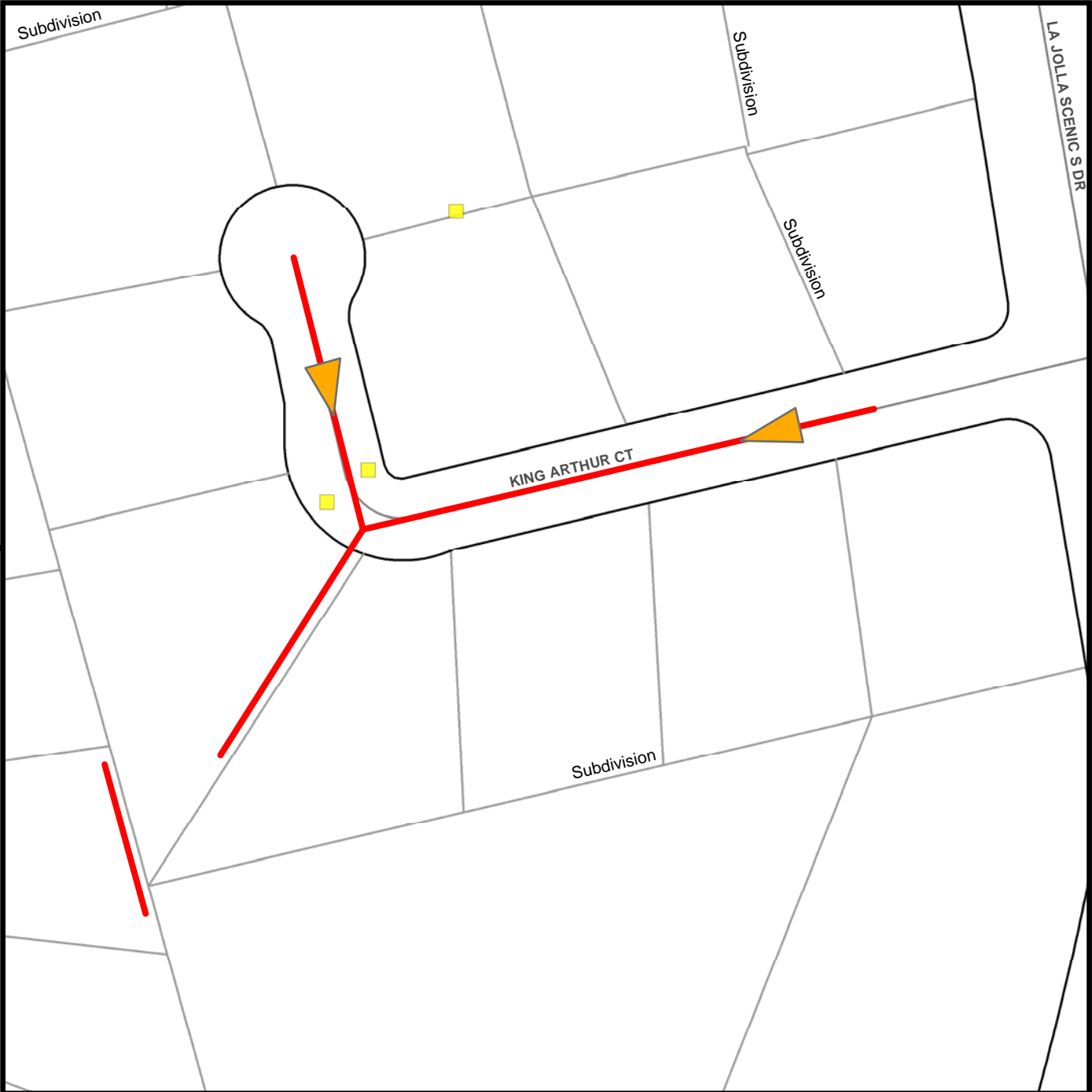
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 9

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Appendix I - Storm Drain Inlet Protection Plan



PIPELINE REHABILITATION Y-1



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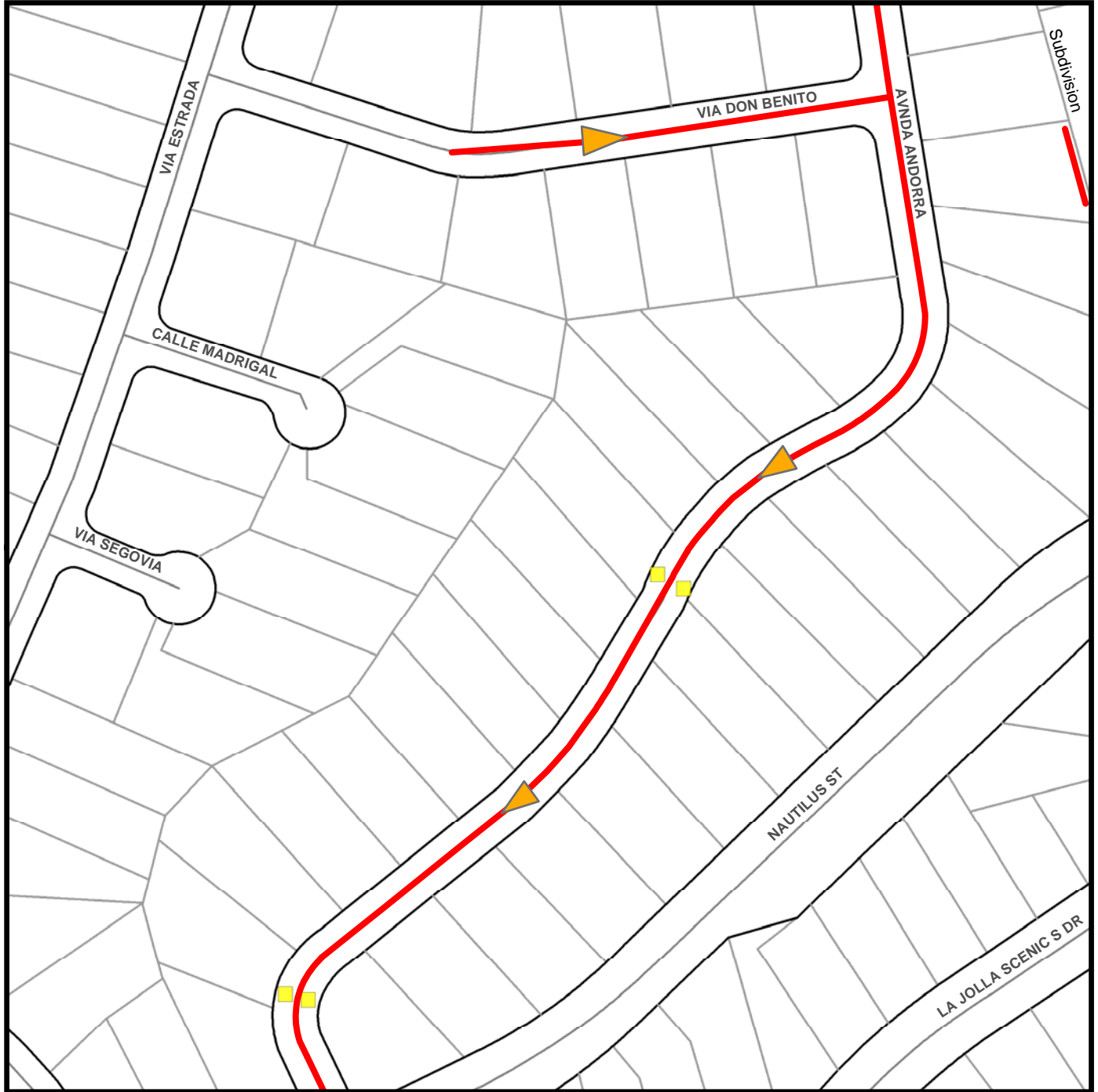
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STORM DRAIN PROTECTION PLAN SHEET 10

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Date: March 28, 2013



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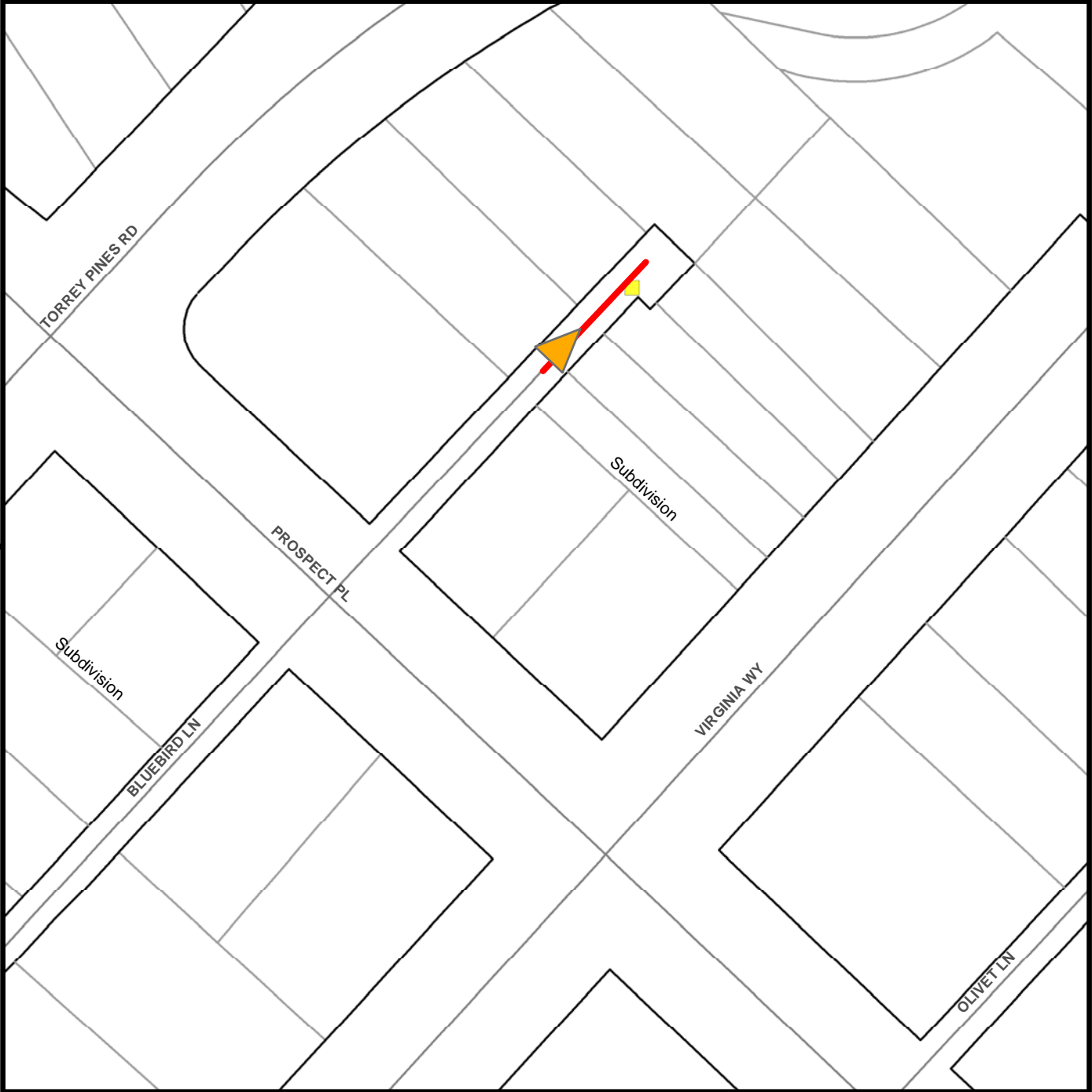
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 11

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

LA JOLLA

Appendix I - Storm Drain Inlet Protection Plan



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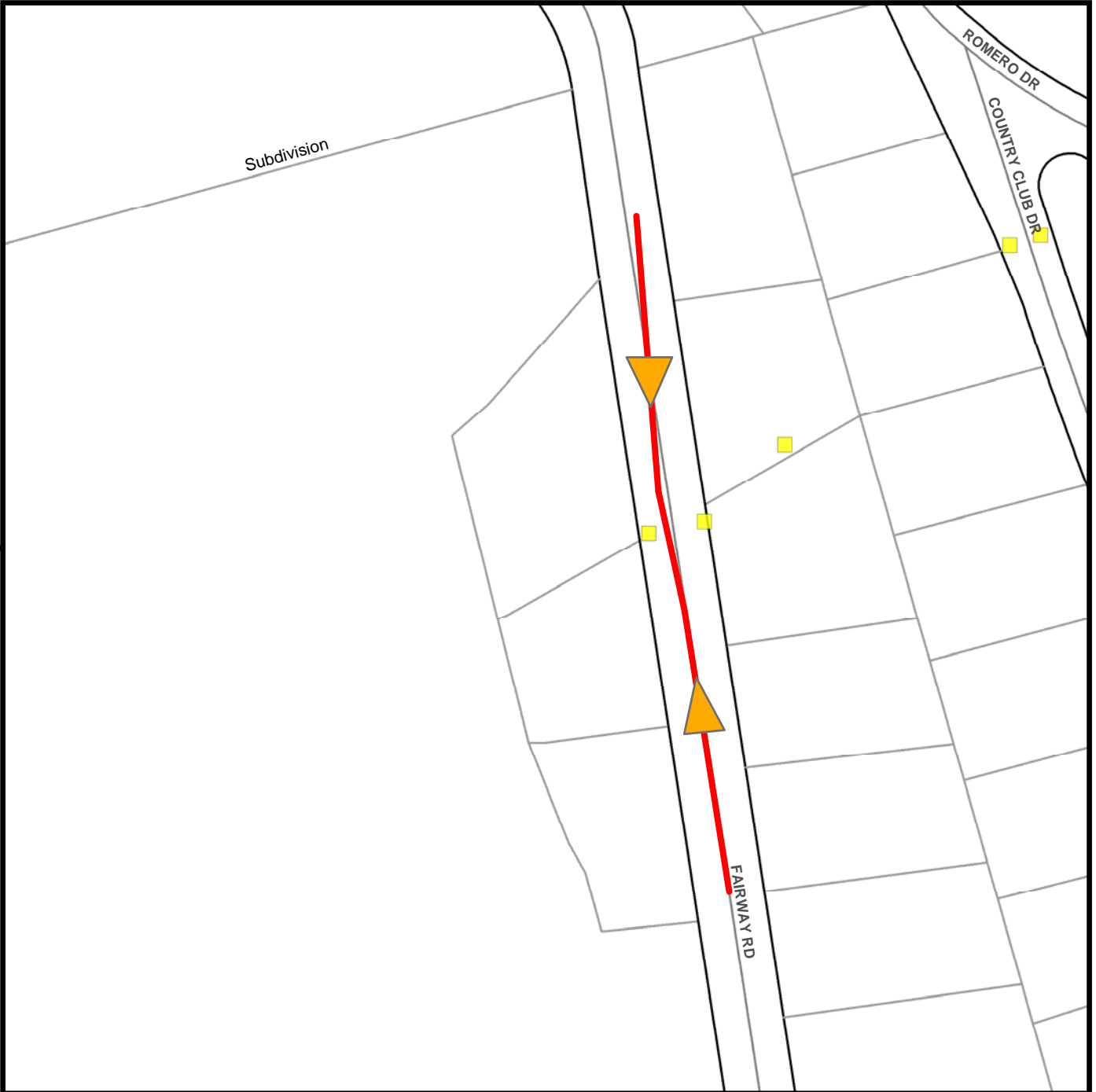
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 12

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Date: March 07, 2013

Appendix I - Storm Drain Inlet Protection Plan



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PIPELINE REHABILITATION Y-1

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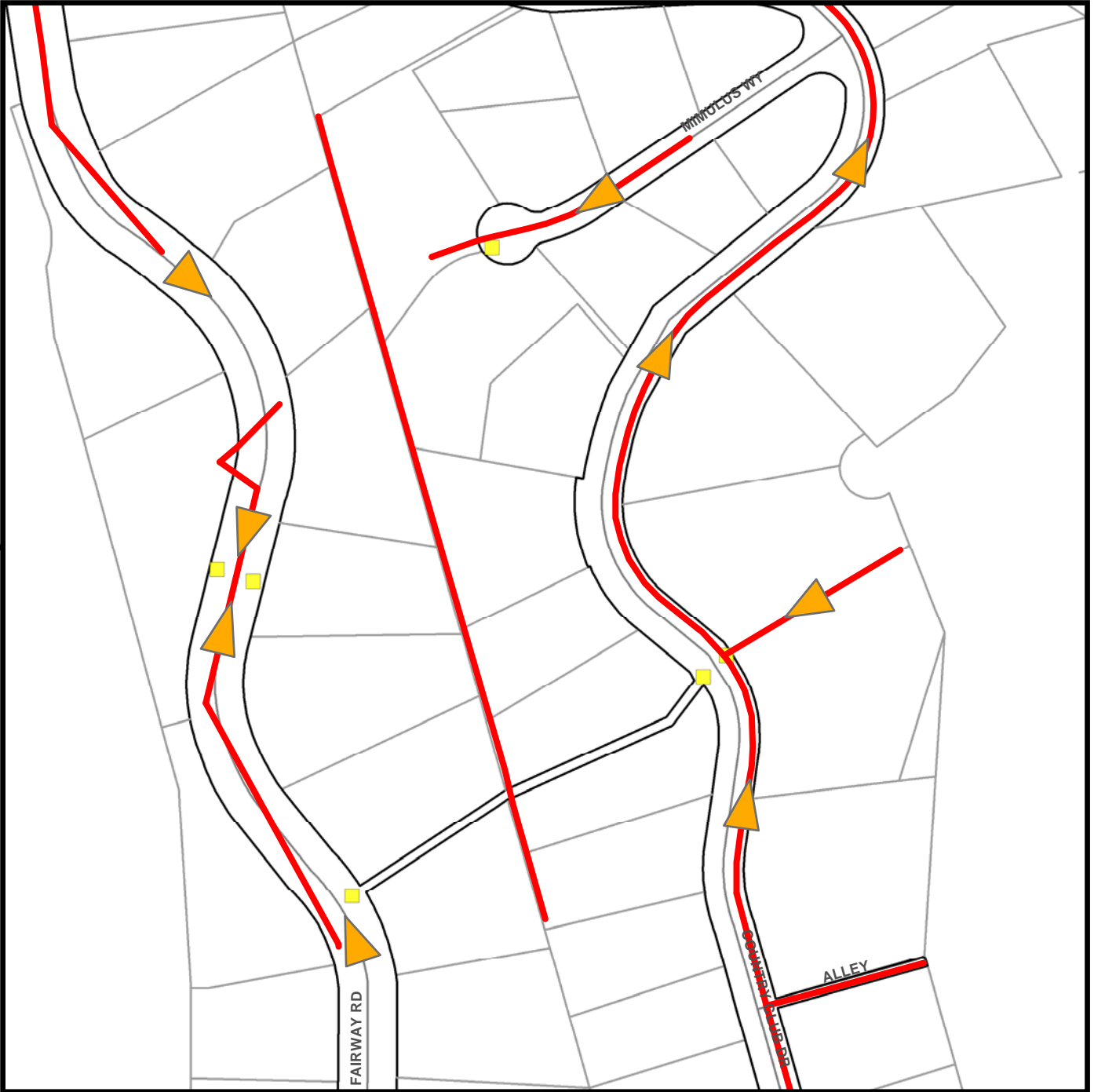
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 13

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

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Appendix I - Storm Drain Inlet Protection Plan



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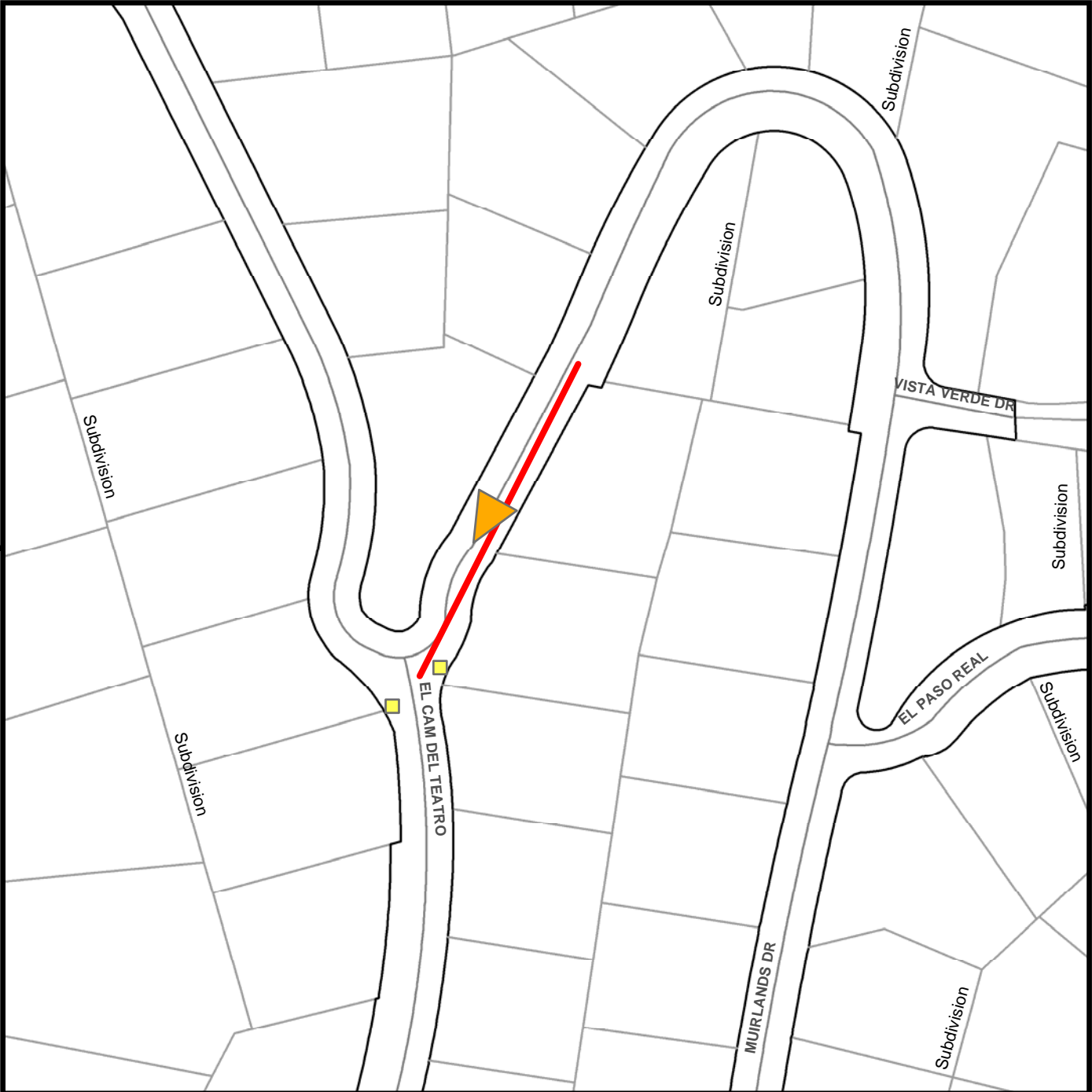
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 14

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Date: March 28, 2013

Appendix I - Storm Drain Inlet Protection Plan



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PIPELINE REHABILITATION Y-1

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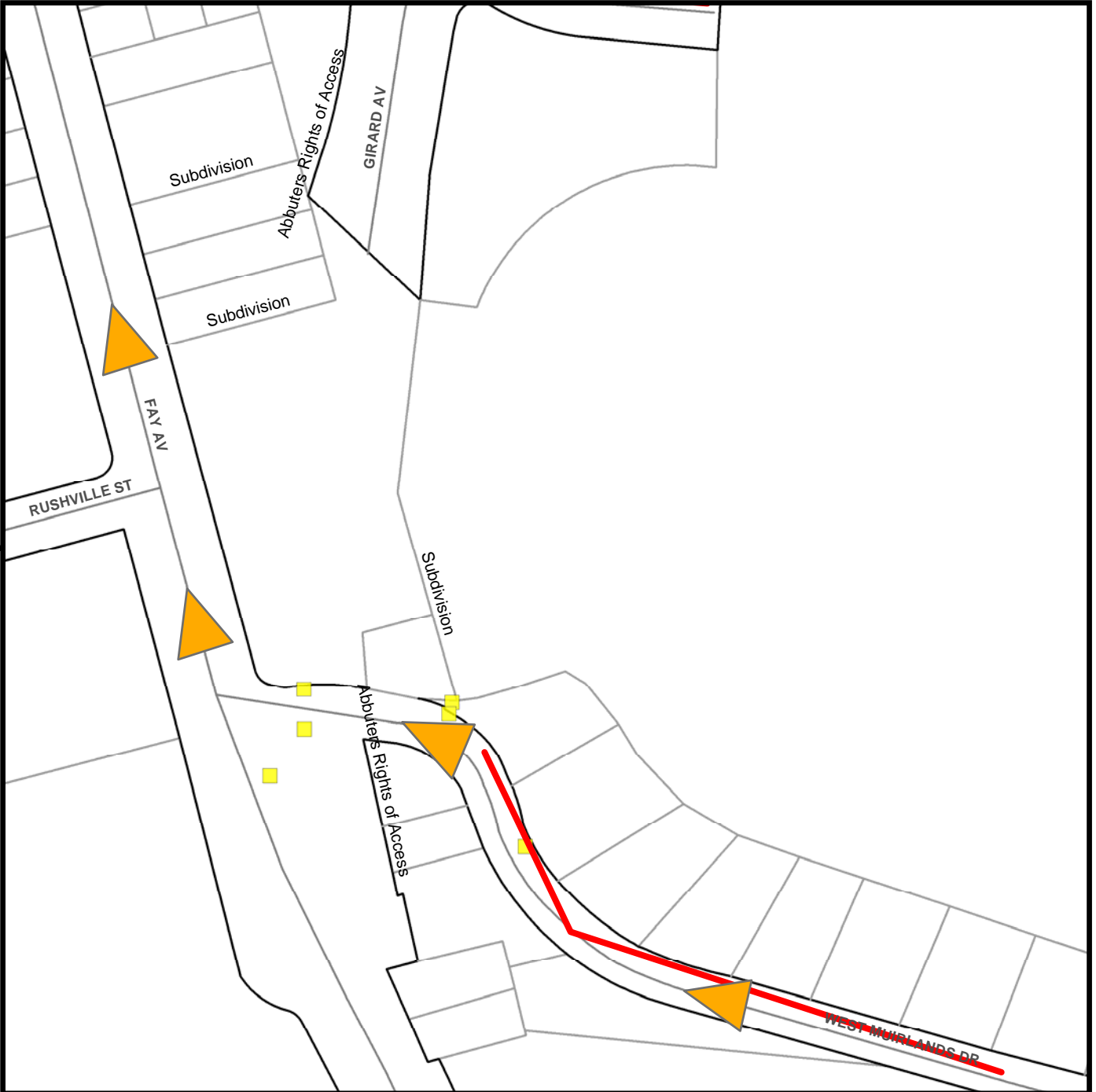
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 15

Legend

— Pipeline_Rehab

▶ Storm Drain Flow

■ Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Appendix I - Storm Drain Inlet Protection Plan



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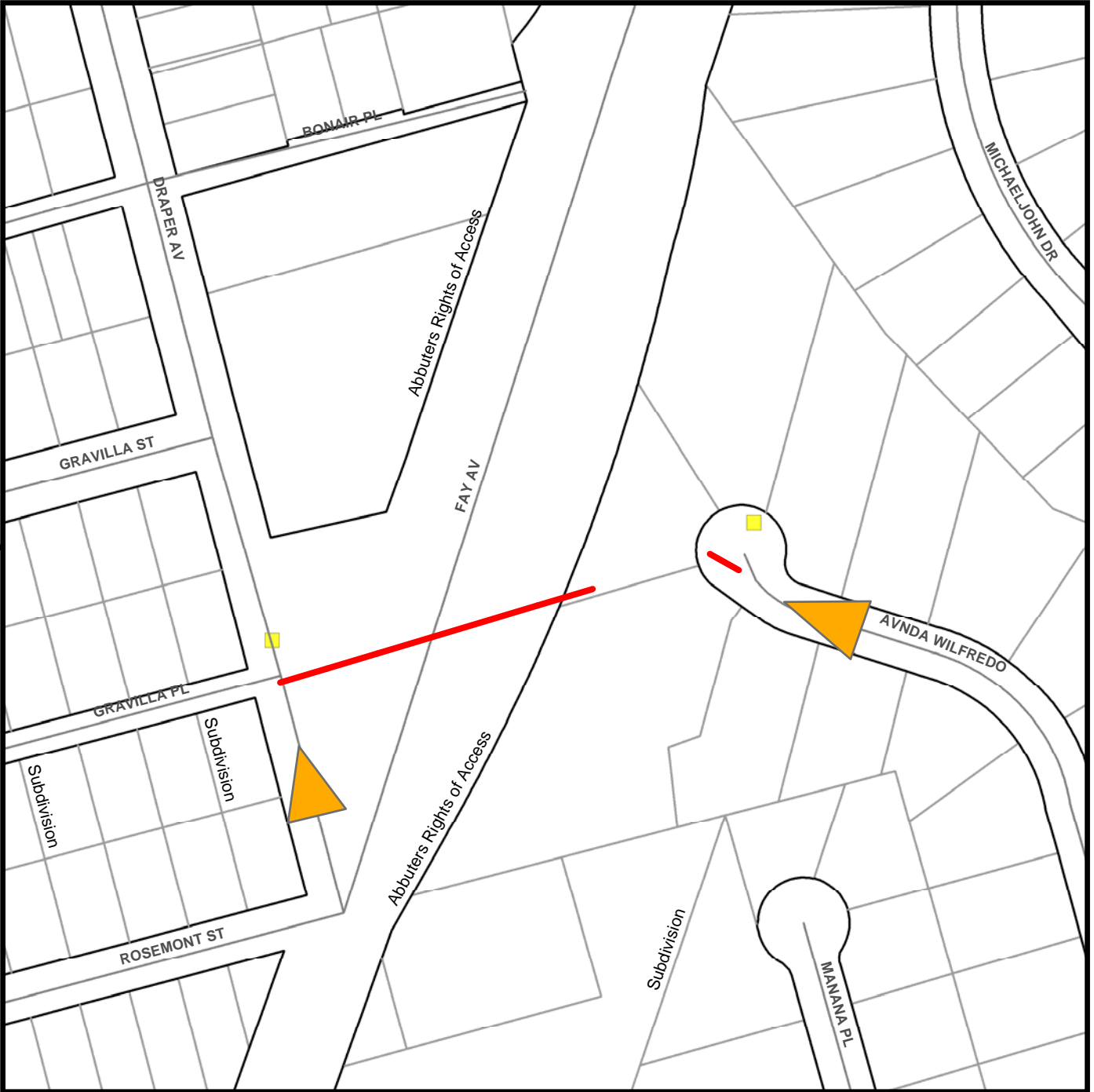
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 16

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Appendix I - Storm Drain Inlet Protection Plan



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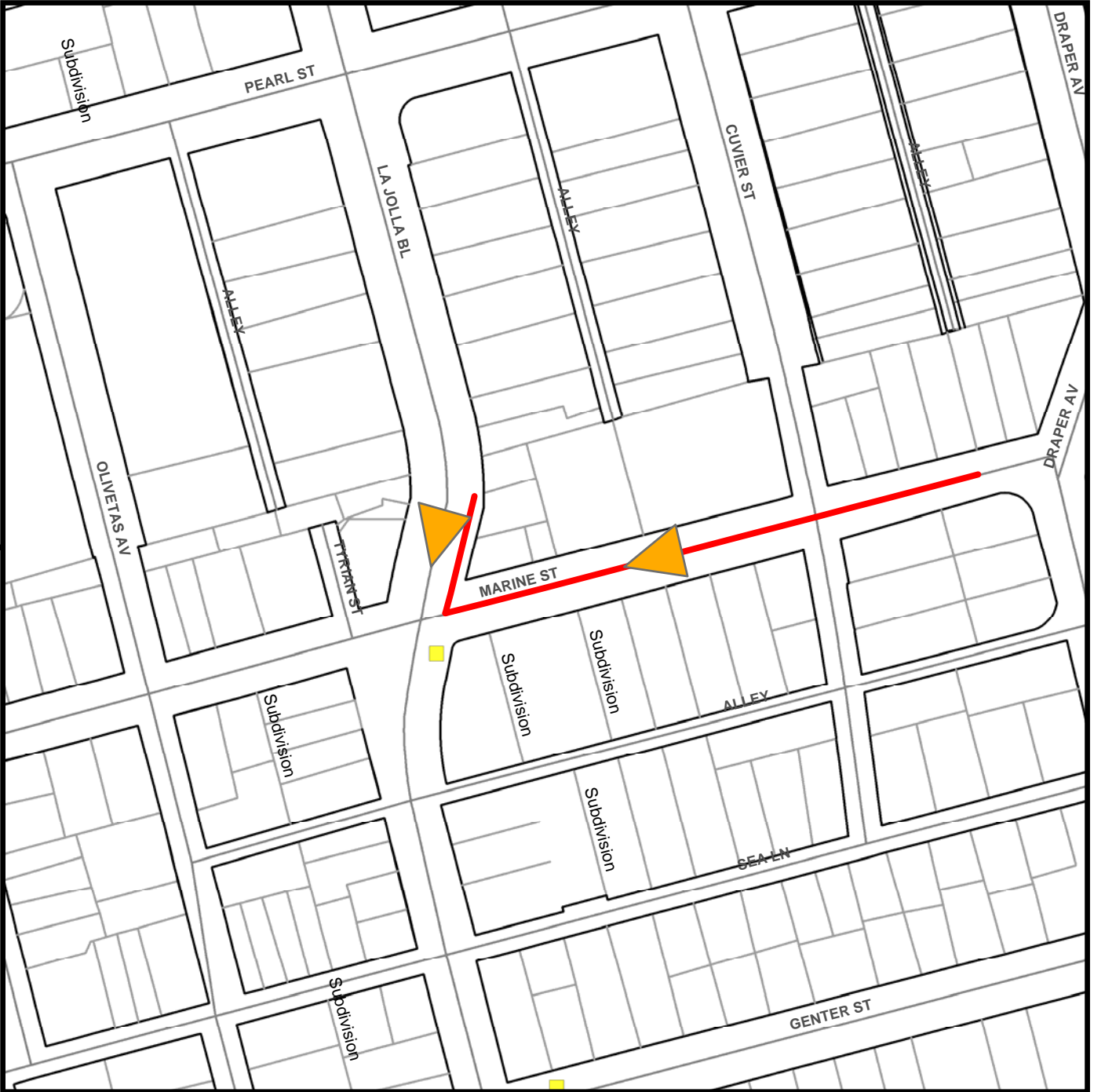
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 17

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Date: March 07, 2013

Appendix I - Storm Drain Inlet Protection Plan



PIPELINE REHABILITATION Y-1

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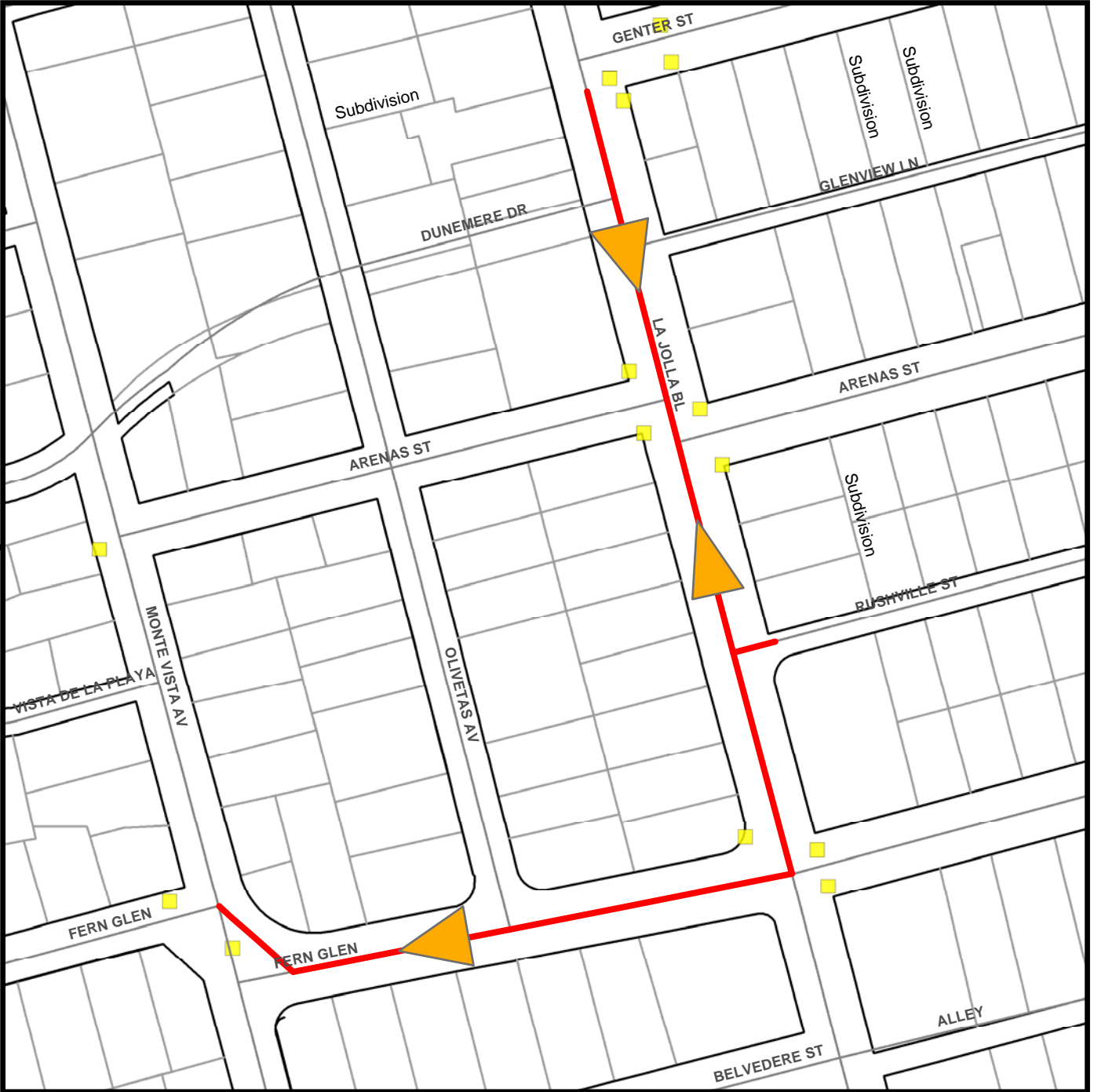
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STORM DRAIN PROTECTION PLAN SHEET 18

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

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Appendix I - Storm Drain Inlet Protection Plan



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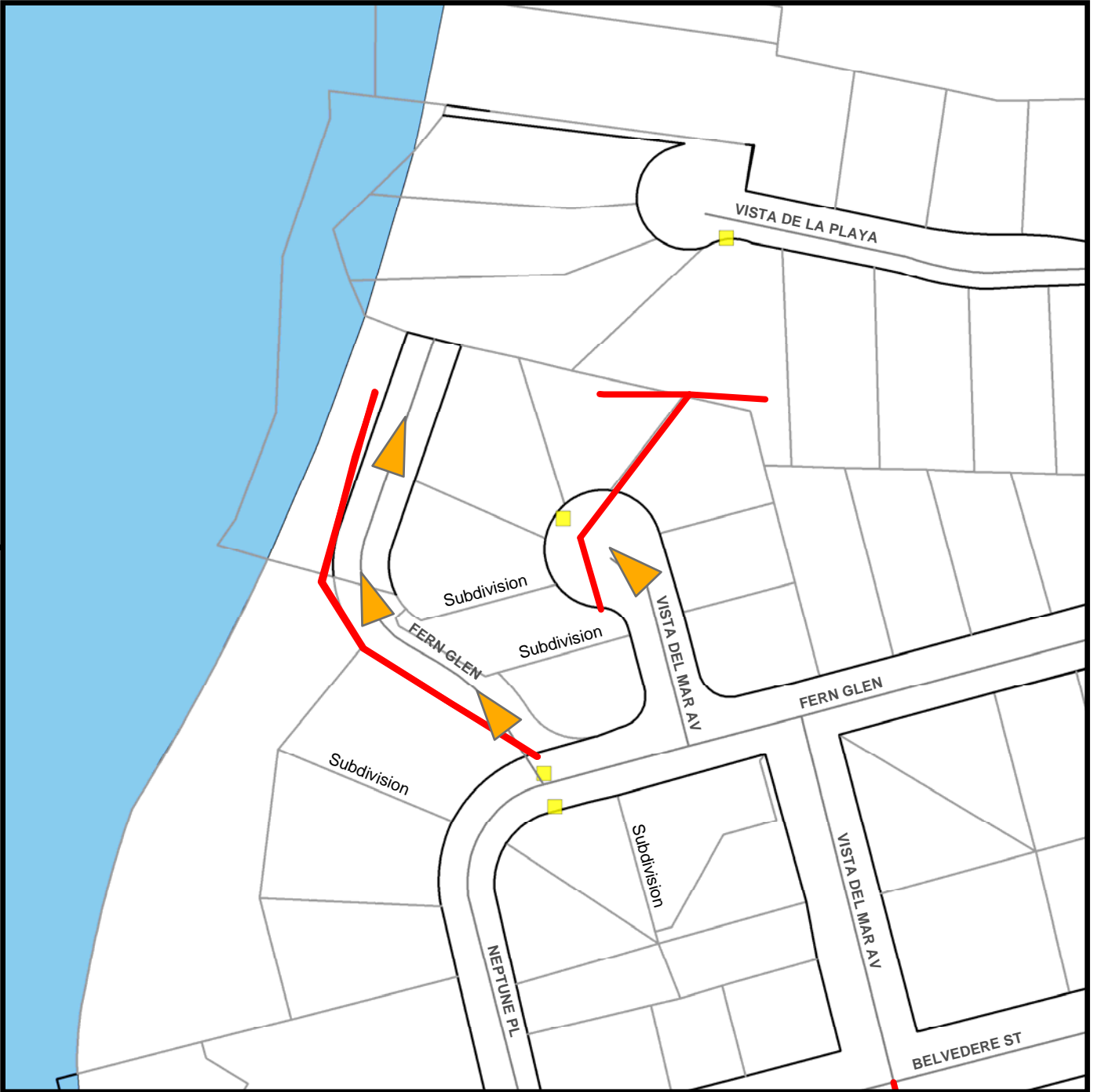
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Division Name - If Needed



STORM DRAIN PROTECTION PLAN SHEET 19

Legend

Pipeline_Rehab

Storm Drain Flow

Storm Inlet



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B-13094 (S)

Date: March 28, 2013

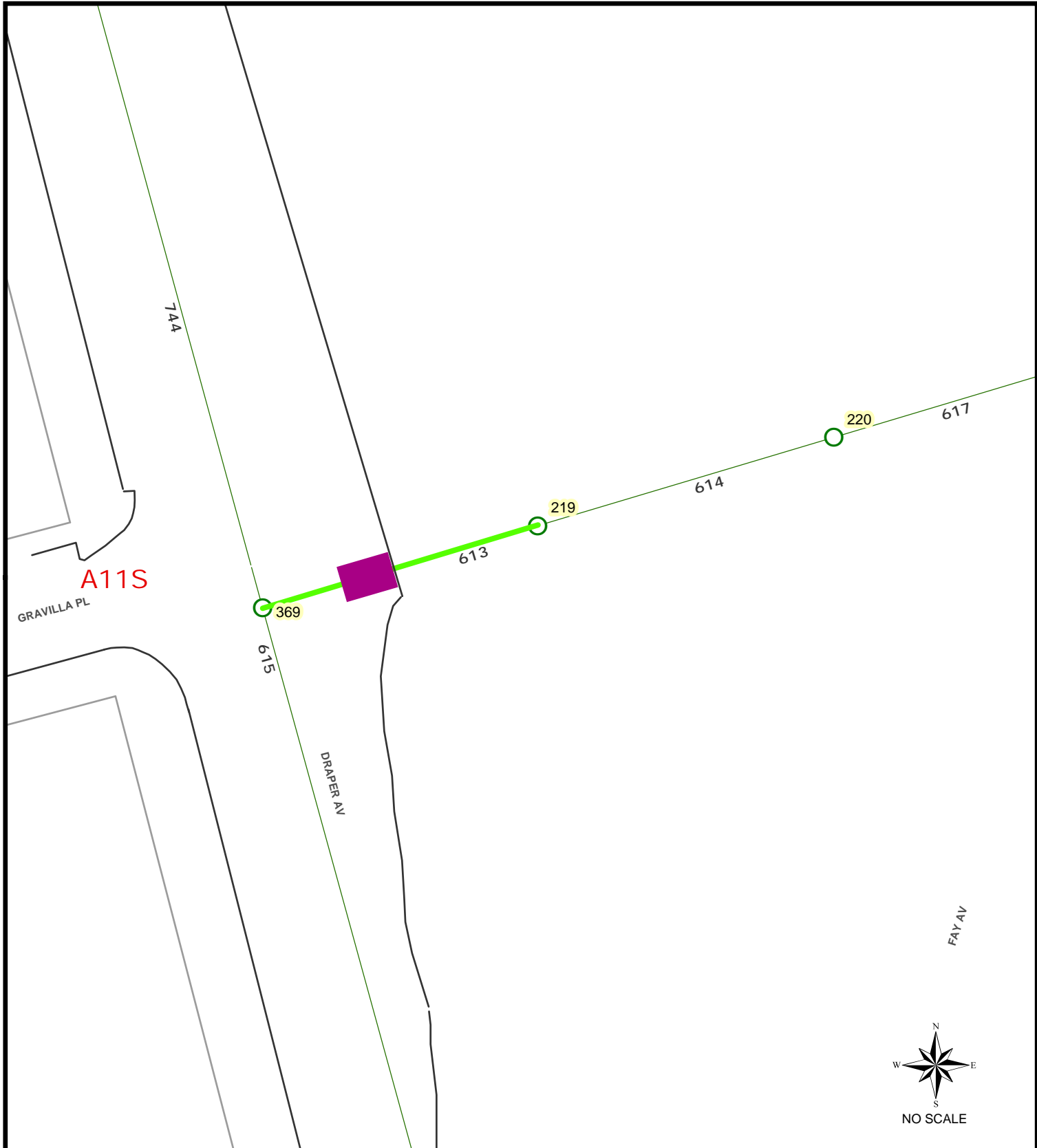
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APPENDIX J
SLURRY SEAL PLAN



SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHAB PROJECT Y-1

SLURRY SEAL

Legend

- Slurry Seal
- Pipeline Rehab
- 143 Manhole ID
- 613 Facility Sequence Number

WBS: B-13094

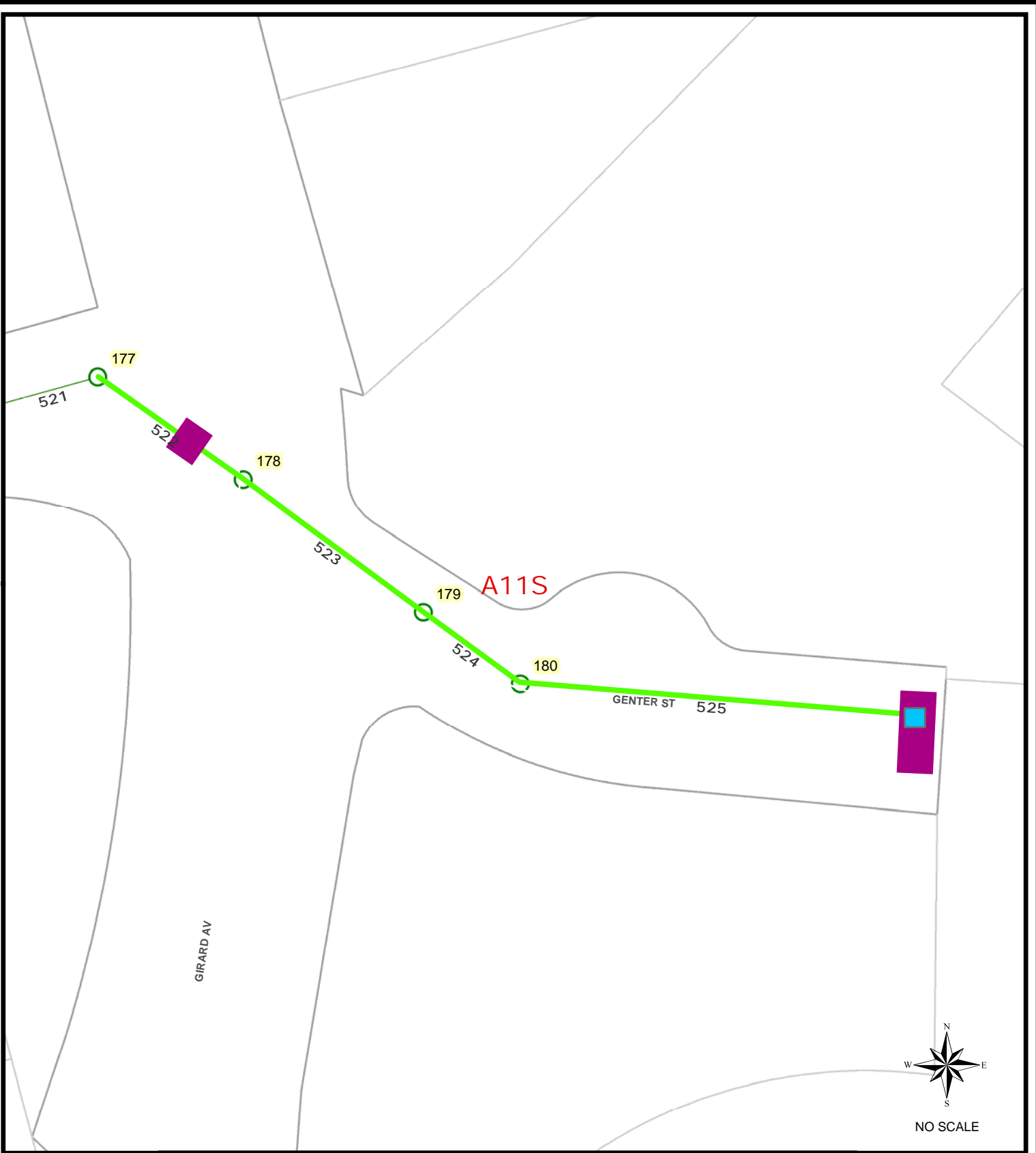
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

March 28, 2013



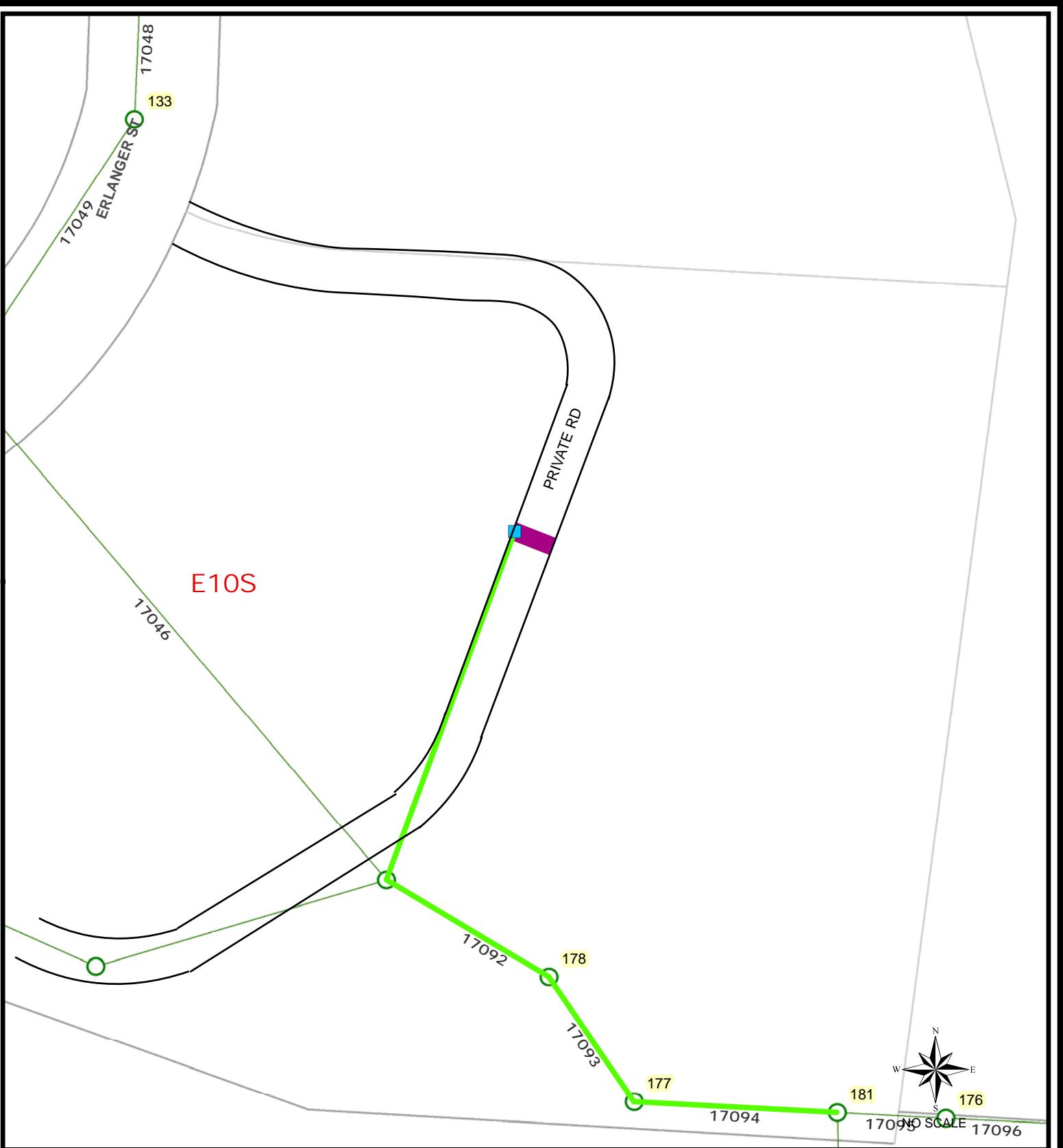

 SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHAB PROJECT Y-1

SLURRY SEAL

	Slurry Seal		Pipeline Rehab
	Cleanouts		
	143 Manhole ID		
	522 Facility Sequence Number		

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 Intersection of
 GIRARD AV & GENTER ST
 March 28, 2013



SEWER REHAB PROJECT Y-1

SLURRY SEAL

<p>Legend</p> <ul style="list-style-type: none"> ■ Cleanouts 101712 ● Manhole Replacement — Pipeline_Rehab_Y-1_10212 ■ Slurry Seal 	<p>143 Manhole ID</p> <p>754 Facility Sequence Number</p>
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CITY OF SAN DIEGO
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 DEPARTMENT

SENIOR ENGINEER
WENDY GAMBOA

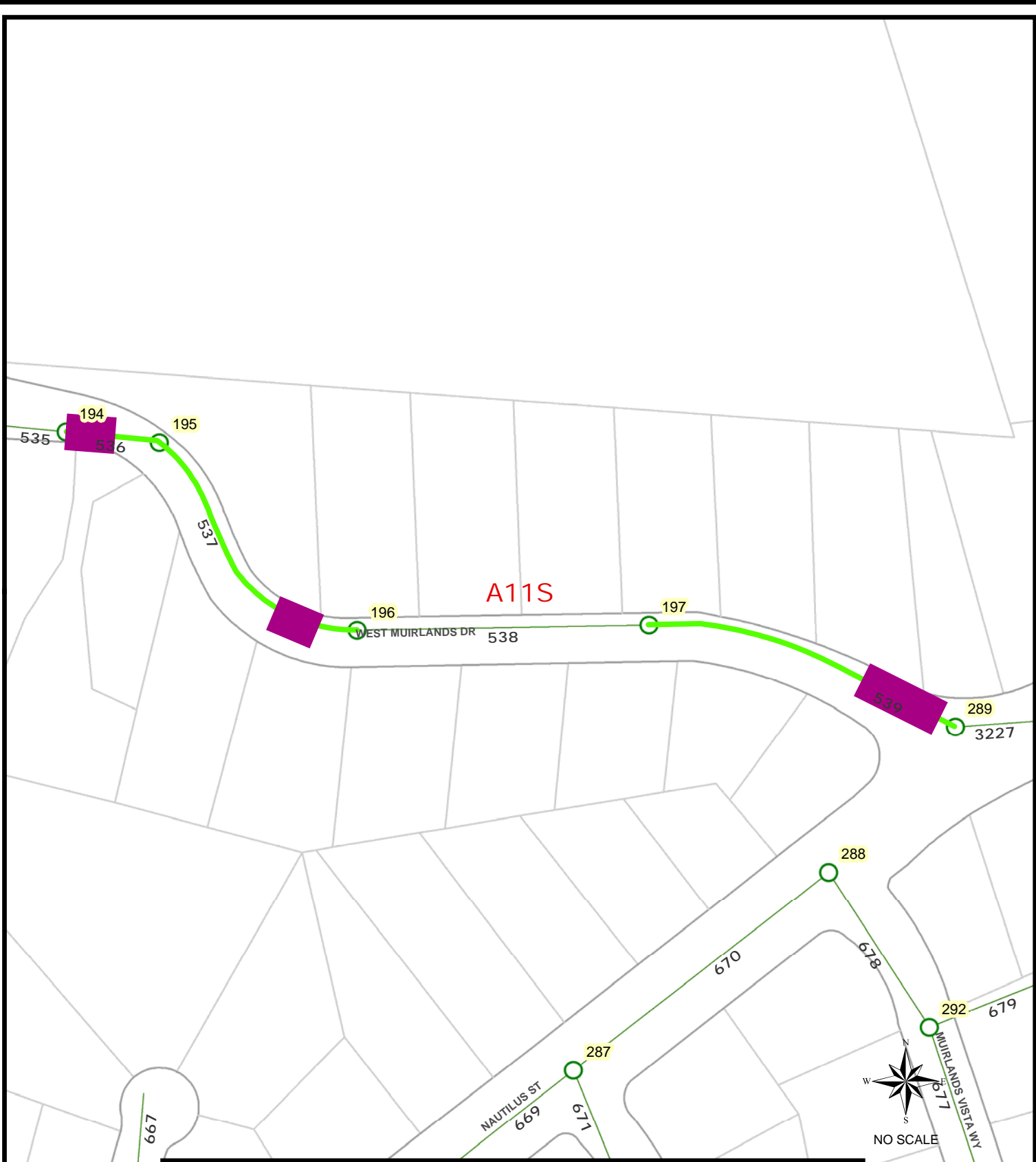
ASSOCIATE ENGINEER
JIM HAGGOUY

PROJECT ENGINEER
FRANCIS MARQUEZ

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SEWER REHAB PROJECT Y-1 SLURRY SEAL

Legend

- Slurry Seal
- Pipeline Rehab
- Manhole ID
- 143 Facility Sequence Number



SENIOR ENGINEER
WENDY GAMBOA

ASSOCIATE ENGINEER
JIM HAGGOUY

PROJECT ENGINEER
FRANCIS MARQUEZ

WBS: B-13094

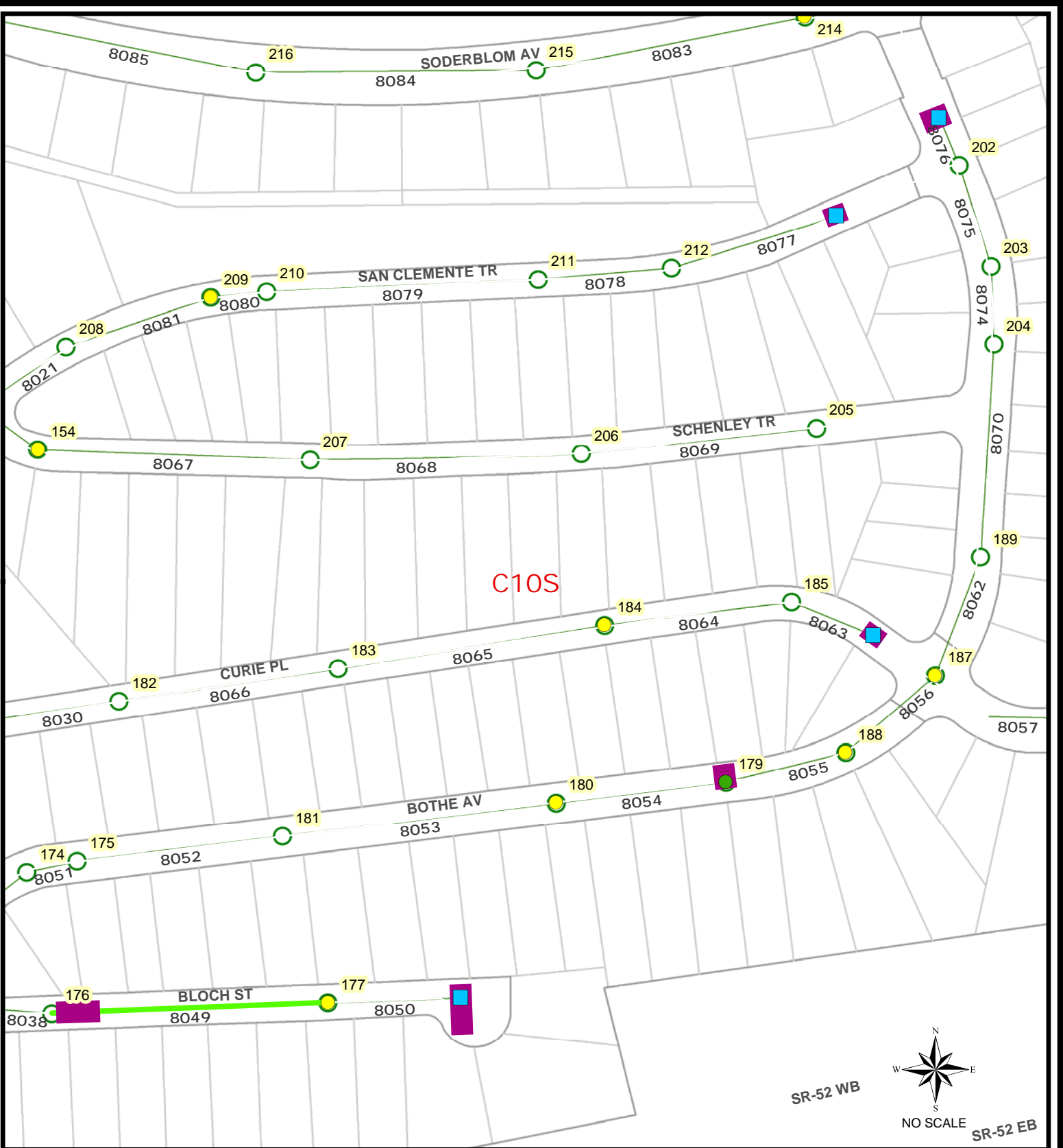
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March 28, 2013



SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

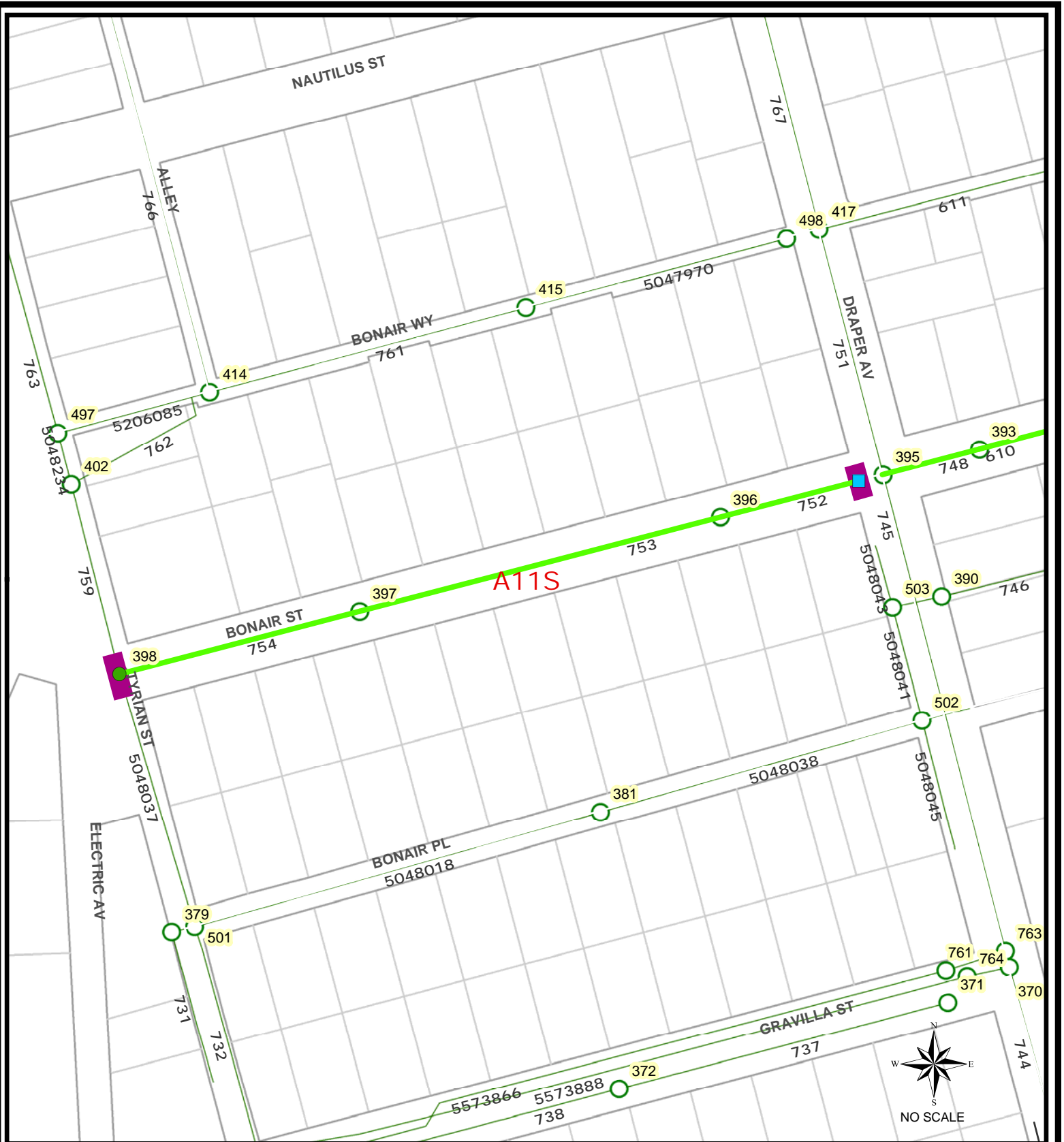
Legend

- Cleanouts 101712
- Manhole Replacement
- Manhole Rehab
- Slurry Seal
- Pipeline Rehab

SEWER REHAB PROJECT Y-1
SLURRY SEAL

143 Manhole ID
 754 Facility Sequence Number

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SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

SEWER REHAB PROJECT Y-1
SLURRY SEAL

143 Manhole ID
 754 Facility Sequence Number

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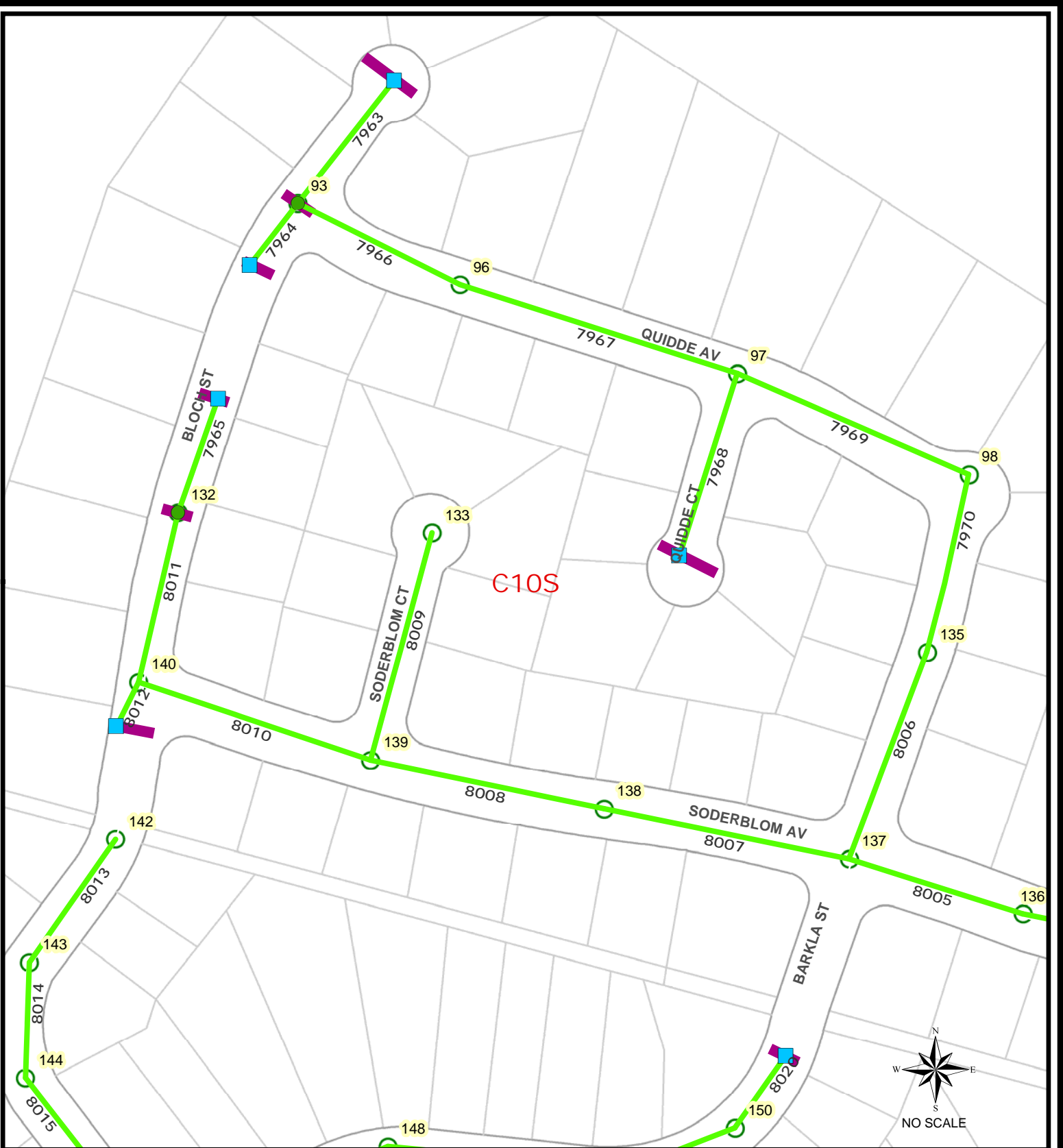
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C105



SENIOR ENGINEER
WENDY GAMBOA
ASSOCIATE ENGINEER
JIM HAGGOUY
PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHAB PROJECT Y-1 SLURRY SEAL

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

143 Manhole ID
754 Facility Sequence Number

WBS: B-13094

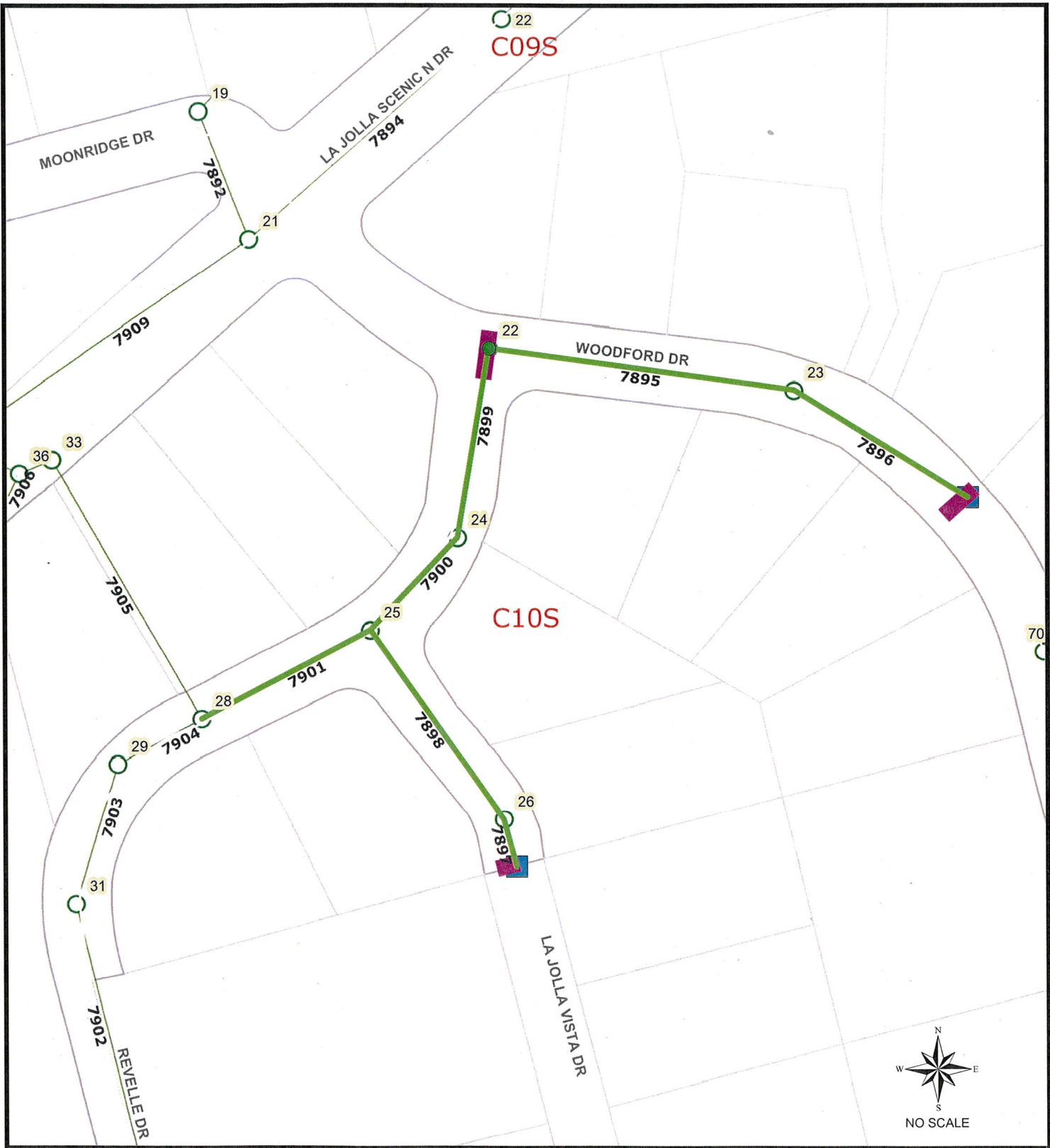
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SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

Legend

- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal
- Cleanouts

SEWER REHAB PROJECT Y-1
SLURRY SEAL

143 Manhole ID
 754 Facility Sequence Number

WBS: B-13094

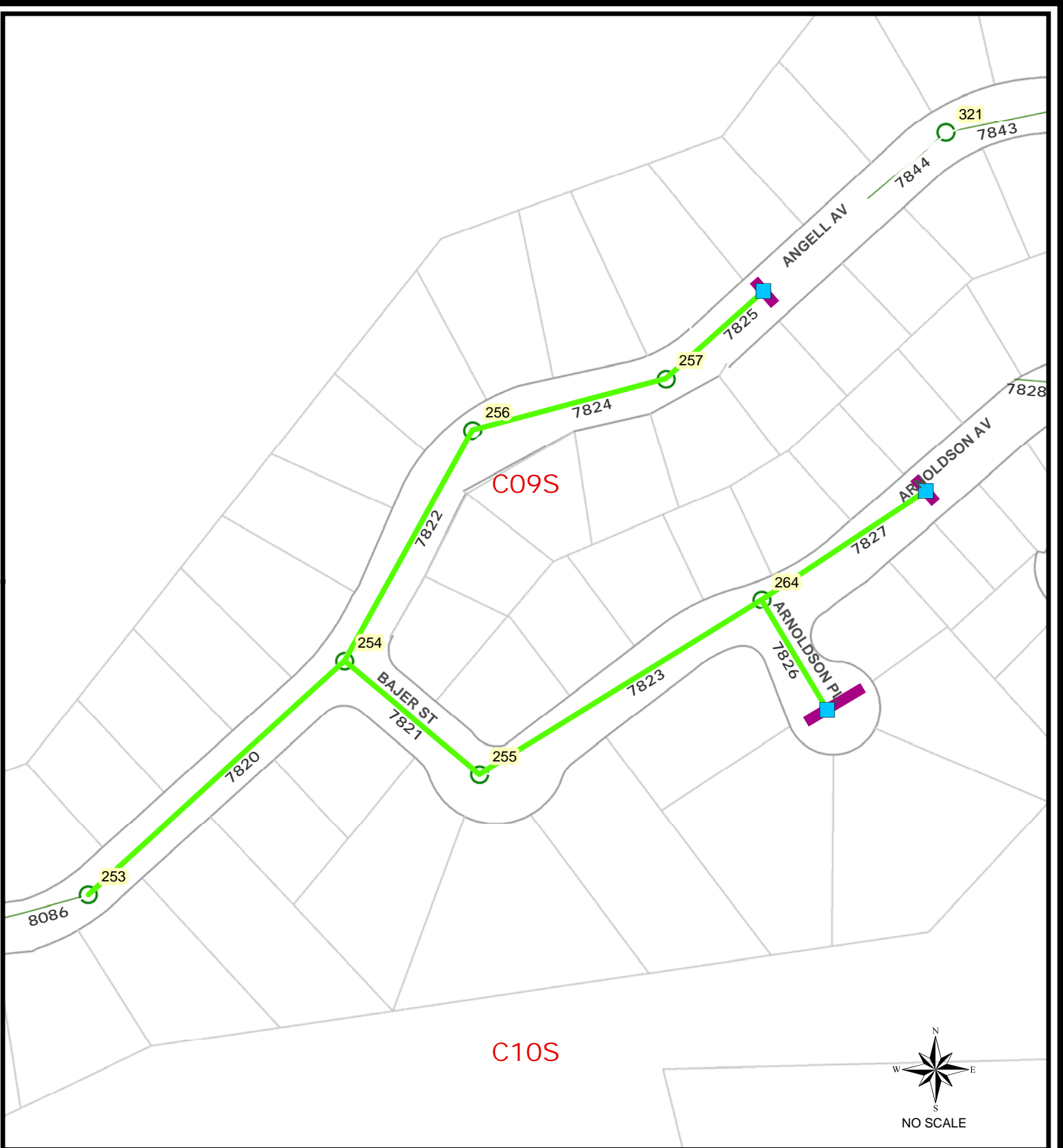
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SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

SEWER REHAB PROJECT Y-1
SLURRY SEAL

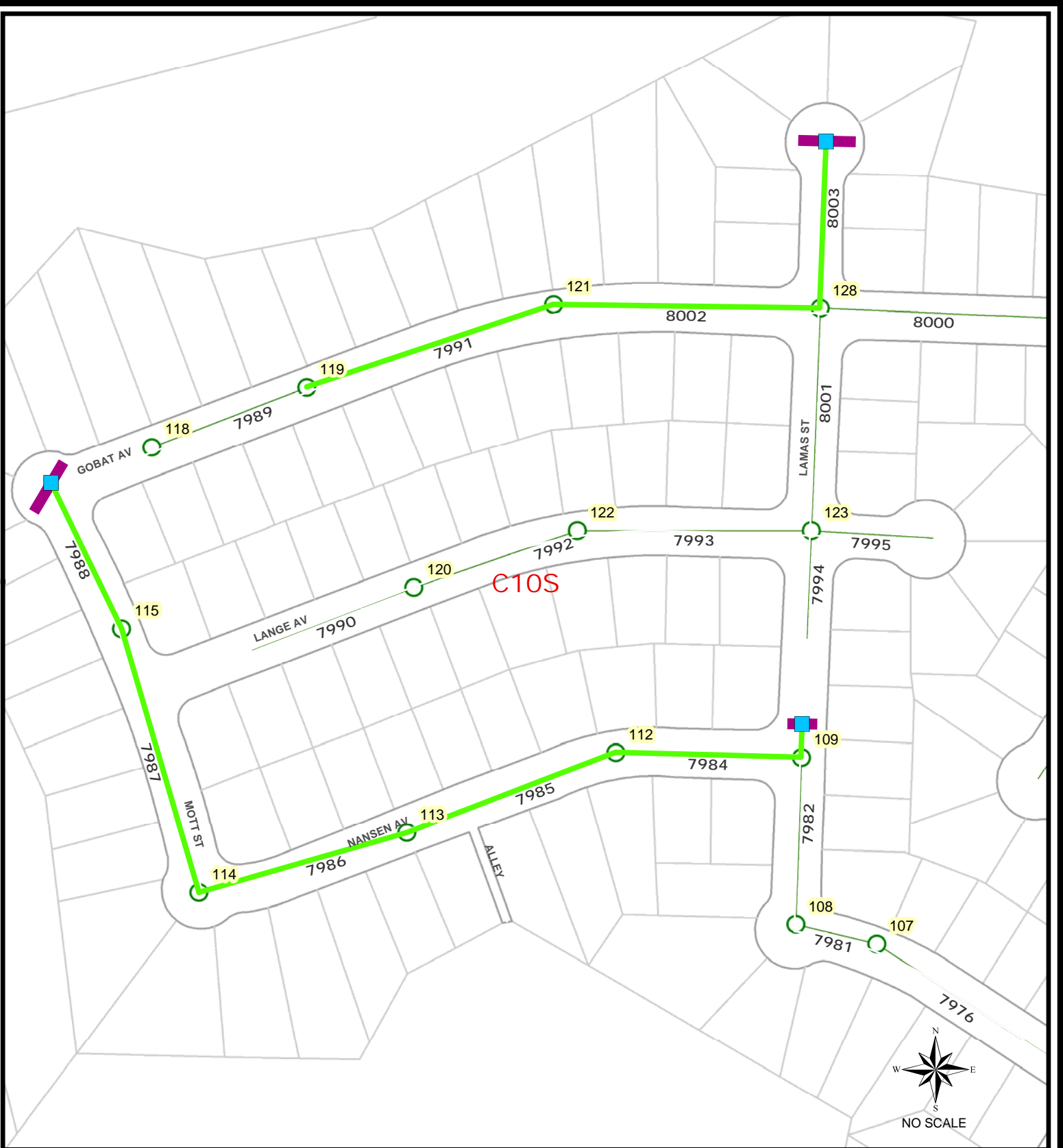
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754 Facility Sequence Number

WBS: B-13094

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SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

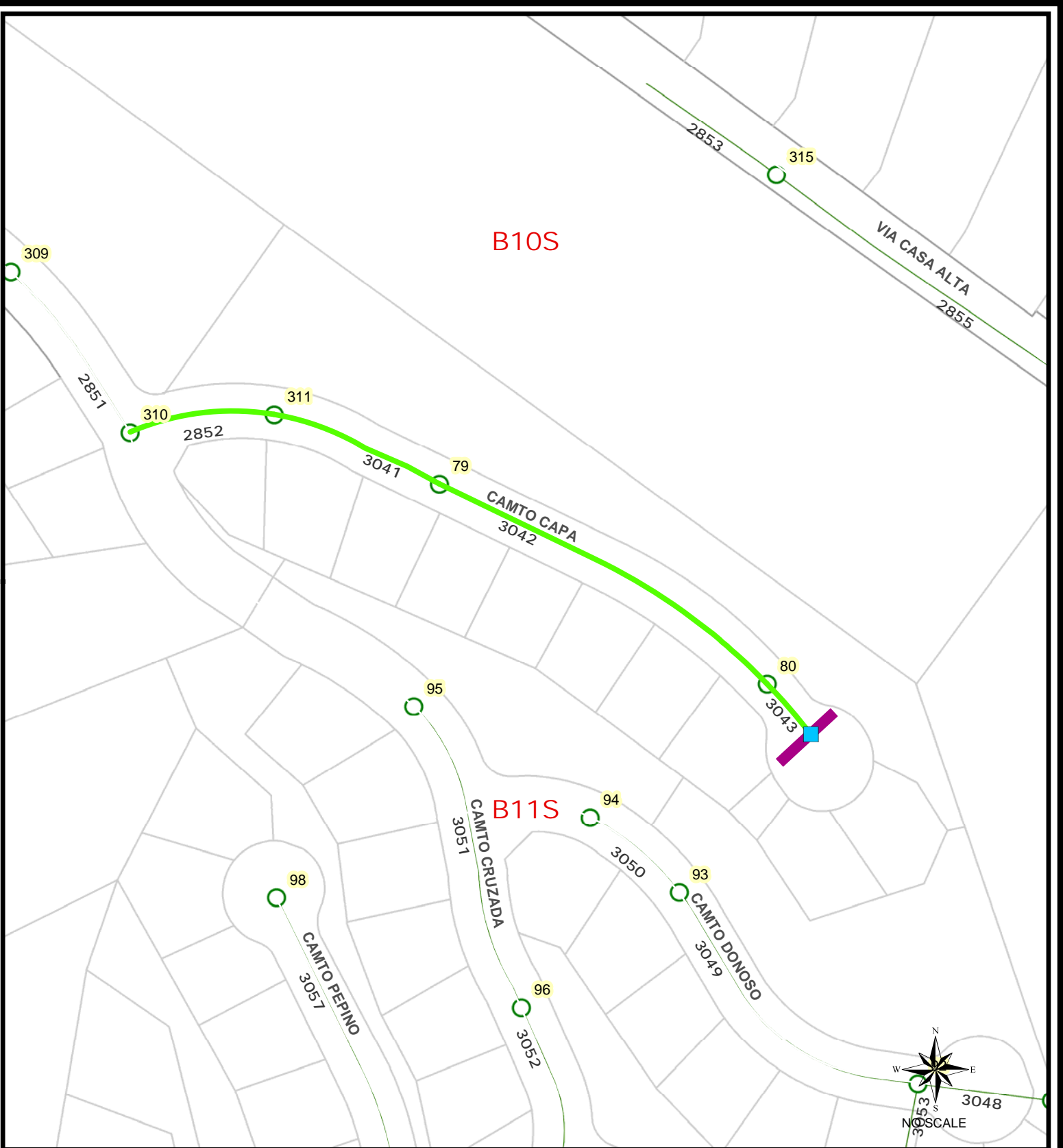
Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

SEWER REHAB PROJECT Y-1
SLURRY SEAL

143 Manhole ID
 754 Facility Sequence Number

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SEWER REHAB PROJECT Y-1 SLURRY SEAL

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

143 Manhole ID
754 Facility Sequence Number

WBS: B-13094

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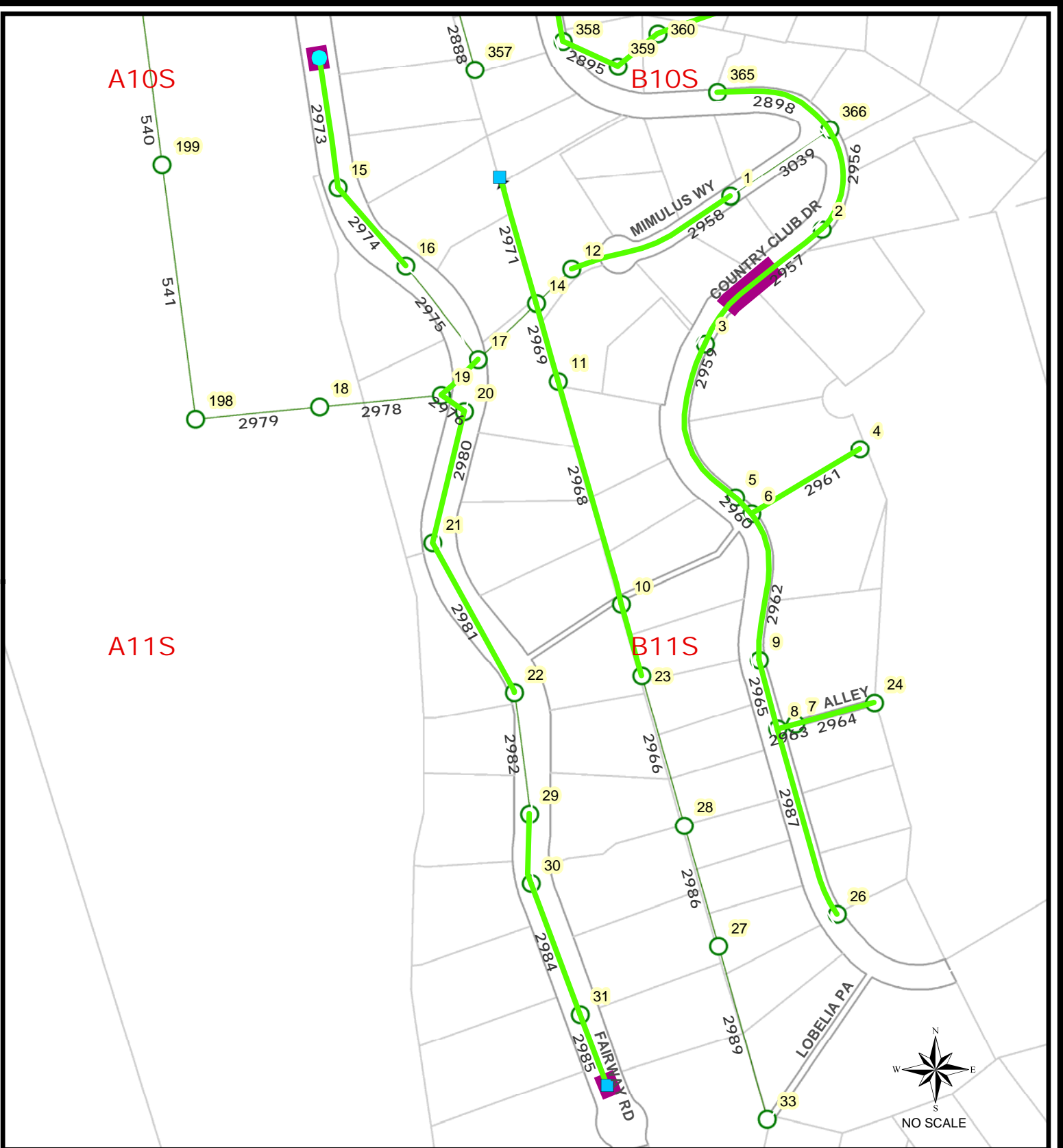
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WENDY GAMBOA

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JIM HAGGOUY

PROJECT ENGINEER
FRANCIS MARQUEZ

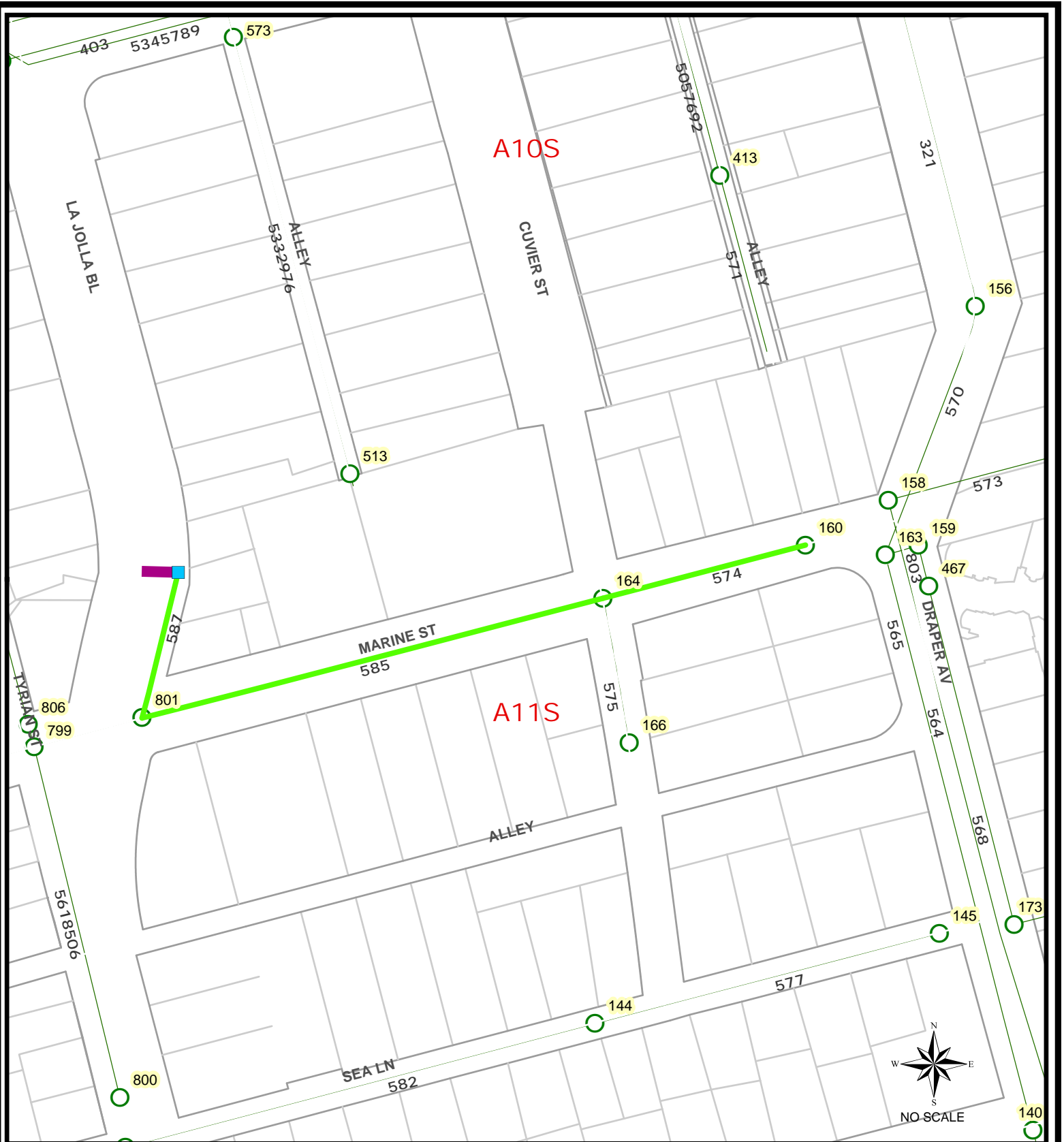
Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal
- Cleanouts

SEWER REHAB PROJECT Y-1
SLURRY SEAL

143 Manhole ID
 754 Facility Sequence Number

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 PROJECT ENGINEER
FRANCIS MARQUEZ

SEWER REHAB PROJECT Y-1 SLURRY SEAL

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

143 Manhole ID
754 Facility Sequence Number

WBS: B-13094

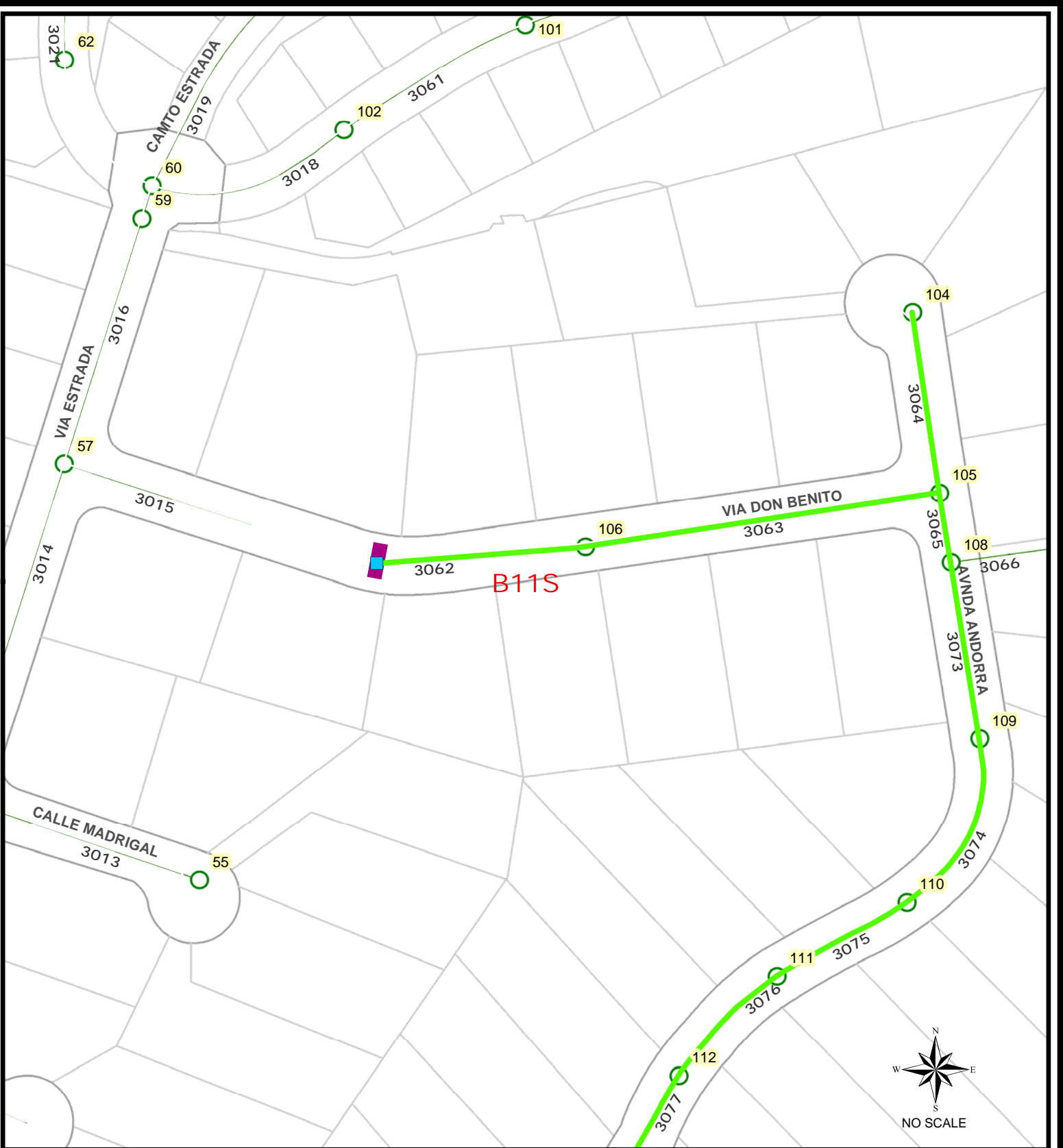
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SEWER REHAB PROJECT Y-1

SLURRY SEAL

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

143 Manhole ID
754 Facility Sequence Number

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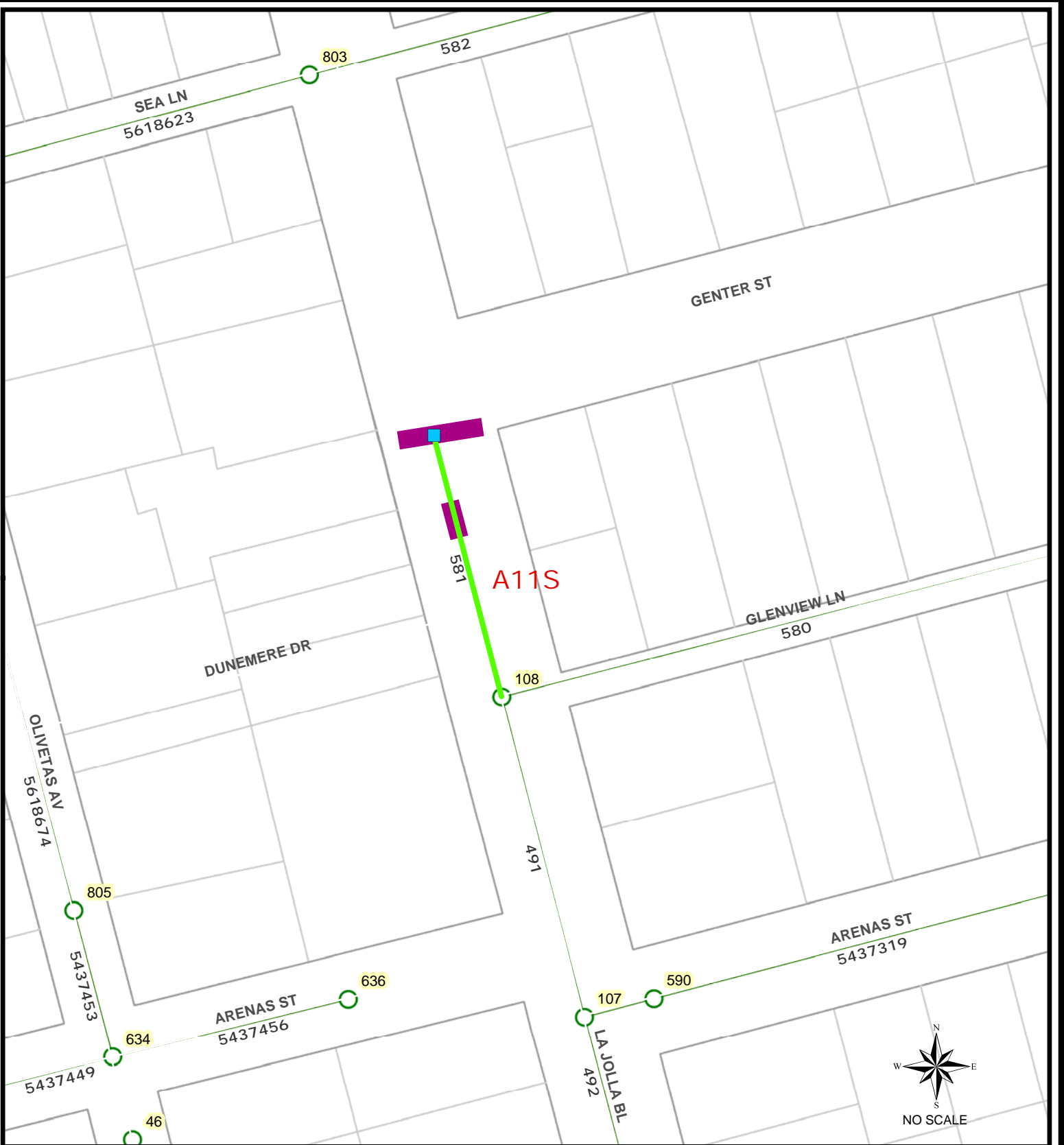
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SENIOR ENGINEER
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SEWER REHAB PROJECT Y-1 SLURRY SEAL

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

143 Manhole ID
754 Facility Sequence Number

WBS: B-13094

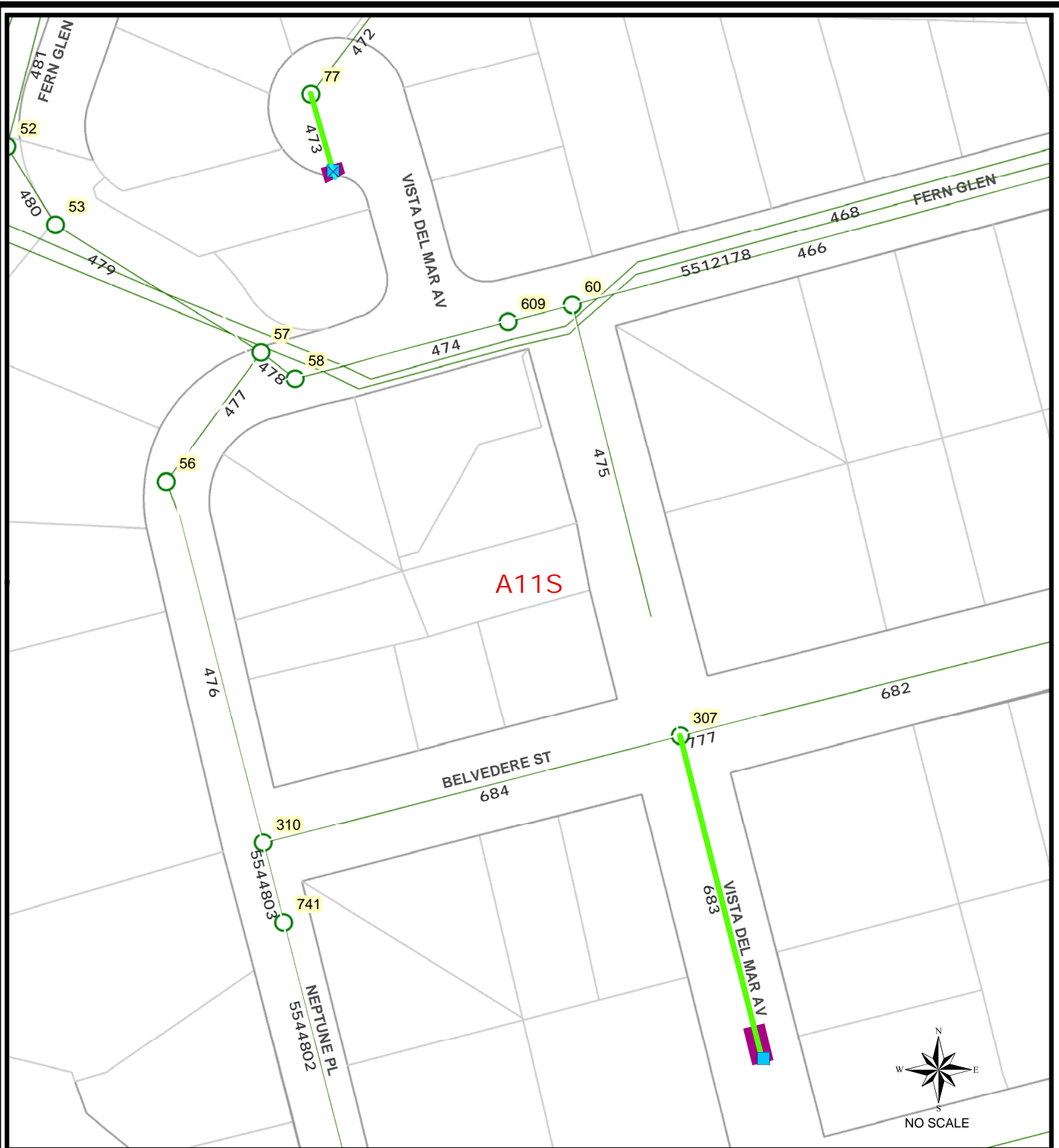
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SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

SEWER REHAB PROJECT Y-1
SLURRY SEAL

— Pipeline Rehab

143 Manhole ID
 754 Facility Sequence Number

WBS: B-13094

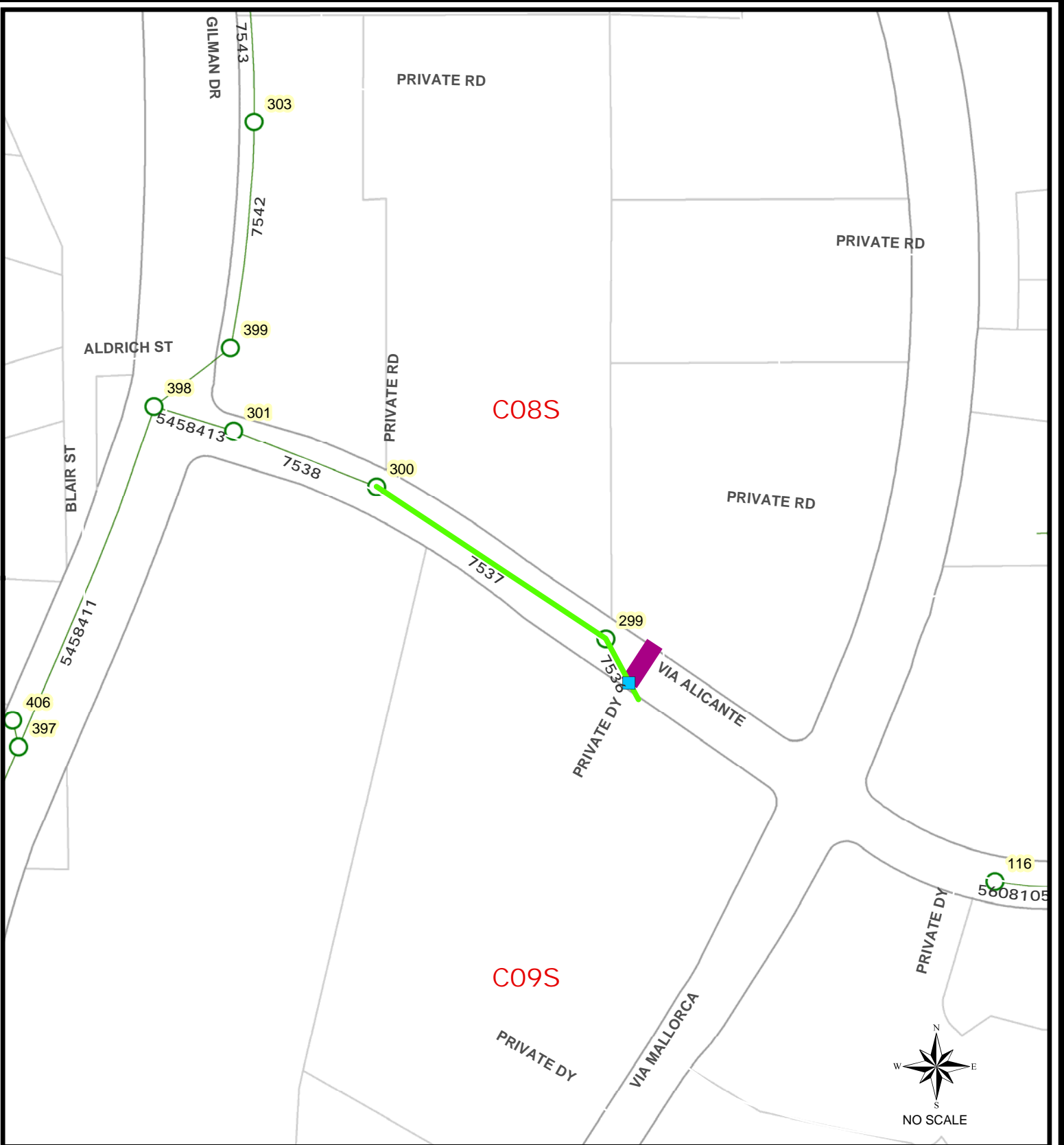
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WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

Legend

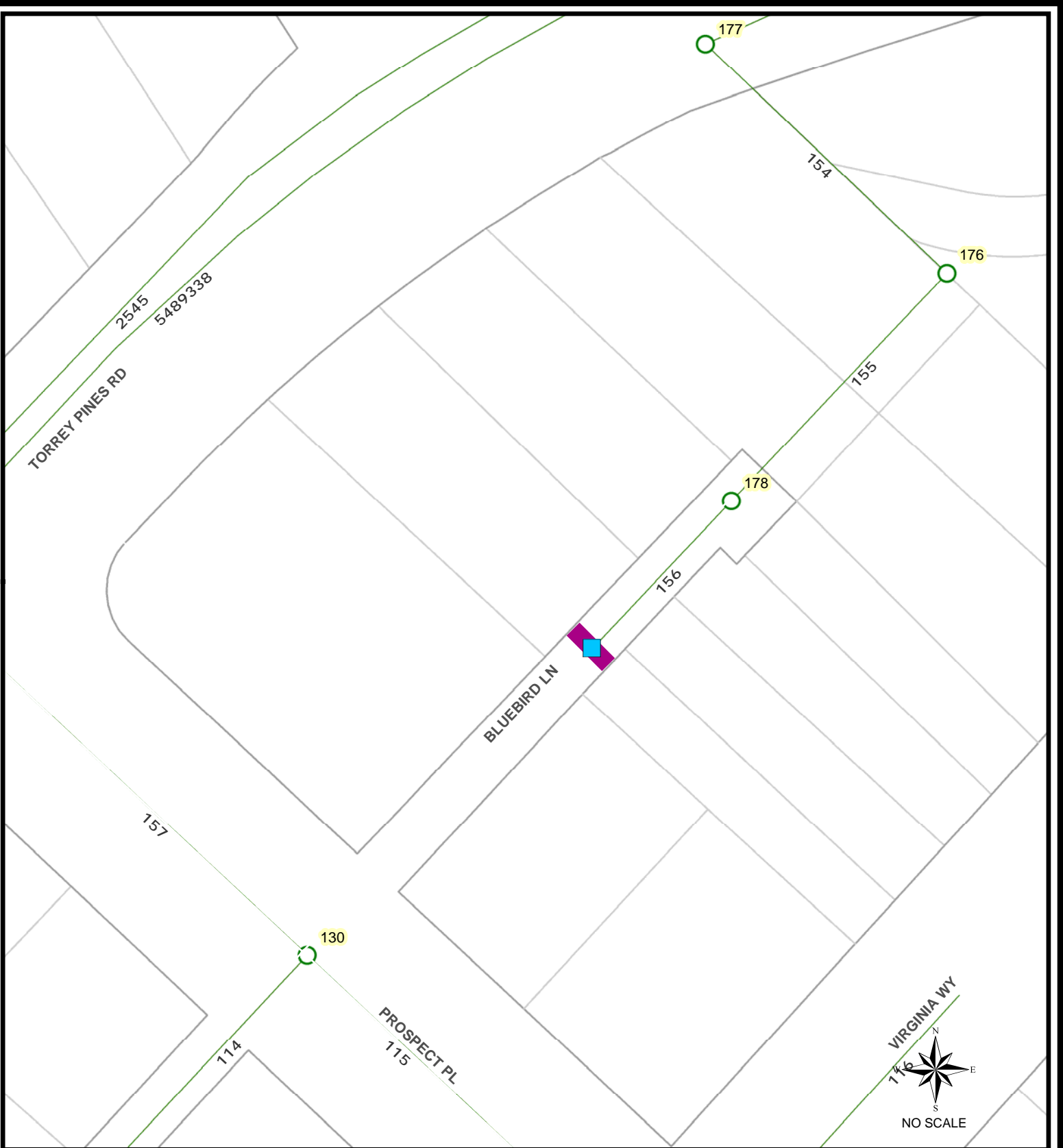
- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

SEWER REHAB PROJECT Y-1
SLURRY SEAL

143 Manhole ID
754 Facility Sequence Number

WBS: B-13094
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SENIOR ENGINEER
WENDY GAMBOA
 ASSOCIATE ENGINEER
JIM HAGGOUY
 PROJECT ENGINEER
FRANCIS MARQUEZ

Legend

- Cleanouts 101712
- Manhole Replacement
- Pipeline_Rehab_Y-1_10212
- Slurry Seal

SEWER REHAB PROJECT Y-1
SLURRY SEAL

143 Manhole ID
754 Facility Sequence Number

WBS: B-13094

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APPENDIX K
CURB RAMP PLAN AND NOTES

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PIPELINE REHABILITATION Y-1

SENIOR ENGINEER
WENDY GAMBOA
619-235-1971

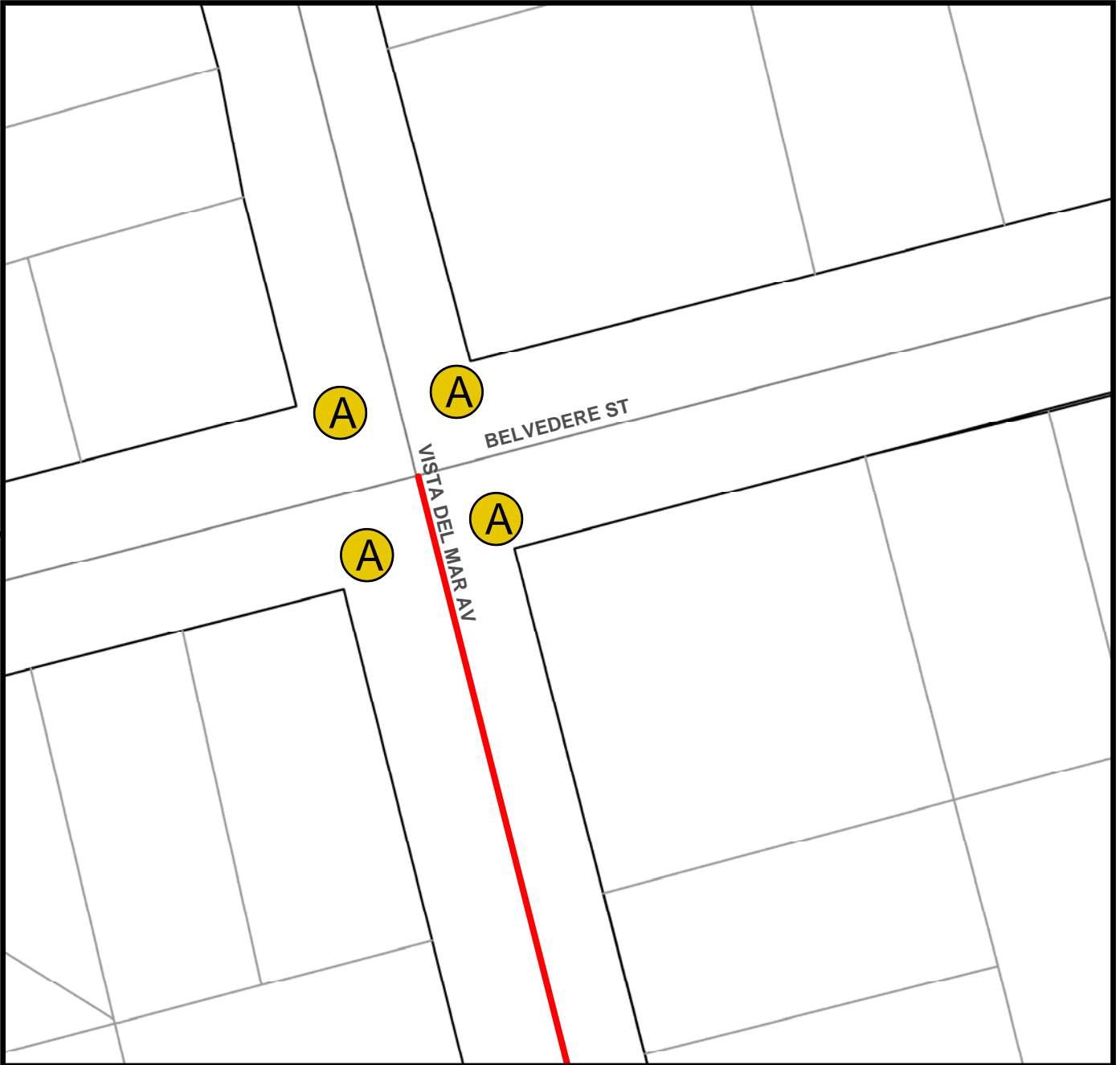
PROJECT MANAGER
JIM HAGGOUY
619-533-4657

PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966

CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207






Division Name - If Needed



CURB RAMP SHEET 1

Legend

-  MH Replacement
-  Pipeline Rehab Y-1

 New Curb Ramp



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B13094

Date: April 23, 2013

Appendix K - Curb Ramp Plan and Notes



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PIPELINE REHABILITATION Y-1

SENIOR ENGINEER
WENDY GAMBOA
619-235-1971

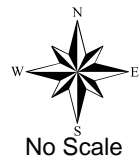
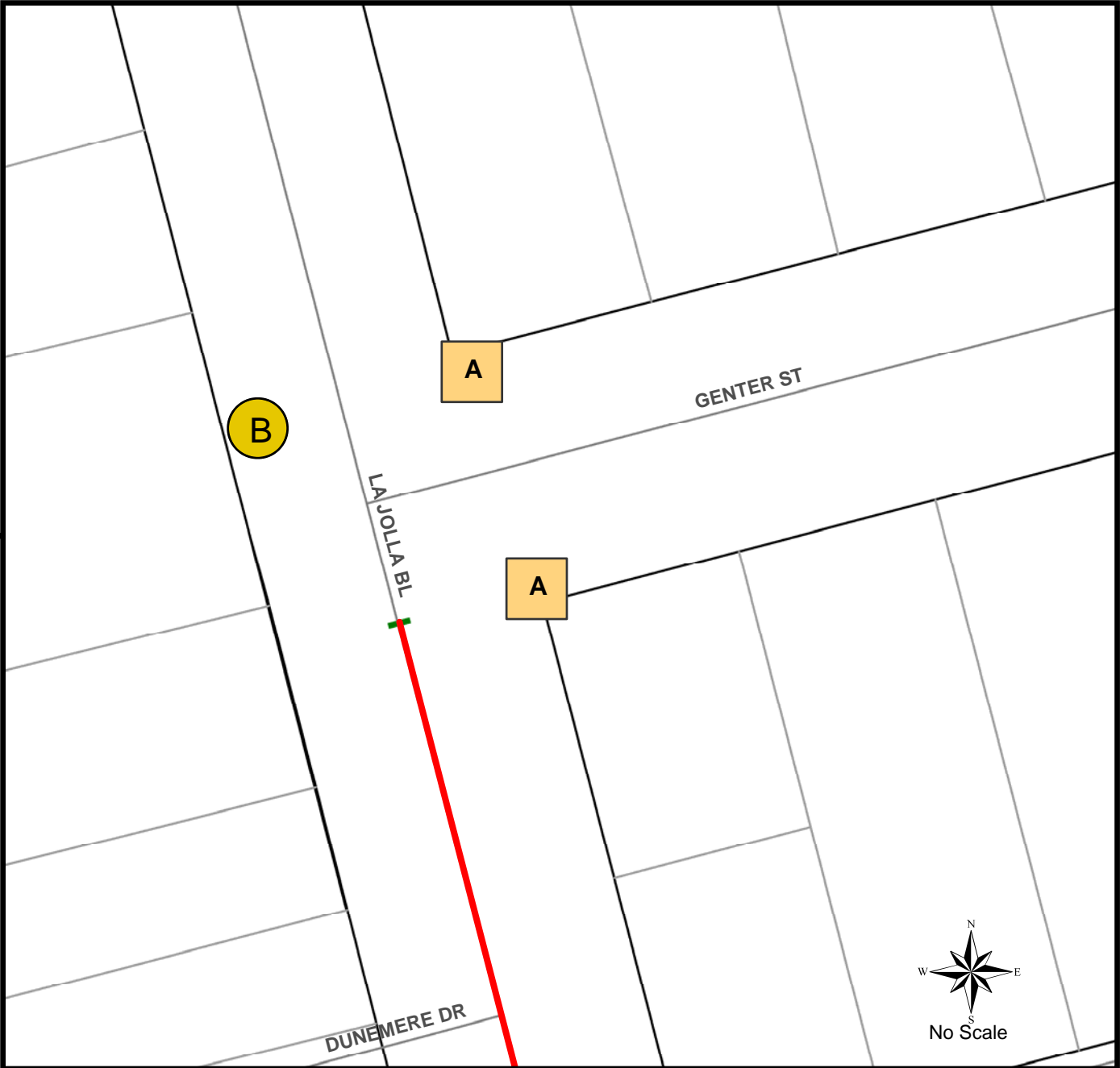
PROJECT MANAGER
JIM HAGGOUY
619-533-4657

PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966



CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207





Division Name - If Needed



Legend

-  MH Replacement
-  Pipeline Rehab Y-1

CURB RAMP SHEET 2

-  New Curb Ramp
-  Curb Ramp Replacement

COMMUNITY NAME:

LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B13094

Date: April 23, 2013

Appendix K - Curb Ramp Plan and Notes



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PIPELINE REHABILITATION Y-1

SENIOR ENGINEER
WENDY GAMBOA
619-235-1971

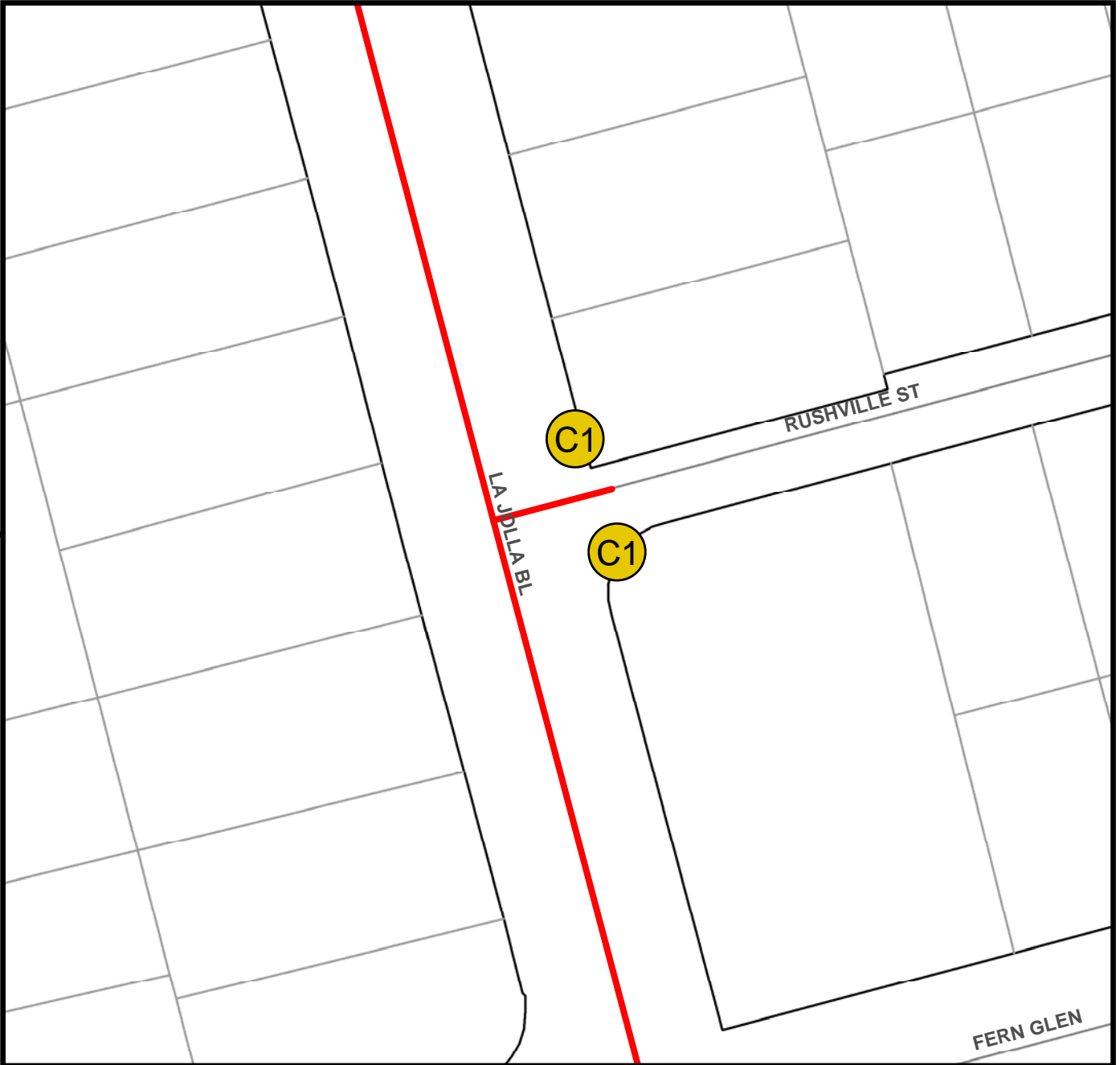
PROJECT MANAGER
JIM HAGGOUY
619-533-4657

PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966

CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207





Division Name - If Needed



CURB RAMP SHEET 3

Legend

-  MH Replacement
-  Pipeline Rehab Y-1

 New Curb Ramp



COMMUNITY NAME:

LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B13094

Date: April 23, 2013

Appendix K - Curb Ramp Plan and Notes



PIPELINE REHABILITATION Y-1

SENIOR ENGINEER
WENDY GAMBOA
619-235-1971

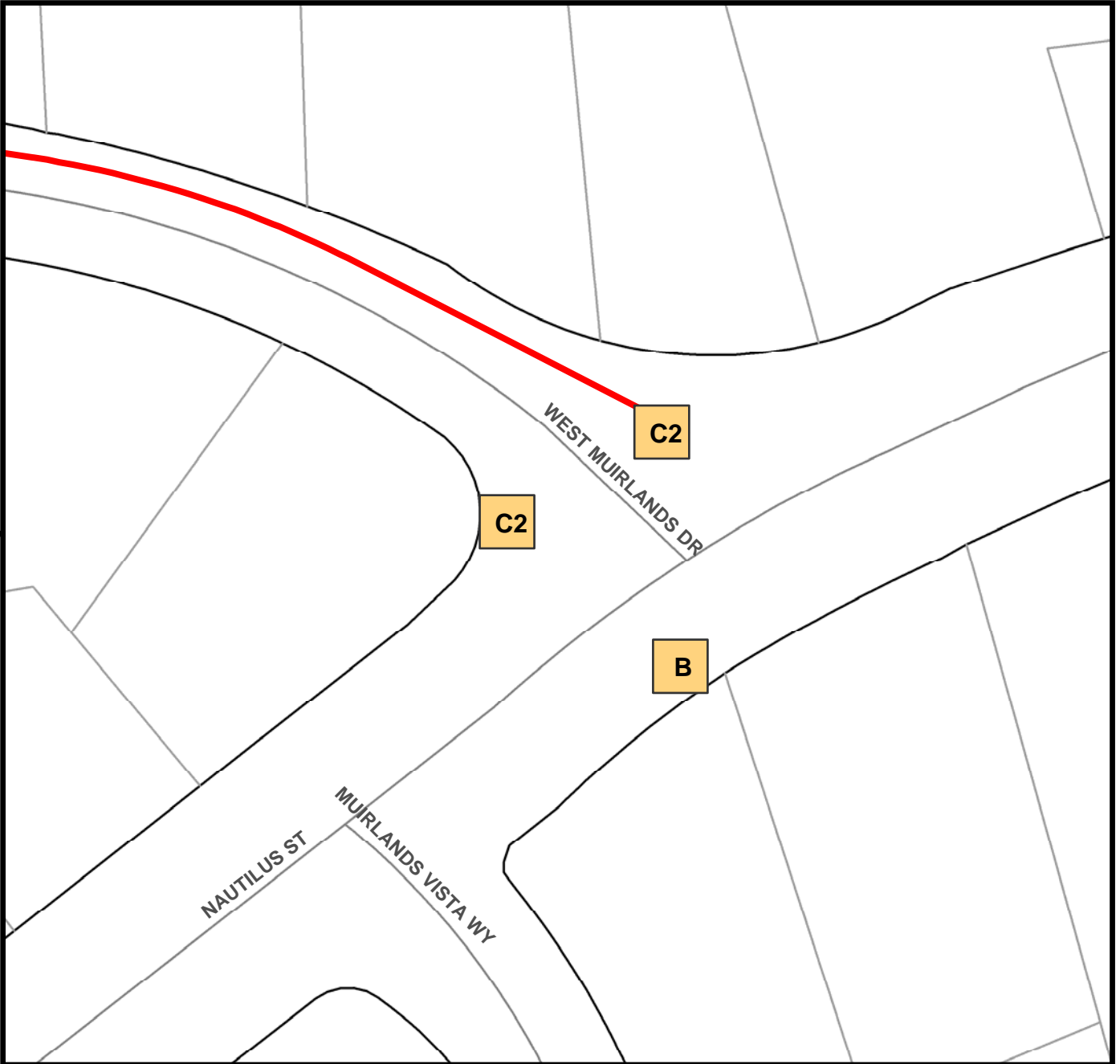
PROJECT MANAGER
JIM HAGGOUY
619-533-4657

PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966

CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207



Division Name - If Needed



Legend

- MH Replacement
- Pipeline Rehab Y-1

CURB RAMP SHEET 4

- C2 Curb Ramp Replacement



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B13094

Date: April 23, 2013

Appendix K - Curb Ramp Plan and Notes



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PIPELINE REHABILITATION Y-1

SENIOR ENGINEER
WENDY GAMBOA
619-235-1971

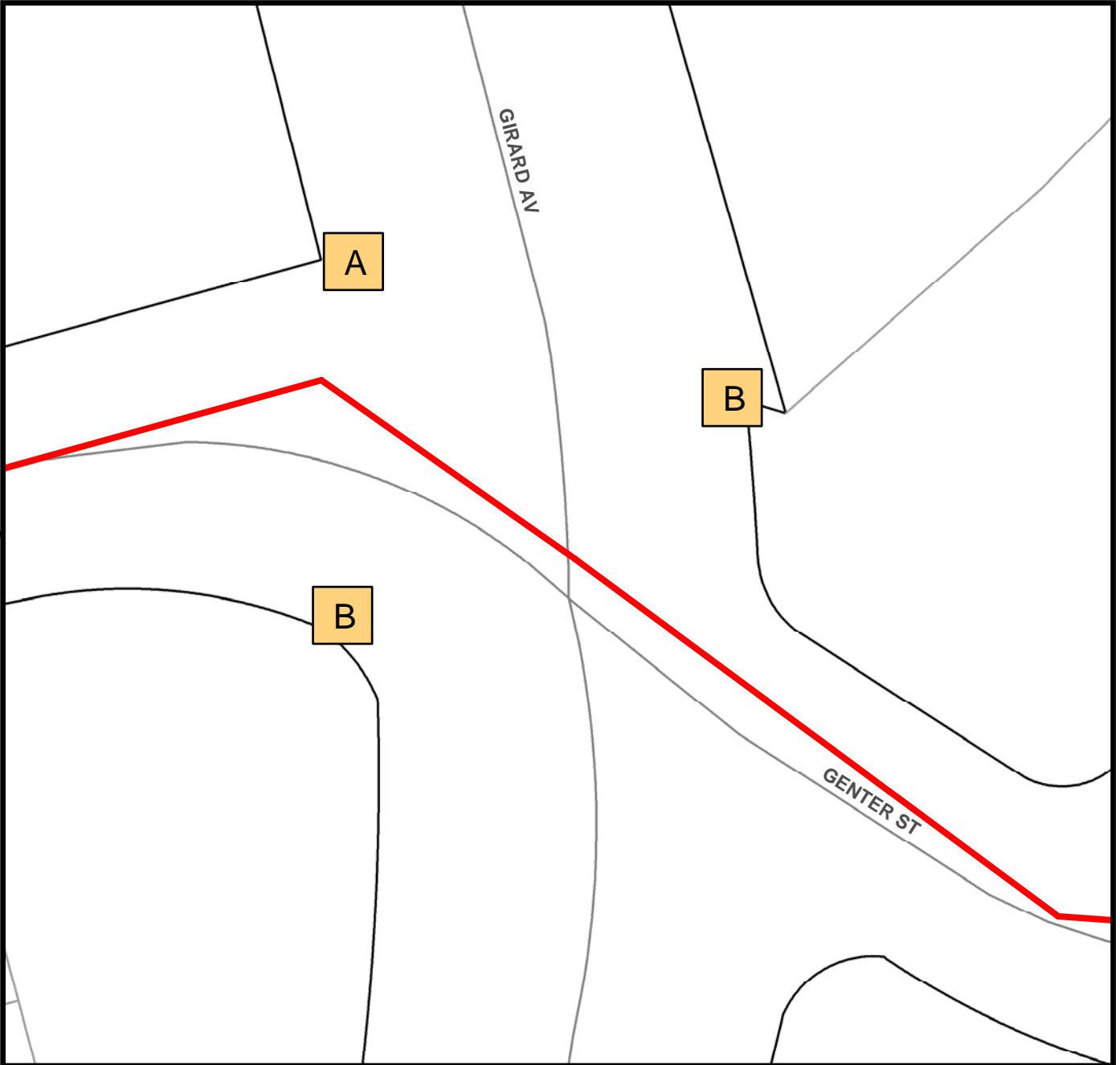
PROJECT MANAGER
JIM HAGGOUY
619-533-4657

PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966

CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207





Division Name - If Needed



CURB RAMP SHEET 5

Legend

-  MH Replacement
-  Pipeline Rehab Y-1

 Curb Ramp Replacement



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B13094

Date: April 23, 2013

Appendix K - Curb Ramp Plan and Notes



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PIPELINE REHABILITATION Y-1



SENIOR ENGINEER
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619-235-1971

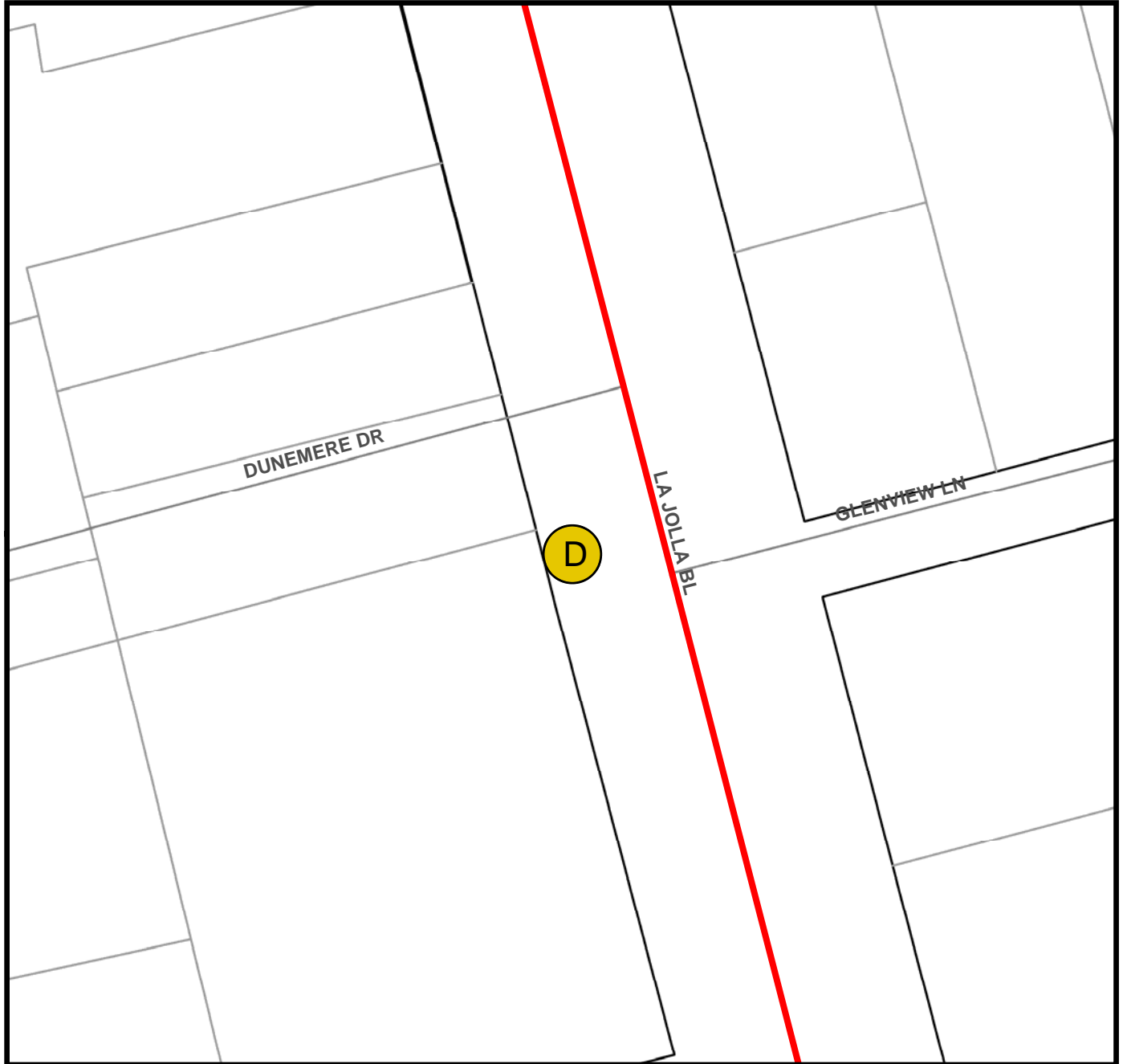
PROJECT MANAGER
JIM HAGGOUY
619-533-4657

PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966

CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207






Division Name - If Needed



Legend

CURB RAMP SHEET 6

-  MH Replacement
-  Pipeline Rehab Y-1

-  New Curb Ramp



COMMUNITY NAME:
LA JOLLA

COUNCIL DISTRICT: 1

SAP ID: B13094

Date: April 23, 2013

Appendix K - Curb Ramp Plan and Notes



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PIPELINE REHABILITATION Y-1

SENIOR ENGINEER
WENDY GAMBOA
619-235-1971

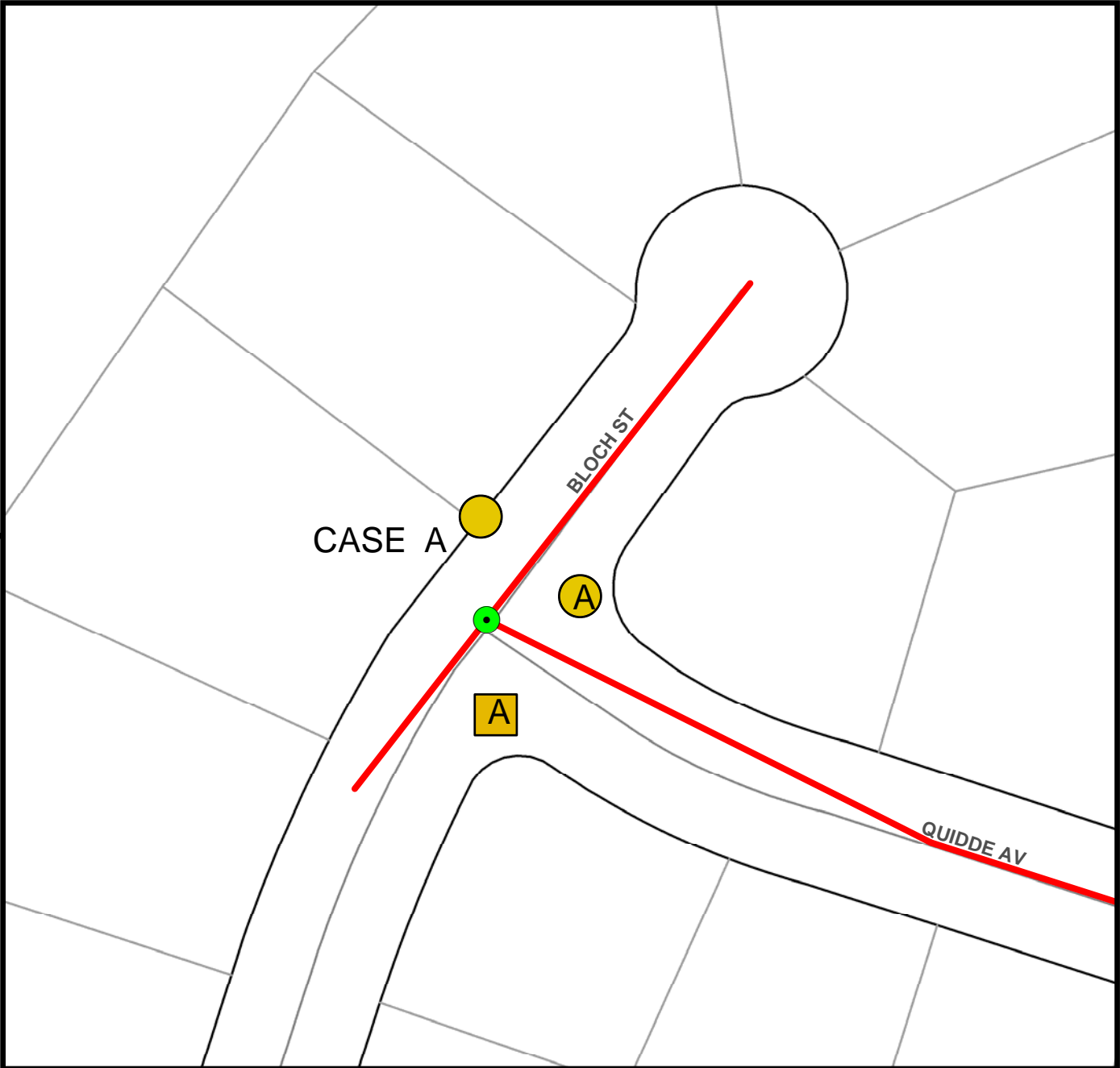
PROJECT MANAGER
JIM HAGGOUY
619-533-4657

PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966

CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207



Division Name - If Needed



CURB RAMP SHEET 7

Legend

- MH Replacement
- Pipeline Rehab Y-1

- New Curb Ramp
- Curb Ramp Replacement



COMMUNITY NAME:
UNIVERSITY CITY

COUNCIL DISTRICT: 1

SAP ID: B13094

Date: April 11, 2013

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PIPELINE REHABILITATION Y-1



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619-235-1971

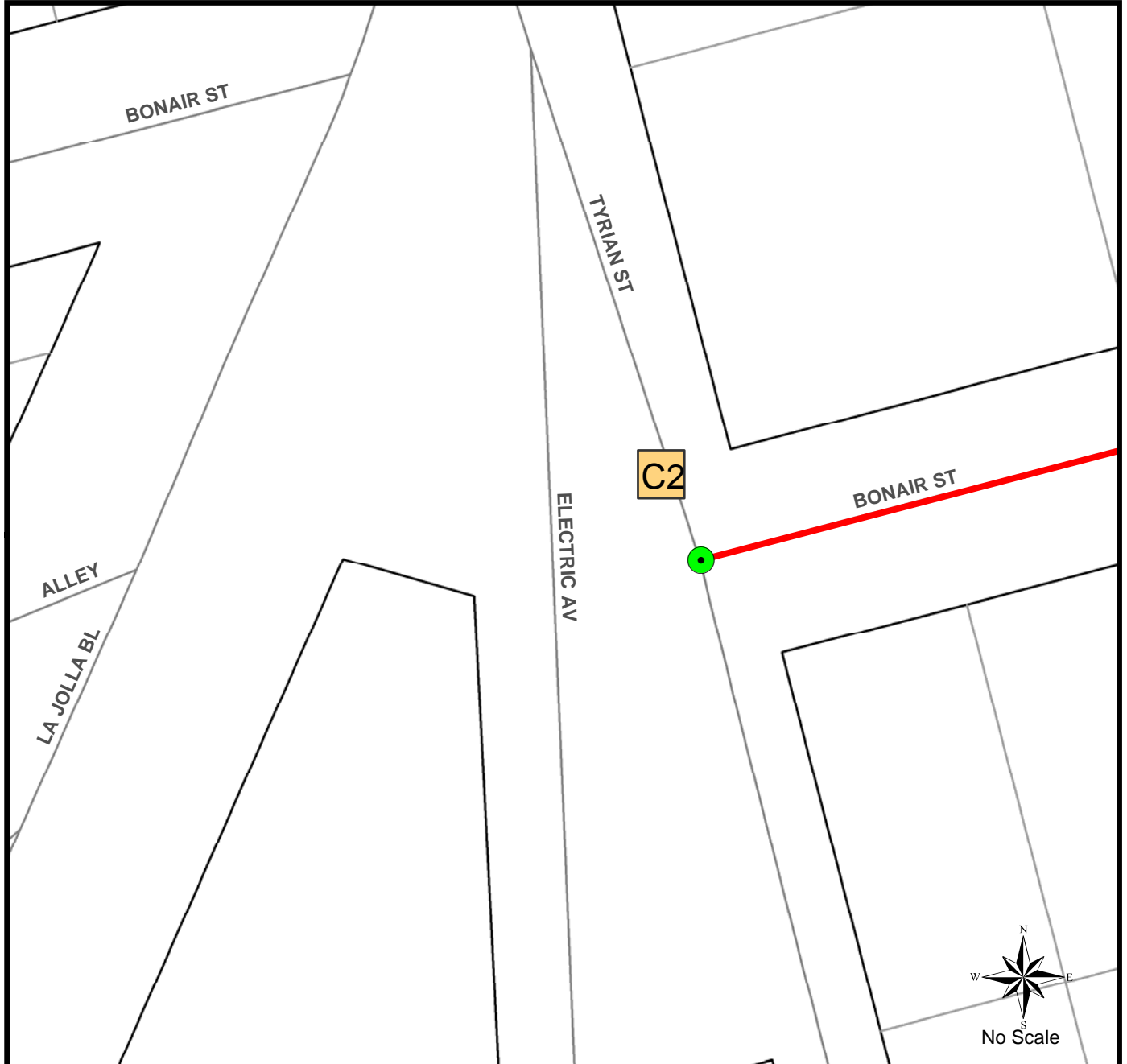
PROJECT MANAGER
JIM HAGGOUY
619-533-4657



PROJECT ENGINEER
FRANCIS MARQUEZ
619-235-1966

CONSTRUCTION PROJECT
INFORMATION LINE
619-533-4207

Division Name - If Needed



Legend

CURB RAMP SHEET 8

- MH Replacement
- Pipeline Rehab Y-1

Curb Ramp Replacement

COMMUNITY NAME:

COUNCIL DISTRICT: 1

SAP ID: B13094

LA JOLLA

Appendix K - Curb Ramp Plan and Notes



CURB RAMP NOTES TABLE									
CURB RAMP SHEET NO.	LOCATION	RAMP TYP	NEW	REPLACEMENT	HISTORIC STAMPS	TRUNCATED DOME MATERIAL		CONSTRAINTS	COMMENTS / MODIFICATIONS
						*STAINLESS STEEL	*OTHER		
1	NW	A	X				X		
	NE	A	X				X		
	SW	A	X				X		
	SE	A	X				X		
2	NW	B	X				X		
	NE	A		X			X		
	SE	A		X			X		
3	N	C1	X				X		
	S	C1	X				X		
4	NW	C2		X			X		
	NE	C2		X			X		
	S	B		X			X		
5	NW	A		X		X			
	NE	B		X		X			
	SW	B		X		X			
6	W	D	X				X		
7	NW	Case A	X				X		
	E	A	X				X		
	S	A		X			X		
8	N	C2		X		X			

- 1 - All detectable warning tiles (DWT) shall be 36" deep X full ramp opening wide per the City's Approved Material List (AML) only.
- 2- Protect and keep (or relocate) all historic stamps within corner sidewalks.
- 3 - Verify right of way limits prior to curb ramp installation.

APPENDIX L

**PERMIT TO DO WORK ON PRIVATE PROPERTY
AND LIST OF PROPERTIES**

PERMIT TO DO WORK ON PRIVATE PROPERTY

[Insert Name] (“Property Manager / Owner”) is/are the owner(s) of that certain real property (APN# *[Insert APN#]*, the “Property”) located at *[Insert Project Address]*.

The City of San Diego, a California municipal corporation (“City”) has requested Property Owner’s permission to enter upon the Property to perform work associated with City’s *Pipeline Rehabilitation Y-1.*”

Property Owner hereby grants to City, its agents, employees and contractor’s permission to enter upon the Property for the purpose of accessing, inspecting, maintaining, rehabilitating, replacing sewer facilities and/or installing “clean-outs” located within the Property.

This Permit shall expire upon completion, as determined by the San Diego City Engineer, of the work to be performed pursuant to this Permit.

City shall require each contractor accessing the Property to carry liability insurance as required in “Standard Specifications for Public Works Construction, 2003 Edition,” as amended by “City of San Diego Supplemental Amendments.”

For valuable consideration, the sufficiency and receipt of which is hereby acknowledged, the parties agree to the terms of this Permit, as evidenced by their signatures below:

PROPERTY MANAGER / OWNER(S):

Date: _____ Signature(s): _____

Phone #: _____ Print Name(s): _____

THE CITY OF SAN DIEGO, a California municipal corporation

BY: _____

Name: _____

Date: _____

Title: _____

APPROVED AS TO FORM AND LEGALITY:

JAN I. GOLDSMITH, City Attorney

BY: _____

Name: _____

Date: _____

Title: _____

List of Properties

APN	Owner	Address		
		Street Name	City	Zip
3481000203	JACK T MCCORD	5747 Erlanger St	San Diego, CA	92122
3520130700	NASSE NEMAT	7872 Lookout Dr	La Jolla, CA	92037
3526200900	ROY & JUDITH LESSAR	6833 Avenida Andorra	La Jolla, CA	92037
3527400700	SARYAS & LILIA JAFF	2335 King Athur Ct	La Jolla, CA	92037
3522420400	WILLIAM RUSSEL	7201 Country Club Dr	La Jolla, CA	92037
3522422100	JAMIE LEE	7195 Country Club Dr	La Jolla, CA	92037
3522421300	JESTE FAMILY TRUST	7258 Carrizo Dr.	La Jolla, CA	92037
3522421200	HAWLEY FAMILY TRUST	7252 Carrizo Dr	La Jolla, CA	92037
3522004200	HOLLAND M SMITH	7136 Fairway Rd	La Jolla, CA	92037
3522430100	ELIAS & CATHERINE LAZARIDES	7260 Romero Dr	La Jolla, CA	92037
3522700200	ERIC ORLOFF	1602 Mimulus Way	La Jolla, CA	92037
3522701000	HOFFMAN FAMILY TRUST	1601 Mim,ulus Way	La Jolla, CA	92037
3522700100	SANFORD FAMILY TRUST	7202 Country Club Dr	La Jolla, CA	92037
3522900100	KIAN & ROYA SAMIMI	7050 Country Club Dr	La Jolla, CA	92037
3522900200	SCARAMELLA FAMILY TRUST	7000 Country Club Dr.	La Jolla, CA	92037
3522800400	DAVIS COPLEY	7001 Country Club Dr	La Jolla, CA	92037
3522800600	FREUNDT FAMILY TRUST	6919 Country Club Dr.	La Jolla, CA	92037
3506410700	PATRICK A DEVITT	7525 Miramar Ave	La Jolla, CA	92037
3512102900	STIEL FAMILY REVOCABLE LIVING	7125 Vista Del Mar Ave	La Jolla, CA	92037
3512103000	DEAN & JEAN FOSTER	7135 Vista Del Mar Ave	La Jolla, CA	92037
3511320400	ALAN RITCHIE	305 Vista De La Playa	La Jolla, CA	92037
3512103500	STEPEHEN & MAZINE RUTHERFORD	7080 Neptune Pl	La Jolla, CA	92037
3513833500	MATHEW & NANCY BROWAR	363 Playa Del Sur	La Jolla, CA	92037
3515100500	MATTHEW PETERSON	6596 Avenida Wilfredo	La Jolla, CA	92037
3431401200	Playmor La Jolla Homeowners Assn C/O William Walters Co	4300 Eastgate Mall	San Diego, CA	92121
	La Jolla Soledad West Inc. C/O Walter Management	1843 - 1891 Caminito Marzella	La Jolla, CA	92037
		2098 - 2094 Caminito Capa	La Jolla, CA	92037
		7201 - 7229 Caminito Valverde	La Jolla, CA	92037

City of San Diego

CITY CONTACT: Clementina Giordano, Contract Specialist, Email: Cgiordano@sanidiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633

ADDENDUM "A"

FOR



PIPELINE REHABILITATION Y-1

BID NO.:	K-13-1098-DBB-3
SAP NO. (WBS/IO/CC):	B-13094
CLIENT DEPARTMENT:	2011
COUNCIL DISTRICT:	1
PROJECT TYPE:	JA

BID DUE DATE:

**2:00 PM
JULY 10, 2013
CITY OF SAN DIEGO
PUBLIC WORKS DEPARTMENT
1010 SECOND AVENUE, SUITE 1400, MS 614C
SAN DIEGO, CA 92101**

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 Contract Documents, ADD Form AA60, LIST OF WORK MADE AVAILABLE, page 3 of 3 of this Addendum.

Tony Heinrichs, Director
Public Works Department

Dated: *June 7, 2013*
San Diego, California

TH/BD/egz

City of San Diego

CONTRACTOR'S NAME: Southwest Pipeline & Trenchless Corp
 ADDRESS: 22118 S. Vermont Avenue Torrance, CA 90502
 TELEPHONE NO.: 310.329.8717 FAX NO.: 310.329.0981
 CITY CONTACT: Clementina Giordano, Contract Specialist, Email: Cgiordano@san-diego.gov
 Phone No. (619) 533-3481, Fax No. (619) 533-3633
 F.Marquez/BD/egz

CONTRACT DOCUMENTS FOR



PIPELINE REHABILITATION Y-1

VOLUME 2 OF 2

BID NO.: K-13-1098-DBB-3
 SAP NO. (WBS/IO/CC): B-13094
 CLIENT DEPARTMENT: 2011
 COUNCIL DISTRICT: 1
 PROJECT TYPE: JA

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.

1. Bid/Proposal.....	3
2. Bid Bond	7
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106	8
4. Contractors Certification of Pending Actions.....	9
5. Equal Benefits Ordinance Certification of Compliance.....	10
6. Proposal (Bid).....	11
7. Form AA35 - List of Subcontractors	15
8. Form AA40 - Named Equipment/Material Supplier List	16

BIDDING DOCUMENTS

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) _____

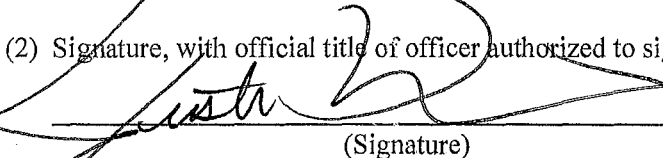
(5) City and State _____ Zip Code _____

(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 Ave.

(5) City and State Torrance, California Zip Code 90502

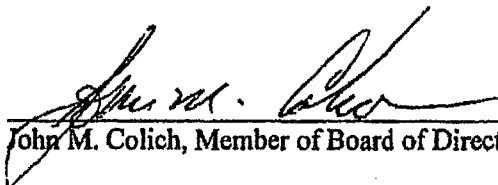
(6) Telephone No. 310.329.8717 Facsimile No. 310.329.0981

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

BIDDING DOCUMENTS

THIS PROPOSAL MUST BE NOTARIZED BELOW:

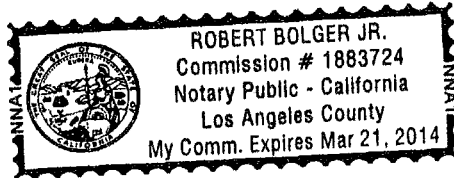
I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature [Handwritten Signature] Title President

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 10th DAY OF July, 2013.

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

[Handwritten Signature]
(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 Y-1 Project No. K-13-1098-DBB-3

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

SIGNED AND SEALED, this 12th day of June, 2013

Southwest Pipeline and Trenchless Corp. (SEAL)

(Principal)

By:

(Signature)

Liberty Mutual Insurance Company (SEAL)

(Surety)

By:

Noemi Quiroz

(Signature)



(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

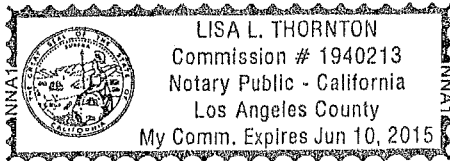
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California)
) ss
County of Los Angeles)

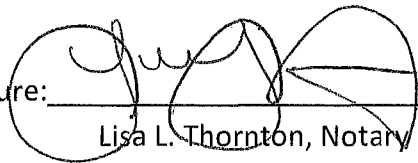
On JUN 12 2013, before me, Lisa L. Thornton, Notary Public, personally appeared Noemi Quiroz, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their 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: Bid Bond

Bond Amount: See Bond Form

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 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 ss
COUNTY OF KING

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 12th day of June, 2013



By: David M. Carey

BIDDING DOCUMENTS

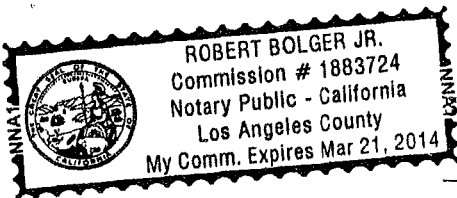
**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND
SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND
PUBLIC CONTRACT CODE 7106**

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 10th day of July, 2013


Notary Public

(SEAL)

BIDDING DOCUMENTS

CONTRACTORS CERTIFICATION OF PENDING ACTIONS

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

CHECK ONE BOX ONLY.

- 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.

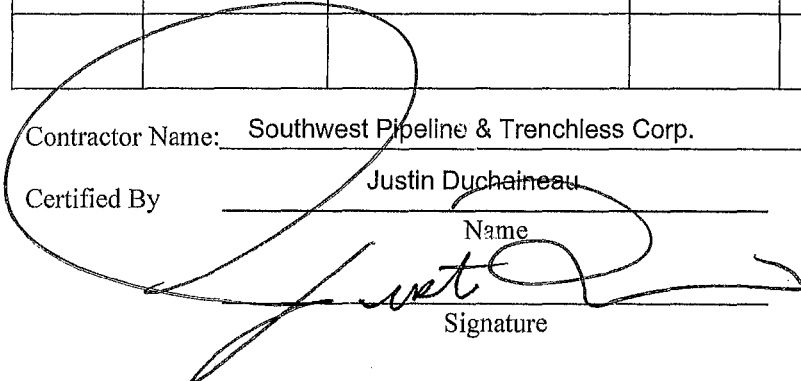
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of 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 7-10-2013

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:	J. 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 Y-1	Start Date:	
Contract Number (if no number, state location):	K-13-1098-DBB-3	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.

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

Name/Title of Signatory

Signature

FOR OFFICIAL CITY USE ONLY

Receipt Date:	EBO Analyst:	<input type="checkbox"/> Approved	<input type="checkbox"/> Not Approved – Reason:
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rev 02/15/2011

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **Pipeline Rehabilitation Y-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
1.	1	LS	524126	2-4.1	Bonds (Payment and Performance)	 	\$ /6,500. ⁰⁰
2.	1	EA	541214	3-3.2.2.1	Certified Payroll	\$ 1. ⁰⁰	\$ 1. ⁰⁰
3.	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions	 	\$ 1,000. ⁰⁰
4.	1	LS	541330	7-10.2.6	Traffic Control Design	 	\$ 1,000. ⁰⁰
5.	1	LS	237310	7-10.2.6	Traffic Control	 	\$ 2,500. ⁰⁰
6.	1	LS	237110	9-3.4.1	Mobilization	 	\$ 2,000. ⁰⁰
7.	1	AL		9-3.5	Field Orders - Type II Allowance	 	\$150,000. ⁰⁰
8.	38	TON	237310	302-3.4	Asphalt Pavement Repair	\$ 300. ⁰⁰	\$ 11,400. ⁰⁰
9.	32,475	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Striping	\$.75	\$ 24,356.25
10.	2,500	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$ 3.75	\$ 9,375. ⁰⁰
11.	384	SF	237310	302-6.8	Concrete Pavement	\$ 5.60	\$ 2,150.40
12.	500	LF	237310	303-5.9	Additional Curb and Gutter	\$ 23. ⁰⁰	\$ 11,500. ⁰⁰
13.	300	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$ 4.75	\$ 1,425. ⁰⁰
14.	8	EA	237310	303-5.10.2	Curb Ramp Type A with Detectable Warning Tiles	\$ 1,800. ⁰⁰	\$ 14,400. ⁰⁰
15.	1	EA	237310	303-5.10.2	Curb Ramp Type A with Stainless Steel Detectable Warning Tiles	\$ 2,025. ⁰⁰	\$ 2,025. ⁰⁰
16.	2	EA	237310	303-5.10.2	Curb Ramp Type B with Detectable Warning Tiles	\$ 1,800. ⁰⁰	\$ 3,600. ⁰⁰
17.	2	EA	237310	303-5.10.2	Curb Ramp Type B with Stainless Steel Detectable Warning Tiles	\$ 2,025. ⁰⁰	\$ 4,050. ⁰⁰
18.	2	EA	237310	303-5.10.2	Curb Ramp Type C1 with Detectable Warning Tiles	\$ 1,900. ⁰⁰	\$ 3,800. ⁰⁰
19.	2	EA	237310	303-5.10.2	Curb Ramp Type C2 with Detectable Warning Tiles	\$ 1,900. ⁰⁰	\$ 3,800. ⁰⁰
20.	1	EA	237310	303-5.10.2	Curb Ramp Type C2 with Stainless Steel Detectable Warning Tiles	\$ 2,025. ⁰⁰	\$ 2,025. ⁰⁰

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
21.	1	EA	237310	303-5.10.2	Curb Ramp Type D with Detectable Warning Tiles	\$1,700. ⁰⁰	\$1,700. ⁰⁰
22.	1	EA	237310	303-5.10.2	Curb Ramp Case A with Detectable Warning Tiles	\$1,600. ⁰⁰	\$1,600. ⁰⁰
23.	1	LS	237110	306-1.1.6	Trench Shoring	 	\$500. ⁰⁰
24.	60	CY	237110	306-1.2.1.1	Additional Bedding	\$70. ⁰⁰	\$4,200. ⁰⁰
25.	40	TON	237310	306-1.5.1	Temporary Resurfacing	\$100. ⁰⁰	\$4,000. ⁰⁰
26.	127	TON	237110	306-1.6	Imported Backfill	\$30. ⁰⁰	\$3,810. ⁰⁰
27.	33	EA	237110	306-1.6	8-Inch Sewer Main Cleanout	\$2,700. ⁰⁰	\$89,100. ⁰⁰
28.	5	EA	237110	306-1.8.6	Manholes (3' x 4')	\$8,500. ⁰⁰	\$42,500. ⁰⁰
29.	41,846	LF	237110	306-9.7	Video inspecting pipelines for Acceptance	\$.40	\$16,738.40
30.	41,846	LF	237110	306-9.7	Cleaning and video inspecting pipelines	\$.65	\$27,199.90
31.	696	EA	237110	306-9.7	Video inspecting Laterals for Acceptance	\$ 1. ⁰⁰	\$696. ⁰⁰
32.	696	EA	237110	500-1.1.9	Lateral Launch Video	\$ 68. ⁰⁰	\$47,328. ⁰⁰
33.	41,272	LF	237110	500-1.1.9	Rehabilitate 8-Inch Sewer Main	\$18.60	\$767,659.20
34.	574	LF	237110	500-1.1.9	Rehabilitate 10-Inch Sewer Main	\$23. ⁰⁰	\$13,202. ⁰⁰
35.	12	EA	237110	500-1.2.7	Point Repair for Existing 8-Inch Sewer Main	\$2,600. ⁰⁰	\$31,200. ⁰⁰
36.	20	LF	237110	500-1.2.7	Additional Point Repair for Existing 8-Inch Sewer Main	\$250. ⁰⁰	\$5,000. ⁰⁰
37.	696	EA	237110	500-1.6.6	Service Lateral Connection	\$770. ⁰⁰	\$535,920. ⁰⁰
38.	679	EA	237110	500-1.6.6	4-Inch Service Lateral Lining	\$1,520. ⁰⁰	\$1,032,080. ⁰⁰
39.	12	EA	237110	500-1.6.6	6-Inch Service Lateral Lining	\$2,050. ⁰⁰	\$24,600. ⁰⁰
40.	5	EA	237110	500-1.6.6	8-Inch Service Lateral Lining	\$2,475. ⁰⁰	\$12,375. ⁰⁰
41.	20	EA	237110	500-1.6.2.6	Lateral Point Repair	\$2,100. ⁰⁰	\$42,000. ⁰⁰
42.	44	EA	237110	500-2.10.2	Rehabilitate Existing Manhole	\$1,325. ⁰⁰	\$58,300. ⁰⁰
43.	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	 	\$500. ⁰⁰
44.	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	 	\$500. ⁰⁰
45.	1	LS	237110	704-4	Sewage Bypass and Pumping Plan (Diversion Plan)	 	\$1,500. ⁰⁰
ESTIMATED TOTAL BASE BID:							\$3,031,116.15

BIDDING DOCUMENTS

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

Three Million Thirty One Thousand One Hundred Sixteen Dollars and Fifteen 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

John Colich

Janine Colich

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.

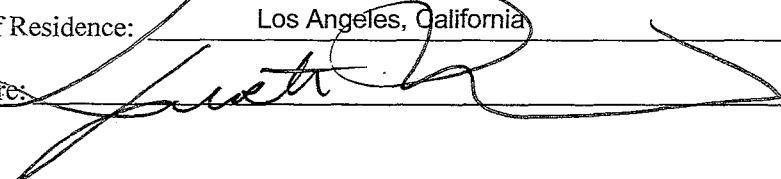
Bidder: Southwest Pipeline & Trenchless Corp.

Title: President

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

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

Place of Residence: Los Angeles, California

Signature: 

BIDDING DOCUMENTS

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 ^①	WHERE CERTIFIED ^②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <i>Arthur Ortiz</i> Address: <i>PO Box 121177</i> City: <i>Chula Vista</i> State: <i>CA</i> Zip: <i>91912</i> Phone: <i>619-941-1030</i>	<i>constructor</i>	<i>concrete work / curb ramps</i>	<i>\$51,575.40</i>	<i>SLBE</i>	<i>City of San Diego</i>	
Name: <i>Sealright Paving</i> Address: <i>PO Box 2753</i> City: <i>Spring Valley</i> State: <i>CA</i> Zip: <i>91979</i> Phone: <i>619-465-7411</i>	<i>constructor</i>	<i>Asphalt Repair</i>	<i>\$20,524.84</i>	<i>SLBE</i>	<i>City of San Diego</i>	
Name: <i>Terra West</i> Address: <i>1061 Tierra Del Rey #204</i> City: <i>Chula Vista</i> State: <i>CA</i> Zip: <i>91910</i> Phone: <i>619-591-1007</i>	<i>Designer</i>	<i>WPCP</i>	<i>\$495.00</i>	<i>SLBE</i>	<i>City of San Diego</i>	

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.

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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, OBE, 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>13862 Lindamere Dr.</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92128</u> Phone: <u>909-908-7300</u>	constructor	Lateral Rehab/ CCTV	\$568,920.00	SLBE	City of San Diego	
Name: <u>Piperin</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>	constructor	open cut/ Clean-outs/ Point Repairs	\$728,610.00	SLBE	City of San Diego	
Name: <u>Tunnelworks Services</u> Address: <u>13502-H Whittier #165</u> City: <u>Whittier</u> State: <u>CA</u> Zip: <u>90605</u> Phone: <u>562-201-4036</u>	constructor	Lateral Video locate	\$47,328.00	OBE		

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 ^①	WHERE CERTIFIED ^②	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>92659</u> Phone: <u>714-632-6690</u>	<u>Constructor</u>	<u>MH Rehab</u>	<u>SD</u> <u>\$77,000.00</u> <u>\$58,300.00</u>	<u>OBE</u>		
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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

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

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

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

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

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 ^①	WHERE CERTIFIED ^②
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

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

Form No. 2
Pipeline Rebid

MATERIAL SUPPLIER LIST

(Rev. July 2012)