

# City of San Diego

**CONTRACTOR'S NAME:** Southwest Pipeline and Trenchless Corp  
**ADDRESS:** 22118 S Vermont Ave, Torrance, CA 90502  
**TELEPHONE NO.:** (310) 329-8717 ext. 104 **FAX NO.:**  
**CITY CONTACT:** Celina Suarez, Contract Specialist, Email: [CSuarez@sandiego.gov](mailto:CSuarez@sandiego.gov)  
Phone No. (619) 533-6678,  
ELotfi/RPuertollano/MLWenceslao

## BIDDING DOCUMENTS



**FOR**

## PIPELINE REHABILITATION AQ-1

**BID NO.:** K-19-1812-DBB-3  
**SAP NO. (WBS/IO/CC):** B-17151  
**CLIENT DEPARTMENT:** 2000  
**COUNCIL DISTRICT:** 7  
**PROJECT TYPE:** JA

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

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

**BID DUE DATE:**

**2:00 PM**

**JUNE 11, 2019**

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

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

**ENGINEER OF WORK**

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

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

4/29/19  
Date

Seal:



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## NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **Pipeline Rehabilitation AQ-1**. For additional information refer to Attachment A.
2. **FULL AND OPEN COMPETITION:** This solicitation is subject to full and open competition and may be bid by Contractors on the City's approved Prequalified Contractors List. For information regarding the Contractors Prequalified list visit the City's web site: <http://www.sandiego.gov>.
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$5,300,000**.
4. **BID DUE DATE AND TIME ARE: JUNE 11, 2019 AT 2:00 P.M.**
5. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
6. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classification: **A or C-34**
7. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
  - 7.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1. SLBE participation	<b>6.1%</b>
2. ELBE participation	<b>9.2%</b>
3. Total mandatory participation	<b>15.3%</b>
  - 7.2. The Bid may be declared non-responsive if the Bidder fails to meet the following requirements:
    - 7.2.1. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
    - 7.2.2. Submit Good Faith Effort documentation, saved in searchable Portable Document Format (PDF) and stored on Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Days of the Bid opening if the overall mandatory participation percentage is not met.

**8. AWARD PROCESS:**

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

**9. SUBMISSION OF QUESTIONS:**

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

Public Works Contracts  
525 B Street, Suite 750 (7<sup>th</sup> Floor)  
San Diego, California, 92101  
Attention: Celina Suarez

OR:

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

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

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

## INSTRUCTIONS TO BIDDERS

### 1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award.
- 1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening.
- 1.3. Complete information and links to the on-line prequalification application are available at:  
  
<http://www.sandiego.gov/cip/bidopps/prequalification>
- 1.4. Due to the City's responsibility to protect the confidentiality of the contractors' information, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

### 2. ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS: Bids will be received in electronic format (eBids) EXCLUSIVELY at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.

- 2.1. **BIDDERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit and electronic bid.
- 2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
- 2.3. The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.

- 2.4. BIDS REMAIN SEALED UNTIL BID DEADLINE.** eBids are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the "Bid Due Date and Time" are not available for review by anyone other than the submitter who has until the "Bid Due Date and Time" to change, rescind or retrieve its proposal should it desire to do so.
- 2.5. BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME.** Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, EOCP compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.
- 2.6. RECAPITULATION OF THE WORK.** Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.
- 2.7. BIDS MAY BE WITHDRAWN** by the Bidder only up to the bid due date and time.
- 2.7.1. Important Note:** Submission of the electronic bid into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure their bids are received on time by the City's eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.
- 2.8. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE:** To request a copy of this solicitation in an alternative format, contact the Public Works Contract Specialist listed on the cover of this solicitation at least five (5) working days prior to the Bid/Proposal due date to ensure availability.

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

- 3.1.** The bidder, by submitting its electronic bid, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.
- 3.2.** By submitting an electronic bid, the bidder certifies that the bidder has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its bid proposal, the bidder acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.

- 3.3.** The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this bid are true and correct.
- 3.4.** The Bidder agrees to the construction of the project as described in Attachment A – Scope of Work for the City of San Diego, in accordance with the requirements set forth herein for the electronically submitted prices. The Bidder guarantees the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent.
- 4. BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
- 5. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**
- 5.1.** **Prior** to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City's web-based vendor registration and bid management system. For additional information go to:  
  
<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg>
- 5.2.** The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.
- 6. INSURANCE REQUIREMENTS:**
- 6.1.** 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.
- 6.2.** Refer to sections 5-4, "INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.



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

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") <a href="http://www.greenbookspecs.org/">http://www.greenbookspecs.org/</a>	2018	PWPI010119-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* <a href="https://www.sandiego.gov/publicworks/edocref/greenbook">https://www.sandiego.gov/publicworks/edocref/greenbook</a>	2018	PWPI010119-02
City of San Diego Standard Drawings* <a href="https://www.sandiego.gov/publicworks/edocref/standarddraw">https://www.sandiego.gov/publicworks/edocref/standarddraw</a>	2018	PWPI010119-03
Citywide Computer Aided Design and Drafting (CADD) Standards <a href="https://www.sandiego.gov/publicworks/edocref/drawings">https://www.sandiego.gov/publicworks/edocref/drawings</a>	2018	PWPI010119-04
California Department of Transportation (CALTRANS) Standard Specifications – <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2018	PWPI030119-05
CALTRANS Standard Plans <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 3 (CA MUTCD Rev 3) <a href="http://www.dot.ca.gov/trafficops/camutcd/">http://www.dot.ca.gov/trafficops/camutcd/</a>	2014	PWPI030119-07
<p><b>NOTE:</b> *Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a></p> <p>*Electronic updates to the Standard Drawings may also be found in the link above</p>		

8. **CITY'S RESPONSES AND ADDENDA:** The City, at its discretion, may respond to any or all questions submitted in writing via the City's eBidding web site in the **form of an addendum**. No other responses to questions, oral or written shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addenda are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda at the time of bid submission.
9. **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.

**10. CONTRACT PRICING:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.

**11. SUBCONTRACTOR INFORMATION:**

**11.1. LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall state the **DIR REGISTRATION NUMBER** for all subcontractors and shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - Section 3-2, "SELF-PERFORMANCE", which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

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

**11.2. LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY), DIR REGISTRATION NUMBER** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case,

100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.

- 11.3. LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES.** For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.
- 12. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-6, "Trade Names" in The WHITEBOOK and as amended in the SSP.
- 13. AWARD:**
- 13.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 13.2.** 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.
- 13.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.
- 14. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 3-2, "SELF-PERFORMANCE" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.
- 15. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracts.
- 16. ONLY ONE BID PER CONTRACTOR SHALL BE ACCEPTED:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.

- 17. SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, First floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms within these documents.
- 18. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY) FOR DESIGN-BID-BUILD CONTRACTS:**
- 18.1.** For bids \$250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.
- 18.2.** This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.
- 18.3.** The Bidder agrees that in the event of the Bidder's failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.
- 18.4.** At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City's eBidding system. Within twenty-four (24) hours after the bid due date and time, the first five (5) apparent low bidders must provide the City with the original bid security.
- 18.5.** Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original within twenty-four (24) hours may cause the bid to be rejected and deemed **non-responsive**.
- 19. AWARD OF CONTRACT OR REJECTION OF BIDS:**
- 19.1.** This contract may be awarded to the lowest responsible and reliable Bidder.
- 19.2.** Bidders shall complete ALL eBid forms as required by this solicitation. Incomplete eBids will not be accepted.

- 19.3. The City reserves the right to reject any or all Bids, to waive any informality or technicality in Bids received, and to waive any requirements of these specifications as to bidding procedure.
- 19.4. Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.
- 19.5. A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.
- 19.6. The City of San Diego will not discriminate in the award of contracts with regard to race, religion creed, color, national origin, ancestry, physical handicap, marital status, sex or age.
- 19.7. Each Bid package properly signed as required by these specifications shall constitute a firm offer which may be accepted by the City within the time specified herein.
- 19.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of the base bid and any proposed alternates or options as detailed herein.

**20. BID RESULTS:**

- 20.1. The availability of the bids on the City's eBidding system shall constitute the public announcement of the apparent low bidder. In the event that the apparent low bidder is subsequently deemed non-responsive or non-responsible, a notation of such will be made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.
- 20.2. To obtain the bid results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the bid name and number. The bid tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

**21. THE CONTRACT:**

- 21.1. 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.

- 21.2.** 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.
- 21.3.** 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.
- 21.4.** 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.
- 21.5.** The award of the Contract is contingent upon the satisfactory completion of the above-mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee and approval as to form by the City Attorney's Office. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
- 23. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 3-9, "TECHNICAL STUDIES AND SUBSURFACE DATA", and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 24. CITY STANDARD PROVISIONS:** This contract is subject to the following standard provisions. See The WHITEBOOK for details.

- 24.1. The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 24.2. The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 24.3. The City of San Diego Municipal Code §22.3004 for Contractor Standards.
- 24.4. The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 24.5. Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 24.6. The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 24.7. The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

**25. PRE-AWARD ACTIVITIES:**

- 25.1. The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified in the herein and in the Notice of Award. Failure to provide the information as specified may result in the Bid being rejected as **non-responsive**.
- 25.2. The decision that bid is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

Bond Number: 024240627

Premium: \$31,662.00

## PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

---

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

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  
**Four Million Two Hundred Nine Thousand Five Hundred Ten Dollars and Ten Cents**  
**(\$4,209,510.10)** for the faithful performance of the annexed contract, and in the sum of **Four Million**  
**Two Hundred Nine Thousand Five Hundred Ten Dollars and Ten Cents (\$4,209,510.10)** for the  
benefit of laborers and materialmen designated below.

#### **Conditions:**

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

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

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

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



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

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

Dated July 25, 2019

Approved as to Form

Southwest Pipeline and Trenchless Corp.

Principal

By 

Justin Duchaineau- President

Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By 

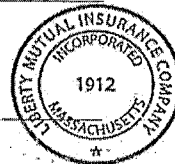
Deputy City Attorney

Liberty Mutual Insurance Company

Surety

By 

Noemi Quiroz, Attorney-in-fact



Approved:

By 

Stephen Samara  
Principal Contract Specialist  
Public Works Department

790 The City Drive South, Suite 200

Local Address of Surety

Orange, CA 92868

Local Address (City, State) of Surety

(714) 634-5720

Local Telephone No. of Surety

Premium \$ 31,662.00

Bond No. 024240627

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**Civil Code § 1189**

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

State of California )  
 ) ss  
County of Los Angeles )

On July 25, 2019, before me, Natalie K. Trofimoff, 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: *Natalie K. Trofimoff*  
Natalie K. Trofimoff, Notary Public

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



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

### POWER OF ATTORNEY

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

Principal Name: Southwest Pipeline and Trenchless Corp.

Obligee Name: The City of San Diego

Surety Bond Number: 024240627 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 12<sup>th</sup> day of December, 2018.



The Ohio Casualty Insurance Company  
Liberty Mutual Insurance Company  
West American Insurance Company  
By: David M. Carey  
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss  
COUNTY OF MONTGOMERY

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

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



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

By: Teresa Pastella  
Teresa Pastella, Notary Public

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

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

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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 25<sup>th</sup> day of July, 2019.



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

## ATTACHMENTS

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

## SCOPE OF WORK

1. **SCOPE OF WORK:** Rehabilitation of approximately 43,011 LF (8.15 miles) of existing 8-inch and 10 inches Vitrified Clay (VC) sewer mains. In addition, all existing sewer laterals will be rehabilitated from the property line to the sewer mains and assessed by CCTV. The project also includes point repair, manhole rehabilitation, manhole repair, manhole replacement, cleanout installation, curb ramp installation, cross Gutter, and street resurfacing. Scope includes preparation of D sized engineered traffic control plans by a registered engineer. All required approvals and associated permits for traffic control is the responsibility of the contractor. Additionally, Architects and Engineers Professional Insurance (Errors & Omissions) is required. See section 5-4.10.
  - 1.1. The Work shall be performed in accordance with:
    - 1.1.1. The Notice Inviting Bids and Appendix G, H, I, J, L & M, Site Maps Sheets 1 through 25, Curb Ramp Sheet 1 through 2 and Resurface Sheet, inclusive.
2. **LOCATION OF WORK:** The location of the Work is as follows:

See **Appendix E, Location Map.**
3. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **360 Working Days.**

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

## PHASED FUNDING PROVISIONS

### 1. PRE-AWARD

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

### 2. POST-AWARD

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



## PHASED FUNDING SCHEDULE AGREEMENT

BID NUMBER: K-19-1812-DBB-3

CONTRACT OR TASK TITLE: Pipeline Rehabilitation AQ-1

CONTRACTOR: Southwest Pipeline and Trenchless Corp.

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Work to be completed in Phase 1 shall include, Bonds, Mobilization, Videotaping of conditions, and Installation of 4.0 miles (minimum) of VC Sewer Mains.	Notice to Proceed	7/31/20	2,100,000.00
2	Work to be completed in Phase 2 shall include the remaining of the construction activities associated with contract and specifications.	8 /3 /20	Notice of Completion	2,109,510.10
Contract Total				\$ 4,209,510.10

**Notes:**

- 1) WHITEBOOK section 9-3.6, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

**CITY OF SAN DIEGO CONTRACTOR**

PRINT NAME: DINO CIAPRE

**Construction DCE**

Signature: 

Date: 8/7/19

PRINT NAME: Sheila Bose

**Design DCE**

Signature: 

Date: 7/2/19

PRINT NAME: Luis Salcedo

Title: Project Manager

Signature: 

Date: 8/13/19

**ATTACHMENT C**

**RESERVED**

**ATTACHMENT D**  
**PREVAILING WAGES**

## PREVAILING WAGES

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

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

- 1.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
- 1.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
- 1.9.2.** By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- 1.10. Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- 1.11. List of all Subcontractors.** The Contractor shall provide the list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Contract prior to any work being performed; and the Contractor shall provide a complete list of all subcontractors with each invoice. Additionally, Contractor shall provide the City with a complete list of all subcontractors (regardless of tier) utilized on this contract within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Construction Management Professional until at least thirty (30) days after this information is provided to the City.
- 1.12. Exemptions for Small Projects.** There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:

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

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



## **SUPPLEMENTARY SPECIAL PROVISIONS**

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

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

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

- 1-2 TERMS AND DEFINITIONS.** To the "WHITEBOOK", item 54, "Normal Working Hours", ADD the following:

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

To the "WHITEBOOK", item 43, DELETE in its entirety and SUBSTITUTE with the following:

43. **Field Order** - A Field Order is a written agreement by the Engineer to compensate you for Work items in accordance with 2-8, "EXTRA WORK" or 2-9, "CHANGED CONDITIONS". A Field Order does not change the Contract Price, Contract Time, or the scope intent of the Contract.

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

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

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

- 3-13.3 Warranty.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. You shall warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date the Work was accepted by the City unless the City had beneficial use of the project (excluding water, sewer, and storm drain projects). In addition, you shall warranty the Work against all latent defects for a period of 10 years and patent defects for a period of 4 years.

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

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of Highwood ST and Dent ST. See **Appendix F – Adjacent**

**Projects Map** for the approximate location. Coordinate the Work with the adjacent projects as listed below:

- a) AC Paving Group 1601, Chris Hudson (619-527-8081)

#### **SECTION 4 - CONTROL OF MATERIALS**

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

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

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

- 11. You shall submit your list of proposed substitutions for an "equal" item **no less than 15 Working Days prior to the bid due date** and on the City's Product Submittal Form available at:

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

#### **SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES**

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

**5-4 INSURANCE.**

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

**5-4.1 Policies and Procedures.**

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

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

**5-4.2 Types of Insurance.**

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

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

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

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

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

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

1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain the Contractors

Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.

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

**5-4.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

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

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

**5-4.4 Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

## **5-4.5 Policy Endorsements.**

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

#### **5-4.5.1.1 Additional Insured.**

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

**5-4.5.1.2 Primary and Non-Contributory Coverage.** The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**5-4.5.1.3 Project General Aggregate Limit.** The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

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

**5-4.5.2.1 Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

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

### **5-4.5.3.1 Additional Insured.**

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products,
  - c) your work, e.g., your completed operations performed by you or on your behalf, or
  - d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

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

**5-4.5.3.2 Primary and Non-Contributory Coverage.** The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

- 5-4.5.3.3 Severability of Interest.** For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.
- 5-4.6 Deductibles and Self-Insured Retentions.** You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.
- 5-4.7 Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.
- 5-4.8 Notice of Changes to Insurance.** You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.
- 5-4.9 Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.
- 5-4.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).**
1. For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc.) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate in full force and effect.
  2. You shall ensure the following:
    - a) The policy retroactive date is on or before the date of commencement of the Project.
    - b) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
  3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
    - a) Certify this to the City in writing and
    - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.
- 5-4.11 Workers' Compensation Insurance and Employers Liability Insurance.**
1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and

Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

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

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

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

**5-4.11.1. Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

**5-13 ELECTRONIC COMMUNICATION.** To the "WHITEBOOK", ADD the following:

2. Virtual Project Manager shall be used on this Contract. For more information, refer to the VPM training videos at the location below:

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

## **SECTION 6 - PROSECUTION AND PROGRESS OF THE WORK**

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

- s) Submit an updated cash flow forecast with every pay request (for each Project ID or WBS number provided in the Contract) showing periodic and cumulative construction billing amounts for the duration of the Contract Time. If there has been any Extra Work since the last update, include only the approved amounts.
- i. Refer to the Sample City Invoice materials in **Appendix D - Sample City Invoice with Cash Flow Forecast** and use the format shown.
- ii. See also the "Cash Flow Forecast Example" at the location below:

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



**6-1.5.2 Excusable Non-Compensable Delays.** To the "WHITEBOOK", DELETE in its entirety.

**ADD:**

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

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

**6-2.1 Moratoriums.** To the "WHITEBOOK", ADD the following:

3. Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are provided here:
  - a) Map 20 (Lake Alamor AV) from 1/8/2017 to 1/8/2020 (Slurry Moratorium).

**6-3 TIME OF COMPLETION.** To the "WHITEBOOK", ADD the following:

1. You shall complete the liner installation of 4.0 miles of sewer mains and the lateral reinstatements as verified by the Engineer within **June 29<sup>th</sup>, 2020**. The remaining Work including lateral lining and post-lining CCTV video, as a part of this contract shall be completed within the remaining number of Working Days.

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

1. The Contract Time shall not be modified except by Change Order.
2. You shall notify the City in writing within **1 Working Day** after the occurrence and discovery of an event that impacts the Project Schedule.
  - a) If you believe this event requires a Change Order, you shall submit a **written Change Order request with a report to** the City that explains the request for Change Order within **5 Working Days**. The Change Order request must include supporting data, a general description of the discovery, the basis for extension, and the estimated

length of extension. The City may grant an extension of time, in writing, for the Change Order request if you require more time to gather and analyze data.

3. The Engineer shall not grant an extension of Contract Time in accordance with 6-1.5, "Excusable Delays" unless you demonstrate, through an analysis of the critical path, the following:
  - a) The event causing the delay impacted the activities along the Project's critical path.
  - b) The increases in the time to perform all or part of the Project beyond the Contract Time arose from unforeseeable causes beyond your control and without your fault or negligence and that all project float has been used.
4. Any modifications to the Contract Time will be incorporated into the weekly document that the Engineer issues that stipulates the Contract Time. If you do not agree with this document, submit to the Engineer for review a written protest supporting your objections to the document within **30 Calendar Days** after receipt of the statement. Your failure to file a timely protest shall constitute your acceptance of the Engineer's weekly document.
  - a) Your protest will be considered a claim for time extension and shall be subject to 2-10.1, "Claims".

**ADD:**

**6-6.1.1 Environmental Document.**

1. The City of San Diego has prepared a **Notice of Exemption** for **Pipeline Rehabilitation AQ-1** (Sewer Rehabilitation Phase AQ-1), Project No. **B-17151**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Notice of Exemption** as set forth in **Appendix A**.
2. Compliance with the City's environmental document shall be included in the Contract Price.

**6-6.4 Written Notice and Report.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

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

**SECTION 7 – MEASUREMENT AND PAYMENT**

**7-3.2 Partial and Final Payment.** To the "GREENBOOK", paragraph (3), DELETE in its entirety and SUBSTITUTE with the following:

Upon commencement of the Work, an escrow account shall be established in a financial institution chosen by you and approved by the City. Documentation for an

escrow payment shall have an escrow agreement signed by you, the City, and the escrow agent. From each progress payment, no less than 5% will be deducted and deposited by the City into the escrow account. Upon completion of the Contract, the City will notify the Escrow agent in writing to release the funds to you. Only the designated representative of the City shall sign the request for the release of Escrow funds.

**7-3.9**

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

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

**TABLE 7-3.9  
FIELD ORDER LIMITS**

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

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

## SECTION 402 – UTILITIES

**402-6 COOPERATION.** To the “GREENBOOK”, ADD the following:

1. Notify SDG&E at least 10 Working Days prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

## SECTION 500 – PIPELINE REHABILITATION

**500-1 GENERAL.** To the “WHITEBOOK”, ADD the following:

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

**500-2.1 Initial Submittals.** To the “WHITEBOOK”, ADD the following:

2. Within **3 Working Days** of the Bid opening date, the **3 Apparent Low Bidders** shall submit the following:
  - a) Contractor’s Experience; past project documentation
  - b) Authorize Installer Certificates

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

**601-2.1.2 Engineered Traffic Control Plans (TCP).** To the “WHITEBOOK”, ADD the following:

5. Engineered TCP (2 foot x 3 foot size) shall be required for the following areas:
  - a. Navajo Rd from 250 feet West of Jaffe Ct. to 250 feet East of Jaffe Ct.
  - b. Jackson Dr. from Lake Murray Blvd. To Blue Lake Dr.
  - c. Lake Murray Blvd. from Lake Baca Dr. to Lake Arrowhead Dr.

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

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

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

---

## END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

**SUPPLEMENTARY SPECIAL PROVISIONS**  
**APPENDICES**

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

**NOTICE OF EXEMPTION**

(Check one or both)

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

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

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

**Project Name:** Sewer Rehabilitation Phase AQ-1

**Project No. / WBS No.:** B-17151.02.06

**Project Location-Specific:** This project is located on various streets bound by Dallas Street to the south, Boulder Lake Avenue to the west, SR-125 Southbound to the east, and Grossmont College Drive to the north. This project is located within the Navajo Community Planning Area, in Council District 7.

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

**Description of nature and purpose of the Project:** This project proposes to rehabilitate 43,011 linear feet (8.14 miles) of existing VC sewer main including 7.12 miles of trenchless rehabilitation and 1.02 miles of pipeline rehabilitation with 22 point repairs. The project also includes rehabilitation and reconnection of approximately 1,119 laterals; rehabilitation of 34 existing sewer manholes; repair of 10 existing sewer manholes; replace-in-place 12 existing sewer manholes; and installation of 31 new sewer main cleanouts. Any excavation within the City's right of way will occur within previously disturbed and improved right of way. Excavation within easements will occur within previously disturbed soil.

**Name of Public Agency Approving Project:** City of San Diego

**Name of Person or Agency Carrying Out Project:** Gretchen Eichar, 525 B Street #908, San Diego, CA, 92101, 619-533-4110

Exempt Status: (CHECK ONE)

- Ministerial (Sec. 21080(b)(1); 15268);
- Declared Emergency (Sec. 21080(b)(3); 15269(a));
- Emergency Project (Sec. 21080(b)(4); 15269 (b)(c))
- Categorical Exemption: Sec. 15301(d) Existing Facilities, Sec.15302(c) Replacement or Reconstruction.
- Statutory Exemptions:

Reasons why project is exempt: The City of San Diego conducted an environmental review which determined that the project meets the categorical exemption criteria set forth in CEQA State Guidelines, Section 15301(d) Existing Facilities, which allows for the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures; Section 15302 (c) Replacement or Reconstruction, which allows for the replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site and will have substantially the same purpose and capacity as the structure replaced; and where the exceptions listed in Section 15300.2 would not apply.

Lead Agency Contact Person: Gretchen Eichar

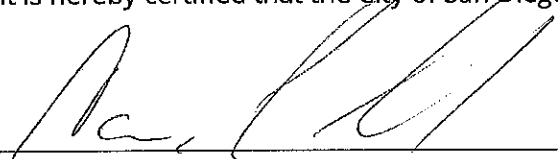
Telephone: (619) 533-4110

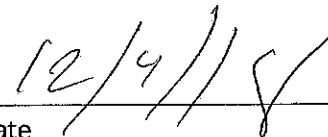
If filed by applicant:

1. Attach certified document of exemption finding.

2. Has a notice of exemption been filed by the public agency approving the project? ( ) Yes ( ) No

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

  
\_\_\_\_\_  
Carrie Purcell, Assistant Deputy Director

  
\_\_\_\_\_  
Date

Check One:

(X) Signed By Lead Agency

( ) Signed by Applicant

Date Received for Filing with County Clerk or OPR:



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

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

1. **PURPOSE**

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

2. **AUTHORITY**

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

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

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

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

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

2.7 Water Department Director

**Reference**

2.8 State of California Guidance Manual for Cross Connection Programs

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

2.10 American Water Works Association Standards for Water Meters

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

3. **DEFINITIONS**

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

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

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

4. **POLICY**

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

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

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

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

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

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

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

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

#### 4.7 Relocation of Existing Fire Hydrant Meters

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

#### 4.8 Disconnection of Fire Hydrant Meter

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

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for removal of the meter.

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

5. **EXCEPTIONS**

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

6. **MOBILE METER**

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

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



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

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

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

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

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

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7. **FEE AND DEPOSIT SCHEDULES**

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

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

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

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

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

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

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

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
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- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

**Water Department Director**

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

#### APPENDIX

**Administering Division:** Customer Support Division

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

**Distribution:** DI Manual Holders



# Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

## Meter Information

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

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

## Company Information

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

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

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

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

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

**Note:**

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

Date

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

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

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

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

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

Sincerely,

Water Department

**APPENDIX C**

**MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE**

## MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

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



**APPENDIX D**

**SAMPLE CITY INVOICE WITH CASH FLOW FORECAST**



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

Construction Cash Flow Forecast  
 "Sewer and Water Group Job 965 (W)"

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

SAMPLE REFERENCE

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

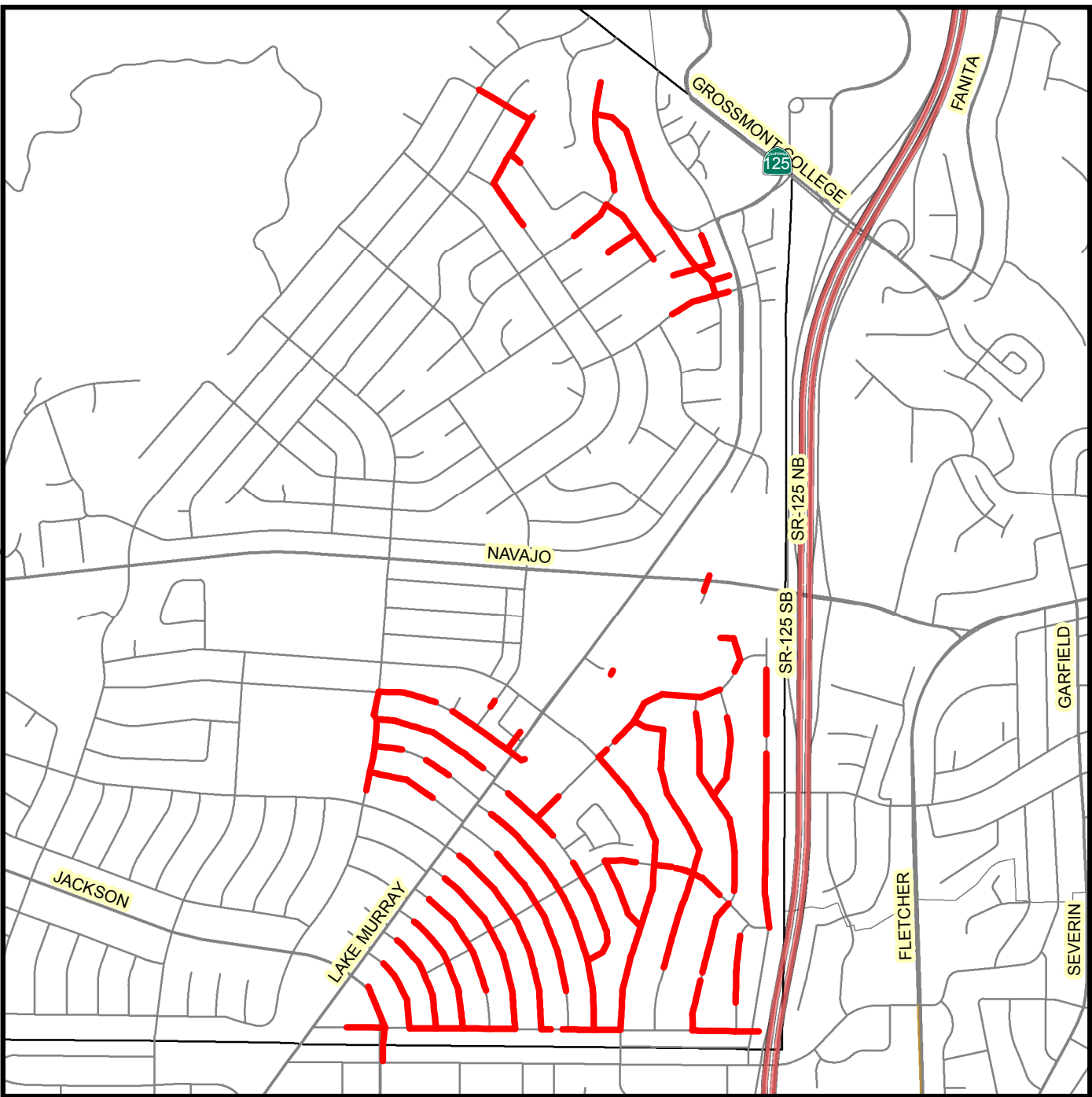
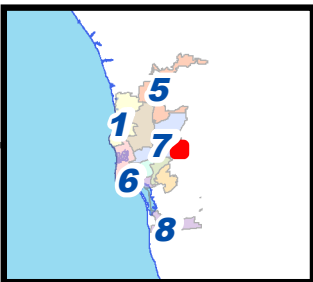
**PIPELINE REHABILITATION AQ-1**

SENIOR ENGINEER  
SHEILA BOSE  
619-533-4698

PROJECT MANAGER  
ELHAM LOTFI  
619-533-5212

PROJECT ENGINEER  
BAREAZ PIROMARI  
619-533-5474

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



**Legend**

PROPOSED SEWER MAIN REHABILITATION



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

### PIPELINE REHABILITATION AQ-1

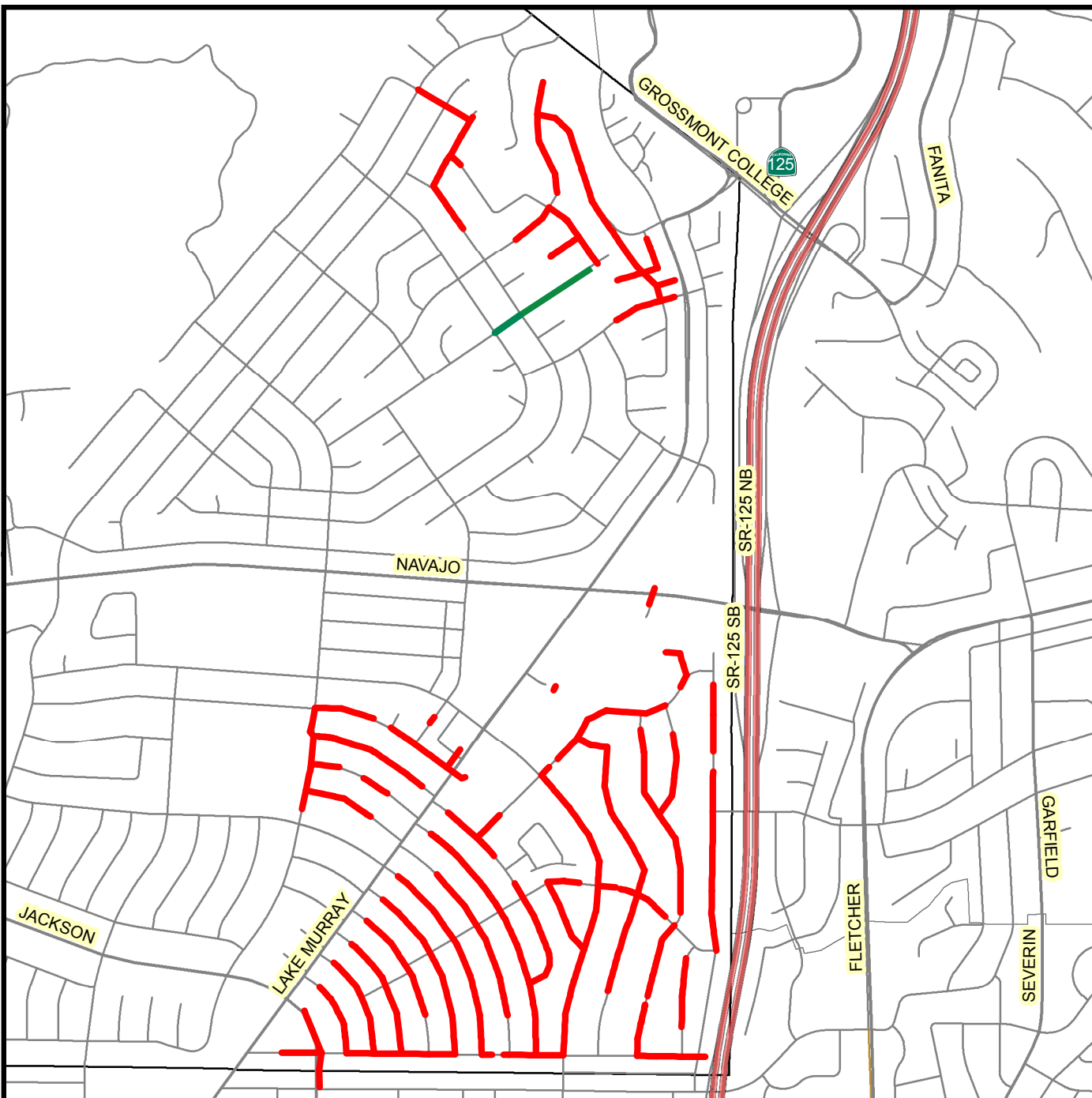
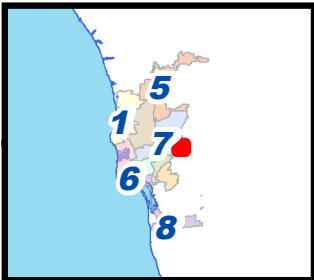
#### Adjacent Project Map

SENIOR ENGINEER  
SHEILA BOSE  
619-533-4698

PROJECT MANAGER  
ELHAM LOTFI  
619-533-5212

PROJECT ENGINEER  
BAREAZ PIROMARI  
619-533-5474

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



#### Legend

- AC Paving Group 1601
- PROPOSED SEWER MAIN REHABILITATION



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## APPENDIX G

### SEWER MAIN PIPELINE REHABILITATION AQ-1 SPREADSHEETS



Pipeline Rehabilitation AQ-1 (B-17151)\_ Sewer Pipeline Spreadsheet

Map Sheet Number	Street Name	FSN	Length (Feet)	Size (Inch)	Material	Action	DS MH ID	DS MH IE	DS MH Depth	US MH ID	US MH IE	US MH Depth	Lateral	Thomas Bro	Council District	Community	Field Book
1	Acuff DR	65043	272	8	VC	Rehab	9	745.46	7	8	746.56	7	0	1250J3	7	Navajo	N13S
	Acuff DR	65058	261	8	VC	Rehab	8	746.56	7	31	747.65	7	0	1250J3	7	Navajo	N13S
	Turnford DR	65068	35	8	VC	Rehab	31	747.65	7	PLUG	748	7	2	1250J3	7	Navajo	N13S
	Turnford DR	65065	350	8	VC	Rehab	31	747.65	7	30	749.05	16	10	1250J3	7	Navajo	N13S
	Warmwell DR	65066	116	8	VC	Rehab	30	749.05	16	29	749.51	18	2	1250J3	7	Navajo	N13S
	Turnford DR	65064	70	8	VC	Rehab	30	749.05	16	28	760.81	7	1	1250J3	7	Navajo	N13S
	Turnford DR	65063	249	8	VC	Rehab	28	760.81	7	73	767.78	7	8	1250J3	7	Navajo	N13S
	Bobbird DR	65192	253	8	VC	Rehab	73	767.78	7	175	778.41	7	8	1250J3	7	Navajo	N13S
	Bobbird DR	65191	200	8	VC	Rehab	175	778.41	7	PLUG	786.81	7	8	1250J3	7	Navajo	N13S
2	Jackie DR	65075	150	8	VC	Rehab	45	729.18	10	PLUG	739.68	10	6	1250J3	7	Navajo	N13S
	Jackie DR	65076	330	8	VC	Rehab	46	727.86	5	45	729.18	10	11	1250J3	7	Navajo	N13S
	Jackie DR	65077	243	8	VC	Point Repair / Rehab	47	726.89	5	46	727.86	5	7	1250J3	7	Navajo	N13S
	Jackie DR	65078	200	8	VC	Rehab	47	726.89	5	48	727.69	5	7	1250J3	7	Navajo	N13S
	Jackie DR	65079	91	8	VC	Rehab	48	727.69	5	PLUG	728.05	5	6	1250J3	7	Navajo	N13S
	ROBLES DR	65080	163	10	VC	Rehab	50	726.4	4	47	726.89	5	1	1250J3	7	Navajo	N13S
	ROBLES DR	65081	175	10	VC	Rehab	51	725.89	5	50	726.4	4	6	1250J3	7	Navajo	N13S
	ROBLES DR	65082	350	10	VC	Rehab	52	724.83	13	51	725.89	5	12	1250J3	7	Navajo	N13S
	ROBLES DR	65083	307	10	VC	Rehab	155	723.91	24	52	724.83	13	10	1250J3	7	Navajo	N13S
	ROBLES DR	65174	350	10	VC	Rehab	154	716.09	15	155	723.91	24	9	1251A3	7	Navajo	O13S
3	ROBLES DR / Private	66221	330	10	VC	Rehab	5	715.1	6	154	716.09	6	5	1251A3	7	Navajo	O13S
	ROBLES WY	66222	82	10	VC	Rehab	5	715.1	6	6	721.62	14	0	1251A3	7	Navajo	O13S
	ROBLES WY	66223	135	8	VC	Rehab	6	721.62	14	7	723.04	12	5	1251A3	7	Navajo	O13S
	ROBLES WY	66224	200	8	VC	Rehab	6	721.62	14	PLUG	729.79	6	8	1251A3	7	Navajo	O13S
	ROBLES WY	66225	171	10	VC	Rehab	8	714.34	30	6	721.62	14	0	1251A3	7	Navajo	O13S
	ROBLES WY	66220	199	8	VC	Rehab	7	723.04	12	4	723.84	6	6	1251A3	7	Navajo	O13S
	ROBLES WY	66219	75	8	VC	Rehab	4	723.84	6	PLUG	724.14	3	4	1251A3	7	Navajo	O13S
	ROBLES WY	66226	180	10	VC	Rehab	8	714.34	30	10	714.88	25	0	1251A3	7	Navajo	O13S
	Mulvaney DR	66258	125	10	VC	Rehab	47	713.82	30.21	8	714.34	30	0	1251A3	7	Navajo	O13S
	Mulvaney DR	66257	22	8	VC	Rehab	47	713.82	30.21	48	735.82	8	0	1251A3	7	Navajo	O13S
	Mulvaney DR	66256	100	8	VC	Rehab	48	735.82	8	PLUG	736.32	6	5	1251A3	7	Navajo	O13S
	Mulvaney DR	66259	38	8	VC	Rehab	47	713.82	30.21	50	735.8	9	0	1251A3	7	Navajo	O13S
	Mulvaney DR	66260	182	8	VC	Rehab	50	735.8	9	51	743.33	8	7	1251A3	7	Navajo	O13S
	Mulvaney DR	66261	200	8	VC	Rehab	51	743.33	8	PLUG	753.33	8	8	1251A3	7	Navajo	O13S
4	Jackie DR	65197	312	8	VC	Rehab	166	756.21	10	167	795.46	7	11	1250J3	7	Navajo	N13S
	Jackie DR	65196	105	8	VC	Rehab	157	754.12	5	166	756.21	10	0	1250J3	7	Navajo	N13S
	Dent DR	65175	169	8	VC	Rehab	157	754.12	5	158	754.79	5	5	1250J3	7	Navajo	N13S
	Dent DR	65176	208	8	VC	Rehab	158	754.79	5	159	767.68	6	4	1250J3	7	Navajo	N13S
	Dent CT	65177	70	8	VC	Rehab	164	772.96	5	PLUG	774.64	5	6	1250J3	7	Navajo	N13S
	Dent CT	65178	220	8	VC	Rehab	159	767.68	6	164	772.96	5	6	1250J3	7	Navajo	N13S
	Dent DR	65179	278	8	VC	Point Repair / Rehab	159	767.68	6	161	771.29	8	6	1251A3	7	Navajo	N13S
	Jaffe CT	66283	170	8	VC	Rehab	22	678.26	7	PLUG	678.94	7	1	1251A4	7	Navajo	O14S
	5	Lake Ashmere Ct	66289	123	8	VC	Rehab	30	755.07	7	PLUG	757.4	6	6	1251A4	7	Navajo
Lake Ashmere Ct		66290	199	8	VC	Rehab	32	751.3	6	30	755.07	7	5	1251A4	7	Navajo	O14S
Lake Ashmere DR		66294	126	8	VC	Rehab	35	750.55	5	32	751.3	6	5	1251A5	7	Navajo	O14S
East Lake DR		66292	280	8	VC	Rehab	34	712.79	8	33	734.89	9	7	1251A5	7	Navajo	O14S
East Lake DR		66293	330	8	VC	Rehab	59	710.81	8	34	712.79	8	11	1251A5	7	Navajo	O14S
6	East Lake DR	66308	350	8	VC	Rehab	57	673.42	10	58	703.32	6	9	1251A5	7	Navajo	O14S
	East Lake DR	66307	350	8	VC	Rehab	51	672.02	9	57	673.42	10	10	1251A5	7	Navajo	O14S
	East Lake DR	66327	350	8	VC	Rehab	10	670.62	15	51	672.02	9	10	1251A5	7	Navajo	O14S
	East Lake DR	66328	258	8	VC	Point Repair / Rehab	11	669.59	9	10	670.62	15	8	1251A5	7	Navajo	O15S
	East Lake DR	66329	263	8	VC	Rehab	13	647.24	9	11	669.59	9	5	1251A5	7	Navajo	O15S
	Lake Apopka PL	66326	300	8	VC	Rehab	8	708.64	8	49	709.84	10	10	1251A5	7	Navajo	O14S
7	Lake Apopka PL	66325	350	8	VC	Rehab	7	697.09	7	8	708.64	8	10	1251A5	7	Navajo	O15S
	Lake Mere CT	66298	200	8	VC	Rehab	42	748.13	7	PLUG	751.13	7	7	1251A5	7	Navajo	O14S
	Lake Mere CT	66302	350	8	VC	Rehab	46	735.88	8	42	748.13	7	11	1251A5	7	Navajo	O14S
	Lake Mere CT	66304	198	8	VC	Rehab	47	728.97	8	46	735.88	8	3	1251A5	7	Navajo	O14S
	Lake Apopka PL	66305	268	8	VC	Rehab	49	709.84	10	47	728.97	8	7	1251A5	7	Navajo	O14S
	Lake Apopka PL	66303	230	8	VC	Rehab	47	728.97	8	45	738.42	6	5	1251A5	7	Navajo	O14S
	Lake Apopka PL	66301	350	8	VC	Rehab	45	738.42	6	43	741.22	6	11	1251A5	7	Navajo	O14S
	Lake Apopka PL	66300	200	8	VC	Rehab	43	741.22	6	PLUG	745.22	6	8	1251A5	7	Navajo	O14S
	Lynnhaven LN	65479	5	8	VC	Rehab	258	681.85	8	PLUG	-	-	0	1250J5	7	Navajo	N14S
	Lynnhaven LN	65478	5	8	VC	Rehab	258	681.85	8	PLUG	-	-	0	1250J5	7	Navajo	N14S
Lake Ashmere DR	65465	251	8	VC	Rehab	252	724.78	12	243	725.79	10	6	1250J5	7	Navajo	N14S	
Lake Ashmere DR	65474	185	8	VC	Rehab	252	724.78	12	253	739.18	7	5	1251A5	7	Navajo	N14S	

Pipeline Rehabilitation AQ-1 (B-17151)\_ Sewer Pipeline Spreadsheet

Map Sheet Number	Street Name	FSN	Length (Feet)	Size (Inch)	Material	Action	DS MH ID	DS MH IE	DS MH Depth	US MH ID	US MH IE	US MH Depth	Lateral	Thomas Bro	Council District	Community	Field Book
8	Lake Ashmere DR	65475	182	8	VC	Rehab	253	739.18	7	254	746.08	6	5	1251A5	7	Navajo	N145
	Lake Ashmere DR	66299	350	8	VC	Rehab	254	746.08	6	40	748.18	6	9	1251A5	7	Navajo	O145
	Lake Ashmere DR	66296	184	8	VC	Rehab	40	748.18	6	36	749.28	6	3	1251A5	7	Navajo	O145
	Lake Athabaska WY	65473	131	8	VC	Rehab	251	722.16	10	252	724.78	12	2	1251A5	7	Navajo	N145
Lake Athabaska WY	65472	150	8	VC	Rehab	250	719.3	6	251	722.16	10	2	1251A6	7	Navajo	N145	
Lake Athabaska PL	65471	350	8	VC	Rehab	277	699.35	7	250	719.3	6	11	1251A5	7	Navajo	N145	
Lake Athabaska PL	65470	231	8	VC	Point Repair / Rehab	249	690.1	6	277	699.35	7	7	1251A5	7	Navajo	N145	
Lake Athabaska PL	66306	350	8	VC	Rehab	48	675.05	7	249	690.1	6	11	1251A5	7	Navajo	O145	
Lake Athabaska PL	66314	234	8	VC	Rehab	1	664.98	8	48	675.05	7	8	1251A5	7	Navajo	O145	
Lake Angela DR	65770	162	8	VC	Rehab	PLUG	642.15	8	200	646.92	4	0	1251A5	7	Navajo	N155	
9	Lake Arrowhead DR	65769	215	8	VC	Point Repair / Rehab	200	646.92	4	203	647.78	9	5	1251A5	7	Navajo	N155
	Lake Arrowhead DR	65768	254	8	VC	Rehab	203	647.78	9	248	670.09	8	7	1251A5	7	Navajo	N145
	Lake Arrowhead DR	65469	300	8	VC	Rehab	248	670.09	8	247	687.01	9	8	1250J5	7	Navajo	N145
	Lake Arrowhead DR	65468	300	8	VC	Rehab	247	687.01	9	246	706.21	8	8	1250J5	7	Navajo	N145
	Lake Arrowhead DR	65467	78	8	VC	Rehab	246	706.21	8	245	708.65	6	1	1250J5	7	Navajo	N145
	Lake Ashmere DR	65466	106	8	VC	Rehab	245	708.65	6	244	717.83	7	2	1250J5	7	Navajo	N145
	Lake Angela DR	66319	172	8	VC	Rehab	3	655.61	6	4	673.65	8	2	1251A5	7	Navajo	O155
	Lake Angela DR	66318	95	8	VC	Rehab	2	651.52	14	3	655.61	6	1	1251A5	7	Navajo	O155
	Lake Angela DR	66316	148	8	VC	Rehab	PLUG	646.5	3	2	651.52	14	1	1251A5	7	Navajo	N155
10	Lake Athabaska PL	66315	221	8	VC	Point Repair / Rehab	2	651.52	14	1	664.98	8	4	1251A5	7	Navajo	O155
	Lake Athabaska PL	66317	300	8	VC	Point Repair / Rehab	29	650.32	10	2	651.52	14	8	1251A5	7	Navajo	O155
	Lake Athabaska PL	66345	300	8	VC	Rehab	207	649.12	7	29	650.32	10	10	1251A5	7	Navajo	O155
	Lake Athabaska PL	65771	300	8	VC	Point Repair / Rehab	174	647.62	7	207	649.12	7	10	1251A6	7	Navajo	N155
	South Lake CT	66339	350	8	VC	Rehab	22	660.46	6	14	663.71	7	13	1251A6	7	Navajo	O155
South Lake CT	66338	265	8	VC	Rehab	21	645.88	6	22	660.46	6	7	1251A6	7	Navajo	O155	
Blue Lake DR	66335	248	8	VC	Rehab	17	631.64	7	20	632.63	14	0	1251A6	7	Navajo	O155	
Blue Lake DR	66336	204	8	VC	Rehab	20	632.63	14	27	633.51	25	6	1251A6	7	Navajo	O155	
Blue Lake DR	66344	170	8	VC	Rehab	27	633.51	25	28	641.02	28	5	1251A6	7	Navajo	O155	
Lake Apopka PL	66342	162	8	VC	Rehab	28	641.02	27	26	667.79	7	0	1251A6	7	Navajo	O155	
Lake Apopka PL	66341	284	8	VC	Rehab	26	667.79	7	24	693.95	8	8	1251A6	7	Navajo	O155	
Lake Apopka PL	66340	181	8	VC	Rehab	23	693.98	9	PLUG	697.81	7	8	1251A6	7	Navajo	O155	
Lake Apopka PL	66321	341	8	VC	Rehab	5	686.74	8	23	693.98	9	10	1251A6	7	Navajo	O155	
Lake Apopka PL	66320	166	8	VC	Rehab	5	686.74	8	6	689.25	15	3	1251A5	7	Navajo	O155	
12	Lake Arrowhead DR	65763	315	8	VC	Rehab	175	629.02	7	198	632.62	6	10	1251A5	7	Navajo	N155
	Arms Lake AV	65762	163	8	VC	Rehab	198	632.62	6	197	634.26	6	2	1251A5	7	Navajo	N155
	Arms Lake AV	65761	258	8	VC	Rehab	197	634.26	6	196	636.84	7	7	1250J5	7	Navajo	N155
	Arms Lake AV	65760	262	8	VC	Rehab	196	636.84	7	195	639.53	7	5	1250J5	7	Navajo	N155
	Lake Angela DR	65767	158	8	VC	Rehab	195	639.53	7	202	641.88	7	1	1250J5	7	Navajo	N155
	Lake Angela DR	65766	140	8	VC	Rehab	202	641.88	7	PLUG	643.56	6	3	1251A5	7	Navajo	N155
	Lake Arrowhead DR	65764	334	8	VC	Rehab	198	632.62	6	199	639.62	6	7	1251A5	7	Navajo	N155
	Lake Arrowhead DR	65765	234	8	VC	Point Repair / Rehab	199	639.62	6	200	646.92	4	6	1251A5	7	Navajo	N155
13	Blue Lake DR	65733	141	8	VC	Rehab	168	612.46	13	169	613.02	8	2	1250J6	7	Navajo	N155
	Blue Lake DR	65734	240	8	VC	2 Point Repairs / Rehab	169	613.02	8	170	621.41	8	3	1250J6	7	Navajo	N155
	Lake Ariana AV	65740	348	8	VC	Rehab	169	613.02	8	177	616.32	6	10	1250J6	7	Navajo	N155
	Lake Ariana AV	65741	290	8	VC	Rehab	177	616.32	6	179	619.08	6	8	1250J6	7	Navajo	N155
	Lake Arrowhead DR	65739	350	8	VC	Rehab	170	621.41	8	176	625.54	6	10	1251A6	7	Navajo	N155
Lake Arrowhead DR	65738	300	8	VC	Rehab	176	625.54	8	175	629.02	7	10	1251A6	7	Navajo	N155	
14	Lake Atlin AV	65742	150	8	VC	Rehab	179	619.08	6	178	622.08	6	2	1250J6	7	Navajo	N155
	Lake Ariana AV	65754	350	8	VC	Rehab	179	619.08	6	189	626.08	8	10	1250J5	7	Navajo	N155
	Lake Ariana AV	65753	250	8	VC	Point Repair / Rehab	189	626.08	8	188	631.08	10	6	1250J5	7	Navajo	N155
	Lake Ariana AV	65752	350	8	VC	Rehab	188	631.08	10	187	638	8	10	1250J5	7	Navajo	N155
	Lake Atlin AV	65755	95	8	VC	Rehab	178	622.08	6	190	624.02	6	2	1250J6	7	Navajo	N155
	Lake Atlin AV	65756	95	8	VC	Rehab	190	624.02	6	191	626.01	7	3	1250J6	7	Navajo	N155
	Lake Atlin AV	65757	350	8	VC	Rehab	191	626.01	7	192	633.01	8	10	1250J5	7	Navajo	N155
Lake Atlin AV	65758	350	8	VC	Rehab	192	633.01	8	193	640.01	7	7	1250J5	7	Navajo	N155	
15	Lake Atlin AV	65460	350	8	VC	Rehab	235	647.81	5	238	654.81	6	12	1250J5	7	Navajo	N145
	Lake Ashmere DR	65461	10	8	VC	Rehab	237	659.89	13	PLUG	660.3	13	0	1250J5	7	Navajo	N145
	Lake Ashmere DR	65459	261	8	VC	Rehab	235	647.81	5	237	659.89	13	3	1250J5	7	Navajo	N145
	Lake Atlin AV	65458	229	8	VC	Point Repair / Rehab	234	644.51	6	235	647.81	5	4	1250J5	7	Navajo	N145
	Lake Ariana AV	65457	300	8	VC	Rehab	233	645.08	6	232	651.08	5	12	1250J5	7	Navajo	N145
	Lake Ariana AV	65751	350	8	VC	Rehab	187	638	6	233	645.08	8	10	1250J5	7	Navajo	N145
	Lake Arago AV	65775	350	8	VC	Rehab	186	634.37	6	140	640.46	7	11	1250J5	7	Navajo	N155
16	Lake Arago AV	65750	350	8	VC	Rehab	185	630.87	5	186	634.37	6	10	1250J5	7	Navajo	N155
	Lake Aral AV	65690	90	8	VC	Rehab	139	637.81	6	PLUG	638.89	7	6	1250J5	7	Navajo	N155

## Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Pipeline Spreadsheet

Map Sheet Number	Street Name	FSN	Length (Feet)	Size (Inch)	Material	Action	DS MH ID	DS MH IE	DS MH Depth	US MH ID	US MH IE	US MH Depth	Lateral	Thomas Bro	Council District	Community	Field Book
17	Lake Aral AV	65691	350	8	VC	Point Repair / Rehab	141	633.61	6	139	637.81	6	9	12505	7	Navajo	N155
	Lake Aral AV	65692	350	8	VC	Rehab	184	630.81	5	141	633.61	6	10	12505	7	Navajo	N155
	Lake Arago AV	65749	350	8	VC	Rehab	180	627.37	6	185	630.87	5	10	12505	7	Navajo	N155
	Lake Arago AV	65743	350	8	VC	Rehab	181	623.87	6	180	627.37	6	11	12506	7	Navajo	N155
	Blue Lake DR	65729	98	8	VC	Rehab	168	612.46	13	165	620.3	6	1	12506	7	Navajo	N155
	Blue Lake DR	65728	50	8	VC	Rehab	165	620.3	6	PLUG	622.3	5	2	12506	7	Navajo	N155
	Blue Lake DR	65727	85	8	VC	Rehab	162	622.81	6	PLUG	623.17	3	2	12506	7	Navajo	N155
	Lake Aral AV	65745	350	8	VC	Rehab	162	622.81	6	182	625.61	6	10	12506	7	Navajo	N155
	Lake Aral AV	65747	350	8	VC	Point Repair / Rehab	182	625.61	6	183	628.41	5	11	12506	7	Navajo	N155
	Lake Aral AV	65748	300	8	VC	Rehab	183	628.41	5	184	630.81	5	8	12505	7	Navajo	N155
18	Anvil Lake AV	65746	350	8	VC	Rehab	161	618.28	6	143	621.08	3	10	12506	7	Navajo	N155
	Blue Lake DR	65725	238	8	VC	Point Repair / Rehab	160	617.33	3	161	618.28	6	4	12506	7	Navajo	N155
	Blue Lake DR	65719	238	8	VC	Point Repair / Rehab	159	616.38	4.74	160	617.33	3	4	12506	7	Navajo	N155
	Lake Albano AV	65720	350	8	VC	Rehab	159	616.38	4.74	147	617.78	8	11	12506	7	Navajo	N155
	Blue Lake DR	65718	238	8	VC	Rehab	158	615.42	8	159	616.38	4.74	4	12506	7	Navajo	N155
	Anvil Lake AV	65695	160	8	VC	Rehab	134	632.28	6	PLUG	633.72	6	7	12505	7	Navajo	N155
19	Anvil Lake AV	65694	350	8	VC	Rehab	133	629.13	7	134	632.28	6	12	12505	7	Navajo	N155
	Anvil Lake AV	65693	350	8	VC	Rehab	142	623.88	6	133	629.13	7	8	12505	7	Navajo	N155
	Anvil Lake AV	65723	350	8	VC	Rehab	143	621.08	3	142	623.88	6	12	12506	7	Navajo	N155
	Amber Lake AV	65779	280	8	VC	Rehab	132	626.78	6	131	630.14	6	11	12505	7	Navajo	N155
	Amber Lake AV	65696	280	8	VC	Rehab	145	620.83	7	132	626.78	6	10	12505	7	Navajo	N155
	Amber Lake AV	65722	350	8	VC	Rehab	144	618.73	5	145	620.83	7	11	12506	7	Navajo	N155
	Lake Albano AV	65698	50	8	VC	Rehab	129	623.73	7	PLUG	625.98	6	4	12506	7	Navajo	N155
	Lake Albano AV	65697	350	8	VC	Rehab	146	620.23	6	129	623.73	7	11	12506	7	Navajo	N155
	Lake Albano AV	65721	350	8	VC	Rehab	147	617.78	8	146	620.23	6	10	12506	7	Navajo	N155
	Lake Alturas AV	65704	50	8	VC	Rehab	128	621.57	9	PLUG	621.93	9	2	12506	7	Navajo	N155
20	Lake Alturas AV	65715	250	8	VC	Rehab	149	619.32	8	128	621.57	9	9	12506	7	Navajo	N155
	Lake Alturas AV	65716	300	8	VC	Rehab	148	616.62	9	149	619.32	8	8	12506	7	Navajo	N155
	Lake Alturas AV	65717	300	8	VC	Rehab	158	615.42	8	148	616.62	9	9	12506	7	Navajo	N155
	Blue Lake DR	65711	238	8	VC	Rehab	157	614.47	10	158	615.42	8	3	12506	7	Navajo	N155
	Lake Alamor AV	65712	250	8	VC	Rehab	157	614.47	10	152	619.72	6	6	12506	7	Navajo	N155
	Lake Alamor AV	65713	250	8	VC	Point Repair / Rehab	152	619.72	6	151	621.37	6	8	12506	7	Navajo	N155
21	Lake Alamor AV	65714	150	8	VC	Point Repair / Rehab	151	621.37	6	PLUG	623.63	6	7	12506	7	Navajo	N155
	Jackson DR	65706	80	8	VC	Rehab	154	620.54	7	PLUG	620.86	7	3	12506	7	Navajo	N155
	Jackson DR	65707	326	8	VC	Point Repair / Rehab	155	613.58	12	154	620.54	7	7	12506	7	Navajo	N155
	Blue Lake DR	65656	350	8	VC	Rehab	155	613.58	12	85	620.58	6	8	12506	7	Navajo	N155
	Jackson DR	65708	151	8	VC	Rehab	156	612.98	18	155	613.58	12	0	12506	7	Navajo	N155
	Jackson DR	65709	168	8	VC	Rehab	209	606.19	21	156	612.98	18	0	12506	7	Navajo	N155
22	Bisby Lake AV	65435	63	8	VC	Rehab	213	660.39	7	PLUG	660.83	6	3	12505	7	Navajo	N145
	Beaver Lake DR	65434	254	8	VC	Rehab	209	654.5	7	214	658.82	6	7	12505	7	Navajo	N145
	Beaver Lake DR	65448	350	8	VC	Rehab	214	658.82	6	241	660.92	6	8	12505	7	Navajo	N145
	Beaver Lake DR	65463	158	8	VC	Point Repair / Rehab	241	660.92	6	239	661.87	7	0	12505	7	Navajo	N145
	Lake Murray BL	65462	25	8	VC	Rehab	239	661.87	7	PLUG	-	-	1	12505	7	Navajo	N145
23	Beaver Lake DR	65464	200	8	VC	Rehab	241	660.92	6	PLUG	664.92	6	1	12505	7	Navajo	N145
	Lake Baca DR	65447	349	8	VC	Point Repair / Rehab	215	650.06	7	216	663.32	6	11	12505	7	Navajo	N145
	Lake Baca DR	65446	200	8	VC	Rehab	216	663.32	6	217	664.12	6	8	12505	7	Navajo	N145
	Mono Lake DR	65444	249	8	VC	Rehab	220	657.39	8	219	661.63	12	7	12505	7	Navajo	N145
24	Boulder Lake AV	65428	219	8	VC	Rehab	202	637.41	18	201	649.28	14	1	12505	7	Navajo	N145
	Beaver Lake DR	65430	235	8	VC	Rehab	201	649.28	14	207	652.64	11	6	12505	7	Navajo	N145
	Beaver Lake DR	65431	295	8	VC	Rehab	207	652.64	11	208	653.82	7	9	12505	7	Navajo	N145
	Boulder Lake AV	65440	48	8	VC	Rehab	202	637.41	18	205	639.68	14	0	12505	7	Navajo	N145
	Lake Baca DR	65438	176	8	VC	Rehab	205	639.68	14	206	647.61	7	4	12505	7	Navajo	N145
	Lake Baca DR	65437	350	8	VC	Rehab	206	647.61	7	215	650.06	7	10	12505	7	Navajo	N145
25	Boulder Lake AV	65441	246	8	VC	Rehab	205	639.68	14	222	640.66	13	0	12505	7	Navajo	N145
	Mono Lake DR	65442	250	8	VC	Rehab	222	640.66	13	221	650.3	6	6	12505	7	Navajo	N145
	Boulder Lake AV	65452	236	8	VC	Rehab	222	640.66	13	223	641.61	12	0	12505	7	Navajo	N145
	June Lake DR	65451	344	8	VC	Rehab	223	641.61	12	224	652.96	10	9	12505	7	Navajo	N145
	June Lake DR	65450	281	8	VC	Rehab	224	652.96	10	225	654.09	15	8	12505	7	Navajo	N145
	Boulder Lake AV	65453	149	8	VC	Rehab	223	641.61	12	PLUG	642.21	9	0	12505	7	Navajo	N145

## APPENDIX H

### SEWER LATERAL PIPELINE REHABILITATION AQ-1 SPREADSHEETS

**Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Lateral Spreadsheet**

<b>Map Sheet Number</b>	<b>FSN Of Sewer main</b>	<b>Lateral NO.</b>	<b>Lateral FSN</b>	<b>Lateral Size (Inch)</b>	<b>Field Book</b>	<b>Street NO.</b>	<b>Street Name</b>	<b>Thomas Bro</b>
1	65068	1	186818	4	N13S	7411	Turnford DR	1250J3
		2	186801	4	N13S	7410	Turnford DR	1250J3
	65065	3	312018	4	N13S	7379	Turnford DR	1250J3
		4	187352	4	N13S	7369	Turnford DR	1250J3
		5	187160	4	N13S	7389	Turnford DR	1250J3
		6	187407	4	N13S	7358	Turnford DR	1250J3
		7	186994	4	N13S	7399	Turnford DR	1250J3
		8	186931	4	N13S	7405	Turnford DR	1250J3
		9	312003	4	N13S	7378	Turnford DR	1250J3
		10	311830	4	N13S	7398	Turnford DR	1250J3
		11	311927	4	N13S	7388	Turnford DR	1250J3
		12	312066	4	N13S	7368	Turnford DR	1250J3
	65066	13	312261	4	N13S	8602	Warmwell DR	1250J3
		14	312300	4	N13S	8612	Warmwell DR	1250J3
	65064	15	187487	4	N13S	7348	Turnford DR	1250J3
	65063	16	187677	4	N13S	7339	Turnford DR	1250J3
		17	312281	4	N13S	7338	Turnford DR	1250J3
		18	312492	4	N13S	7319	Turnford DR	1250J3
		19	312426	4	N13S	7318	Turnford DR	1250J3
		20	312341	4	N13S	7328	Turnford DR	1250J3
		21	312529	4	N13S	7309	Turnford DR	1250J3
		22	187776	4	N13S	7329	Turnford DR	1250J3
		23	187838	4	N13S	7308	Turnford DR	1250J3
	65192	24	188011	4	N13S	7204	Bobhird DR	1250J3
		25	188068	4	N13S	7198	Bobhird DR	1250J3
		26	312718	4	N13S	7190	Bobhird DR	1250J3
		27	312661	4	N13S	7191	Bobhird DR	1250J3
		28	188122	4	N13S	7183	Bobhird DR	1250J3
		29	188243	4	N13S	7182	Bobhird DR	1250J3
		30	188300	4	N13S	7174	Bobhird DR	1250J3
		31	188258	4	N13S	7175	Bobhird DR	1250J3
	65191	32	312820	4	N13S	7167	Bobhird DR	1250J3
		33	188411	4	N13S	7166	Bobhird DR	1250J3
		34	188484	4	N13S	7158	Bobhird DR	1250J3
		35	188407	4	N13S	7159	Bobhird DR	1250J3
		36	188479	4	N13S	7151	Bobhird DR	1250J3
		37	313020	4	N13S	7150	Bobhird DR	1250J3
		38	188656	4	N13S	7142	Bobhird DR	1250J3
		39	188566	4	N13S	7143	Bobhird DR	1250J3
65075	65075	40	312647	4	N13S	8687	Jackie DR	1250J3
		41	312588	4	N13S	8690	Jackie DR	1250J3
		42	187938	4	N13S	8693	Jackie DR	1250J3
		43	312507	4	N13S	8696	Jackie DR	1250J3
		44	312482	4	N13S	8699	Jackie DR	1250J3
		45	187777	4	N13S	8709	Jackie DR	1250J3
	65076	46	187702	4	N13S	8719	Jackie DR	1250J3
		47	312427	4	N13S	8706	Jackie DR	1250J3
		48	187631	4	N13S	8729	Jackie DR	1250J3
		49	312368	4	N13S	8716	Jackie DR	1250J3
		50	312307	4	N13S	8726	Jackie DR	1250J3
		51	187543	4	N13S	8739	Jackie DR	1250J3
		52	312243	4	N13S	8736	Jackie DR	1250J3
		53	312174	4	N13S	8749	Jackie DR	1250J3

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
2		54	312176	4	N13S	8746	Jackie DR	1250J3
		55	312091	4	N13S	8759	Jackie DR	1250J3
		56	312083	4	N13S	8756	Jackie DR	1250J3
	65077	57	311995	4	N13S	8771	Jackie DR	1250J3
		58	187209	4	N13S	8766	Jackie DR	1250J3
		59	311902	4	N13S	8785	Jackie DR	1250J3
		60	311913	4	N13S	8776	Jackie DR	1250J3
		61	311815	4	N13S	8786	Jackie DR	1250J3
		62	311770	4	N13S	8795	Jackie DR	1250J3
		63	186810	4	N13S	8796	Jackie DR	1250J3
	65078	64	311591	4	N13S	8815	Jackie DR	1250J3
		65	186641	4	N13S	8816	Jackie DR	1250J3
		66	186541	4	N13S	8825	Jackie DR	1250J3
		67	311486	4	N13S	8826	Jackie DR	1250J3
		68	311420	4	N13S	8835	Jackie DR	1250J3
		69	186376	4	N13S	8836	Jackie DR	1250J3
		70	186726	4	N13S	8806	Jackie DR	1250J3
	65079	71	186257	4	N13S	8846	Jackie DR	1250J3
		72	186299	4	N13S	8845	Jackie DR	1250J3
		73	186167	4	N13S	8856	Jackie DR	1250J3
		74	186166	4	N13S	8866	Jackie DR	1250J3
		75	186165	4	N13S	8865	Jackie DR	1250J3
		76	311285	4	N13S	8855	Jackie DR	1250J3
	65080	77	186805	4	N13S	8789	ROBLES DR	1250J3
	65081	78	311726	4	N13S	8781	ROBLES DR	1250J3
		79	311775	4	N13S	8773	ROBLES DR	1250J3
		80	187006	4	N13S	8784	ROBLES DR	1250J3
		81	187109	4	N13S	8776	ROBLES DR	1250J3
82		311834	4	N13S	8767	ROBLES DR	1250J3	
83		311901	4	N13S	8761	ROBLES DR	1250J3	
65082	84	311961	4	N13S	8755	ROBLES DR	1250J3	
	85	187207	4	N13S	8766	ROBLES DR	1250J3	
	86	312047	4	N13S	8749	ROBLES DR	1250J3	
	87	312079	4	N13S	8756	ROBLES DR	1250J3	
	88	187350	4	N13S	8743	ROBLES DR	1250J3	
	89	187410	4	N13S	8750	ROBLES DR	1250J3	
	90	312199	4	N13S	8737	ROBLES DR	1250J3	
	91	187524	4	N13S	8742	ROBLES DR	1250J3	
	92	312263	4	N13S	8731	ROBLES DR	1250J3	
	93	187622	4	N13S	8734	ROBLES DR	1250J3	
	94	312340	4	N13S	8725	ROBLES DR	1250J3	
	95	187708	4	N13S	8726	ROBLES DR	1250J3	
	65083	96	312414	4	N13S	8719	ROBLES DR	1250J3
97		312449	4	N13S	8718	ROBLES DR	1250J3	
98		187834	4	N13S	8711	ROBLES DR	1250J3	
99		312525	4	N13S	8710	ROBLES DR	1250J3	
100		312561	4	N13S	8705	ROBLES DR	1250J3	
101		312602	4	N13S	8704	ROBLES DR	1250J3	
102		312632	4	N13S	8695	ROBLES DR	1250J3	
103		312667	4	N13S	8698	ROBLES DR	1250J3	
104		312696	4	N13S	8687	ROBLES DR	1250J3	
105		312737	4	N13S	8692	ROBLES DR	1250J3	
		106	188253	4	O13S	8677	ROBLES DR	1251A3

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
3	65174	107	312797	4	O13S	8686	ROBLES DR	1251A3
		108	312880	4	O13S	8667	ROBLES DR	1251A3
		109	188449	4	O13S	8676	ROBLES DR	1251A3
		110	188472	4	O13S	8557	ROBLES DR	1251A3
		111	188541	4	O13S	8670	ROBLES DR	1251A3
		112	313000	4	O13S	8647	ROBLES DR	1251A3
		113	313056	4	O13S	8662	ROBLES DR	1251A3
		114	188364	4	O13S	8682	ROBLES DR	1251A3
	66221	115	188697	4	O13S	8656	ROBLES DR / Private	1251A3
		116	313084	4	O13S	8637	ROBLES DR / Private	1251A3
		117	313170	4	O13S	8646	ROBLES DR / Private	1251A3
		118	-	4	O13S	8634	ROBLES DR / Private	1251A3
		119	-	4	O13S	8622	ROBLES DR / Private	1251A3
	66223	120	375049	4	O13S	8781	ROBLES WY	1251A3
		121	189182	4	O13S	8784	ROBLES WY	1251A3
		122	189298	4	O13S	8785	ROBLES WY	1251A3
		123	313450	4	O13S	8798	ROBLES WY	1251A3
		124	313537	4	O13S	8789	ROBLES WY	1251A3
	66224	125	313596	4	O13S	8775	ROBLES WY	1251A3
		126	313503	4	O13S	8774	ROBLES WY	1251A3
		127	313630	4	O13S	8769	ROBLES WY	1251A3
		128	313528	4	O13S	8764	ROBLES WY	1251A3
		129	189451	4	O13S	8763	ROBLES WY	1251A3
		130	189536	4	O13S	8752	ROBLES WY	1251A3
		131	189529	4	O13S	8751	ROBLES WY	1251A3
		132	189461	4	O13S	8757	ROBLES WY	1251A3
	66220	133	313201	4	O13S	8837	ROBLES WY	1251A3
		134	313285	4	O13S	8827	ROBLES WY	1251A3
		135	188929	4	O13S	8834	ROBLES WY	1251A3
		136	313369	4	O13S	8817	ROBLES WY	1251A3
137		313420	4	O13S	8797	ROBLES WY	1251A3	
138		189184	4	O13S	8793	ROBLES WY	1251A3	
66219	139	188685	4	O13S	8857	ROBLES WY	1251A3	
	140	188757	4	O13S	8854	ROBLES WY	1251A3	
	141	313140	4	O13S	8847	ROBLES WY	1251A3	
	142	188827	4	O13S	8844	ROBLES WY	1251A3	
66256	143	189695	4	O13S	8838	Mulvaney DR	1251A3	
	144	189810	4	O13S	8845	Mulvaney DR	1251A3	
	145	313797	4	O13S	8852	Mulvaney DR	1251A3	
	146	189784	4	O13S	8865	Mulvaney DR	1251A3	
	147	189649	4	O13S	8866	Mulvaney DR	1251A3	
66260	148	189723	4	O13S	8824	Mulvaney DR	1251A3	
	149	313947	4	O13S	8825	Mulvaney DR	1251A3	
	150	189749	4	O13S	8810	Mulvaney DR	1251A3	
	151	313966	4	O13S	8795	Mulvaney DR	1251A3	
	152	189774	4	O13S	8796	Mulvaney DR	1251A3	
	153	313991	4	O13S	8781	Mulvaney DR	1251A3	
	154	313901	4	O13S	8782	Mulvaney DR	1251A3	
66261	155	314051	4	O13S	8726	Mulvaney DR	1251A3	
	156	314131	4	O13S	8725	Mulvaney DR	1251A3	
	157	314023	4	O13S	8740	Mulvaney DR	1251A3	
	158	190052	4	O13S	8741	Mulvaney DR	1251A3	
	159	189924	4	O13S	8754	Mulvaney DR	1251A3	

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
4		160	314064	4	O13S	8753	Mulvaney DR	1251A3
		161	189979	4	O13S	8767	Mulvaney DR	1251A3
		162	313929	4	O13S	8768	Mulvaney DR	1251A3
	65197	163	188871	4	N13S	8627	Jackie DR	1250J3
		164	188690	4	N13S	8630	Jackie DR	1250J3
		165	188677	4	N13S	8638	Jackie DR	1250J3
		166	313155	4	N13S	8635	Jackie DR	1250J3
		167	188609	4	N13S	8646	Jackie DR	1250J3
		168	313120	4	N13S	8643	Jackie DR	1250J3
		169	188567	4	N13S	8652	Jackie DR	1250J3
		170	313075	4	N13S	8651	Jackie DR	1250J3
		171	313032	4	N13S	8659	Jackie DR	1250J3
		172	188440	4	N13S	8660	Jackie DR	1250J3
		173	312990	4	N13S	8667	Jackie DR	1250J3
		65175	174	188305	4	N13S	8669	Dent DR
	175		188434	4	N13S	8662	Dent DR	1250J3
	176		312853	4	N13S	8661	Dent DR	1250J3
	177		188488	4	N13S	8656	Dent DR	1250J3
	178		312906	4	N13S	8655	Dent DR	1250J3
	65176	179	188528	4	N13S	8650	Dent DR	1250J3
		180	312976	4	N13S	8649	Dent DR	1250J3
		181	313030	4	N13S	8643	Dent DR	1250J3
		182	313054	4	N13S	8637	Dent DR	1250J3
	65177	183	189050	4	N13S	8667	Dent CT	1250J3
		184	188965	4	N13S	8668	Dent CT	1250J3
		185	188951	4	N13S	8702	Dent CT	1250J3
		186	313237	4	N13S	8718	Dent CT	1250J3
187		189012	4	N13S	8717	Dent CT	1250J3	
188		189060	4	N13S	8701	Dent CT	1250J3	
65178	189	313199	4	N13S	8732	Dent CT	1250J3	
	190	313270	4	N13S	8733	Dent CT	1250J3	
	191	188887	4	N13S	8745	Dent CT	1250J3	
	192	313141	4	N13S	8746	Dent CT	1250J3	
	193	188820	4	N13S	8757	Dent CT	1250J3	
	194	313118	4	N13S	8758	Dent CT	1250J3	
65179	195	188681	4	N13S	8631	Dent DR	1251A3	
	196	313156	4	N13S	8623	Dent DR	1251A3	
	197	313231	4	N13S	8615	Dent DR	1251A3	
	198	313295	4	N13S	8618	Dent DR	1251A3	
	199	313358	4	N13S	8604	Dent DR	1251A3	
	200	188976	4	N13S	8605	Dent DR	1251A3	
66283	201	317980	4	O14S	541	Jaffe CT	1251A4	
66289	202	318745	4	O14S	6520	Lake Ashmere Ct	1251A4	
	203	318744	4	O14S	6562	Lake Ashmere Ct	1251A4	
	204	196224	4	O14S	6572	Lake Ashmere Ct	1251A4	
	205	196177	4	O14S	6571	Lake Ashmere Ct	1251A4	
	206	196181	4	O14S	6561	Lake Ashmere Ct	1251A4	
	207	318606	4	O14S	6551	Lake Ashmere Ct	1251A4	
66290	208	196210	4	O14S	6541	Lake Ashmere Ct	1251A4	
	209	318647	4	O14S	6531	Lake Ashmere Ct	1251A4	
	210	196327	4	O14S	6521	Lake Ashmere Ct	1251A4	
	211	318830	4	O14S	6514	Lake Ashmere Ct	1251A4	
	212	1142142	4	O14S	6511	Lake Ashmere Ct	1251A4	



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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
5	66294	213	319107	4	O14S	8847	Lake Ashmere DR	1251A5
		214	319025	4	O14S	8848	Lake Ashmere DR	1251A5
		215	196702	4	O14S	8852	Lake Ashmere DR	1251A5
		216	319034	4	O14S	8853	Lake Ashmere DR	1251A5
		217	196750	4	O14S	8859	Lake Ashmere DR	1251A5
	66292	218	319058	4	O14S	6493	East Lake DR	1251A5
		219	196935	4	O14S	6492	East Lake DR	1251A5
		220	197100	4	O14S	6487	East Lake DR	1251A5
		221	319218	4	O14S	6486	East Lake DR	1251A5
		222	-	4	O14S	6481	East Lake DR	1251A5
		223	319361	4	O14S	6482	East Lake DR	1251A5
	66293	224	197360	4	O14S	6475	East Lake DR	1251A5
		225	197413	4	O14S	6476	East Lake DR	1251A5
		226	197566	4	O14S	6470	East Lake DR	1251A5
		227	197540	4	O14S	6469	East Lake DR	1251A5
		228	197653	4	O14S	6463	East Lake DR	1251A5
		229	197675	4	O14S	6464	East Lake DR	1251A5
		230	197758	4	O14S	6457	East Lake DR	1251A5
		231	197805	4	O14S	6458	East Lake DR	1251A5
		232	197898	4	O14S	6451	East Lake DR	1251A5
		233	197929	4	O14S	6452	East Lake DR	1251A5
	66308	234	198008	4	O14S	6445	East Lake DR	1251A5
		235	198053	4	O14S	6446	East Lake DR	1251A5
		236	320302	4	O14S	6421	East Lake DR	1251A5
		237	320338	4	O14S	6422	East Lake DR	1251A5
238		198798	4	O14S	6415	East Lake DR	1251A5	
239		320469	4	O14S	6416	East Lake DR	1251A5	
240		320602	4	O14S	6410	East Lake DR	1251A5	
241		198951	4	O14S	6411	East Lake DR	1251A5	
242		199107	4	O14S	6407	East Lake DR	1251A5	
243		320700	4	O14S	6406	East Lake DR	1251A5	
244		320806	4	O14S	6402	East Lake DR	1251A5	
66307		245	199491	4	O14S	6399	East Lake DR	1251A5
		246	199534	4	O14S	6398	East Lake DR	1251A5
		247	321041	4	O14S	6393	East Lake DR	1251A5
		248	199697	4	O14S	6392	East Lake DR	1251A5
		249	321155	4	O14S	6387	East Lake DR	1251A5
	250	199842	4	O14S	6386	East Lake DR	1251A5	
	251	321288	4	O14S	6381	East Lake DR	1251A5	
	252	321310	4	O14S	6380	East Lake DR	1251A5	
	253	321399	4	O14S	6375	East Lake DR	1251A5	
66327	254	200082	4	O14S	6374	East Lake DR	1251A5	
	255	321539	4	O14S	6369	East Lake DR	1251A5	
	256	200284	4	O14S	6368	East Lake DR	1251A5	
	257	200383	4	O14S	6363	East Lake DR	1251A5	
	258	321648	4	O14S	6362	East Lake DR	1251A5	
	259	321740	4	O14S	6357	East Lake DR	1251A5	
	260	200559	4	O14S	6356	East Lake DR	1251A5	
	261	321867	4	O14S	6351	East Lake DR	1251A5	
	262	321897	4	O14S	6350	East Lake DR	1251A5	
	263	200741	4	O14S	6345	East Lake DR	1251A5	
	264	200787	4	O14S	6344	East Lake DR	1251A5	
		265	200883	4	O15S	6339	East Lake DR	1251A5

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<b>Map Sheet Number</b>	<b>FSN Of Sewer main</b>	<b>Lateral NO.</b>	<b>Lateral FSN</b>	<b>Lateral Size (Inch)</b>	<b>Field Book</b>	<b>Street NO.</b>	<b>Street Name</b>	<b>Thomas Bro</b>
6	66328	266	322119	4	O15S	6338	East Lake DR	1251A5
		267	322174	4	O15S	6333	East Lake DR	1251A5
		268	322206	4	O15S	6332	East Lake DR	1251A5
		269	322297	4	O15S	6327	East Lake DR	1251A5
		270	322324	4	O15S	6326	East Lake DR	1251A5
		271	201365	4	O15S	6321	East Lake DR	1251A5
		272	322451	4	O15S	6320	East Lake DR	1251A5
	66329	273	322540	4	O15S	6315	East Lake DR	1251A5
		274	201577	4	O15S	6314	East Lake DR	1251A5
		275	322687	4	O15S	6307	East Lake DR	1251A5
		276	322703	4	O15S	6308	East Lake DR	1251A5
		277	322848	4	O15S	6302	East Lake DR	1251A5
	66326	278	200002	4	O14S	6368	Lake Apopka PL	1251A5
		279	321372	4	O14S	6365	Lake Apopka PL	1251A5
		280	200124	4	O14S	6362	Lake Apopka PL	1251A5
		281	321478	4	O14S	6359	Lake Apopka PL	1251A5
		282	200283	4	O14S	6356	Lake Apopka PL	1251A5
		283	200305	4	O14S	6353	Lake Apopka PL	1251A5
		284	200357	4	O14S	6350	Lake Apopka PL	1251A5
		285	200394	4	O14S	6347	Lake Apopka PL	1251A5
		286	200473	4	O14S	6342	Lake Apopka PL	1251A5
	287	200521	4	O14S	6341	Lake Apopka PL	1251A5	
	66325	288	321854	4	O15S	6335	Lake Apopka PL	1251A5
		289	200620	4	O15S	6336	Lake Apopka PL	1251A5
		290	321970	4	O15S	6329	Lake Apopka PL	1251A5
		291	200728	4	O15S	6330	Lake Apopka PL	1251A5
		292	322074	4	O15S	6323	Lake Apopka PL	1251A5
		293	200845	4	O15S	6324	Lake Apopka PL	1251A5
		294	322178	4	O15S	6317	Lake Apopka PL	1251A5
		295	201002	4	O15S	6318	Lake Apopka PL	1251A5
		296	322277	4	O15S	6311	Lake Apopka PL	1251A5
297	201318	4	O15S	6305	Lake Apopka PL	1251A5		
66298	66298	298	197734	4	O14S	6475	Lake Mere CT	1251A5
		299	197817	4	O14S	6470	Lake Mere CT	1251A5
		300	197793	4	O14S	6469	Lake Mere CT	1251A5
		301	319857	4	O14S	6464	Lake Mere CT	1251A5
		302	197926	4	O14S	6463	Lake Mere CT	1251A5
		303	319940	4	O14S	6454	Lake Mere CT	1251A5
		304	319933	4	O14S	6457	Lake Mere CT	1251A5
	66302	305	320041	4	O14S	6451	Lake Mere CT	1251A5
		306	320059	4	O14S	6448	Lake Mere CT	1251A5
		307	198347	4	O14S	6445	Lake Mere CT	1251A5
		308	320173	4	O14S	6442	Lake Mere CT	1251A5
		309	320233	4	O14S	6439	Lake Mere CT	1251A5
		310	198549	4	O14S	6436	Lake Mere CT	1251A5
		311	320341	4	O14S	6433	Lake Mere CT	1251A5
		312	198700	4	O14S	6430	Lake Mere CT	1251A5
66304	313	198812	4	O14S	6427	Lake Mere CT	1251A5	
	314	198846	4	O14S	6424	Lake Mere CT	1251A5	
	315	320563	4	O14S	6421	Lake Mere CT	1251A5	
	316	320670	4	O14S	6413	Lake Mere CT	1251A5	
	317	199062	4	O14S	6116	Lake Mere CT	1251A5	
	318	320754	4	O14S	6406	Lake Mere CT	1251A5	

**Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Lateral Spreadsheet**

Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro	
7	66305	319	199515	4	O14S	6389	Lake Apopka PL	1251A5	
		320	199592	4	O14S	6390	Lake Apopka PL	1251A5	
		321	321071	4	O14S	6383	Lake Apopka PL	1251A5	
		322	321118	4	O14S	6384	Lake Apopka PL	1251A5	
		323	321158	4	O14S	6377	Lake Apopka PL	1251A5	
		324	199865	4	O14S	6374	Lake Apopka PL	1251A5	
			325	321256	4	O14S	6371	Lake Apopka PL	1251A5
	66303		326	320603	4	O14S	6423	Lake Apopka PL	1251A5
			327	199038	4	O14S	6422	Lake Apopka PL	1251A5
			328	320730	4	O14S	6416	Lake Apopka PL	1251A5
			329	320824	4	O14S	6410	Lake Apopka PL	1251A5
			330	199458	4	O14S	6404	Lake Apopka PL	1251A5
	66301		331	198165	4	O14S	6457	Lake Apopka PL	1251A5
			332	320002	4	O14S	6458	Lake Apopka PL	1251A5
			333	198322	4	O14S	6451	Lake Apopka PL	1251A5
			334	198317	4	O14S	6452	Lake Apopka PL	1251A5
			335	320220	4	O14S	6445	Lake Apopka PL	1251A5
			336	198458	4	O14S	6446	Lake Apopka PL	1251A5
			337	198596	4	O14S	6439	Lake Apopka PL	1251A5
			338	320296	4	O14S	6440	Lake Apopka PL	1251A5
			339	198777	4	O14S	6431	Lake Apopka PL	1251A5
			340	320384	4	O14S	6434	Lake Apopka PL	1251A5
		341	320519	4	O14S	6428	Lake Apopka PL	1251A5	
	66300		342	197673	4	O14S	6479	Lake Apopka PL	1251A5
			343	197674	4	O14S	6482	Lake Apopka PL	1251A5
			344	197797	4	O14S	6473	Lake Apopka PL	1251A5
			345	197753	4	O14S	6476	Lake Apopka PL	1251A5
			346	197891	4	O14S	6470	Lake Apopka PL	1251A5
			347	319836	4	O14S	6469	Lake Apopka PL	1251A5
			348	319889	4	O14S	6464	Lake Apopka PL	1251A5
			349	319918	4	O14S	6463	Lake Apopka PL	1251A5
	8	65465	350	198211	4	N14S	8708	Lake Ashmere DR	1250J5
			351	198388	4	N14S	8709	Lake Ashmere DR	1250J5
			352	198134	4	N14S	8714	Lake Ashmere DR	1250J5
353			198038	4	N14S	8720	Lake Ashmere DR	1250J5	
354			197933	4	N14S	8726	Lake Ashmere DR	1250J5	
355			197855	4	N14S	8732	Lake Ashmere DR	1250J5	
65474			356	197702	4	N14S	8738	Lake Ashmere DR	1251A5
			357	319723	4	N14S	8739	Lake Ashmere DR	1251A5
			358	197579	4	N14S	8744	Lake Ashmere DR	1251A5
			359	319617	4	N14S	8747	Lake Ashmere DR	1251A5
			360	197475	4	N14S	8750	Lake Ashmere DR	1251A5
65475			361	319571	4	N14S	8755	Lake Ashmere DR	1251A5
			362	197418	4	N14S	8756	Lake Ashmere DR	1251A5
			363	197353	4	N14S	8762	Lake Ashmere DR	1251A5
			364	197521	4	N14S	8765	Lake Ashmere DR	1251A5
			365	197289	4	N14S	8768	Lake Ashmere DR	1251A5
66299			366	197482	4	O14S	8773	Lake Ashmere DR	1251A5
			367	197292	4	O14S	8774	Lake Ashmere DR	1251A5
			368	197498	4	O14S	8779	Lake Ashmere DR	1251A5
			369	197304	4	O14S	8780	Lake Ashmere DR	1251A5
		370	197507	4	O14S	8785	Lake Ashmere DR	1251A5	
		371	-	4	O14S	8786	Lake Ashmere DR	1251A5	

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro	
9		372	5207157	4	O14S	6490	Lake Ashmere DR	1251A5	
		373	197331	4	O14S	8792	Lake Ashmere DR	1251A5	
		374	197343	4	O14S	8798	Lake Ashmere DR	1251A5	
	66296	375	319406	4	O14S	8808	Lake Ashmere DR	1251A5	
		376	197508	4	O14S	6489	Lake Ashmere DR	1251A5	
		377	197260	4	O14S	8816	Lake Ashmere DR	1251A5	
	65473	378	198050	4	N14S	8701	Lake Athabaska WY	1251A5	
		379	198125	4	N14S	8709	Lake Athabaska WY	1251A5	
	65472	380	197957	4	N14S	8718	Lake Athabaska WY	1251A6	
		381	197984	4	N14S	8728	Lake Athabaska WY	1251A6	
	9	65471	382	197983	4	N14S	8738	Lake Athabaska PL	1251A5
			383	198022	4	N14S	6479	Lake Athabaska PL	1251A5
384			198164	4	N14S	6473	Lake Athabaska PL	1251A5	
385			198145	4	N14S	6474	Lake Athabaska PL	1251A5	
386			320136	4	N14S	6467	Lake Athabaska PL	1251A5	
387			320102	4	N14S	6468	Lake Athabaska PL	1251A5	
388			198448	4	N14S	6462	Lake Athabaska PL	1251A5	
389			198506	4	N14S	6461	Lake Athabaska PL	1251A5	
390			198585	4	N14S	6456	Lake Athabaska PL	1251A5	
391			198674	4	N14S	6455	Lake Athabaska PL	1251A5	
392		320424	4	N14S	6450	Lake Athabaska PL	1251A5		
65470		393	320509	4	N14S	6447	Lake Athabaska PL	1251A5	
		394	198925	4	N14S	6444	Lake Athabaska PL	1251A5	
		395	320646	4	N14S	6438	Lake Athabaska PL	1251A5	
		396	199059	4	N14S	6439	Lake Athabaska PL	1251A5	
		397	199221	4	N14S	6431	Lake Athabaska PL	1251A5	
		398	320755	4	N14S	6432	Lake Athabaska PL	1251A5	
		399	320850	4	N14S	6426	Lake Athabaska PL	1251A5	
66306		400	199410	4	O14S	6423	Lake Athabaska PL	1251A5	
		401	320985	4	O14S	6420	Lake Athabaska PL	1251A5	
		402	199537	4	O14S	6417	Lake Athabaska PL	1251A5	
		403	199688	4	O14S	6414	Lake Athabaska PL	1251A5	
		404	321063	4	O14S	6411	Lake Athabaska PL	1251A5	
		405	199767	4	O14S	6408	Lake Athabaska PL	1251A5	
		406	199787	4	O14S	6405	Lake Athabaska PL	1251A5	
		407	321284	4	O14S	6402	Lake Athabaska PL	1251A5	
		408	199921	4	O14S	6399	Lake Athabaska PL	1251A5	
		409	321367	4	O14S	6398	Lake Athabaska PL	1251A5	
410		200019	4	O14S	6393	Lake Athabaska PL	1251A5		
66314		411	321454	4	O14S	6387	Lake Athabaska PL	1251A5	
		412	321542	4	O14S	6386	Lake Athabaska PL	1251A5	
		413	200350	4	O14S	6375	Lake Athabaska PL	1251A5	
	414	200363	4	O14S	6378	Lake Athabaska PL	1251A5		
	415	321570	4	O14S	6381	Lake Athabaska PL	1251A5		
	416	321710	4	O14S	6370	Lake Athabaska PL	1251A5		
	417	200458	4	O14S	6369	Lake Athabaska PL	1251A5		
	418	321473	4	O14S	6392	Lake Athabaska PL	1251A5		
65769	419	200366	4	N15S	6383	Lake Arrowhead DR	1251A5		
	420	200518	4	N15S	6365	Lake Arrowhead DR	1251A5		
	421	200641	4	N15S	6353	Lake Arrowhead DR	1251A5		
	422	321669	4	N15S	6376	Lake Arrowhead DR	1251A5		
	423	200642	4	N15S	6352	Lake Arrowhead DR	1251A5		
		424	321228	4	N14S	6413	Lake Arrowhead DR	1251A5	

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro	
10	65768	425	199978	4	N14S	6412	Lake Arrowhead DR	1251A5	
		426	321334	4	N14S	6409	Lake Arrowhead DR	1251A5	
		427	200126	4	N14S	6406	Lake Arrowhead DR	1251A5	
		428	200133	4	N14S	6405	Lake Arrowhead DR	1251A5	
		429	200294	4	N14S	6398	Lake Arrowhead DR	1251A5	
		430	321574	4	N14S	6399	Lake Arrowhead DR	1251A5	
	65469	431	199316	4	N14S	6429	Lake Arrowhead DR	1250J5	
		432	320894	4	N14S	6428	Lake Arrowhead DR	1250J5	
		433	320319	4	N14S	6425	Lake Arrowhead DR	1250J5	
		434	320999	4	N14S	6424	Lake Arrowhead DR	1250J5	
		435	199622	4	N14S	6421	Lake Arrowhead DR	1250J5	
		436	321101	4	N14S	6420	Lake Arrowhead DR	1250J5	
		437	321126	4	N14S	6417	Lake Arrowhead DR	1250J5	
	65468	438	199839	4	N14S	6416	Lake Arrowhead DR	1250J5	
		439	198849	4	N14S	8692	Lake Arrowhead DR	1250J5	
		440	198825	4	N14S	6445	Lake Arrowhead DR	1250J5	
		441	320613	4	N14S	6440	Lake Arrowhead DR	1250J5	
		442	198926	4	N14S	6441	Lake Arrowhead DR	1250J5	
		443	320686	4	N14S	6436	Lake Arrowhead DR	1250J5	
		444	199067	4	N14S	6437	Lake Arrowhead DR	1250J5	
	65467	445	320779	4	N14S	6432	Lake Arrowhead DR	1250J5	
		446	199183	4	N14S	6433	Lake Arrowhead DR	1250J5	
	65466	447	198696	4	N14S	6449	Lake Arrowhead DR	1250J5	
		448	198394	4	N14S	8706	Lake Ashmere DR	1250J5	
	10	66319	449	198464	4	N14S	8702	Lake Ashmere DR	1250J5
			450	201144	4	O15S	8732	Lake Angela DR	1251A5
		66318	451	-	4	O15S	8735	Lake Angela DR	1251A5
			452	322161	4	O15S	8722	Lake Angela DR	1251A5
66316		453	200822	4	N15S	8708	Lake Angela DR	1251A5	
66315		454	200563	4	O15S	6363	Lake Athabaska PL	1251A5	
		455	321877	4	O15S	6360	Lake Athabaska PL	1251A5	
		456	200720	4	O15S	6357	Lake Athabaska PL	1251A5	
		457	200820	4	O15S	6352	Lake Athabaska PL	1251A5	
66317		458	201052	4	O15S	6344	Lake Athabaska PL	1251A5	
		459	322336	4	O15S	6338	Lake Athabaska PL	1251A5	
		460	322380	4	O15S	6345	Lake Athabaska PL	1251A5	
		461	322427	4	O15S	6332	Lake Athabaska PL	1251A5	
		462	201446	4	O15S	6333	Lake Athabaska PL	1251A5	
		463	322502	4	O15S	6326	Lake Athabaska PL	1251A5	
		464	201598	4	O15S	6325	Lake Athabaska PL	1251A5	
66345		465	322506	4	O15S	6326	Lake Athabaska PL	1251A5	
		466	322667	4	O15S	6319	Lake Athabaska PL	1251A5	
		467	201672	4	O15S	6320	Lake Athabaska PL	1251A5	
		468	201871	4	O15S	6315	Lake Athabaska PL	1251A5	
		469	201819	4	O15S	6314	Lake Athabaska PL	1251A5	
		470	322851	4	O15S	6309	Lake Athabaska PL	1251A5	
		471	201962	4	O15S	6308	Lake Athabaska PL	1251A5	
		472	322931	4	O15S	6301	Lake Athabaska PL	1251A5	
		473	322909	4	O15S	6302	Lake Athabaska PL	1251A5	
		474	202233	4	O15S	6295	Lake Athabaska PL	1251A5	
66345		475	202225	4	O15S	6296	Lake Athabaska PL	1251A5	
		476	202377	4	N15S	6285	Lake Athabaska PL	1251A6	
	477	323108	4	N15S	6286	Lake Athabaska PL	1251A6		

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
11	65771	478	202530	4	N15S	6275	Lake Athabaska PL	1251A6
		479	202532	4	N15S	6276	Lake Athabaska PL	1251A6
		480	323298	4	N15S	6267	Lake Athabaska PL	1251A6
		481	202662	4	N15S	6268	Lake Athabaska PL	1251A6
		482	202799	4	N15S	6259	Lake Athabaska PL	1251A6
		483	323379	4	N15S	6260	Lake Athabaska PL	1251A6
		484	323484	4	N15S	6253	Lake Athabaska PL	1251A6
		485	323477	4	N15S	6252	Lake Athabaska PL	1251A6
11	66339	486	202260	4	O15S	6290	South Lake CT	1251A6
		487	202363	4	O15S	6284	South Lake CT	1251A6
		488	323144	4	O15S	6285	South Lake CT	1251A6
		489	202520	4	O15S	6278	South Lake CT	1251A6
		490	323211	4	O15S	6277	South Lake CT	1251A6
		491	323301	4	O15S	6271	South Lake CT	1251A6
		492	202637	4	O15S	6272	South Lake CT	1251A6
		493	202803	4	O15S	6265	South Lake CT	1251A6
		494	202764	4	O15S	6266	South Lake CT	1251A6
		495	202961	4	O15S	6257	South Lake CT	1251A6
		496	202921	4	O15S	6258	South Lake CT	1251A6
		497	203083	4	O15S	6251	South Lake CT	1251A6
498	203061	4	O15S	6252	South Lake CT	1251A6		
11	66338	499	203233	4	O15S	6245	South Lake CT	1251A6
		500	203205	4	O15S	6246	South Lake CT	1251A6
		501	323783	4	O15S	6239	South Lake CT	1251A6
		502	323737	4	O15S	6240	South Lake CT	1251A6
		503	203482	4	O15S	6233	South Lake CT	1251A6
		504	203439	4	O15S	6234	South Lake CT	1251A6
		505	323976	4	O15S	6228	South Lake CT	1251A6
11	66336	506	324481	4	O15S	8801	Blue Lake DR	1251A6
		507	324475	4	O15S	8789	Blue Lake DR	1251A6
		508	204115	4	O15S	8796	Blue Lake DR	1251A6
		509	204113	4	O15S	8788	Blue Lake DR	1251A6
		510	324474	4	O15S	8781	Blue Lake DR	1251A6
		511	204109	4	O15S	8780	Blue Lake DR	1251A6
11	66344	512	324472	4	O15S	8775	Blue Lake DR	1251A6
		513	204107	4	O15S	8772	Blue Lake DR	1251A6
		514	324470	4	O15S	8767	Blue Lake DR	1251A6
		515	204103	4	O15S	8766	Blue Lake DR	1251A6
		516	324473	4	O15S	8761	Blue Lake DR	1251A6
11	66341	517	323704	4	O15S	6227	Lake Apopka PL	1251A6
		518	203252	4	O15S	6226	Lake Apopka PL	1251A6
		519	203346	4	O15S	6221	Lake Apopka PL	1251A6
		520	323840	4	O15S	6220	Lake Apopka PL	1251A6
		521	203574	4	O15S	6215	Lake Apopka PL	1251A6
		522	203552	4	O15S	6214	Lake Apopka PL	1251A6
		523	203660	4	O15S	6209	Lake Apopka PL	1251A6
		524	203713	4	O15S	6208	Lake Apopka PL	1251A6
11	66340	525	323317	4	O15S	6251	Lake Apopka PL	1251A6
		526	323332	4	O15S	6250	Lake Apopka PL	1251A6
		527	202849	4	O15S	6245	Lake Apopka PL	1251A6
		528	202861	4	O15S	6244	Lake Apopka PL	1251A6
		529	323495	4	O15S	6239	Lake Apopka PL	1251A6
		530	202990	4	O15S	6238	Lake Apopka PL	1251A6

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
12		531	323596	4	O15S	6233	Lake Apopka PL	1251A6
		532	203074	4	O15S	6232	Lake Apopka PL	1251A6
	66321	533	201992	4	O15S	6283	Lake Apopka PL	1251A6
		534	202023	4	O15S	6280	Lake Apopka PL	1251A6
		535	322912	4	O15S	6275	Lake Apopka PL	1251A6
		536	322938	4	O15S	6274	Lake Apopka PL	1251A6
		537	202254	4	O15S	6269	Lake Apopka PL	1251A6
		538	323037	4	O15S	6268	Lake Apopka PL	1251A6
		539	323138	4	O15S	6263	Lake Apopka PL	1251A6
		540	202442	4	O15S	6262	Lake Apopka PL	1251A6
		541	202576	4	O15S	6257	Lake Apopka PL	1251A6
		542	202509	4	O15S	6256	Lake Apopka PL	1251A6
	66320	543	322767	4	O15S	6291	Lake Apopka PL	1251A5
		544	322686	4	O15S	8745	Lake Apopka PL	1251A5
		545	322755	4	O15S	6286	Lake Apopka PL	1251A5
12	65763	546	202698	4	N15S	6264	Lake Arrowhead DR	1251A5
		547	202725	4	N15S	6265	Lake Arrowhead DR	1251A5
		548	202516	4	N15S	6272	Lake Arrowhead DR	1251A5
		549	323269	4	N15S	6273	Lake Arrowhead DR	1251A5
		550	323174	4	N15S	6280	Lake Arrowhead DR	1251A5
		551	323112	4	N15S	6281	Lake Arrowhead DR	1251A5
		552	202205	4	N15S	6288	Lake Arrowhead DR	1251A5
		553	202264	4	N15S	6289	Lake Arrowhead DR	1251A5
		554	202174	4	N15S	6296	Lake Arrowhead DR	1251A5
		555	202216	4	N15S	6297	Lake Arrowhead DR	1251A5
	65762	556	201964	4	N15S	6314	Arms Lake AV	1251A5
		557	322744	4	N15S	6315	Arms Lake AV	1251A5
	65761	558	322710	4	N15S	6324	Arms Lake AV	1250J5
		559	201730	4	N15S	6331	Arms Lake AV	1250J5
		560	322599	4	N15S	6334	Arms Lake AV	1250J5
		561	322520	4	N15S	6343	Arms Lake AV	1250J5
		562	322563	4	N15S	6344	Arms Lake AV	1250J5
		563	201278	4	N15S	6353	Arms Lake AV	1250J5
		564	201369	4	N15S	6354	Arms Lake AV	1250J5
	65760	565	-	4	N15S	6364	Arms Lake AV	1250J5
		566	201126	4	N15S	6363	Arms Lake AV	1250J5
		567	201050	4	N15S	6374	Arms Lake AV	1250J5
		568	201018	4	N15S	6373	Arms Lake AV	1250J5
		569	322092	4	N15S	6384	Arms Lake AV	1250J5
	65767	570	200840	4	N15S	8645	Lake Angela DR	1250J5
	65766	571	200844	4	N15S	8655	Lake Angela DR	1251A5
		572	200866	4	N15S	8665	Lake Angela DR	1251A5
		573	200877	4	N15S	8675	Lake Angela DR	1251A5
	65764	574	202049	4	N15S	6301	Lake Arrowhead DR	1251A5
		575	322787	4	N15S	6307	Lake Arrowhead DR	1251A5
		576	201816	4	N15S	6315	Lake Arrowhead DR	1251A5
		577	322597	4	N15S	6320	Lake Arrowhead DR	1251A5
		578	201583	4	N15S	6321	Lake Arrowhead DR	1251A5
579		322447	4	N15S	6327	Lake Arrowhead DR	1251A5	
580		201482	4	N15S	6326	Lake Arrowhead DR	1251A5	
65765	581	201165	4	N15S	6332	Lake Arrowhead DR	1251A5	
	582	201184	4	N15S	6333	Lake Arrowhead DR	1251A5	
	583	201042	4	N15S	6339	Lake Arrowhead DR	1251A5	

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
		584	200909	4	N15S	6345	Lake Arrowhead DR	1251A5
		585	322082	4	N15S	6346	Lake Arrowhead DR	1251A5
		586	322177	4	N15S	6340	Lake Arrowhead DR	1251A5
13	65733	587	324456	4	N15S	8661	Blue Lake DR	1250J6
		588	324455	4	N15S	8651	Blue Lake DR	1250J6
	65734	589	324460	4	N15S	8691	Blue Lake DR	1250J6
		590	204244	4	N15S	8681	Blue Lake DR	1250J6
		591	324461	4	N15S	8671	Blue Lake DR	1250J6
	65740	592	323902	4	N15S	6219	Lake Ariana AV	1250J6
		593	203477	4	N15S	6220	Lake Ariana AV	1250J6
		594	323968	4	N15S	6215	Lake Ariana AV	1250J6
		595	203600	4	N15S	6216	Lake Ariana AV	1250J6
		596	324068	4	N15S	6211	Lake Ariana AV	1250J6
		597	203758	4	N15S	6212	Lake Ariana AV	1250J6
		598	203857	4	N15S	6207	Lake Ariana AV	1250J6
		599	203838	4	N15S	6208	Lake Ariana AV	1250J6
		600	324265	4	N15S	6201	Lake Ariana AV	1250J6
		601	203986	4	N15S	6202	Lake Ariana AV	1250J6
	65741	602	202860	4	N15S	6241	Lake Ariana AV	1250J6
		603	323466	4	N15S	6242	Lake Ariana AV	1250J6
		604	203021	4	N15S	6236	Lake Ariana AV	1250J6
		605	203097	4	N15S	6235	Lake Ariana AV	1250J6
		606	203218	4	N15S	6230	Lake Ariana AV	1250J6
		607	323739	4	N15S	6224	Lake Ariana AV	1250J6
		608	323652	4	N15S	6229	Lake Ariana AV	1250J6
		609	323780	4	N15S	6223	Lake Ariana AV	1250J6
	65739	610	323909	4	N15S	6227	Lake Arrowhead DR	1251A6
		611	203485	4	N15S	6226	Lake Arrowhead DR	1251A6
		612	203599	4	N15S	6221	Lake Arrowhead DR	1251A6
		613	203575	4	N15S	6220	Lake Arrowhead DR	1251A6
		614	324044	4	N15S	6215	Lake Arrowhead DR	1251A6
		615	203777	4	N15S	6214	Lake Arrowhead DR	1251A6
		616	203839	4	N15S	6207	Lake Arrowhead DR	1251A6
617		203884	4	N15S	6208	Lake Arrowhead DR	1251A6	
618		203953	4	N15S	6203	Lake Arrowhead DR	1251A6	
619	324201	4	N15S	6204	Lake Arrowhead DR	1251A6		
65738	620	202863	4	N15S	6257	Lake Arrowhead DR	1251A6	
	621	202823	4	N15S	6256	Lake Arrowhead DR	1251A6	
	622	203039	4	N15S	6251	Lake Arrowhead DR	1251A6	
	623	203029	4	N15S	6250	Lake Arrowhead DR	1251A6	
	624	323639	4	N15S	6245	Lake Arrowhead DR	1251A6	
	625	203064	4	N15S	6244	Lake Arrowhead DR	1251A6	
	626	323742	4	N15S	6239	Lake Arrowhead DR	1251A6	
	627	203250	4	N15S	6238	Lake Arrowhead DR	1251A6	
	628	323782	4	N15S	6233	Lake Arrowhead DR	1251A6	
	629	203303	4	N15S	6232	Lake Arrowhead DR	1251A6	
65742	630	323404	4	N15S	6209	Lake Atlin AV	1250J6	
	631	202646	4	N15S	6222	Lake Atlin AV	1250J6	
65754	632	323323	4	N15S	6248	Lake Ariana AV	1250J5	
	633	202624	4	N15S	6249	Lake Ariana AV	1250J5	
	634	323243	4	N15S	6254	Lake Ariana AV	1250J5	
	635	202431	4	N15S	6255	Lake Ariana AV	1250J5	
	636	202432	4	N15S	6260	Lake Ariana AV	1250J5	



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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
14		637	202308	4	N15S	6261	Lake Ariana AV	1250J5
		638	323050	4	N15S	6266	Lake Ariana AV	1250J5
		639	202118	4	N15S	6267	Lake Ariana AV	1250J5
		640	322928	4	N15S	6272	Lake Ariana AV	1250J5
		641	202032	4	N15S	6273	Lake Ariana AV	1250J5
	65753	642	201998	4	N15S	6278	Lake Ariana AV	1250J5
		643	322771	4	N15S	6279	Lake Ariana AV	1250J5
		644	201841	4	N15S	6284	Lake Ariana AV	1250J5
		645	201731	4	N15S	6285	Lake Ariana AV	1250J5
		646	322594	4	N15S	6291	Lake Ariana AV	1250J5
		647	322664	4	N15S	6290	Lake Ariana AV	1250J5
	65752	648	201519	4	N15S	6298	Lake Ariana AV	1250J5
		649	322445	4	N15S	6297	Lake Ariana AV	1250J5
		650	201263	4	N15S	6302	Lake Ariana AV	1250J5
		651	322278	4	N15S	6301	Lake Ariana AV	1250J5
		652	201097	4	N15S	6308	Lake Ariana AV	1250J5
		653	322141	4	N15S	6309	Lake Ariana AV	1250J5
		654	201000	4	N15S	6314	Lake Ariana AV	1250J5
		655	200915	4	N15S	6315	Lake Ariana AV	1250J5
		656	200849	4	N15S	6320	Lake Ariana AV	1250J5
	657	321991	4	N15S	6321	Lake Ariana AV	1250J5	
	65755	658	202674	4	N15S	6217	Lake Atlin AV	1250J6
		659	202553	4	N15S	6225	Lake Atlin AV	1250J6
	65756	660	202345	4	N15S	6233	Lake Atlin AV	1250J6
		661	323029	4	N15S	6238	Lake Atlin AV	1250J6
		662	323002	4	N15S	6241	Lake Atlin AV	1250J6
	65757	663	322929	4	N15S	6249	Lake Atlin AV	1250J5
		664	202121	4	N15S	6250	Lake Atlin AV	1250J5
		665	201994	4	N15S	6257	Lake Atlin AV	1250J5
		666	322839	4	N15S	6260	Lake Atlin AV	1250J5
		667	322749	4	N15S	6265	Lake Atlin AV	1250J5
		668	201845	4	N15S	6268	Lake Atlin AV	1250J5
669		201738	4	N15S	6273	Lake Atlin AV	1250J5	
670		322631	4	N15S	6276	Lake Atlin AV	1250J5	
671		201565	4	N15S	6279	Lake Atlin AV	1250J5	
672	201503	4	N15S	6280	Lake Atlin AV	1250J5		
65758	673	201399	4	N15S	6285	Lake Atlin AV	1250J5	
	674	201378	4	N15S	6290	Lake Atlin AV	1250J5	
	675	322370	4	N15S	6291	Lake Atlin AV	1250J5	
	676	322368	4	N15S	6298	Lake Atlin AV	1250J5	
	677	201169	4	N15S	6297	Lake Atlin AV	1250J5	
	678	322115	4	N15S	6302	Lake Atlin AV	1250J5	
	679	200824	4	N15S	6312	Lake Atlin AV	1250J5	
65460	680	199335	4	N14S	6447	Lake Atlin AV	1250J5	
	681	199445	4	N14S	6446	Lake Atlin AV	1250J5	
	682	199361	4	N14S	6437	Lake Atlin AV	1250J5	
	683	199524	4	N14S	6438	Lake Atlin AV	1250J5	
	684	199525	4	N14S	6429	Lake Atlin AV	1250J5	
	685	199643	4	N14S	6430	Lake Atlin AV	1250J5	
	686	199550	4	N14S	6421	Lake Atlin AV	1250J5	
	687	321098	4	N14S	6422	Lake Atlin AV	1250J5	
	688	199746	4	N14S	6415	Lake Atlin AV	1250J5	
	689	199812	4	N14S	6414	Lake Atlin AV	1250J5	

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
15		690	321179	4	N14S	6407	Lake Atlin AV	1250J5
		691	321245	4	N14S	6408	Lake Atlin AV	1250J5
	65459	692	199591	4	N14S	0	Lake Ashmere DR	1250J5
		693	199446	4	N14S	8561	Lake Ashmere DR	1250J5
		694	199570	4	N14S	8561	Lake Ashmere DR	1250J5
	65458	695	200058	4	N14S	6402	Lake Atlin AV	1250J5
		696	321424	4	N14S	6390	Lake Atlin AV	1250J5
		697	321521	4	N14S	6380	Lake Atlin AV	1250J5
		698	200317	4	N14S	6368	Lake Atlin AV	1250J5
	65457	699	199796	4	N14S	6397	Lake Ariana AV	1250J5
		700	199874	4	N14S	6398	Lake Ariana AV	1250J5
		701	199804	4	N14S	6391	Lake Ariana AV	1250J5
		702	199980	4	N14S	6392	Lake Ariana AV	1250J5
		703	199881	4	N14S	6285	Lake Ariana AV	1250J5
		704	2000031	4	N14S	6386	Lake Ariana AV	1250J5
		705	200027	4	N14S	6379	Lake Ariana AV	1250J5
		706	321456	4	N14S	6380	Lake Ariana AV	1250J5
		707	321417	4	N14S	6373	Lake Ariana AV	1250J5
		708	200220	4	N14S	6374	Lake Ariana AV	1250J5
		709	200200	4	N14S	6365	Lake Ariana AV	1250J5
65751	710	200302	4	N14S	6366	Lake Ariana AV	1250J5	
	711	200289	4	N14S	6357	Lake Ariana AV	1250J5	
	712	200408	4	N14S	6358	Lake Ariana AV	1250J5	
	713	200403	4	N14S	6349	Lake Ariana AV	1250J5	
	714	200471	4	N14S	6350	Lake Ariana AV	1250J5	
	715	200501	4	N14S	6341	Lake Ariana AV	1250J5	
	716	321826	4	N14S	6340	Lake Ariana AV	1250J5	
	717	321817	4	N14S	6333	Lake Ariana AV	1250J5	
	718	200686	4	N14S	6332	Lake Ariana AV	1250J5	
	719	200700	4	N14S	6327	Lake Ariana AV	1250J5	
	65775	720	200819	4	N14S	6326	Lake Ariana AV	1250J5
		721	321823	4	N15S	6363	Lake Arago AV	1250J5
		722	321931	4	N15S	6362	Lake Arago AV	1250J5
		723	200654	4	N15S	6355	Lake Arago AV	1250J5
		724	322013	4	N15S	6354	Lake Arago AV	1250J5
		725	200758	4	N15S	6347	Lake Arago AV	1250J5
		726	322083	4	N15S	6346	Lake Arago AV	1250J5
		727	200863	4	N15S	6339	Lake Arago AV	1250J5
		728	322195	4	N15S	6338	Lake Arago AV	1250J5
		729	200967	4	N15S	6331	Lake Arago AV	1250J5
		730	322287	4	N15S	6330	Lake Arago AV	1250J5
	65750	731	201082	4	N15S	6323	Lake Arago AV	1250J5
		732	201219	4	N15S	6315	Lake Arago AV	1250J5
		733	322384	4	N15S	6322	Lake Arago AV	1250J5
		734	201302	4	N15S	6307	Lake Arago AV	1250J5
		735	322450	4	N15S	6310	Lake Arago AV	1250J5
		736	322481	4	N15S	6301	Lake Arago AV	1250J5
		737	322566	4	N15S	6302	Lake Arago AV	1250J5
		738	201726	4	N15S	6295	Lake Arago AV	1250J5
		739	322723	4	N15S	6298	Lake Arago AV	1250J5
740	322825	4	N15S	6288	Lake Arago AV	1250J5		
741	322776	4	N15S	6289	Lake Arago AV	1250J5		
	742	200598	4	N15S	6395	Lake Aral AV	1250J5	

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
16	65690	743	200690	4	N15S	6394	Lake Aral AV	1250J5
		744	200661	4	N15S	6385	Lake Aral AV	1250J5
		745	321999	4	N15S	6384	Lake Aral AV	1250J5
		746	321927	4	N15S	6375	Lake Aral AV	1250J5
		747	200841	4	N15S	6374	Lake Aral AV	1250J5
	65691	748	322026	4	N15S	6365	Lake Aral AV	1250J5
		749	200969	4	N15S	6364	Lake Aral AV	1250J5
		750	200898	4	N15S	6357	Lake Aral AV	1250J5
		751	322211	4	N15S	6354	Lake Aral AV	1250J5
		752	201019	4	N15S	6349	Lake Aral AV	1250J5
		753	322285	4	N15S	6344	Lake Aral AV	1250J5
		754	201095	4	N15S	6341	Lake Aral AV	1250J5
		755	322395	4	N15S	6334	Lake Aral AV	1250J5
	65692	756	201227	4	N15S	6333	Lake Aral AV	1250J5
		757	201414	4	N15S	6326	Lake Aral AV	1250J5
		758	201325	4	N15S	6325	Lake Aral AV	1250J5
		759	322562	4	N15S	6318	Lake Aral AV	1250J5
		760	2015525	4	N15S	6317	Lake Aral AV	1250J5
		761	322643	4	N15S	6310	Lake Aral AV	1250J5
		762	201628	4	N15S	6309	Lake Aral AV	1250J5
763		201767	4	N15S	6301	Lake Aral AV	1250J5	
764		322765	4	N15S	6302	Lake Aral AV	1250J5	
17	65749	765	201990	4	N15S	6295	Lake Aral AV	1250J5
		766	322900	4	N15S	6288	Lake Aral AV	1250J5
		767	322835	4	N15S	6281	Lake Arago AV	1250J5
		768	202081	4	N15S	6280	Lake Arago AV	1250J5
		769	202155	4	N15S	6275	Lake Arago AV	1250J5
		770	202227	4	N15S	6274	Lake Arago AV	1250J5
		771	323014	4	N15S	6269	Lake Arago AV	1250J5
		772	202394	4	N15S	6268	Lake Arago AV	1250J5
		773	323140	4	N15S	6263	Lake Arago AV	1250J5
		774	202531	4	N15S	6262	Lake Arago AV	1250J5
	65743	775	323196	4	N15S	6257	Lake Arago AV	1250J5
		776	202613	4	N15S	6256	Lake Arago AV	1250J5
		777	323304	4	N15S	6251	Lake Arago AV	1250J6
		778	202794	4	N15S	6250	Lake Arago AV	1250J6
		779	323377	4	N15S	6245	Lake Arago AV	1250J6
		780	323506	4	N15S	6239	Lake Arago AV	1250J6
		781	202956	4	N15S	6244	Lake Arago AV	1250J6
		782	323576	4	N15S	6233	Lake Arago AV	1250J6
		783	203072	4	N15S	6238	Lake Arago AV	1250J6
		784	323690	4	N15S	6227	Lake Arago AV	1250J6
65729	785	323691	4	N15S	6232	Lake Arago AV	1250J6	
	786	203336	4	N15S	6223	Lake Arago AV	1250J6	
65728	787	203326	4	N15S	6226	Lake Arago AV	1250J6	
	788	324454	4	N15S	8641	Blue Lake DR	1250J6	
65727	789	204232	4	N15S	8631	Blue Lake DR	1250J6	
	790	204225	4	N15S	8621	Blue Lake DR	1250J6	
65727	791	204227	4	N15S	8611	Blue Lake DR	1250J6	
	792	204224	4	N15S	8601	Blue Lake DR	1250J6	
	793	323867	4	N15S	6225	Lake Aral AV	1250J6	
17		794	203459	4	N15S	6226	Lake Aral AV	1250J6
		795	323951	4	N15S	6219	Lake Aral AV	1250J6

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
18	65745	796	203553	4	N15S	6220	Lake Aral AV	1250J6
		797	203739	4	N15S	6213	Lake Aral AV	1250J6
		798	203735	4	N15S	6214	Lake Aral AV	1250J6
		799	324133	4	N15S	6207	Lake Aral AV	1250J6
		800	324136	4	N15S	6208	Lake Aral AV	1250J6
		801	324227	4	N15S	6201	Lake Aral AV	1250J6
		802	324231	4	N15S	8590	Lake Aral AV	1250J6
	65747	803	323293	4	N15S	6261	Lake Aral AV	1250J6
		804	202769	4	N15S	6260	Lake Aral AV	1250J6
		805	323365	4	N15S	6255	Lake Aral AV	1250J6
		806	202890	4	N15S	6252	Lake Aral AV	1250J6
		807	323481	4	N15S	6249	Lake Aral AV	1250J6
		808	203042	4	N15S	6244	Lake Aral AV	1250J6
		809	203057	4	N15S	6243	Lake Aral AV	1250J6
		810	203221	4	N15S	6238	Lake Aral AV	1250J6
		811	203242	4	N15S	6237	Lake Aral AV	1250J6
		812	323749	4	N15S	6232	Lake Aral AV	1250J6
		813	203325	4	N15S	6231	Lake Aral AV	1250J6
	65748	814	202134	4	N15S	6289	Lake Aral AV	1250J5
		815	202270	4	N15S	6296	Lake Aral AV	1250J5
		816	202277	4	N15S	6281	Lake Aral AV	1250J5
		817	202340	4	N15S	6280	Lake Aral AV	1250J5
		818	323150	4	N15S	6273	Lake Aral AV	1250J5
		819	202513	4	N15S	6272	Lake Aral AV	1250J5
		820	323205	4	N15S	6267	Lake Aral AV	1250J5
		821	202629	4	N15S	6266	Lake Aral AV	1250J5
	18	65746	822	203471	4	N15S	6236	Anvil Lake AV
823			203467	4	N15S	6235	Anvil Lake AV	1250J6
824			203582	4	N15S	6227	Anvil Lake AV	1250J6
825			203604	4	N15S	6228	Anvil Lake AV	1250J6
826			324067	4	N15S	6220	Anvil Lake AV	1250J6
827			203708	4	N15S	6219	Anvil Lake AV	1250J6
828			324147	4	N15S	6212	Anvil Lake AV	1250J6
829			324143	4	N15S	6211	Anvil Lake AV	1250J6
830			324199	4	N15S	6203	Anvil Lake AV	1250J6
		831	324237	4	N15S	6204	Anvil Lake AV	1250J6
65725		832	324437	4	N15S	8533	Blue Lake DR	1250J6
		833	204213	4	N15S	8541	Blue Lake DR	1250J6
		834	204216	4	N15S	8551	Blue Lake DR	1250J6
		835	204219	4	N15S	8561	Blue Lake DR	1250J6
65719		836	204207	4	N15S	8501	Blue Lake DR	1250J6
		837	324432	4	N15S	8509	Blue Lake DR	1250J6
		838	324433	4	N15S	8517	Blue Lake DR	1250J6
		839	324434	4	N15S	8525	Blue Lake DR	1250J6
65720		840	203998	4	N15S	6205	Lake Albano AV	1250J6
	841	324210	4	N15S	6206	Lake Albano AV	1250J6	
	842	324117	4	N15S	6214	Lake Albano AV	1250J6	
	843	203887	4	N15S	6213	Lake Albano AV	1250J6	
	844	324026	4	N15S	6222	Lake Albano AV	1250J6	
	845	203691	4	N15S	6221	Lake Albano AV	1250J6	
	846	203628	4	N15S	6229	Lake Albano AV	1250J6	
	847	323945	4	N15S	6230	Lake Albano AV	1250J6	
	848	203496	4	N15S	6237	Lake Albano AV	1250J6	

**Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Lateral Spreadsheet**

<b>Map Sheet Number</b>	<b>FSN Of Sewer main</b>	<b>Lateral NO.</b>	<b>Lateral FSN</b>	<b>Lateral Size (Inch)</b>	<b>Field Book</b>	<b>Street NO.</b>	<b>Street Name</b>	<b>Thomas Bro</b>
		849	323833	4	N15S	6238	Lake Albano AV	1250J6
		850	203399	4	N15S	6245	Lake Albano AV	1250J6
	65718	851	204201	4	N15S	8465	Blue Lake DR	1250J6
		852	204202	4	N15S	8473	Blue Lake DR	1250J6
		853	324430	4	N15S	8483	Blue Lake DR	1250J6
		854	204205	4	N15S	8493	Blue Lake DR	1250J6
	65695	855	201008	4	N15S	6387	Anvil Lake AV	1250J5
		856	201113	4	N15S	6388	Anvil Lake AV	1250J5
		857	201066	4	N15S	6379	Anvil Lake AV	1250J5
		858	322317	4	N15S	6380	Anvil Lake AV	1250J5
		859	201127	4	N15S	6371	Anvil Lake AV	1250J5
		860	201319	4	N15S	6370	Anvil Lake AV	1250J5
		861	201241	4	N15S	6363	Anvil Lake AV	1250J5
	65694	862	322482	4	N15S	6360	Anvil Lake AV	1250J5
		863	201349	4	N15S	6355	Anvil Lake AV	1250J5
		864	322544	4	N15S	6354	Anvil Lake AV	1250J5
		865	201463	4	N15S	6347	Anvil Lake AV	1250J5
		866	322620	4	N15S	6344	Anvil Lake AV	1250J5
		867	322568	4	N15S	6339	Anvil Lake AV	1250J5
		868	201717	4	N15S	6331	Anvil Lake AV	1250J5
		869	201812	4	N15S	6334	Anvil Lake AV	1250J5
		870	201802	4	N15S	6323	Anvil Lake AV	1250J5
		871	201923	4	N15S	6324	Anvil Lake AV	1250J5
		872	322796	4	N15S	6313	Anvil Lake AV	1250J5
	873	202025	4	N15S	6314	Anvil Lake AV	1250J5	
	65693	874	202019	4	N15S	6305	Anvil Lake AV	1250J5
		875	202101	4	N15S	6306	Anvil Lake AV	1250J5
		876	323054	4	N15S	6297	Anvil Lake AV	1250J5
		877	202329	4	N15S	6298	Anvil Lake AV	1250J5
		878	202408	4	N15S	6291	Anvil Lake AV	1250J5
		879	323181	4	N15S	6292	Anvil Lake AV	1250J5
		880	202557	4	N15S	6285	Anvil Lake AV	1250J5
	881	323255	4	N15S	6286	Anvil Lake AV	1250J5	
	65723	882	202663	4	N15S	6279	Anvil Lake AV	1250J6
		883	202739	4	N15S	6280	Anvil Lake AV	1250J6
		884	323345	4	N15S	6271	Anvil Lake AV	1250J6
		885	202870	4	N15S	6274	Anvil Lake AV	1250J6
		886	202958	4	N15S	6263	Anvil Lake AV	1250J6
		887	203007	4	N15S	6266	Anvil Lake AV	1250J6
888		203094	4	N15S	6255	Anvil Lake AV	1250J6	
889		203130	4	N15S	6258	Anvil Lake AV	1250J6	
890		203224	4	N15S	6247	Anvil Lake AV	1250J6	
891		323701	4	N15S	6250	Anvil Lake AV	1250J6	
892		203301	4	N15S	6241	Anvil Lake AV	1250J6	
893	323781	4	N15S	6242	Anvil Lake AV	1250J6		
65779	894	322514	4	N15S	6381	Amber Lake AV	1250J5	
	895	201601	4	N15S	6382	Amber Lake AV	1250J5	
	896	322551	4	N15S	6373	Amber Lake AV	1250J5	
	897	201719	4	N15S	6372	Amber Lake AV	1250J5	
	898	201681	4	N15S	6365	Amber Lake AV	1250J5	
	899	201791	4	N15S	6362	Amber Lake AV	1250J5	
	900	322688	4	N15S	6357	Amber Lake AV	1250J5	
901	201904	4	N15S	6352	Amber Lake AV	1250J5		

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro	
19		902	201879	4	N15S	6349	Amber Lake AV	1250J5	
		903	322845	4	N15S	6342	Amber Lake AV	1250J5	
		904	201960	4	N15S	6341	Amber Lake AV	1250J5	
	65696		905	202095	4	N15S	6332	Amber Lake AV	1250J5
			906	322908	4	N15S	6331	Amber Lake AV	1250J5
			907	323004	4	N15S	6322	Amber Lake AV	1250J5
			908	322967	4	N15S	6321	Amber Lake AV	1250J5
			909	323081	4	N15S	6312	Amber Lake AV	1250J5
			910	202282	4	N15S	6311	Amber Lake AV	1250J5
			911	202464	4	N15S	6302	Amber Lake AV	1250J5
			912	202597	4	N15S	6296	Amber Lake AV	1250J5
			913	202584	4	N15S	6289	Amber Lake AV	1250J5
			914	323324	4	N15S	6288	Amber Lake AV	1250J5
	65722		915	202651	4	N15S	6281	Amber Lake AV	1250J6
			916	202833	4	N15S	6280	Amber Lake AV	1250J6
			917	323402	4	N15S	6273	Amber Lake AV	1250J6
			918	202936	4	N15S	6272	Amber Lake AV	1250J6
			919	323496	4	N15S	6265	Amber Lake AV	1250J6
			920	203128	4	N15S	6264	Amber Lake AV	1250J6
			921	203148	4	N15S	6257	Amber Lake AV	1250J6
			922	203239	4	N15S	6256	Amber Lake AV	1250J6
			923	323689	4	N15S	6249	Amber Lake AV	1250J6
			924	323754	4	N15S	6241	Amber Lake AV	1250J6
	65698		925	203329	4	N15S	6244	Amber Lake AV	1250J6
			926	201997	4	N15S	6383	Lake Albano AV	1250J6
			927	202056	4	N15S	6384	Lake Albano AV	1250J6
			928	322869	4	N15S	6373	Lake Albano AV	1250J6
			929	322944	4	N15S	6374	Lake Albano AV	1250J6
	65697		930	202107	4	N15S	6363	Lake Albano AV	1250J6
			931	202231	4	N15S	6364	Lake Albano AV	1250J6
932			202173	4	N15S	6353	Lake Albano AV	1250J6	
933			323080	4	N15S	6352	Lake Albano AV	1250J6	
934			202283	4	N15S	6343	Lake Albano AV	1250J6	
935			202460	4	N15S	6340	Lake Albano AV	1250J6	
936			323114	4	N15S	6333	Lake Albano AV	1250J6	
937			323247	4	N15S	6324	Lake Albano AV	1250J6	
938			202523	4	N15S	6323	Lake Albano AV	1250J6	
939			202633	4	N15S	6315	Lake Albano AV	1250J6	
65721		940	202707	4	N15S	6314	Lake Albano AV	1250J6	
		941	323340	4	N15S	6303	Lake Albano AV	1250J6	
		942	323375	4	N15S	6304	Lake Albano AV	1250J6	
		943	202879	4	N15S	6277	Lake Albano AV	1250J6	
		944	323512	4	N15S	6276	Lake Albano AV	1250J6	
		945	202981	4	N15S	6269	Lake Albano AV	1250J6	
		946	203076	4	N15S	6268	Lake Albano AV	1250J6	
		947	323627	4	N15S	6261	Lake Albano AV	1250J6	
		948	323680	4	N15S	6260	Lake Albano AV	1250J6	
		949	323710	4	N15S	6253	Lake Albano AV	1250J6	
65704		950	323790	4	N15S	5252	Lake Albano AV	1250J6	
		951	202358	4	N15S	6361	Lake Alturas AV	1250J6	
		952	202517	4	N15S	6360	Lake Alturas AV	1250J6	
		953	202451	4	N15S	6351	Lake Alturas AV	1250J6	
		954	323249	4	N15S	6350	Lake Alturas AV	1250J6	

**Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Lateral Spreadsheet**

<b>Map Sheet Number</b>	<b>FSN Of Sewer main</b>	<b>Lateral NO.</b>	<b>Lateral FSN</b>	<b>Lateral Size (Inch)</b>	<b>Field Book</b>	<b>Street NO.</b>	<b>Street Name</b>	<b>Thomas Bro</b>
20	65715	955	202563	4	N15S	6341	Lake Alturas AV	1250J6
		956	323334	4	N15S	6336	Lake Alturas AV	1250J6
		957	202652	4	N15S	6331	Lake Alturas AV	1250J6
		958	323388	4	N15S	6322	Lake Alturas AV	1250J6
		959	202773	4	N15S	6321	Lake Alturas AV	1250J6
		960	202952	4	N15S	6312	Lake Alturas AV	1250J6
		961	202843	4	N15S	6311	Lake Alturas AV	1250J6
	65716	962	203005	4	N15S	6301	Lake Alturas AV	1250J6
		963	203060	4	N15S	6302	Lake Alturas AV	1250J6
		964	323612	4	N15S	6259	Lake Alturas AV	1250J6
		965	323625	4	N15S	6262	Lake Alturas AV	1250J6
		966	323673	4	N15S	6251	Lake Alturas AV	1250J6
		967	203293	4	N15S	6250	Lake Alturas AV	1250J6
		968	203384	4	N15S	6243	Lake Alturas AV	1250J6
	65717	969	203448	4	N15S	6236	Lake Alturas AV	1250J6
		970	323938	4	N15S	6228	Lake Alturas AV	1250J6
		971	203551	4	N15S	6227	Lake Alturas AV	1250J6
		972	324014	4	N15S	6220	Lake Alturas AV	1250J6
		973	324037	4	N15S	6219	Lake Alturas AV	1250J6
		974	324098	4	N15S	6212	Lake Alturas AV	1250J6
		975	203859	4	N15S	6211	Lake Alturas AV	1250J6
		976	203939	4	N15S	6203	Lake Alturas AV	1250J6
	65711	977	324186	4	N15S	6206	Lake Alturas AV	1250J6
		978	203497	4	N15S	6235	Lake Alturas AV	1250J6
		979	204197	4	N15S	8411	Blue Lake DR	1250J6
	65712	980	204198	4	N15S	8449	Blue Lake DR	1250J6
		981	204200	4	N15S	8457	Blue Lake DR	1250J6
		982	203714	4	N15S	6217	Lake Alamor AV	1250J6
		983	203707	4	N15S	6218	Lake Alamor AV	1250J6
		984	203786	4	N15S	6209	Lake Alamor AV	1250J6
		985	324099	4	N15S	6210	Lake Alamor AV	1250J6
	65713	986	324184	4	N15S	6201	Lake Alamor AV	1250J6
		987	203919	4	N15S	6202	Lake Alamor AV	1250J6
		988	323657	4	N15S	6249	Lake Alamor AV	1250J6
		989	323697	4	N15S	6256	Lake Alamor AV	1250J6
		990	323776	4	N15S	6241	Lake Alamor AV	1250J6
		991	203343	4	N15S	6248	Lake Alamor AV	1250J6
		992	323820	4	N15S	6233	Lake Alamor AV	1250J6
	65714	993	203466	4	N15S	6234	Lake Alamor AV	1250J6
		994	323944	4	N15S	6226	Lake Alamor AV	1250J6
		995	203571	4	N15S	6225	Lake Alamor AV	1250J6
996		202844	4	N15S	6281	Lake Alamor AV	1250J6	
997		202959	4	N15S	6282	Lake Alamor AV	1250J6	
998		323433	4	N15S	6273	Lake Alamor AV	1250J6	
65706	999	203056	4	N15S	6274	Lake Alamor AV	1250J6	
	1000	203010	4	N15S	6265	Lake Alamor AV	1250J6	
	1001	203187	4	N15S	6266	Lake Alamor AV	1250J6	
	1002	203091	4	N15S	6257	Lake Alamor AV	1250J6	
	1003	203307	4	N15S	6281	Jackson DR	1250J6	
	1004	323813	4	N15S	6271	Jackson DR	1250J6	
	1005	203545	4	N15S	6280	Jackson DR	1250J6	
	1006	204054	4	N15S	8358	Blue Lake DR	1250J6	
	1007	324413	4	N15S	8357	Blue Lake DR	1250J6	

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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
21	65656	1008	324300	4	N15S	8370	Blue Lake DR	1250J6
		1009	204180	4	N15S	8371	Blue Lake DR	1250J6
		1010	324301	4	N15S	8382	Blue Lake DR	1250J6
		1011	204182	4	N15S	8383	Blue Lake DR	1250J6
		1012	204057	4	N15S	8394	Blue Lake DR	1250J6
		1013	204183	4	N15S	8395	Blue Lake DR	1250J6
	65707	1014	203959	4	N15S	6221	Jackson DR	1250J6
		1015	203846	4	N15S	6231	Jackson DR	1250J6
		1016	324064	4	N15S	6241	Jackson DR	1250J6
		1017	324008	4	N15S	6251	Jackson DR	1250J6
		1018	323915	4	N15S	6261	Jackson DR	1250J6
		1019	324072	4	N15S	6280	Jackson DR	1250J6
		1020	203638	4	N15S	6280	Jackson DR	1250J6
22	65435	1021	197423	4	N14S	6486	Bisby Lake AV	1250J5
		1022	319564	4	N14S	6479	Bisby Lake AV	1250J5
		1023	197531	4	N14S	6476	Bisby Lake AV	1250J5
	65434	1024	197760	4	N14S	8401	Beaver Lake DR	1250J5
		1025	197847	4	N14S	8411	Beaver Lake DR	1250J5
		1026	319694	4	N14S	8420	Beaver Lake DR	1250J5
		1027	197914	4	N14S	8421	Beaver Lake DR	1250J5
		1028	197849	4	N14S	8430	Beaver Lake DR	1250J5
		1029	197780	4	N14S	8420	Beaver Lake DR	1250J5
		1030	198017	4	N14S	8431	Beaver Lake DR	1250J5
	65448	1031	198089	4	N14S	8441	Beaver Lake DR	1250J5
		1032	320007	4	N14S	8451	Beaver Lake DR	1250J5
		1033	319972	4	N14S	8460	Beaver Lake DR	1250J5
		1034	198306	4	N14S	8461	Beaver Lake DR	1250J5
		1035	320151	4	N14S	8471	Beaver Lake DR	1250J5
		1036	320042	4	N14S	8470	Beaver Lake DR	1250J5
		1037	198321	4	N14S	8480	Beaver Lake DR	1250J5
		1038	320201	4	N14S	8481	Beaver Lake DR	1250J5
65462	1039	198598	4	N14S	8561	Lake Murray BL	1250J5	
65464	1040	198023	4	N14S	8485	Beaver Lake DR	1250J5	
23	65447	1041	319914	4	N14S	8376	Lake Baca DR	N14S
		1042	320050	4	N14S	8385	Lake Baca DR	N14S
		1043	198076	4	N14S	8386	Lake Baca DR	N14S
		1044	320100	4	N14S	8405	Lake Baca DR	N14S
		1045	198170	4	N14S	8406	Lake Baca DR	N14S
		1046	320160	4	N14S	8415	Lake Baca DR	N14S
		1047	198247	4	N14S	8416	Lake Baca DR	N14S
		1048	320225	4	N14S	8427	Lake Baca DR	N14S
		1049	198368	4	N14S	8428	Lake Baca DR	N14S
		1050	320294	4	N14S	8439	Lake Baca DR	N14S
	65446	1051	198432	4	N14S	8440	Lake Baca DR	N14S
		1052	320270	4	N14S	8452	Lake Baca DR	1250J5
		1053	320377	4	N14S	8451	Lake Baca DR	1250J5
		1054	320327	4	N14S	8464	Lake Baca DR	1250J5
		1055	320428	4	N14S	8463	Lake Baca DR	1250J5
		1056	198745	4	N14S	8476	Lake Baca DR	1250J5
		1057	320500	4	N14S	8475	Lake Baca DR	1250J5
		1058	320451	4	N14S	8488	Lake Baca DR	1250J5
		1059	198950	4	N14S	8487	Lake Baca DR	1250J5
	1060	320350	4	N14S	8388	Mono Lake DR	1250J5	



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Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
	65444	1061	198841	4	N14S	8403	Mono Lake DR	1250J5
		1062	320390	4	N14S	8404	Mono Lake DR	1250J5
		1063	320544	4	N14S	8417	Mono Lake DR	1250J5
		1064	198809	4	N14S	8416	Mono Lake DR	1250J5
		1065	199027	4	N14S	8431	Mono Lake DR	1250J5
		1066	320525	4	N14S	8430	Mono Lake DR	1250J5
24	65428	1067	319558	4	N14S	6472	Boulder Lake AV	1250J5
	65430	1068	319466	4	N14S	8301	Beaver Lake DR	1250J5
		1069	319185	4	N14S	8302	Beaver Lake DR	1250J5
		1070	197243	4	N14S	8312	Beaver Lake DR	1250J5
		1071	197433	4	N14S	8311	Beaver Lake DR	1250J5
		1072	197247	4	N14S	8320	Beaver Lake DR	1250J5
		1073	197460	4	N14S	8321	Beaver Lake DR	1250J5
	65431	1074	197268	4	N14S	8330	Beaver Lake DR	1250J5
		1075	319502	4	N14S	8331	Beaver Lake DR	1250J5
		1076	319389	4	N14S	8338	Beaver Lake DR	1250J5
		1077	319527	4	N14S	8341	Beaver Lake DR	1250J5
		1078	197356	4	N14S	8346	Beaver Lake DR	1250J5
		1079	197578	4	N14S	8351	Beaver Lake DR	1250J5
		1080	197411	4	N14S	8356	Beaver Lake DR	1250J5
	65438	1081	197435	4	N14S	8366	Beaver Lake DR	1250J5
		1082	319578	4	N14S	8361	Beaver Lake DR	1250J5
		1083	197939	4	N14S	8306	Lake Baca DR	1250J5
		1084	197783	4	N14S	8305	Lake Baca DR	1250J5
	65437	1085	319745	4	N14S	8316	Lake Baca DR	1250J5
		1086	197954	4	N14S	8315	Lake Baca DR	1250J5
		1087	197846	4	N14S	8326	Lake Baca DR	1250J5
		1088	197981	4	N14S	8327	Lake Baca DR	1250J5
		1089	197870	4	N14S	8336	Lake Baca DR	1250J5
		1090	319900	4	N14S	8337	Lake Baca DR	1250J5
1091		197912	4	N14S	8346	Lake Baca DR	1250J5	
1092		319919	4	N14S	8349	Lake Baca DR	1250J5	
1093		197935	4	N14S	8356	Lake Baca DR	1250J5	
1094		319964	4	N14S	8361	Lake Baca DR	1250J5	
1095		197977	4	N14S	8366	Lake Baca DR	1250J5	
1096		319994	4	N14S	8373	Lake Baca DR	1250J5	
25	65442	1097	198344	4	N14S	8304	Mono Lake DR	1250J5
		1098	320256	4	N14S	8303	Mono Lake DR	1250J5
		1099	198362	4	N14S	8316	Mono Lake DR	1250J5
		1100	198533	4	N14S	8317	Mono Lake DR	1250J5
		1101	198380	4	N14S	8328	Mono Lake DR	1250J5
		1102	198566	4	N14S	8331	Mono Lake DR	1250J5
	65451	1103	320540	4	N14S	8302	June Lake DR	1250J5
		1104	199098	4	N14S	8301	June Lake DR	1250J5
		1105	198952	4	N14S	8318	June Lake DR	1250J5
		1106	199125	4	N14S	8319	June Lake DR	1250J5
		1107	198978	4	N14S	8334	June Lake DR	1250J5
		1108	199153	4	N14S	8335	June Lake DR	1250J5
		1109	320600	4	N14S	8350	June Lake DR	1250J5
		1110	199198	4	N14S	8351	June Lake DR	1250J5
	1111	320622	4	N14S	8364	June Lake DR	1250J5	
	1112	320656	4	N14S	8378	June Lake DR	1250J5	
	1113	199257	4	N14S	8367	June Lake DR	1250J5	

Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Lateral Spreadsheet

Map Sheet Number	FSN Of Sewer main	Lateral NO.	Lateral FSN	Lateral Size (Inch)	Field Book	Street NO.	Street Name	Thomas Bro
	65450	1114	320719	4	N14S	8390	June Lake DR	1250J5
		1115	320795	4	N14S	8381	June Lake DR	1250J5
		1116	199416	4	N14S	8401	June Lake DR	1250J5
		1117	320793	4	N14S	8402	June Lake DR	1250J5
		1118	199521	4	N14S	8417	June Lake DR	1250J5
		1119	199363	4	N14S	8418	June Lake DR	1250J5

**APPENDIX I**  
**PIPELINE REHABILITATION AQ-1 MANHOLE SHEETS**

## Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Manholes Spreadsheet

Map Sheet Number	Thomas Brothers	Street Name	MH ID	MH IE	MH Depth	Manhole Method	Council District	Community	Field Book	FSN	RIM ELEV
<b>Install Cleanout</b>											
1	1250J3	Turnford DR	Cleanout 1	748.00	7.00	Add Cleanout	7	Navajo	N13S	131457	-
1	1250J3	Bobhird DR	Cleanout 2	786.81	7.00	Add Cleanout	7	Navajo	N13S	131589	-
2	1250J3	Jackie DR	Cleanout 3	728.05	5.00	Add Cleanout	7	Navajo	N13S	131469	-
2	1250J3	Jackie DR	Cleanout 4	739.68	10.00	Add Cleanout	7	Navajo	N13S	131570	-
3	1251A3	Mulvaney DR	Cleanout 5	736.32	6.00	Add Cleanout	7	Navajo	O13S	132653	-
3	1251A3	Mulvaney DR	Cleanout 6	753.33	8.00	Add Cleanout	7	Navajo	N13S	131566	-
3	1251A3	Robles WY	Cleanout 7	724.14	3.00	Add Cleanout	7	Navajo	O13S	132616	-
3	1251A3	Robles WY	Cleanout 8	729.79	6.00	Add Cleanout	7	Navajo	N13S	131567	-
4	1250J3	Dent CT	Cleanout 9	774.64	5.00	Add Cleanout	7	Navajo	N13S	131578	-
5	1251A4	Lake Ashmere CT	Cleanout 10	757.40	6.00	Add Cleanout	7	Navajo	O14S	132683	-
7	1251A5	Lake Mere CT	Cleanout 11	751.13	7.00	Add Cleanout	7	Navajo	O14S	132705	-
7	1251A5	Lake Apopka PL	Cleanout 12	745.22	6.00	Add Cleanout	7	Navajo	O14S	132693	-
8	1250J5	Lynnhaven LN	Cleanout 13	-	-	Add Cleanout	7	Navajo	N14S	131870	-
8	1250J5	Lynnhaven LN	Cleanout 14	-	-	Add Cleanout	7	Navajo	N14S	131872	-
9	1251A5	Lake Angela DR	Cleanout 15	642.15	8.00	Add Cleanout	7	Navajo	N15S	132170	-
10	1251A5	Lake Angela DR	Cleanout 16	646.50	3.00	Add Cleanout	7	Navajo	N15S	132171	-
11	1251A6	Lake Apopka PL	Cleanout 17	697.81	7.00	Add Cleanout	7	Navajo	O15S	132729	-
12	1251A5	Lake Angela DR	Cleanout 18	643.56	6.00	Add Cleanout	7	Navajo	N15S	132167	-
15	1250J5	Lake Ashmere DR	Cleanout 19	660.30	13.00	Add Cleanout	7	Navajo	N14S	131849	-
16	1250J5	Lake Aral DR	Cleanout 20	638.89	7.00	Add Cleanout	7	Navajo	N15S	132105	-
17	1250J6	Blue Lake DR	Cleanout 21	622.30	5.00	Add Cleanout	7	Navajo	N15S	132131	-
17	1250J6	Blue Lake DR	Cleanout 22	623.17	3.00	Add Cleanout	7	Navajo	N15S	132130	-
19	1250J5	Anvil Lake AV	Cleanout 23	633.72	6.00	Add Cleanout	7	Navajo	N15S	132104	-
19	1250J6	Lake Albano AV	Cleanout 24	625.98	6.00	Add Cleanout	7	Navajo	N15S	132099	-
20	1250J6	Lake Alturas AV	Cleanout 25	621.93	9.00	Add Cleanout	7	Navajo	N15S	132096	-
20	1250J6	Lake Alamor AV	Cleanout 26	623.63	6.00	Add Cleanout	7	Navajo	N15S	132117	-
21	1250J6	Jackson DR	Cleanout 27	620.86	7.00	Add Cleanout	7	Navajo	N15S	132120	-
22	1250J5	Bisby Lake AV	Cleanout 28	660.83	6.00	Add Cleanout	7	Navajo	N14S	131824	-
22	1250J5	Beaver Lake Dr	Cleanout 29	-	-	Add Cleanout	7	Navajo	N14S	131853	-
22	1250J5	Lake Murray BL	Cleanout 30	664.92	6.00	Add Cleanout	7	Navajo	N14S	131855	-
25	1250J5	Boulder Lake AV	Cleanout 31	642.21	9.00	Add Cleanout	7	Navajo	N14S	131840	-
<b>Rehabilitate Manhole With Point Repair</b>											
3	1251A3	Robles WY	8	714.34	30.00	Rehab With Poit Repair	7	Navajo	O13S	132621	-
5	1251A5	East Lake DR	33	734.89	9.00	Rehab With Poit Repair	7	Navajo	O14S	132687	-
5	1251A5	East Lake DR	34	712.79	8.00	Rehab With Poit Repair	7	Navajo	O14S	132688	-
6	1251A5	East Lake DR	57	673.42	10.00	Rehab With Poit Repair	7	Navajo	O14S	132702	-
8	1251A5	Lake Ashmere DR	253	739.18	7.00	Rehab With Poit Repair	7	Navajo	N14S	131866	-
15	1250J5	Lake Atlin AV	238	654.81	6.00	Rehab With Poit Repair	7	Navajo	N14S	131851	-
16	1250J5	Lake Arago AV	185	630.87	5.00	Rehab With Poit Repair	7	Navajo	N15S	132152	-
17	1250J6	Lake Arago AV	181	623.87	6.00	Rehab With Poit Repair	7	Navajo	N15S	132148	-
17	1250J6	Lake Arago AV	165	620.30	6.00	Rehab With Poit Repair	7	Navajo	N15S	132132	-
22	1250J5	Lake Murray BL	239	661.87	7.00	Rehab With Poit Repair	7	Navajo	N14S	131852	-

## Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Manholes Spreadsheet

Map Sheet Number	Thomas Brothers	Street Name	MH ID	MH IE	MH Depth	Manhole Method	Council District	Community	Field Book	FSN	RIM ELEV
<b>Replace Manhole</b>											
2	1250J3	Robles DR	50	726.40	4.00	Replace Manhole	7	Navajo	N13S	131470	-
2	1250J3	Jackie Dr	45	729.18	10.00	Replace Manhole	7	Navajo	N13S	131465	-
2	1250J3	Jackie Dr	46	727.86	5.00	Replace Manhole	7	Navajo	N13S	131466	-
7	1251A5	Lake Apopka PL	45	738.42	6.00	Replace Manhole	7	Navajo	O14S	132696	-
11	1251A6	Lake Apopka PL	23	693.98	9.00	Replace Manhole	7	Navajo	O15S	132727	-
12	1251A5	Lake Arrowhead DR	198	632.62	6.00	Replace Manhole	7	Navajo	N15S	132164	-
14	1250J5	Lake Ariana AV	188	631.08	10.00	Replace Manhole	7	Navajo	N15S	132155	-
14	1250J5	Lake Atlin AV	192	633.01	8.00	Replace Manhole	7	Navajo	N15S	132159	-
14	1250J5	Lake Atlin AV	193	640.01	7.00	Replace Manhole	7	Navajo	N15S	132160	-
19	1250J6	Anvil Lake AV	142	623.88	6.00	Replace Manhole	7	Navajo	N15S	132109	-
19	1250J6	Lake Albano AV	146	620.23	6.00	Replace Manhole	7	Navajo	N15S	132113	-
24	1250J5	Lake Baca DR	206	647.61	7.00	Replace Manhole	7	Navajo	N14S	131819	-
<b>Rehabilitation Manhole</b>											
1	1250J3	Turnford DR	31	747.65	7.00	Rehab	7	Navajo	N13S	131456	-
1	1250J3	Turnford DR	28	760.81	7.00	Rehab	7	Navajo	N13S	131453	-
1	1250J3	Turnford DR	73	767.78	7.00	Rehab	7	Navajo	N13S	131491	-
3	1251A3	Robles WY	4	723.84	6.00	Rehab	7	Navajo	O13S	132617	-
3	1251A3	Mulvaney DR	47	713.82	30.21	Rehab	7	Navajo	O13S	132651	-
4	1250J3	Dent CT	164	772.96	5.00	Rehab	7	Navajo	N13S	131577	-
5	1251A5	Lake Ashmere DR	35	750.55	5.00	Rehab	7	Navajo	O14S	132689	-
5	1251A5	East Lake DR	59	710.81	8.00	Rehab	7	Navajo	O14S	132704	-
6	1251A5	East Lake DR	58	703.32	6.00	Rehab	7	Navajo	O14S	132703	-
8	1251A5	Lake Ashmere DR	252	724.78	12.00	Rehab	7	Navajo	N14S	131865	-
8	1251A5	Lake Athabaska WY	251	722.16	10.00	Rehab	7	Navajo	N14S	131864	-
8	1251A5	Lake Ashmere DR	36	749.28	6.00	Rehab	7	Navajo	O14S	132690	-
10	1251A5	Lake Angela DR	3	655.61	6.00	Rehab	7	Navajo	O15S	132708	-
11	1251A6	Blue Lake DR	27	633.51	25.00	Rehab	7	Navajo	O15S	132731	-
11	1251A6	Blue Lake DR	28	641.02	27.00	Rehab	7	Navajo	O15S	132732	-
12	1251A6	Lake Arrowhead DR	175	629.02	7.00	Rehab	7	Navajo	N15S	132142	-
12	1250J5	Lake Angela DR	195	639.53	7.00	Rehab	7	Navajo	N15S	132161	-
13	1250J6	Lake Ariana AV	179	619.08	6.00	Rehab	7	Navajo	N15S	132146	-
13	1250J6	Lake Ariana AV	177	616.32	6.00	Rehab	7	Navajo	N15S	132144	-
13	1251A6	Lake Arrowhead DR	170	621.41	8.00	Rehab	7	Navajo	N15S	132137	-
13	1251A6	Lake Arrowhead DR	176	625.54	8.00	Rehab	7	Navajo	N15S	132143	-
14	1250J5	Lake Ariana AV	187	620.08	8.00	Rehab	7	Navajo	N15S	132154	-
14	1250J6	Lake Atlin AV	190	624.02	6.00	Rehab	7	Navajo	N15S	132157	-
15	1250J5	Lake Atlin AV	235	647.93	5.00	Rehab	7	Navajo	N14S	131848	-
16	1250J5	Lake Aral DR	139	637.81	6.00	Rehab	7	Navajo	N15S	132106	-
19	1250J5	Anvil Lake AV	134	632.28	6.00	Rehab	7	Navajo	N15S	132103	-
19	1250J5	Anvil Lake AV	133	629.13	7.00	Rehab	7	Navajo	N15S	132102	-
19	1250J5	Amber Lake AV	131	630.14	6.00	Rehab	7	Navajo	N15S	132100	-
19	1250J6	Lake Albano AV	129	623.73	7.00	Rehab	7	Navajo	N15S	132098	-

## Pipeline Rehabilitation AQ-1 (B-17151) \_ Sewer Manholes Spreadsheet

Map Sheet Number	Thomas Brothers	Street Name	MH ID	MH IE	MH Depth	Manhole Method	Council District	Community	Field Book	FSN	RIM ELEV
20	1250J6	Lake Alturas AV	128	621.57	9.00	Rehab	7	Navajo	N15S	132097	-
20	1250J6	Lake Alturas AV	149	619.32	8.00	Rehab	7	Navajo	N15S	132116	-
21	1250J6	Jackson DR	156	612.98	18.00	Rehab	7	Navajo	N15S	132123	-
21	1250J6	Jackson DR	209	606.19	21.00	Rehab	7	Navajo	N15S	132173	-
25	1250J5	Boulder Lake AV	222	640.66	13.00	Rehab	7	Navajo	N14S	131835	-
				<b>Replace Manhole</b>			<b>Replace Manhole (Total = 12)</b>				
				<b>Rehabilitation Manhole</b>			<b>Rehabilitation Manhole (Total = 34)</b>				
				<b>Rehabilitate Manhole With Point Repair</b>			<b>Point Repair Manhole (Total = 10)</b>				
				<b>Install Cleanout</b>			<b>Install Cleanout (Total = 31)</b>				

**APPENDIX J**  
**SITE MAPS**

## TABLE OF CONTENTS

PAGE NO.	DESCRIPTION
I	CONTRACTOR'S NOTE
II	KEY MAP
III	VICINITY MAP
1-25	GIS SITE MAPS
1-5	SURVEY MONUMENT PERPETUATION



## CONTRACTOR'S NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED, A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILLED WITH THE COUNTY SURVEYOR. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
  
2. CONSTRUCTION STORM WATER PROTECTION NOTES
  - a. TOTAL SITE DISTURBANCE AREA- .06 (ACRES)
  
  - b. HYDROLOGIC UNIT/WATERSHED- San Diego /Lower San Diego River
  
  - c. HYDROLOGIC SUBAREA NAME & NO.- Mission San Diego / 907.11 & Santee /907.12
  
  - d. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE
    - WPCP  

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

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

TRADITIONAL: RISK LEVEL 1  2  3

LUP: RISK TYPE 1  2  3
  
  - e.  CONSTRUCTION SITE PRIORITY
    - ASBS  HIGH  MEDIUM  LOW
  
3. ALL ADVANCE METERING INFRASTRUCTURE (AMI) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

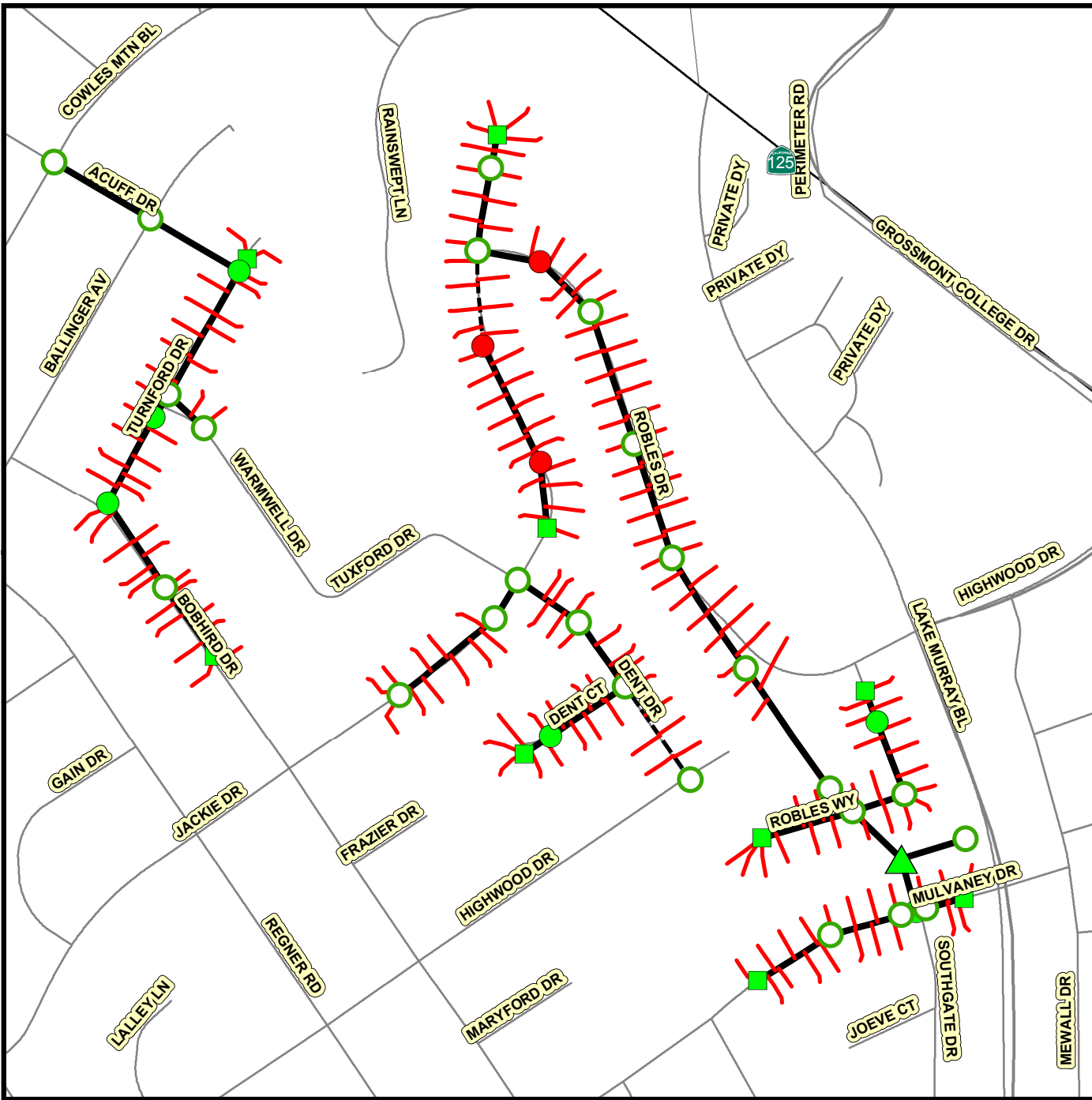
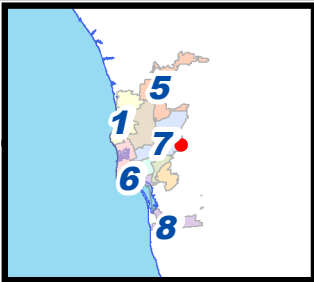
The City of  
**SAN DIEGO** Public Works  
**PIPELINE REHABILITATION AQ-1**  
**MAP NO.1 OF 2**

SENIOR ENGINEER  
 SHEILA BOSE  
 619-533-4698

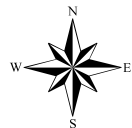
PROJECT MANAGER  
 ELHAM LOTFI  
 619-533-5212

PROJECT ENGINEER  
 BAREAZ PIROMARI  
 619-533-5474

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



- EXISTING MANHOLE
- ▲ MH\_REPAIR\_&\_REHAB
- MH\_REHAB
- MH\_REPLACE
- NEW\_CLEANOUT
- SEWER\_LATERAL\_REHAB\_
- PROPOSED SEWER MAIN REHABILITATION



COMMUNITY NAME: NAVAJO

COUNCIL DISTRICT: 7

SAP ID: B17151 (S)

Date: September 10, 2018  
 Pipeline Rehabilitation AQ-1 Appendix J - Site Maps



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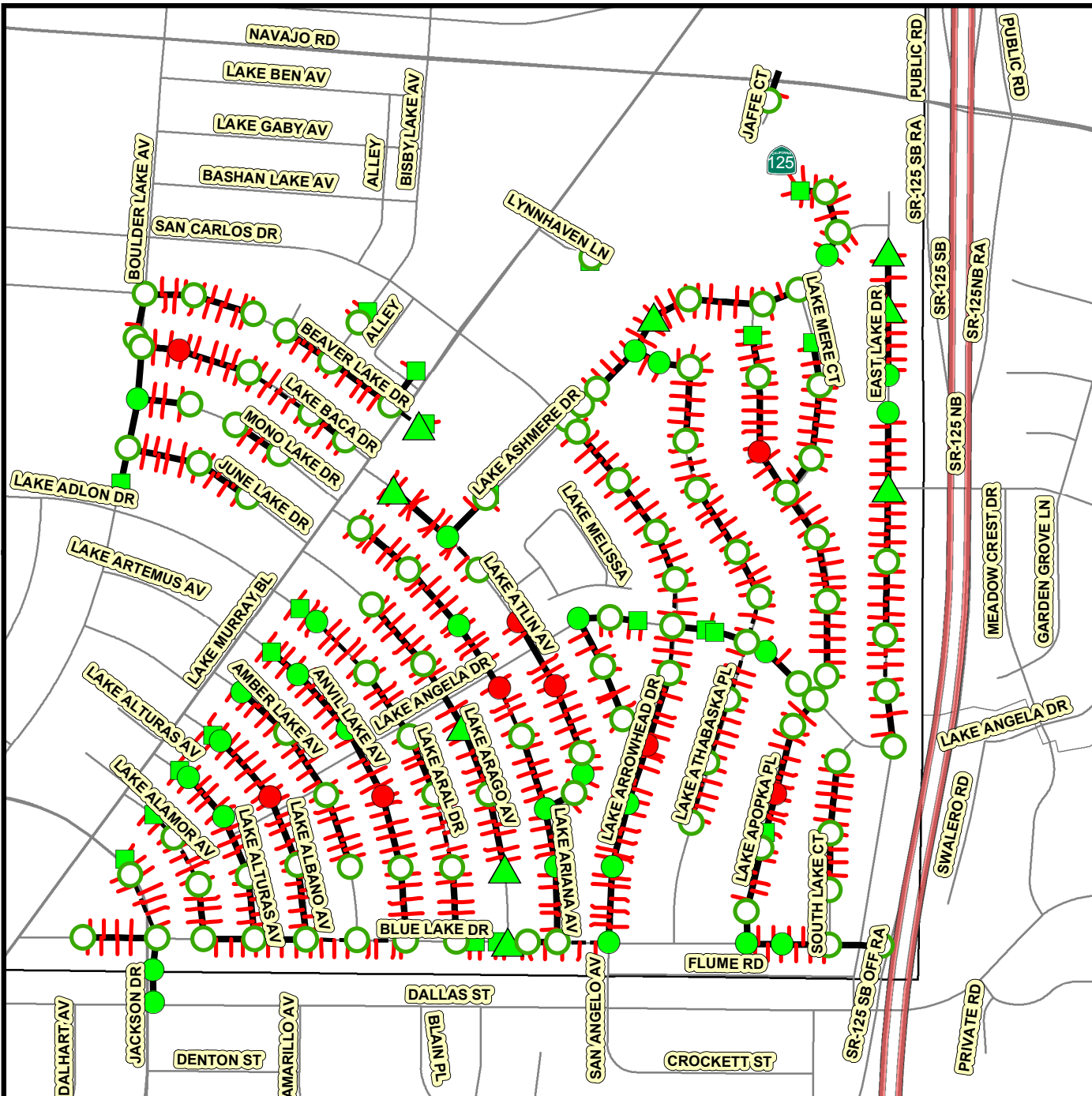
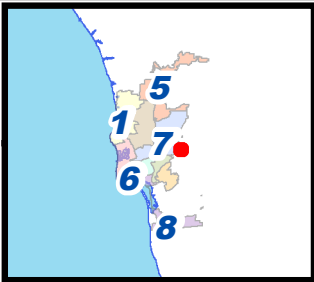
The City of  
**SAN DIEGO** Public Works  
**PIPELINE REHABILITATION AQ-1**  
**MAP NO.2 OF 2**

SENIOR ENGINEER  
 SHEILA BOSE  
 619-533-4698

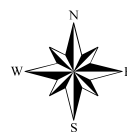
PROJECT MANAGER  
 ELHAM LOTFI  
 619-533-5212

PROJECT ENGINEER  
 BAREAZ PIOMARI  
 619-533-5474

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



- EXISTING MANHOLE
- MH\_REPLACE
- MH\_REPAIR\_&\_REHAB
- SEWER\_LATERAL\_REHAB\_
- NEW\_CLEANOUT
- PROPOSED SEWER MAIN REHABILITATION



COMMUNITY NAME: NAVAJO

COUNCIL DISTRICT: 7

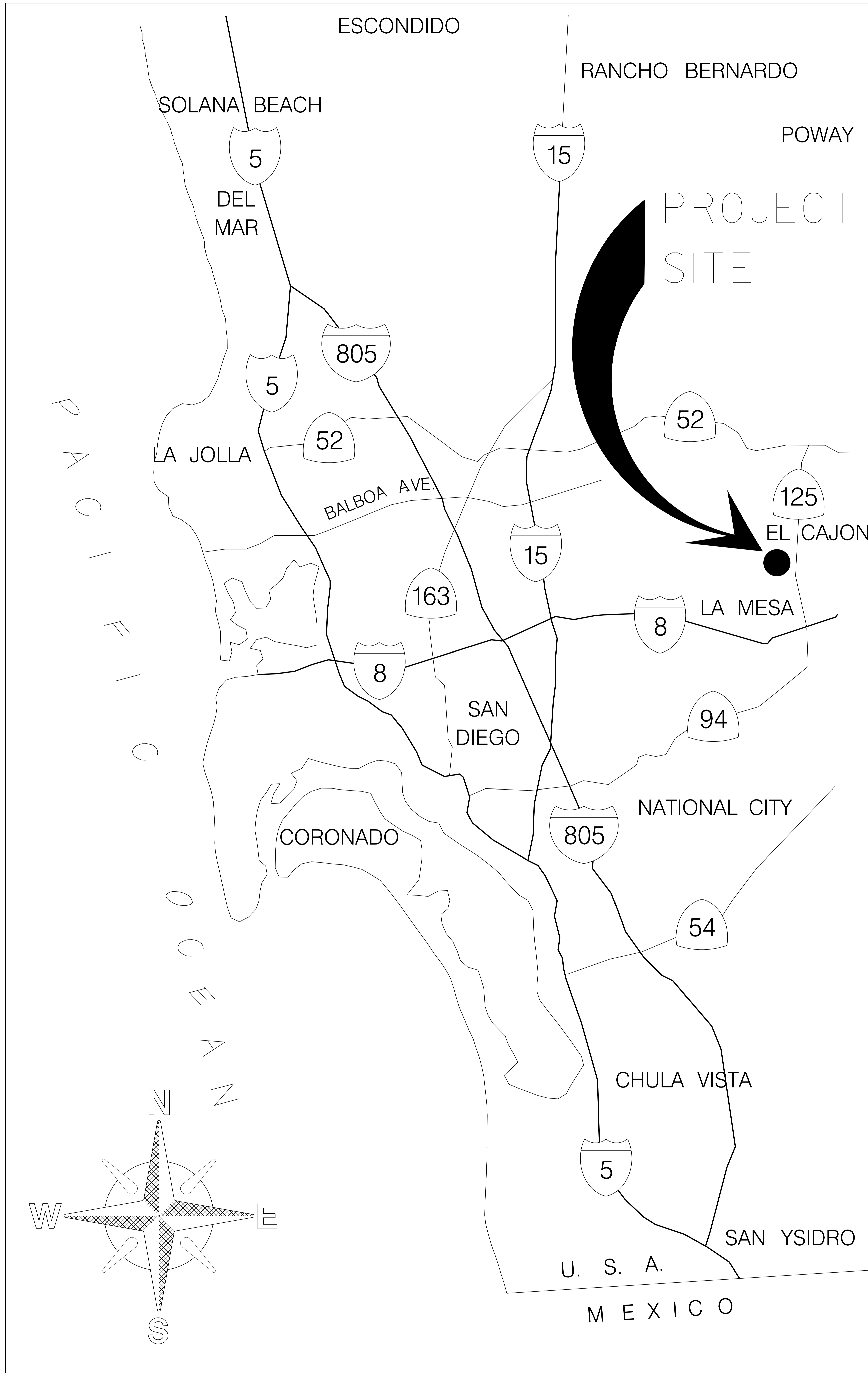
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Date: September 10, 2018  
 Pipeline Rehabilitation AQ-1 Appendix J - Site Maps



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# PIPELINE REHABILITATION AQ-1



## VICINITY MAP

NOT TO SCALE



MH ID:	MH IE:	MH DEPTH:	FSN:
CO2	786.81	7.00	131589
175	778.41	7.00	131588
73	767.78	7.00	131491
28	760.81	7.00	131453
30	749.05	16.00	131455
31	747.65	7.00	131456
8	746.56	7.00	131436
9	745.46	7.00	131437
CO1	748.00	7.00	131457
29	749.51	18.00	131454

**Legend**

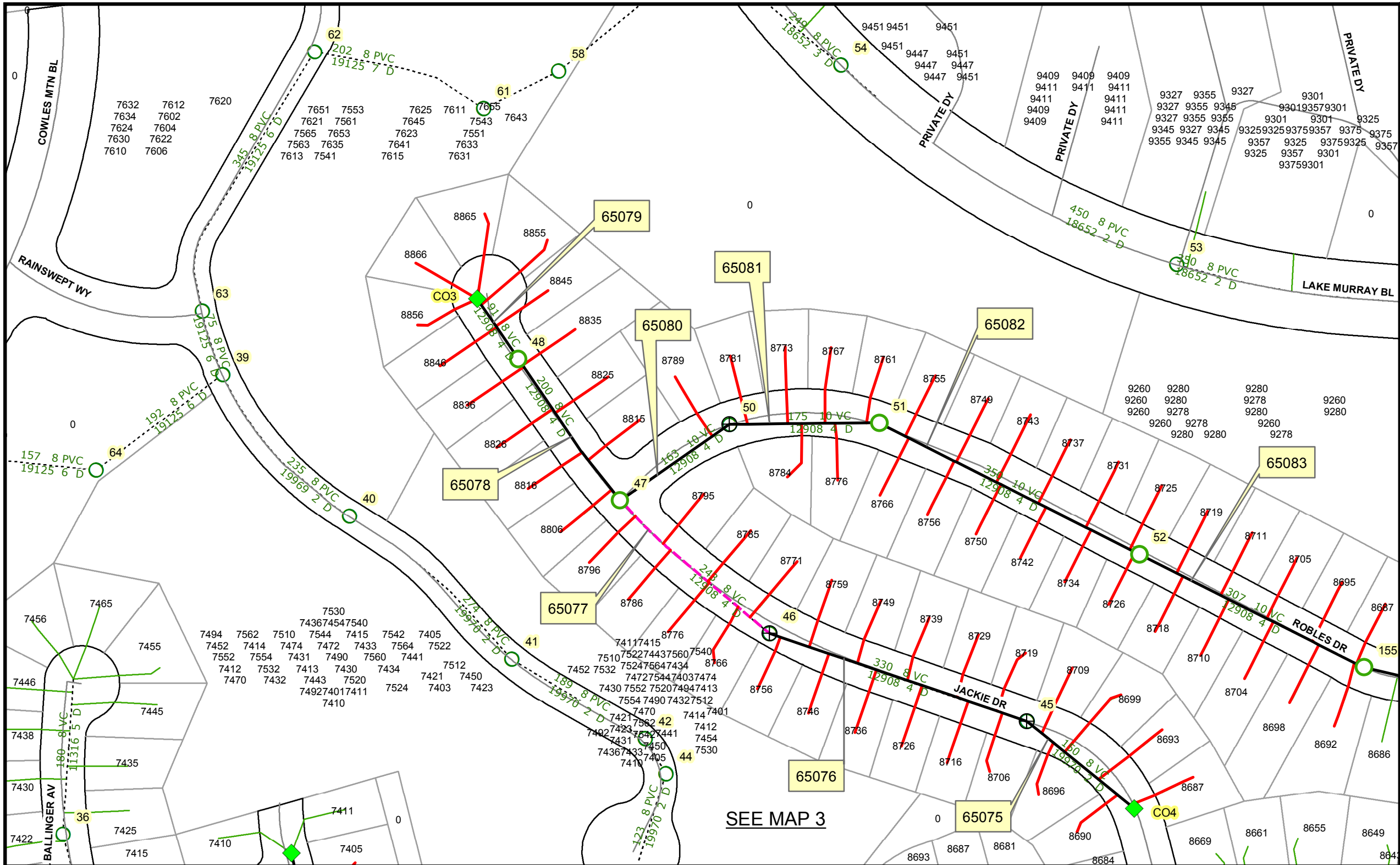
- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Swere Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)

123 MANHOLE ID NUMBER

NOT TO SCALE

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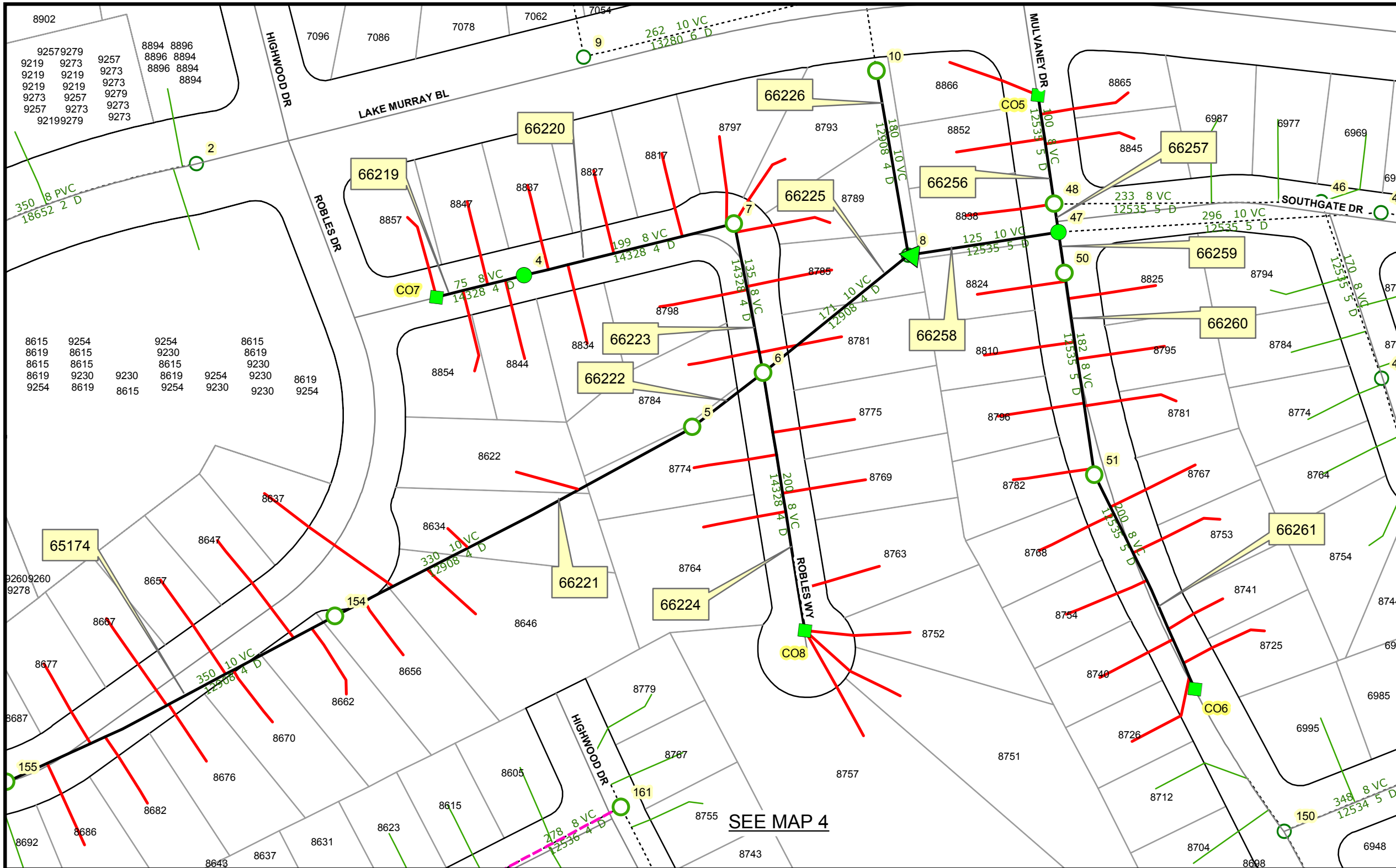
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50	726.40	4.00	131470
51	725.89	5.00	131471
52	724.83	13.00	131472
155	723.91	24.00	131569
CO4	739.68	10.00	131570
45	729.18	10.00	131465
46	727.86	5.00	131466

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**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- POINT\_REPAIR\_&\_REHAB
- Text
- MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB
- EX Sewer Mains
- 123
- FSN (Facility Sequence Number)
- 123
- MANHOLE ID NUMBER

NOT TO SCALE



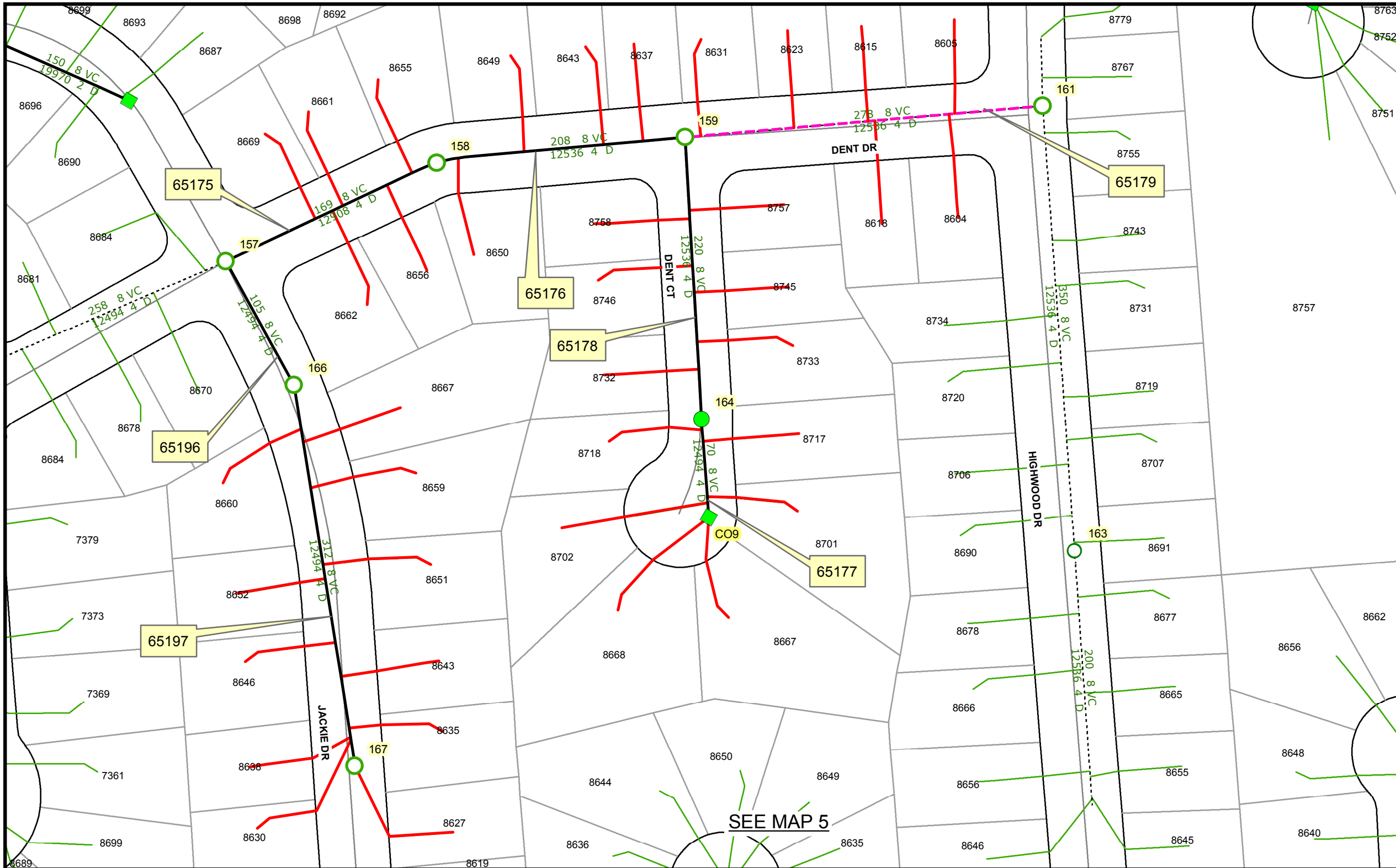
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5	715.10	6.00	132618
6	721.62	14.00	132619
8	714.34	30.00	132621
47	713.82	30.21	132651
CO7	724.14	3.00	132616
4	723.84	6.00	132617
7	723.04	12.00	132620
CO8	729.79	6.00	131567
10	714.88	25.00	132623
CO5	736.32	6.00	132653
48	735.82	8.00	132652
CO6	753.33	8.00	131566
51	743.33	8.00	132655
50	735.80	9.00	132654

**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB
- Text FSN (Facility Sequence Number)
- 123 MANHOLE ID NUMBER

NOT TO SCALE

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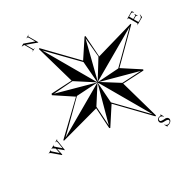


MH ID:	MH IE:	MH DEPTH:	FSN:
161	771.29	8.00	131575
159	767.68	6.00	131573
158	754.79	5.00	131572
157	754.12	5.00	131571
CO9	774.64	5.00	131578
164	772.96	5.00	131577
167	795.46	7.00	131580
166	756.21	10.00	131579

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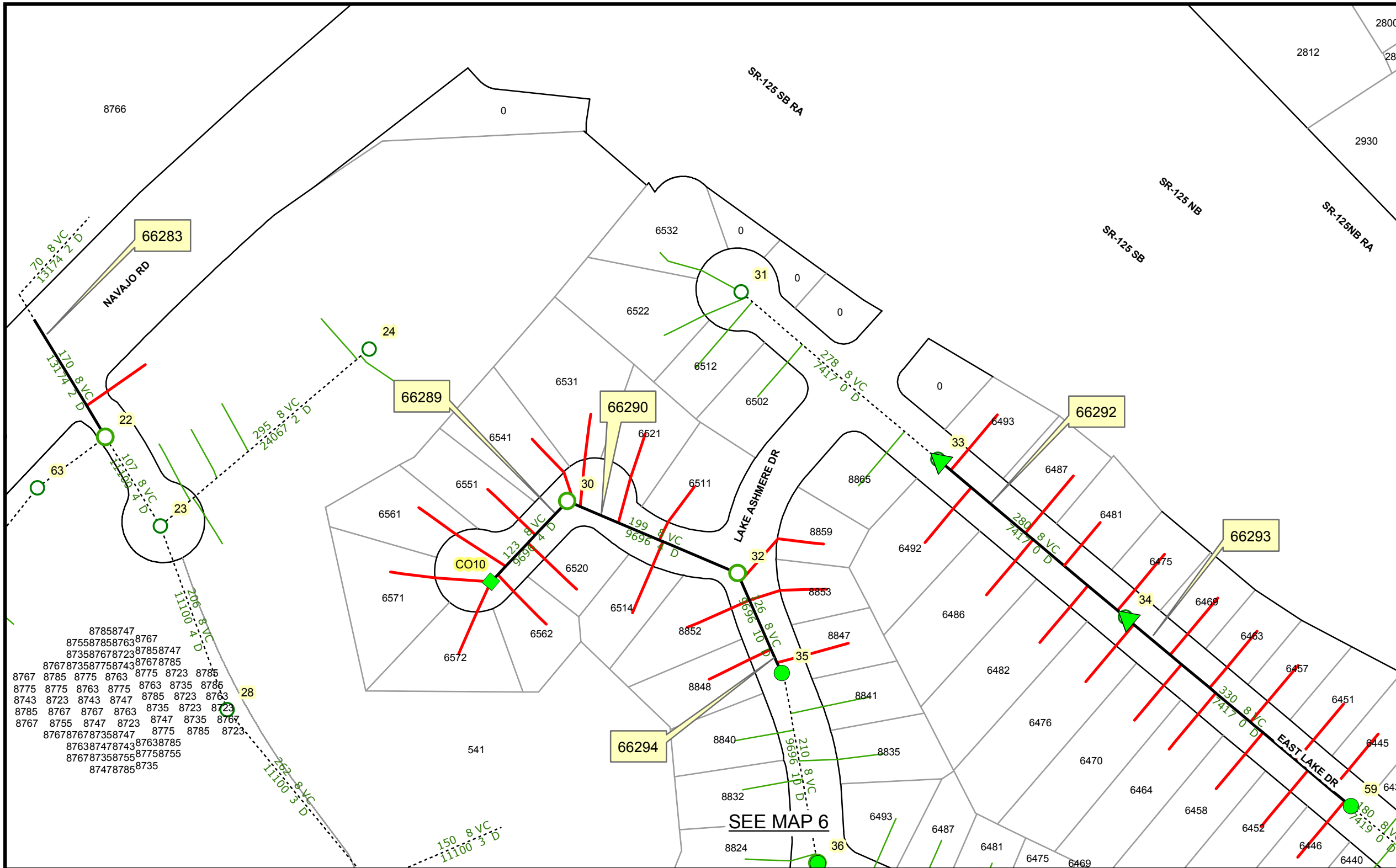
**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_
- EX Laterals
- MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB
- Text FSN (Facility Sequence Number)
- 123 MANHOLE ID NUMBER



NOT TO SCALE





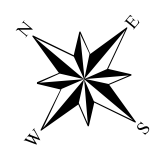
87858747  
 875587858763  
 873587678723  
 8767873587758743  
 8767878587758763  
 8767878587758763  
 87758775876387758763  
 8743872387438747878587238763  
 8785876787678763873587238723  
 8767875587478723874787358767  
 8767876787358747877587858723  
 87638747874387638785  
 87678735875587758755  
 874787858735

MH ID:	MH IE:	MH DEPTH:	FSN:
22	678.26	7.00	132677
CO10	757.40	6.00	132683
30	755.07	7.00	132684
32	751.30	6.00	132686
35	750.55	5.00	132689
33	734.89	9.00	132687
34	712.79	8.00	132688
59	710.81	8.00	132704

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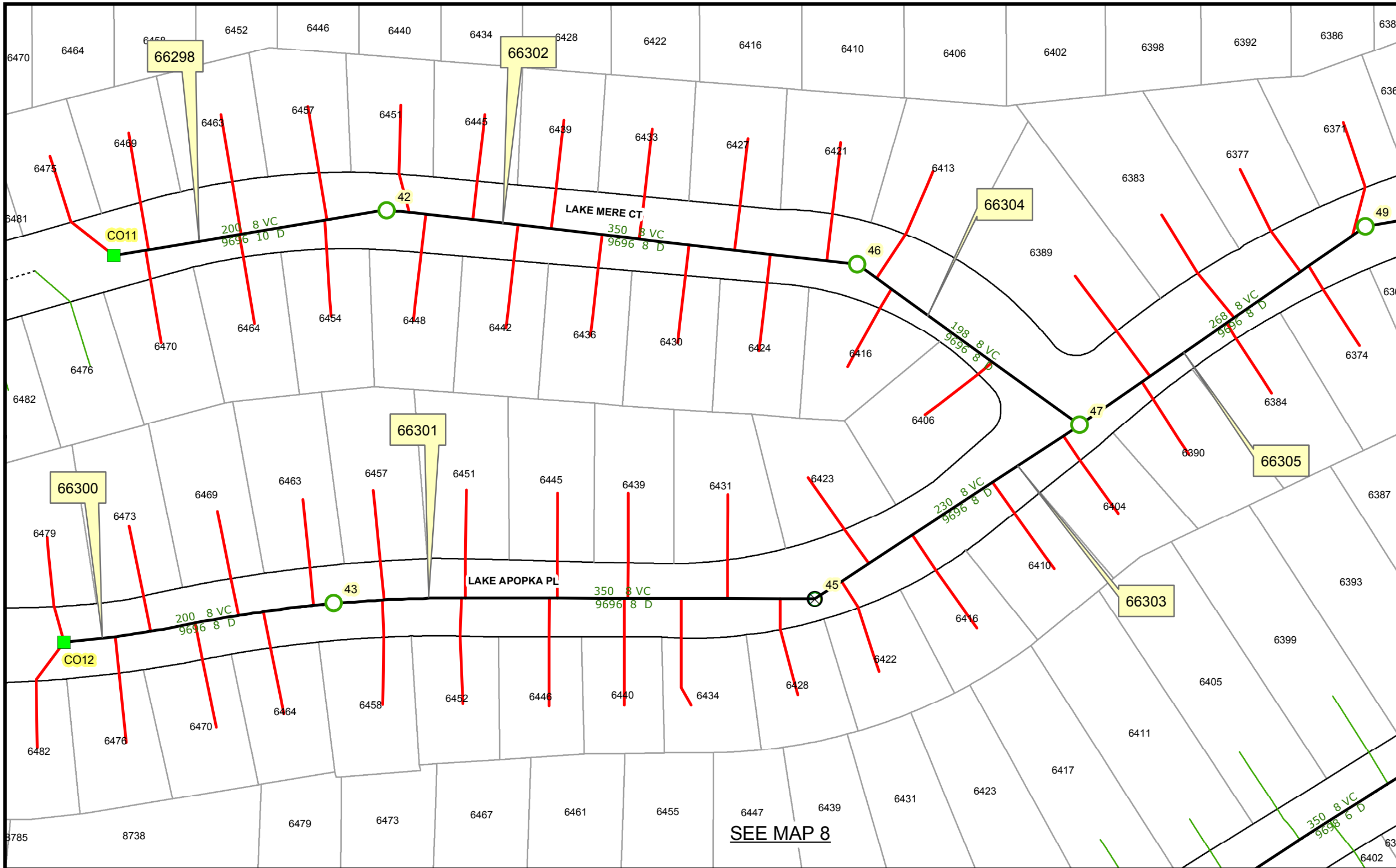
**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- Text FSN (Facility Sequence Number)
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB
- 123 MANHOLE ID NUMBER



NOT TO SCALE





MH ID:	MH IE:	MH DEPTH:	FSN:
CO11	751.13	7.00	132705
42	748.13	7.00	132694
46	735.88	8.00	132697
CO12	745.22	6.00	132693
43	741.22	6.00	132695
45	738.42	6.00	132696
47	728.97	8.00	132698
49	709.84	10.00	132700

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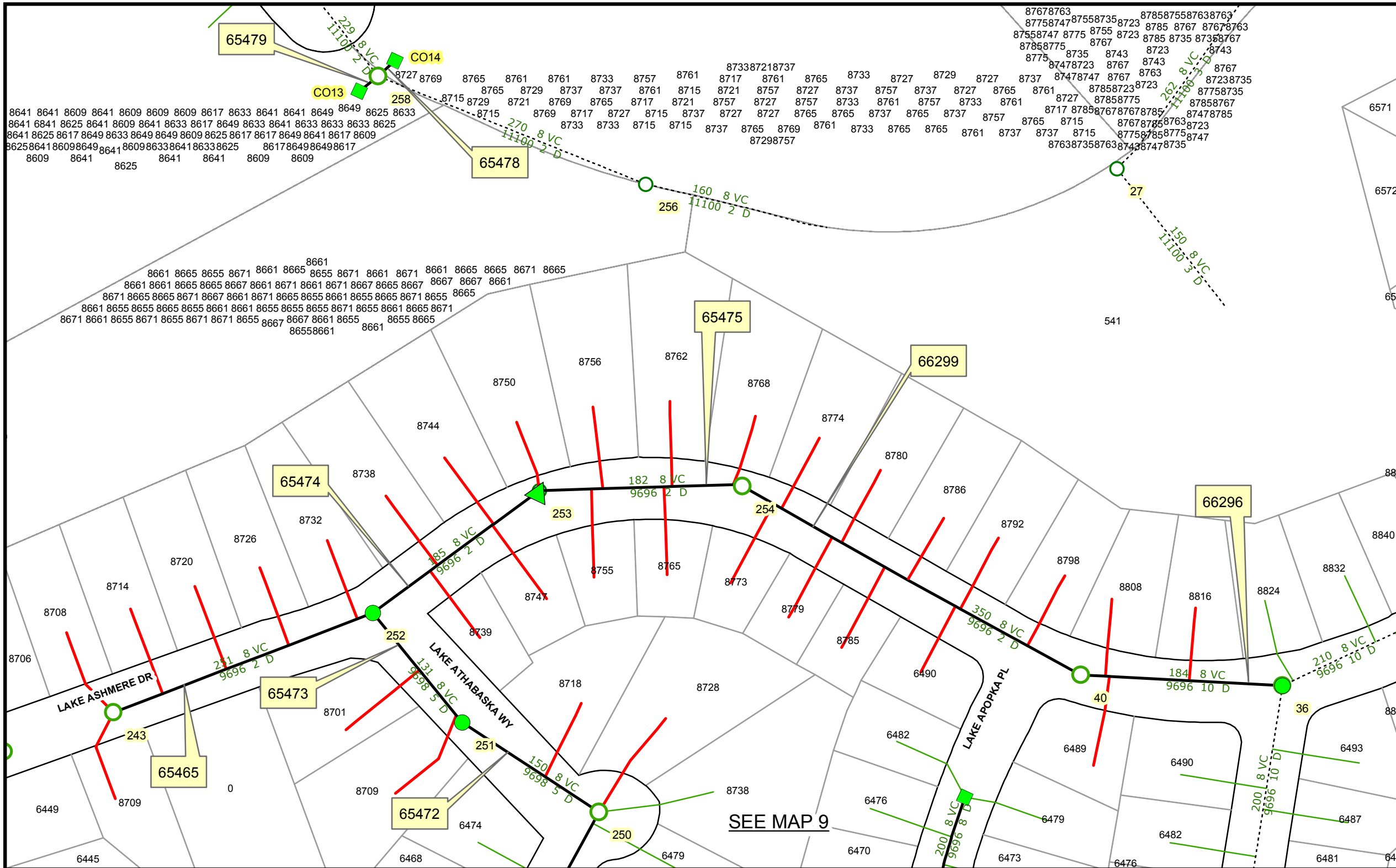
### Legend

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - POINT\_REPAIR\_&\_REHAB
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB
- - - - - EX Sewer Mains

Text FSN (Facility Sequence Number)

123 MANHOLE ID NUMBER

NOT TO SCALE



MH ID:	MH IE:	MH DEPTH:	FSN:
CO13	0	0	131870
258	681.85	8.0	131871
CO14	0	0	131872
243	725.79	6.00	131856
252	724.78	12.00	131865
251	722.16	10.00	131864
250	719.30	6.00	131863
36	749.28	6.00	132690
40	748.18	6.00	132692
254	746.08	6.00	131867
253	739.18	7.00	131866

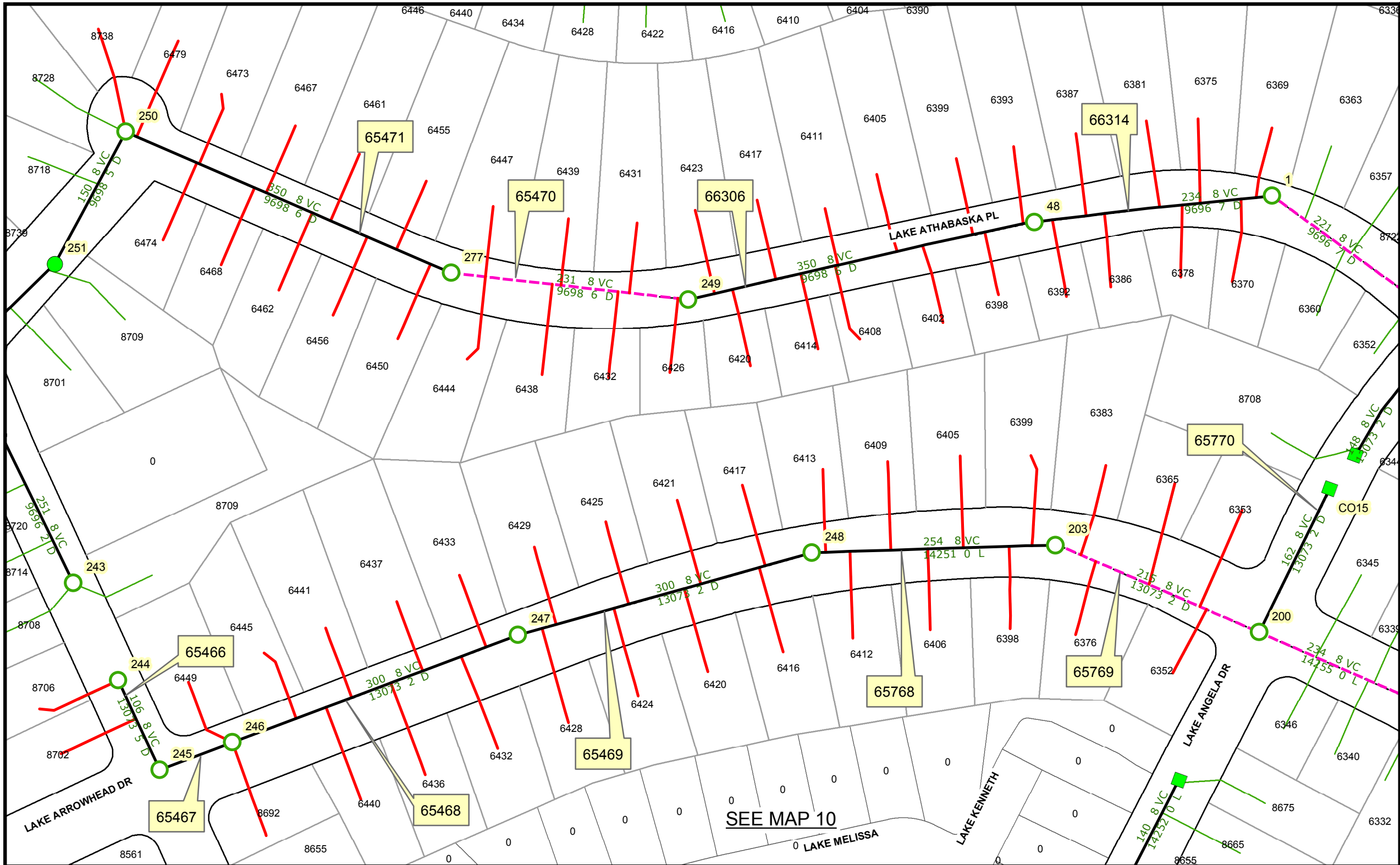
**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - POINT\_REPAIR\_REHAB
- - - EX Sewer Mains
- ▲ MH\_REPAIR\_REHAB
- SEWER\_REHAB

Text: 123 MANHOLE ID NUMBER

NOT TO SCALE

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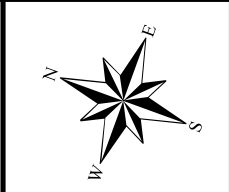


MH ID:	MH IE:	MH DEPTH:	FSN:
250	719.30	6.00	131863
277	699.35	7.00	131890
249	690.10	6.00	131862
48	675.05	7.00	132699
1	664.98	8.00	132706
244	717.83	7.00	131857
245	708.65	6.00	131858
246	706.21	8.00	131859
247	687.01	9.00	131860
248	670.09	8.00	131861
203	647.78	9.00	132169
200	646.92	4.00	132166
CO15	642.15	8.00	132170

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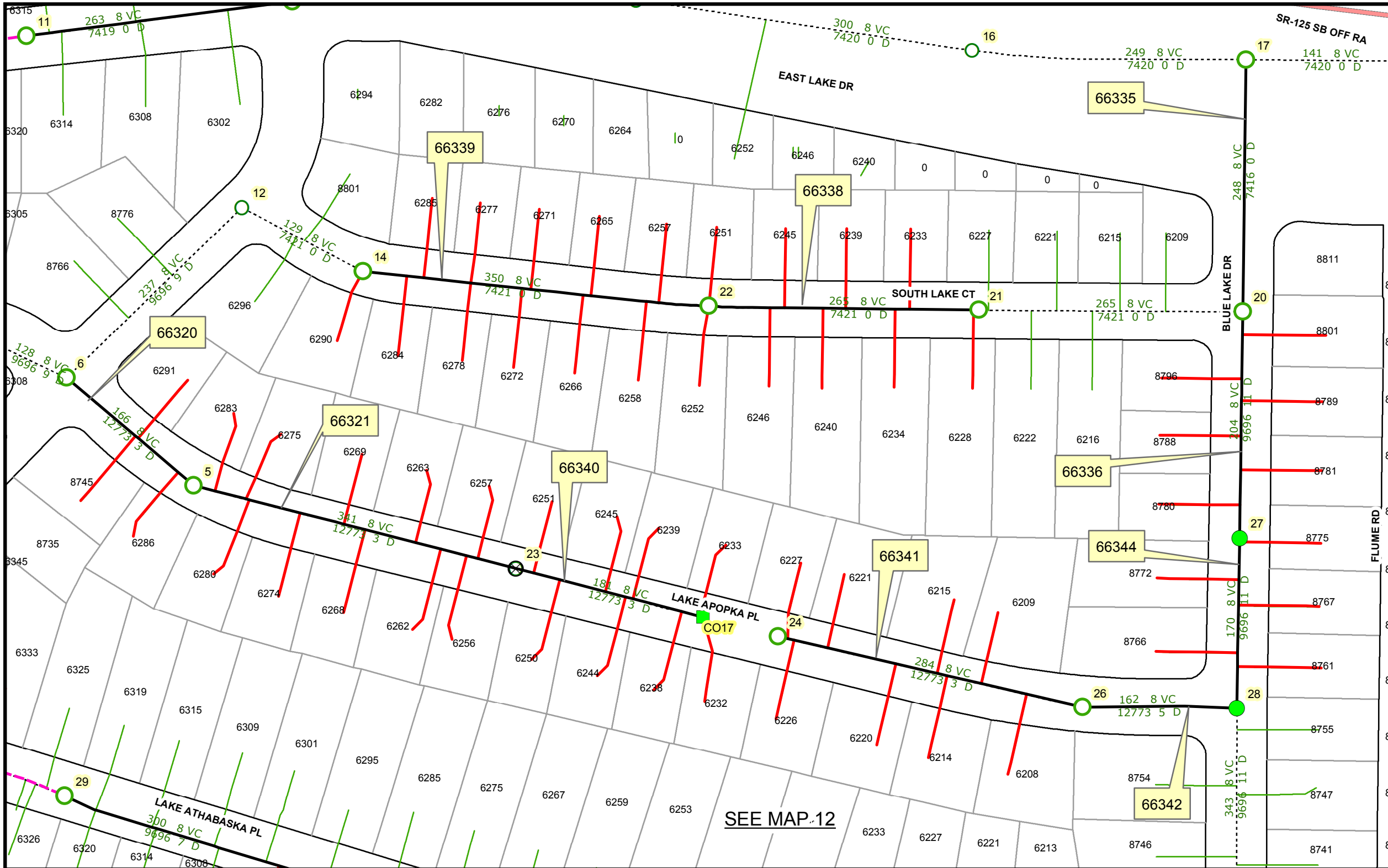
## Legend

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR & REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR & REHAB
- SEWER\_REHAB
- Text FSN (Facility Sequence Number)
- 123 MANHOLE ID NUMBER



NOT TO SCALE





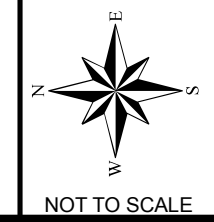
MH ID:	MH IE:	MH DEPTH:	FSN:
CO17	697.81	7.00	132729
23	693.98	9.00	132727
5	686.74	8.00	132710
6	683.23	15.00	132711
14	663.71	7.00	132718
22	660.46	6.00	132726
21	645.88	6.00	132725
24	693.95	8.00	132728
26	667.79	7.00	132730
28	641.02	27.00	132732
27	633.51	25.00	132731
20	632.63	14.00	132724
17	631.64	7.00	132721

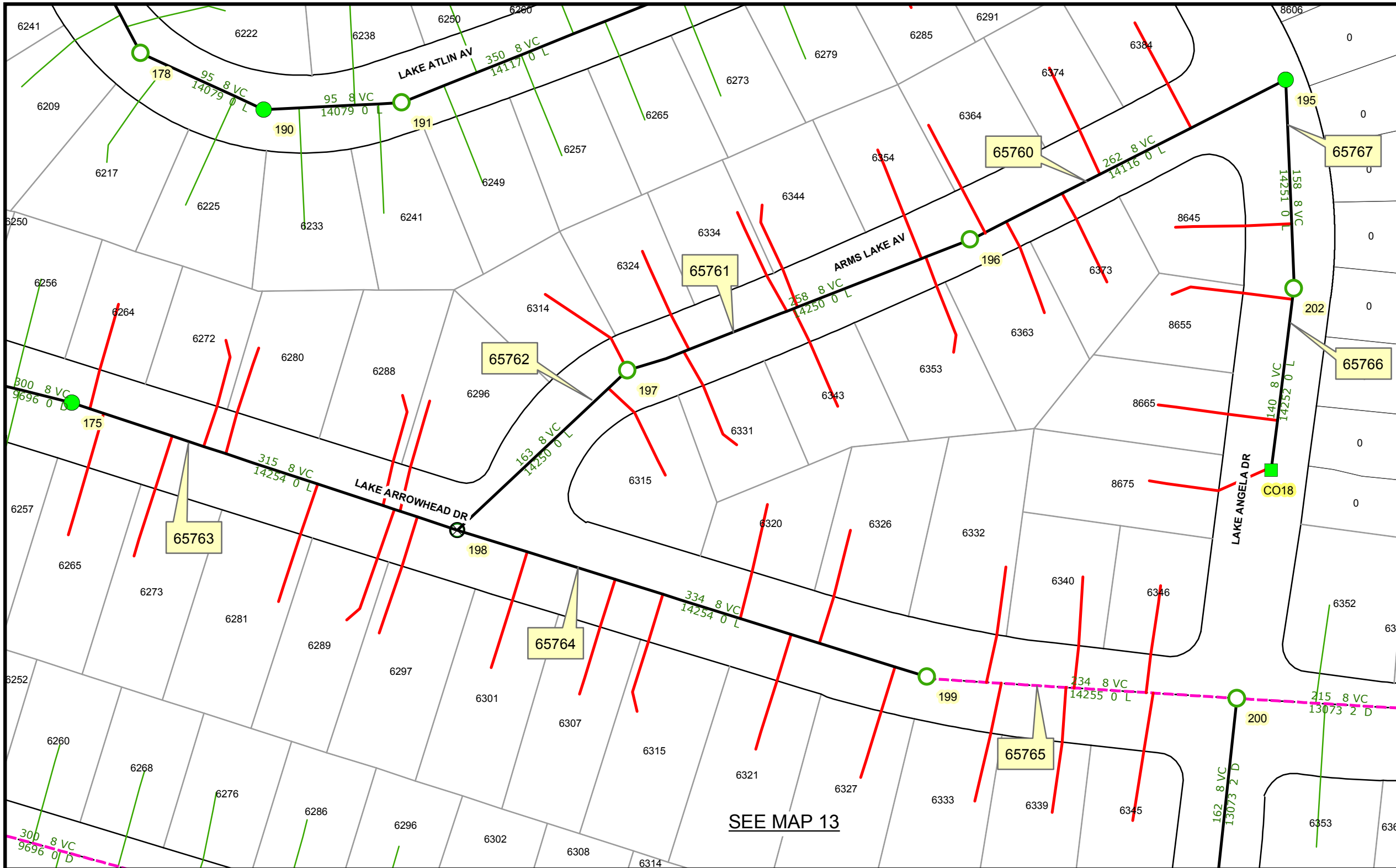
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**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)  
 123 MANHOLE ID NUMBER





MH ID:	MH IE:	MH DEPTH:	FSN:
CO18	643.56	6.00	132167
202	641.88	7.00	132168
195	639.53	7.00	132161
196	636.84	7.00	132162
197	634.26	6.00	132163
198	632.62	6.00	132164
175	629.02	7.00	132142
200	646.92	4.00	132166
199	639.62	6.00	132165

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**Legend**

<span style="color: green;">■</span> NEW_CLEANOUT	<span style="color: green;">●</span> MH_REHAB	<span style="color: red;">—</span> SEWER_LATERAL_REHAB_	<span style="color: green;">—</span> EX Laterals
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">⊗</span> MH_REPLACE	<span style="border: 1px solid green; border-radius: 50%; padding: 2px;">○</span> EX_MH_(NO_WORK_PER_PUD)	<span style="color: magenta;">- - -</span> POINT_REPAIR_&_REHAB	<span style="color: black;">- - - - -</span> EX Sewer Mains
<span style="color: green;">▲</span> MH_REPAIR_&_REHAB	<span style="color: black;">—</span> SEWER_REHAB	<span style="border: 1px solid black; padding: 2px;">Text</span> FSN (Facility Sequence Number)	123 MANHOLE ID NUMBER





MH ID:	MH IE:	MH DEPTH:	FSN:
179	619.08	6.00	132146
177	616.32	6.00	132144
169	613.02	8.00	132136
168	612.46	13.00	132135
175	629.02	7.00	132142
176	625.54	8.00	132143
170	621.41	8.00	132137

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**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_\_
- EX Laterals
- MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- POINT\_REPAIR\_&\_REHAB
- EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)

123 MANHOLE ID NUMBER

NOT TO SCALE



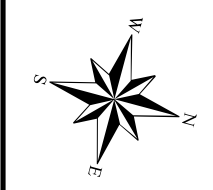
MH ID:	MH IE:	MH DEPTH:	FSN:
187	638	8.00	132154
188	631.08	10.00	132155
189	626.08	8.00	132156
179	619.08	6.00	132146
193	640.01	7.00	132160
192	633.01	8.00	132159
191	626.01	7.00	132158
190	624.02	6.00	132157
178	622.08	6.00	132145

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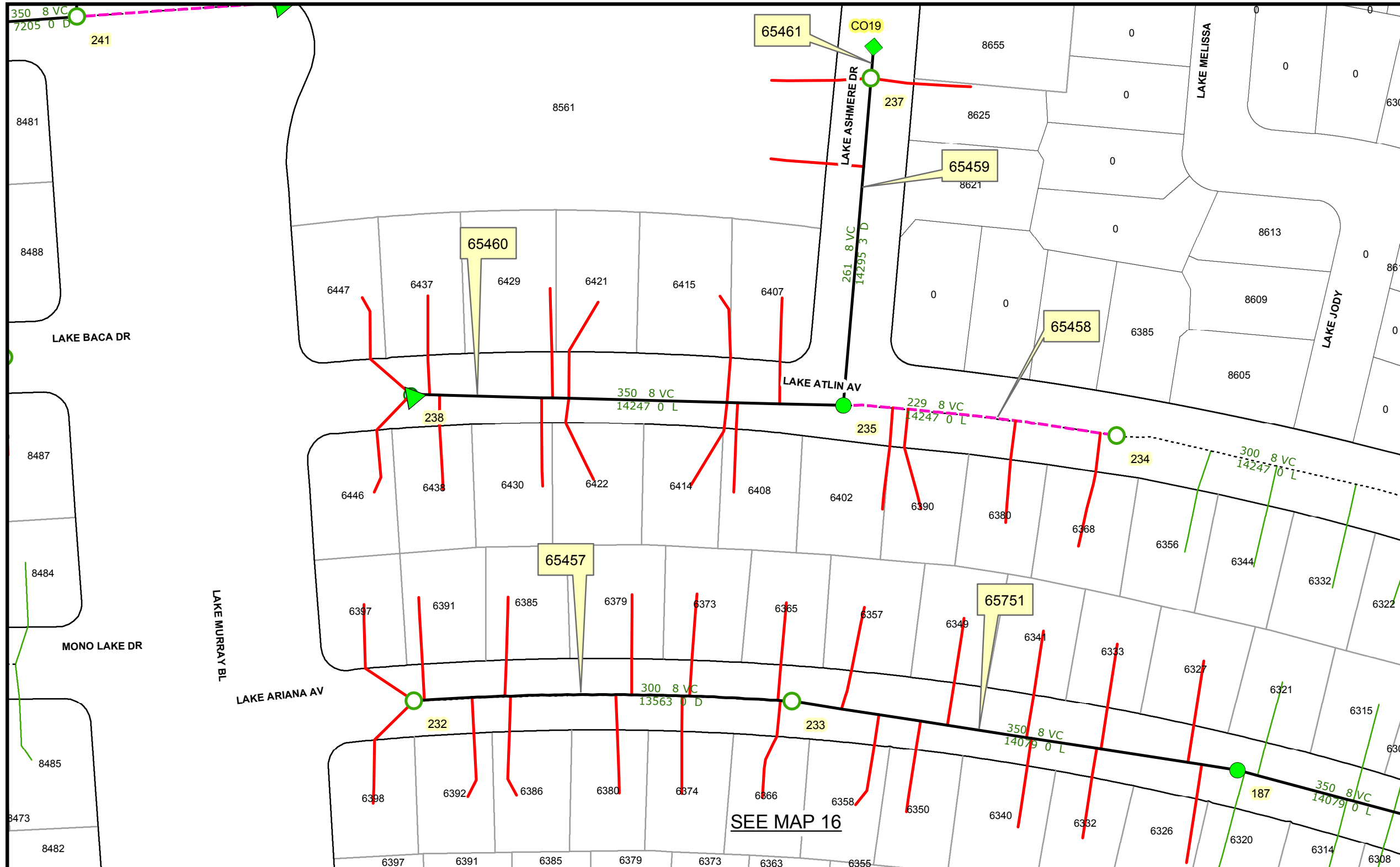
SEE MAP 15

**Legend**

- NEW\_CLEANOUT
 ● MH\_REHAB
— SEWER\_LATERAL\_REHAB\_
— EX Laterals
  - ⊗ MH\_REPLACE
 ○ EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
  - ▲ MH\_REPAIR\_&\_REHAB
 — SEWER\_REHAB
- Text FSN (Facility Sequence Number)  
 123 MANHOLE ID NUMBER



NOT TO SCALE

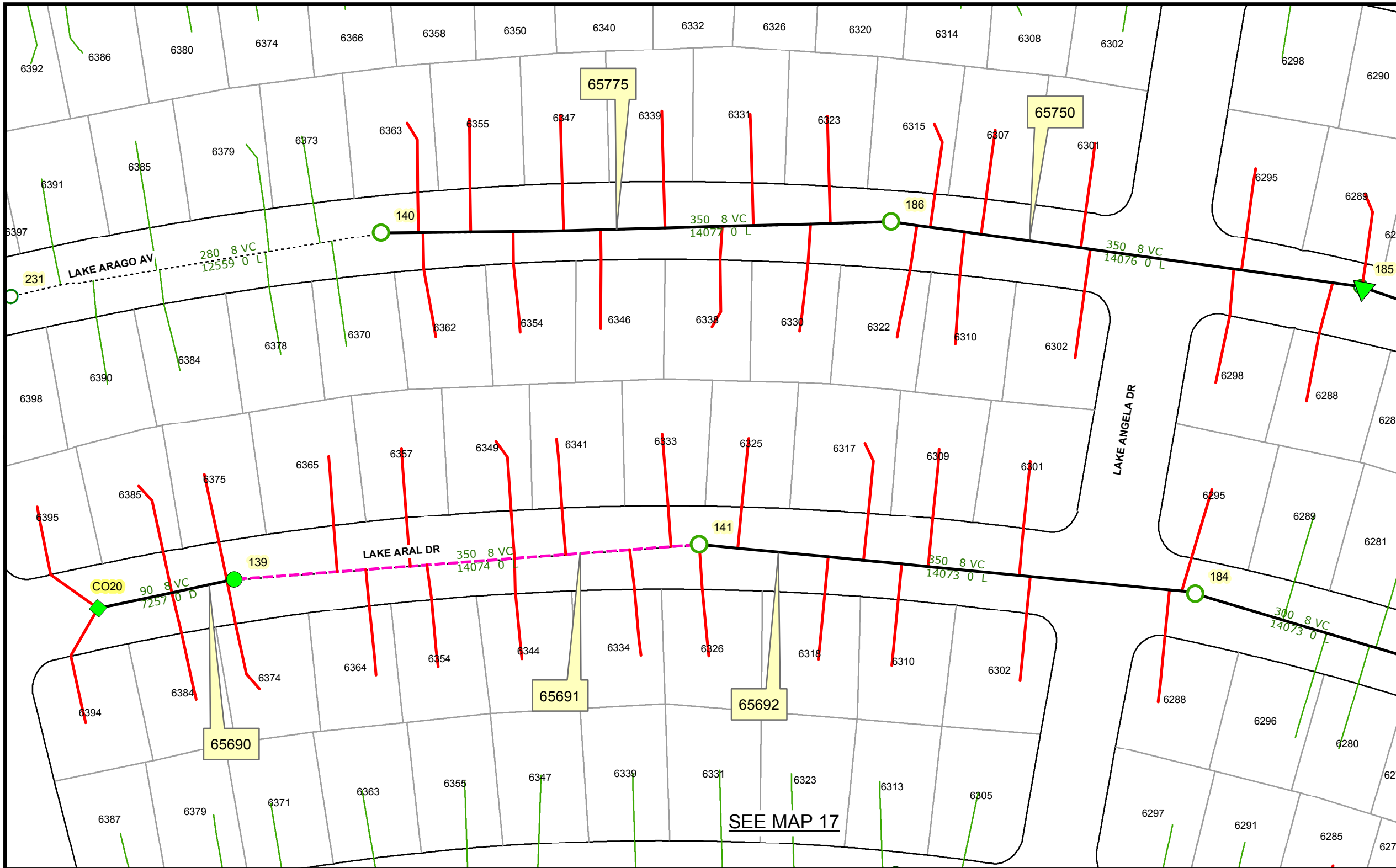


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**Legend**

<span style="color: green;">■</span> NEW_CLEANOUT	<span style="color: green;">●</span> MH_REHAB	<span style="color: red;">—</span> SEWER_LATERAL_REHAB	<span style="color: green;">—</span> EX Laterals
<span style="border: 1px solid black; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> MH_REPLACE	<span style="border: 1px solid black; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> EX_MH_(NO_WORK_PER_PUD)	<span style="color: red;">- - - - -</span> POINT_REPAIR_REHAB	<span style="color: black;">- - - - -</span> EX Sewer Mains
<span style="color: green;">▲</span> MH_REPAIR_REHAB	<span style="color: black;">—</span> SEWER_REHAB	<span style="border: 1px solid black; padding: 2px;">Text</span> FSN (Facility Sequence Number)	123 MANHOLE ID NUMBER

NOT TO SCALE



MH ID:	MH IE:	MH DEPTH:	FSN:
140	640.46	7.00	132107
186	634.37	6.00	132153
185	630.87	5.00	132152
CO20	638.89	7.00	132105
139	637.81	6.00	132106
141	633.61	6.00	132108
184	630.81	5.00	132151

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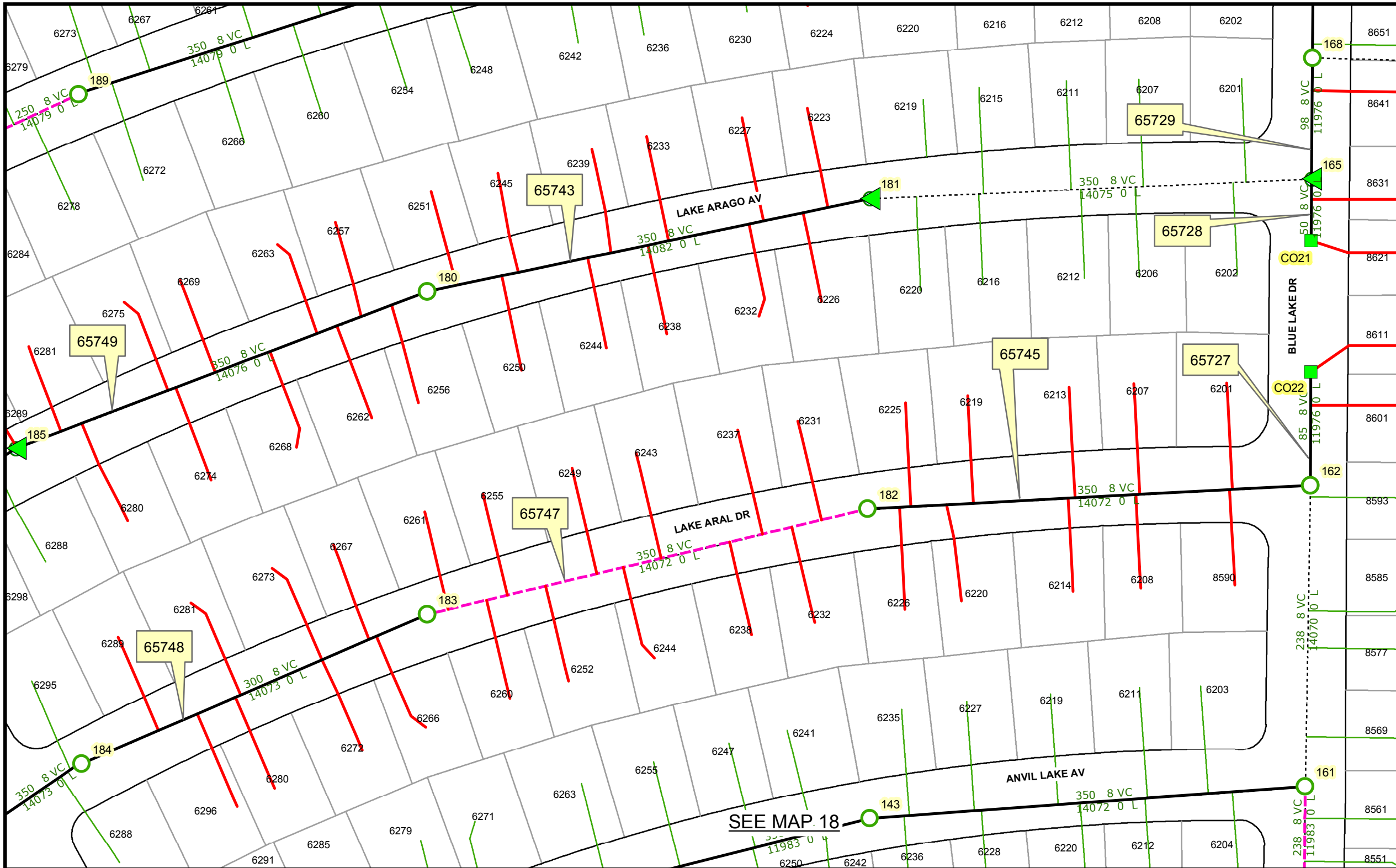
SEE MAP 17

**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_
- EX Laterals
- Text FSN (Facility Sequence Number)
- 123 MANHOLE ID NUMBER
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB



NOT TO SCALE



MH ID:	MH IE:	MH DEPTH:	FSN:
185	630.87	5.00	132152
180	627.37	6.00	132147
181	623.87	6.00	132148
CO 21	622.30	5.00	132131
165	620.30	6.00	132132
168	612.46	13.00	132135
184	630.81	5.00	132151
183	628.41	5.00	132150
182	625.61	6.00	132149
162	622.81	6.00	132129
CO 22	623.17	3.00	132130

**Legend**

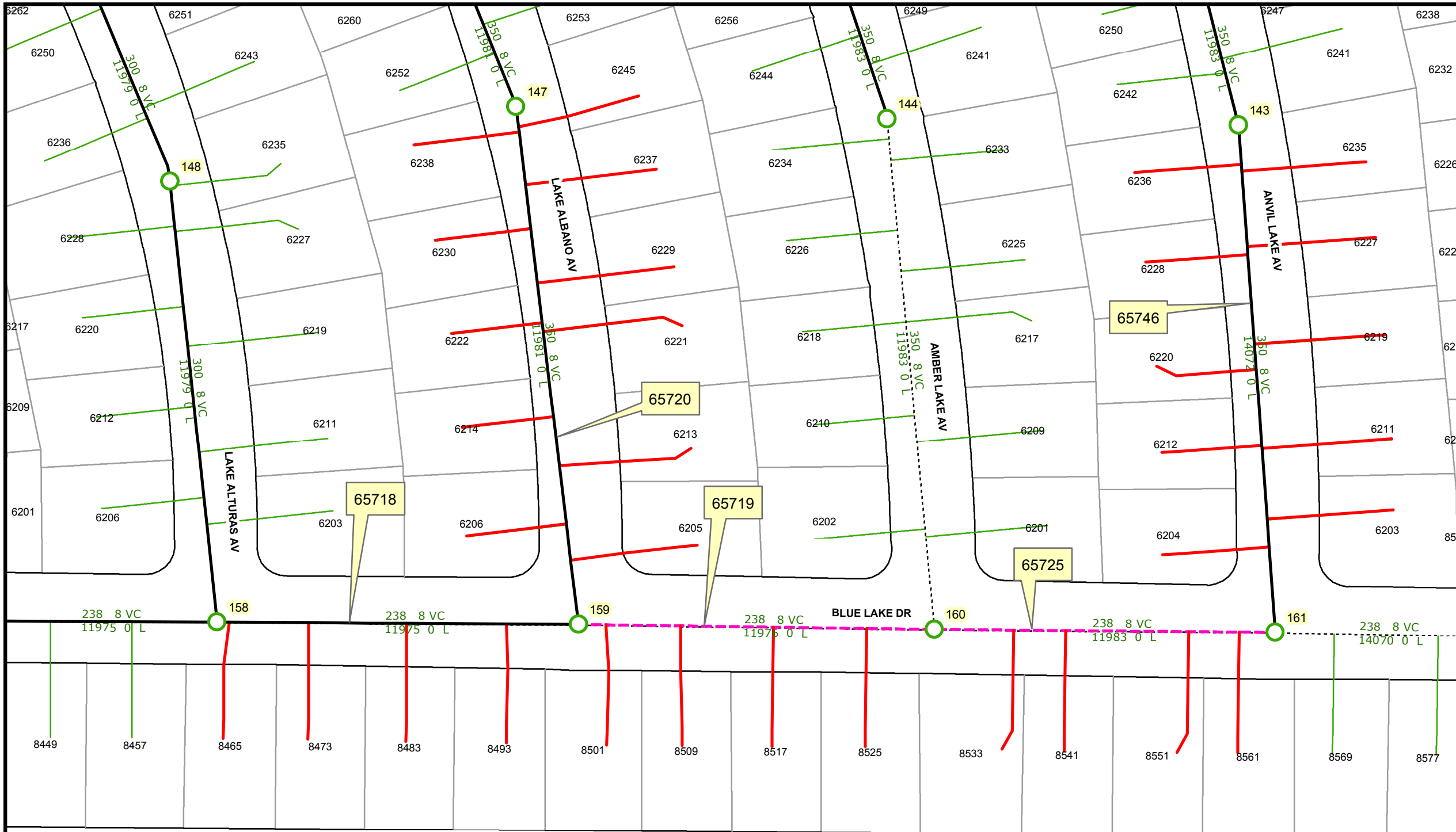
- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)

123 MANHOLE ID NUMBER

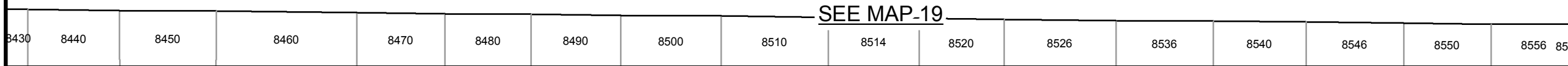
NOT TO SCALE

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MH ID:	MH IE:	MH DEPTH:	FSN:
143	621.08	3.00	132110
161	618.28	6.00	132128
160	617.33	3.00	132127
159	616.38	4.74	132126
158	615.42	8.00	132125
147	617.78	8.00	132114

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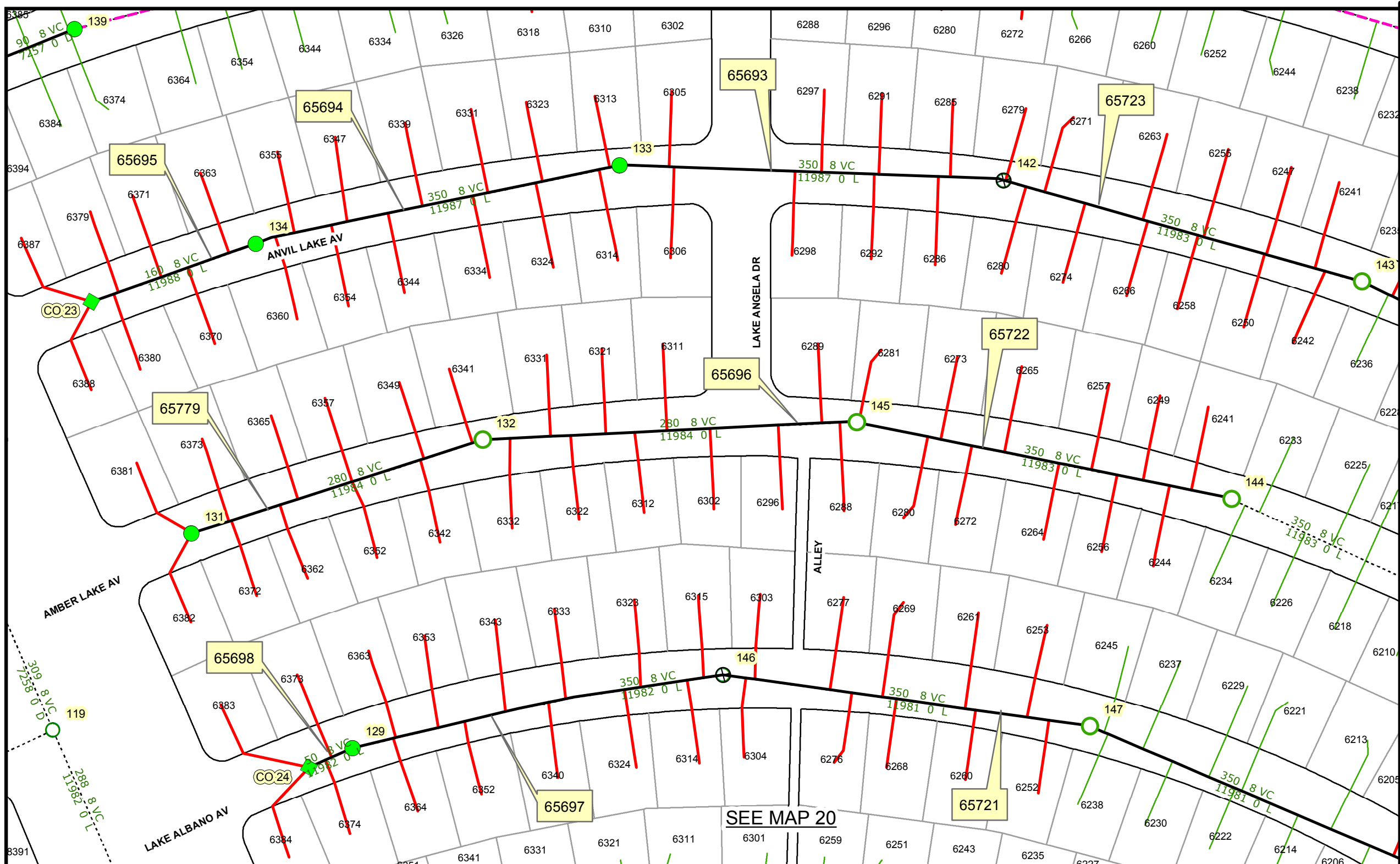
### Legend

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text

 FSN (Facility Sequence Number)  
 123 MANHOLE ID NUMBER

NOT TO SCALE



MH ID:	MH IE:	MH DEPTH:	FSN:
CO 23	633.72	6.00	132104
134	632.28	6.00	132103
133	629.13	7.00	132102
142	623.88	6.00	132109
143	621.08	3.00	132110
131	630.14	6.00	132100
132	626.78	6.00	132101
145	620.83	7.00	132112
144	618.73	5.00	132111
CO 24	625.98	6.00	132099
129	623.73	7.00	132098
146	620.23	6.00	132113
147	617.78	8.00	132114

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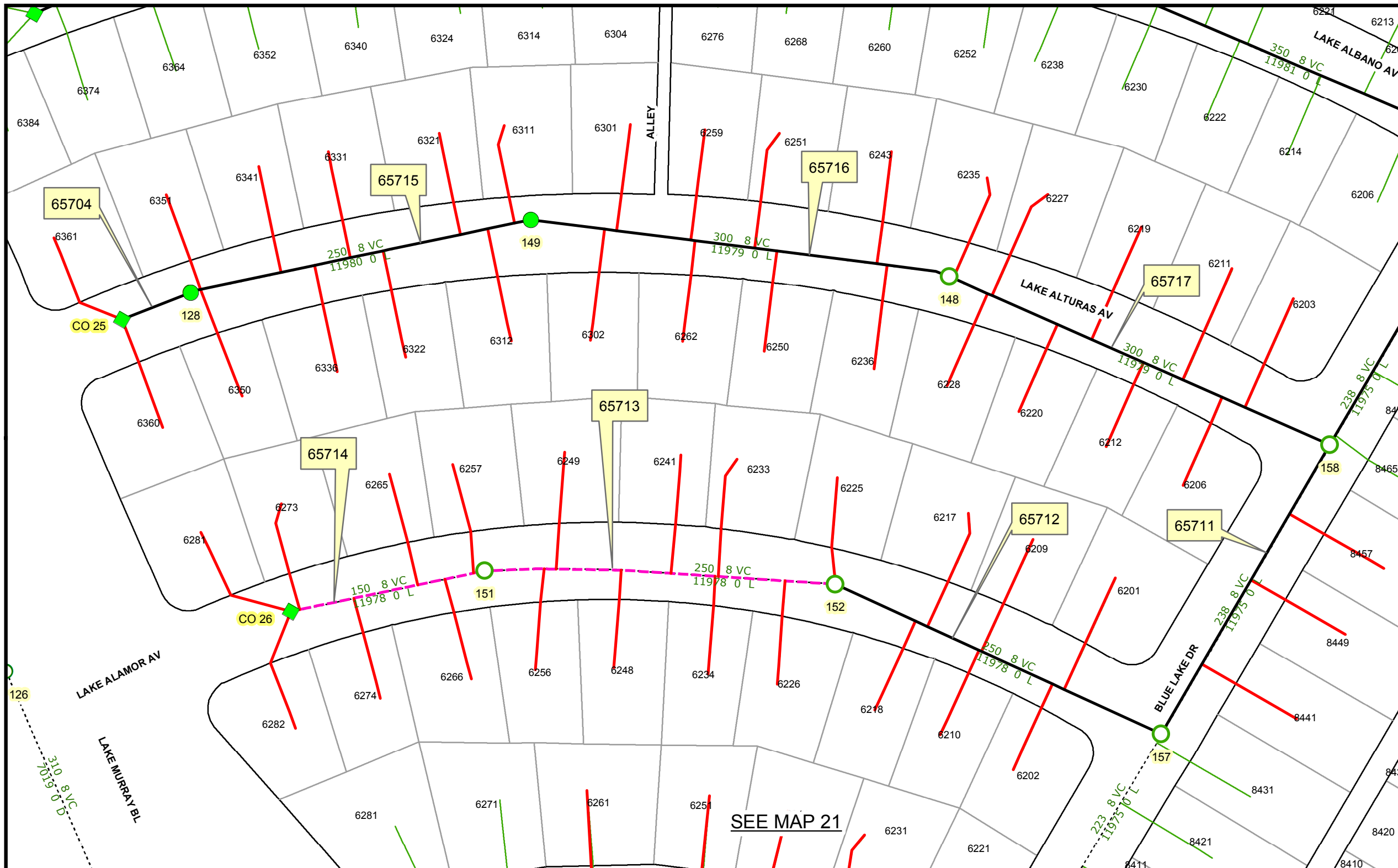
**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_\_
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)

123 MANHOLE ID NUMBER

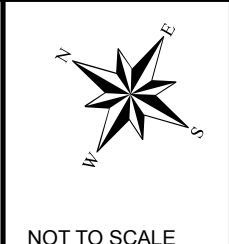
NOT TO SCALE



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**Legend**

	NEW_CLEANOUT		MH_REHAB		SEWER_LATERAL_REHAB		EX Laterals
	MH_REPLACE		EX_MH_(NO_WORK_PER_PUD)		POINT_REPAIR_&_REHAB		FSN (Facility Sequence Number)
	MH_REPAIR_&_REHAB		SEWER_REHAB		EX Sewer Mains		123 MANHOLE ID NUMBER





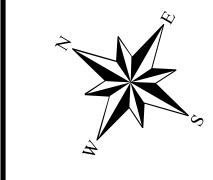


MH ID:	MH IE:	MH DEPTH:	FSN:
CO 27	620.86	7.00	132120
154	620.54	7.00	132121
85	620.58	6.00	132059
155	613.58	12.00	132122
156	612.98	18.00	132123
209	606.19	21.00	132173

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**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_\_
- EX Laterals
- MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- POINT\_REPAIR\_&\_REHAB
- Text FSN (Facility Sequence Number)
- MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB
- EX Sewer Mains
- 123 MANHOLE ID NUMBER



NOT TO SCALE



MH ID:	MH IE:	MH DEPTH:	FSN:
CO 28	660.83	6.00	131824
213	660.39	7.00	131826
CO 29	662.37	6.0	131853
239	661.87	7.00	131852
241	660.92	6.00	131854
214	658.82	6.00	131827
209	654.50	7.00	131822
CO 30	664.92	6.00	131855

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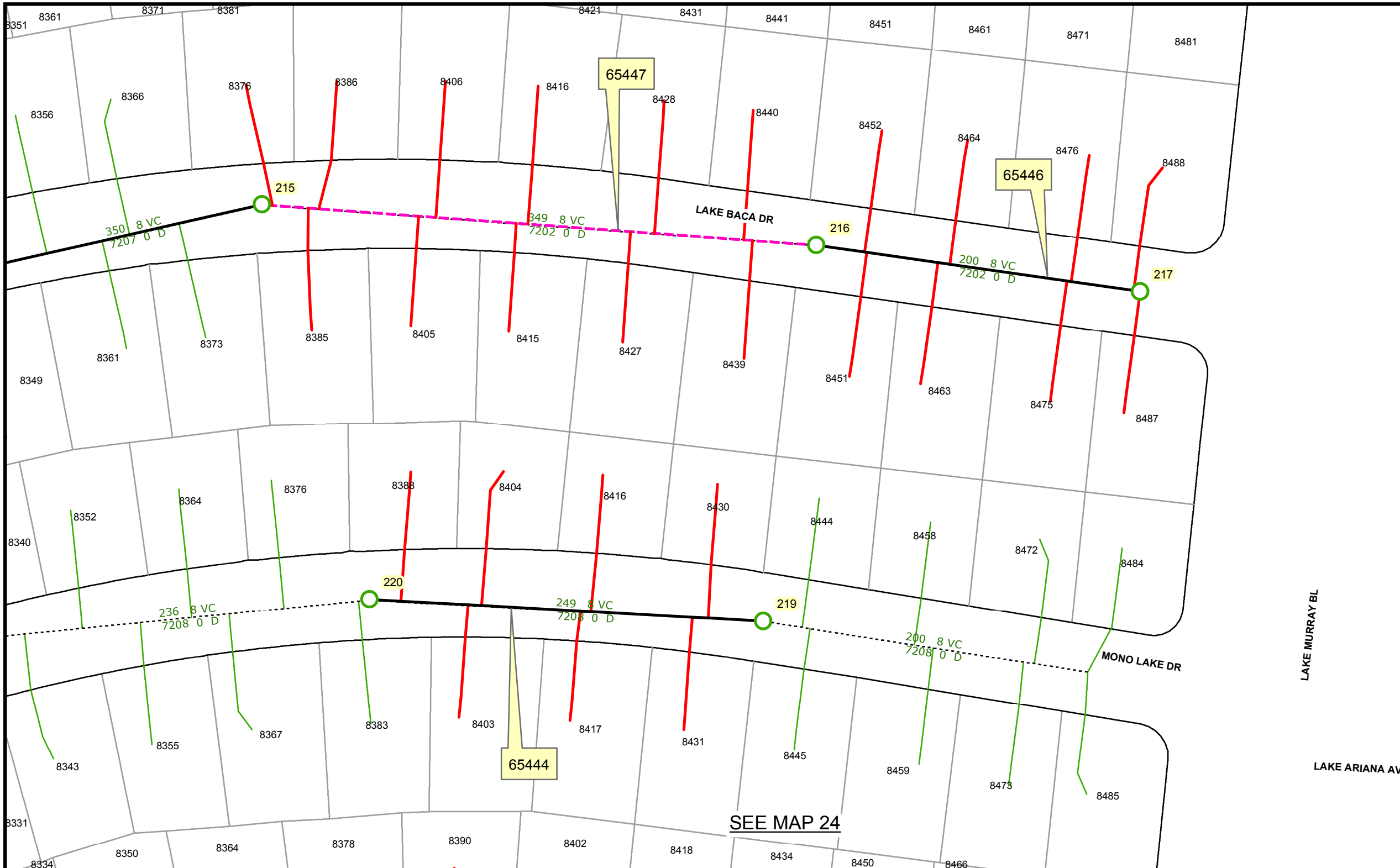
**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH(NO\_WORK\_PER\_PUD)
- POINT\_REPAIR\_&\_REHAB
- EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)

123 MANHOLE ID NUMBER

NOT TO SCALE



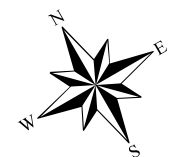
MH ID:	MH IE:	MH DEPTH:	FSN:
217	664.12	6.00	131830
216	663.32	6.00	131829
215	650.06	7.00	131828
219	661.63	12.00	131832
220	657.39	8.00	131833

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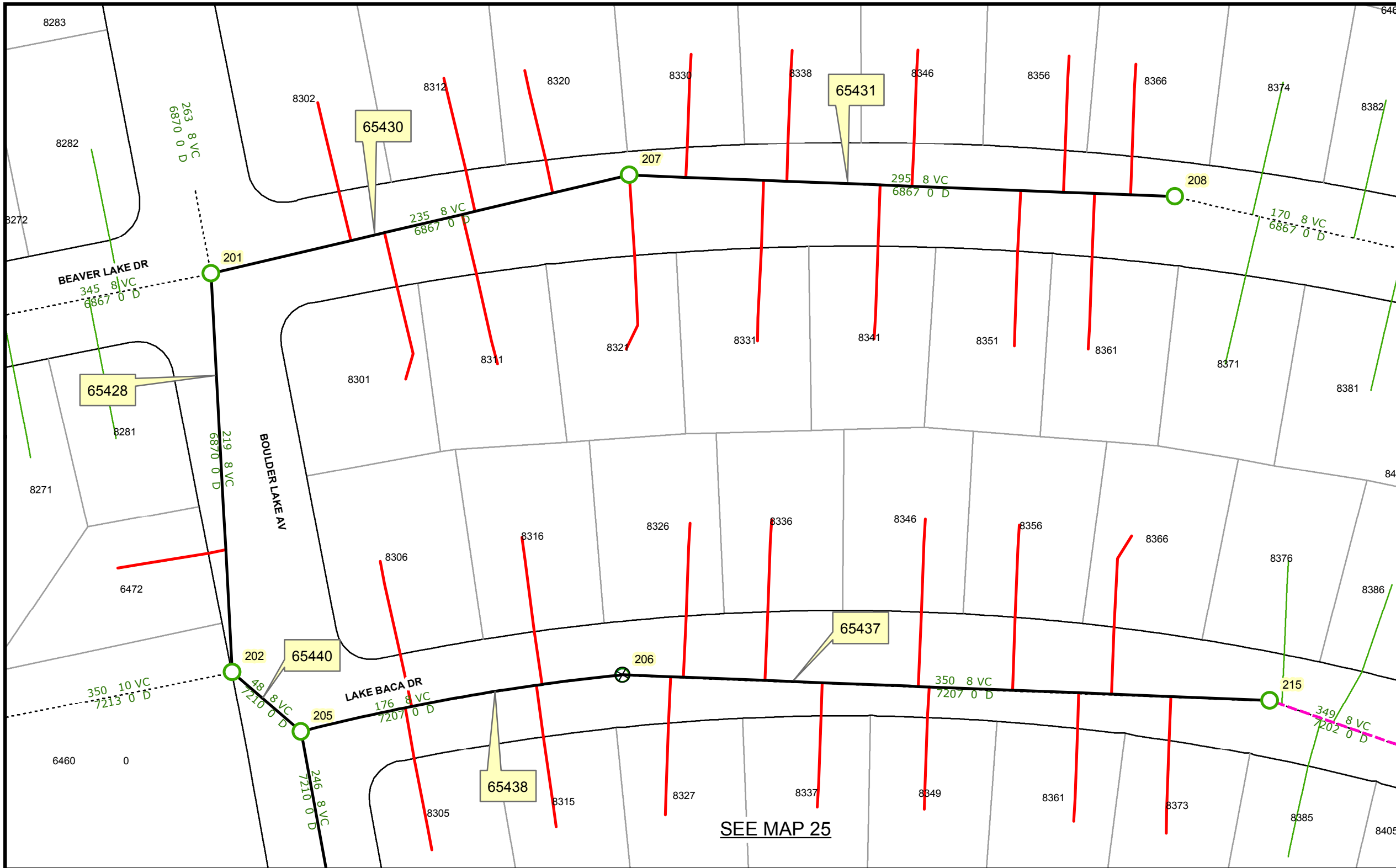
**Legend**

- NEW\_CLEANOUT
- MH\_REHAB
- SEWER\_LATERAL\_REHAB
- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- POINT\_REPAIR\_&\_REHAB
- EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)  
123 MANHOLE ID NUMBER



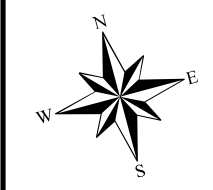
NOT TO SCALE



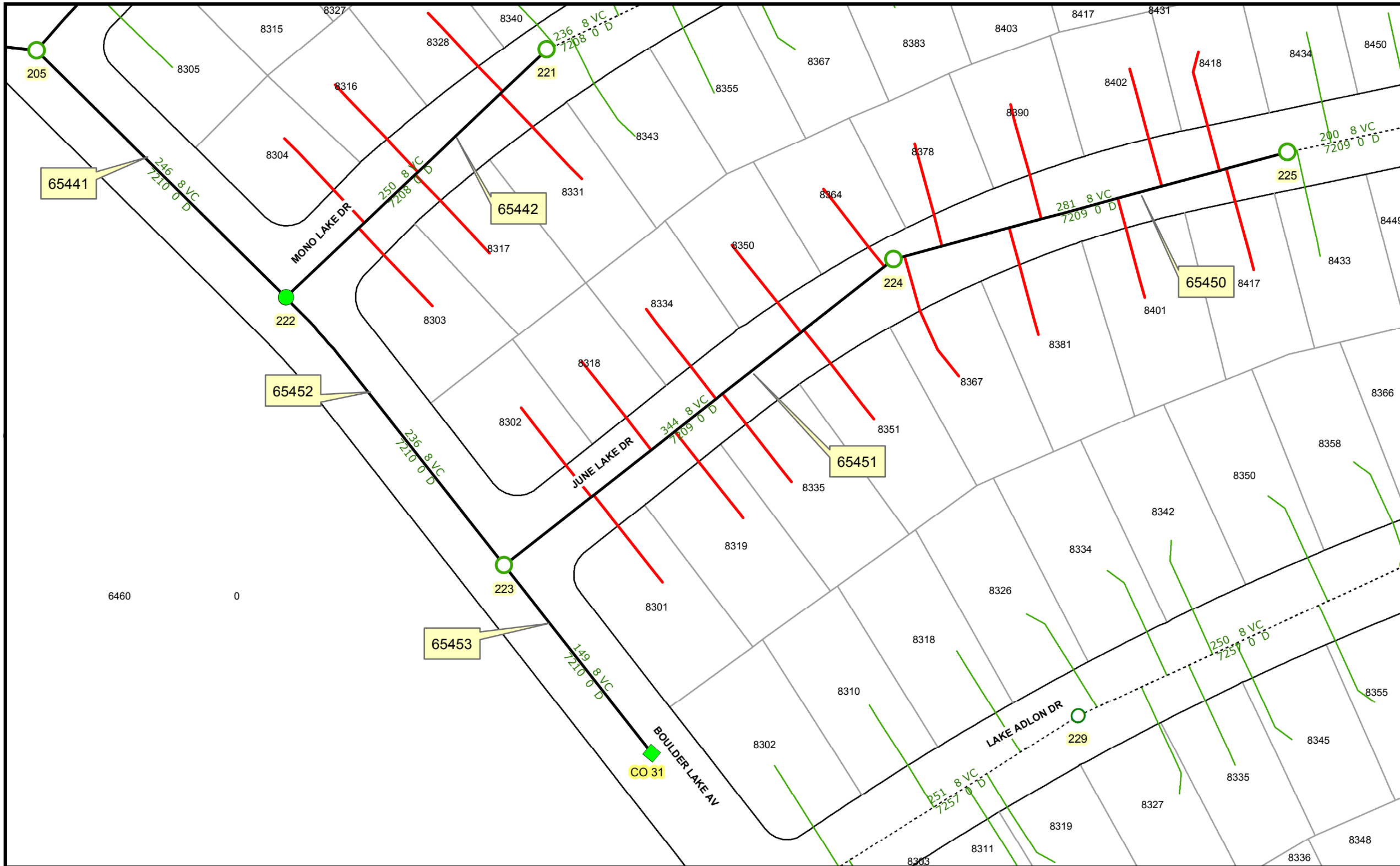
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**Legend**

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- MH\_REHAB
- SEWER\_LATERAL\_REHAB\_
- EX Laterals
- Text FSN (Facility Sequence Number)
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- POINT\_REPAIR\_&\_REHAB
- SEWER\_REHAB
- - - - - EX Sewer Mains
- 123 MANHOLE ID NUMBER



NOT TO SCALE



MH ID:	MH IE:	MH DEPTH:	FSN:
CO 31	642.21	9.00	131840
223	641.61	12.00	131836
222	640.66	13.00	131835
205	639.68	14.00	131818
221	650.30	6.00	131834
225	654.09	15.00	131838
224	652.96	10.00	131837

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**Legend**

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- MH\_REHAB
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- EX Laterals
- ⊗ MH\_REPLACE
- EX\_MH\_(NO\_WORK\_PER\_PUD)
- - - - - POINT\_REPAIR\_&\_REHAB
- - - - - EX Sewer Mains
- ▲ MH\_REPAIR\_&\_REHAB
- SEWER\_REHAB

Text FSN (Facility Sequence Number)

123 MANHOLE ID NUMBER

NOT TO SCALE

## **SURVEY MONUMENT PERPETUATION**



MONUMENTATION / SURVEY NOTES

THIS MAP WAS CREATED FROM A PARCEL LAYER AND DOES NOT DEPICT THE ACTUAL LOCATION OF THE PROPERTY LINES. NO BOUNDARY ANALYSIS WAS PERFORMED. THE SURVEY MONUMENTS HAVE BEEN LOCATED BY SURVEY GRADE MEASUREMENTS, AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

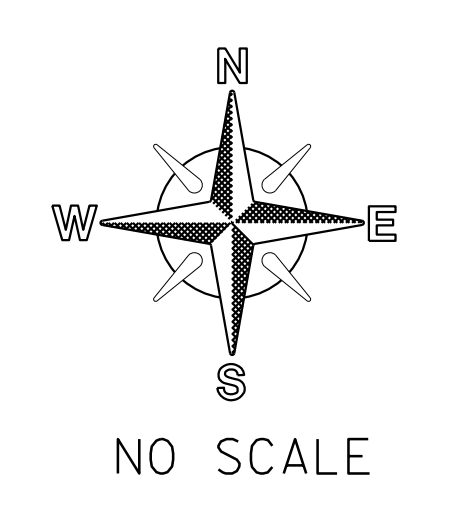
THE CITY OF SAN DIEGO LAND SURVEYORS SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED WITH THE COUNTY SURVEYOR.

IF ANY HORIZONTAL OR VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ANY HORIZONTAL CONTROL AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION IF THE CITY OF SAN DIEGO SURVEY SECTION IS NOT NOTIFIED PRIOR TO CONSTRUCTION. THE FILING OF A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED WITH THE COUNTY SURVEYOR. A COPY OF THE FILED DOCUMENT SHALL BE FURNISHED TO THE CITY OF SAN DIEGO SURVEY SECTION.

LEGEND	
	LOCATION OF EXISTING SURVEY MONUMENT
	LOCATION OF EXISTING M-10
	LOCATION OF EXISTING BENCH POINT

MAPS FOR THE CONSTRUCTION OF PIPELINE REHABILITATION AQ-1  
MONUMENT PERPETUATION  
(1 OF 5)



WBS: B-17151

SEE MAP

MONUMENT PERPETUATION



MONUMENTATION / SURVEY NOTES

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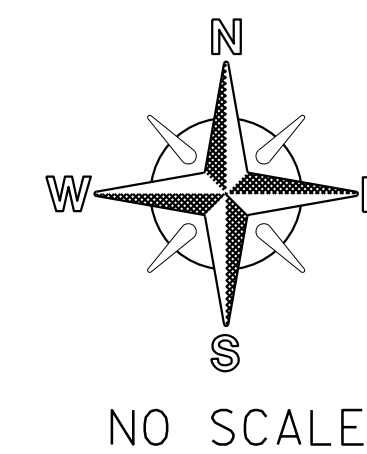
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MATCH LINE SEE SHEET 3

LEGEND

- \* LOCATION OF EXISTING SURVEY MONUMENT
- △ LOCATION OF EXISTING M-10
- ▣ LOCATION OF EXISTING BENCH POINT

MAPS FOR THE CONSTRUCTION OF  
PIPELINE REHABILITATION AQ-1  
MONUMENT PERPETUATION  
(2 OF 5)



WBS: B-17151

SEE MAP

MATCH LINE SEE SHEET 4

MONUMENT PERPETUATION



MONUMENTATION / SURVEY NOTES

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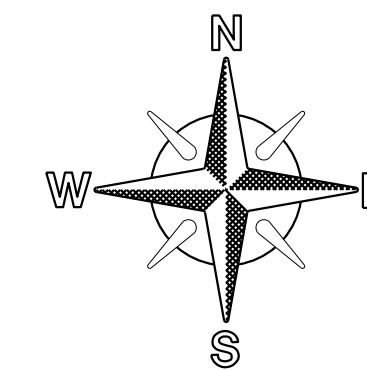
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LEGEND

- \* LOCATION OF EXISTING SURVEY MONUMENT
- △ LOCATION OF EXISTING M-10
- ▣ LOCATION OF EXISTING BENCH POINT

MAPS FOR THE CONSTRUCTION OF  
PIPELINE REHABILITATION AQ-1  
MONUMENT PERPETUATION  
(3 OF 5)



NO SCALE

WBS: B-17151

SEE MAP



MATCH LINE SEE SHEET 2

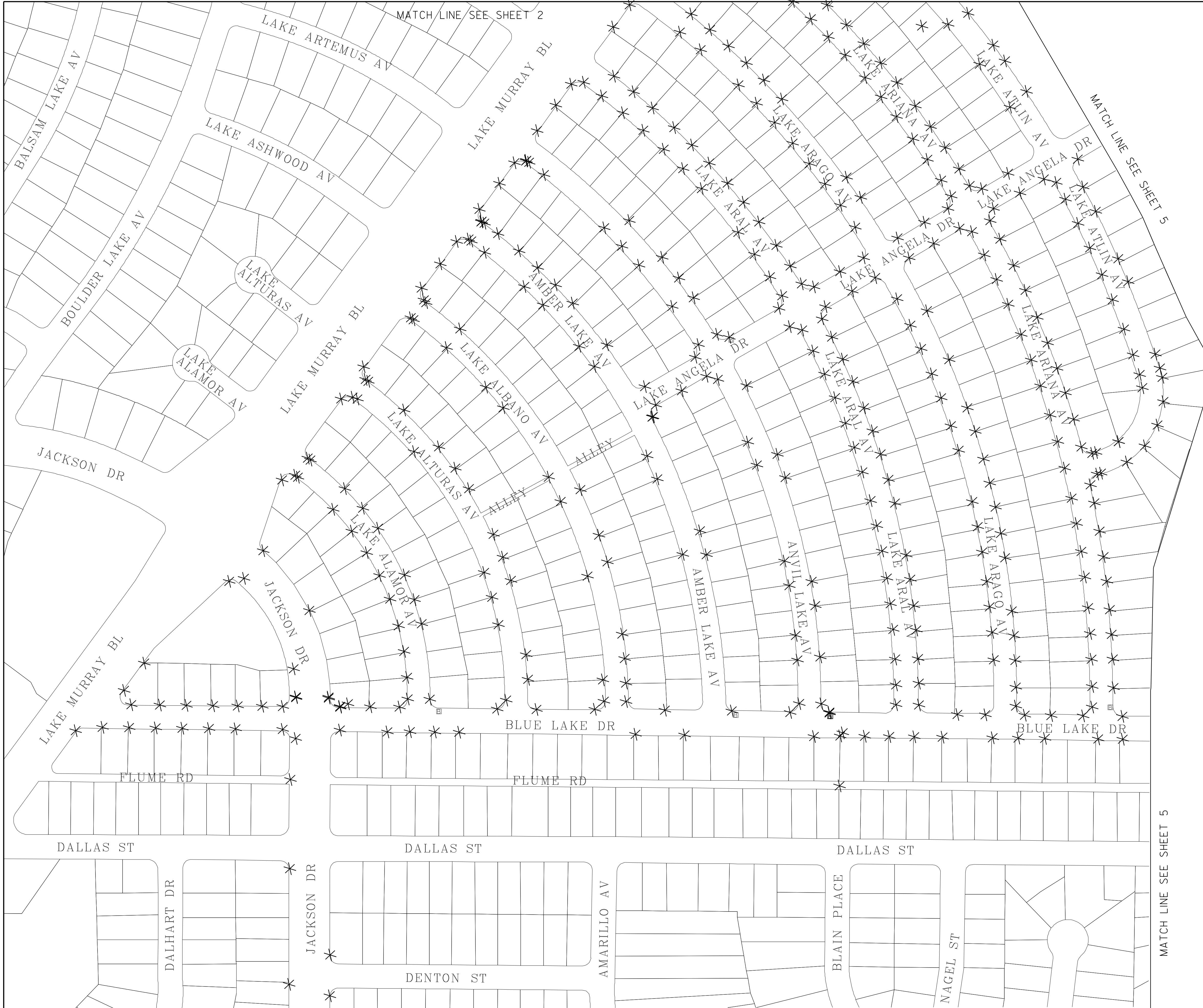
MATCH LINE SEE SHEET 5

SR-125 SB

SR-125 SB

SR-125NB RA

MONUMENT PERPETUATION



**MONUMENTATION / SURVEY NOTES**

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LEGEND	
*	LOCATION OF EXISTING SURVEY MONUMENT
△	LOCATION OF EXISTING M-10
□	LOCATION OF EXISTING BENCH POINT

**MAPS FOR THE CONSTRUCTION OF PIPELINE REHABILITATION AQ-1**  
**MONUMENT PERPETUATION**  
**(4 OF 5)**

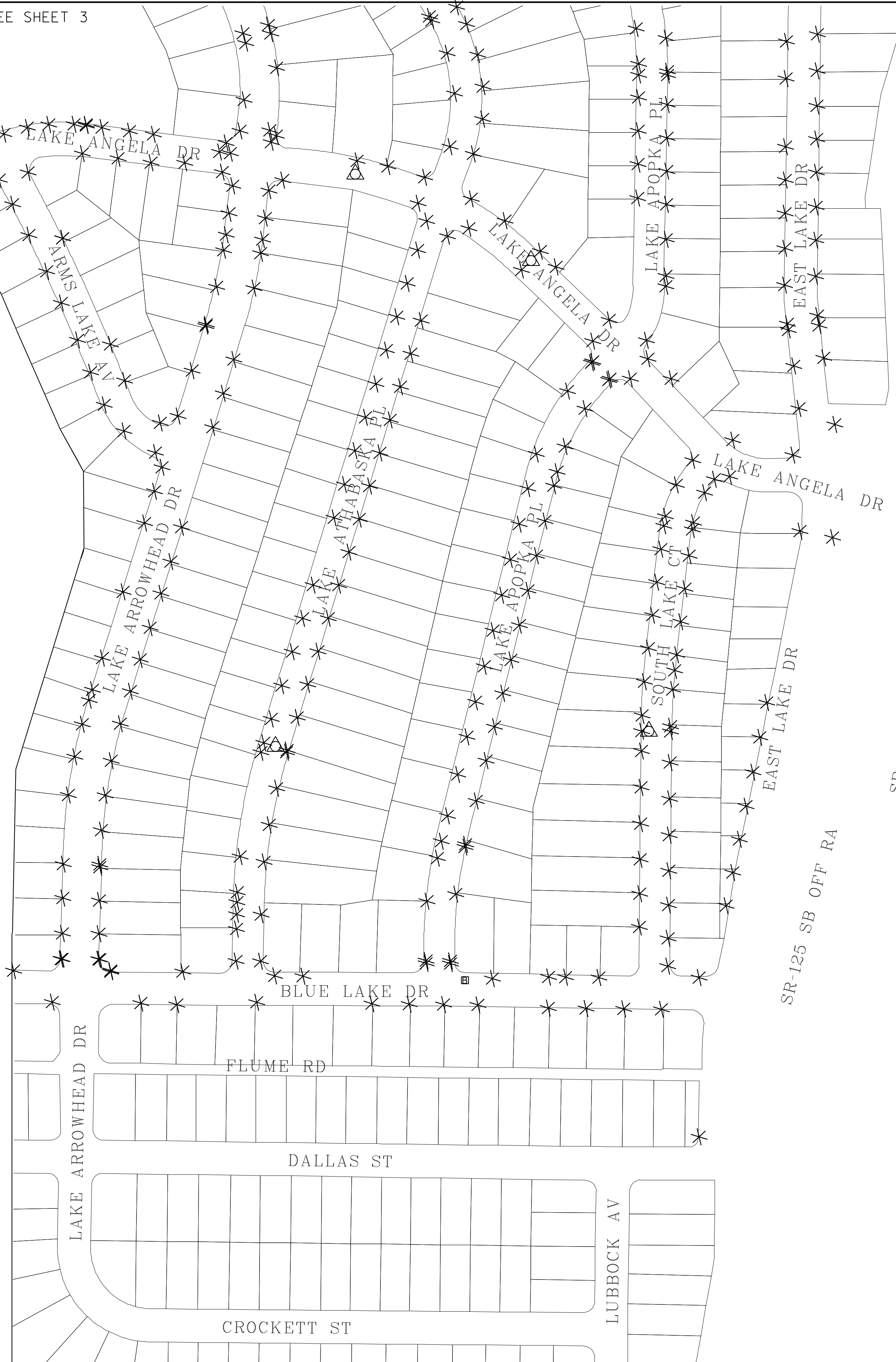
 NO SCALE	WBS: B-17151	SEE MAP
--------------	--------------	---------

**MONUMENT PERPETUATION**

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 4



SR-125 SB

SR-125 NB

SR-125 SB OFF RA

MONUMENTATION / SURVEY NOTES

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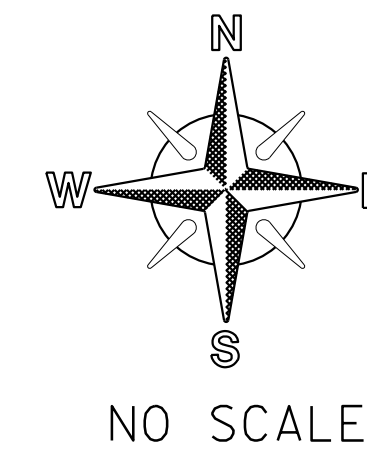
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LEGEND	
*	LOCATION OF EXISTING SURVEY MONUMENT
△	LOCATION OF EXISTING M-10
□	LOCATION OF EXISTING BENCH POINT

MAPS FOR THE CONSTRUCTION OF PIPELINE REHABILITATION AQ-1  
MONUMENT PERPETUATION  
(5 OF 5)



WBS: B-17151

SEE MAP

MONUMENT PERPETUATION

**APPENDIX K**  
**HAZARDOUS LABEL/FORMS**

**HAZARDOUS  
WASTE**

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

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

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

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

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

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

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

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

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

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

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

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

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

## If you have an emergency, Call 911

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

### Questions for Incident Assessment:

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

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

\*Call 911 in an emergency\*

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

If in doubt, report the release.

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

# NON REPORTABLE RELEASE INCIDENT FORM

## 1. RELEASE AND RESPONSE DESCRIPTION

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

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

## 2. ADMINISTRATIVE INFORMATION

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

## 3. CHEMICAL INFORMATION

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

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

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



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

### **GENERAL INFORMATION:**

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

### **BASIC INSTRUCTIONS:**

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

### **SPECIFIC INSTRUCTIONS:**

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

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

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

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

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

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

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

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

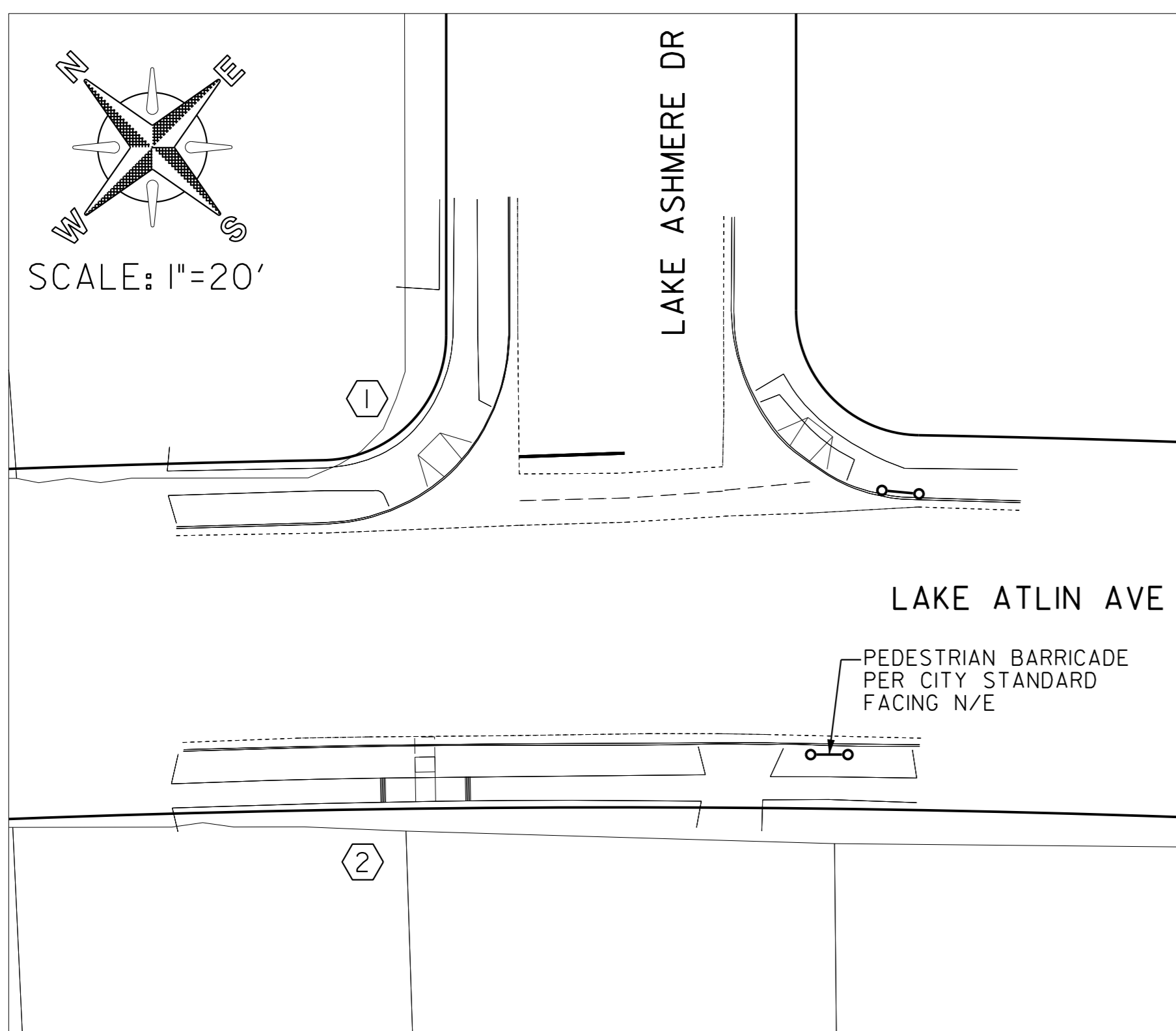
**Block I:** Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

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

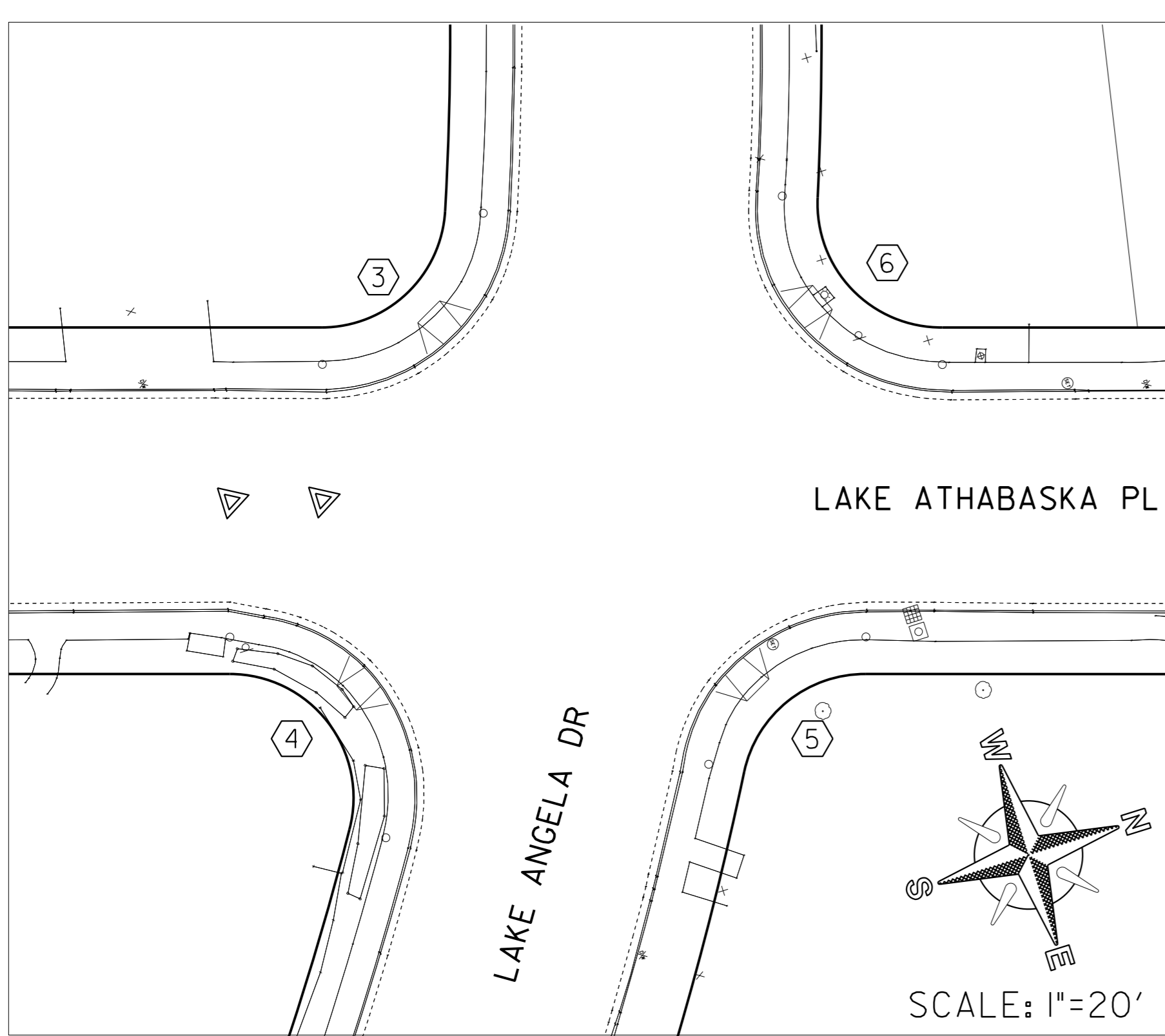
**State Emergency Response Commission (SERC)  
Attn: Section 304 Reports  
Hazardous Materials Unit  
3650 Schriever Avenue  
Mather, CA 95655**

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

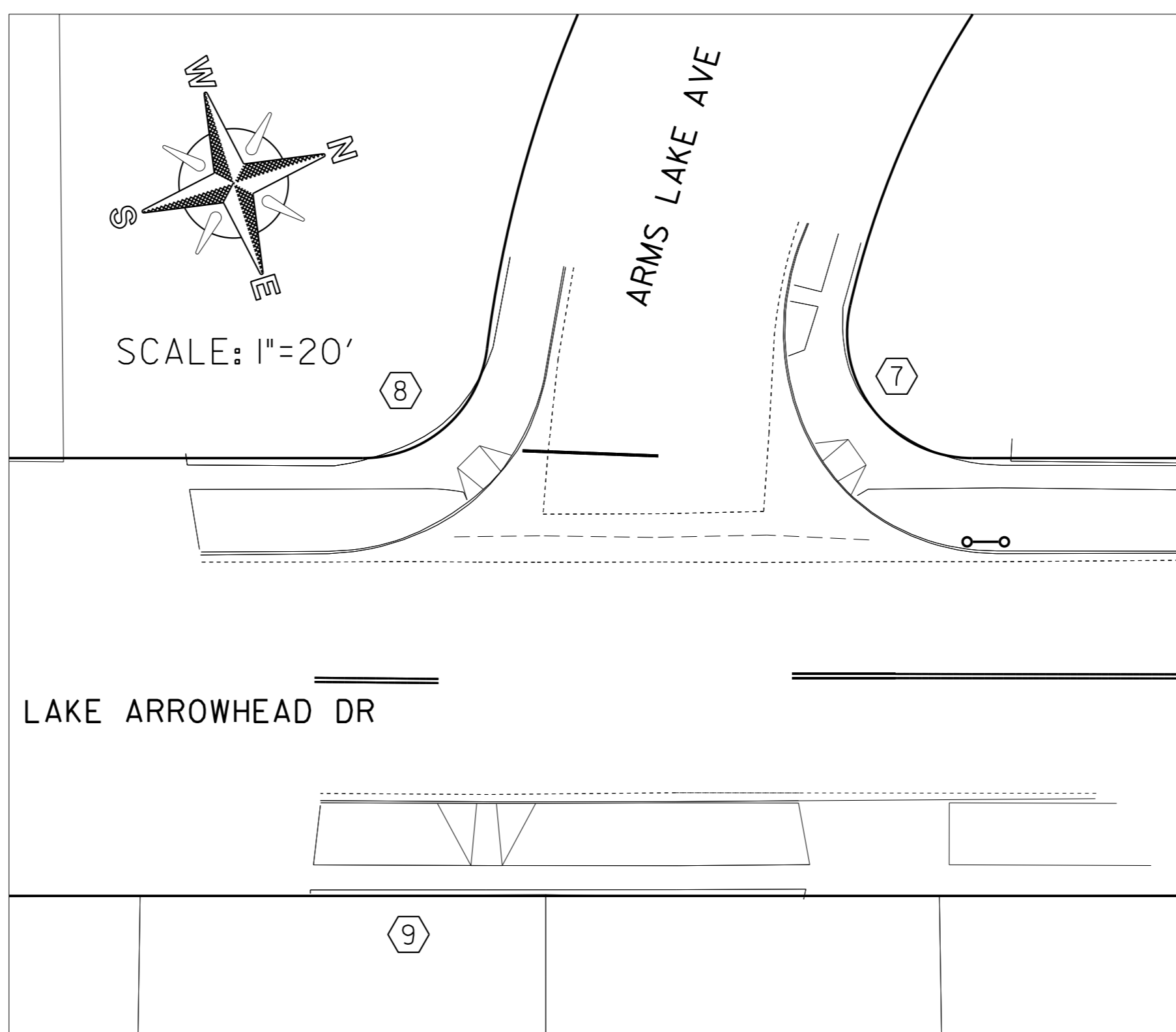
**APPENDIX L**  
**CURB RAMP LOCATION MAP**



SITE 1



SITE 2



SITE 3

CURB RAMP NOTES TABLE								
LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES		CONSTRAINTS	COMMENTS / MODIFICATIONS
					• STAINLESS STEEL	• OTHER		
1	C2	X						RELOCATE STOP LINE LIMIT; PROTECT IN PLACE THE ELECTRIC POLE
2	CASE B	X						INSTALL CASE B CURB RAMP PER SDG-138
3	CI	X						INSTALL CURB RAMP PER SDG-135
4	CI	X						INSTALL CURB RAMP PER SDG-135; RELOCATE STOP LINE LIMIT
5	CI	X						INSTALL CURB RAMP PER SDG-135
6	CI	X						INSTALL CURB RAMP PER SDG-135; RELOCATE STOP LINE LIMIT
7	A	X						INSTALL PEDESTRIAN BARRICADE PER CITY STANDARD FACING E INSTALL A RETAINING CURB WHERE REQUIRED BEHIND THE ENTIRE CURB
8	A							
9	B	X						PROTECT EXISTING TREE

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

**GENERAL NOTES:**

- A.- CONTRACTOR MAY USE NON STAINLESS STEEL MATERIAL PER THE CITY'S AML IF THE DWT HAS TO BE TRIMMED TO CONFORM TO THE CURB RAMP CONFIGURATION.
- B.- THE DESIGN OF THE CURB RAMP SHALL NOT AFFECT THE DRAINAGE PATTERN ON THE STREET.
- C.- CONTRACTOR TO REPLACE LIFTED, DAMAGE OR MISSING SIDEWALK PANELS WITHIN THE ENTIRE CURB RETURN AND ALONG THE IMMEDIATE SIDEWALK AREAS LEADING TO THE CURB RETURN.
- D.- COUNTER SLOPES (CURB RAMP SLOPE PLUS STREET SLOPE) WHEN ADDED CANNOT EXCEED 13%. WITH THE EXCEPTION OF A TYPE C2 AND CI, ADJUST THE SLOPE OF THE MAIN RAMP AND/OR STREET IF THE COUNTER SLOPE EXCEED 5.0%.
- E.- CONTRACTOR TO PROTECT ANY EXISTING WALLS BEHIND THE SIDEWALK DURING DEMOLITION AND CONSTRUCTION.
- F.- FOR NEW OR RELOCATED SIGNAL AND/OR PPB POLES, THE HOUSING ASSEMBLY FOR THE PPB'S SHALL BE REPLACED WITH A METALLIC HOUSING THAT MATCHES COLOR NO. 33538 OF FED-STD-595.
- G.- CONTRACTORS TO ENSURE THERE ARE SIGNALS ON BOTH SIDES OF THE STANDARD PEDESTRIAN BARRICADE AND THAT THE ARROWS ON THE SIGNS POINT TO THE NEAREST CROSSING AREA.
- H.- PROVIDE A RETAINING CURB BEHIND THE CURB RAMP IF THE ADJACENT GRADE IS HIGHER OR LOWER THAN THE SIDEWALK OR CURB RAMP LANDING SURFACE. THE HEIGHT OF THE RETAINING CURB SHALL BE 2" HIGHER THAN THE ADJACENT GRADE. IF THE GRADE IS LOWER, THAN THE ADJACENT GRADE. IF THE GRADE IS LOWER, A 6" HIGH CONCRETE CURB SHALL BE USED. IF THE GRADE IS LOWER THAN 24", A PROTECTIVE RAILING SHALL BE PROVIDED.

**NOTE:**  
CONTRACTOR TO NOTIFY CM & FS SURVEY SECTION 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

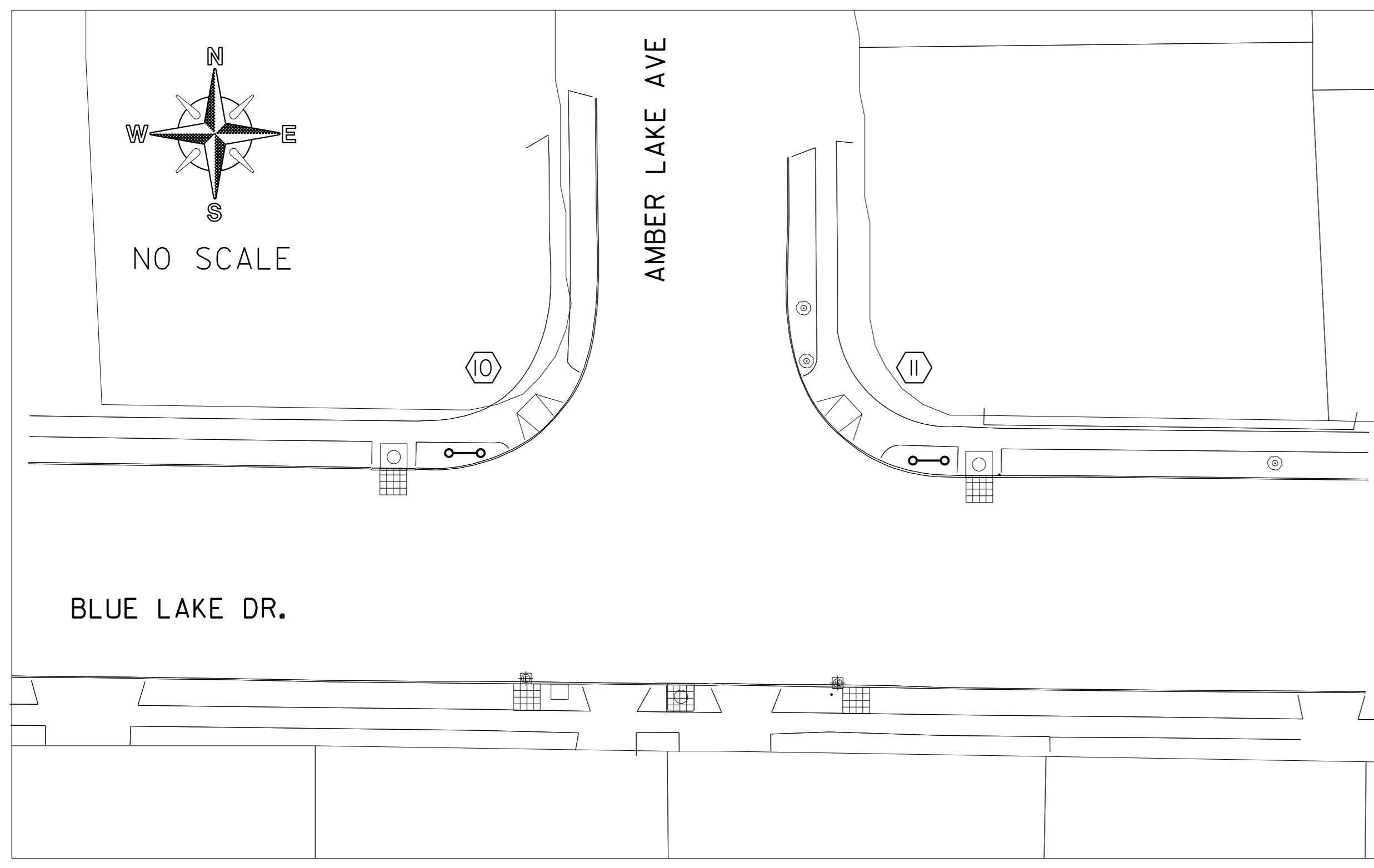
LEGEND	STANDARD DRAWING INDEX
⑧ CURB RAMP NO's	DETECTABLE WARNING TILES SDG-130
• EX UTILITY POLE	GENERAL CURB RAMP NOTES SDG-131
○ EX FIRE HYDRANT	GENERAL CURB RAMP NOTES & SUPPLEMENTAL DETAILS SDG-132
⊙ EX STREET LIGHT	CURB RAMP - TYPE A & B SDG-133
T EX TREE	DUAL CURB RAMP SDG-134
† EX STREET SIGN	CURB RAMP - TYPE CI & C2 SDG-135
□ EX CURB RAMP	CURB RAMP - TYPE CI & C2 & MORE DETAILS SDG-136
⊕ PEDESTRIAN BARRICADE PER SDE-103	CURB RAMP - TYPE D SDG-137
	GENERAL CURB RAMP SDG-138
	ISLAND AND PASSAGEWAY DETAILS SDG-139
	PROTECTIVE RAILING AT CURB RAMP SDG-140
	PEDESTRIAN BARRICADE - TYPE A SDG-141
	EX STAMP/IMPRESSION PLACEMENT SDG-115

**MAPS FOR THE CONSTRUCTION OF PIPELINE REHABILITATION AQ-1**

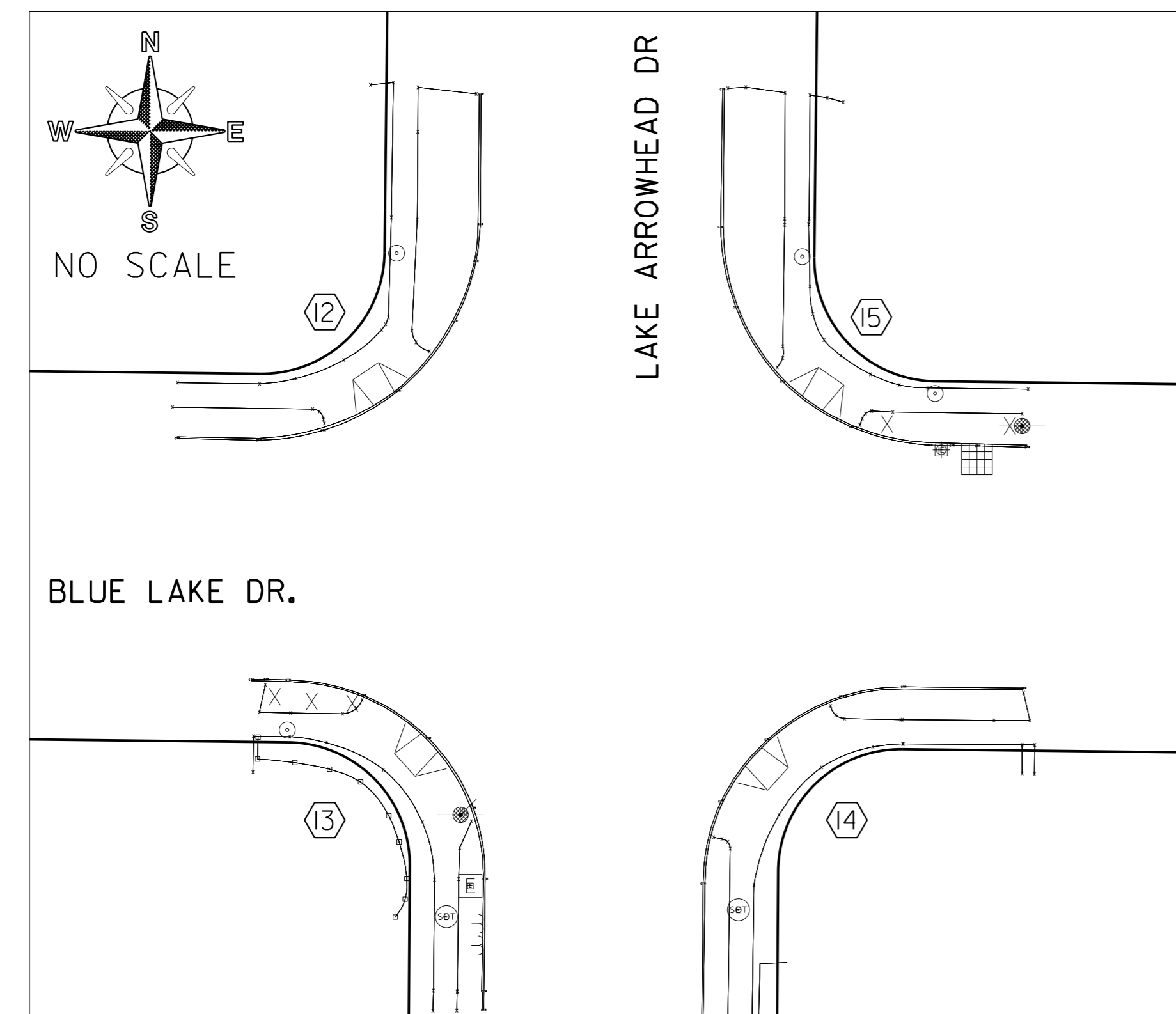
**CURB RAMP LOCATION (1 OF 2)**

WBS: B-17151	SEE MAP
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CURB RAMP LOCATION



SITE 4



SITE 5

CURB RAMP NOTES TABLE								
LOCATION	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES		CONSTRAINTS	COMMENTS / MODIFICATIONS
					• STAINLESS STEEL	• OTHER		
10	A							INSTALL RETAINING CURB WHERE REQUIRED BEHIND OF THE ENTIRE CURB RAMP; INSTALL PEDESTRIAN BARRICADE PER STANDARD FACING S
11	A							INSTALL RETAINING CURB WHERE REQUIRED BEHIND OF THE ENTIRE CURB RAMP; INSTALL PEDESTRIAN BARRICADE PER STANDARD FACING S
12	A	X		X				INSTALL RETAINING CURB WHERE REQUIRED BEHIND THE ENTIRE CURB RAMP
13	A	X		X				RELOCATE THE STOP LINE LIMIT; INSTALL RETAINING CURB WHERE REQUIRED BEHIND THE ENTIRE CURB RAMP; PROTECT IN PLACE THE ELECTRICAL POLE
14	A	X		X				INSTALL RETAINING CURB WHERE REQUIRED BEHIND THE ENTIRE CURB RAMP
15	A	X		X				RELOCATE THE STOP LINE LIMIT; INSTALL RETAINING CURB WHERE REQUIRED BEHIND THE ENTIRE CURB RAMP

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

**GENERAL NOTES:**

- A.- CONTRACTOR MAY USE NON STAINLESS STEEL MATERIAL PER THE CITY'S AML IF THE DWT HAS TO BE TRIMMED TO CONFORM TO THE CURB RAMP CONFIGURATION.
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- C.- CONTRACTOR TO REPLACE LIFTED, DAMAGE OR MISSING SIDEWALK PANELS WITHIN THE ENTIRE CURB RETURN AND ALONG THE IMMEDIATE SIDEWALK AREAS LEADING TO THE CURB RETURN.
- D.- COUNTER SLOPES (CURB RAMP SLOPE PLUS STREET SLOPE) WHEN ADDED CANNOT EXCEED 13%. WITH THE EXCEPTION OF A TYPE C2 AND C1, ADJUST THE SLOPE OF THE MAIN RAMP AND/OR STREET IF THE COUNTER SLOPE EXCEED 5.0%.
- E.- CONTRACTOR TO PROTECT ANY EXISTING WALLS BEHIND THE SIDEWALK DURING DEMOLITION AND CONSTRUCTION.
- F.- FOR NEW OR RELOCATED SIGNAL AND/OR PPB POLES, THE HOUSING ASSEMBLY FOR THE PPB'S SHALL BE REPLACED WITH A METALLIC HOUSING THAT MATCHES COLOR NO. 33538 OF FED-STD-595.
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**NOTE:**  
CONTRACTOR TO NOTIFY CM & FS SURVEY SECTION 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

LEGEND	STANDARD DRAWING INDEX
⑧ CURB RAMP NO's	DETECTABLE WARNING TILES SDG-130
• EX UTILITY POLE	GENERAL CURB RAMP NOTES SDG-131
○ EX FIRE HYDRANT	GENERAL CURB RAMP NOTES & SUPPLEMENTAL DETAILS SDG-132
⊙ EX STREET LIGHT	CURB RAMP - TYPE A & B SDG-133
T EX TREE	DUAL CURB RAMP SDG-134
† EX STREET SIGN	CURB RAMP - TYPE C1 & C2 SDG-135
□ EX CURB RAMP	CURB RAMP - TYPE C1 & C2 & MORE DETAILS SDG-136
—○— PEDESTRIAN BARRICADE PER SDE-103	CURB RAMP - TYPE D SDG-137
	GENERAL CURB RAMP SDG-138
	ISLAND AND PASSAGEWAY DETAILS SDG-139
	PROTECTIVE RAILING AT CURB RAMP SDG-140
	PEDESTRIAN BARRICADE - TYPE A SDG-141
	EX STAMP/IMPRESSION PLACEMENT SDG-115

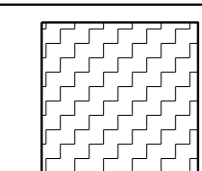
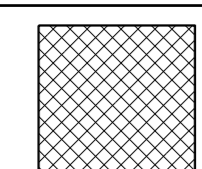
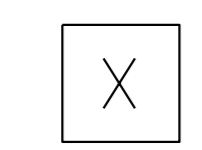
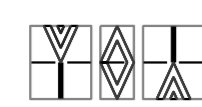
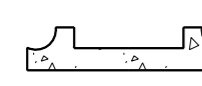

**MAPS FOR THE CONSTRUCTION OF PIPELINE REHABILITATION AQ-1**

**CURB RAMP LOCATION (2 OF 2)**

	WBS: B-17151	SEE MAP
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CURB RAMP LOCATION

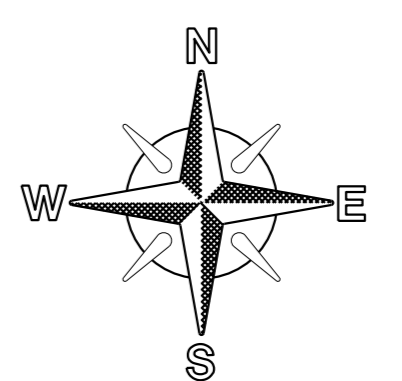
**APPENDIX M**  
**RESURFACE SHEET LOCATION MAP**

LEGEND	
	APPROX. LIMITS OF SLURRY SEAL TYPE I OVER TYPE II
	APPROX. LIMITS OF FULL WIDTH COLD MILLING AND AC OVERLAY (2 INCH)
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
	APPROX. LOCATION OF ROAD LUMPS
	CROSS GUTTER
	APPROX. LOCATION OF CONTINENTAL CROSSWALK



PAVING SCHEDULE NOTES							
NO.	LOCATION	STREET SEGMENT ID	OCI	RESTORATION REQUIRED	LENGTH (FT)	WIDTH (FT)	APPROX. AREA (SF)
1	BLUE LAKE DR	12283 12279 12280 12284	GOOD	SLURRY SEAL TYPE I OVER II	1150	40	46,000
2	EAST LAKE DR	25674	GOOD	SLURRY SEAL TYPE I OVER II	1080	40	43,200
3	BOULDER LAKE DR	588	GOOD	SLURRY SEAL TYPE I OVER II	300	40	12,000
TOTAL AREA OF SLURRY SEAL TYPE I OVER TYPE II							101,200 SF

MAPS FOR THE CONSTRUCTION OF  
PIPELINE REHABILITATION AQ-1  
RESURFACING SHEET LOCATION MAP  
(1 OF 1)

 NO SCALE	WBS: B-17151	SEE MAP
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## **APPENDIX N**

### **SEWER MAINS, SEWER LATERALS, AND MANHOLE REHABILITATION SAMPLE DATA TEMPLATES**





REHAB DATA COLLECTION - LATERALS

FSN	REHAB DATE	TOPHAT INSTALLED	SIZE	FUNCTIONAL DIAM	LINING TYPE DESC	LINING METHOD DESC	REHAB CONTRACTOR DESC	REHAB MATERIAL VENDOR	COMMENTS	ACCEPTANCE DATE
5033085	8/22/2006	Y	6		PVC	SPIRAL WOUND	WESCO INFRA. TECHNOLOGIES,LP	RIBLOC	EXAMPLE - Leave this row in the table as it is.	8/22/2006

**REHAB DATA COLLECTION – MANHOLES**

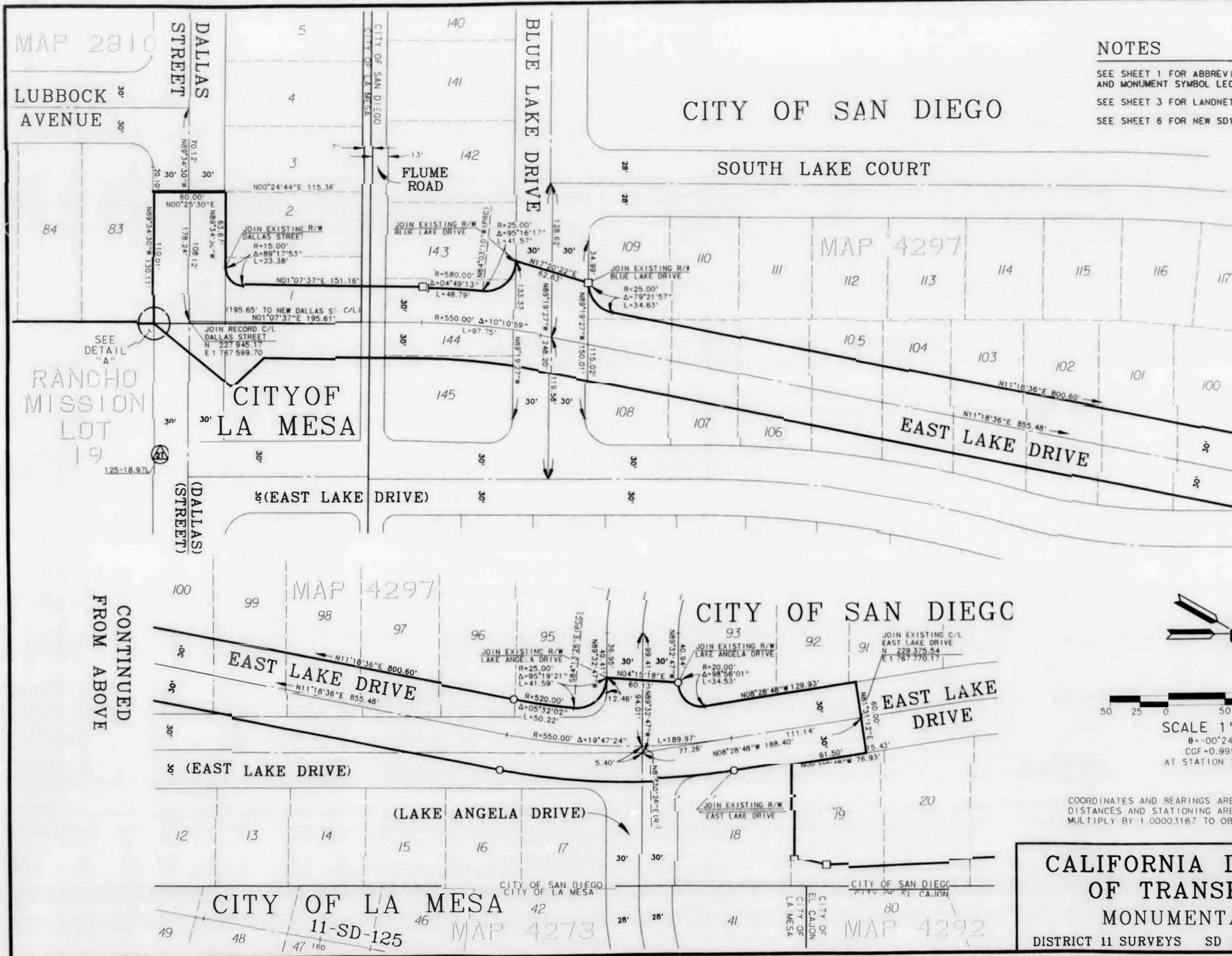
MH FSN	REHAB DATE	LINING TYPE	LINING MATERIAL VENDOR	LINING SYSTEM	REHAB CONTRACTOR	RIM ELEVATION	INVERT ELEVATION	ACTUAL DEPTH (VF)	COMMENTS	ACCEPTANCE DATE
70536	3/28/2007	POLYURETHANE	ZEBRON	ZEBRON 386	ZEBRON CORPORATION	49.8	41.95	7	Leave this row as a sample.	3/28/2007

## **APPENDIX O**

### **AS-BUILT**

# R.O.S. MAP NO. 17628

SHEET 9 OF 9 SHEETS



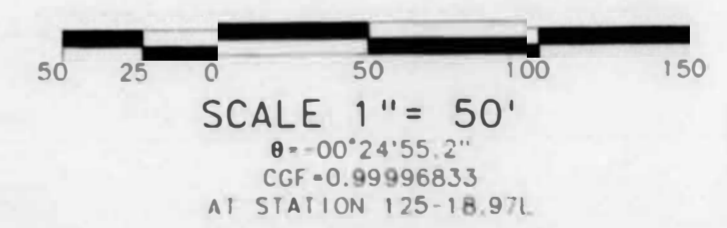
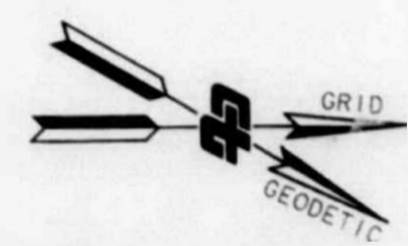
## NOTES

- SEE SHEET 1 FOR ABBREVIATIONS, CONTROL STATION DATA AND MONUMENT SYMBOL LEGEND
- SEE SHEET 3 FOR LANDNET ANNOTATION
- SEE SHEET 6 FOR NEW SD125 R/W ANNOTATION



CONTINUED FROM ABOVE

CONTINUED BELOW



COORDINATES AND BEARINGS ARE BASED ON CCS27 ZONE 6. DISTANCES AND STATIONING ARE GRID DISTANCES. MULTIPLY BY 1.00003167 TO OBTAIN GROUND DISTANCES.

**CALIFORNIA DEPARTMENT OF TRANSPORTATION**  
**MONUMENTATION MAP**  
 DISTRICT 11 SURVEYS SD RTE 125 PM R18.4 TO 19.8

REGISTERED CIVIL ENGINEER  
 2/10/98  
 R. J. MOREAU  
 No. 17623  
 Exp. 06-30-01  
 STATE OF CALIFORNIA  
 CIVIL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

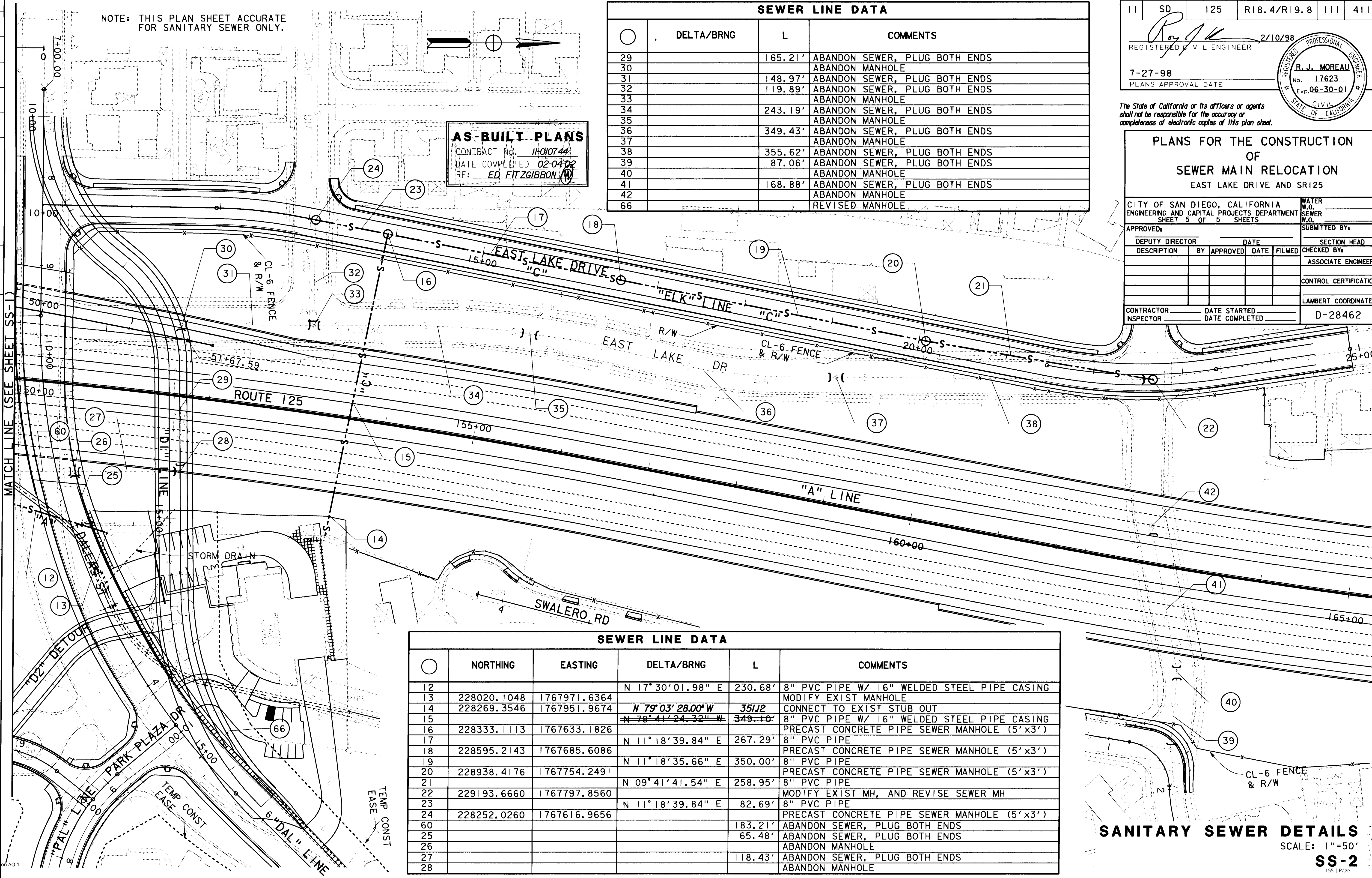
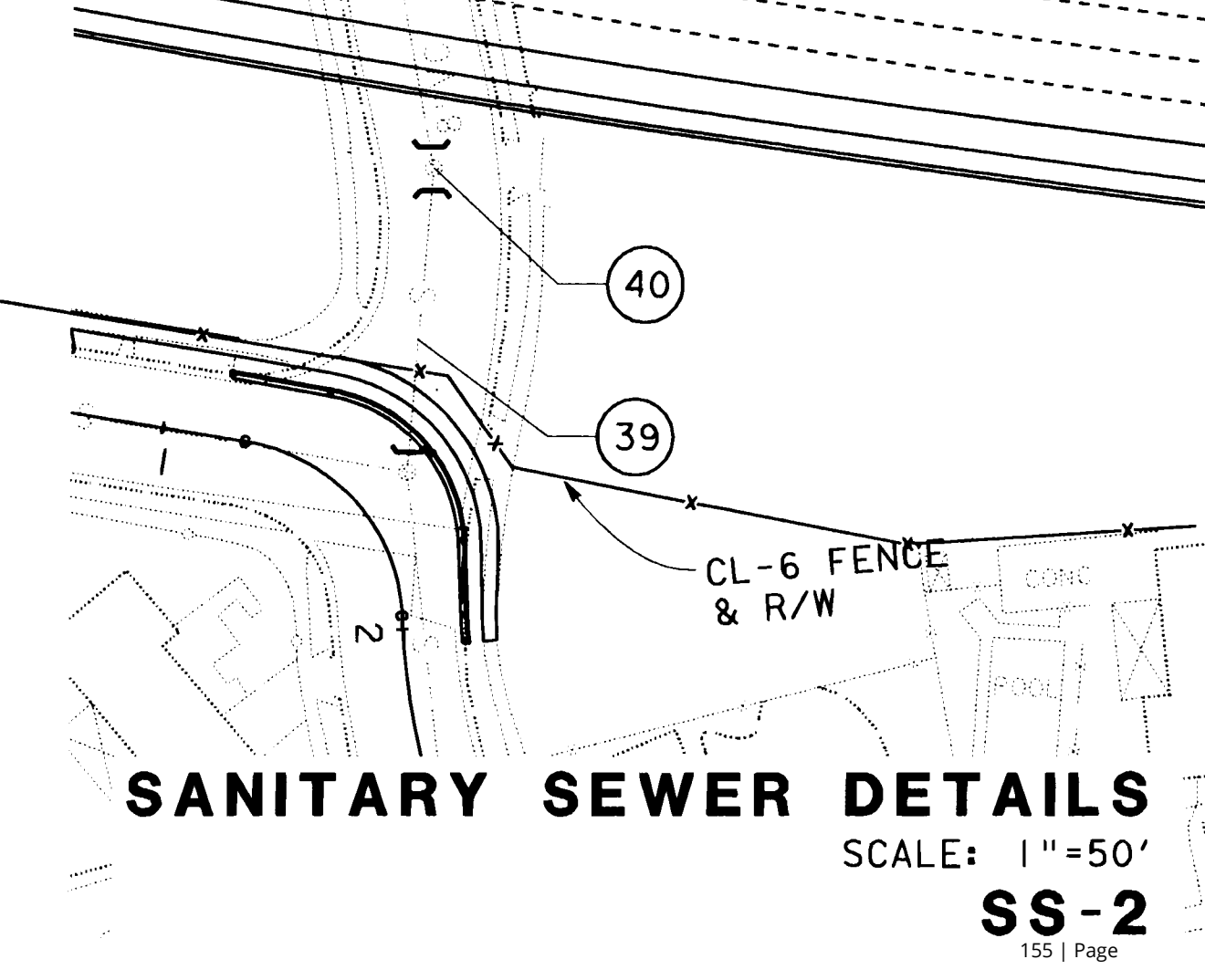
**PLANS FOR THE CONSTRUCTION OF SEWER MAIN RELOCATION**  
 EAST LAKE DRIVE AND SR125

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 5 OF 5 SHEETS				WATER W.O. SEWER W.O.
APPROVED:				SUBMITTED BY:
DEPUTY DIRECTOR	DATE			SECTION HEAD
DESCRIPTION	BY	APPROVED	DATE	FILMED
				CHECKED BY:
				ASSOCIATE ENGINEER
				CONTROL CERTIFICATION
				LAMBERT COORDINATES
CONTRACTOR INSPECTOR		DATE STARTED	DATE COMPLETED	D-28462

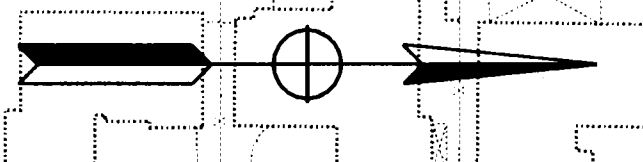
NO.	DELTA/BRNG	L	COMMENTS
29		165.21'	ABANDON SEWER, PLUG BOTH ENDS
30			ABANDON MANHOLE
31		148.97'	ABANDON SEWER, PLUG BOTH ENDS
32		119.89'	ABANDON SEWER, PLUG BOTH ENDS
33			ABANDON MANHOLE
34		243.19'	ABANDON SEWER, PLUG BOTH ENDS
35			ABANDON MANHOLE
36		349.43'	ABANDON SEWER, PLUG BOTH ENDS
37			ABANDON MANHOLE
38		355.62'	ABANDON SEWER, PLUG BOTH ENDS
39		87.06'	ABANDON SEWER, PLUG BOTH ENDS
40			ABANDON MANHOLE
41		168.88'	ABANDON SEWER, PLUG BOTH ENDS
42			ABANDON MANHOLE
66			REVISED MANHOLE

**AS-BUILT PLANS**  
 CONTRACT NO. 11-010744  
 DATE COMPLETED 02-04-02  
 RE: ED FITZGIBBON

NO.	NORTHING	EASTING	DELTA/BRNG	L	COMMENTS
12			N 17° 30' 01.98" E	230.68'	8" PVC PIPE W/ 16" WELDED STEEL PIPE CASING
13	228020.1048	1767971.6364			MODIFY EXIST MANHOLE
14	228269.3546	1767951.9674	N 79° 03' 28.00" W	351.12	CONNECT TO EXIST STUB OUT
15			N 78° 41' 24.32" W	349.10'	8" PVC PIPE W/ 16" WELDED STEEL PIPE CASING
16	228333.1113	1767633.1826			PRECAST CONCRETE PIPE SEWER MANHOLE (5'x3')
17			N 11° 18' 39.84" E	267.29'	8" PVC PIPE
18	228595.2143	1767685.6086			PRECAST CONCRETE PIPE SEWER MANHOLE (5'x3')
19			N 11° 18' 35.66" E	350.00'	8" PVC PIPE
20	228938.4176	1767754.2491			PRECAST CONCRETE PIPE SEWER MANHOLE (5'x3')
21			N 09° 41' 41.54" E	258.95'	8" PVC PIPE
22	229193.6660	1767797.8560			MODIFY EXIST MH, AND REVISE SEWER MH
23			N 11° 18' 39.84" E	82.69'	8" PVC PIPE
24	228252.0260	1767616.9656			PRECAST CONCRETE PIPE SEWER MANHOLE (5'x3')
60				183.21'	ABANDON SEWER, PLUG BOTH ENDS
25				65.48'	ABANDON SEWER, PLUG BOTH ENDS
26					ABANDON MANHOLE
27				118.43'	ABANDON SEWER, PLUG BOTH ENDS
28					ABANDON MANHOLE



NOTE: THIS PLAN SHEET ACCURATE FOR SANITARY SEWER ONLY.



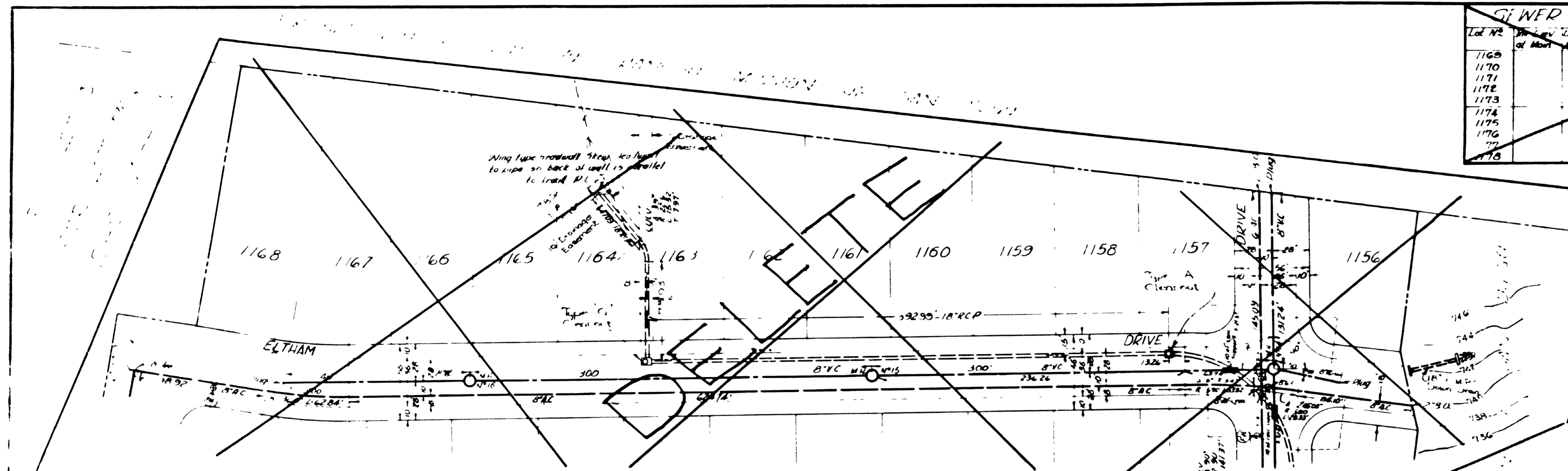
PROJECT ENGINEER: R. J. MOREAU  
 SERVICE ENGINEERING  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF CALIFORNIA  
 11-DEC-2002 16:21 tbfrcasle

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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 DGN FILE => b01074j02-ab.dgn

DATE PLOTTED => 11-DEC-2002  
 TIME PLOTTED => 16:21  
 LAST REVISION  
 02-11-98

SS-2  
 155 | Page



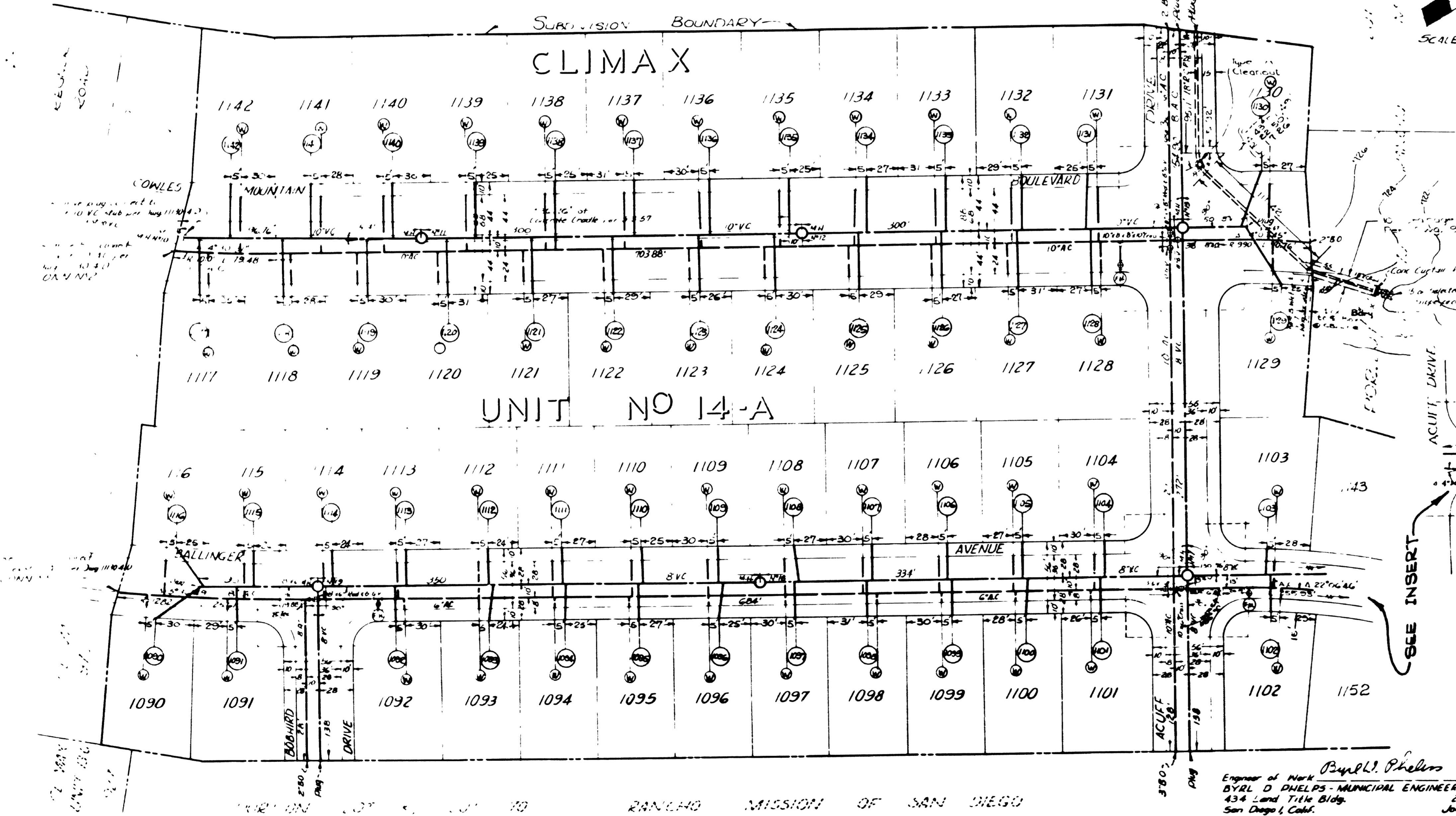
SEWER LATERAL TABLE			
Lot No.	Proposed Sewer Lateral Elev. at Man. Hole (Foot)	Prop. Elev. of Man. Hole (Foot)	Remarks
1168	1091	1091	
1170	1092	1092	
1171	1093	1093	
1172	1094	1094	
1173	1095	1095	
1174	1096	1096	
1175	1097	1097	
1176	1098	1098	
1177	1099	1099	
1178	1100	1100	

SEWER LATERAL TABLE			
Lot No.	Proposed Sewer Lateral Elev. at Man. Hole (Foot)	Prop. Elev. of Man. Hole (Foot)	Remarks
1156	1090	1090	
1157	1091	1091	
1158	1092	1092	
1159	1093	1093	
1160	1094	1094	
1161	1095	1095	
1162	1096	1096	
1163	1097	1097	
1164	1098	1098	
1165	1099	1099	
1166	1100	1100	
1167	1101	1101	
1168	1102	1102	

DELETE

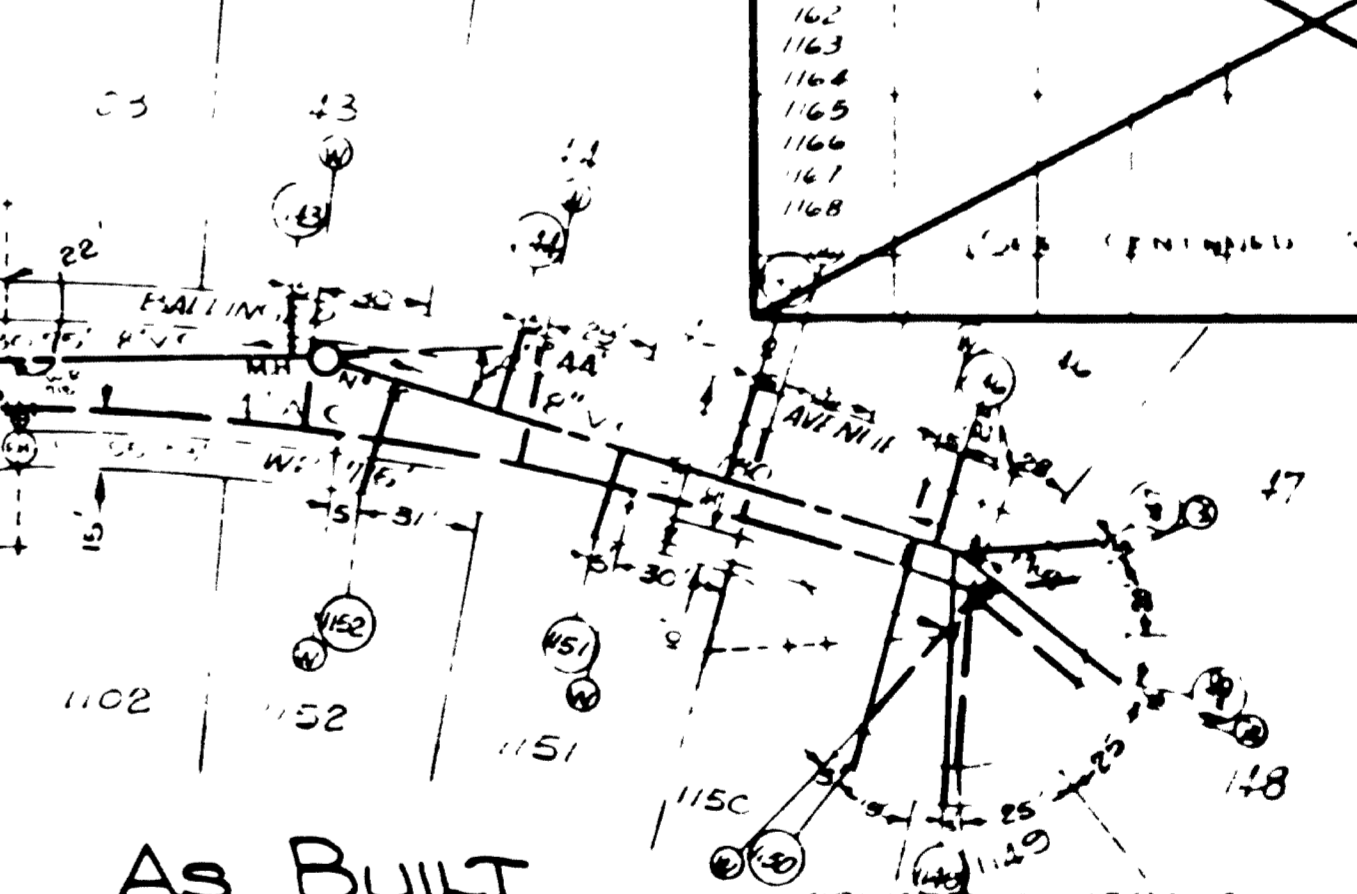
SEWER LATERAL TABLE			
Lot No.	Proposed Sewer Lateral Elev. at Man. Hole (Foot)	Prop. Elev. of Man. Hole (Foot)	Remarks
1103	1103	1103	
1104	1104	1104	
1105	1105	1105	
1106	1106	1106	
1107	1107	1107	
1108	1108	1108	
1109	1109	1109	
1110	1110	1110	
1111	1111	1111	
1112	1112	1112	
1113	1113	1113	
1114	1114	1114	
1115	1115	1115	
1116	1116	1116	
1117	1117	1117	
1118	1118	1118	
1119	1119	1119	
1120	1120	1120	
1121	1121	1121	
1122	1122	1122	
1123	1123	1123	
1124	1124	1124	
1125	1125	1125	
1126	1126	1126	
1127	1127	1127	
1128	1128	1128	
1129	1129	1129	

DELETE



SCALE - 1" = 50'

SEE INSERT

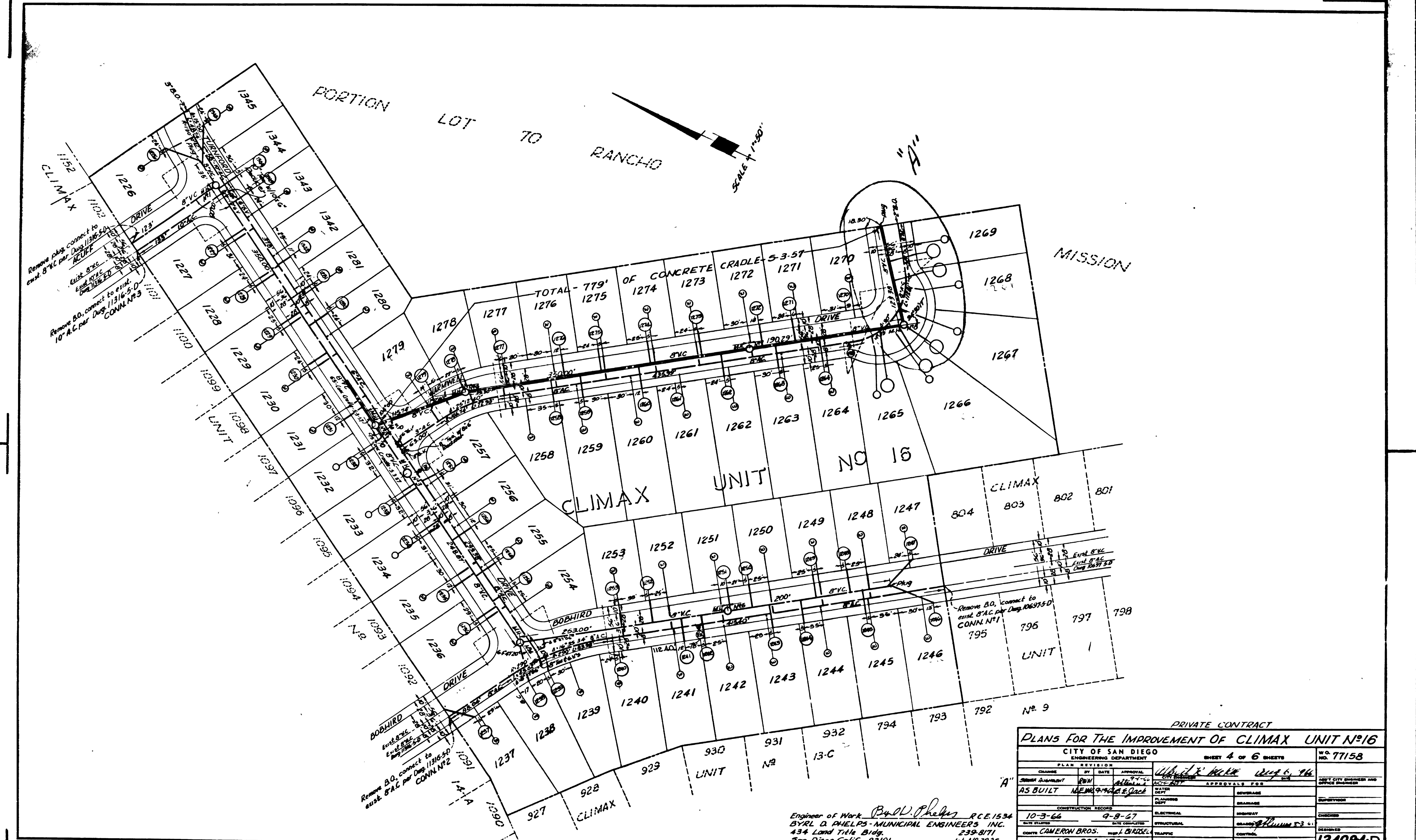


As BUILT

PLANS FOR THE IMPROVEMENT OF CLIMAX UNIT NO. 14-A			
CITY OF SAN DIEGO		ENGINEERING DEPARTMENT	
PLAN REVISION	DATE	BY	APPROVAL
As Built	7/20/66	ER/214	
CONSTRUCTION RECORD			
DATE	BY	APPROVAL	
7/1/65	ER/214		
DATE	BY	APPROVAL	
7/20/66	ER/214		
DATE	BY	APPROVAL	
7/20/66	ER/214		
DATE	BY	APPROVAL	
7/20/66	ER/214		
DATE	BY	APPROVAL	
7/20/66	ER/214		

Engineer of Work  
 RYAN D. PHILLIPS - MUNICIPAL ENGINEERS, INC.  
 434 Land Title Bldg.  
 San Diego, Calif. 92101  
 P.E. 534  
 259.8171  
 Job No. 13054

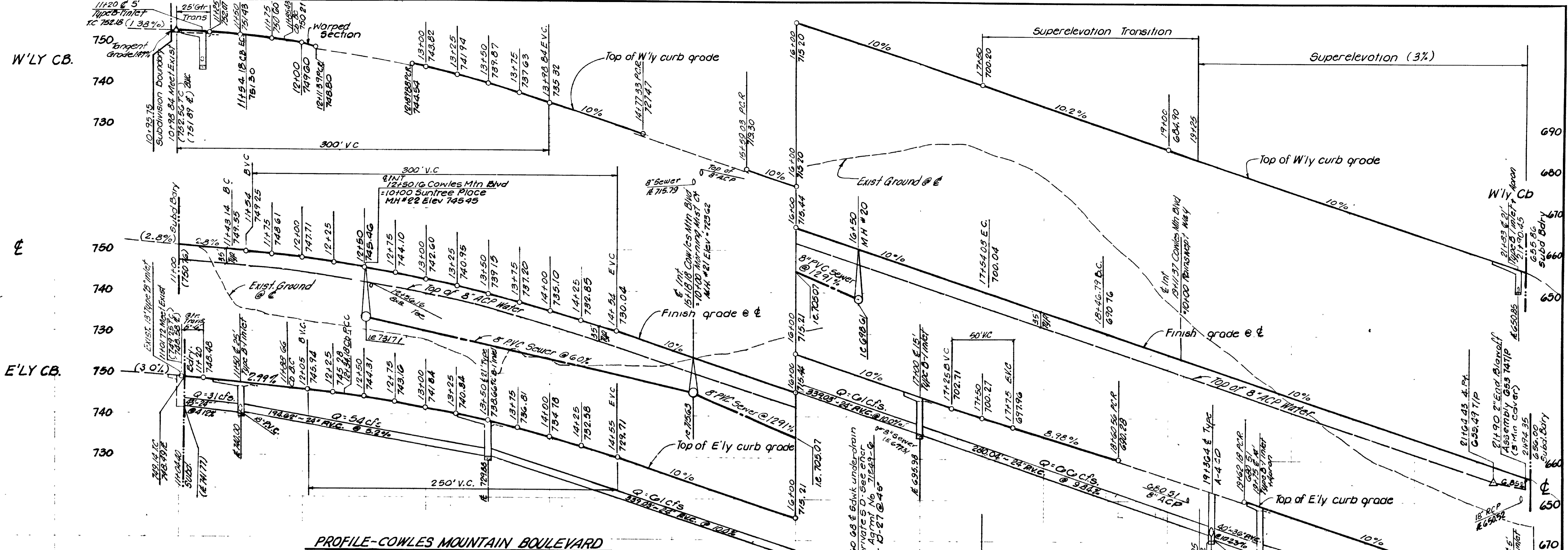
MICROFILMED AS BUILT  
 SEP 2 1966



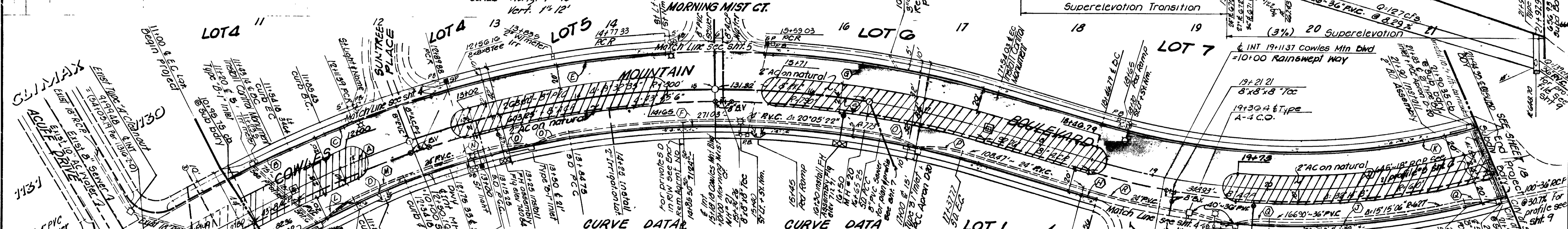
Engineer of Work *Byrd Phelps* RCE 1534  
 BYRD D. PHELPS - MUNICIPAL ENGINEERS INC.  
 434 Land Title Bldg.  
 San Diego, Calif. 92101  
 239-8171  
 Job N° 3836

PRIVATE CONTRACT			
PLANS FOR THE IMPROVEMENT OF CLIMAX UNIT N°16			
CITY OF SAN DIEGO		ENGINEERING DEPARTMENT	
SHEET 4 OF 6 SHEETS		W.C. 77158	
PLAN REVISION	DATE	APPROVAL	BY
AS BUILT	MEMO 9/16/66	<i>W.D. Phelps</i>	<i>9/16/66</i>
CONSTRUCTION RECORD	DATE CHECKED	BY	APPROVAL
10-3-66	9-8-67	<i>W.D. Phelps</i>	<i>9/8/67</i>
DATE REVISION	BY	REVISION	BY
CONTR. CAMERON BROS.	W.D. PHILPS	WATER	SEWER
FIELD BOOK L.C. 234-1765		ELECTRICAL	TRAFFIC

**AS BUILT**



PROFILE-COWLES MOUNTAIN BOULEVARD  
SCALE: Horiz. 1"=40'  
Vert. 1"=12'



**CURVE DATA**

Δ	R	L	T	Δ	R	L	T
(A) 43° 45' 6"	800.00'	610.89'	321.21'	(D) 21° 10' 21"	*100.00'	36.95'	18.69'
(B) 3° 16' 20"	1034.00'	59.05'	29.53'	(E) 10° 15' 17"	*100.00'	29.53'	14.88'
(C) 1° 14' 27"	832.00'	8.02'	9.01'	(F) 8° 29' 54"	627.00'	93.00'	46.59'
(D) 6° 15' 39"	400.00'	43.71'	21.88'	(G) 9° 26' 27"	800.00'	131.92'	66.06'
(E) 13° 15' 32"	832.00'	192.53'	96.70'				
(F) 37° 13' 53"	768.00'	499.06'	258.69'				
(G) 13° 28' 11"	832.00'	195.60'	98.25'				
(H) 1° 18' 53"	632.00'	14.50'	7.25'				
(I) 33° 11' 53"	600.00'	347.56'	178.81'				
(J) 22° 30' 44"	632.00'	248.32'	125.78'				
(K) 32° 48' 27"	568.00'	325.24'	167.21'				
(L) 22° 30' 8"	*100.00'	39.27'	19.89'				
(M) 6° 05' 09"	405.00'	43.02'	21.53'				
(N) 5° 25' 22"	773.00'	78.33'	39.20'				
(O) 19° 28' 49"	*100.00'	34.00'	17.17'				

CITY OF SANTEE  
DEPARTMENT OF PUBLIC WORKS  
For alignment & grade only

Approved by *John P. Sullivan*  
John P. Sullivan, Director of  
Public Service, City of Santee

AS-BUILT  
*Samuel F. Safino* 1-7-85  
Samuel F. Safino RCE 13177

BENCH MARK  
Brass Plug Northwest corner  
of intersection of Acuff Dr.  
and Cowles Mountain Blvd.  
(elevation 754.548 M.S.L.)

**SB & O**  
PLANNING-DESIGN CONSULTATION  
Civil Engineering  
Structural Engineering  
Land Surveying

3615 Kraus Villa Road, Suite 201  
San Diego, California 92121 • (714) 561-1141

*Samuel F. Safino* 6-15-81  
Samuel F. Safino RCE 13177

LOT 2 PRIVATE CONTRACT  
PLANS FOR THE IMPROVEMENTS OF  
**COWLES MOUNTAIN BOULEVARD**  
IN COWLES MOUNTAIN VILLAGE UNIT 1

CITY OF SAN DIEGO, CALIFORNIA  
SHEET 3 OF 2 SHEETS  
7-16-82  
DATE

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL				
Change	SB&O		7-16-82	

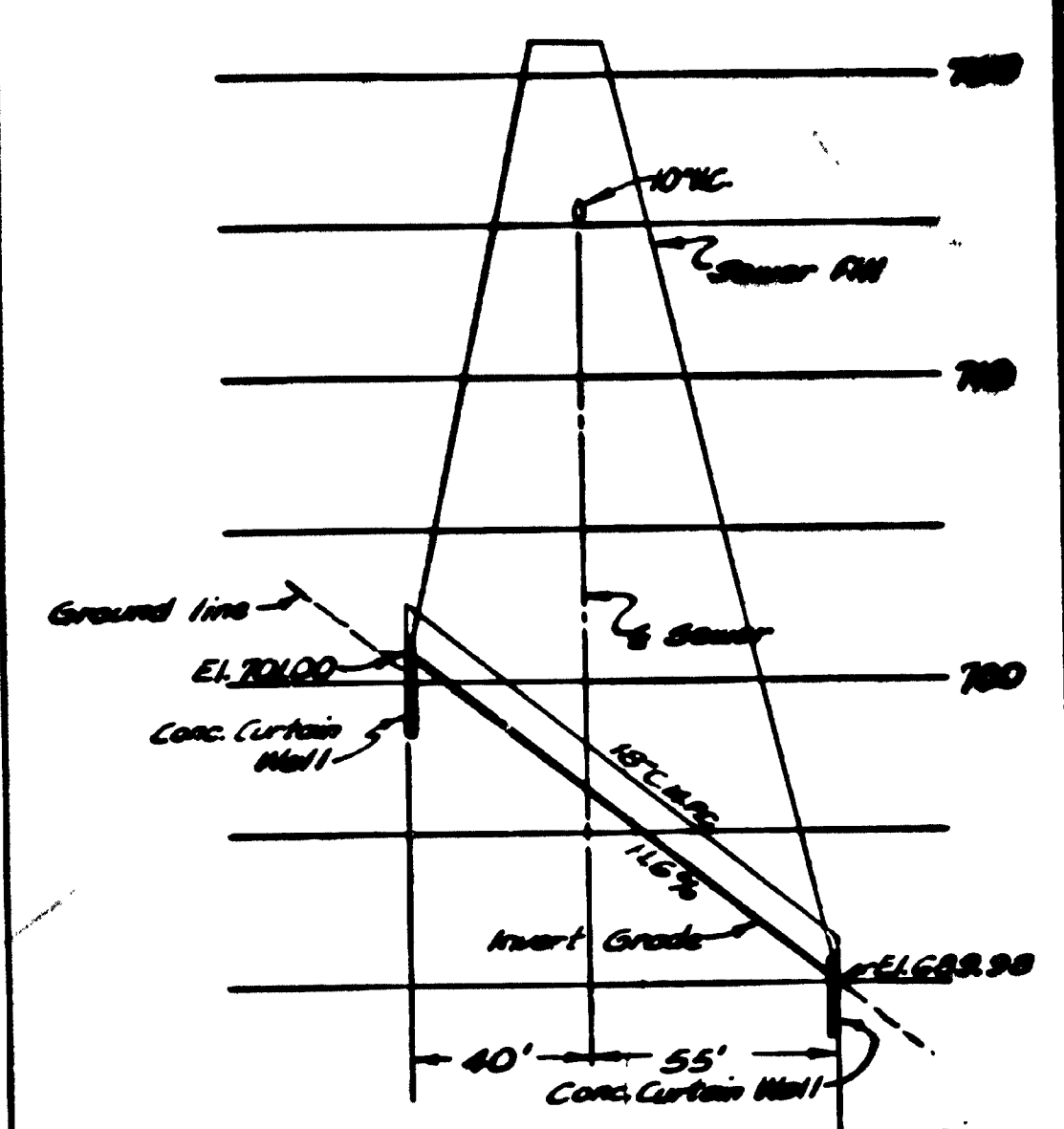
CONTRACTOR: BREHNA NAVARRO  
DATE STARTED: 7-16-82  
DATE COMPLETED: 6-14-83

236-1763  
LAURENT COORDINATES  
2262210  
Rev 2-4-82



**SEWER LATERAL TABLE**

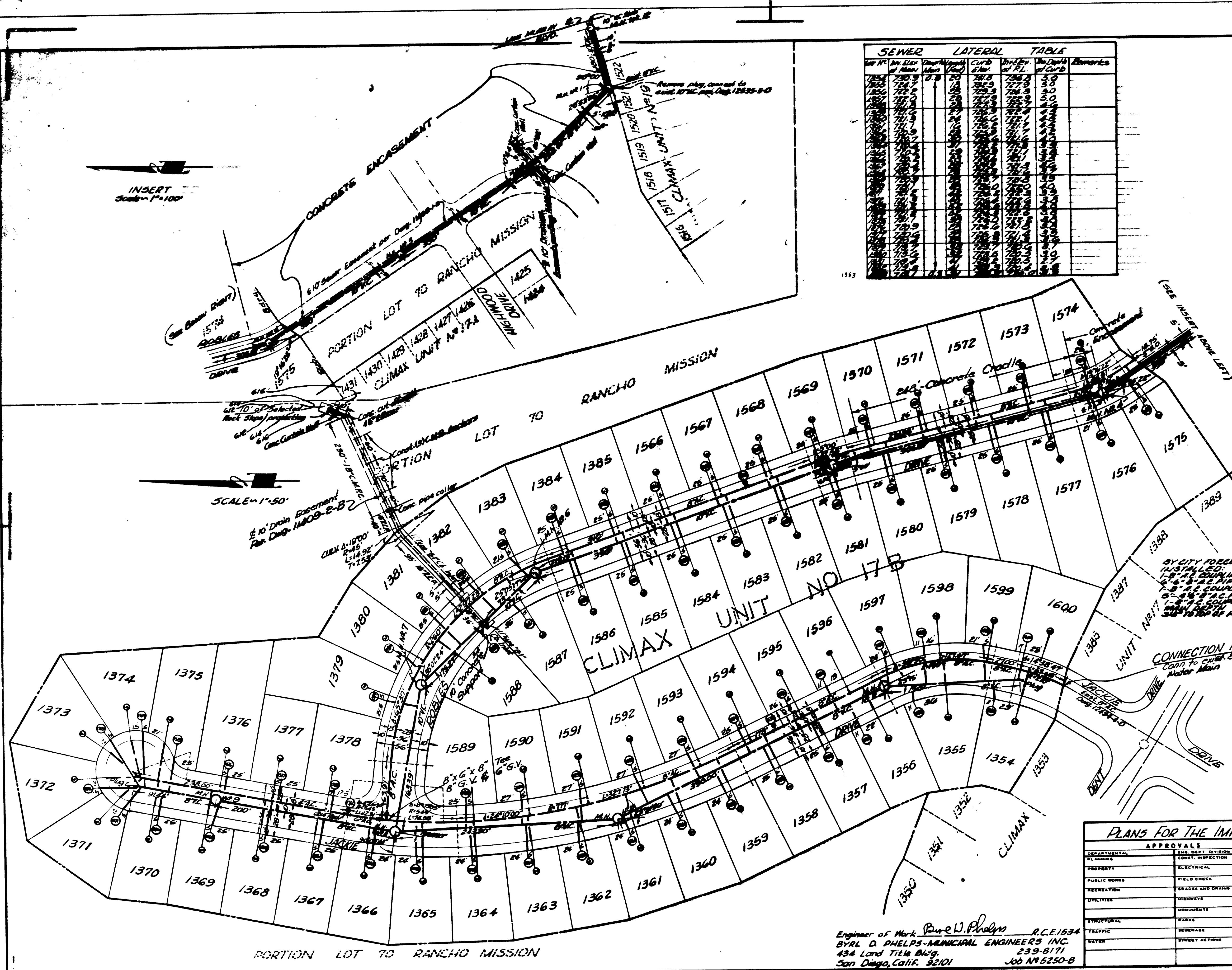
Lot No.	Inv. Elev. of Man. (Feet)	Depth of Man. (Feet)	Curb Elev. (Feet)	Inv. Elev. of Curb (Feet)	Remarks
1372	721.0	0.8	721.8	721.0	
1373	721.0	0.8	721.8	721.0	
1374	721.0	0.8	721.8	721.0	
1375	721.0	0.8	721.8	721.0	
1376	721.0	0.8	721.8	721.0	
1377	721.0	0.8	721.8	721.0	
1378	721.0	0.8	721.8	721.0	
1379	721.0	0.8	721.8	721.0	
1380	721.0	0.8	721.8	721.0	
1381	721.0	0.8	721.8	721.0	
1382	721.0	0.8	721.8	721.0	
1383	721.0	0.8	721.8	721.0	
1384	721.0	0.8	721.8	721.0	
1385	721.0	0.8	721.8	721.0	
1386	721.0	0.8	721.8	721.0	
1387	721.0	0.8	721.8	721.0	
1388	721.0	0.8	721.8	721.0	
1389	721.0	0.8	721.8	721.0	
1390	721.0	0.8	721.8	721.0	
1391	721.0	0.8	721.8	721.0	
1392	721.0	0.8	721.8	721.0	
1393	721.0	0.8	721.8	721.0	
1394	721.0	0.8	721.8	721.0	
1395	721.0	0.8	721.8	721.0	
1396	721.0	0.8	721.8	721.0	
1397	721.0	0.8	721.8	721.0	
1398	721.0	0.8	721.8	721.0	
1399	721.0	0.8	721.8	721.0	
1400	721.0	0.8	721.8	721.0	



**PROFILE OF CULVERT UNDER SEWER FILL**  
 SCALES - HOR. 1" = 40'  
 VERT. 1" = 6'

**SEWER LATERAL TABLE**

Lot No.	Inv. Elev. of Man. (Feet)	Depth of Man. (Feet)	Curb Elev. (Feet)	Inv. Elev. of Curb (Feet)	Remarks
1394	719.0	0.8	719.8	719.0	
1395	719.0	0.8	719.8	719.0	
1396	719.0	0.8	719.8	719.0	
1397	719.0	0.8	719.8	719.0	
1398	719.0	0.8	719.8	719.0	
1399	719.0	0.8	719.8	719.0	
1400	719.0	0.8	719.8	719.0	
1401	719.0	0.8	719.8	719.0	
1402	719.0	0.8	719.8	719.0	
1403	719.0	0.8	719.8	719.0	
1404	719.0	0.8	719.8	719.0	
1405	719.0	0.8	719.8	719.0	
1406	719.0	0.8	719.8	719.0	
1407	719.0	0.8	719.8	719.0	
1408	719.0	0.8	719.8	719.0	
1409	719.0	0.8	719.8	719.0	
1410	719.0	0.8	719.8	719.0	
1411	719.0	0.8	719.8	719.0	
1412	719.0	0.8	719.8	719.0	
1413	719.0	0.8	719.8	719.0	
1414	719.0	0.8	719.8	719.0	
1415	719.0	0.8	719.8	719.0	
1416	719.0	0.8	719.8	719.0	
1417	719.0	0.8	719.8	719.0	
1418	719.0	0.8	719.8	719.0	
1419	719.0	0.8	719.8	719.0	
1420	719.0	0.8	719.8	719.0	



INSERT  
Scale 1" = 100'

SCALE 1" = 50'

Engineer of Work: *Byrd D. Phelps* R.C.E. 1534  
 BYRD D. PHELPS-MUNICIPAL ENGINEERS INC.  
 434 Land Title Bldg. 239-8171  
 San Diego, Calif. 92101 Job No. 5250-B

**PLANS FOR THE IMPROVEMENT OF CLIMAX UNIT No. 17-B**

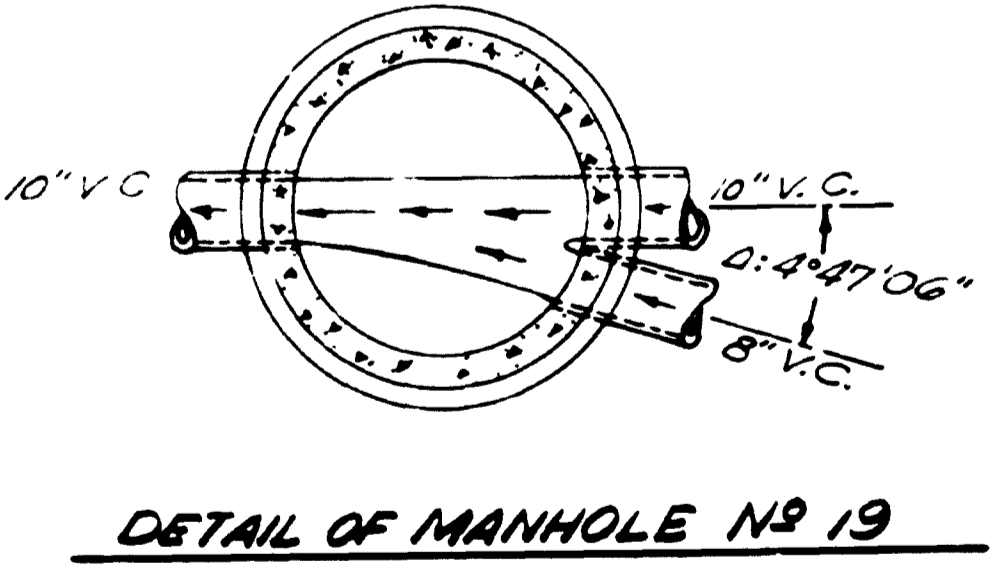
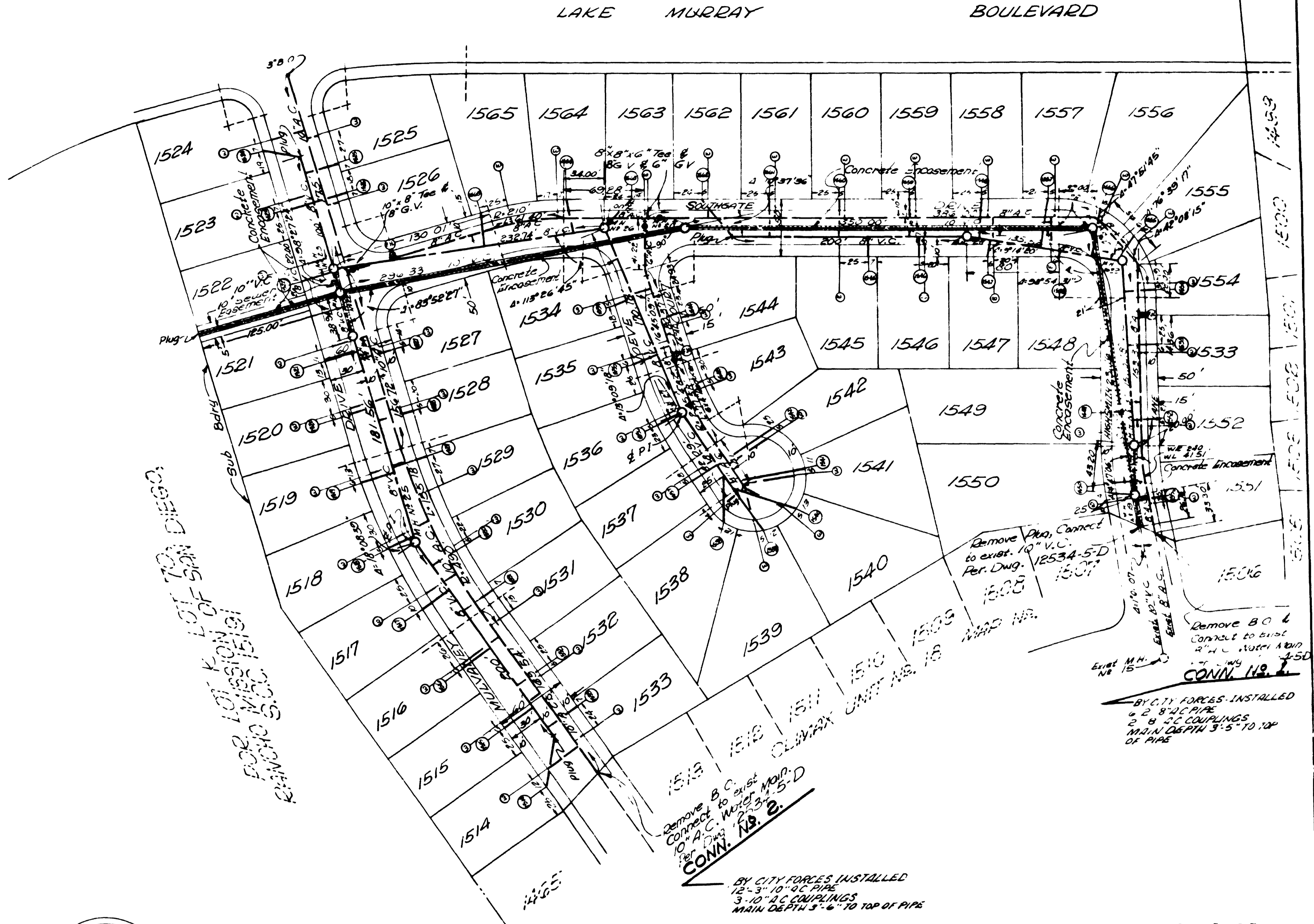
APPROVALS

DEPARTMENTAL	CITY DIVISION OR SECTION	CITY OF SAN DIEGO, CALIFORNIA	ENGINEERING DEPARTMENT	NO. 77417
PLANNING	CONST. INSPECTION		SHEET 4 OF 6 SHEETS	
PROPERTY	ELECTRICAL	<i>J. C. Gandy</i>	DATE 1-5-68	DIVISION HEAD
PUBLIC WORKS	FIELD CHECK			
RECREATION	GRADES AND DRAINS			
UTILITIES	HIGHWAYS			
STRUCTURAL	IMPROVEMENTS			
TRAFFIC	FINISHES			
WATER	SEWERAGE			
	STREET ACTIONS			

CONTRACTOR: AMERICAN HOUSING BUILD  
 INSPECTOR: R. SULLIS  
 DATE STARTED: 12-17-70  
 DATE COMPLETED: 1-28-71  
 234-1765  
 12908-4-D

**AS BUILT**

SEWER LATERAL TABLE							
Lot No	Inv Elev. of Main	Depth of Main	Length (feet)	Curb Elev.	Inv Elev. of D.L.	Inv. Depth of Curb	Remarks
1514	752.0	30	752.5	757.0		5.5	
1515	748.0	30	758.0	752.0			
1516	744.8	28	758.7	749.2			
1517	743.9	29	759.8	746.4			
1518	738.4	30	746.1	745.6			
1519	736.8	30	743.9	739.4			
1520	736.8	30	743.9	739.4			
1521	736.8	30	743.9	739.4			
1522	736.8	30	743.9	739.4			
1523	736.8	30	743.9	739.4			
1524	736.8	30	743.9	739.4			
1525	736.8	30	743.9	739.4			
1526	736.8	30	743.9	739.4			
1527	736.8	30	743.9	739.4			
1528	736.8	30	743.9	739.4			
1529	736.8	30	743.9	739.4			
1530	736.8	30	743.9	739.4			
1531	736.8	30	743.9	739.4			
1532	736.8	30	743.9	739.4			
1533	736.8	30	743.9	739.4			
1534	736.8	30	743.9	739.4			
1535	736.8	30	743.9	739.4			
1536	736.8	30	743.9	739.4			
1537	736.8	30	743.9	739.4			
1538	736.8	30	743.9	739.4			
1539	736.8	30	743.9	739.4			
1540	736.8	30	743.9	739.4			
1541	736.8	30	743.9	739.4			
1542	736.8	30	743.9	739.4			
1543	736.8	30	743.9	739.4			
1544	736.8	30	743.9	739.4			
1545	736.8	30	743.9	739.4			
1546	736.8	30	743.9	739.4			
1547	736.8	30	743.9	739.4			
1548	736.8	30	743.9	739.4			
1549	736.8	30	743.9	739.4			
1550	736.8	30	743.9	739.4			DEEP CUT LAT
1551	736.8	30	743.9	739.4			DEEP CUT LAT
1552	736.8	30	743.9	739.4			
1553	736.8	30	743.9	739.4			
1554	736.8	30	743.9	739.4			
1555	736.8	30	743.9	739.4			
1556	736.8	30	743.9	739.4			
1557	736.8	30	743.9	739.4			
1558	736.8	30	743.9	739.4			
1559	736.8	30	743.9	739.4			
1560	736.8	30	743.9	739.4			
1561	736.8	30	743.9	739.4			
1562	736.8	30	743.9	739.4			
1563	736.8	30	743.9	739.4			
1564	736.8	30	743.9	739.4			
1565	736.8	30	743.9	739.4			

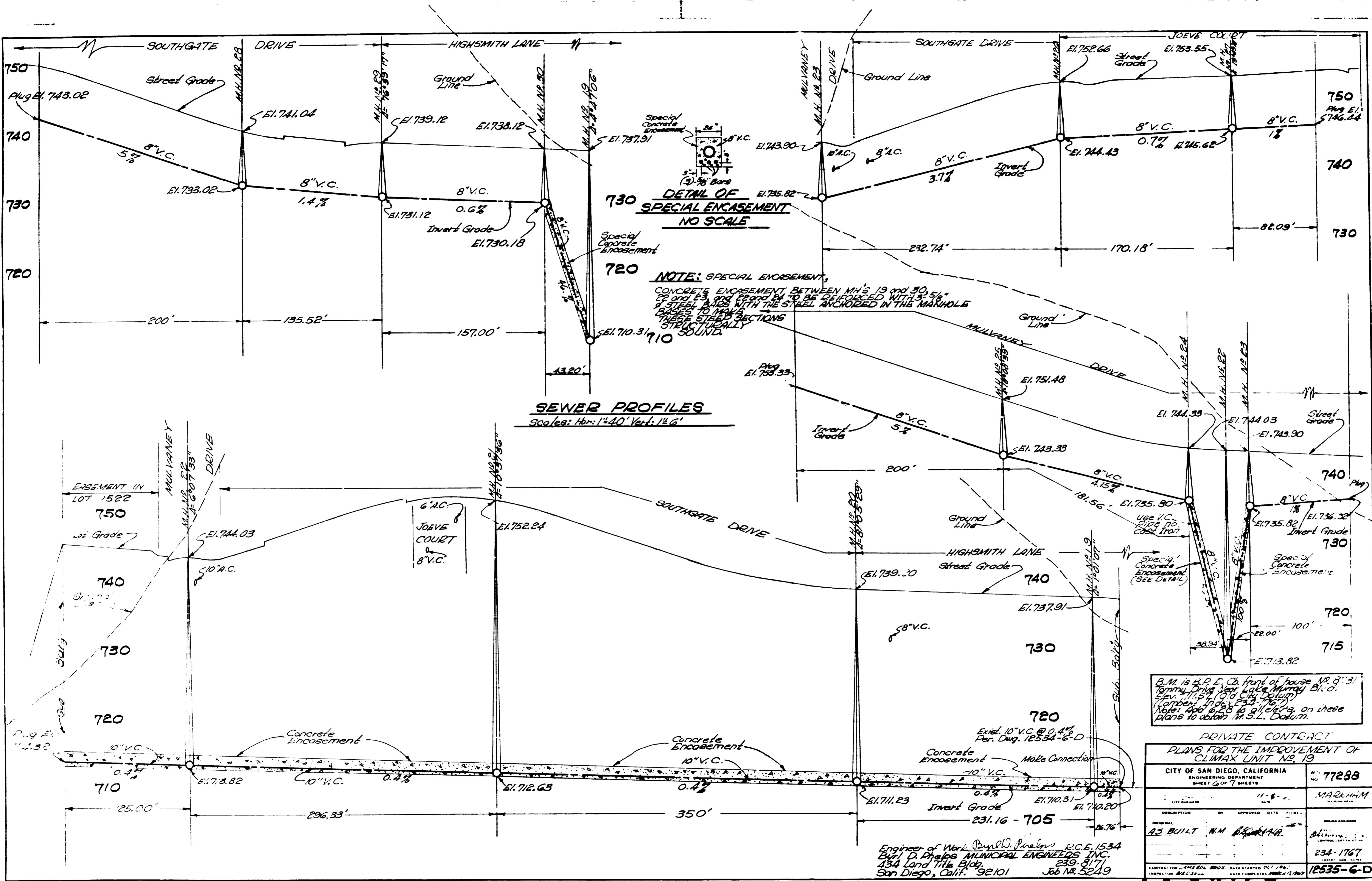


DETAIL OF MANHOLE NO 19

Engineer of Work, *Byrd D. Phelps* P.C.E. 1534  
 Byrd D. Phelps MUNICIPAL ENGINEERS, INC.  
 434 Land Title Bldg.  
 San Diego, Calif. 92101 Job No. 5249

CITY OF SAN DIEGO, CALIFORNIA		NO. 77288
ENGINEERING DEPARTMENT		
SHEET NO. 7		
DESCRIPTION		DATE
ORIGINAL	BY	APPROVED
12/12/01	MM	MM
45 BUILT	MM	MM
CONTRACTOR		DATE
12535-S-D		12535-S-D

**AS BUILT**



**SEWER PROFILES**  
 Scales: Hbr.: 1"=40' Vert.: 1"=6'

**730 DETAIL OF SPECIAL ENCASUREMENT NO SCALE**

**720 NOTE: SPECIAL ENCASEMENT, CONCRETE ENCASUREMENT BETWEEN MH'S 19 AND 30, 5' x 5' x 23' HIGH TO BE REINFORCED WITH 5" x 5" STEEL BARS WITH THE STEEL ANCHORED IN THE MANHOLE BASES TO MAKE THESE STEEP SECTIONS STRUCTURALLY SOUND.**

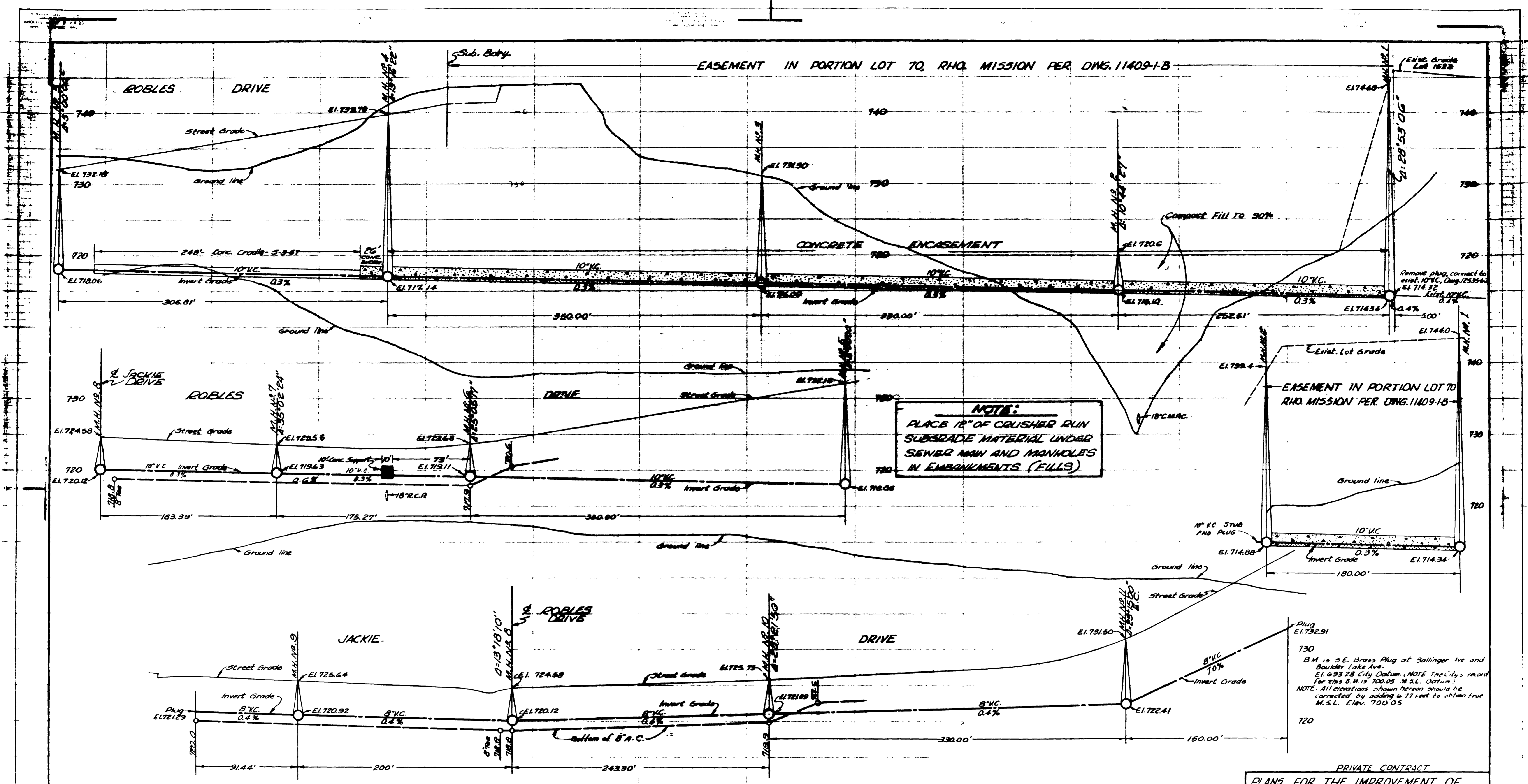
B.M. is B.P.E. Ch. front of house No. 9131  
 Tommy Drive near Lake Murray Blvd.  
 Elev. 711.52 (Old City Datum)  
 (Corbett Index 22-1767)  
 Note: Add 6.28 to all elevs. on these  
 plans to obtain M.S.L. Datum.

PRIVATE CONTRACT			
PLANS FOR THE IMPROVEMENT OF CLIMAX UNIT NO. 19			
CITY OF SAN DIEGO, CALIFORNIA	NO. 77288	ENGINEERING DEPARTMENT	
SHEET 6 OF 7 SHEETS		DATE 11-8-61	
DESCRIPTION	BY	APPROVED	DATE FILED
A3 BUILT N.M.	MARSHAM		
CONTRACTOR: AME ENR. #803, DATE STARTED OCT. 1961		DATE COMPLETED FEBRUARY 1962	
INSPECTOR: BAC 32		234-1767	
		12535-6-D	

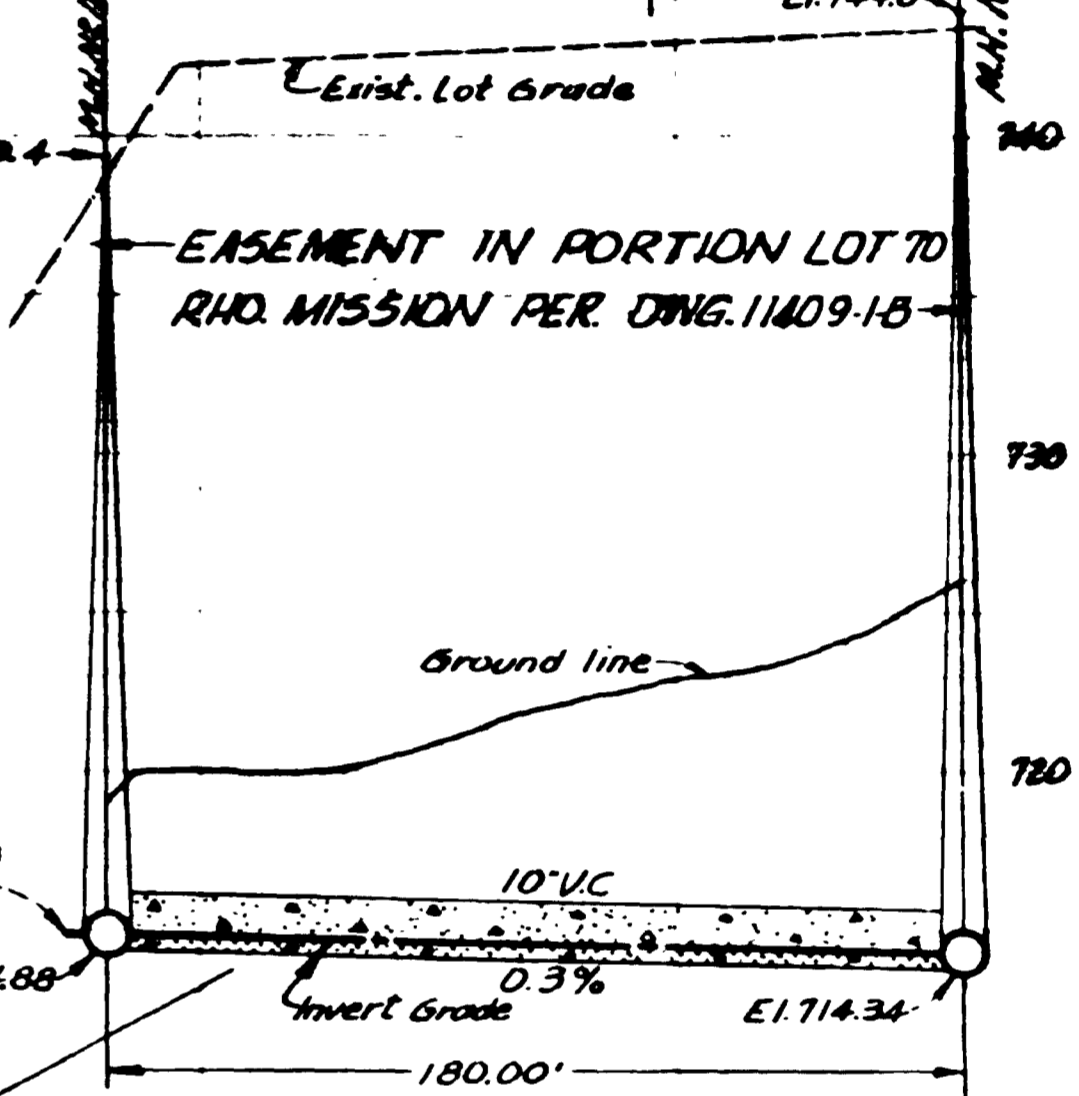
Engine of Work Council, Pipelines P.C.E. 1534  
 Earl D. Phelps MUNICIPAL ENGINEERS INC.  
 434 Land Title Bldg.  
 San Diego, Calif. 92101 Job No. 3249

**AS BUILT**

EASEMENT IN PORTION LOT 70, RHO. MISSION PER DWS. 11409-1-B



**NOTE:**  
PLACE 12" OF CRUSHED RUN  
SUBGRADE MATERIAL UNDER  
SEWER MAN AND MANHOLES  
IN EMBANKMENTS (FILLS)



**SEWER PROFILES**  
Scale: Hor: 1"=40' Vert: 1"=6'

PRIVATE CONTRACT

PLANS FOR THE IMPROVEMENT OF  
CLIMAX UNIT N° 17-B

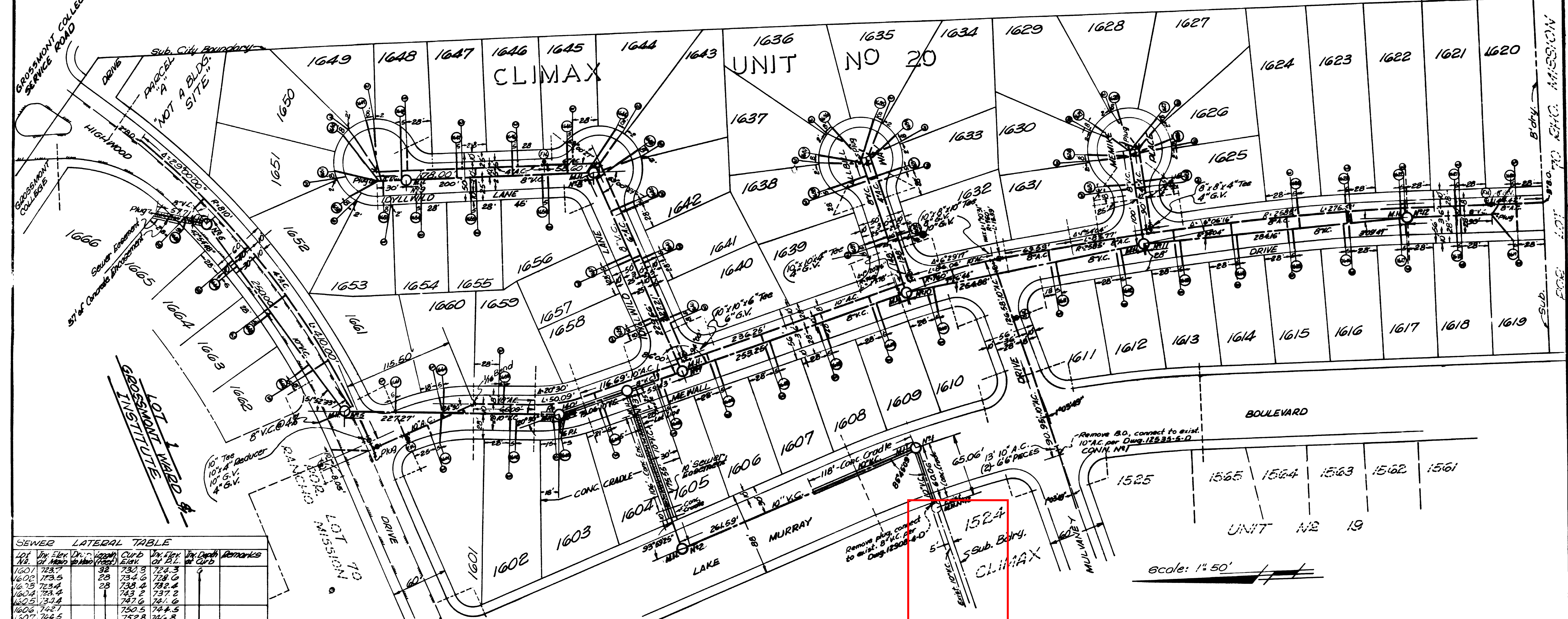
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 5 OF 6 SHEETS		W.O. NO. 77417
APPROVED BY: [Signature]	DATE: [Date]	DATE: [Date]
DESCRIPTION: [Text]	BY: [Text]	DATE: [Date]
DESIGNED BY: [Text]	DATE: [Date]	NO. [Text]
CONTRACTOR: [Text]	DATE STARTED: [Date]	DATE COMPLETED: [Date]

INSPECTOR: [Text]

Engineer of Work: [Signature]  
BY: [Signature] MUNICIPAL ENGINEERS, INC.  
434 LIND TREN DRIVE  
SAN DIEGO, CALIF. 92101

**AS BUILT**

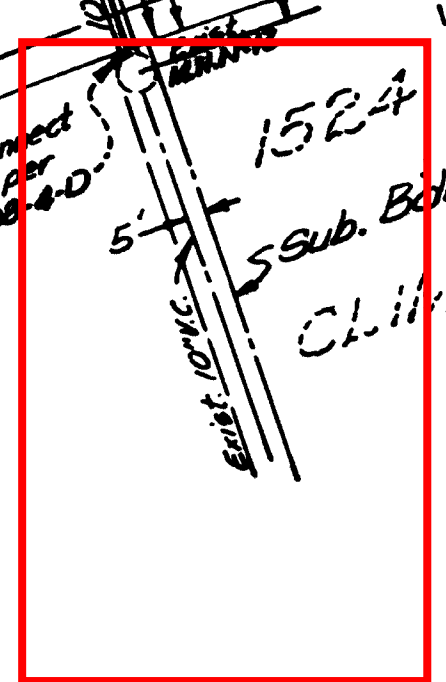
RHO. EL. CAJON



LOT NO.	IN. Elev. of Manhole	Drop	Length	Curb Elev.	IN. Elev. of P.I.	IN. Depth of Curb	Remarks
1601	723.7	38	730.5	726.3			
1602	723.5	28	734.4	728.4			
1603	723.4		743.2	737.2			
1604	723.4		747.6	741.6			
1605	723.4		750.5	744.5			
1606	723.4		752.8	746.8			
1607	723.4		755.0	749.0			
1608	723.4		757.2	751.2			
1609	723.4	28	759.4	753.4			
1610	723.4	25	764.4	758.4			
1611	723.4	27	769.0	763.0			
1612	723.4	24	770.2	764.2			
1613	723.4	23	771.0	765.0			
1614	723.4	25	770.5	764.5			
1615	723.4	24	769.4	763.4			
1616	723.4	25	767.8	761.8			
1617	723.4	25	767.8	761.8			
1618	723.4	25	767.8	761.8			
1619	723.4	25	767.8	761.8			
1620	723.4	25	767.8	761.8			
1621	723.4	25	767.8	761.8			
1622	723.4	25	767.8	761.8			
1623	723.4	25	767.8	761.8			
1624	723.4	25	767.8	761.8			
1625	723.4	25	767.8	761.8			
1626	723.4	25	767.8	761.8			
1627	723.4	25	767.8	761.8			
1628	723.4	25	767.8	761.8			
1629	723.4	25	767.8	761.8			
1630	723.4	25	767.8	761.8			
1631	723.4	25	767.8	761.8			
1632	723.4	25	767.8	761.8			
1633	723.4	25	767.8	761.8			
1634	723.4	25	767.8	761.8			
1635	723.4	25	767.8	761.8			
1636	723.4	25	767.8	761.8			
1637	723.4	25	767.8	761.8			
1638	723.4	25	767.8	761.8			
1639	723.4	25	767.8	761.8			
1640	723.4	25	767.8	761.8			
1641	723.4	25	767.8	761.8			
1642	723.4	25	767.8	761.8			
1643	723.4	25	767.8	761.8			
1644	723.4	25	767.8	761.8			
1645	723.4	25	767.8	761.8			
1646	723.4	25	767.8	761.8			
1647	723.4	25	767.8	761.8			
1648	723.4	25	767.8	761.8			
1649	723.4	25	767.8	761.8			

LOT NO.	IN. Elev. of Manhole	Drop	Length	Curb Elev.	IN. Elev. of P.I.	IN. Depth of Curb	Remarks
1650	723.4	25	767.8	761.8			
1651	723.4	25	767.8	761.8			
1652	723.4	25	767.8	761.8			
1653	723.4	25	767.8	761.8			
1654	723.4	25	767.8	761.8			
1655	723.4	25	767.8	761.8			
1656	723.4	25	767.8	761.8			
1657	723.4	25	767.8	761.8			
1658	723.4	25	767.8	761.8			
1659	723.4	25	767.8	761.8			
1660	723.4	25	767.8	761.8			
1661	723.4	25	767.8	761.8			
1662	723.4	25	767.8	761.8			
1663	723.4	25	767.8	761.8			
1664	723.4	25	767.8	761.8			
1665	723.4	25	767.8	761.8			
1666	723.4	25	767.8	761.8			

FOR LOT 70, RHO. MISSION

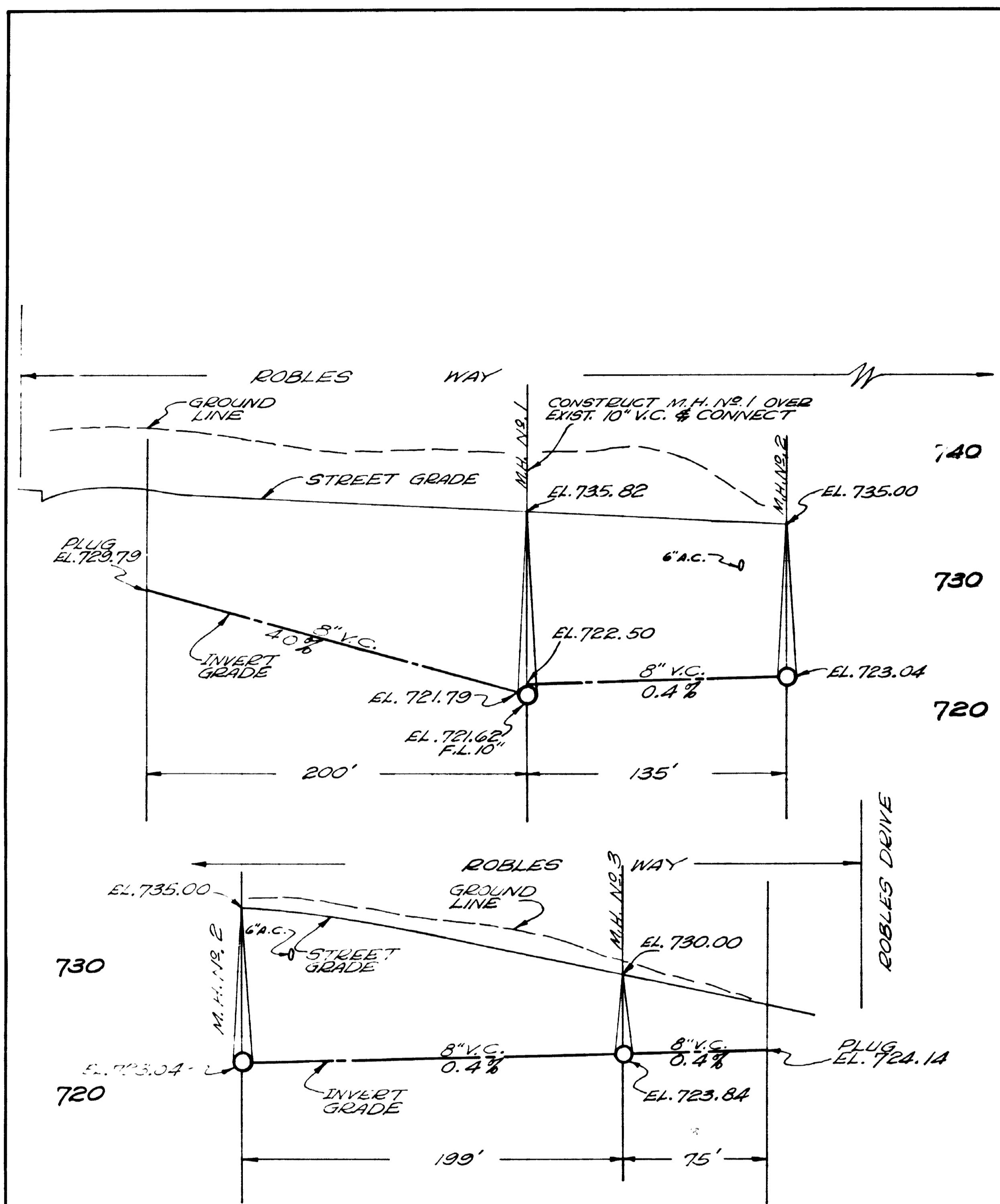


Scale: 1" = 50'

PRIVATE CONTRACT  
PLANS FOR THE IMPROVEMENT OF CLIMAX UNIT NO. 20

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 6 OF 8 SHEETS	NO. 14001
CHANGE	BY	DATE	APPROVAL
ADD LATERALS	AS-BUILT	11-12-68	11-30-70
DATE STARTED	DATE COMPLETED	CONTRACT NO.	13280-6-D
ENGINEER	DESIGNER	CHECKED	APPROVED
CONTRACTOR	SUBCONTRACTOR	DATE	

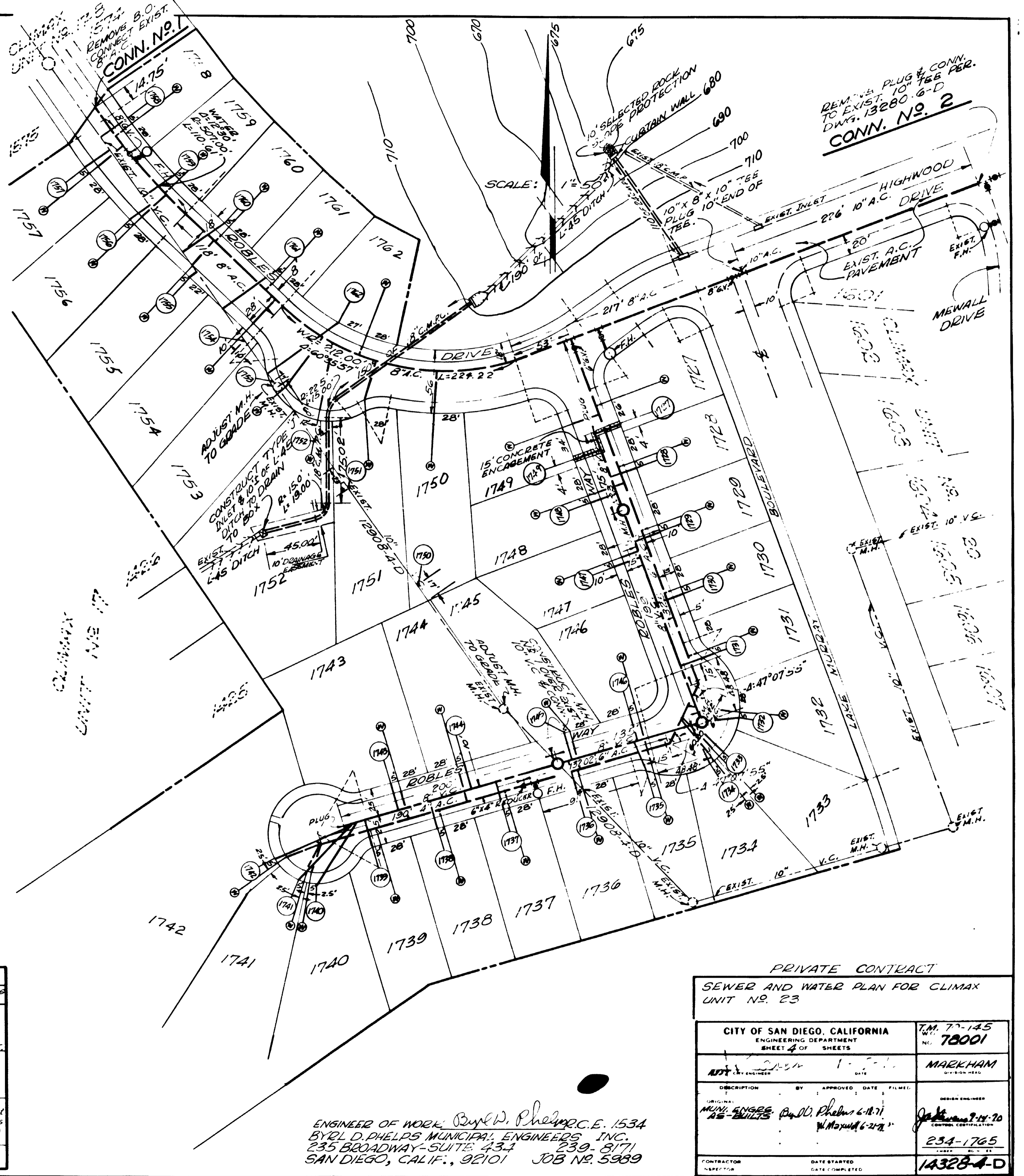
Engineer of Work: Paul D. Phelps, P.C.E. 1534  
234 Land Title Bldg. San Diego, Calif. 92101  
239-8171  
JOB NO. 5251



**SEWER PROFILES**  
SCALE: HOR. 1"=40' VERT. 1"=5'

B.M. 19 B.P. IN FRONT OF 8781 TOMMY DRIVE  
ELEV. 777.85 M.S.L. DATUM.

SEWER LATERAL TABLE											
LOT NO.	IN. DIA.	DEPT.	LENGTH	CURB INVERT ELEV.	INVERT AT P.L.	INVERT AT CURB	CONNECTION	LOT NO.	IN. DIA.	DEPT.	LENGTH
NO.	AT MIN.	AT MAX.	(FEET)	ELEV.	AT P.L.	AT CURB		NO.	AT MIN.	AT MAX.	(FEET)
1727	722.1	0.3	25	727.9	724.9	3.0	ENCASS.	1745	722.5	1.0	25
1728	724.0	3.8	25	729.1	724.8	4.3		1746	723.8	1.0	25
1729	723.7	1.0	25	730.9	725.2	5.5		1747	723.7	1.0	25
1730	723.5	2.5	25	732.7	725.0			1748	723.9	0.3	25
1731	723.2	3.3	33	734.5	724.9			1749	724.1	0.3	25
1732	723.0	3.3	33	734.9	724.7			1750			
1733	723.0	3.6	36	735.1	724.7			1751			
1734	723.0	3.8	38	735.2	724.8			1752			
1735	722.7	2.6	26	734.4	724.3			1753			
1736	722.5	2.5	25	735.8	724.0			1754			
1737	724.3	2.5	25	732.2	725.8			1755	723.2	1.0	25
1738	724.8	2.5	25	732.6	729.3			1756	723.4	1.0	21
1739	729.2	2.5	25	737.0	730.7			1757	723.6	1.0	27
1740	729.6	6.5	65	737.9	731.9			1758	723.7	1.0	29
1741	729.7	7.0	70	737.4	732.1			1759	723.6	1.0	35
1742	729.8	7.0	70	737.5	732.2			1760	723.3	1.0	45
1743	728.0	2.5	25	735.8	729.5			1761	723.1	1.0	53
1744	728.3	1.0	25	736.2	729.3			1762	722.9	1.0	78
								1763	722.9	1.0	78



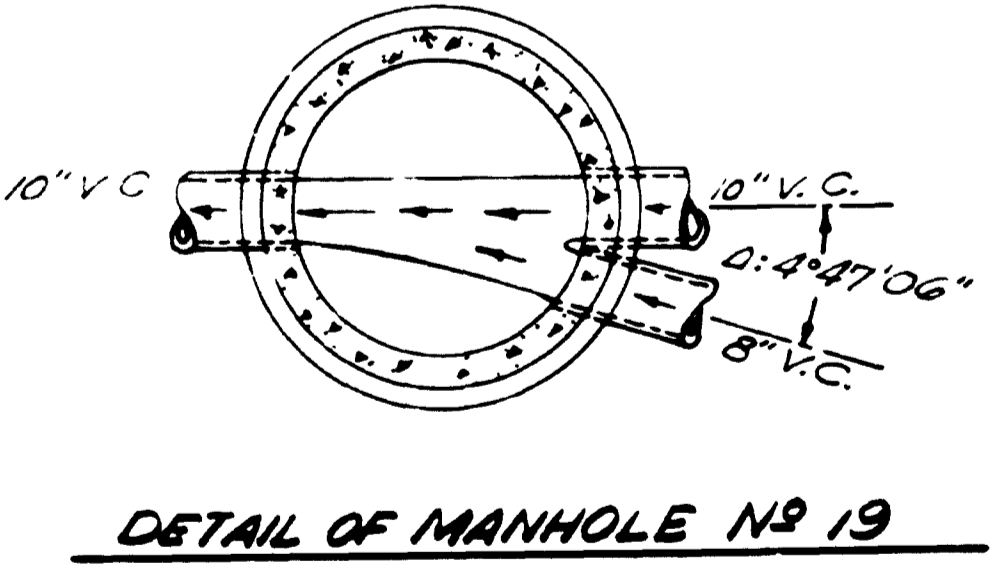
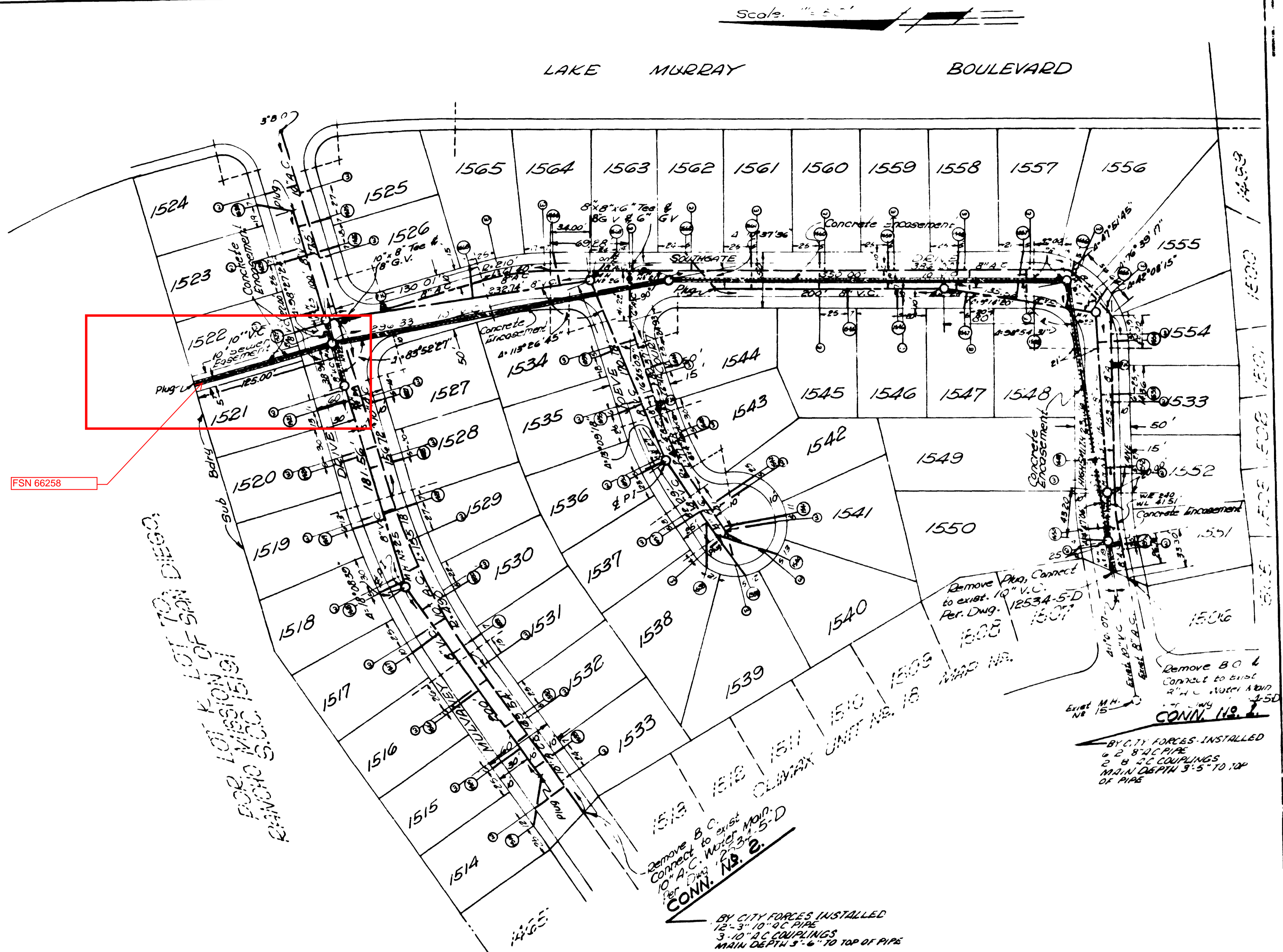
ENGINEER OF WORK: *Byrd D. Phelps* P.E. 1534  
BYRD D. PHELPS MUNICIPAL ENGINEERS, INC.  
235 BROADWAY-SUITE 431 239-8171  
SAN DIEGO, CALIF., 92101 JOB NO. 5959

PRIVATE CONTRACT  
SEWER AND WATER PLAN FOR CLIMAX UNIT NO. 23

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 4 OF SHEETS	T.M. 77-125 NO. 78001
APPROVED BY: <i>Byrd D. Phelps</i>	DESIGNED BY: <i>Byrd D. Phelps</i>
DATE: 12-27-70	DATE: 12-27-70
CONTRACTOR: <i>AS BUILT</i>	DATE STARTED: <i>12-27-70</i>
	DATE COMPLETED: <i>1-3-71</i>

**AS BUILT**

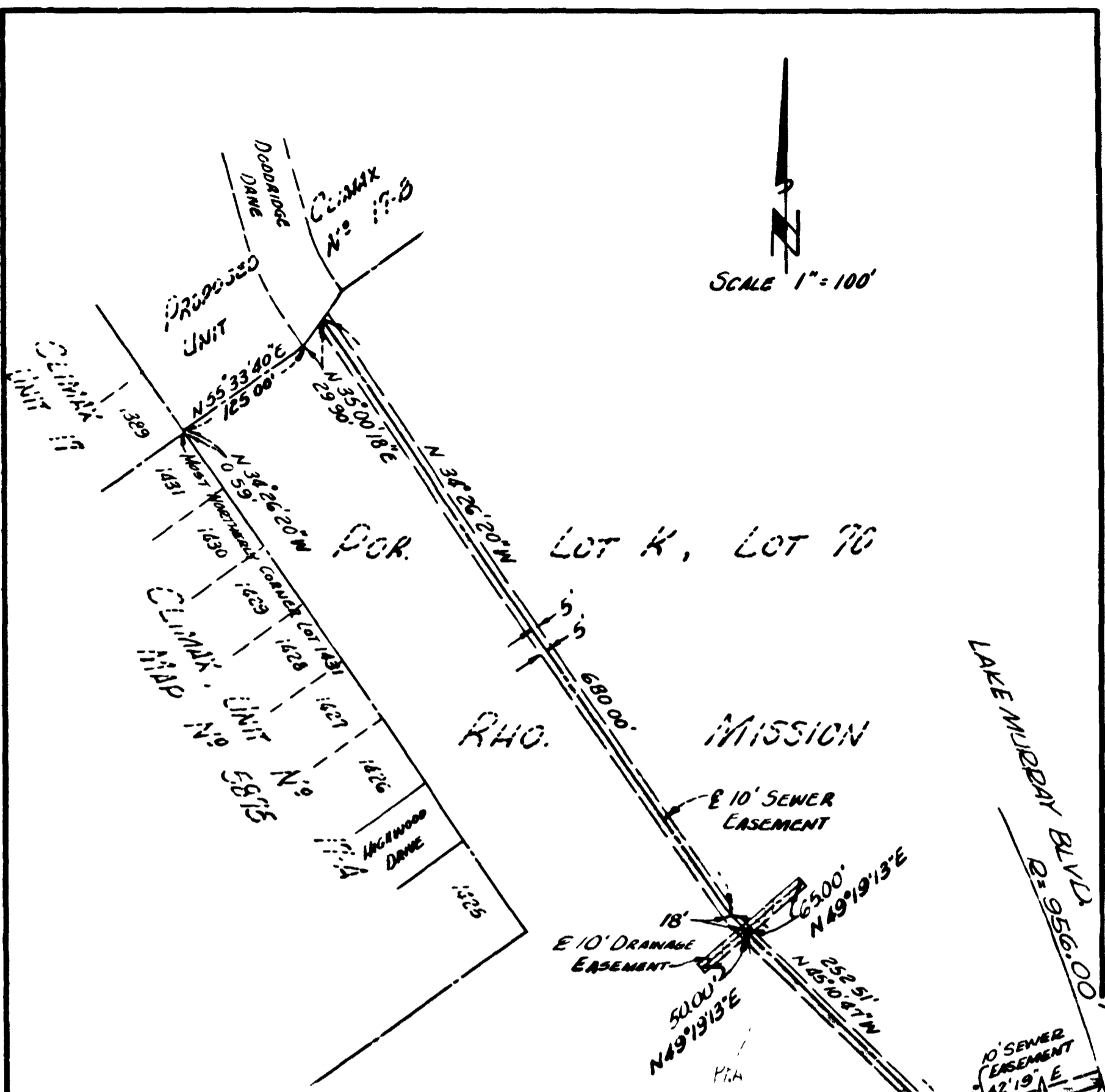
SEWER LATERAL TABLE						
Lot No	Inv Elev. of Man.	Depth of Man.	Length (feet)	Curb Elev.	Inv Elev. of D.L.	Inv. Depth of Curb
1514	752.0	30	752.5	757.0		5.5
1515	748.9	30	758.1	752.0		
1516	744.8	28	758.7	749.2		
1517	743.9	29	759.9	746.4		
1518	738.4	30	746.1	745.6		
1519	736.8	30	743.9	739.4		
1520	736.8	30	743.9	739.4		
1521	736.8	30	743.9	739.4		
1522	736.8	30	743.9	739.4		
1523	736.8	30	743.9	739.4		
1524	736.8	30	743.9	739.4		
1525	736.8	30	743.9	739.4		
1526	736.8	30	743.9	739.4		
1527	736.8	30	743.9	739.4		
1528	736.8	30	743.9	739.4		
1529	736.8	30	743.9	739.4		
1530	736.8	30	743.9	739.4		
1531	736.8	30	743.9	739.4		
1532	736.8	30	743.9	739.4		
1533	736.8	30	743.9	739.4		
1534	736.8	30	743.9	739.4		
1535	736.8	30	743.9	739.4		
1536	736.8	30	743.9	739.4		
1537	736.8	30	743.9	739.4		
1538	736.8	30	743.9	739.4		
1539	736.8	30	743.9	739.4		
1540	736.8	30	743.9	739.4		
1541	736.8	30	743.9	739.4		
1542	736.8	30	743.9	739.4		
1543	736.8	30	743.9	739.4		
1544	736.8	30	743.9	739.4		
1545	736.8	30	743.9	739.4		
1546	736.8	30	743.9	739.4		
1547	736.8	30	743.9	739.4		
1548	736.8	30	743.9	739.4		
1549	736.8	30	743.9	739.4		
1550	736.8	30	743.9	739.4		
1551	736.8	30	743.9	739.4		
1552	736.8	30	743.9	739.4		
1553	736.8	30	743.9	739.4		
1554	736.8	30	743.9	739.4		
1555	736.8	30	743.9	739.4		
1556	736.8	30	743.9	739.4		
1557	736.8	30	743.9	739.4		
1558	736.8	30	743.9	739.4		
1559	736.8	30	743.9	739.4		
1560	736.8	30	743.9	739.4		
1561	736.8	30	743.9	739.4		
1562	736.8	30	743.9	739.4		
1563	736.8	30	743.9	739.4		
1564	736.8	30	743.9	739.4		
1565	736.8	30	743.9	739.4		



Engineer of Work: *D. Phelps* P.C.E. 1534  
 Bldg. D. Phelps MUNICIPAL ENGINEERS, INC.  
 434 Land Title Bldg.  
 San Diego, Calif. 92101 Job No. 5249

CITY OF SAN DIEGO, CALIFORNIA		NO. 77288
ENGINEERING DEPARTMENT		
SHEET 7 OF 7 SHEETS		
DESCRIPTION		DATE
ORIGINAL	BY	APPROVED DATE
12/12/01	MM	12/12/01
45 BUILT	MM	12/12/01
CONTRACTOR: <i>CONTRACTOR</i>		DATE: <i>DATE</i>
INSPECTOR: <i>INSPECTOR</i>		DATE: <i>DATE</i>
		234-1767
		12535-S-D

AS BUILT



SCALE 1" = 100'

ENGINEER OF WORK: Byrl D. Phelps  
 BYRL D. PHELPS RCE 1534

BASIS OF BEARINGS THE NORTHEASTERLY LINE  
 OF LOT 1431, CLIMAX UNIT N° 17-A  
 ACCORDING TO MAP N° 5875  
 IE N 34° 26' 20" W

ML & EP GLEICH, Sewer esmt (Pcl.1), Drain esmt. (Pcl.2)  
 Donation, C.C. 721377, Rec F/P 41718, 3-12-68  
 Res 193115, 3-7-68, Accepts

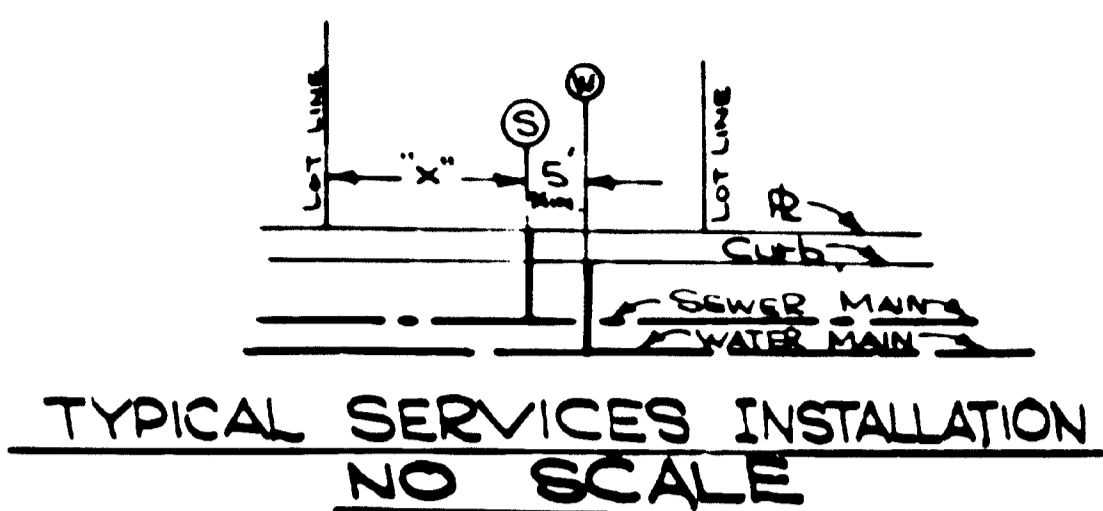
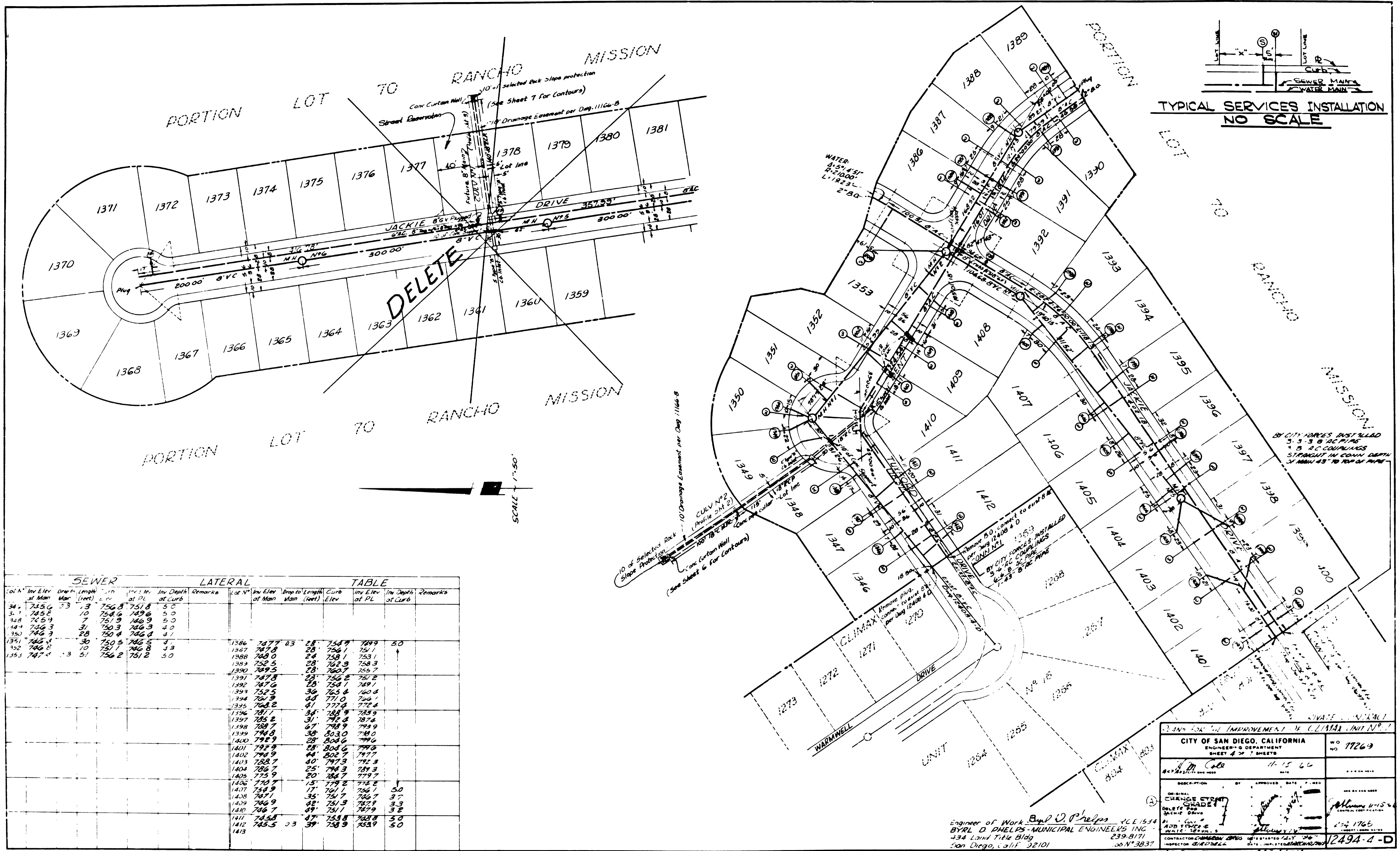
SEWER EASEMENT TO BE ACQUIRED SHOWN  
 SHADED THUS:   
 DRAINAGE EASEMENT TO BE ACQUIRED SHOWN  
 HATCHED THUS:  PRIVATE CONTRACT

SEWER EASEMENT IN DOR LOT K, LOT 70, RANCHO MISSION FOR PROPOSED CLIMAX UNIT N° 17-B

DESCRIPTION	BY	APPROVED	DATE	FILMED	CITY OF SAN DIEGO, CALIFORNIA		W.D. NO.
ORIGINAL				DEC 21 57	ENGINEERING DEPARTMENT		77417
ALL DRAIN CROSSING W/A	<u>J. P. Casey</u>		12-1-67	DEC 20 57	SHEET 1 OF 2 SHEETS		
				DEC 25 57	<u>J. P. Casey</u>	12-1-67	<u>J. P. Casey</u> 12-1-67
					CITY ENGINEER	DATE	CONTROL CERTIFICATION
							236-1766
					DESIGN ENGINEER	PLANNING DEPT	LAM-REPT. COORDINATES
					<u>O. Lawrence</u> 10/2/67		11409-FAB
							JOB N° 5250-B

ACQUIRED





SEWER					LATERAL				
Lot No.	Inv Elev at Man	Drop to Man	Length (feet)	Inv Elev at PL	Lot No.	Inv Elev at Man	Drop to Man	Length (feet)	Inv Elev at PL
34	745.6	33	7	752.8	1386	747.7	23	28	754.9
31	745.2	10	754.9	749.6	1387	749.8	28	756.1	753.1
348	745.9	7	751.9	746.9	1388	748.0	24	756.1	753.1
349	746.3	31	750.3	746.3	1389	752.5	28	762.3	759.3
350	746.3	28	750.4	746.4	1390	749.5	28	760.7	757.7
1371	746.4	30	750.5	746.5	1391	747.8	28	756.2	751.2
132	746.8	10	751.7	746.8	1392	747.6	28	756.1	749.1
1353	747.4	33	756.2	751.2	1393	752.5	36	765.4	760.4
					1394	751.9	43	771.0	754.1
					1395	748.2	41	777.4	772.4
					1396	747.1	34	782.8	783.9
					1397	745.2	31	782.8	787.4
					1398	749.7	47	798.9	798.9
					1399	744.8	38	803.0	784.0
					1400	748.9	28	804.9	796.6
					1401	747.4	25	804.6	797.6
					1402	744.9	44	802.7	747.7
					1403	748.7	40	797.3	792.3
					1404	746.9	25	794.3	789.3
					1405	745.9	20	784.4	779.2
					1406	744.9	15	779.2	774.2
					1407	744.9	17	741.1	756.1
					1408	747.1	35	751.7	766.7
					1409	746.9	42	751.3	787.9
					1410	746.7	49	751.1	787.9
					1411	745.5	47	753.8	783.9
					1412	745.5	37	758.9	753.9
					1413				

LAND FOR THE IMPROVEMENT OF CLIMAX UNIT N<sup>o</sup> 7

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEER'S DEPARTMENT  
SHEET 4 OF 7 SHEETS

DATE: 11-15-66

DESCRIPTION: CHANGE STRIP GRADE FOR JACKIE DRIVE

BY: [Signature]

APPROVED: [Signature]

DATE: 11-15-66

CONTRACTOR: [Signature]

INSPECTOR: [Signature]

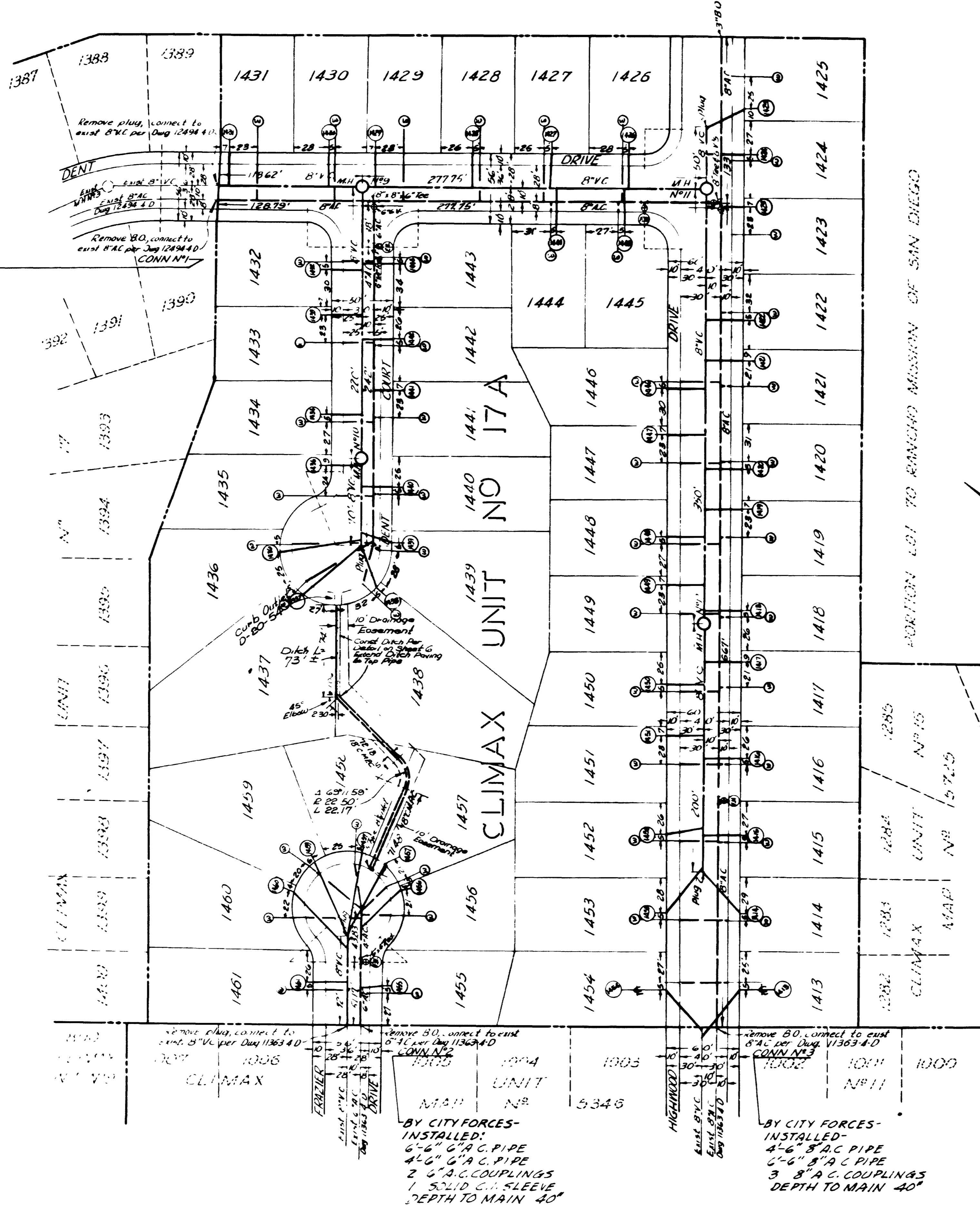
12494-4-D

Engineer of Work: *Byrd D. Phelps* JCE 1534  
BYRD D. PHELPS - MUNICIPAL ENGINEERS INC.  
434 Land Title Bldg  
San Diego, Calif 92101

**AS BUILT**

PORTION LOT TO RANCHO MISSION OF SAN DIEGO

BY CITY FORCES  
INSTALLED:  
6" 8" A.C. PIPE  
2" 2" 8" A.C. PIPE  
3" 8" A.C. COUPLINGS  
DEPTH TO PIPE 3'-0"

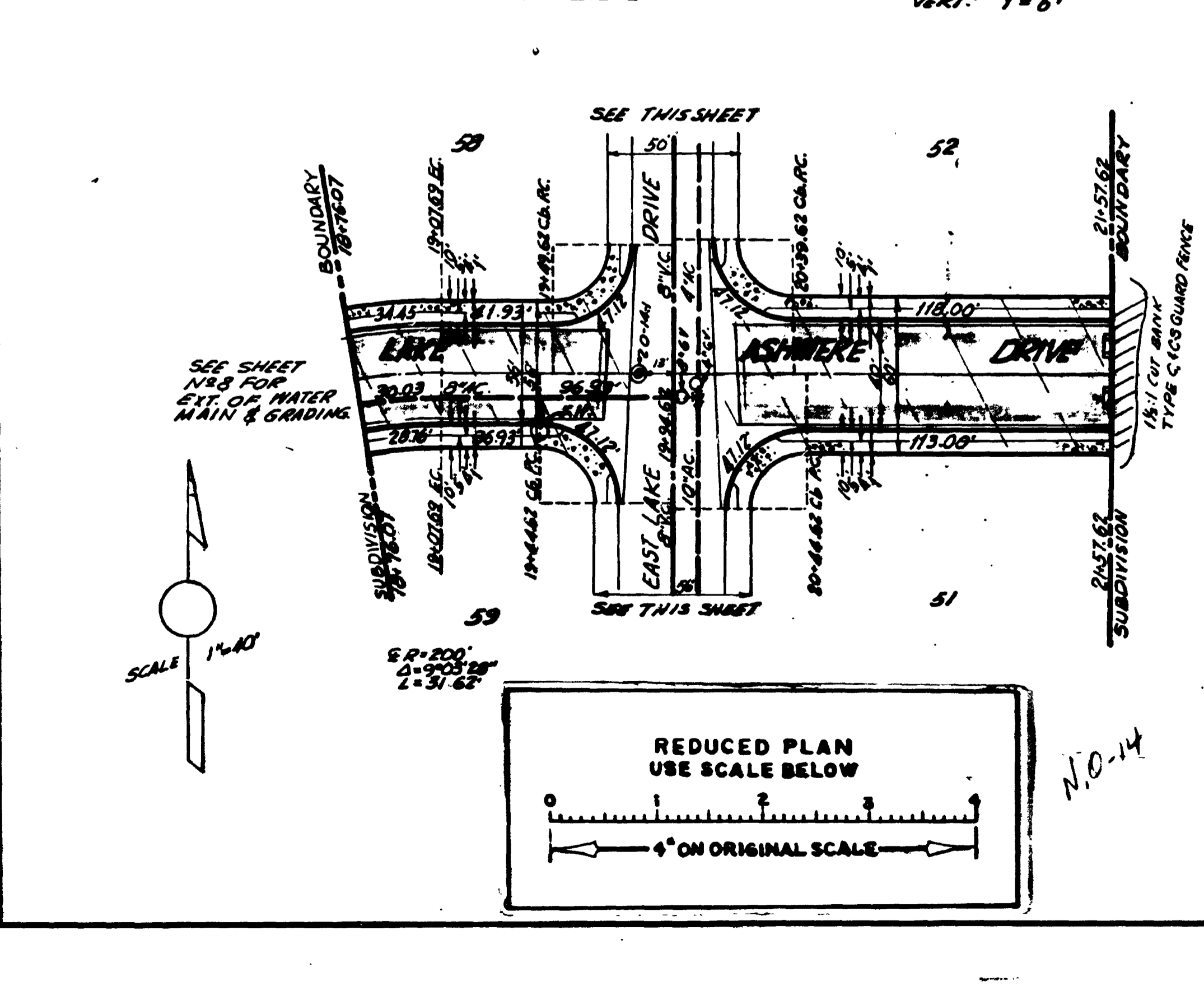
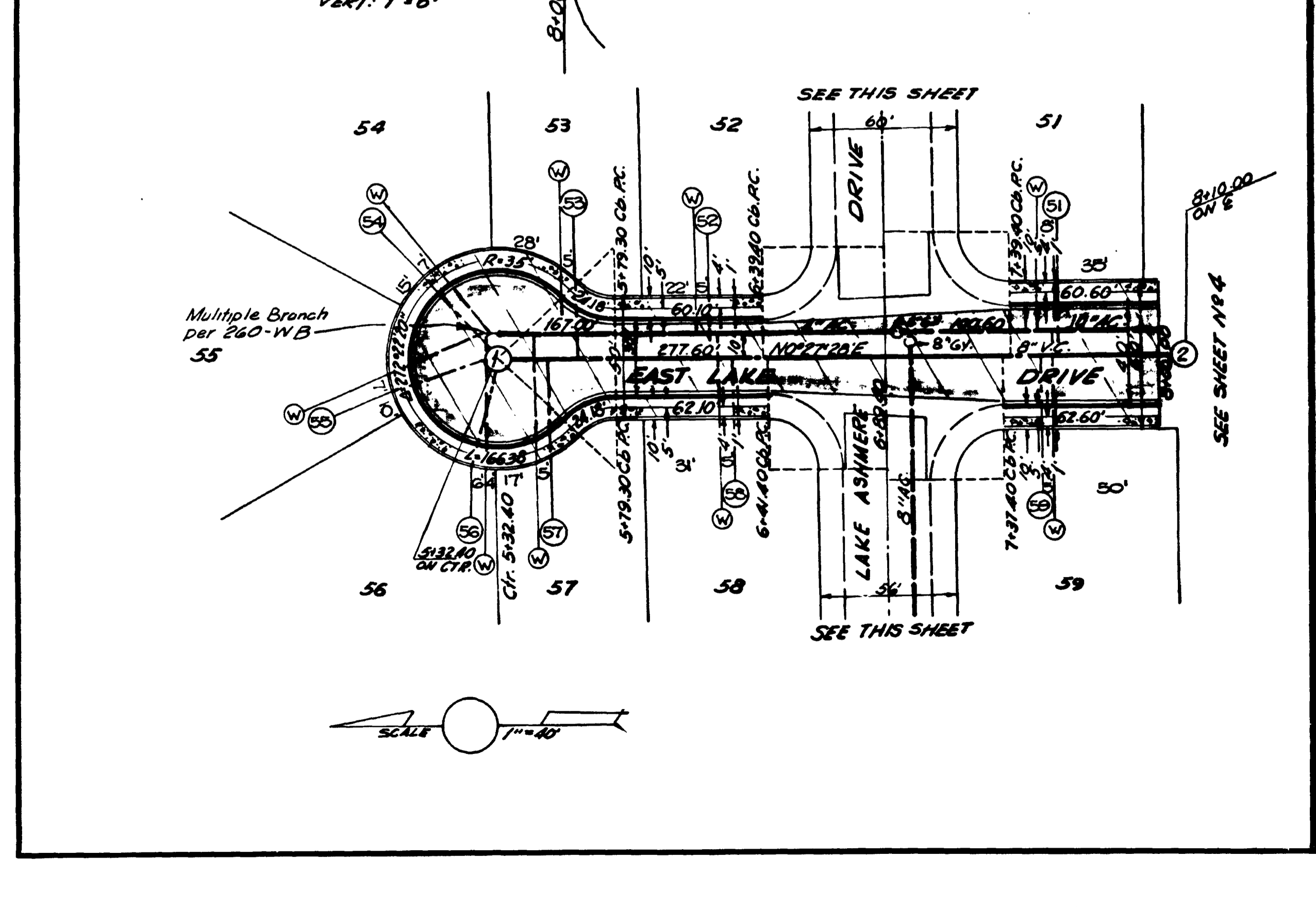
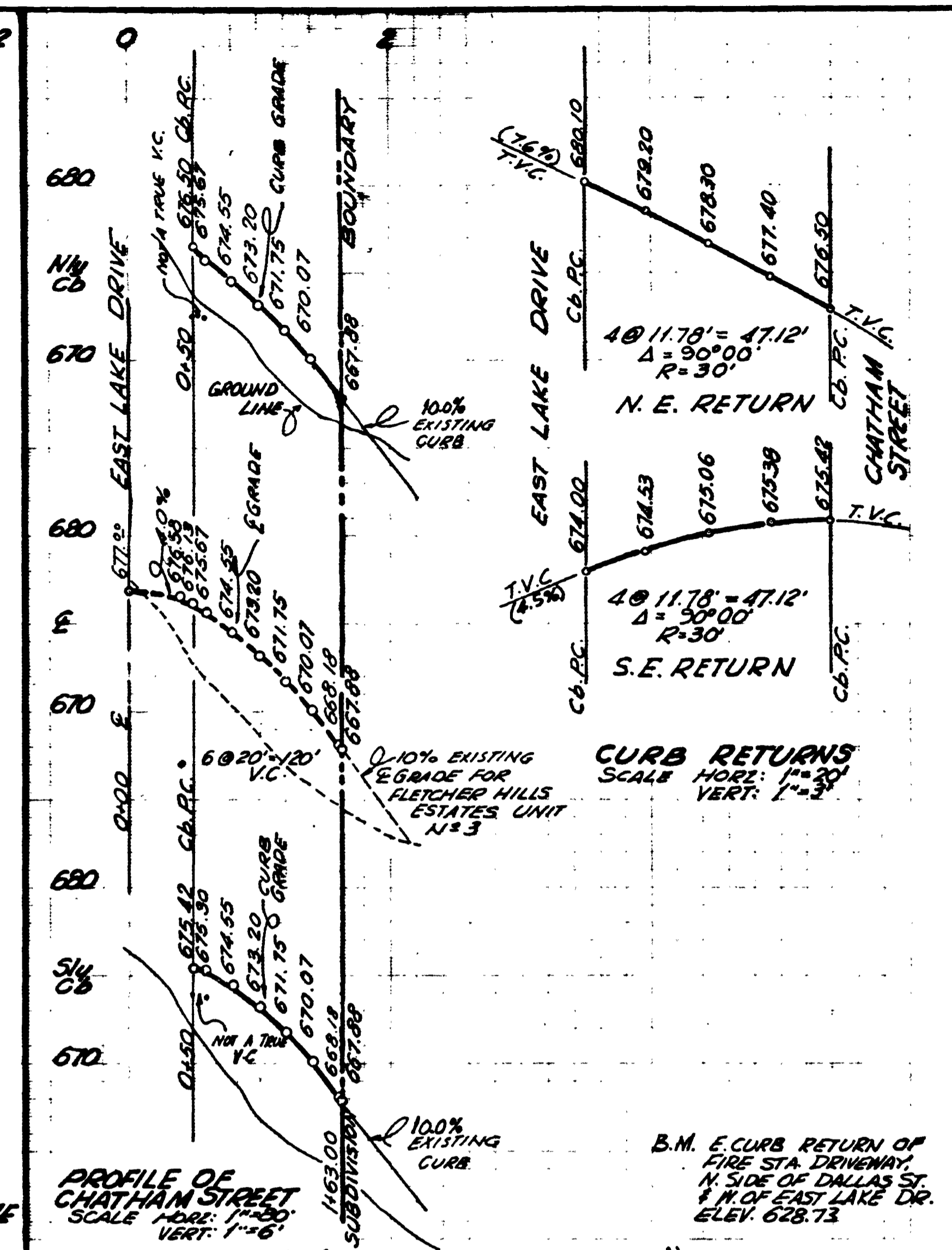
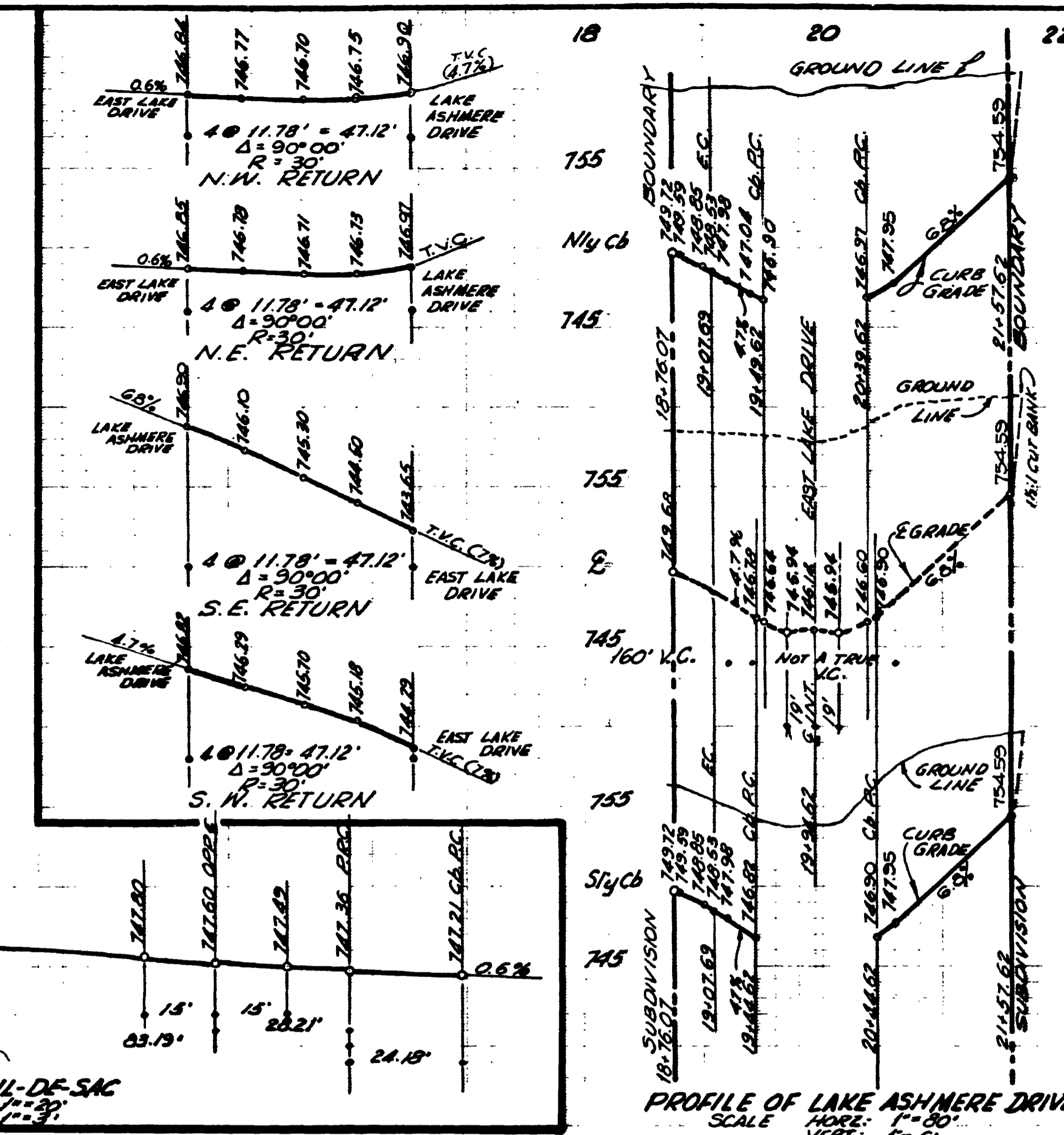
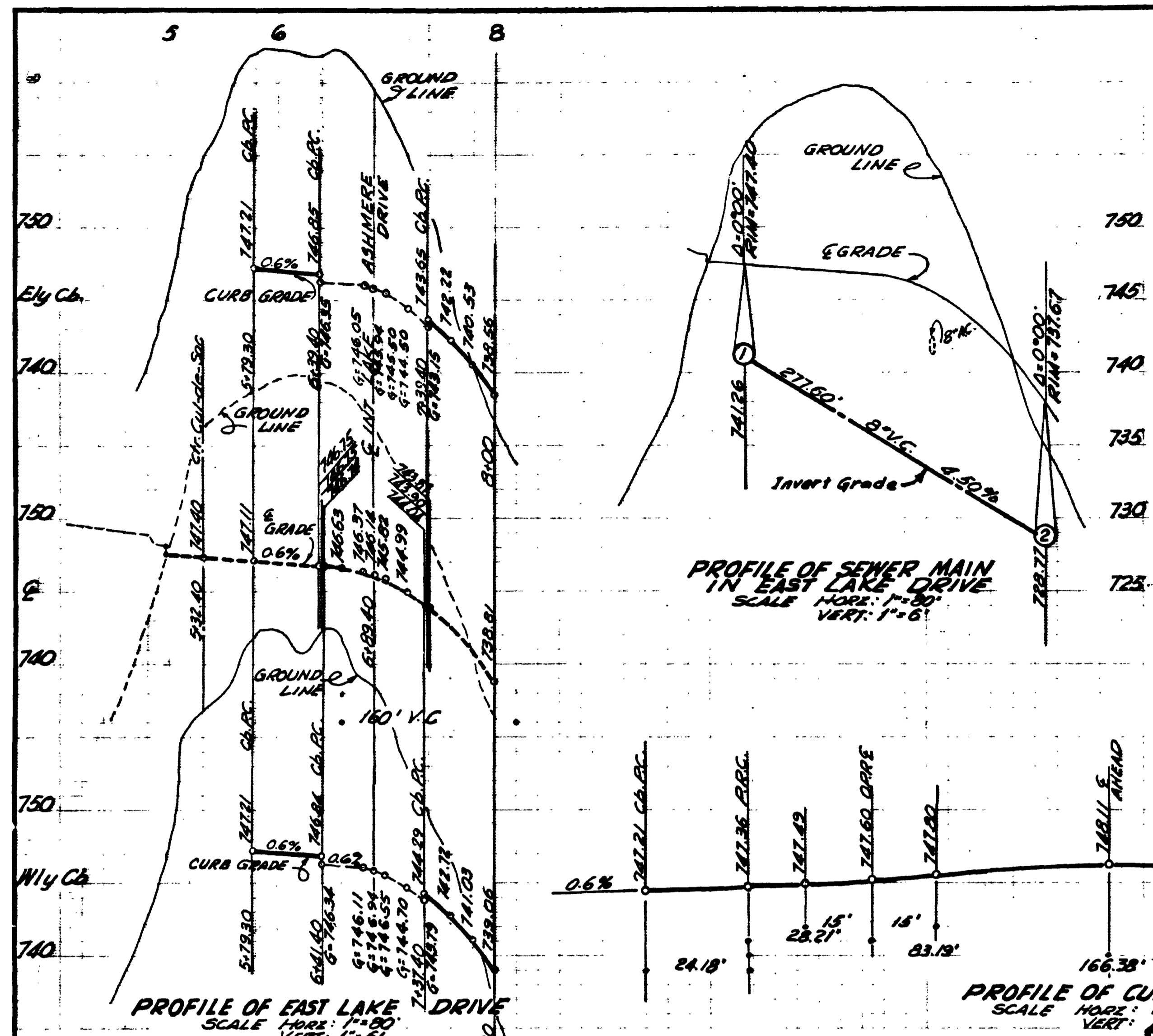


LOT #	Inv Elev. at Man.	Drop (ft)	Length (ft)	Inv Elev. at DL		Remarks
				at DL	at Curb	
1413	773.3	0.3	47	773.0	773.0	
1414	778.0		44	778.0	778.0	
1415	777.9		30	777.9	777.9	
1416	779.7			779.7	779.7	
1417	775.0			775.0	775.0	
1418	775.8			775.8	775.8	
1419	771.4			771.4	771.4	
1420	787.9			787.9	787.9	
1421	767.9			767.9	767.9	
1422	766.9			766.9	766.9	
1423	764.9			764.9	764.9	
1424	764.6			764.6	764.6	
1425	764.7			764.7	764.7	
1426	763.7			763.7	763.7	
1427	762.9			762.9	762.9	
1428	762.1			762.1	762.1	
1429	761.0			761.0	761.0	
1430	759.2			759.2	759.2	
1431	754.2			754.2	754.2	
1432	762.5			762.5	762.5	
1433	763.6			763.6	763.6	
1434	763.9			763.9	763.9	
1435	766.4			766.4	766.4	
1436	767.5			767.5	767.5	
1437	767.9			767.9	767.9	
1438	767.8			767.8	767.8	
1439	767.8			767.8	767.8	
1440	764.9			764.9	764.9	
1441	764.8			764.8	764.8	
1442	764.8			764.8	764.8	
1443	767.4			767.4	767.4	
1444	763.0			763.0	763.0	
1445	763.7			763.7	763.7	
1446	768.6			768.6	768.6	
1447	769.0			769.0	769.0	
1448	771.9			771.9	771.9	
1449	771.1			771.1	771.1	
1450	769.4			769.4	769.4	
1451	772.3			772.3	772.3	
1452	777.8			777.8	777.8	
1453	775.3			775.3	775.3	
1454	764.6			764.6	764.6	
1455	764.6			764.6	764.6	
1456	764.6			764.6	764.6	
1457	764.6			764.6	764.6	
1458	764.6			764.6	764.6	
1459	764.6			764.6	764.6	
1460	764.6			764.6	764.6	
1461	764.4			764.4	764.4	

S. VAIL CONTRACT			
Plans for the Improvement of CLIMAX UNIT NO. 17A			
CITY OF SAN DIEGO, CALIFORNIA		NO. 117289	
ENGINEERING DEPARTMENT		SHEET 4 OF 6 SHEETS	
APPROVED	3-1-67	DATE	
DESCRIPTION: AS BUILT			
DATE COMPLETED: 3-10-67			
JOB NO. 5250			

Engineer of Work: Byrl D. Phelps RCE 1534  
BYRL D. PHELPS-MUNICIPAL ENGINEERS, INC.  
434 Land Title Bldg.  
San Diego, Calif. 92101  
Job No. 5250

AS BUILT



**COUNTRY CASUAL HOMES CHATHAM STREET EAST LAKE DRIVE UNIT No 1**

C.W. Clark

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 3 OF 10 SHEETS		W.O. NO. 76176	
PLAN REVISION		DATE		BY	
AS BUILT		5/21/40		S.F. Johnson	
APPROVALS FOR		DATE		BY	
WATER DEPT.				CITY ENGINEER	
SEWERAGE DEPT.				OFFICE ENGINEER	
DRAINAGE DEPT.				SUPERVISOR	
HIGHWAY DEPT.				CHECKED	
ELECTRICAL DEPT.				WINTON	
STRUCTURAL DEPT.				CHECKED	
TRAFFIC DEPT.				SAWYER	
DESIGNED				7417 D	

CONSTRUCTION RECORD

DATE STARTED	DATE COMPLETED
JULY 20, 1939	JULY 20, 1940
DATE REVISION	DATE REVISION

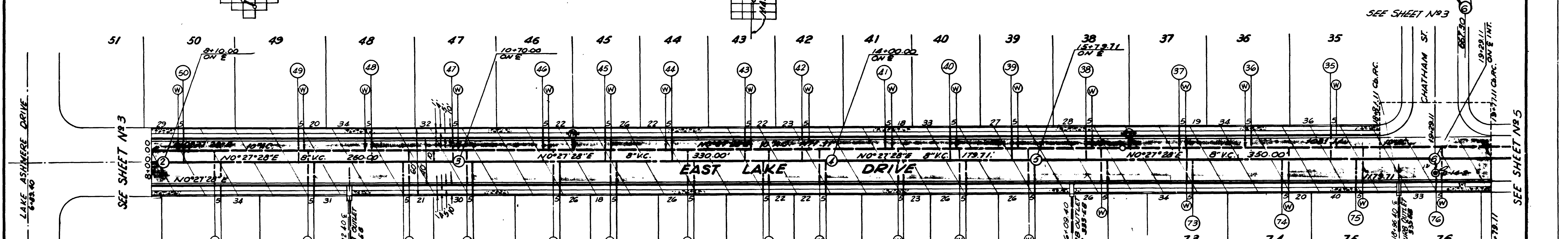
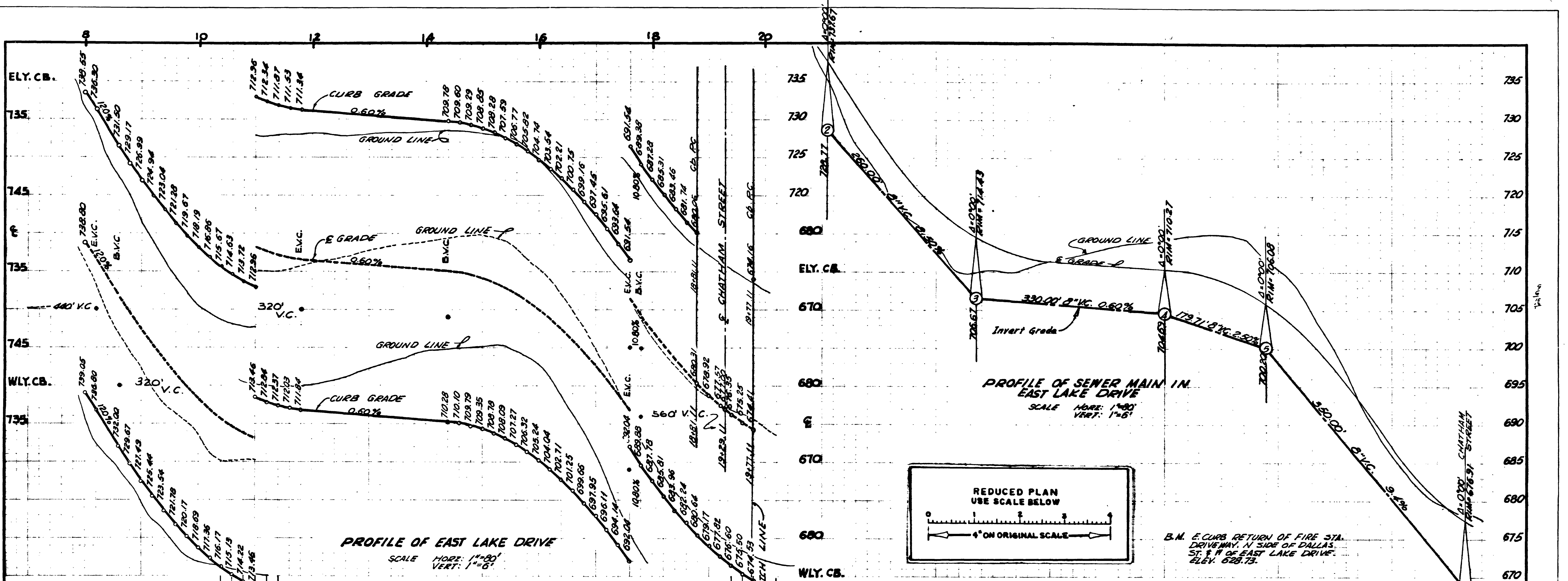
CONTR. MCGRATH  
INSPECTION: BASSALL

FIELD BOOK 18 & 15-N60

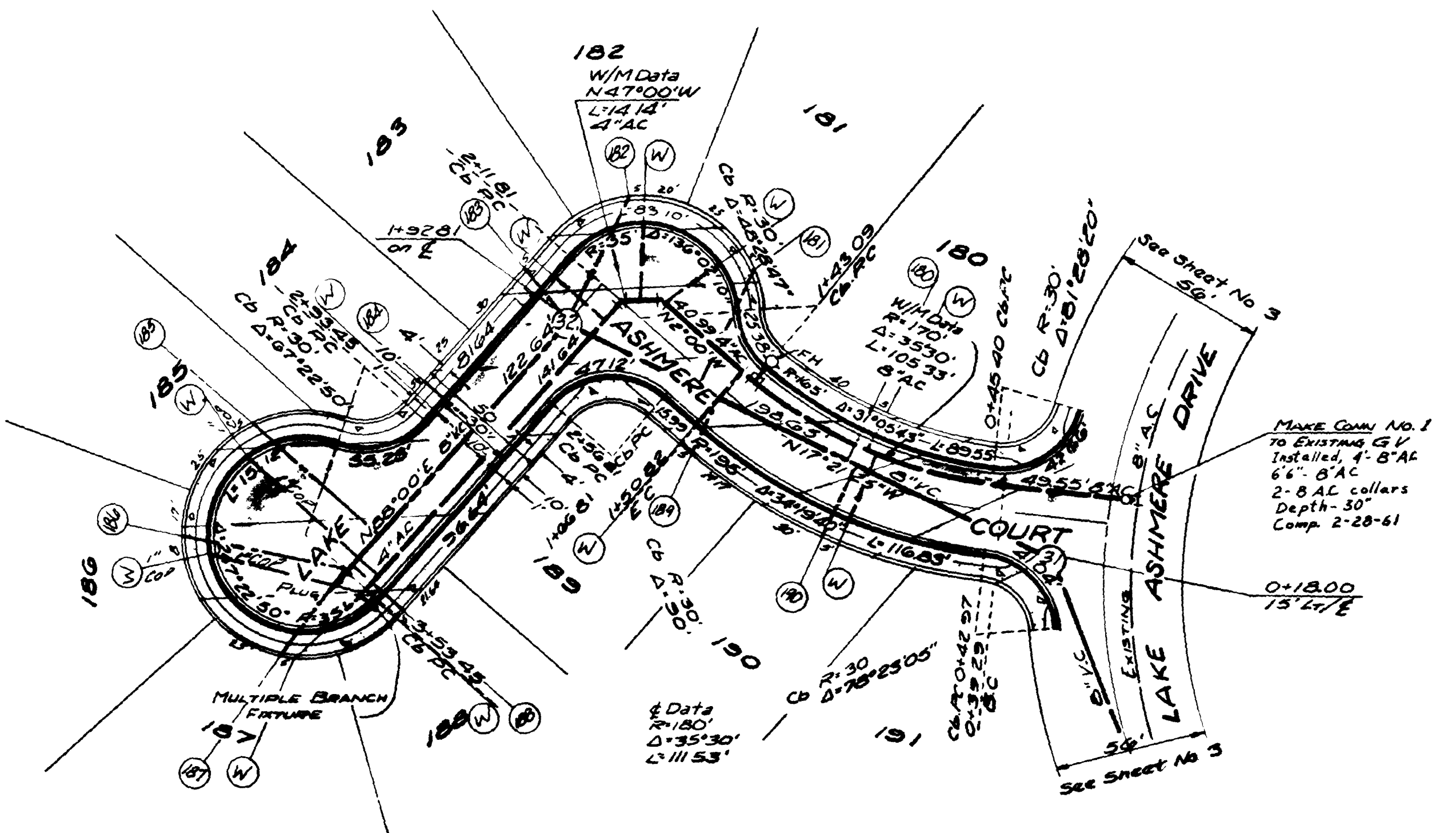
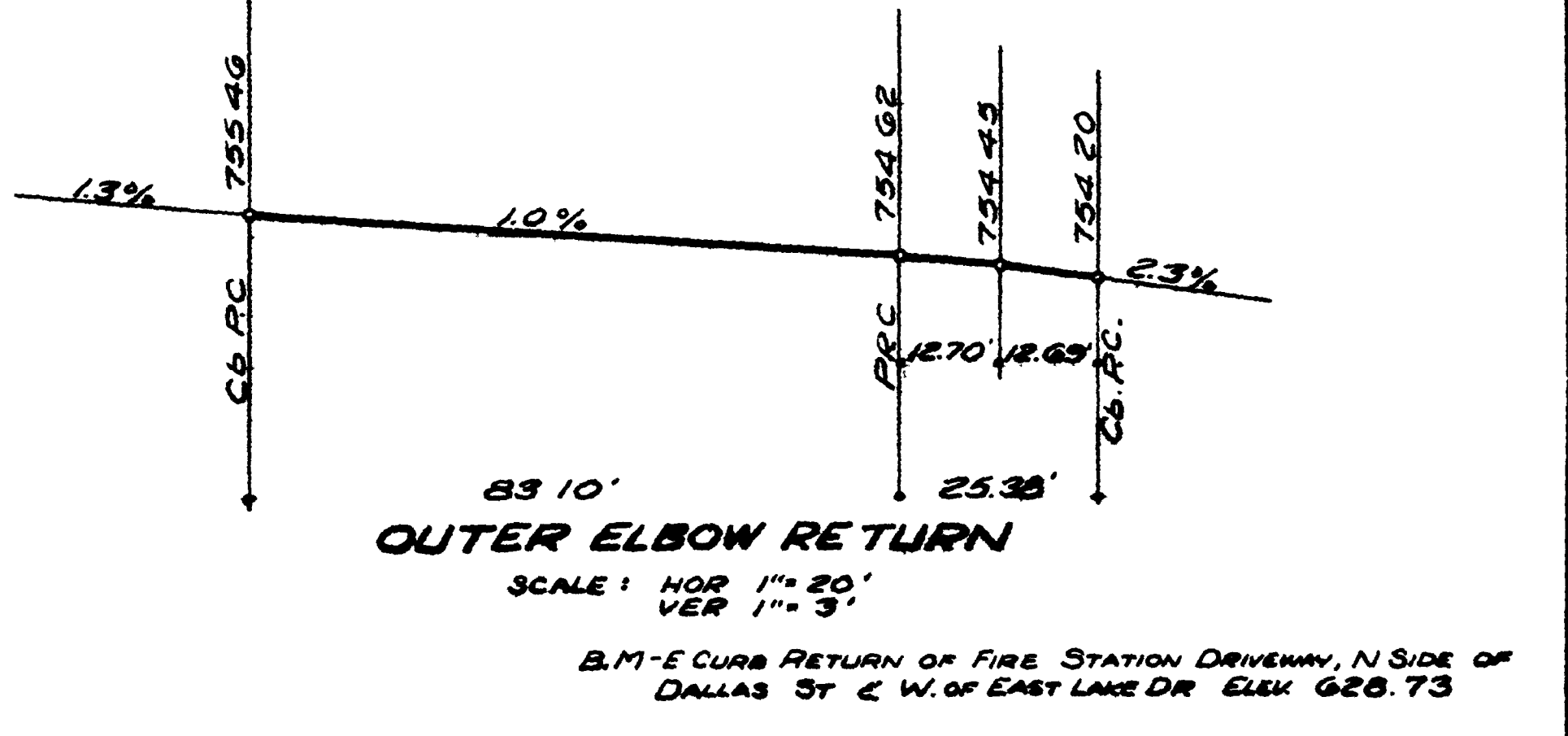
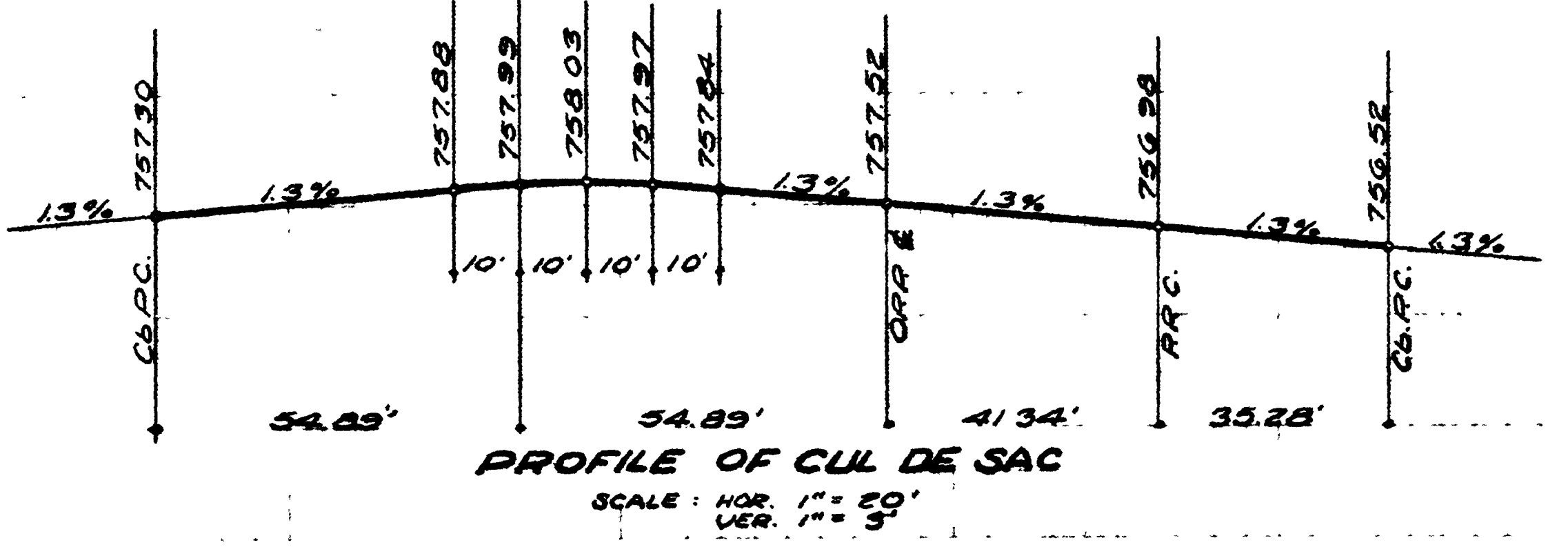
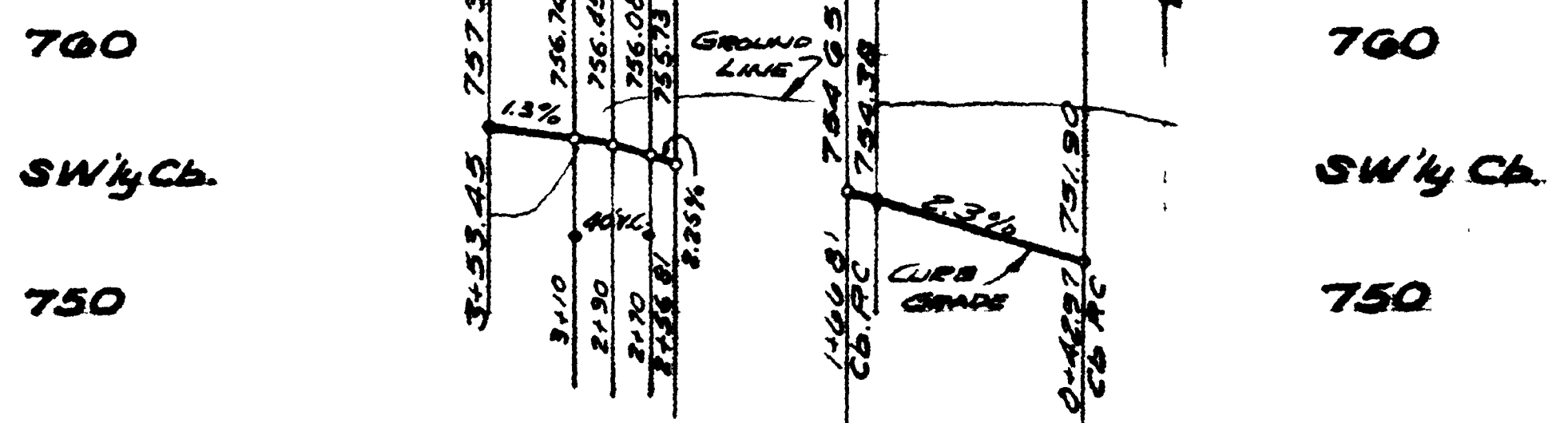
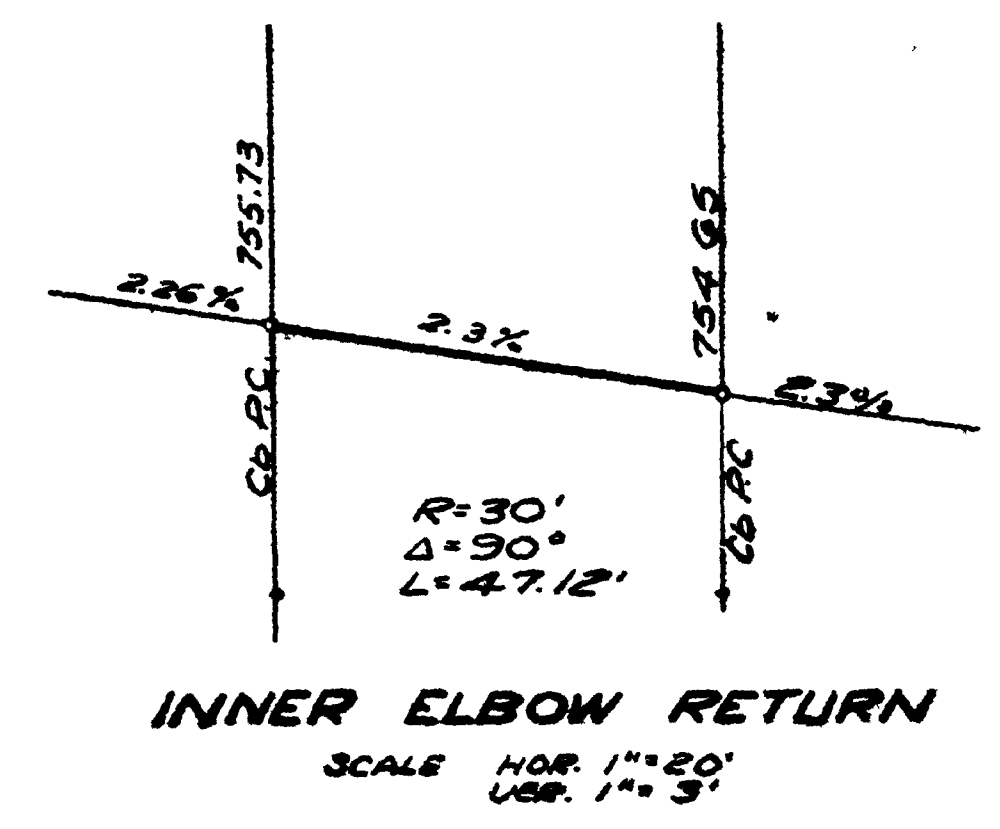
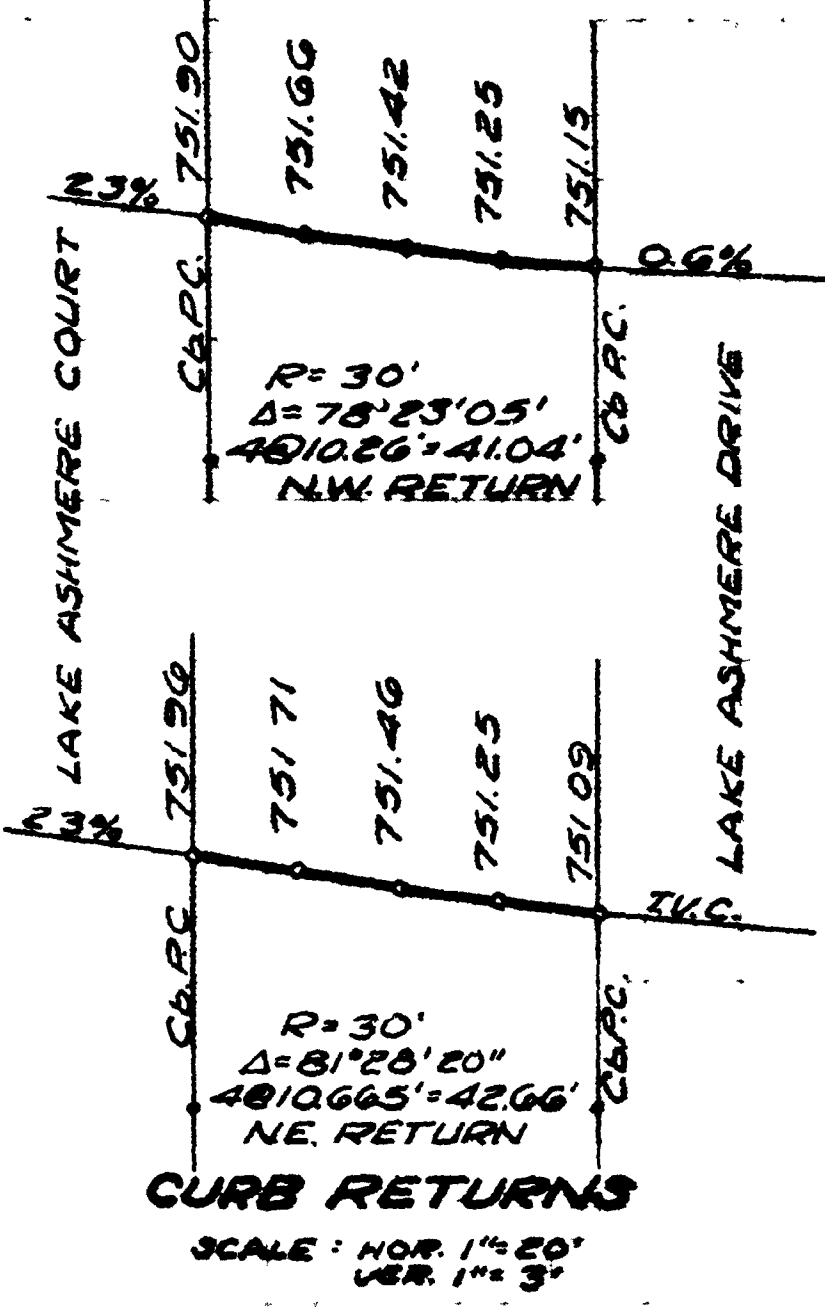
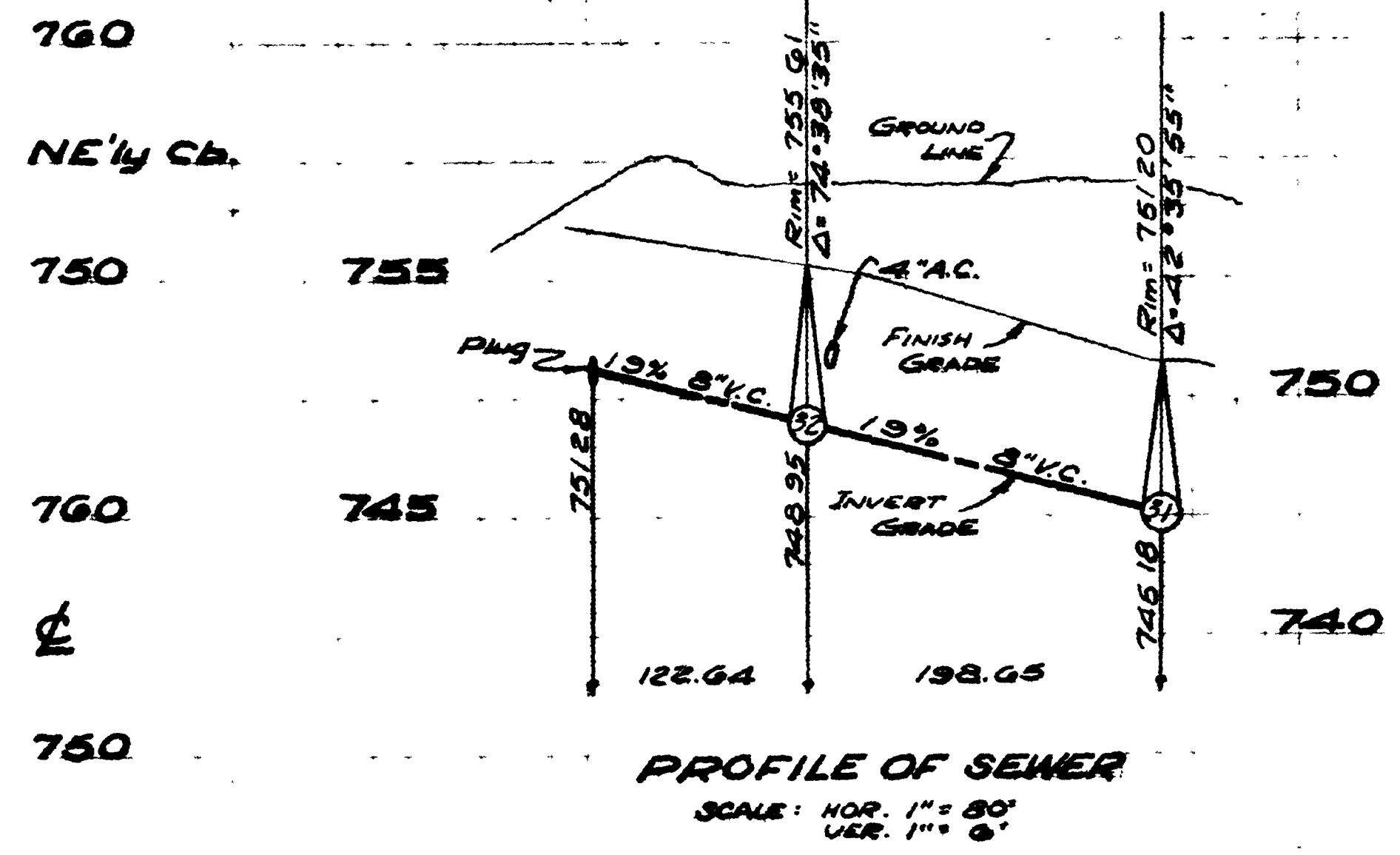
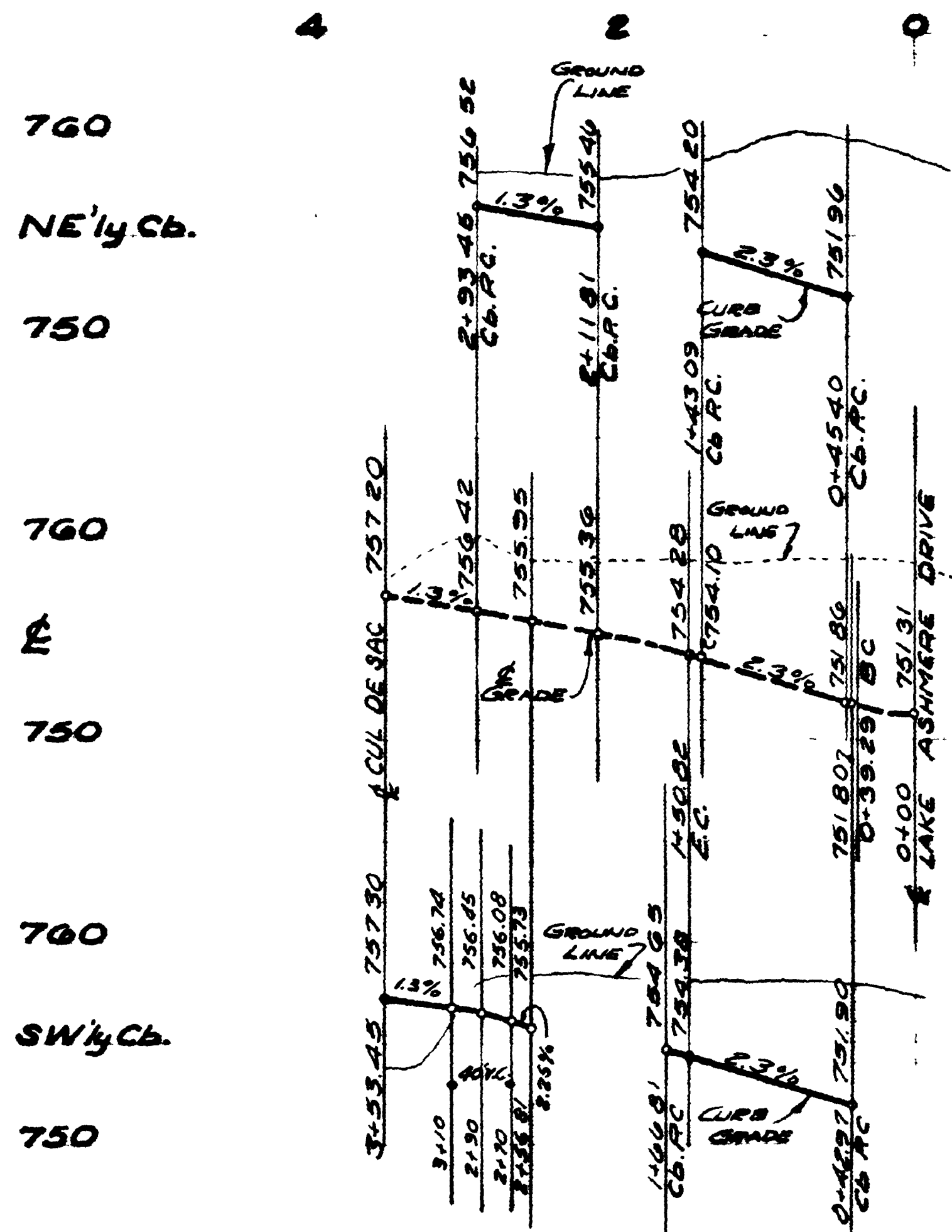
REDUCED PLAN USE SCALE BELOW

4" ON ORIGINAL SCALE

NO. 14

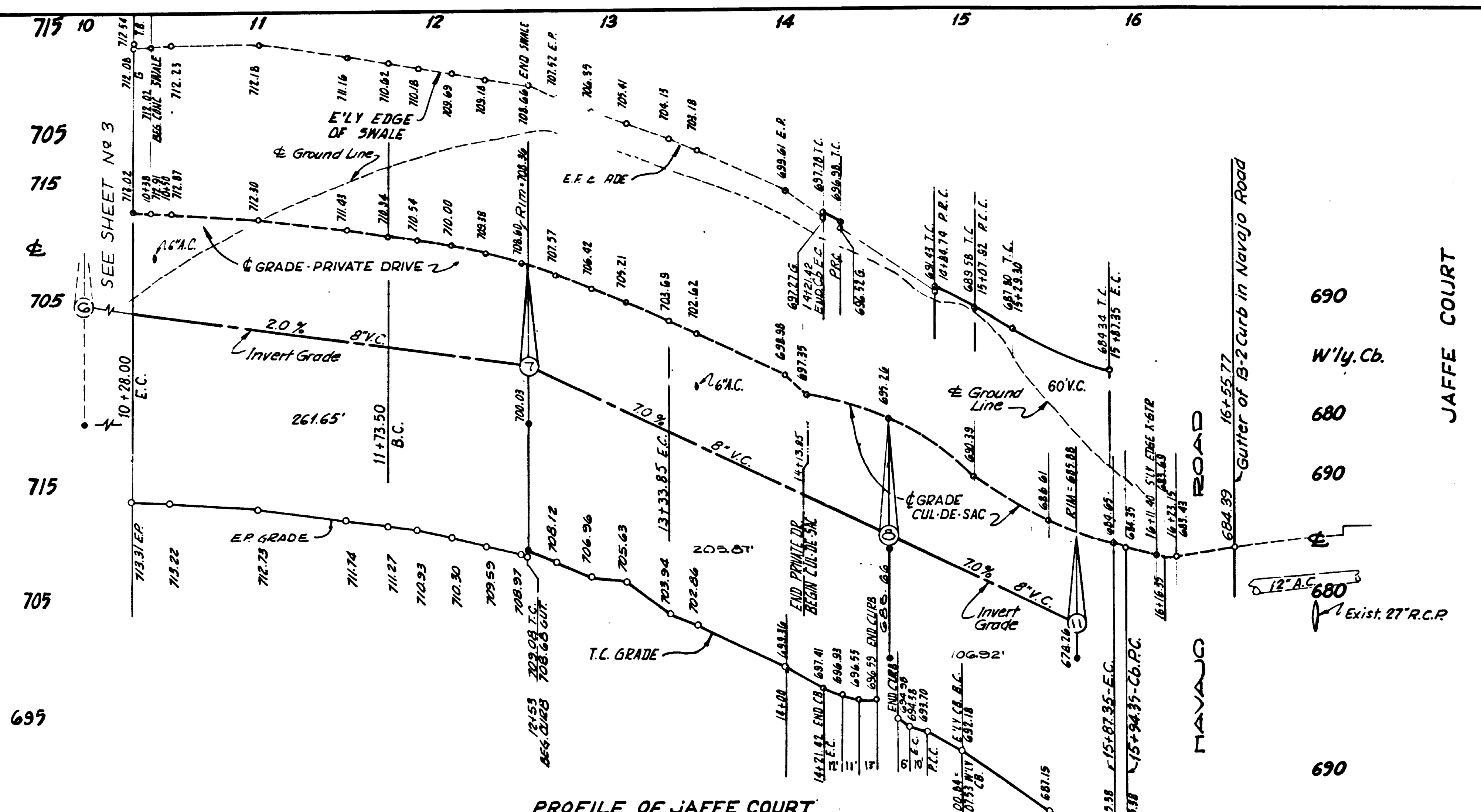


COUNTRY CASUAL HOMES UNIT NO. 1 EAST LAKE DRIVE				CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 4 OF 10 SHEETS		W.D. NO. 76176	
PLAN REVISION		BY DATE APPROVAL		DATE		APPROVALS FOR		CITY ENGINEER AND OFFICE ENGINEER	
15 BUILT		S.G. 10/16/60		E.F. [Signature]		11/10/59		[Signature]	
CONSTRUCTION RECORD		DATE COMPLETED		ELECTRICAL		SEWERAGE		SUPERVISOR	
JULY 20, 1959		JULY 20, 1960		STRUCTURAL		HIGHWAY		NINTON	
CONTR. McGRATH		BURSELL		TRAFFIC		GRABBS		SAWYER	
FIELD BOOK 14 E15-N 60		INSP. EDWARDS		CONTROL		[Signature]		DESIGNED	
								7418 D	

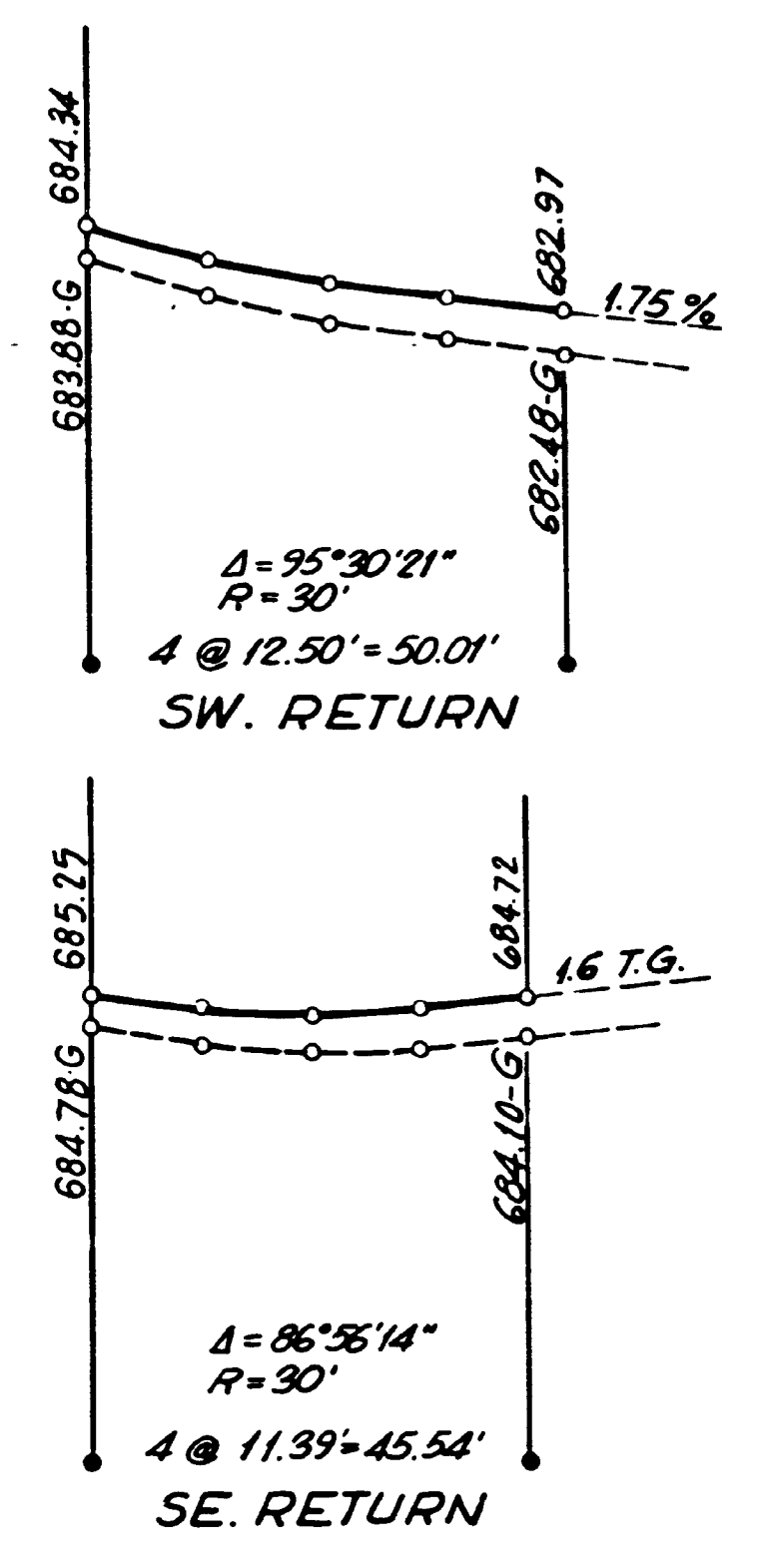


<b>COUNTRY CASUAL</b>		<b>LAKE ASHMERE COURT</b>	
<b>HOMES UNIT NO 2</b>			
CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 4 OF 11 SHEETS	WO NO. 76396
PLAN REVISION	APPROVAL	DATE	
CHANGE	BY	DATE	
As Built	1/21/62		
APPROVALS FOR		DATE	
WATER DEPT.	SEWERAGE		
PLANNING DEPT.	DRAINAGE		
ELECTRICAL	HIGHWAY		
STRUCTURAL	GRADES		
TRAFFIC	CONTROL		
CONSTRUCTION RECORD			
DATE STARTED	DATE COMPLETED		
12-16-60	1-22-62		
CONTR. C.W. McGrath	INSPECTION H. Mills		
FIELD BOOK			

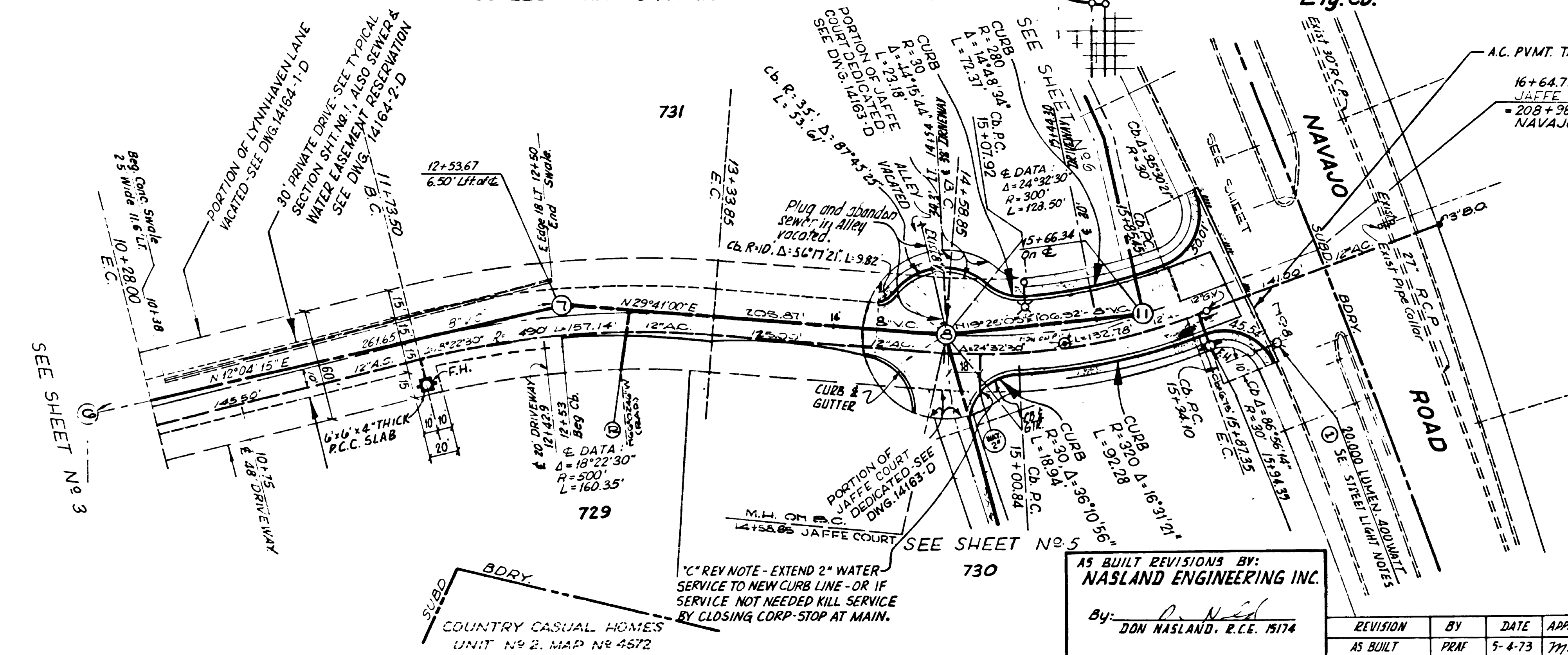
MICROFILMED  
#289 1963  
A-4677



PROFILE OF JAFFE COURT  
 SCALES: HOR. 1"=40'; VER. 1"=6'

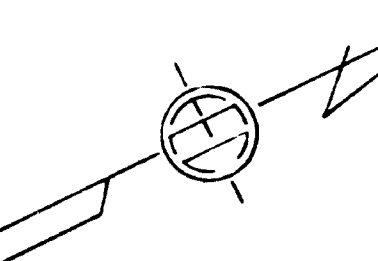


CURB RETURNS  
 SCALES: HOR. 1"=20'  
 VER. 1"=3'



NOTE.

THIS DRAWING INCLUDES...  
 CHANGE DRAWING...  
 C CHANGE = DELETED CURBS...  
 SAG; ADDED CUL-DE-SAC...  
 GRADES OF CUL-DE-SAC...  
 LYNNHAVEN LANE TO BE VACATED...  
 VACATED PORTION OF LYNNHAVEN LANE...  
 SEE TYPICAL SECTION - SHT. NO 11 AND SEWER & WATER EASEMENT RESERVATION



SCALE: 1"=40'

AS BUILT DRAWING

INSPECTOR: LAVERNE BIRDSELL  
 DATE: 4-9-73

PRIVATE CONTRACT  
 ENGINEER OF DESIGN

FREELAND • EVENSON & CHRISTENSEN

Bill K. Dramb R.C.E. 8102

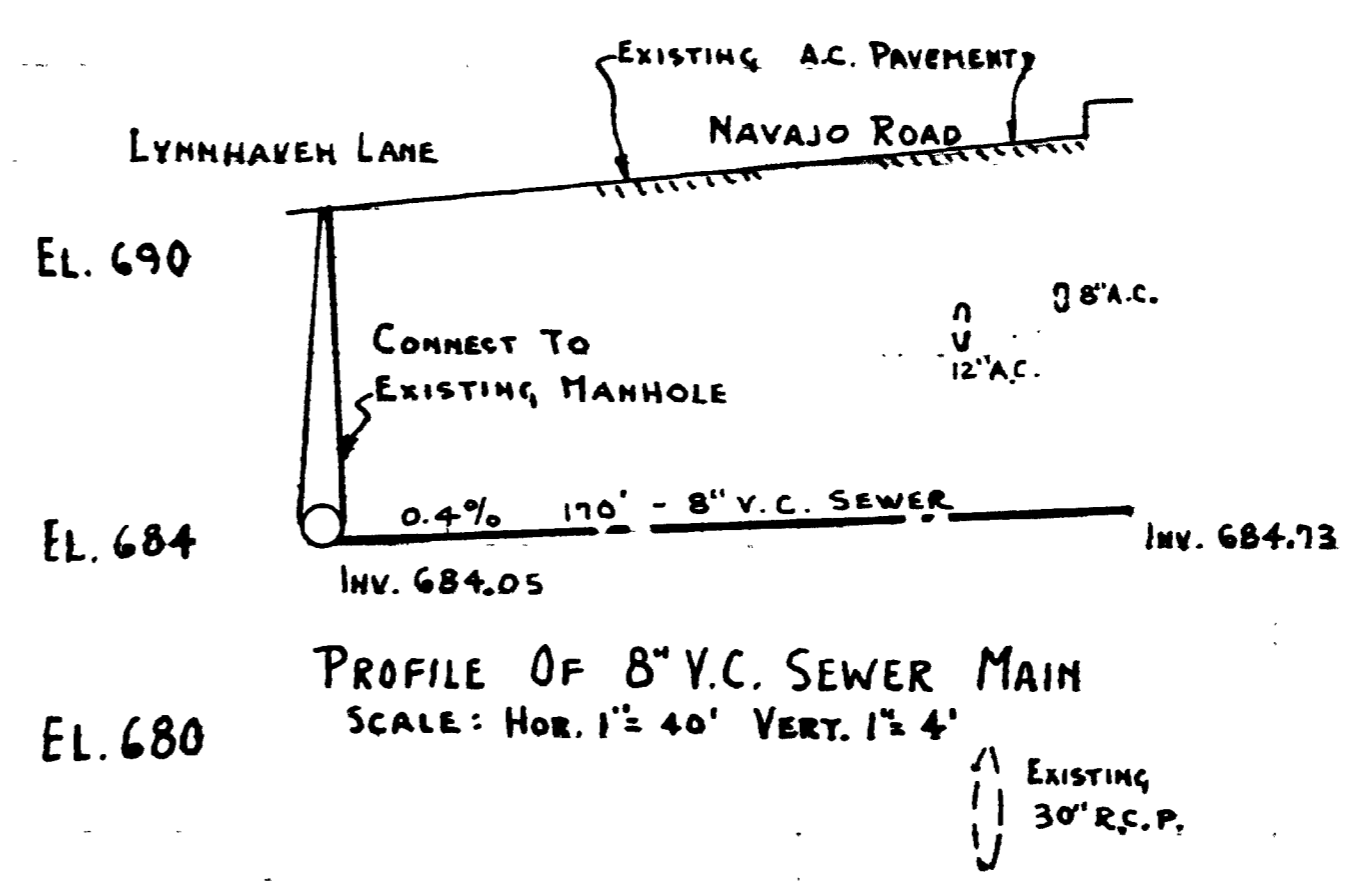
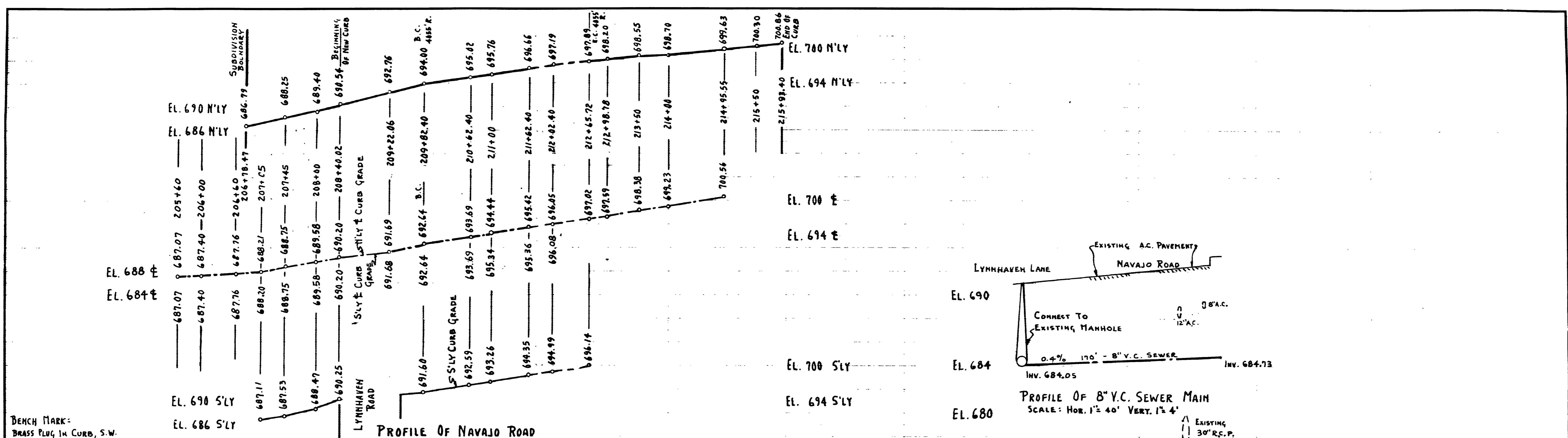
SAN CARLOS JAFFE COURT & SEWER AND WATER  
 UNIT No 10 WITHIN PORTION OF LYNNHAVEN LANE  
 VACATED

CITY OF SAN DIEGO ENGINEERING DEPARTMENT			SHEET 4 OF 13 SHEETS		W.O. NO. 76687
PLAN REVISION					
CHANGE	BY	DATE	APPROVAL	APPROVALS FOR	
1. 15' DRAINAGE ALLEY	J.F.	1/16/63	[Signature]	CITY ENGINEER	DATE
2. 15' DRAINAGE ALLEY	J.F.	2/23/64	[Signature]	ASST. CITY ENGINEER AND OFFICE ENGINEER	
3. 15' ROAD UNDER	J.F.	1/19/70	[Signature]	PLANNING DEPT.	BEVERAGE
4. 15' ROAD UNDER	J.F.	1/19/70	[Signature]	CONSTRUCTION RECORDS	DRAINAGE
5. 15' ROAD UNDER	J.F.	1/19/70	[Signature]	ELECTRICAL	HIGHWAY
6. 15' ROAD UNDER	J.F.	1/19/70	[Signature]	STRUCTURAL	GRADES
7. 15' ROAD UNDER	J.F.	1/19/70	[Signature]	TRAFFIC	CONTRACT
DATE STARTED	1/16/60	DATE COMPLETED	4-6-73	DESIGNED	
CONTR. PIEDMONT	INSPE. BIRDSELL	FIELD BOOK	BARULLO	DRAWN	
REVISION	BY	DATE	APPROVAL	DESIGNED	
AS BUILT	PRNF	5-4-73	[Signature]	11100-4 D	

AS BUILT REVISIONS BY:  
 NASLAND ENGINEERING INC.  
 By: DON NASLAND, R.C.E. 1974

MICROFILMED

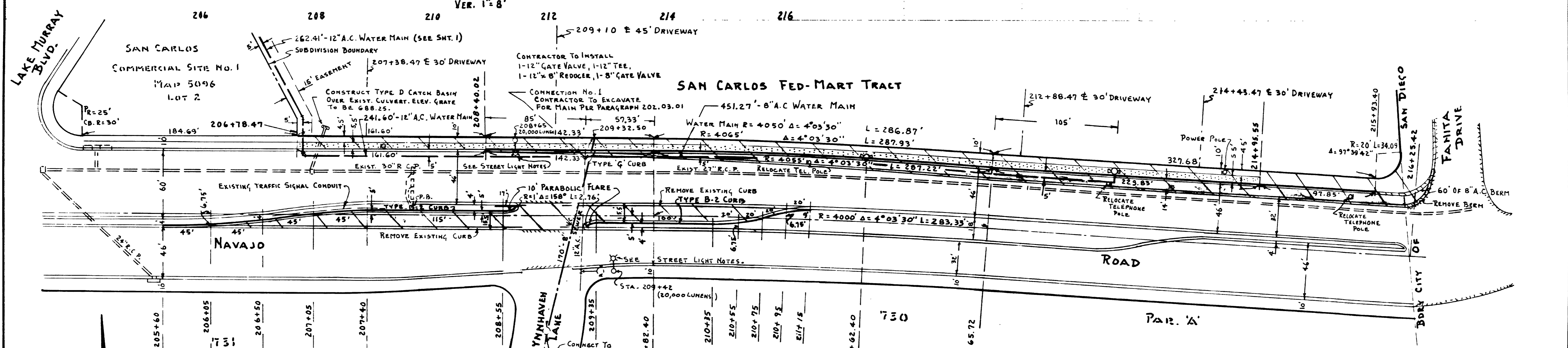
MICROFILMED  
**AS BUILT** A-5170  
 REF: 4-671



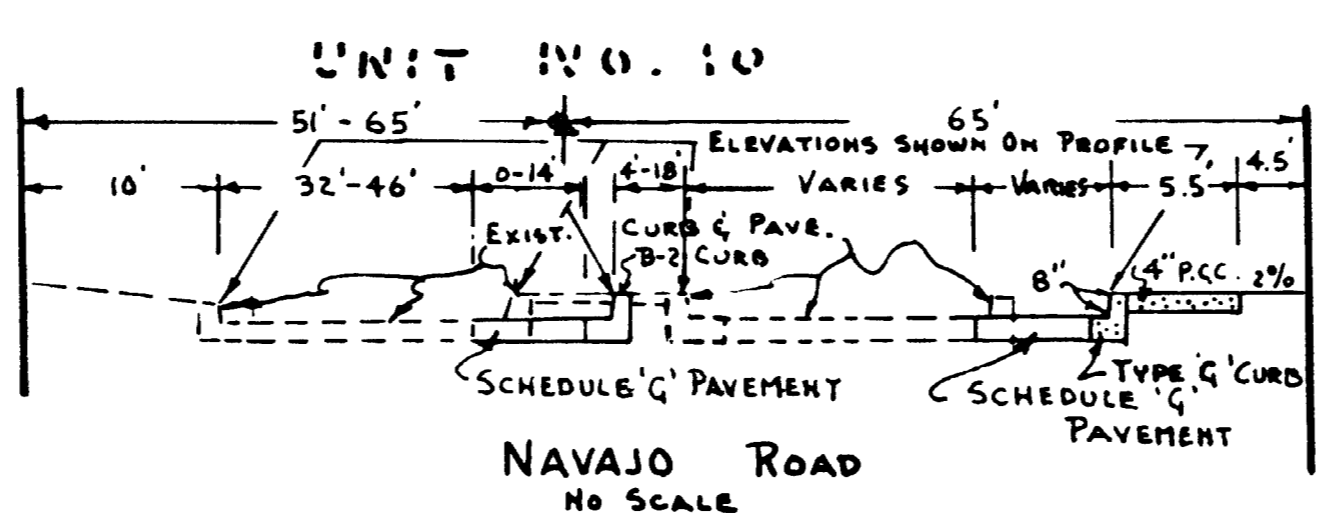
BENCH MARK:  
BRASS PLUG IN CURB, S.W.  
COR. LAKE MURRAY BLVD. &  
SAN CARLOS DR. EL. 674.785 (MEAN SEA LEVEL)

PROFILE OF NAVAJA ROAD

SCALE: HOR. 1"=80'  
VER. 1"=8'



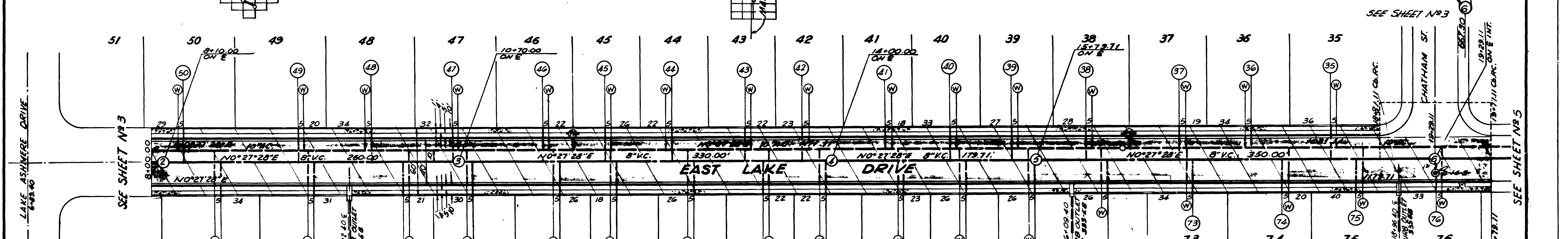
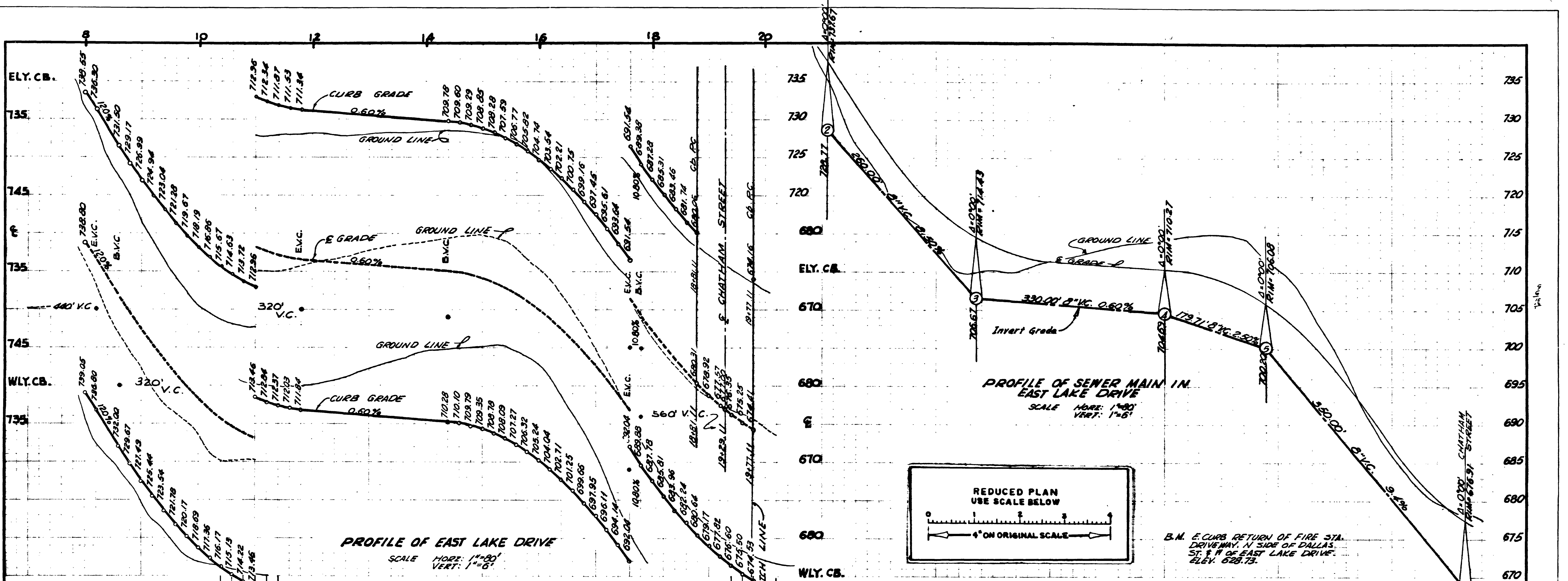
SAN CARLOS  
MAP 5294



ENGINEER OF DESIGN  
V.T. WIGLESWORTH R.C.E. 11340  
V.J. WIGLESWORTH

PLAN FOR THE IMPROVEMENT OF NAVAJA ROAD SAN CARLOS FED MART TRACT.				SHEET 2 OF 3 SHEETS		W.O. TM 48-4 NO. 78001	
CITY OF SAN DIEGO ENGINEERING DEPARTMENT				APPROVALS		DESIGNED	
CHANGE	BY	DATE	APPROVAL	DATE	APPROVAL	DATE	APPROVAL
A	PLANNING	5-20-68	[Signature]	5-6-68	[Signature]		
B	ADD CURB	5-21-68	[Signature]				
CONSTRUCTION RECORD				ELECTRICAL		HIGHWAY	
DATE STARTED				STRUCTURAL		GRADES	
CONTR. HSP				TRAFFIC		CONTRACT NO.	
FIELD BOOK				L.C. 232-1765		13174-2-D	

SCALE: 1"=40'



**COUNTRY CASUAL HOMES UNIT NO. 1 EAST LAKE DRIVE**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT SHEET 4 OF 10 SHEETS W.D. NO. 76176

PLAN REVISION	DATE	APPROVAL	DATE
15 BUILT	5.6.1964	<i>[Signature]</i>	7/10/59

CONSTRUCTION RECORD

DATE	DATE COMPLETED	ELECTRICAL	HIGHWAY
JULY 20, 1959	JULY 20, 1960	WILKINSON	CHECKED

CONTR. McGRATH SUPERVISOR BURSALL INSPECTION REAGANIS

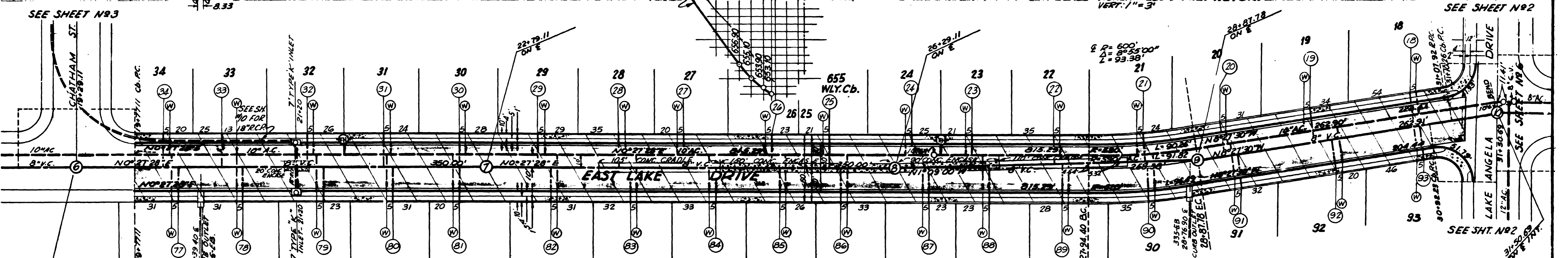
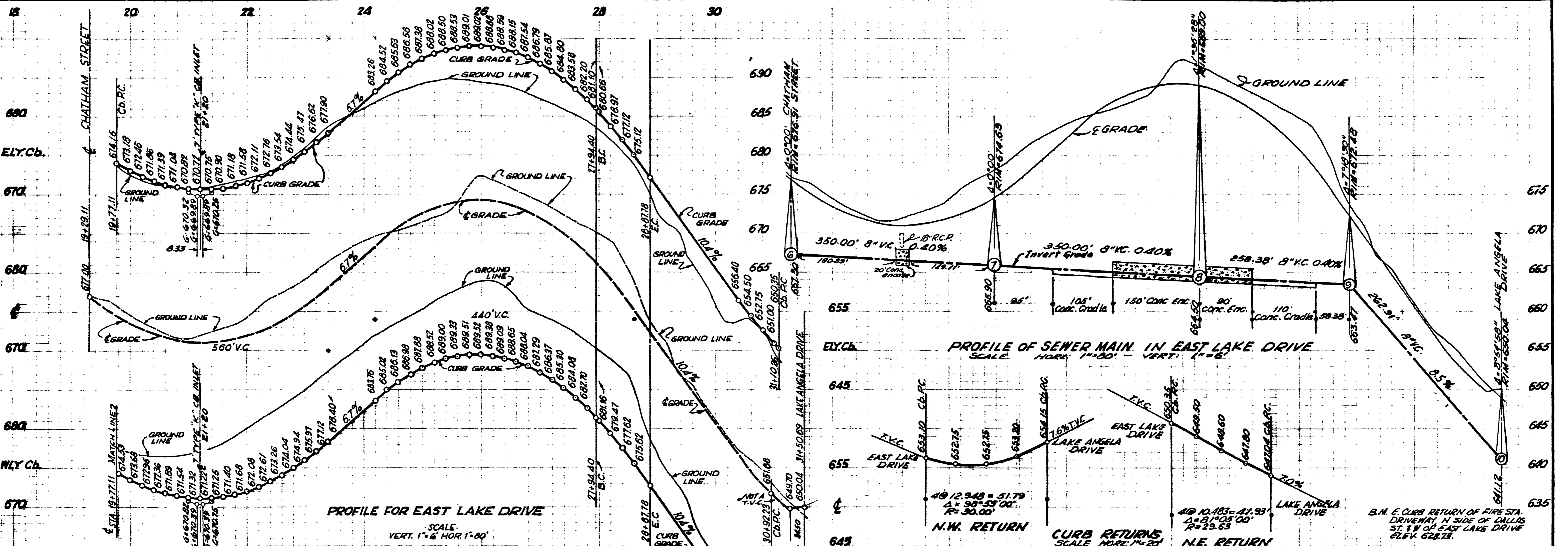
FIELD BOOK 14 E 15-N 60

APPROVALS FOR:

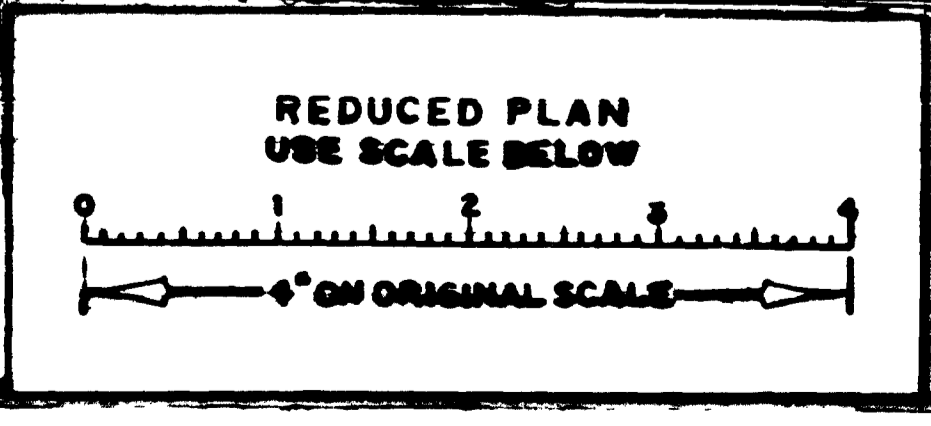
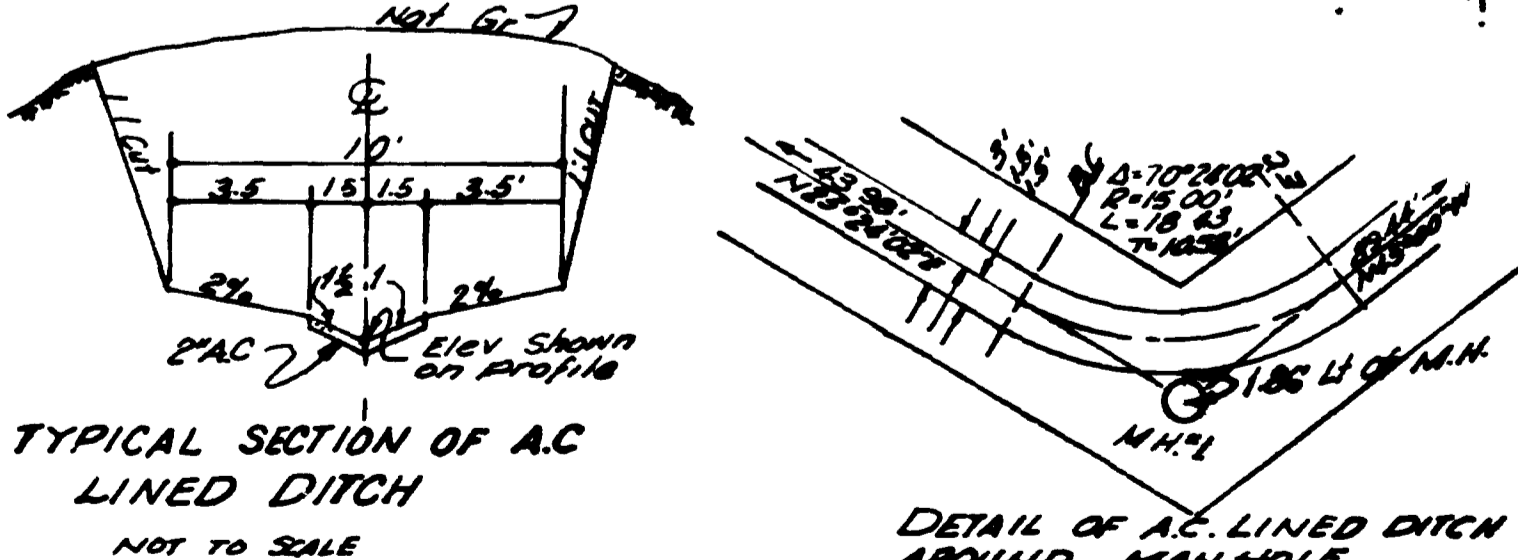
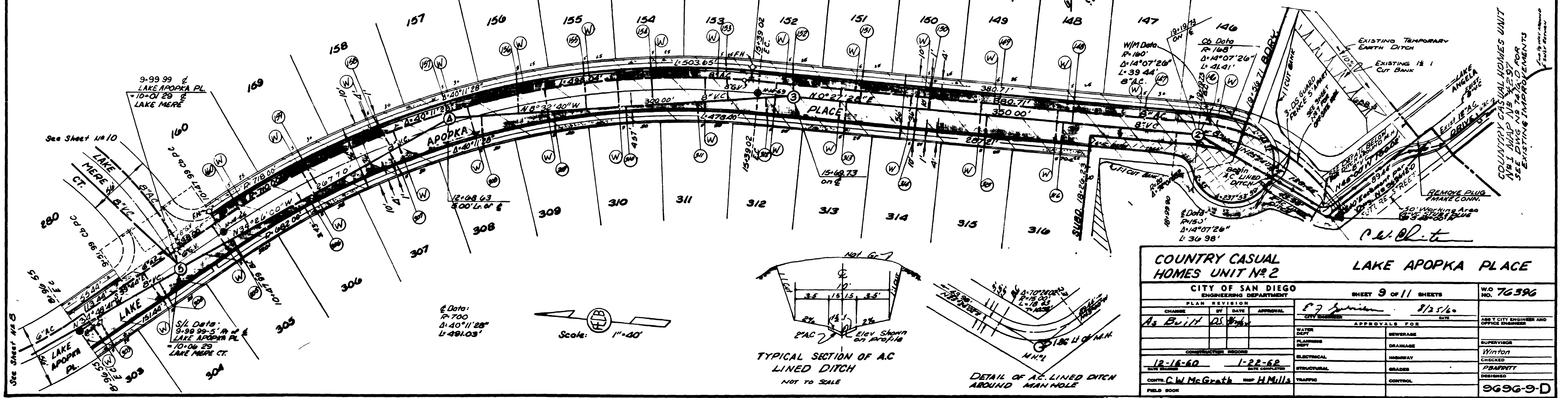
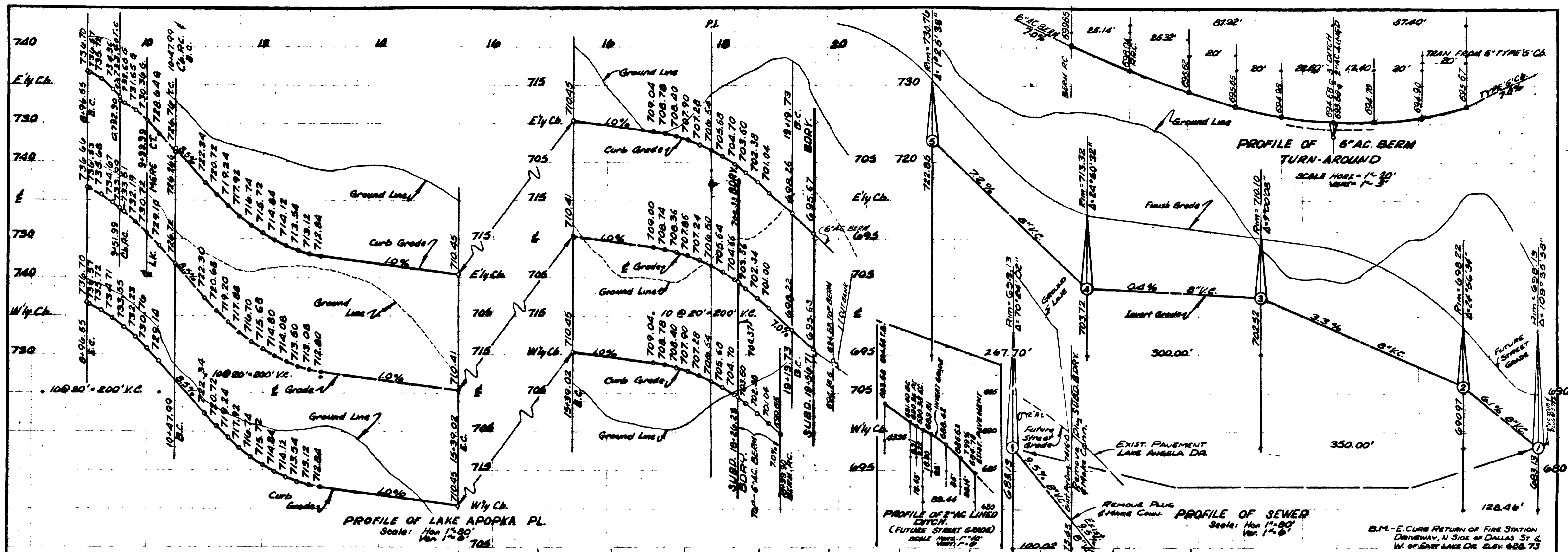
WATER DEPT.	SEWERAGE
PLANNING DEPT.	DRAINAGE
ELECTRICAL	HIGHWAY
STRUCTURAL	GRABBS
TRAFFIC	CONTROL

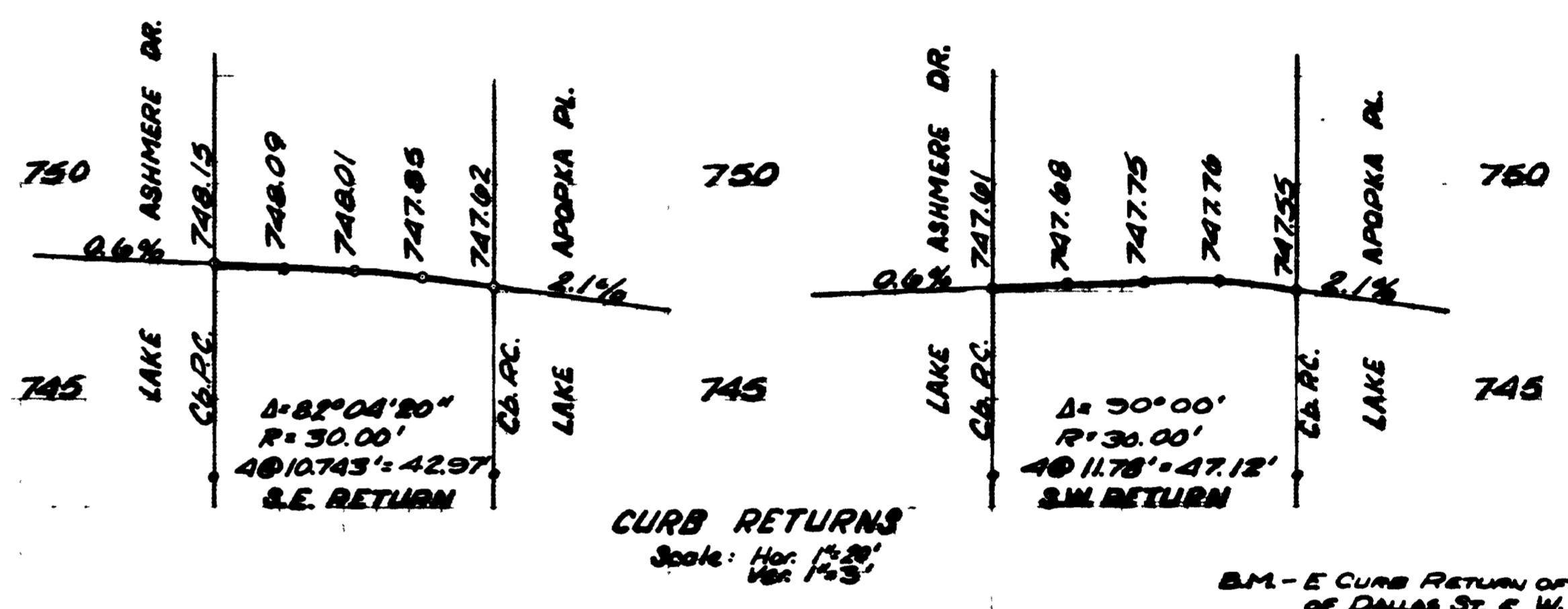
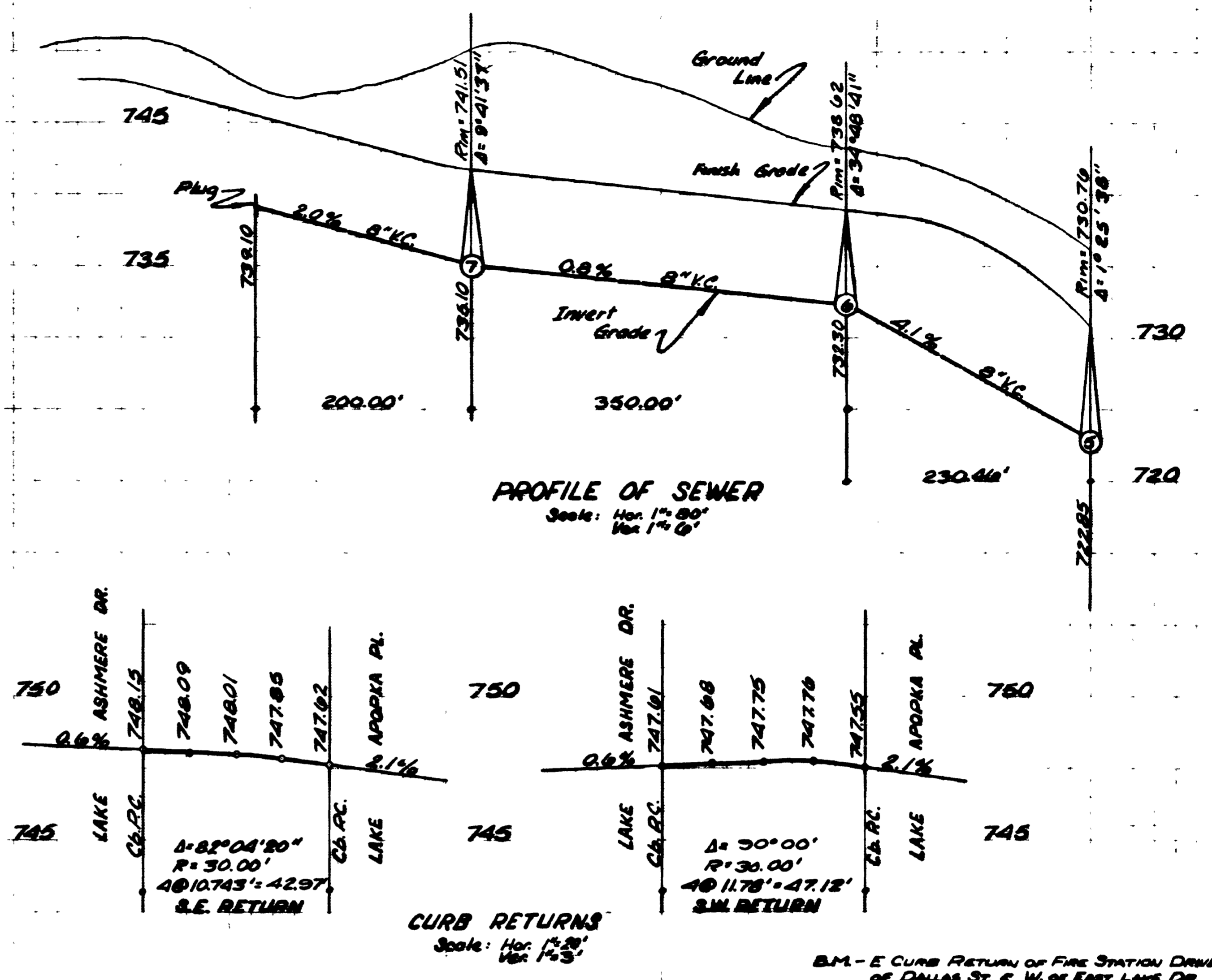
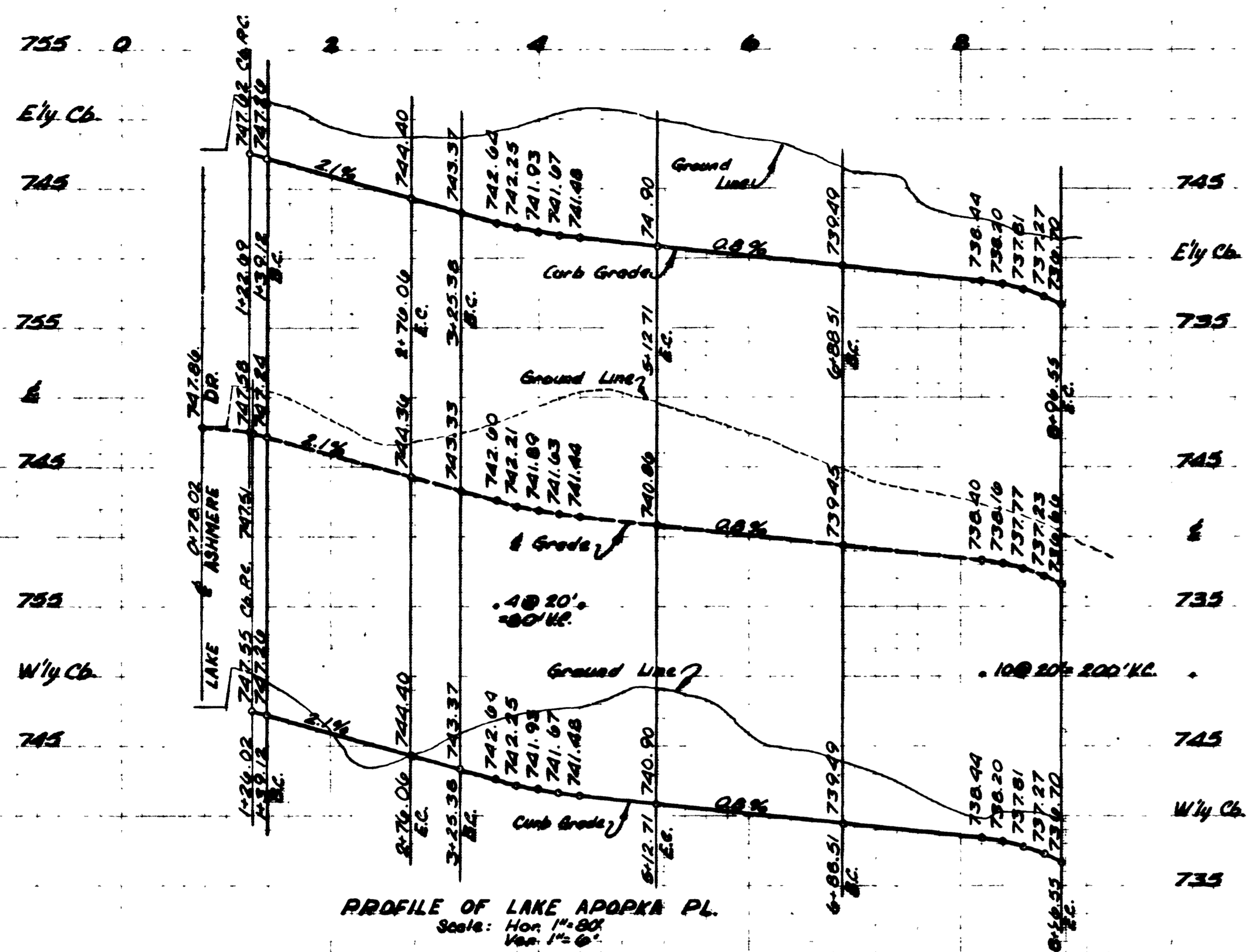
7418 D



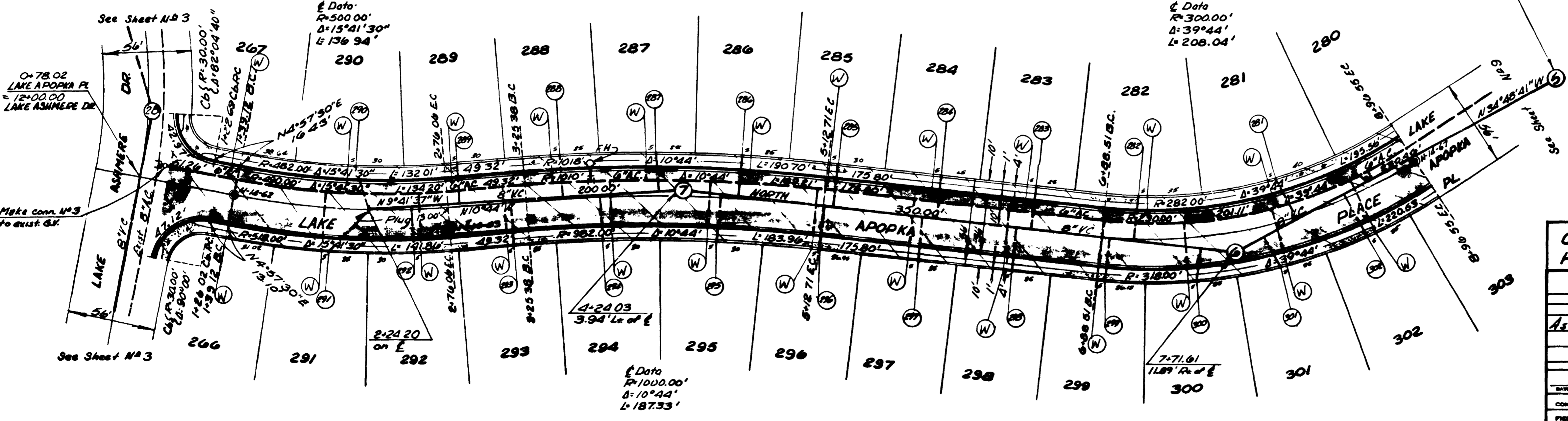
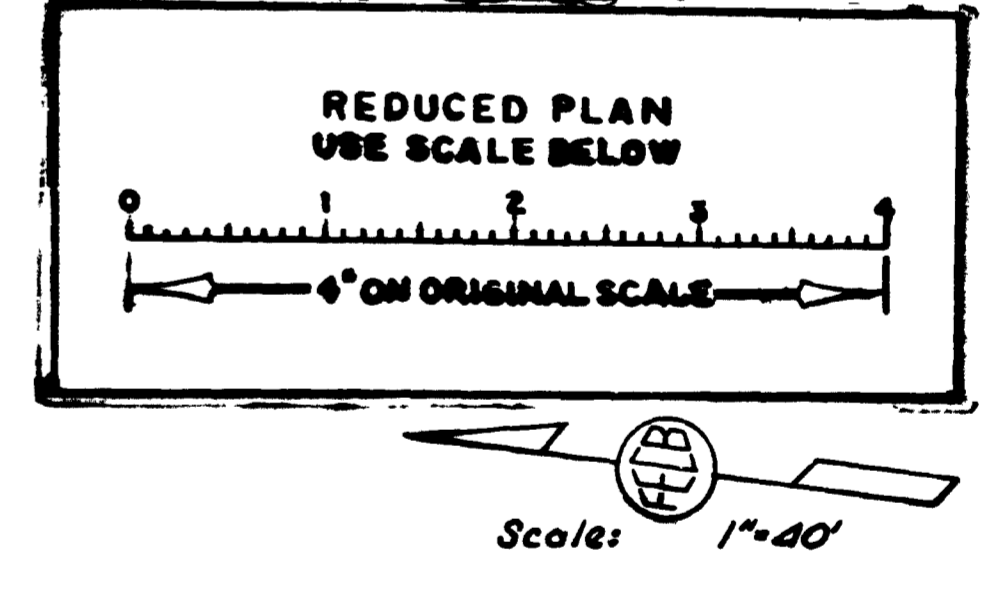


COUNTRY CASUAL HOMES UNIT N81		EAST LAKE DRIVE	
CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 5 OF 10 SHEETS	
PLAN REVISION		W.D. NO. 76176	
CHANGE	BY DATE APPROVAL	APPROVALS FOR	
AS BUILT	5/2 8/80	CITY ENGINEER	DATE
CONSTRUCTION RECORD		APPROVALS FOR	
DATE STARTED	DATE COMPLETED	WATER DEPT.	SEWERAGE
JULY 20, 1953	JULY 20, 1960	PLANNING DEPT.	DRAINAGE
CONTR. MCGRATH	INSPECTION BAULIS	ELECTRICAL	HIGHWAY
FIELD BOOK 14 & 15-N.E.O.		STRUCTURAL	GRADES
		TRAFFIC	CONTROL
			DESIGNED
			7819 D





B.M. - E CURB RETURN OF FIRE STATION DRIVEWAY, N. SIDE OF DALLAS ST. & W. OF EAST LAKE DR. ELEV. 628.73



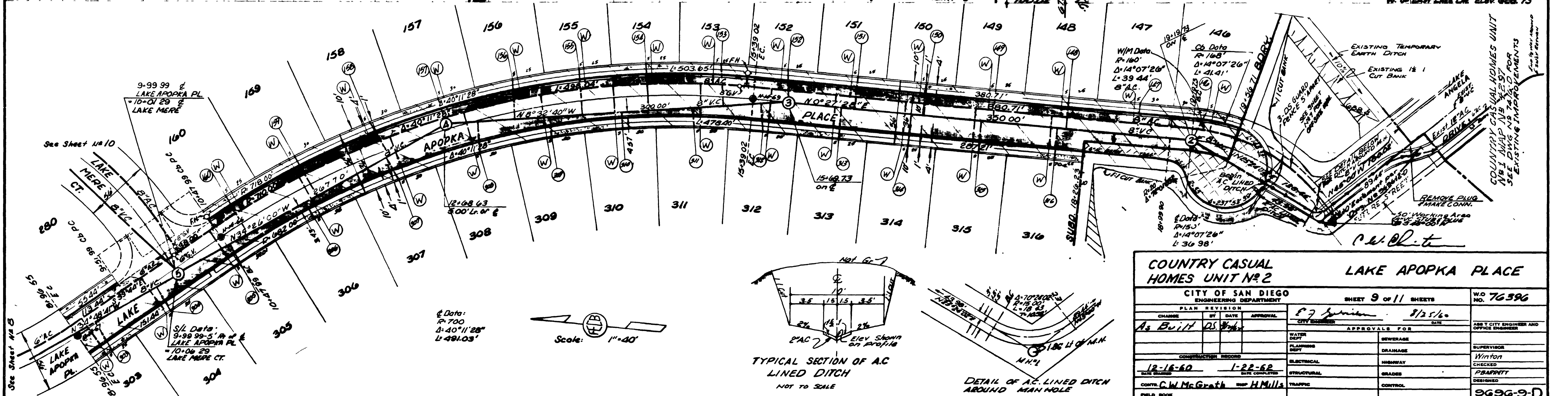
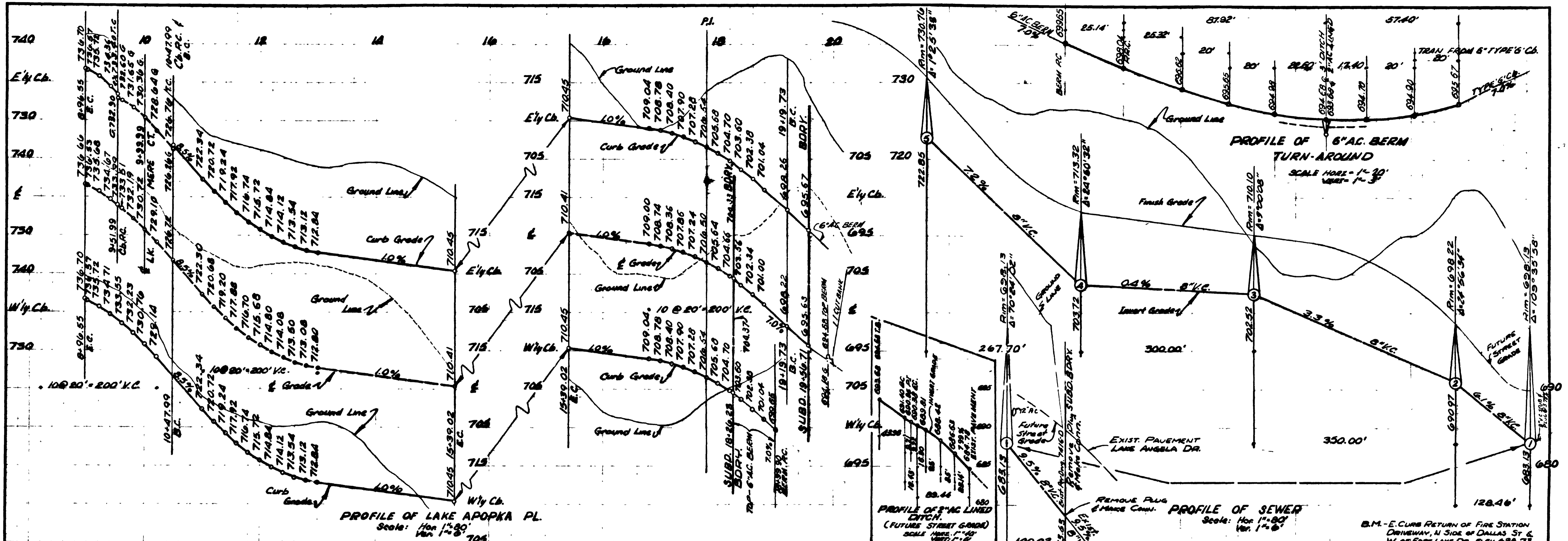
**COUNTRY CASUAL HOMES UNIT #2 LAKE APOPKA PLACE**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT SHEET 8 of 11 SHEETS NO. 76396

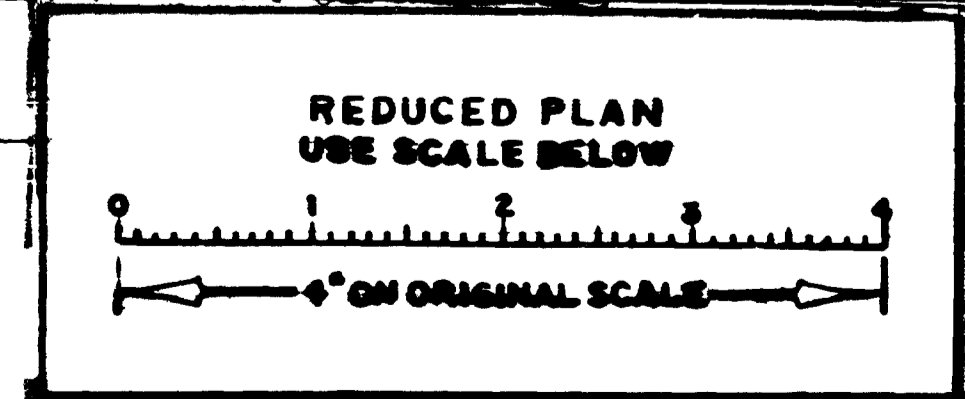
PLAN REVISION		APPROVALS FOR	
CHANGE	BY DATE	DATE	DATE
As Built	2/1/64		

WATER DEPT.	SEWERAGE	SUPERVISOR
PLANNING DEPT.	DRAINAGE	WINTON
CONSTRUCTION BIDDING	HIGHWAY	CHECKED
12-16-60	1-22-62	DESIGNED
CITY ENGINEER	DATE CHECKED	DESIGNED
CITY ENGINEER	CITY ENGINEER	DESIGNED
C.W. McGrath	H. Mills	
FIELD BOOK	CONTROL	
		5696-B-D

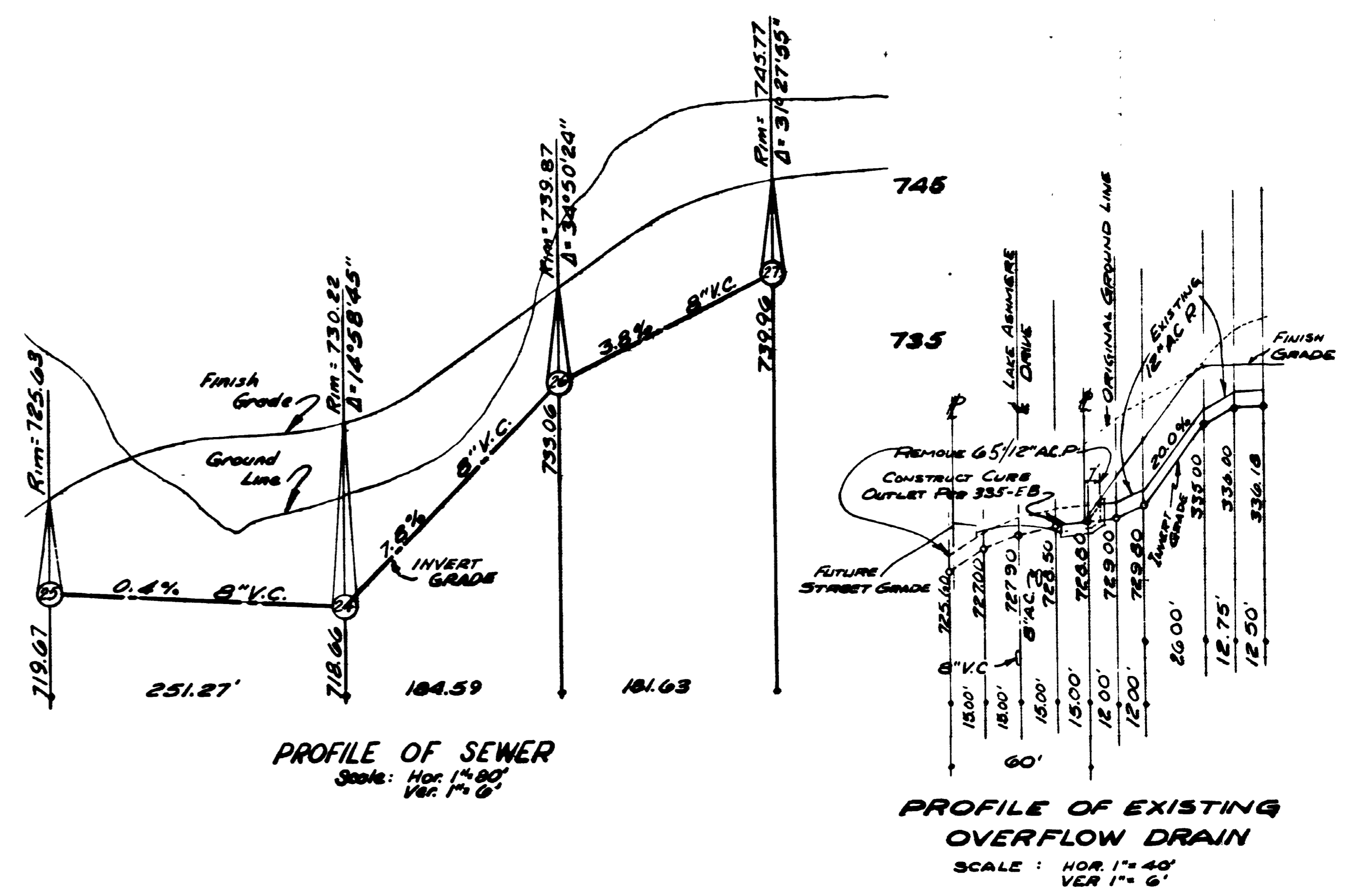
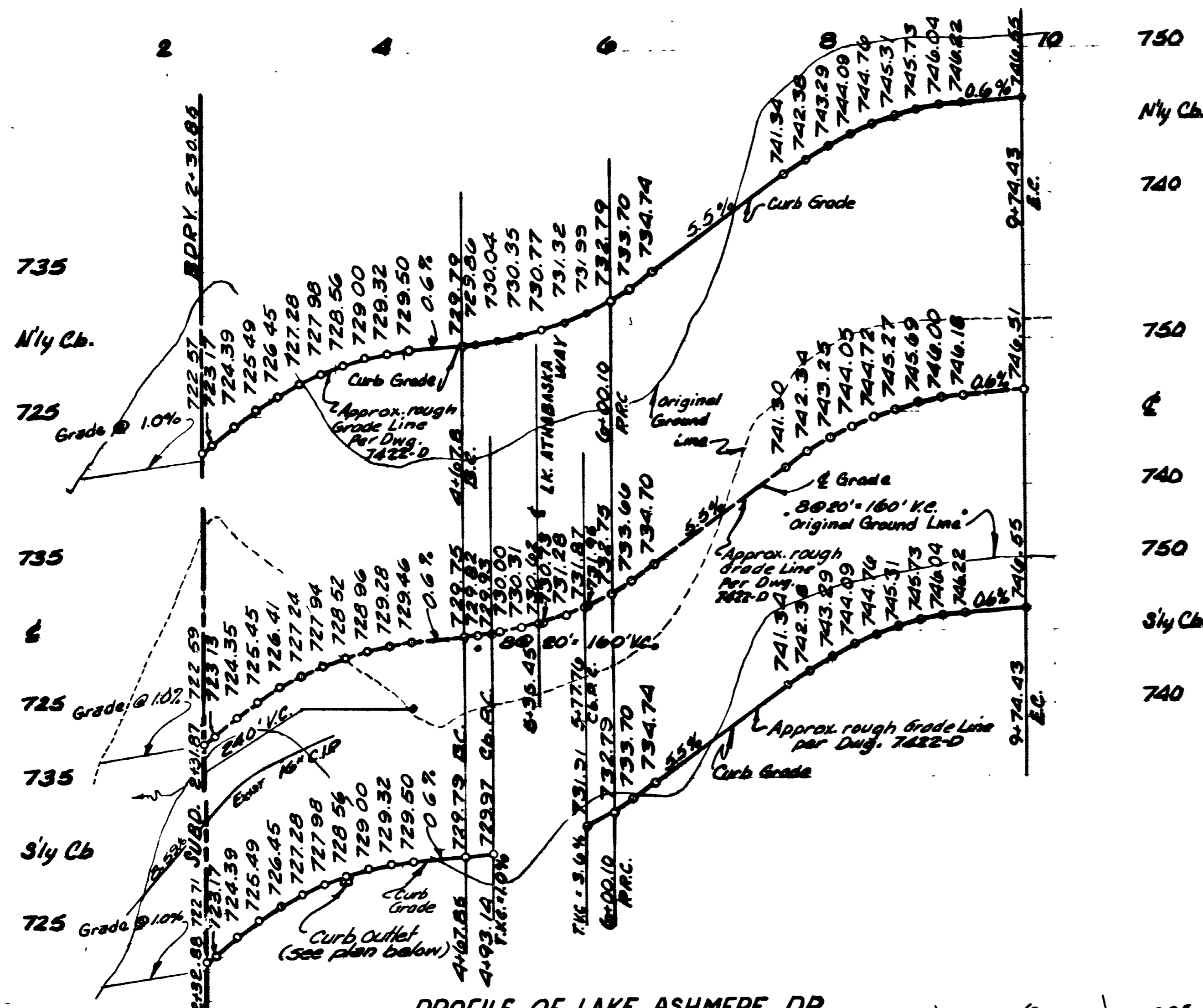
MICROFILMED A4677 INDEXED  
AUG 29 1963 SEP 8 1963



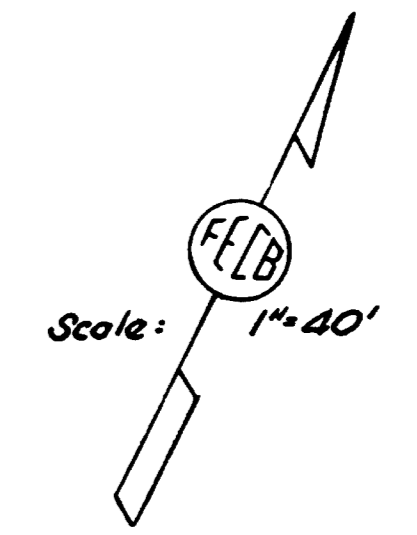
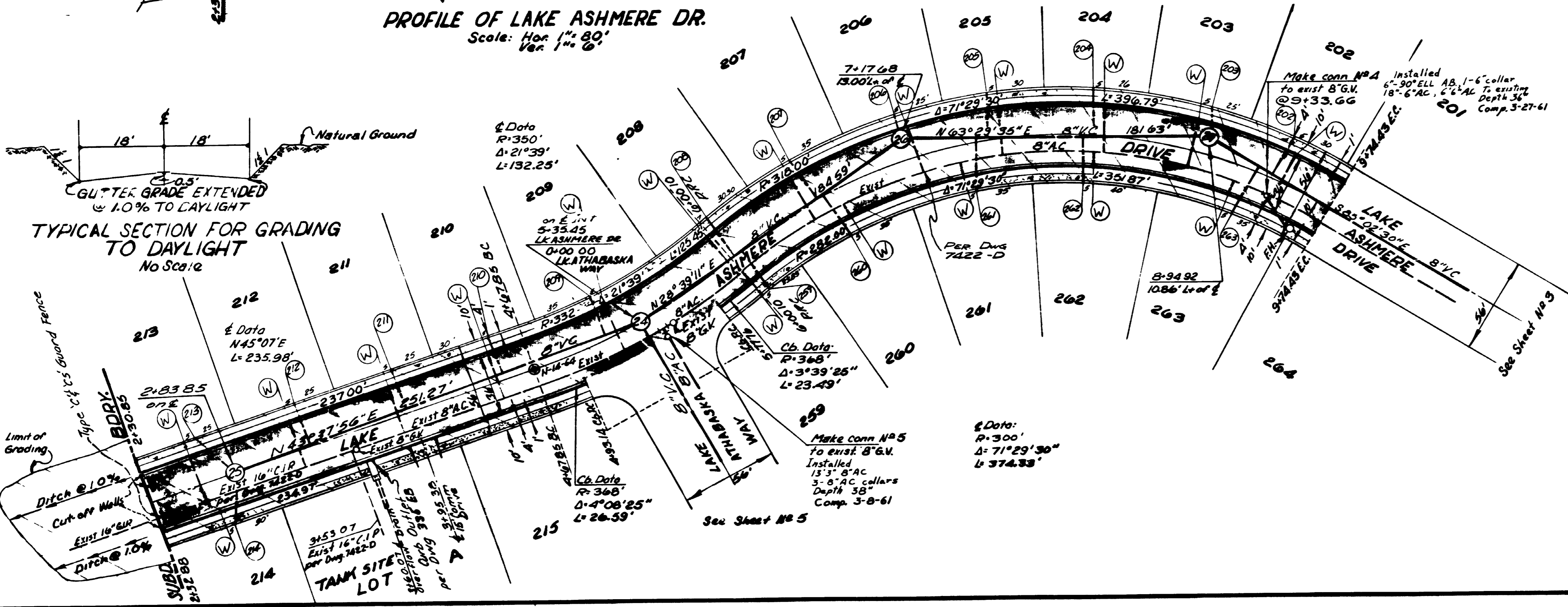
COUNTRY CASUAL HOMES UNIT #2		LAKE APOPKA PLACE	
CITY OF SAN DIEGO		ENGINEERING DEPARTMENT	
SHEET 9 OF 11 SHEETS		NO. 76396	
PLAN REVISION	DATE	APPROVAL	DATE
As Built	05/24/00	[Signature]	8/25/00
APPROVALS FOR		APPROVALS FOR	
CITY ENGINEER		CITY ENGINEER	
PLANNING DEPT.		SEWERAGE	
CONSTRUCTION DIVISION		DRAINAGE	
ELECTRICAL		HIGHWAY	
STRUCTURAL		GRADES	
TRAFFIC		CONTROL	
DATE: 12-16-00	DATE: 1-22-02	SUPERVISOR: Winton	
CONTR: C.W. McGrath		CHECKED: P. BARRY	
FIELD BOOK		DESIGNED: 96969-D	



MICROFILMED 44677



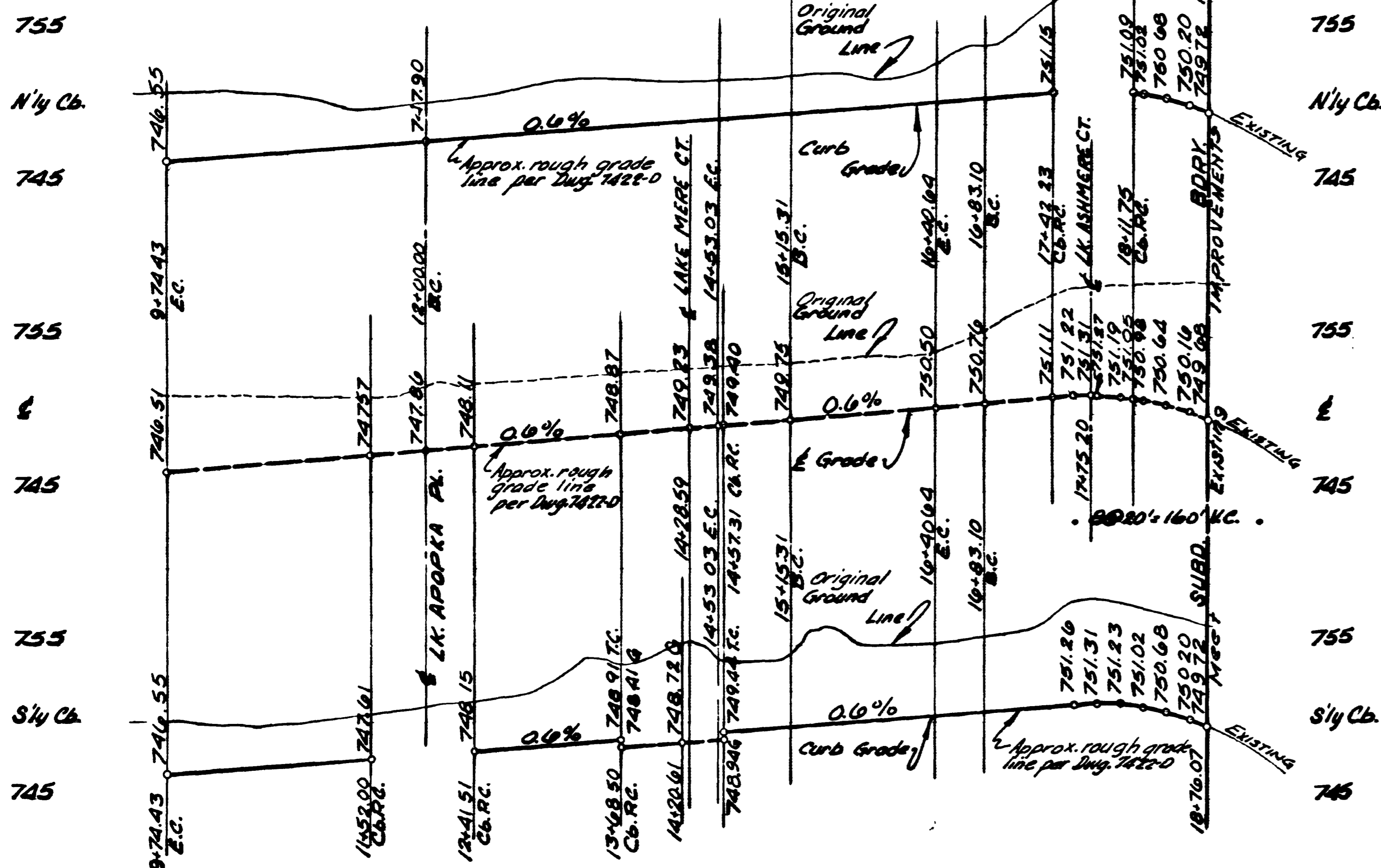
B.M. - E. CURB RETURN OF FIRE STATION DRIVEWAY - N SIDE OF DALLAS ST & W. OF EAST LAKE DR. ELEV. 628.73



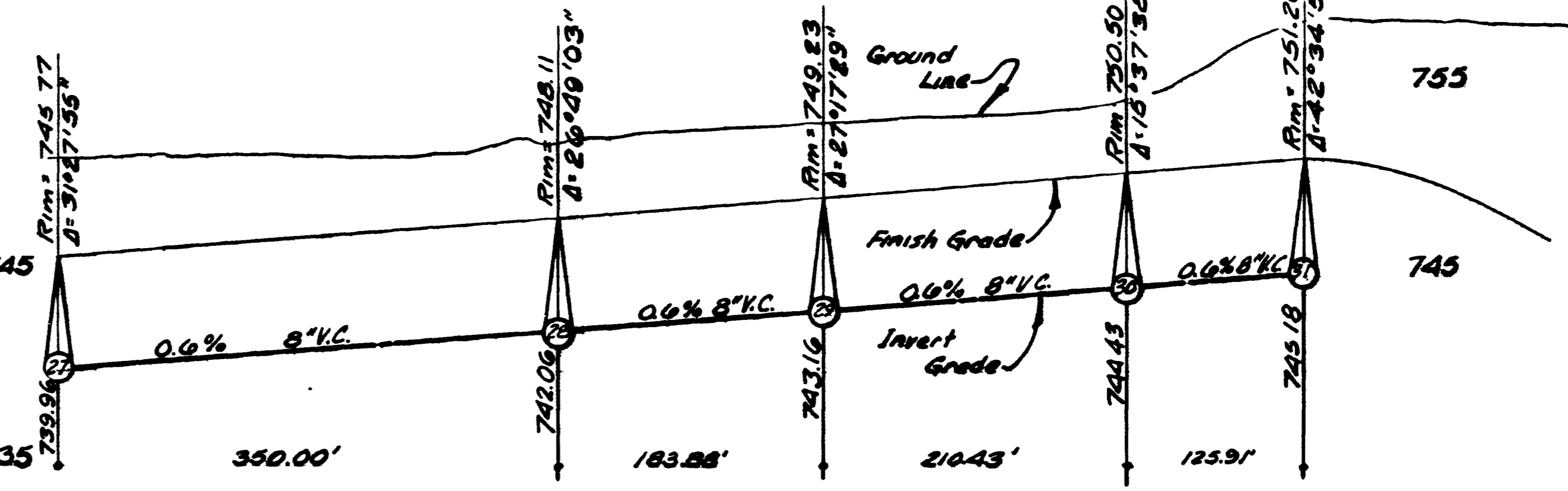
COUNTRY CASUAL HOMES UNIT # 2				LAKE ASHMERE DRIVE	
CITY OF SAN DIEGO ENGINEERING DEPARTMENT				SHEET 2 OF 11 SHEETS	
PLAN REVISION				NO. 76396	
CHANGE	BY	DATE	APPROVAL	APPROVALS FOR DATE	
As Built	D. J. [unclear]			8/25/60	
CONSTRUCTION RECORD				APPROVALS FOR	
12-16-60				WATER DEPT.	
1-22-62				SEWERAGE	
C.W. McGrath				PLANNING DEPT.	
H. Mills				DRAINAGE	
FIELD BOOK				HIGHWAY	
				ELECTRICAL	
				STRUCTURAL	
				GRADES	
				TRAFFIC	
				CONTROL	
				DESIGNED	
				3696-2-D	

MICROFILMED 44677  
AUG 29 1963

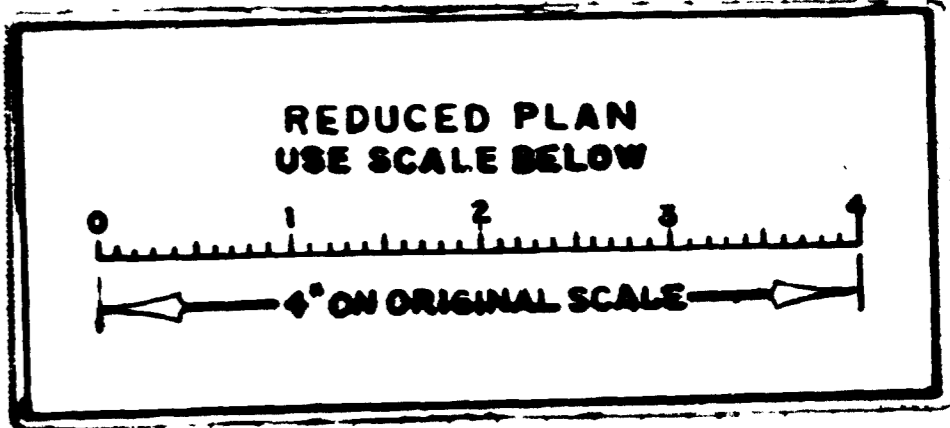
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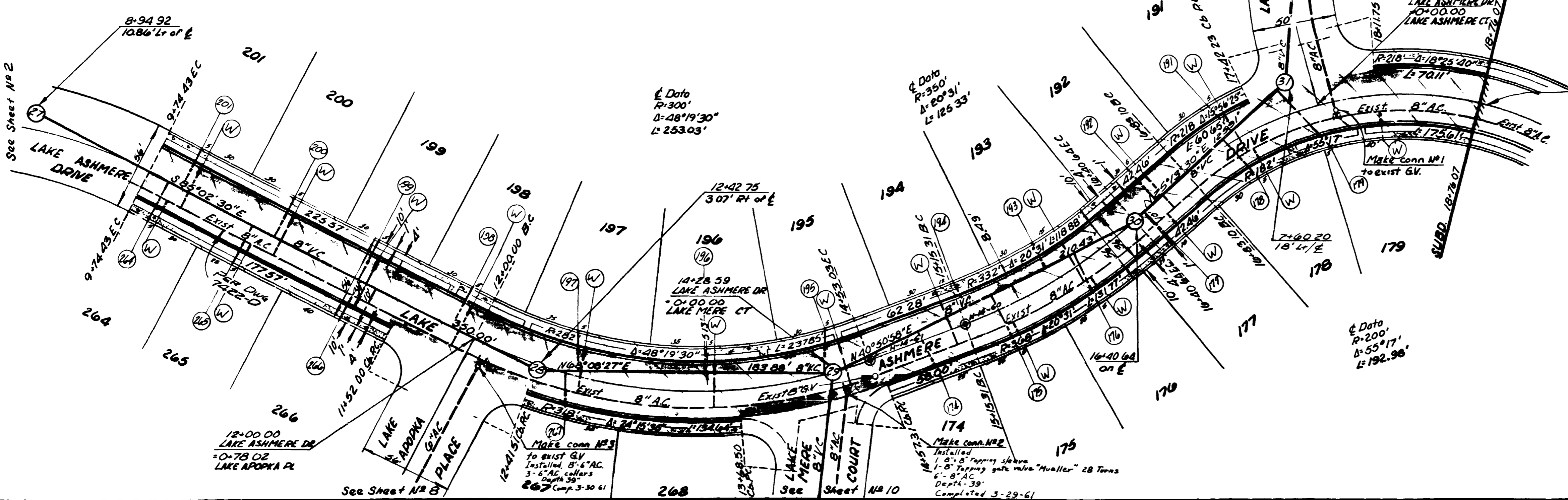
PROFILE OF LAKE ASHMERE DR.  
Scale: Hor. 1"=80'  
Ver. 1"=6'



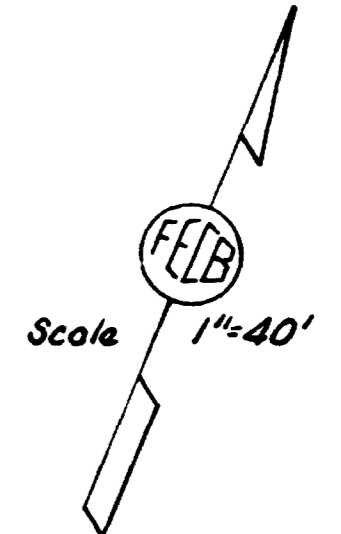
PROFILE OF SEWER  
Scale: Hor. 1"=80'  
Ver. 1"=6'



B.M.-E CURB RETURN OF FIRE STATION DRIVEWAY, N. SIDE OF DALLAS ST. & W. OF EAST LAKE DR. ELEV. 688.73



FOR EXISTING IMPROVEMENTS SEE COUNTRY CASUAL HOMES UNIT NO 1 DWG. NO 7417-D

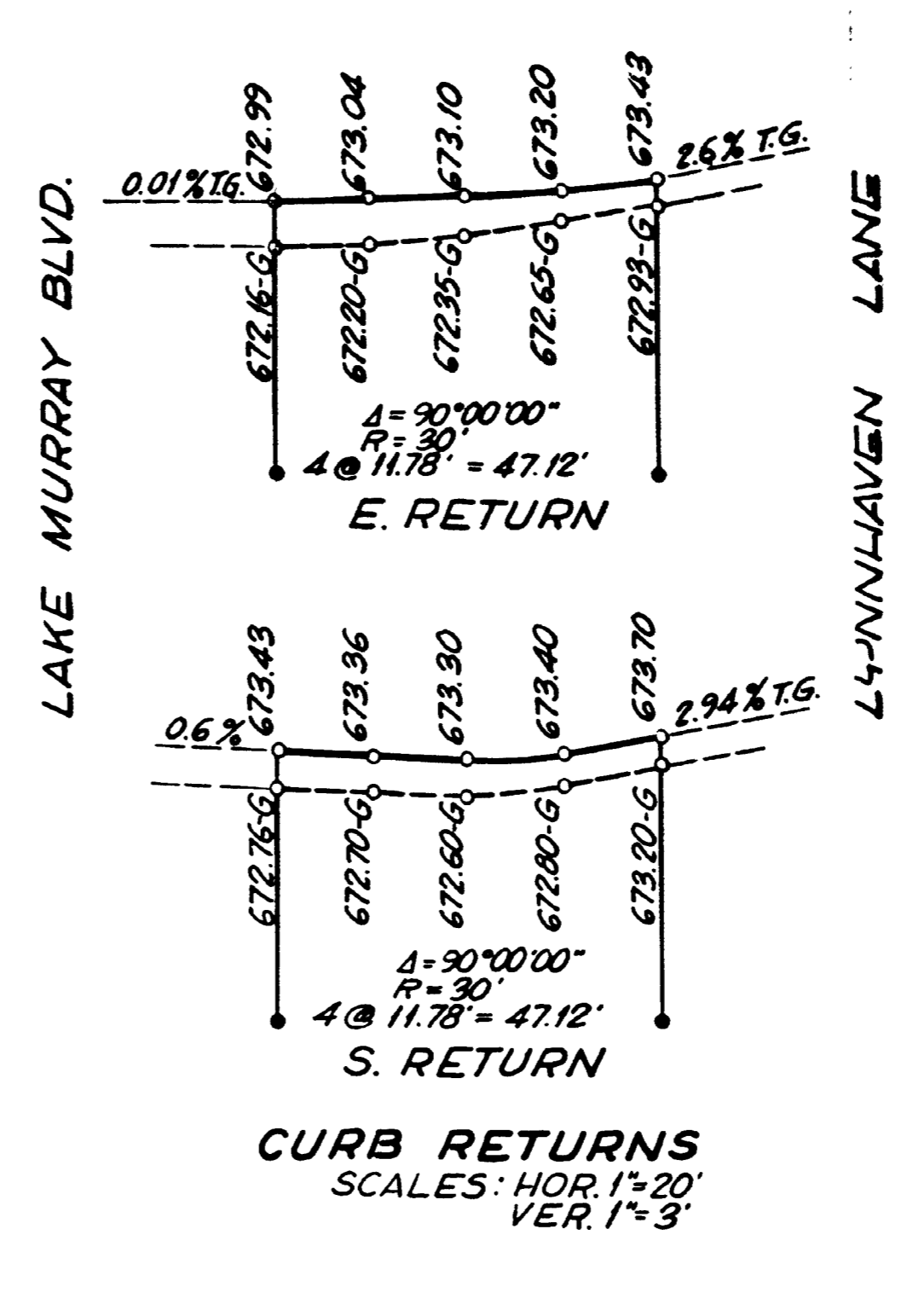
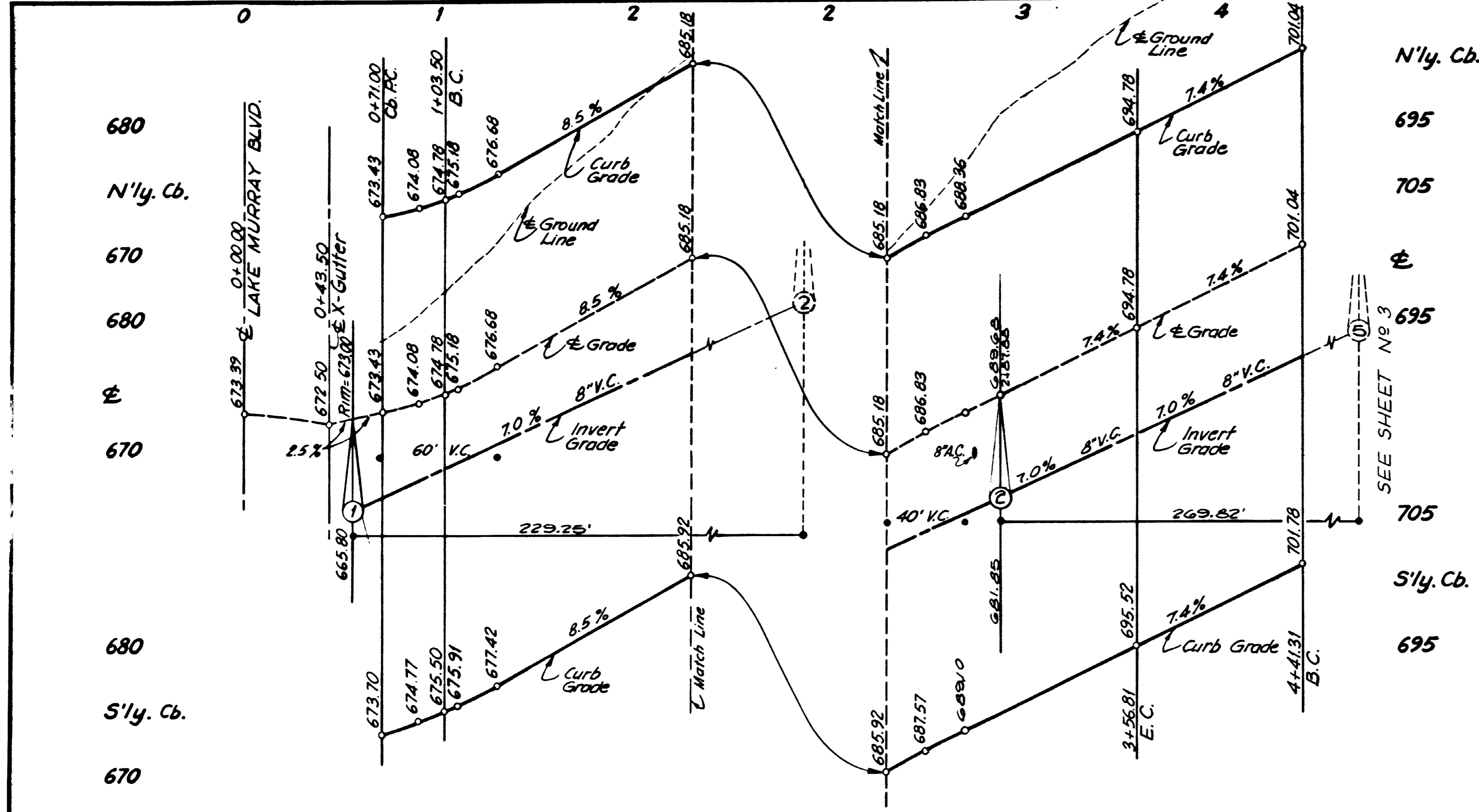


*C.W. O'Neil*

COUNTRY CASUAL HOMES UNIT NO 2				LAKE ASHMERE DRIVE	
CITY OF SAN DIEGO ENGINEERING DEPARTMENT				SHEET 3 OF 11 SHEETS	
W.O. NO. 76396					
PLAN	REVISION	DATE	APPROVAL	APPROVALS FOR CITY	
As Built	05/7/62		E. J. Jones	8/25/60	
CONSTRUCTION RECORD	DATE STARTED	DATE COMPLETED	DESIGNED	CHECKED	SUPERVISOR
	12-16-60	1-22-62	C.W. McGrath	H. Mills	W. Fort
FIELD BOOK			CONTR. C.W. McGrath	INSPECTION H. Mills	DESIGNED P. BARRETT
					CONTROL 9696-3-D

AUG 29 1963

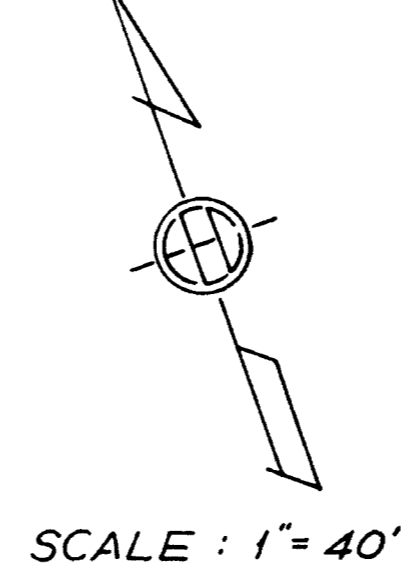
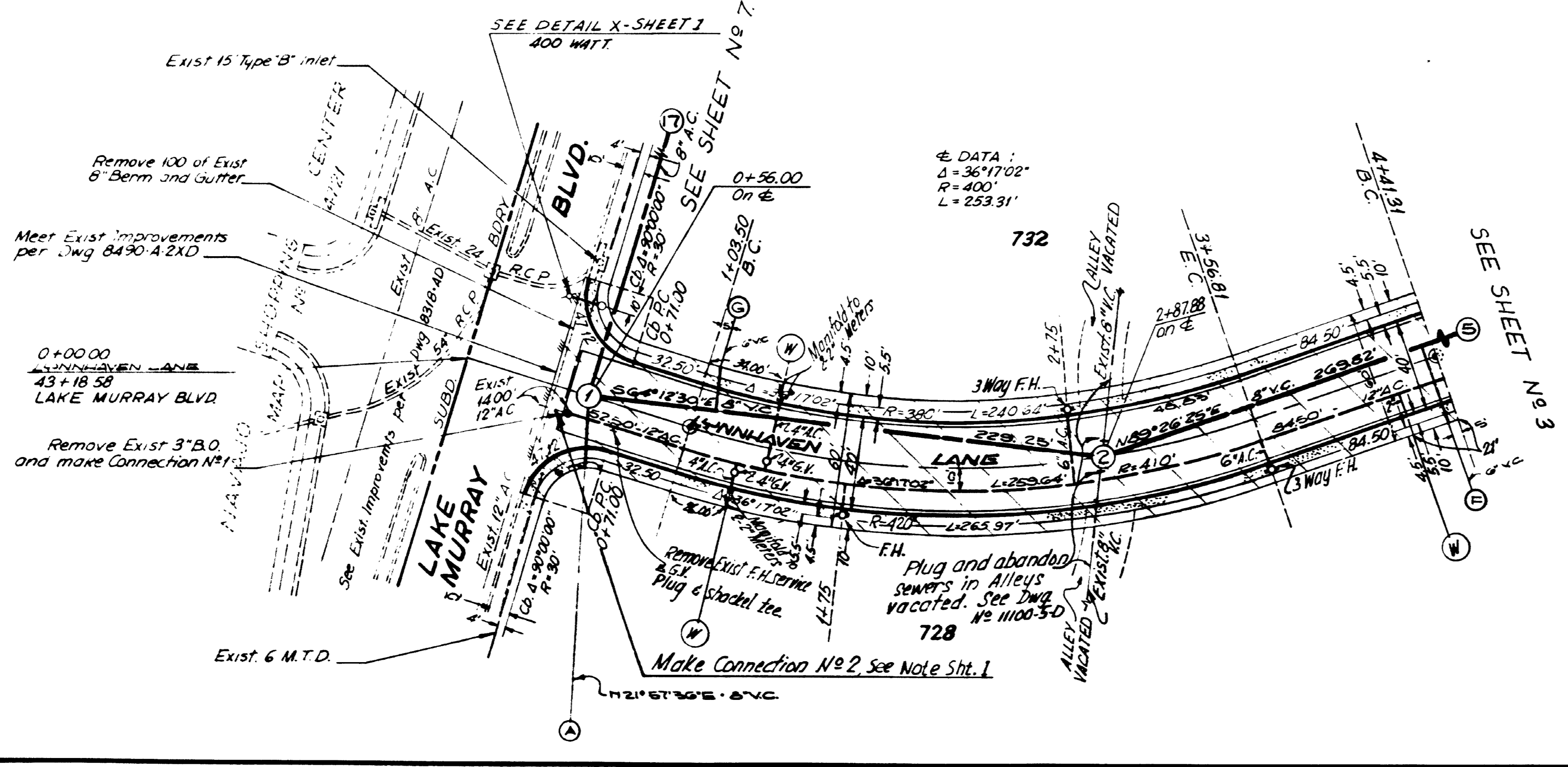
44677 NLEXED



PROFILE OF L4NNHAVEN LANE  
 SCALES: HOR. 1"=40'; VER. 1"=6'

B.M.  
 Chiseled square in NW curb return @ San Carlos Dr. and Lake Murray Blvd. Elev. 670.65 (City Dat.)

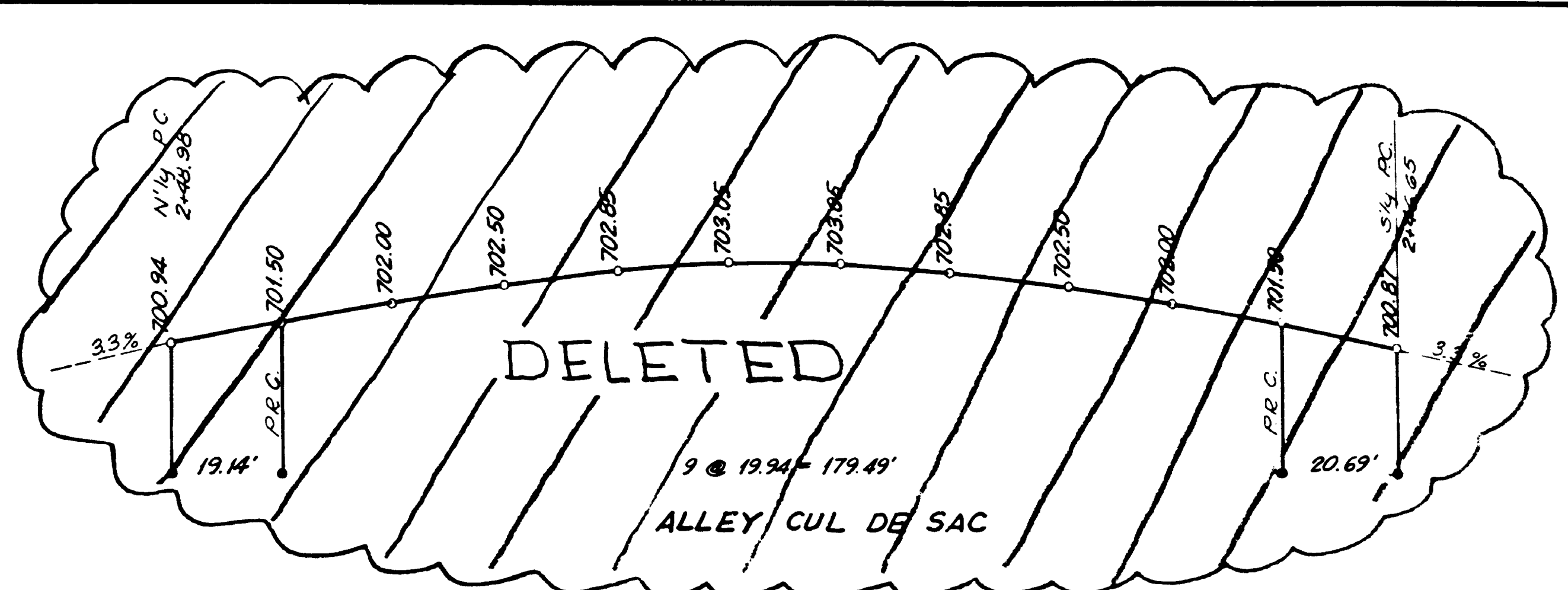
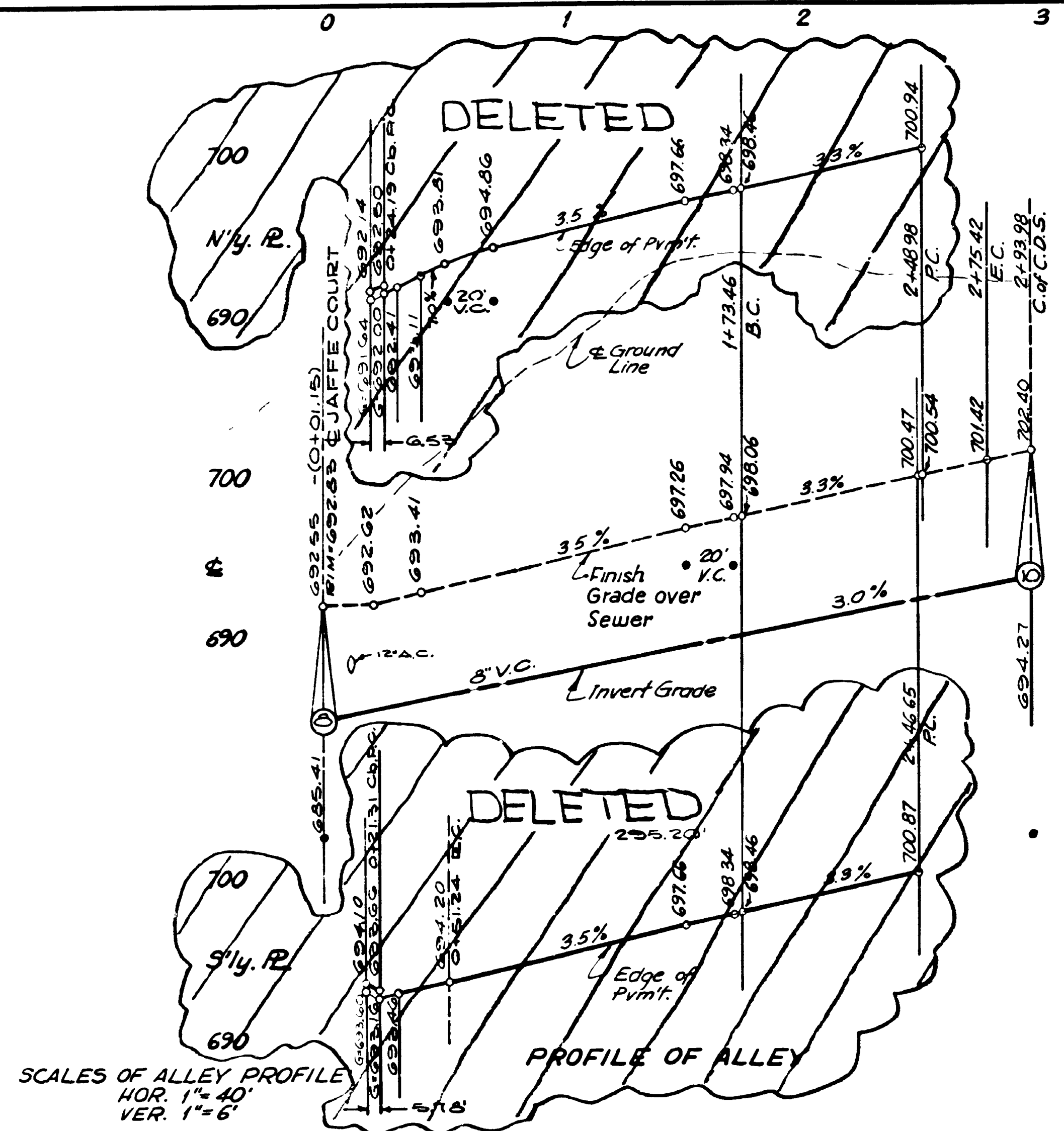
NOTE:  
 THIS DRAWING INCLUDES THE CHANGE SHOWN ON CONSTRUCTION CHANGE DRAWING 1100-2-XD & 2-YD



PRIVATE CONTRACT ENGINEER OF DESIGN  
 FREELAND, EVENSON & CHRISTENSEN  
 Bill K. Bramble R.C.E. 8102

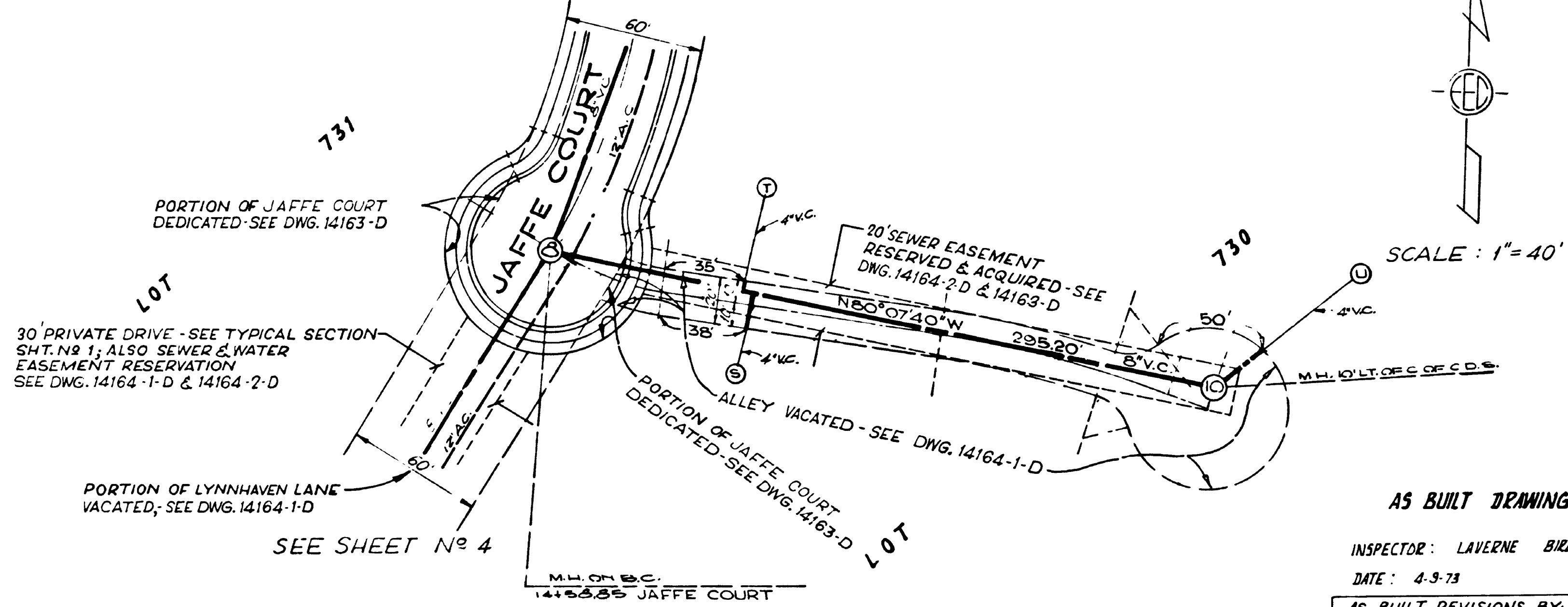
SAN CARLOS UNIT No 10		L4NNHAVEN LANE	
CITY OF SAN DIEGO ENGINEERING DEPARTMENT			
SHEET 2 of 9 SHEETS		W.D. NO. 76687	
PLANNING	DESIGN	CONSTRUCTION	FIELD
APPROVAL	DATE	APPROVAL	DATE
APPROVED	11/14/64	APPROVED	11/14/64
DESIGNED	DATE	CONSTRUCTED	DATE
DESIGNED	DATE	CONSTRUCTED	DATE
DESIGNED	DATE	CONSTRUCTED	DATE
DESIGNED	DATE	CONSTRUCTED	DATE

MICROFILMED A-5170



SCALES OF ALLEY PROFILE  
HOR. 1" = 40'  
VER. 1" = 6'

SEE SHEET No 4



**NOTE**

"C" CHANGE - DELETE ALL SURFACE IMPROVEMENTS WITHIN ALLEY TO BE VACATED; DELINEATED ALLEY TO BE VACATED; DELINEATED ALLEY TO BE RESERVED AND ACQUIRED.

**B.M.**  
Chiseled square in NW Curb  
return @ San Carlos Dr. and  
Lake Murray Blvd.  
Elev. : 670.65 (City Dat.)

PRIVATE CONTRACT  
ENGINEER OF DESIGN

FREELAND · EVENSON & CHRISTENSEN  
*Bill K. Bramble* R.C.E. 8102

**SAN CARLOS SEWER WITHIN ALLEY  
UNIT No 10 VACATED, LOT 730**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 5 of 13 SHEETS		W.O. NO. 76687
CHANGE	PLAN REVISION	APPROVAL	APPROVALS FOR	
1	DELETE ALLEY AND SEWER	4/16/73	CITY ENGINEER	APST CITY ENGINEER AND OFFICE ENGINEER
2	DELETE ALLEY AND SEWER	4/16/73	PLANNING DEPT.	SUPERVISOR
3	DELETE ALLEY AND SEWER	4/16/73	WATER DEPT.	CHECKED
4	DELETE ALLEY AND SEWER	4/16/73	ELECTRICAL	DESIGNED
5	DELETE ALLEY AND SEWER	4/16/73	STRUCTURAL	GRADES
6	DELETE ALLEY AND SEWER	4/16/73	TRAFFIC	CONTROL
7	DELETE ALLEY AND SEWER	4/16/73	FIELD BOOK	111005-D

AS BUILT DRAWING

INSPECTOR: LAVERNE BIRDSELL  
DATE: 4-9-73

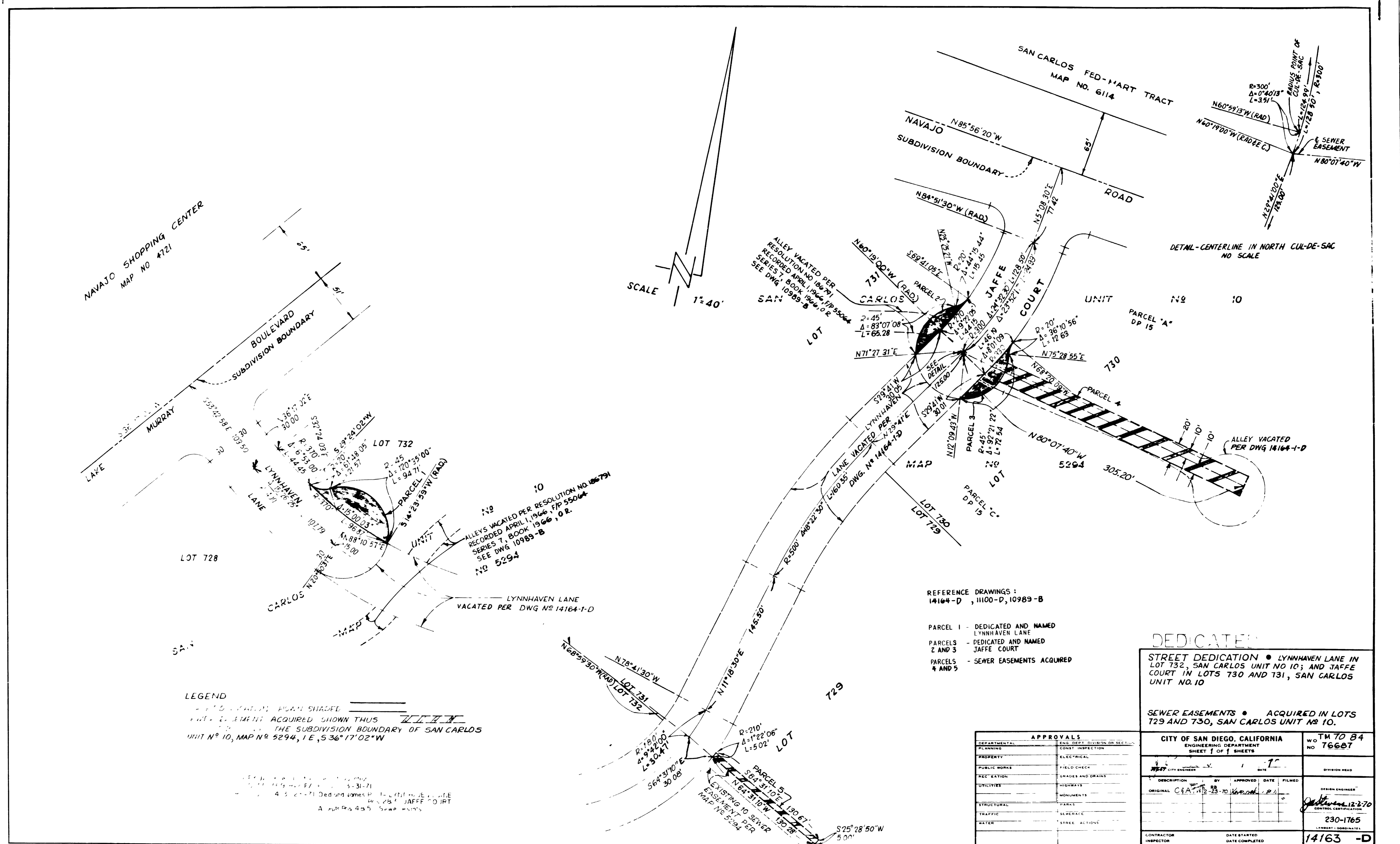
AS BUILT REVISIONS BY:  
NASLAND ENGINEERING, INC.

By: *Don Nasland*  
DON NASLAND, R.C.E. 15174

REVISION	BY	DATE	APPROVAL
AS BUILT	PRAT	5-4-73	771 77

NOT RECORDED  
**AS BUILT** A-5170  
FEB 2 1973





NAVAJO SHOPPING CENTER  
MAP NO 4721

LOT 732  
LYNNHAVEN LANE  
CARLOS LANE  
SUBDIVISION BOUNDARY

ALLEYS VACATED PER RESOLUTION NO. 106791  
RECORDED APRIL 1, 1966, FP 55064  
SERIES T, BOOK 1566, P. 0 R.  
SEE DWG 10989-B  
NG 5294

LYNNHAVEN LANE  
VACATED PER DWG NO 14164-T-D

LEGEND  
 - - - - - EASEMENT ACQUIRED THUS  
 - - - - - THE SUBDIVISION BOUNDARY OF SAN CARLOS  
 UNIT NO 10, MAP NO 5294, 1 E, S 36° 17' 02" W

SCALE 1"=40'

REFERENCE DRAWINGS:  
14164-D, 11100-D, 10989-B

PARCEL 1 - DEDICATED AND NAMED LYNNHAVEN LANE  
 PARCELS 2 AND 3 - DEDICATED AND NAMED JAFFE COURT  
 PARCELS 4 AND 5 - SEWER EASEMENTS ACQUIRED

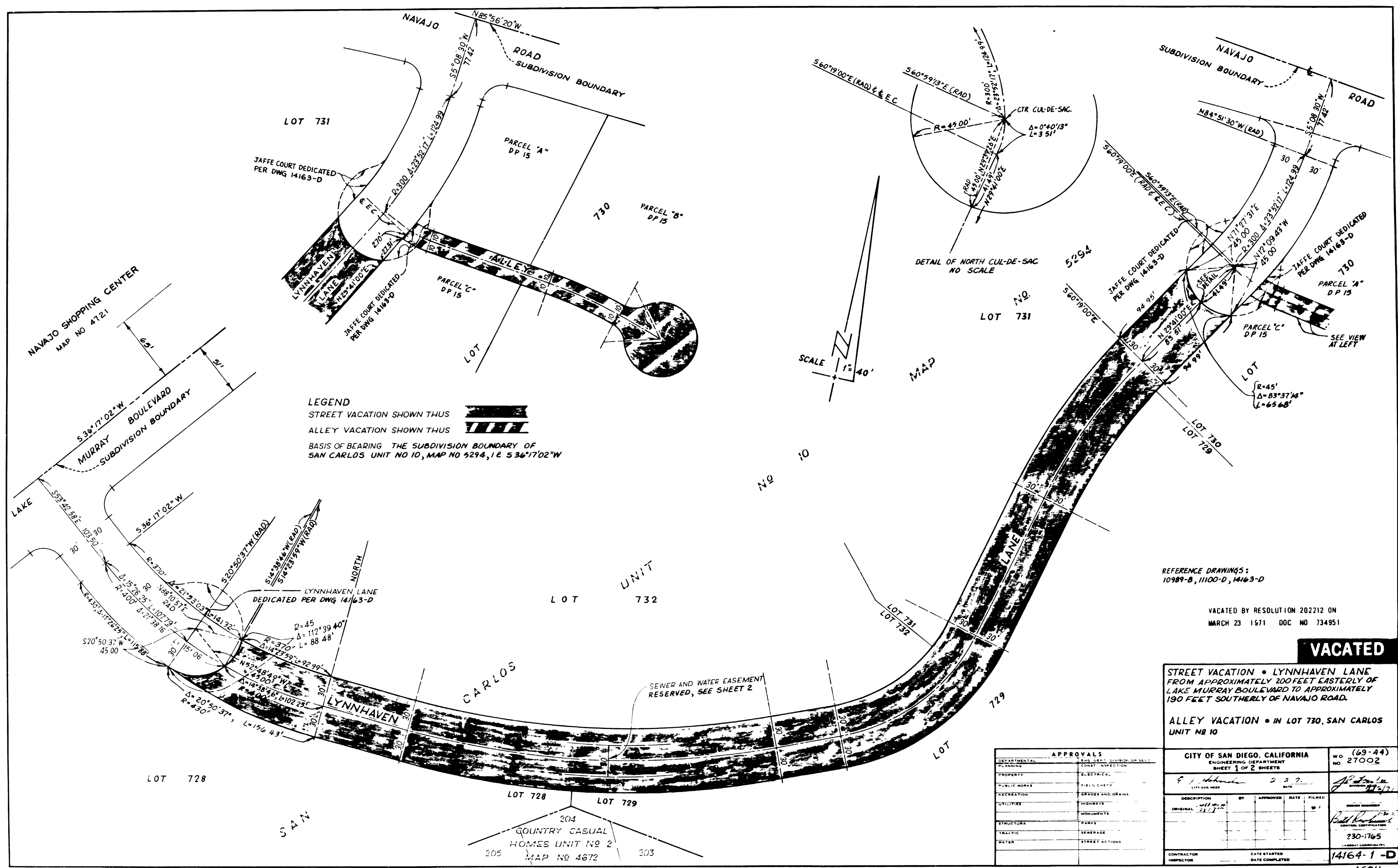
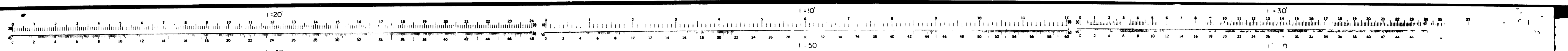
**DEDICATION**  
 STREET DEDICATION • LYNNHAVEN LANE IN LOT 732, SAN CARLOS UNIT NO 10; AND JAFFE COURT IN LOTS 730 AND 731, SAN CARLOS UNIT NO 10

SEWER EASEMENTS • ACQUIRED IN LOTS 729 AND 730, SAN CARLOS UNIT NO 10.

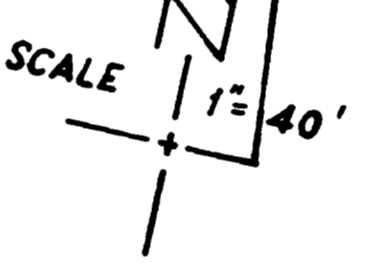
APPROVALS	
DEPARTMENTAL	ENGINEERING DIVISION ON SECTION
PLANNING	CONST. INSPECTION
PROPERTY	ELECTRICAL
PUBLIC WORKS	FIELD CHECK
REC. EXAM.	GRADES AND DRAINS
UTILITIES	HIGHWAYS
STRUCTURAL	MONUMENTS
TRAFFIC	PARKS
WATER	SEWERAGE
	STREET ACTIONS

CITY OF SAN DIEGO, CALIFORNIA		WO	TM 70 84
ENGINEERING DEPARTMENT		NO 76687	
SHEET 1 OF 1 SHEETS		DIVISION HEAD	
DATE	APPROVED	DATE	FILMED
1967	1	1967	
DESCRIPTION	BY	DATE	FILMED
ORIGINAL C&A	12-2-70	12-2-70	
DESIGNED BY		CHECKED BY	
J. L. ...		...	
DRAWN BY		...	
...		...	
DATE STARTED		DATE COMPLETED	
14163		-D	

E.W.C. # 11 4011



**LEGEND**  
 STREET VACATION SHOWN THUS   
 ALLEY VACATION SHOWN THUS   
 BASIS OF BEARING THE SUBDIVISION BOUNDARY OF  
 SAN CARLOS UNIT NO 10, MAP NO 5294, 1 E 536°17'02"W



MAP  
 NO 10

REFERENCE DRAWINGS:  
 10989-B, 11100-D, 14163-D

VACATED BY RESOLUTION 202212 0M  
 MARCH 23 1971 DOC NO 734951

**VACATED**

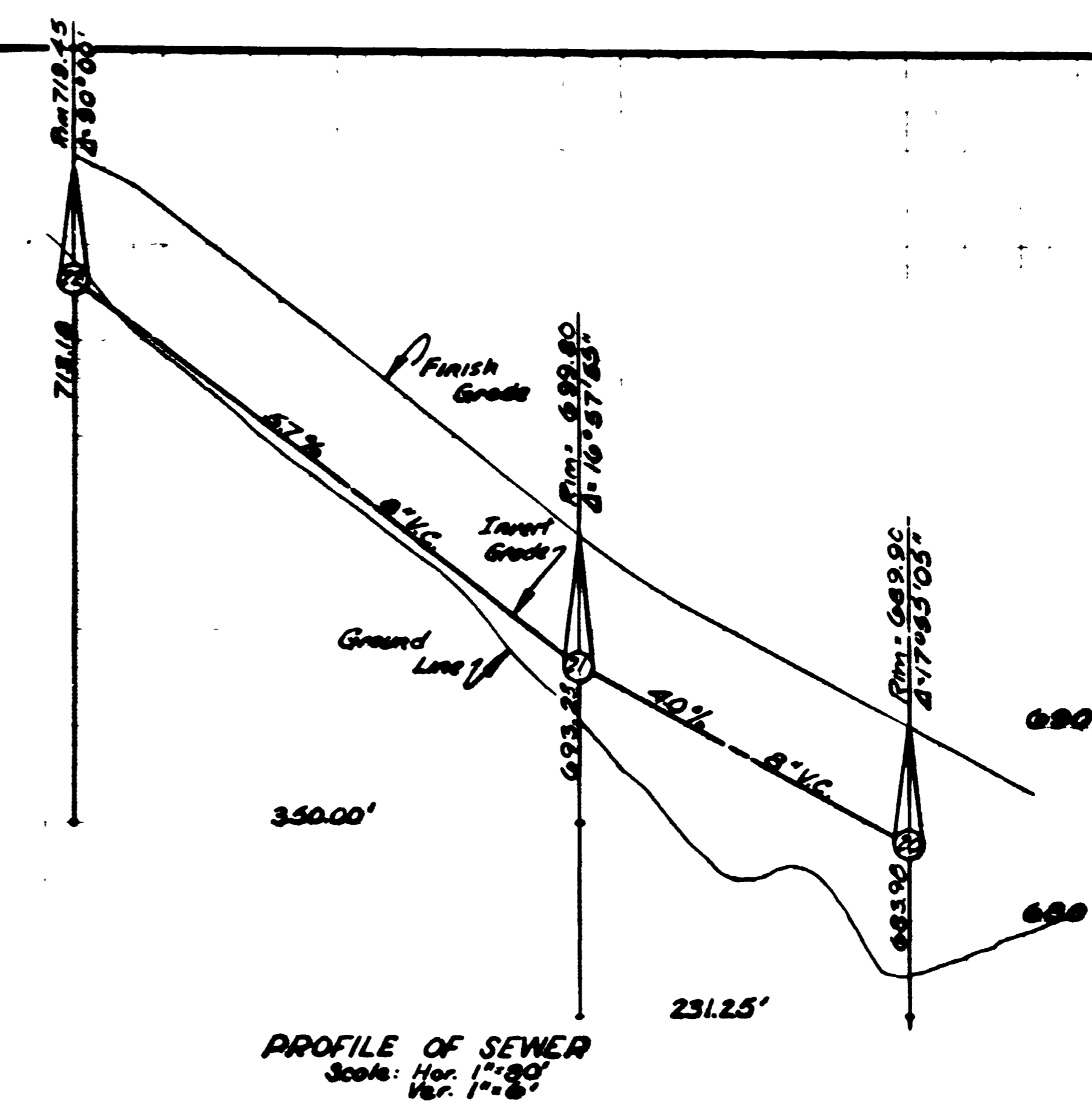
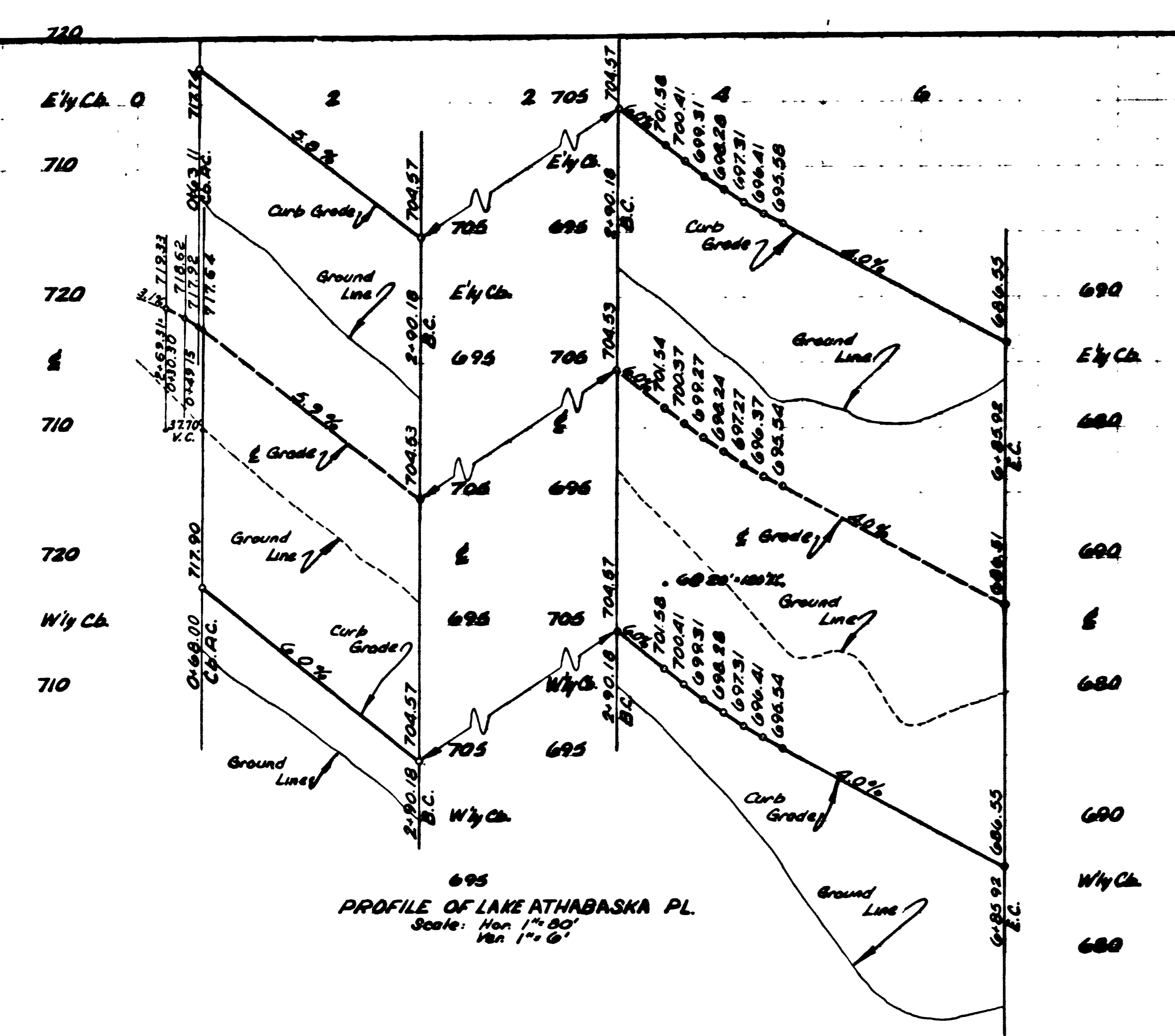
**STREET VACATION • LYNNHAVEN LANE**  
 FROM APPROXIMATELY 200 FEET EASTERLY OF  
 LAKE MURRAY BOULEVARD TO APPROXIMATELY  
 190 FEET SOUTHERLY OF NAVAJO ROAD.

**ALLEY VACATION • IN LOT 730, SAN CARLOS  
 UNIT NO 10**

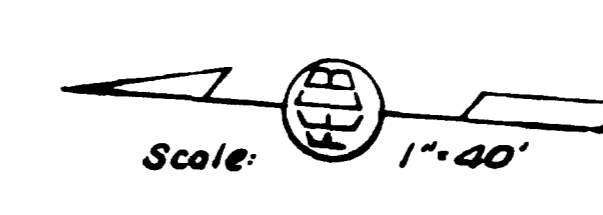
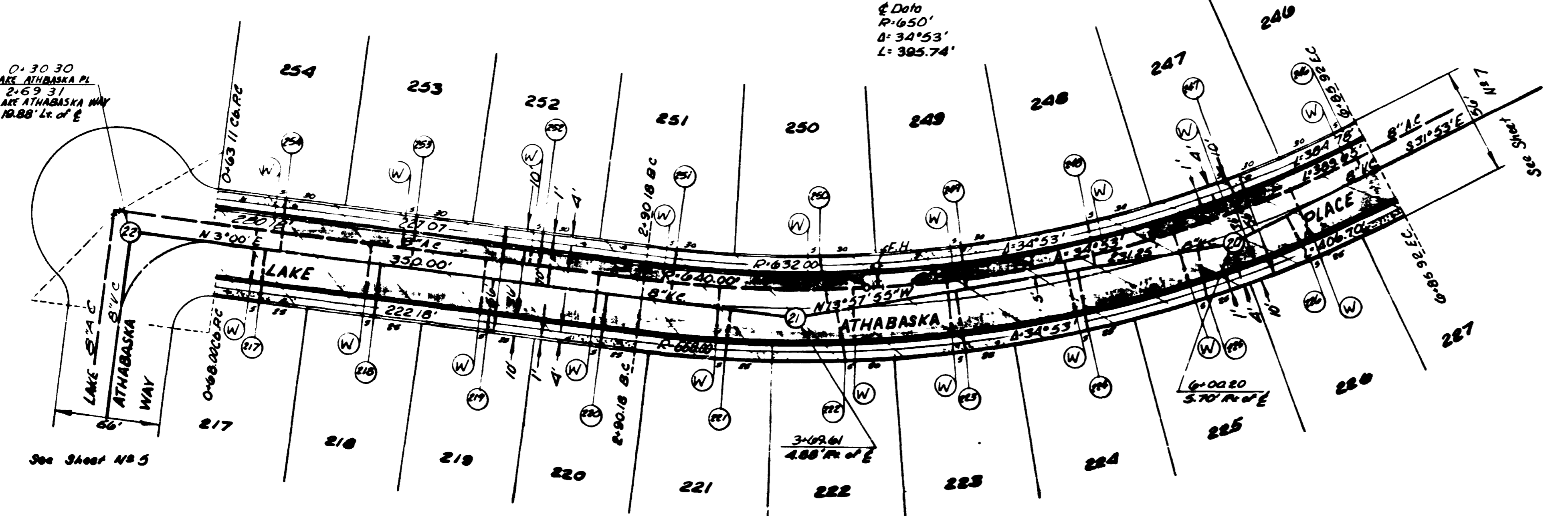
APPROVALS	
DEPARTMENTAL	ENG. DIVISION
PLANNING	CONTRACT INSPECTION
PROPERTY	ELECTRICAL
PUBLIC WORKS	FIELD CHECK
RECREATION	ETHELDS AND GRASS
UTILITIES	HIGHWAYS
STRUCTURE	MONUMENTS
TRAFFIC	PARKS
WATER	SEWERAGE
	STREET ACTIONS

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 1 OF 2 SHEETS		WD (69-44) NO 27002
DATE	BY	DATE
APPROVED	DATE	FILMED
DESCRIPTION	BY	DATE
ORIGINAL	DATE	DATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

14164-1-D  
 16011



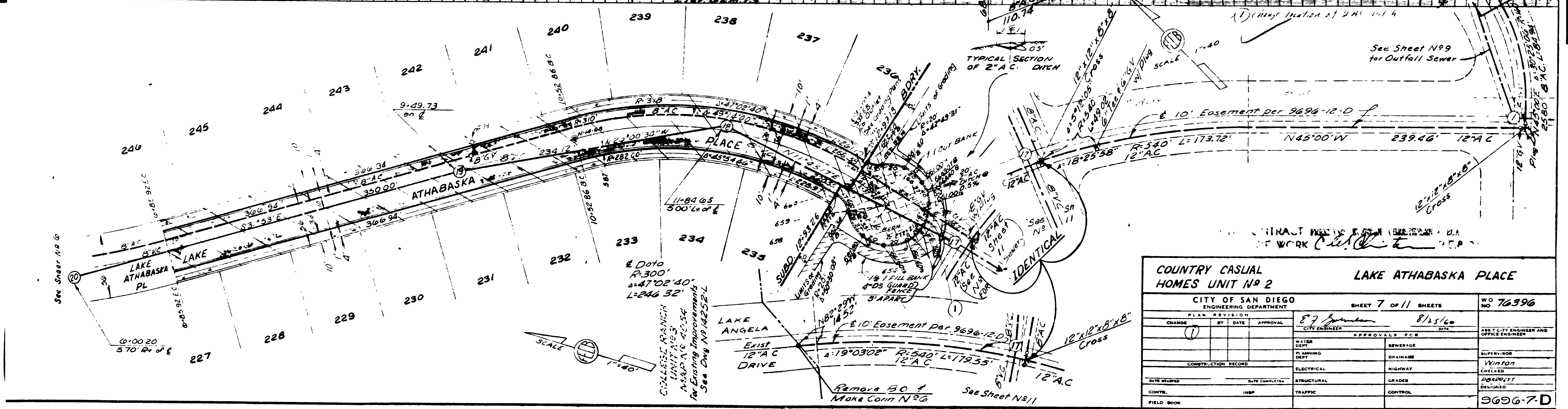
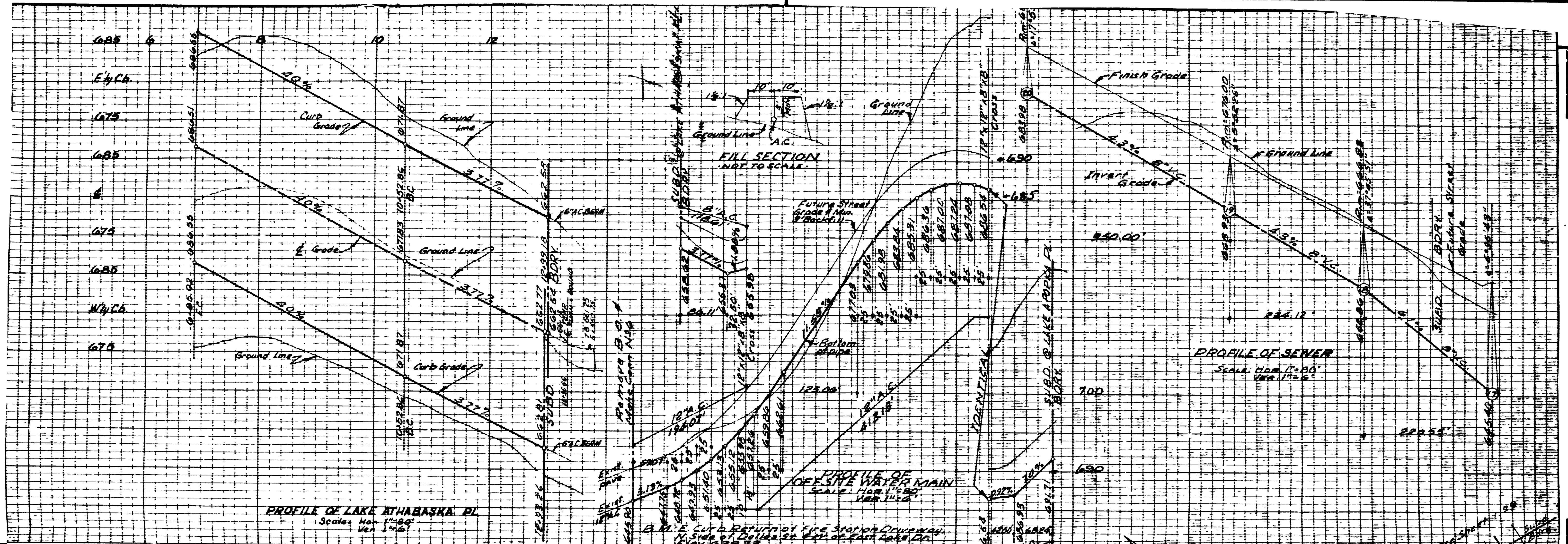
B.M. - E CURB RETURN OF FIRE STATION DRIVEWAY, N. SIDE OF DALLAS ST. E. W. OF EAST LAKE DR. ELEV. 628.75



PRIVA EN *C.W. McGrath*

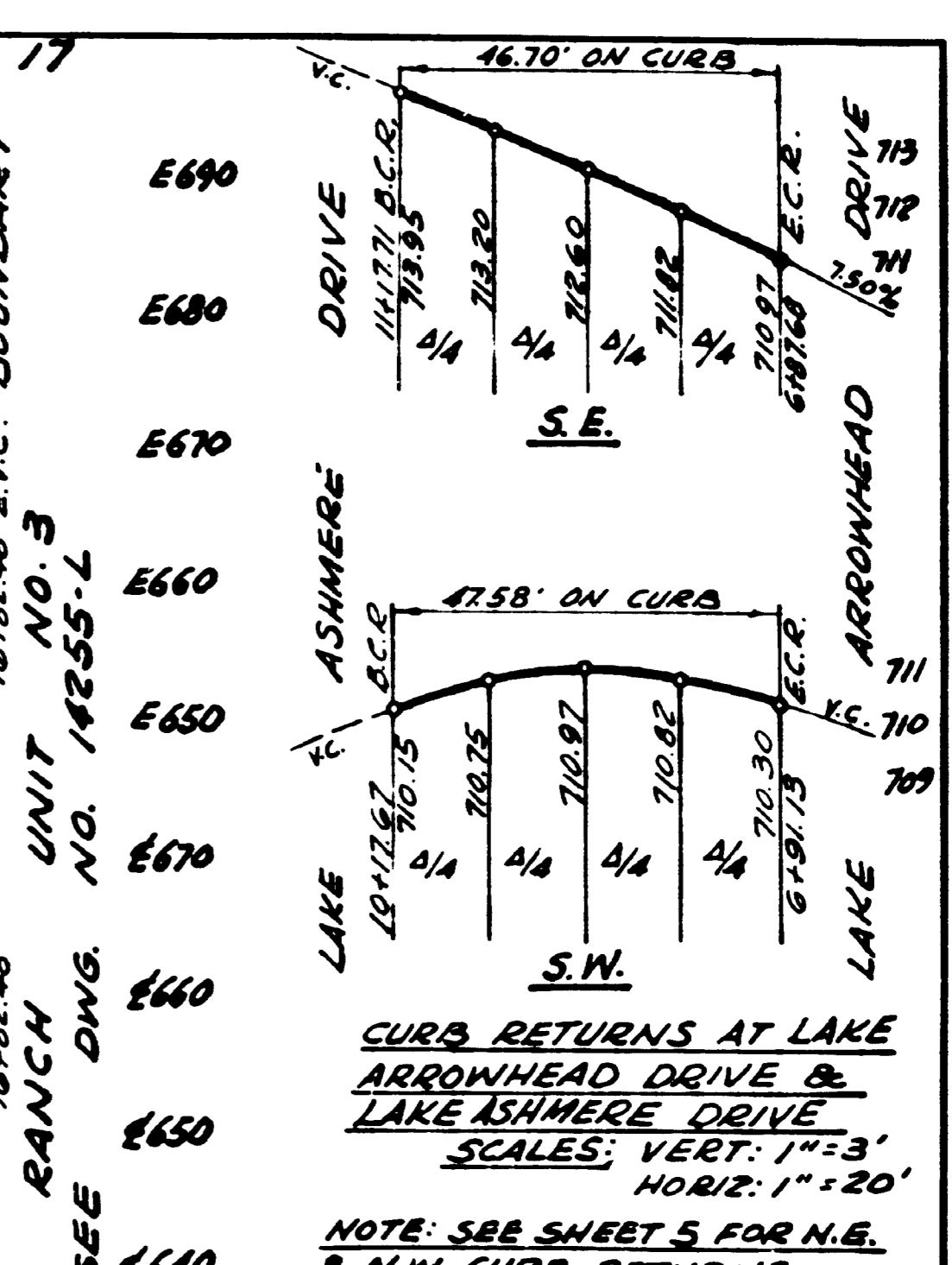
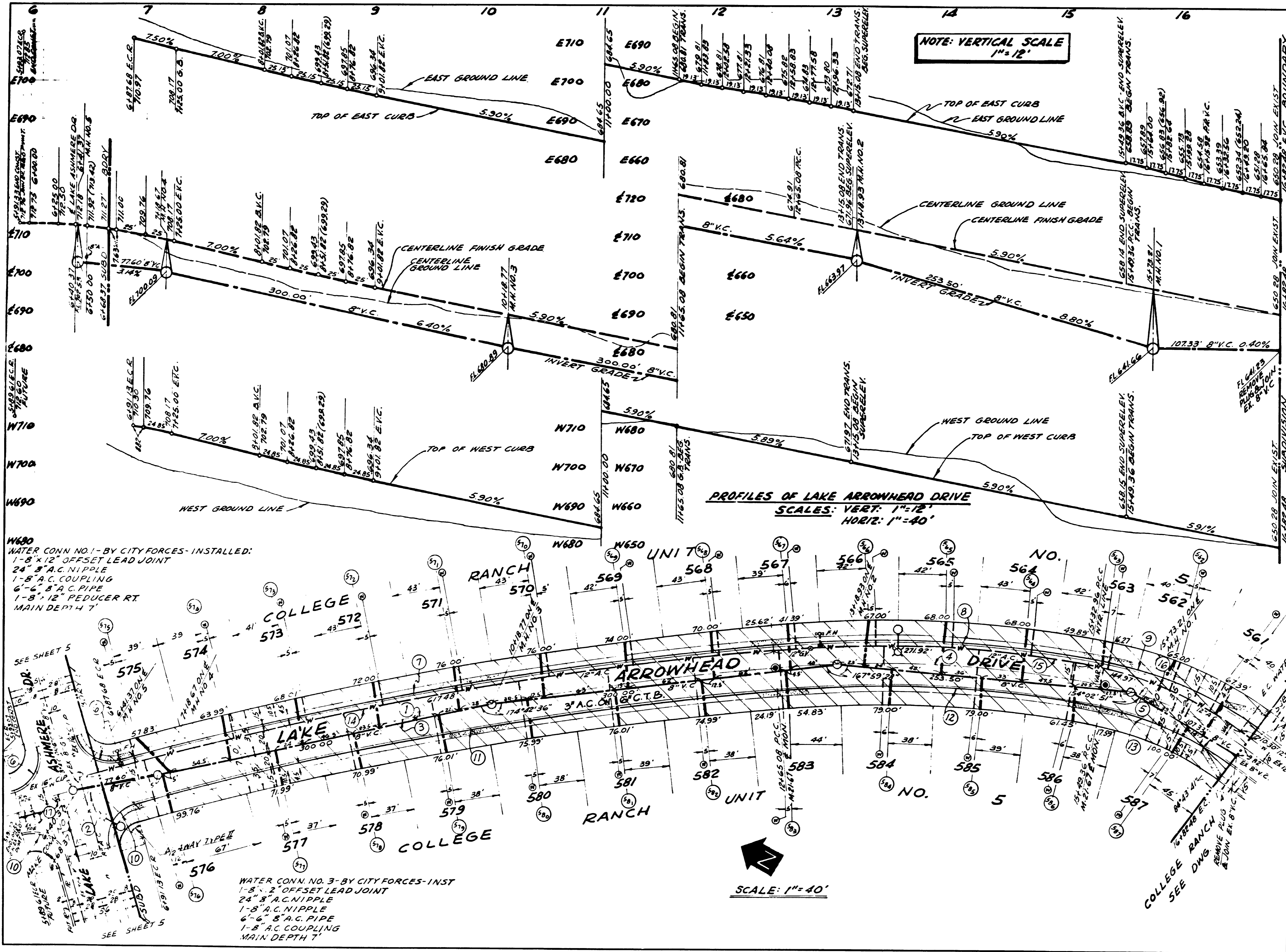
<b>COUNTRY CASUAL HOMES UNIT No 2</b>		<b>LAKE ATHABASKA PLACE</b>	
CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 6 OF 11 SHEETS	
W.D. NO. 76396		DATE: 8/25/60	
PLAN REVISION	APPROVAL	APPROVALS FOR	
CHARGE BY DATE	DATE	CITY ENGINEER	CITY ENGINEER AND OFFICE IN CHARGE
As Built D.C.M.		WATER	SEWERAGE
		PLUMBING	SHADE
		ELECTRICAL	HIGHWAY
		STRUCTURAL	GRADES
		TRAFFIC	CONTROL
CONTRACTOR: C.W. McGrath	DATE: 1-22-62	FIELD BOOK	9696-6D

MICROFILMED 14677  
JUL 10 1966 AUG 28 1963



COUNTRY CASUAL HOMES UNIT #2		LAKE ATHABASKA PLACE		WO NO 76396
CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 7 OF 11 SHEETS		
CHANGE	BY	DATE	APPROVAL	
1			<i>E. J. Johnson</i>	8/15/60
CONSTRUCTION RECORD		APPROVALS FOR		
DATE STARTED	DATE COMPLETED	SEWERAGE	CHIEF ENGINEER	
		PLANNING DEPT	SUPERVISOR	
		ELECTRICAL	CHIEF	
		STRUCTURAL	DESIGNED	
		TRAFFIC	CONTROL	
FIELD BOOK				3696-7-D

THE TRACING OF THIS SHEET IS MISSING. THIS PRINT IS "AS BUILT" PER INSPECTOR.



NO.	ANGLE	CHORD	AREA	PERIMETER
1	10° 36' 15"	3175	624.70	313.25'
2	0° 28' 31"	3315	28.00	14.00'
3	10° 07' 48"	3315	596.70	298.13'
4	16° 22' 11"	995	284.28	143.11'
5	25° 25' 30"	300	133.12	67.68'
6	30° 51' 42"	30	44.70	22.35'
7	3° 48' 08"	3395	580.82	291.18'
8	16° 22' 11"	1015	289.99	145.99'
9	25° 25' 30"	320	142.00	71.00'
10	30° 51' 42"	30	47.58	23.79'
11	9° 44' 37"	3355	570.54	285.27'
12	16° 22' 11"	925	278.54	139.27'
13	25° 25' 30"	280	124.25	62.12'
14	10° 26' 11"	3390	677.48	338.74'
15	15° 25' 39"	1010	271.92	135.96'
16	25° 25' 30"	315	144.37	72.18'
17	0° 49' 57"	3375	48.04	24.02'

WATER CONN. NO. 1 - BY CITY FORCES - INSTALLED:  
 1-8" x 12" OFFSET LEAD JOINT  
 24" 8" A.C. NIPPLE  
 1-8" A.C. COUPLING  
 6"-6" 8" A.C. PIPE  
 1-8" x 12" REDUCER RT  
 MAIN DEPTH 4'

WATER CONN. NO. 3 - BY CITY FORCES - INST  
 1-8" x 2" OFFSET LEAD JOINT  
 24" 8" A.C. NIPPLE  
 1-8" A.C. NIPPLE  
 6"-6" 8" A.C. PIPE  
 1-8" A.C. COUPLING  
 MAIN DEPTH 7'

BY CITY FORCES - INSTALLED:  
 1-12" A.C. COUPLING  
 6"-6" 12" A.C. PIPE  
 1-12" A.C. COUPLING  
 6"-6" 12" A.C. PIPE  
 1-12" A.C. COUPLING  
 24" 12" A.C. NIPPLE  
 1-12" A.C. COUPLING  
 MAIN DEPTH 36"

SCALE: 1"=40'

PRIVATE CONTRACT  
 ENGINEER OF WORK *AS BUILT* RE 7830  
 TECHNOLOGICAL ENGINEERING CORP.

**PLANS FOR THE IMPROVEMENT OF LAKE ARROWHEAD DRIVE IN COLLEGE RANCH UNIT NO. 5**

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING DEPARTMENT  
 SHEET 2 OF 5 SHEETS

NO. 17001  
 7/4/67 26-5

DESCRIPTION: *AS BUILT*

DATE: 5.1.67

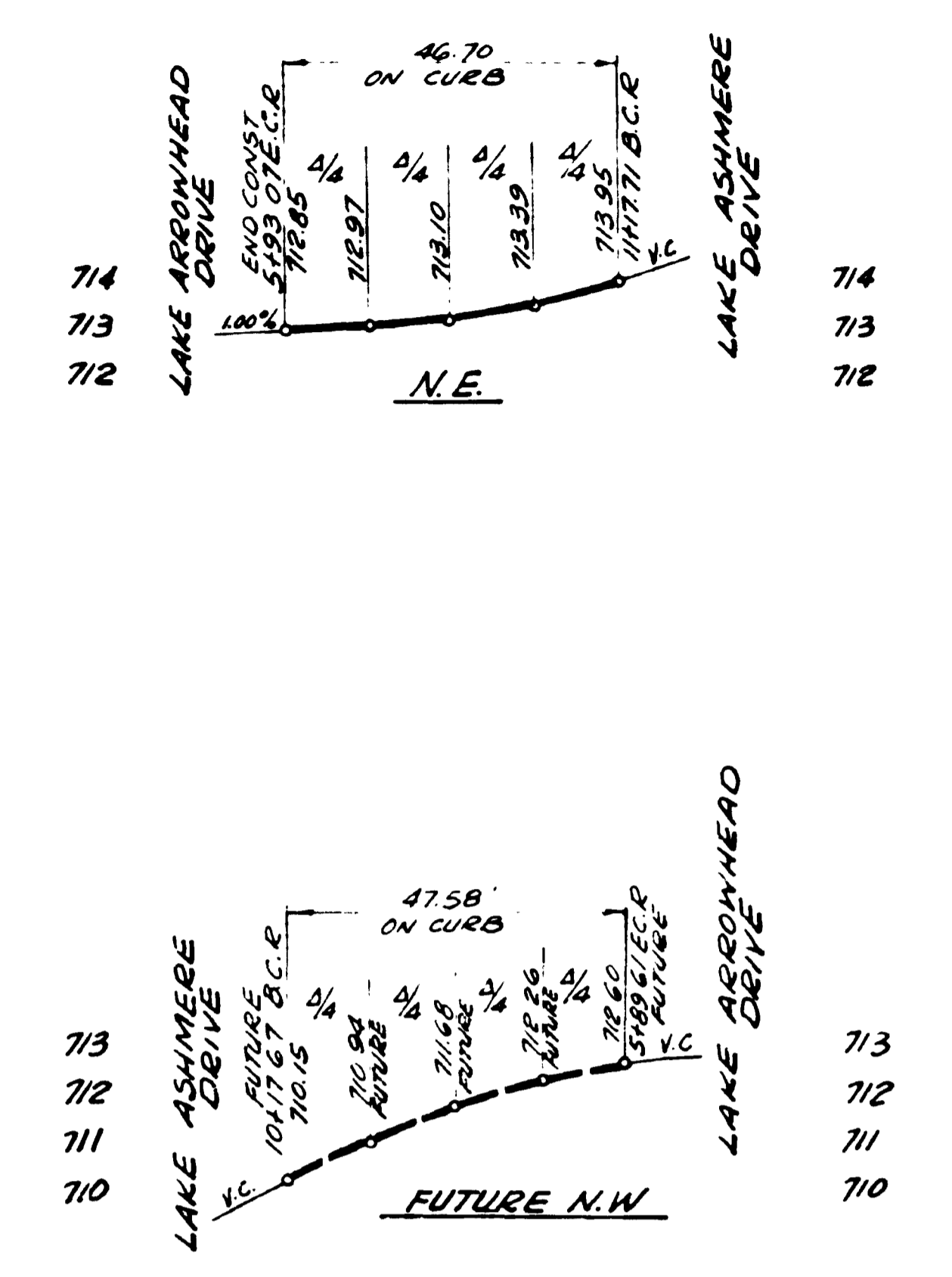
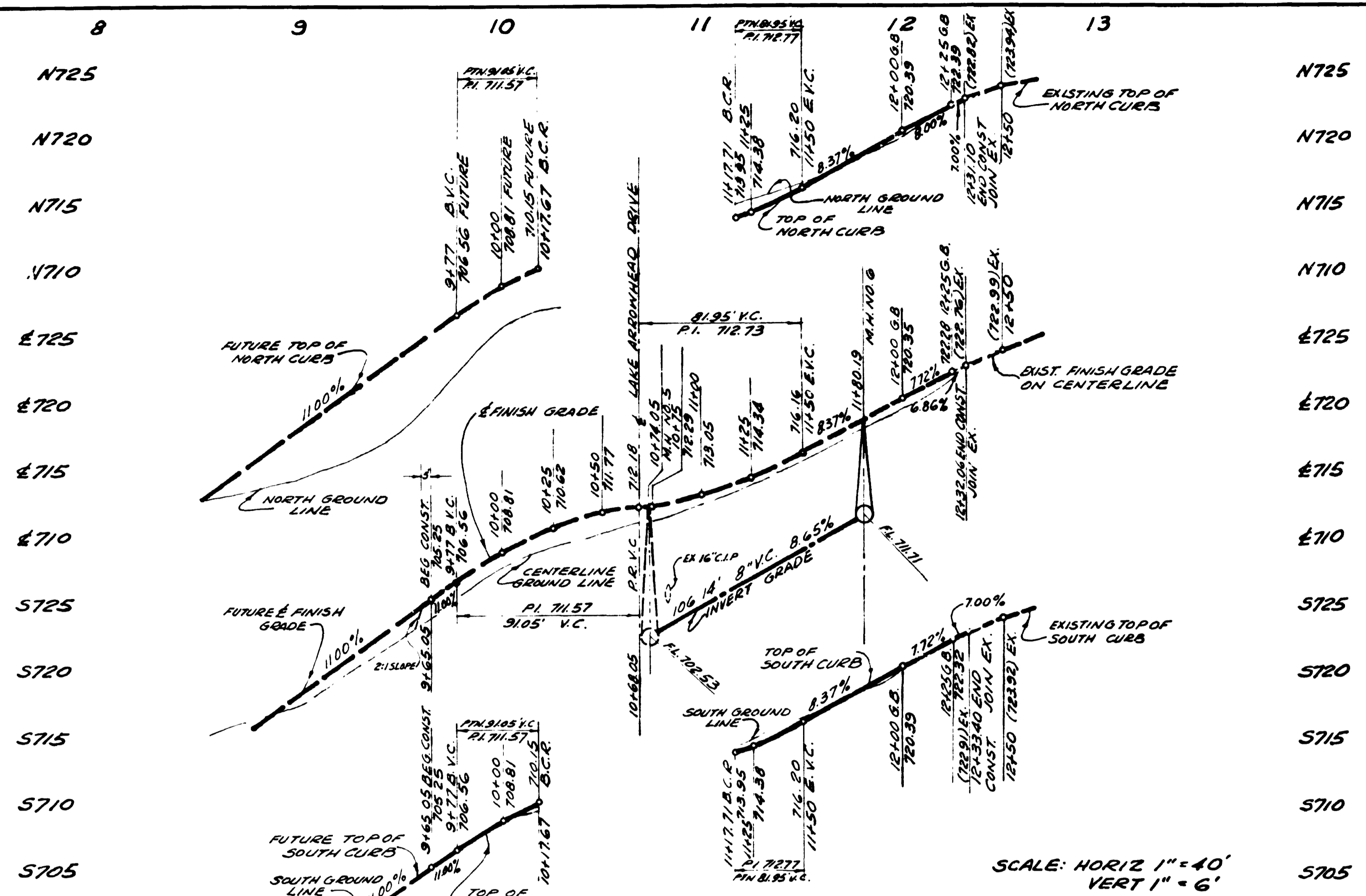
DESIGN ENGINEER: *AS BUILT*

228-1765

CONTRACTOR: *AS BUILT* DATE STARTED: 6.2.65  
 SUPERVISOR: *AS BUILT* DATE COMPLETED: 5.2.70

13073-2 - D

**AS BUILT**

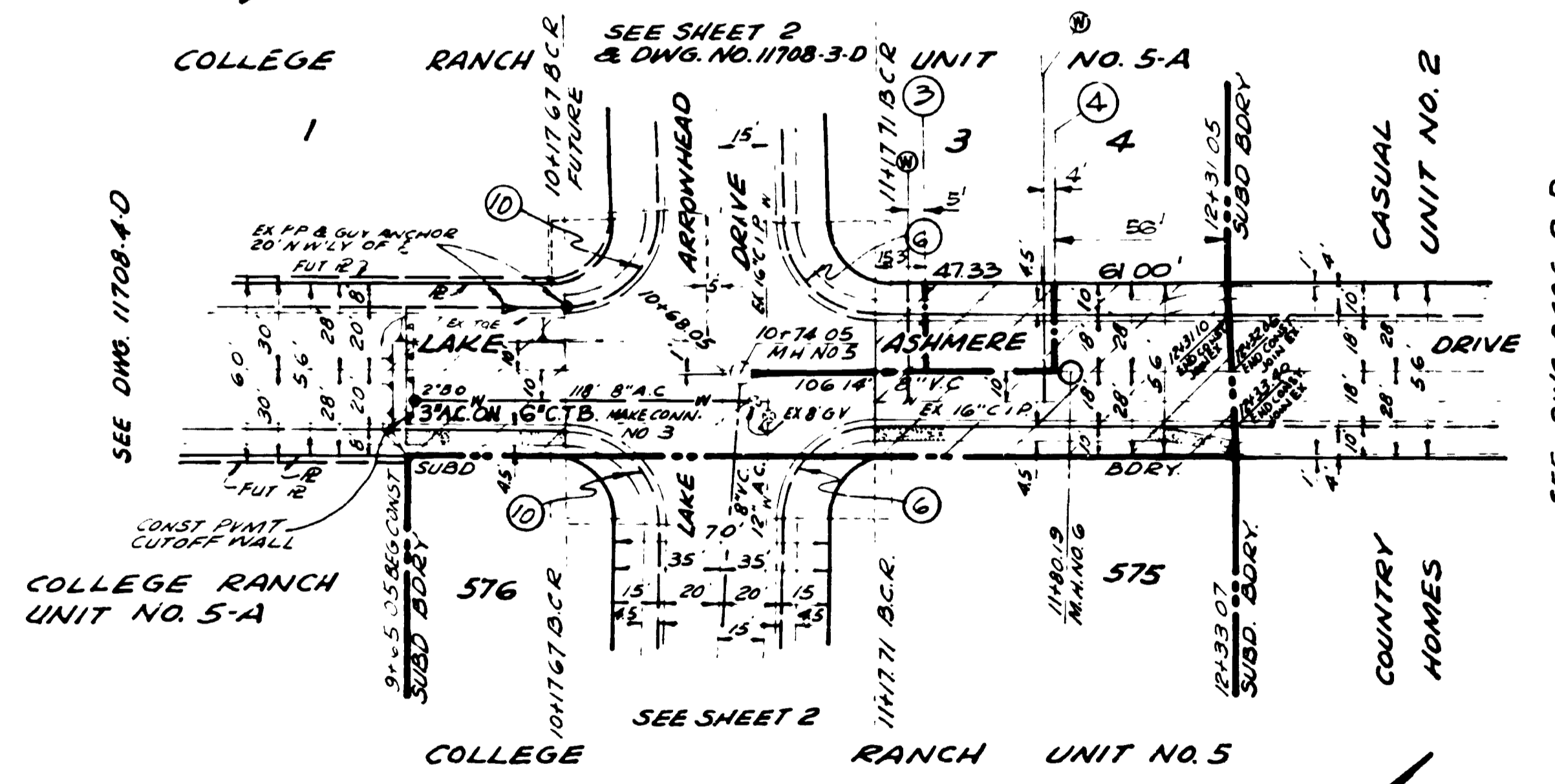


**CURB RETURNS AT LAKE ARROWHEAD DRIVE & LAKE ASHMERE DRIVE**  
 SCALE HORIZ 1"=20'  
 VERT 1"=3'  
 NOTE: SEE SHEET 2 FOR S.E. & S.W. RETURNS

SCALE: HORIZ 1"=40'  
 VERT 1"=6'

**PROFILES OF LAKE ASHMERE DRIVE**

CURVE DATA				
NO	Δ	R	L	T
①	88° 11' 49"	30	46.70'	29.58'
②	90° 51' 42"	30	47.58'	30.45'



SCALE: 1"=40'

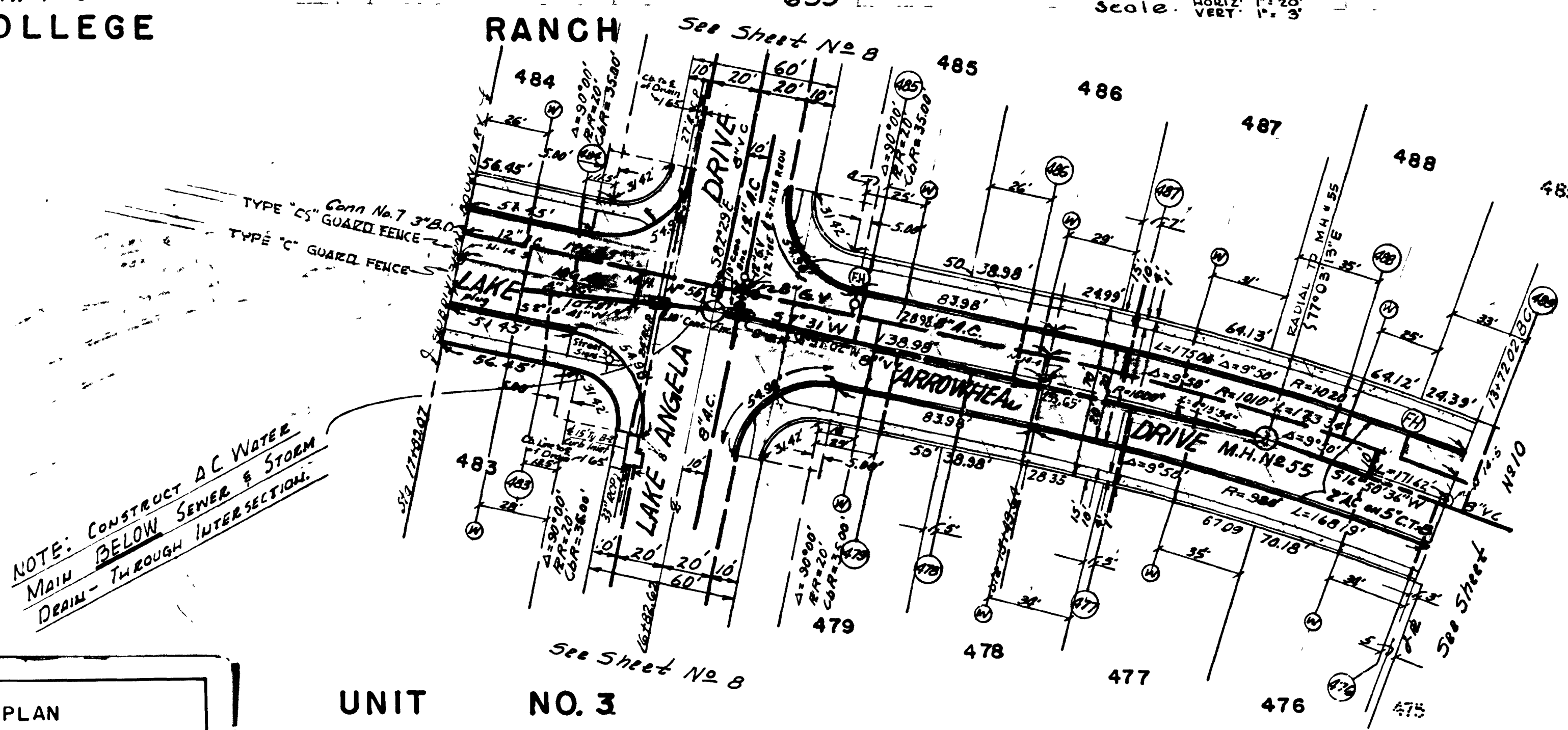
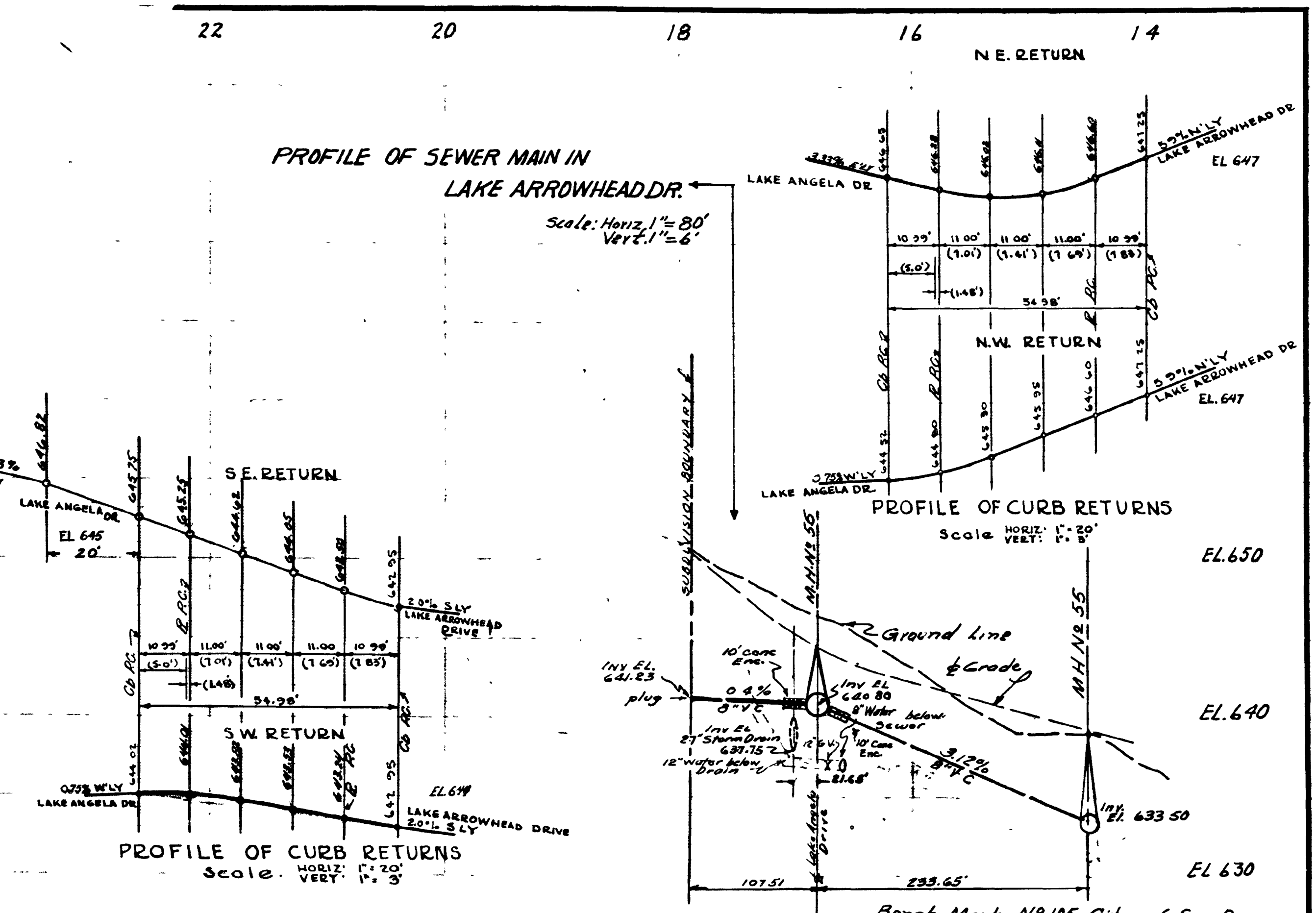
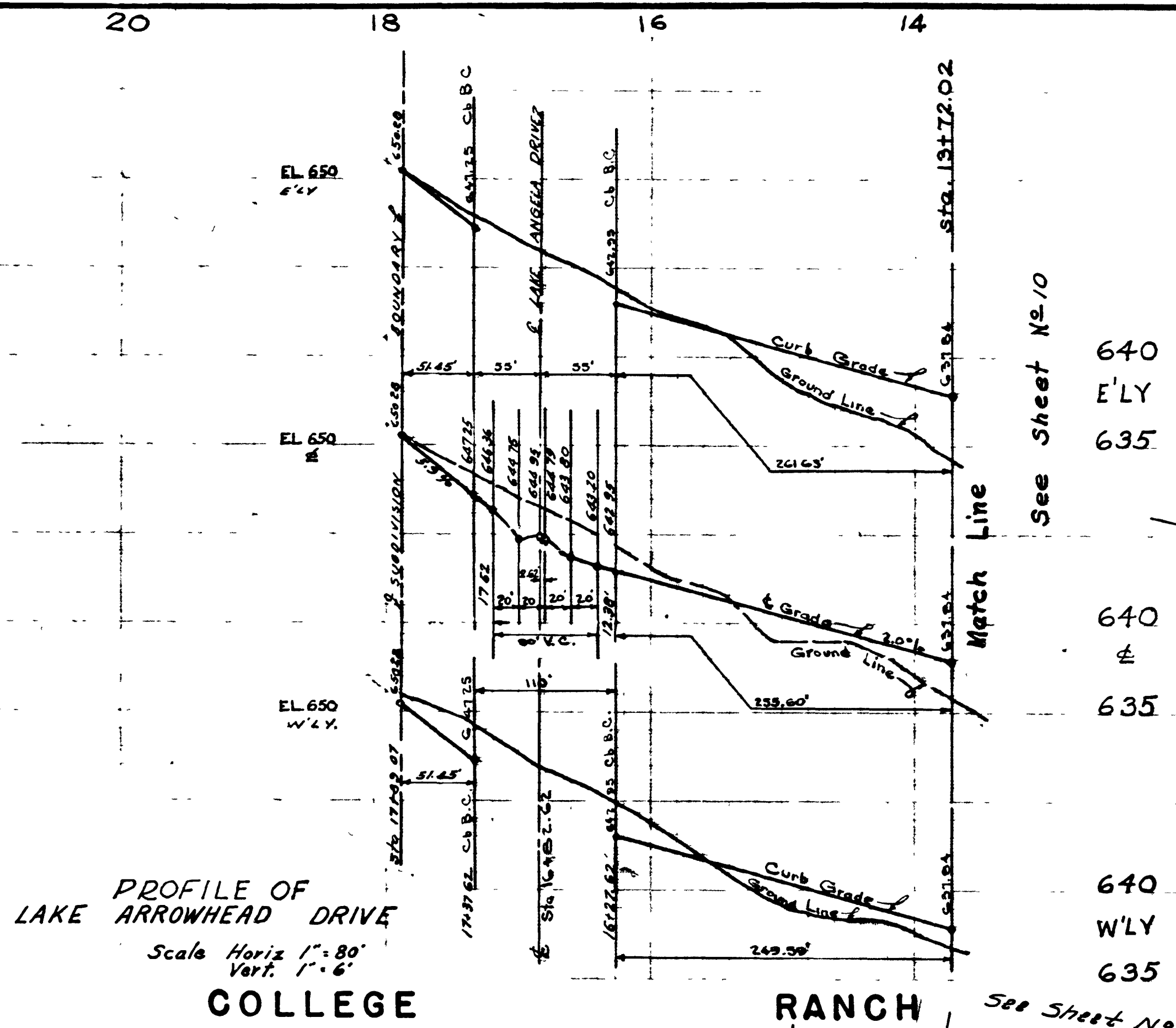
PRIVATE CONTRACT  
 ENGINEER OF WORK: [Signature] R.E. 10410  
 TECHNOLOGICAL ENGINEERING CORP

PLANS FOR THE IMPROVEMENT OF LAKE ASHMERE DRIVE ADJACENT TO COLLEGE RANCH UNIT NO. 5

APPROVALS	
DEPARTMENTAL	ENG. DEPT. DIVISION OR SECTION
PLANNING	CONST. INSPECTION
PROPERTY	ELECTRICAL
PUBLIC WORKS	FIELD CHECK
RECREATION	SEWERAGE AND DRAINAGE
UTILITIES	STREETS
STRUCTURAL	MONUMENTS
TRAFFIC	PARKS
WATER	SEWERAGE
	STREET ACTIONS

CITY OF SAN DIEGO, CALIFORNIA		W.O. NO. 78001
ENGINEERING DEPARTMENT		7/1 NO. 07 26 5
SHEET 5 OF 5 SHEETS		
DESCRIPTION	BY	APPROVED DATE
ORIGINAL	AS L.	
AS BUILT	[Signature]	
228-1765		
13073-5 -D		

**AS BUILT**



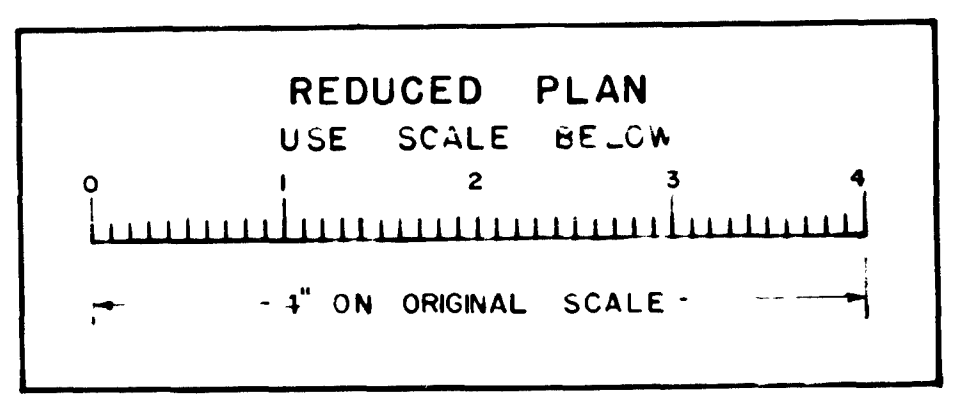
Bench Mark No. 105 City of San Diego  
Monument S.E. Corner Ex-Mission Lot 89 Elev. 64.06  
See C.B. 2373-29  
B.M. B2390-3

Scale: 1"=40'

ADD TO CONTOUR MEAN SEA LEVEL

PRIVATE CONTRACT ENGINEER OF WORK *J.A. Patterson* RE.10410

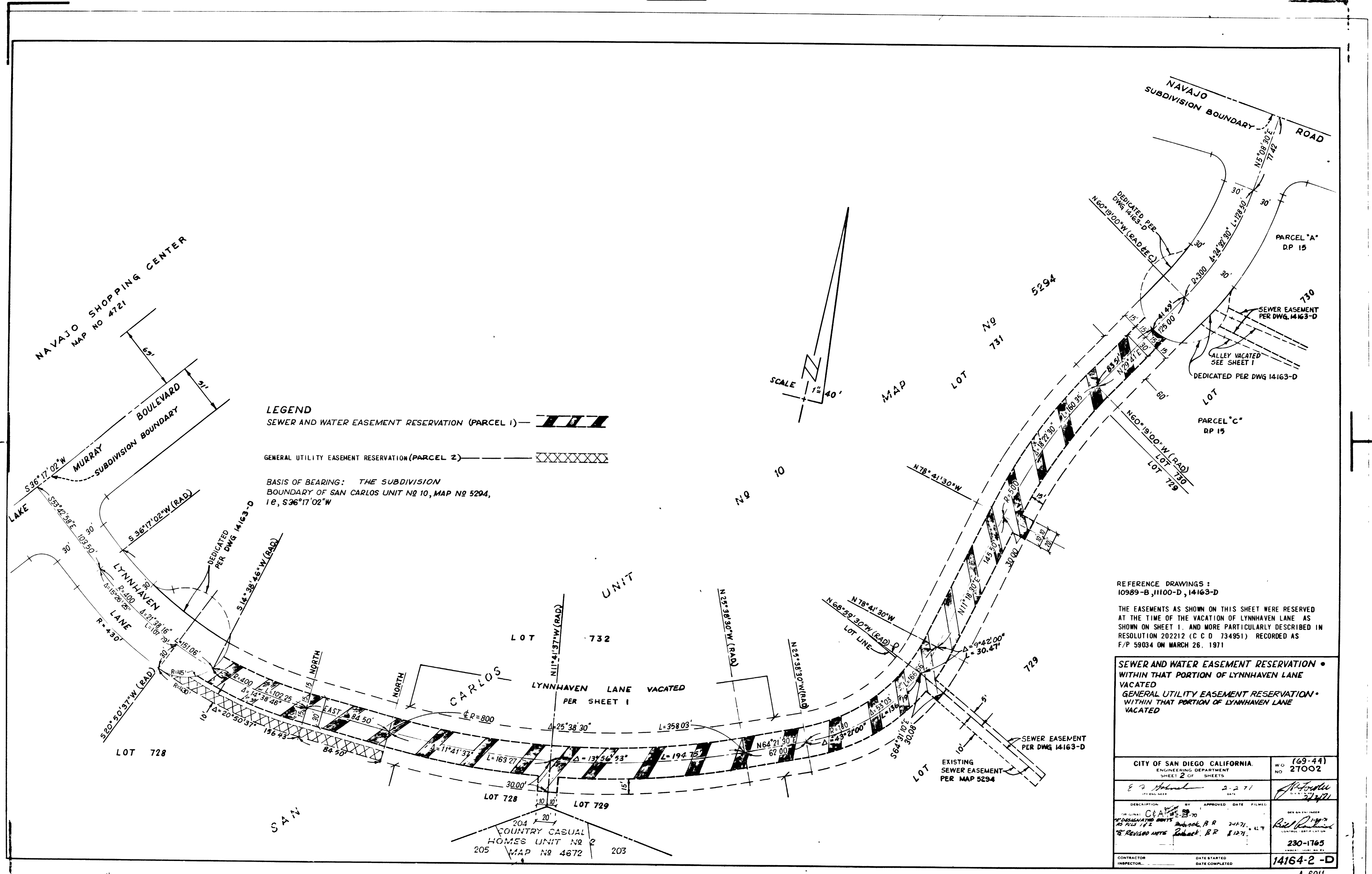
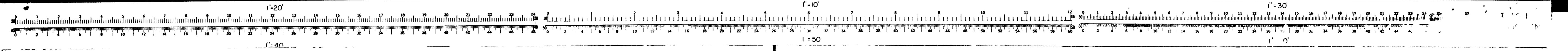
11	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12
<b>LAKE ARROWHEAD DRIVE</b>		
<b>COLLEGE RANCH UNIT NO. 3</b>		
APPROVED <i>E. F. Johnson</i> CITY ENGINEER	DATE 12/18/58	SCALE As Noted
DRAWN BY FILED BY	CHECKED BY FILED BY	DRAWING NUMBER 14255-L



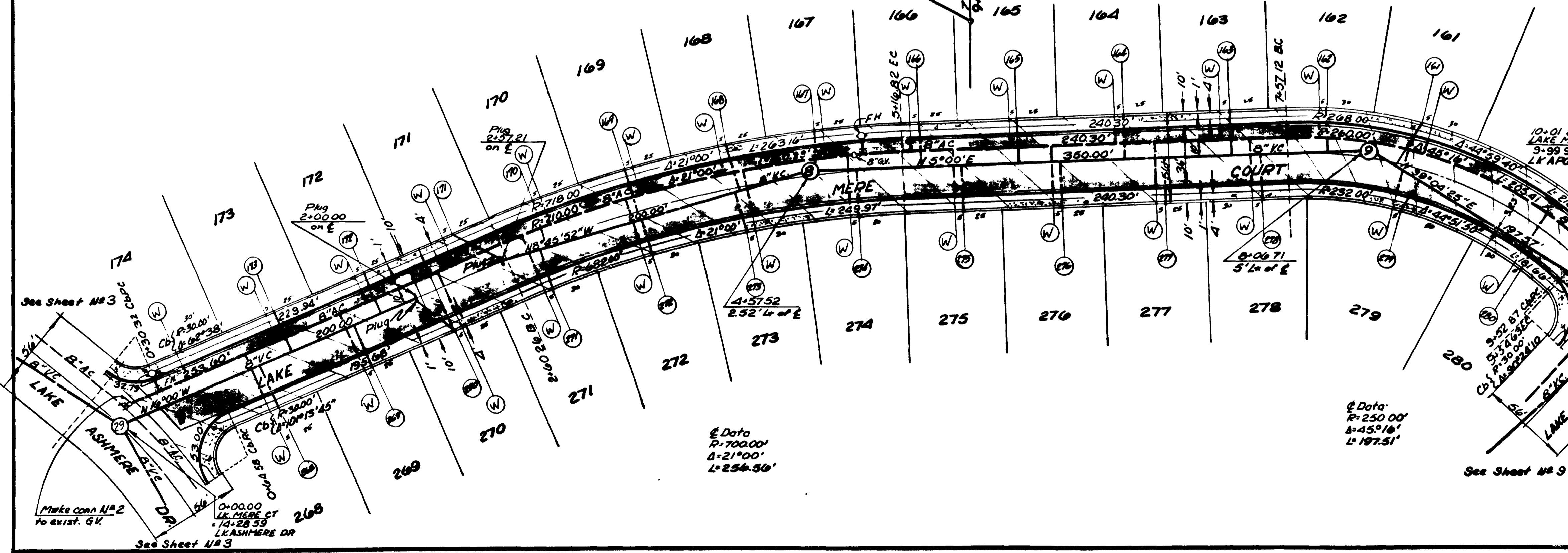
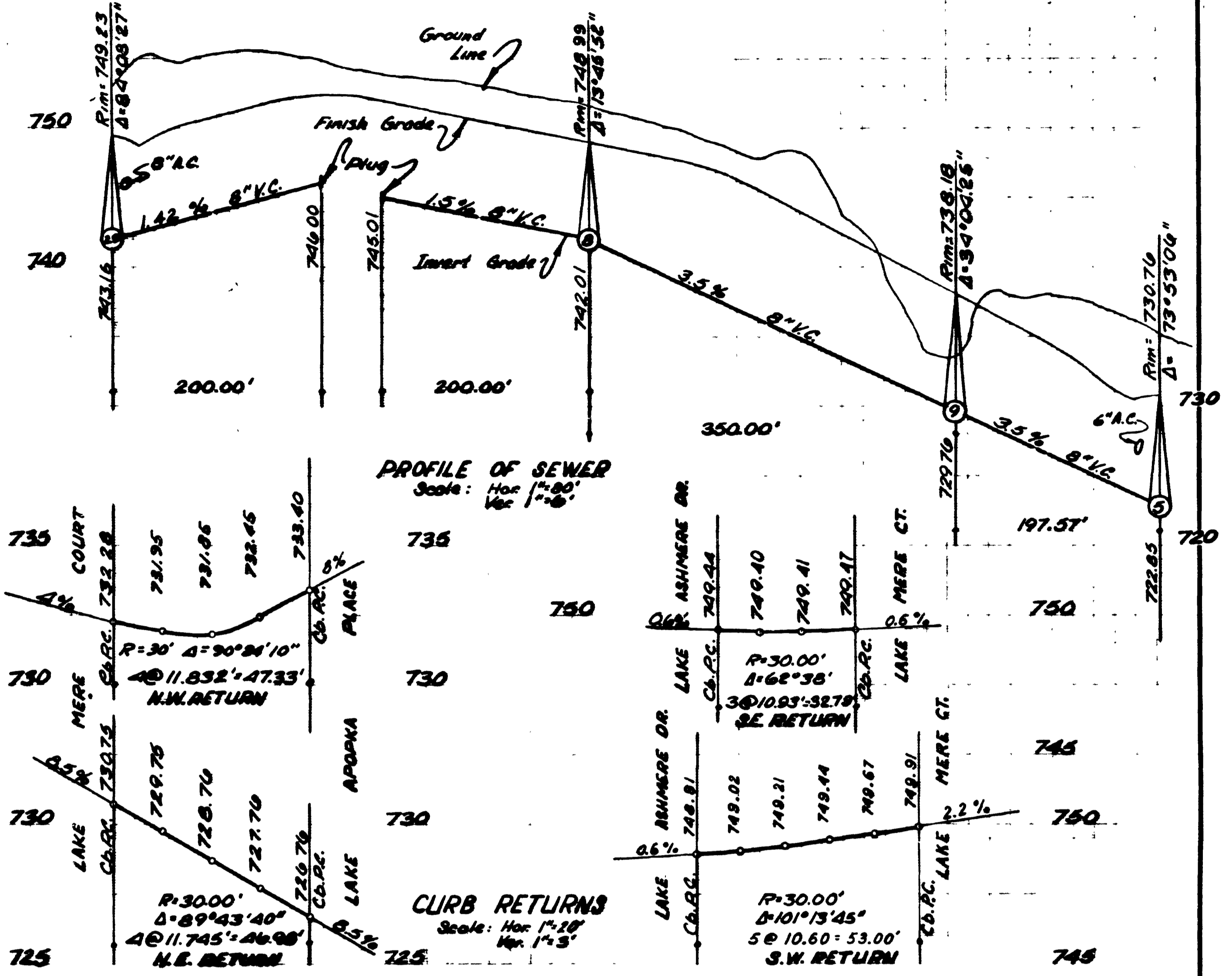
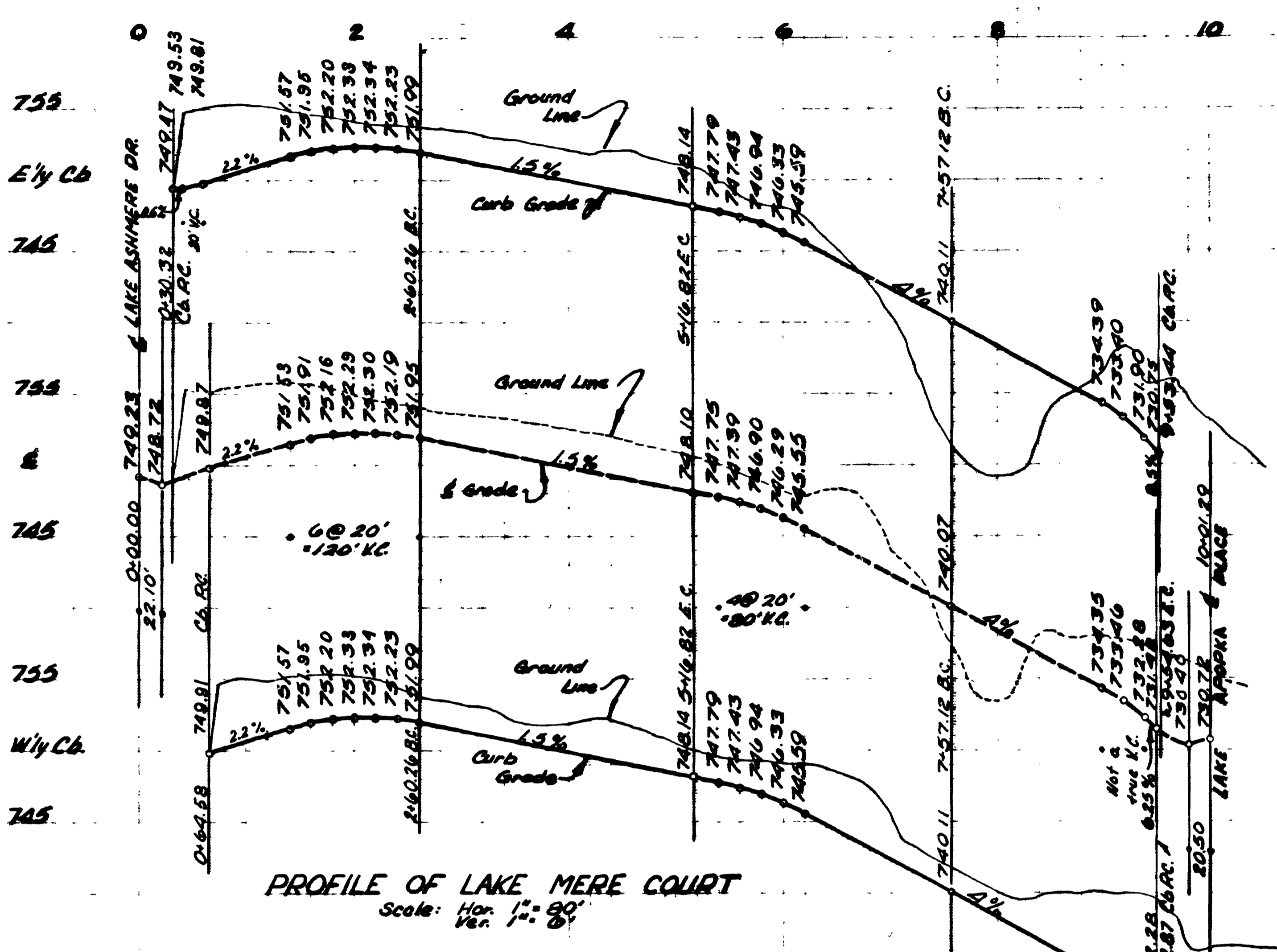
Revised To As Built Sept 25, 1959

CONTRACTOR DENNIS CONST. CO	INSPECTOR BIRDSELL
DATE STARTED 11-29-58	REVISION As Built 10-22-59
DATE COMPLETED 8-28-59	

Approved By \_\_\_\_\_ Date \_\_\_\_\_







ENGINEER OF WORK: **C. W. McGRATH**

**COUNTRY CASUAL HOMES UNIT NO 2**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT

W. D. 76396

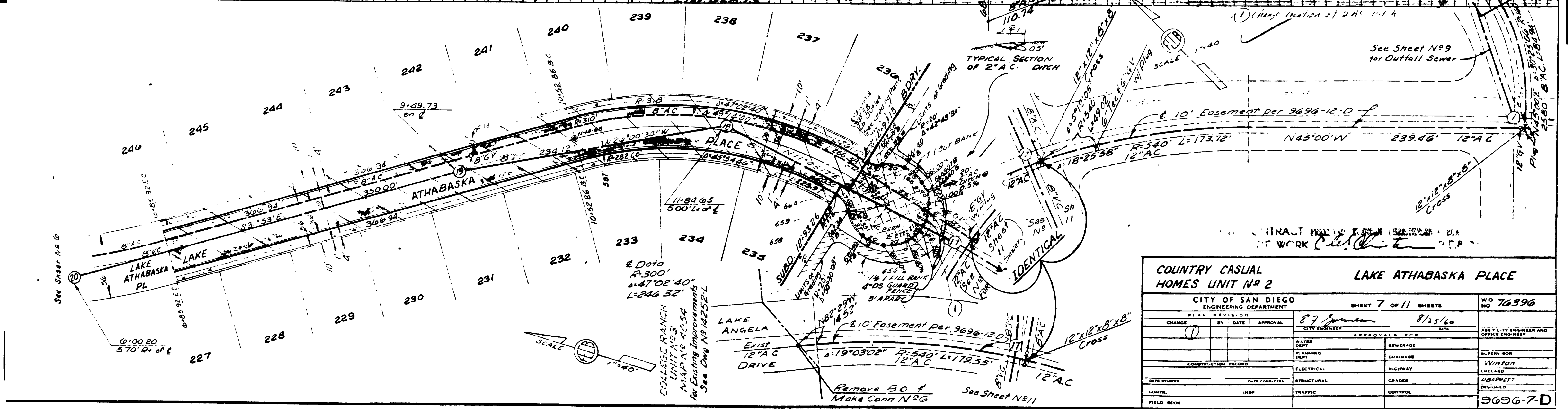
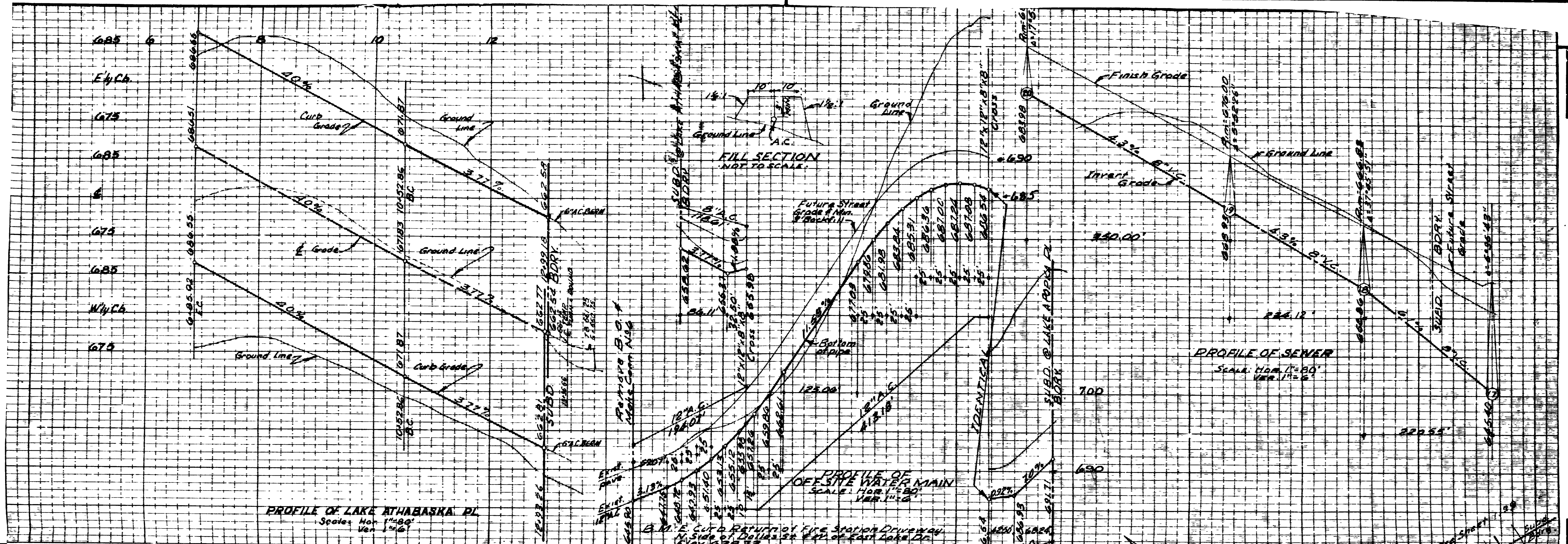
CHANGE	BY	DATE	APPROVAL	APPROVALS FOR
As Built	DM	8/15/60		NEVERAGE
				DRAINAGE
				HIGHWAY
				GRADES
				CONTROL

DESIGNED: **PRAPETT**

CONTR. **C.W. McGrath** Insp. **H.Mills**

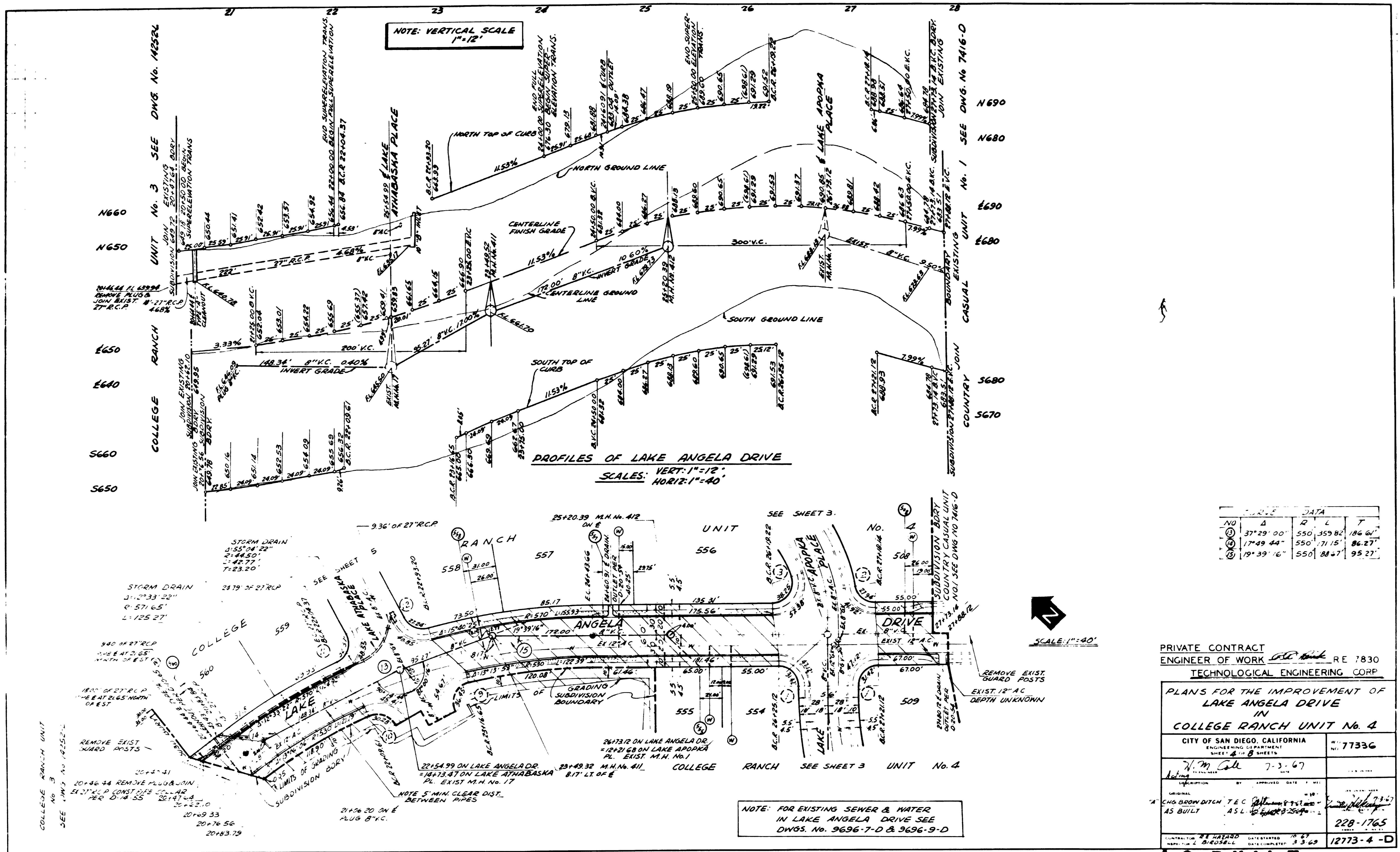
TRAFFIC CONTROL

9696-10-D



COUNTRY CASUAL		LAKE ATHABASKA PLACE	
CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 7 OF 11 SHEETS	WO NO 76396
CHANGE	BY DATE APPROVAL	CITY ENGINEER	APPROVALS FOR CITY
1		E. J. Johnson	8/15/60
CONSTRUCTION RECORD		WATER	SEWERAGE
DATE STARTED		PLANNING DEPT	CHINAIDE
DATE COMPLETED		ELECTRICAL	HIGHWAY
CONTROL	INSPECTION	STRUCTURAL	GRADES
FIELD BOOK		TRAFFIC	CONTROL
		DESIGNED	3696-7-D
			1967

THE TRACING OF THIS SHEET IS MISSING. THIS PRINT IS "AS BUILT" PER INSPECTOR.



NO	Δ	R	L	T
①	37°29'00"	550	359.82	106.61
②	17°49'44"	550	171.15	86.27
③	19°39'16"	550	88.27	95.27

PRIVATE CONTRACT  
 ENGINEER OF WORK *R.D. Bink* RE 7830  
 TECHNOLOGICAL ENGINEERING CORP.

PLANS FOR THE IMPROVEMENT OF  
 LAKE ANGELA DRIVE  
 IN  
 COLLEGE RANCH UNIT No. 4

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING DEPARTMENT  
 SHEET 4 OF 8 SHEETS

W.M. Cole 7-3-67

AS BUILT

228-1765

12773-4-D

**AS BUILT**

NOTE: FOR EXISTING SEWER & WATER  
 IN LAKE ANGELA DRIVE SEE  
 DWGS. No. 9696-7-D & 9696-9-D

COLLEGE RANCH UNIT  
 No. 3  
 SEE DWG. No. 1252-2

STORM DRAIN  
 1:55'04" 22"  
 2:44'50"  
 3:42'77"  
 4:23'20"

STORM DRAIN  
 24.79 OF 27" R.C.P.  
 1:57'65"  
 2:125'27"

940 OF 27" R.C.P.  
 1:57'65"  
 WIDTH OF R.C.P.

REMOVE EXIST.  
 GUARD POSTS

20+46.44 REMOVE PLUG & JOIN  
 54.27' K.C. & CONST. FILE 51-1-42  
 PER DIV. 55 28147.44  
 20+99.33  
 20+76.56  
 20+83.79

21+56.20 ON E  
 PLUG 8" V.C.

STORM DRAIN  
 1:55'04" 22"  
 2:44'50"  
 3:42'77"  
 4:23'20"

STORM DRAIN  
 24.79 OF 27" R.C.P.  
 1:57'65"  
 2:125'27"

940 OF 27" R.C.P.  
 1:57'65"  
 WIDTH OF R.C.P.

REMOVE EXIST.  
 GUARD POSTS

20+46.44 REMOVE PLUG & JOIN  
 54.27' K.C. & CONST. FILE 51-1-42  
 PER DIV. 55 28147.44  
 20+99.33  
 20+76.56  
 20+83.79

21+56.20 ON E  
 PLUG 8" V.C.

STORM DRAIN  
 1:55'04" 22"  
 2:44'50"  
 3:42'77"  
 4:23'20"

STORM DRAIN  
 24.79 OF 27" R.C.P.  
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 PER DIV. 55 28147.44  
 20+99.33  
 20+76.56  
 20+83.79

21+56.20 ON E  
 PLUG 8" V.C.

STORM DRAIN  
 1:55'04" 22"  
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 PER DIV. 55 28147.44  
 20+99.33  
 20+76.56  
 20+83.79

21+56.20 ON E  
 PLUG 8" V.C.

STORM DRAIN  
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 2:44'50"  
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 4:23'20"

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940 OF 27" R.C.P.  
 1:57'65"  
 WIDTH OF R.C.P.

REMOVE EXIST.  
 GUARD POSTS

20+46.44 REMOVE PLUG & JOIN  
 54.27' K.C. & CONST. FILE 51-1-42  
 PER DIV. 55 28147.44  
 20+99.33  
 20+76.56  
 20+83.79

21+56.20 ON E  
 PLUG 8" V.C.

STORM DRAIN  
 1:55'04" 22"  
 2:44'50"  
 3:42'77"  
 4:23'20"

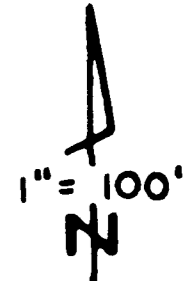
STORM DRAIN  
 24.79 OF 27" R.C.P.  
 1:57'65"  
 2:125'27"

940 OF 27" R.C.P.  
 1:57'65"  
 WIDTH OF R.C.P.

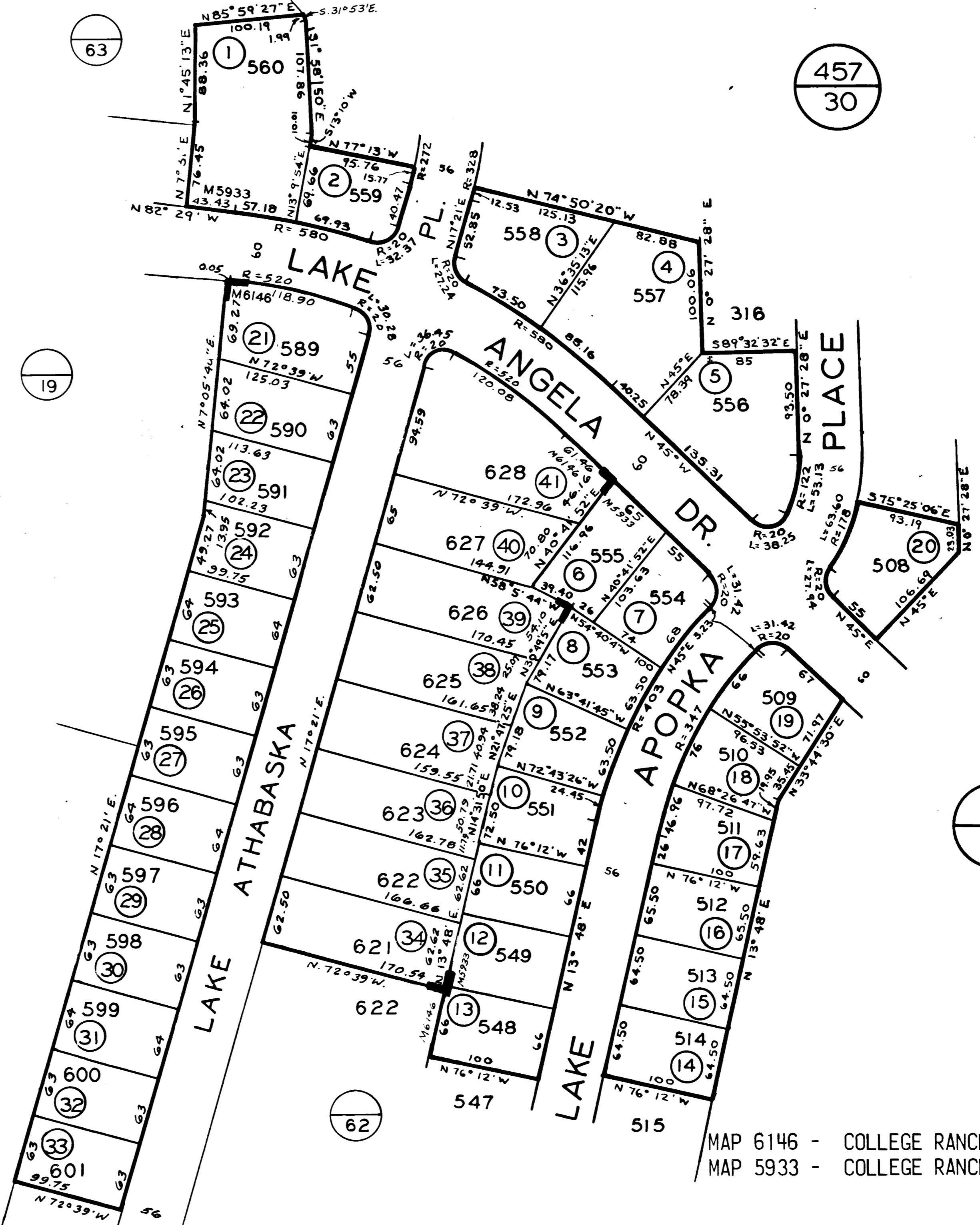
REMOVE EXIST.  
 GUARD POSTS

20+46.44 REMOVE PLUG & JOIN  
 54.27' K.C. & CONST. FILE 51-1-42  
 PER DIV. 55 28147.44  
 20+99.33  
 20+76.56  
 20+83.79

21+56.20 ON E  
 PLUG 8" V.C.



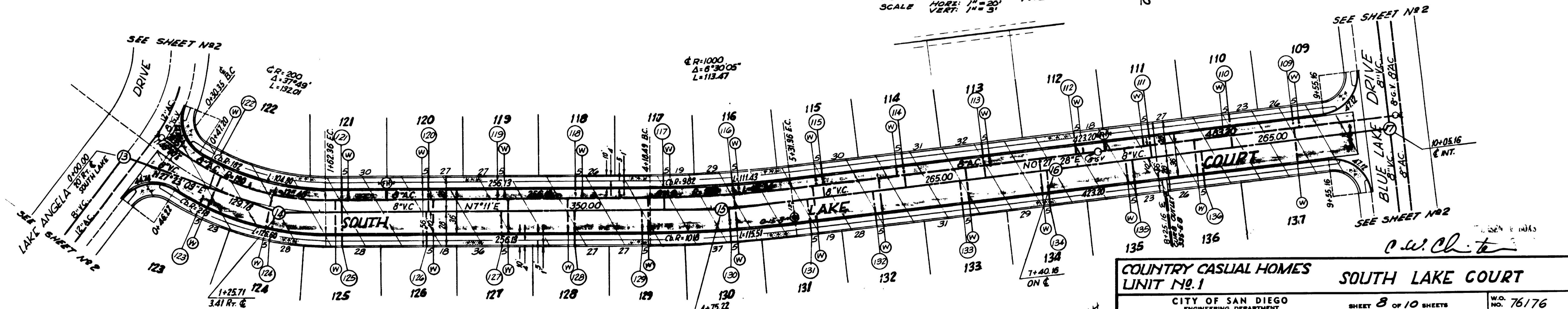
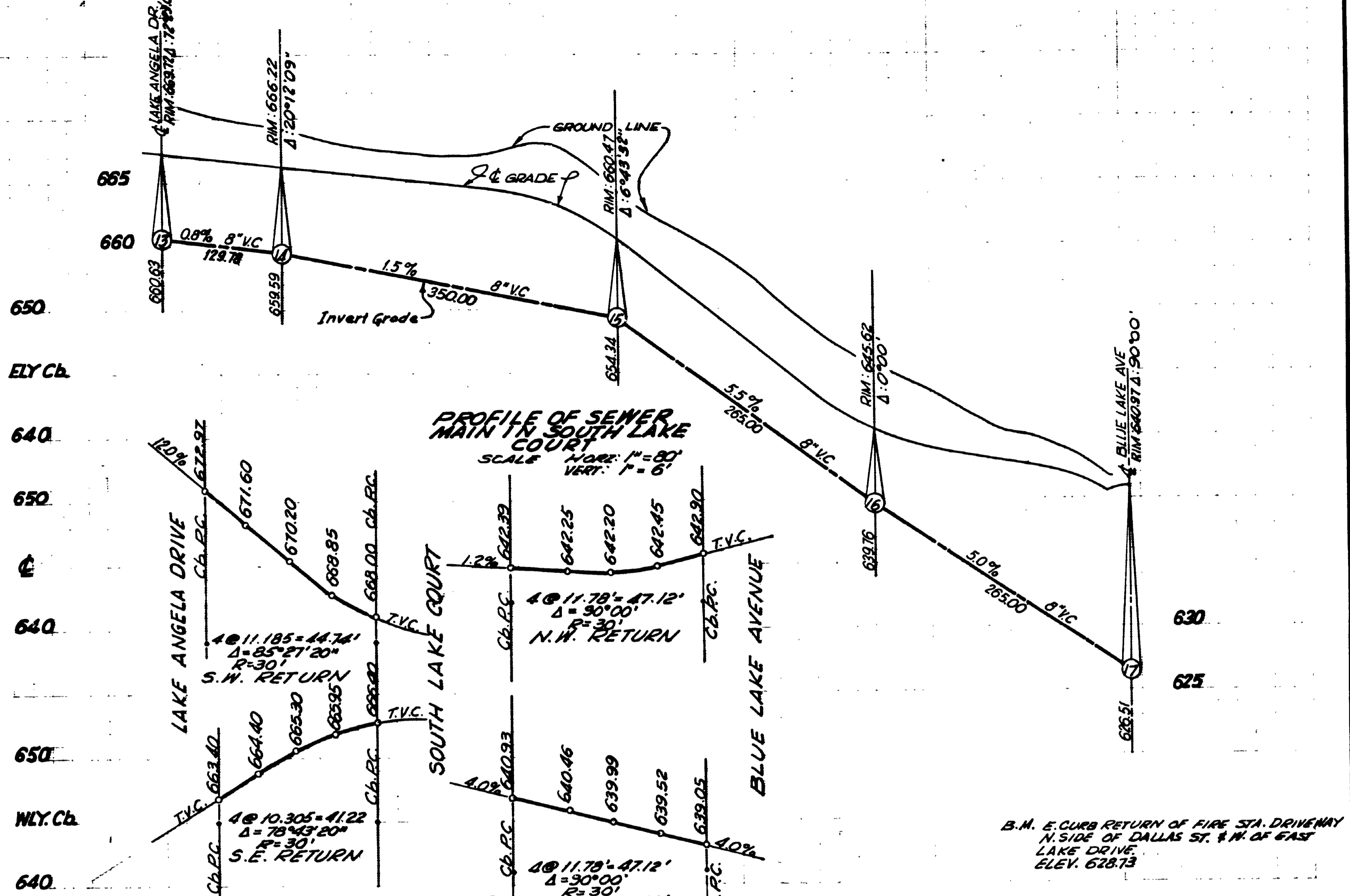
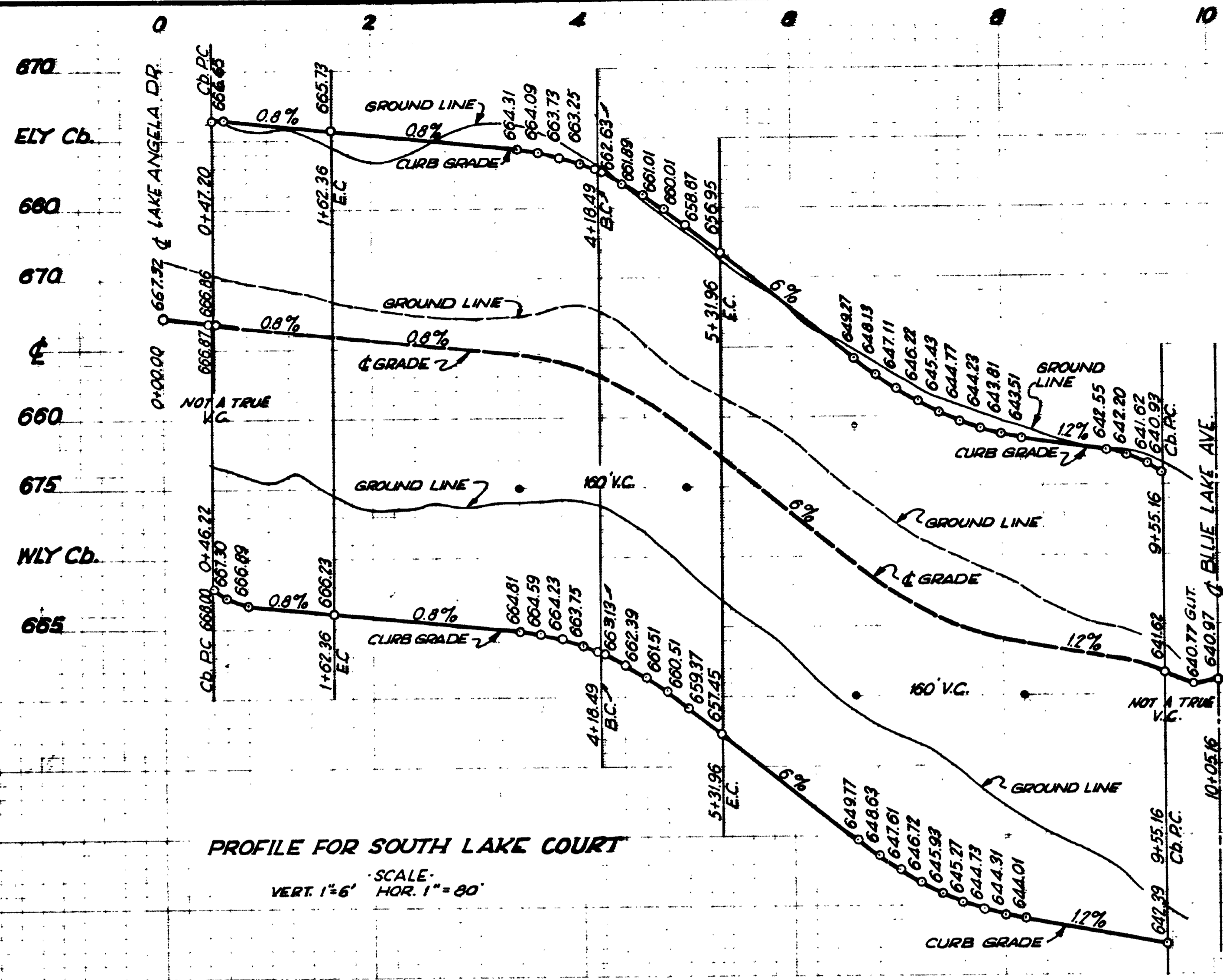
485-619



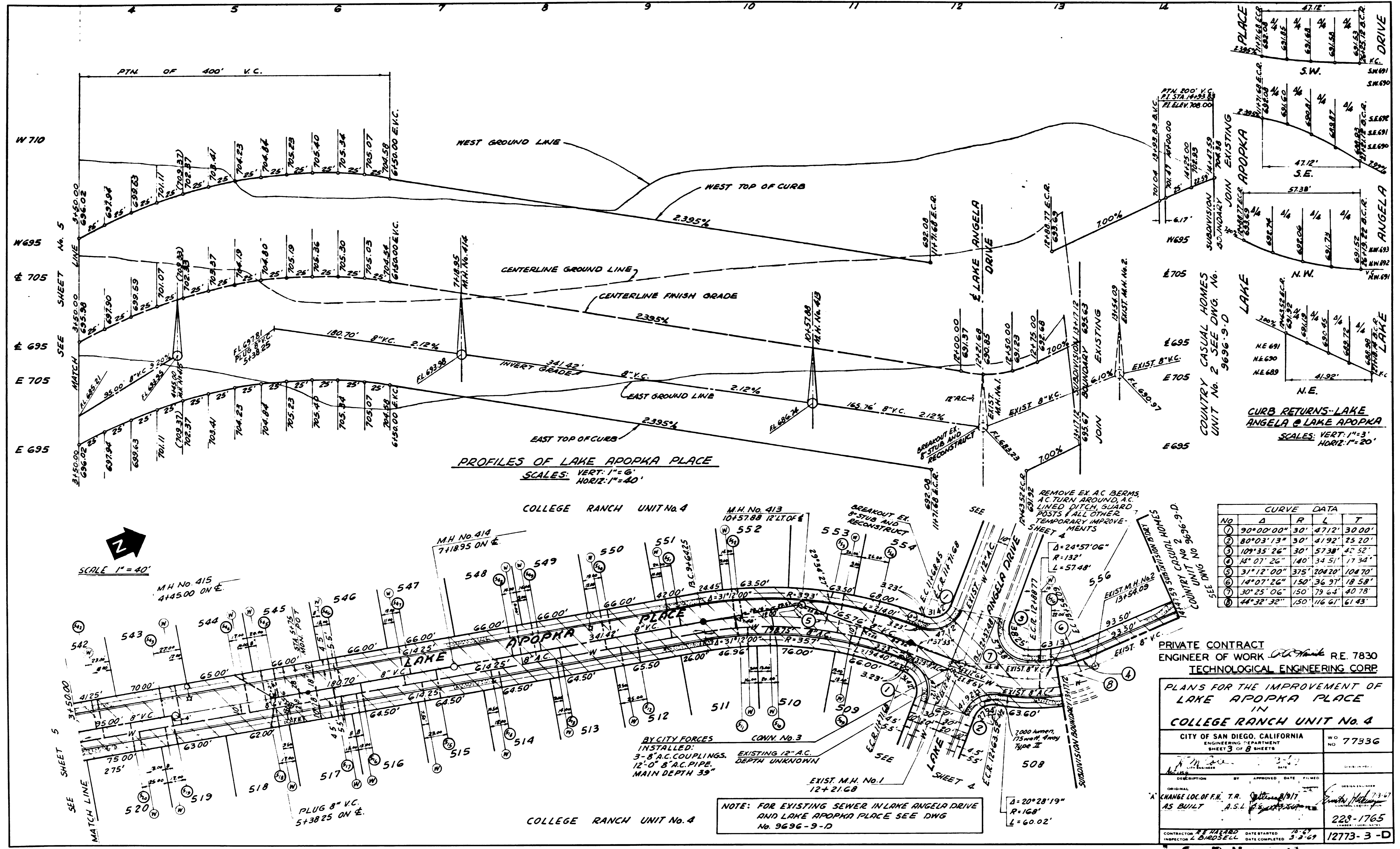
**CHANGES**

BLK	OLD	NEW	YR	CUT
		1-41	69	90

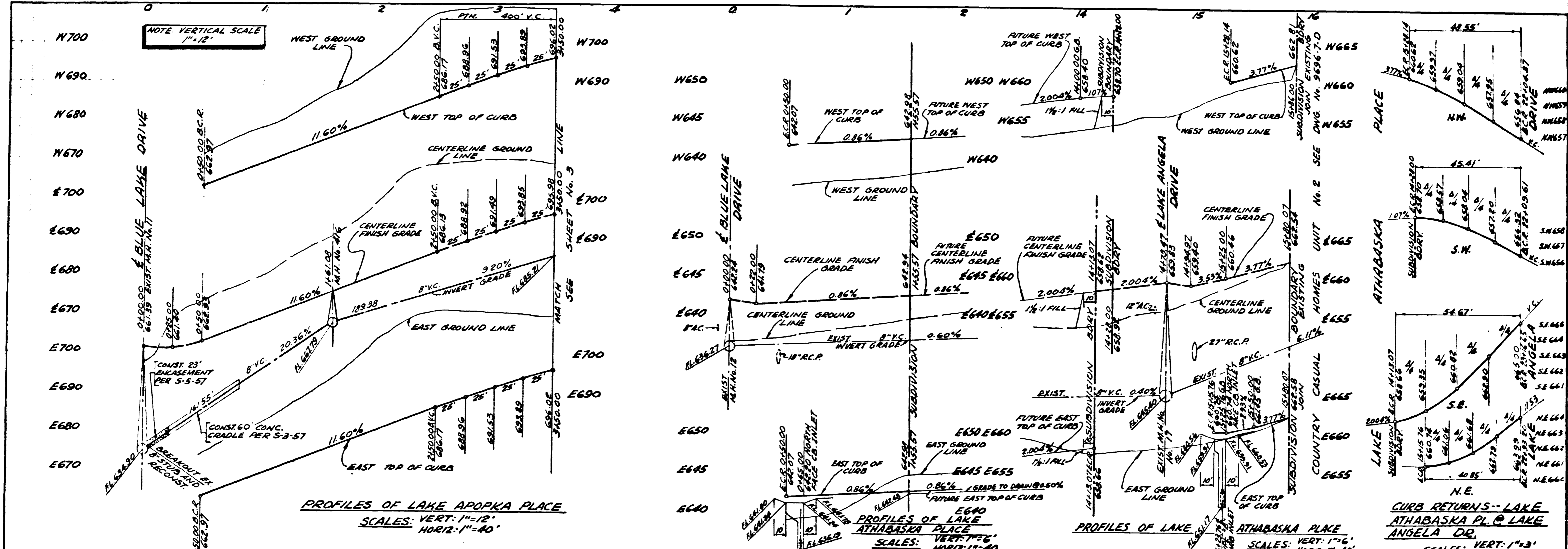
MAP 6146 - COLLEGE RANCH UNIT NO. 7  
 MAP 5933 - COLLEGE RANCH UNIT NO. 4



CITY OF SAN DIEGO ENGINEERING DEPARTMENT				SHEET 8 OF 10 SHEETS		W.D. NO. 76176
PLAN REVISION				CITY ENGINEER		DATE
CHANGE	BY	DATE	APPROVAL	CITY ENGINEER		DATE
AS BUILT	SG	8/18/60		APPROVALS FOR		
CONSTRUCTION RECORD				WATER DEPT.		SEWERAGE
DATE STARTED	DATE COMPLETED	STRUCTURAL		DRAINAGE		HIGHWAY
JULY 20 1959	JULY 20 1960	TRAFFIC		GRADES		CONTROL
CONTR. McGRATH				INSPECTION		DESIGNED
FIELD BOOK 14 E 15-N & O				SUPERVISOR		7421 D



**AS BUILT**



PROFILES OF LAKE APOPKA PLACE  
 SCALES: VERT: 1"=12"  
 HORIZ: 1"=40'

PROFILES OF LAKE  
 ATHABASKA PLACE  
 SCALES: VERT: 1"=6"  
 HORIZ: 1"=40'

PROFILES OF LAKE  
 ANGELA DR.  
 SCALES: VERT: 1"=3"  
 HORIZ: 1"=20'

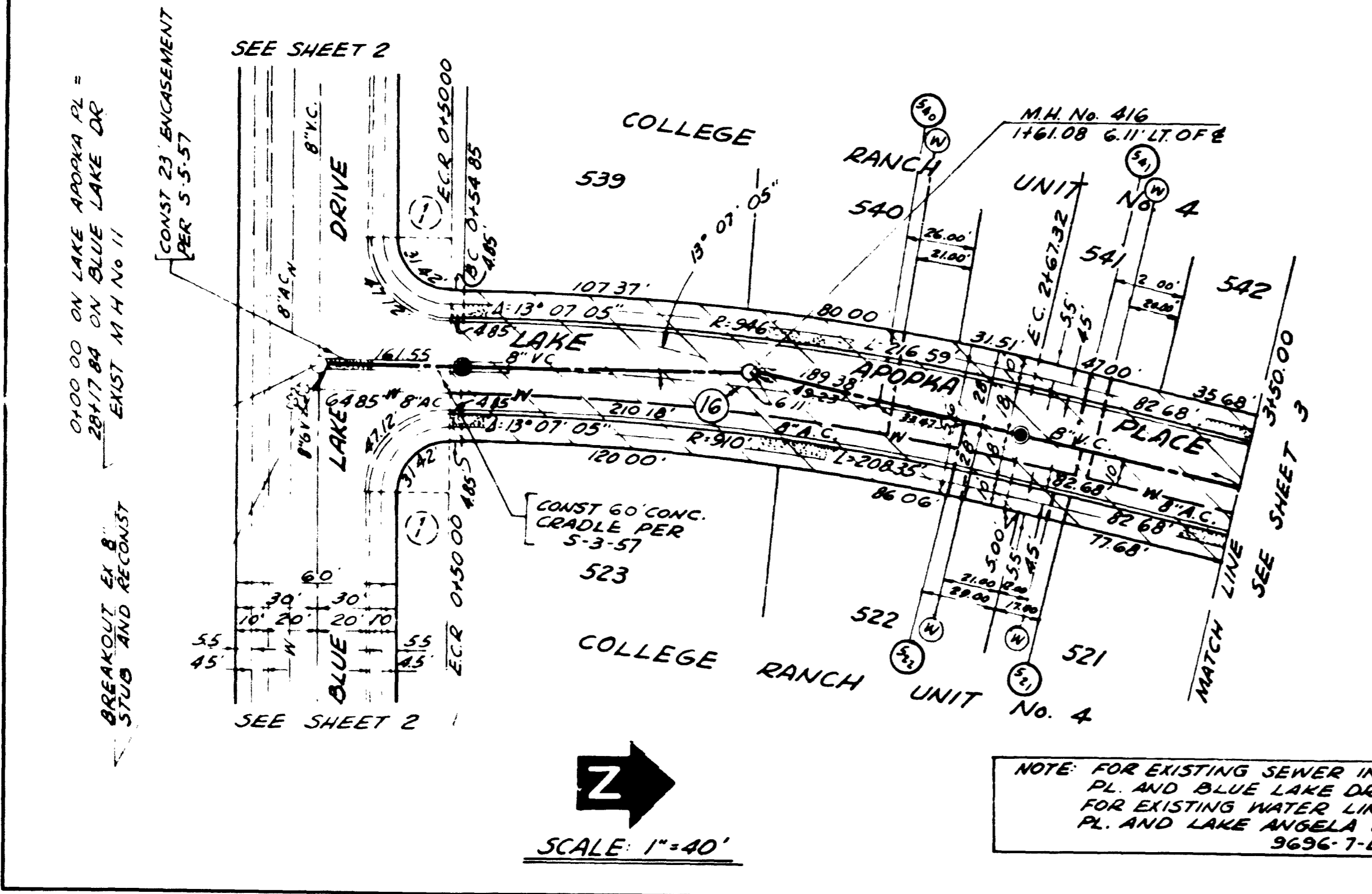
CURVE DATA				
No	Δ	R	L	T
1	104° 25' 07"	30	54.67'	38.09'
2	16° 43' 55"	30	45.41'	28.33'
3	92° 43' 22"	30	48.55'	31.46'
4	78° 01' 26"	30	40.85'	24.30'
5	13° 07' 05"	928	212.47'	106.70'
6	2° 11' 20"	300	11.46'	5.73'
7	3° 13' 17"	282	16.35'	8.18'
8	2° 11' 20"	318	12.15'	6.07'
9	1° 09' 18"	1058	21.33'	0.66'
10	1° 09' 18"	1076	21.65'	10.84'
11	1° 09' 18"	1040	20.96'	10.48'

PRIVATE CONTRACT  
 ENGINEER OF WORK *L.C. Hank* RE 7830  
 TECHNOLOGICAL ENGINEERING CORP.

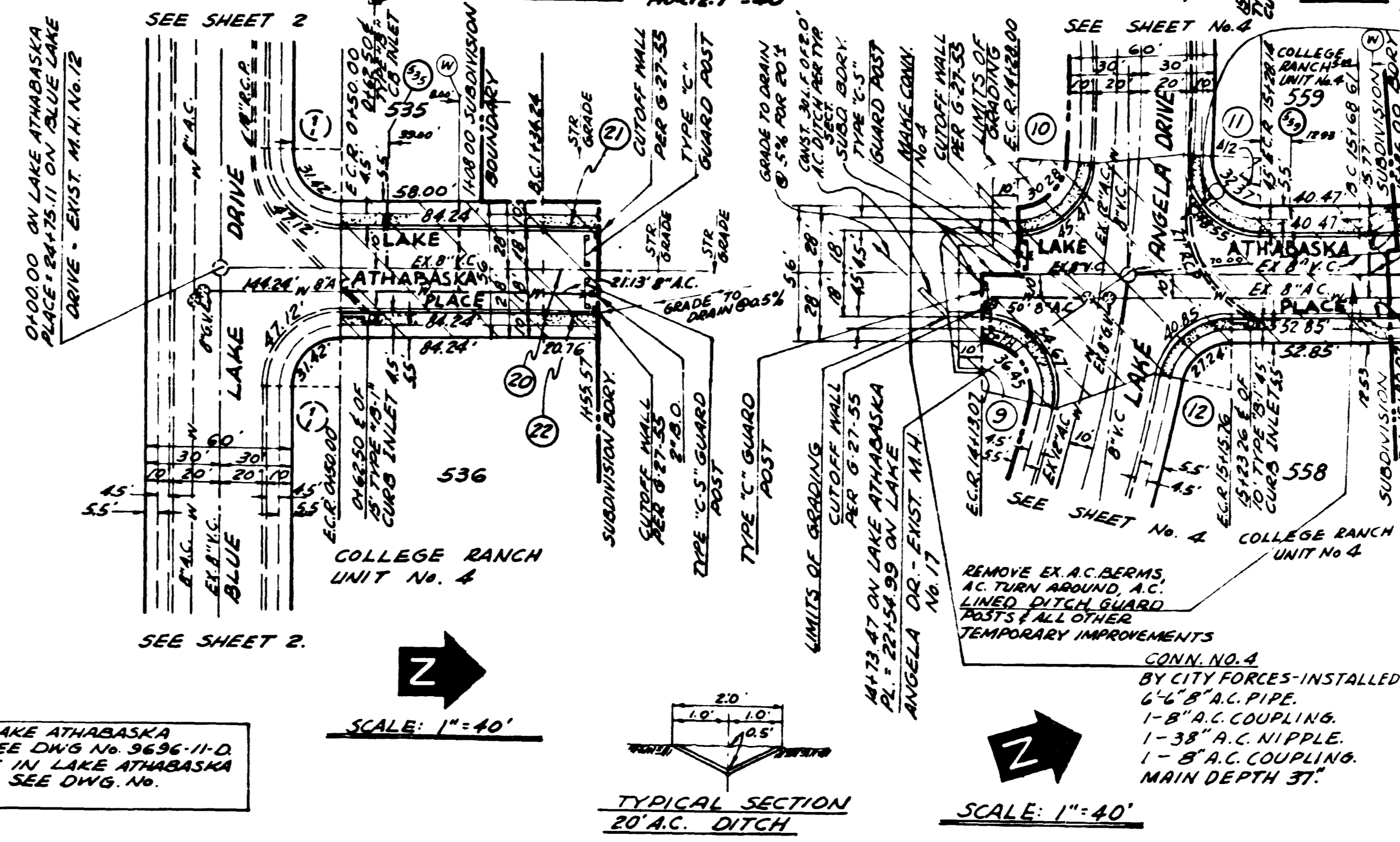
PLANS FOR THE IMPROVEMENT OF  
 LAKE APOPKA PLACE  
 AND  
 LAKE ATHABASKA PLACE IN  
 COLLEGE RANCH UNIT No. 4

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING DEPARTMENT  
 SHEET 5 OF 8 SHEETS  
 NO. 77336

DATE: 7-3-67  
 BY: *L.C. Hank*  
 APPROVED: *[Signature]*  
 ORIGINAL AS BUILT: *[Signature]*  
 228-1765  
 CONTRACTOR: REMAILED  
 INSPECTOR: L. BROSELL  
 DATE STARTED: 7-2-67  
 DATE COMPLETED: 3-3-67  
 12773-5-D



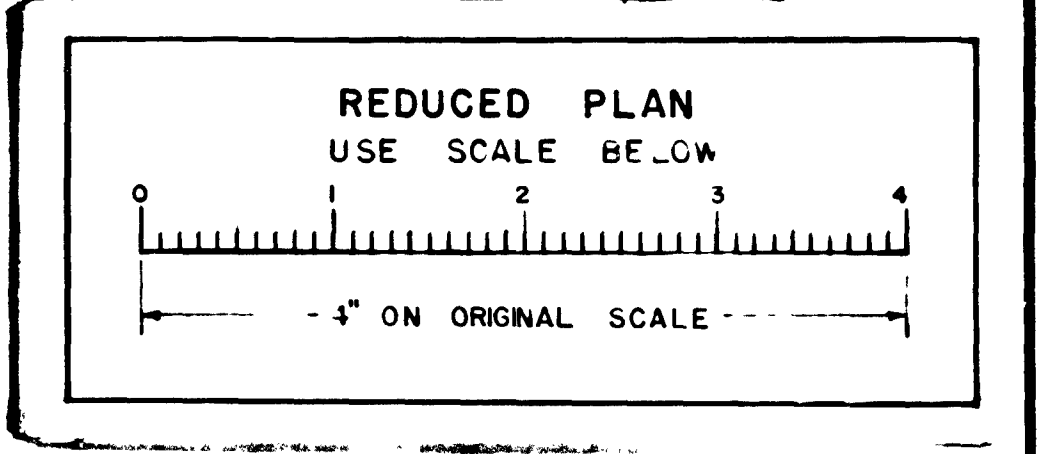
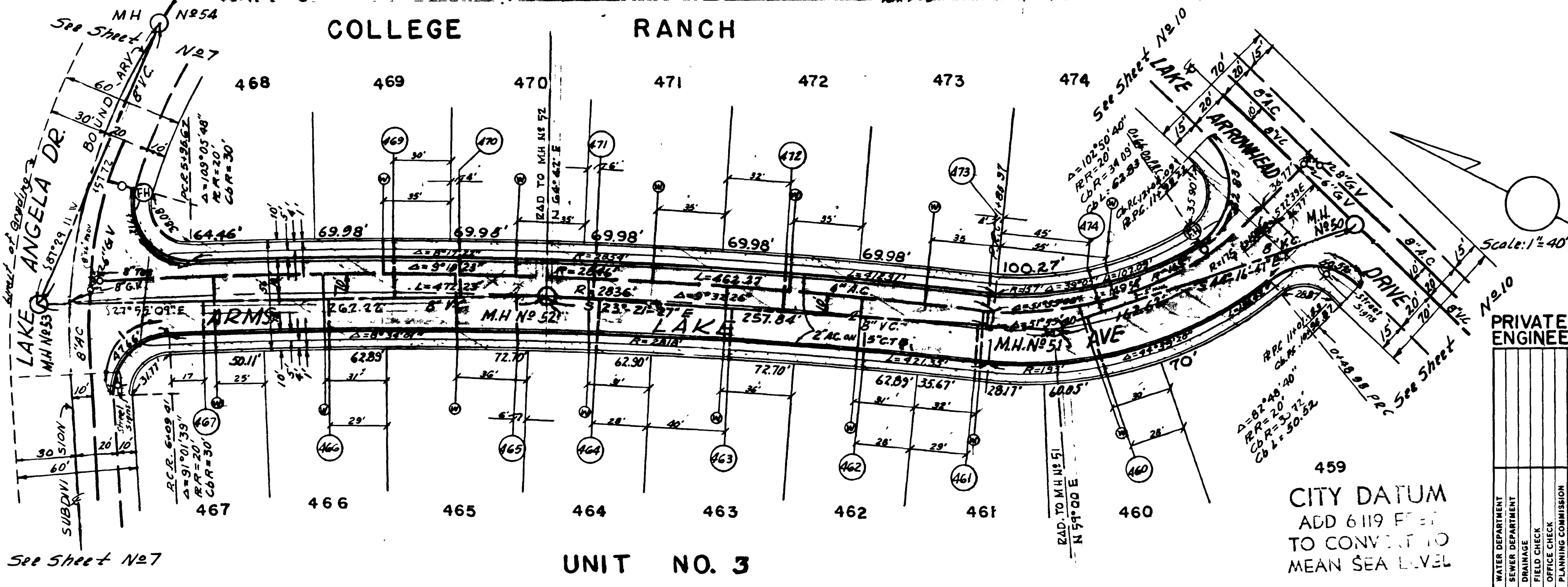
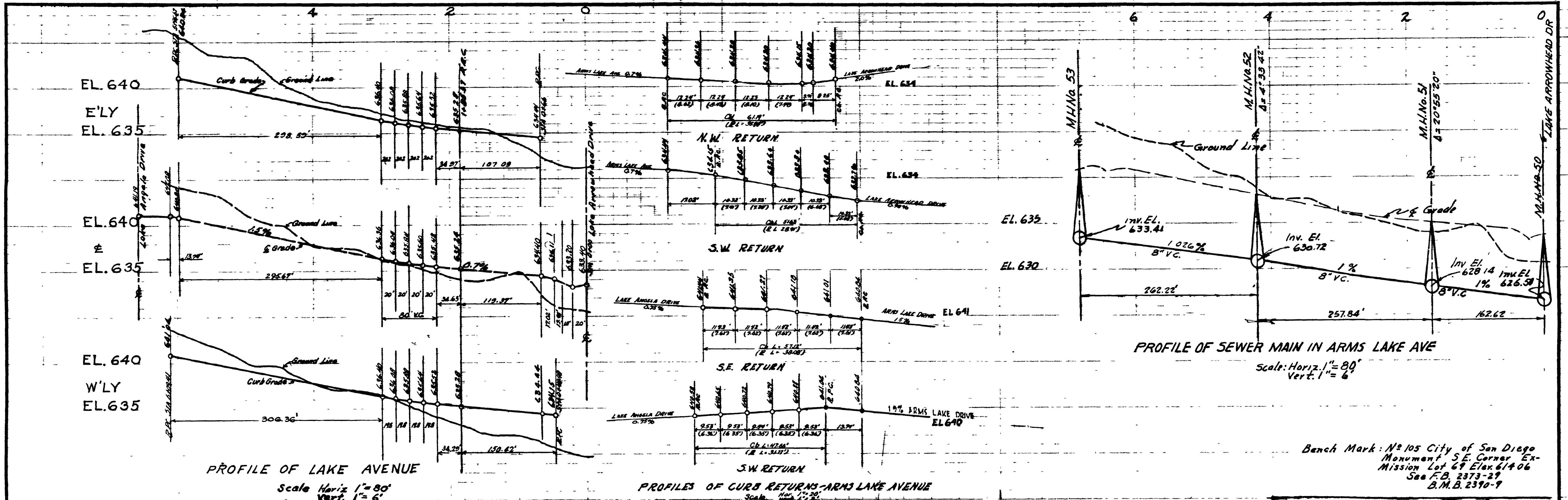
SCALE: 1"=40'



SCALE: 1"=40'

SCALE: 1"=40'

AS BUILT



PRIVATE CONTRACT ENGINEER OF WORK *J.A. Paltrow* RE 10410

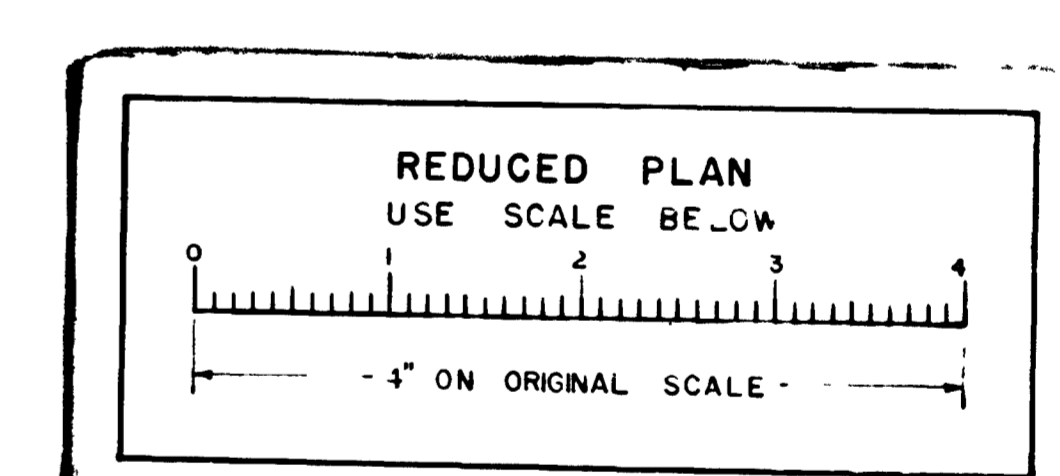
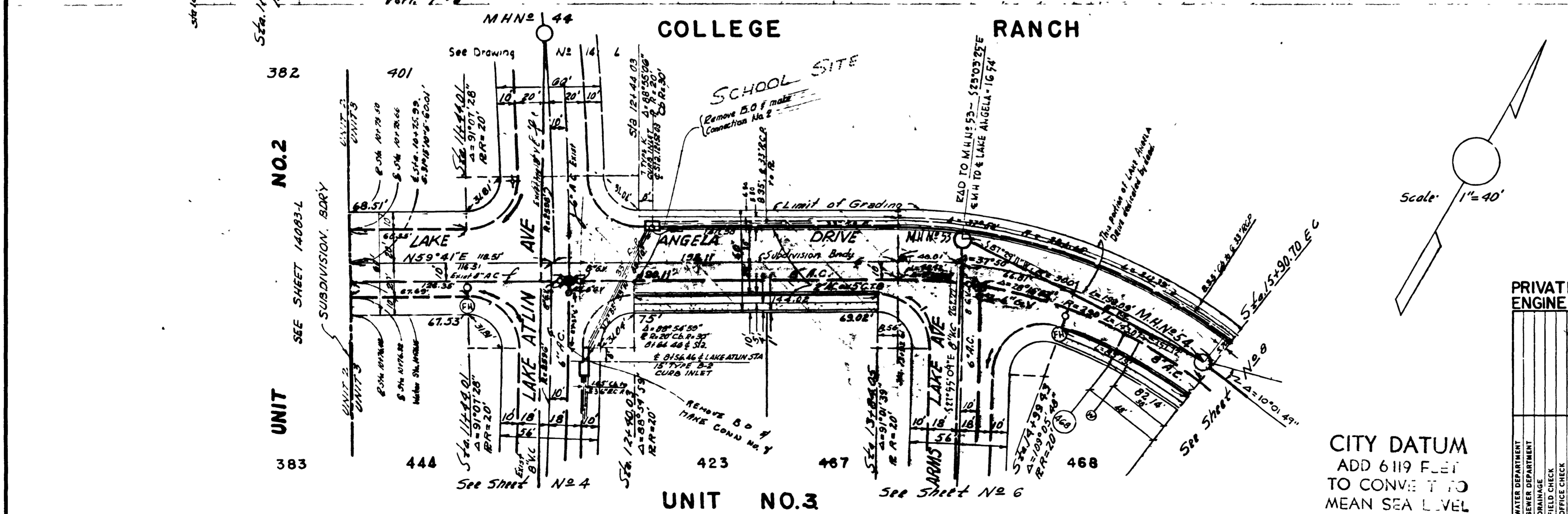
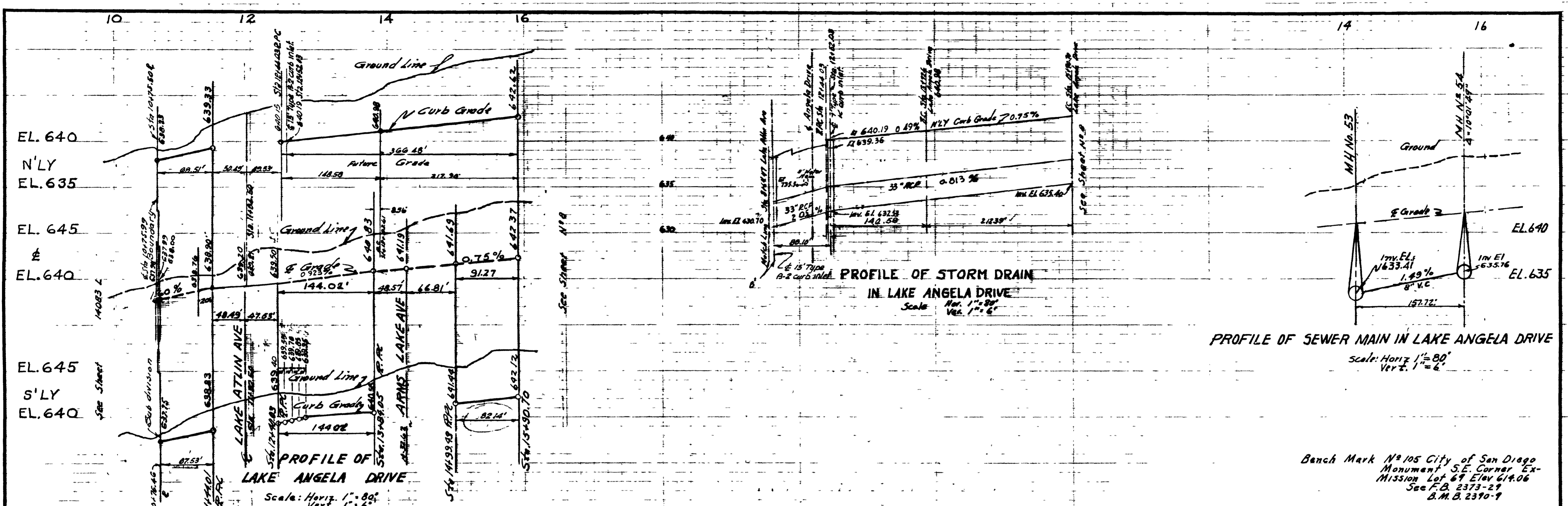
6	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12
<b>ARMS LAKE AVENUE</b>		
<b>COLLEGE RANCH UNIT NO. 3</b>		
APPROVED	<i>E.F. Smith</i>	DATE 12/8/58
CITY ENGINEER	CITY ENGINEER	SCALE As Noted
MADE BY	CHANGED BY	OFFICE
TRACES BY	CHECKED BY	PLANNING COMMISSION
CHECKED BY	FIELD NOTES	DRAWING NUMBER
		14250-L
		MAY 28 1959

CITY DATUM  
ADD 6119 FEET  
TO CONVERT TO  
MEAN SEA LEVEL

Revised To As Built Sept 25, 1959  
Approved By \_\_\_\_\_ Date \_\_\_\_\_

CONSTRUCTION	RECORD	W. O. No 24517
CONTRACTOR DENNIS CONSTCO	INSPECTOR BIRDSELL	
DATE STARTED 11-29-58	REVISION AS BUILT	
DATE COMPLETED 8-28-59		





PRIVATE CONTRACT ENGINEER OF WORK *J.A. Patterson* RE 10410

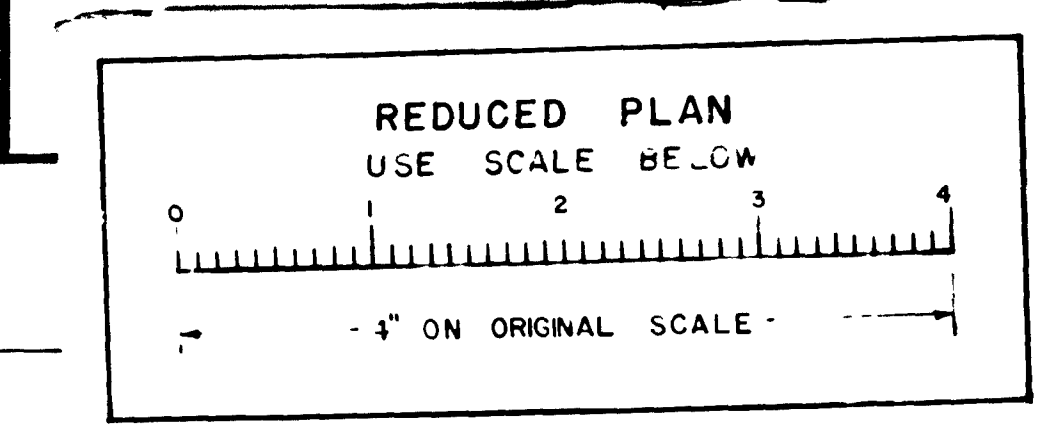
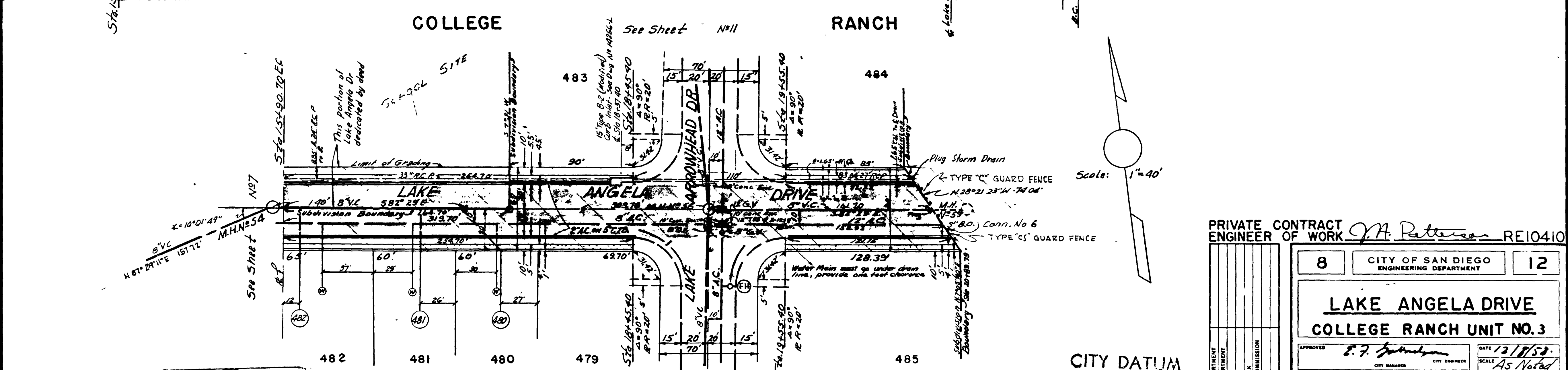
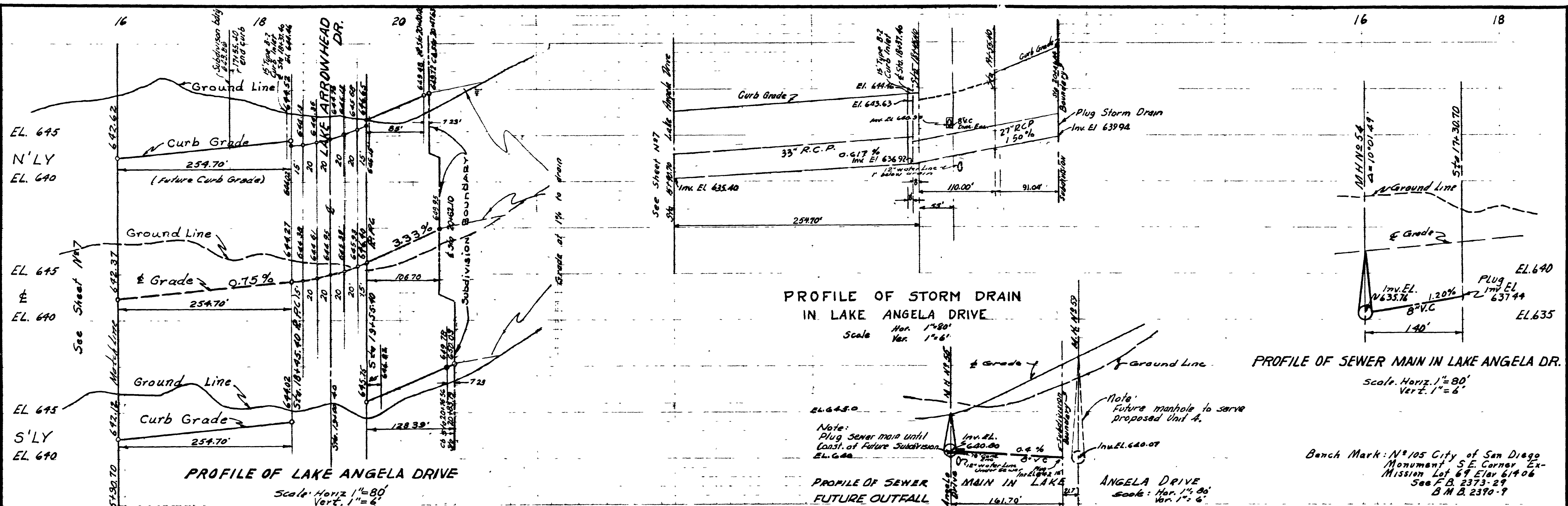
7	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12
<b>LAKE ANGELA DRIVE</b>		
<b>COLLEGE RANCH UNIT NO. 3</b>		
APPROVED <i>E.F. Johnson</i> CITY ENGINEER	DATE 12/18/58	SCALE As Noted
DRAWN BY TRACKED BY CHECKED BY FIELD BOOKS	PROJECT OF FILE MAY 23 1959	DRAWING NUMBER 14251-L

CITY DATUM  
ADD 6119 FEET  
TO CONVERT TO  
MEAN SEA LEVEL

Revised To As Built Sept 25, 1959

CONTRACTOR DENNIS CONST CO	INSPECTOR BIRDSELL
DATE STARTED 11-29-58	REVISION RA BUILT 10-22-59
DATE COMPLETED 8-28-59	

Approved By *Zolt*



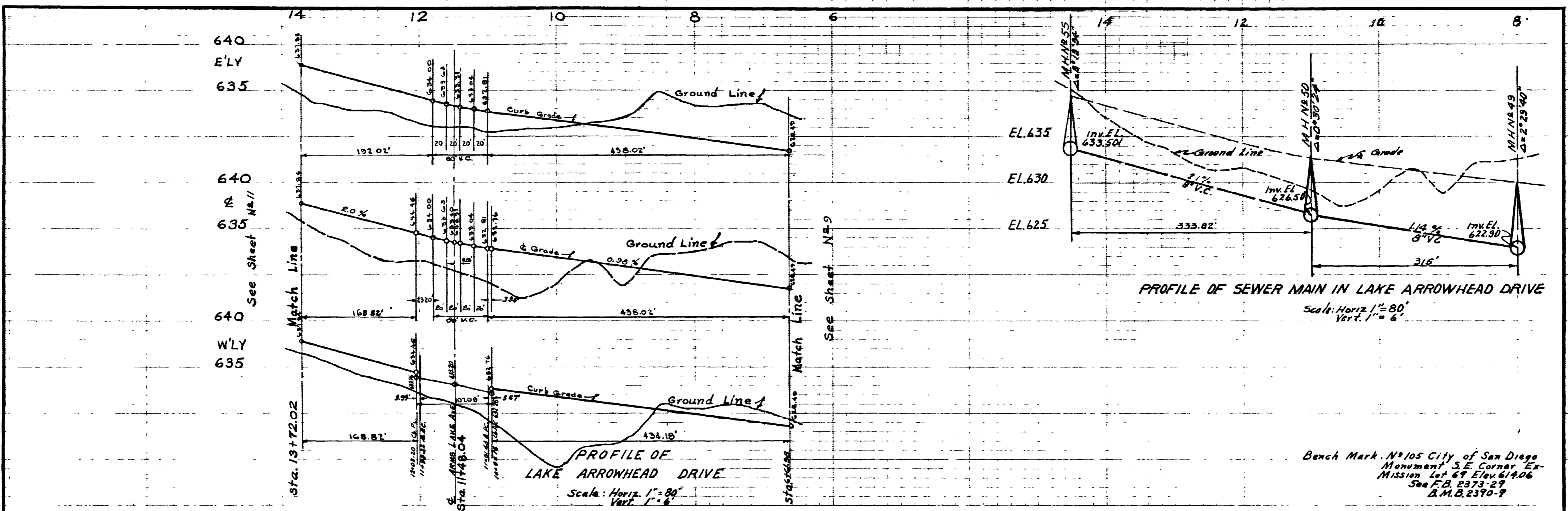
PRIVATE CONTRACT ENGINEER OF WORK *J.A. Peterson* RE10410

8	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12
<b>LAKE ANGELA DRIVE</b> <b>COLLEGE RANCH UNIT NO. 3</b>		
APPROVED <i>E.F. Johnson</i>	CITY ENGINEER	DATE 12/18/58
SCALE	As Noted	
DRAWN BY	CHECKED BY	FIELD BOOKS
CHANGED	DATE	BY
MICROFILM		14252-L

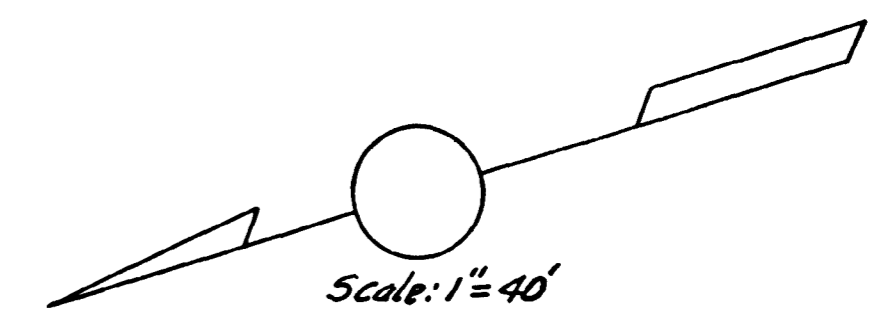
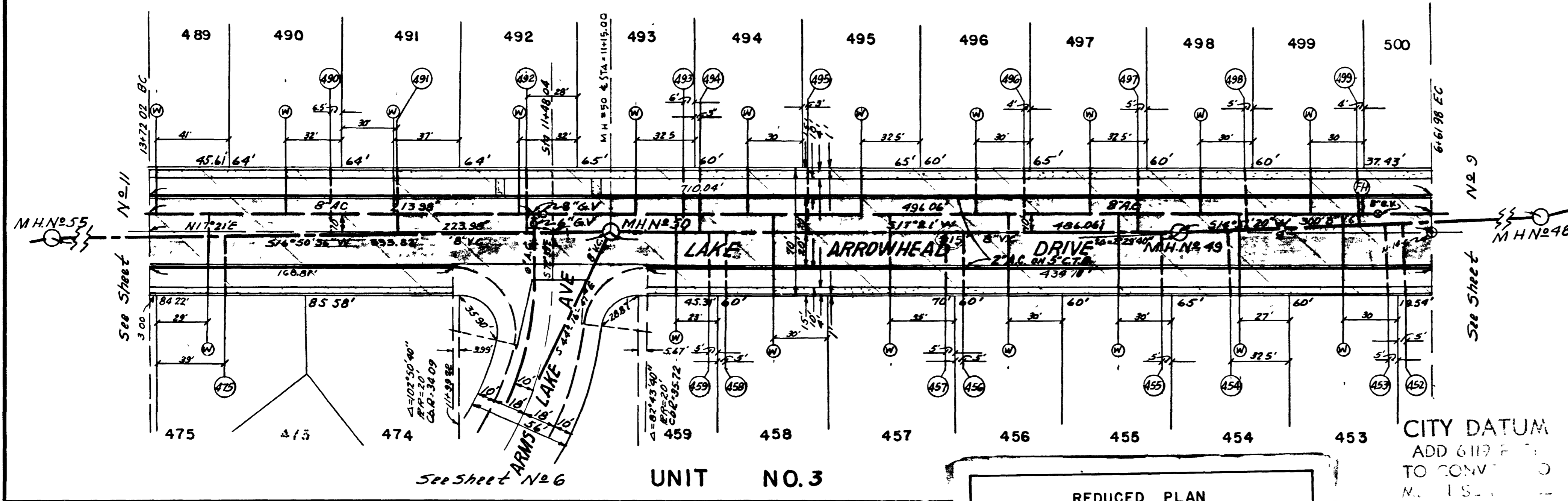
CITY DATUM  
ADD 6119 FEET  
TO CONVERT TO  
MEANS

Revised To As Built Sept 25 1959  
Approved By \_\_\_\_\_ Date \_\_\_\_\_

CONSTRUCTION RECORD		W O No 24577
CONTRACTOR DENNIS CONST CO.	INSPECTOR BIRDSELL	
DATE STARTED 11-29-58	REVISIONS As Built 10-22-59	
DATE COMPLETED 8-28-59		

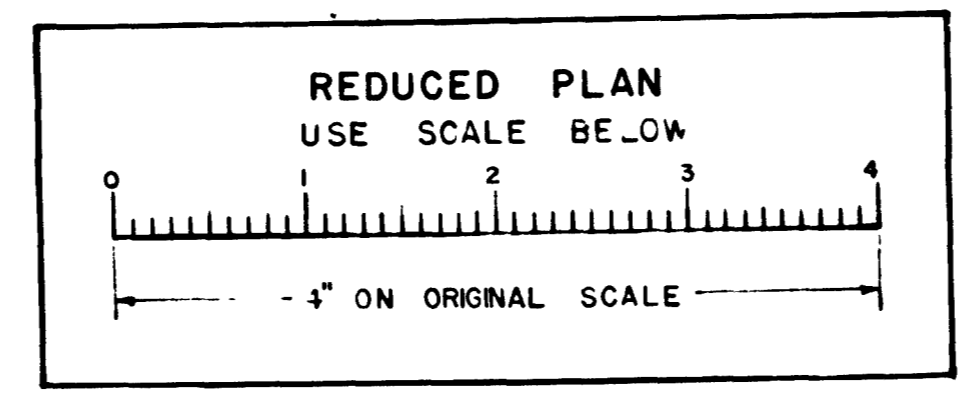


**COLLEGE RANCH**



PRIVATE CONTRACT ENGINEER OF WORK *M. Patterson* RE 10410

10	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12
<b>LAKE ARROWHEAD DRIVE</b>		
<b>COLLEGE RANCH UNIT NO. 3</b>		
APPROVED	<i>C. F. Johnson</i> CITY ENGINEER	DATE 12/2/54
SCALE	As Noted	
CHANGES	DATE	OK
NO. 1		
NO. 2		
NO. 3		
NO. 4		
NO. 5		
NO. 6		
NO. 7		
NO. 8		
NO. 9		
NO. 10		
NO. 11		
NO. 12		
NO. 13		
NO. 14		
NO. 15		
NO. 16		
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NO. 21		
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NO. 23		
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NO. 89		
NO. 90		
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NO. 92		
NO. 93		
NO. 94		
NO. 95		
NO. 96		
NO. 97		
NO. 98		
NO. 99		
NO. 100		



CITY DATUM  
ADD 6.119 FEET  
TO CONVERSION  
M. I. S. ...

Revised To As Built Sept 25, 1959

Approved By \_\_\_\_\_ Date \_\_\_\_\_

CONSTRUCTION RECORD	W O No 26477
CONTRACTOR DENNIS CONST CO	INSPECTOR BIRDSELL
DATE STARTED 11-29-58	REVISIONS As Built 10-27-59
DATE COMPLETED 8-28-59	

A-3617

**SEWER LATERAL DATA TABLE**

LOT	INV. ELEV.	DROP	INVERT	LENGTH	DATE	REMARKS
146	281.5	0.3	281.2	6.0		
147	282.5	0.3	282.2	6.0		Good to M.H. #2
148	283.5	0.3	283.2	6.0		
149	284.5	0.3	284.2	6.0		
150	285.5	0.3	285.2	6.0		
151	286.5	0.3	286.2	6.0		
152	287.5	0.3	287.2	6.0		
153	288.5	0.3	288.2	6.0		Good to M.H. #2
154	289.5	0.3	289.2	6.0		
155	290.5	0.3	290.2	6.0		
156	291.5	0.3	291.2	6.0		
157	292.5	0.3	292.2	6.0		Good to M.H. #2
158	293.5	0.3	293.2	6.0		
159	294.5	0.3	294.2	6.0		
160	295.5	0.3	295.2	6.0		
161	296.5	0.3	296.2	6.0		
162	297.5	0.3	297.2	6.0		
163	298.5	0.3	298.2	6.0		
164	299.5	0.3	299.2	6.0		
165	300.5	0.3	300.2	6.0		Good to M.H. #2
166	301.5	0.3	301.2	6.0		
167	302.5	0.3	302.2	6.0		
168	303.5	0.3	303.2	6.0		Good to M.H. #2
169	304.5	0.3	304.2	6.0		
170	305.5	0.3	305.2	6.0		
171	306.5	0.3	306.2	6.0		
172	307.5	0.3	307.2	6.0		
173	308.5	0.3	308.2	6.0		
174	309.5	0.3	309.2	6.0		
175	310.5	0.3	310.2	6.0		
176	311.5	0.3	311.2	6.0		
177	312.5	0.3	312.2	6.0		Good to M.H. #2
178	313.5	0.3	313.2	6.0		
179	314.5	0.3	314.2	6.0		
180	315.5	0.3	315.2	6.0		
181	316.5	0.3	316.2	6.0		Good to M.H. #2
182	317.5	0.3	317.2	6.0		
183	318.5	0.3	318.2	6.0		
184	319.5	0.3	319.2	6.0		Good to M.H. #2
185	320.5	0.3	320.2	6.0		
186	321.5	0.3	321.2	6.0		
187	322.5	0.3	322.2	6.0		
188	323.5	0.3	323.2	6.0		
189	324.5	0.3	324.2	6.0		
190	325.5	0.3	325.2	6.0		Good to M.H. #2
191	326.5	0.3	326.2	6.0		
192	327.5	0.3	327.2	6.0		
193	328.5	0.3	328.2	6.0		
194	329.5	0.3	329.2	6.0		Good to M.H. #2
195	330.5	0.3	330.2	6.0		
196	331.5	0.3	331.2	6.0		

201	332.5	0.3	332.2	6.0		
202	333.5	0.3	333.2	6.0		
203	334.5	0.3	334.2	6.0		
204	335.5	0.3	335.2	6.0		
205	336.5	0.3	336.2	6.0		
206	337.5	0.3	337.2	6.0		
207	338.5	0.3	338.2	6.0		
208	339.5	0.3	339.2	6.0		
209	340.5	0.3	340.2	6.0		Plug
210	341.5	0.3	341.2	6.0		
211	342.5	0.3	342.2	6.0		
212	343.5	0.3	343.2	6.0		
213	344.5	0.3	344.2	6.0		
214	345.5	0.3	345.2	6.0		
215	346.5	0.3	346.2	6.0		
216	347.5	0.3	347.2	6.0		
217	348.5	0.3	348.2	6.0		
218	349.5	0.3	349.2	6.0		
219	350.5	0.3	350.2	6.0		
220	351.5	0.3	351.2	6.0		
221	352.5	0.3	352.2	6.0		
222	353.5	0.3	353.2	6.0		
223	354.5	0.3	354.2	6.0		
224	355.5	0.3	355.2	6.0		
225	356.5	0.3	356.2	6.0		
226	357.5	0.3	357.2	6.0		
227	358.5	0.3	358.2	6.0		
228	359.5	0.3	359.2	6.0		
229	360.5	0.3	360.2	6.0		
230	361.5	0.3	361.2	6.0		
231	362.5	0.3	362.2	6.0		
232	363.5	0.3	363.2	6.0		
233	364.5	0.3	364.2	6.0		
234	365.5	0.3	365.2	6.0		
235	366.5	0.3	366.2	6.0		
236	367.5	0.3	367.2	6.0		
237	368.5	0.3	368.2	6.0		
238	369.5	0.3	369.2	6.0		
239	370.5	0.3	370.2	6.0		
240	371.5	0.3	371.2	6.0		
241	372.5	0.3	372.2	6.0		
242	373.5	0.3	373.2	6.0		
243	374.5	0.3	374.2	6.0		
244	375.5	0.3	375.2	6.0		
245	376.5	0.3	376.2	6.0		
246	377.5	0.3	377.2	6.0		
247	378.5	0.3	378.2	6.0		
248	379.5	0.3	379.2	6.0		
249	380.5	0.3	380.2	6.0		
250	381.5	0.3	381.2	6.0		
251	382.5	0.3	382.2	6.0		
252	383.5	0.3	383.2	6.0		
253	384.5	0.3	384.2	6.0		
254	385.5	0.3	385.2	6.0		
255	386.5	0.3	386.2	6.0		
256	387.5	0.3	387.2	6.0		
257	388.5	0.3	388.2	6.0		
258	389.5	0.3	389.2	6.0		
259	390.5	0.3	390.2	6.0		
260	391.5	0.3	391.2	6.0		

**GENERAL NOTES**  
 CEMENT TREATED BASE SHALL CONFORM TO SEC. 18 STD. SPECS. CITY OF SAN DIEGO.  
 NO IMPROVEMENT SHALL BE LAID BEFORE GAS MAINS AND SERVICES ARE INSTALLED.  
 EACH LOT SHALL RECEIVE A 4" V.C. SEWER LATERAL SET AT A MINIMUM GRADE OF 2.0% WITH A MINIMUM 0.3 DROPTO THE MAIN AND THE INVERT SHALL BE AT A DEPTH OF 5 FEET BELOW THE TOP OF CURB ELEVATION AT PROPERTY LINE. UNLESS OTHERWISE NOTED, THE LOCATION SHALL BE DETERMINED BY THE ENGINEER OF WORK. THE LATERALS SHALL BE CONSTRUCTED PERPENDICULAR TO THE SEWER MAIN UNLESS OTHERWISE NOTED AND, AS CONSTRUCTED, LOCATIONS SHALL BE SHOWN ON THESE PLANS IN INK BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY ENGINEER. THE NECESSARY LATERAL DATA SHALL ALSO BE PLACED ON THE LATERAL TABLE WHICH IS A PART OF THESE PLANS. THIS METHOD OF RECORDING LATERAL DATA ONLY APPLIES TO LOTS FULLY IMPROVED WITH HOUSES. ALL SEWER LATERALS SHALL BE BUILT TO THE PROPERTY LINE. ENGINEER OF WORK SHALL CO-ORDINATE AND FURNISH ON DEMAND TO THE SEWER DIVISION INFORMATION ON THE LOCATION OF EACH AND EVERY LATERAL IN THE SUBDIVISION.  
 PERMANENT STREET NAME SIGNS WILL BE INSTALLED BY THE CITY OF SAN DIEGO. SITE GRADING AND EROSION CONTROL SHALL COMPLY WITH RESOLUTION NO. 1292.  
 SEWER MAINS AND LATERALS CONSTRUCTED IN EARTH FILL SHALL BE ENCASED IN CONCRETE AS SHOWN ON DRAWINGS IF ELEVATION IS BELOW BOTTOM OF SEWER TRENCH IS COMPACTED TO 90% OR MORE.

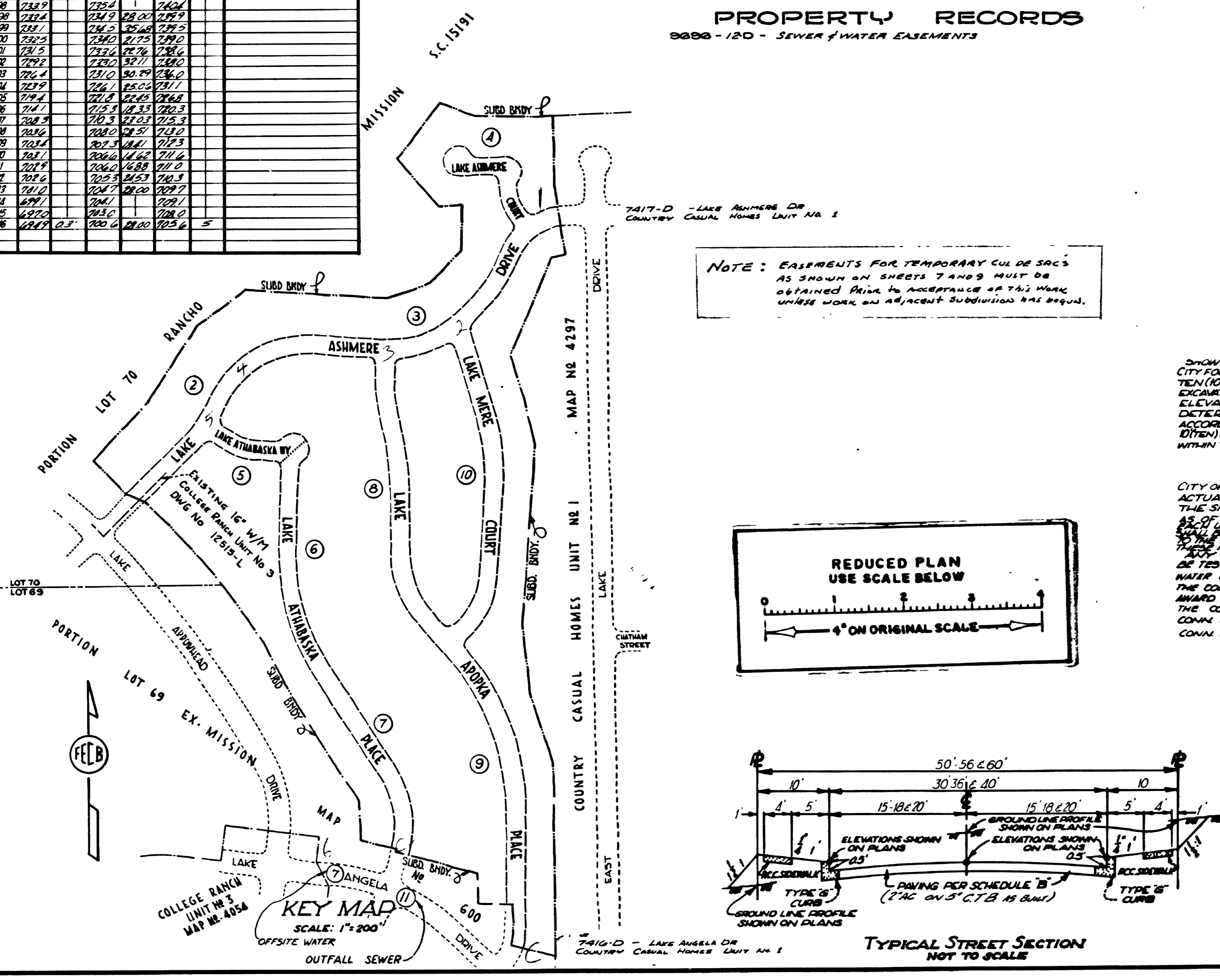
**REFERENCE DRAWINGS**  
 12513-L - COLLEGE RANCH UNIT NO 3 - 16" W/M  
 7417-D - COUNTRY CASUAL HOMES UNIT NO 1 - LAKE ASHMORE DRIVE  
 7416-D - COUNTRY CASUAL HOMES UNIT NO 1 - LAKE ANGELA DRIVE  
 7422-D - COUNTRY CASUAL HOMES UNIT NO 1 - OFF-SITE W/M

**WORK TO BE DONE**  
 THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE FOLLOWING STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY OF SAN DIEGO.

**SPECIFICATIONS**  
 PART I, FILED APRIL 9, 1959 INCLUDING AMENDMENT FILED APRIL 6, 1959.  
 PART 3, FILED MAY 9, 1958. GENERAL CONDITIONS FOR PRIVATE CONTRACT WORK Sec. 30

IMPROVEMENT	STANDARD DRAWING	SYMBOL
GRADING		---
PAVING		XXXXXX
2" AC PAVING		XX XX XX
6" AC BERM	21-EB	XXX XXX
TYPE G CURB	94-B	---
5" CURB	8-10-B	---
6" CURB	8-EB	---
SIDEWALK	4-EB, 53-EB	---
CROSS GUTTER	35-EB	---
DRIVEWAYS	22-EB, 23-EB, 24-EB, 40-EB, 41-EB	---
GUARD FENCE	50B-EB	---
CONCRETE MONUMENTS	521-EB 10 REQUIRED	---○---
V.C.P. SEWER MAINS	101-EB	---○---
4" V.C.P. SEWER LATERAL	122-EB (SEE GENERAL NOTES)	---○---
CONCRETE MANHOLE	523-EB, 105-EB	---○---
CONCRETE ENCASEMENT FOR SEWER PIPE	105-EB	---○---
CONCRETE CRADLE FOR SEWERS	100-EB	---○---
MULTIPLE BRANCH SERVICE FITTING	260-NO	---
AC WATER MAIN & APPURTENANCES	206-WB THRU 212-WB, 201-WB	---
BLOWOFF ASSEMBLY	208-WB	---
GATE VALVE & BOX	212-WB	---
6" FIRE HYDRANT AND SERVICE	214-WB	---
COPPER WATER SERVICE	200-WB, 205-WB (SEE GENERAL NOTES)	---
PAVEMENT CUTOFF WALL	27-EB	---
CB OUTLET	335-EB	---
TYPE X SKULLWAY	325-EB	---
4" WVC P. SEWER LATERAL	122-EB	---
4" SEWER CHIMNEY	5-18-60	---
LEGEND EXISTING WORK	702-EB	---
TEMPORARY STREET NAME SIGNS TO BE INSTALLED PRIOR TO THE OCCUPANCY OF ANY OF THE HOUSES		

**PROPERTY RECORDS**  
 0886-120 - SEWER & WATER EASEMENTS



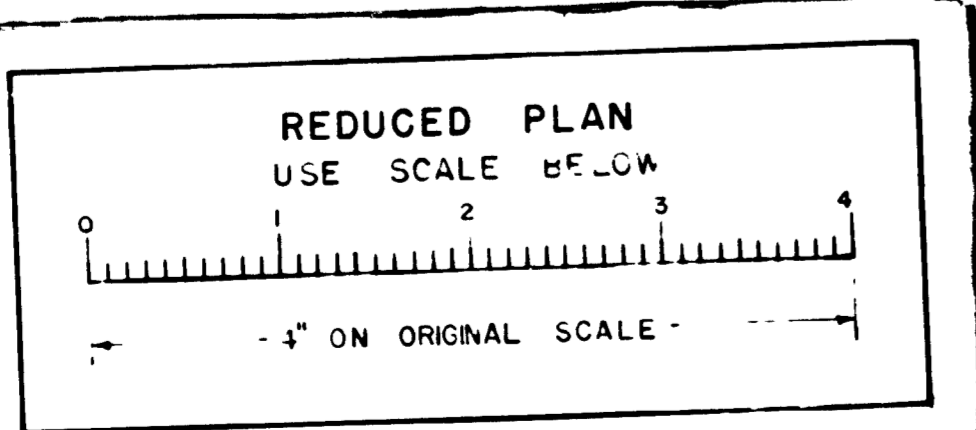
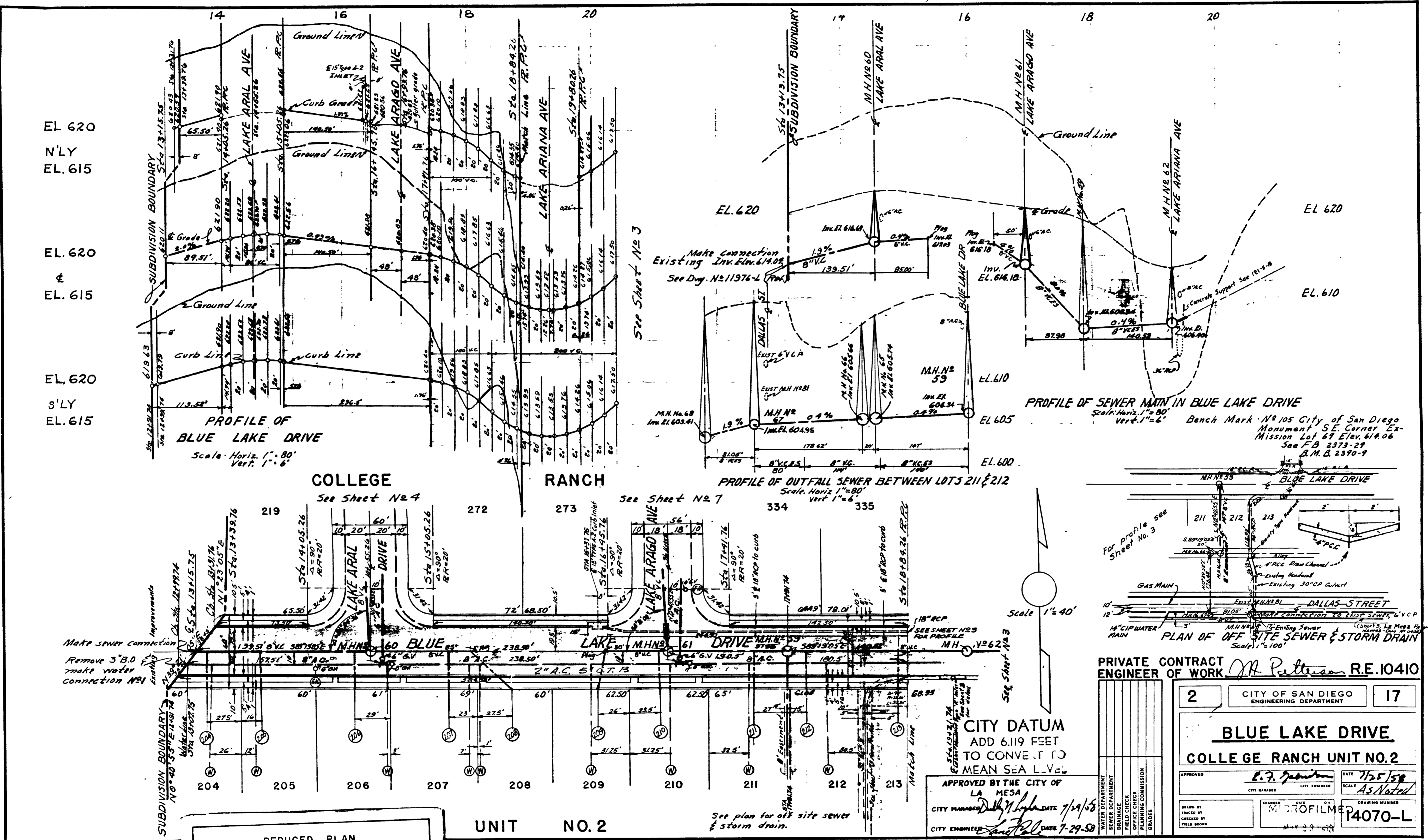
**WATER MAIN NOTES**  
 ALL WATER SERVICES SHALL BE 3/4" COPPER PIPE UNLESS OTHERWISE SHOWN ON PLANS OR AS REQUIRED BY ZONING AND SHALL BE CONSTRUCTED CLEAR OF DRIVEWAYS. CITY FORCES WILL EXCAVATE BACKFILL, FURNISH AND INSTALL ALL MATERIAL. FOR APPROXIMATELY TEN (10) FEET ADJACENT TO THE POINT OF CONNECTION TO EACH EXISTING MAIN, THE CONTRACTOR SHALL EXCAVATE AT THE LOCATION OF EACH REQUIRED CONNECTION TO AN EXISTING MAIN TO DETERMINE THE ELEVATION AND LOCATION OF THE MAIN AT THE CONNECTION. IMMEDIATELY AFTER SUCH DETERMINATION HAS BEEN MADE, THE ABOVE EXPLORATORY EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH CITY STD. SPECS. ALL PIPELINE WORK BY CONTRACTOR SHALL TERMINATE APPROXIMATELY (10) FEET FROM POINTS OF CONNECTIONS TO THE EXISTING WATER MAINS AND NO EXCAVATION SHALL BE MADE WITHIN THE AFORESAID TEN (10) FEET EXCEPT THE ABOVE EXPLORATORY EXCAVATION.  
 THE CONNECTIONS TO ALL EXISTING WATER MAINS WILL BE MADE BY THE CITY OF SAN DIEGO WATER DEPARTMENT. CHARGES WILL BE COLLECTED ONLY ON CONNECTIONS ACTUALLY MADE. WHERE NO CONNECTION IS MADE, THE CONTRACTOR SHALL INSTALL A BLOWOFF OF THE SIZE AS SHOWN ON THE PLANS. ANY CONNECTIONS NOT SHOWN WILL BE MADE AT PRICES IN EFFECT AT THE TIME OF THIS PLAN.  
 ALL WATER SERVICES AS CALLED FOR IN THE WATER MAIN NOTES THE LOCATION SHALL BE DETERMINED BY THE ENGINEER OF WORK. THE SERVICES SHALL BE CONSTRUCTED PERPENDICULAR TO THE WATER MAINS UNLESS OTHERWISE NOTED AND, AS CONSTRUCTED, LOCATIONS SHALL BE SHOWN ON THESE PLANS IN INK BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY ENGINEER. THE NECESSARY LATERAL DATA SHALL ALSO BE PLACED ON THE LATERAL TABLE WHICH IS A PART OF THESE PLANS. THIS METHOD OF RECORDING LATERAL DATA ONLY APPLIES TO LOTS FULLY IMPROVED WITH HOUSES.  
 THE CONTRACTOR SHALL NOTIFY THE WATER DISTRIBUTION/PRODUCTION DEPARTMENT, BE S-9271, EX. 21 UPON AWARD OF CONTRACT TO PERMIT SCHEDULING OF WATER UTILITIES WORK.  
 THE COST OF CONNECTIONS SHOWN ON THESE PLANS ARE AS FOLLOWS:  
 CONN. NO. 1 \$297.00 CONN. NO. 2 \$320.00 CONN. NO. 3 \$297.00  
 CONN. NO. 4 \$297.00 CONN. NO. 5 \$300.00 CONN. NO. 6 \$300.00

**PRIVATE CONTRACT** FRELAND-JENSEN-CHRISTENSEN & BOAS  
 ENGINEER OF WORK C.W. McGeath R.C.E. 8985

**PLANS FOR THE IMPROVEMENT OF: LAKE ATHABASKA PLACE, LAKE ATHABASKA WAY, LAKE ASHMORE DRIVE, LAKE APOPKA PLACE, LAKE MERE COURT, LAKE ASHMORE COURT, THE EASEMENTS AND PUBLIC RIGHTS OF WAY IN AND ADJOINING: COUNTRY CASUAL HOMES UNIT NO. 2**

CITY OF SAN DIEGO	SHEET 1 of 11 SHEETS		NO. 76396
ENGINEERING DEPARTMENT	DATE: 8/25/60		BY: C.W. McGeath
PLANNING DIVISION	APPROVALS FOR: CITY ENGINEER		APPROVALS FOR: DIVISION OF PUBLIC WORKS AND OFFICE OF MANAGEMENT
DESIGNER: As Built 01/26/62	CITY ENGINEER: (Signature)	DIVISION OF PUBLIC WORKS AND OFFICE OF MANAGEMENT: (Signature)	CHECKED: N/ML/K
CONSTRUCTION RECORD	ELECTRICAL: (Signature)	PAVING: (Signature)	SEWER: (Signature)
DATE: 12-16-60	DATE: 1-22-62	DATE: (Signature)	DATE: (Signature)
BY: C.W. McGeath	BY: H. Mills	BY: (Signature)	BY: (Signature)
FILED BOOK 230-116	FILED BOOK 230-116	FILED BOOK 230-116	FILED BOOK 230-116

A-4617  
MICROFILMED



See Sheet No 3

See Sheet No 4

See Sheet No 7

Scale 1" = 40'

CITY DATUM  
ADD 6.119 FEET  
TO CONVERT TO  
MEAN SEA L.V.E.

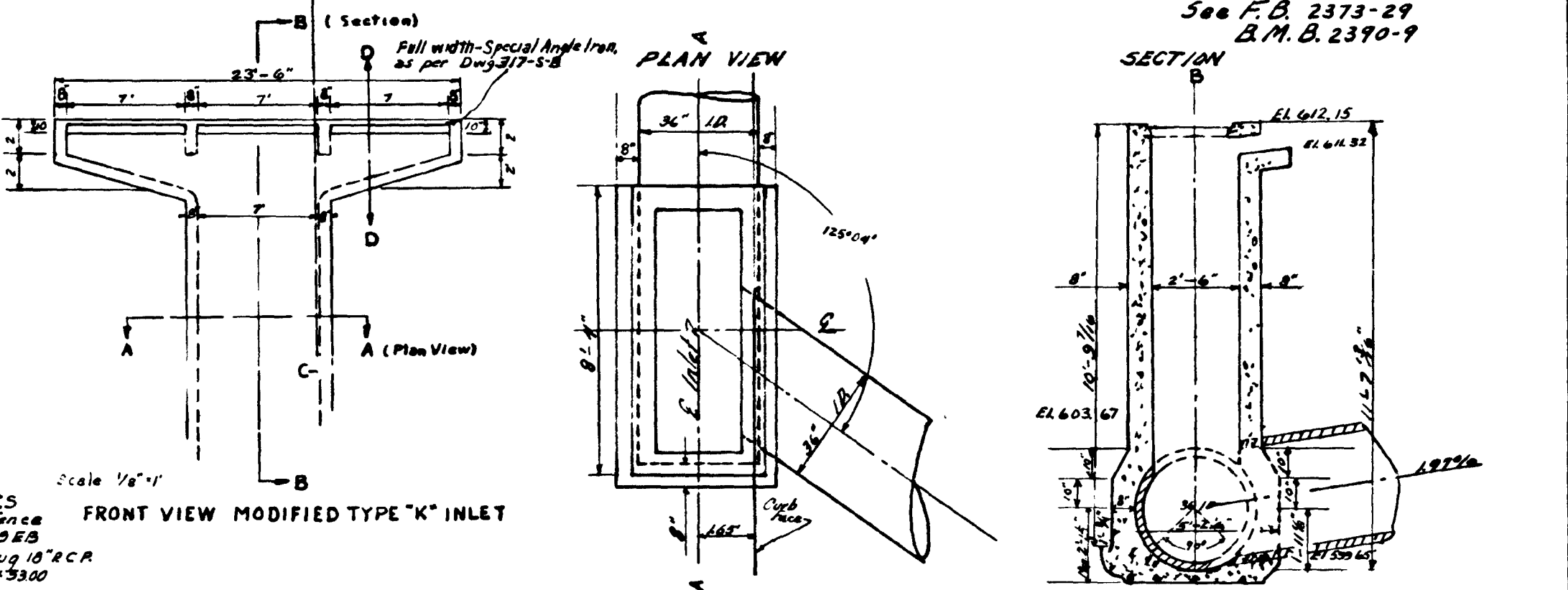
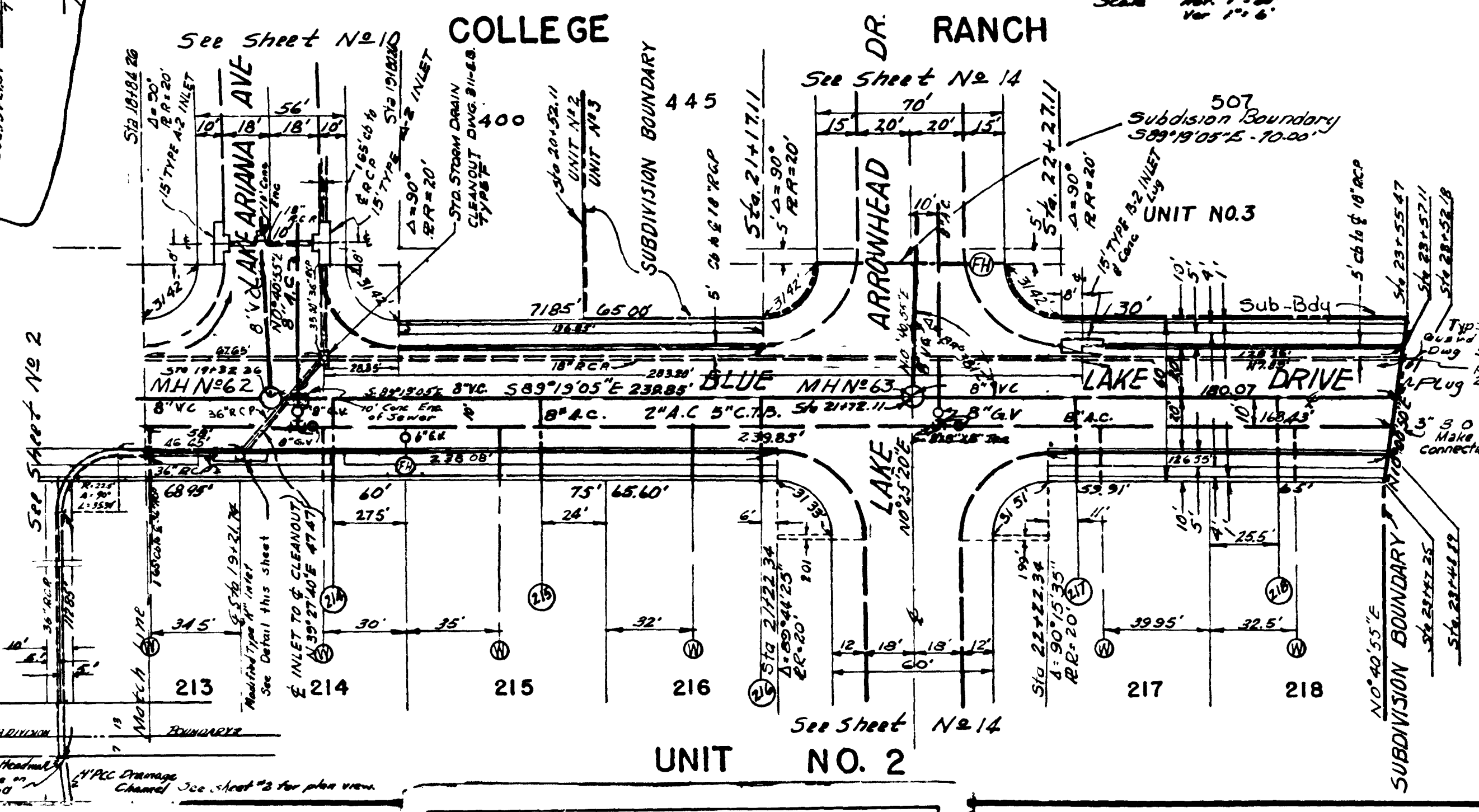
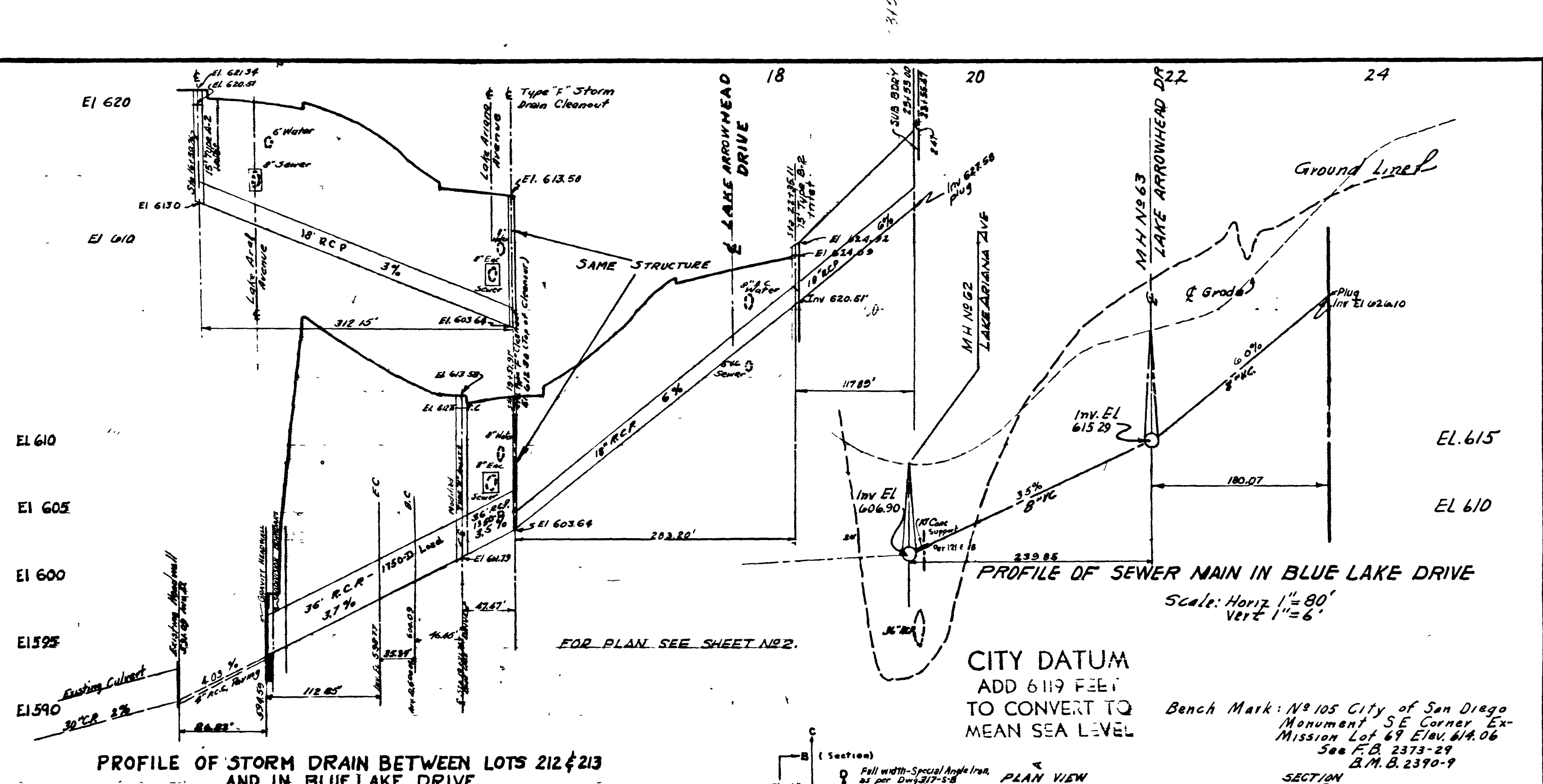
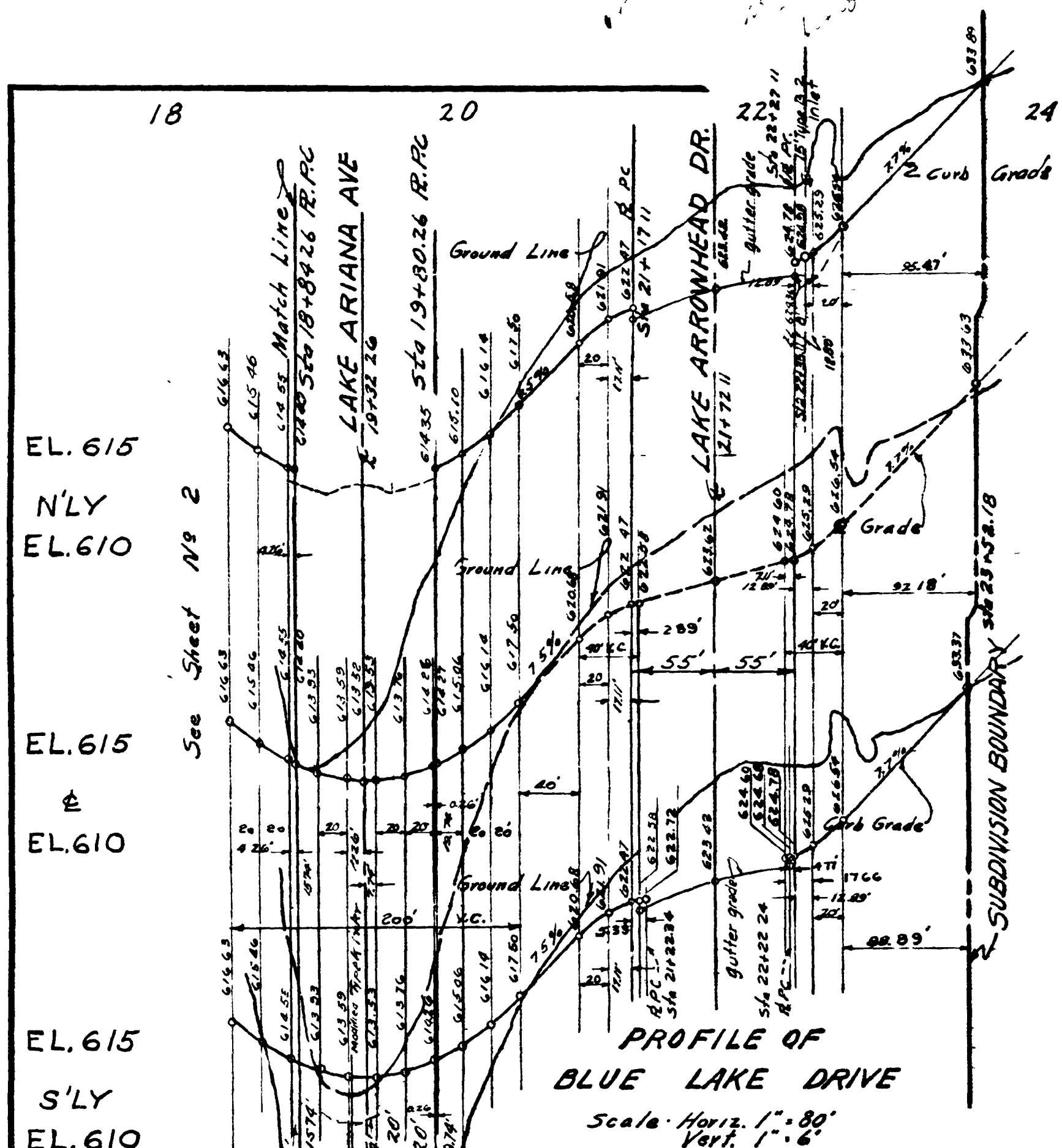
APPROVED BY THE CITY OF  
LA MESA  
CITY MANAGER *Dolly J. Lopez* DATE 7/29/58  
CITY ENGINEER *Paul J. ...* DATE 7-29-58

PRIVATE CONTRACT ENGINEER OF WORK *M. Patterson* R.E. 10410

2	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>BLUE LAKE DRIVE</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED	<i>E. J. ...</i> CITY ENGINEER	DATE 7/25/58
CHECKED BY		SCALE As Noted
DRAWN BY		DRAWING NUMBER
CHECKED BY		14070-L
FIELD BOOKS		

REVISIONS	CONSTRUCTION RECORD	W O No 24516
Revised "AS BUILT"	9-18-58	CONTRACTOR Y.R. DENNIS CONSTR. Co. INSPECTOR BIRDSELL
		DATE STARTED 8-5-58 REVISIONS As Built 10-21-58, 4-28
		DATE COMPLETED 8-12-59

A-3617

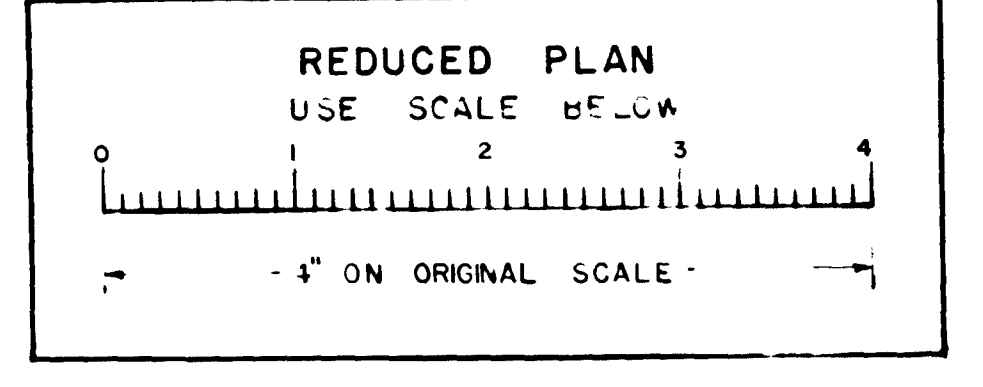


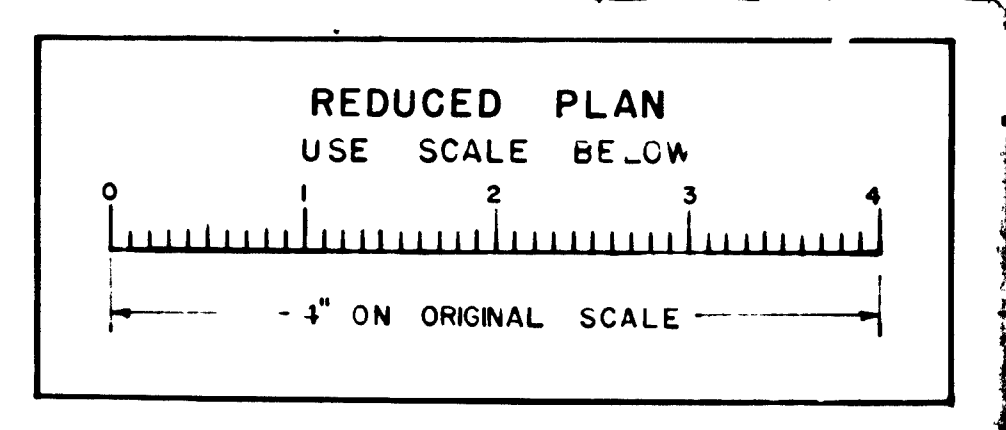
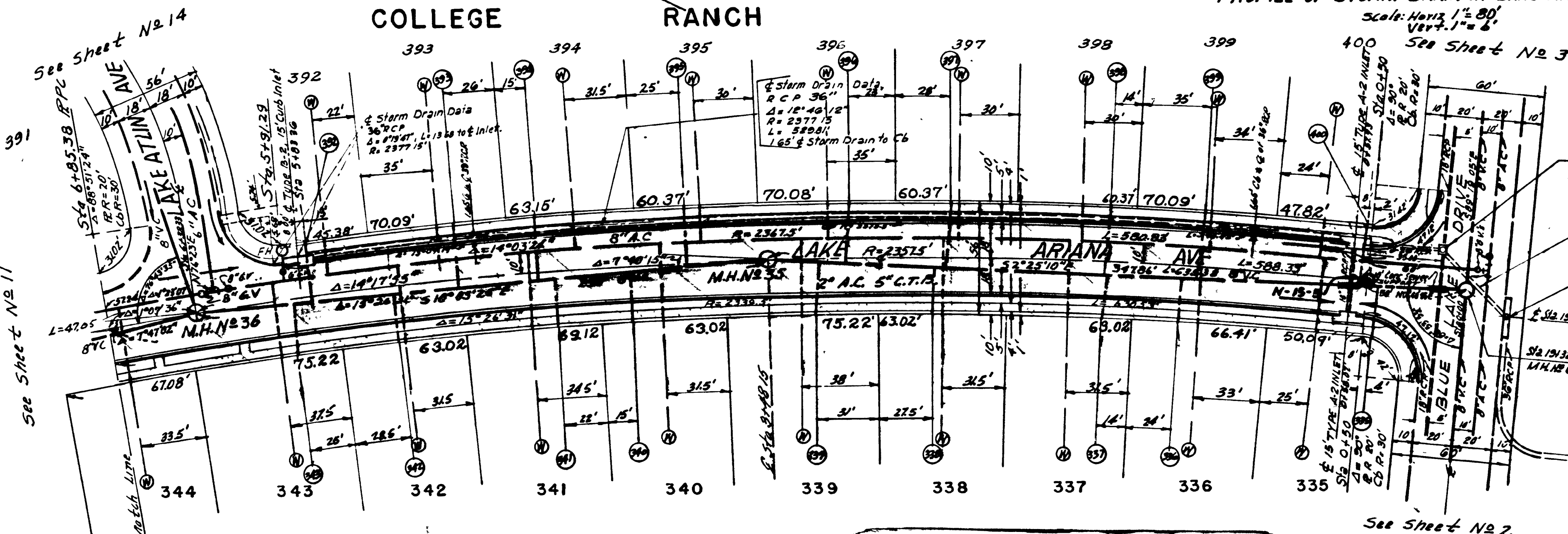
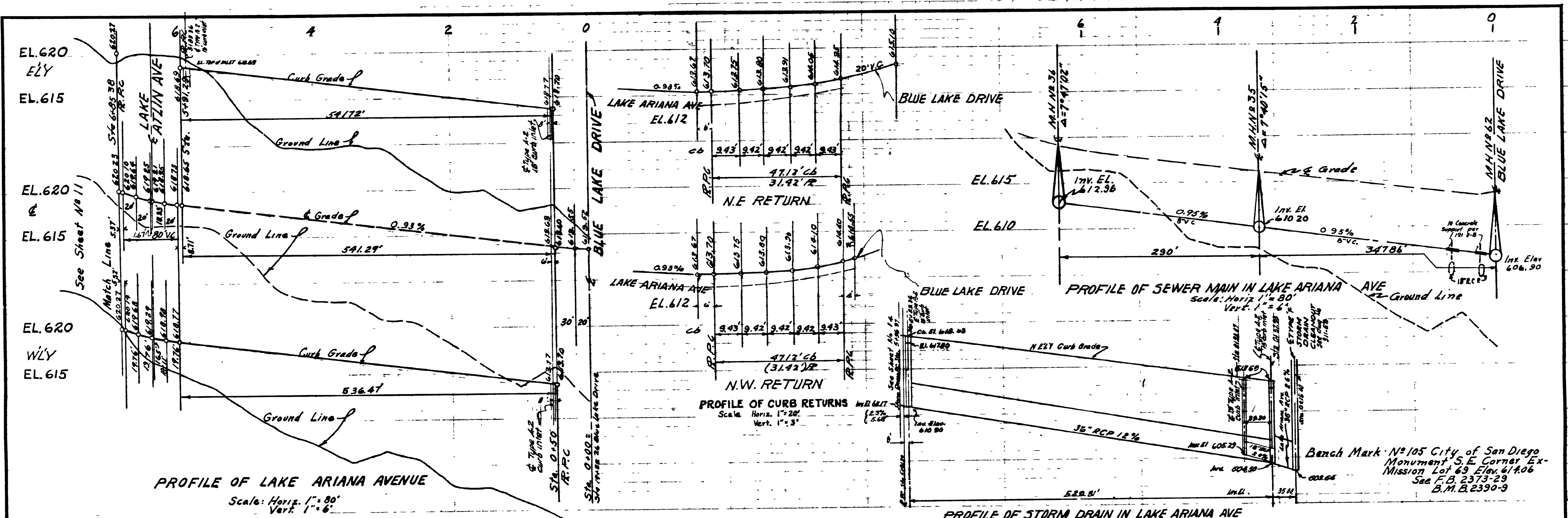
PRIVATE CONTRACT ENGINEER OF WORK

APPROVED BY THE CITY OF LA MESA  
 City Manager: *Dale R. Latham* 7/25/58  
 City Engineer: *Ronald T. Hall* 7-29-58

WATER DEPARTMENT	CONSTRUCTION	RECORD	W O No 24576
SEWER DEPARTMENT	CONTRACTOR V.R. DENNIS CONSTR. Co.	INSPECTOR B. ROSS/11	
DRAINAGE	DATE STARTED 8-5-58	REVISIONS AS BUILT	
FIELD CHECK	DATE COMPLETED 8-12-59		
PLANNING COMMISSION			
GRADES			

DRAWING NUMBER 14071-L





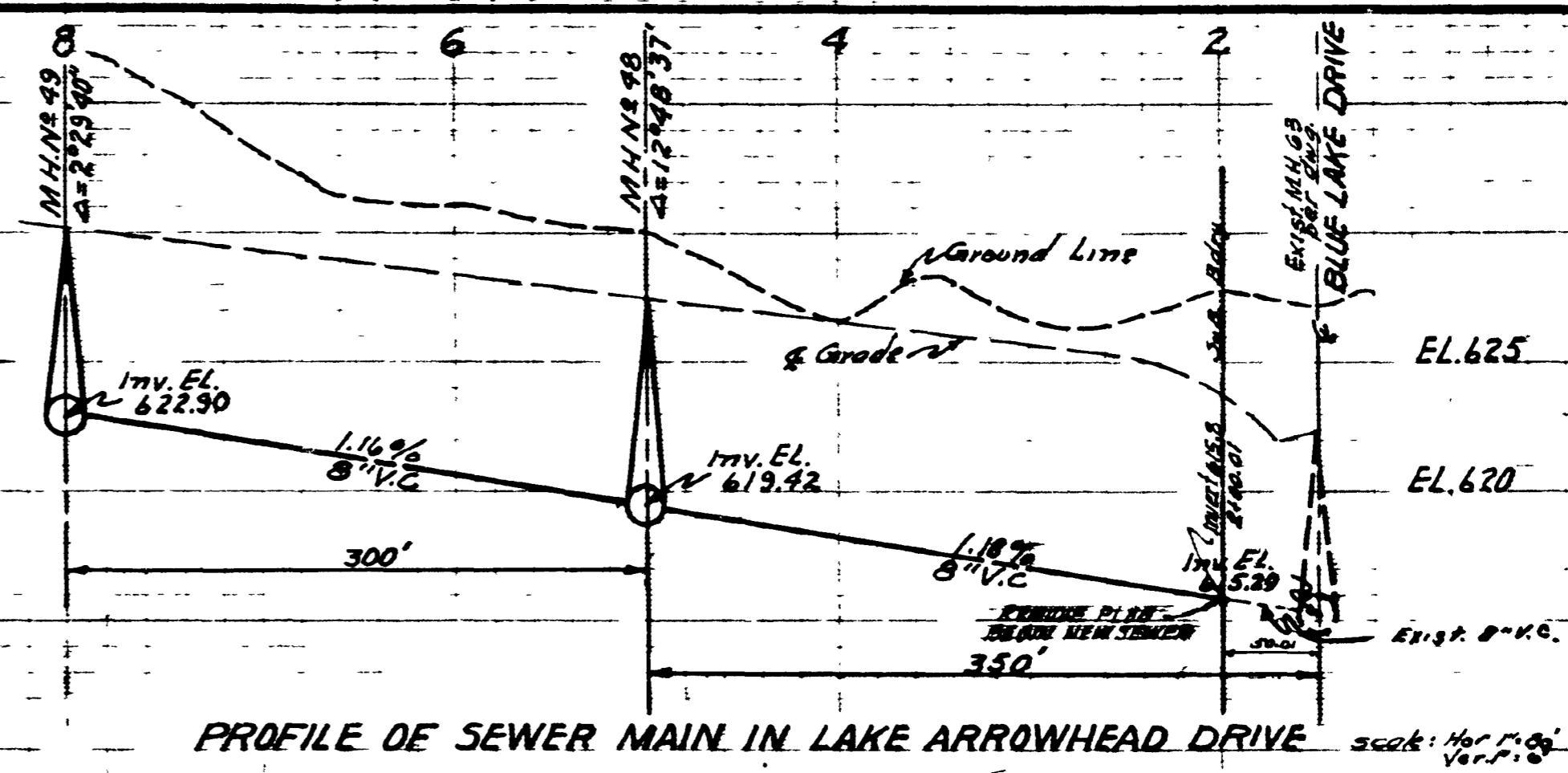
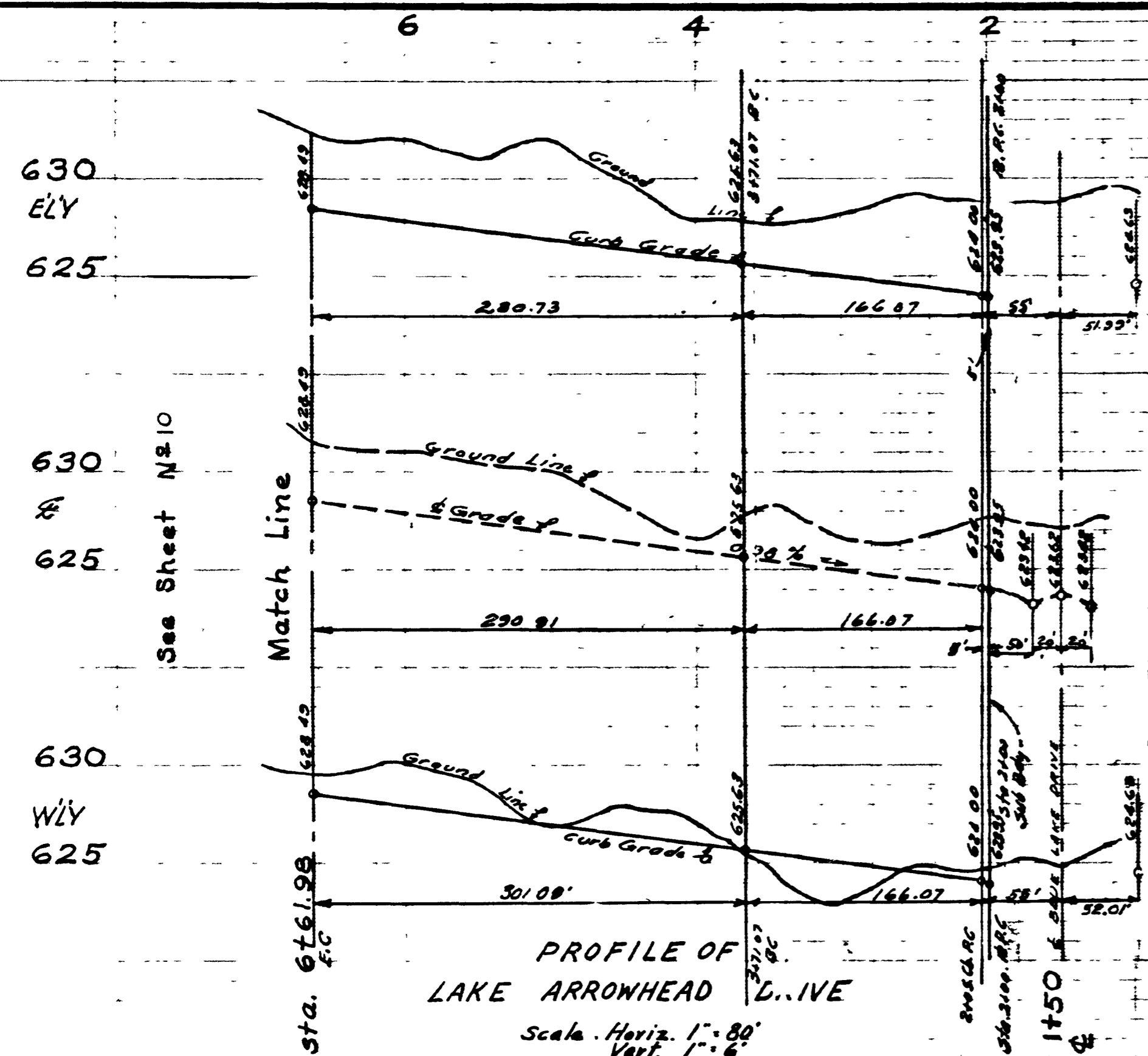
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CITY DATUM  
ADD 6.19 FEET  
TO CONVERT  
MEAN SEA LEVEL

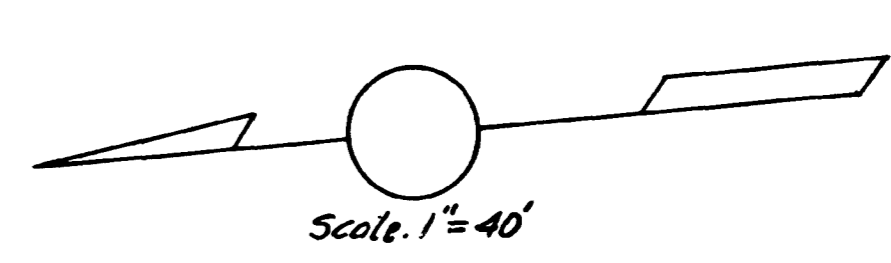
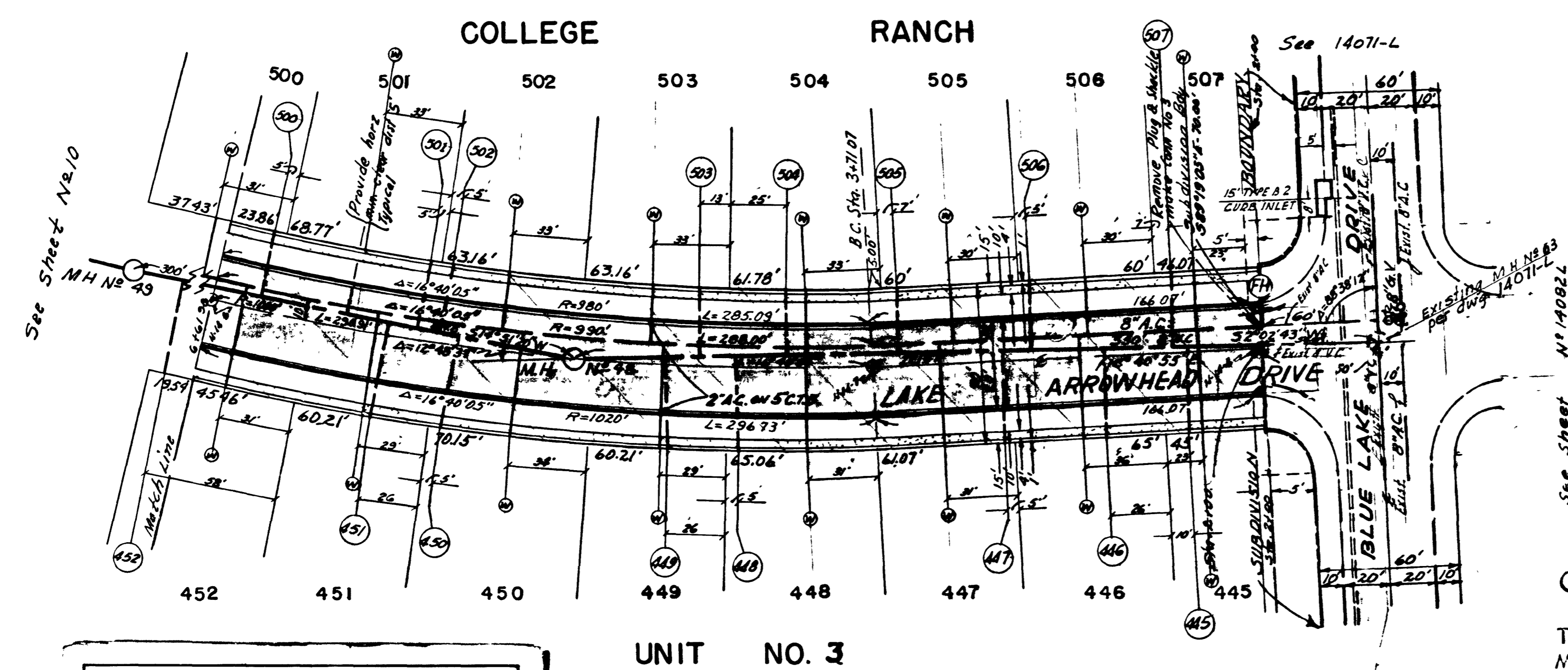
PRIVATE CONTRACT  
ENGINEER OF WORK *J. Peterson* R.E.10410

10	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>LAKE ARIANA AVE</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED <i>E. J. Johnson</i> CITY ENGINEER	DATE 7/25/52	SCALE As Shown
DRAWN BY CHECKED BY FIELD BOOKS	PROFILMED	DRAWING NUMBER <b>14078-L</b>

REVISIONS	CONSTRUCTION RECORD	W O No 24516
Revised AS BUILT	CONTRACTOR V.R. DENNIS CONSTRUCTION Co. INSPECTOR BIRDSELL	
	DATE STARTED 8-5-52	REVISIONS AS BUILT DATE 10-21-52 RVE
	DATE COMPLETED 8-12-52	

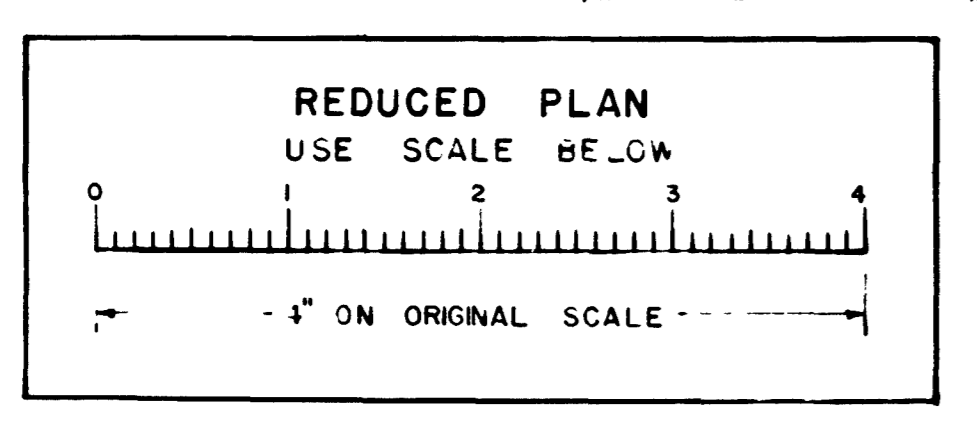


Bench Mark No. 105 City of San Diego  
 Monument S.E. Corner Ex.  
 Mission Lot 67 Elevation 614.06  
 See F.D. 2373-27  
 B.M. B. 2370-7



PRIVATE CONTRACT ENGINEER OF WORK *J.A. Peterson* RE 10410

9	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12
<b>LAKE ARROWHEAD DRIVE</b>		
<b>COLLEGE RANCH UNIT NO. 3</b>		
APPROVED <i>E.F. Johnson</i> CITY ENGINEER	DATE 12/18/57	SCALE As Noted
DESIGNED BY CHECKED BY FIELD ENGINEER	CONTRACT NO. MAY 28 1958	DRAWING NUMBER 14253-L

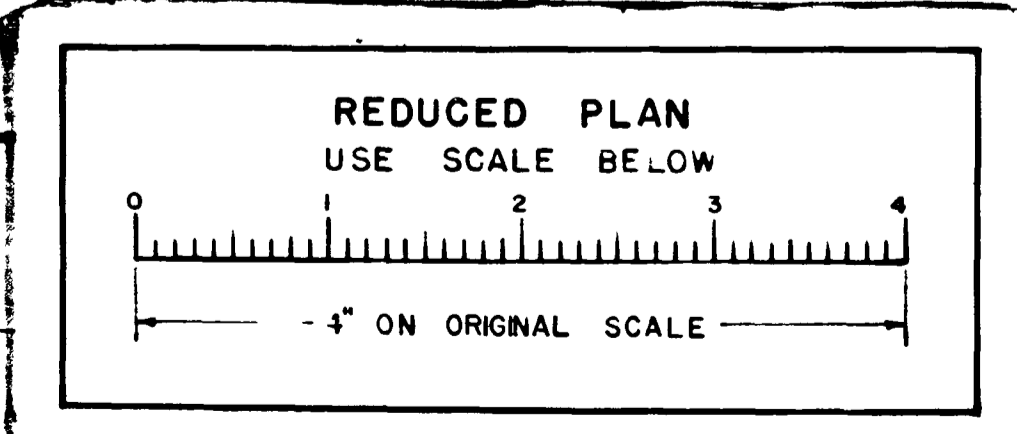
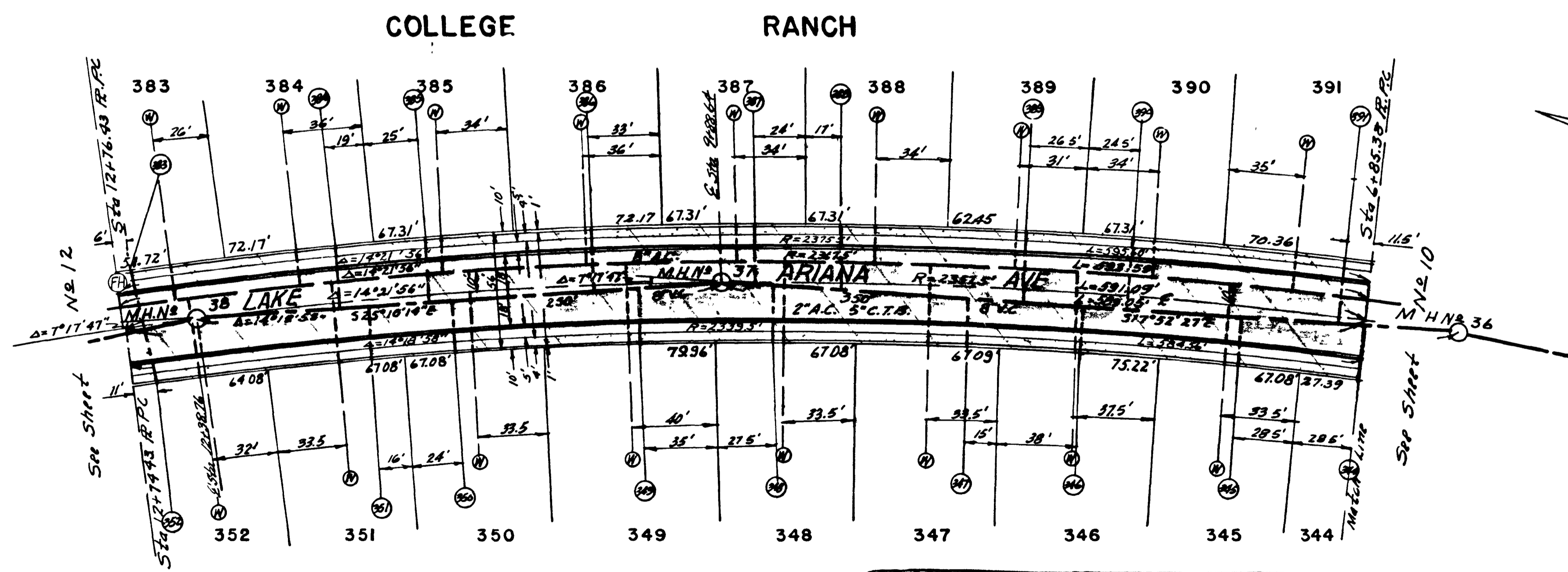
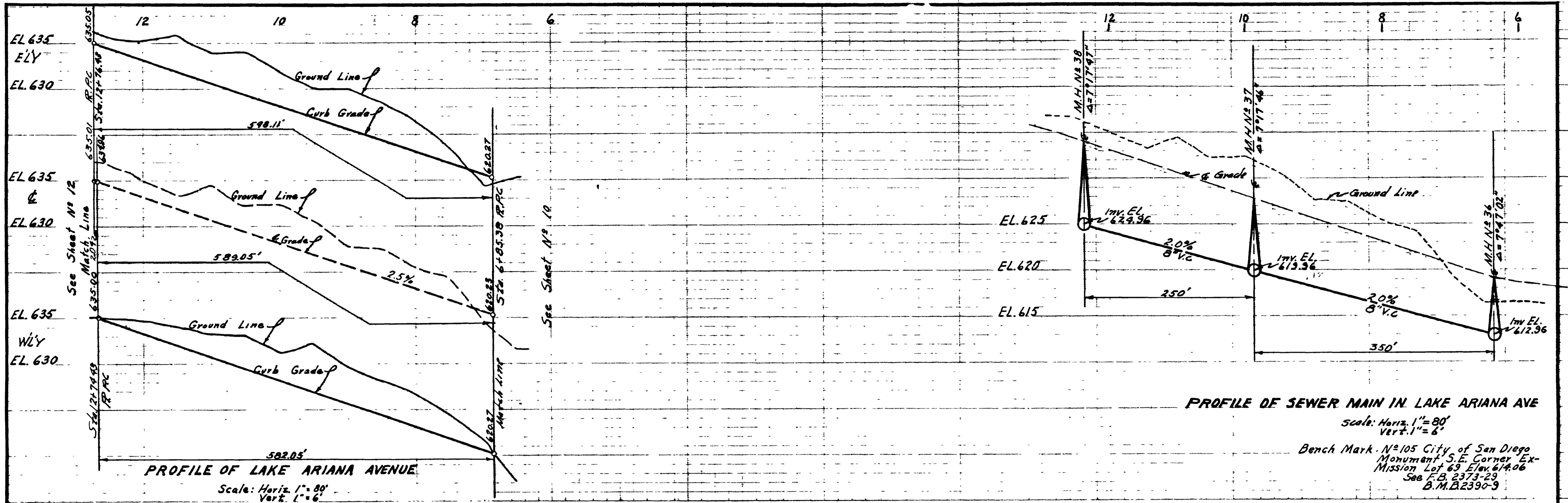


CITY DATUM  
 ADD 6.117 FEET  
 TO CONVERT TO  
 MEAN SEA LEVEL

Revised To As Built Sept 25, 1959  
 Approved By \_\_\_\_\_ Date \_\_\_\_\_

CONSTRUCTION		RECORD	
CONTRACTOR DENNIS CONSTCO.	INSPECTOR BIRDSELL	W O No. 24577	
DATE STARTED 11-29-58	REVISION As Built 10-22-59 Eub		
DATE COMPLETED 8-28-59			





Scale: 1"=40'

CITY DATUM  
ADD 619 FEET  
TO CONVERT TO  
MEAN SEA LEVEL

PRIVATE CONTRACT  
ENGINEER OF WORK *E. F. Patterson* R.E.10410

WATER DEPARTMENT	CONSTRUCTION	RECORD	W O No 24576
SEWER DEPARTMENT	CONTRACTOR: V.R. DENNIS CONSTR. Co.	INSPECTOR: BURDELL	
DRAINAGE	DATE STARTED: 8-5-58	REVISION: As Built	
FIELD CHECK	DATE COMPLETED: 8-12-59		
OFFICE CHECK			
PLANNING COMMISSION			
GRADER			

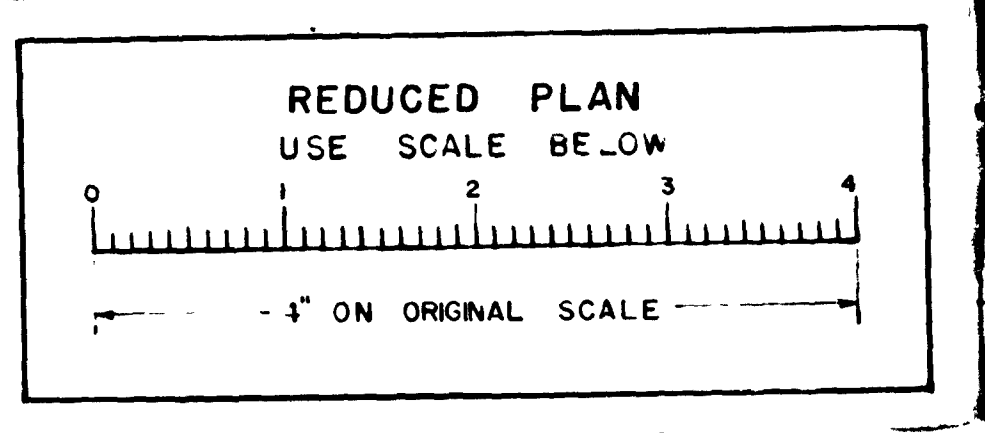
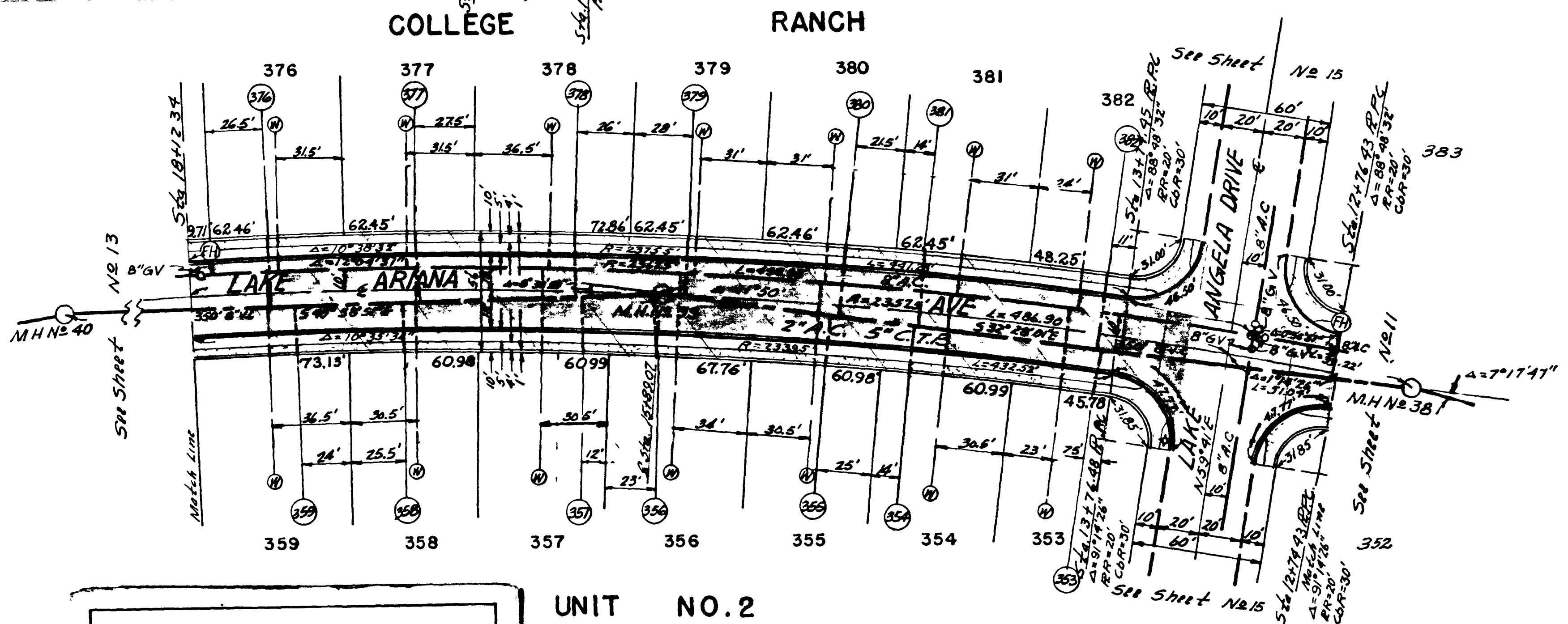
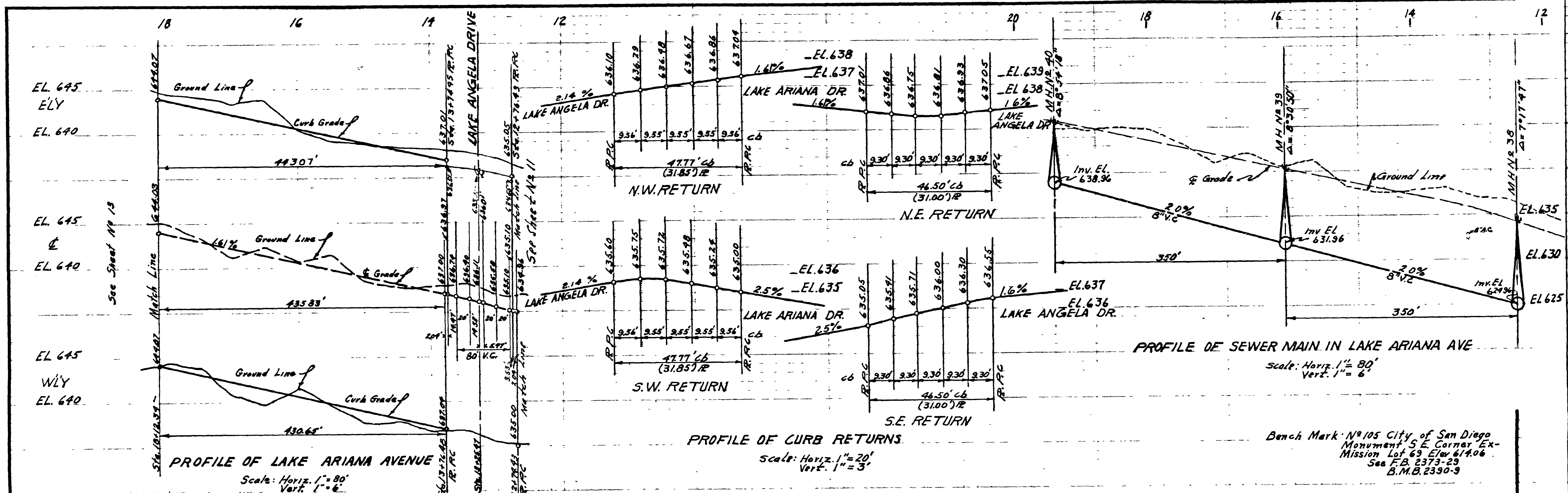
11 CITY OF SAN DIEGO ENGINEERING DEPARTMENT 17

**LAKE ARIANA AVE**  
**COLLEGE RANCH UNIT NO. 2**

APPROVED: *E. F. Patterson* CITY ENGINEER DATE: 7/25/58 SCALE: As Noted

MADE BY: MICROFILMED DRAWING NUMBER: 14079L  
CHECKED BY: FIELD BOOKS MAY 23 1959

REVISIONS	CONSTRUCTION	RECORD	W O No 24576
Revised "AS BUILT"	8-26-59		



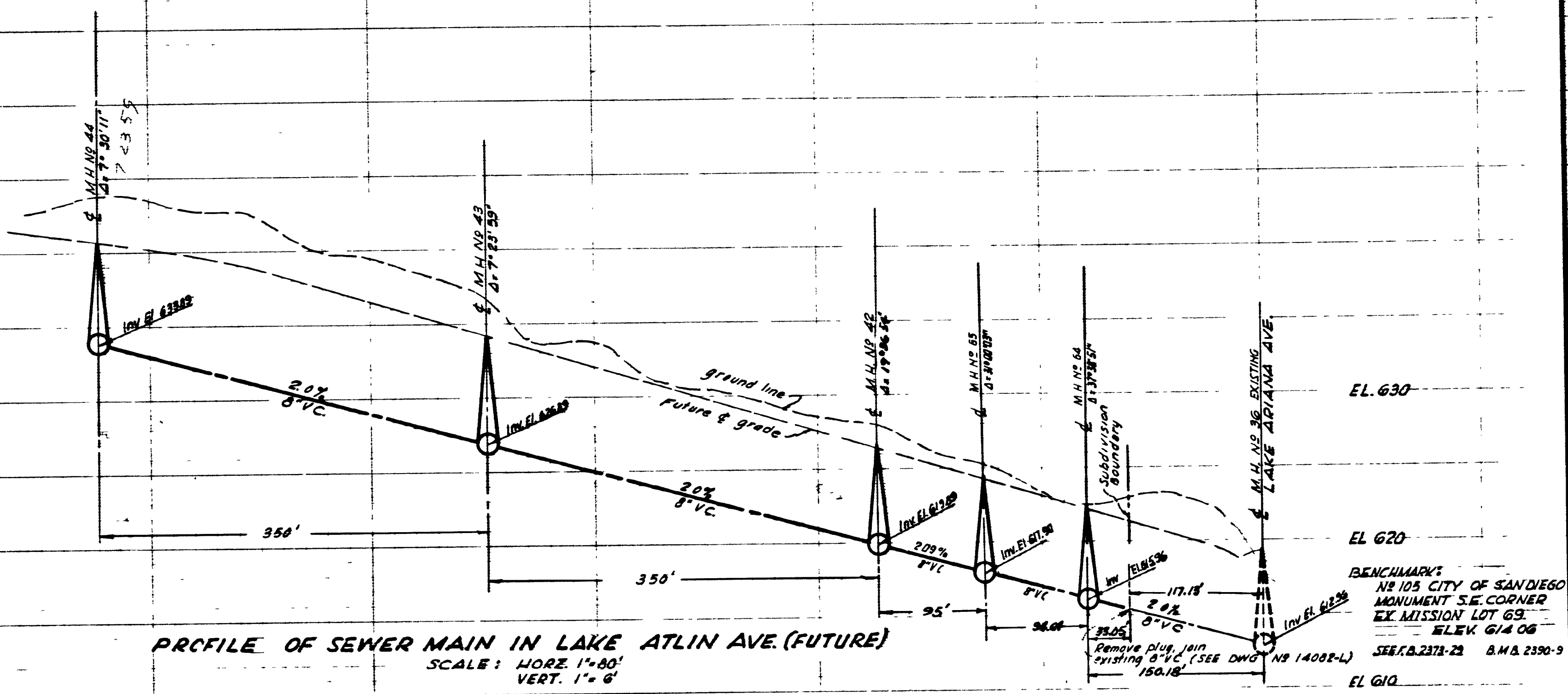
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CITY DATUM  
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MEAN SEA LEVEL

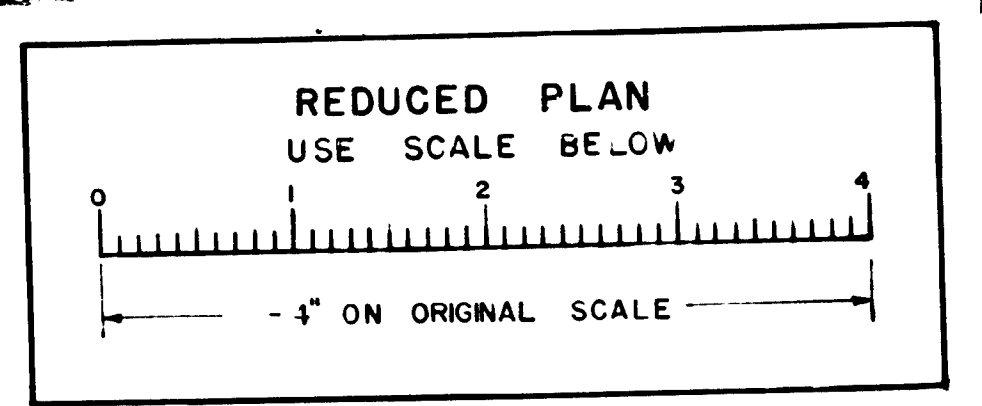
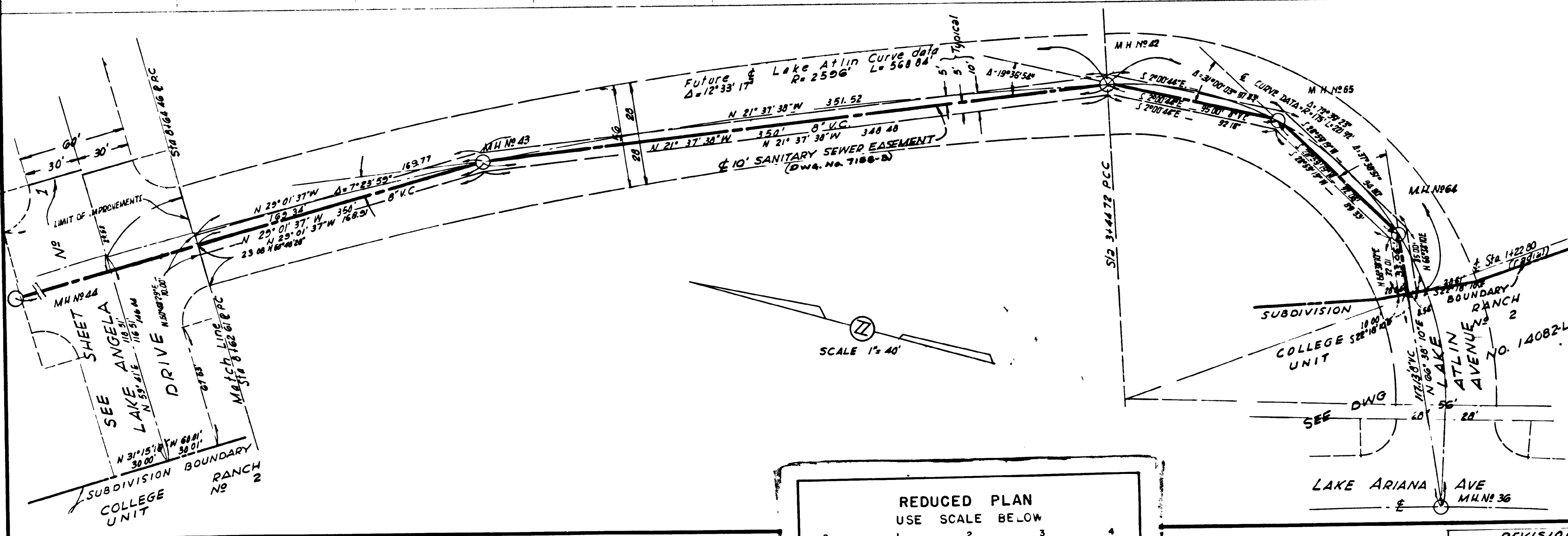
PRIVATE CONTRACT ENGINEER OF WORK *M.A. Peltier* RE 1040

12	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>LAKE ARIANA AVE.</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED <i>C.F. Gorman</i> CITY ENGINEER	DATE: 7/25/59 SCALE: As Noted	REVISIONS
DRAWN BY TRACED BY CHECKED BY FIELD ENGINEER	DATE: MAY 28 1959	CONSTRUCTION RECORD W O No. 2276
DRAWING NUMBER <b>14080-L</b>		CONTRACTOR: V.R. DENNIS CONTR. CO. INSPECTOR: BIRDSELL DATE CHANGED: 8-5-58 REVISIONS: As Built DATE COMPLETED: 8-12-59

REVISIONS	CONSTRUCTION RECORD	W O No. 2276
Revised "AS BUILT"	8-29-59	



PROFILE OF SEWER MAIN IN LAKE ATLIN AVE (FUTURE)  
 SCALE: HORIZ. 1"=80'  
 VERT. 1"=6'

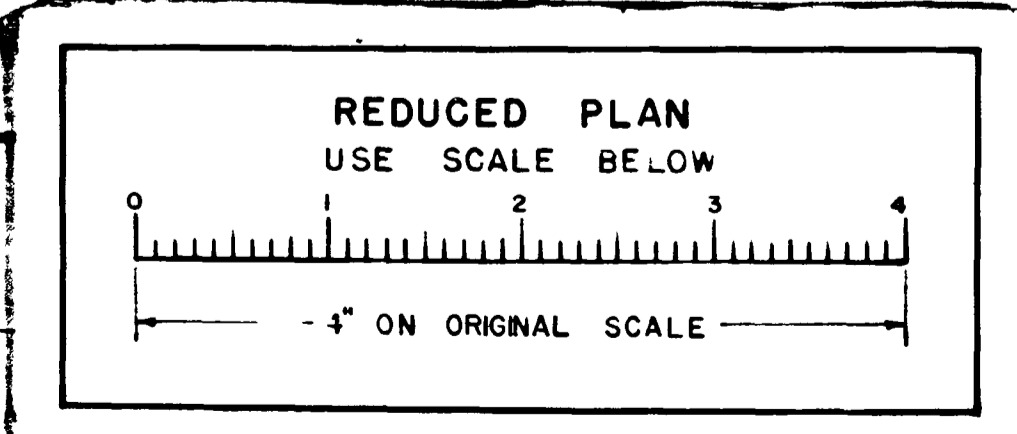
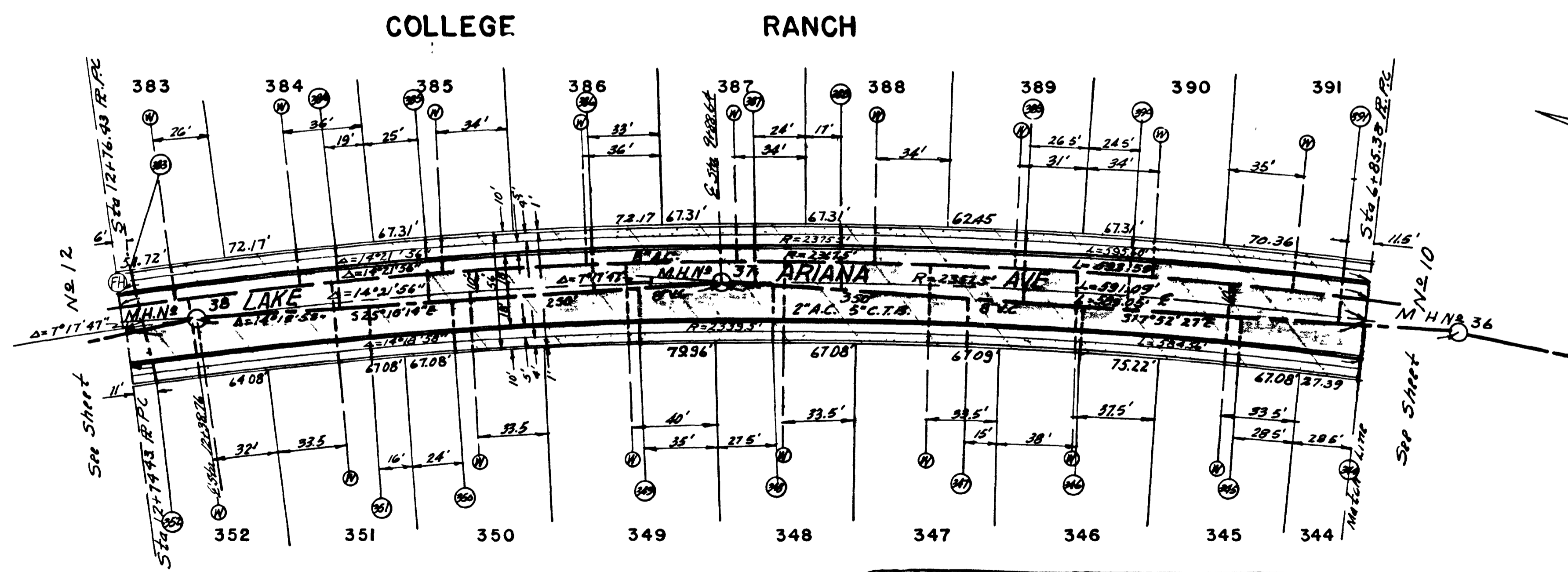
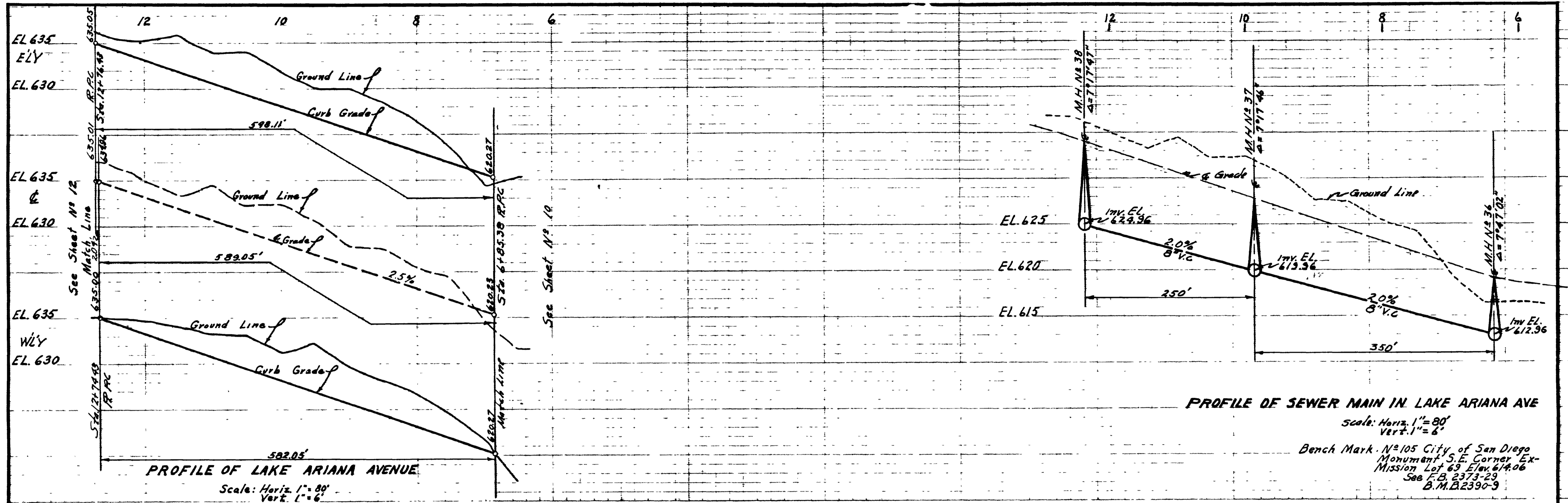


CITY DATUM  
 ADD 6119 FEET  
 TO CONVERT TO  
 MEAN SEA LEVEL

PRIVATE CONTRACT  
 ENGINEER OF WORK *J.A. Peters* RE.10410

3	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	3
LAKE ANGELA DRIVE et al. LAKE ATLIN AVE et al. SEWER		
APPROVED	<i>E. F. Johnston</i> CITY ENGINEER	DATE 11/29/58
DRAWN BY	TRACED BY	CHECKED BY
FIELD BOOK	FIELD BOOK	FIELD BOOK
CHANGED	DATE	DRAWING NUMBER
		14117 L

REVISIONS	CO. "RUCTION RECORD	W O NO 20020
Revised "AS BUILT"	CONTRACTOR <i>Dennis Const Co</i>	INSPECTOR <i>Birdsell</i>
	DATE STARTED 11-29-58	REVISION <i>As Built</i> 10-21-58 <i>EAC</i>
	DATE COMPLETED 8-28-59	



PRIVATE CONTRACT ENGINEER OF WORK *E.F. Patterson* R.E.10410

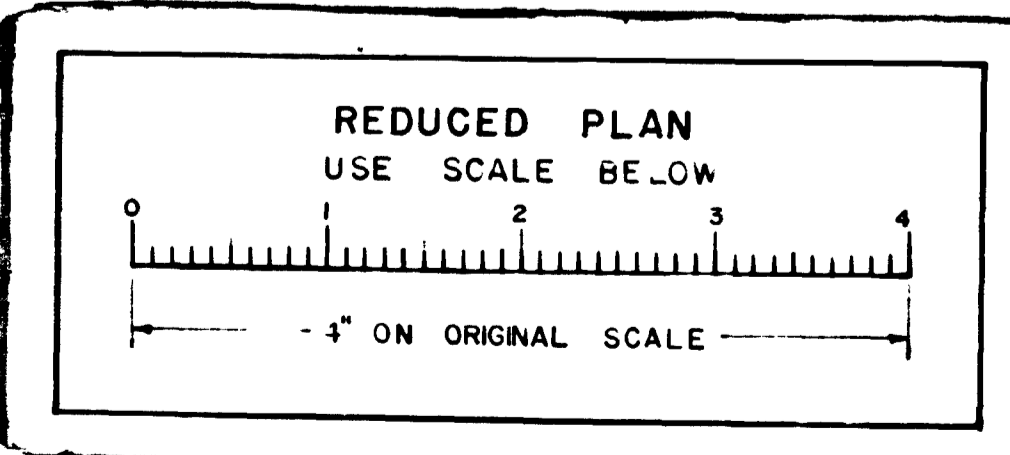
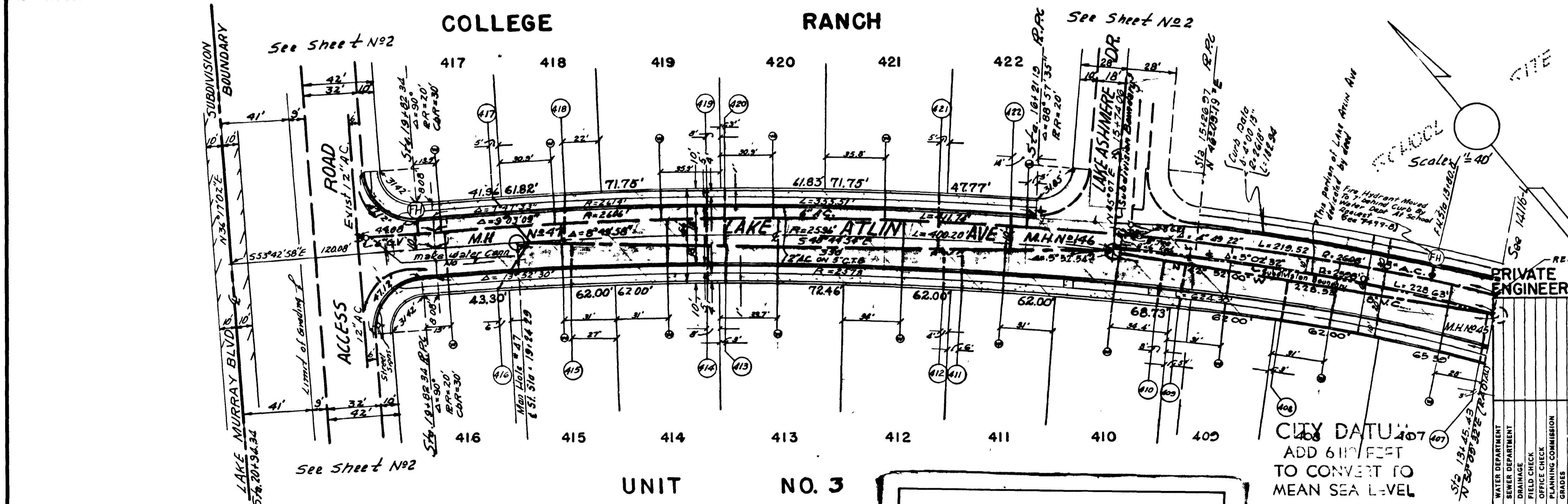
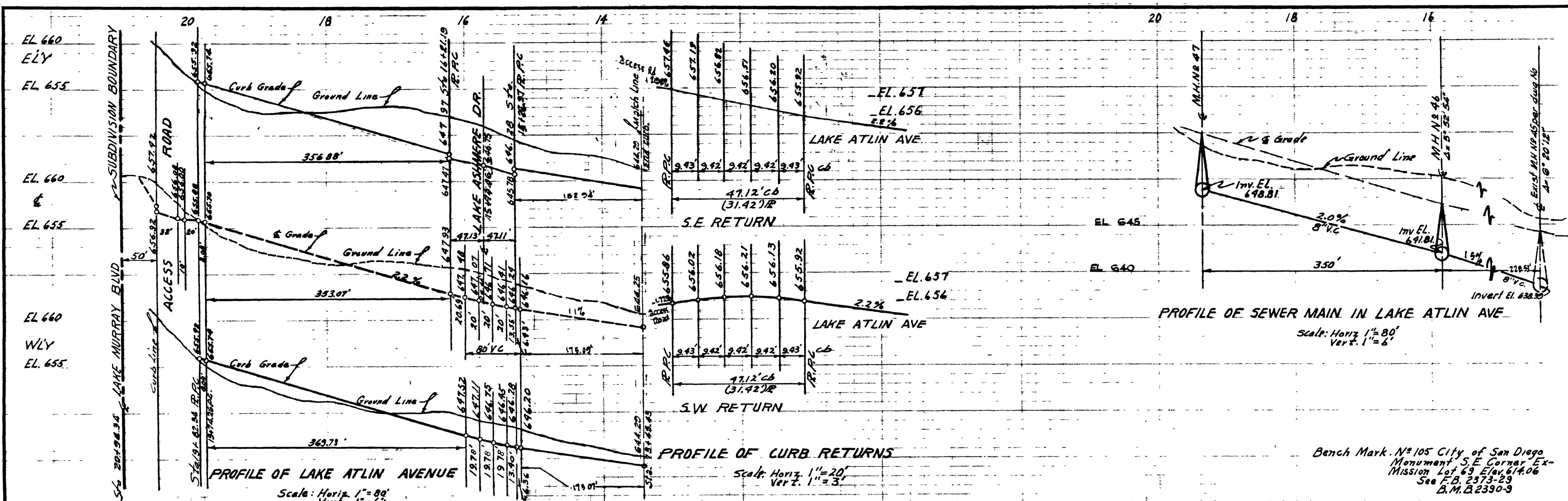
WATER DEPARTMENT	CONSTRUCTION	RECORD	W O No 2476
SEWER DEPARTMENT	CONTRACTOR: V.R. DENNIS CONSTR. Co.	INSPECTOR: BIRDSELL	
DRAINAGE	DATE STARTED: 8-5-58	REVISION: As Built	
FIELD CHECK	DATE COMPLETED: 8-12-59		
OFFICE CHECK			
PLANNING COMMISSION			
GRADER			

LAKE ARIANA AVE  
COLLEGE RANCH UNIT NO. 2

APPROVED: *E.F. Patterson* CITY ENGINEER  
DATE: 7/25/58  
SCALE: As Noted

MADE BY: MICROFILMED  
CHECKED BY: 14079L  
FIELD BOOKS: MAY 23 1959

REVISIONS	CONSTRUCTION	RECORD	W O No 2476
Revised "AS BUILT"	8-26-59		



ENGINEER OF WORK *J. A. Patterson* R E 10410

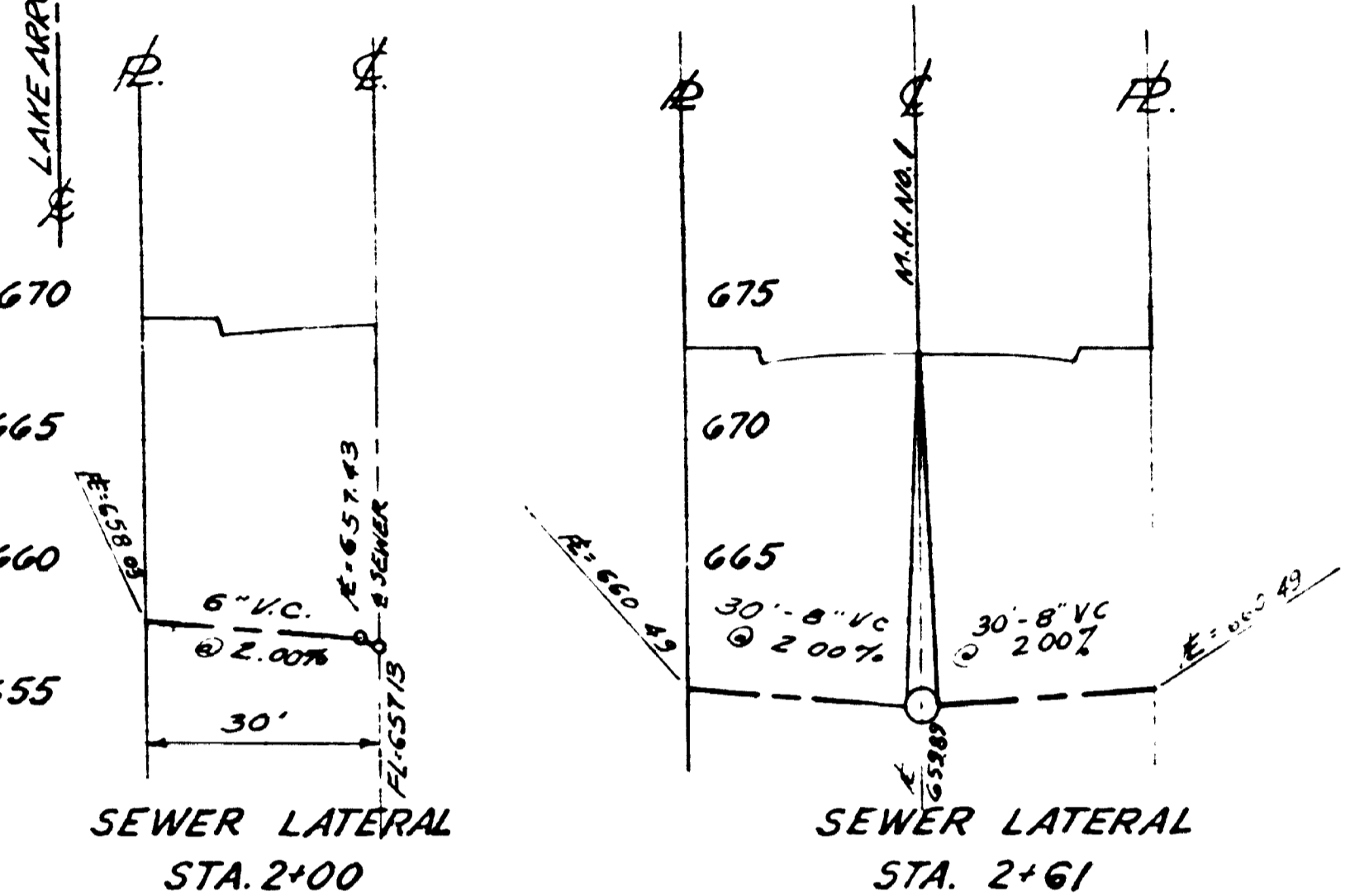
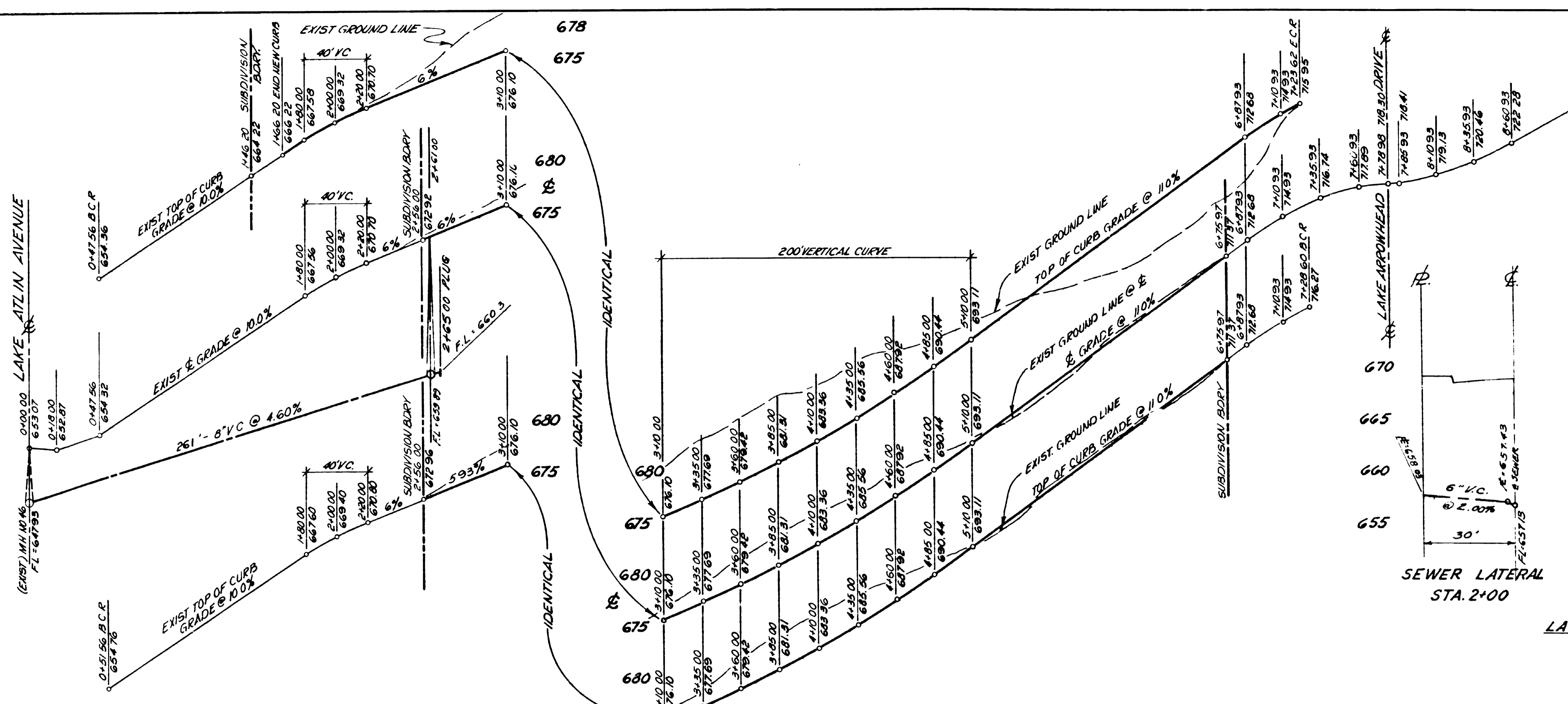
3	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	12
<b>LAKE ATLIN AVE.</b>		
<b>COLLEGE RANCH UNIT NO. 3</b>		
APPROVED	<i>E. J. Patterson</i> CITY ENGINEER	DATE 12/8/58 SCALE As Noted
DRAWN BY	CHANGED	DATE
TRACED BY	PROFILMED	DRAWING NUMBER
CHECKED BY		14247-L
FIELD BOOKS		

Revised To As Built Sept 25, 1959

CONSTRUCTION RECORD	W O No 24577
CONTRACTOR DENNIS CONSLCO	INSPECTOR BIRDSELL
DATE STARTED 11-29-58	REVISIONS 12 BUILT 10-22-59 EUB
DATE COMPLETED 8-28-59	

Approved By \_\_\_\_\_ Date \_\_\_\_\_

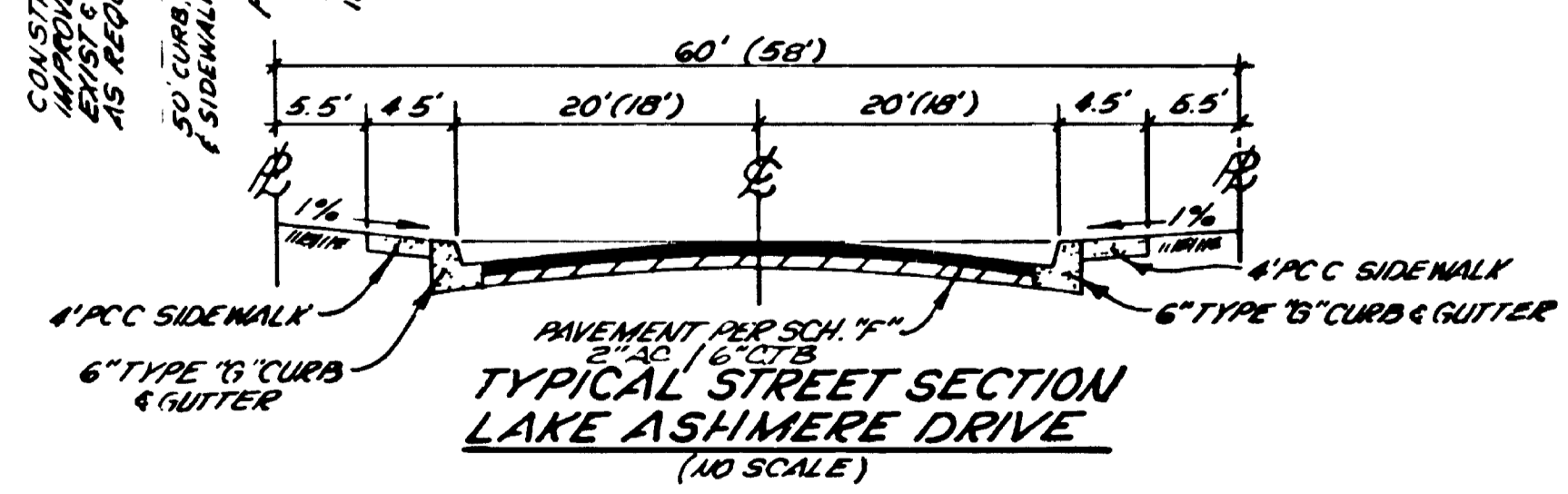
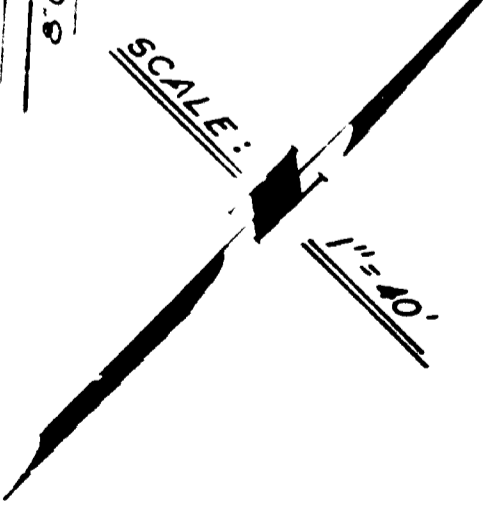
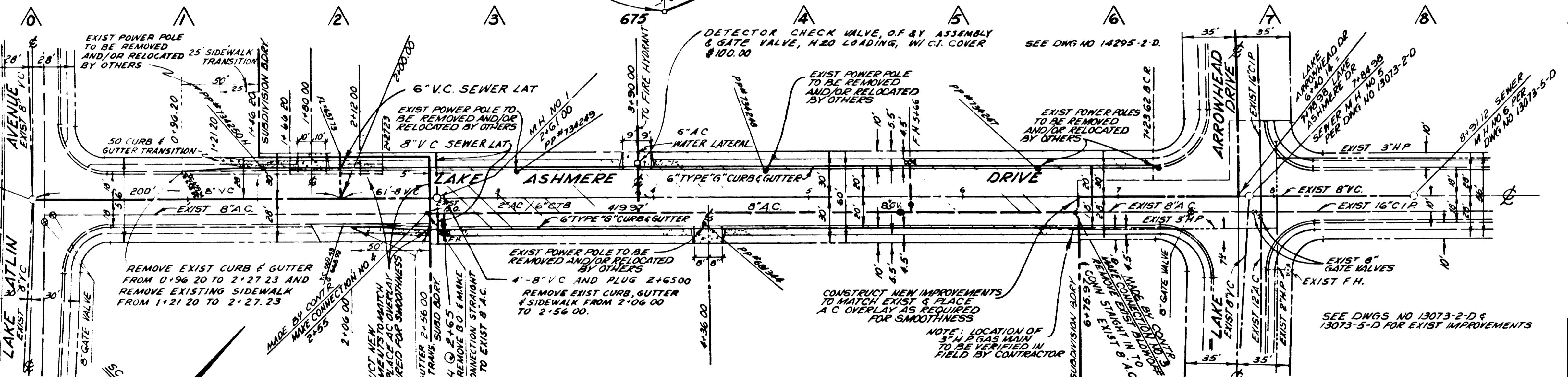
660  
N.Y. CURB  
655  
660  
650  
660  
S.Y. CURB  
655



LATERAL PROFILE  
Scale Hor. 1"=20'  
Ver. 1"=5'

**BENCH MARK**  
5 W B M LAKE MURRAY BLVD & SAN CARLOS DR  
ELEV. 674.78

**NOTE:**  
THIS DWG SUPERSEDES  
DWG NO 11708-4-D



**NASLAND ENGINEERING**  
CIVIL ENGINEERING · SURVEYING · LAND PLANNING  
2100 UNIVERSITY AVENUE SAN DIEGO, CALIFORNIA 92104  
291-7760

SCALE: 1"=40'  
DESIGNED BY: NWH  
CLIENT: SPEN - BUSHPK

DATE: 4-24-70  
DRAWN BY: NWH  
JOB NO.: 1030-70

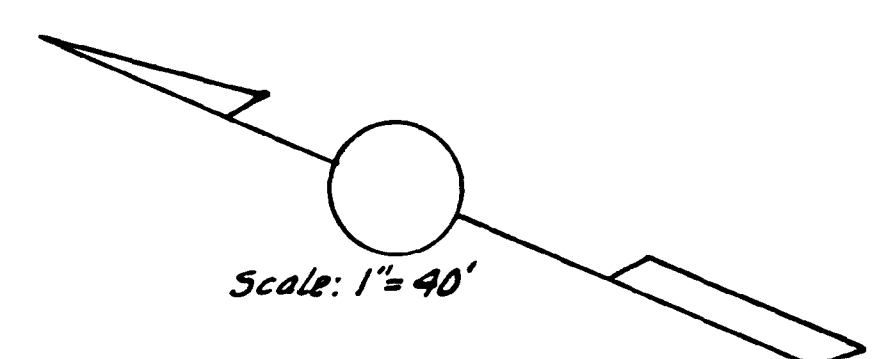
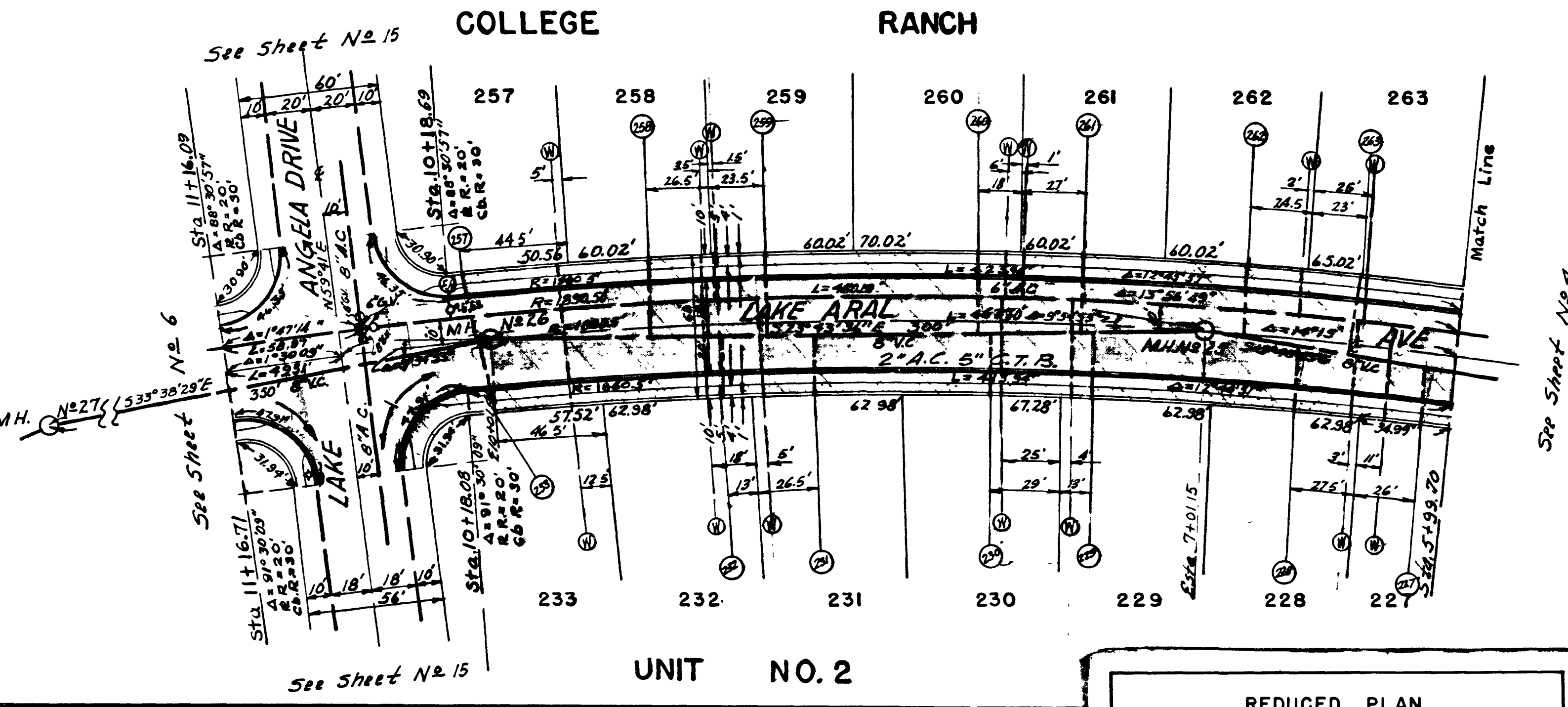
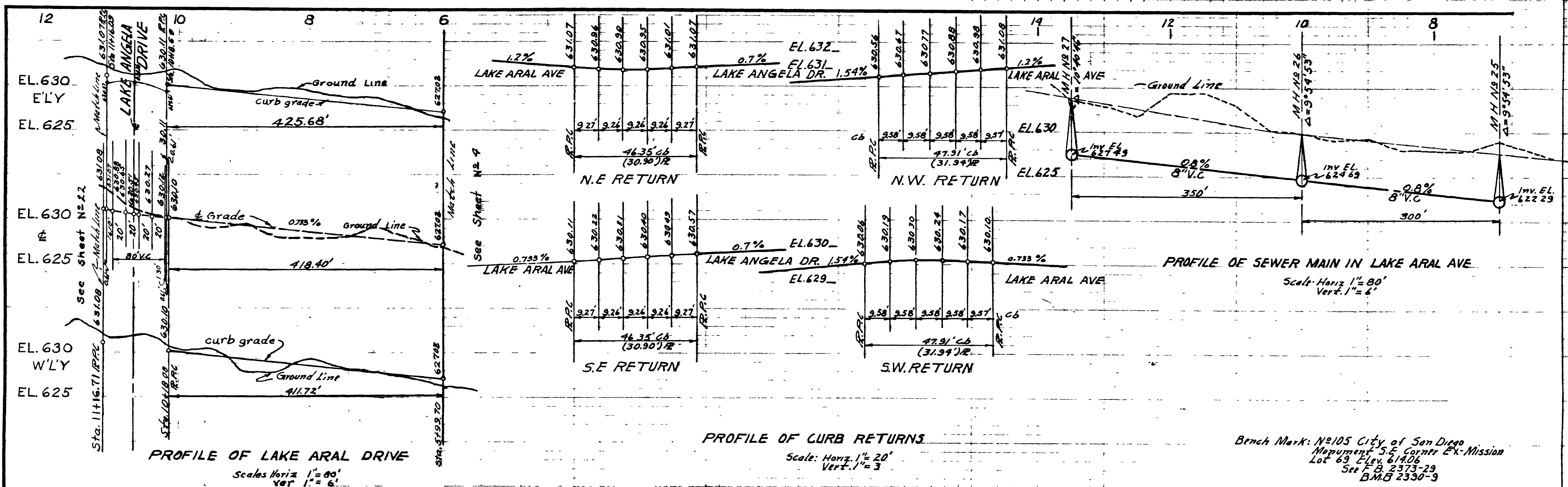
10-4-71  
5/22/70  
DATED

APPROVALS	
DEPARTMENTAL PLANNING	ENG. DEPT. DIVISION OR SECTION INSPECTION
PROPERTY	ELECTRICAL
PUBLIC WORKS	FIELD CHECK
RECREATION	GRADES AND DRAINS
UTILITIES	HIGHWAYS
STRUCTURAL	MONUMENTS
TRAFFIC	PAVING
WATER	SEWERAGE
	STREET ACTIONS

**PRIVATE CONTRACT**  
**PLANS FOR THE IMPROVEMENTS OF A PORTION OF LAKE ASHMERE DR.**  
MURRAY VILLA PARK, MAP NO. 6962

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 3 OF 3 SHEETS	TM 69-73/ NO 78001
<i>J.P. Carey</i> 8-25-70	DIVISION HEAD
DESCRIPTION BY APPROVED DATE FILED	DESIGN ENGINEER
ORIGINAL AS BUILT	CONTROL CERTIFICATION 290-1765 LAWRENCE L. HARRIS
CONTRACTOR: S/M HARRIS INSPECTOR: L. BIRDSELL	DATE STARTED: 7-70 DATE COMPLETED: 9-19-70 142953-D

**AS BUILT**

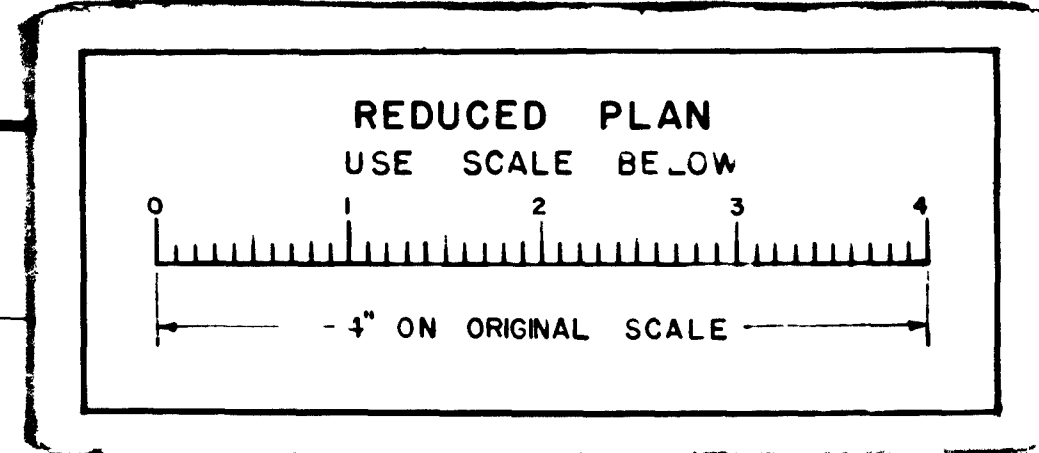


Bench Mark: N=105 City of San Diego Monument S.E. Corner Ex-Mission Lot 69 Elev. 614.06 See F.B. 2375-29 B.M.G. 2330-9

PRIVATE CONTRACT ENGINEER OF WORK *J.A. Peterson* R.E.10410

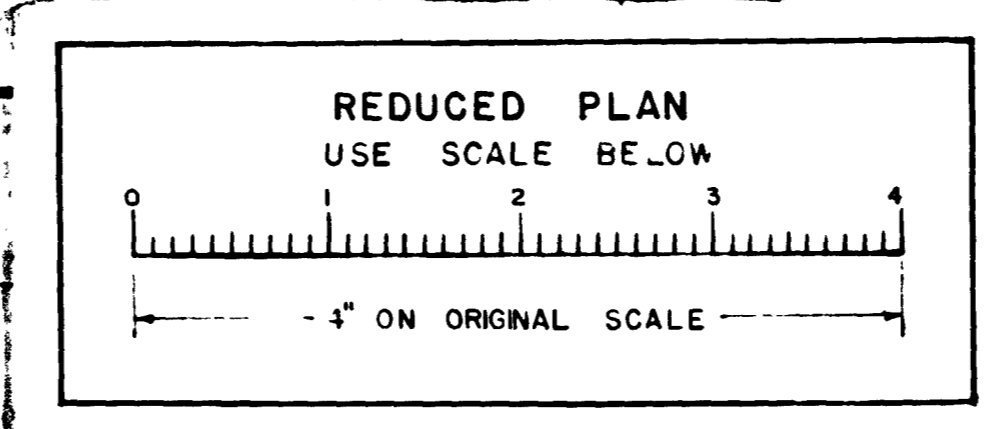
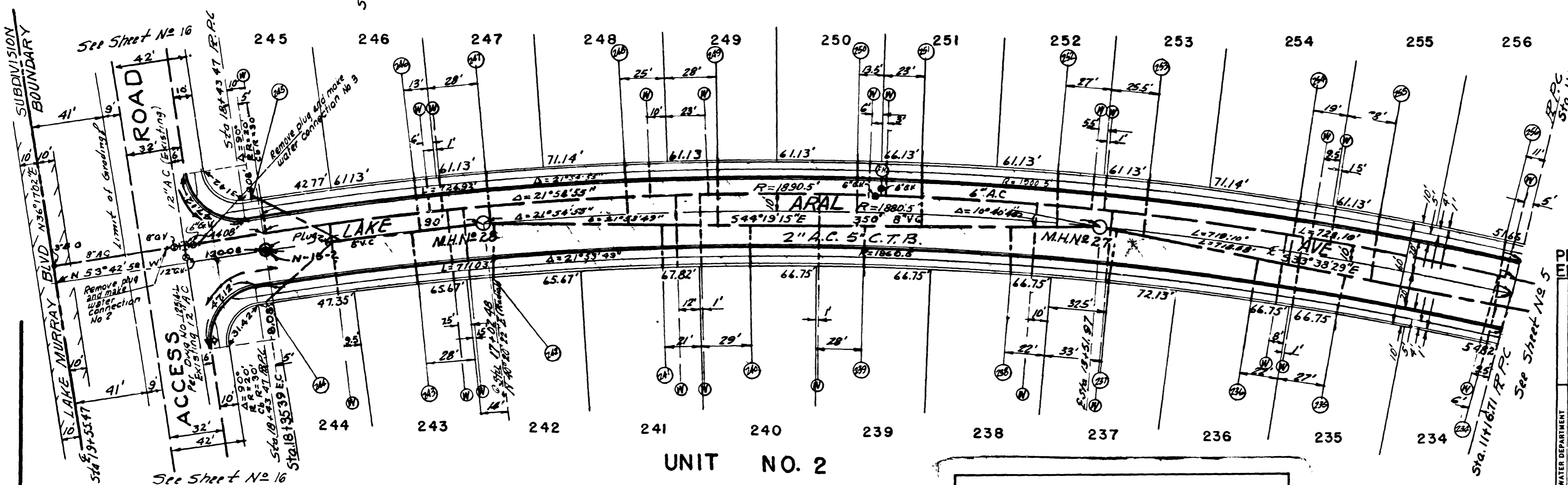
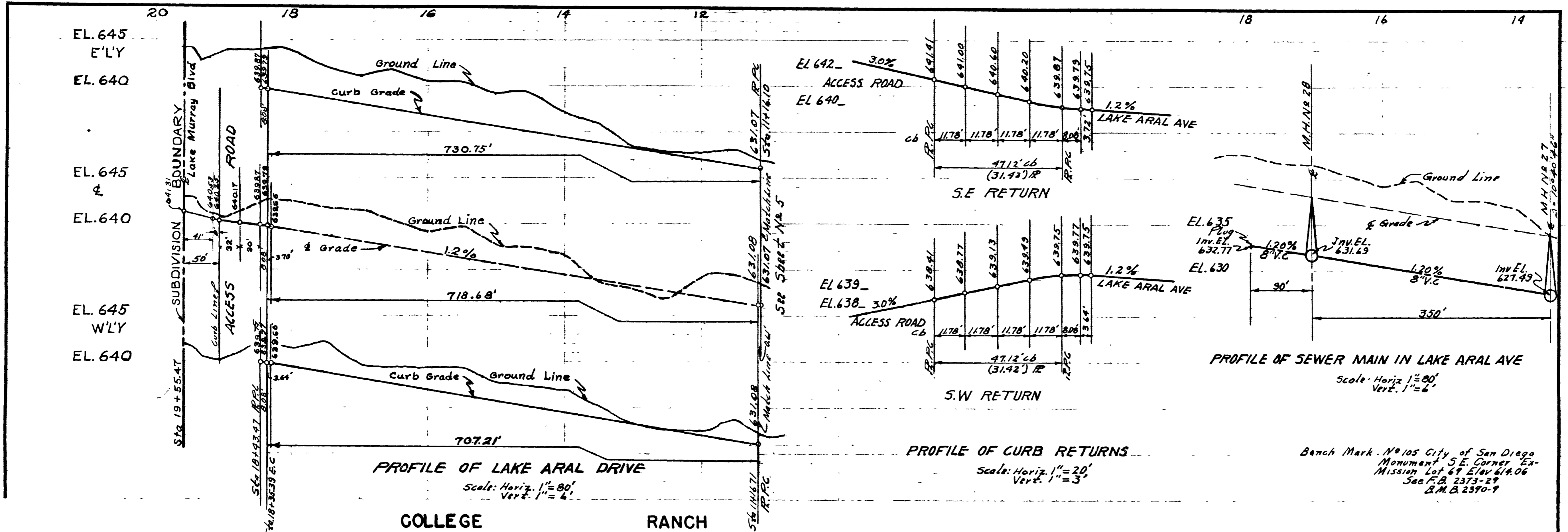
5	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>LAKE ARAL AVE.</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED: <i>E.J. Johnson</i>	CITY ENGINEER	DATE: 7/25/59
SCALE: <i>As Noted</i>	DRAWING NUMBER: 14073-L	
DATE: 7-23-59	W O No 24576	

CITY DATUM  
ADD 6.119 FEET  
TO CONVERT TO  
MEAN SEA LEVEL



REVISIONS	CONSTRUCTION	RECORD	W O No 24576
Revised "AS BUILT"	9-25-59	CONTRACTOR: V.R. DENNIS CONSTRUCTION	INSPECTOR: BIRDSELL
		DATE STARTED: 8-5-58	REVISIONS: <i>As Built</i> DATE: 10-21-59
		DATE COMPLETED: 8-12-59	

A-3617



Scale: 1" = 40'

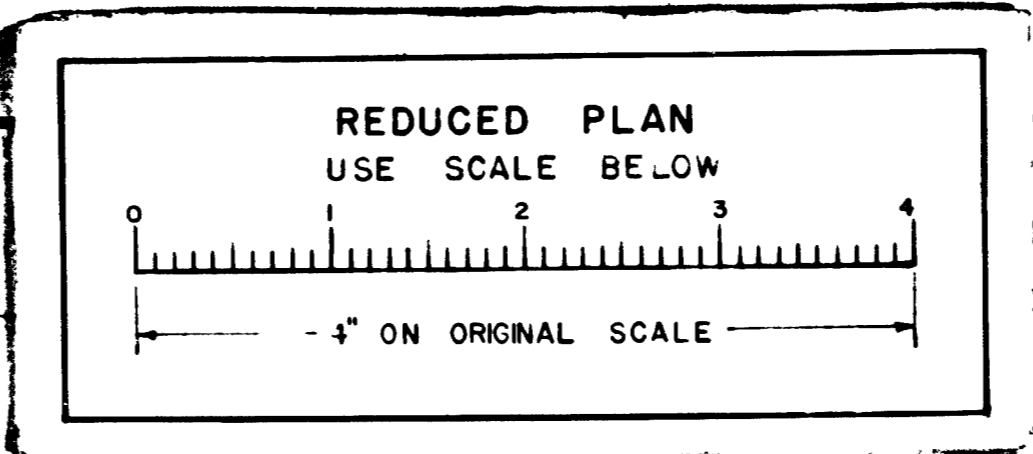
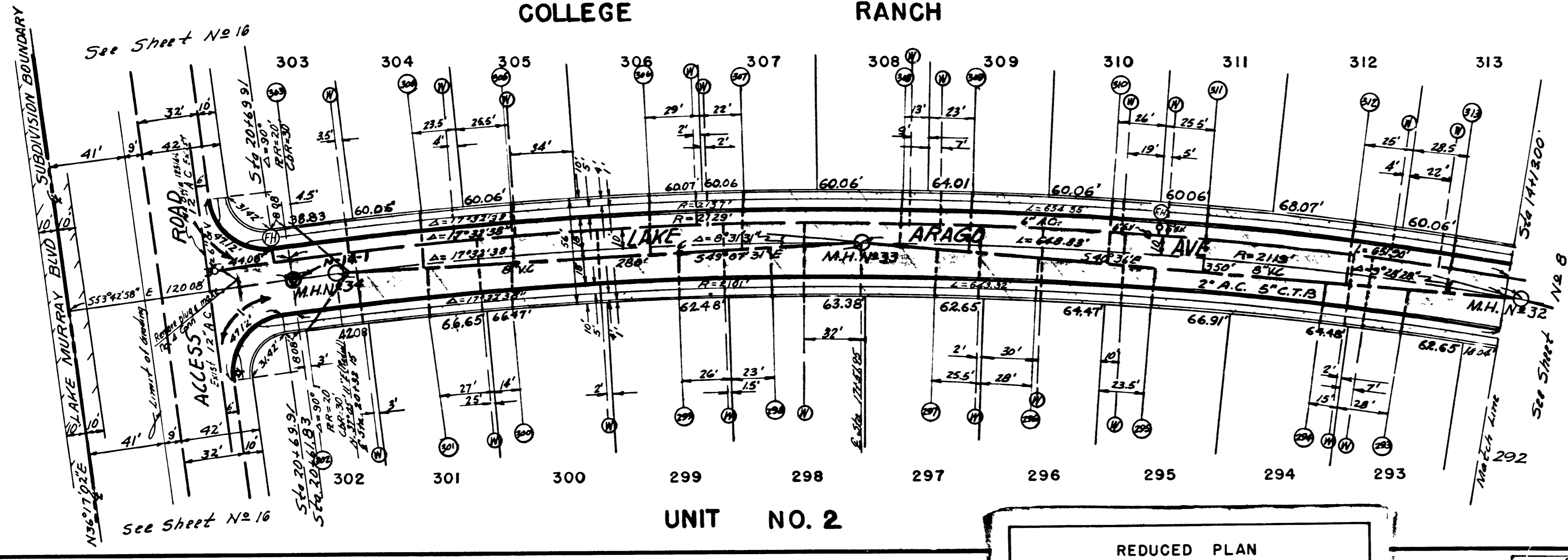
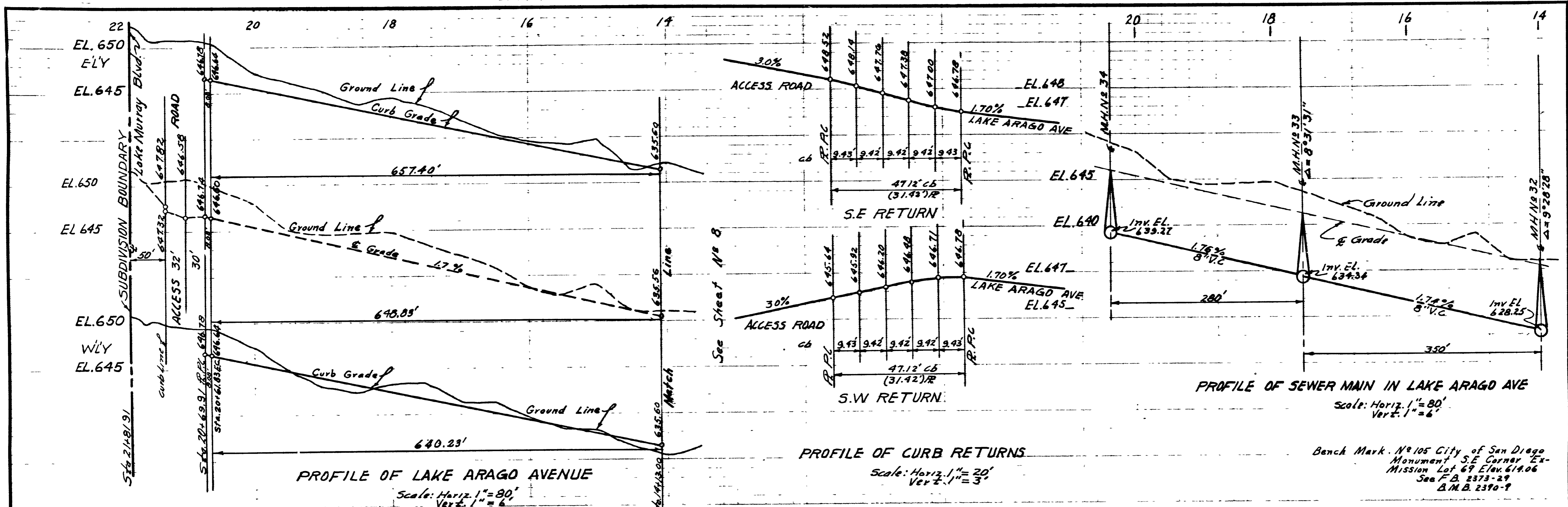
CITY DATUM  
ADD 6.119 Feet  
TO CONVERT TO  
MEAN SEA LEVEL

PRIVATE CONTRACT ENGINEER OF WORK *J.A. Patterson* RE 10410

6	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>LAKE ARAL AVE.</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED <i>E.F. Johnson</i> CITY ENGINEER	DATE 7/25/59	SCALE As Noted
DRAWN BY CHECKED BY FIELD BOSS	COMPILED MAY 23 1959	DRAWING NUMBER <b>14074-L</b>

REVISIONS	CONSTRUCTION	RECORD	W O No
Revised "AS BUILT"	9-25-58	CONTRACTOR: V.R. DENNIS CONSTR. Co. INSPECTOR: BIRDSELL	22516
	DATE STARTED: 8-5-58	REVISION: AS BUILT DATE: 10-21-58	
	DATE COMPLETED: 8-12-59		

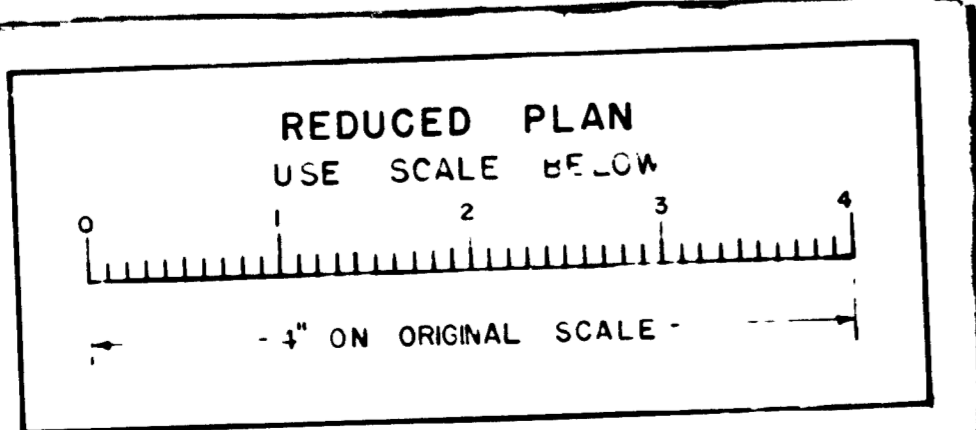
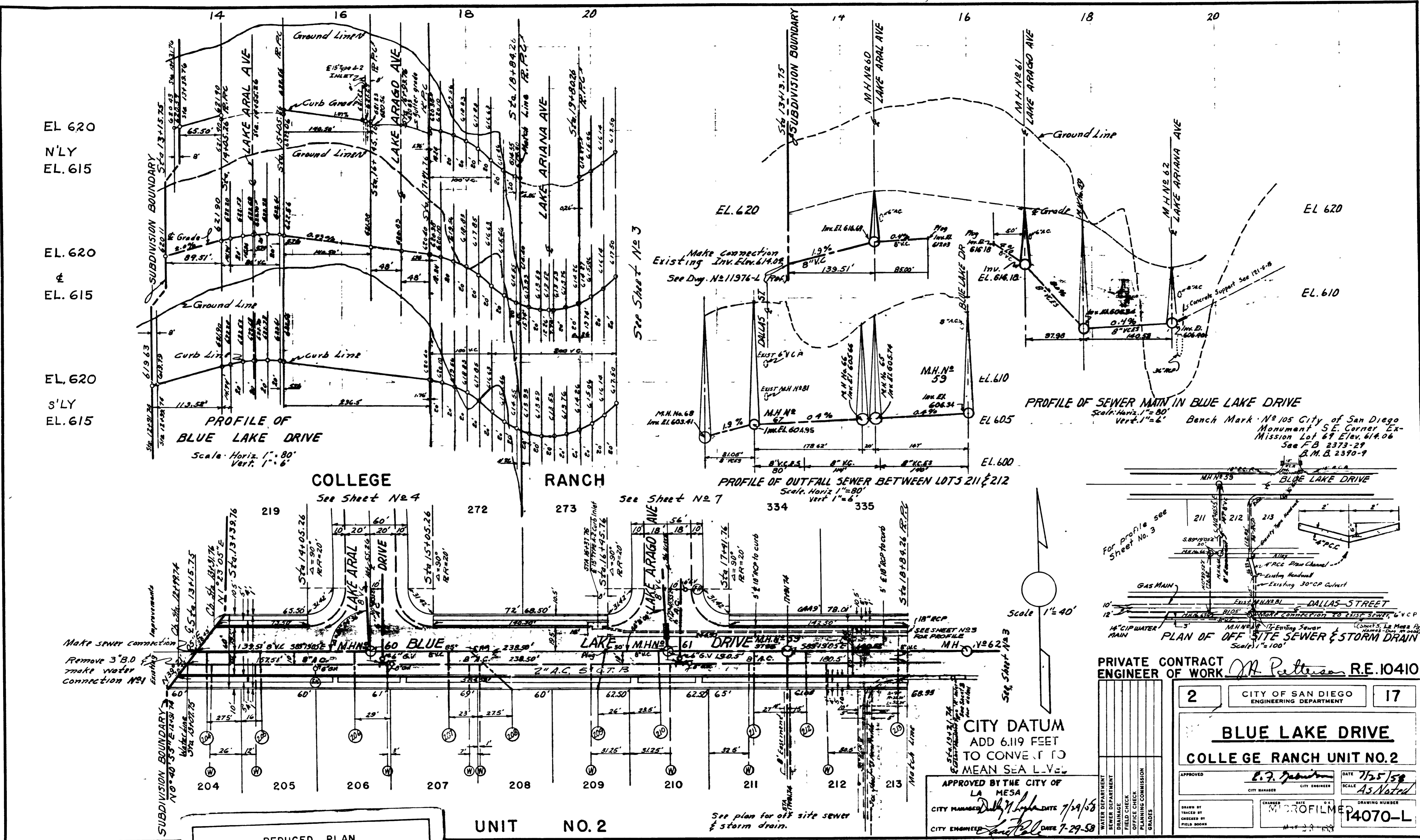




PRIVATE CONTRACT  
ENGINEER OF WORK *M. Peterson* R.E.10410

9	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>LAKE ARAGO AVE.</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED <i>E. F. Johnson</i> CITY ENGINEER	DATE 1/25/59	SCALE As Noted
DRAWN BY CHECKED BY FIELD BOOKS	PHOTOFILMED MAY 28 1963	DRAWING NUMBER 14077-L

REVISIONS	CONSTRUCTION RECORD	W O No 2476
Revised "AS BUILT"	9-26-58	
	CONTRACTOR: V.R. DENNIS CONCRETE Co	INSPECTOR: B. ROSELL
	DATE STARTED: 8-5-58	REVISIONS: AS BUILT 10-21-59, 206
	DATE COMPLETED: 8-12-59	



PRIVATE CONTRACT ENGINEER OF WORK *M. Patterson* R.E. 10410

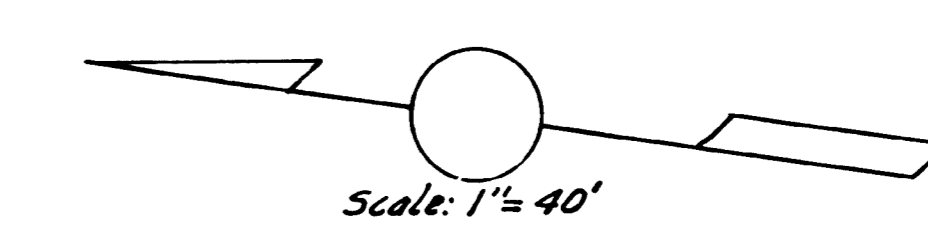
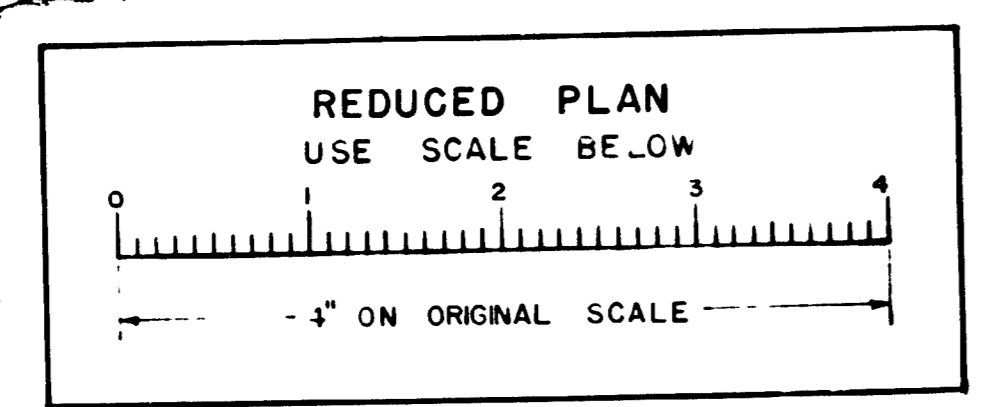
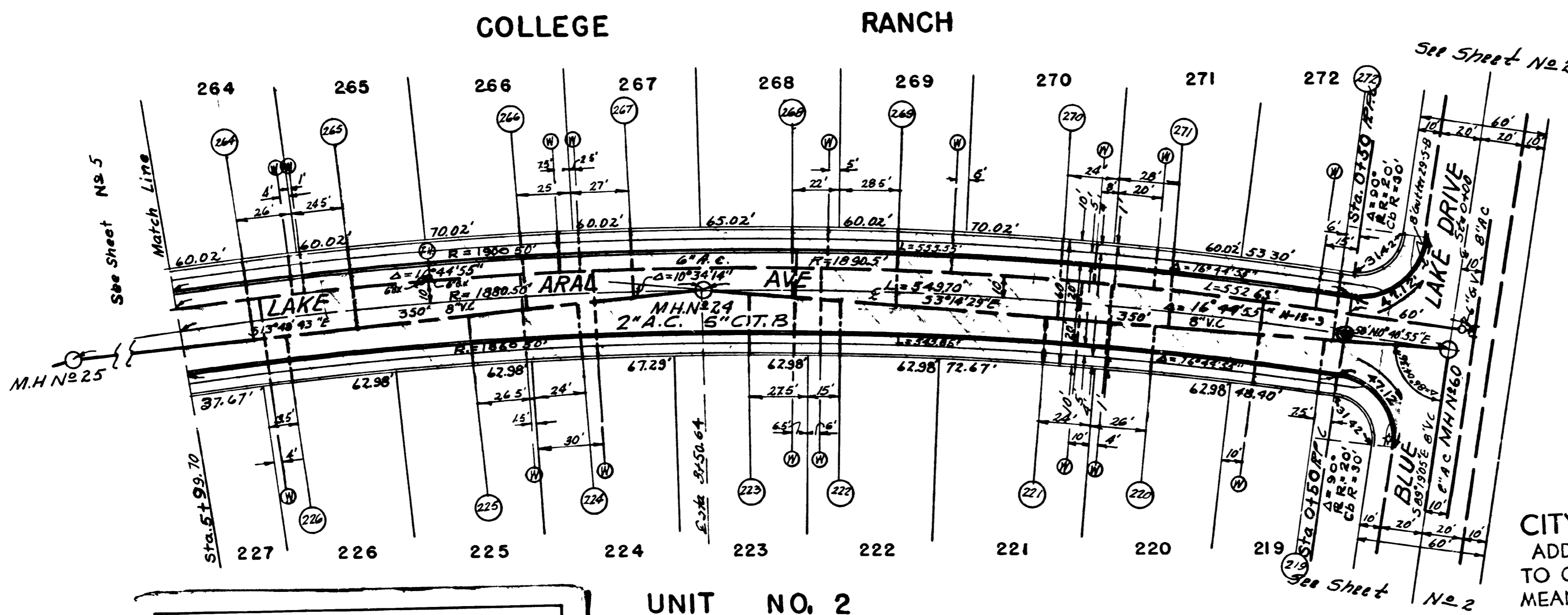
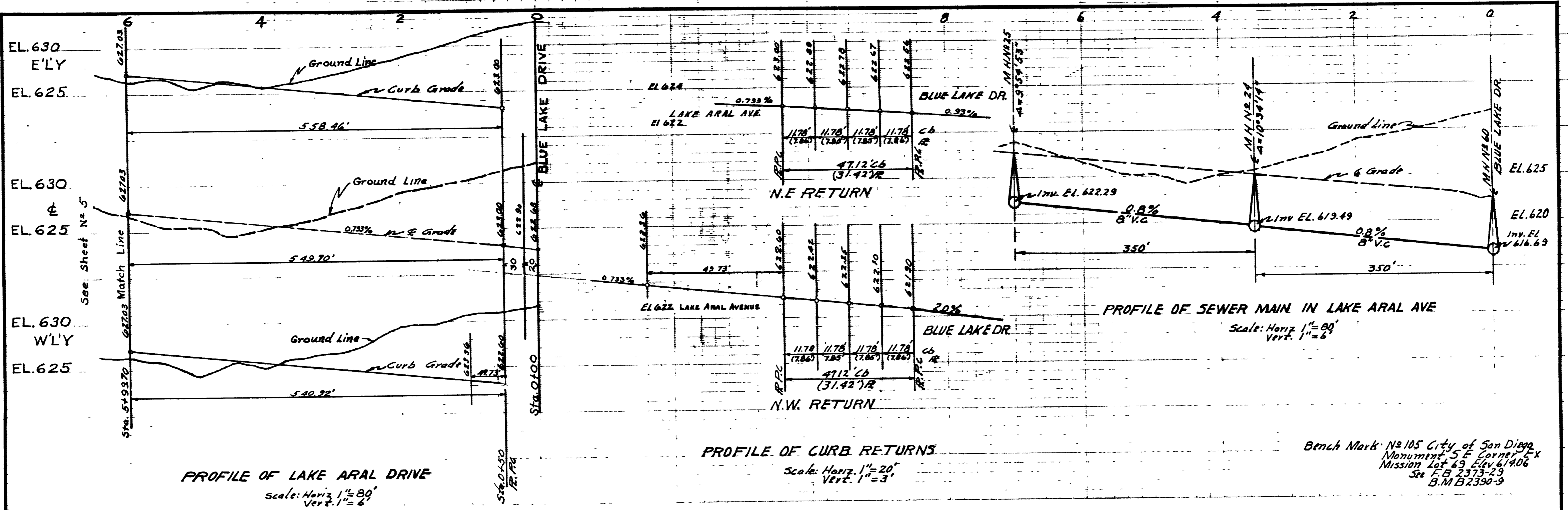
2	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>BLUE LAKE DRIVE</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED	<i>E.F. Johnson</i> CITY ENGINEER	DATE 7/25/58
SCALE	As Noted	
DRAWN BY	DATE	DRAWING NUMBER
CHECKED BY		MICROFILMED 14070-L
FIELD BOOKS		

CITY DATUM  
ADD 6.119 FEET  
TO CONVERT TO  
MEAN SEA L.V.L.

APPROVED BY THE CITY OF  
LA MESA  
CITY MANAGER *Dolly J. Lopez* DATE 7/29/58  
CITY ENGINEER *Paul J. ...* DATE 7-29-58

REVISIONS	CONSTRUCTION RECORD	W O No 24516
Revised "AS BUILT"	9-18-59	CONTRACTOR Y.R. DENNIS CONSTR. Co. INSPECTOR BIRDSELL
	DATE STARTED 8-5-58	REVISIONS As BUILT 10-21-59, 4-68
	DATE COMPLETED 8-12-59	

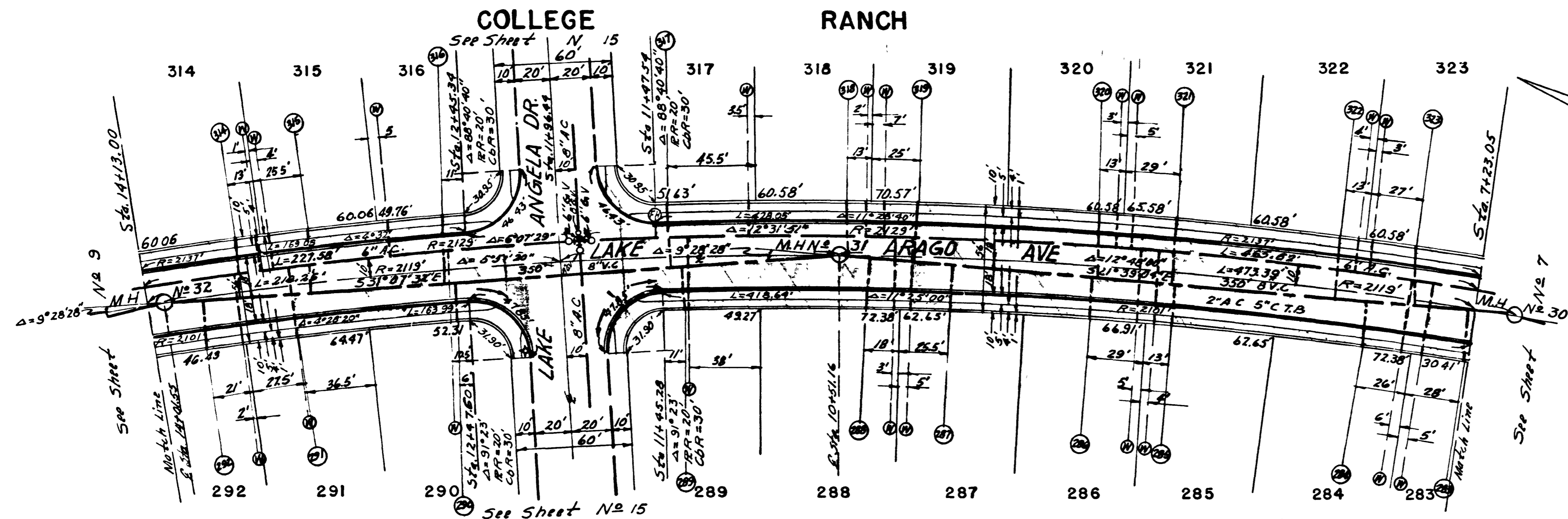
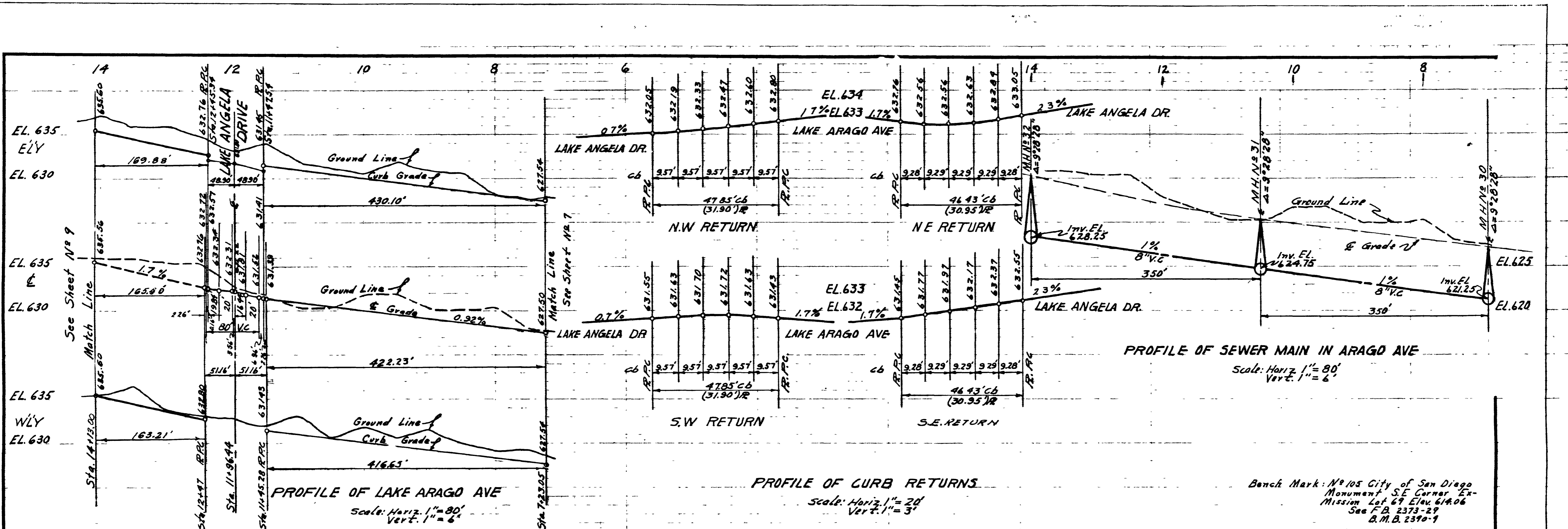
A-3617



PRIVATE CONTRACT ENGINEER OF WORK *J.A. Peterson* R.E.10410

4	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>LAKE ARAL AVE.</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED <i>E. F. Johnson</i> CITY ENGINEER	DATE 7/25/59	SCALE As Noted
DRAWN BY CHECKED BY FIELD BOOKS	CHANGED BY DATE REVISIONS	DRAWING NUMBER <b>14072-L</b>

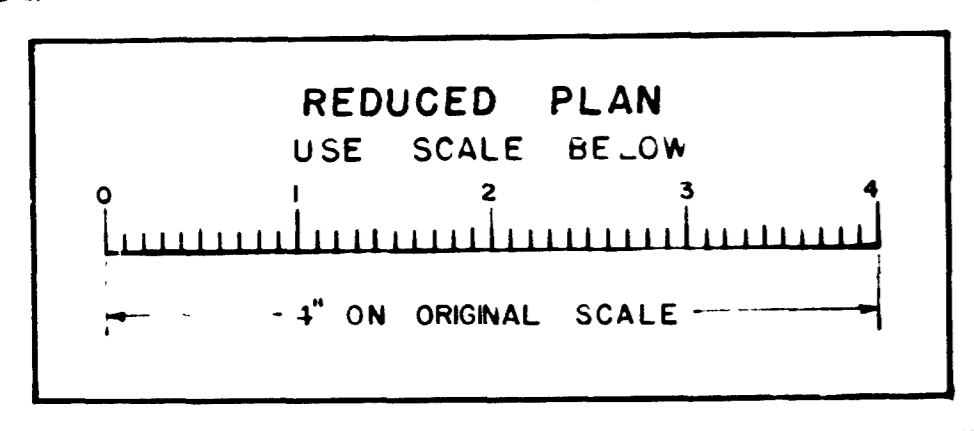
REVISIONS		CONSTRUCTION RECORD		W O No 24576
Revised "AS BUILT"	9-1855	CONTRACTOR	V.R. DENNIS CONTR. Co.	DESIGNER
		DATE STARTED	B-5-59	REVISIONS
		DATE COMPLETED	B-12-59	As Built 10-21-59, EW



CITY DATUM  
ADD 61.9 FEET  
TO CONVERT TO  
MEAN SEA L.V.

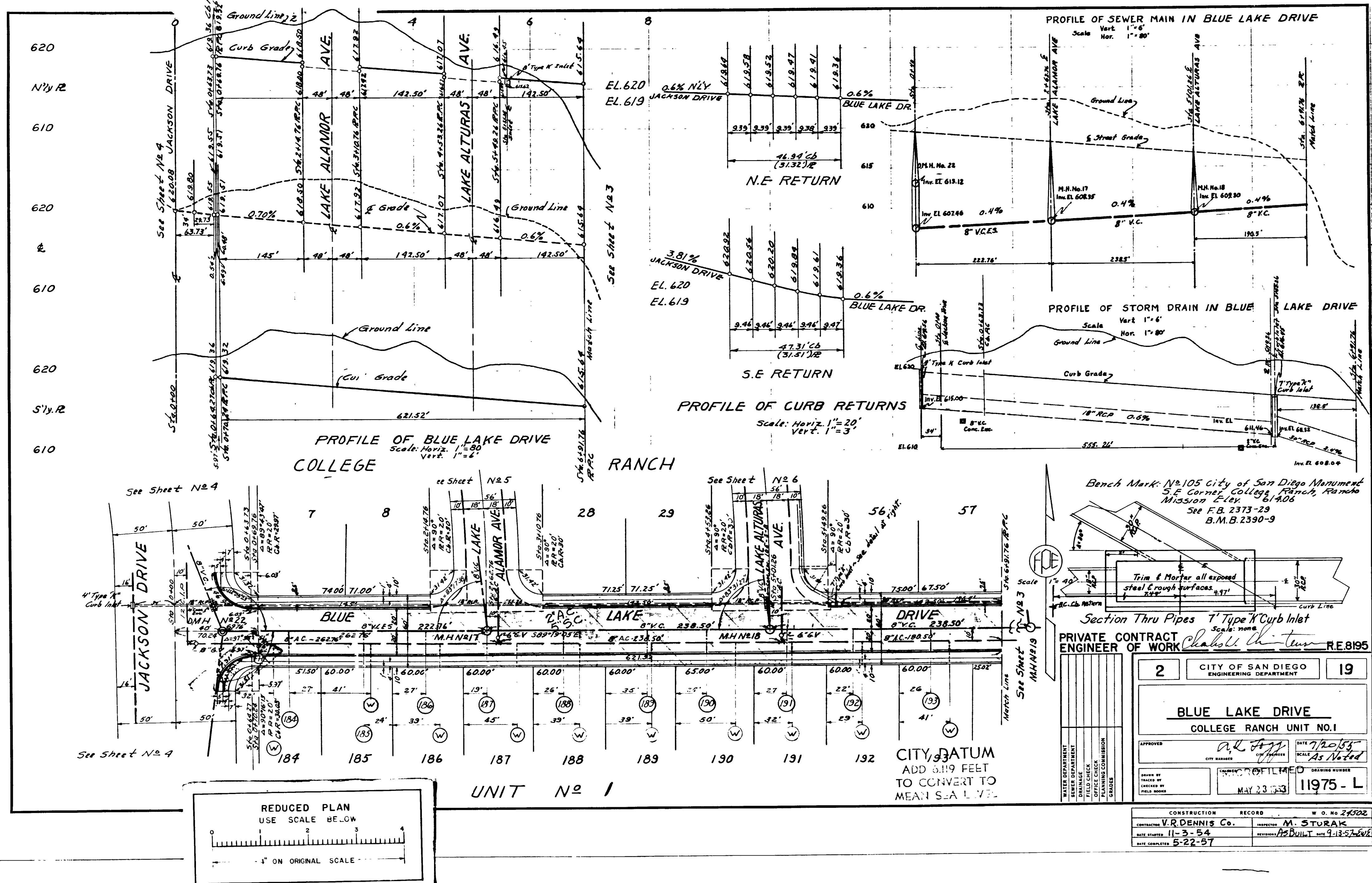
PRIVATE CONTRACT  
ENGINEER OF WORK *M. Patterson* RE.10410

8	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	17
<b>LAKE ARAGO AVE.</b>		
<b>COLLEGE RANCH UNIT NO. 2</b>		
APPROVED <i>R. F. Johnson</i> CITY ENGINEER	DATE 7/25/58	SCALE As Noted
DRAWN BY CHECKED BY FIELD BOOK	PROJECT NO. 14076-L	DRAWING NUMBER 14076-L



REVISIONS	CONSTRUCTION RECORD	W O No 24576
Revised "AS BUILT"	9-26-55	
	CONTRACTOR V. R. DENNIS CONST. Co.	INSPECTOR BIRDSELL
	DATE STARTED 8-5-58	REVISIONS AS BUILT 10-21-58
	DATE COMPLETED 8-12-59	

A-3617



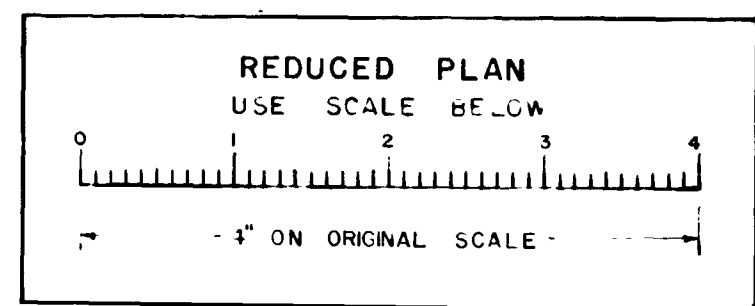
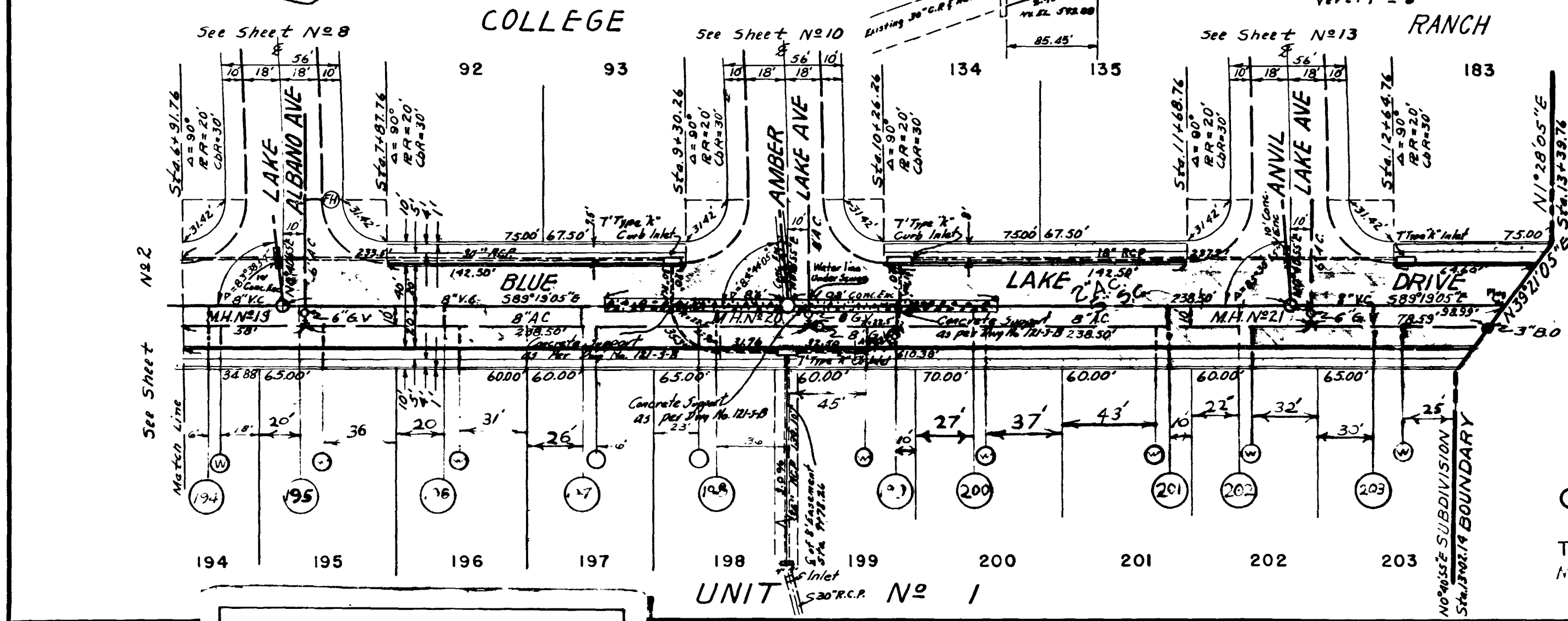
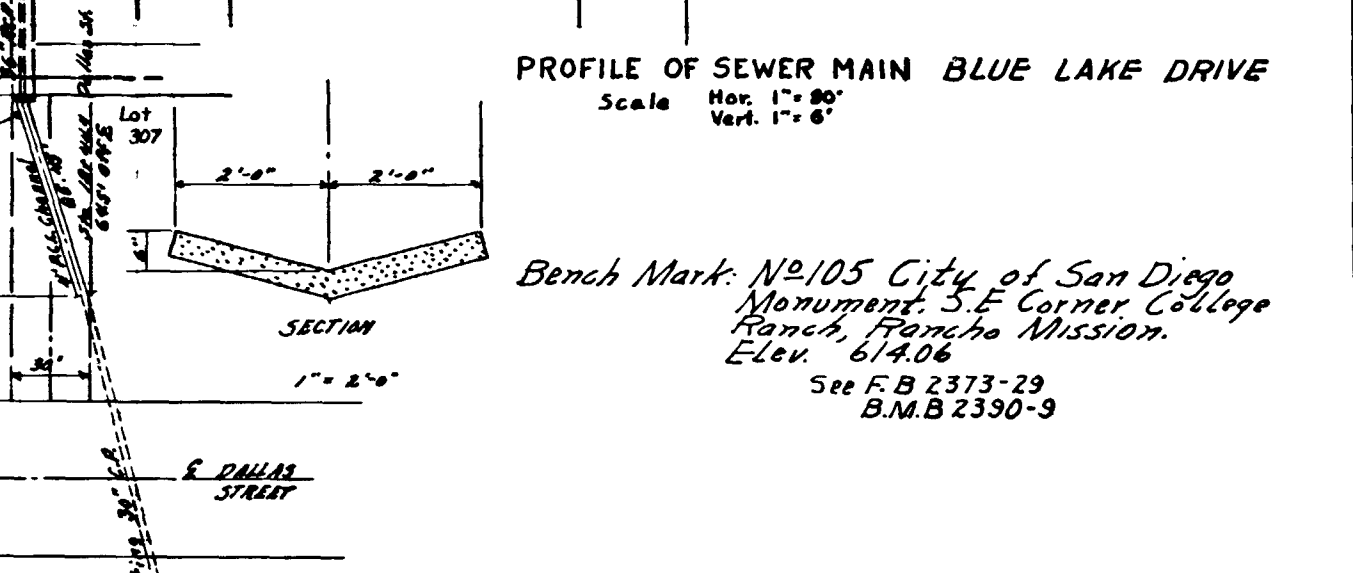
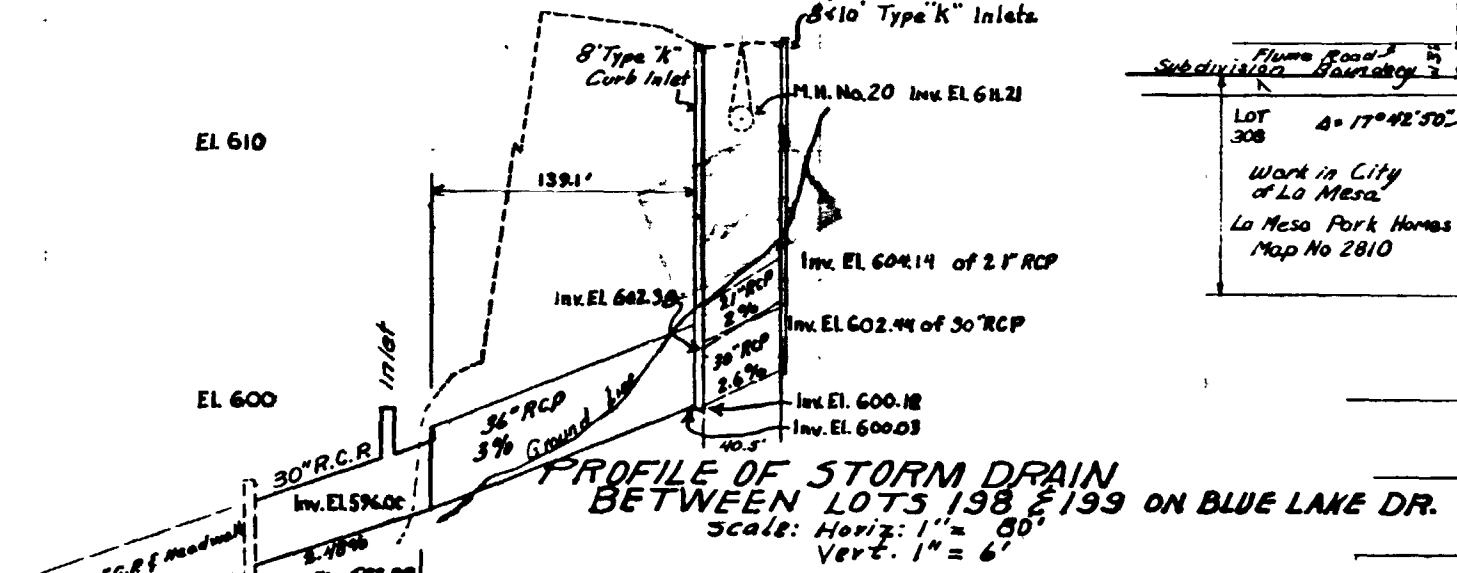
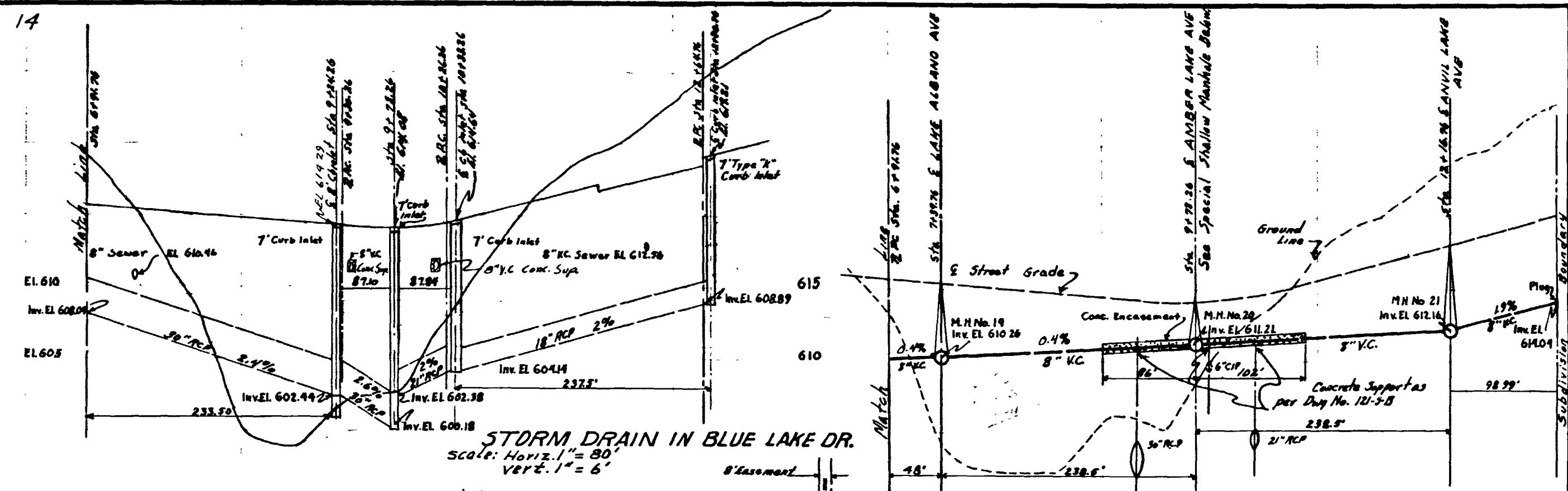
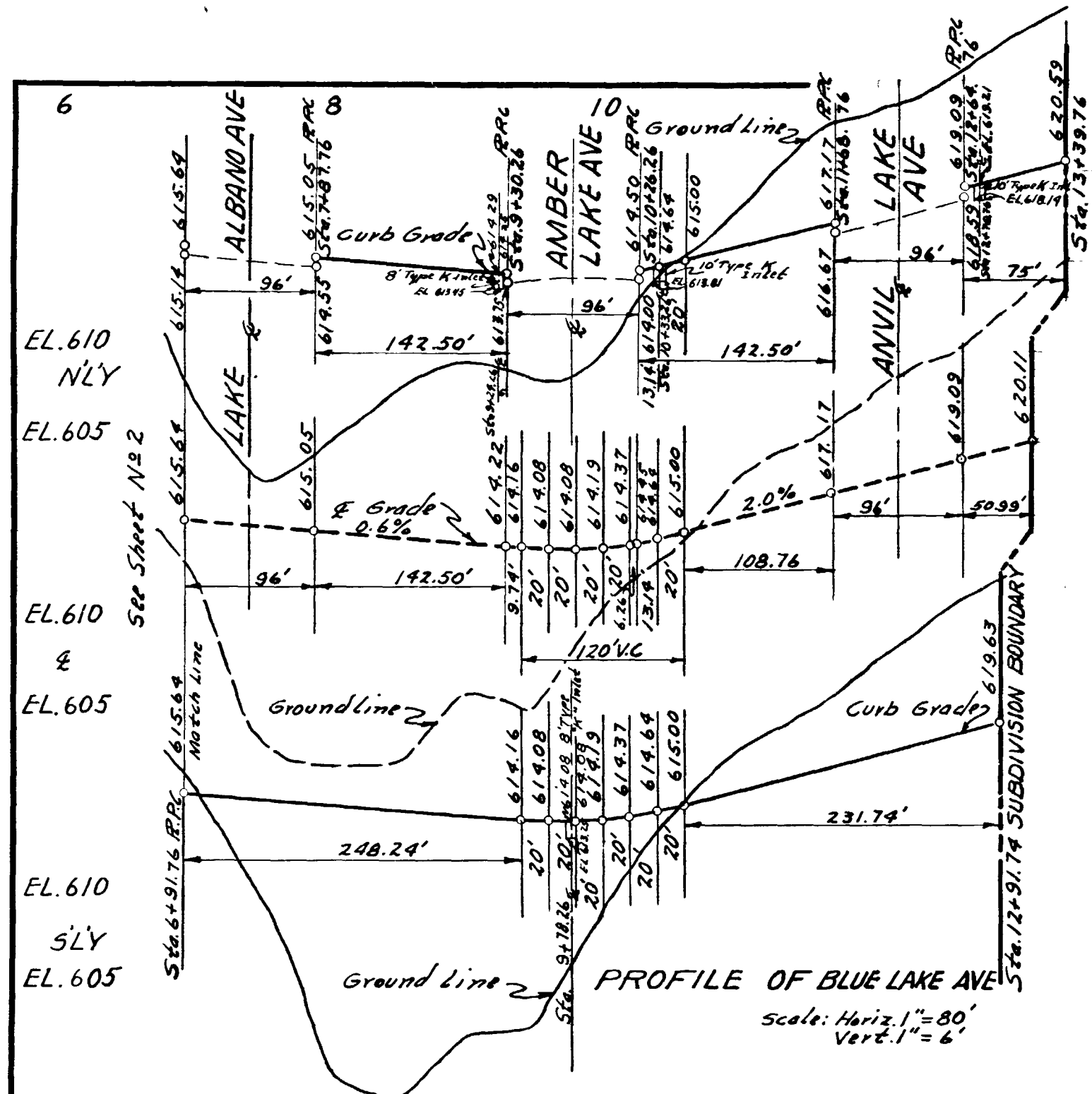
Bench Mark: No. 105 City of San Diego Monument  
S.E. Corner College Ranch, Rancho Mission Elev. 614.06  
See F.B. 2373-29  
B.M.B. 2390-9

Section Thru Pipes T Type K Curb Inlet  
Scale: none

PRIVATE CONTRACT ENGINEER OF WORK *Charles H. ...* R.E.8195

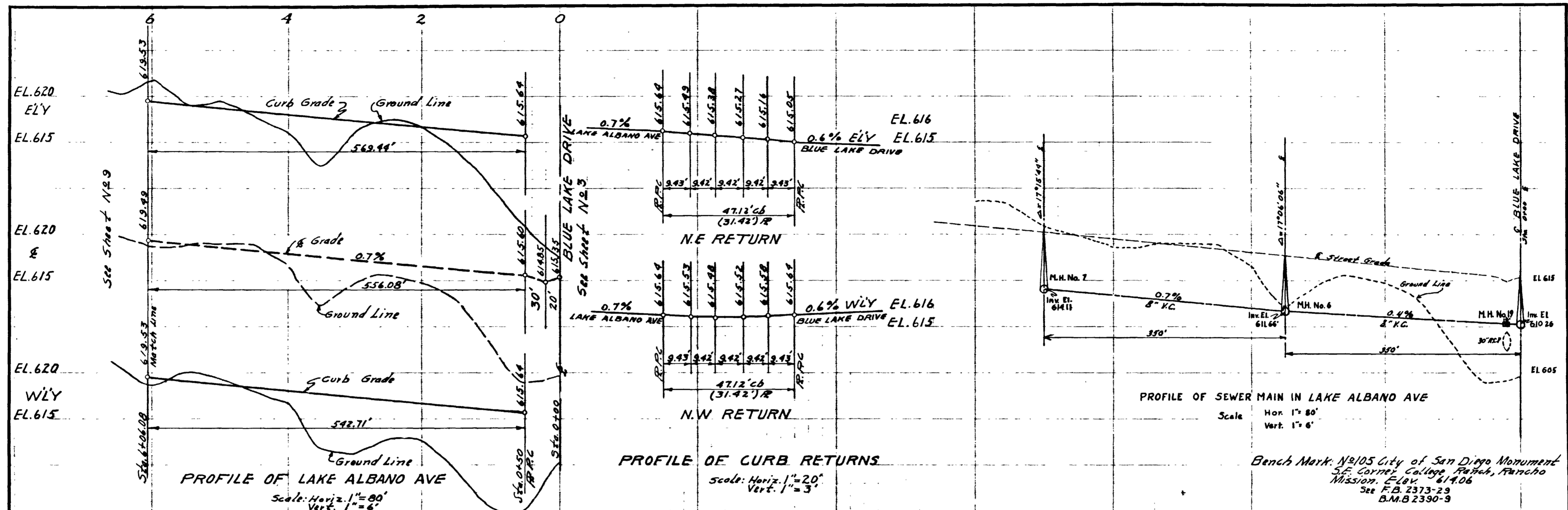
2	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>BLUE LAKE DRIVE</b> COLLEGE RANCH UNIT NO.1		
APPROVED	<i>A.L. ...</i> CITY ENGINEER	DATE 7/20/54 SCALE As Noted
DRAWN BY	TRACED BY	CHECKED BY
MAY 23 1953		DRAWING NUMBER <b>11975 - L</b>
CONSTRUCTION RECORD		W.O. No. 24502
CONTRACTOR V.R. DENNIS CO.	INSPECTOR M. STURAK	
DATE STARTED 11-3-54	REVISION AS BUILT DATE 9-13-57	
DATE COMPLETED 5-22-57		

A-3612

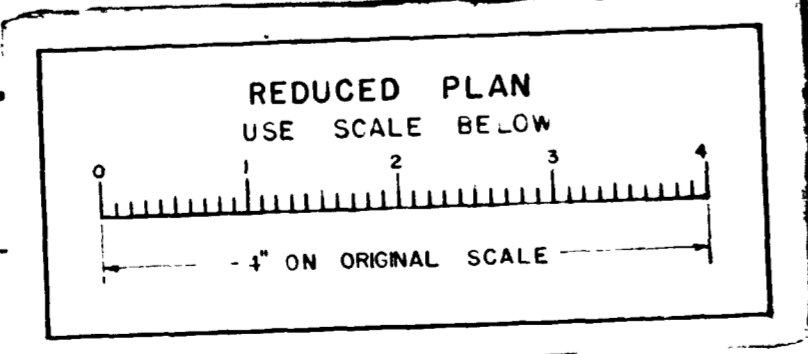
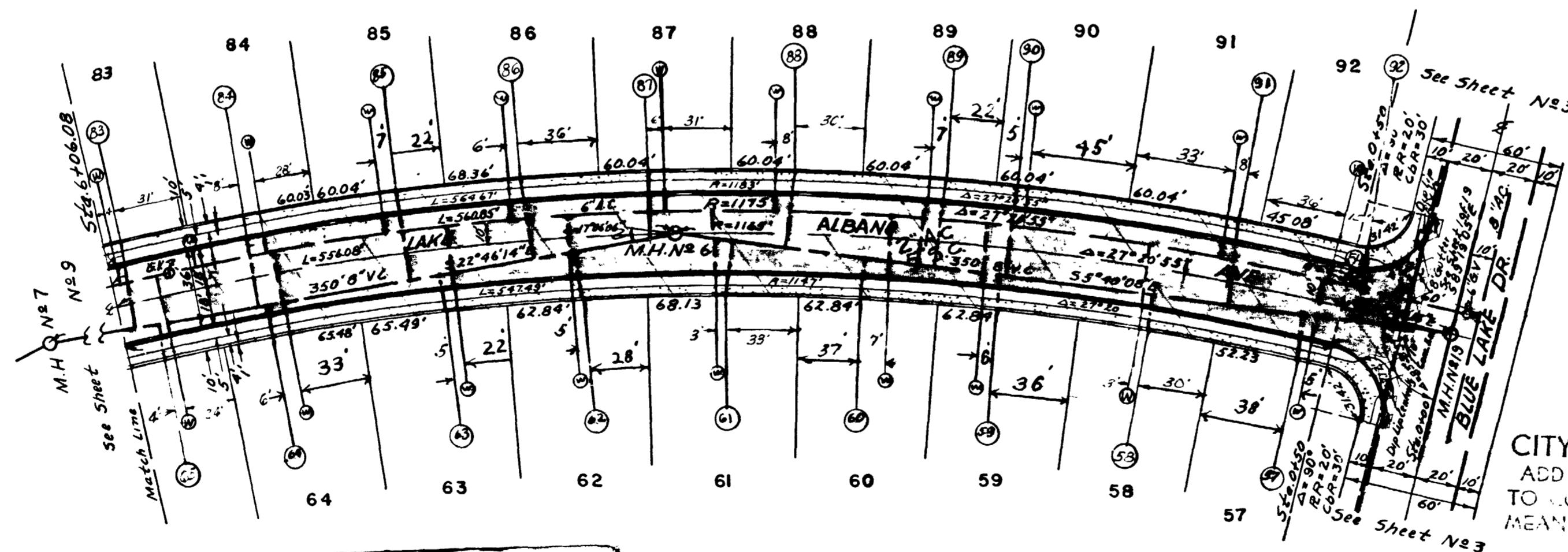


PRIVATE CONTRACT ENGINEER OF WORK *Chak V. Chatur* RE: 8195

3	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>BLUE LAKE DRIVE</b> COLLEGE RANCH UNIT NO. 1		
APPROVED	<i>Chak V. Chatur</i> CITY ENGINEER	DATE: 7/20/58 SCALE: As Noted
DRAWN BY	CHANGED	DRAWING NUMBER
11976-L		
CONSTRUCTION RECORD		W O No 2 4502
CONTRACTOR: Y.R. DENNIS Co.	INSPECTOR: M. STURAK	
DATE STARTED: 11-3-54	REVISION: AS BUILT	DATE: 9-13-57
DATE COMPLETED: 5-22-57		



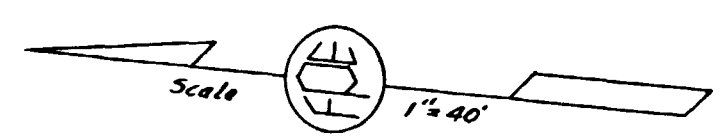
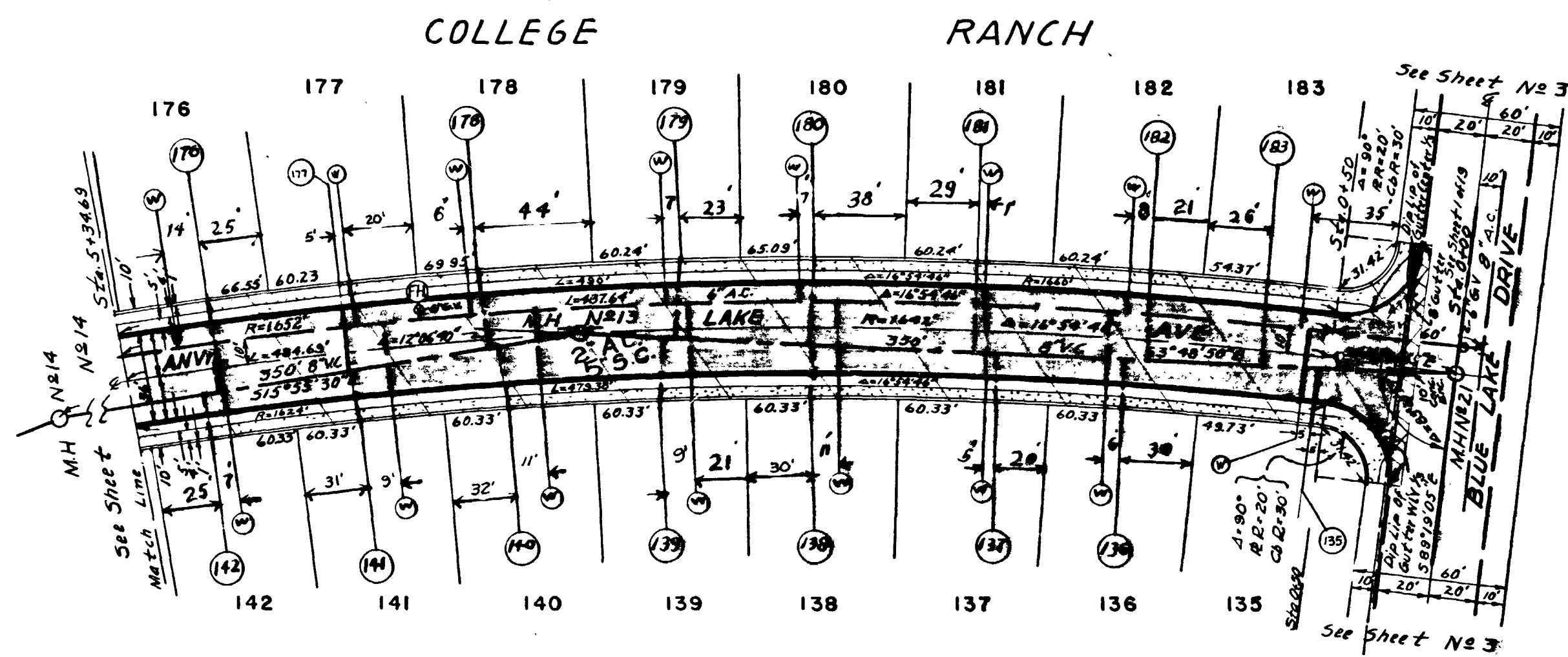
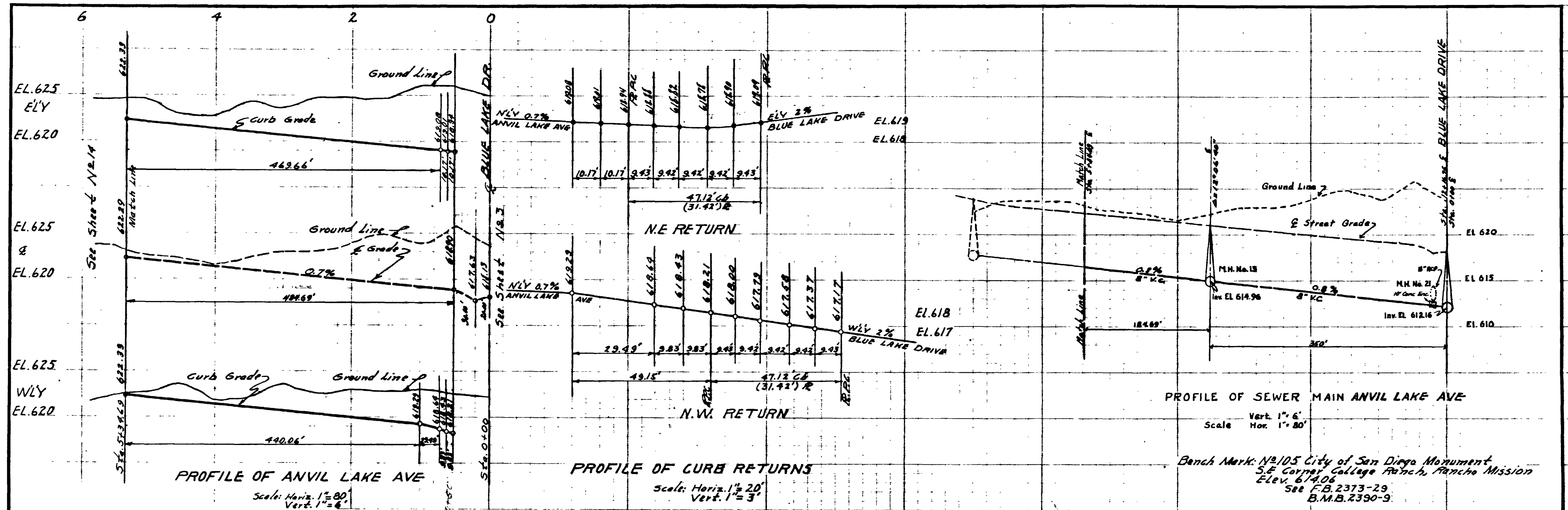
COLLEGE RANCH



PRIVATE CONTRACT ENGINEER OF WORK *Charles W. Clifton* RE. 8195

8	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>LAKE ALBANO AVENUE</b> COLLEGE RANCH UNIT NO. 1		
APPROVED <i>[Signature]</i>	CITY ENGINEER	DATE 7/20/55 SCALE As Noted
DRAWN BY TRACED BY CHECKED BY FIELD NOTES	DESIGNED BY PLANNING COMMISSION GRADE	DRAWING NUMBER 11981-L
CONSTRUCTION RECORD CONTRACTOR V.R. DENNIS Co. INSPECTOR M. STURAK		W. O. No. 24502
DATE STARTED 11-3-54		REVISION AS BUILT DATE 9-13-56
DATE COMPLETED 5-22-57		

A-3612



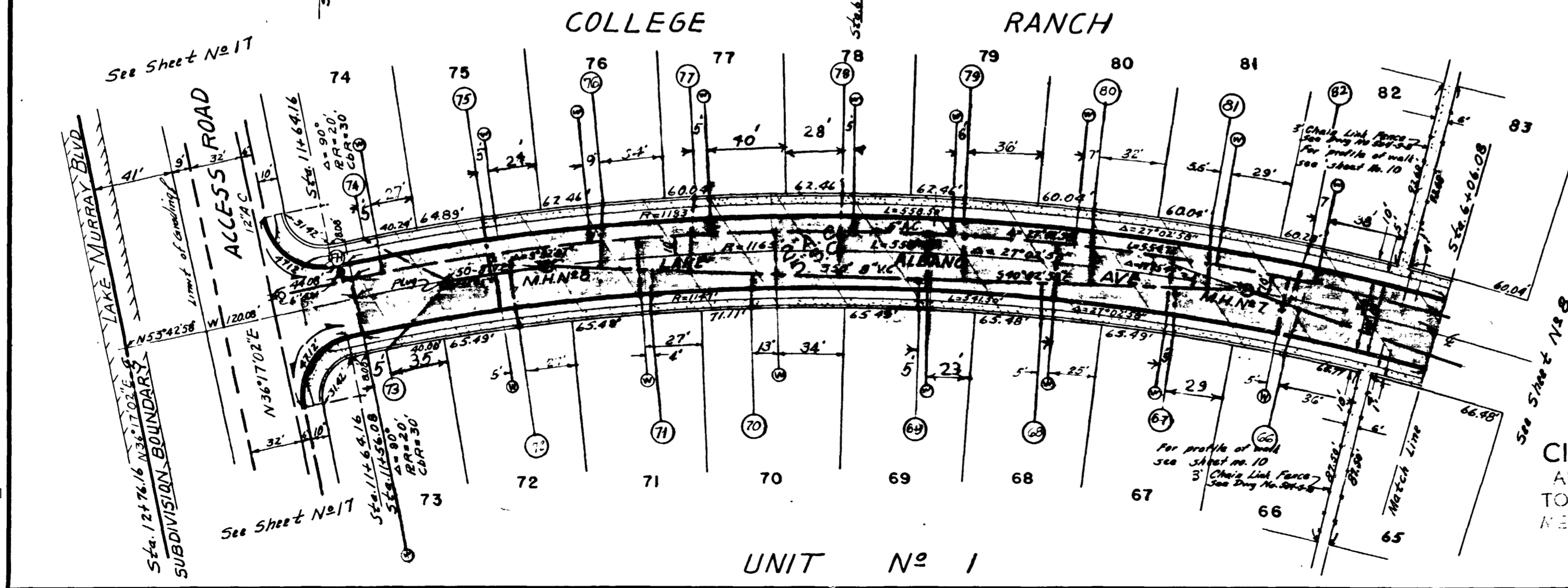
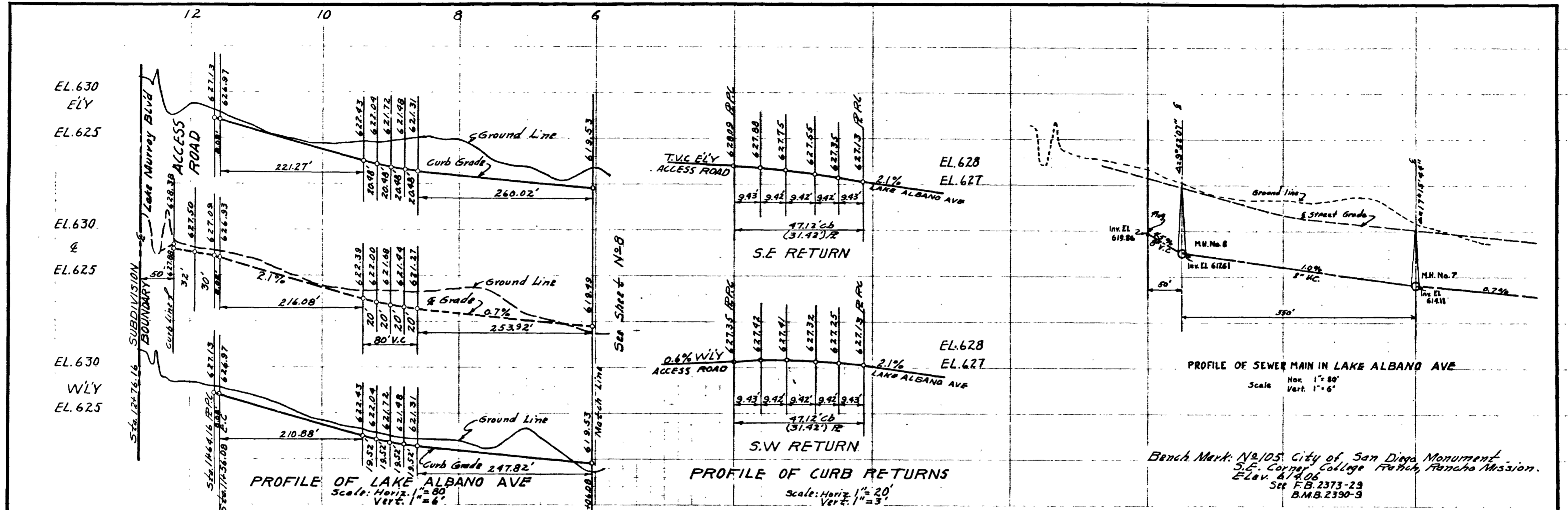
**CITY DATUM**  
 ADD 6.19 FEET  
 TO CONVERT TO  
 MEAN SEA LEVEL

PRIVATE CONTRACT ENGINEER OF WORK *Charles W. Clifton* R.E. 8195

13	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>ANVIL LAKE AVENUE</b> COLLEGE RANCH UNIT NO. 1		
APPROVED	<i>Charles W. Clifton</i>	DATE 7/20/57 SCALE As Noted
DRAWN BY	TRACED BY	CHECKED BY
CONTRACT OFFICIAL	DRAWING NUMBER	11986-L
CONSTRUCTION RECORD		W. O. No 24502
CONTRACTOR V.R. DENNIS CO.	INSPECTOR M. STREAR	
DATE STARTED 11-3-54	REVISION AS BUILT 4-13-57-442	
DATE COMPLETED 5-22-57		

A-3612





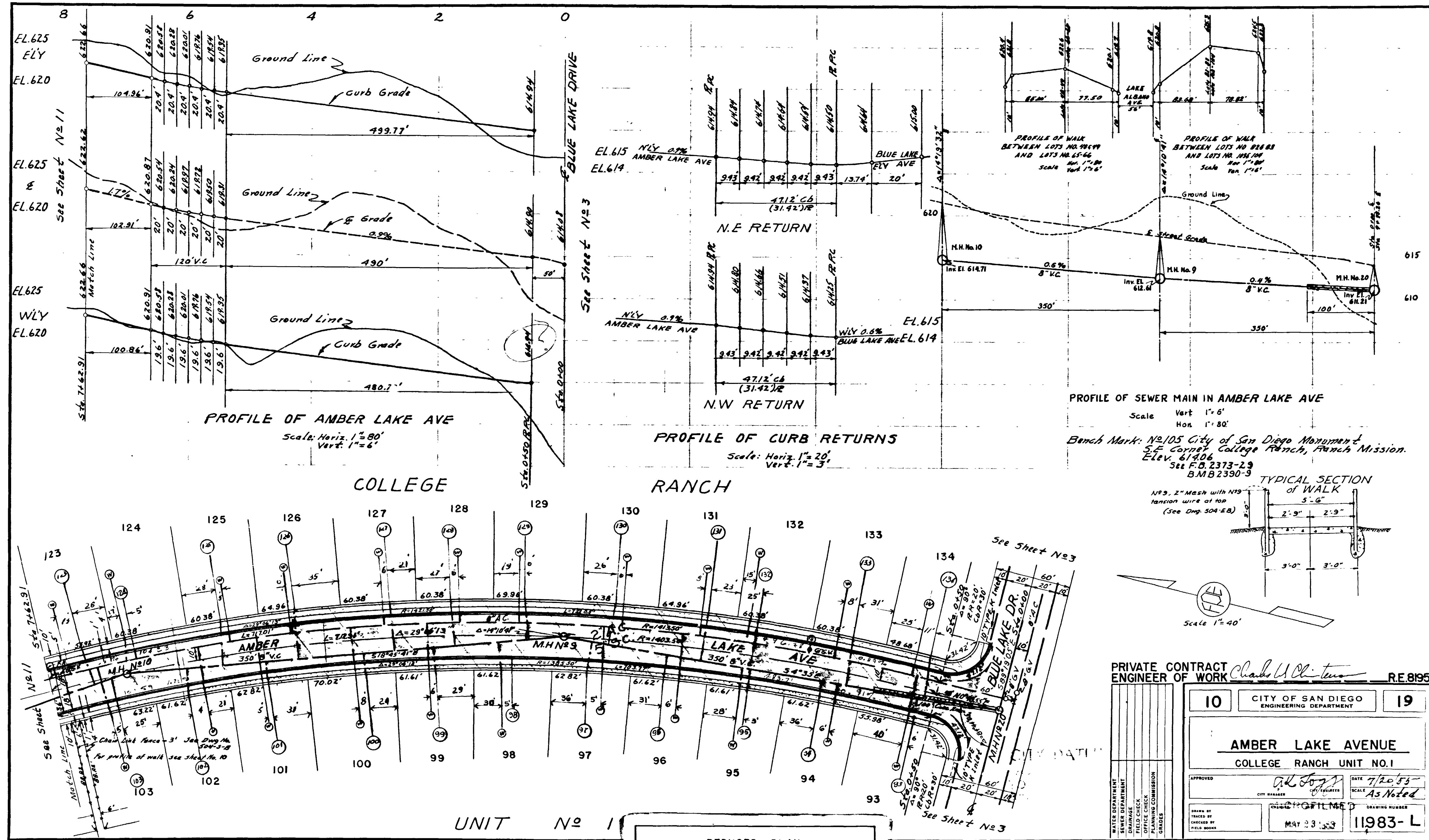
Bench Mark: No. 105 City of San Diego Monument  
S.E. Corner College Park, Rancho Mission.  
Elev. 614.06  
Set F.B. 2373-29  
B.M.B. 2390-3

PRIVATE CONTRACT ENGINEER OF WORK *Charles W. Cl... R.E. 895*

9	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>LAKE ALBANO AVENUE</b> COLLEGE RANCH UNIT NO. 1		
APPROVED <i>A. K. Foy</i> CITY MANAGER 223	DATE 1/22/55	SCALE As Noted
DRAWN BY CHECKED BY FIELD BOOKS	CHANGED DATE MICROFILMED	DRAWING NUMBER 1982-L

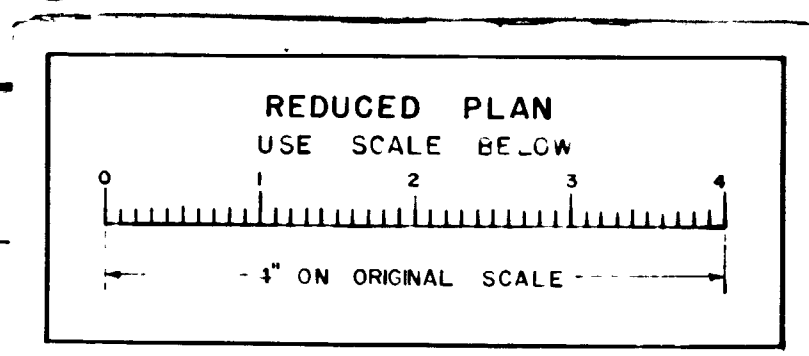
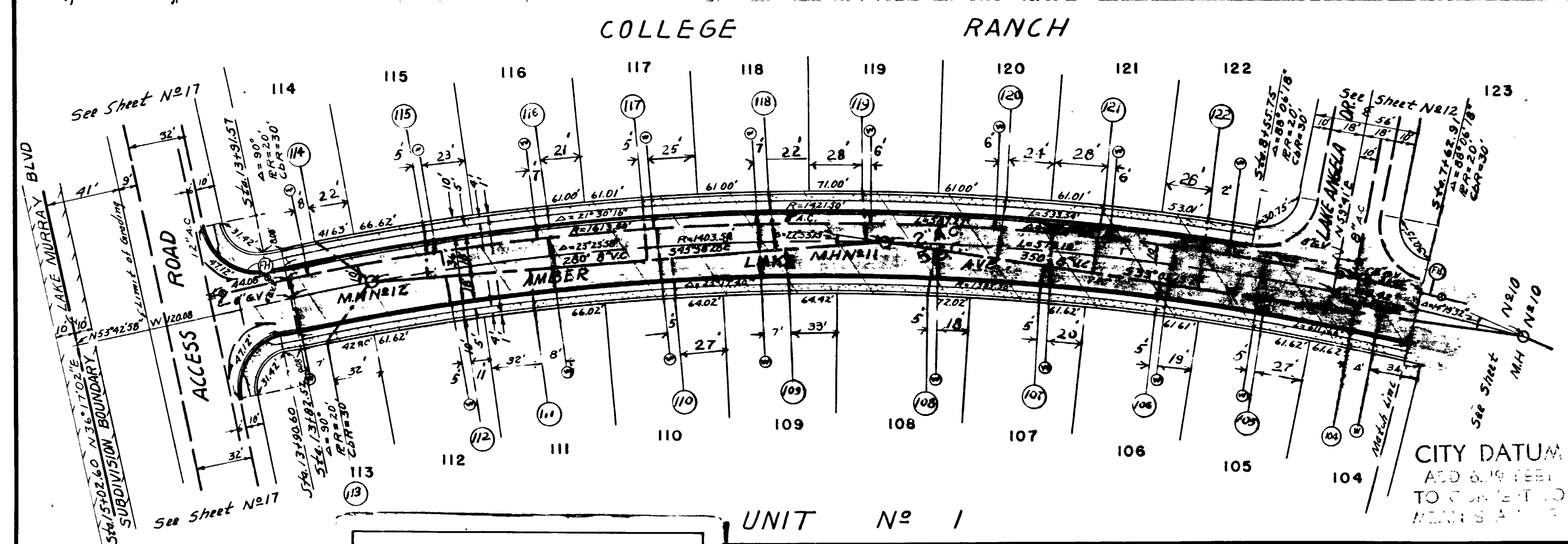
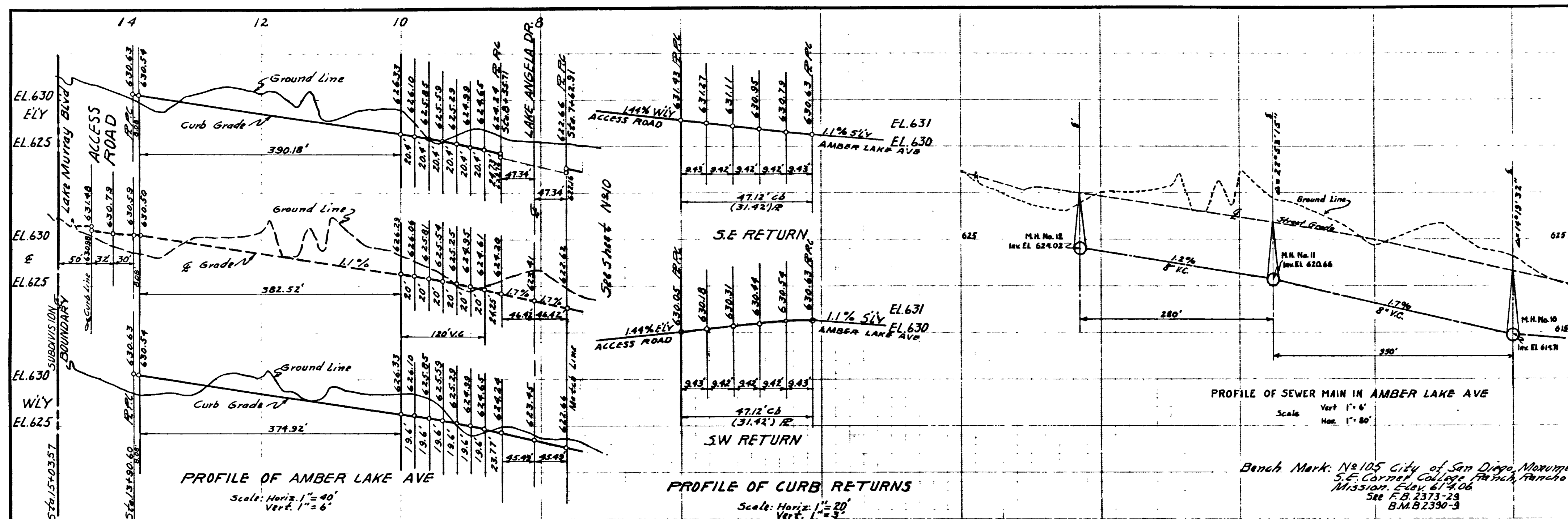
CONSTRUCTION RECORD		W. O. No. 24502
CONTRACTOR V.R. DENNIS Co.	SUPERVISOR M. STURAK	
DATE STARTED 11-3-54	REVISIONS AS BUILT	DATE COMPLETED 5-22-57

Pipeline Rehabilitation AQ-1  
Appendix O



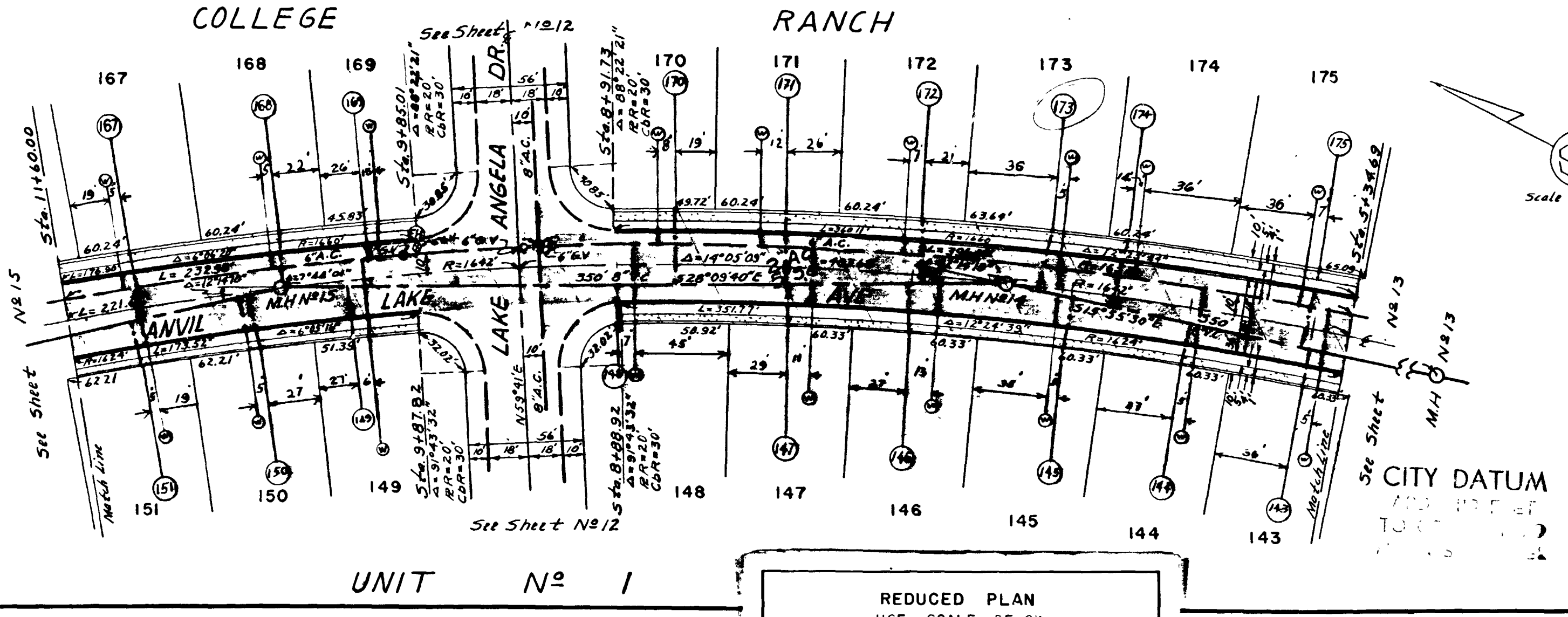
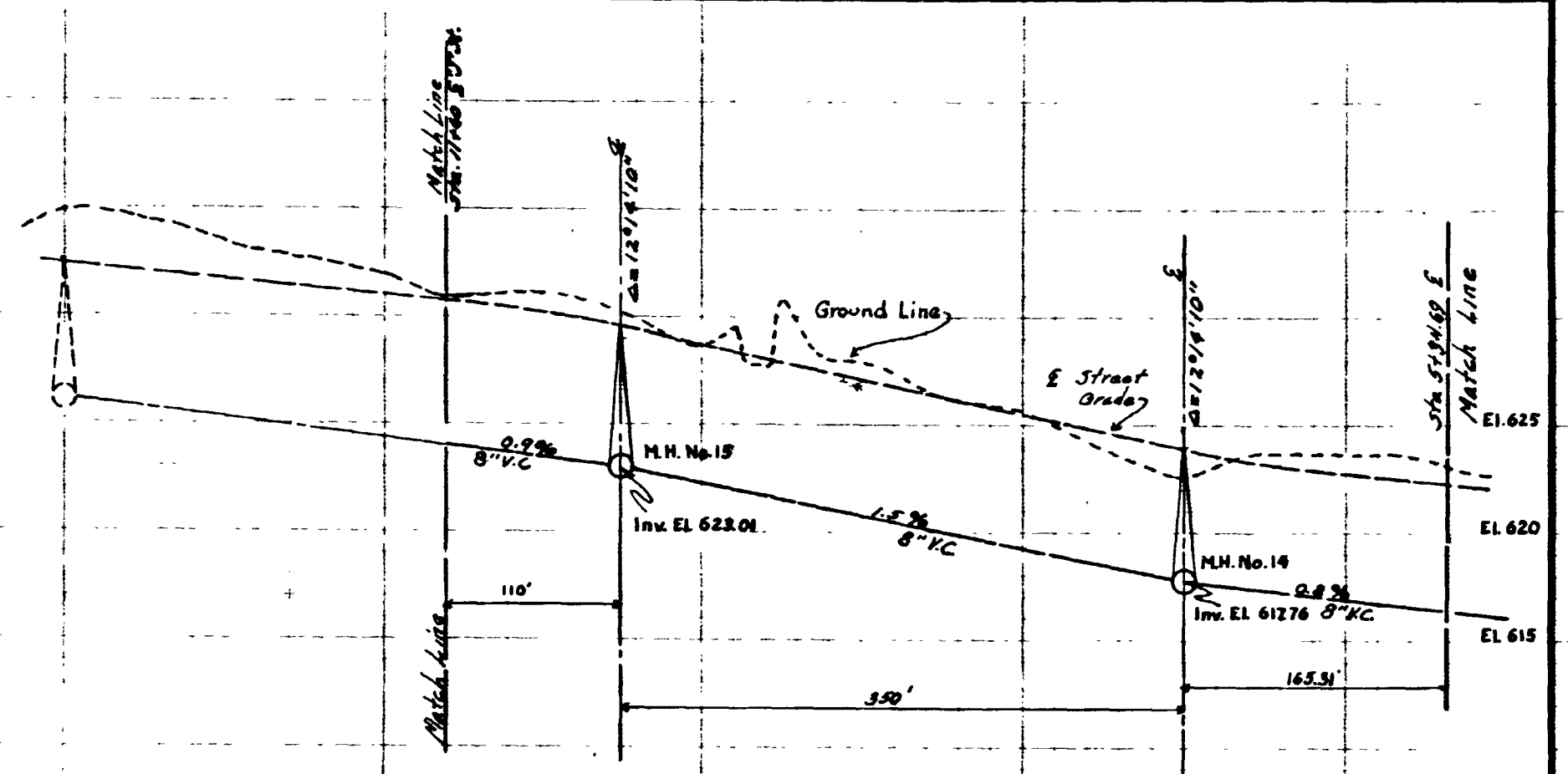
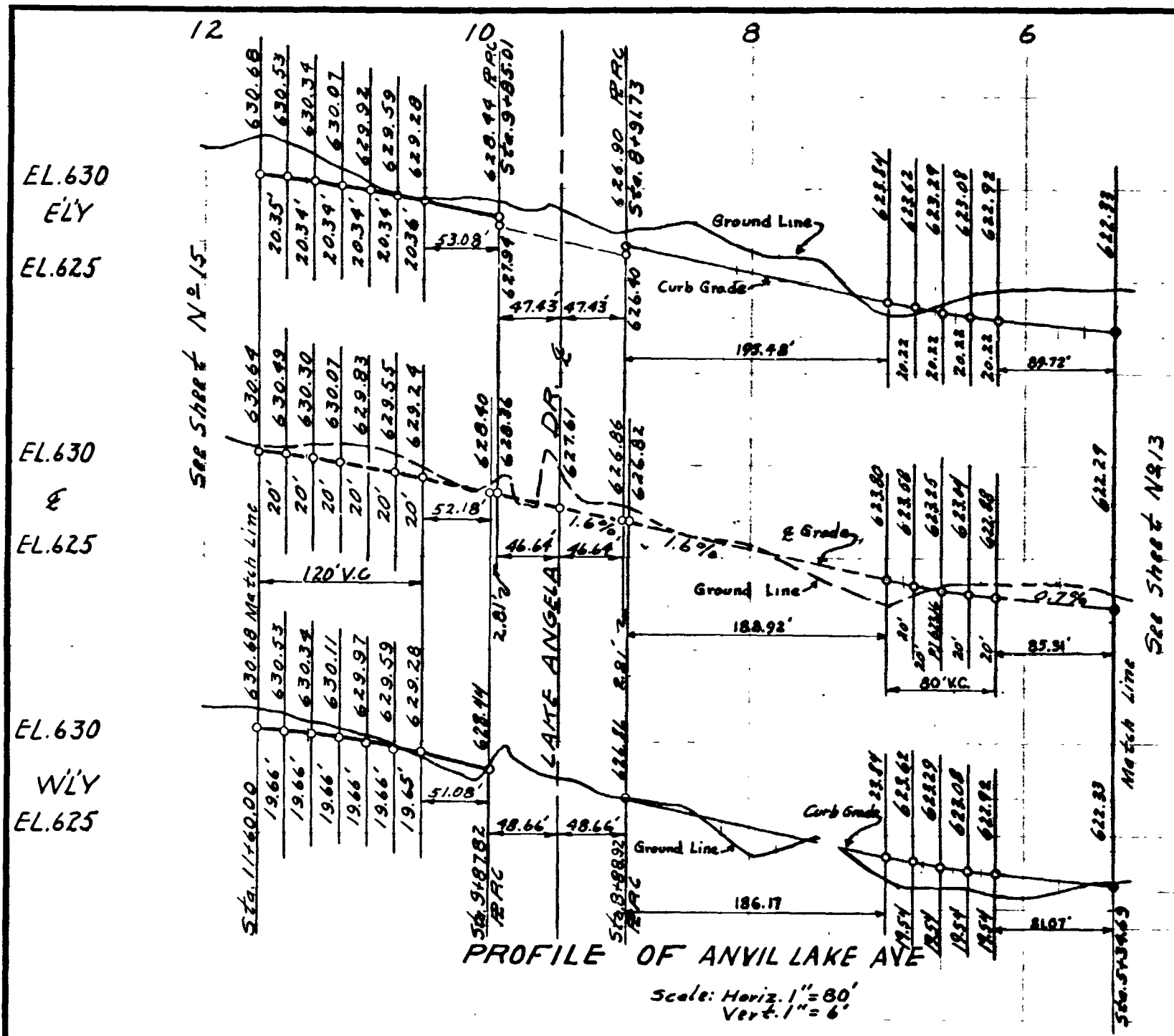
PRIVATE CONTRACT ENGINEER OF WORK *Charles W. Collins* R.E. 8195

10	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>AMBER LAKE AVENUE</b> COLLEGE RANCH UNIT NO. 1		
APPROVED <i>[Signature]</i> CITY MANAGER	DATE 7/20/55	SCALE As Noted
DESIGNED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWING NUMBER 11983-L
CONSTRUCTION RECORD - W O No 24502		
CONTRACTOR V.R. DENNIS Co.	INSPECTOR M. STURAK	REVISION AS BUILT
DATE STARTED 11-3-54	DATE COMPLETED 5-22-57	



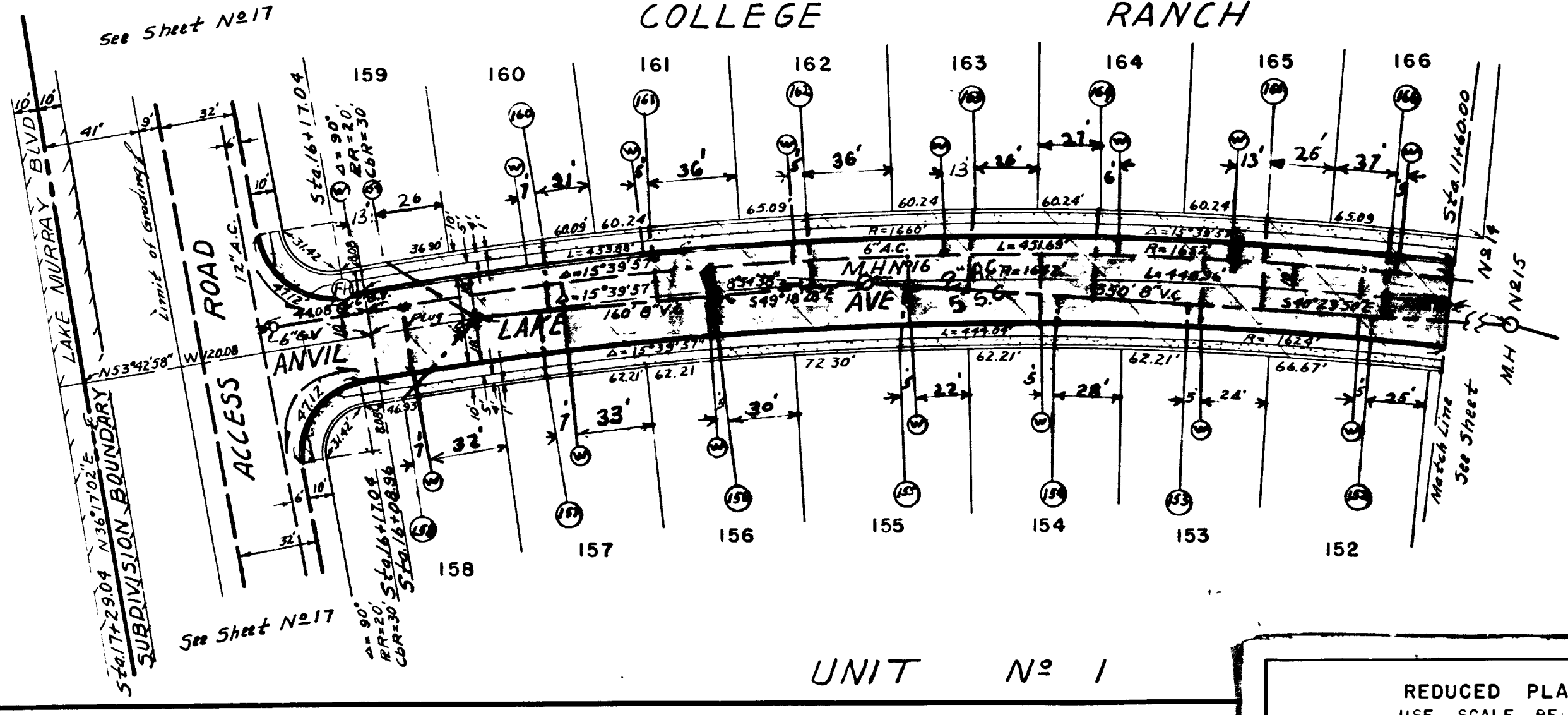
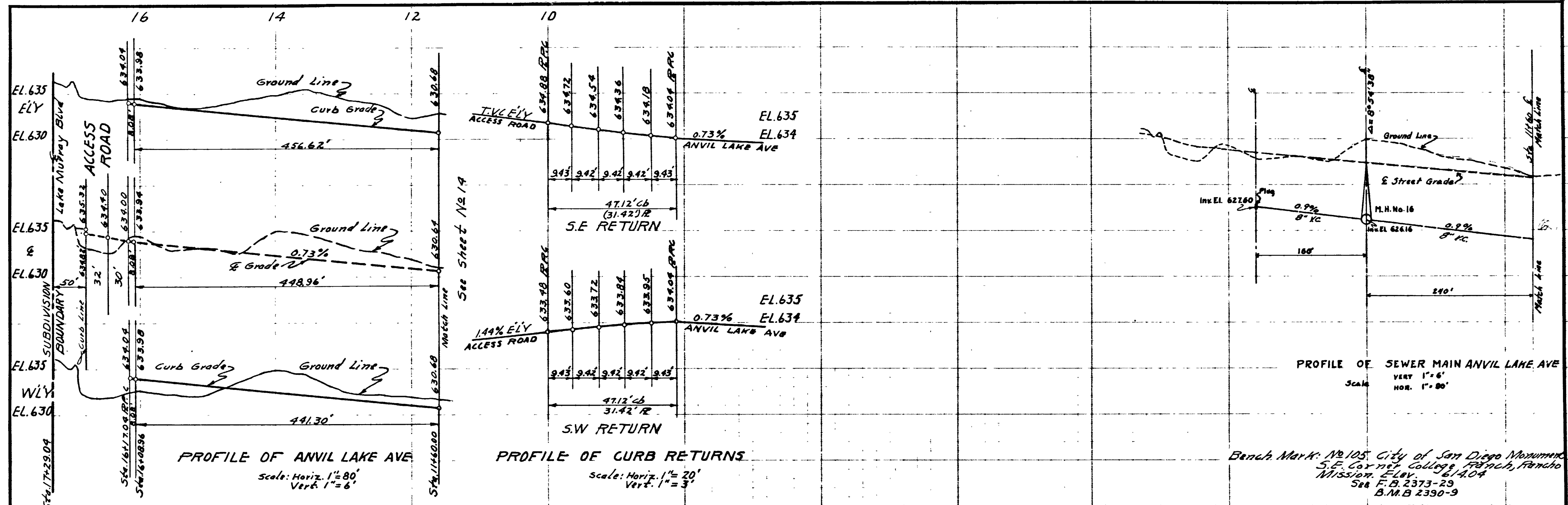
PRIVATE CONTRACT ENGINEER OF WORK *John L. ...* R.E. 8195

11	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19								
<b>AMBER LAKE AVENUE</b> COLLEGE RANCH UNIT NO. 1										
APPROVED	<i>John L. ...</i> CITY ENGINEER	DATE: 7/20/56 SCALE: As Noted								
DRAWN BY	<i>John L. ...</i>	DRAWING NUMBER 11984-L								
<table border="1"> <tr> <td>CONSTRUCTION RECORD</td> <td>W. O. No. 24502</td> </tr> <tr> <td>CONTRACTOR: V.R. DENNIS CO.</td> <td>INSPECTOR: M. STURAK</td> </tr> <tr> <td>DATE STARTED: 11-3-54</td> <td>REVISION: As Built 9-13-57-ekb</td> </tr> <tr> <td>DATE COMPLETED: 5-22-57</td> <td></td> </tr> </table>			CONSTRUCTION RECORD	W. O. No. 24502	CONTRACTOR: V.R. DENNIS CO.	INSPECTOR: M. STURAK	DATE STARTED: 11-3-54	REVISION: As Built 9-13-57-ekb	DATE COMPLETED: 5-22-57	
CONSTRUCTION RECORD	W. O. No. 24502									
CONTRACTOR: V.R. DENNIS CO.	INSPECTOR: M. STURAK									
DATE STARTED: 11-3-54	REVISION: As Built 9-13-57-ekb									
DATE COMPLETED: 5-22-57										

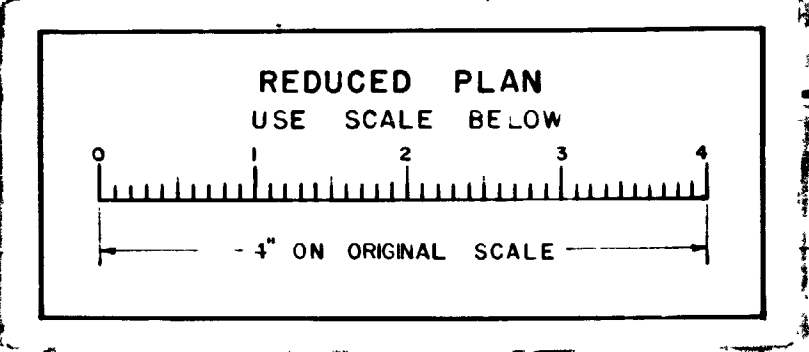


PRIVATE CONTRACT ENGINEER OF WORK *Charles W. Ch...* R.E.8195

14	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>ANVIL LAKE AVENUE</b>		
COLLEGE RANCH UNIT NO. 1		
APPROVED	<i>Al J...</i> CITY MANAGER	DATE 7-20-54
DRAWN BY	<i>M.A.F.</i> M.A.F. 53 428	SCALE As Noted
TRACED BY		DRAWING NUMBER
CHECKED BY		11987-L
FIELD CHECK		
PLANNING COMMISSION		
GRANTEE		
CONSTRUCTION RECORD		W. O. No 24502
CONTRACTOR	V.R. DENNIS CO	INSPECTOR
DATE STARTED	11-3-54	REVISIONS
DATE COMPLETED	5-22-57	AS BUILT DATE 9-13-57



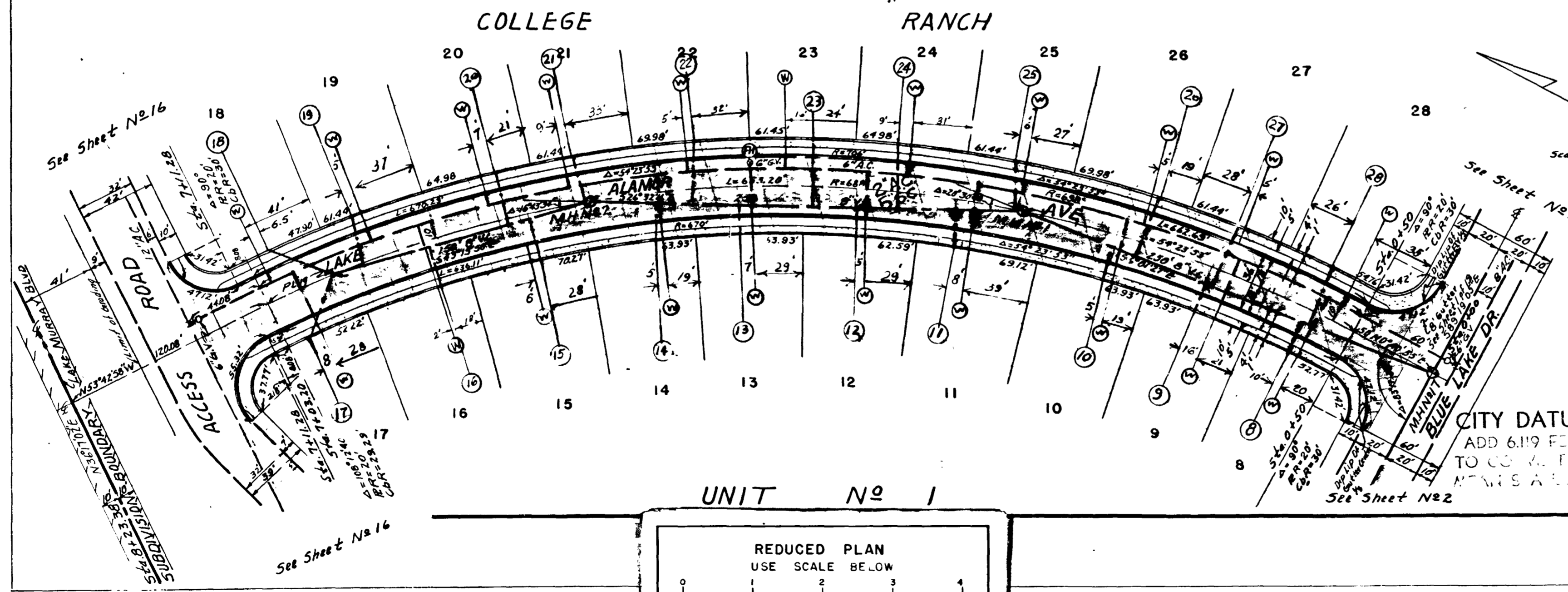
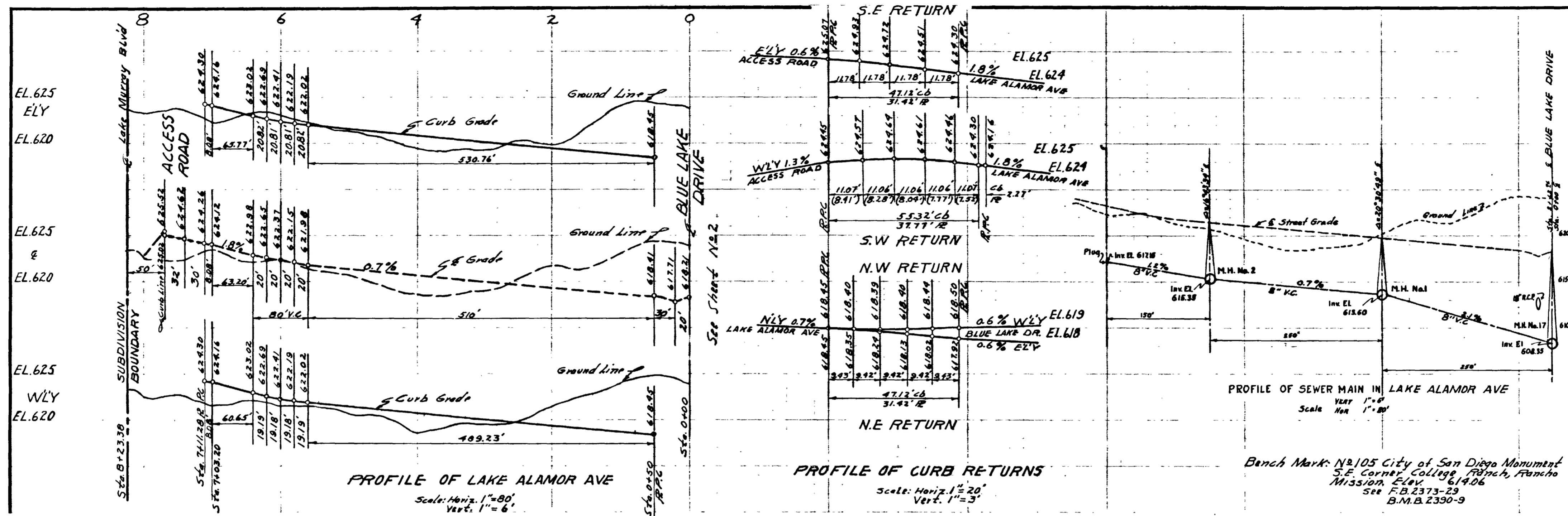
CITY DATUM  
ADD 6.112 FEET  
TO CONVERT TO  
MEAN SEA LEVEL



PRIVATE CONTRACT ENGINEER OF WORK *Charles W. Clifton* R.E. 8195

15	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>ANVIL LAKE AVENUE</b>		
COLLEGE RANCH UNIT NO. 1		
APPROVED <i>AK Foggy</i> CITY ENGINEER	DATE 7/20/54	SCALE As Noted
DRAWN BY TRACED BY CHECKED BY FIELD BOOK	CONTRACT NO. 11-3-54	DRAWING NUMBER 11988-L
CONSTRUCTION RECORD		W.O. No. 24502
CONTRACTOR V.R. DENNIS Co.		INSPECTOR M. STORAK
DATE COMPLETED 5-22-57		APPROVED BY AS BUILT DATE 9-13-57-646

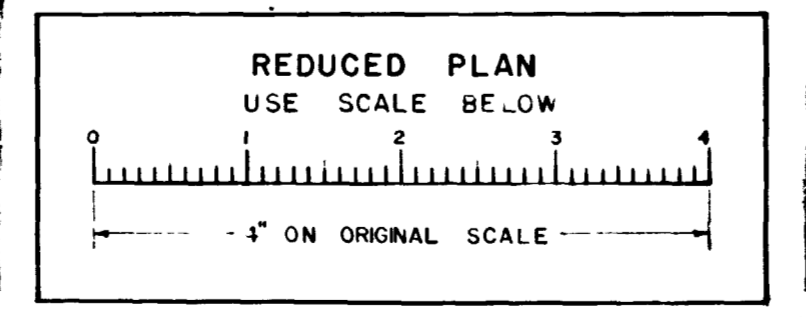
A-3612

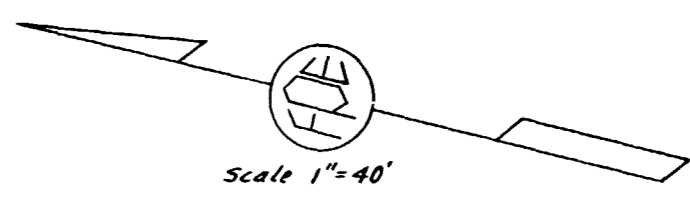
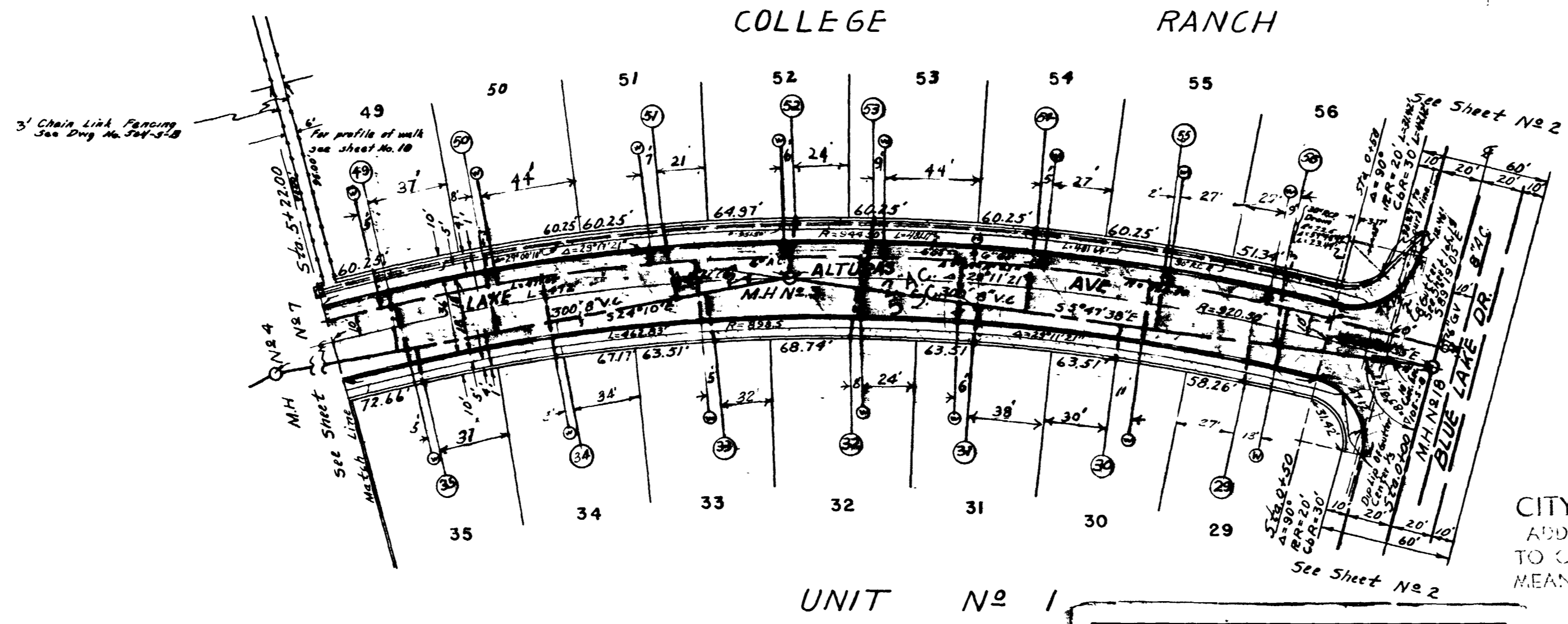
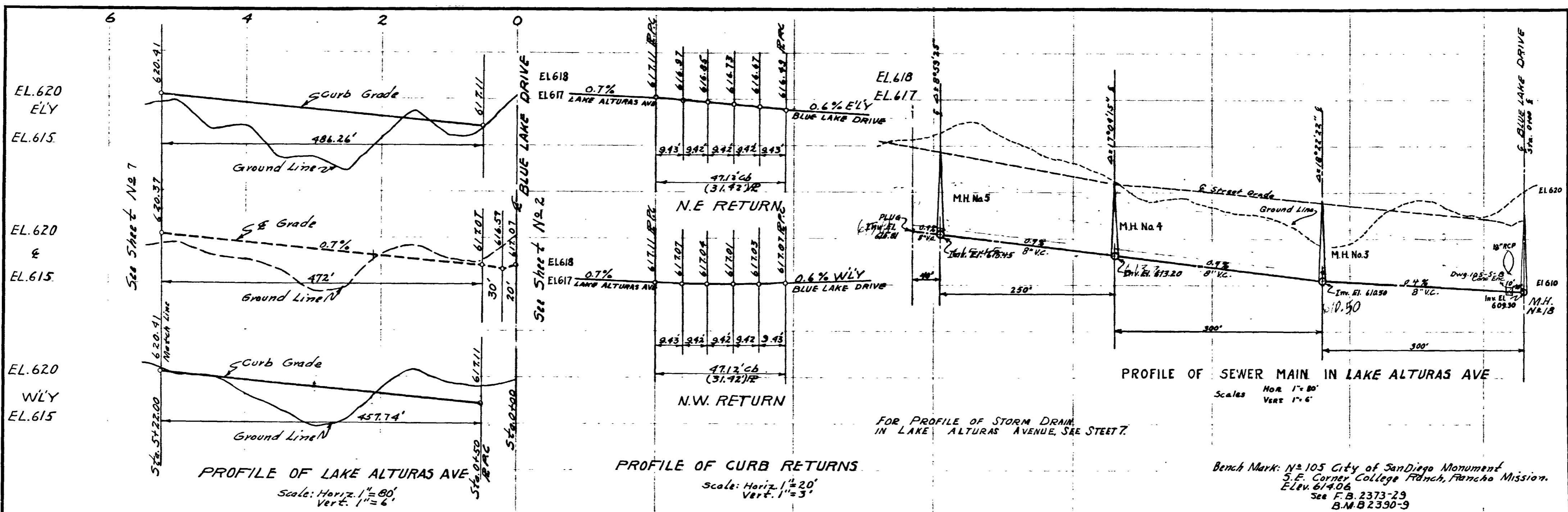


PRIVATE CONTRACT ENGINEER OF WORK *Charles W. Christman* R.E.8195

5	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>LAKE ALAMOR AVENUE</b> COLLEGE RANCH UNIT NO.1		
APPROVED <i>Orl. Lynn</i> CITY ENGINEER	DATE 7/20/57	SCALE As Noted
DRAWN BY CHECKED BY FIELD BOOK	DATE MAY 23 1953	DRAWING NUMBER 11978 - L
CONSTRUCTION RECORD		W. O. No 24502
CONTRACTOR V.R. DENNIS Co.	INSPECTOR M. STURAK	
DATE STARTED 11-3-54	REVISIONS AS BUILT DATE 9-13-56	
DATE COMPLETED 5-22-57		

A-3612

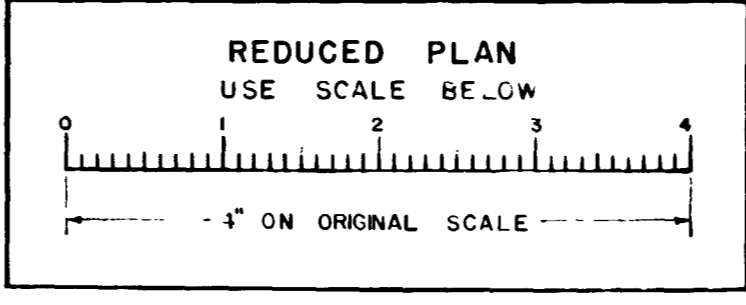


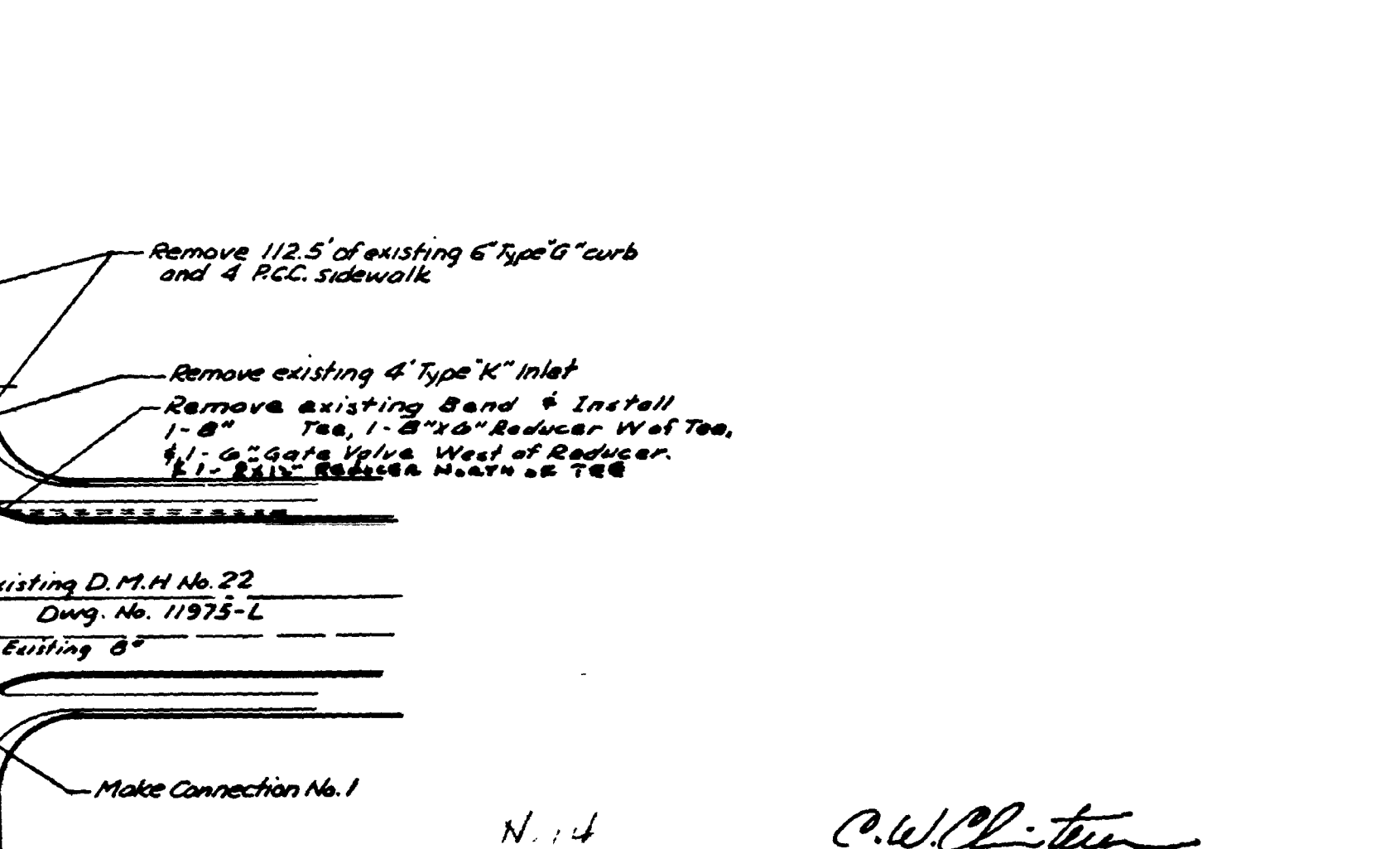
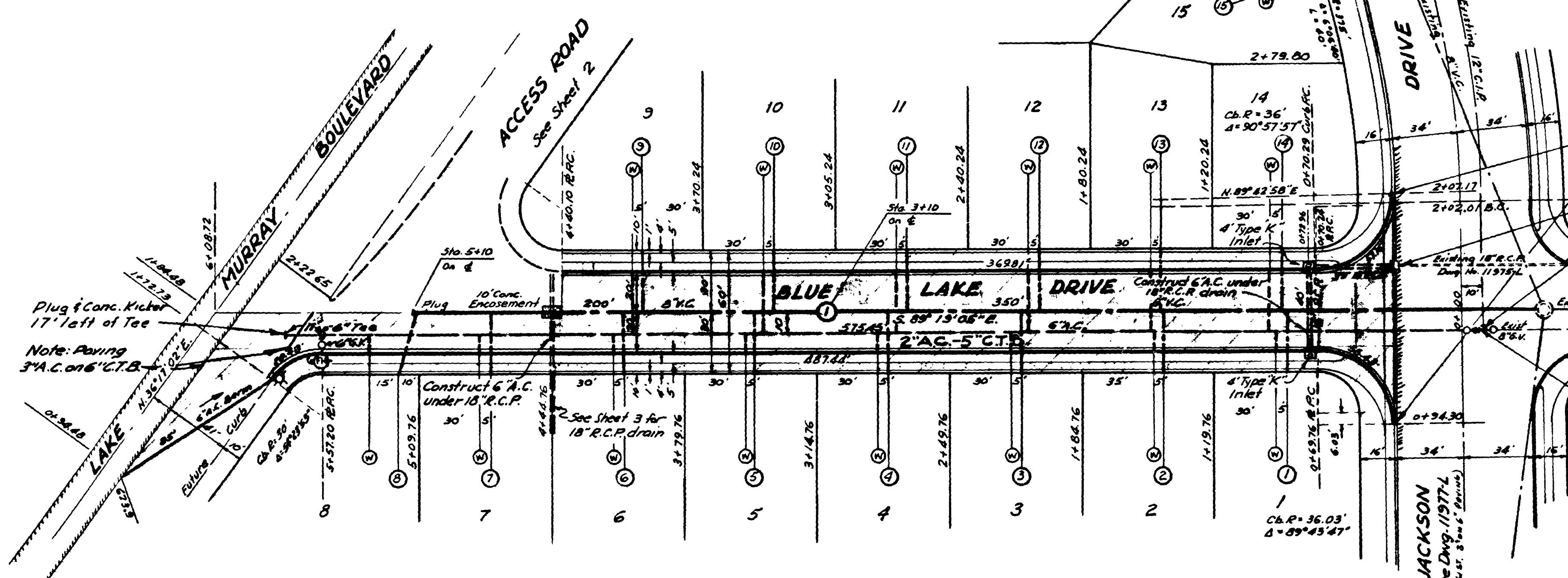
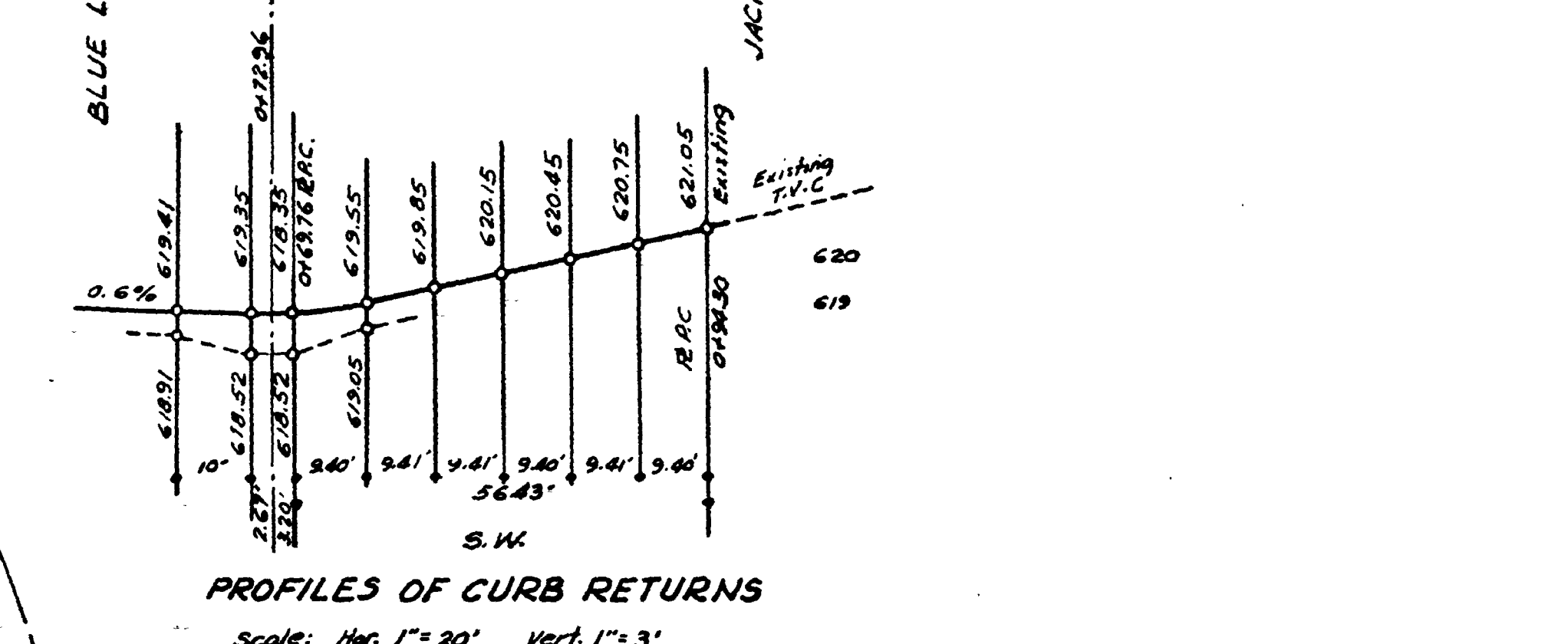
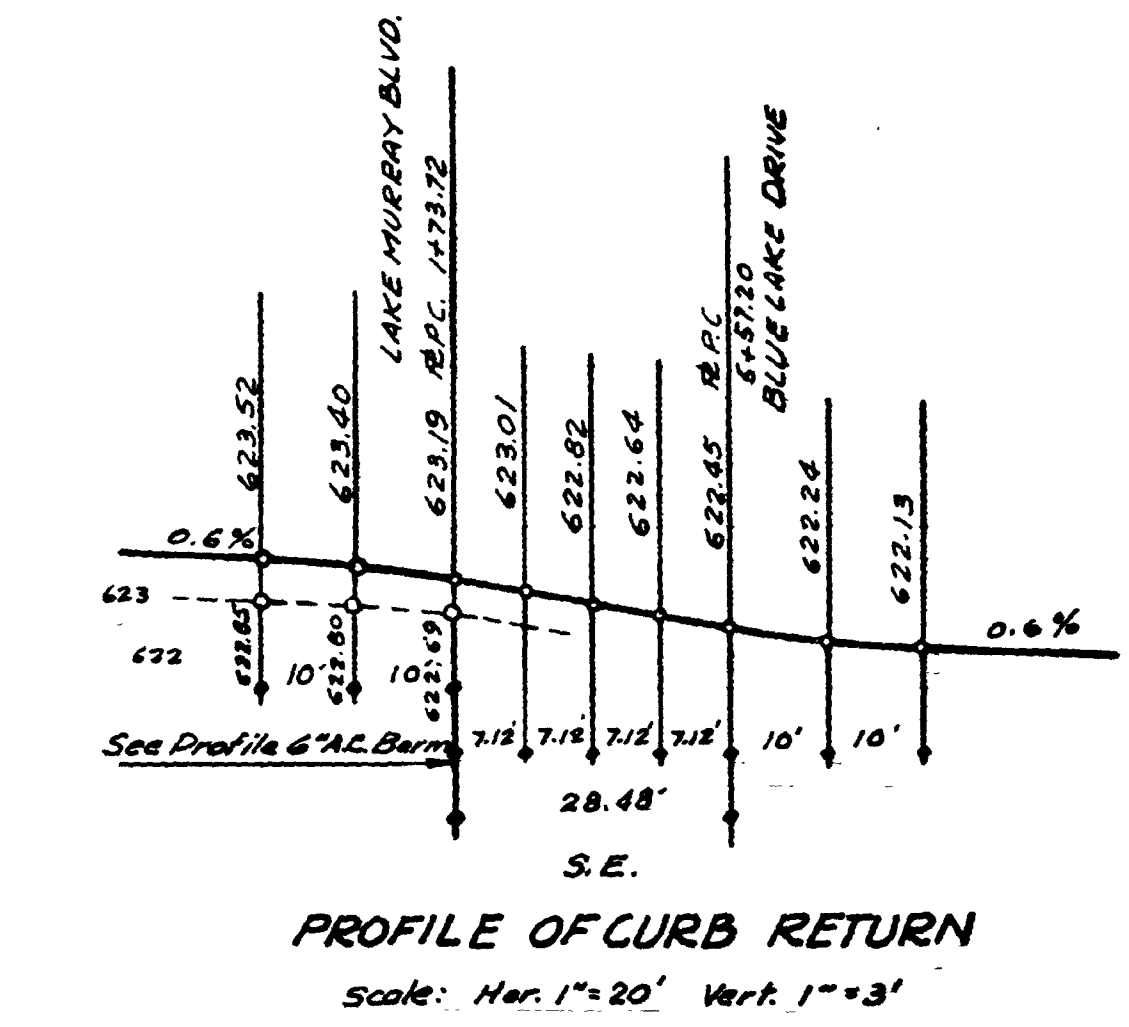
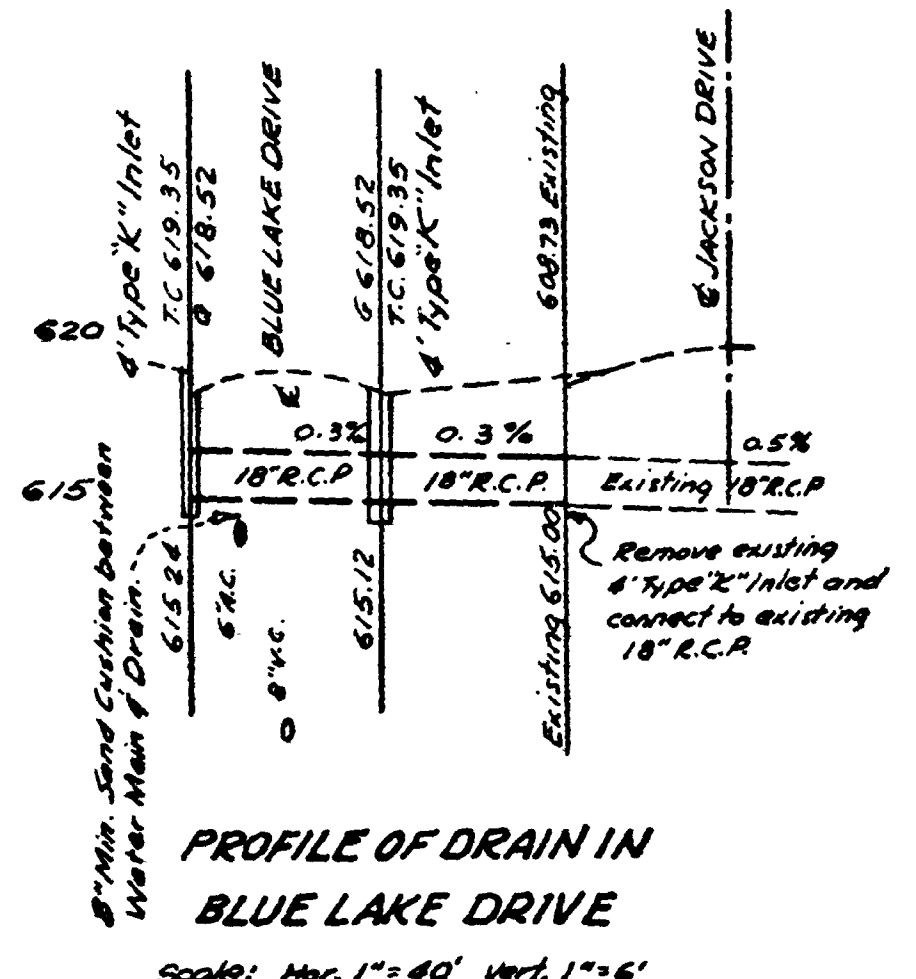
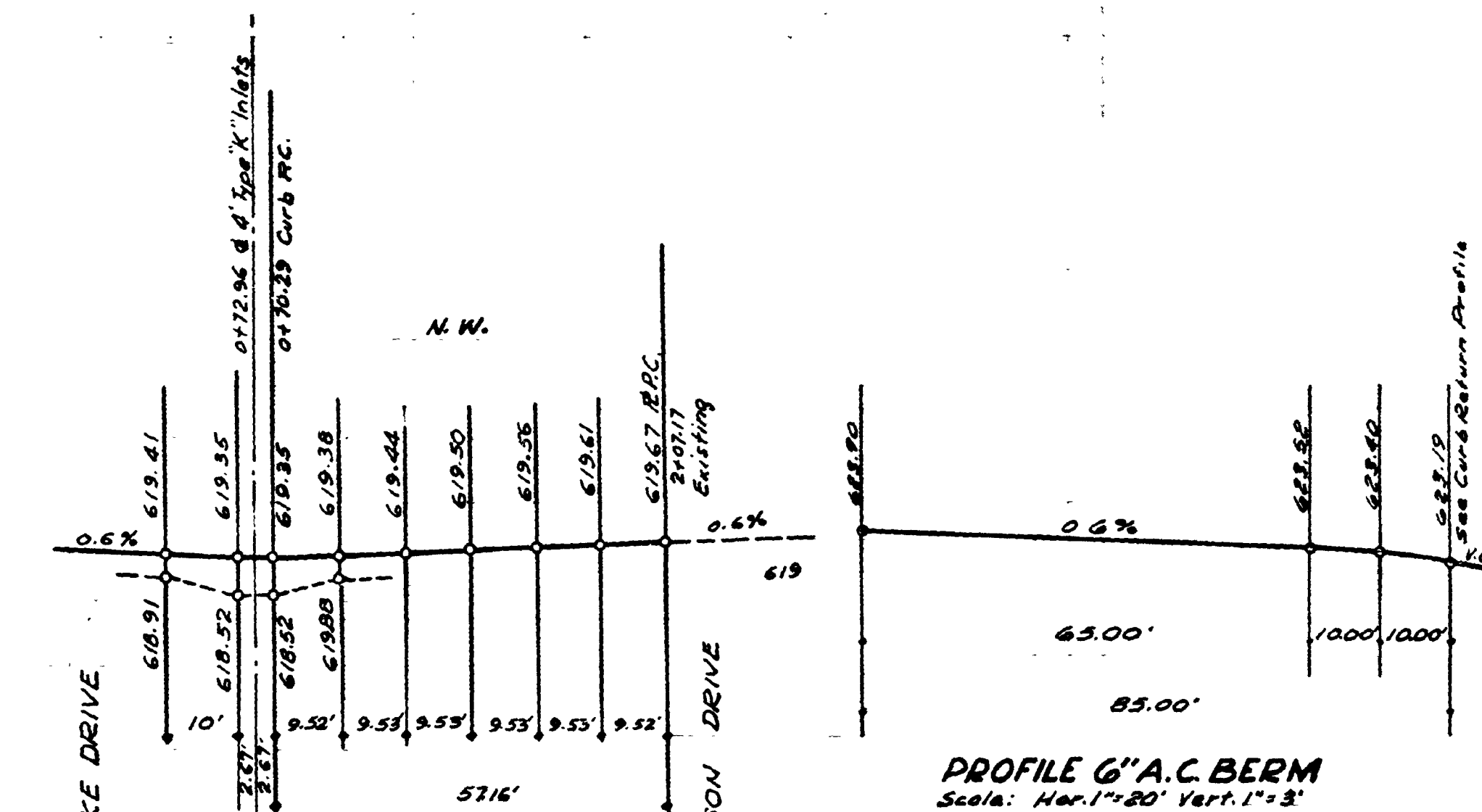
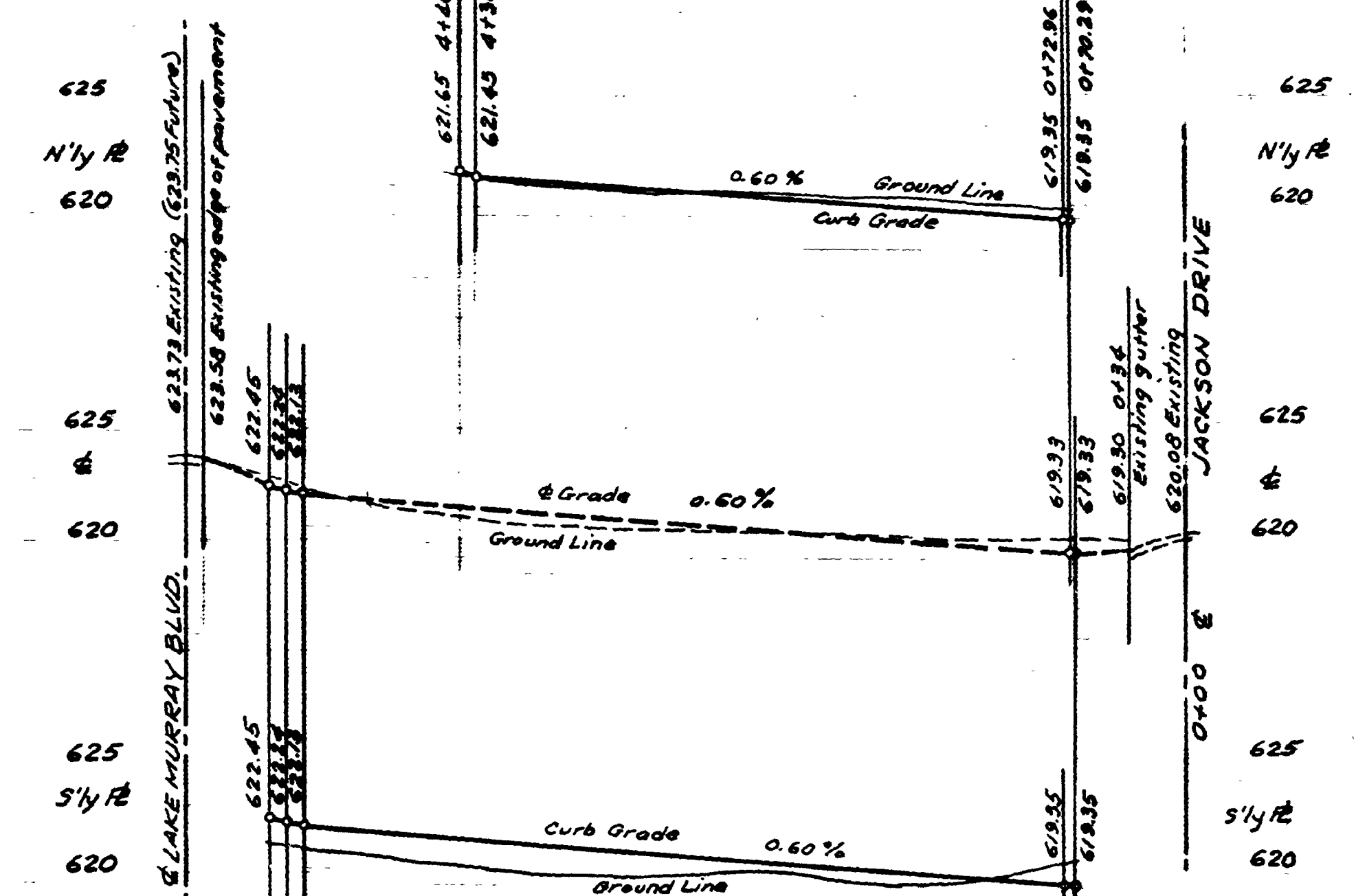
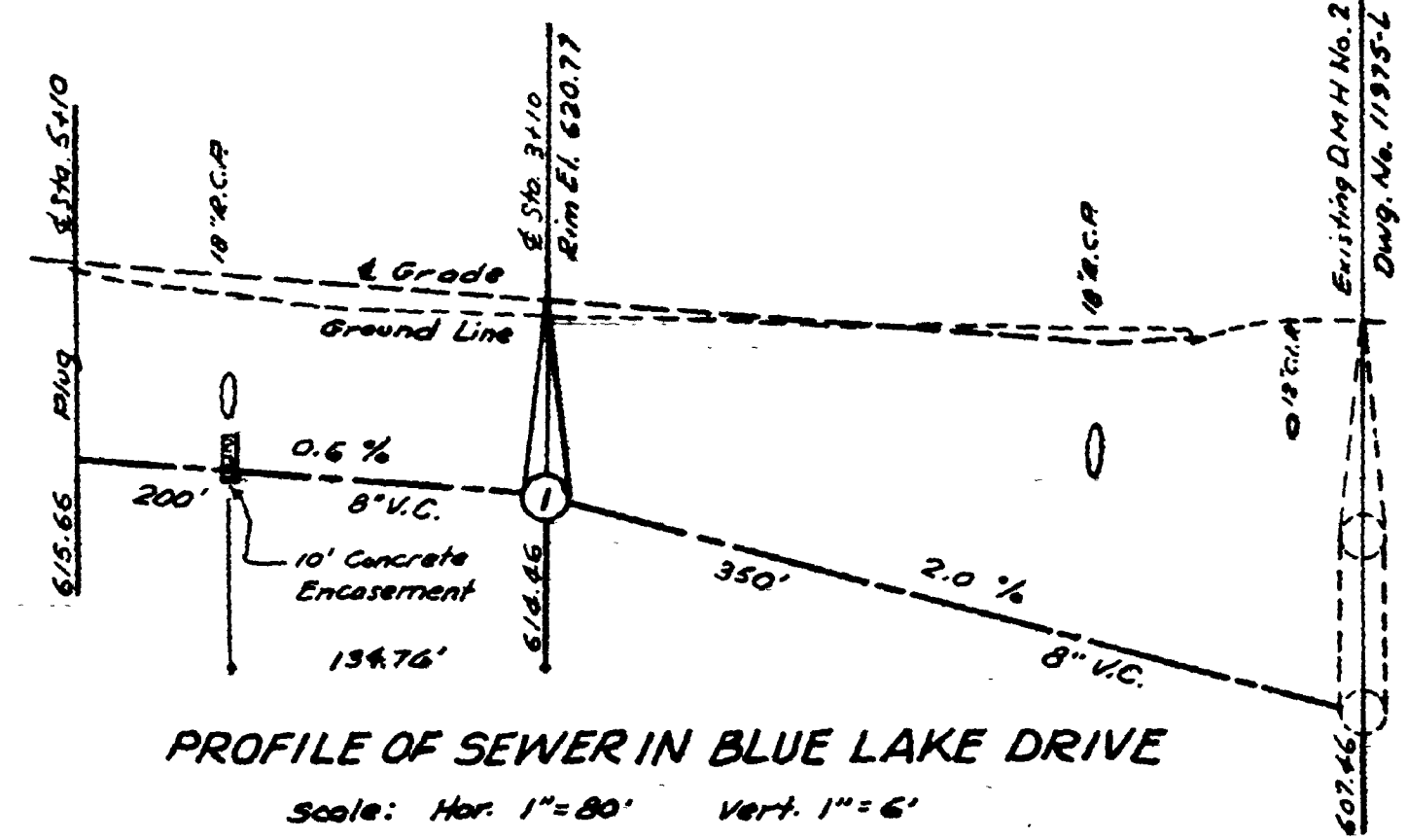


PRIVATE CONTRACT ENGINEER OF WORK *Charles U. Christensen* RE.8195

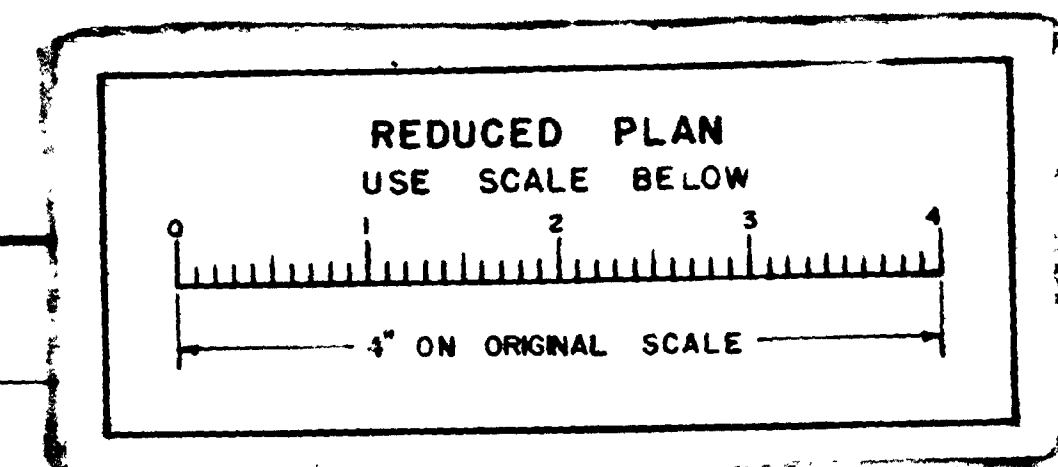
6	CITY OF SAN DIEGO ENGINEERING DEPARTMENT	19
<b>LAKE ALTURAS AVENUE</b>		
COLLEGE RANCH UNIT NO. 1		
APPROVED	<i>[Signature]</i>	DATE 7/20/55
CITY MANAGER	CITY ENGINEER	SCALE As Noted
DRAWN BY	DESIGNED BY	DRAWING NUMBER
CHECKED BY	DATE 4/22/53	11979-L
CONSTRUCTION RECORD		W O No 24502
CONTRACTOR V.R. DENNIS Co.	INSPECTOR M. STURAK	
DATE STARTED 11-3-54	REVISION AS BUILT	DATE 9-13-57 E.W.E.
DATE COMPLETED 5-22-57		

CITY DATUM  
 ADD 6.119 FEET  
 TO CONVERT TO  
 MEAN SEA LEVEL



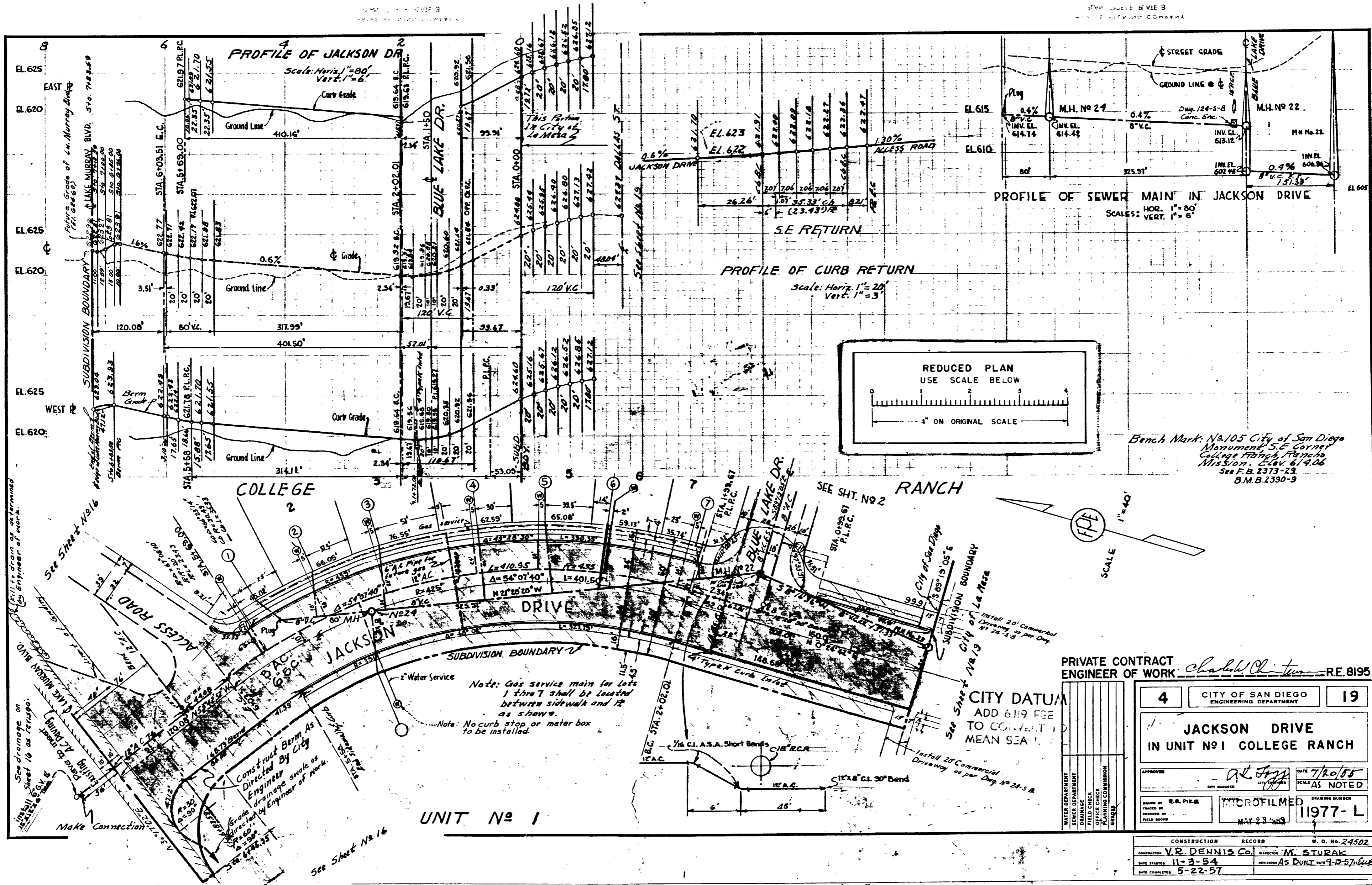


SAN CARLOS UNIT NO. 1		BLUE LAKE DRIVE	
CITY OF SAN DIEGO		ENGINEERING DEPARTMENT	
SHEET 4 OF 4 SHEETS		W.D. NO. 76057	
CHANGE	BY	DATE	APPROVAL
As BUILT	RE	9/1/59	
DATE STARTED		DATE COMPLETED	DATE
11-3-58		2-6-59	9/16/58
CONTRACTOR		DESIGNED	CHECKED
REHAZARD CONTR. (INCORP. BIRDSELL)		STRUCTURAL	GRADES
FIELD BOOK		TRAFFIC	CONTROL
		DESIGNED	
		6222-D	



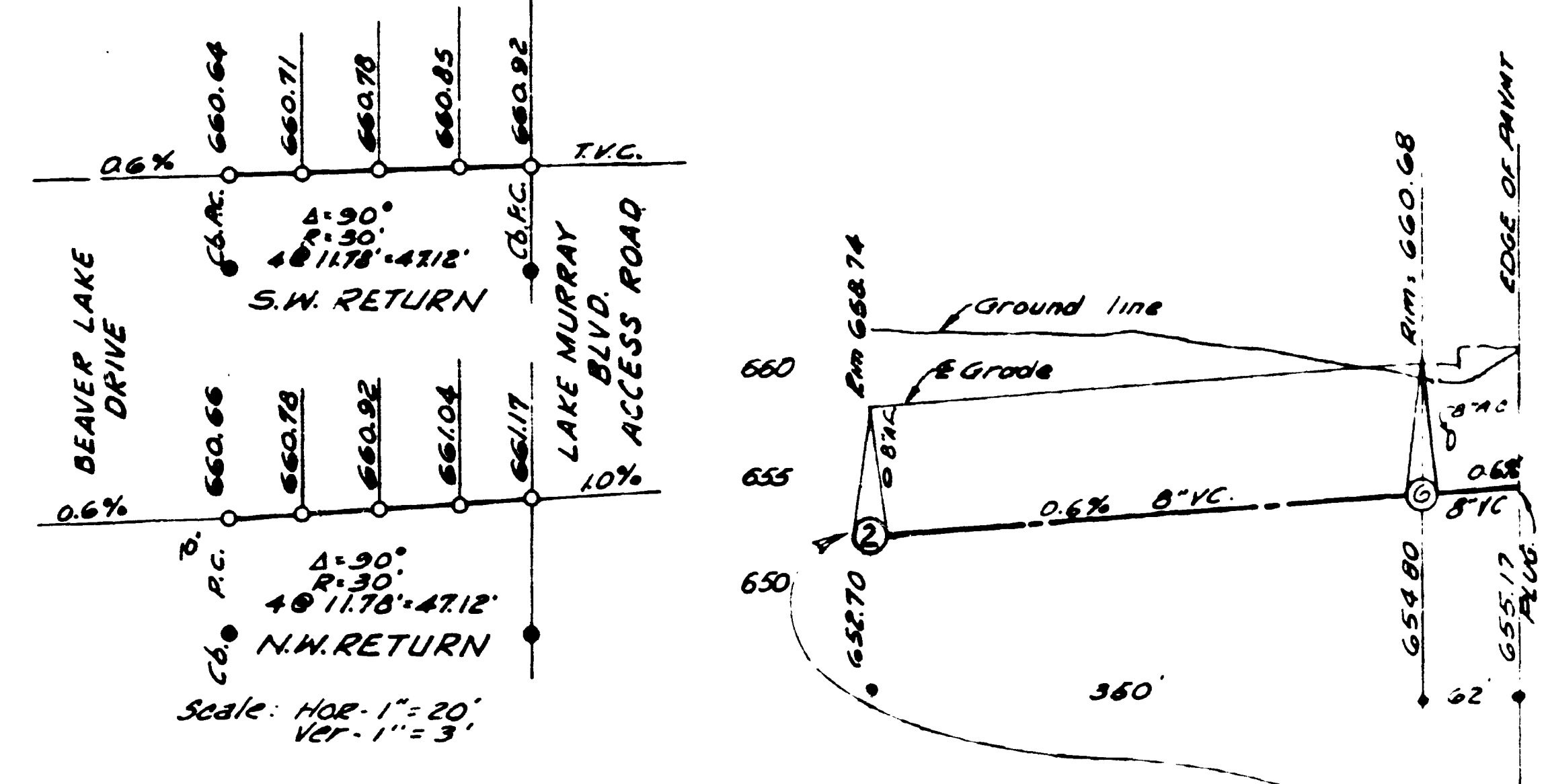
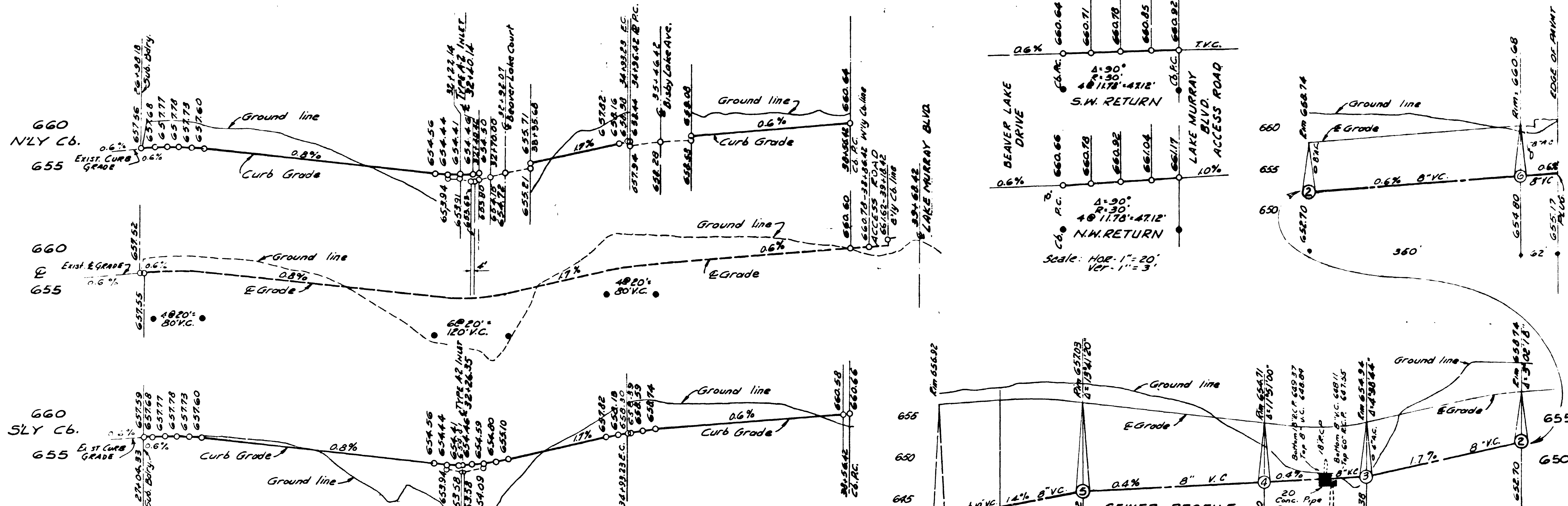
INDEXED  
M-12 1558



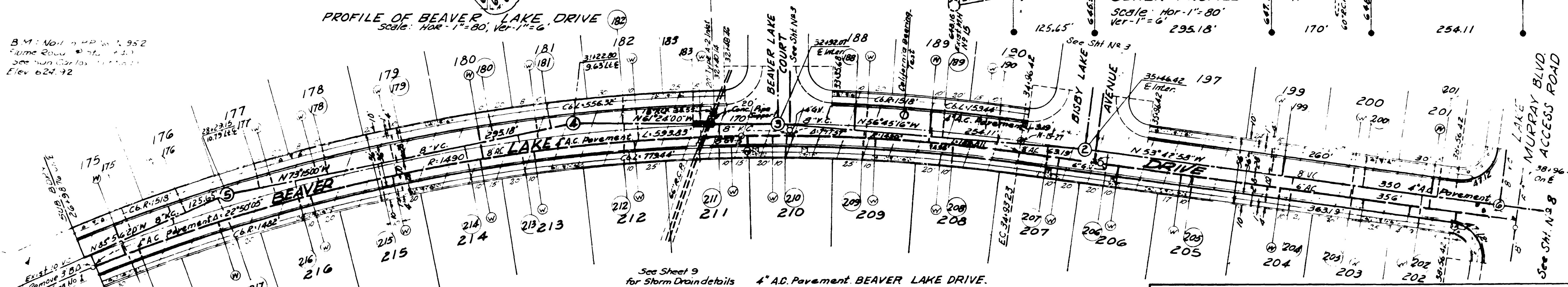




26 28 30 32 34 36 38 40



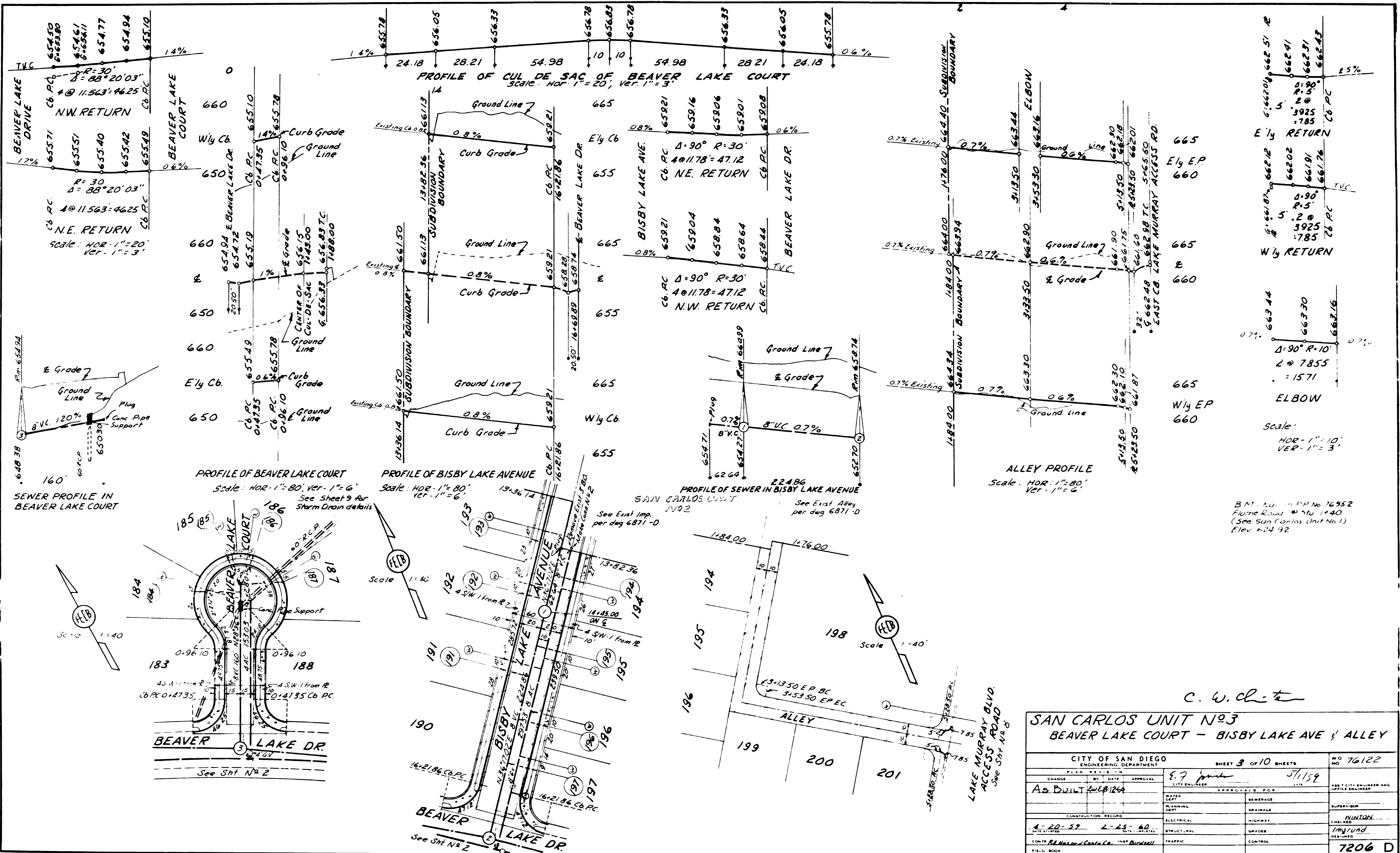
B.M. N 11 1/2 1/2 952  
 1/2 1/2 2000 1/2 1/2 1/2  
 See plan for details  
 Elev 624.92



**SAN CARLOS UNIT N<sup>o</sup> 3 BEAVER LAKE DRIVE**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 2 of 10 SHEETS		W.D. NO. 76122
PLAN	REVISED	DATE	APPROVAL	
AS BUILT	5/15/60			
CONSTRUCTION RECORD		APPROVALS FOR		CITY ENGINEER
WATER DEPT.	PLANNING DEPT.	SEWERAGE	ROADS	
ELECTRICAL	STRUCTURAL	HIGHWAY	BRIDGES	
TRAFFIC	CONTRACT			
DESIGNED BY				7205 D

*C.W. White*



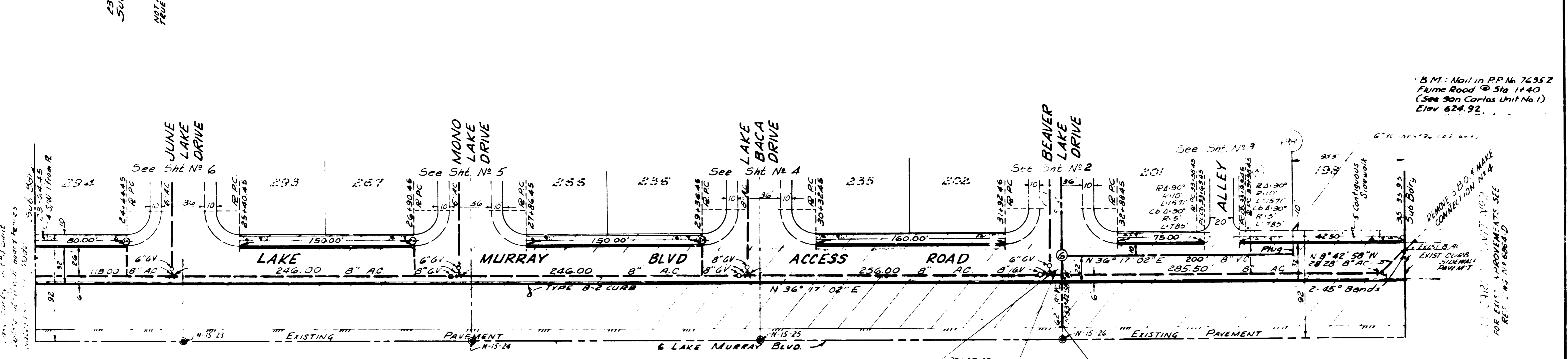
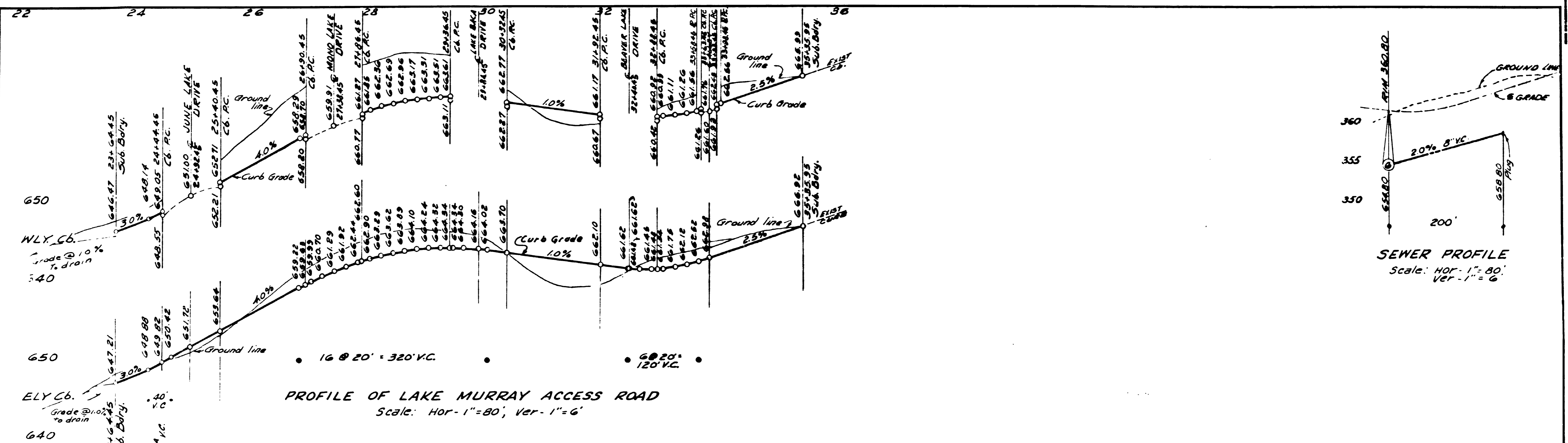
B.M. 14100 PIP No 76952  
Flume Road Sta 1+40  
(See San Carlos Unit No 1)  
Elev 624.92

C. W. Chitt

**SAN CARLOS UNIT NO 3**  
BEAVER LAKE COURT - BISBY LAKE AVE & ALLEY

CITY OF SAN DIEGO ENGINEERING DEPARTMENT			SHEET 3 OF 10 SHEETS		WO NO 76122
DATE	BY	APPROVAL	CITY ENGINEER	APPROVAL P.C.R.	DATE
4-20-59	2-25-60		E. J. J...		5/1/59
CONSTRUCTION RECORD			ELECTRICAL		
DATE LISTED			HIGHWAY		
CONTR. REVISION			STRUCTURAL		
FIELD BOOK			TRAFFIC		
			GRADE		
			CONTROL		
			MINTON		
			CHELSEA		
			7206 D		

PLMED A-4489



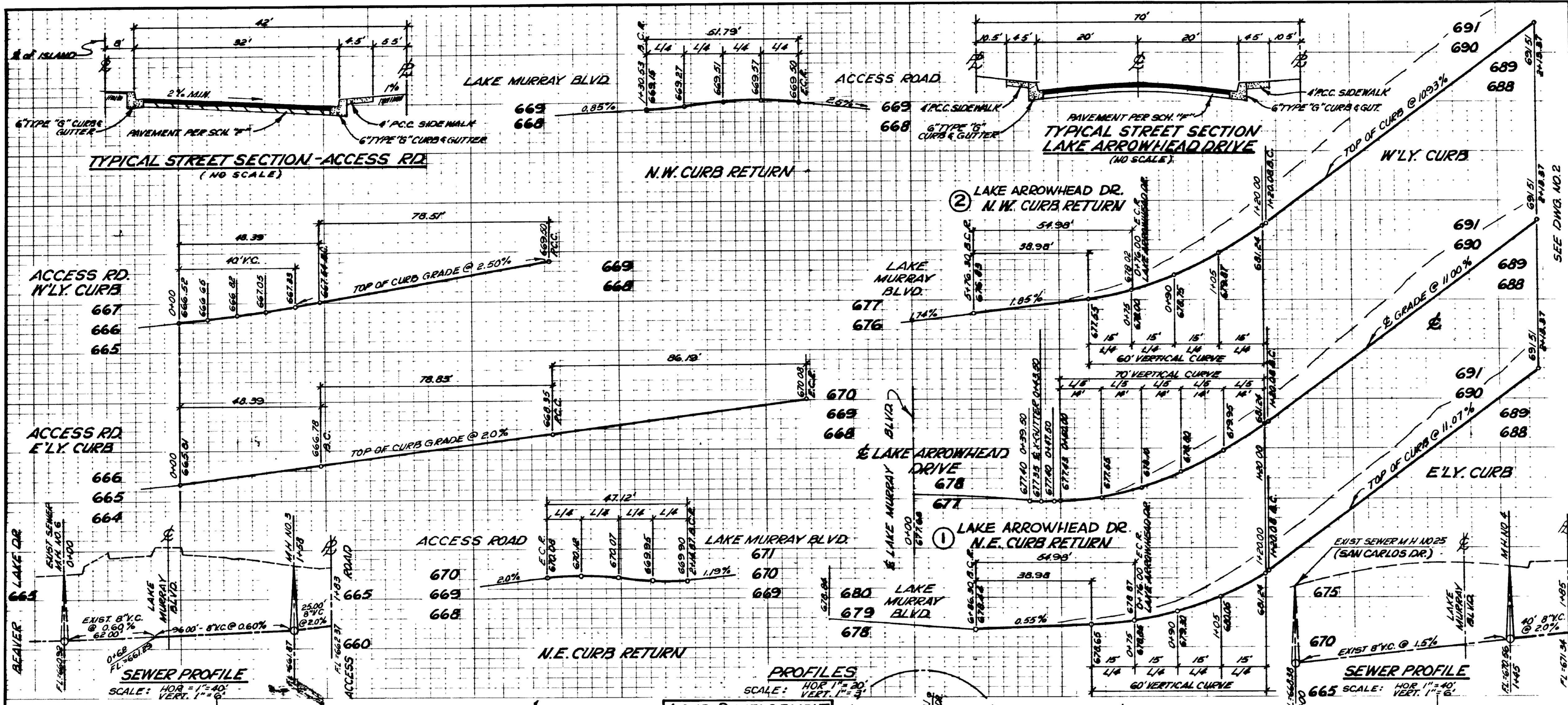
COLLEGE RANCH UNIT No. 2  
MAP No. 3941

SCALE 1"=40'

*C.W. D. te*

**SAN CARLOS UNIT N°3 - LAKE MURRAY BLVD. ACCESS ROAD**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 8 OF 10 SHEETS	WO NO 76122
PLAN REVISION	APPROVAL	APPROVALS FOR	
CHANGE BY DATE	CITY ENGINEER	SEWERAGE	SUPERVISOR
<b>As BUILT</b> 4-26-60		PLANNING	CHECKED
		DRAINAGE	WILSON
CONSTRUCTION RECORD		HIGHWAY	CHECKED
DATE VISITED 4-20-59	DATE COMPLETED 2-26-60	TRAFFIC	IMPROV
CONTR. R.E. Howard & Co. Inc. Bidsell		CONTROL	7211 D
FIELD BOOK			A-4489



**WORK TO BE DONE**  
 THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE FOLLOWING STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY OF SAN DIEGO.

**SPECIFICATIONS**  
 CITY OF SAN DIEGO STANDARD SPECIFICATIONS, DOCUMENT NO. 727751, FILED APRIL 14, 1969.

**STANDARD DRAWINGS**  
 VOL. 68-1, DOC. NO. 726180 FILED NOVEMBER 20, 1968; SPECIAL CONDITIONS NO. P-18 REVISED SEPTEMBER 26, 1969.

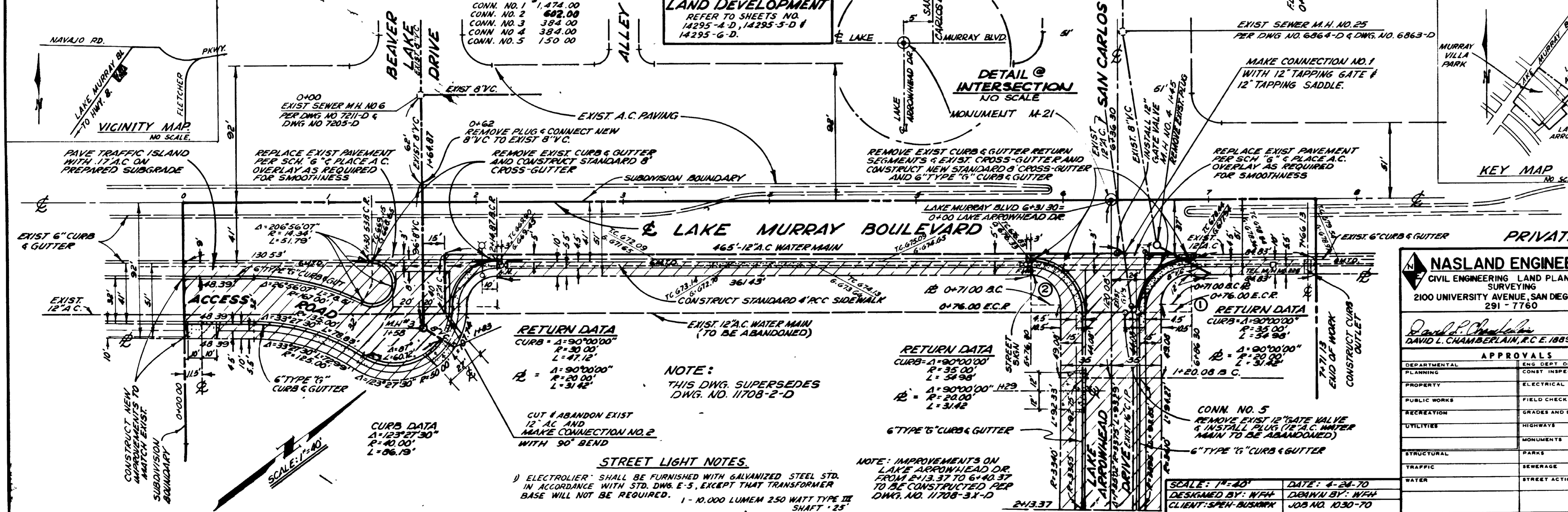
IMPROVEMENTS	STD. DWGS.	SYMBOL
(1) CONCRETE MONUMENT	M-21	⊙
GRADING		▨
PAVING PER SCH. 7"		▨
TYPE "B" CURB & GUTTER	G-45	▨
4" R.C.C. SIDEWALKS	G-4	▨
A.C. WATER MAIN	W-6, W-10, W-61	(12") S.A.C.
8" R.C.C. CROSS-GUTTER	G-32, G-35	▨
FIRE HYDRANT	W-14, W-15, W-17	▨
12" GATE VALVE	N-18	▨
OUTLET	G-20	▨
8" V.C. SEWER MAIN	S-1	▨
STREET NAME SIGN	T-17	▨
CONC. SEWER MANHOLE	S-8	▨
R.C.C. COMMERCIAL DRIVEWAY	G-24	▨
EXIST. WORKS	P-1	▨
STREET LIGHT SYSTEM	E-5, E-17	▨

**AVERAGE DAILY TRAFFIC**  
 LAKE ARROWHEAD: 3000 A.D.T.  
 LAKE ARROWHEAD: 1600 A.D.T.

**BENCH MARK**  
 SW B.P. LAKE MURRAY BLVD. & SAN CARLOS DR.  
 ELEV. 674.78 M.S.L.

**REFERENCE DRAWINGS**  
 12514-L, 14246-L, 14247-L, 7211-D, 6864-D, 13073-2-D, 11708-2-D, 11708-3-D, 11708-4-D, 11708-5-D, 13073-5-D, 11624-3-D

**GENERAL NOTES**  
 SUBDIVIDER SHALL ARRANGE & PROVIDE FOR PUBLIC UTILITY SYSTEMS & SERVICE FACILITIES LOCATED UNDERGROUND AS PROVIDED IN SECTION 102.0701-8 OF MUNICIPAL CODE. PRIOR TO MAKING WITH SAND & WATER, ALL MINERAL AGGREGATE USED FOR THE PRODUCTION OF CEMENT TREATED BASE SHALL HAVE A SAND EQUIVALENT OF NOT LESS THAN 30 WHEN TESTED BY CALIF. DIV. OF HIGHWAY TESTING METHOD NO. 217.  
 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE THE NECESSARY ARRANGEMENTS WITH THE PROPER UTILITY CO. FOR THE RELOCATION AND/OR REMOVAL OF EXISTING FACILITIES.  
 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY OF SAN DIEGO 48 HOURS BEFORE BEGINNING OF WORK.  
 THE CONTRACTOR SHALL CALL FOR INSPECTION 24 HOURS IN ADVANCE.  
 ANY WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 ELECTRICAL AND TELEPHONE SERVICE FACILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH ORDINANCE NO. 10064-MS.



**DETAIL @ INTERSECTION**  
 NO SCALE  
 MONUMENT M-21

**MAKE CONNECTION NO. 1**  
 WITH 12" TAPPING GATE & 12" TAPPING SADDLE.

**REPLACE EXIST PAVEMENT**  
 PER SCH. 7" & PLACE A.C. OVERLAY AS REQUIRED FOR SMOOTHNESS

**REPLACE EXIST PAVEMENT**  
 PER SCH. 6" & PLACE A.C. OVERLAY AS REQUIRED FOR SMOOTHNESS

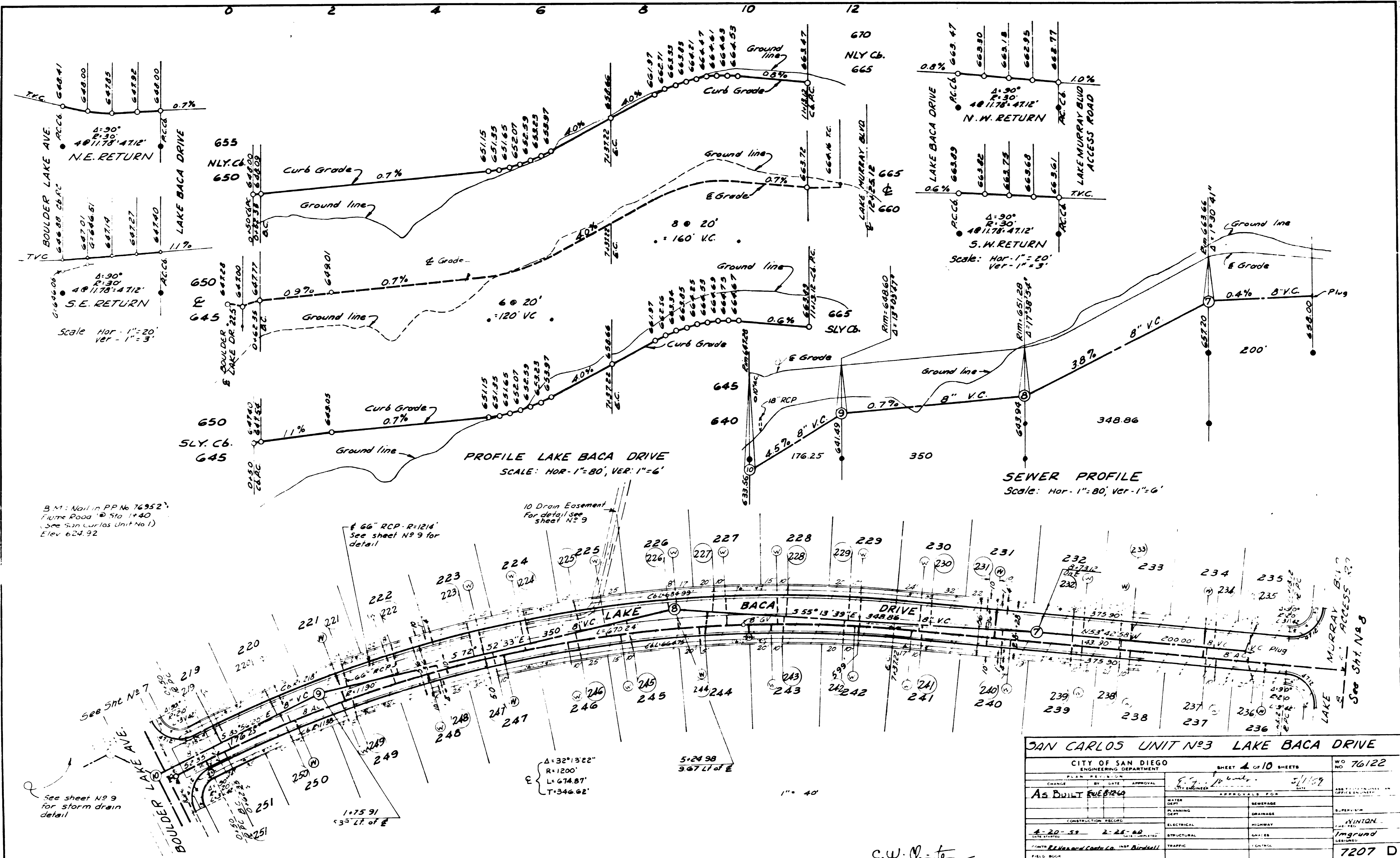
**REPLACE EXIST PAVEMENT**  
 PER SCH. 6" & PLACE A.C. OVERLAY AS REQUIRED FOR SMOOTHNESS

**PRIVATE CONTRACT**

<b>NASLAND ENGINEERING</b> CIVIL ENGINEERING, LAND PLANNING, SURVEYING 2100 UNIVERSITY AVENUE, SAN DIEGO, CALIFORNIA 921-7760	
APPROVALS	
PLANNING	ENG. DEPT. DIVISION OR SECTION
PROPERTY	ELECTRICAL
PUBLIC WORKS	FIELD CHECK
RECREATION	GRADES AND DRAINS
UTILITIES	HIGHWAYS
STRUCTURAL	MONUMENTS
TRAFFIC	PARCELS
WATER	SEWERAGE
	STREET ACTIONS

**PLANS FOR THE IMPROVEMENTS OF PORTIONS OF LAKE ARROWHEAD DRIVE & THE ACCESS ROAD ON EAST SIDE OF LAKE MURRAY BLVD.**  
 MURRAY VILLA PARK, MAP NO.

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 1 OF 3 SHEETS		W.O. 74 69-131 NO. 78001
DATE: 8-25-70		DIVISION HEAD
DESCRIPTION	BY	APPROVED
DATE	FILED	NO. 10
ORIGINAL		REGISTERED ENGINEER
		CONTROL CERTIFICATION
		230-1765
		LATEST COORDINATES
CONTRACTOR	DATE STARTED	142951-D
INSPECTOR	DATE COMPLETED	



B.M.: Nail in PP No 76952,  
Flume Road Sta 1+40  
(See San Carlos Unit No 1)  
Elev. 624.92

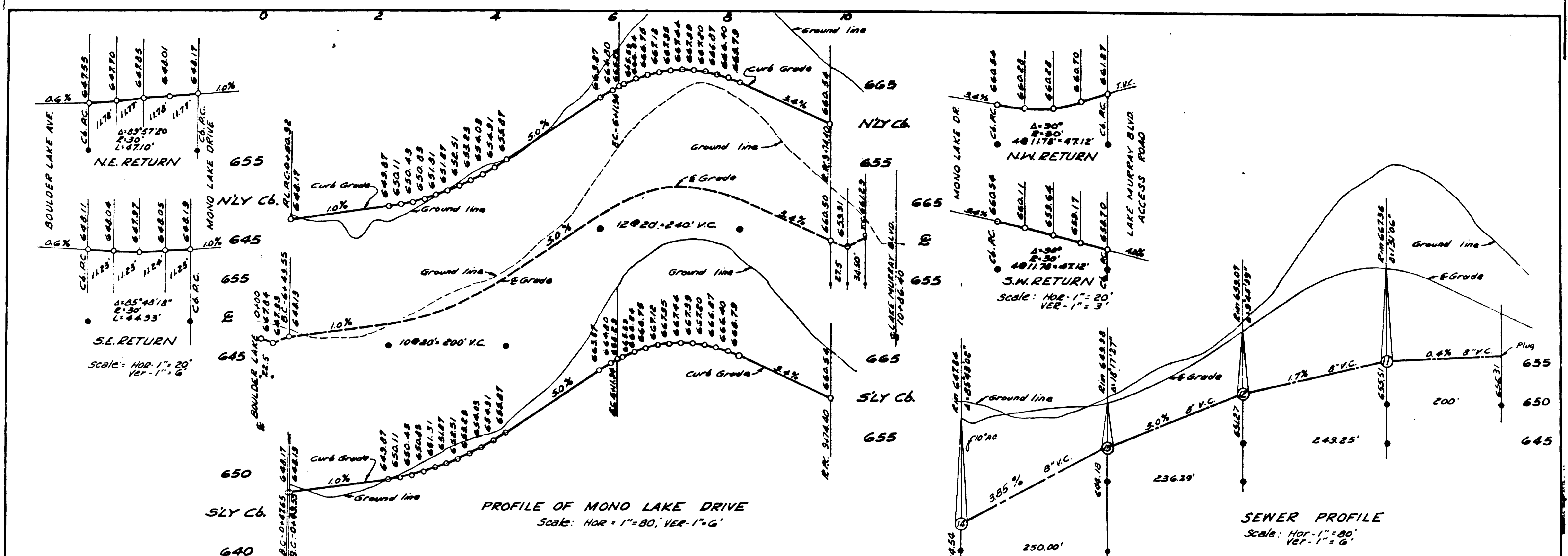
See sheet N9 9  
for storm drain  
detail

LAKE MURRAY BLVD  
ACCESS ROAD  
See Sht. No 8

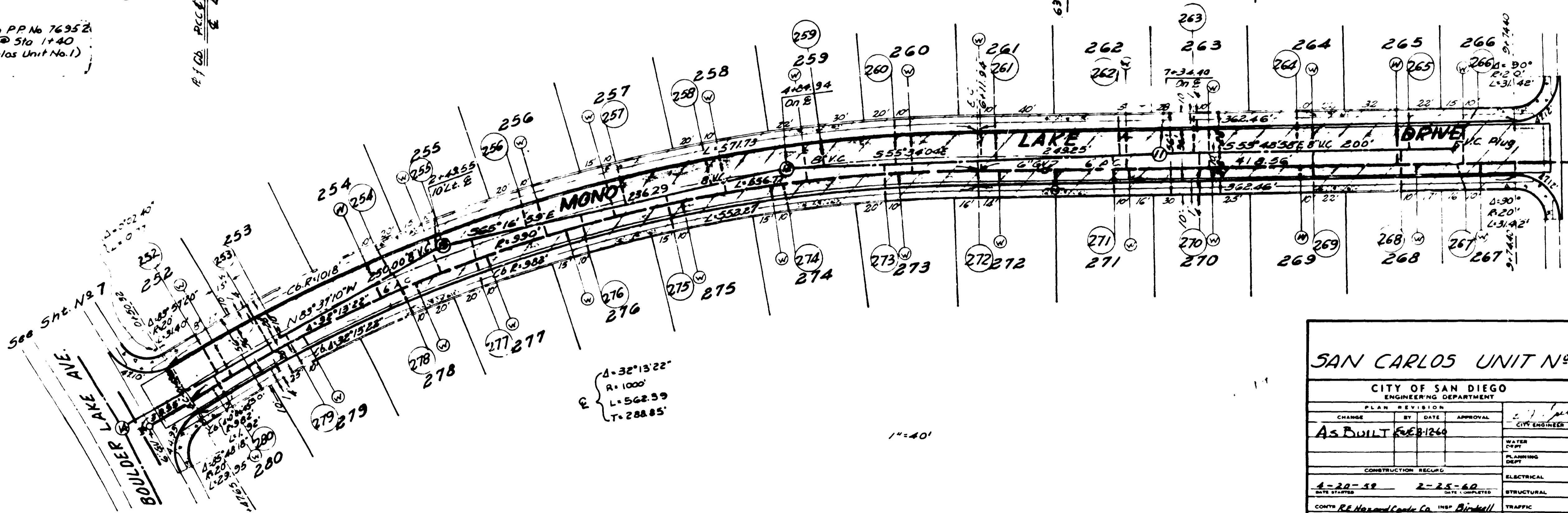
SAN CARLOS UNIT NO 3 LAKE BACA DRIVE			
CITY OF SAN DIEGO		SHEET 4 OF 10 SHEETS	
ENGINEERING DEPARTMENT		NO. 76122	
PLAN	REVISION	DATE	BY
CHANGE	BY	DATE	APPROVAL
<b>AS BUILT</b> FEB 8 1969		APPROVALS FOR	
CONSTRUCTION REQUIRED		WATER DEPT.	SEWERAGE
ELECTRICAL		PLANNING DEPT.	HIGHWAY
STRUCTURAL		STREETS	UTILITIES
TRAFFIC		ENGINEERING	CONTRACT
FIELD BOOK			

*C.W. [Signature]*

A-4489



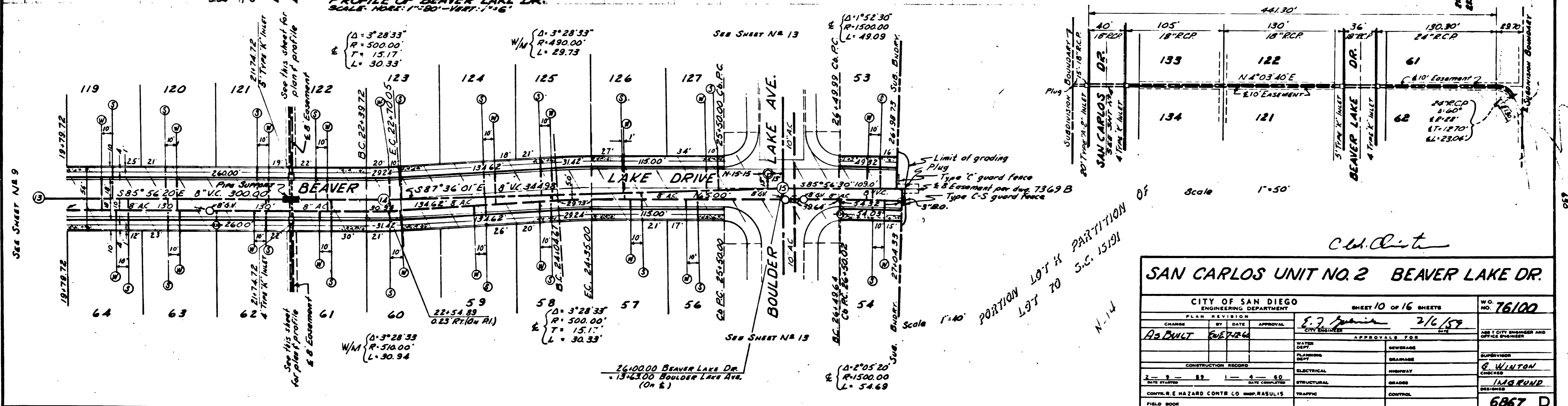
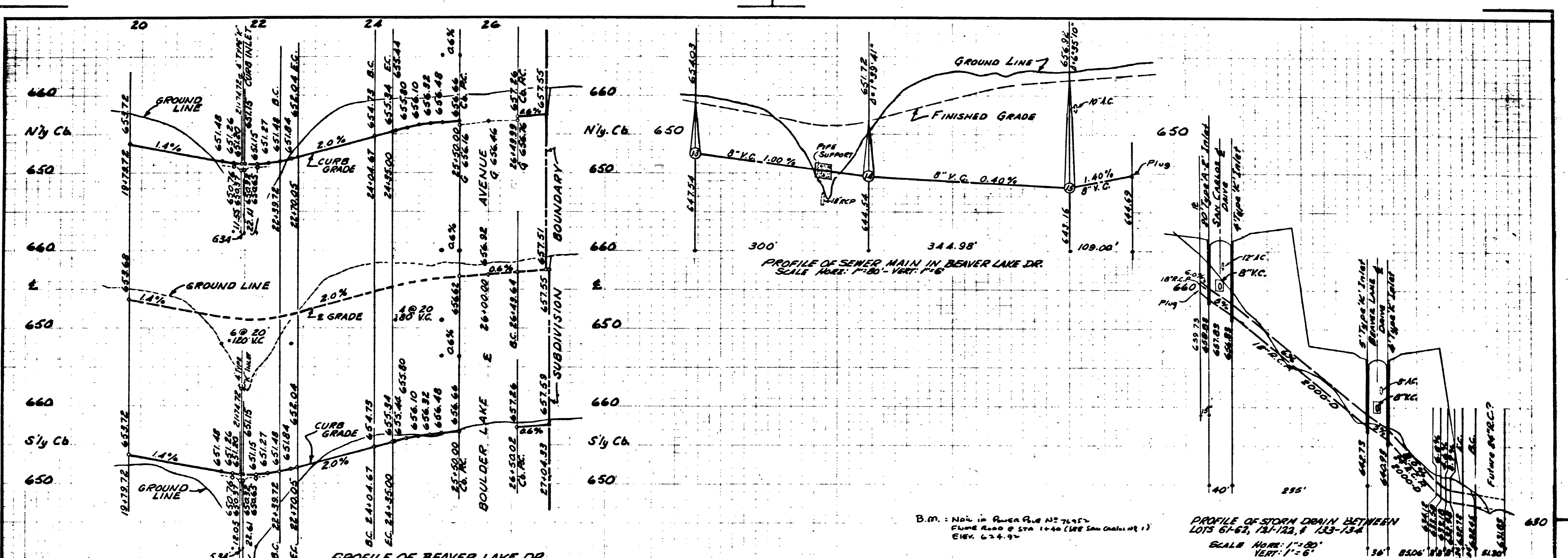
B.M.: Nail in PP No 76352  
Flume Road @ Sta 1+40  
(See San Carlos Unit No. 1)  
Elev 624.92



**SAN CARLOS UNIT N<sup>o</sup> 3 MONO LAKE DRIVE**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 5 OF 10 SHEETS	NO 76122
PLAN REVISION		DATE	BY
AS BUILT FEB 1964		3/1/59	
CONSTRUCTION RECORD		APPROVALS FOR	
WATER	SEWERAGE	CIVIL ENGINEER	CITY ENGINEER
PLANNING DEPT.	DRAINAGE		
ELECTRICAL	HIGHWAY		
STRUCTURAL	GRADES		
TRAFFIC	CONTROL		
DATE SHIPPED: 2-25-60		SUPERVISOR: WINTON	
CONTRACTOR: RE Hazard Control Co. INC. (M. Mitchell)		CONTRACT NO: 7208 D	





**SAN CARLOS UNIT NO. 2 BEAVER LAKE DR.**

CITY OF SAN DIEGO  
ENGINEERING DEPARTMENT

PLAN REVISION SHEET 10 OF 16 SHEETS W.O. NO. 76100

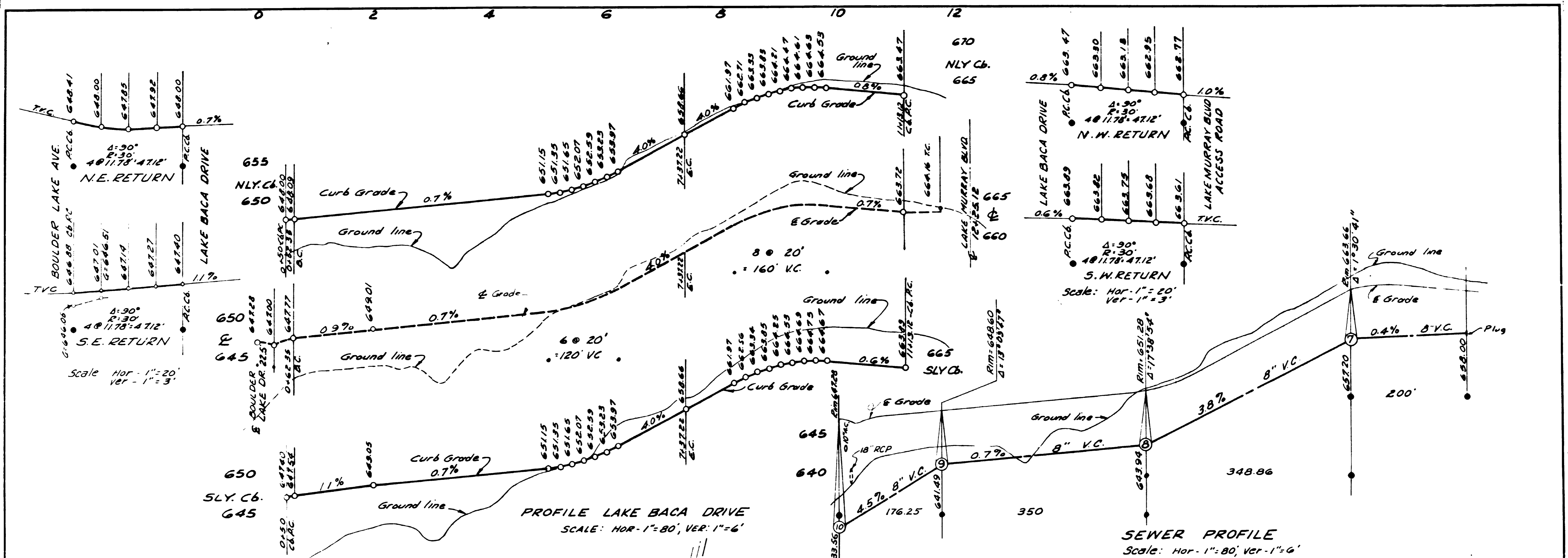
CHANGES	BY	DATE	APPROVAL	DATE
AS BUILT	2/6/57	2/6/57		

APPROVALS FOR:

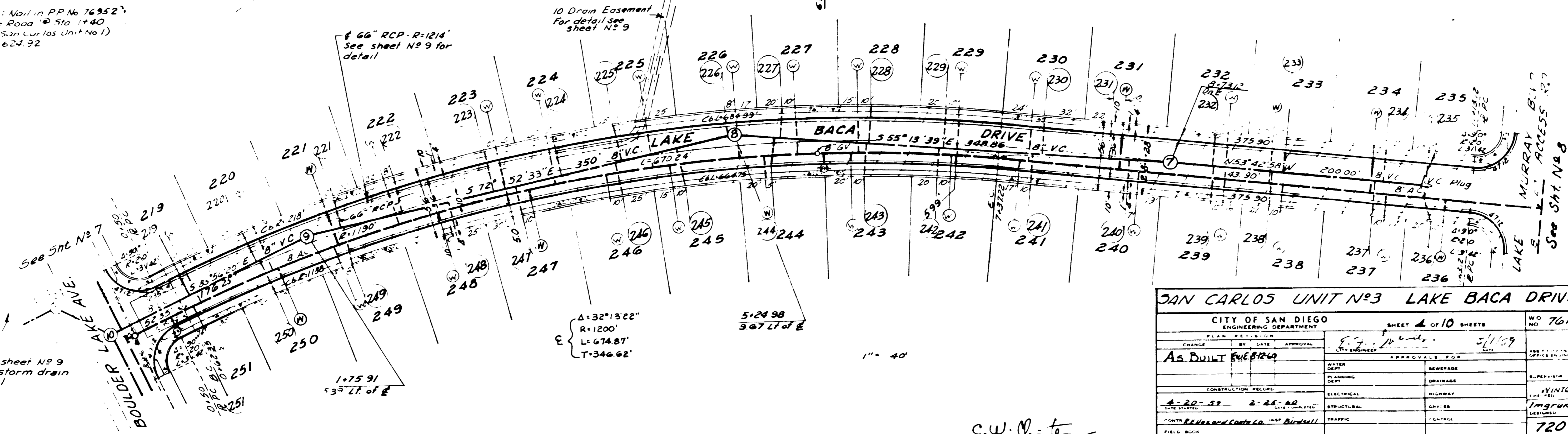
WATER	SEWERAGE	SUPERVISOR
PLUMBING	DRAINAGE	W. WINTON
ELECTRICAL	HIGHWAY	INCHURNE
STRUCTURAL	GRADES	6867 D
CONTR. R. E. HAZARD CONTR. CO. IMP. RASULIS	TRAFFIC	CONTROL

FIELD BOOK

JUN 12 1957 MICROFILMED JUN 4 1983 INDEXED



B.M.: Nail in PP No 76952,  
Flume Road Sta 1+40  
(See San Carlos Unit No 1)  
Elev. 624.92



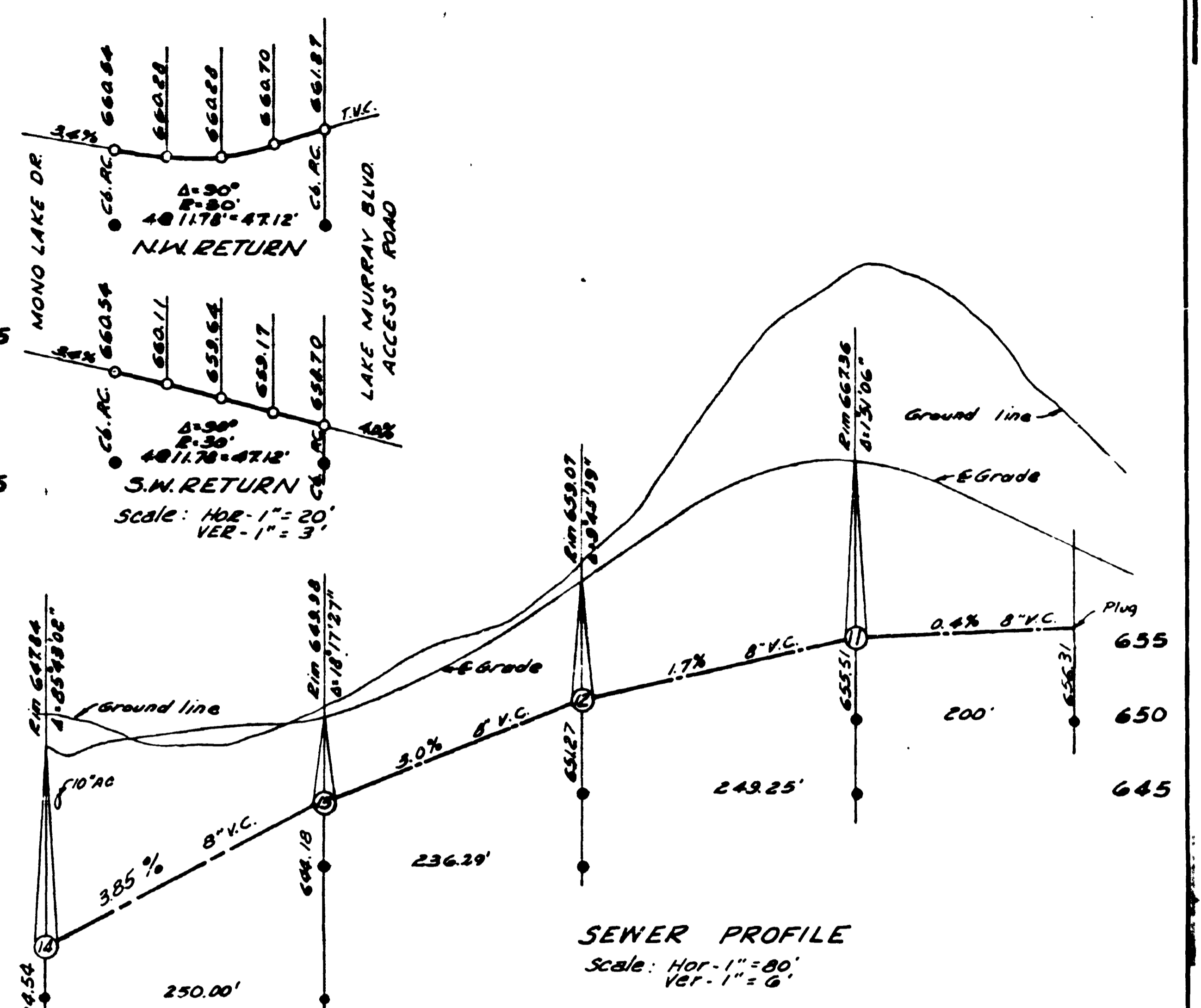
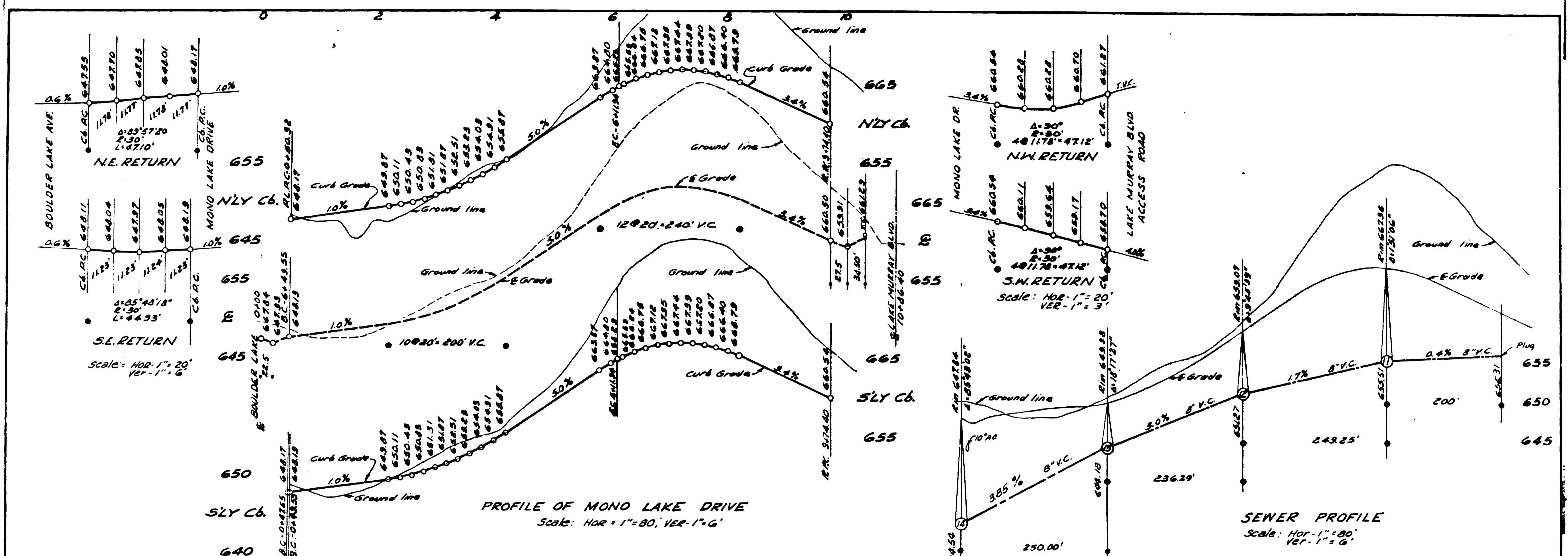
See sheet No 9  
for storm drain  
detail

See Sht. No 8

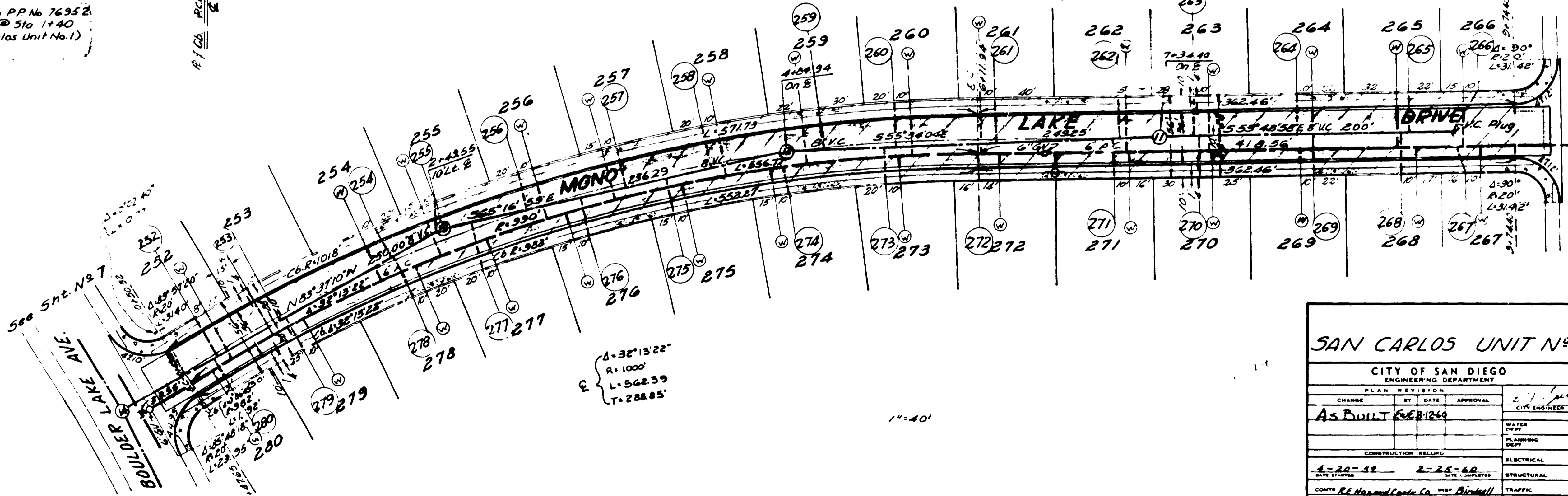
SAN CARLOS UNIT NO 3 LAKE BACA DRIVE			
CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 4 OF 10 SHEETS	
NO. 76122		DATE: 5/1/59	
PLANNING DEPT.	APPROVAL	APPROVALS FOR	APPROVALS FOR
AS BUILT 5/1/59		WATER DEPT.	SEWERAGE
		PLANNING DEPT.	HIGHWAY
CONSTRUCTION REQUIRED		ELECTRICAL	UTILITIES
4-22-58	2-24-60	STRUCTURAL	GRADES
CONTR. R. H. HARRIS & CO. INC.	INSP. Rickhall	TRAFFIC	CONTROL
FIELD BOOK			
			7207 D

c.w. [Signature]

A-4489

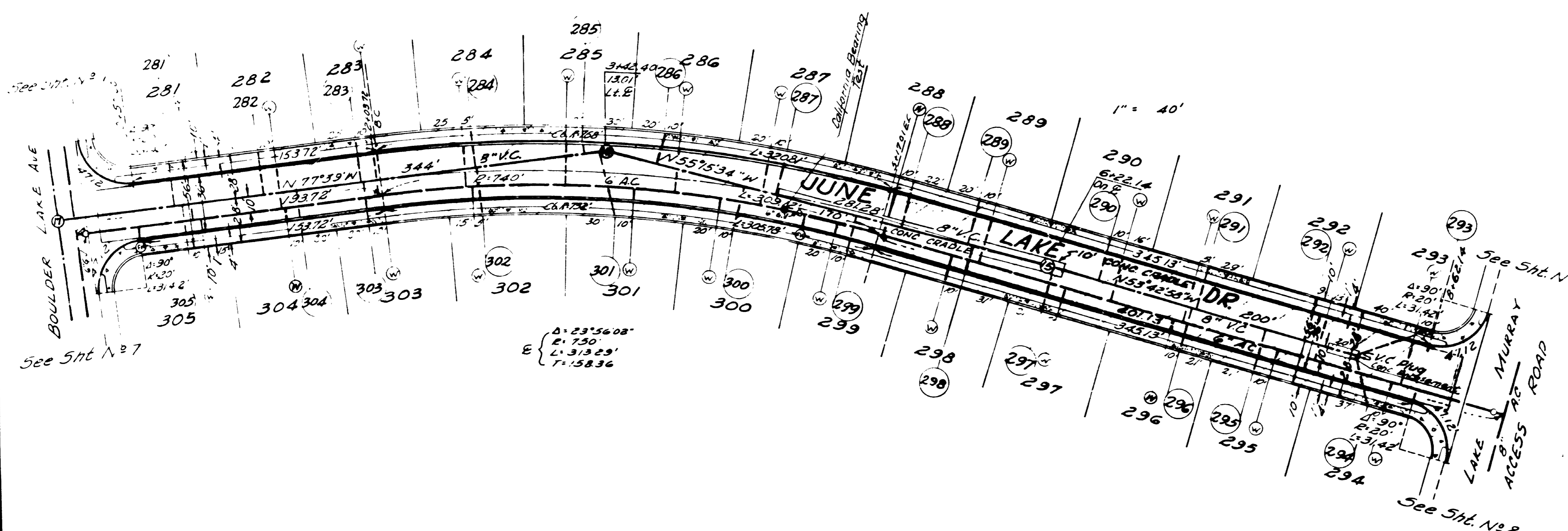
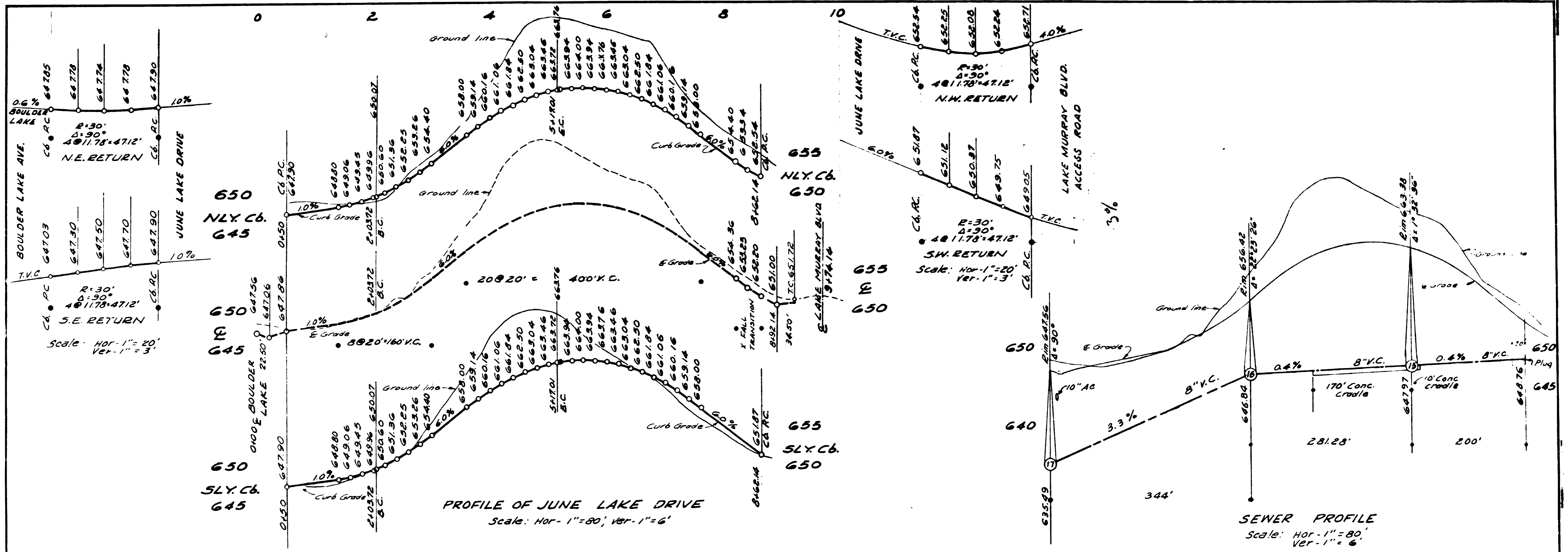


B.M.: Nail in PP No 76352  
Flume Road @ Sta 1+40  
(See San Carlos Unit No. 1)  
Elev 624.92



**SAN CARLOS UNIT N<sup>o</sup> 3 MONO LAKE DRIVE**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 5 OF 10 SHEETS	NO 76122
PLAN REVISION	DATE	APPROVAL	BY
AS BUILT	6/28/64	[Signature]	3/1/59
CONSTRUCTION RECORD		APPROVALS FOR	
WATER	SEWERAGE	PLANNING DEPT.	DRAINAGE
ELECTRICAL	HIGHWAY	STRUCTURAL	GRADES
TRAFFIC	CONTROL	SUPERVISOR	
DATE SHIPPED: 4-20-58		DATE COMPLETED: 2-25-60	
CONTRACTOR: RE Hazard Control Co. INC. [Signature]		SUPERVISOR: WINTON	
FIELD BOOK		7208 D	



C.W. D. [Signature]

**SAN CARLOS UNIT No. 3 JUNE LAKE DRIVE**

CITY OF SAN DIEGO ENGINEERING DEPARTMENT		SHEET 6 OF 10 SHEETS		WO NO 76122
CHANGE	BY	DATE	APPROVAL	CITY ENGINEER
As BUILT	[Signature]	2-25-60	[Signature]	[Signature]
CONSTRUCTION RECORD		APPROVALS FOR		ADDITIONAL ENGINEER AND OFFICE ENGINEER
DATE STARTED	DATE COMPLETED	SEWERAGE	PLANNING DEPT.	SUPERVISOR
4-20-59	2-25-60	DRAINAGE	HIGHWAY	WINTON
CONTRACTOR: R. & M. Construction Co., Inc. (D. D. D. [Signature])		ELECTRICAL	TRAFFIC	INGRAND
FIELD BOOK		SPACES	CONTROL	7209 D

A-4485

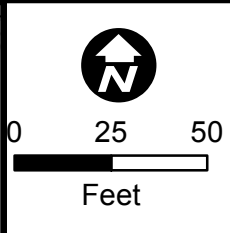
64790 23580

**APPENDIX P**  
**UTILITIES AS-BUILT**

## Conductor Path Map- Pipeline Rehab AQ-1

16327-119045

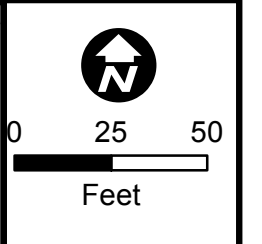
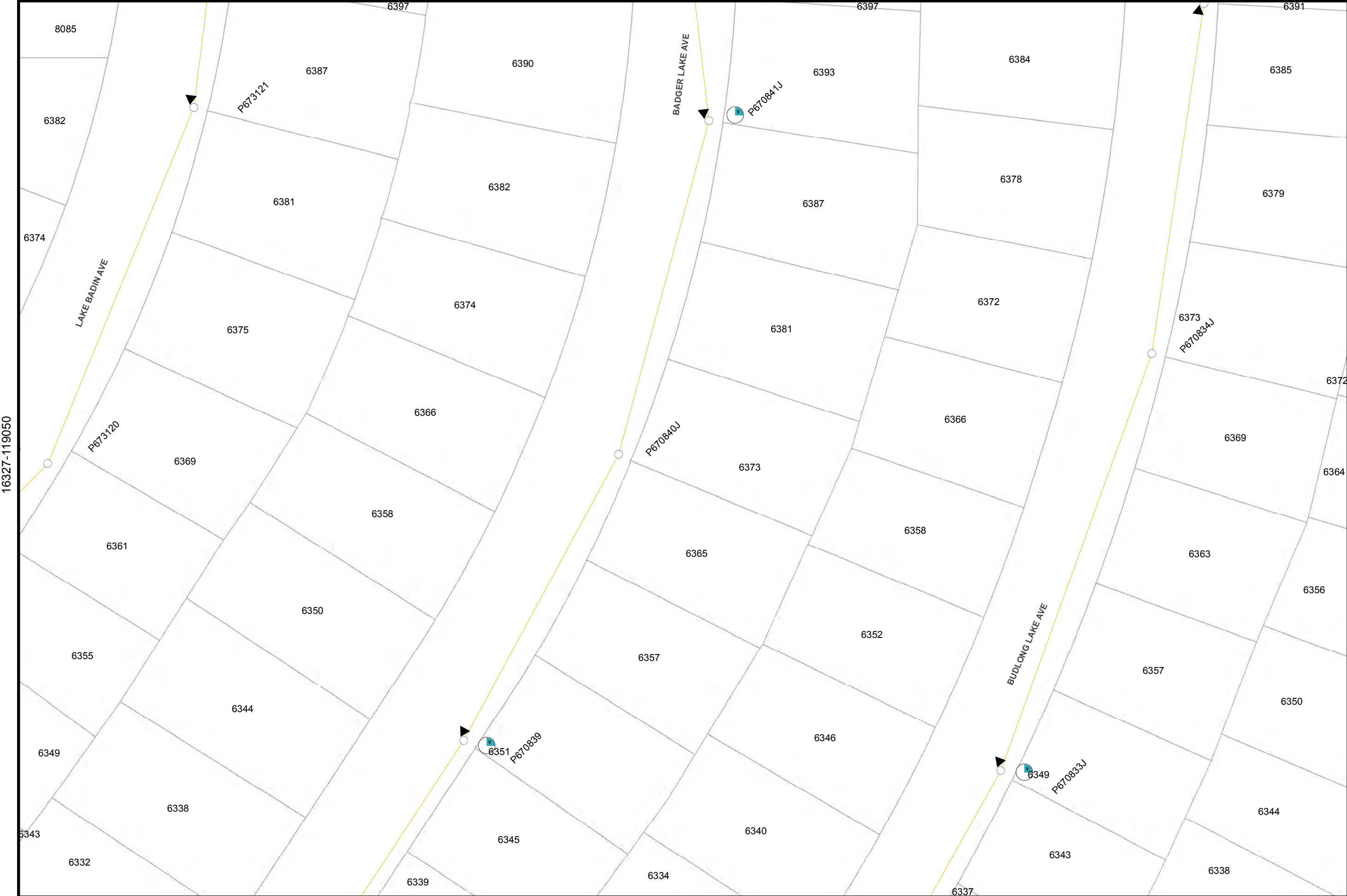
16342-119045



Map Number: 16335-119045  
 Map Type: **Conductor Path Map**  
 Printed By: CORPISBarton2  
 Printed Date: 12/13/2017

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Map Number: 16335-119050  
 Map Type: **Conductor Path Map**  
 Printed By: CORPISBarton2  
 Printed Date: 12/13/2017

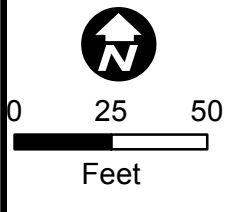
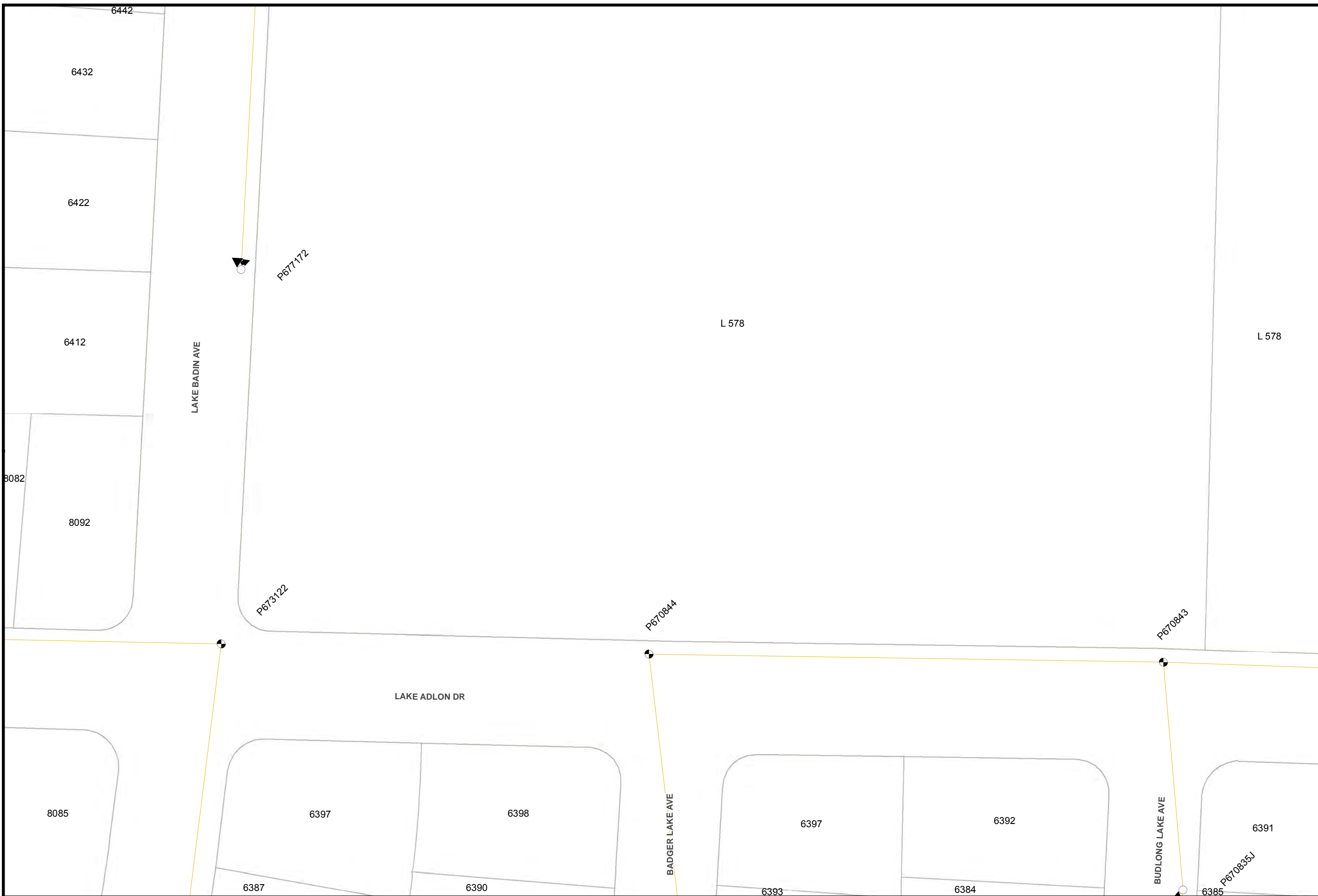
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16327-119055

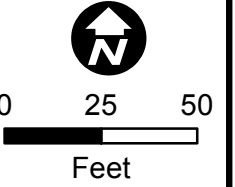
16342-119055



Map Number: 16335-119055
Map Type: <b>Conductor Path Map</b>
Printed By: CORP/ISBarton2
Printed Date: 12/13/2017

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16327-119065



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Map Type: <b>Conductor Path Map</b>
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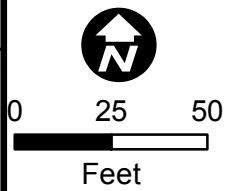
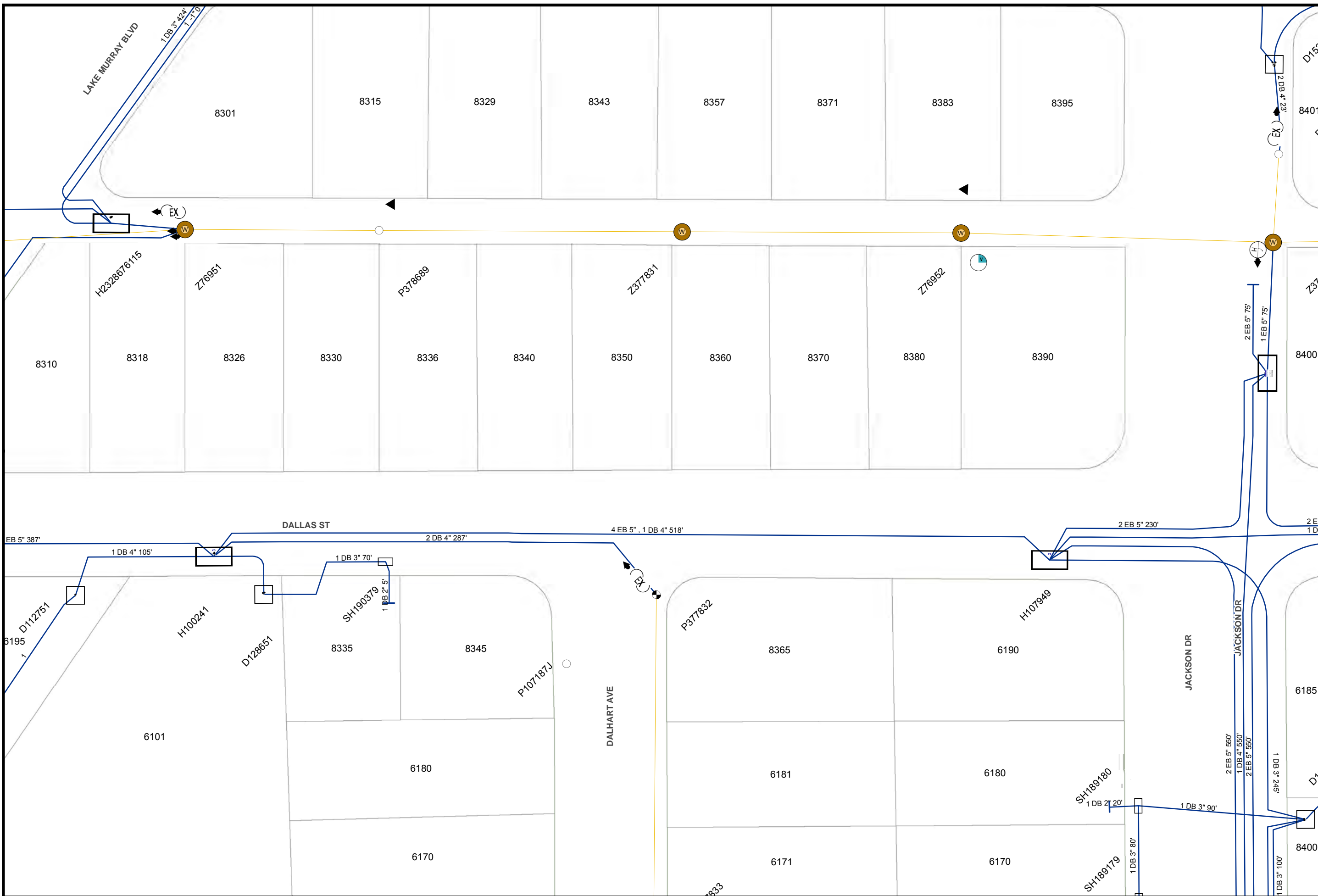
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16342-119065

16335-119030

16350-119030

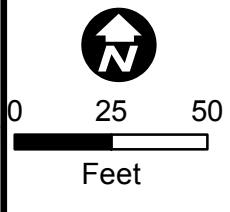
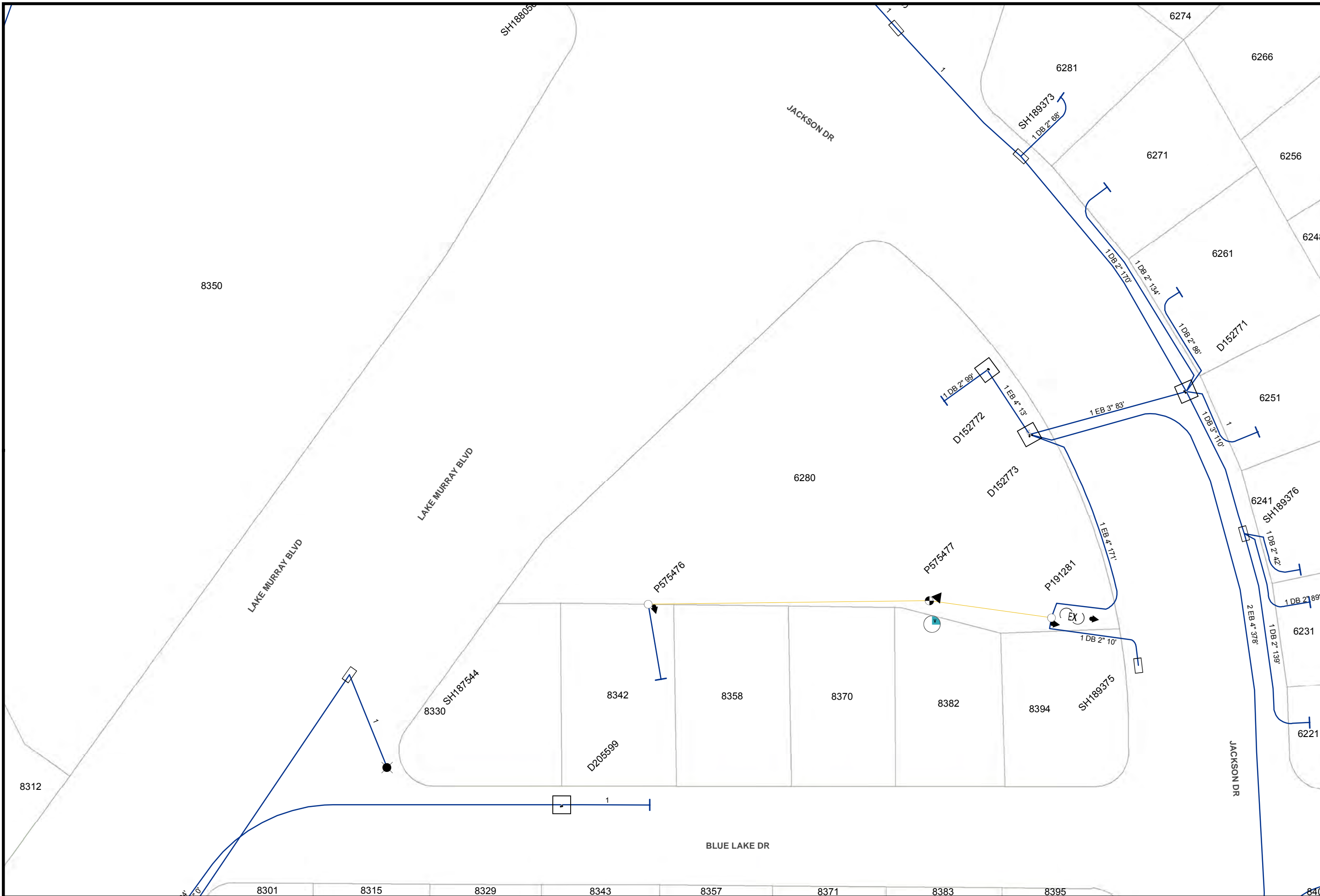


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16335-119035

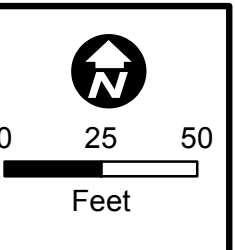
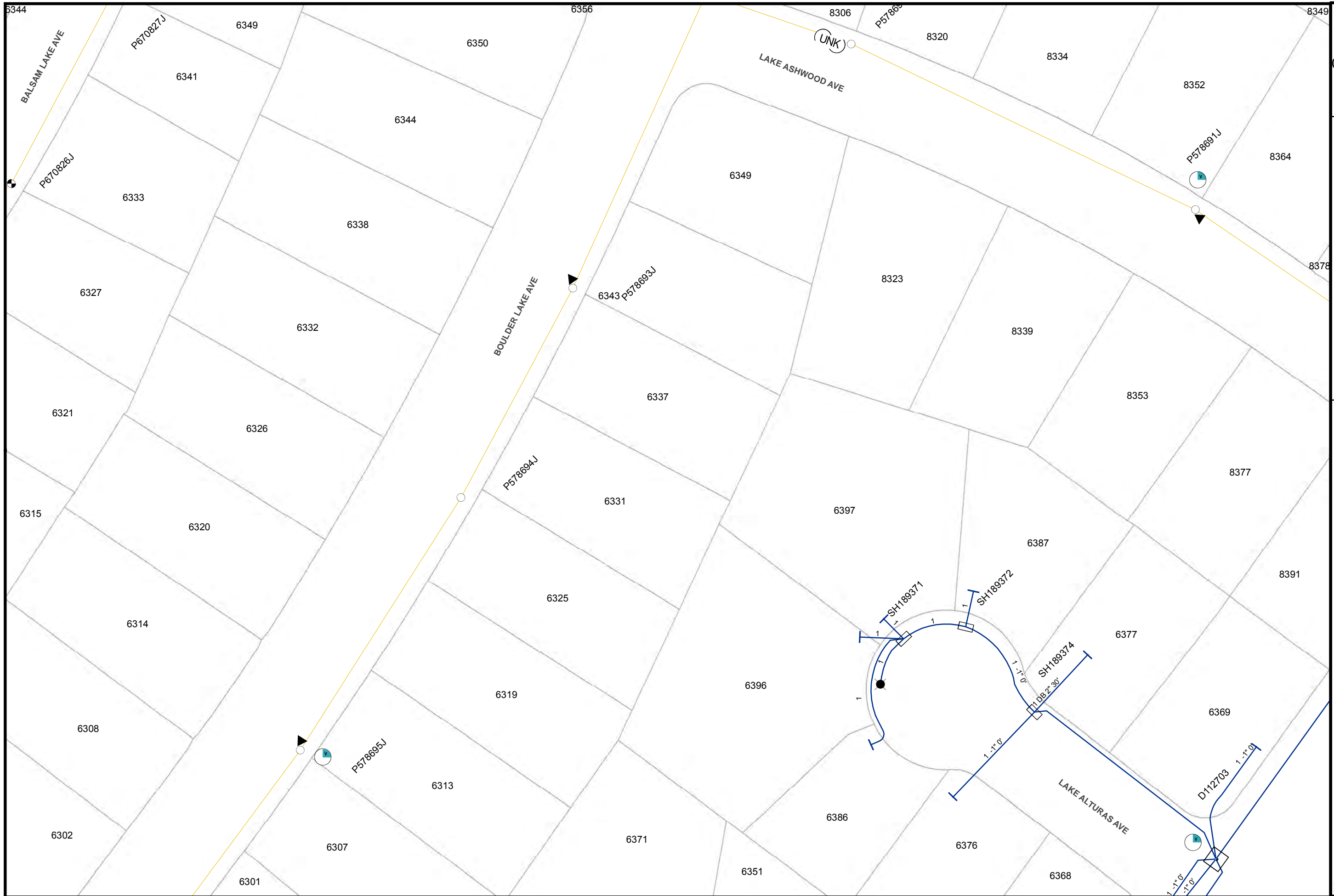


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16350-119035



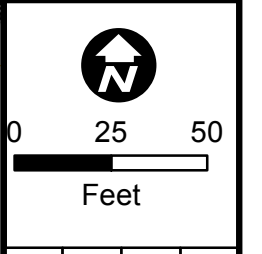
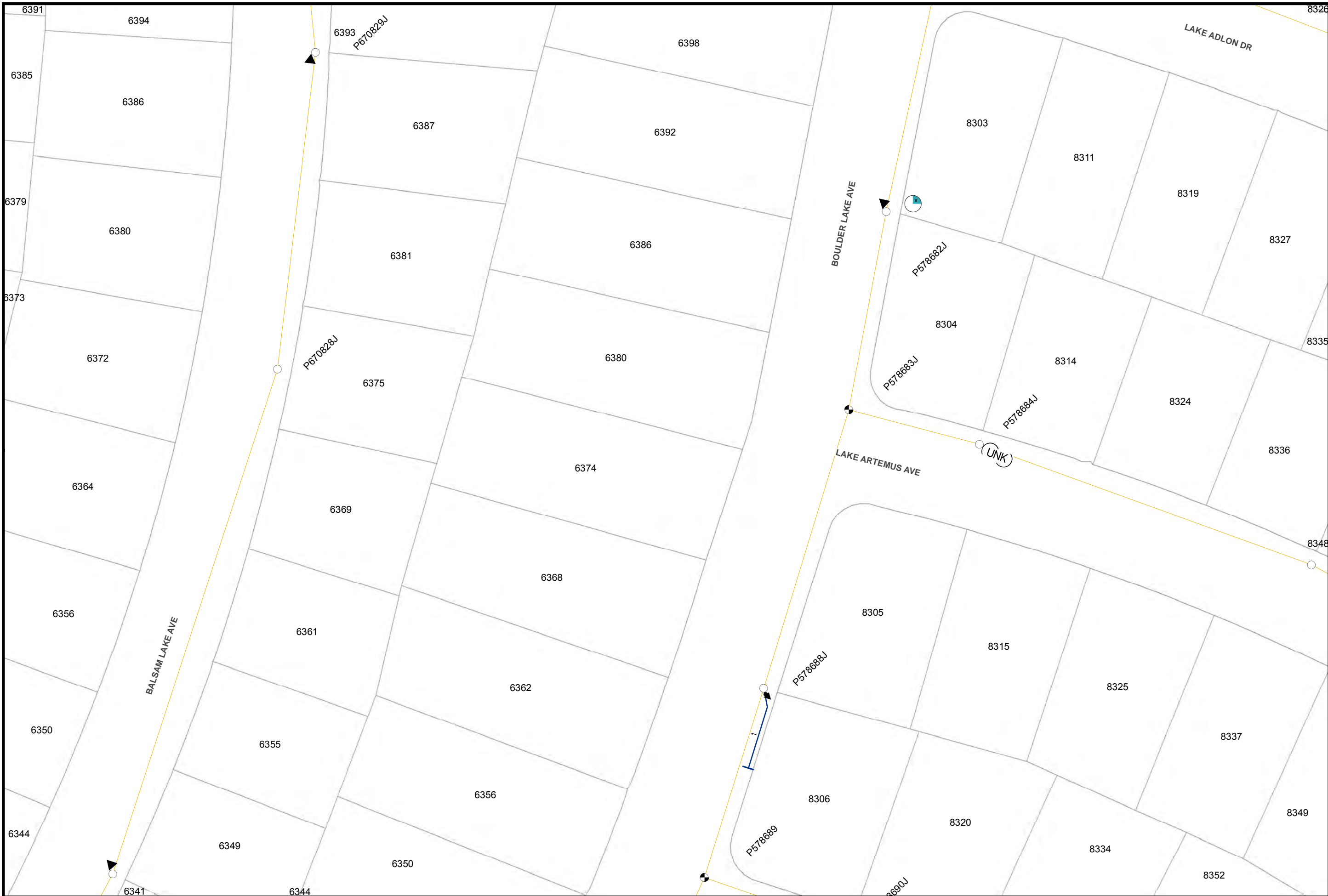
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16335-119050

16350-119050

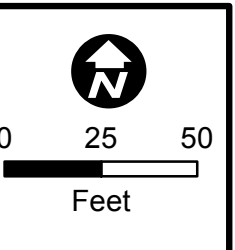


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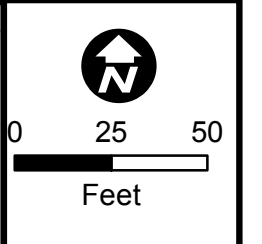
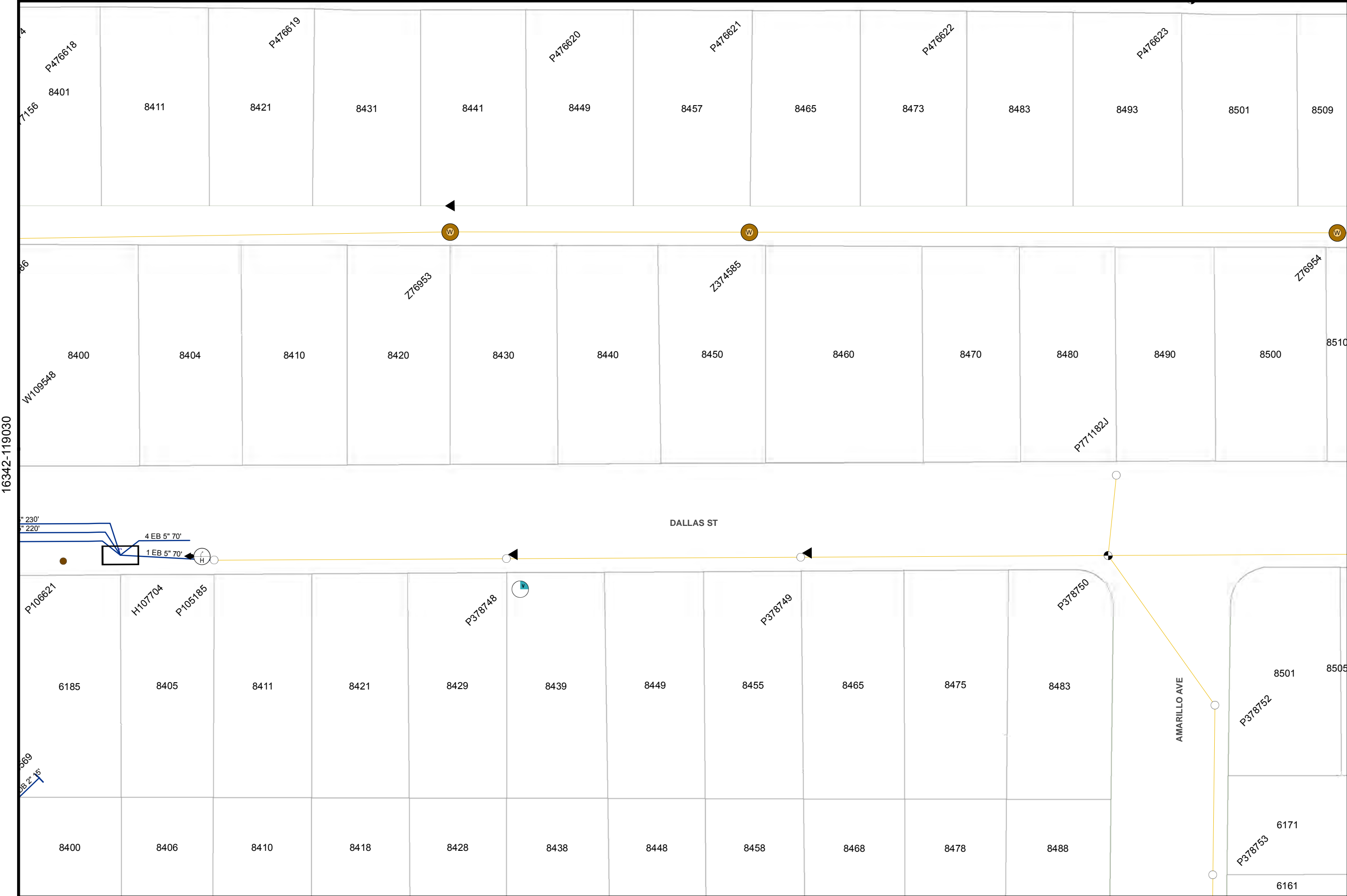
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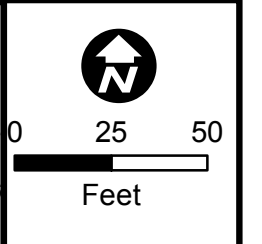
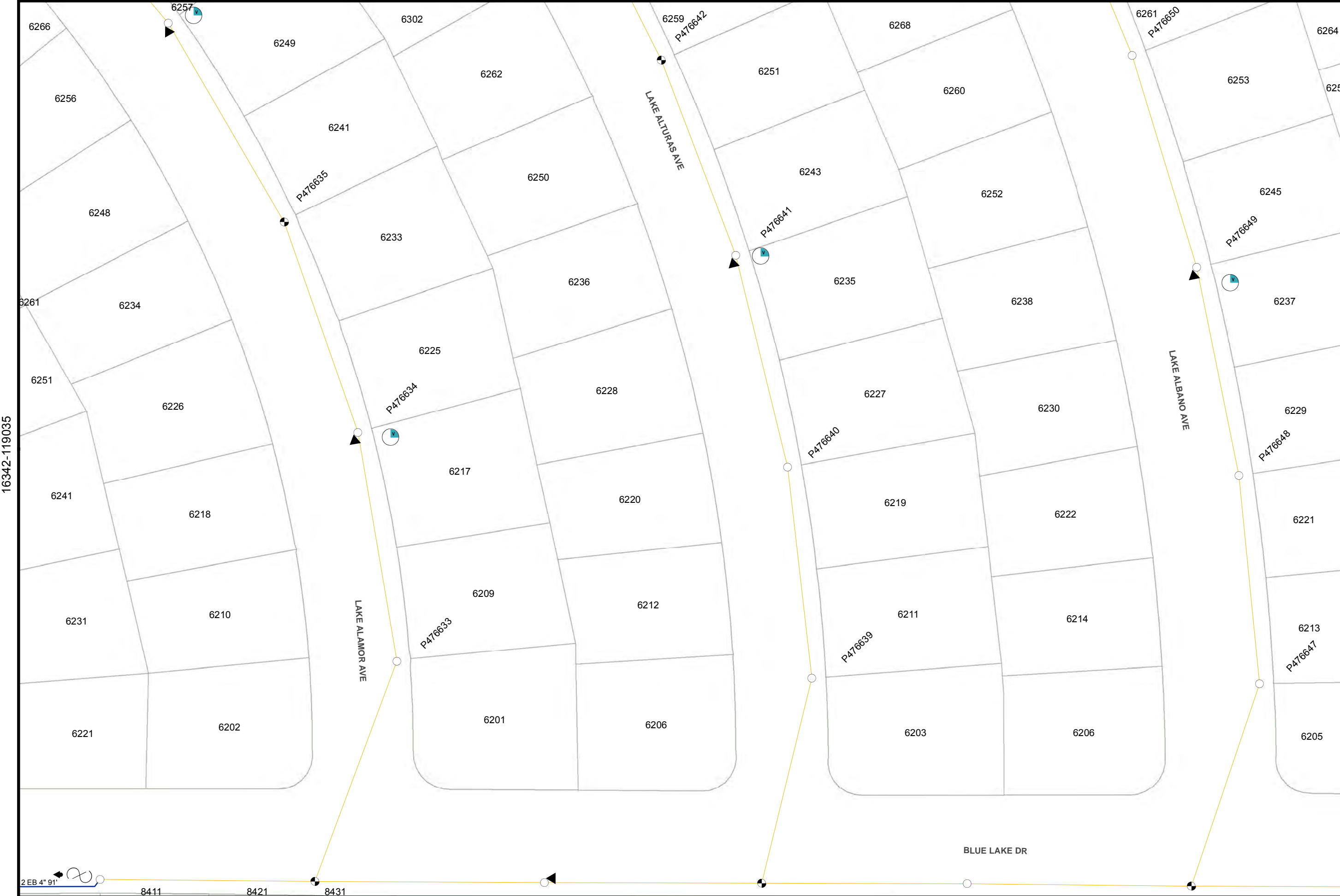
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16357-119030

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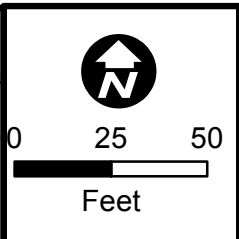
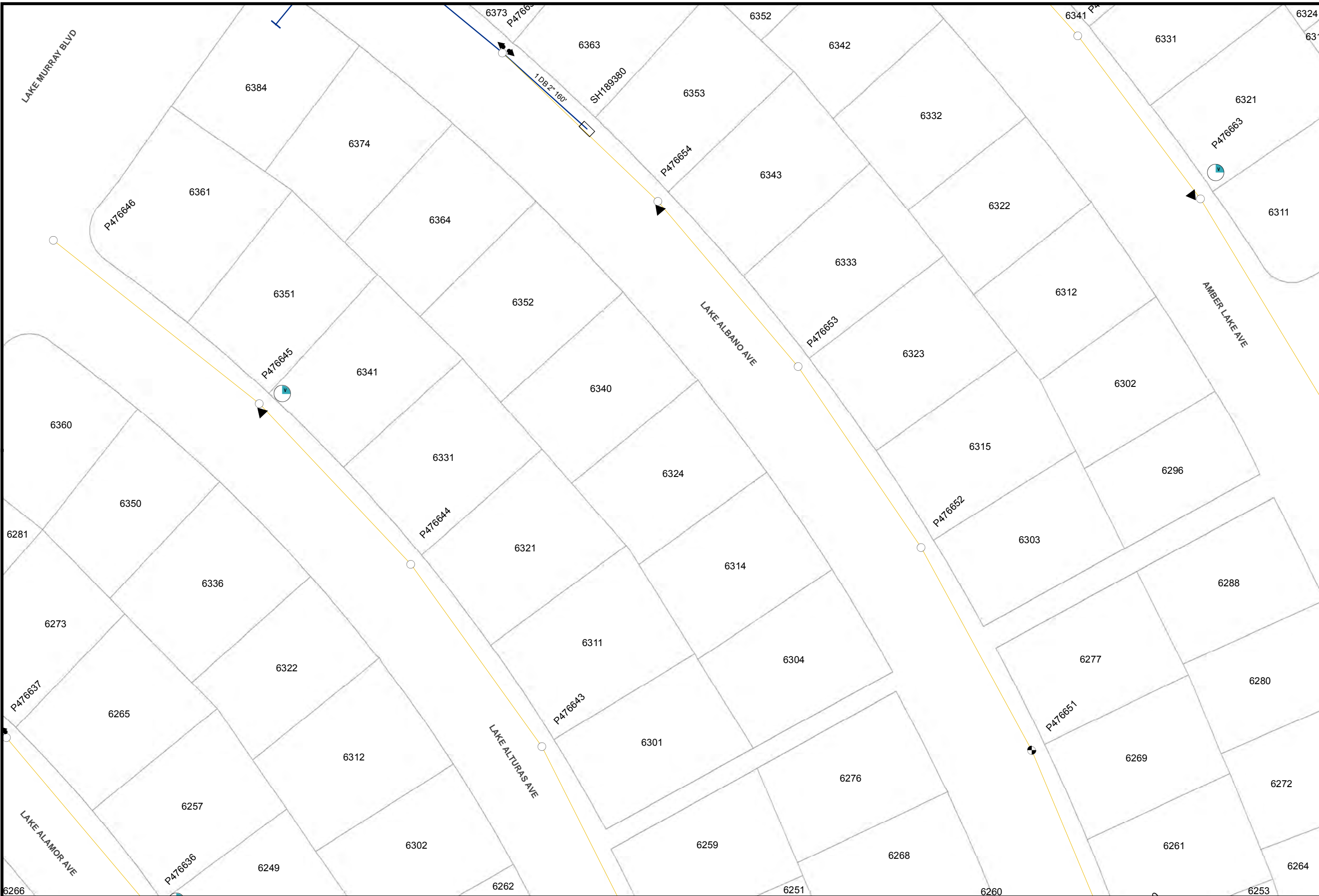
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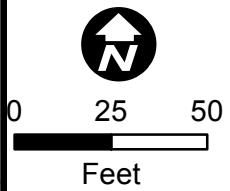
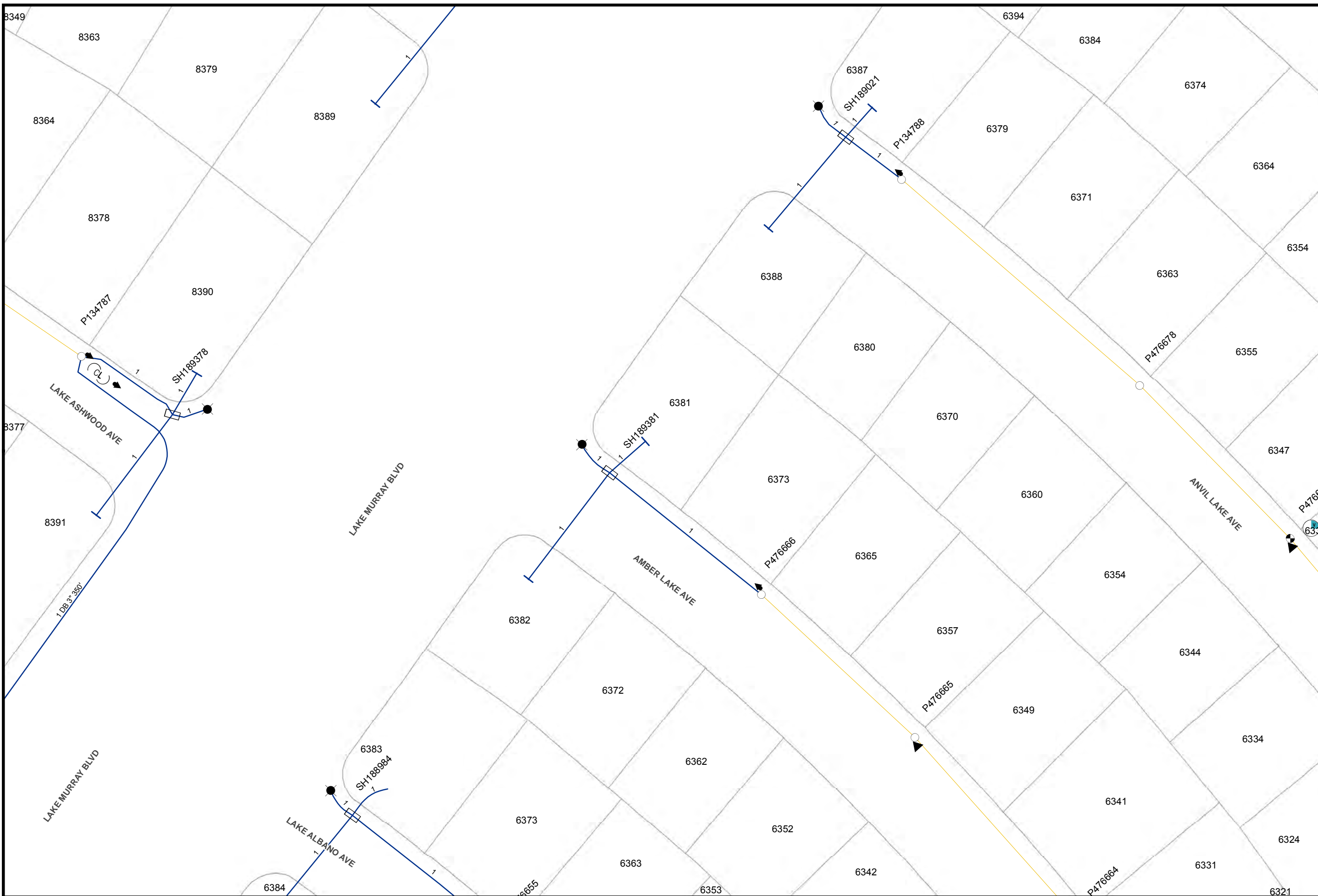


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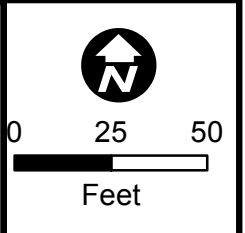


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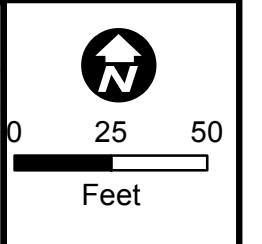
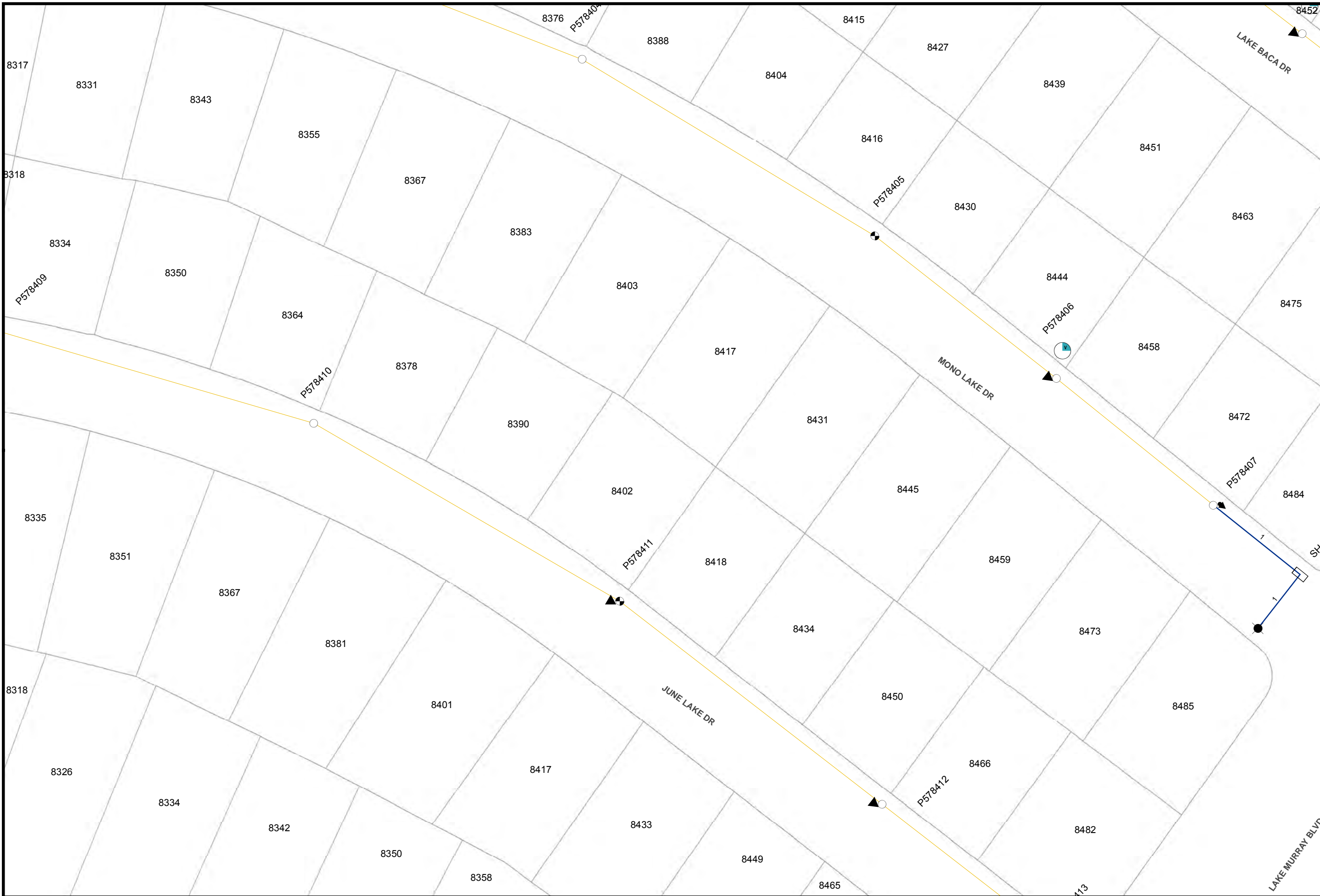


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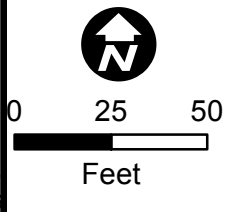


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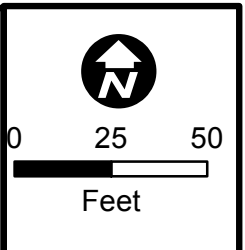


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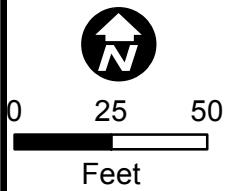
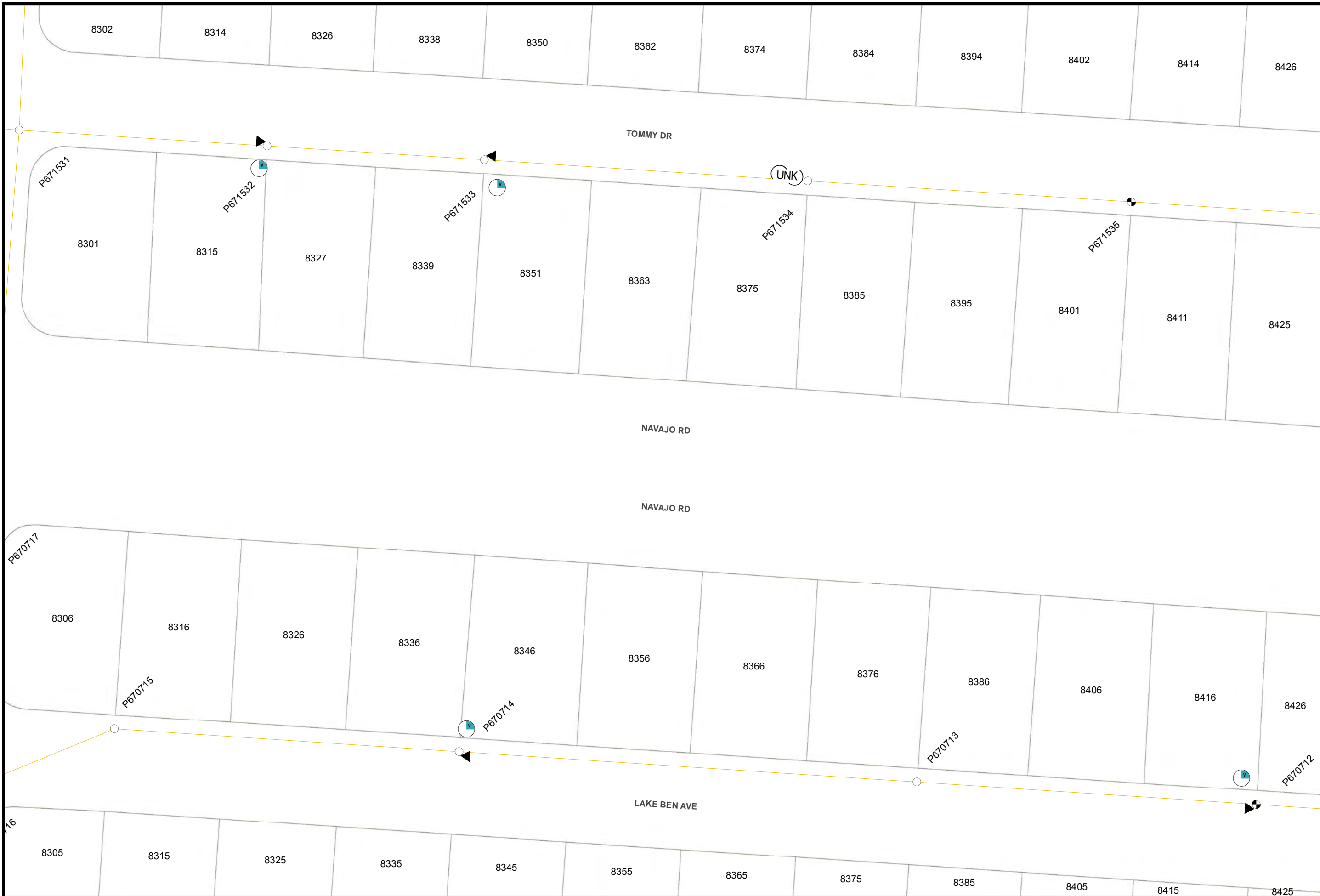
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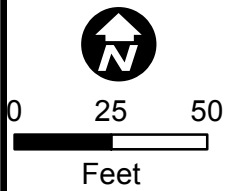
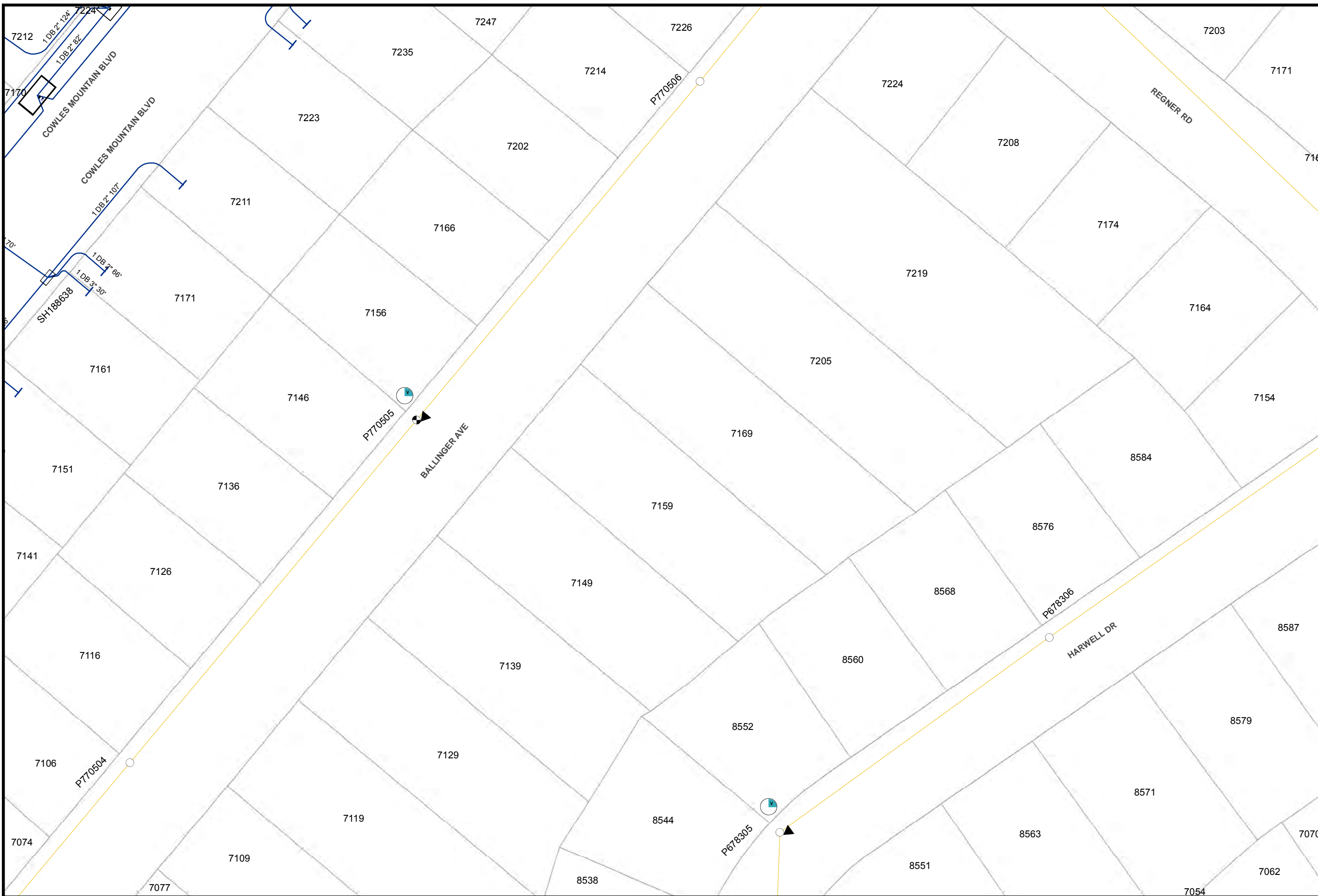
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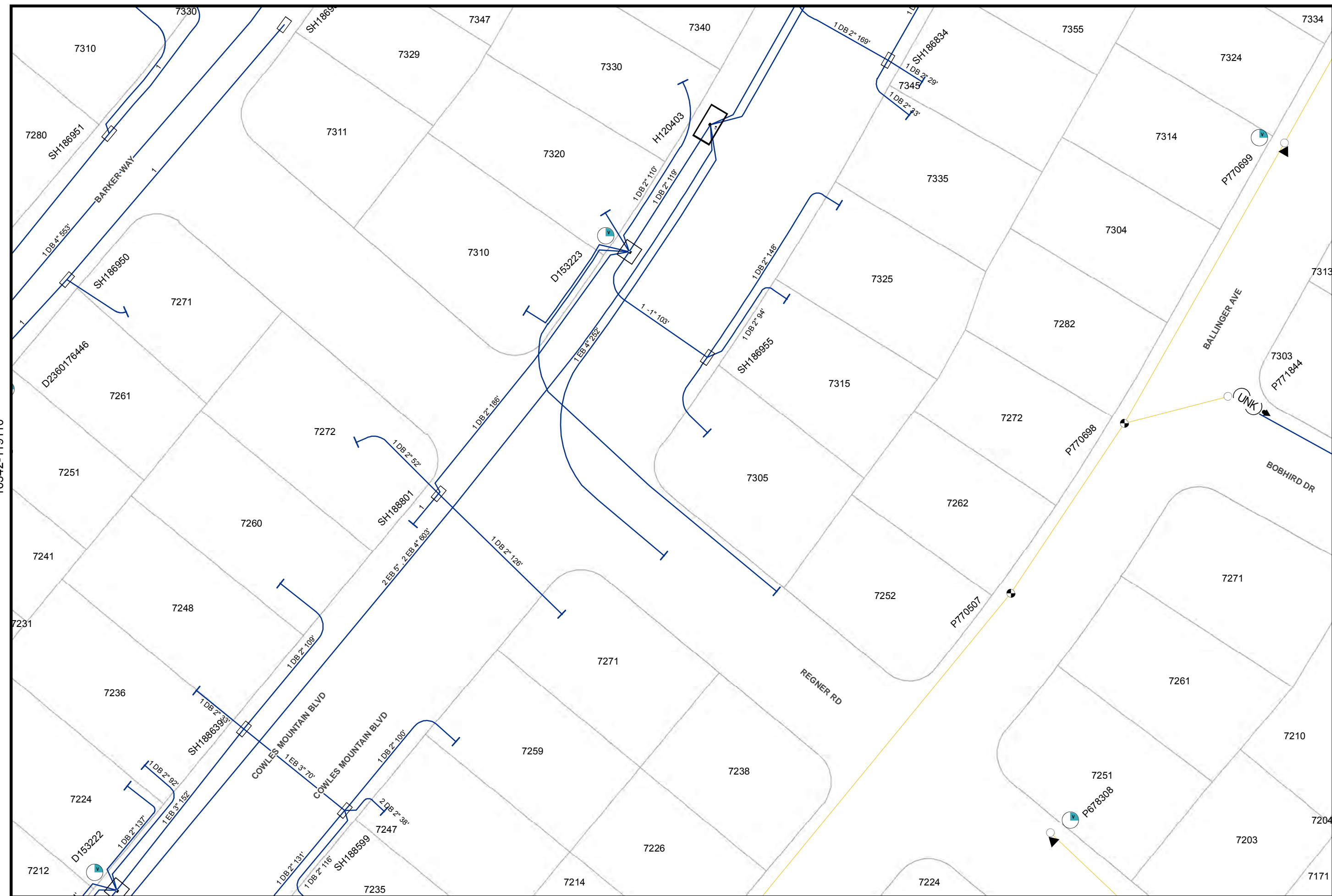
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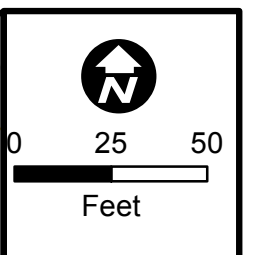
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16342-119110



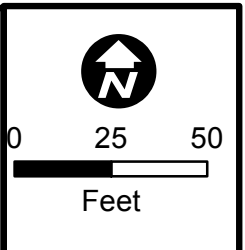
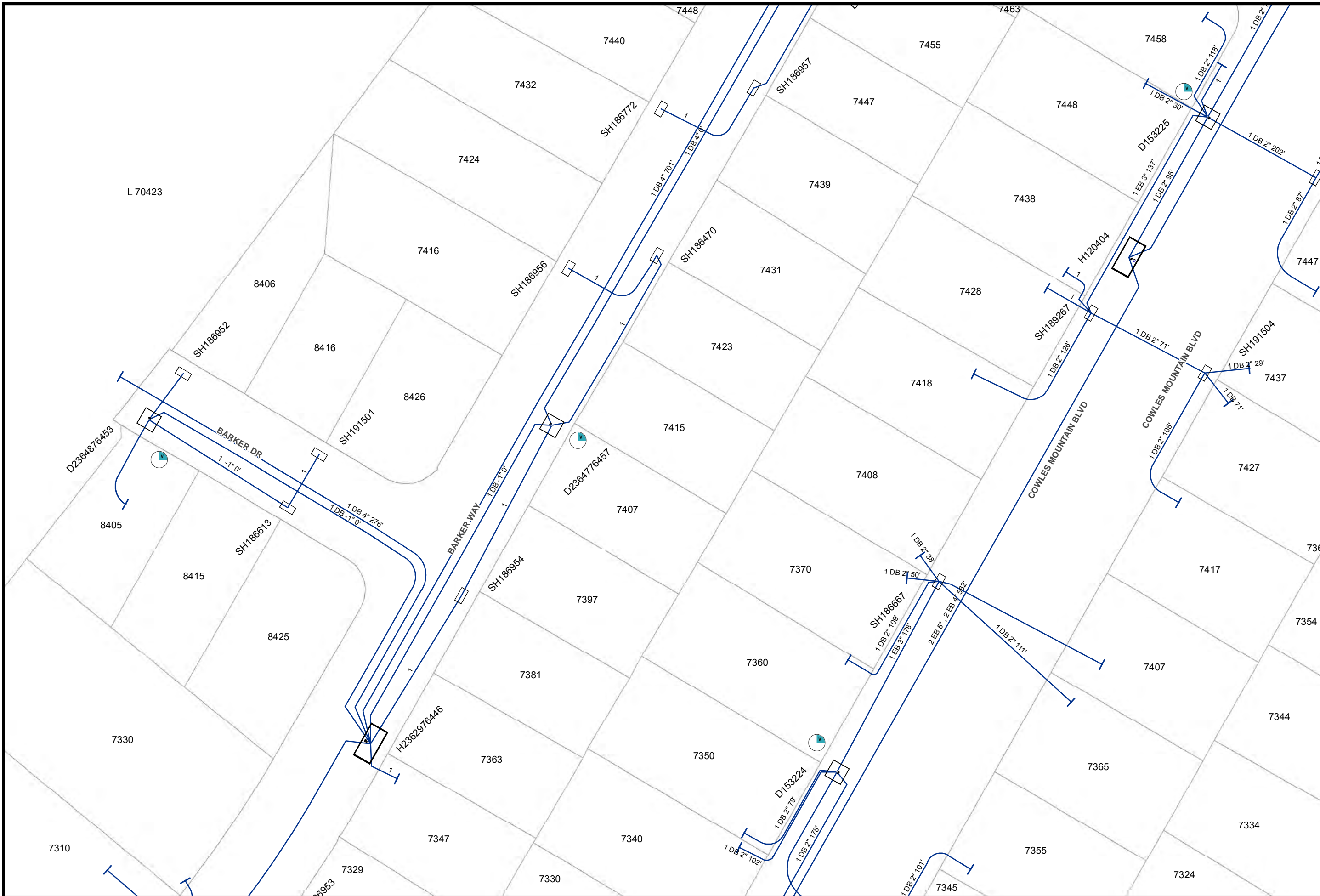
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16357-119110

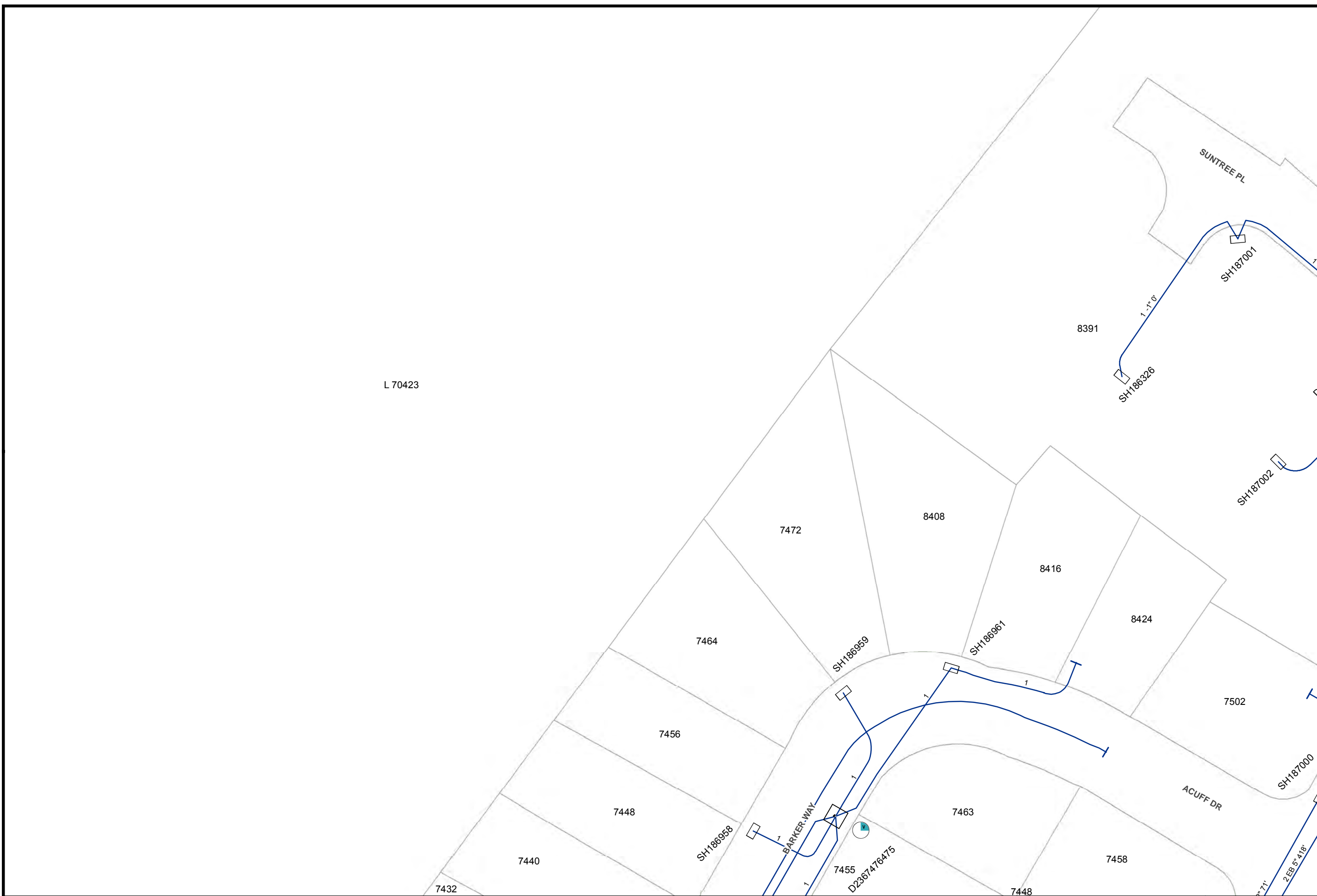
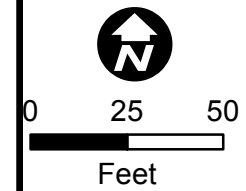
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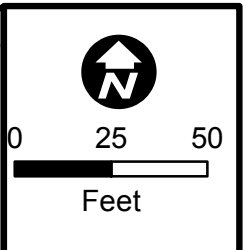
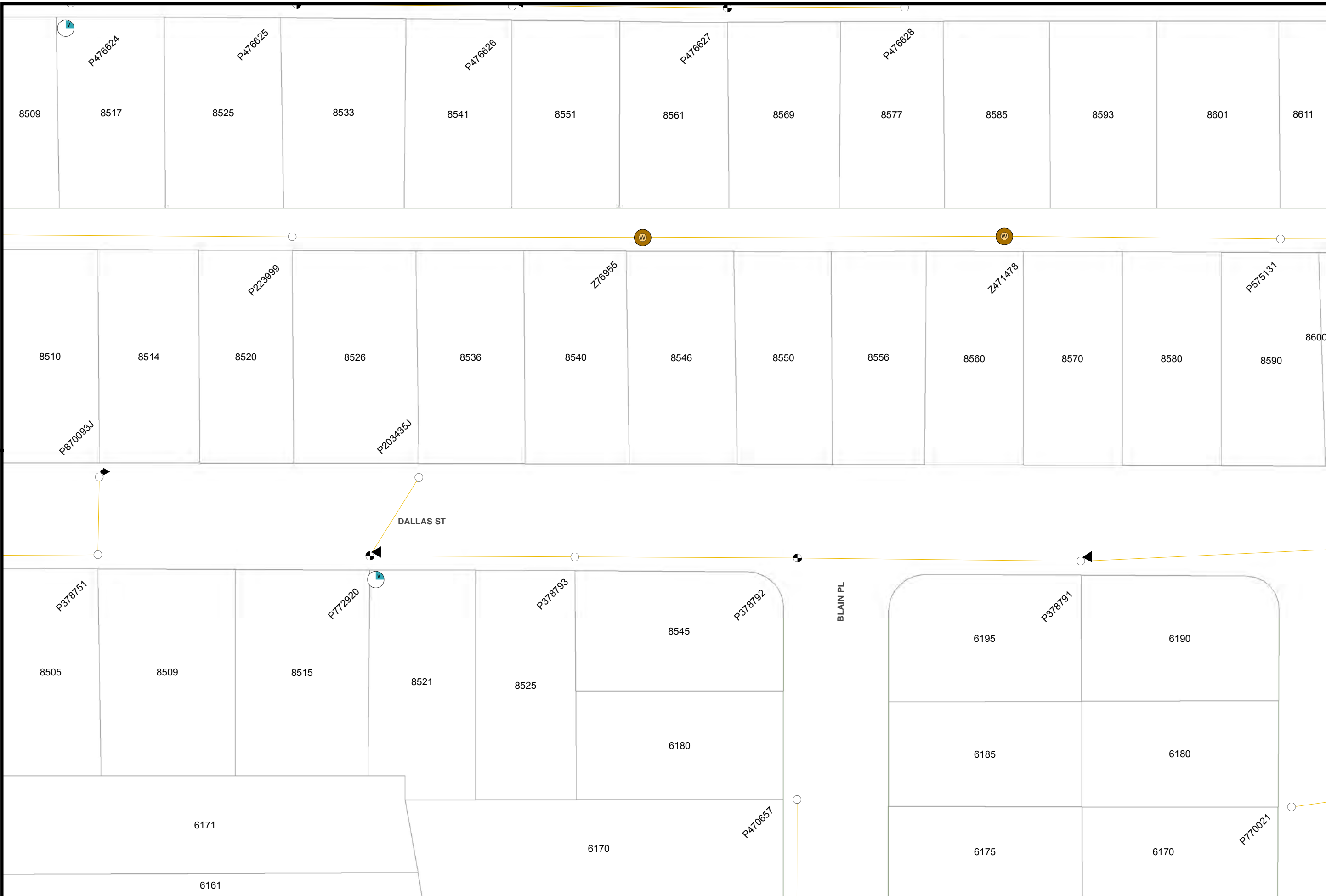
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16342-119120

16357-119120



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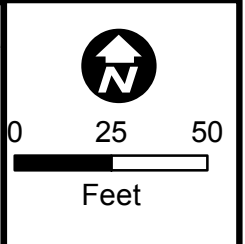
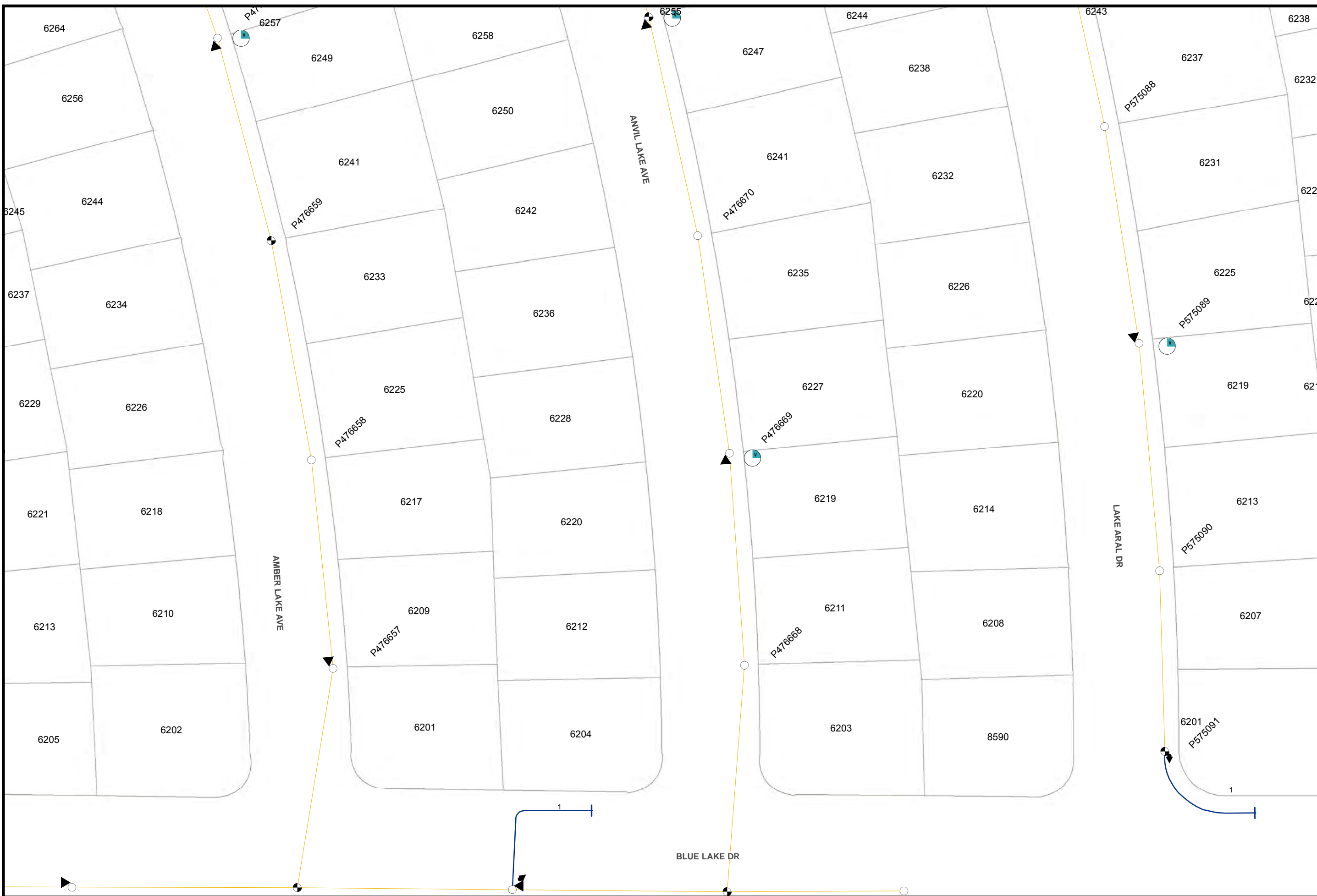
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 Sempra Energy utility

16350-119030

16365-119030

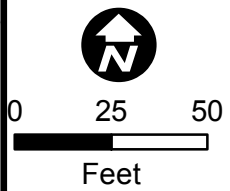
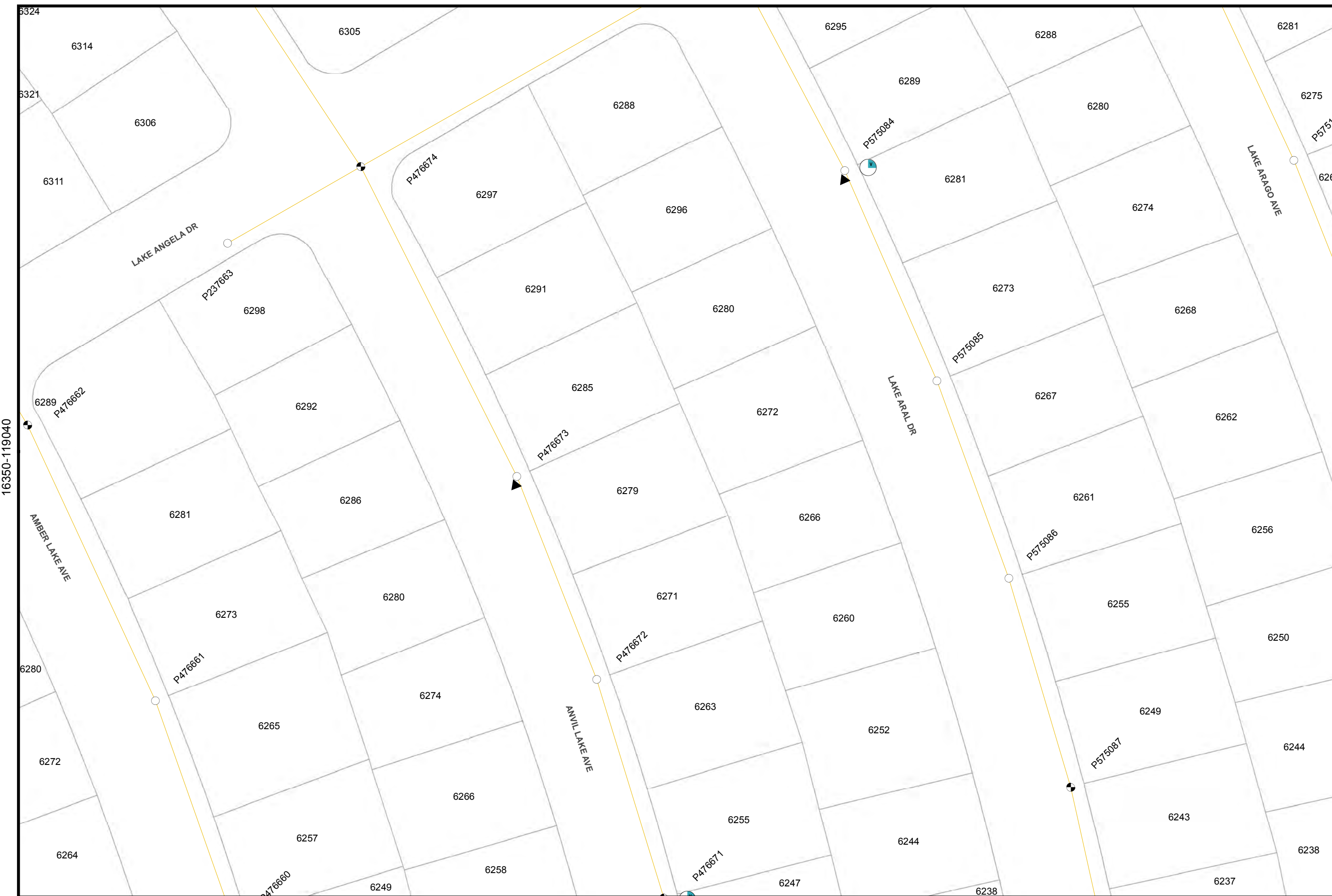
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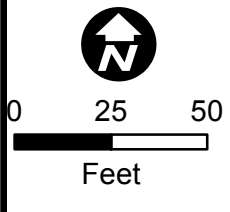
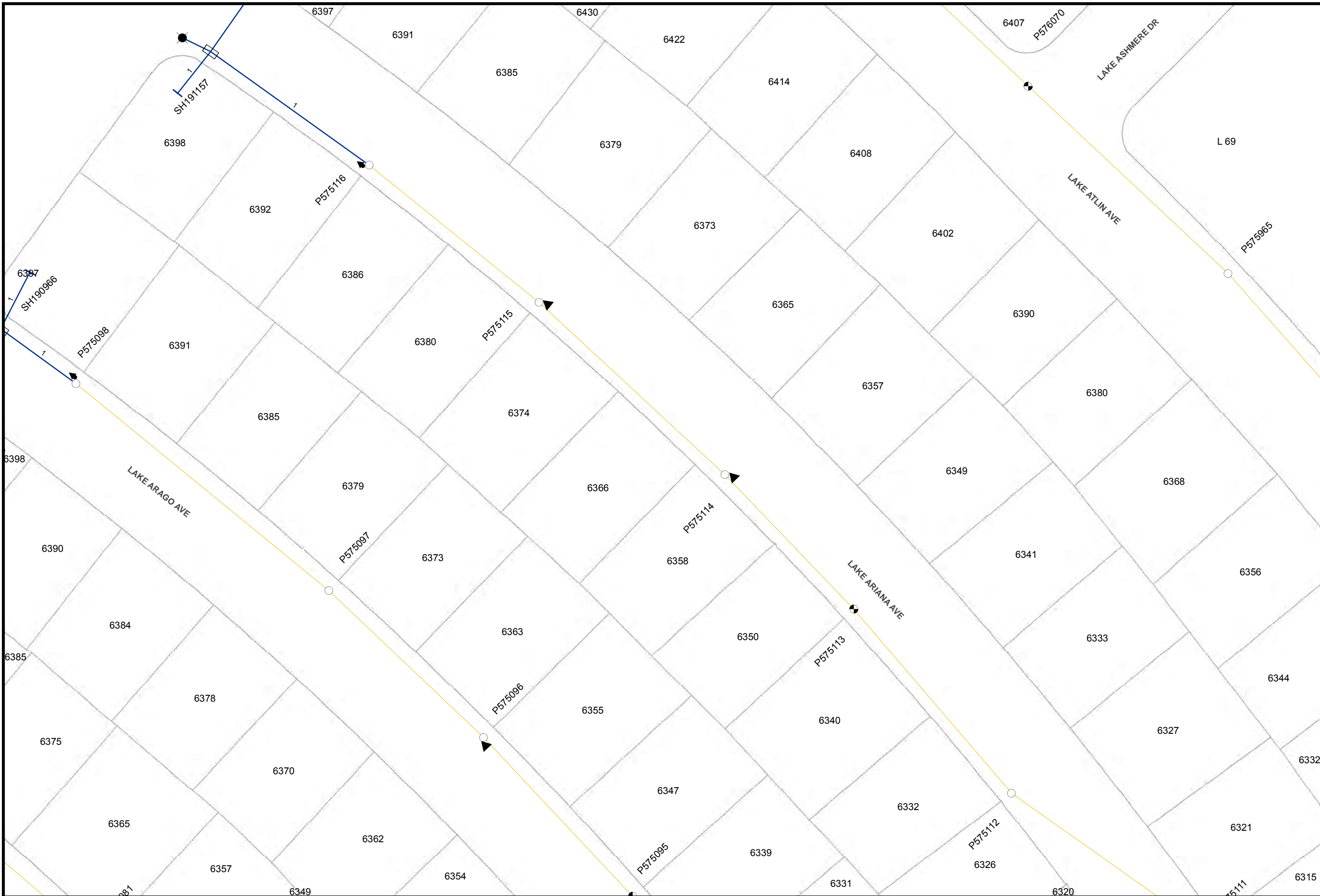
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16350-119050

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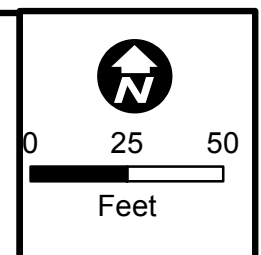


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16350-119060



0 25 50  
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Map Number: 16357-119060

Map Type: **Conductor Path Map**

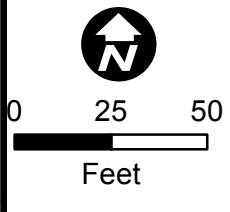
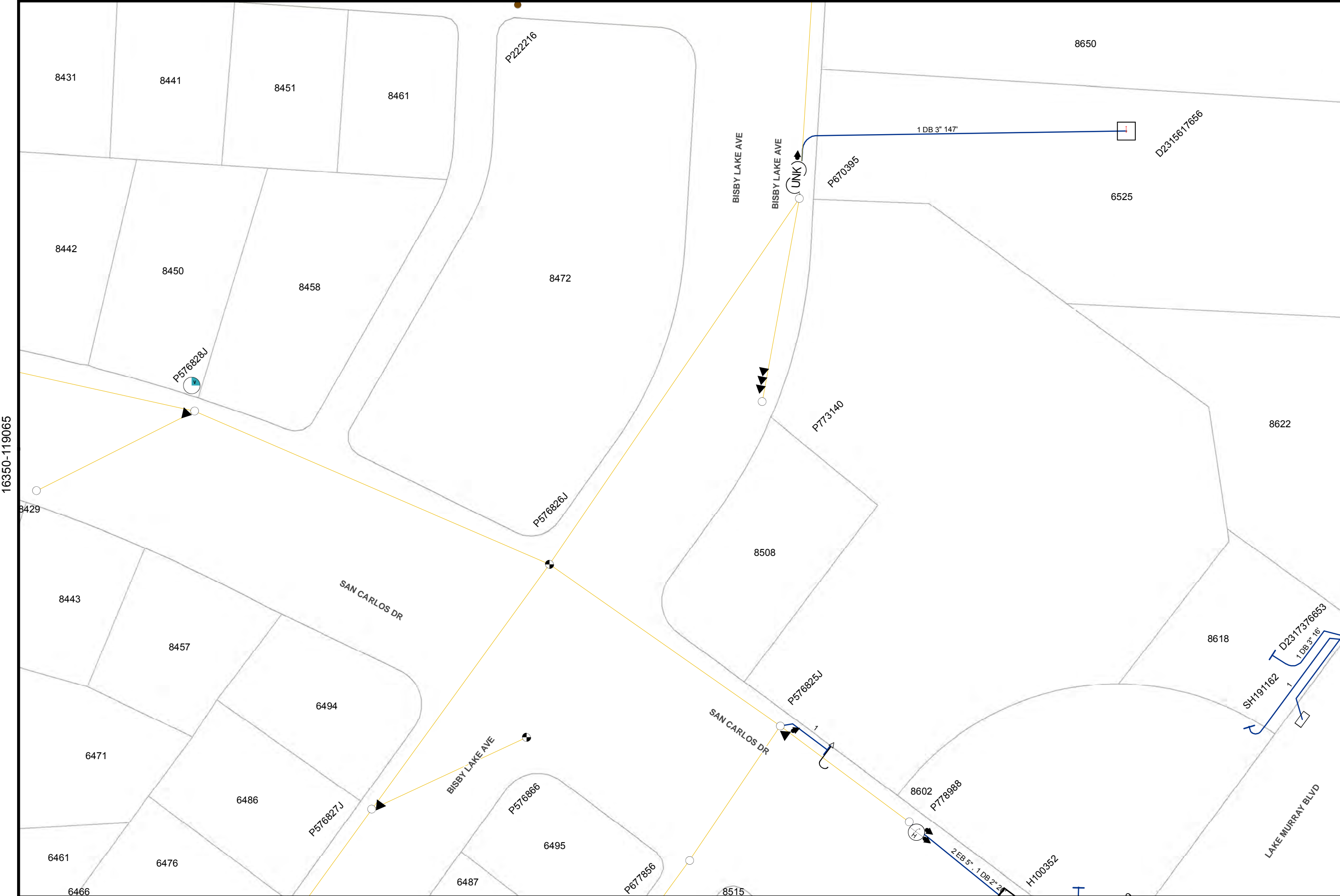
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16365-119060



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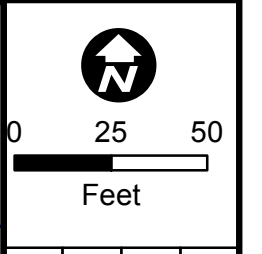
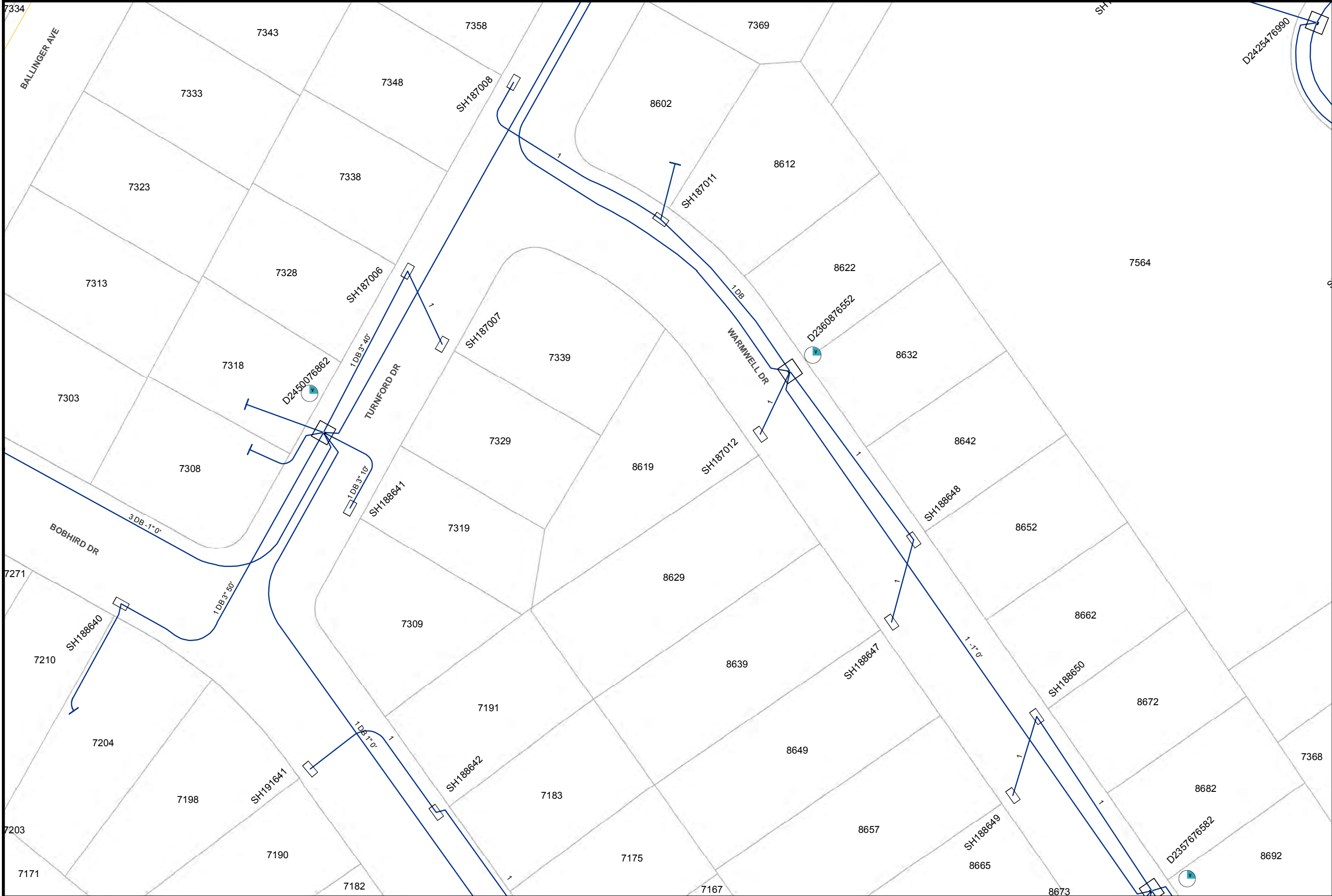
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16350-119065

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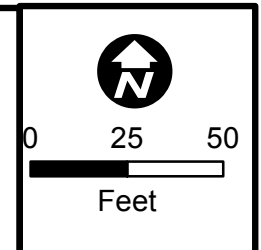
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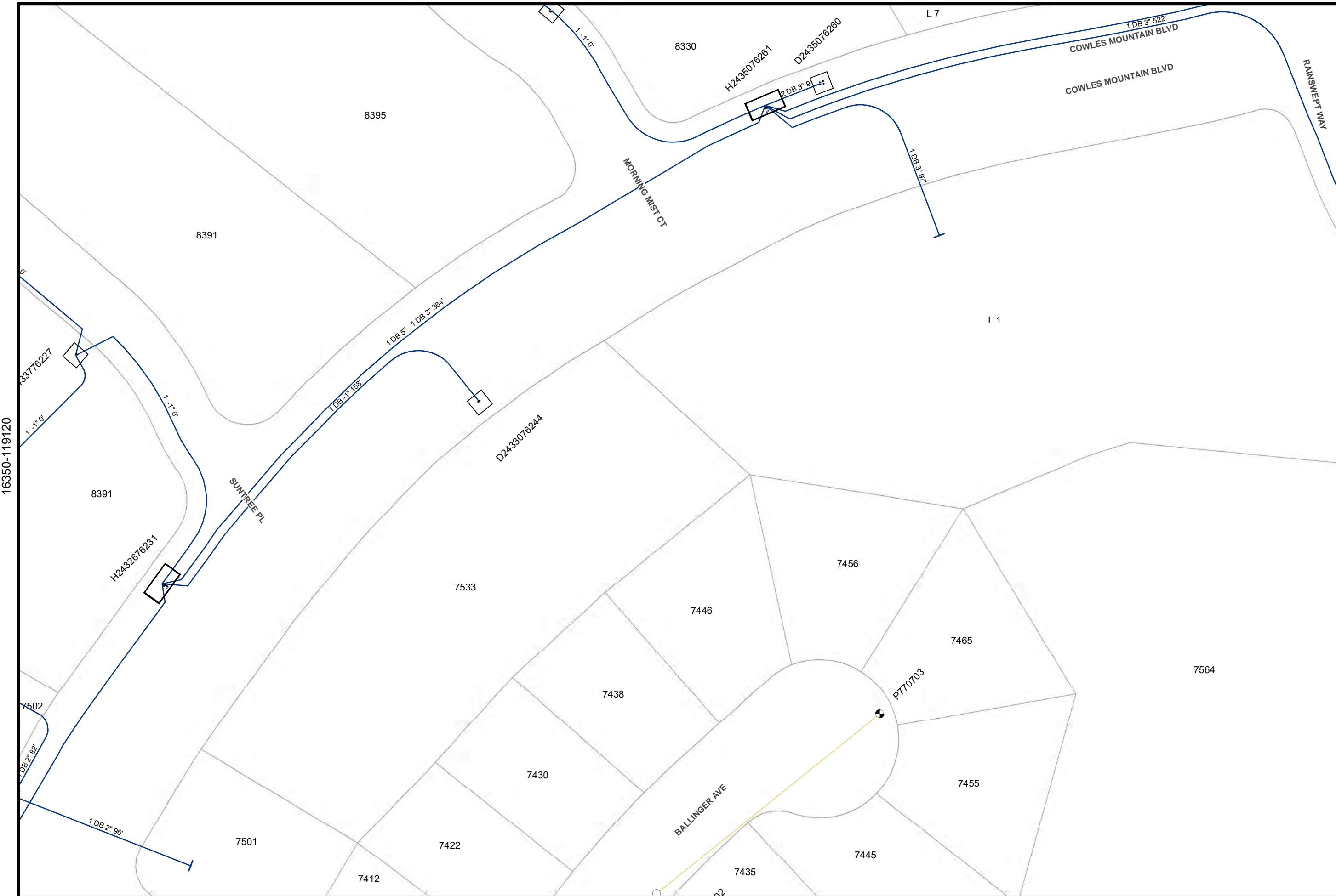


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16350-119120

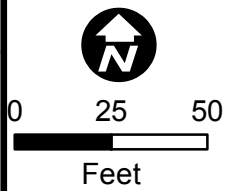
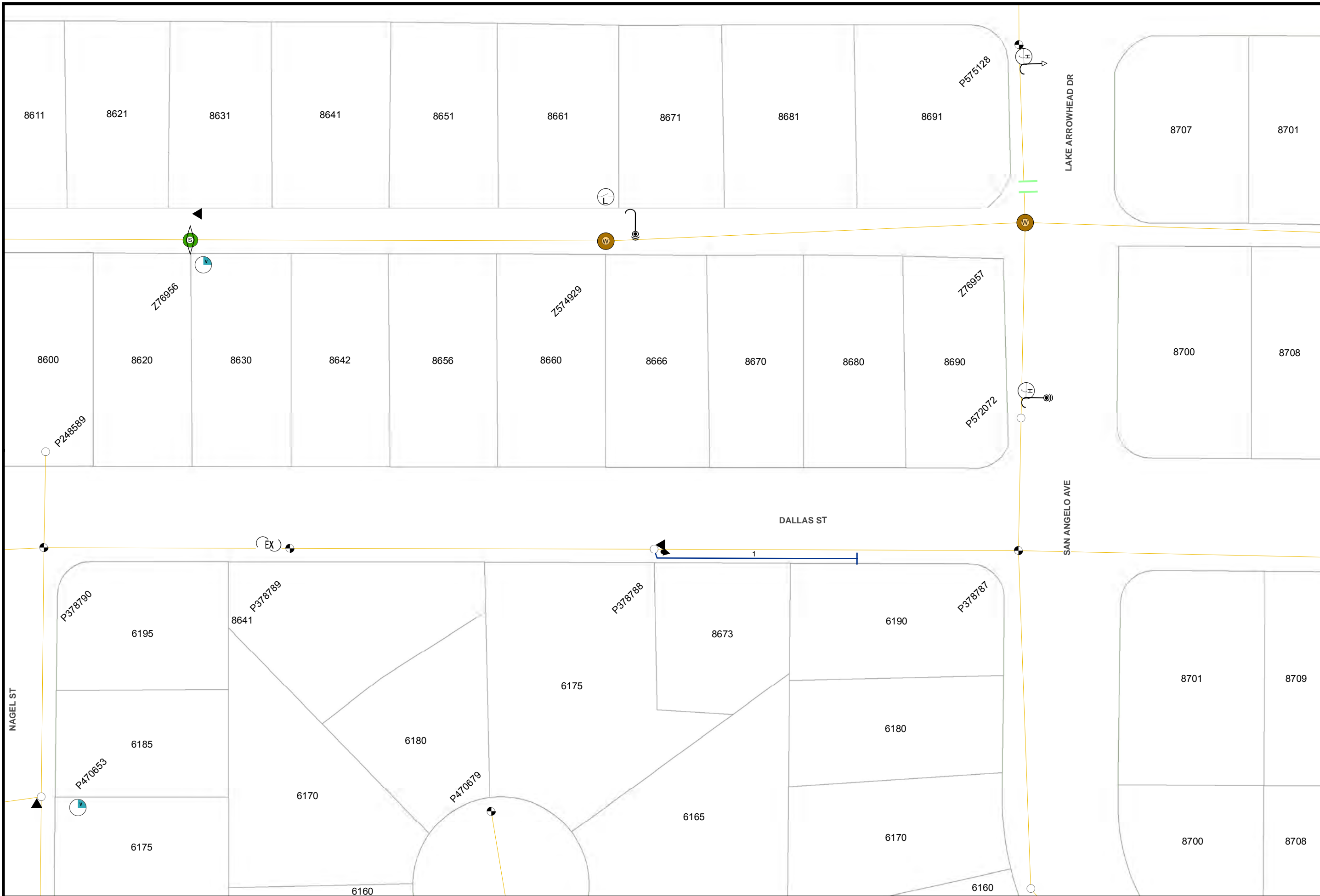


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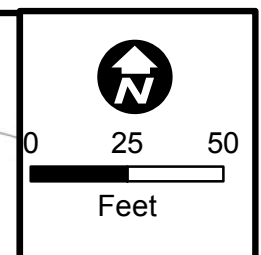
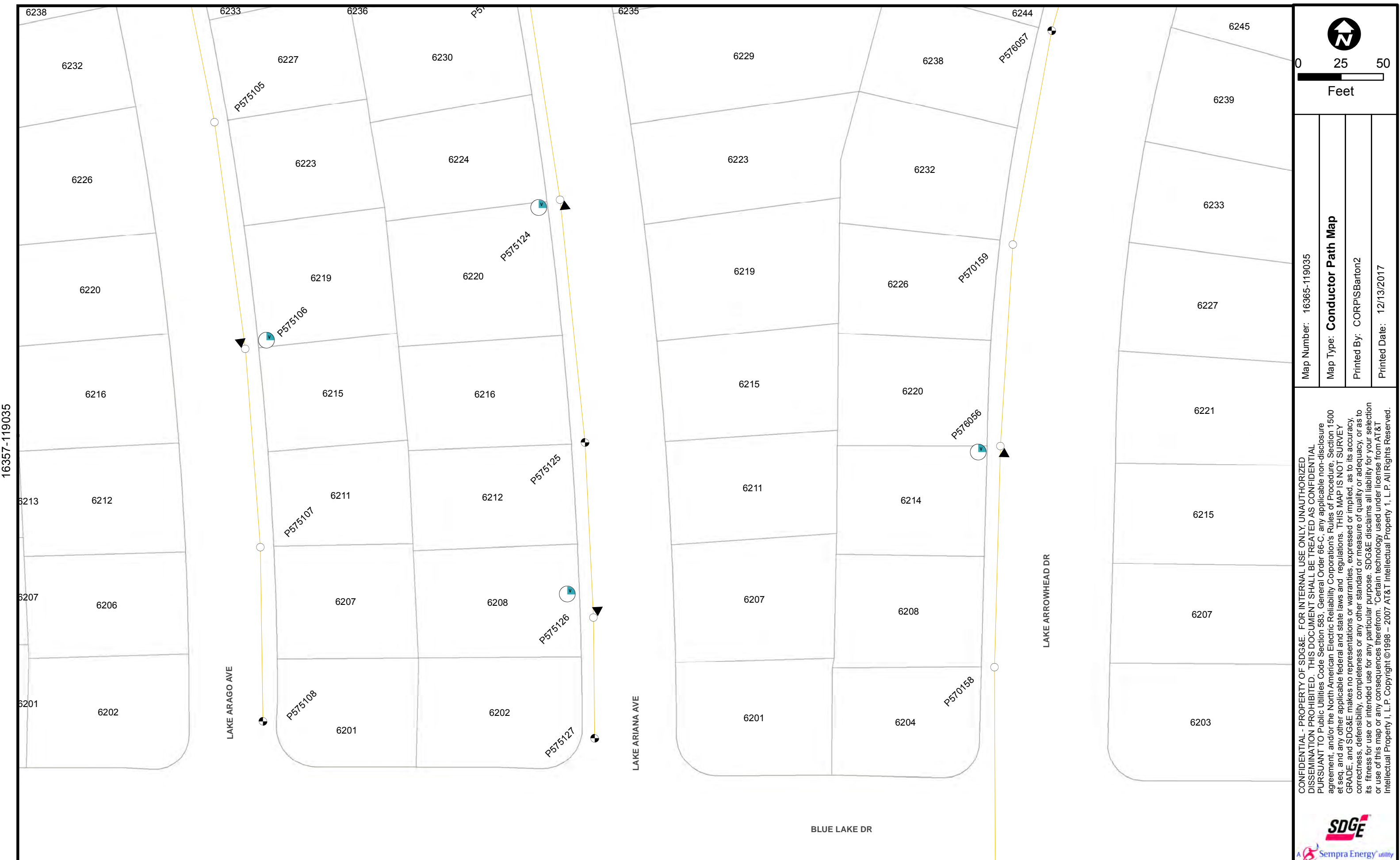


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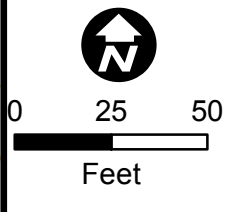
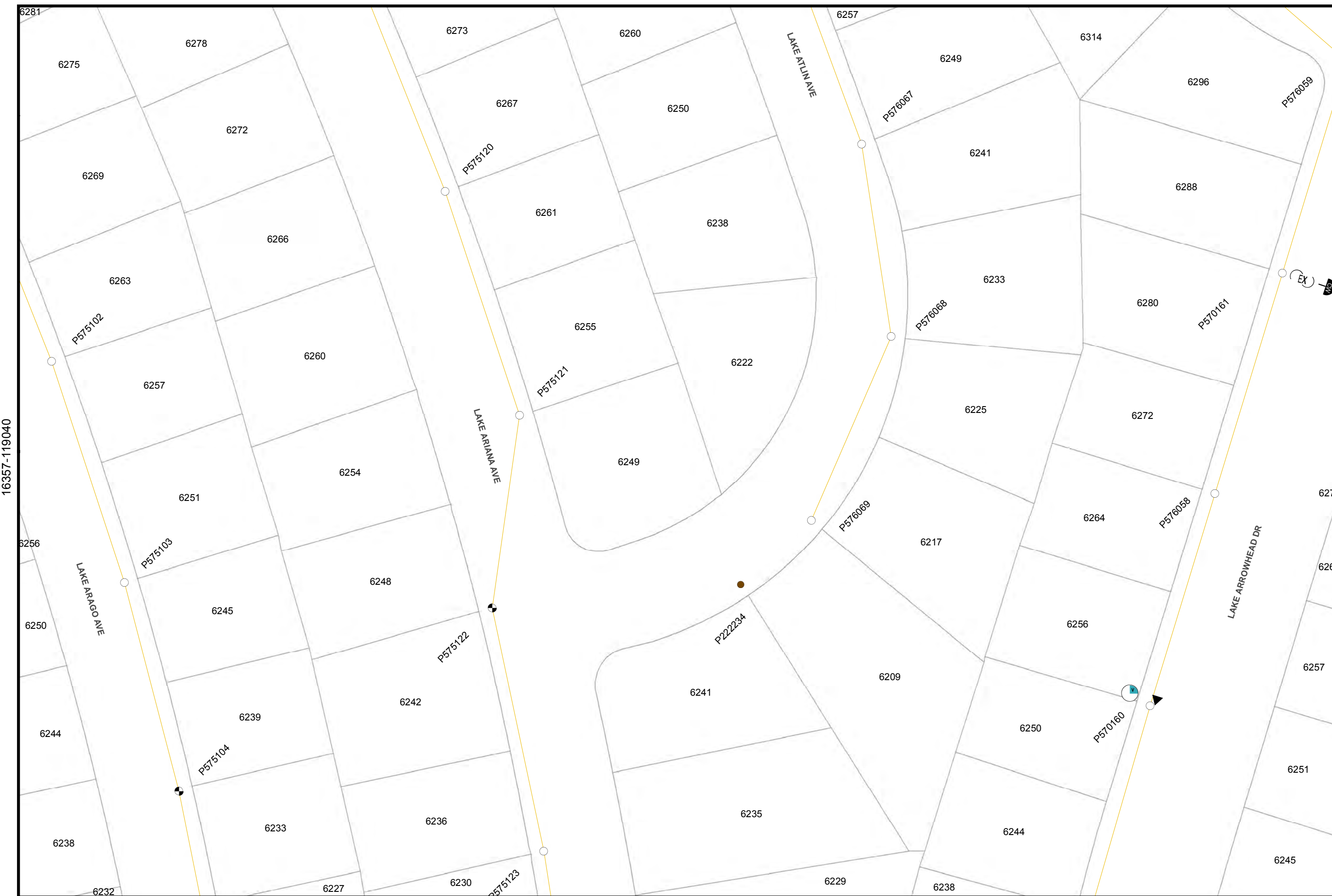
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 A Sempra Energy utility

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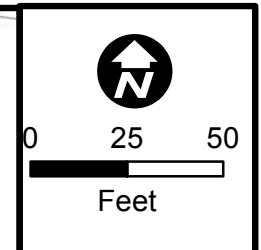
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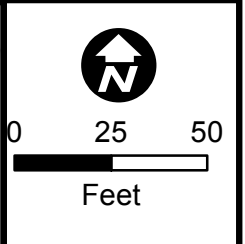
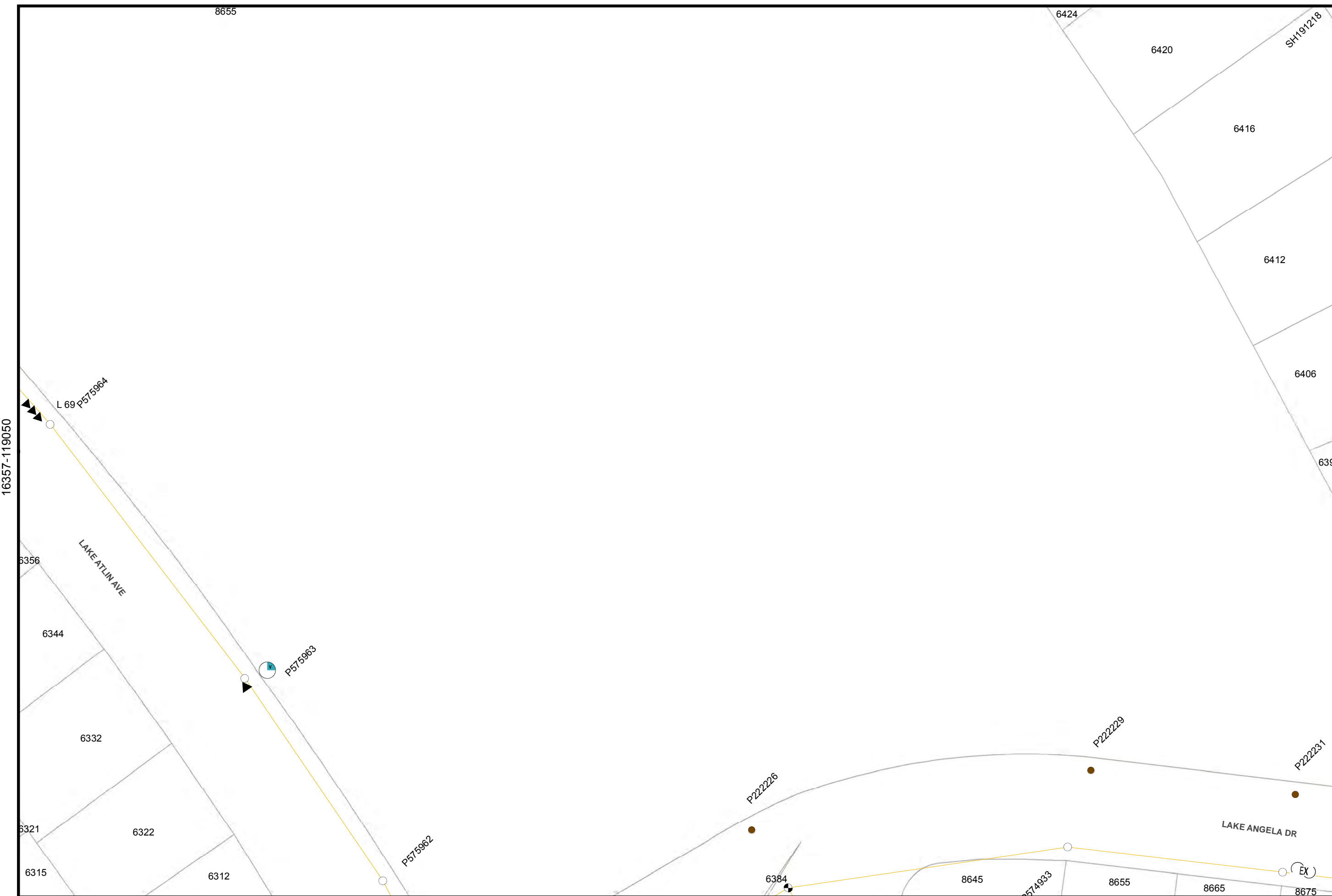
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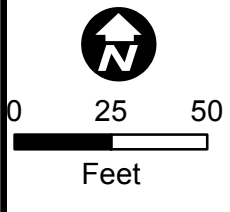
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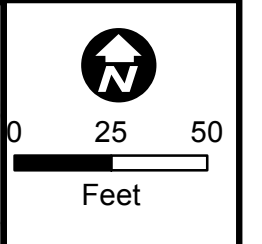
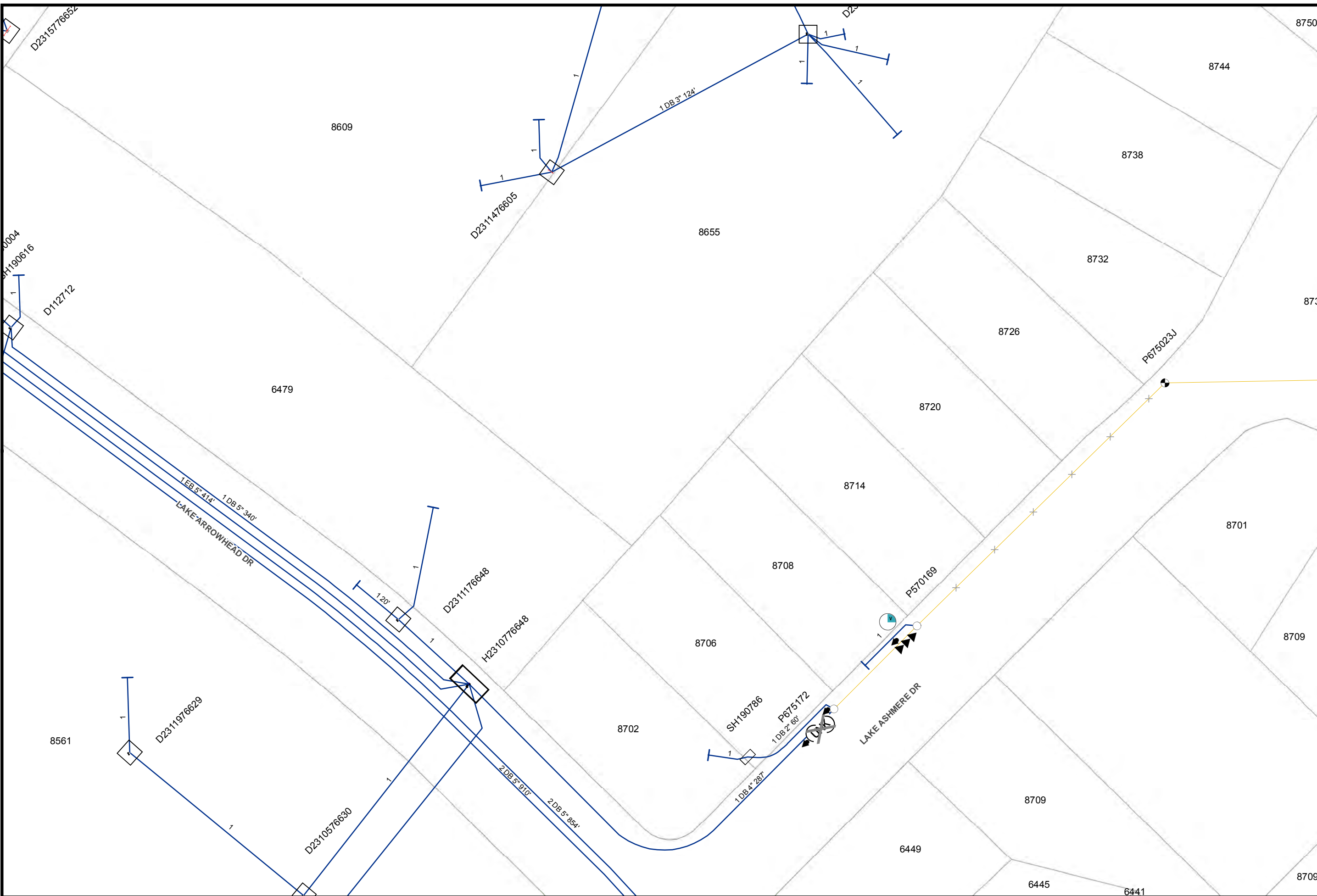
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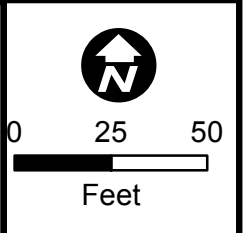
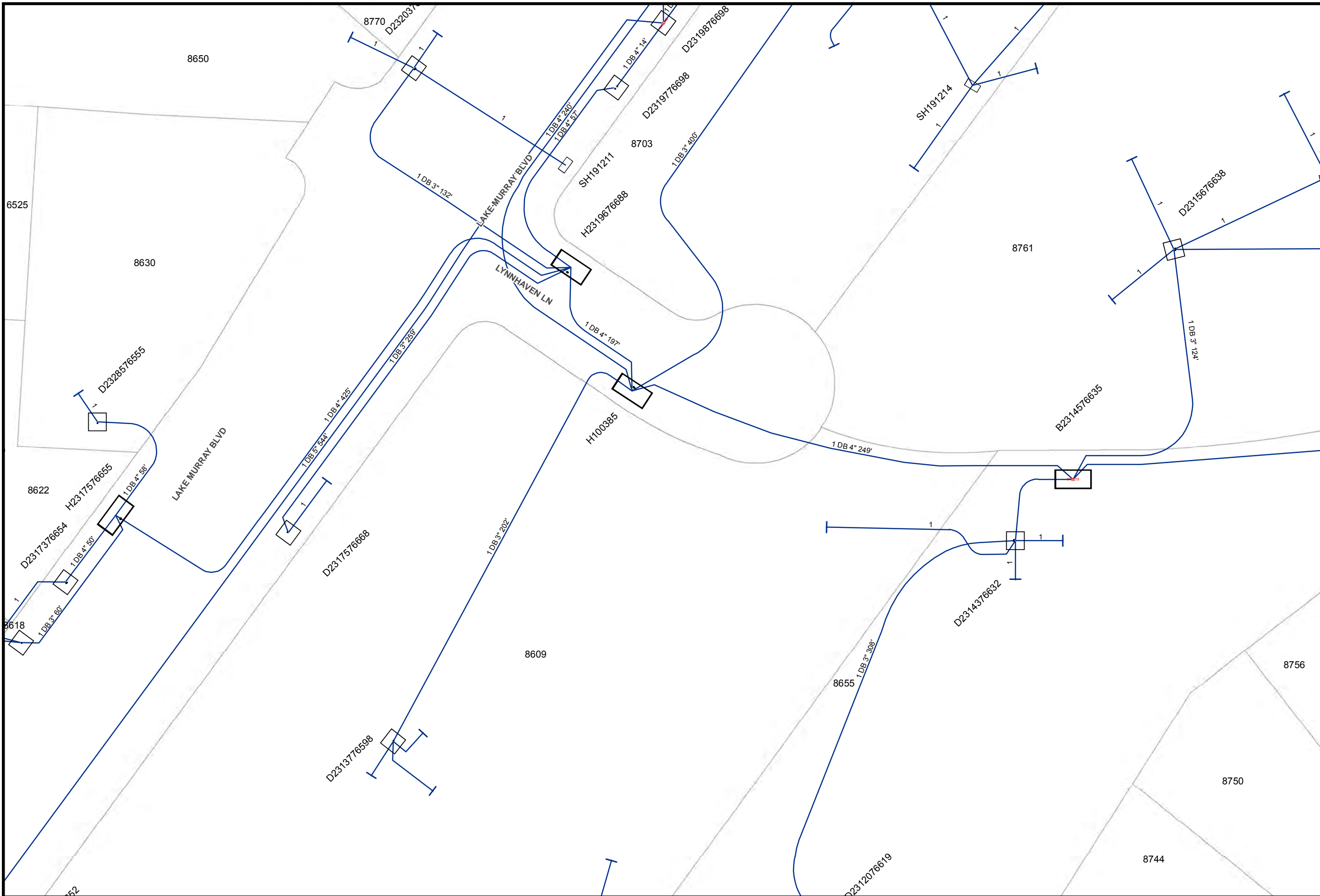


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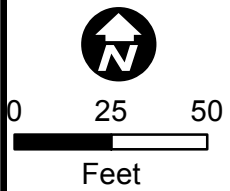
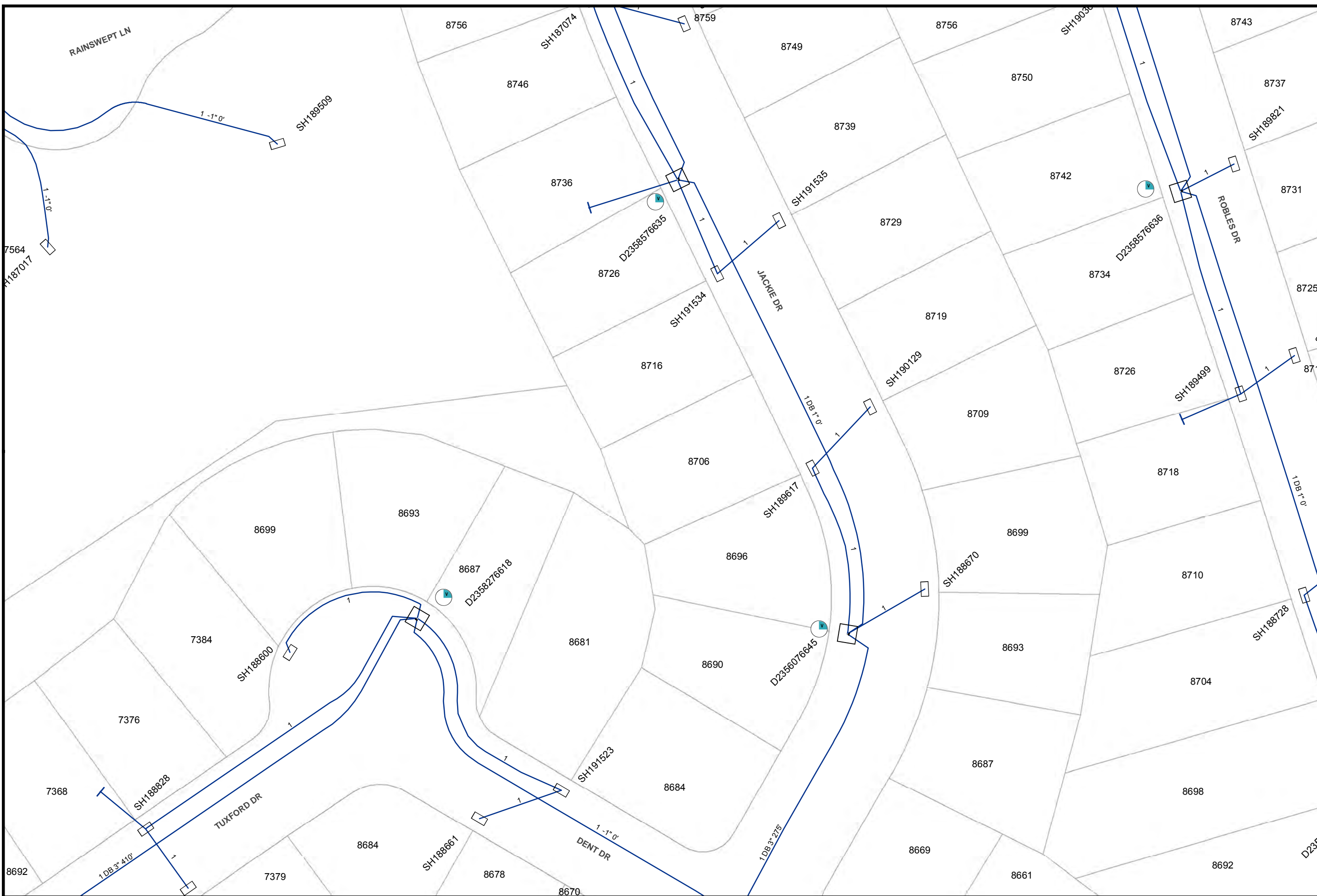
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16372-119065



16357-119110

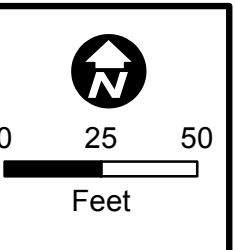
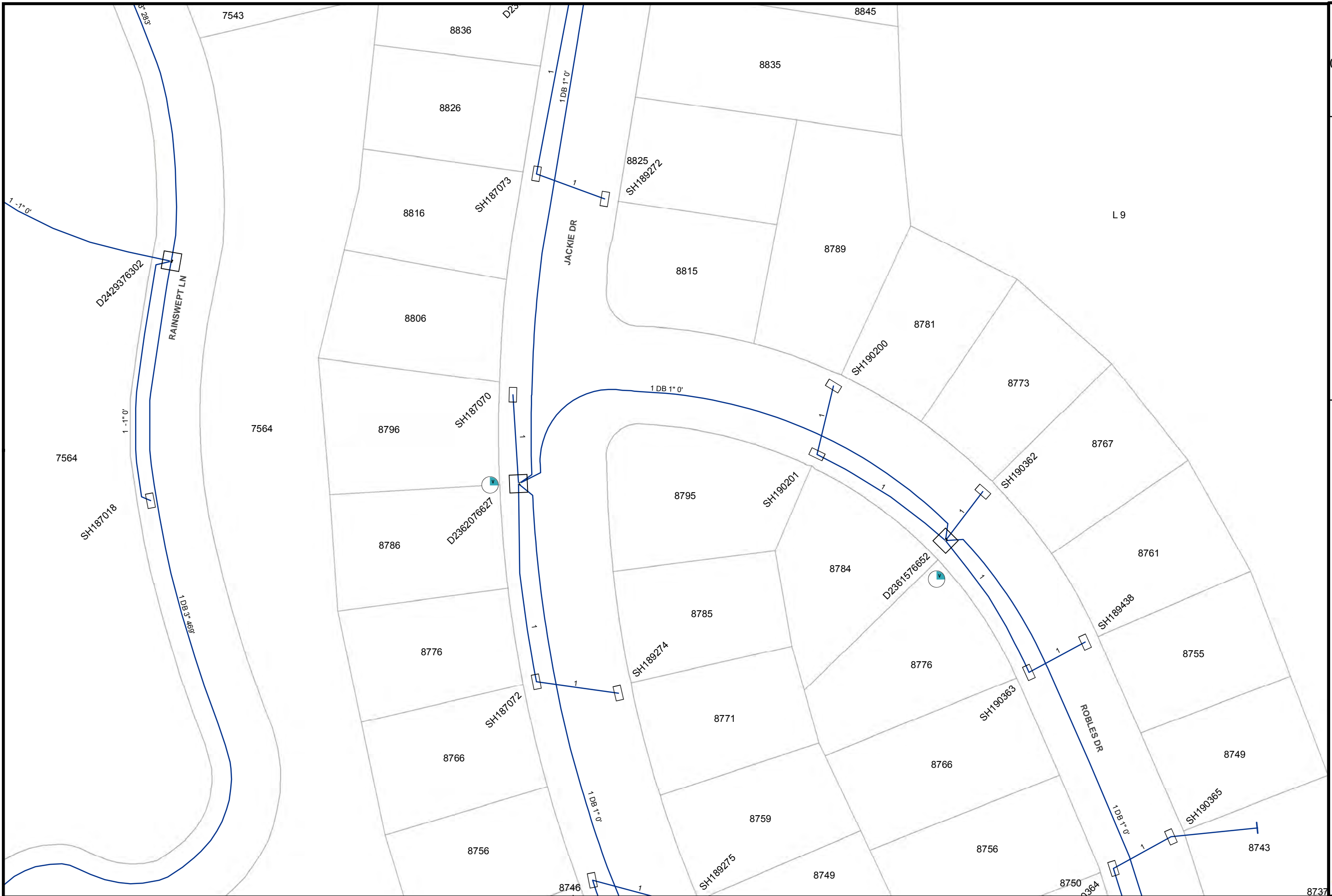
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Map Type: <b>Conductor Path Map</b>
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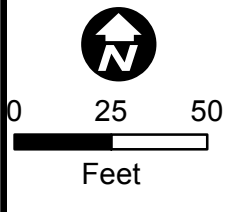
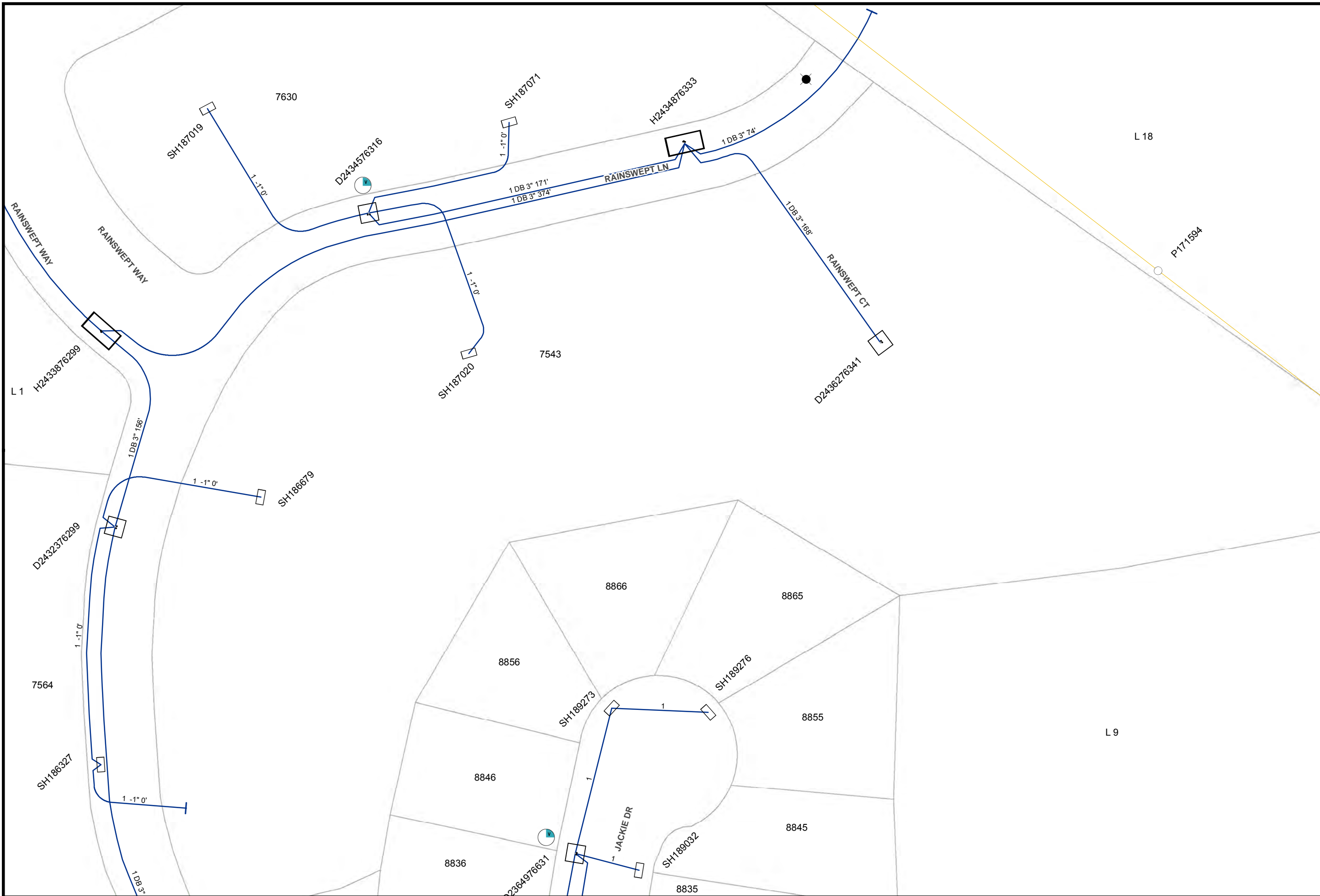
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16357-119115

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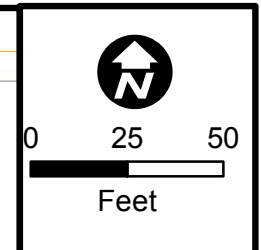
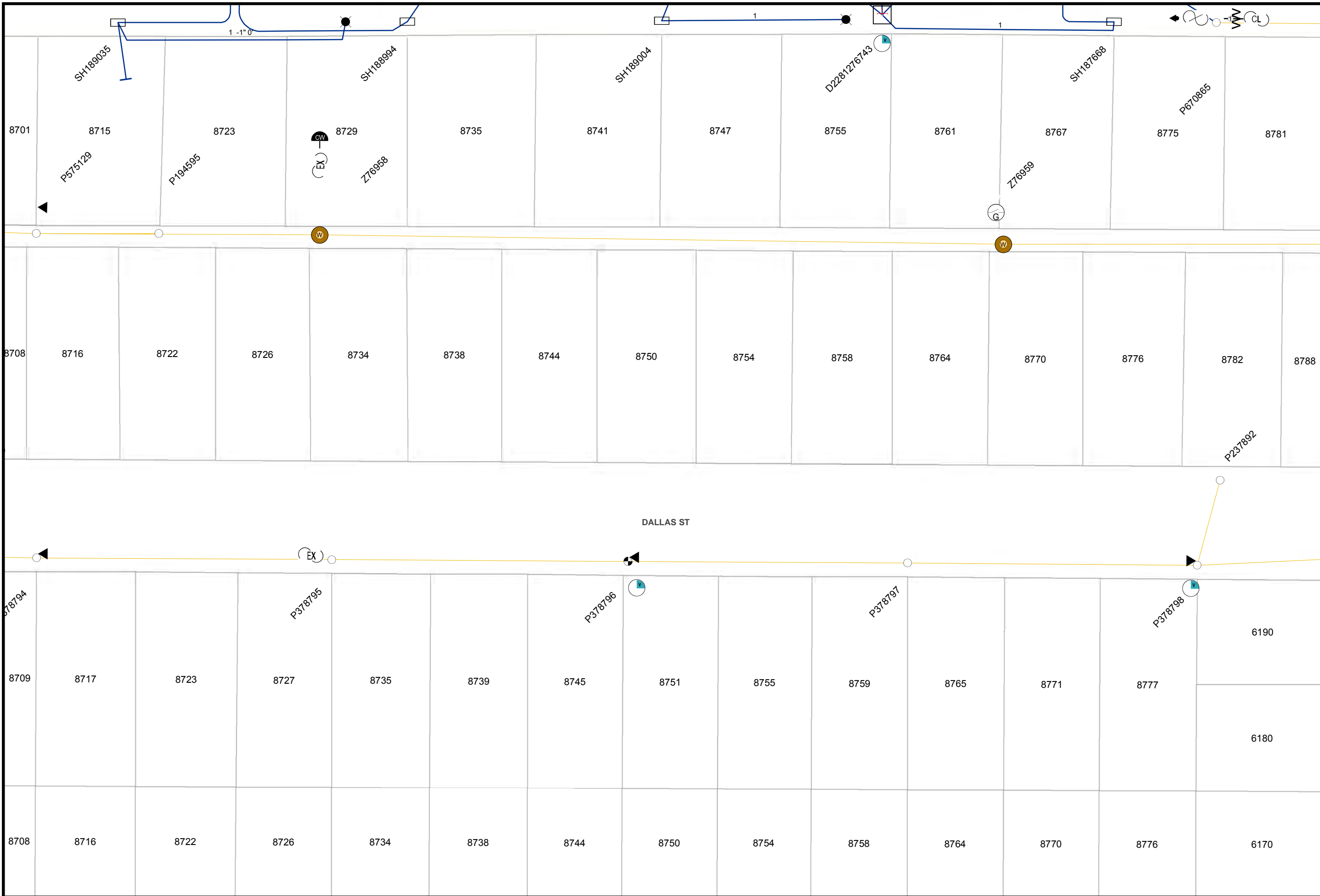
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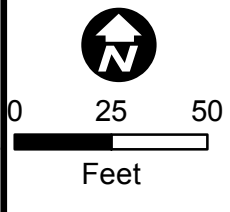


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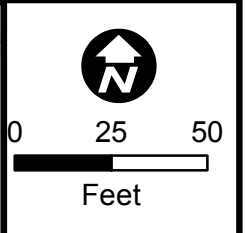
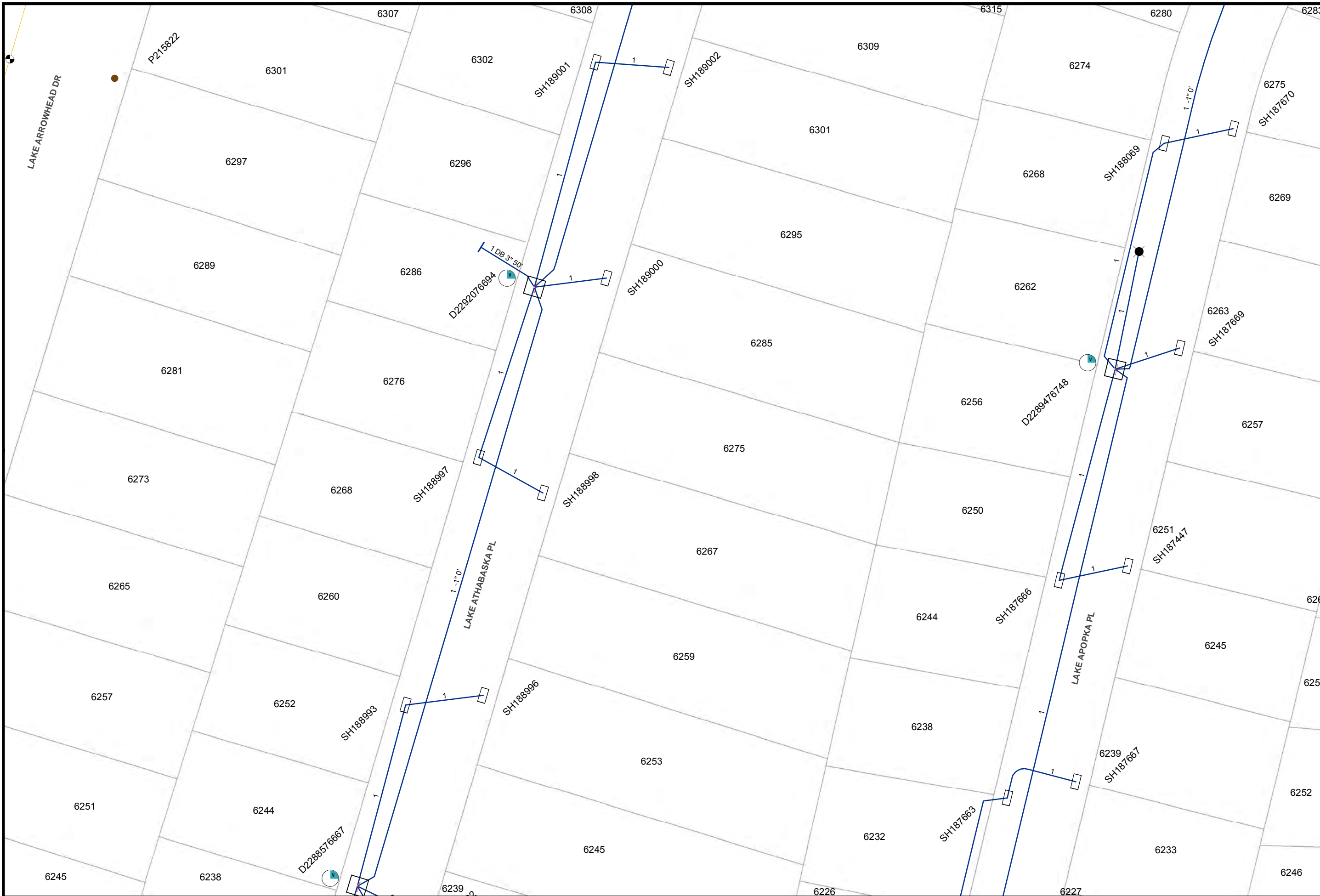


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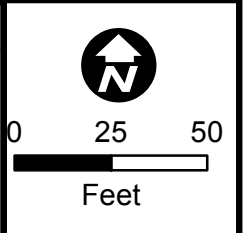


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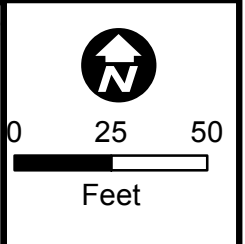
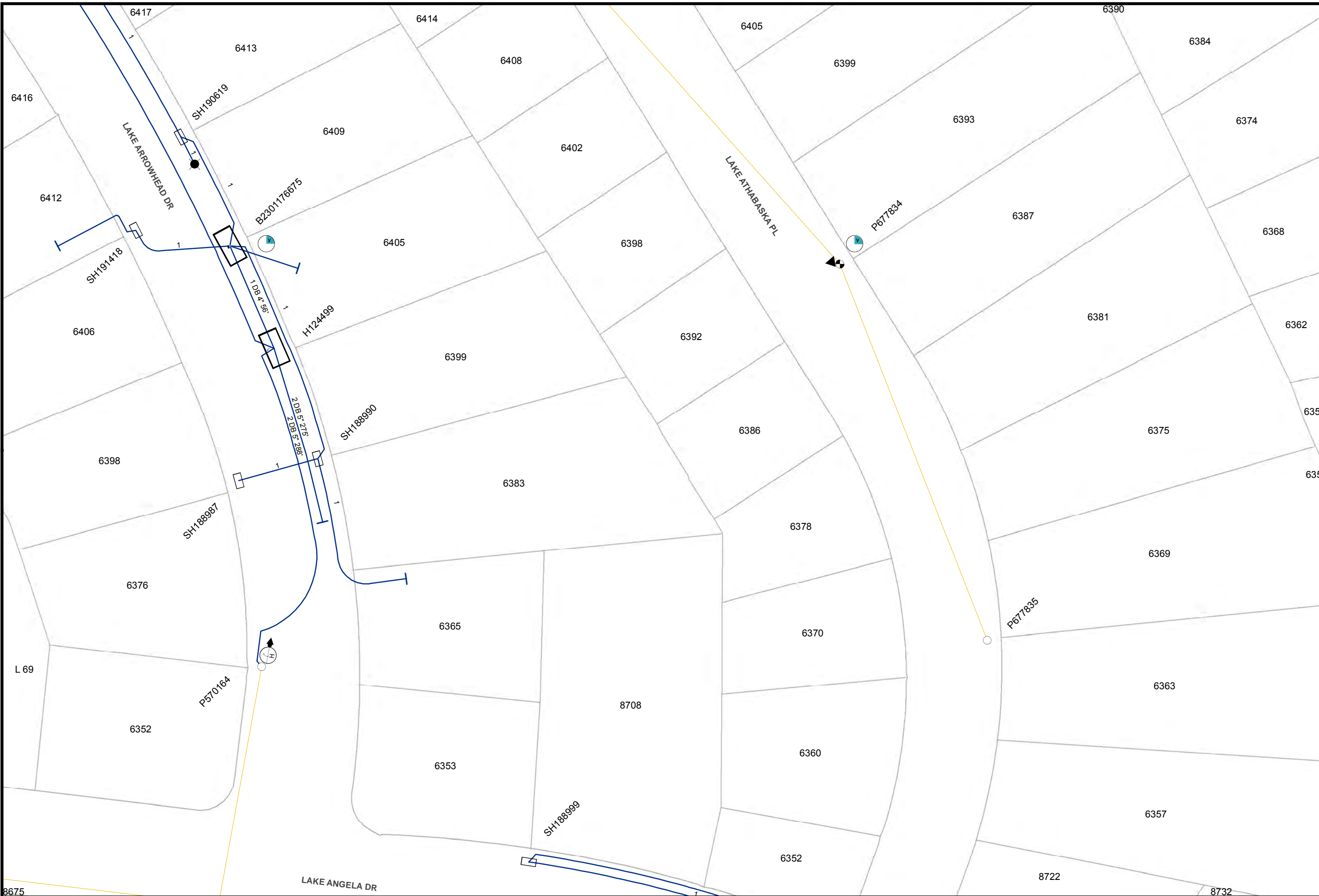
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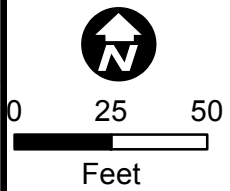
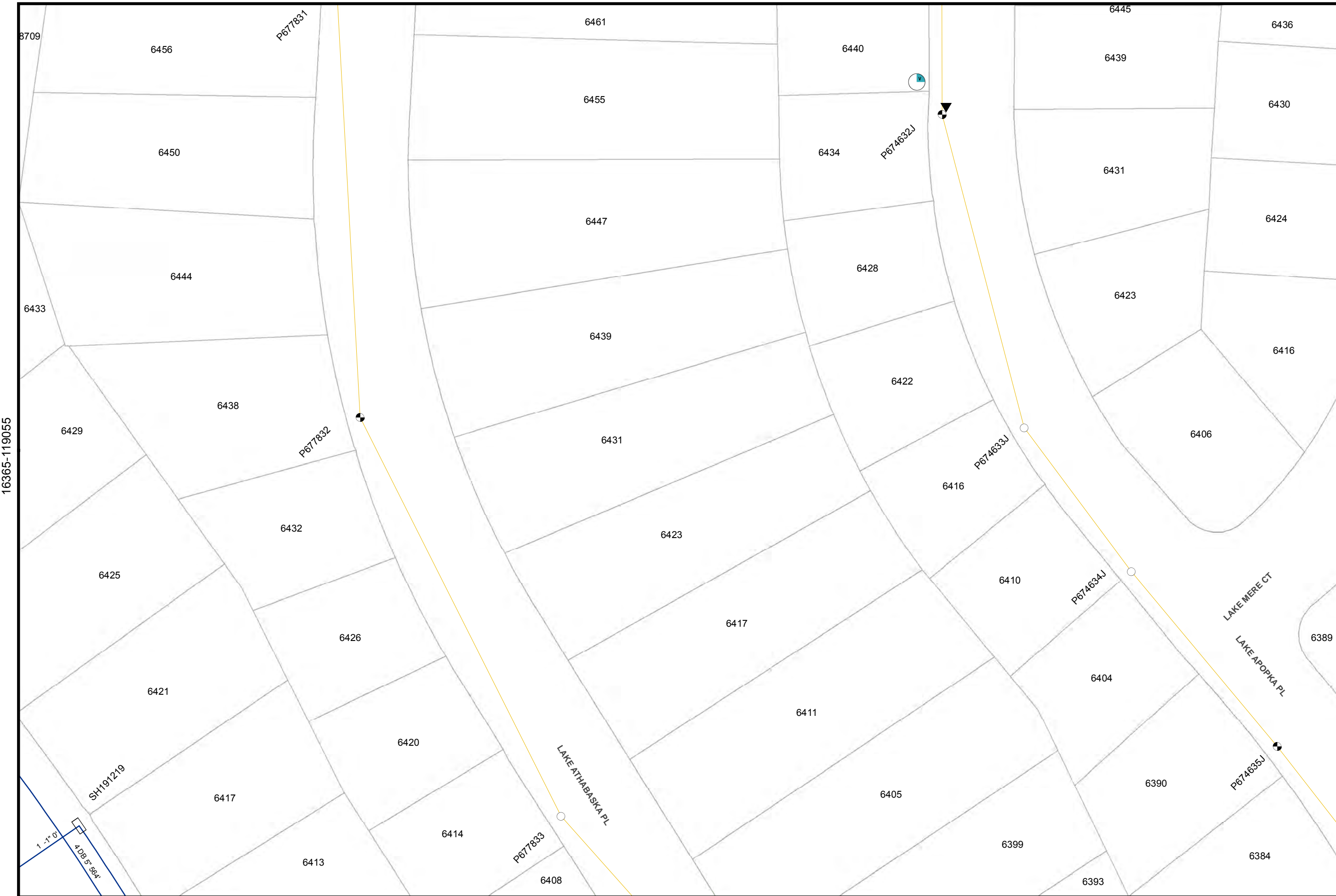


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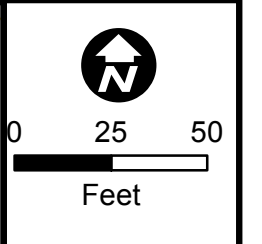
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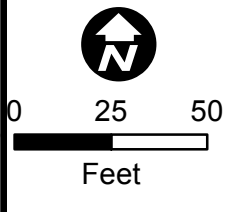
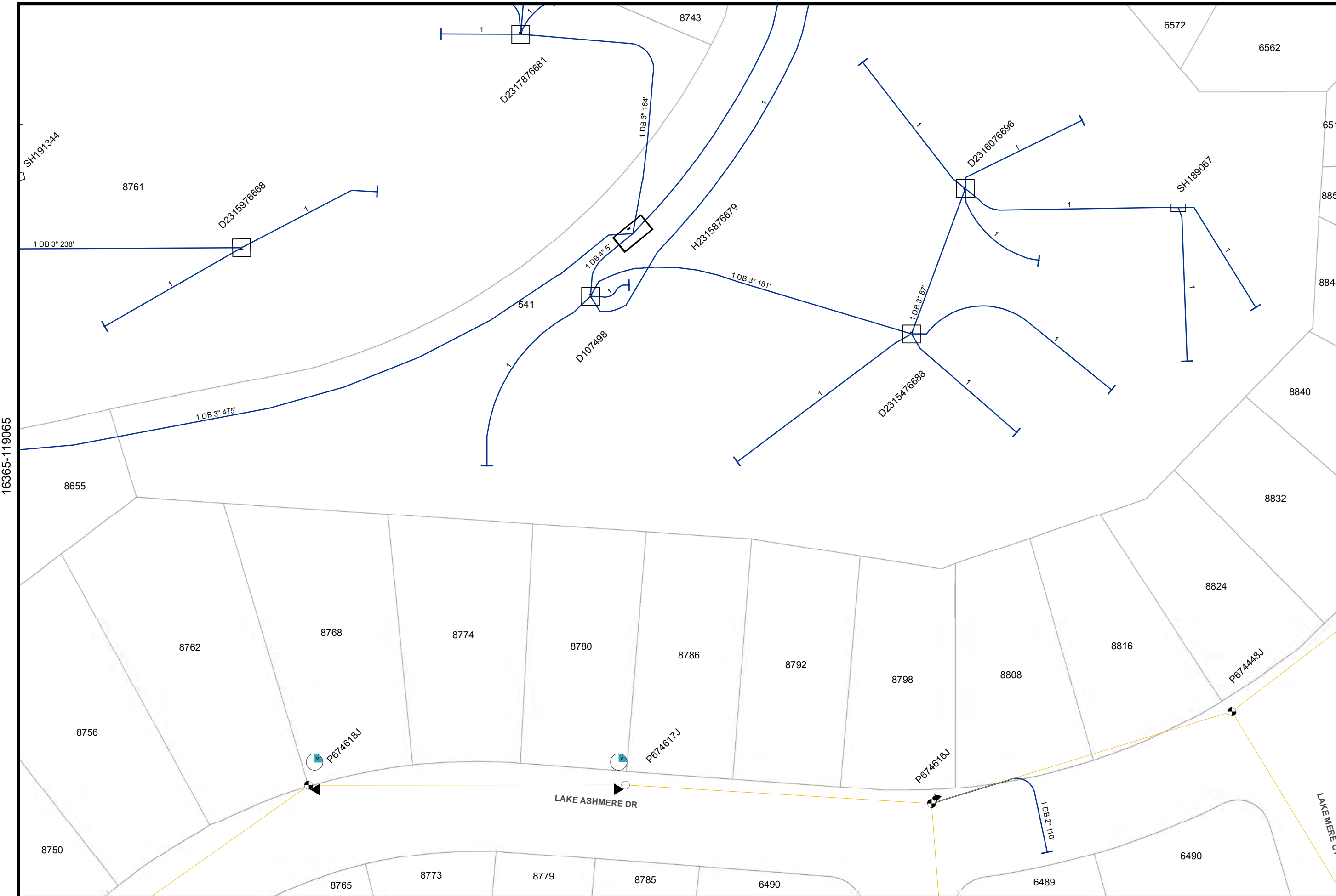
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16365-119060

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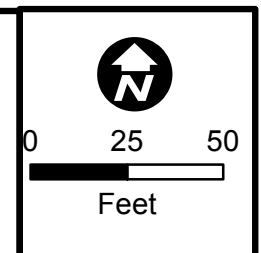
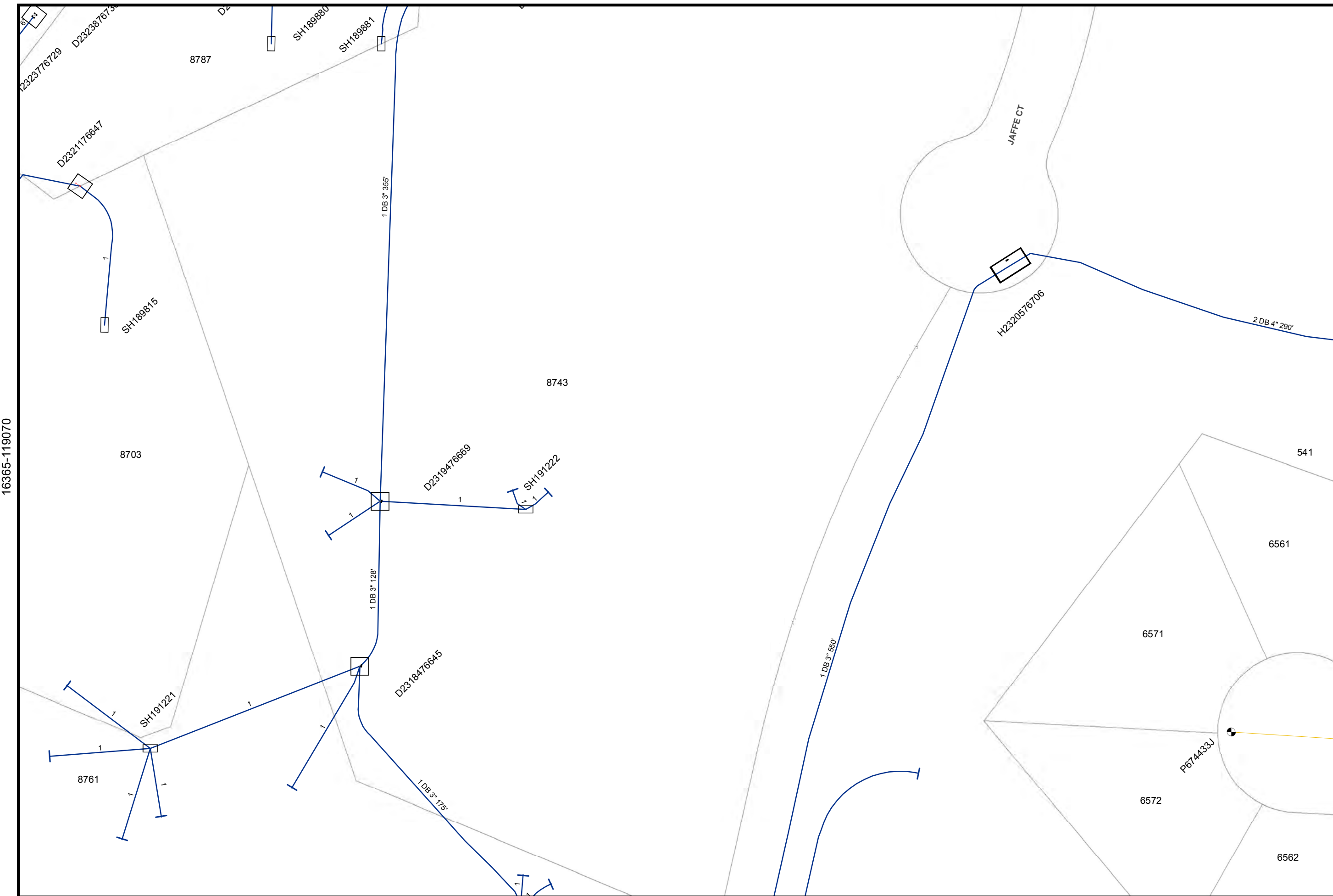


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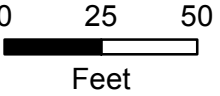


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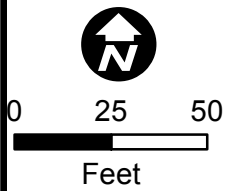
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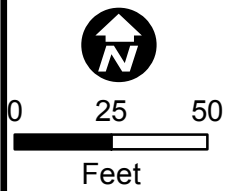


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16372-119030



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16387-119030

16372-119035



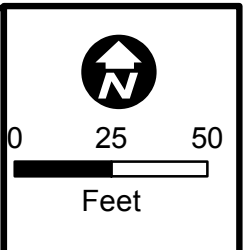
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 A Sempra Energy utility

16387-119035

16372-119040

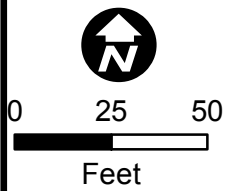


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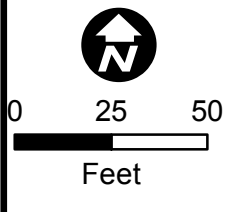
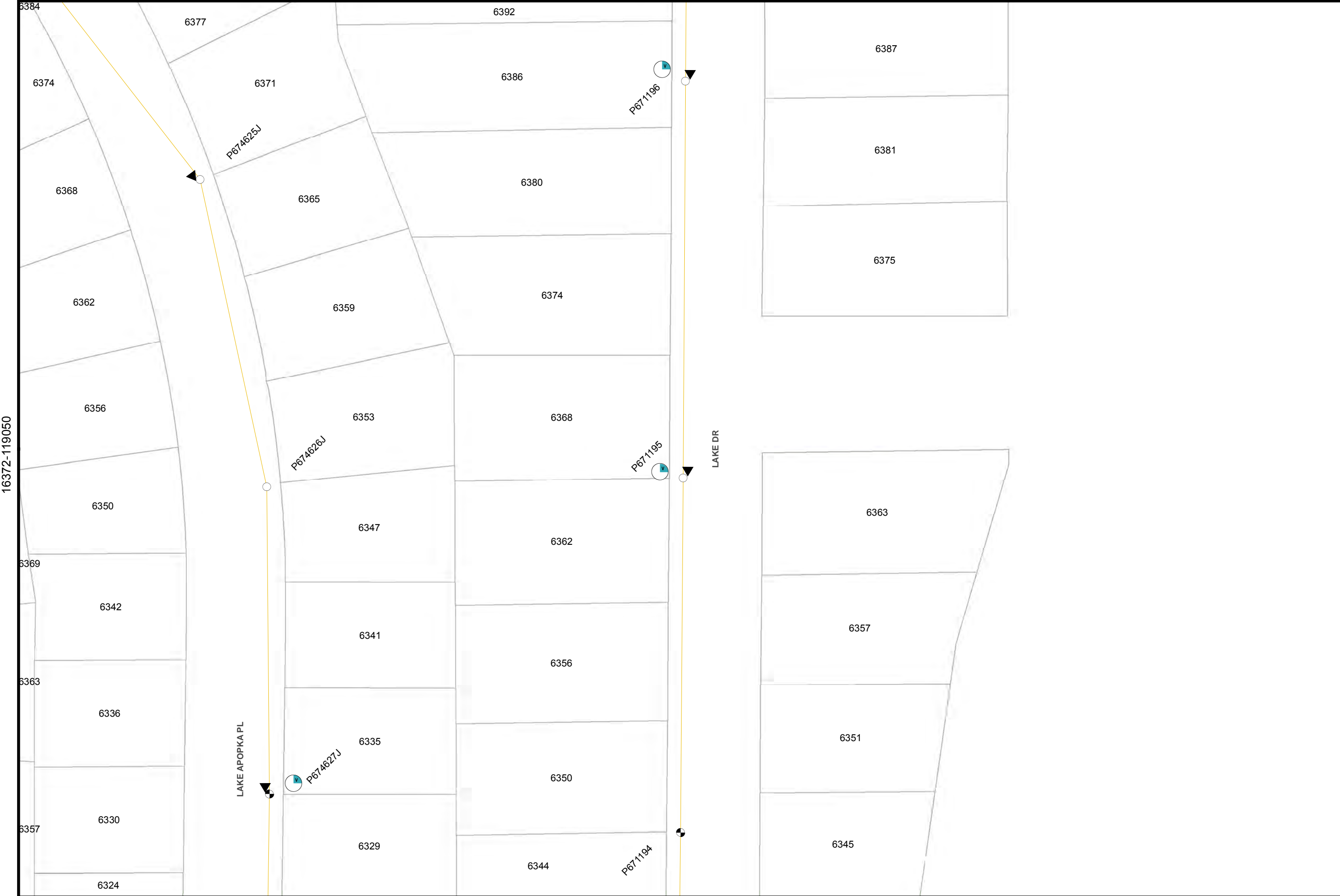
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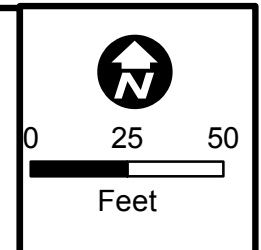
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16372-119050

16387-119050

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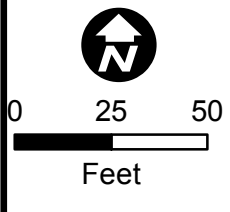
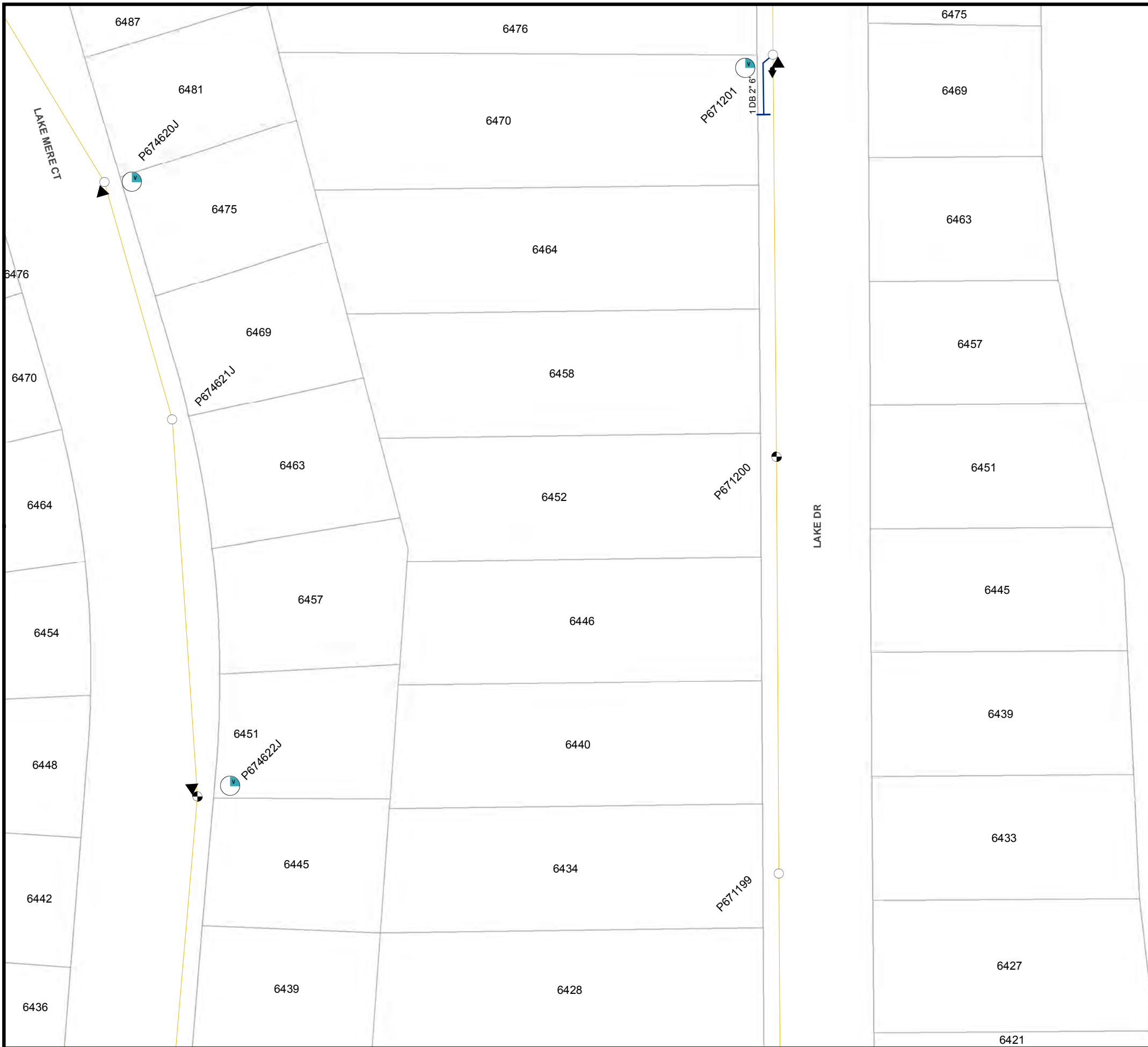
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Map Type: <b>Conductor Path Map</b>
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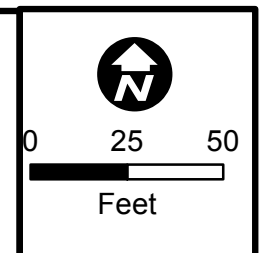
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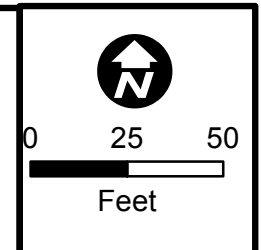
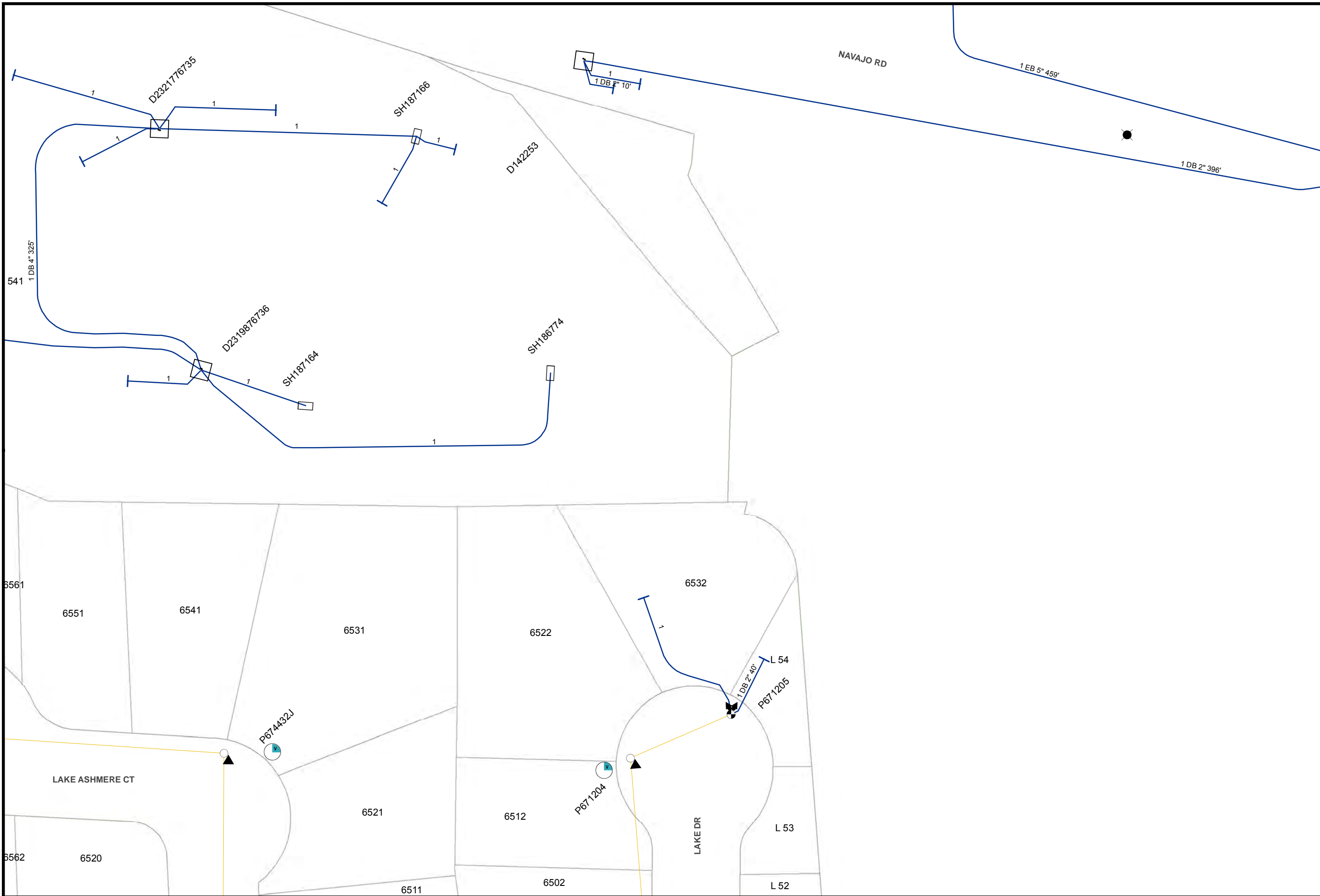
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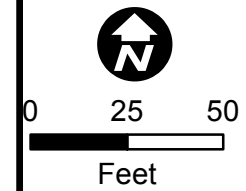
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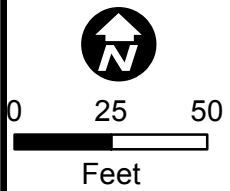
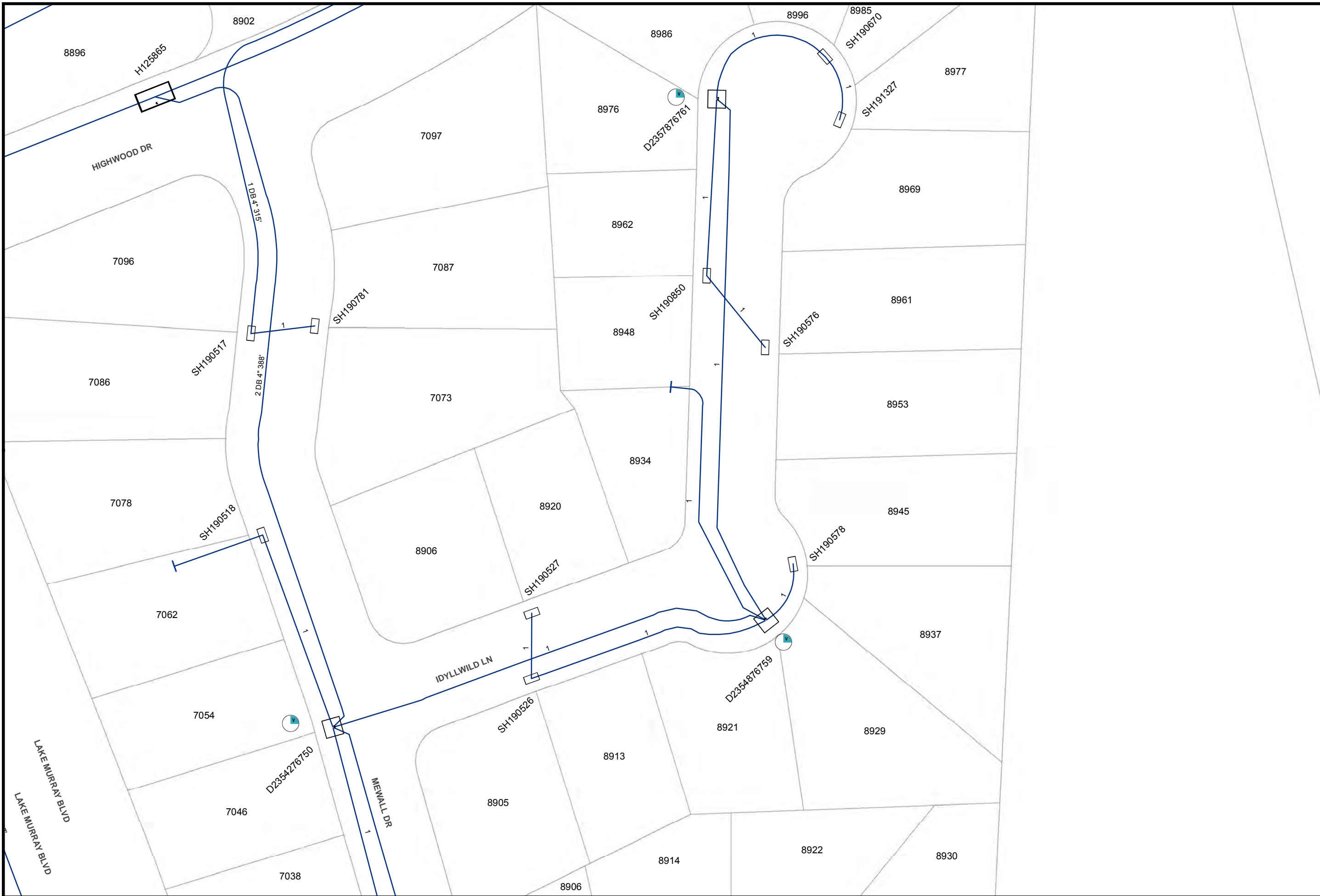
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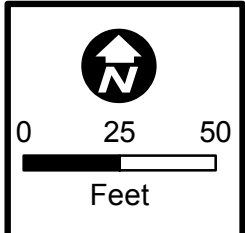
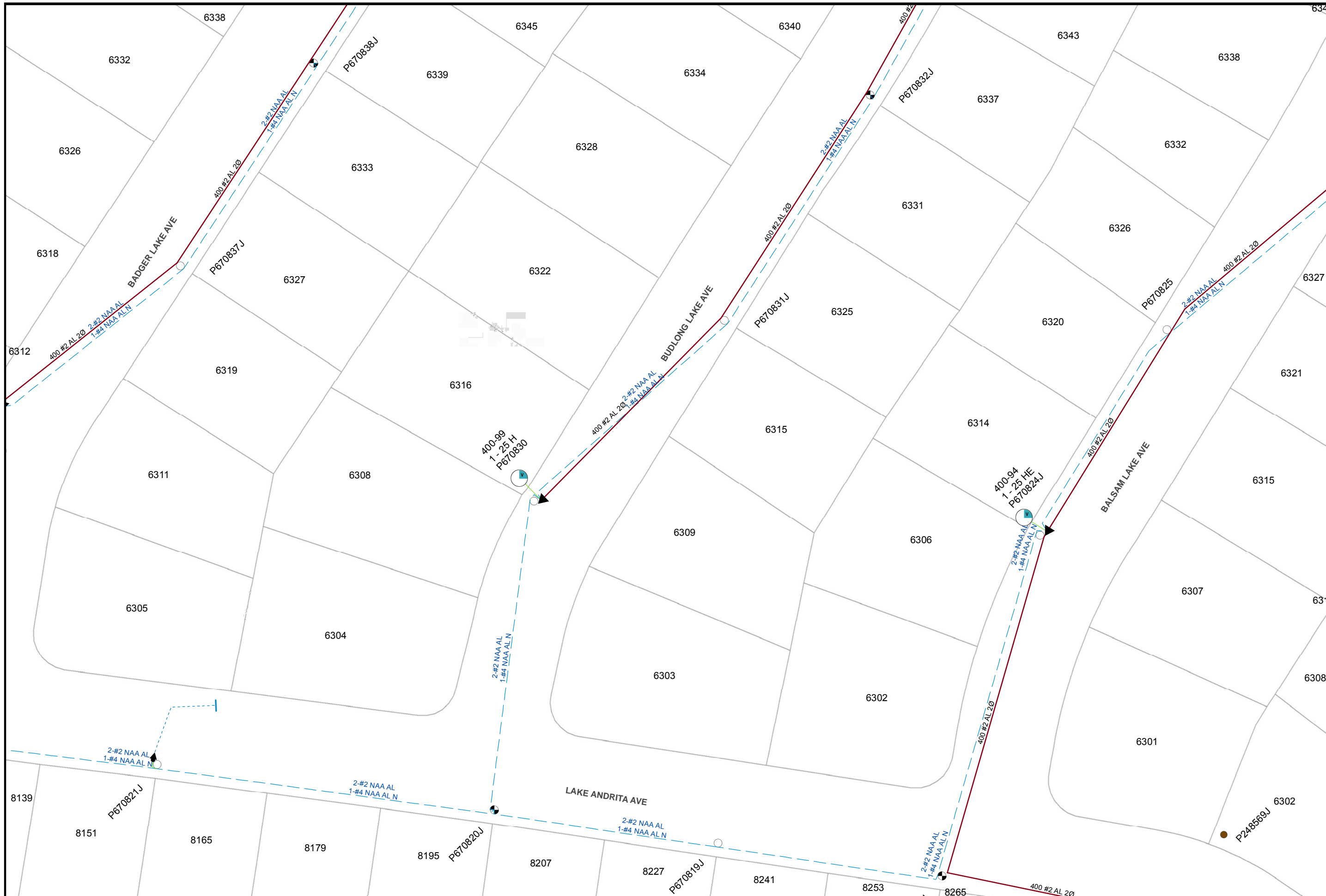


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## Electric Asset Map- Pipeline Rehab AQ-1



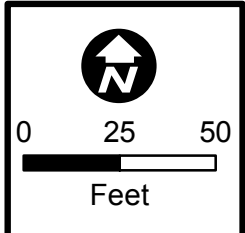
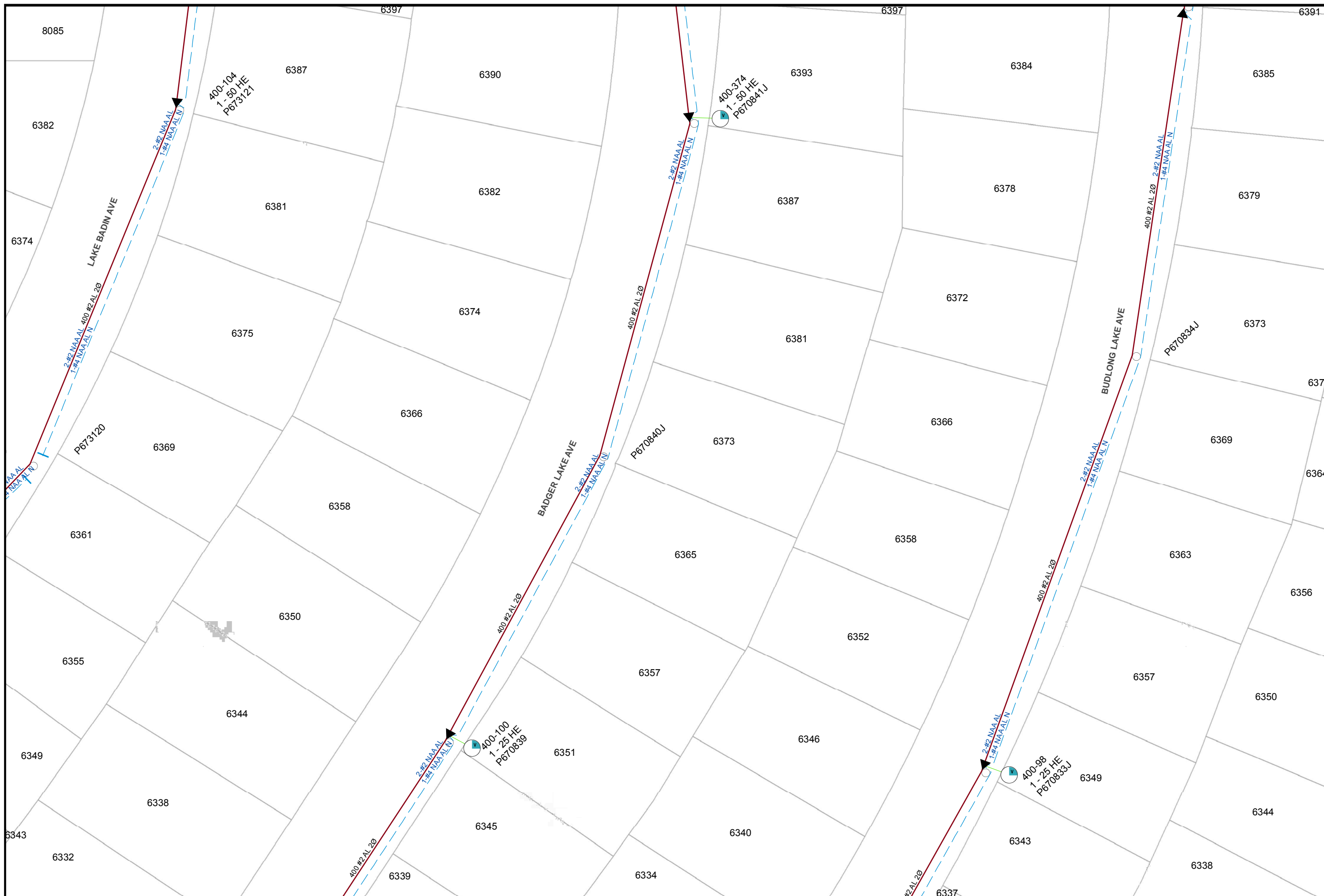
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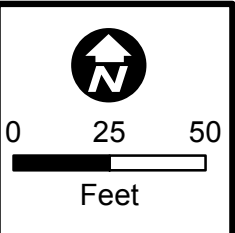
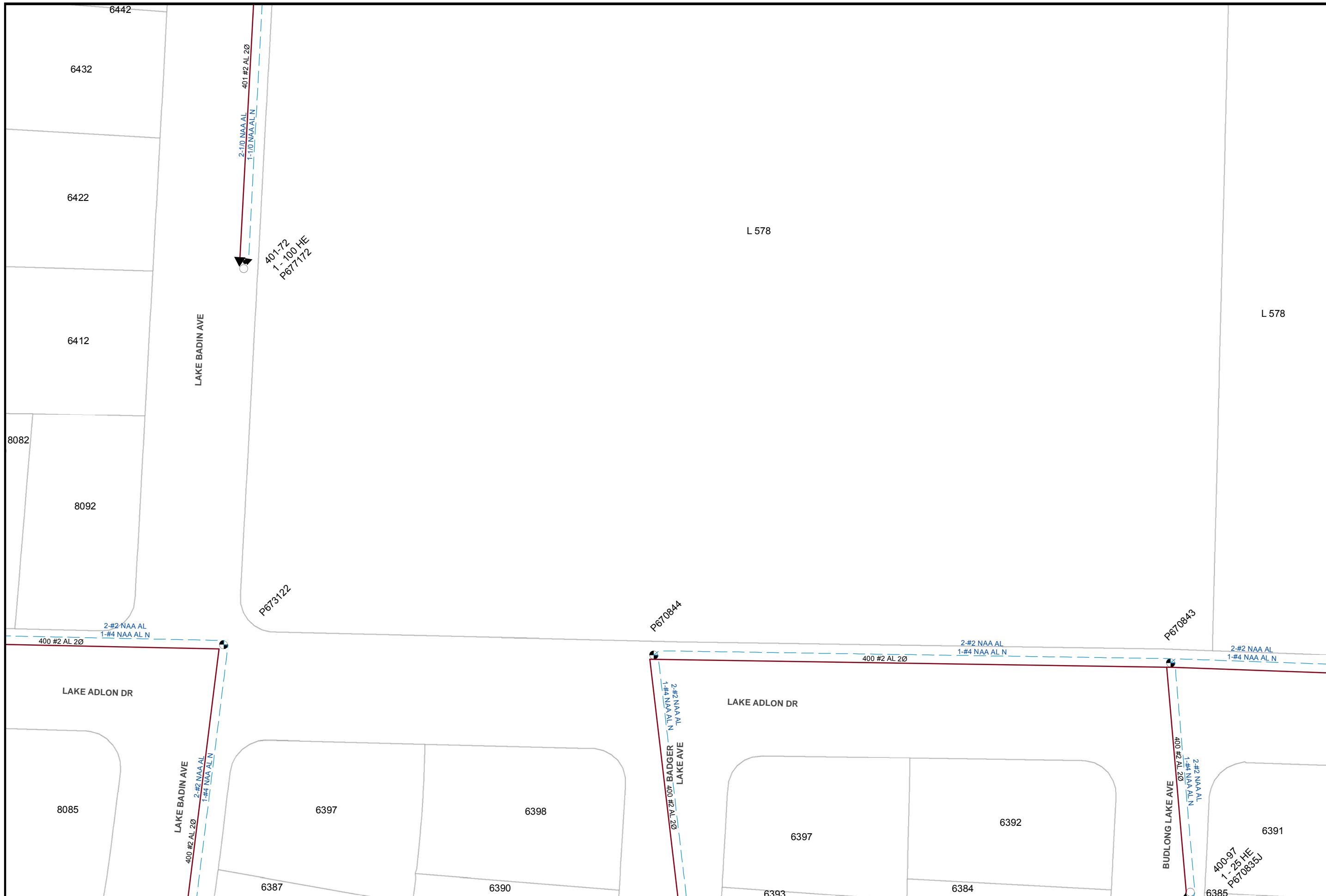
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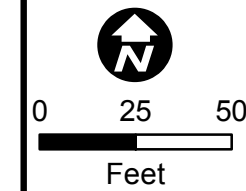


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Semptra Energy utility

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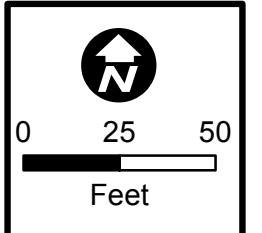
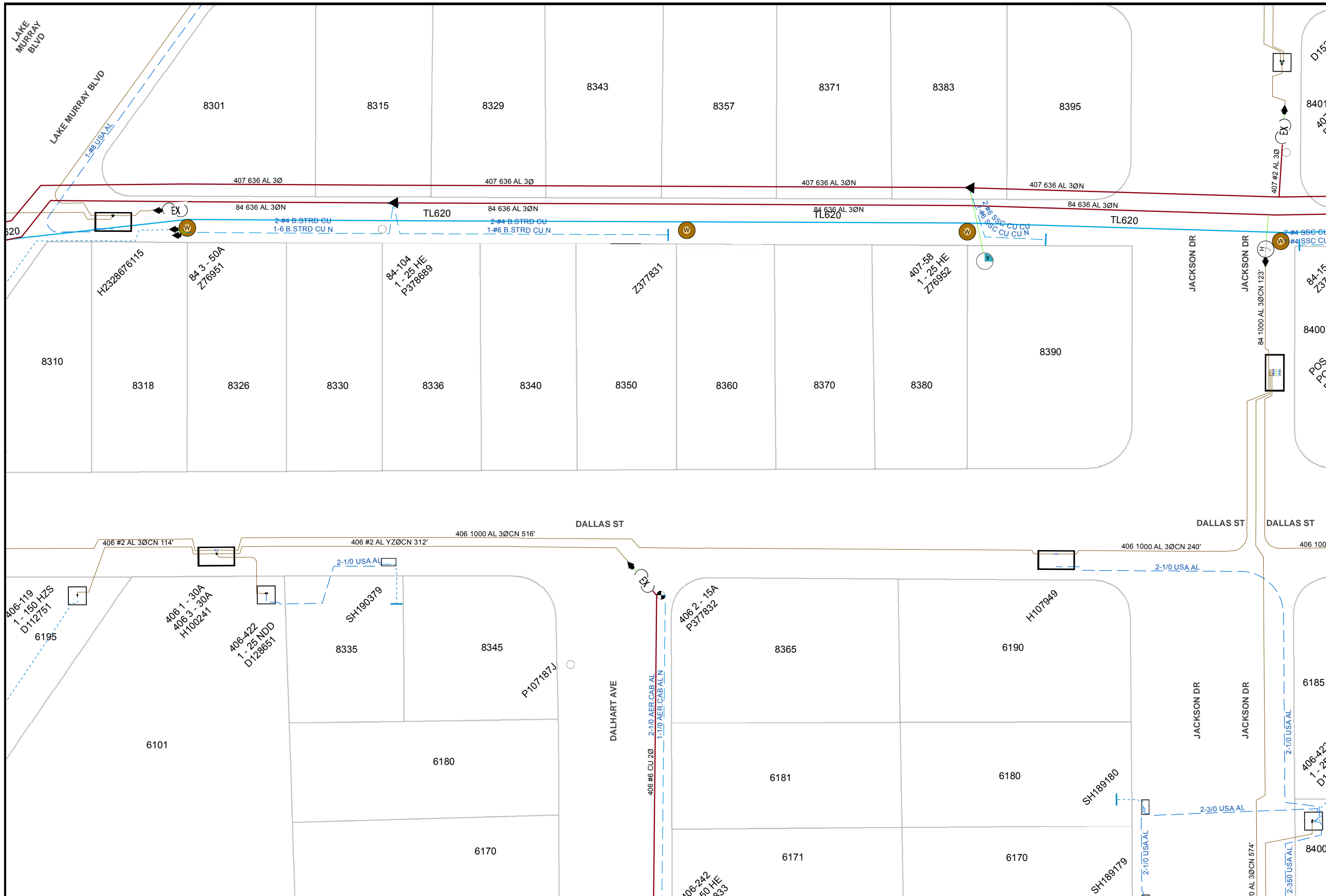
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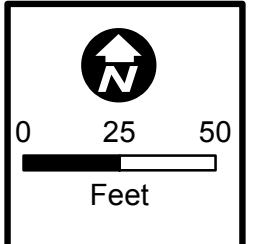
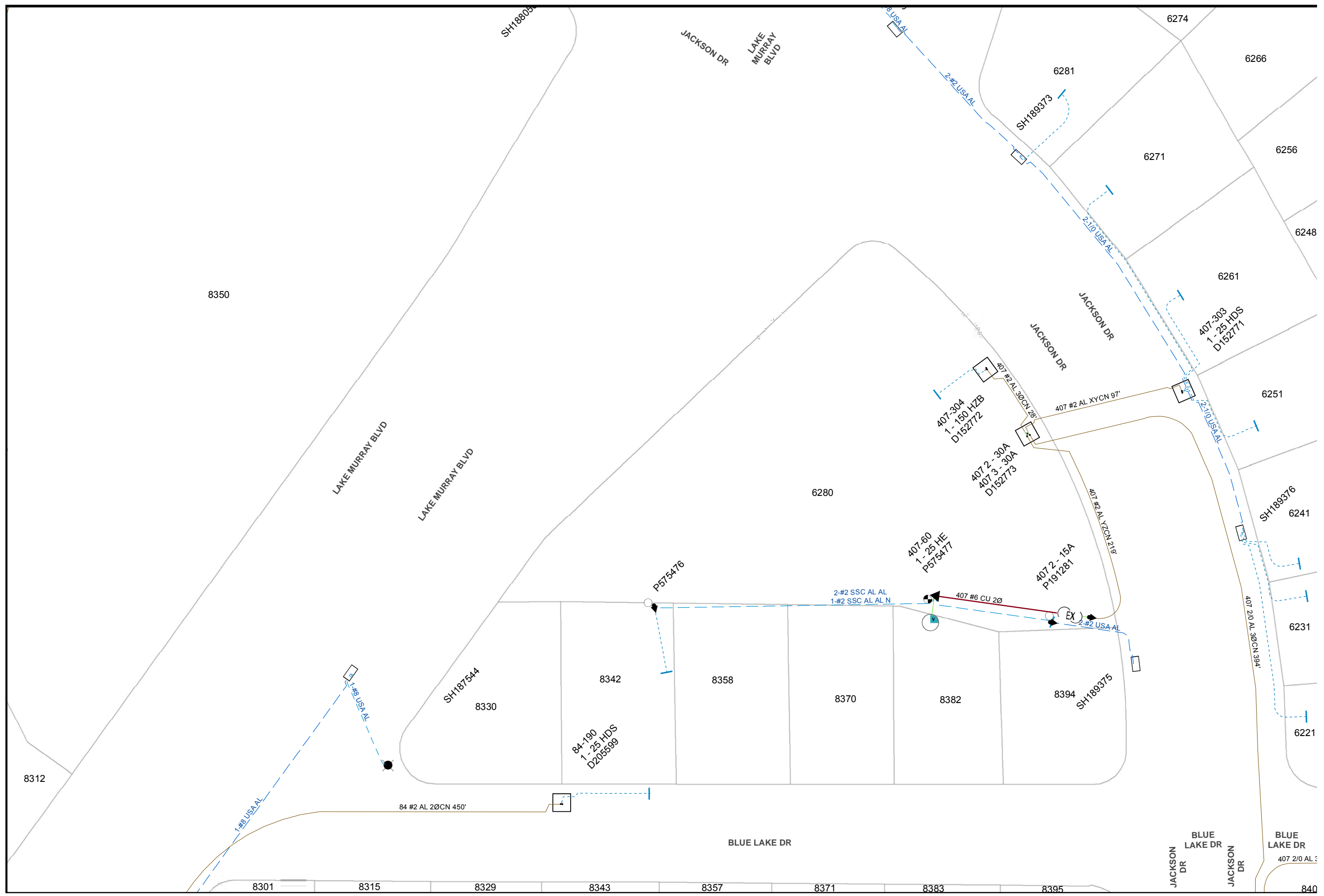
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Sempra Energy utility

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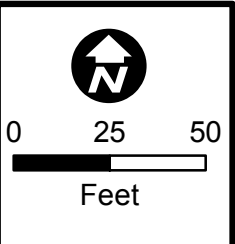
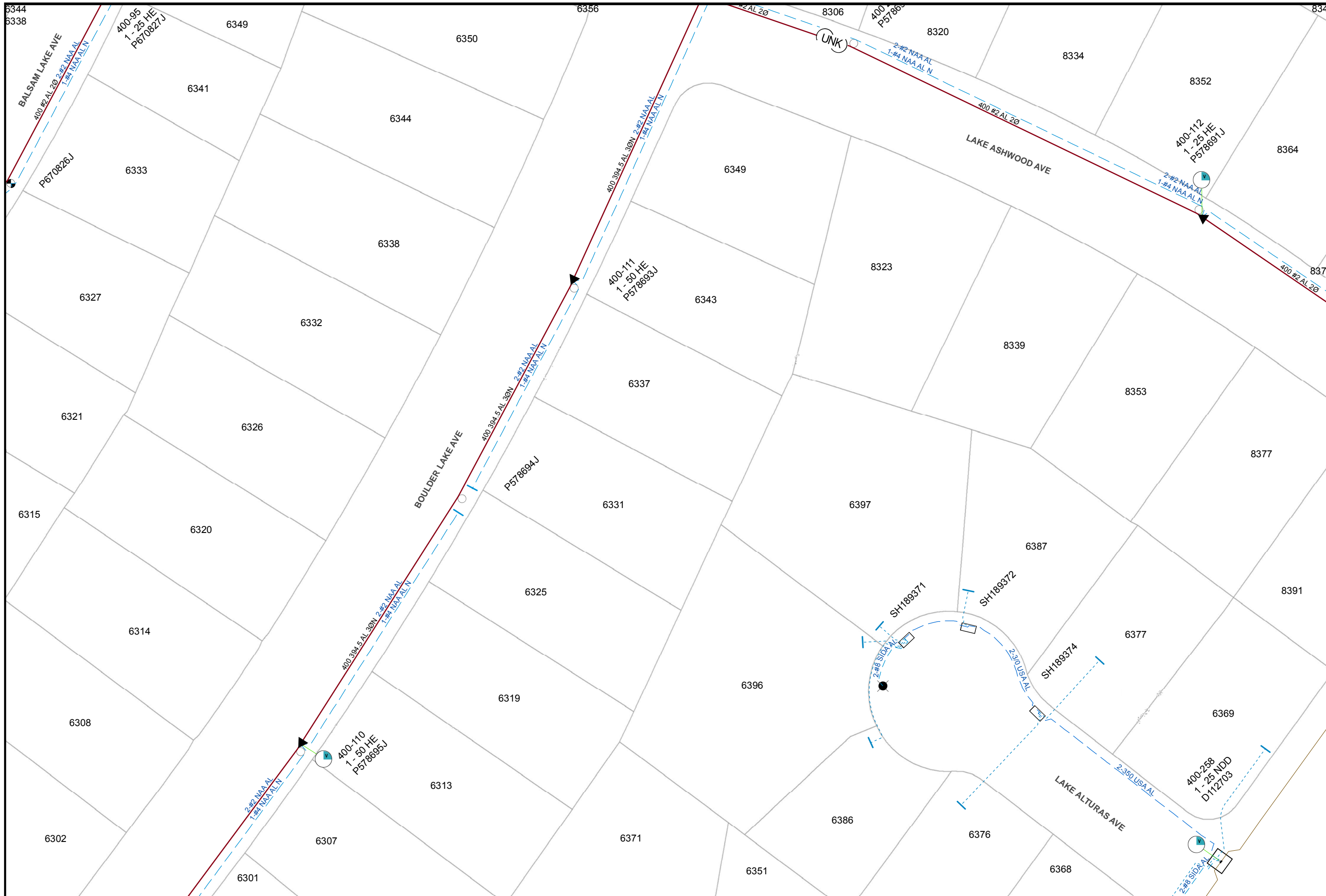
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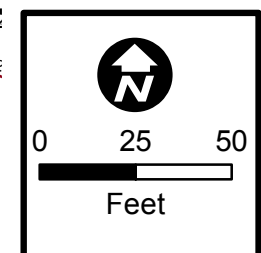
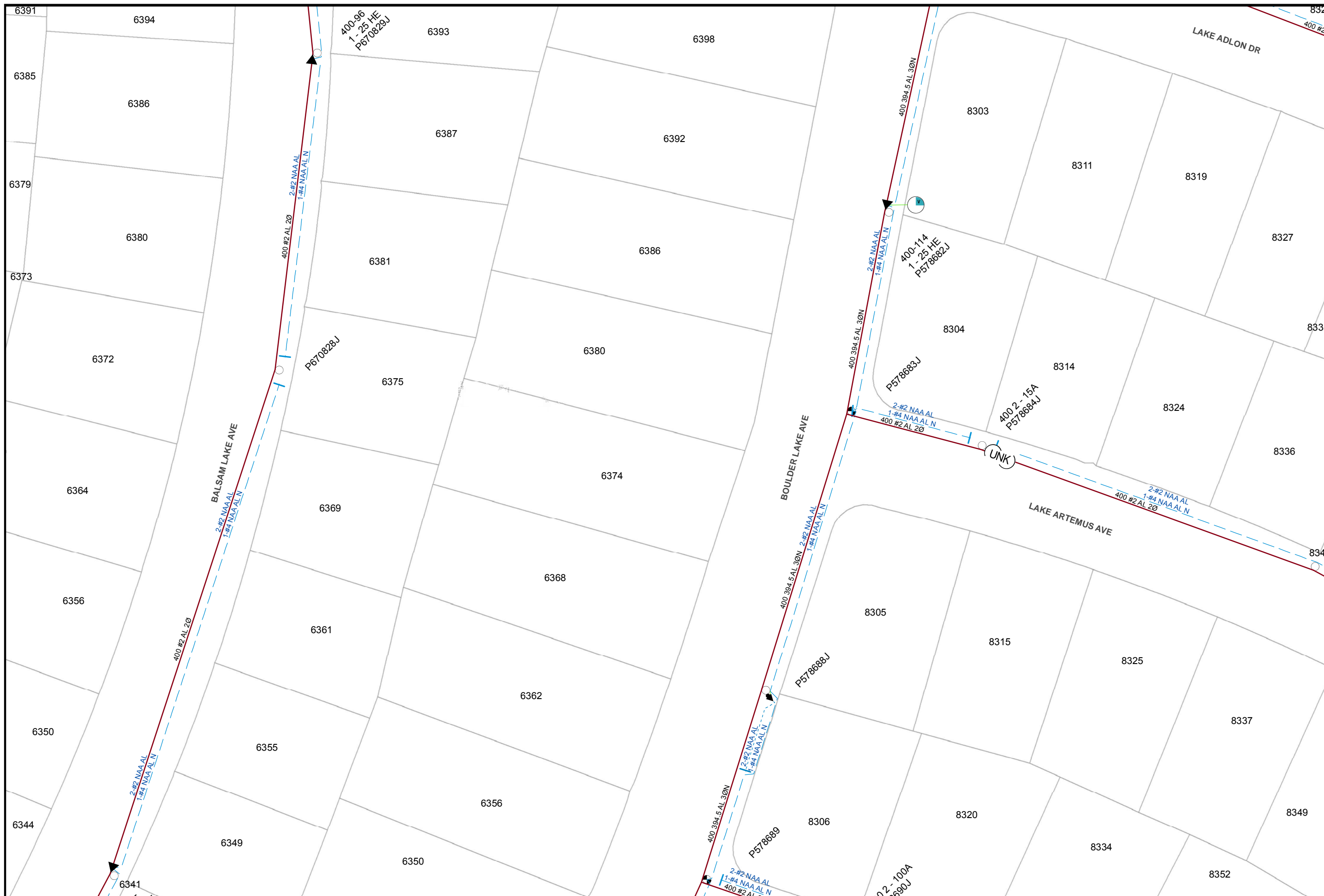
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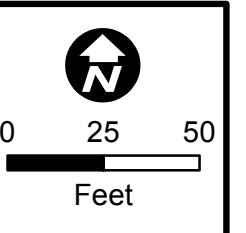
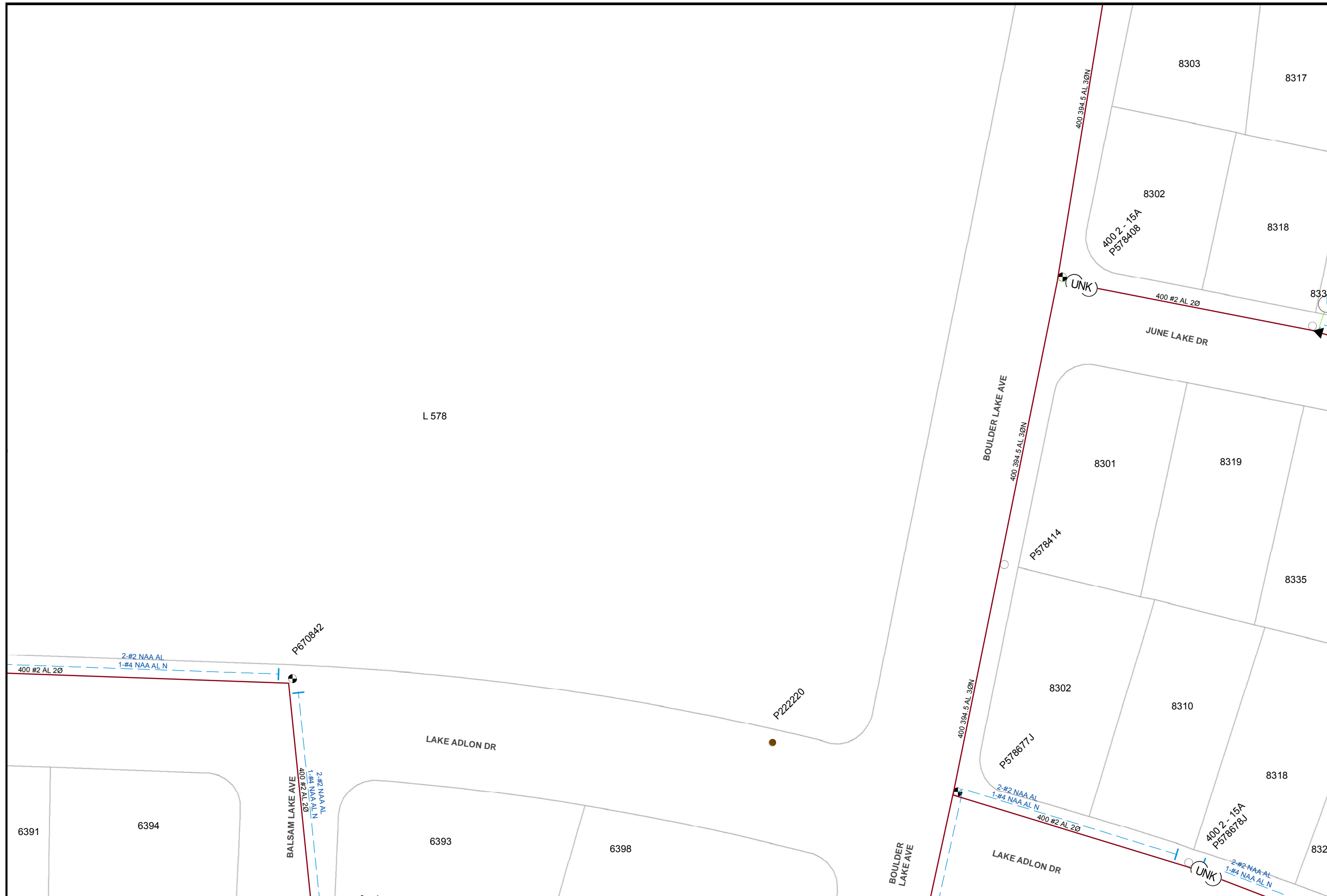
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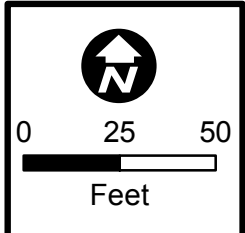
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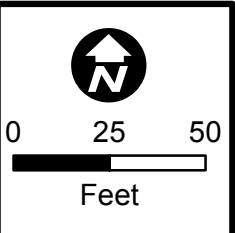
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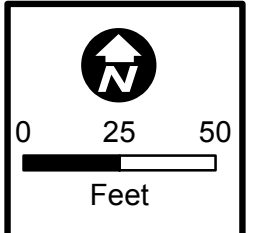
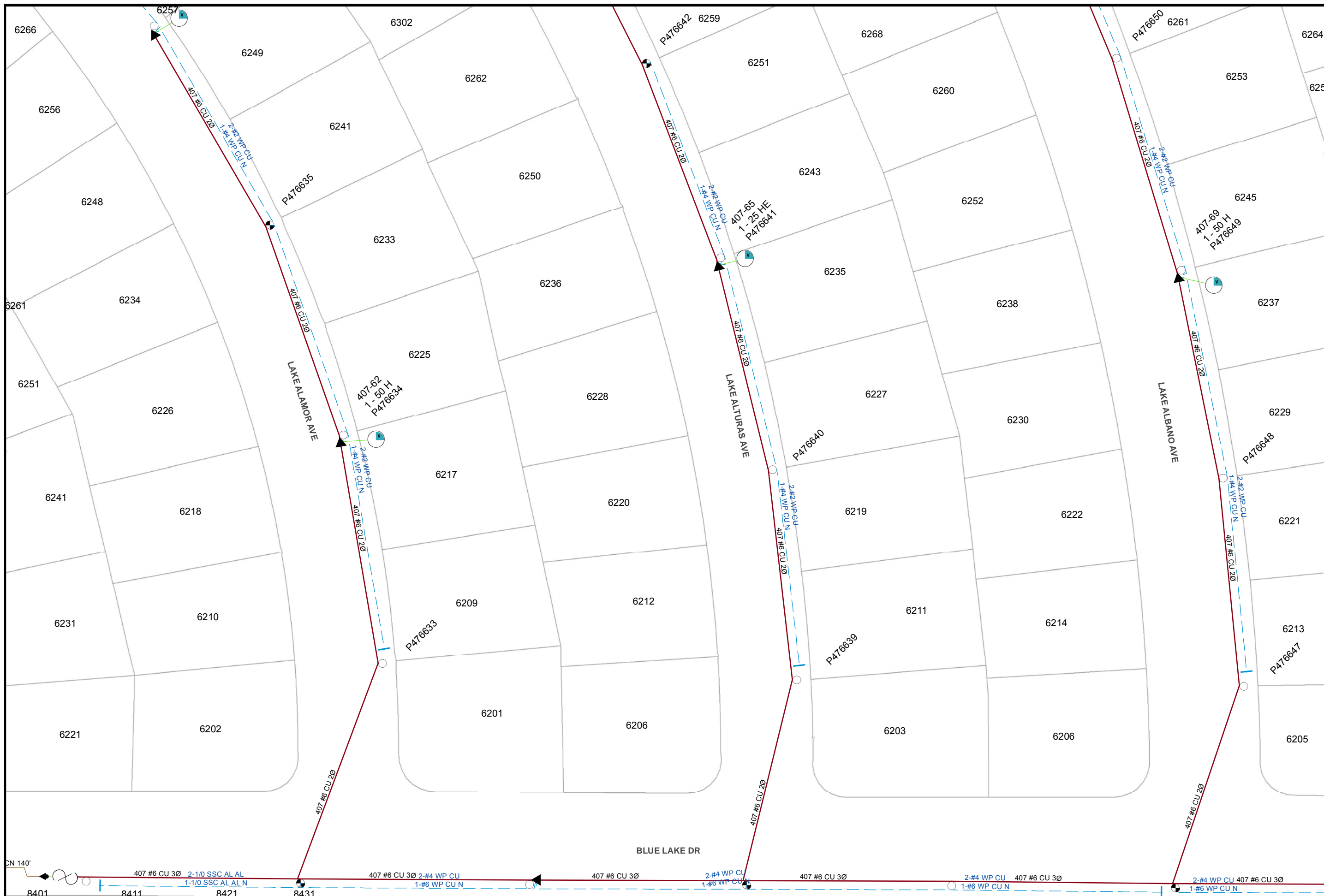


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 Sempra Energy utility

16357-119030



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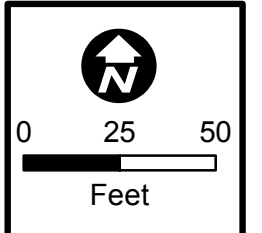
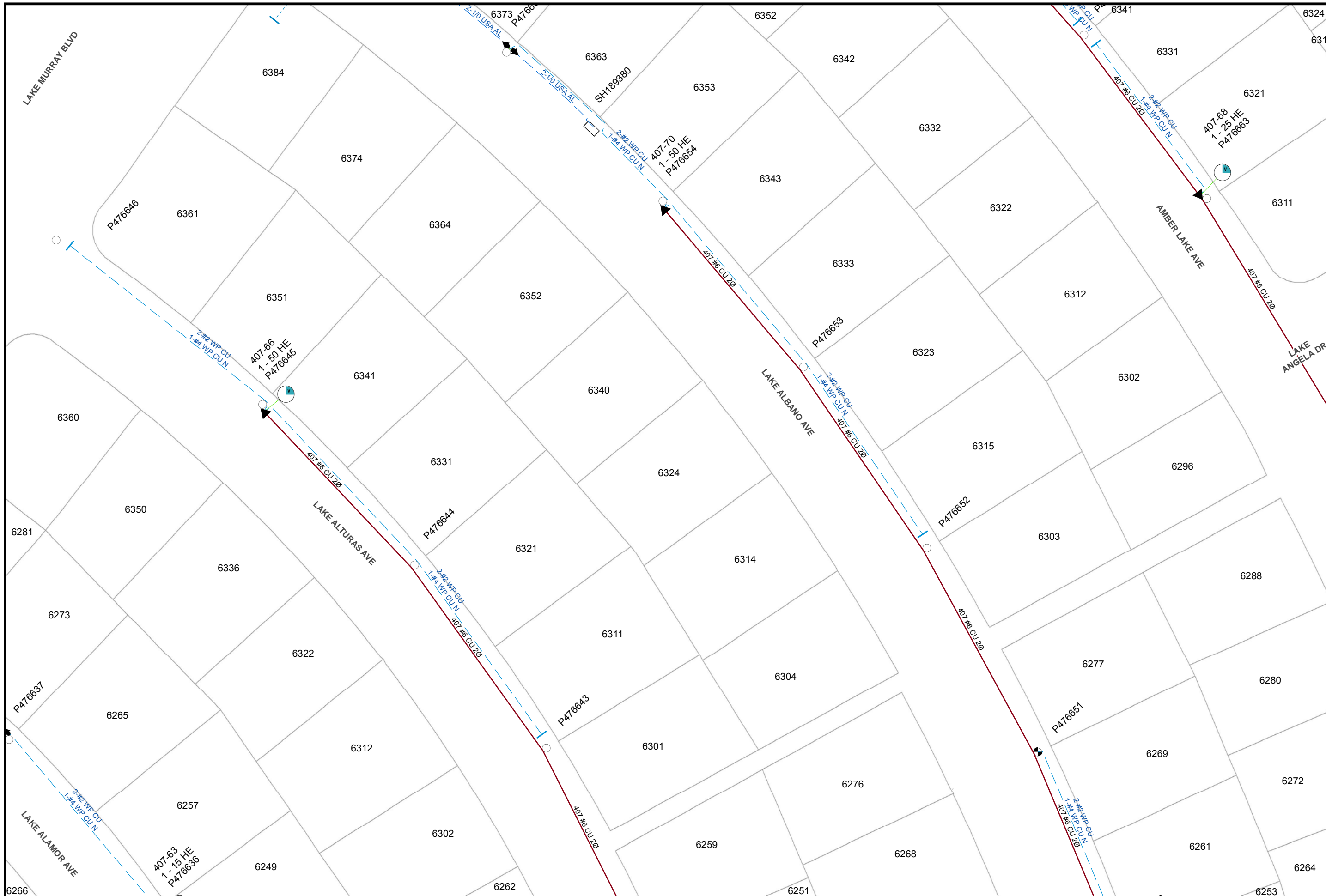
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16342-119035

16357-119035



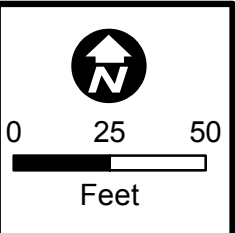


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Map Type: <b>Electric Asset Map</b>
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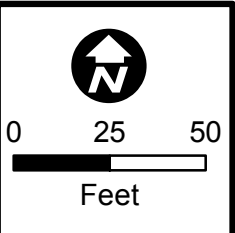
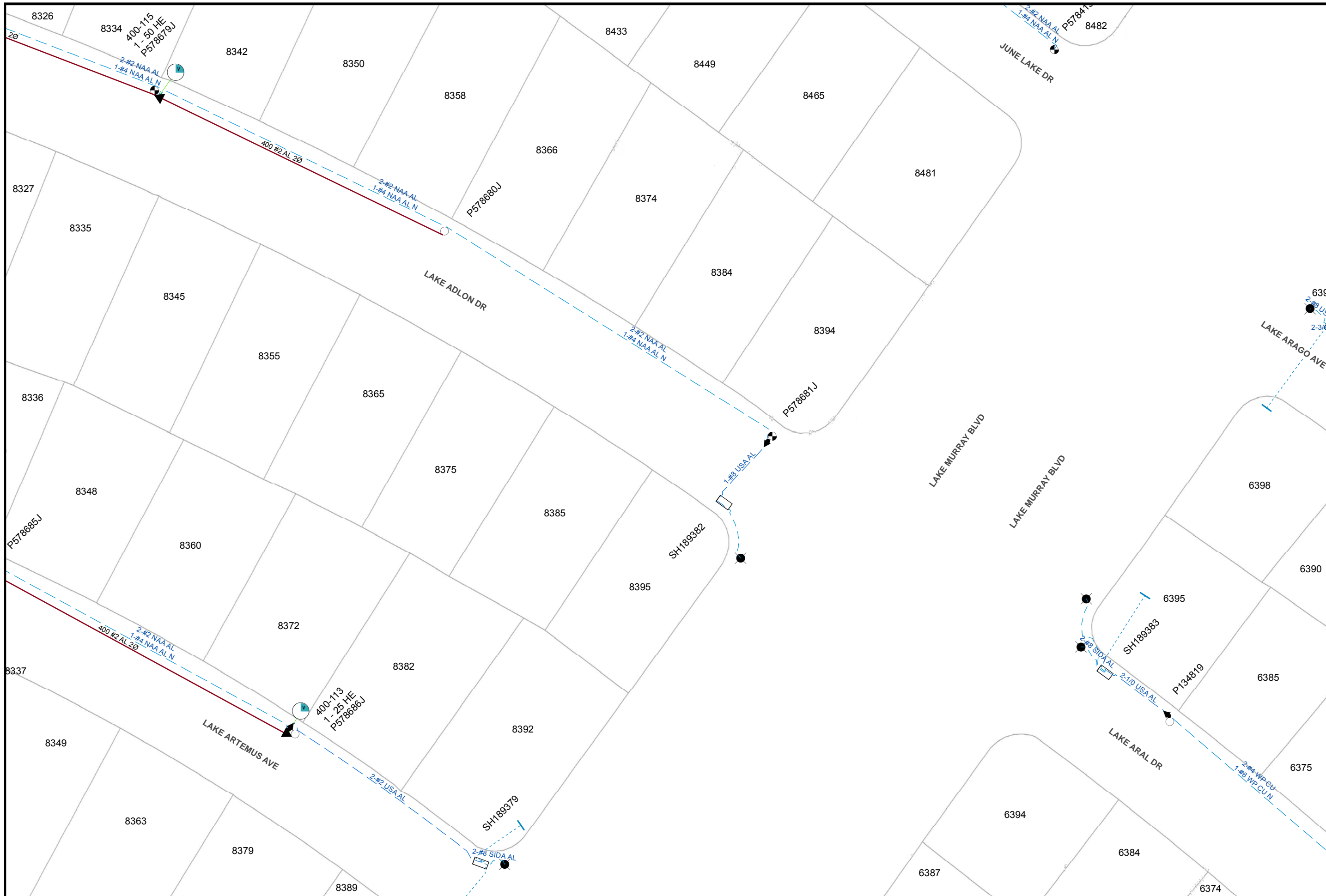
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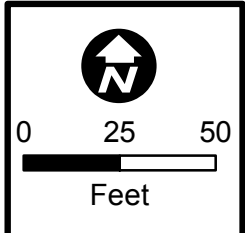
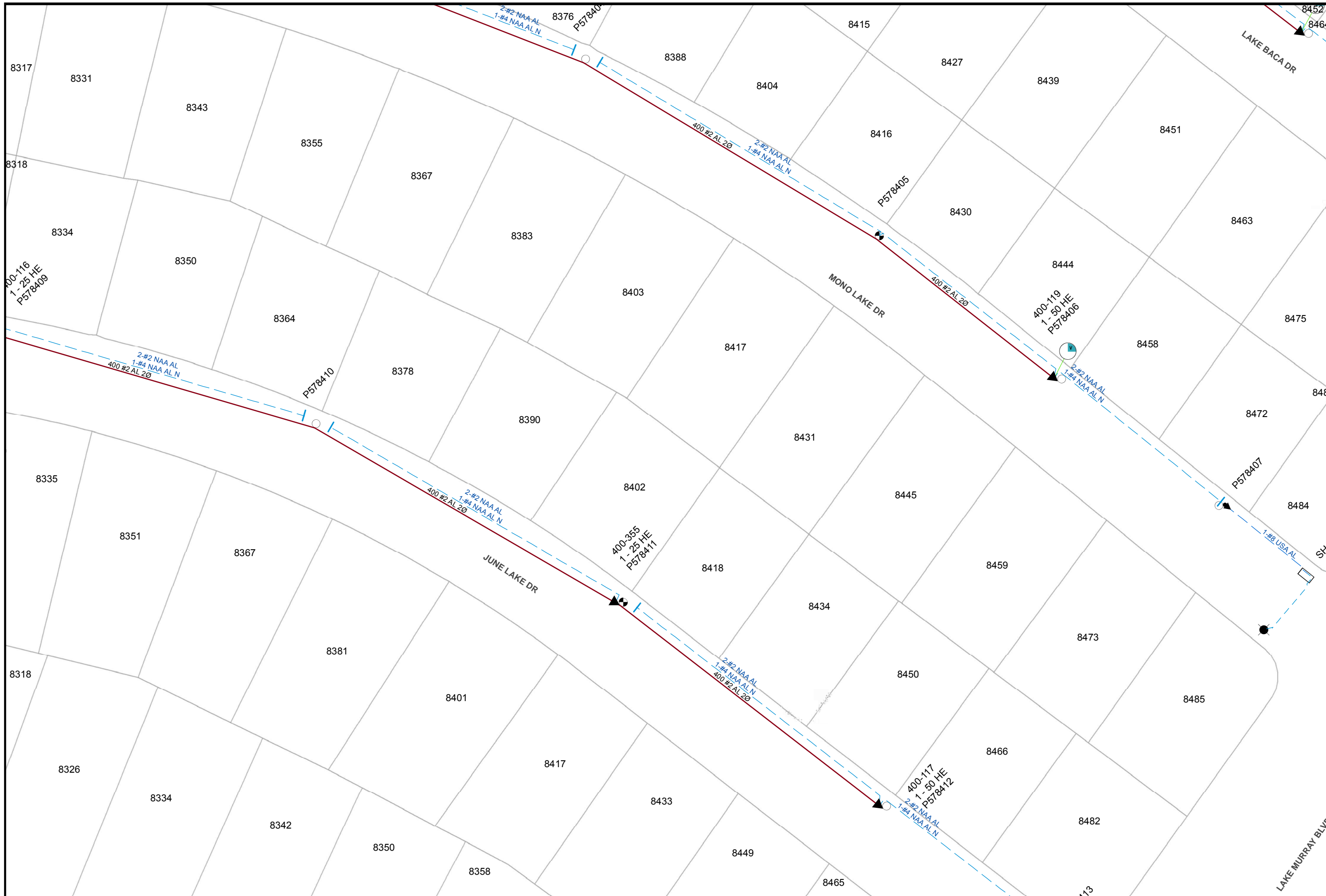
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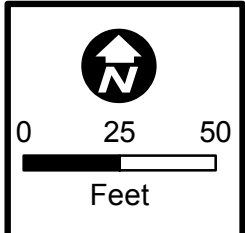
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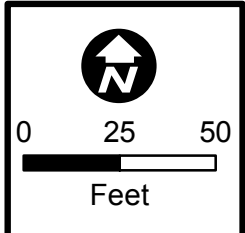
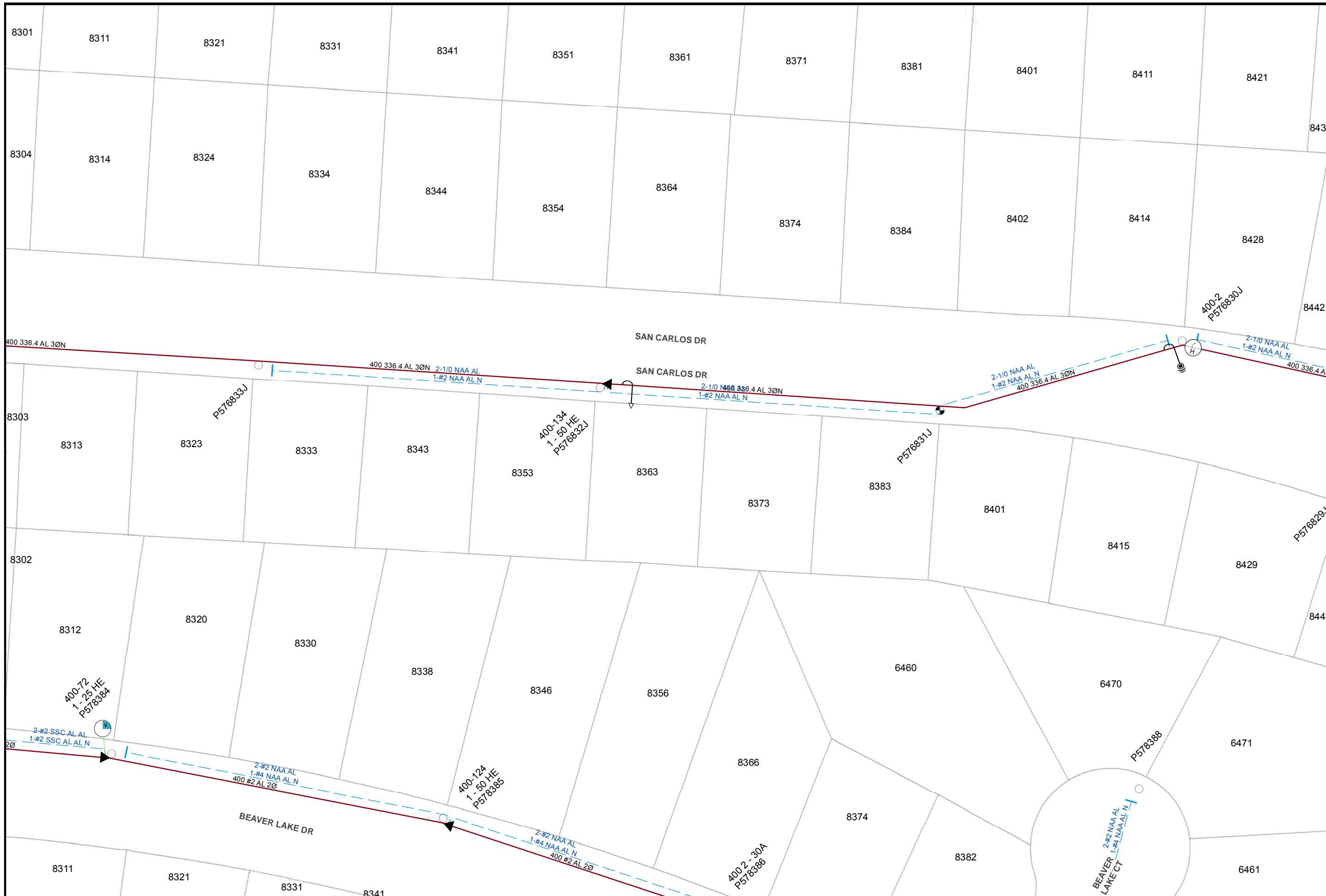


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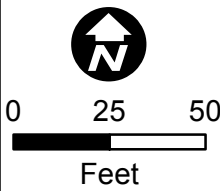
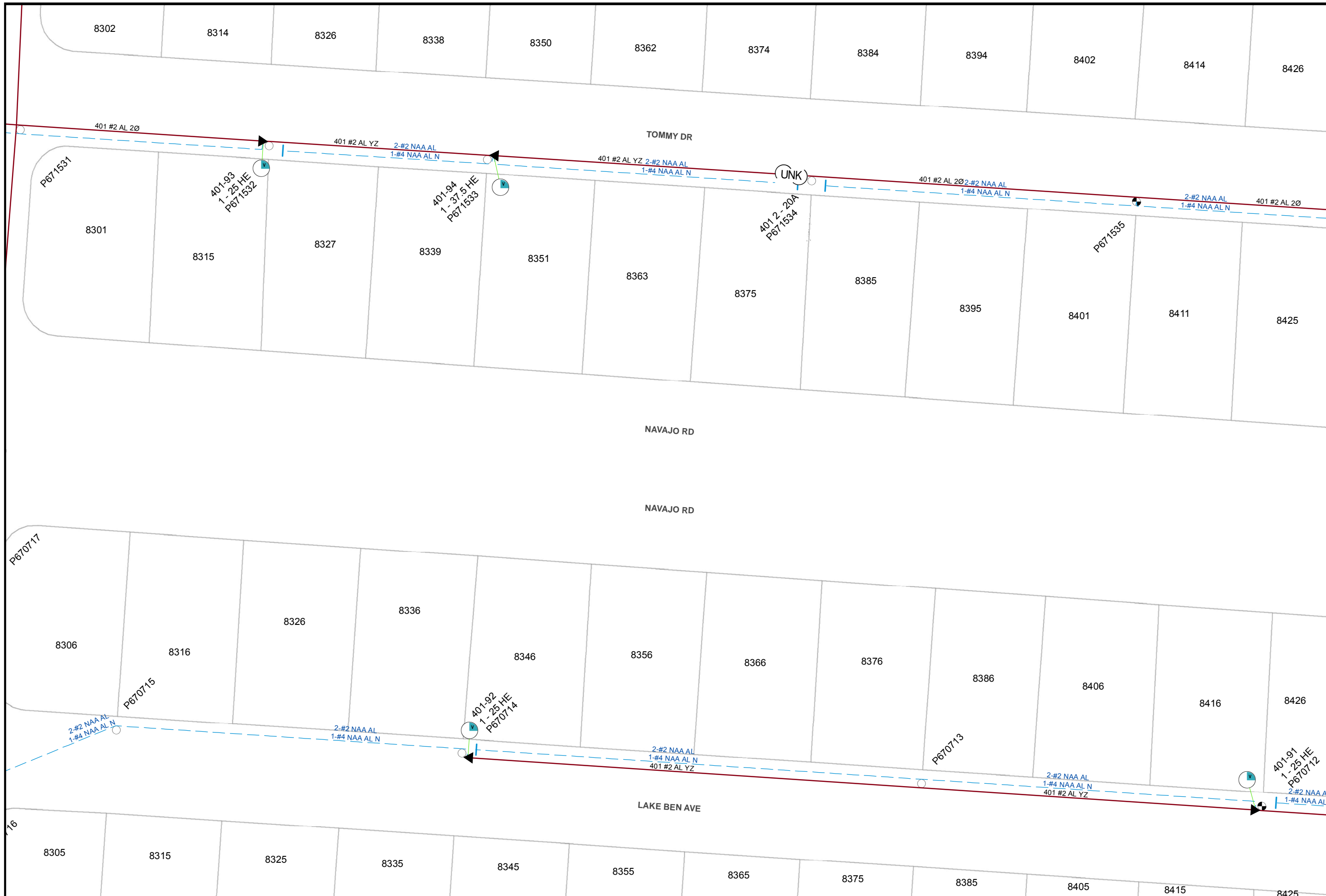
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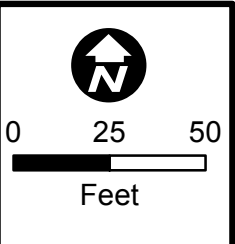
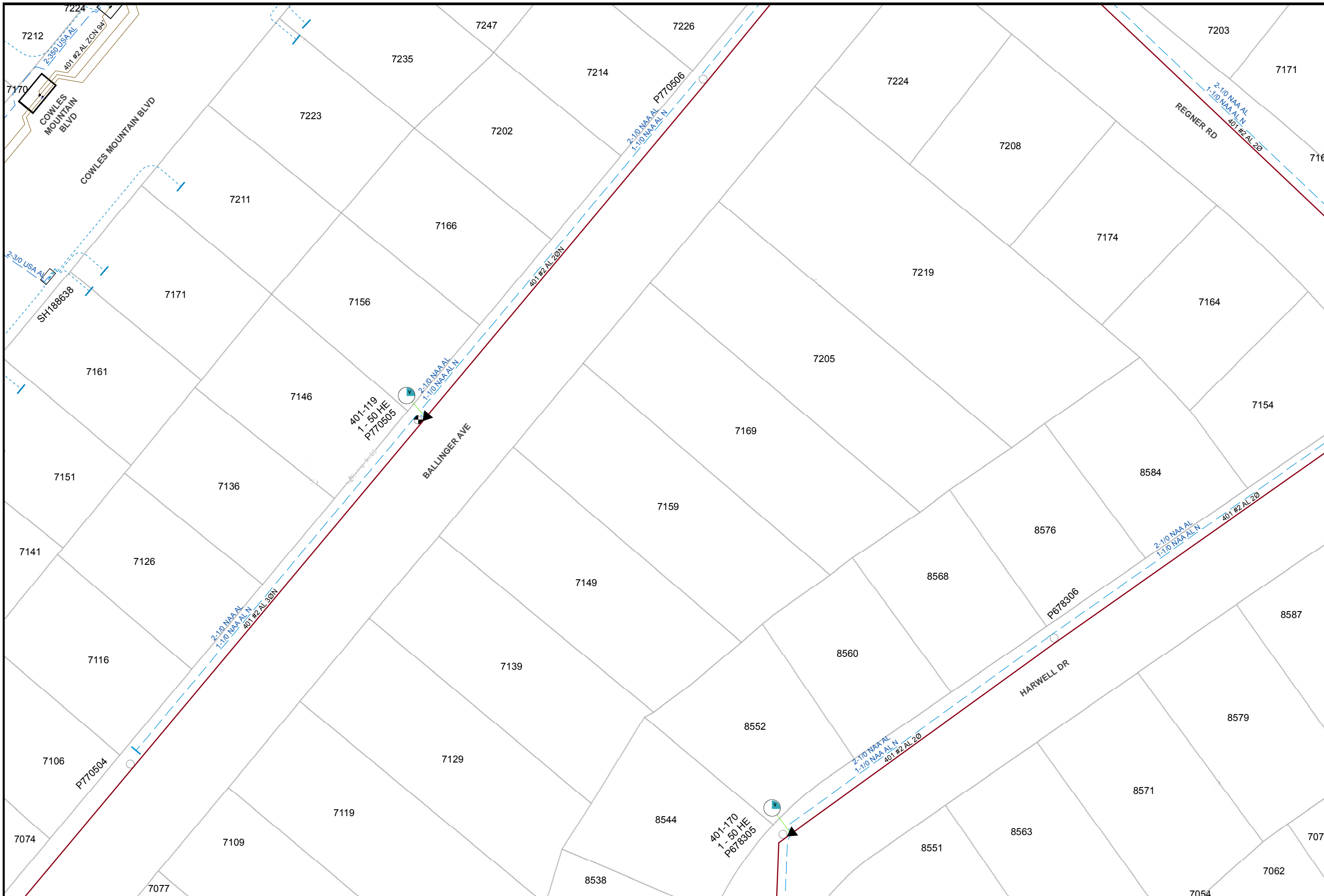
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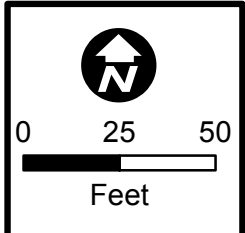
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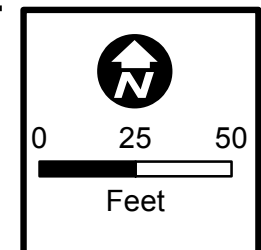
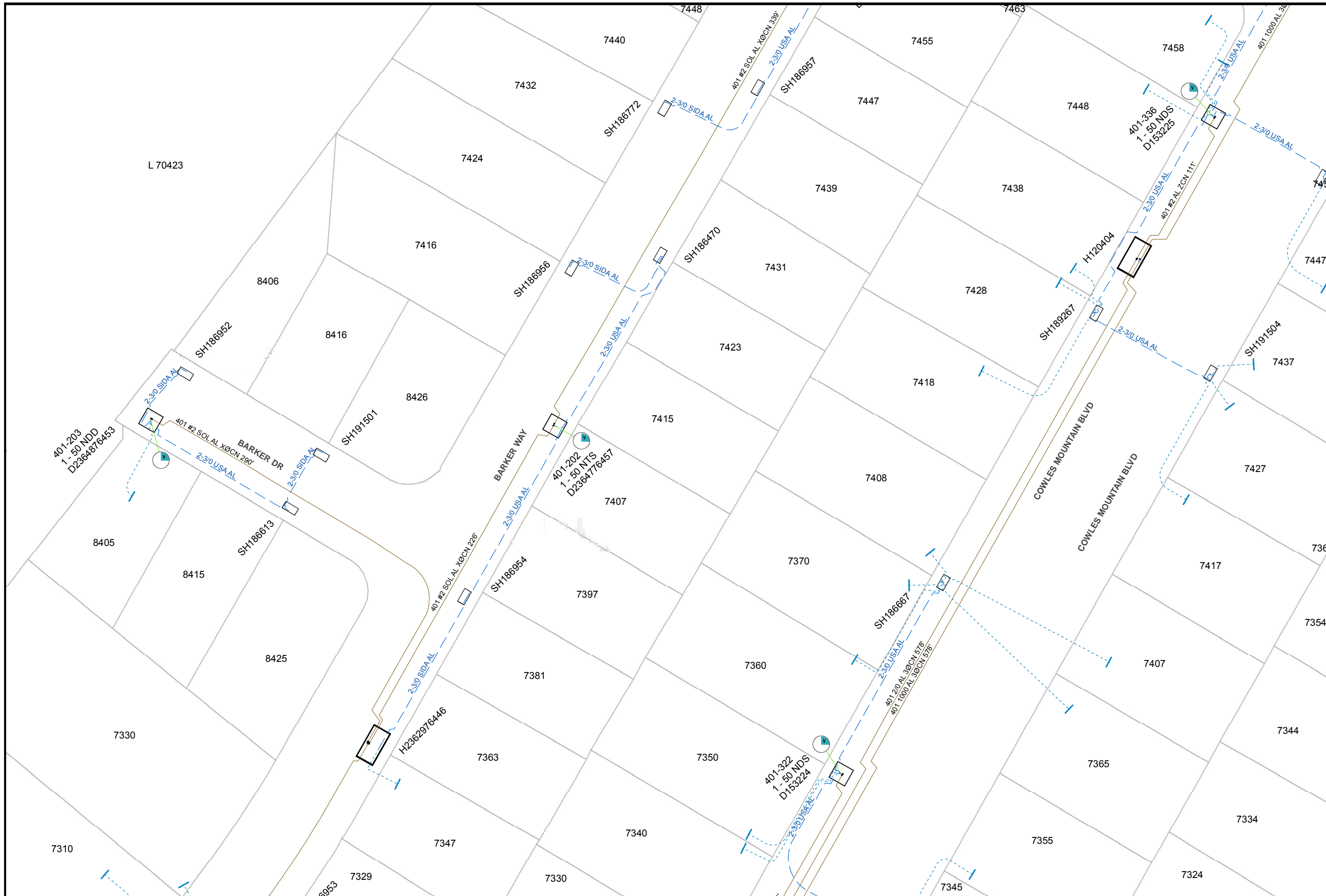
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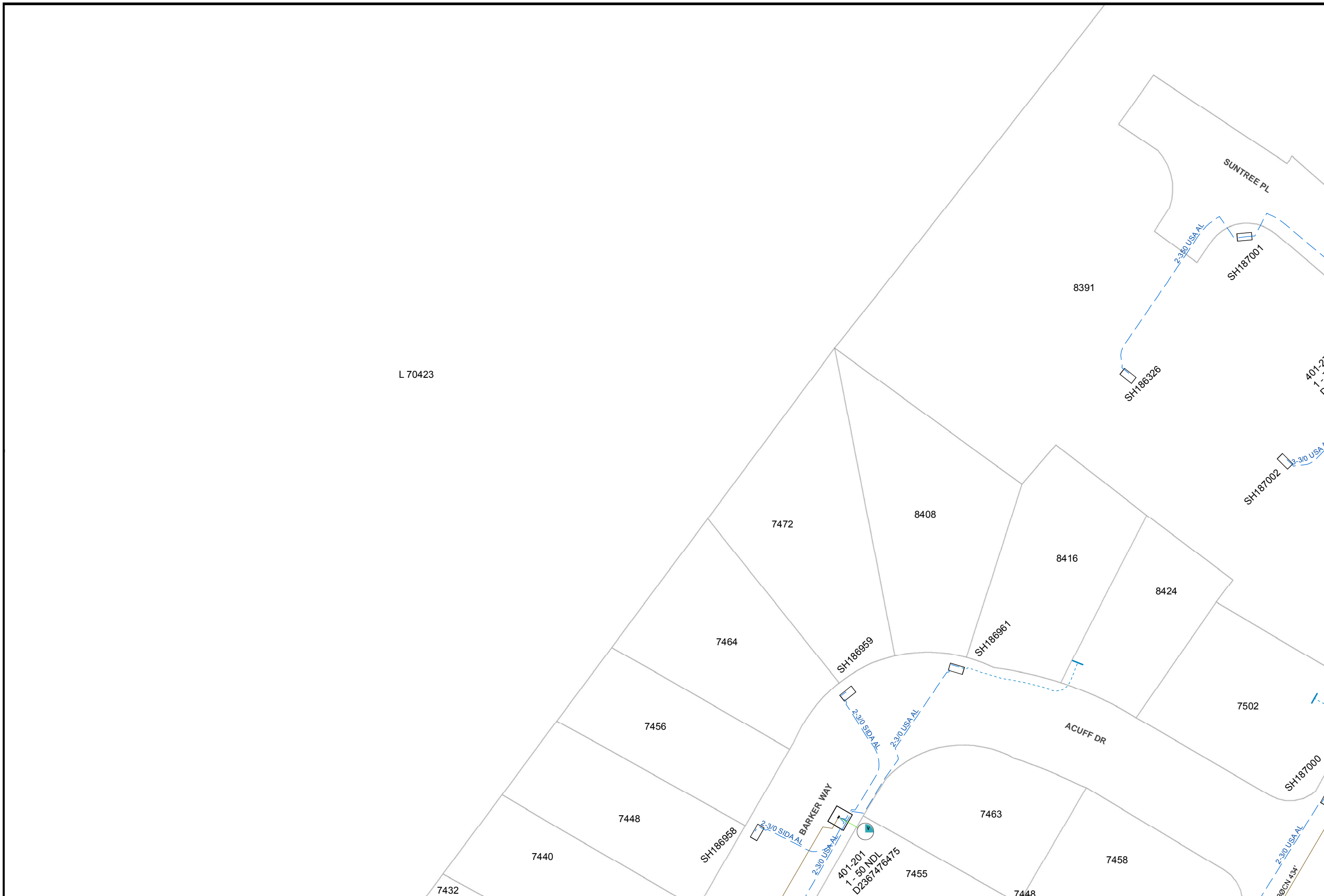
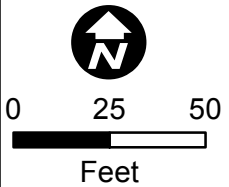
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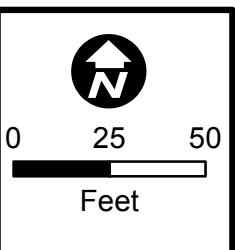
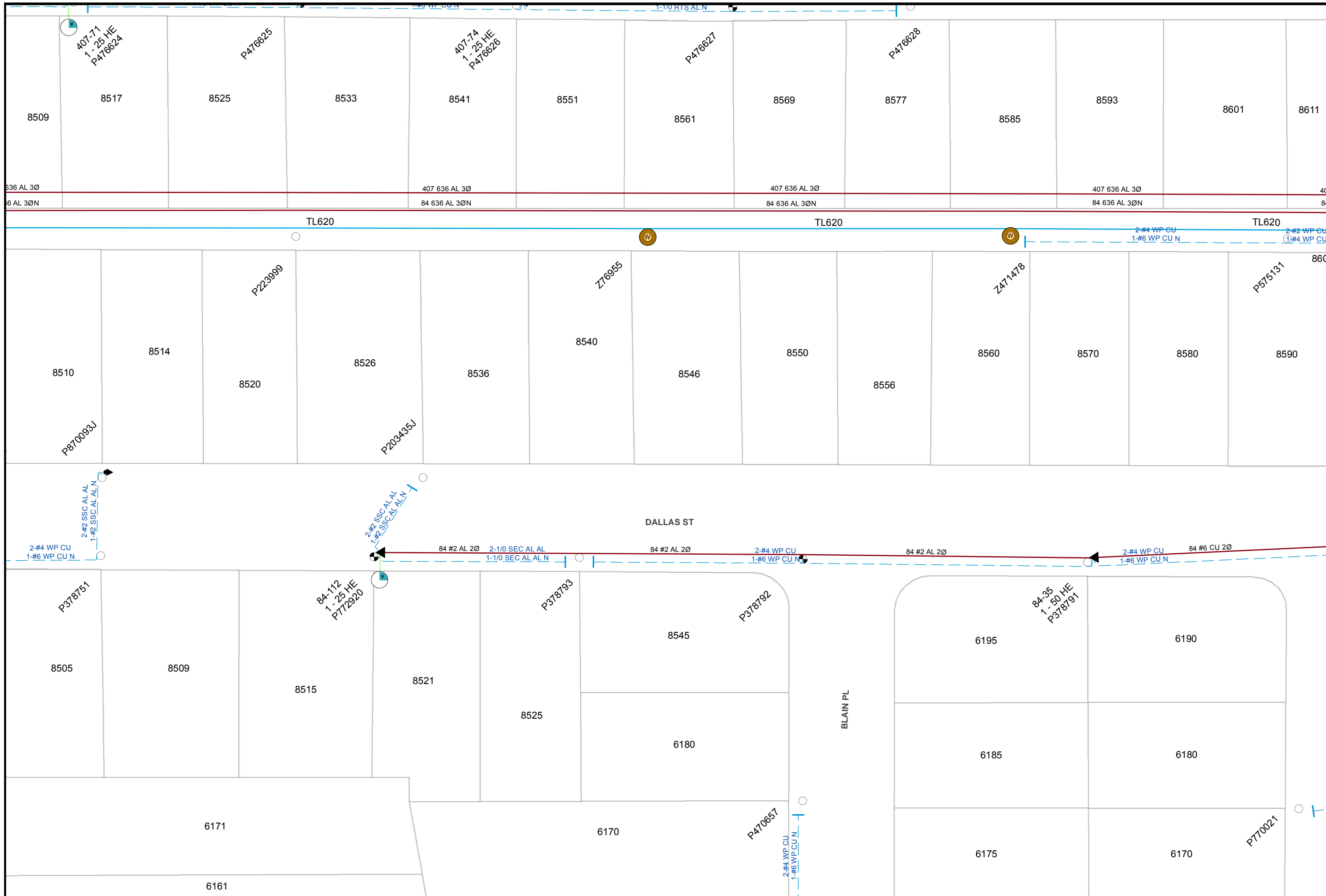
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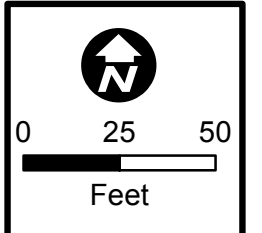


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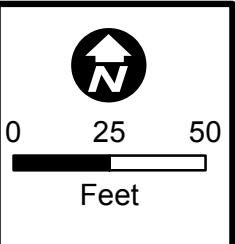


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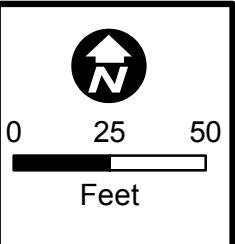


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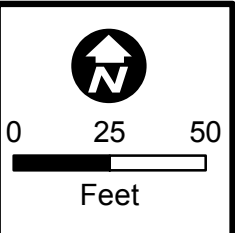
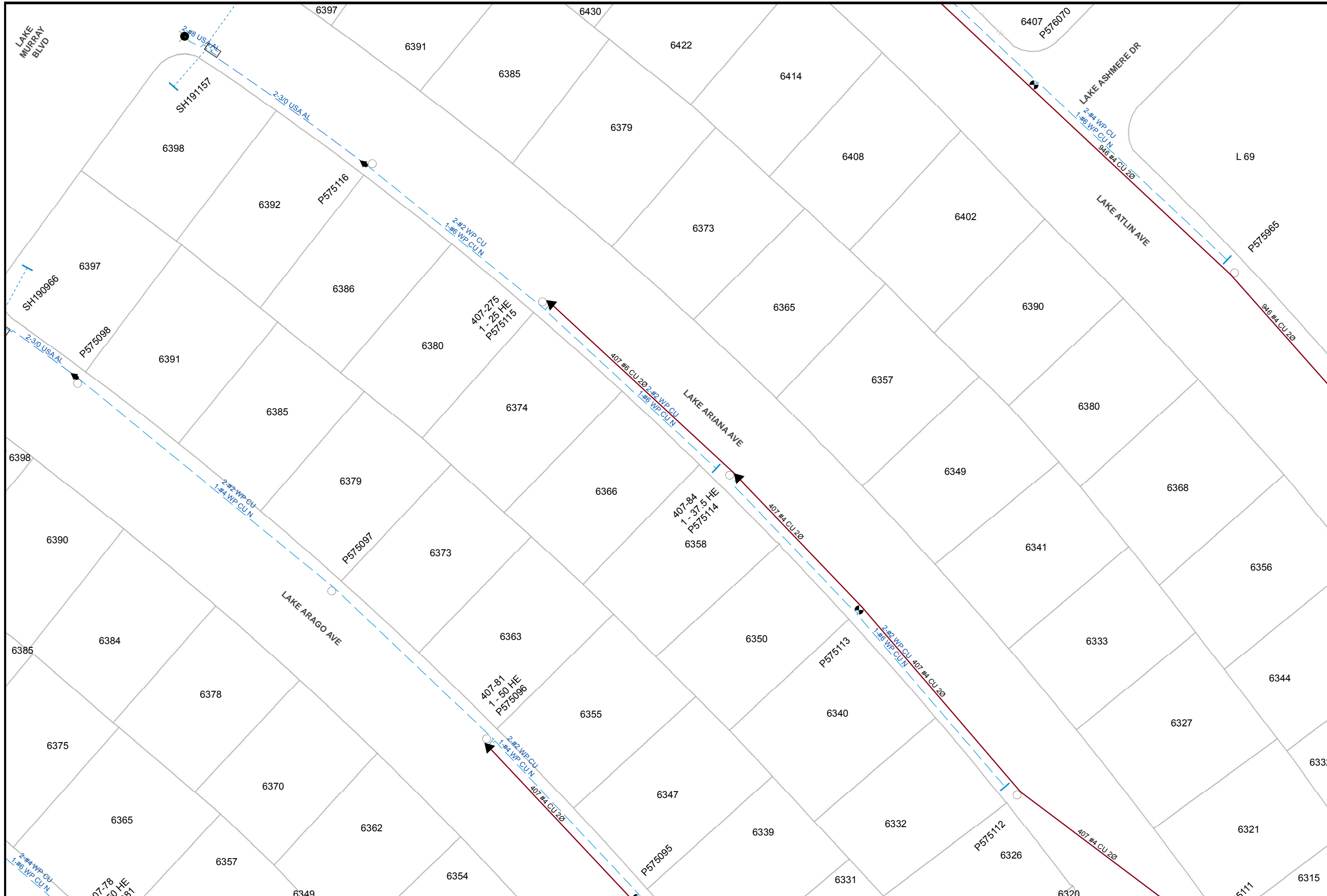
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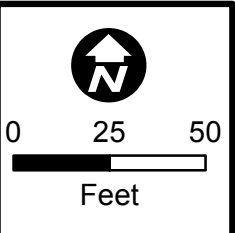
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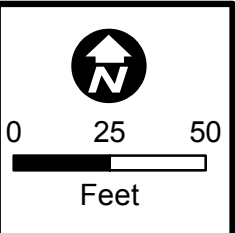
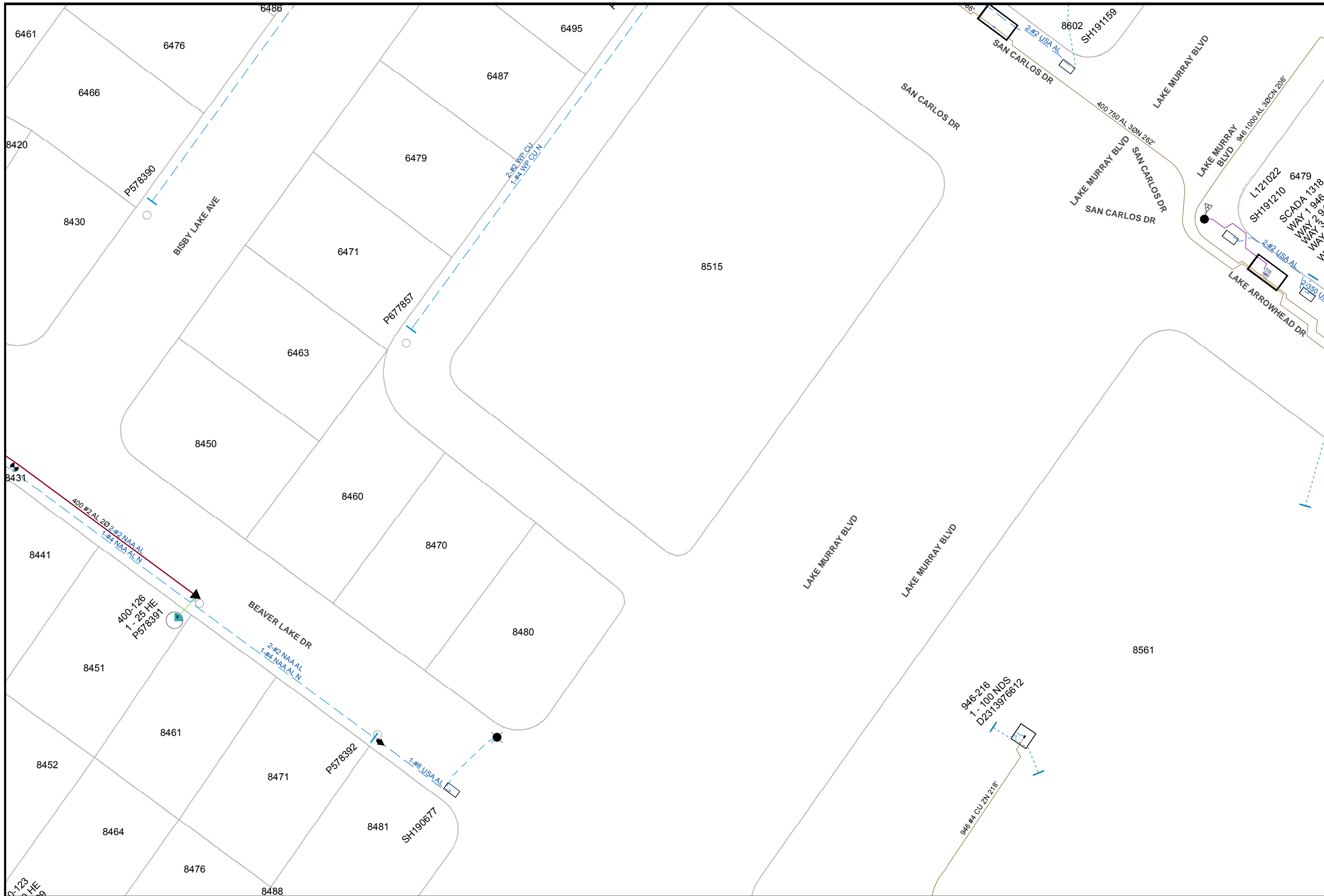


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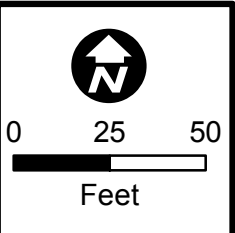
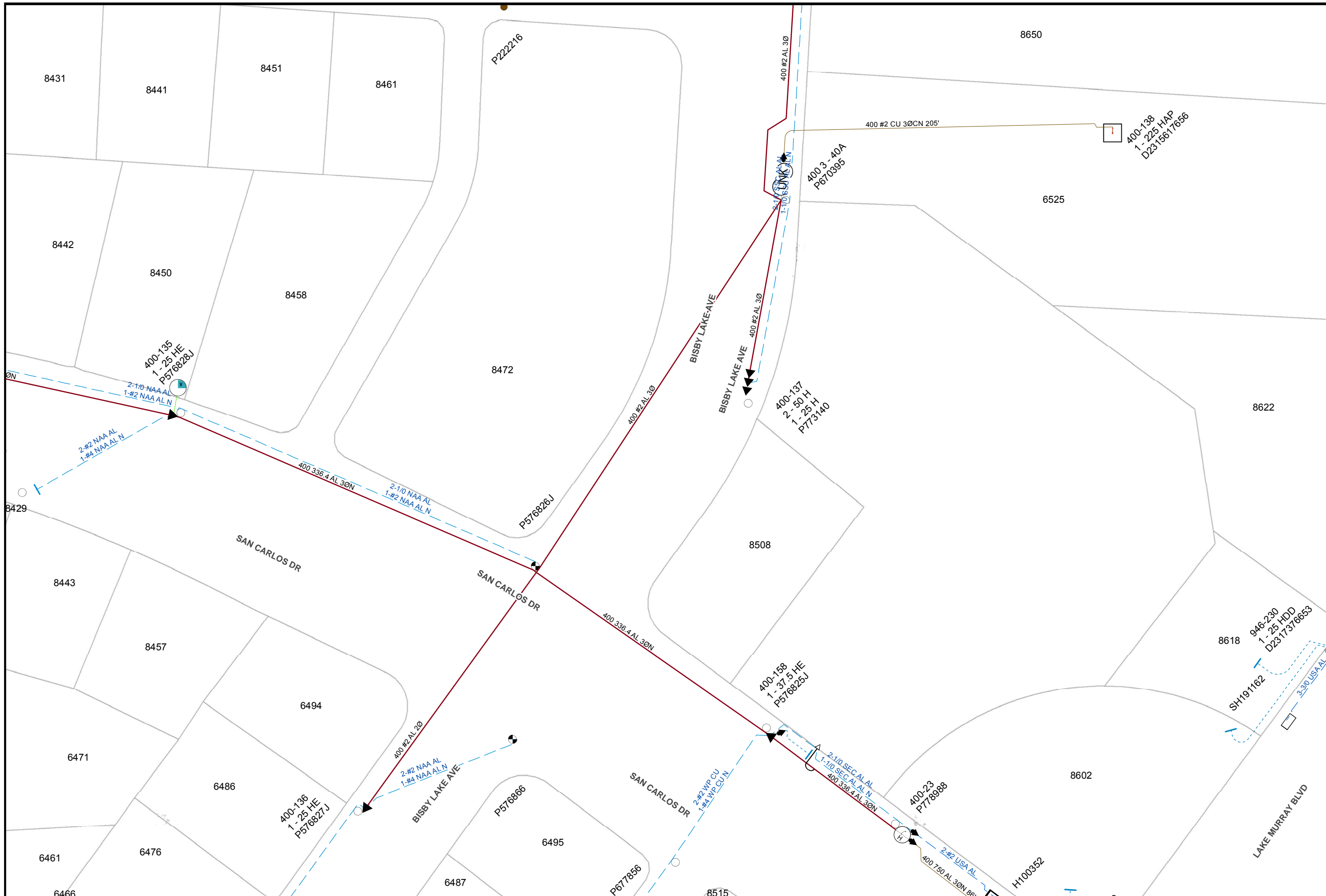


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16355-119060



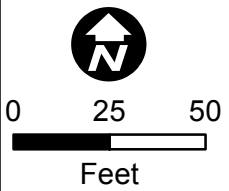
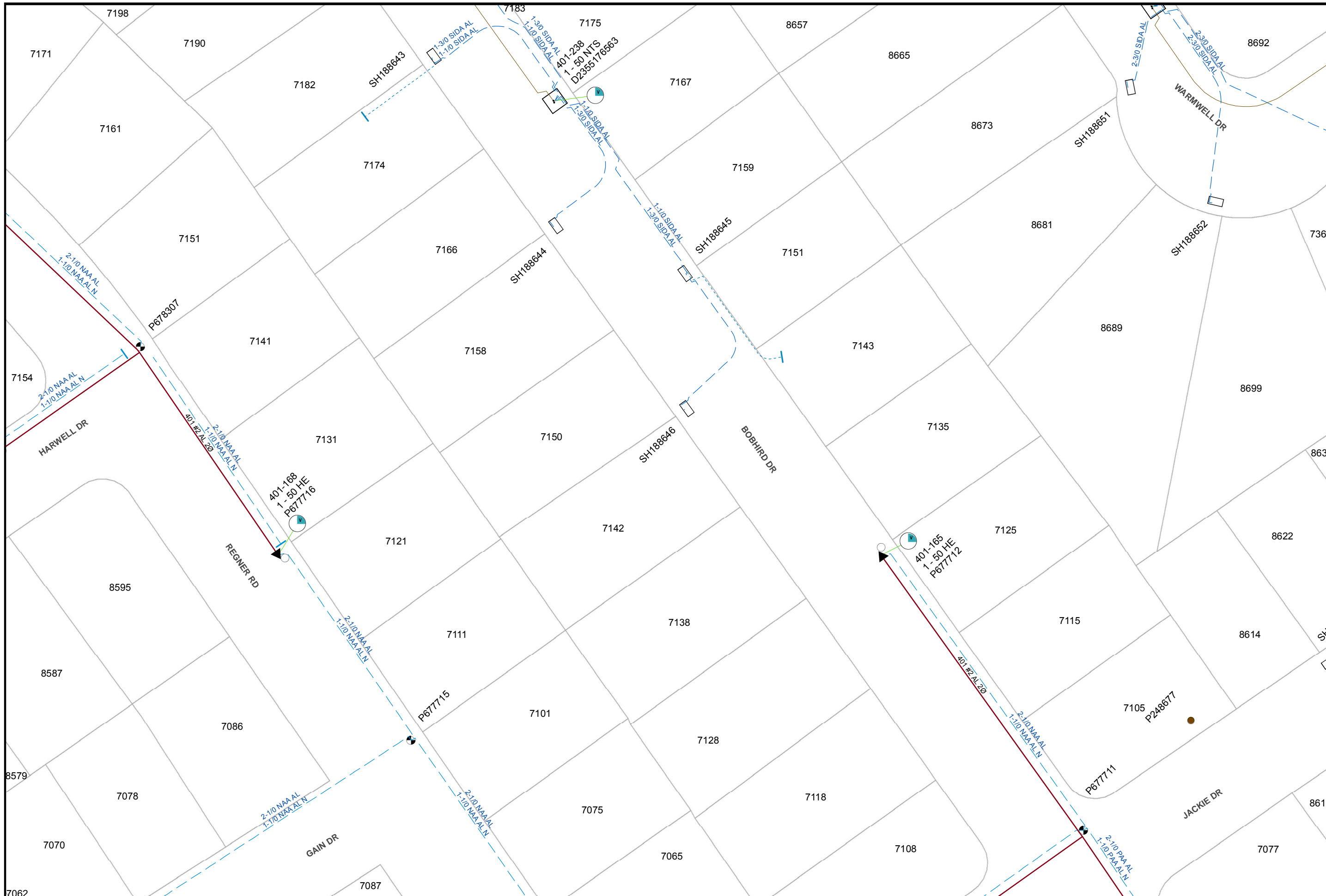
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Map Type: <b>Electric Asset Map</b>
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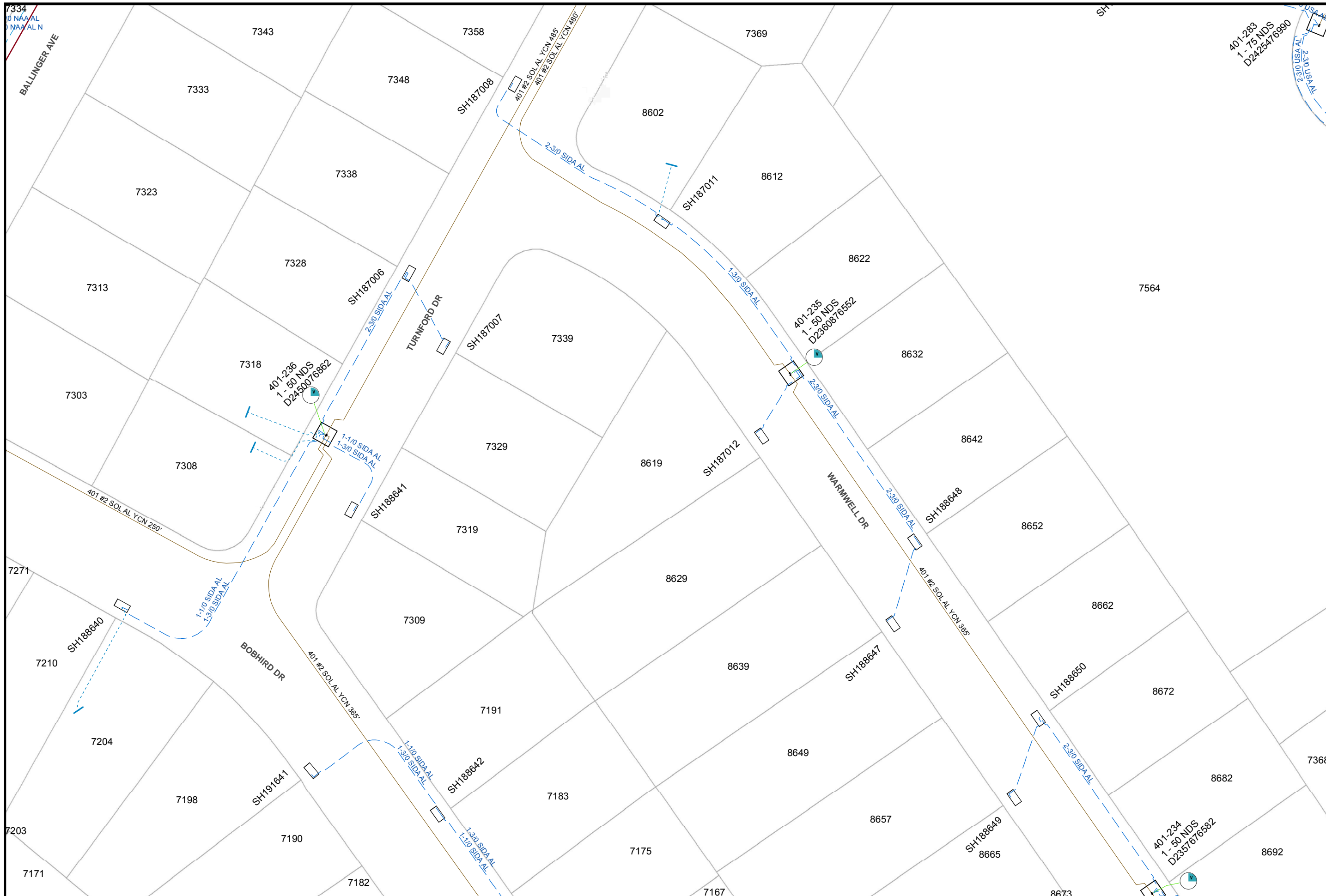
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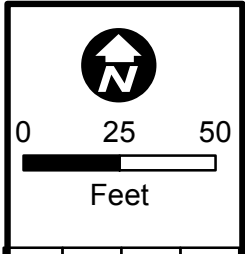
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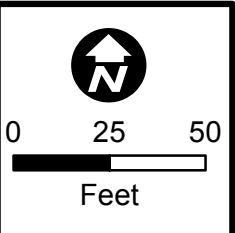
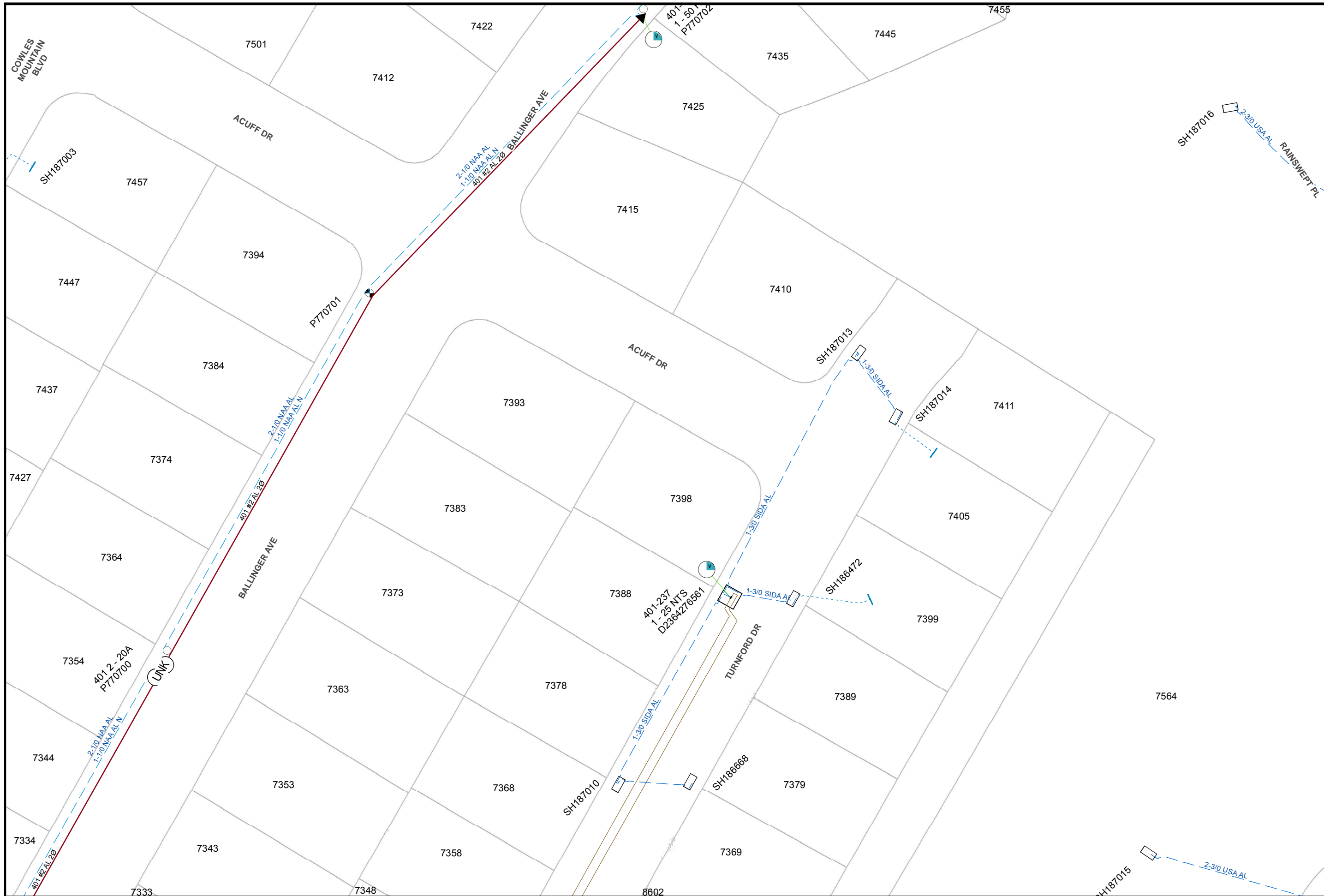
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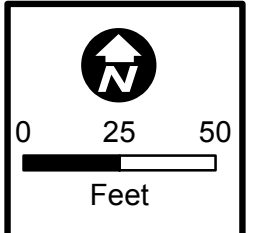
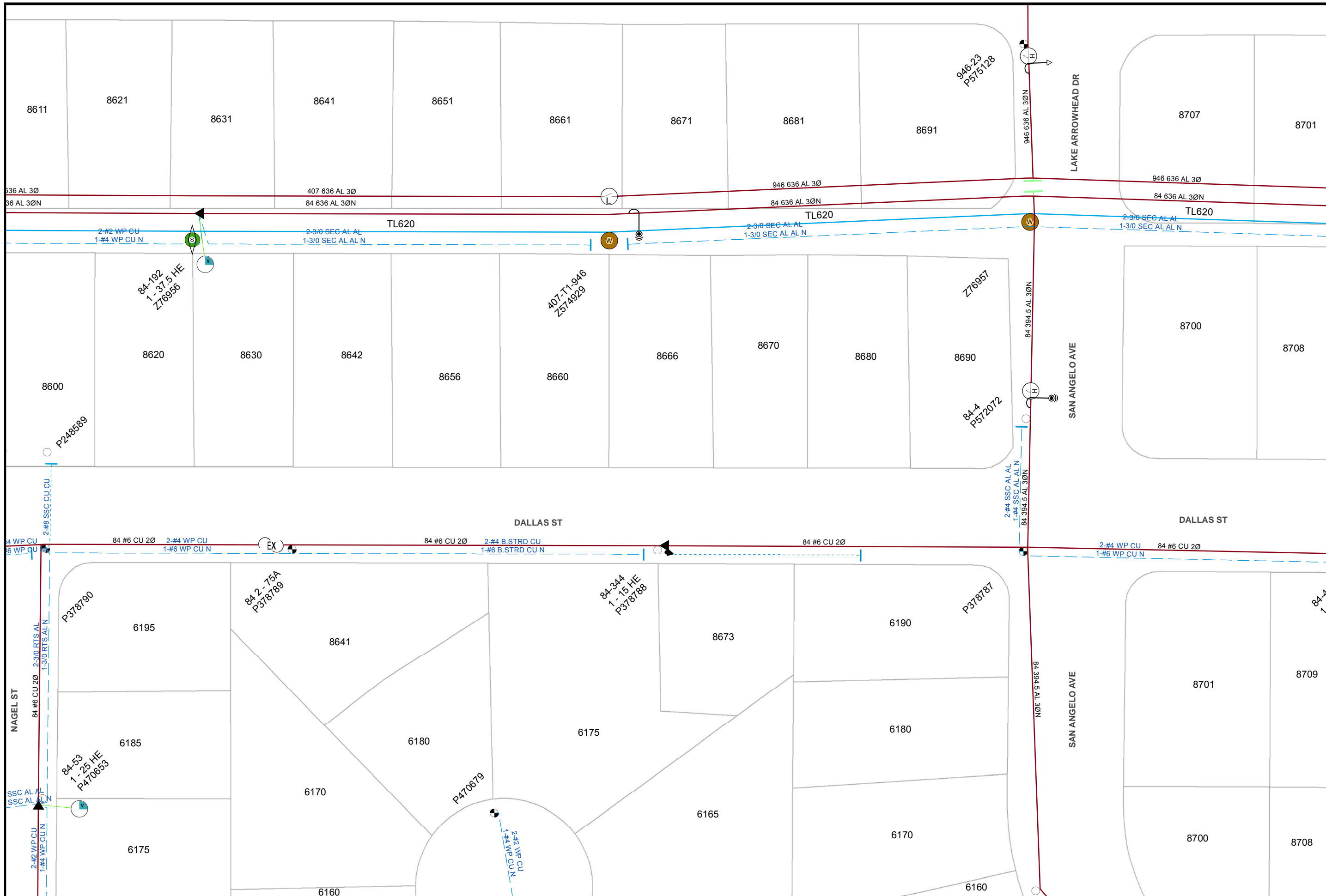
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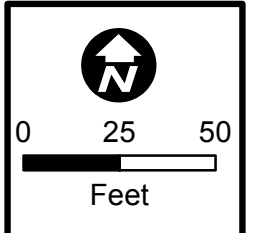
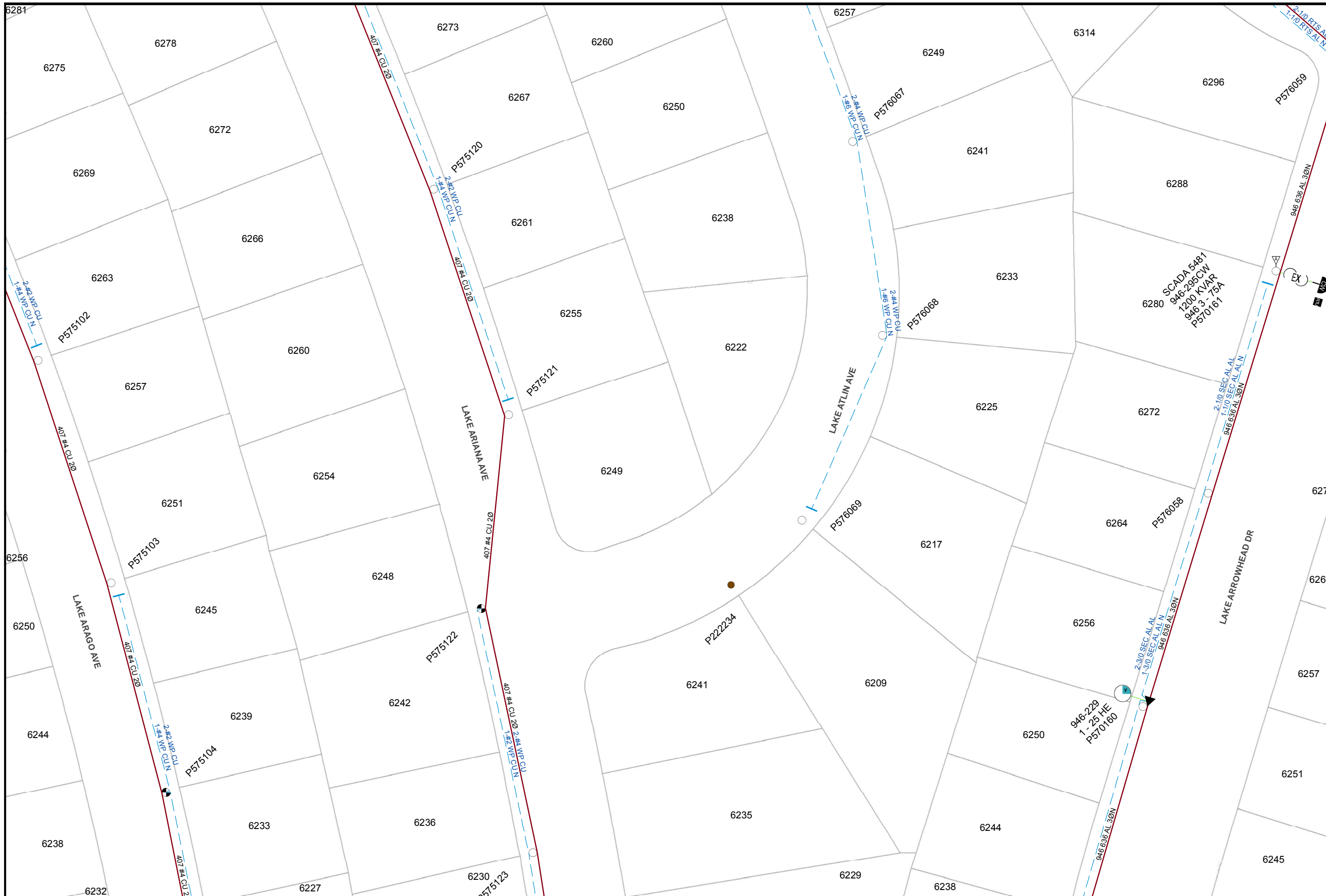
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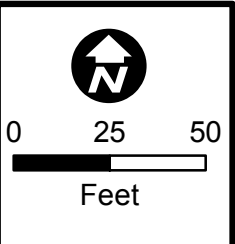


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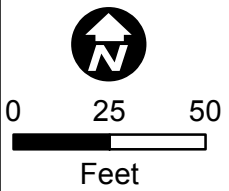
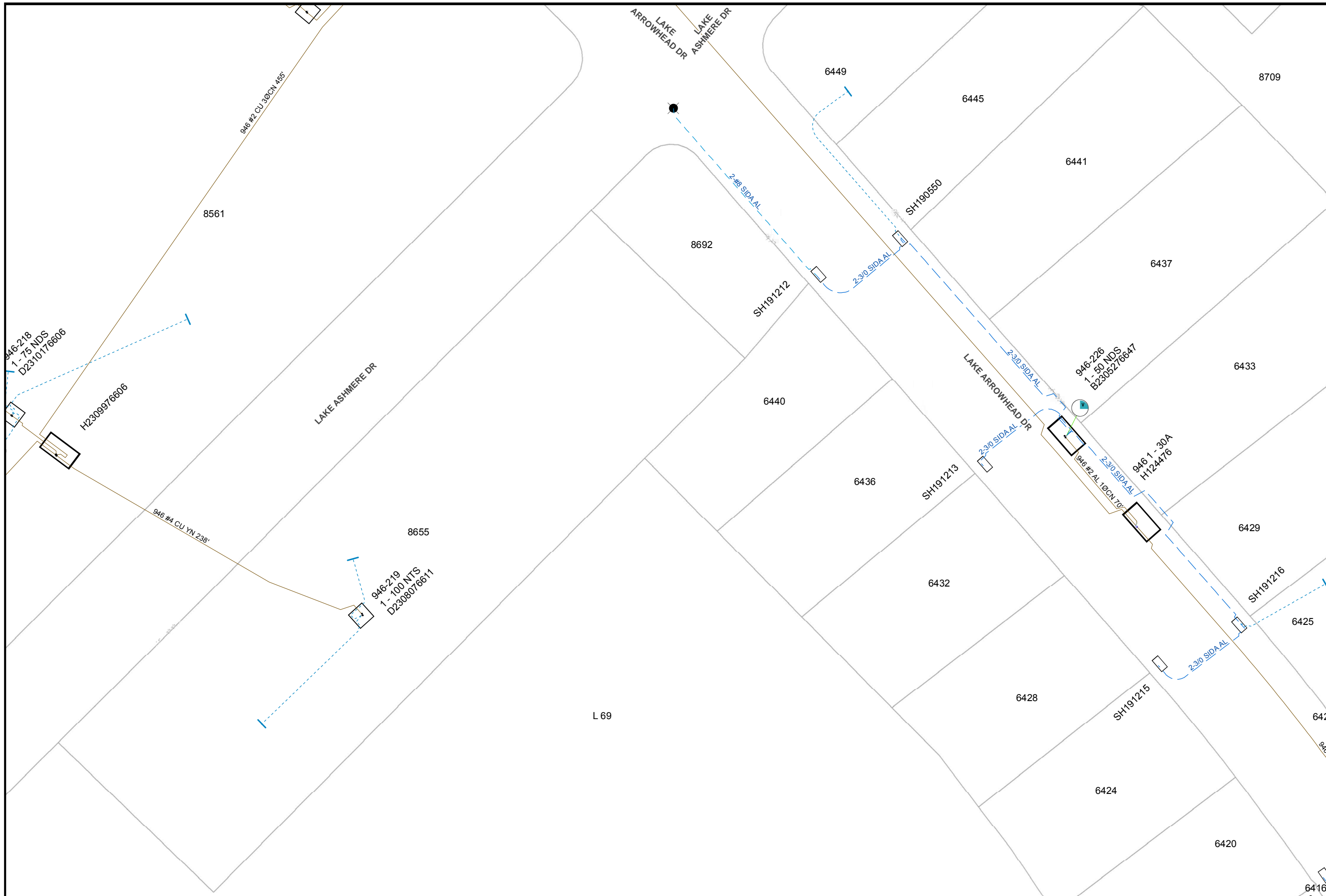
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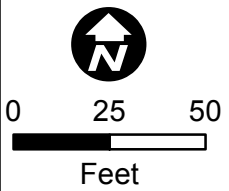
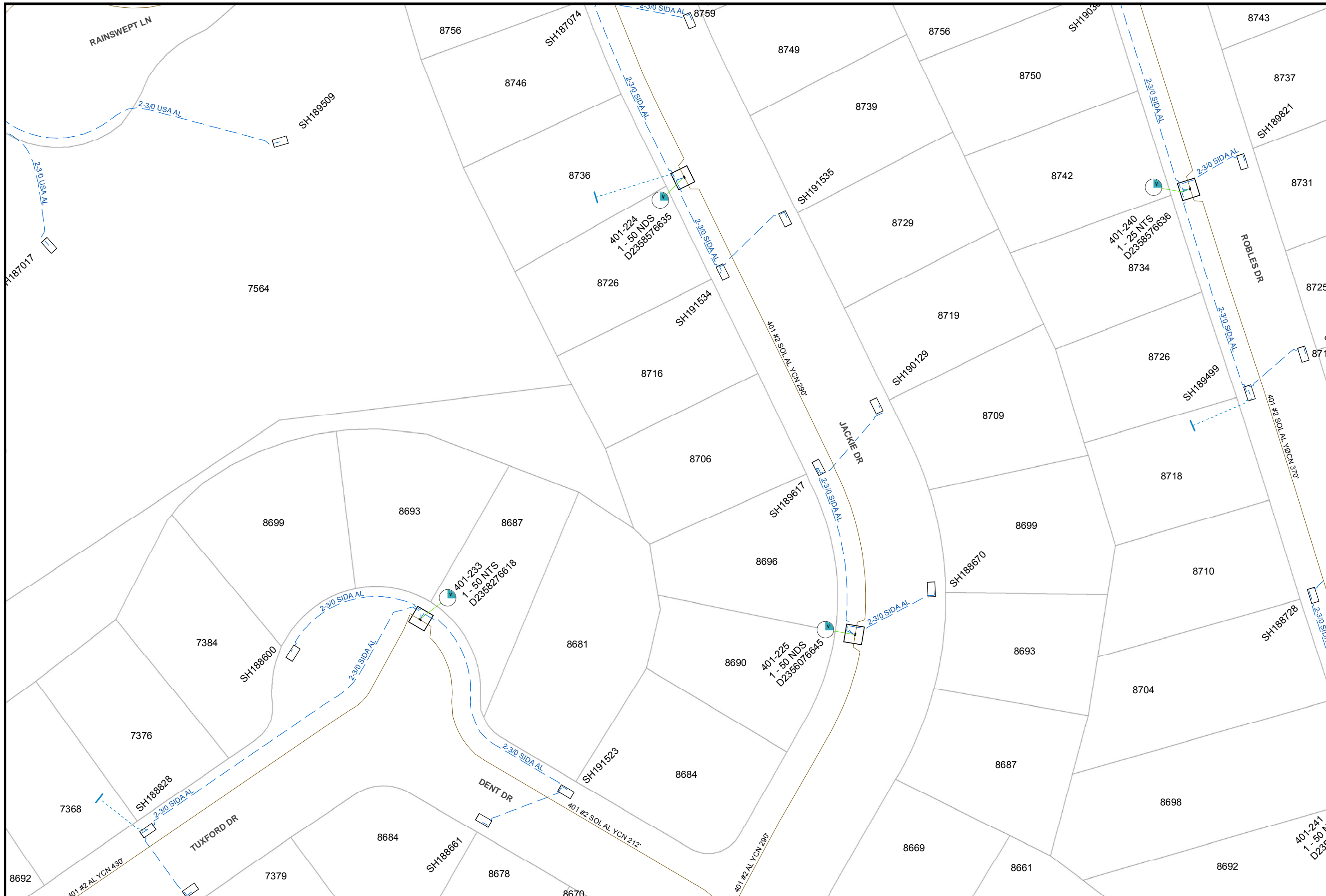












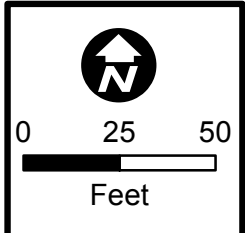
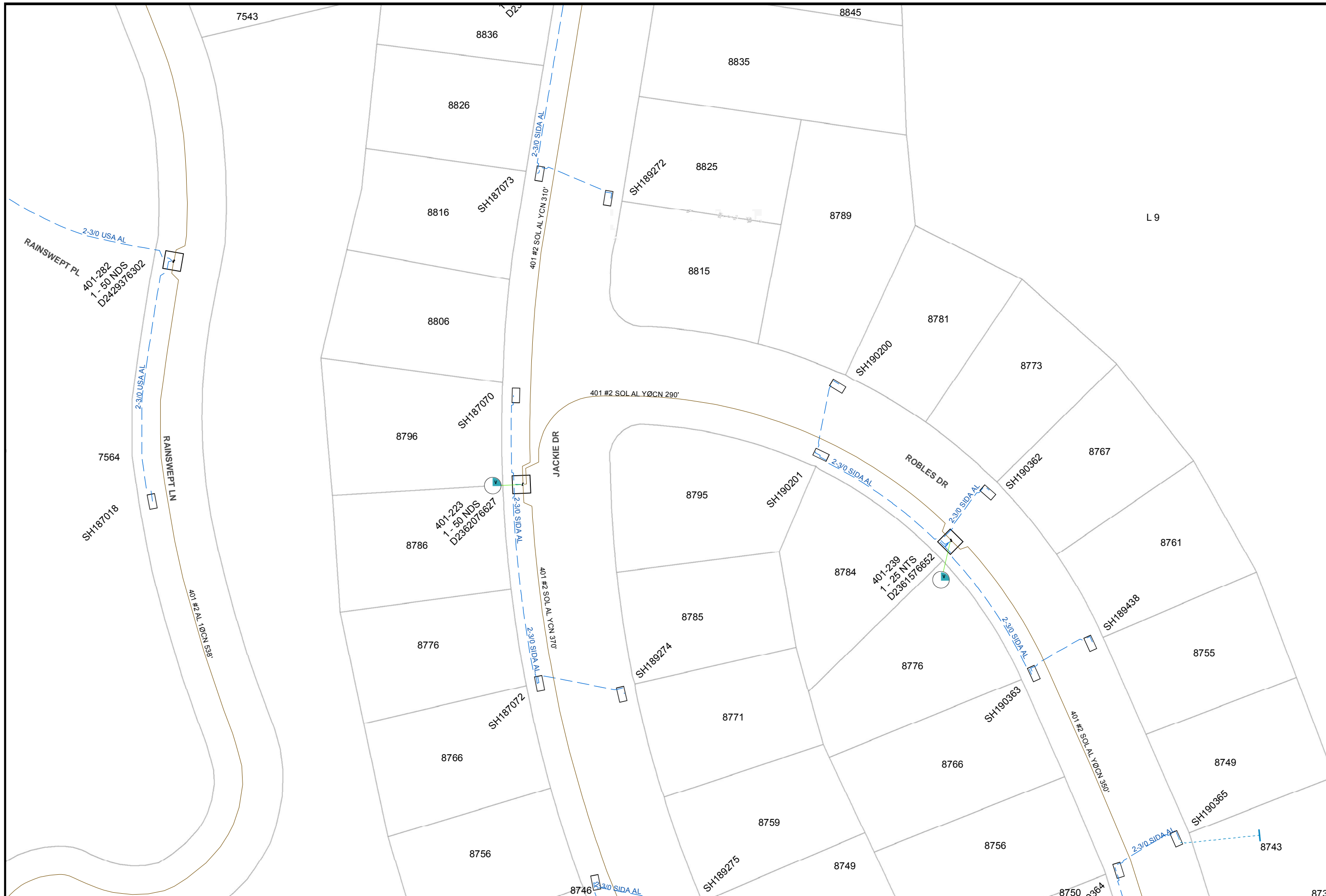
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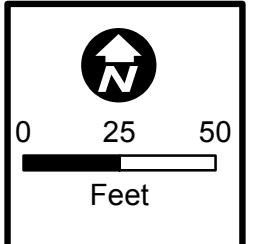
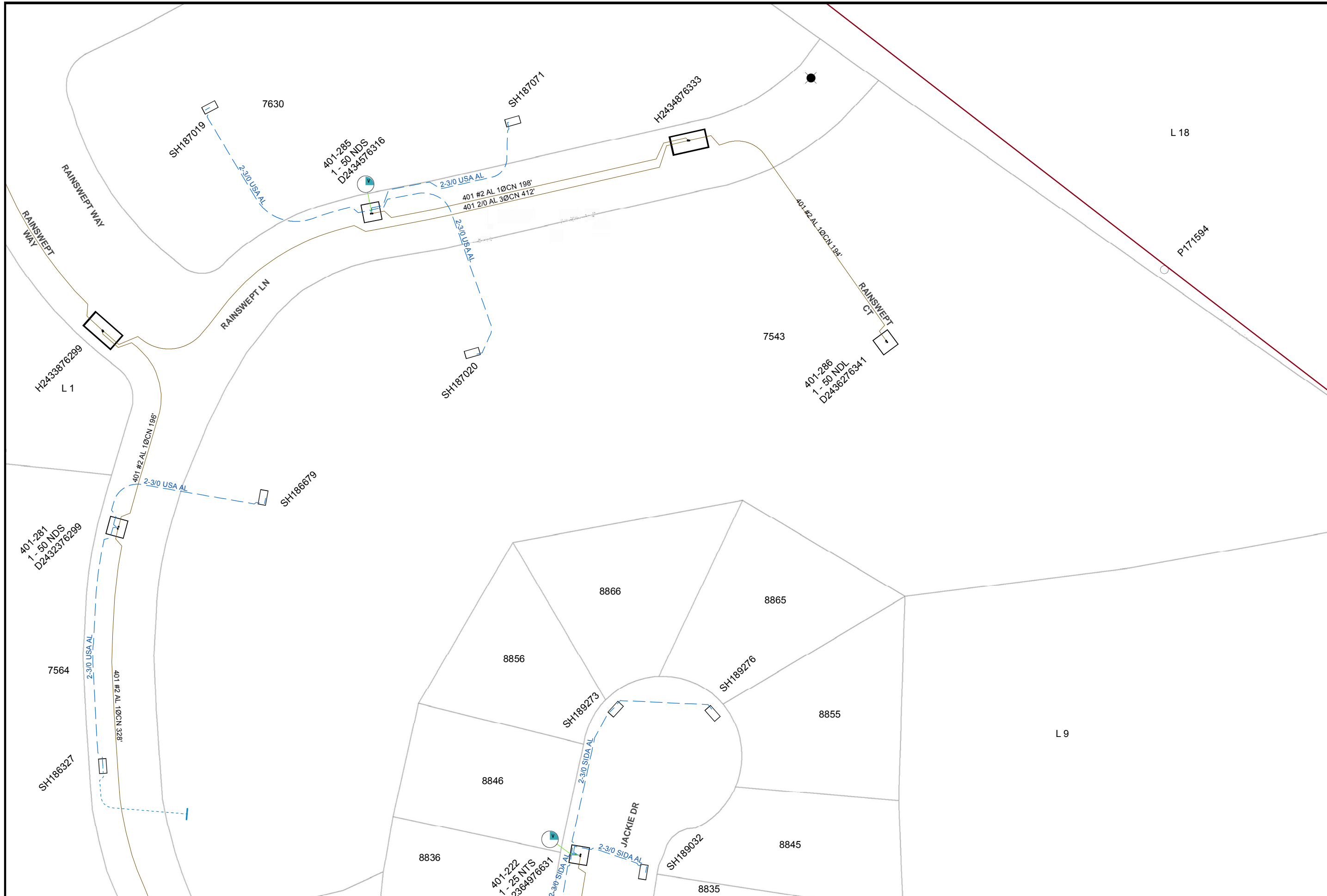
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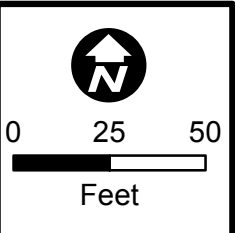
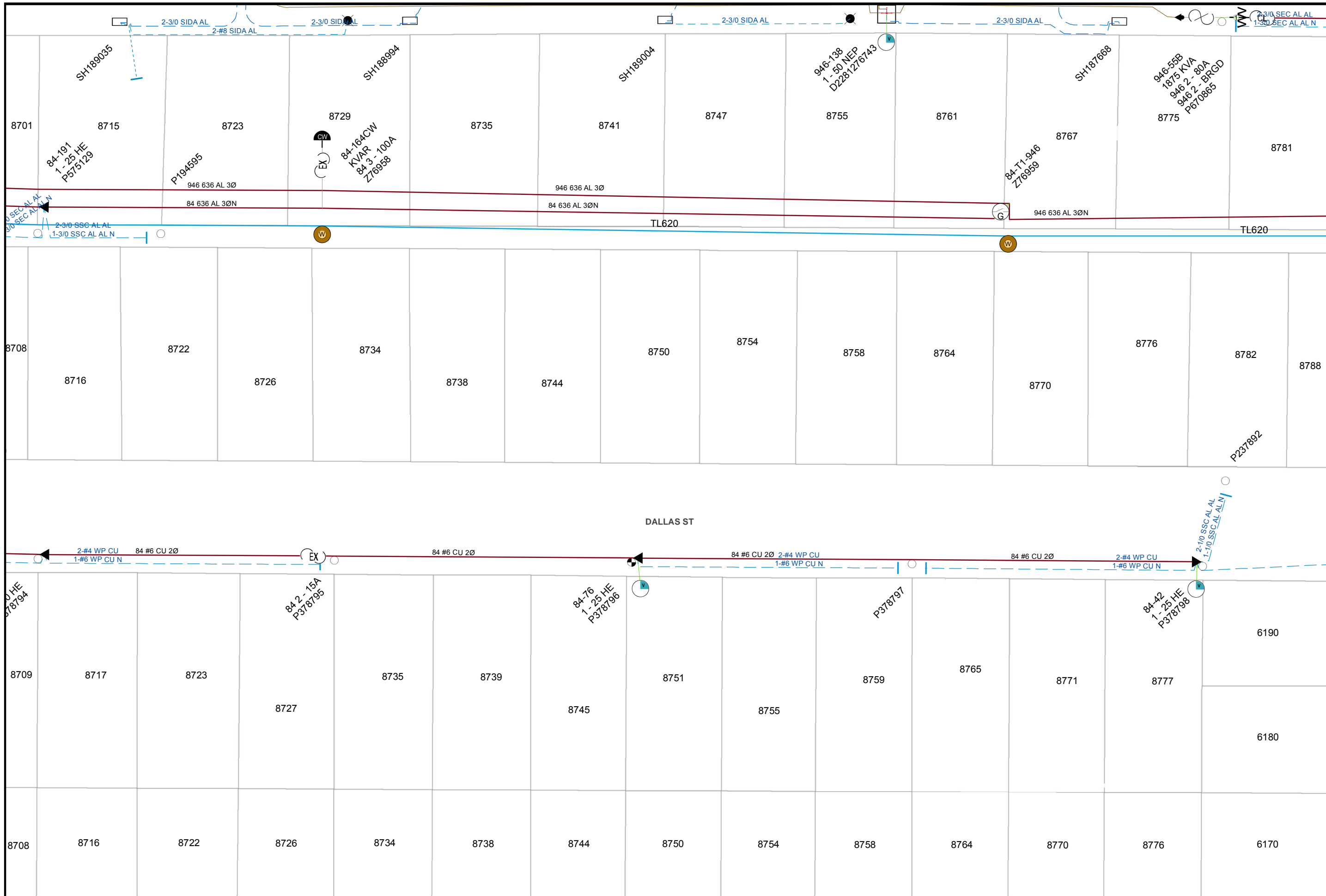
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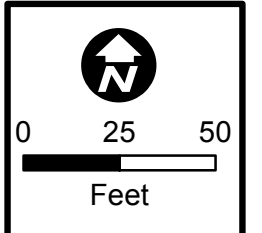
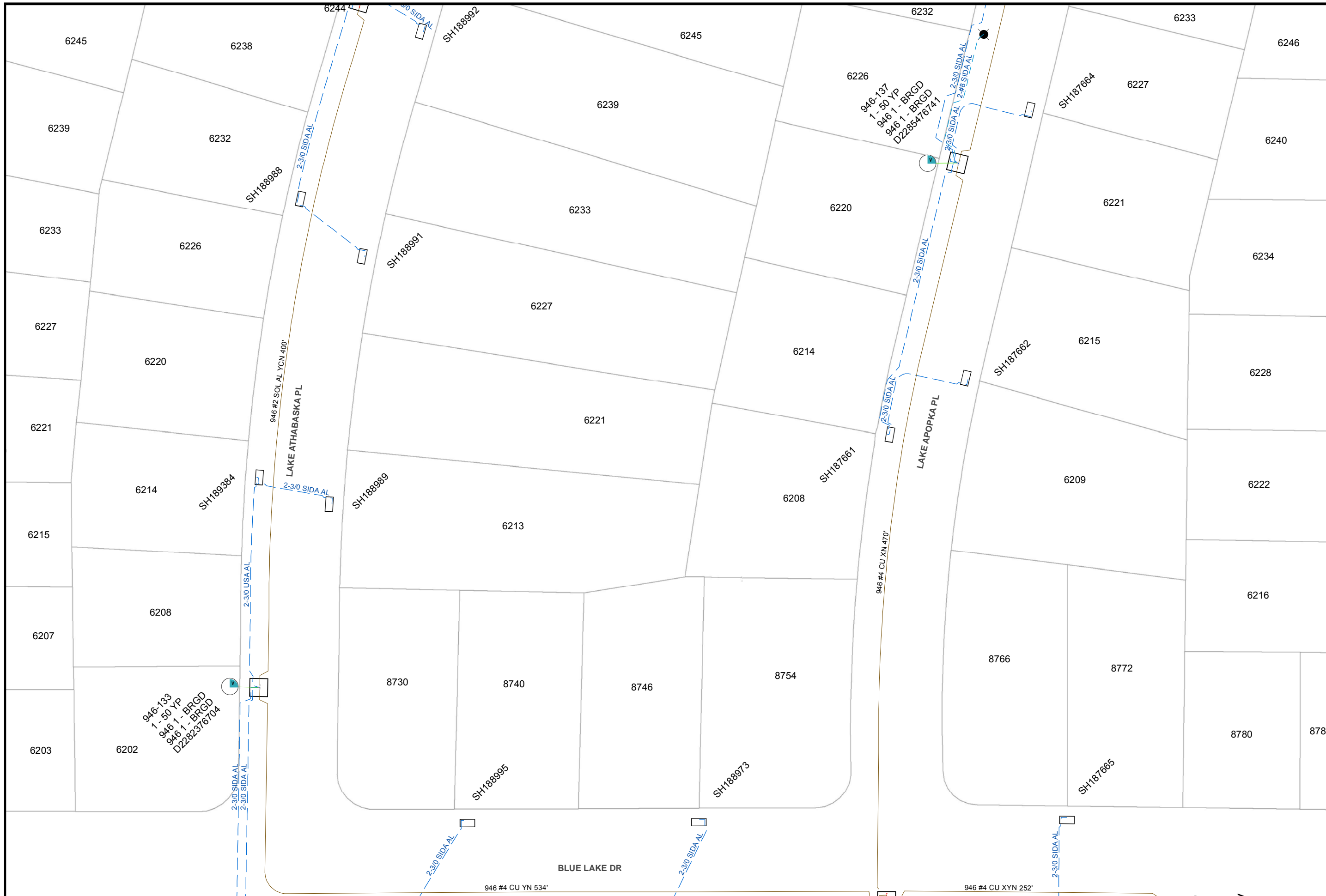


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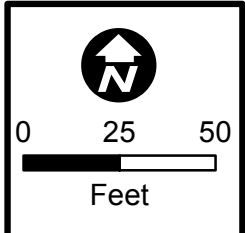
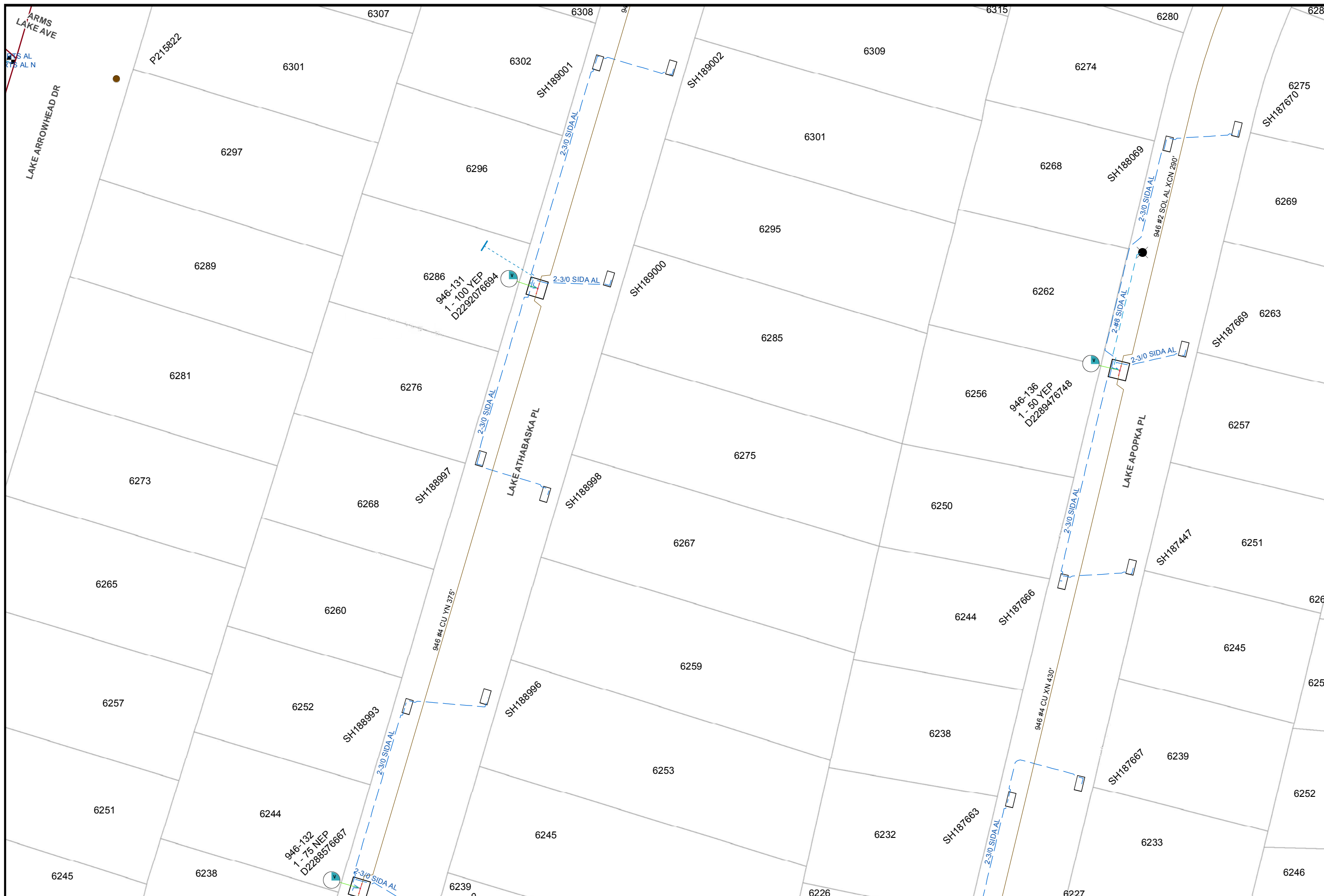
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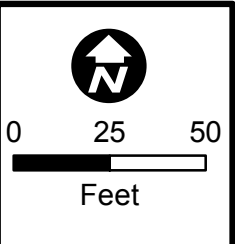
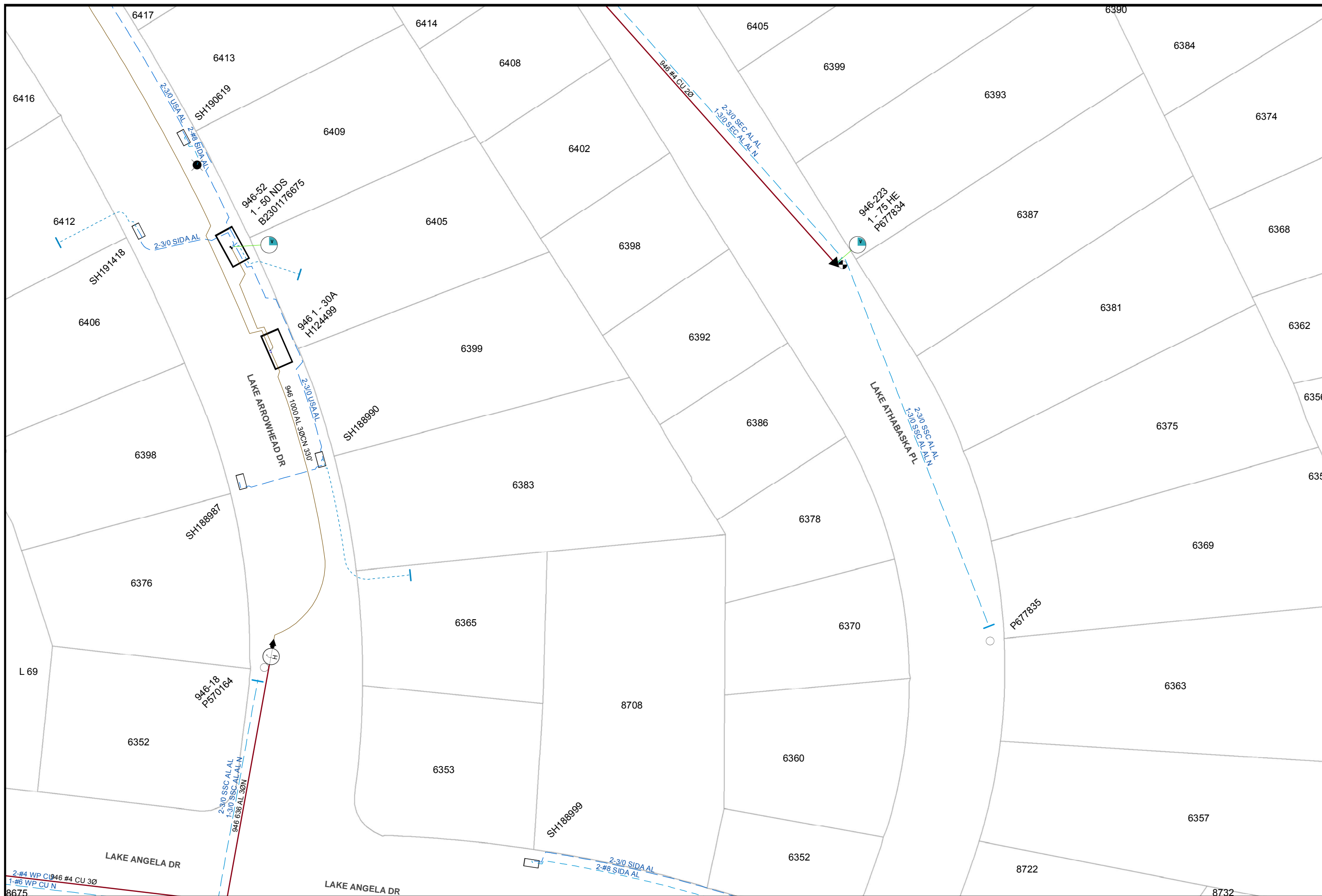
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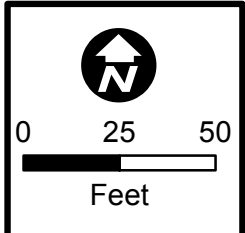
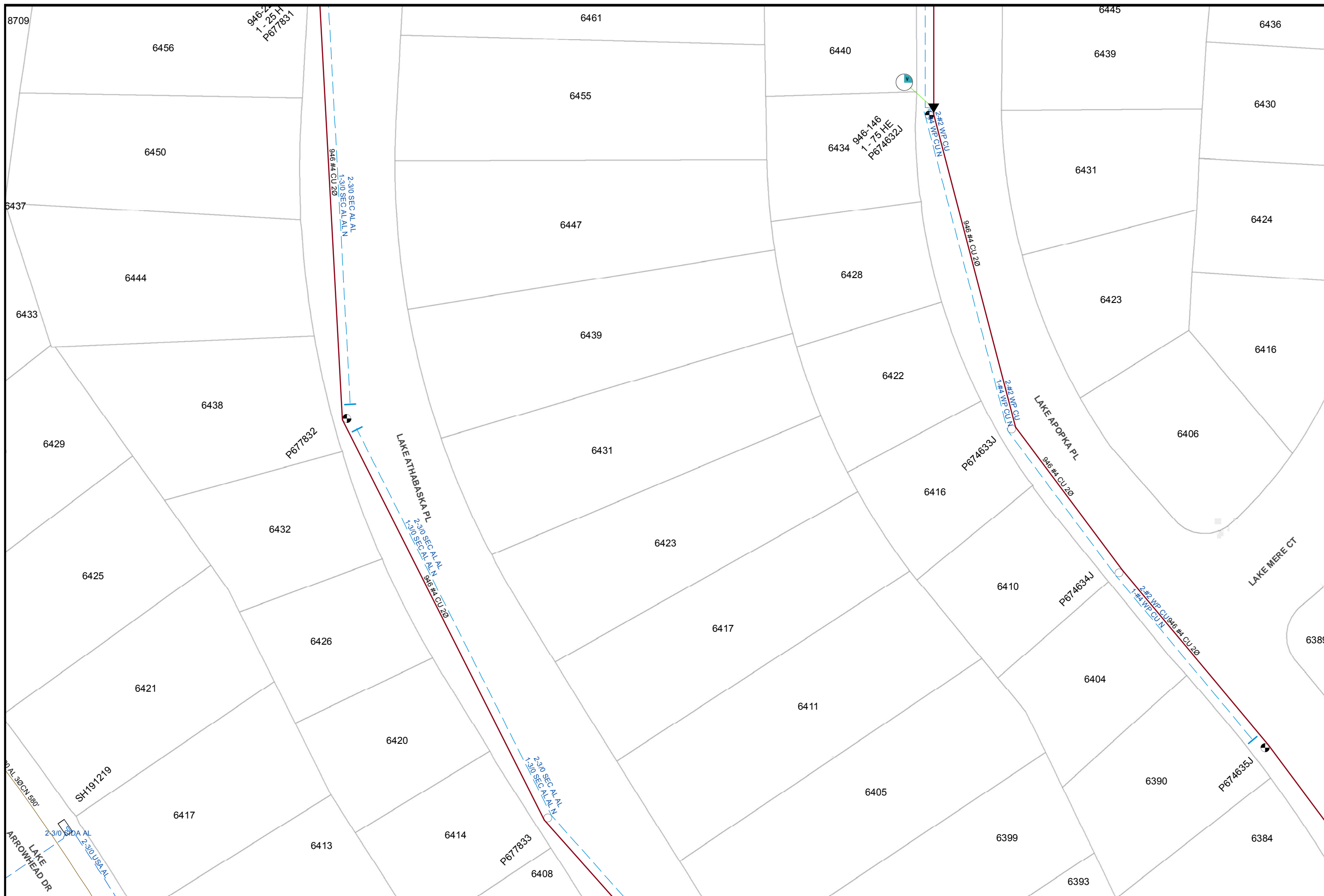
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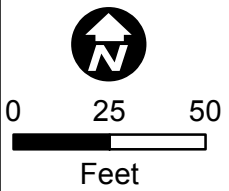
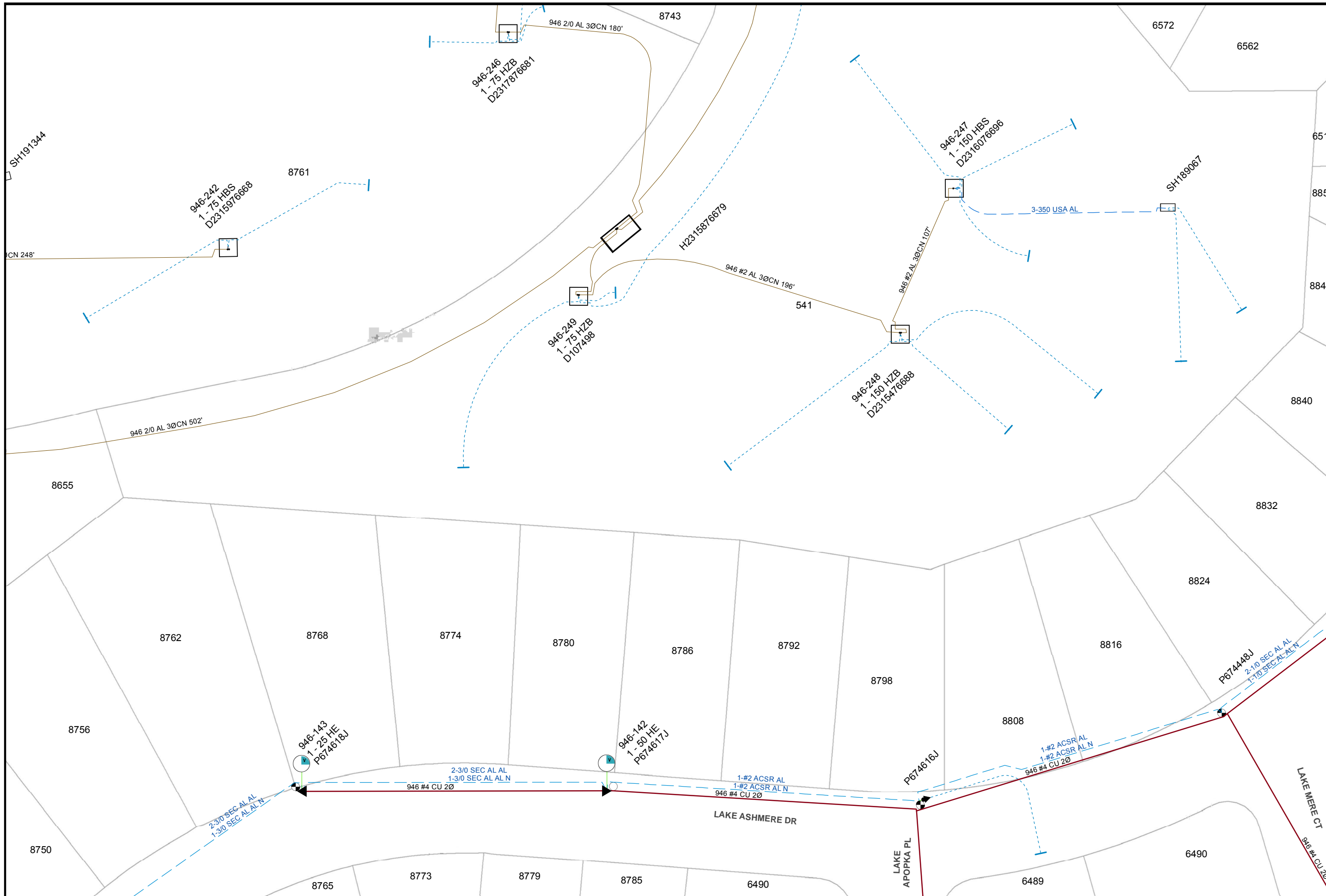
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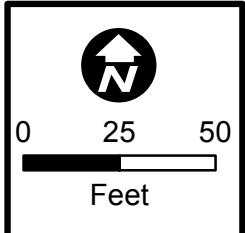
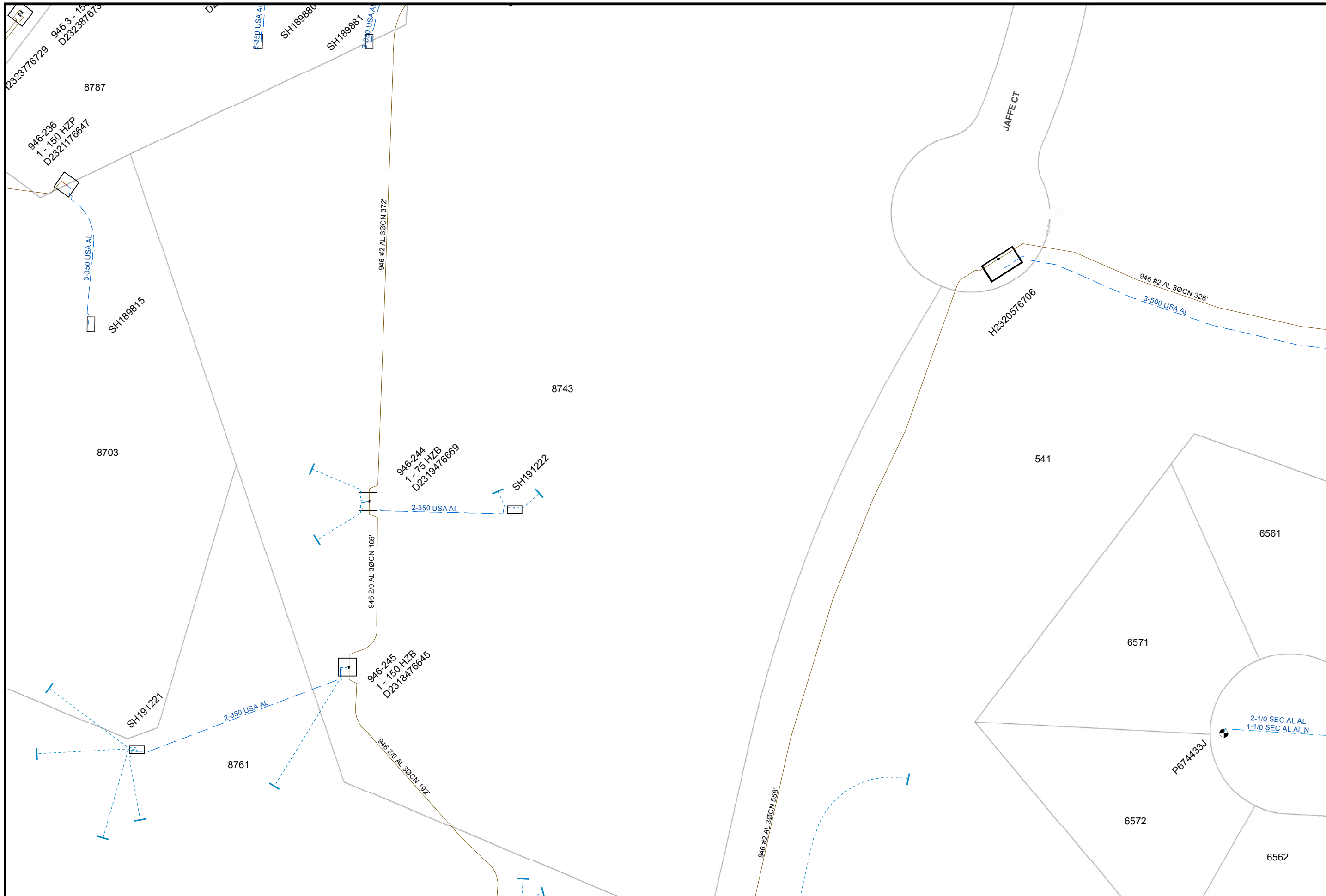




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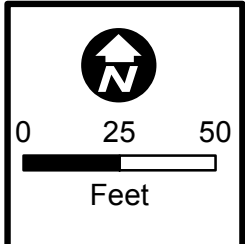
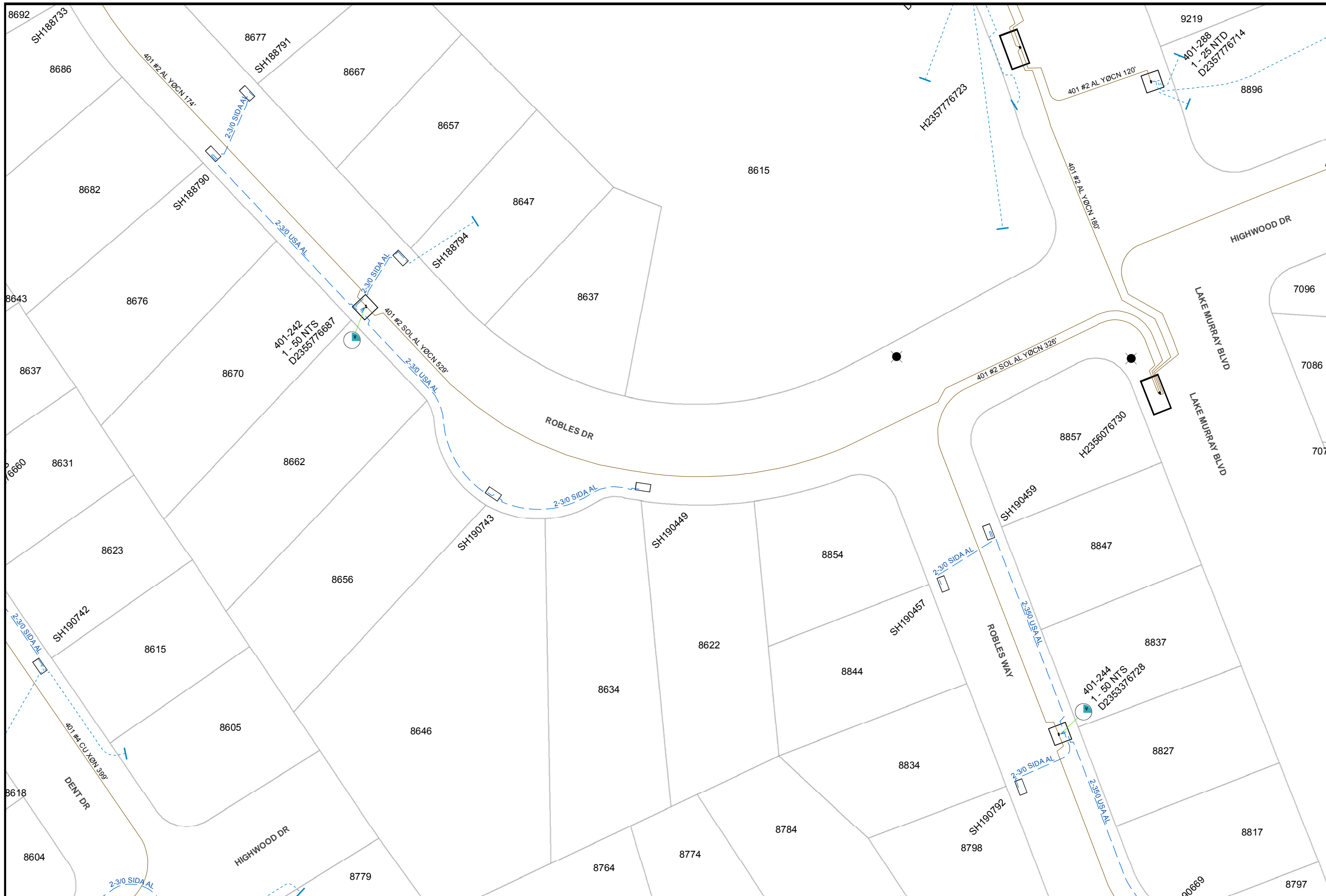


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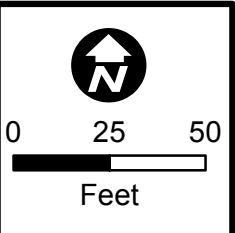
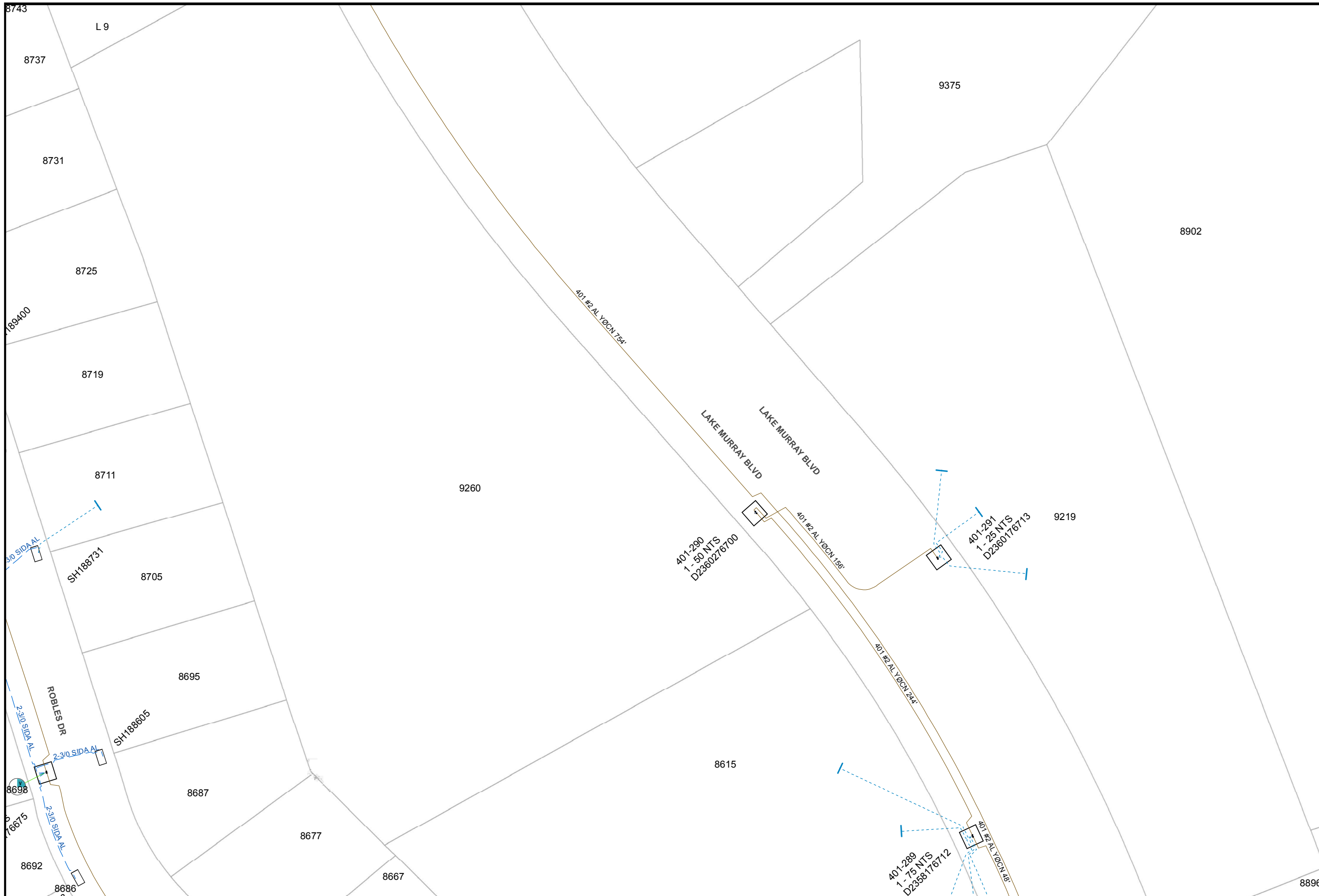
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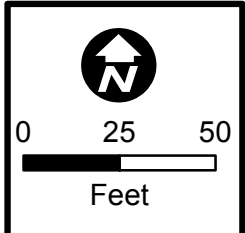
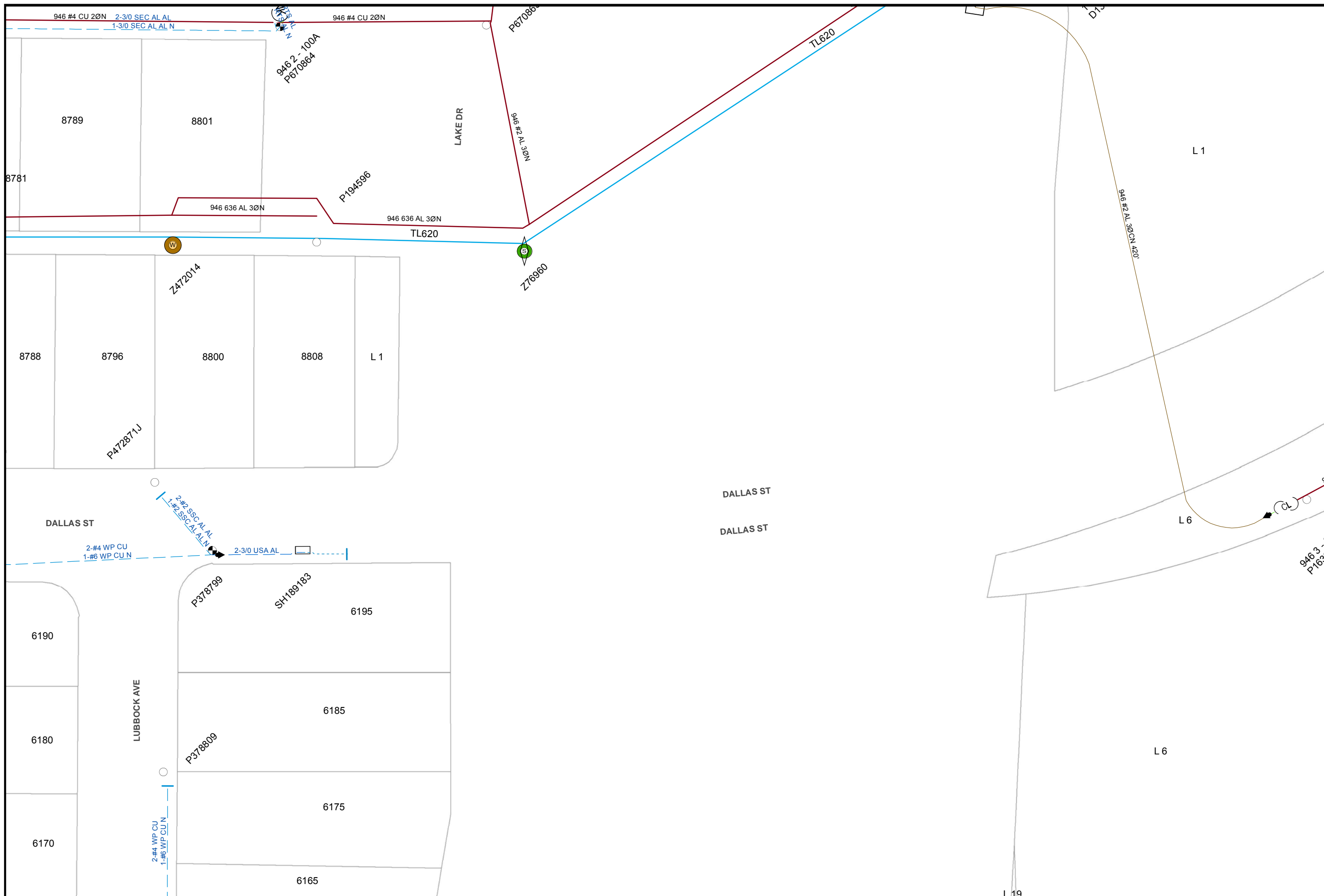
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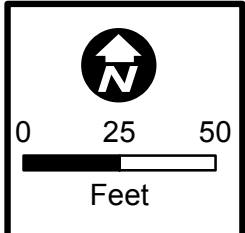
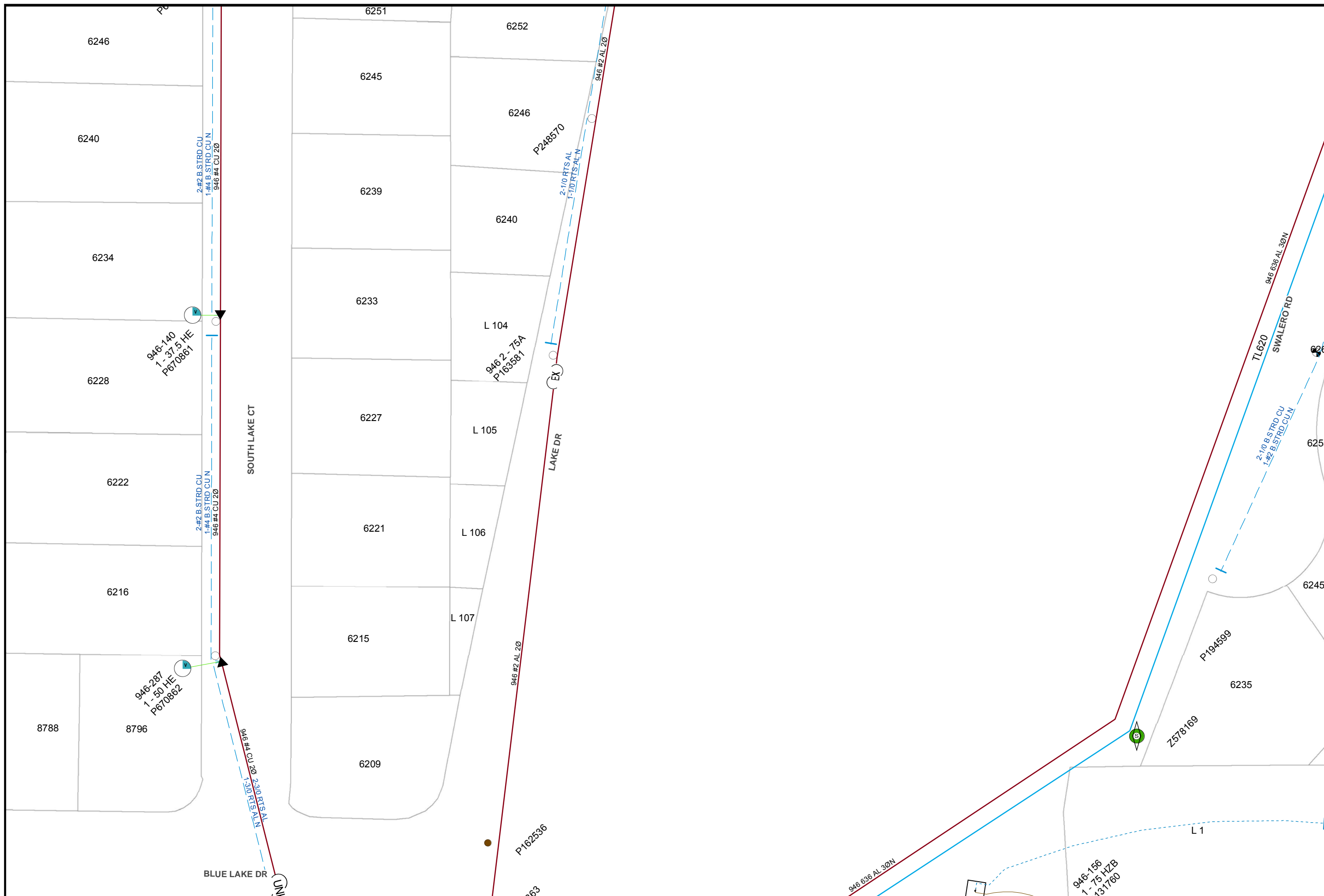
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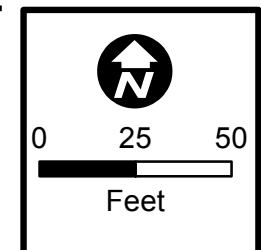
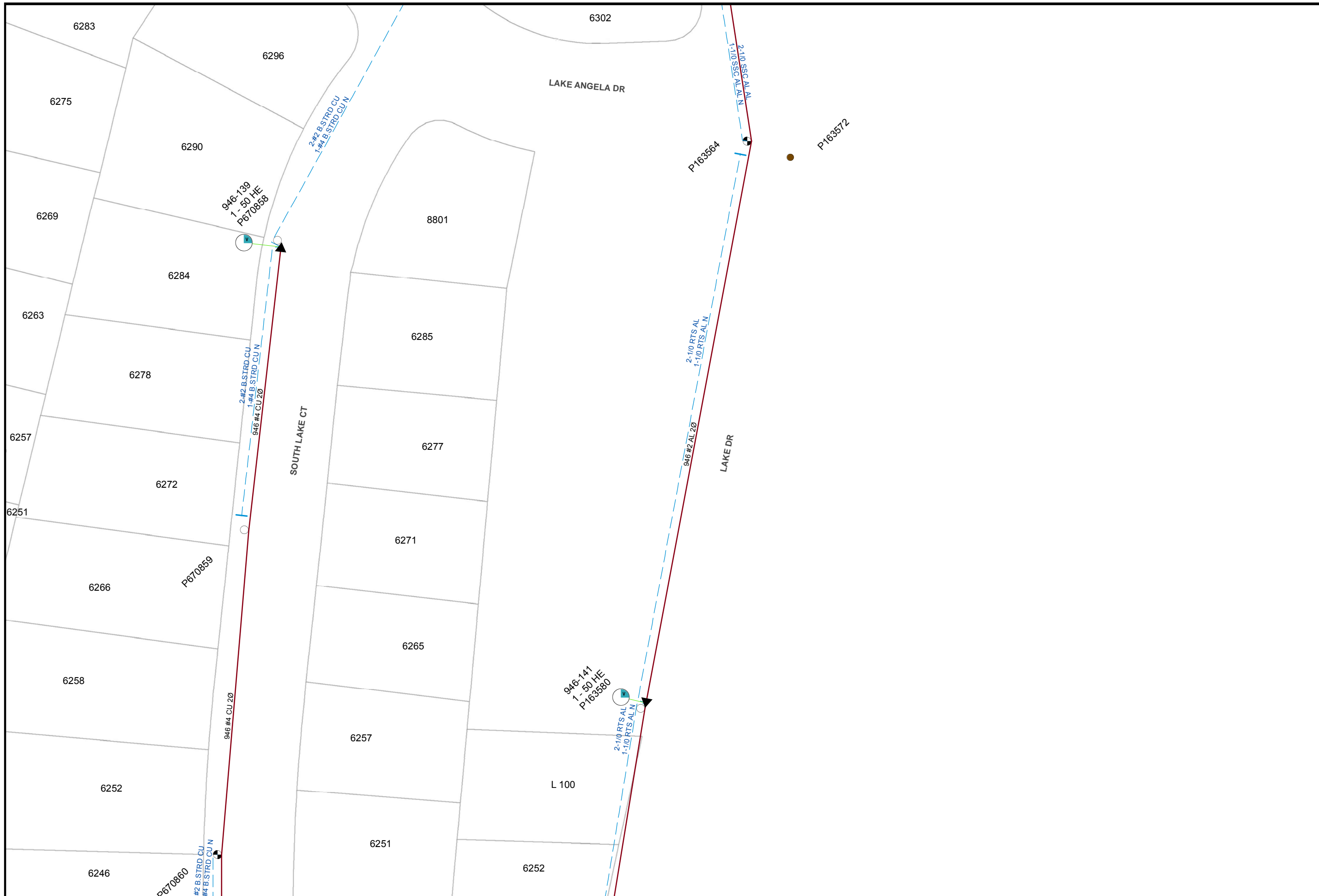
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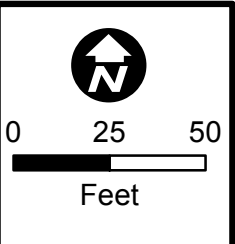
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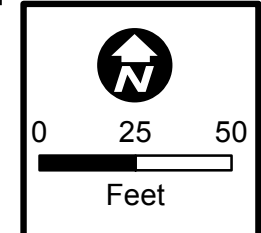
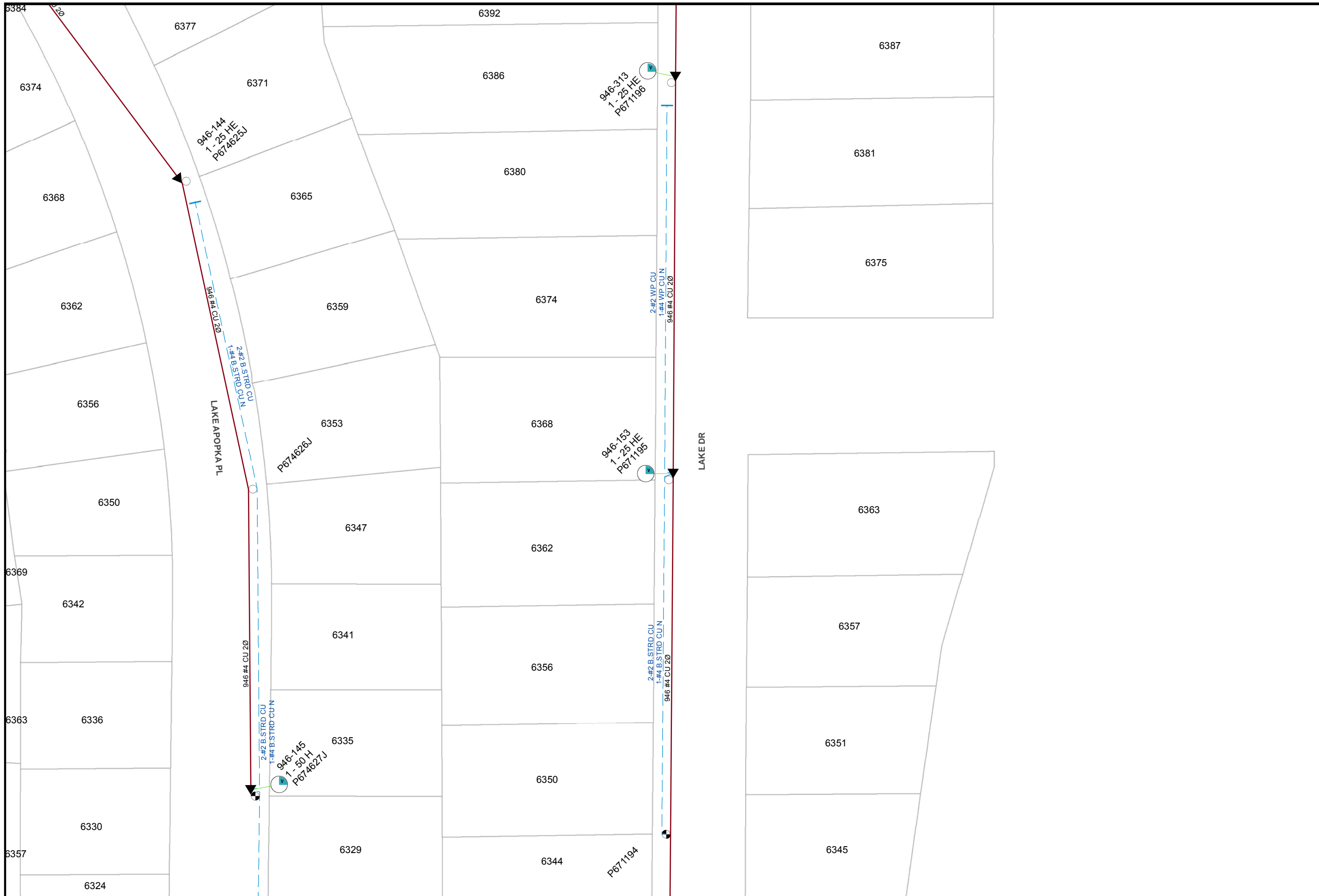
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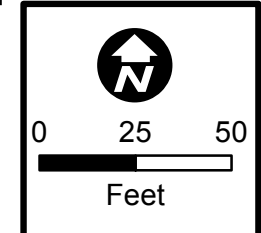




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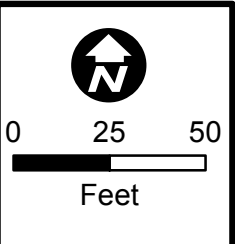
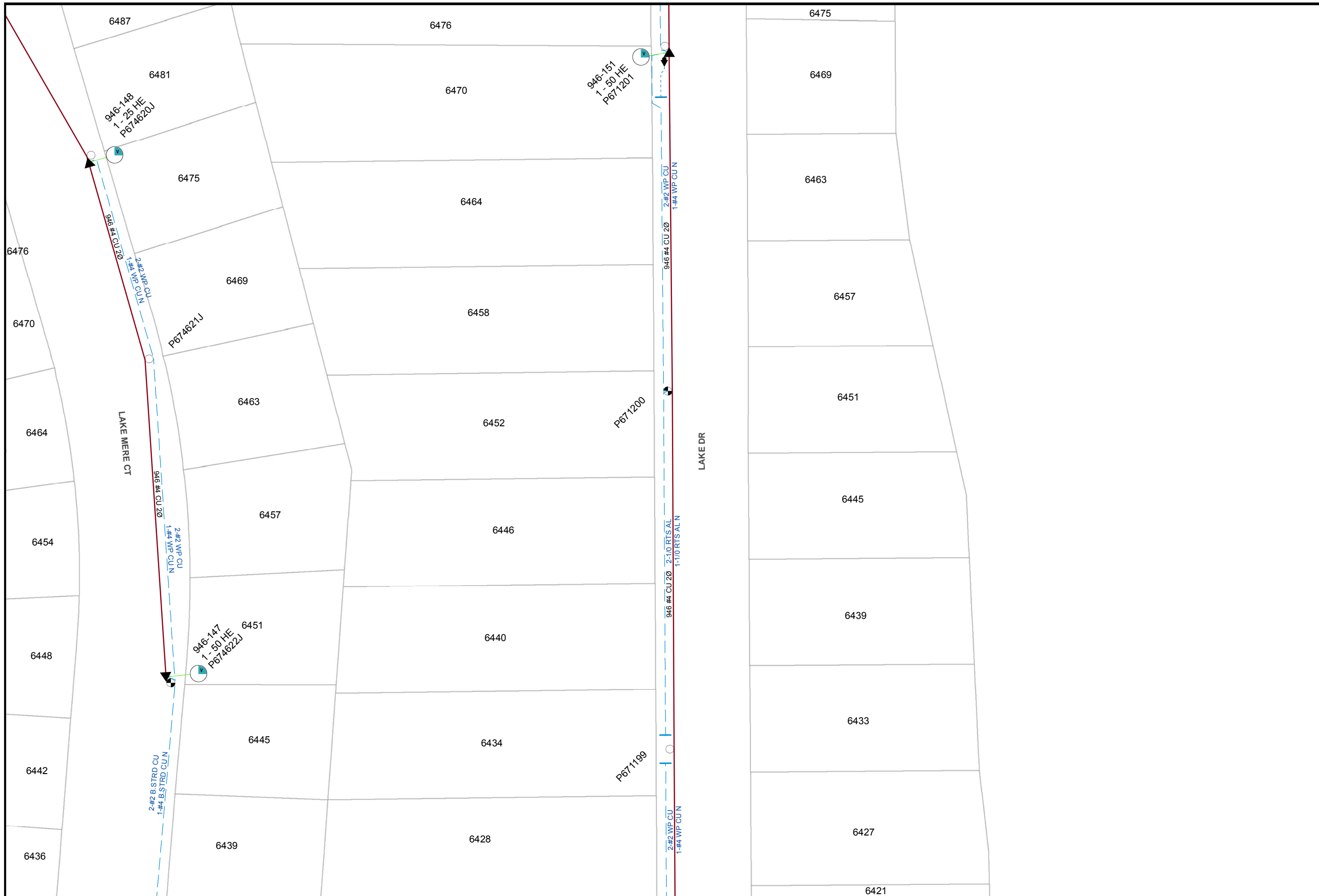
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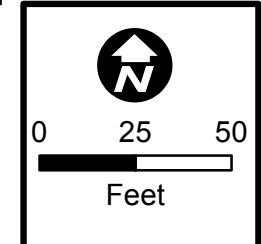
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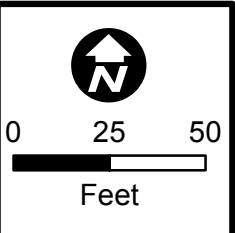
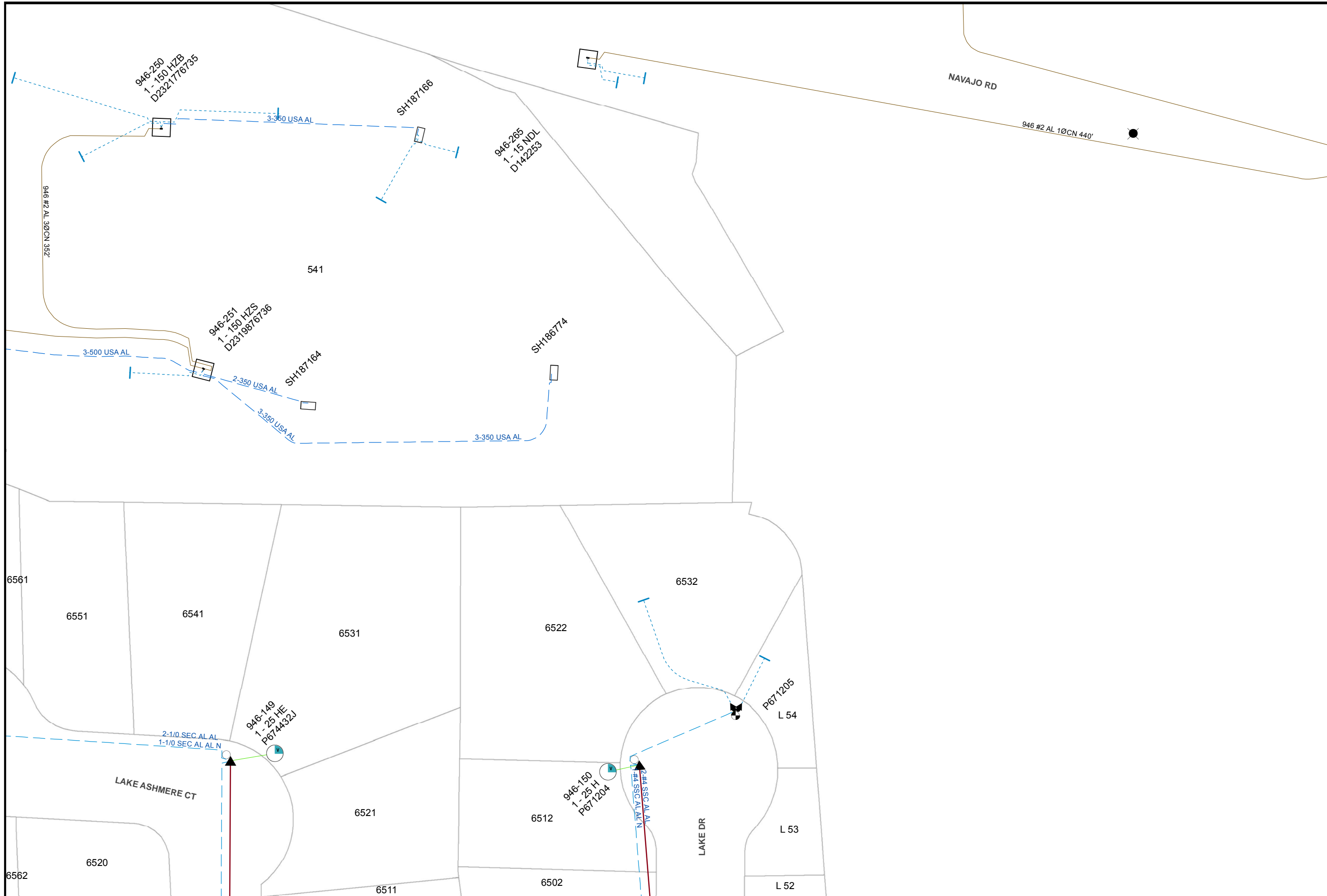
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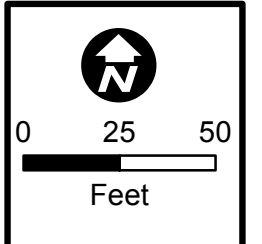
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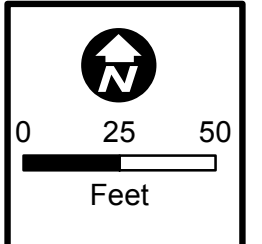
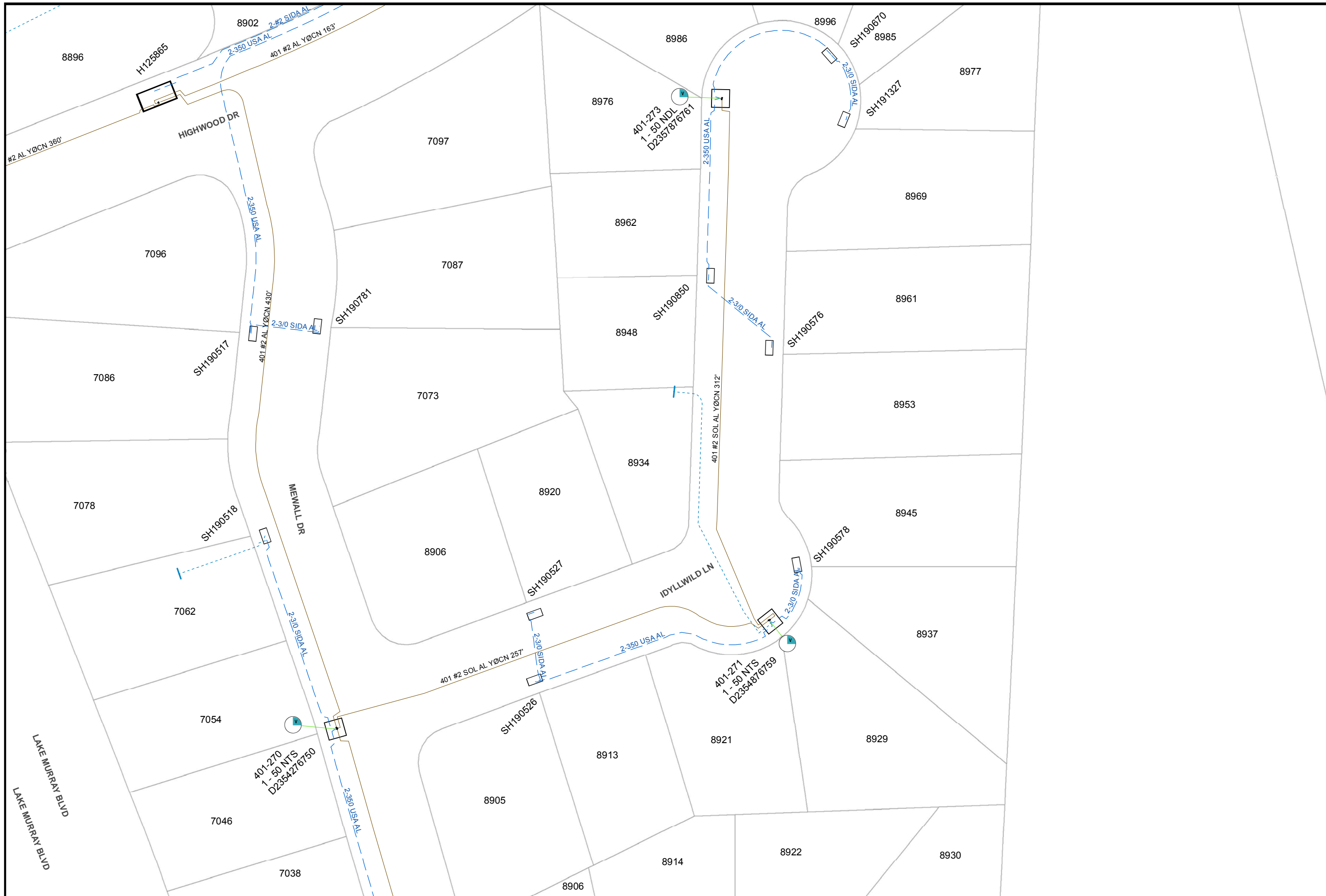
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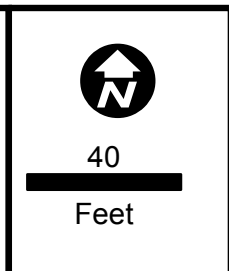
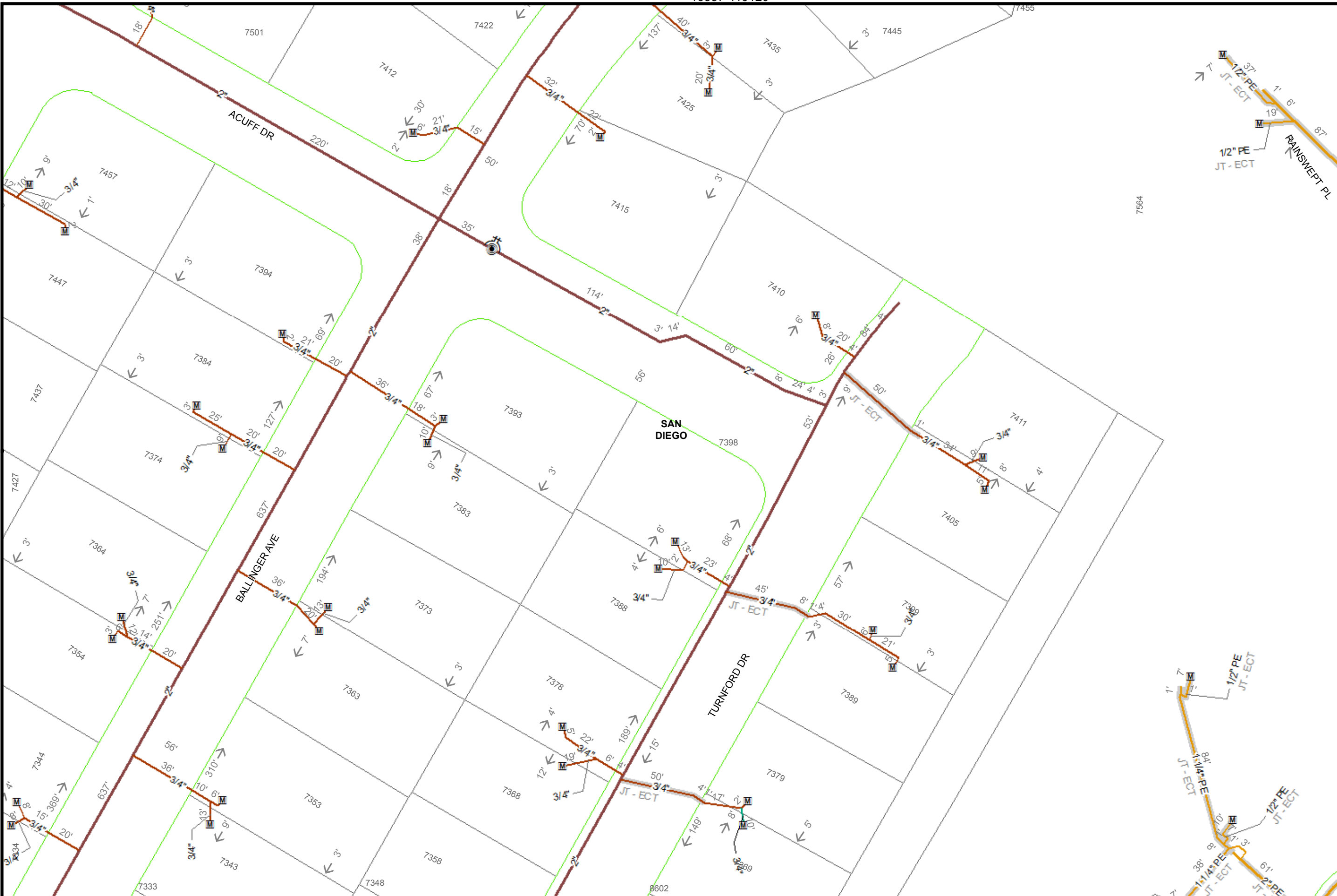
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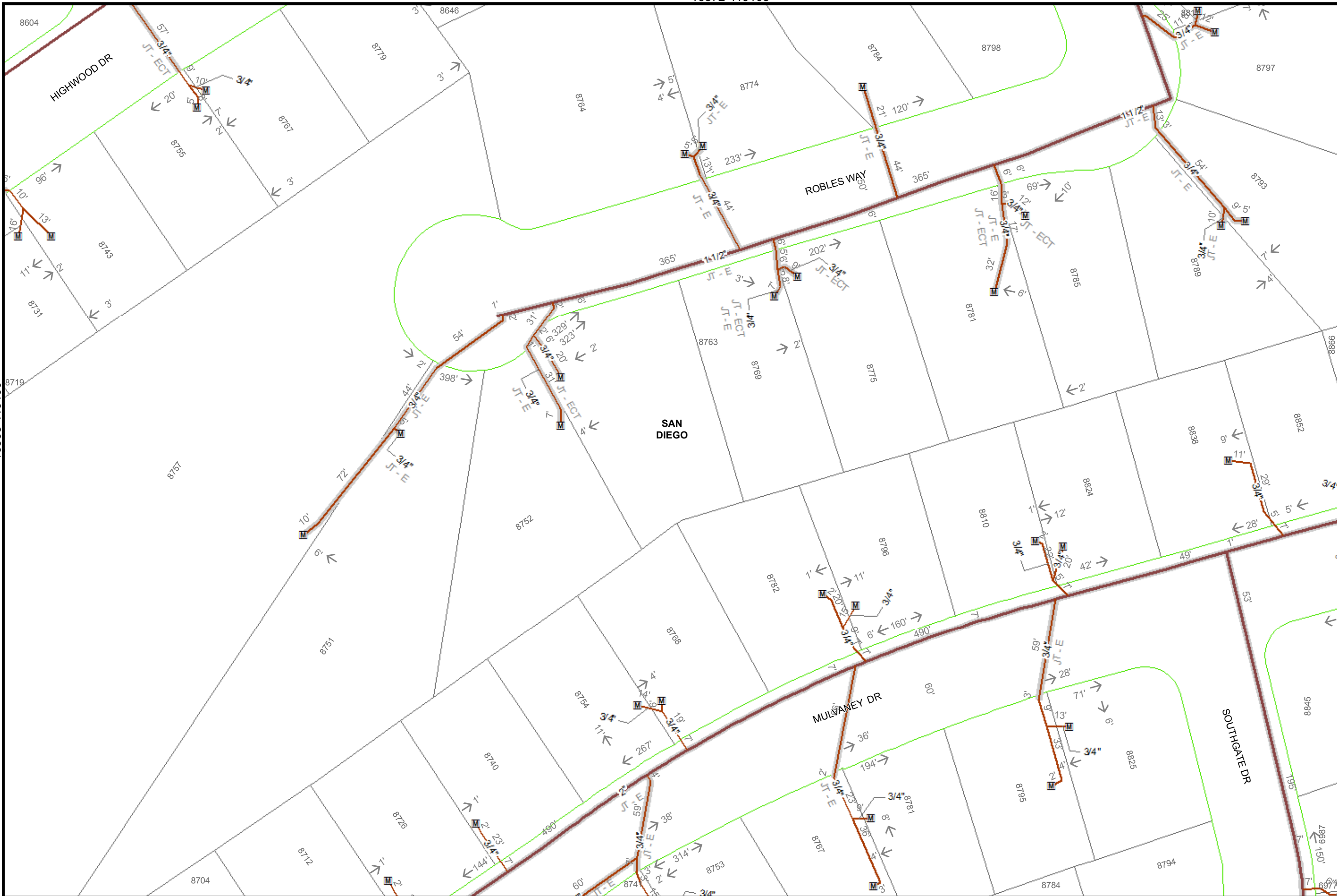
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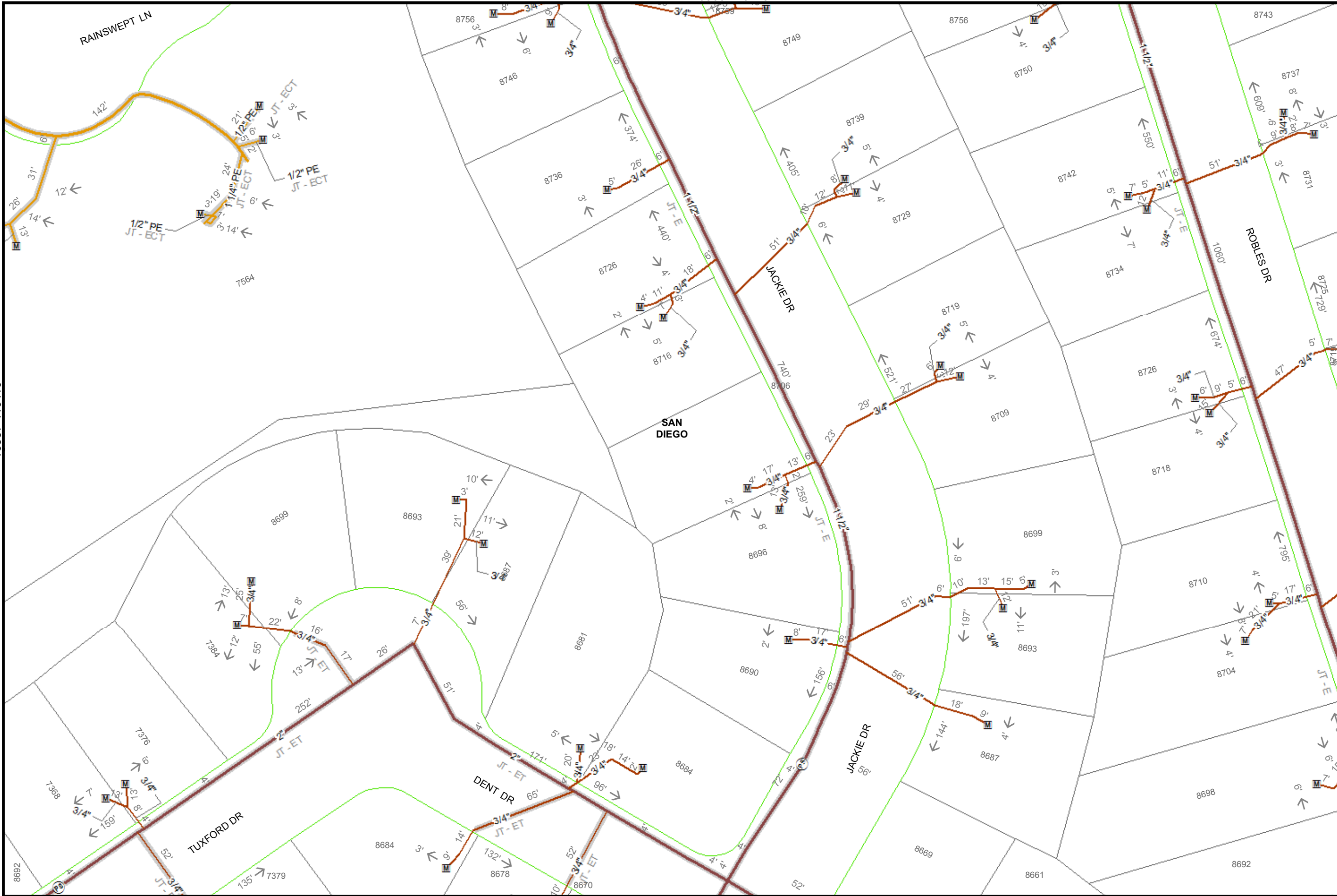
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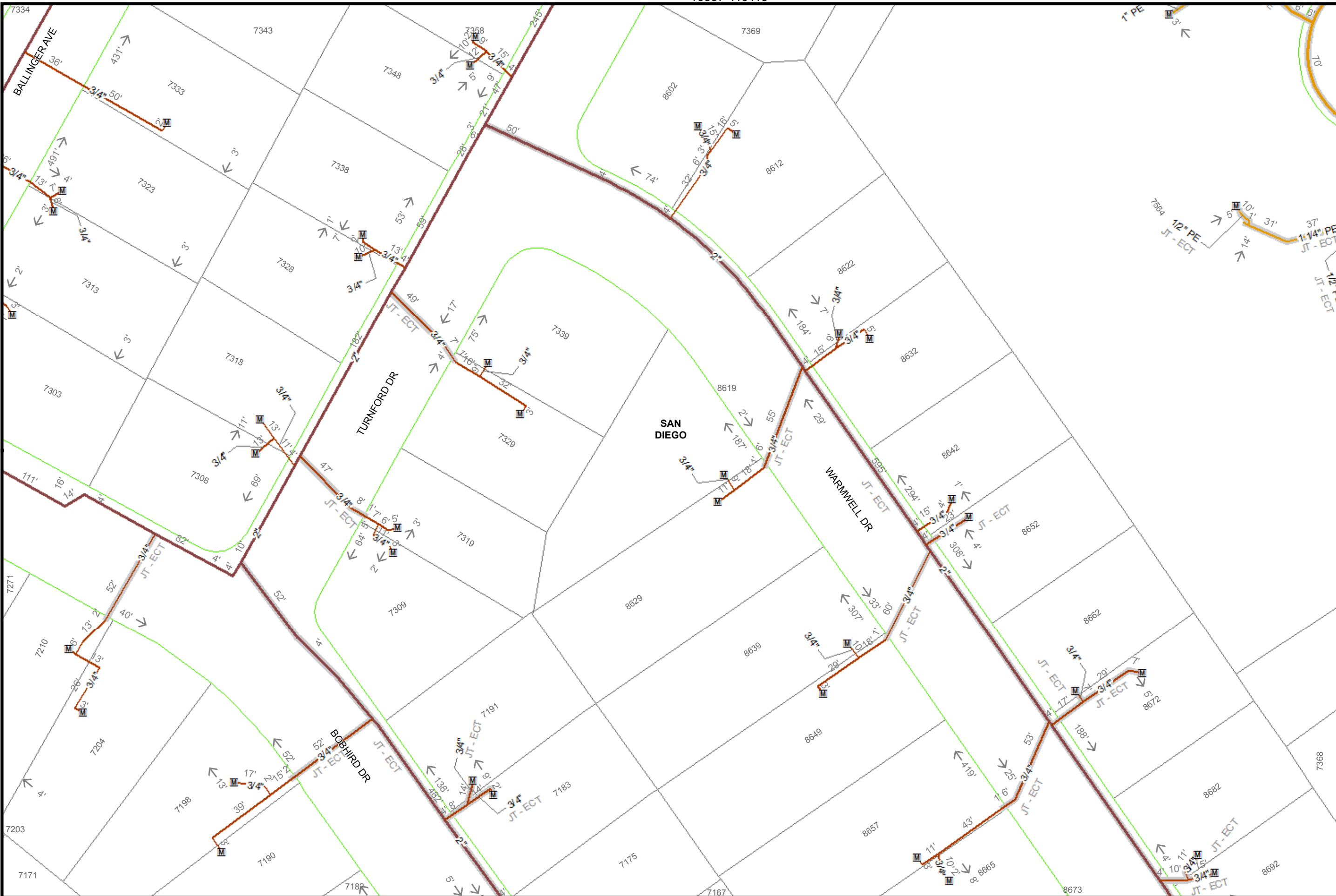
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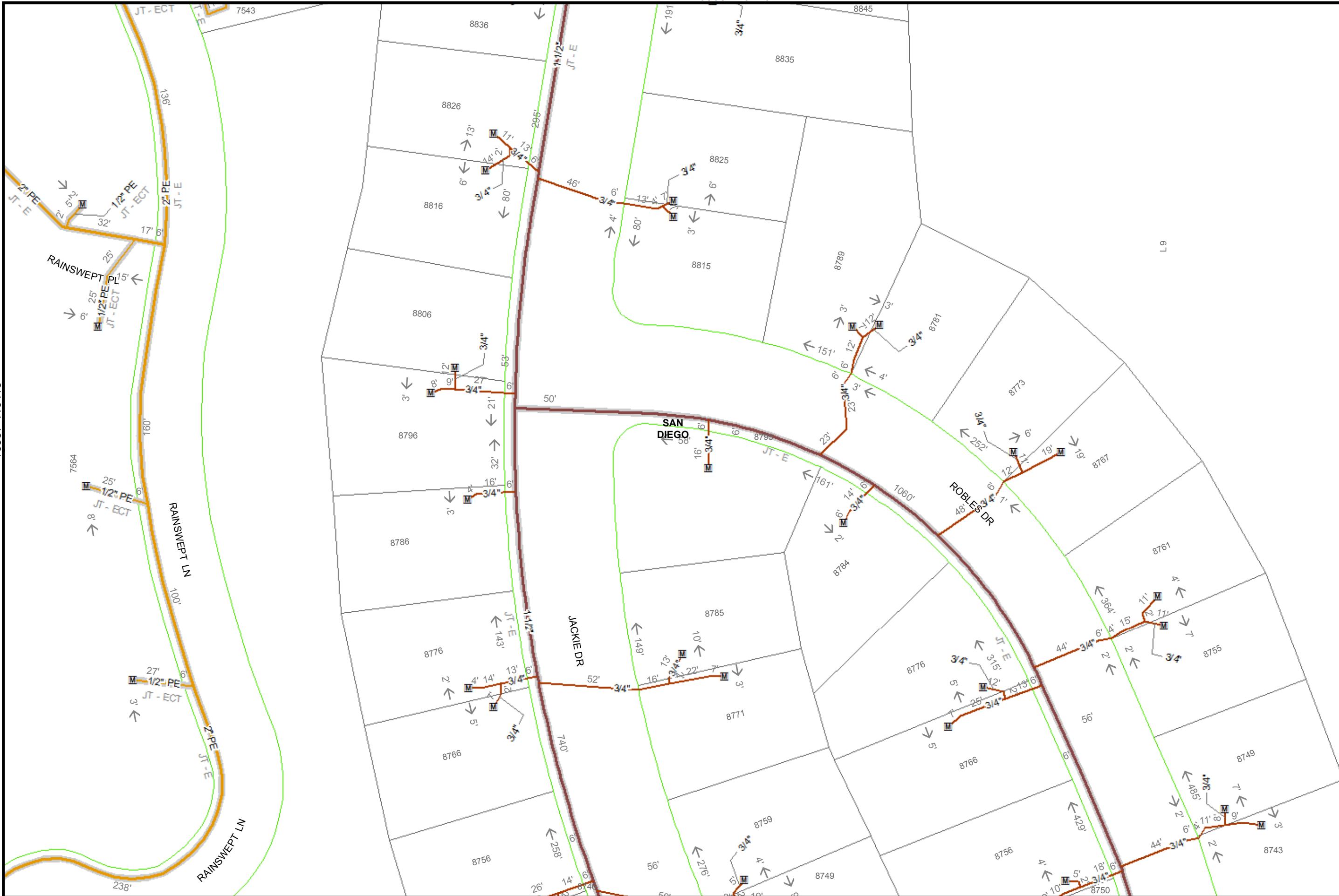
  
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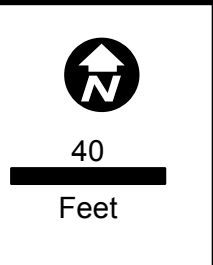
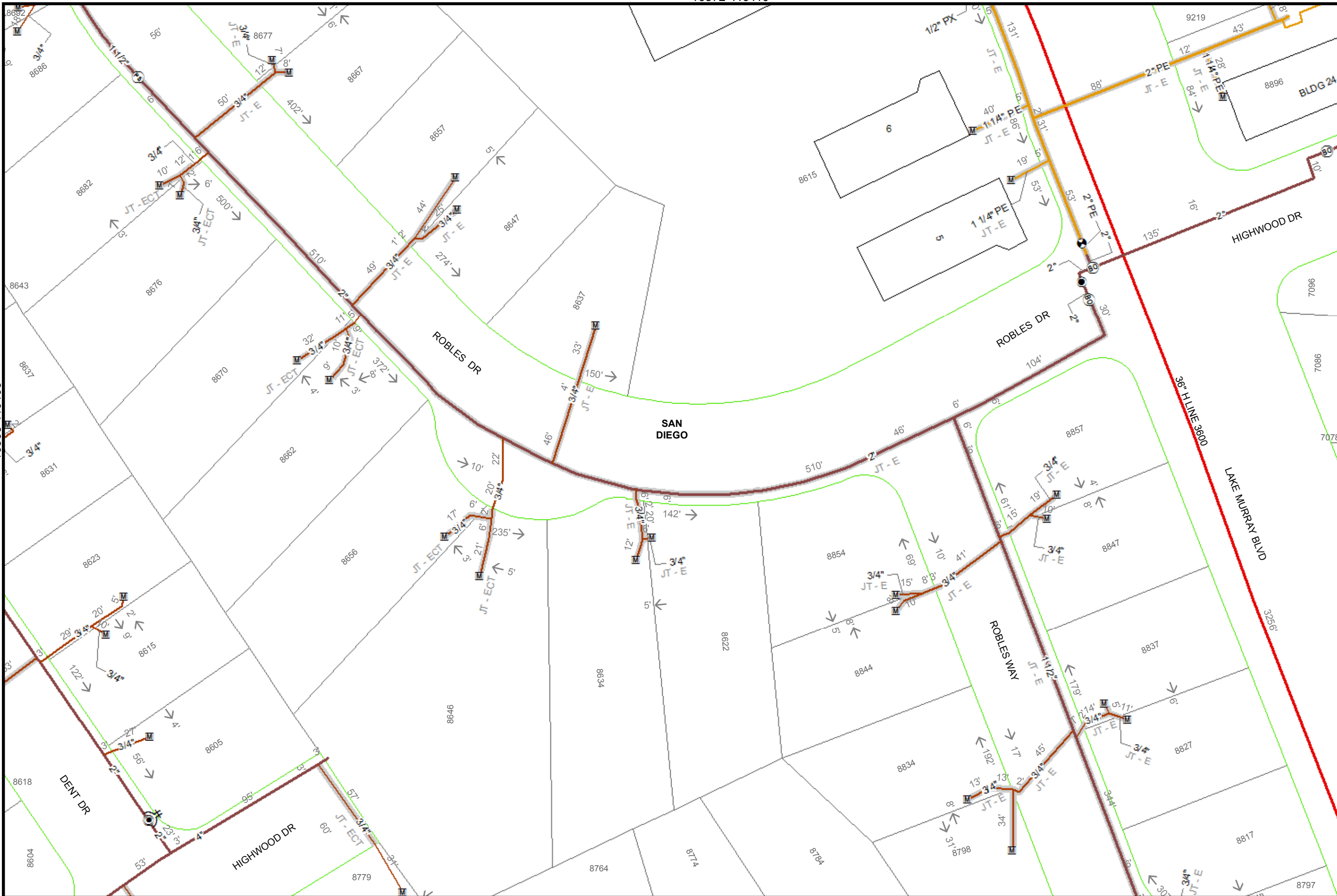
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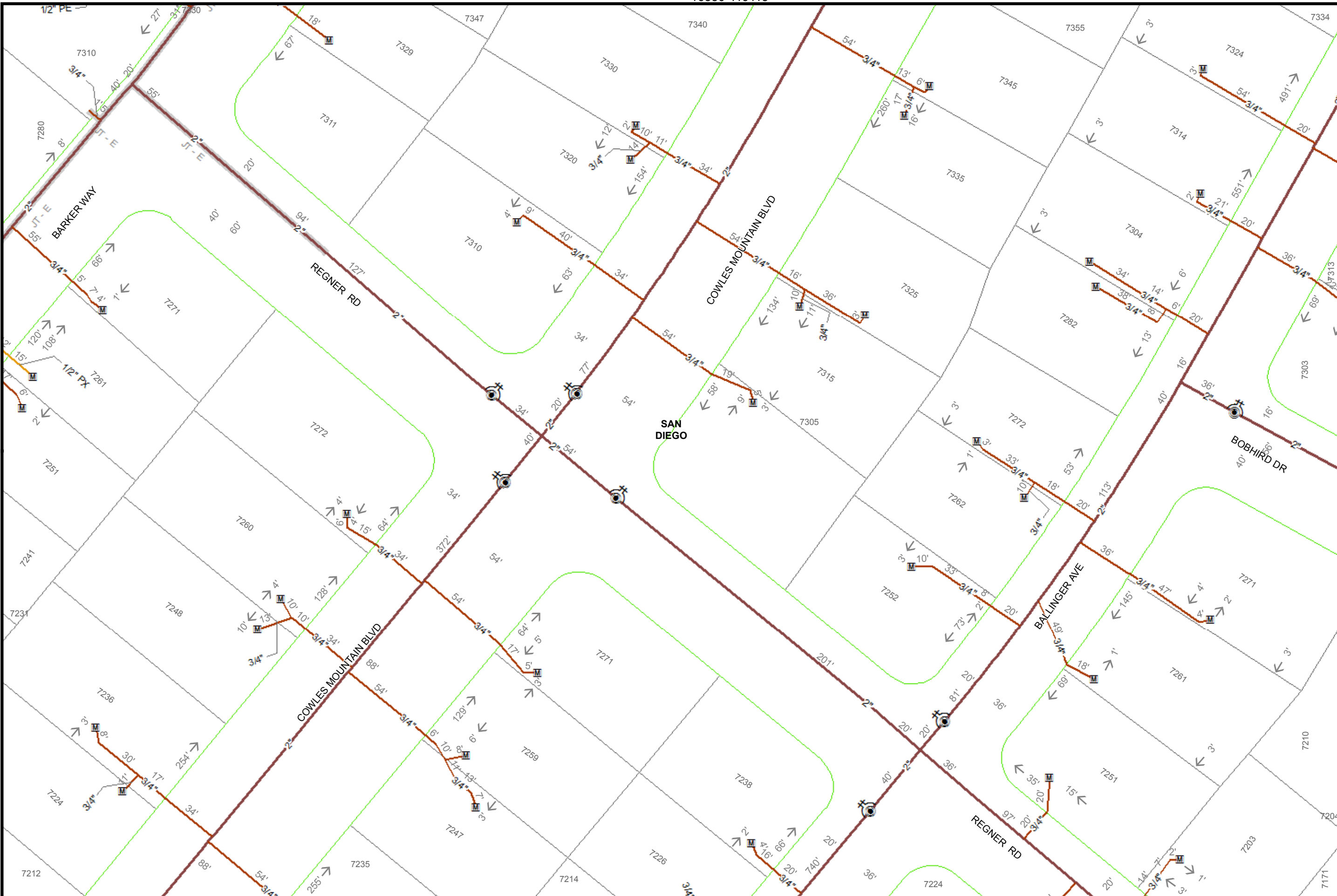
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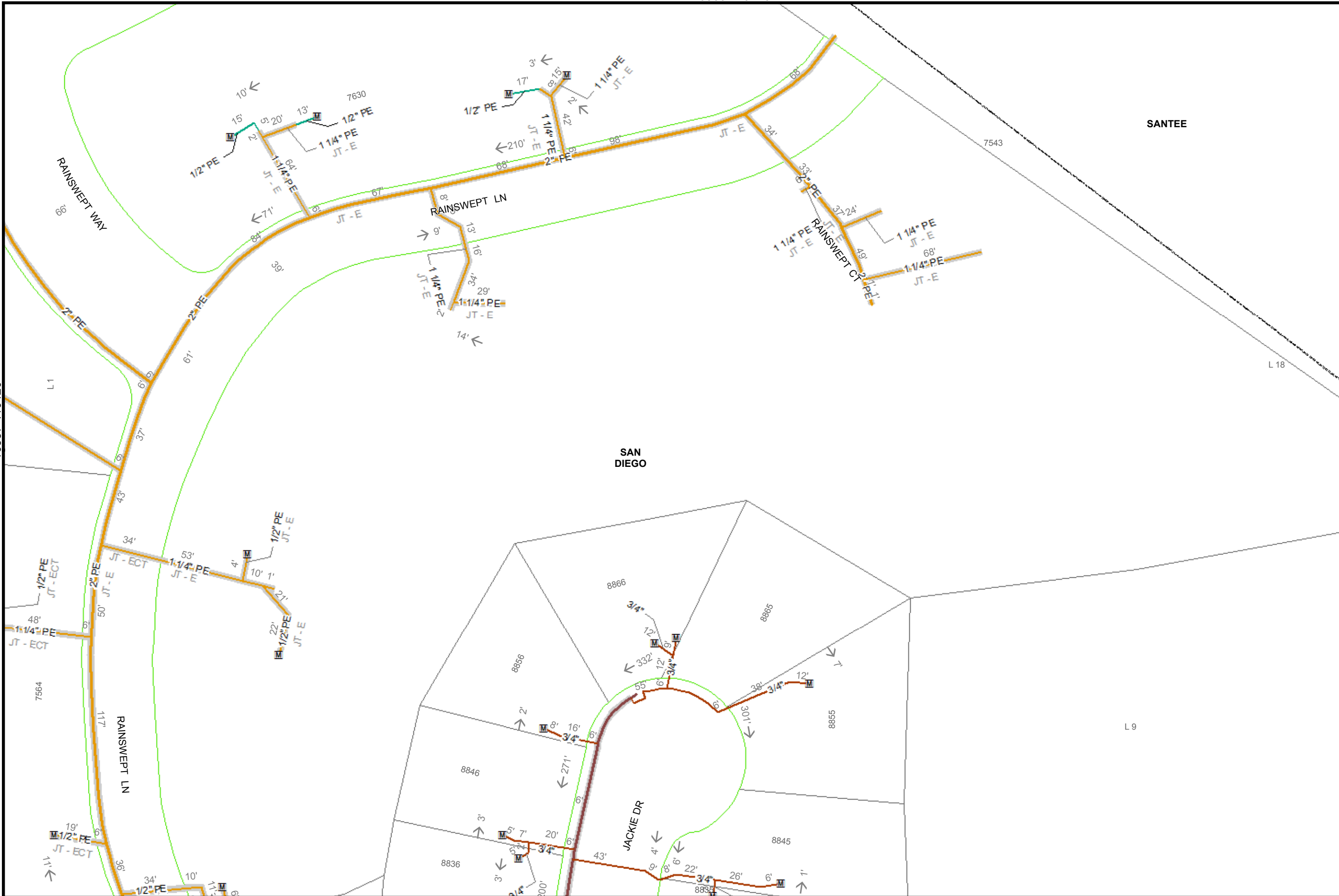




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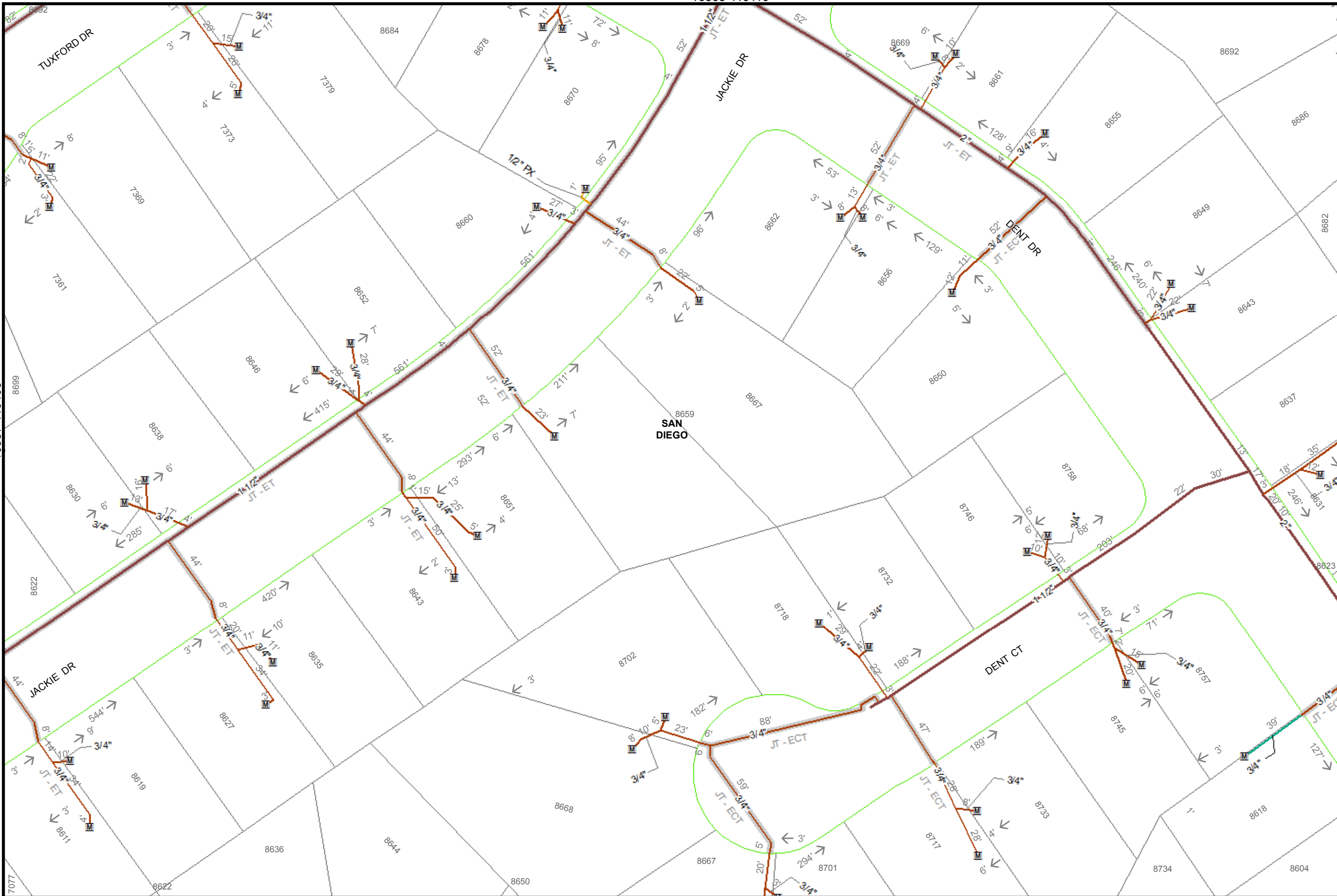
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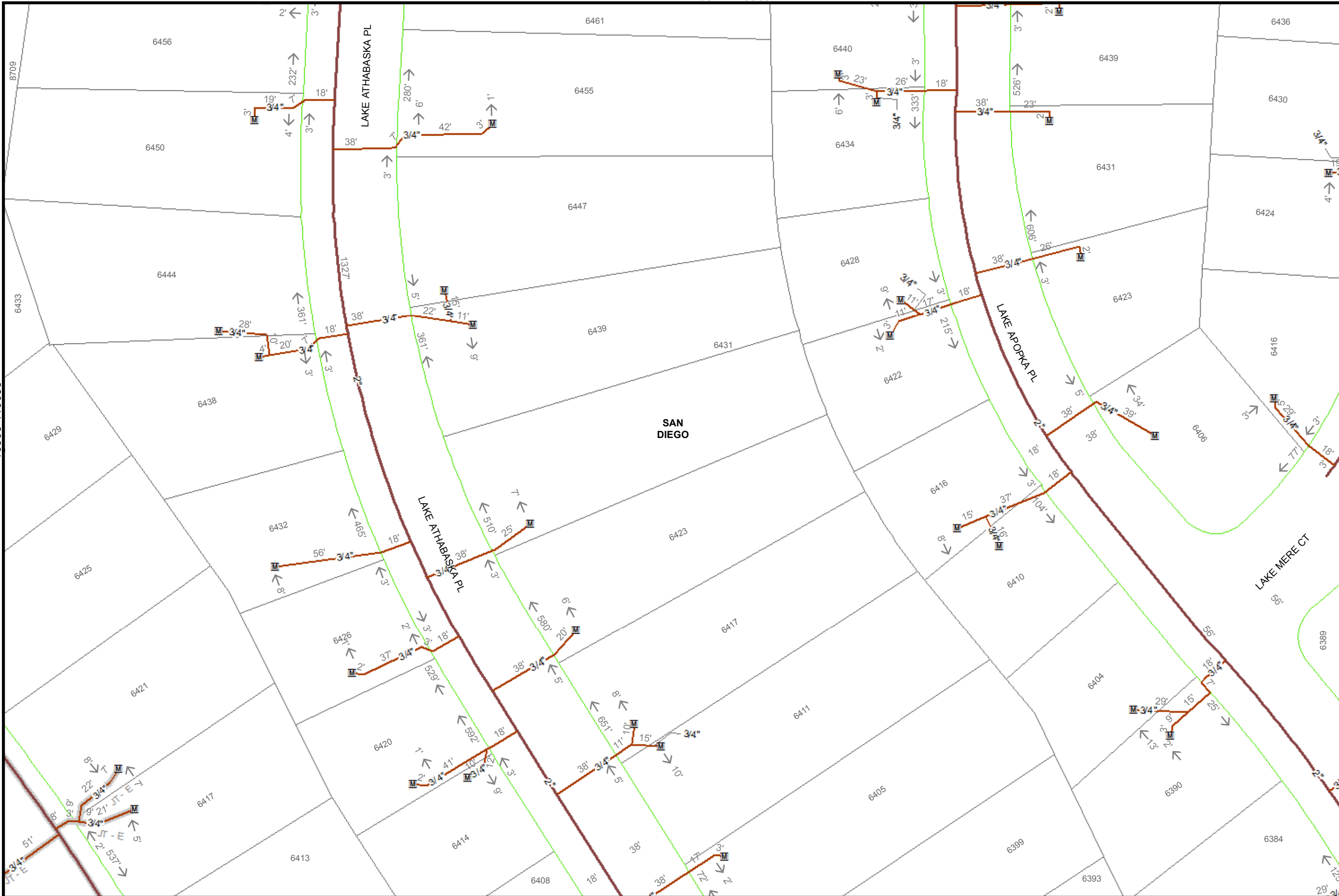
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Map Number:	16365-119105
Map Type:	Gas Asset Map
Printed By:	ekaufma1
Printed Date:	12/13/2017

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## Gas Asset Map-South of Navajo-Pipeline Rehab AQ-1



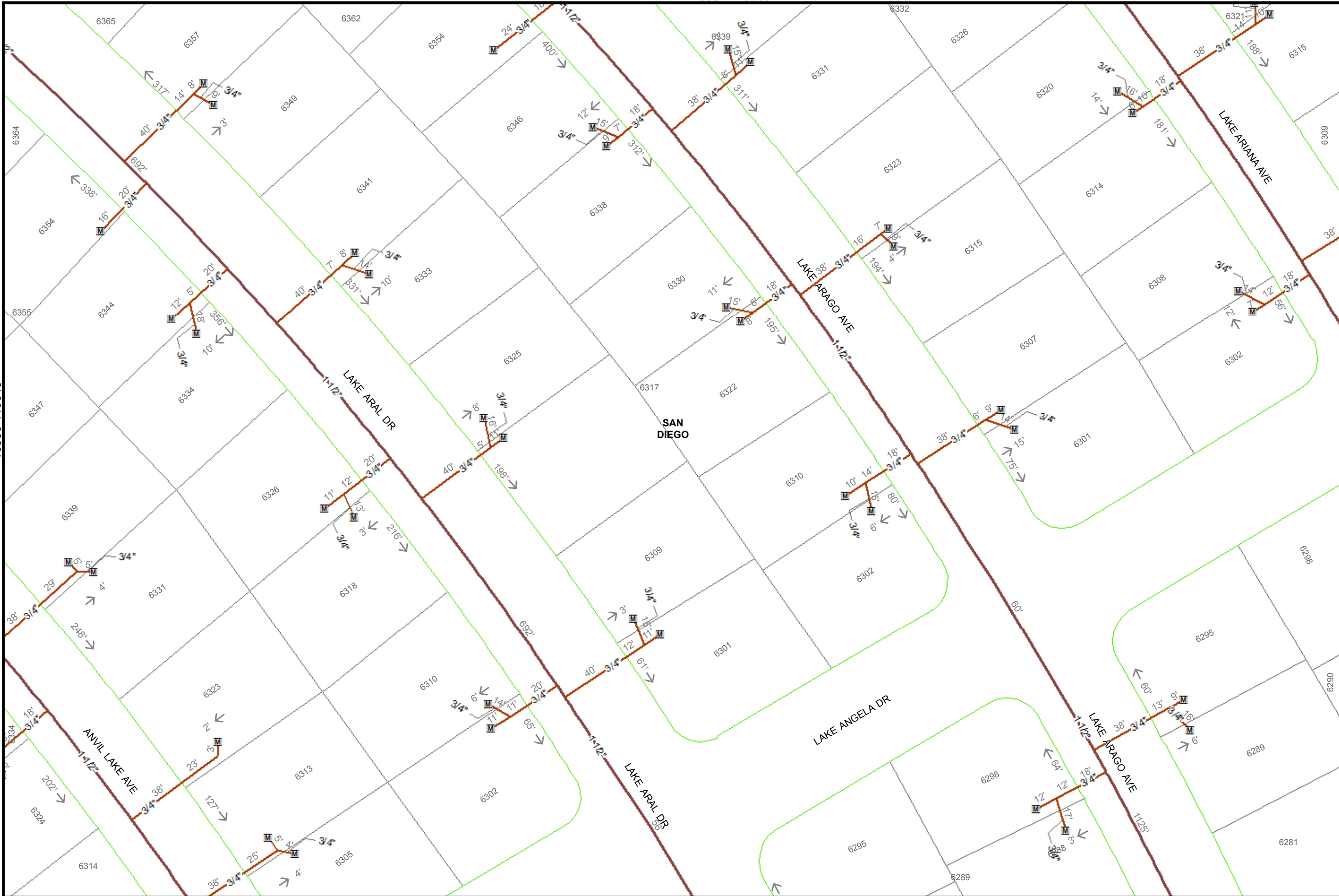
  
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Printed Date:	12/13/2017

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Map Number: 16357-119045

Map Type: Gas Asset Map

Printed By: ekaufma1

Printed Date: 12/13/2017

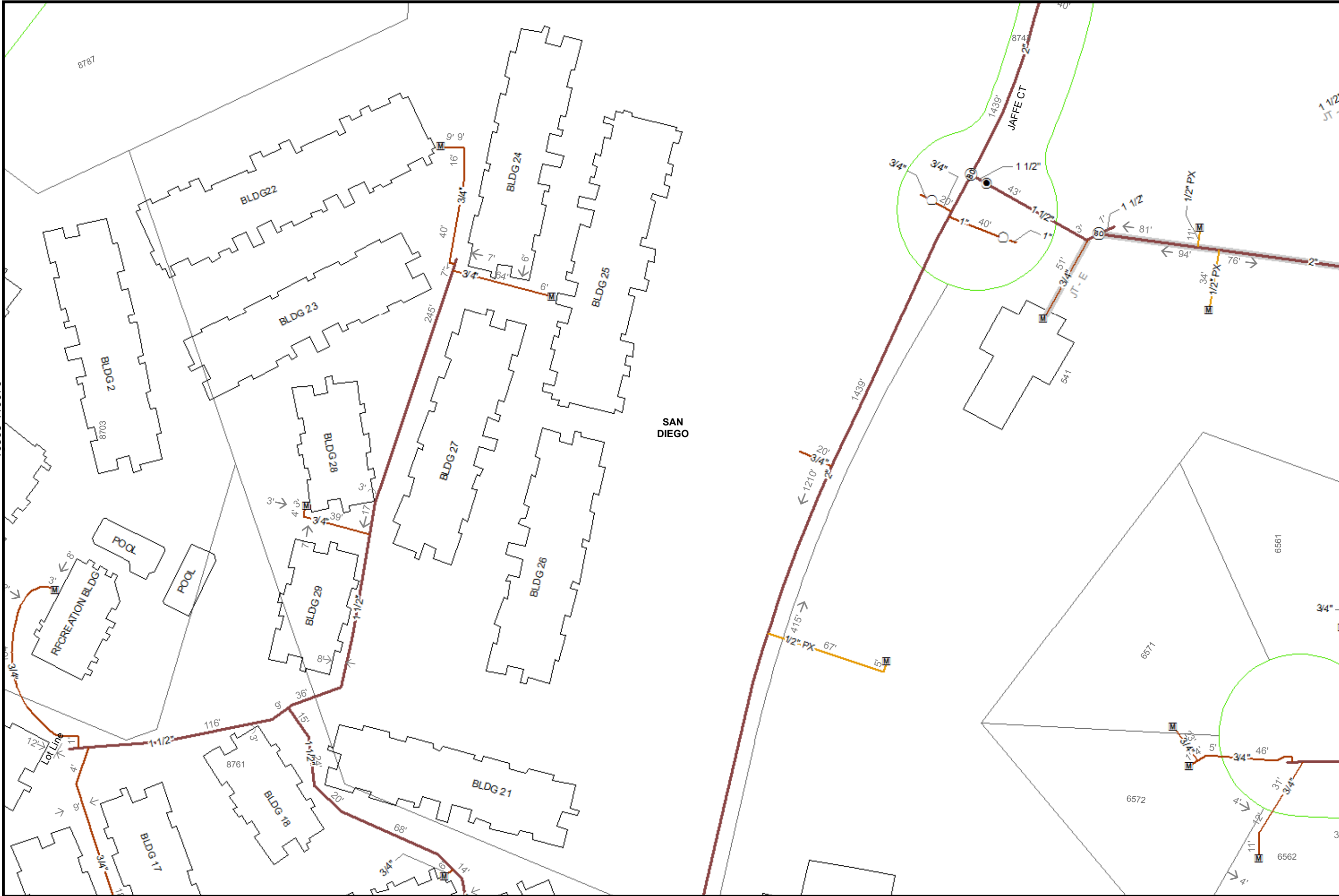
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Map Number: 16372-119070

Map Type: Gas Asset Map

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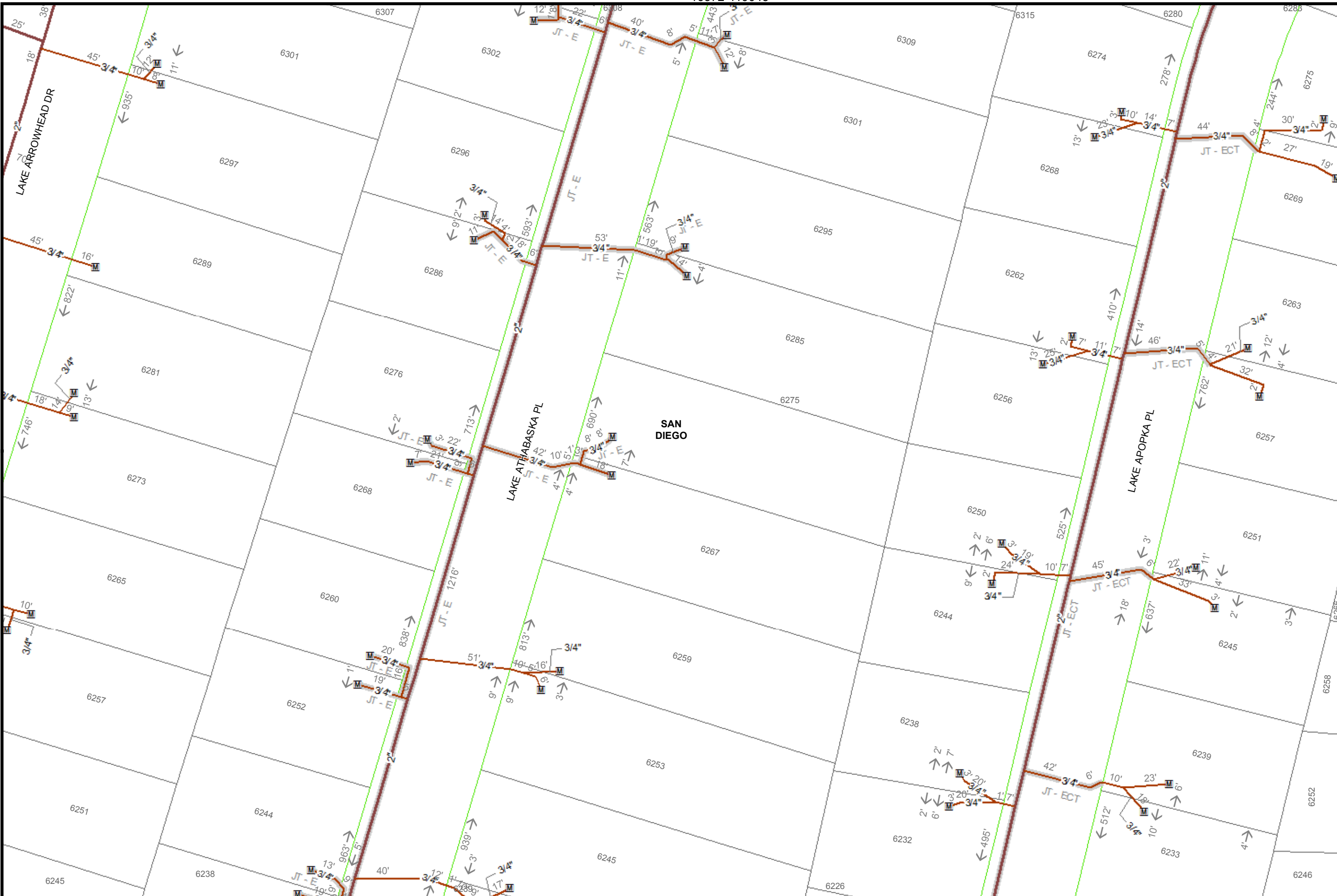
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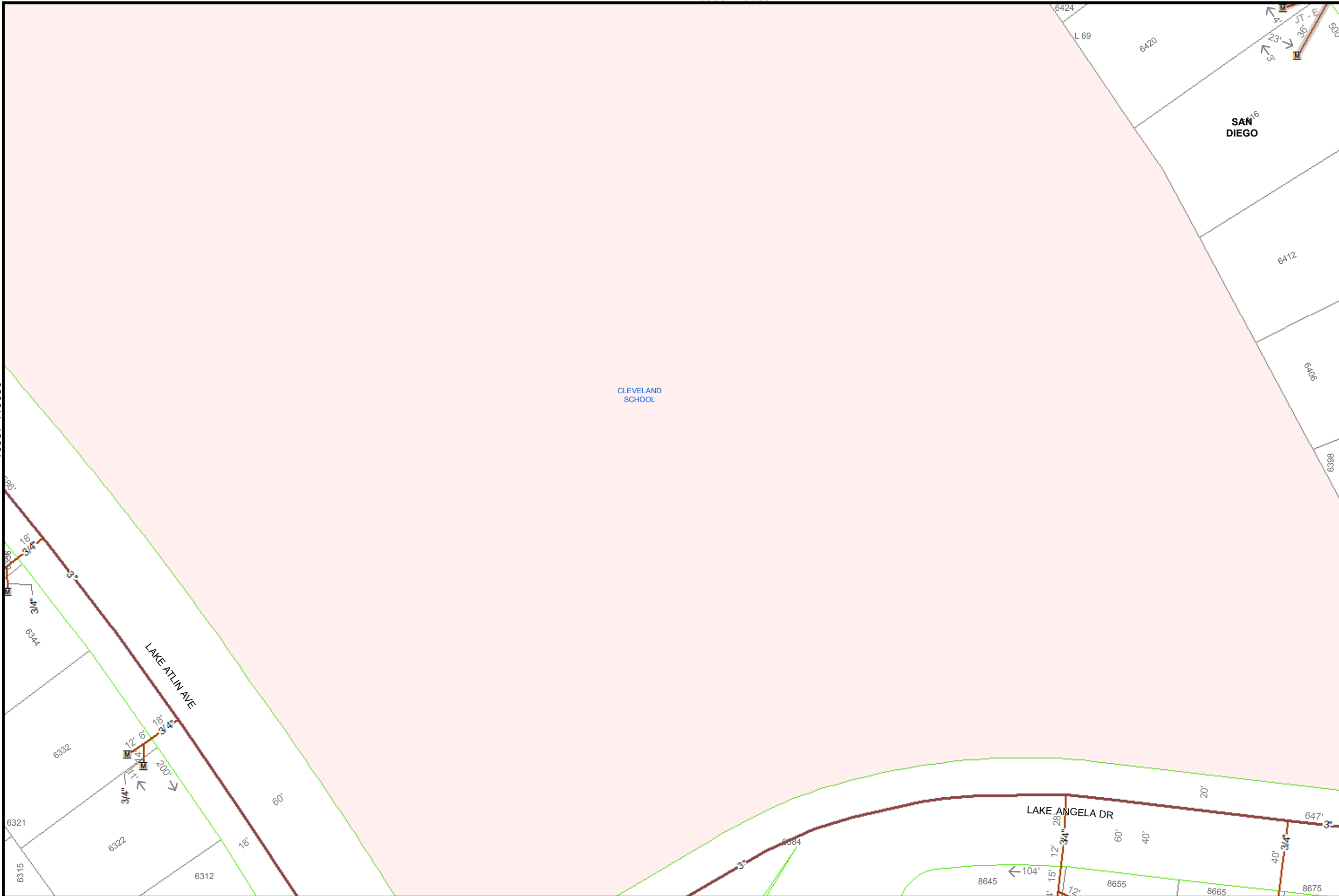



  
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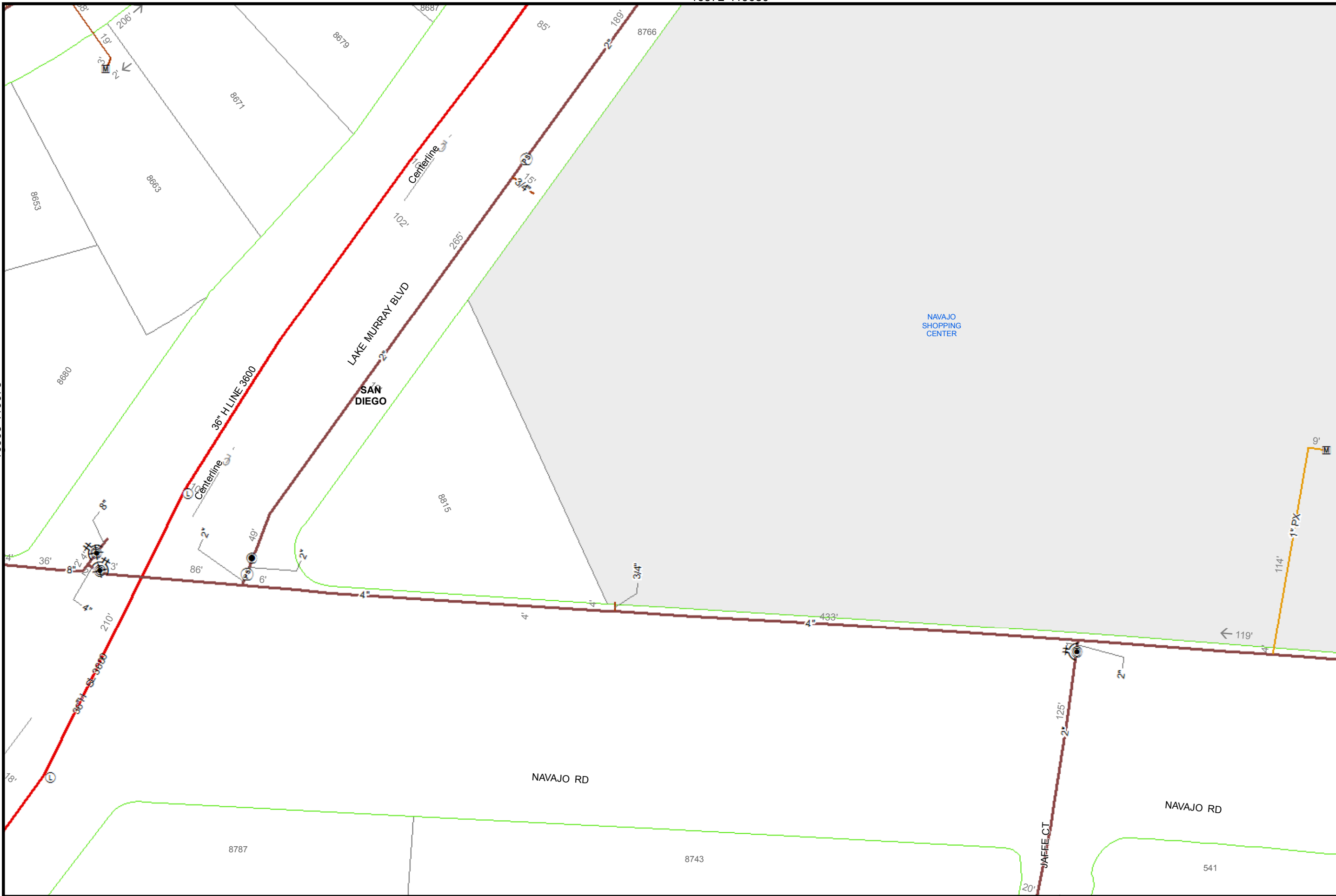
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16365-119075

16372-119080

16372-119070



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Map Type: Gas Asset Map

Printed By: ekaufma1

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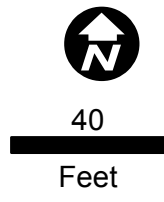
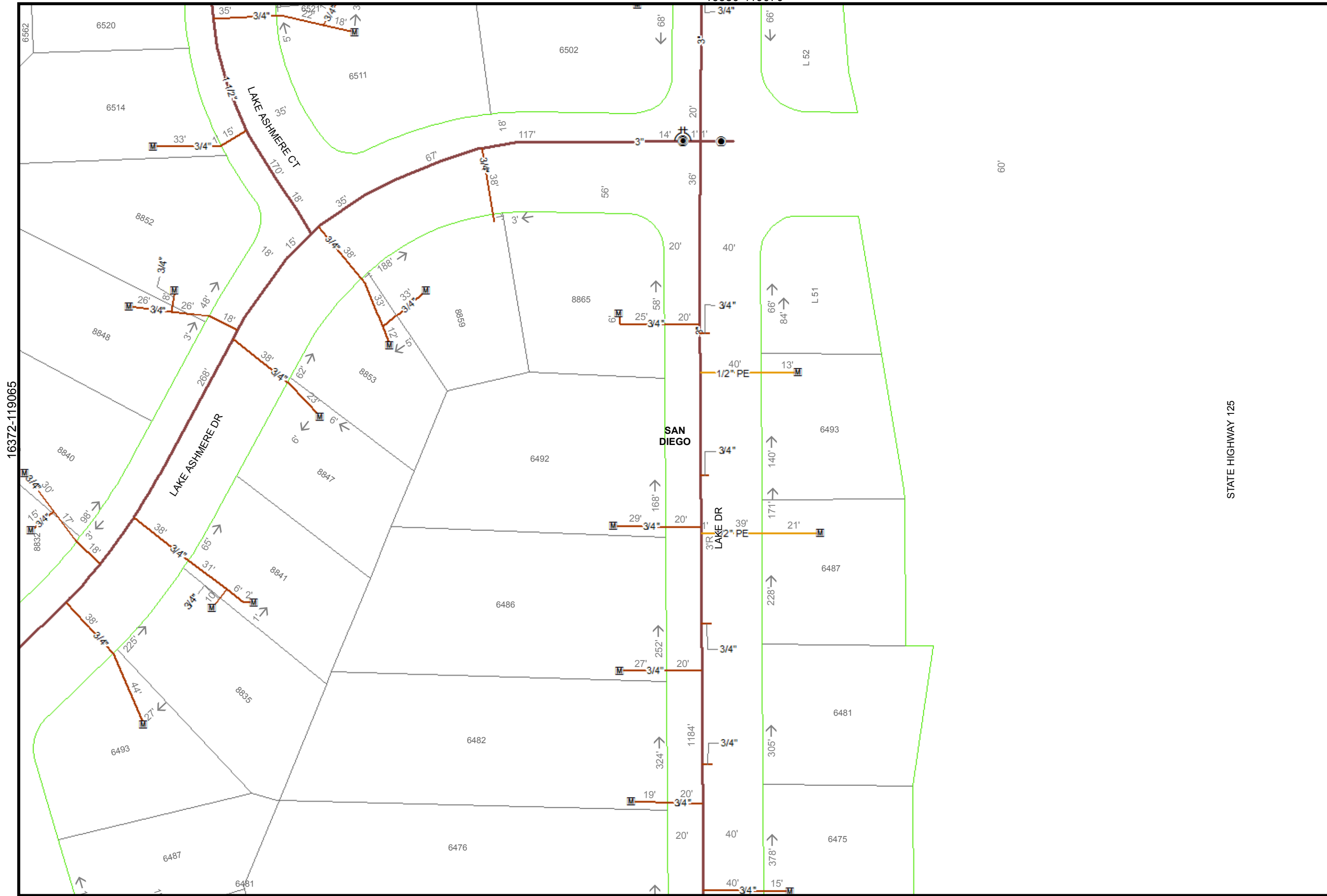
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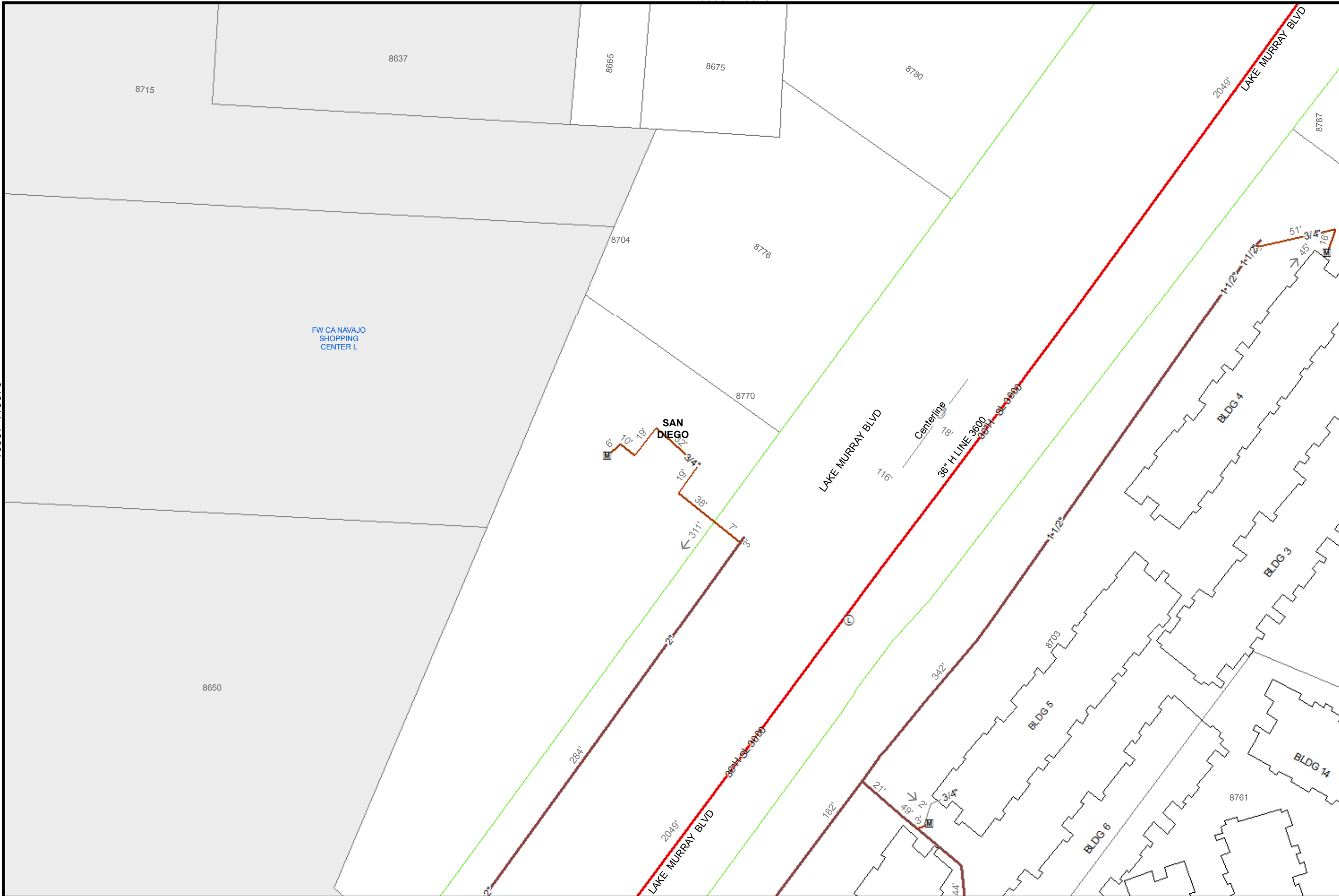


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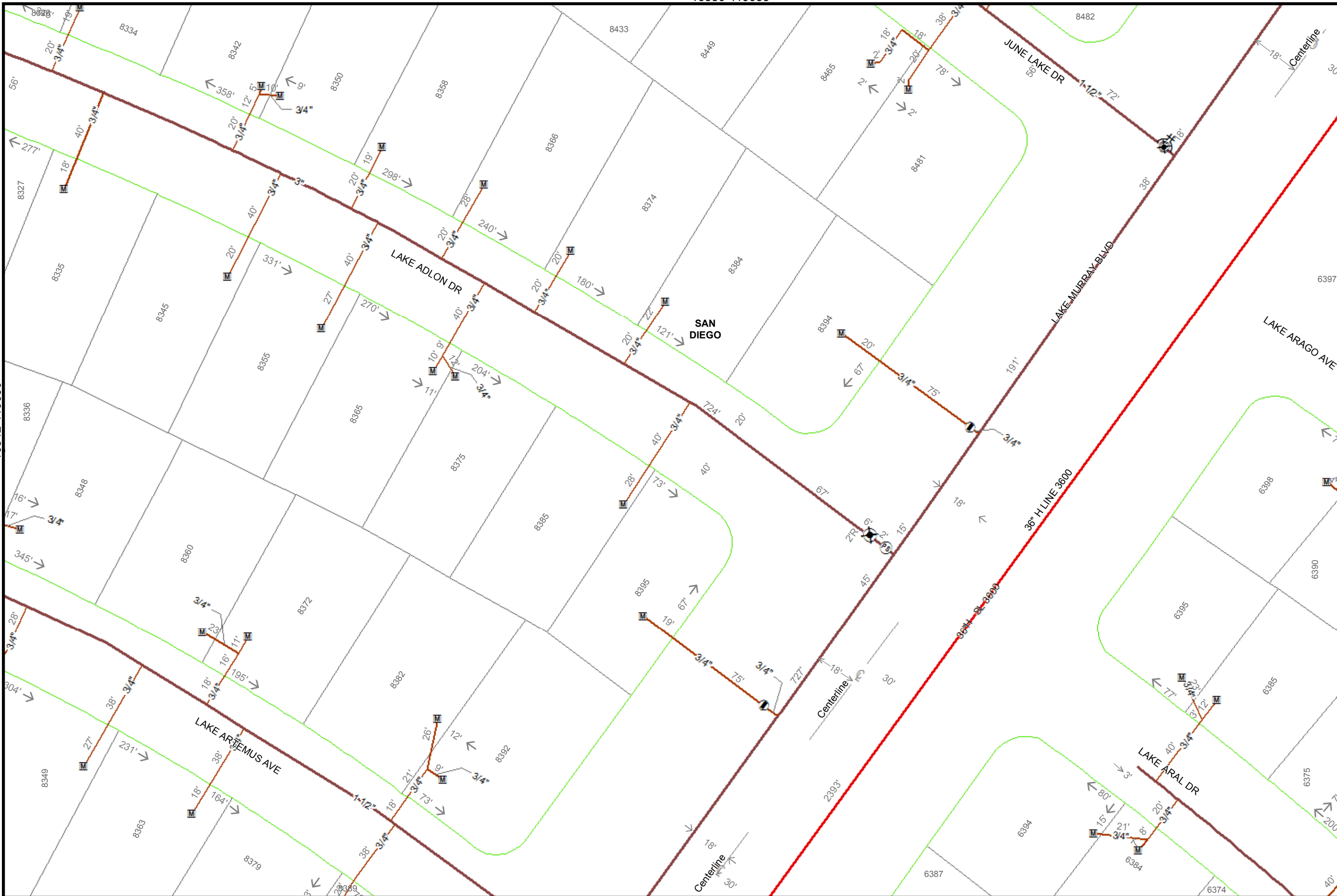
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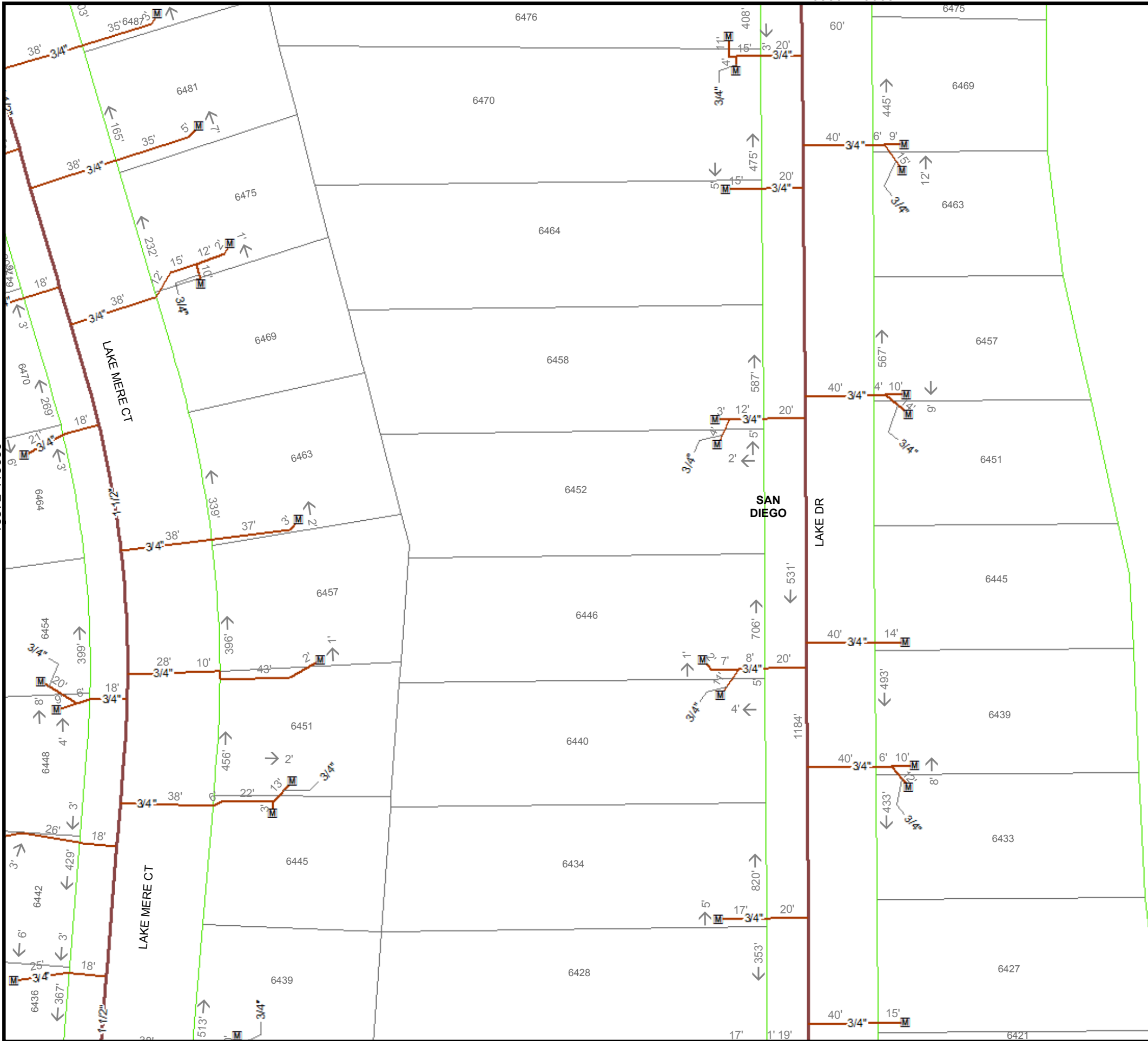
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16372-119060

16380-119065

16380-119055



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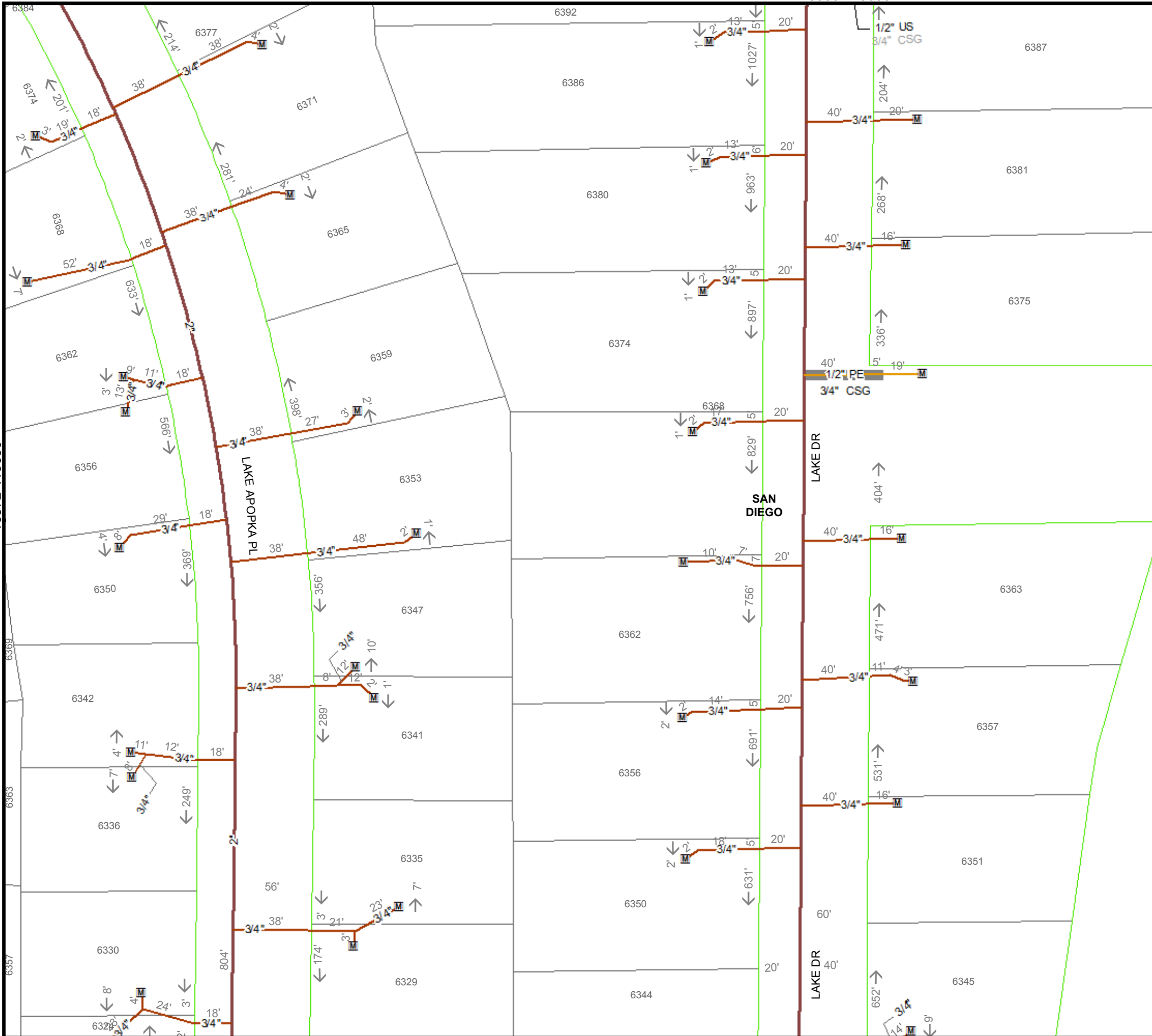
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16387-119060

16372-119050



16380-119055

16380-119045



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Printed Date: 12/13/2017

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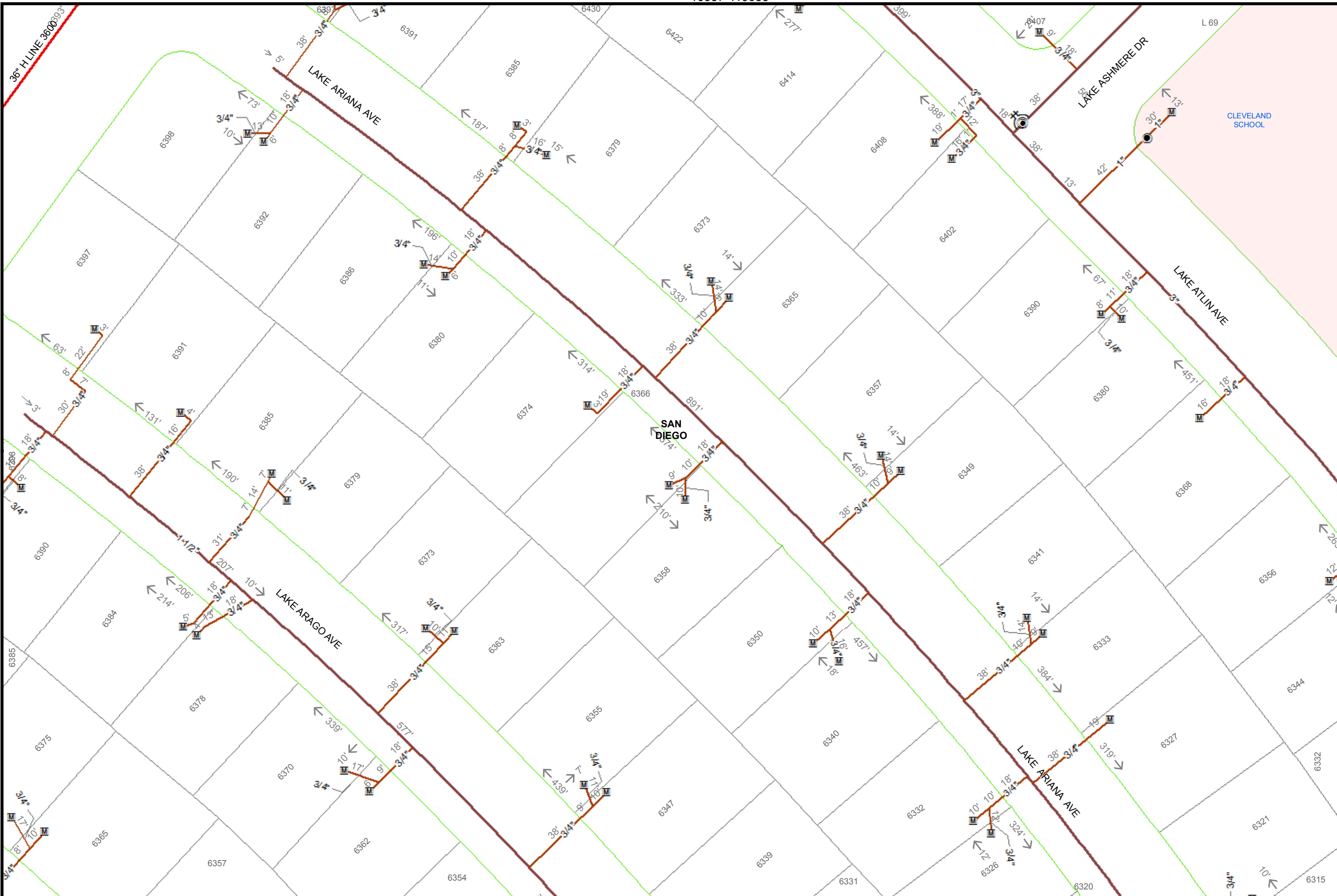
STATE HIGHWAY 125


EL CAJON

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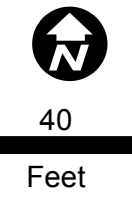
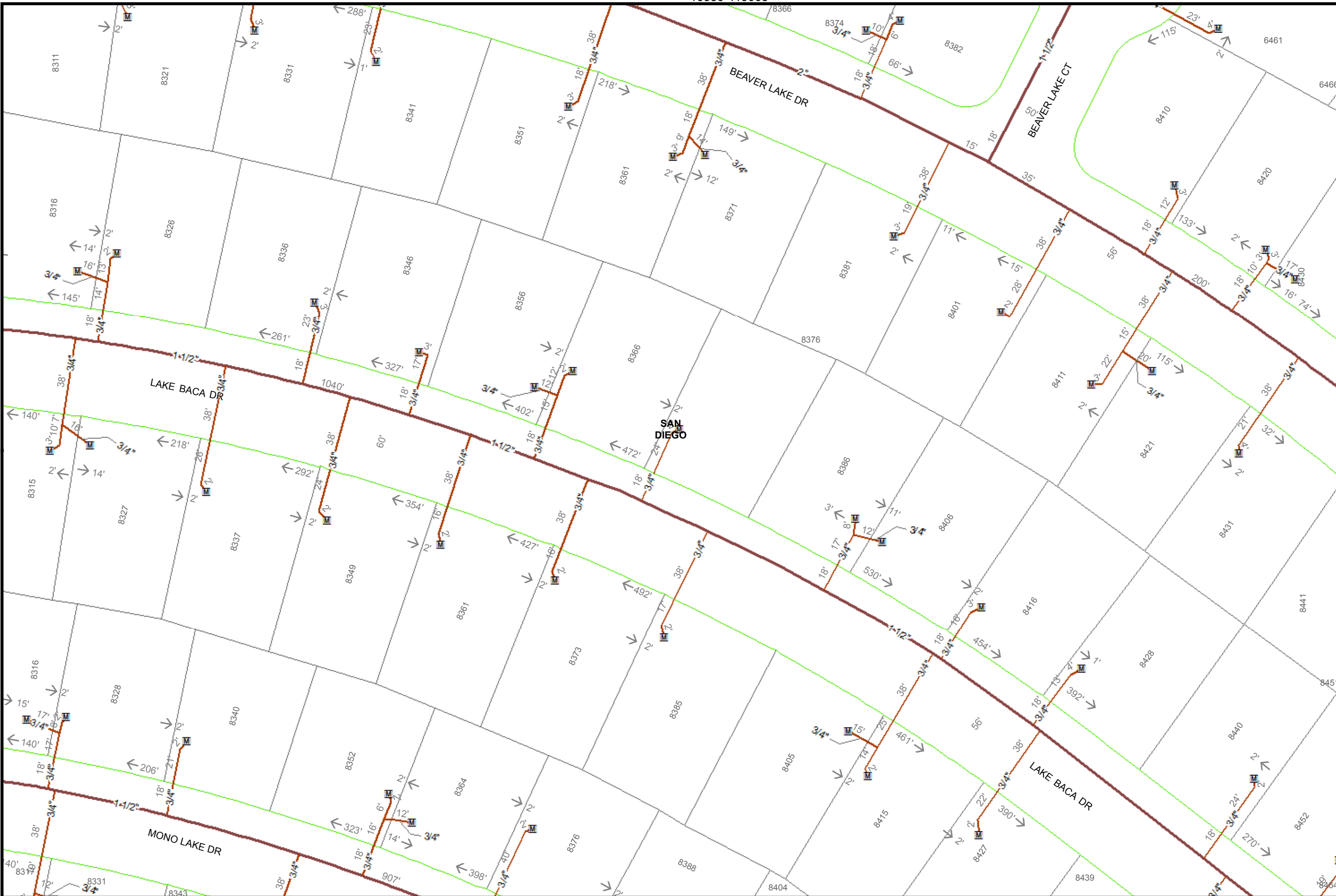
  
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Map Type:	Gas Asset Map
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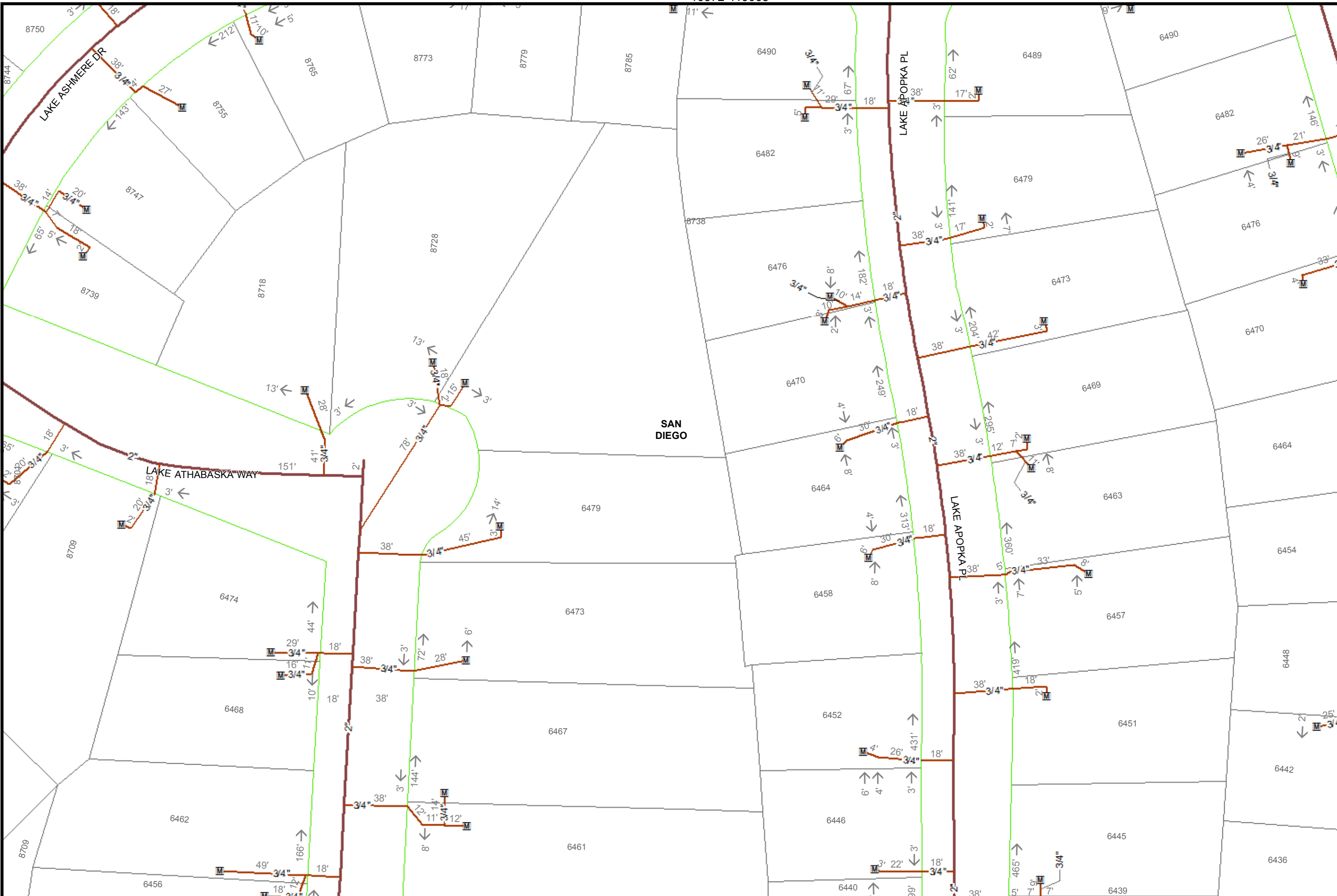



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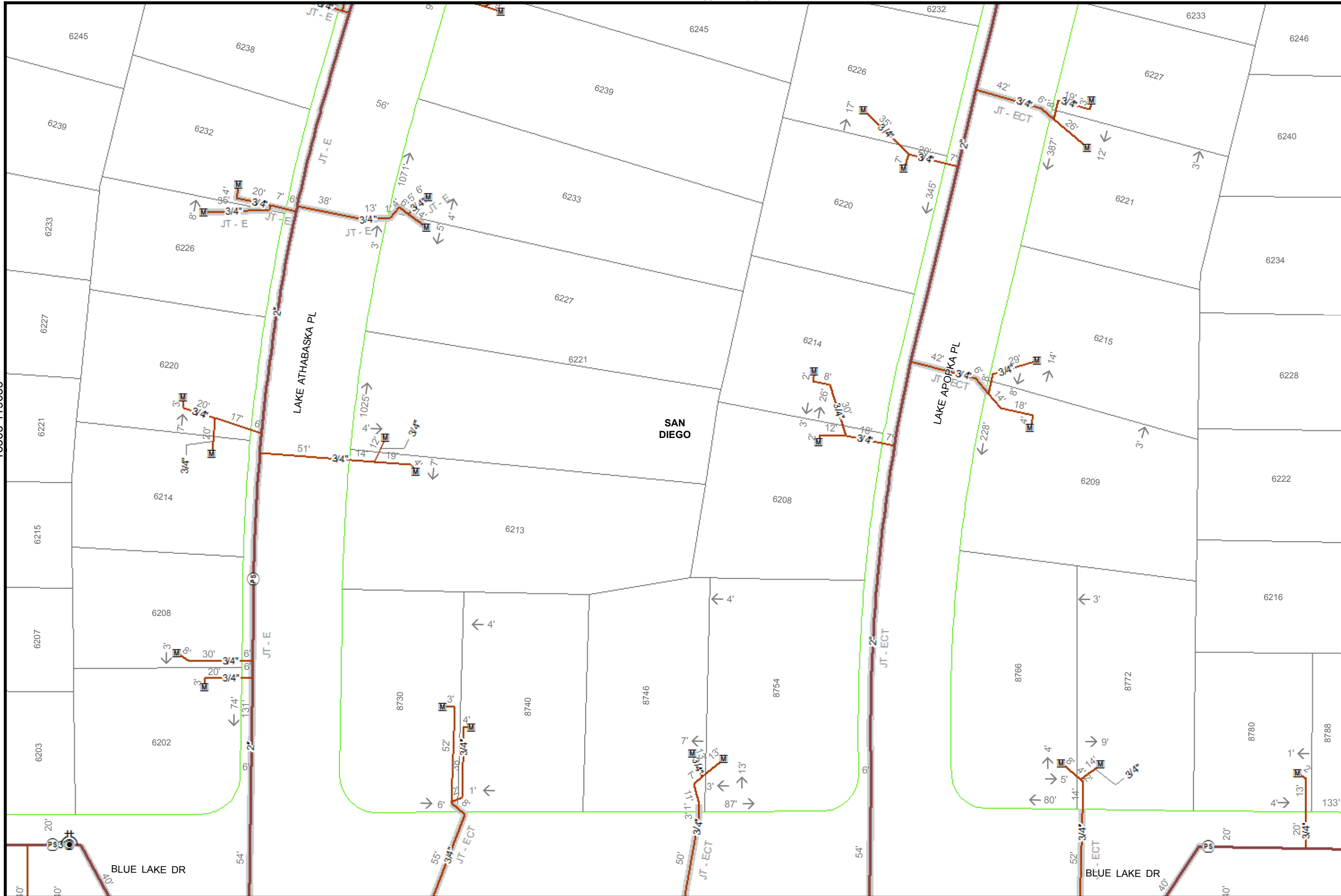
  
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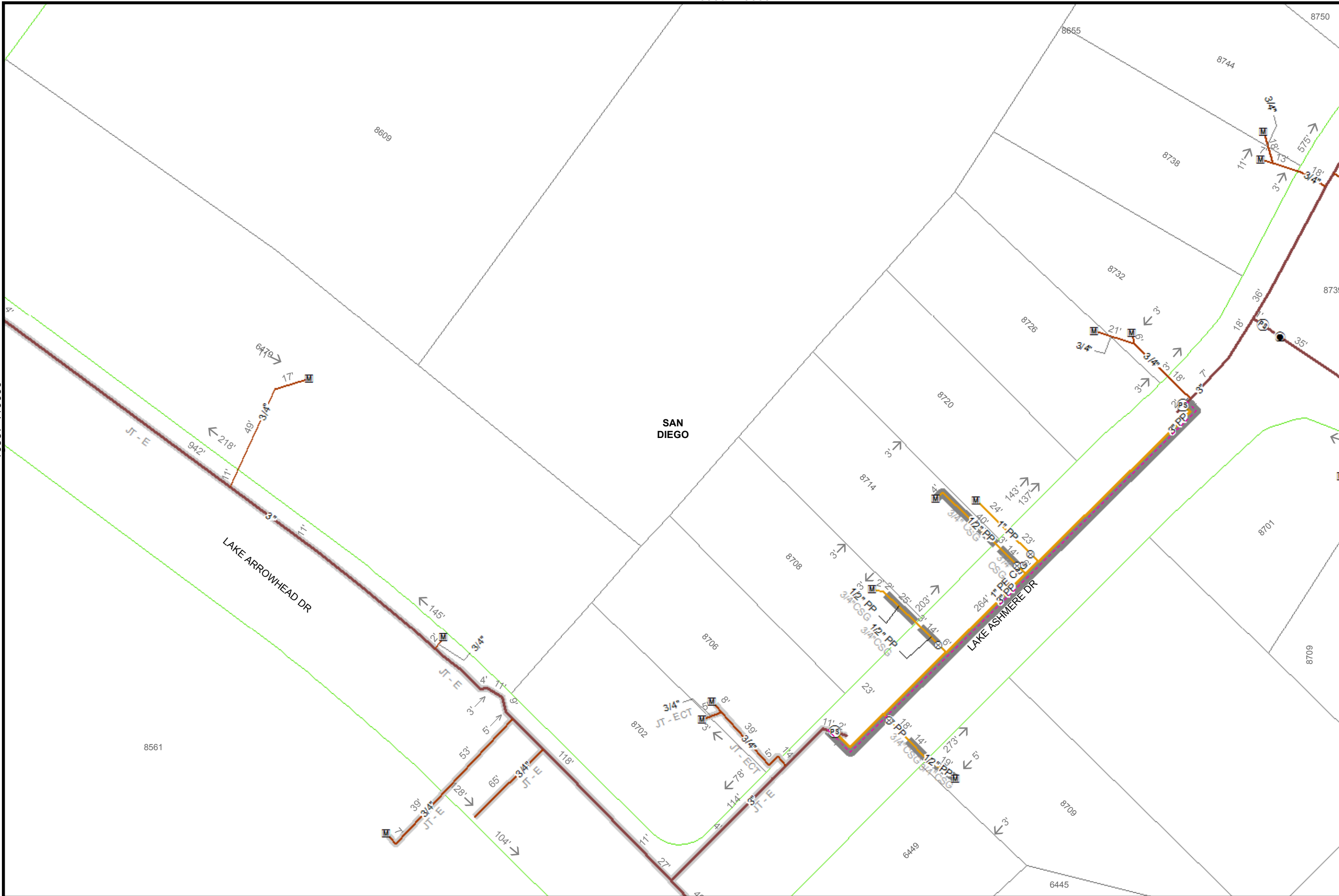


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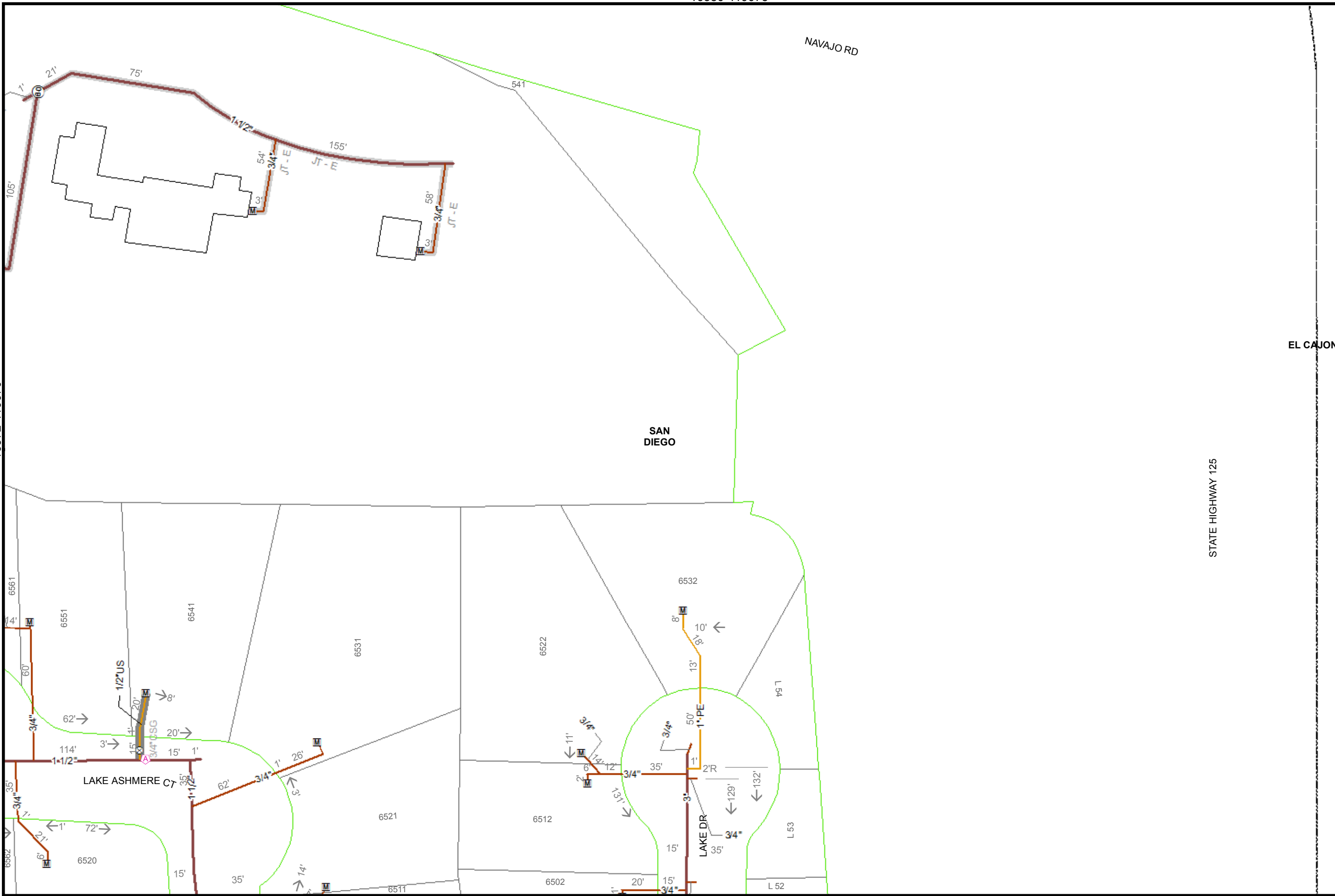
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NAVAJO RD

EL CAJON

STATE HIGHWAY 125

SAN DIEGO

  
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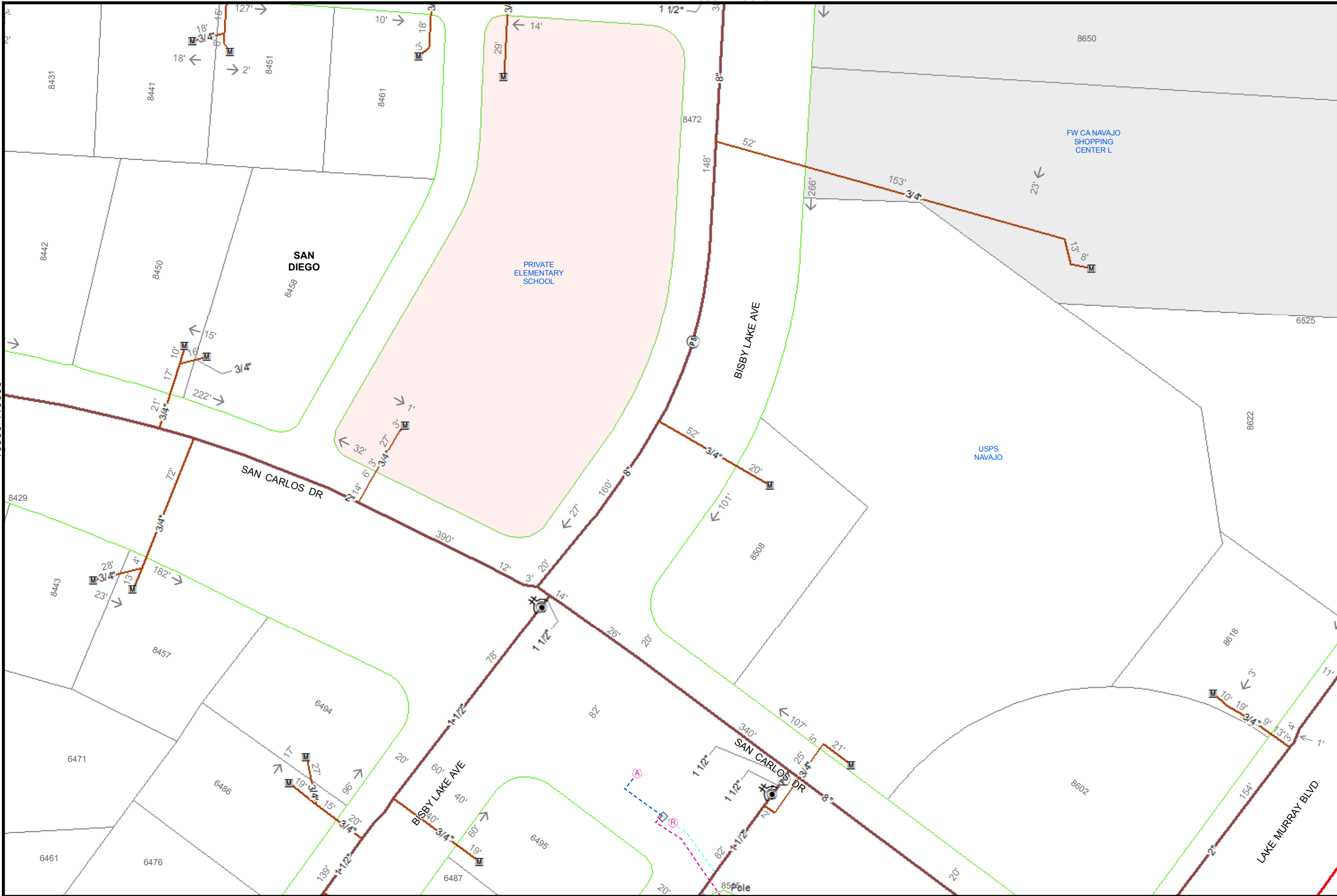




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16357-119060



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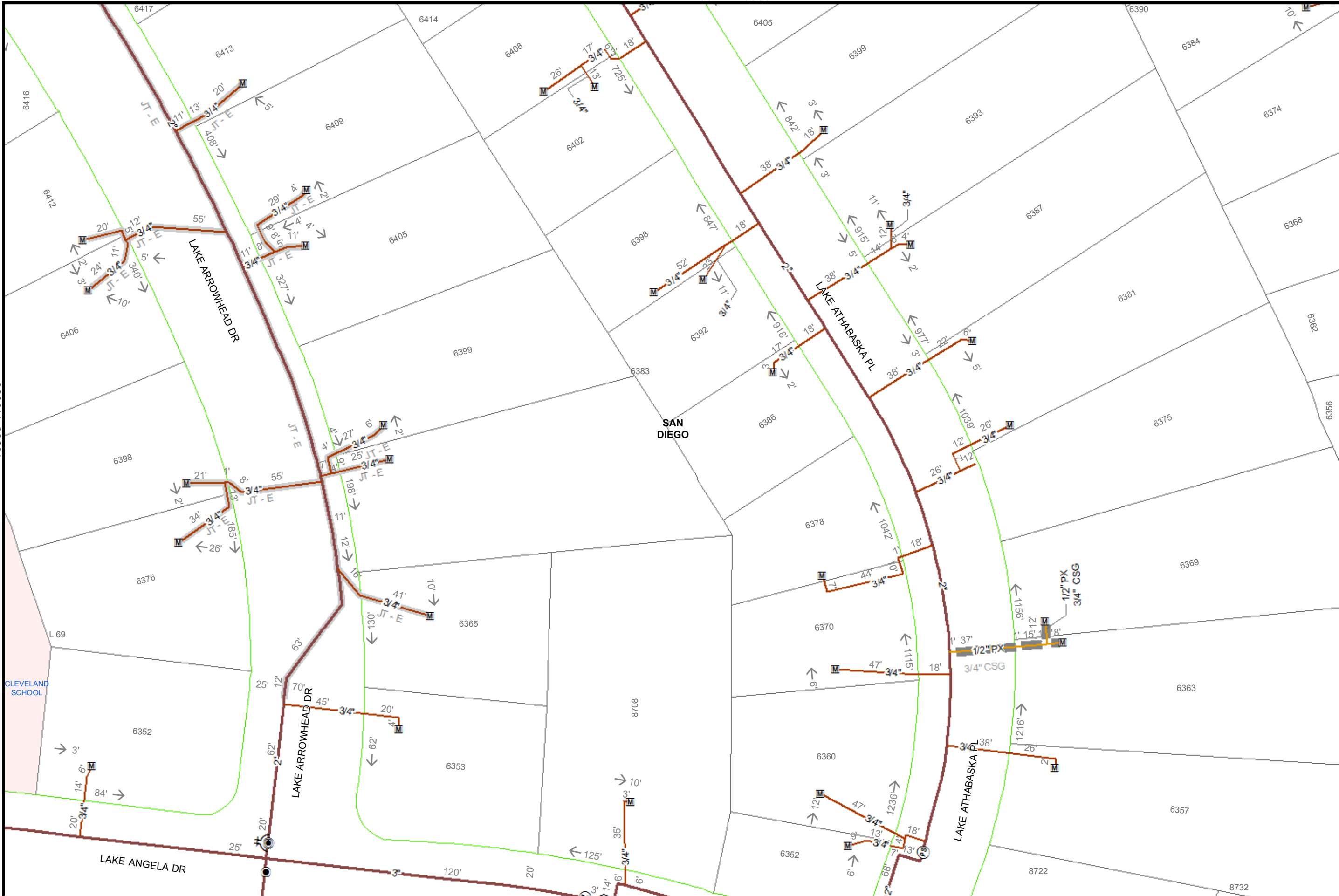
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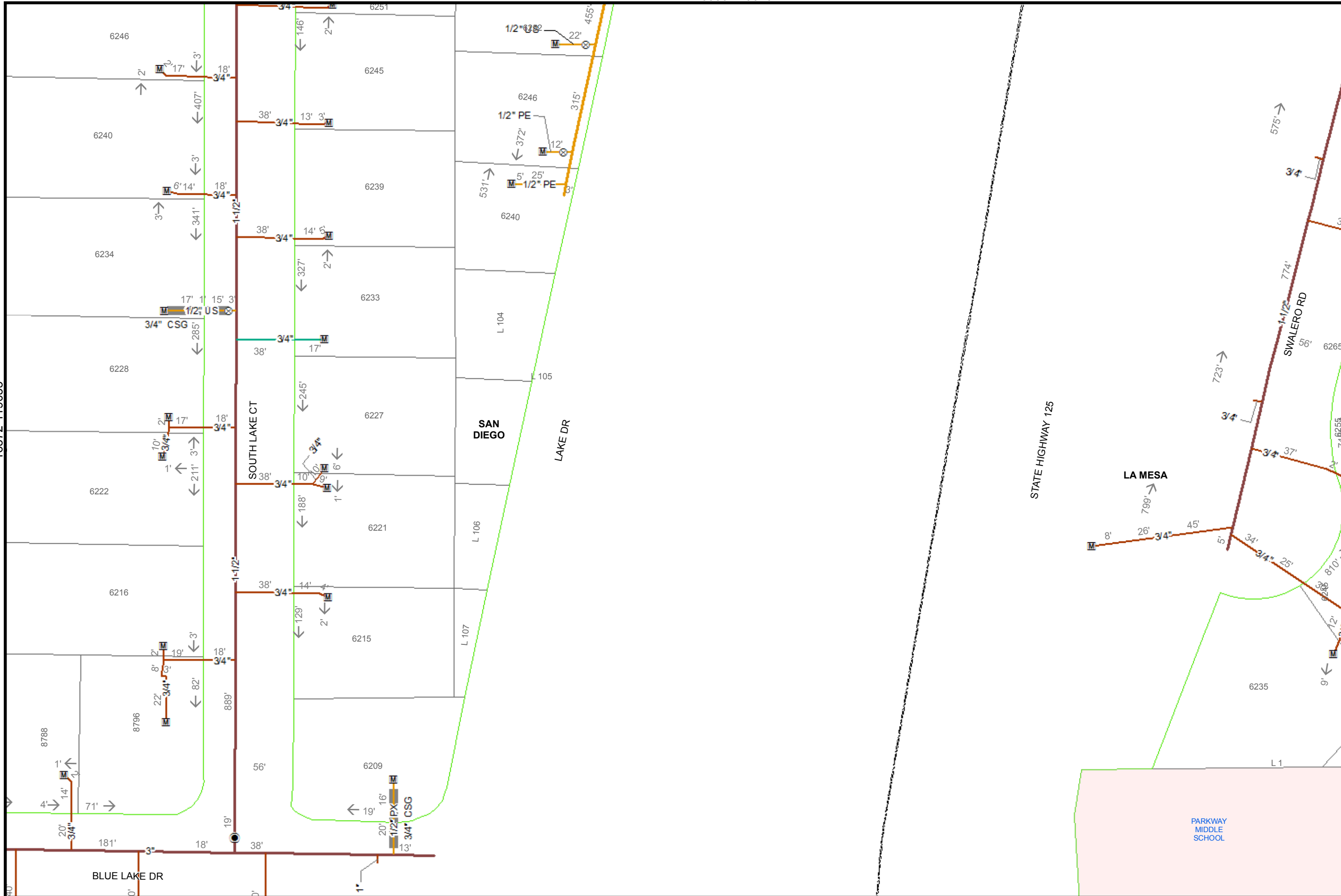
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STATE HIGHWAY 125



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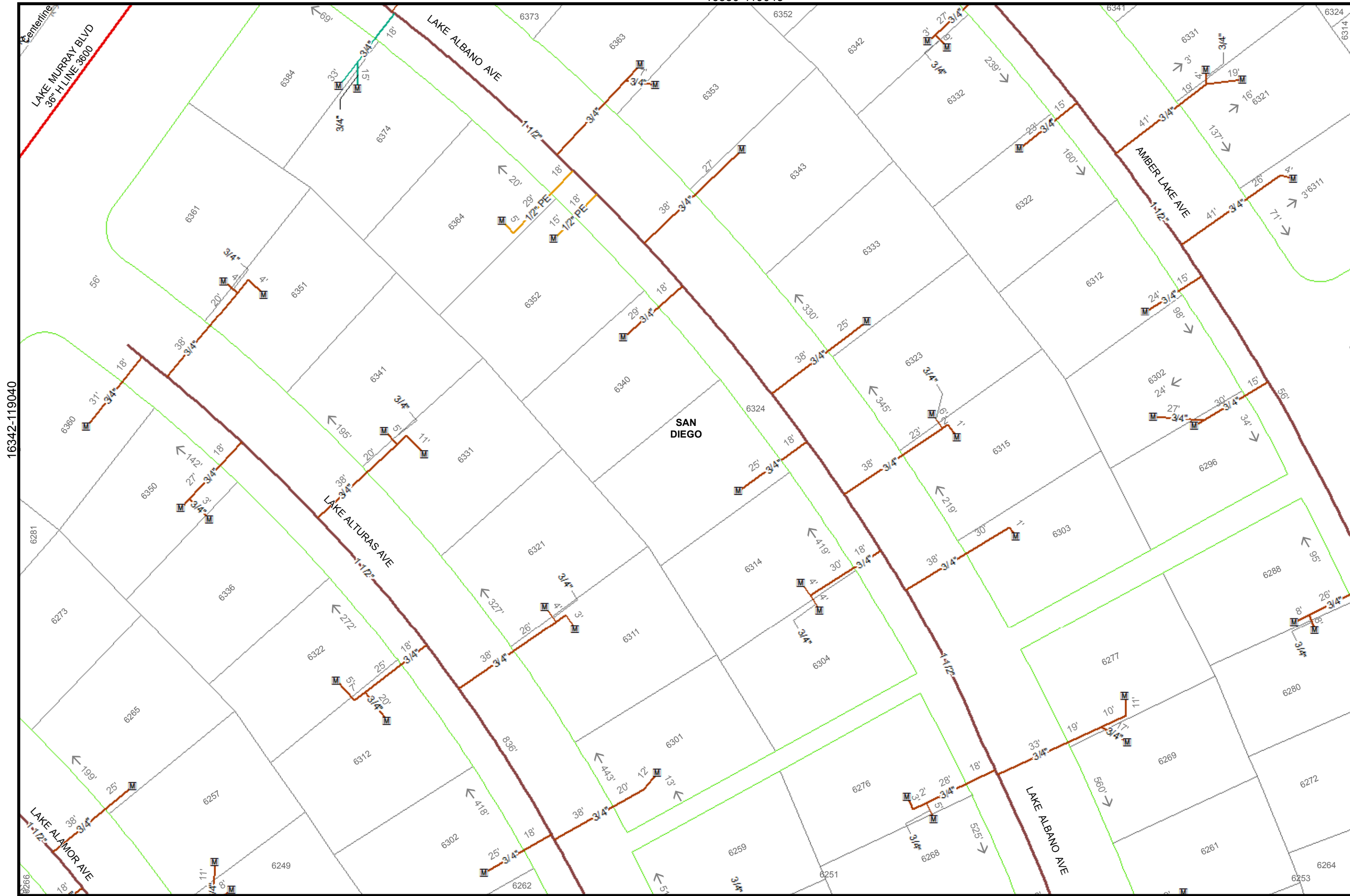
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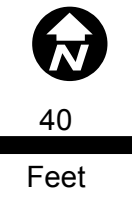
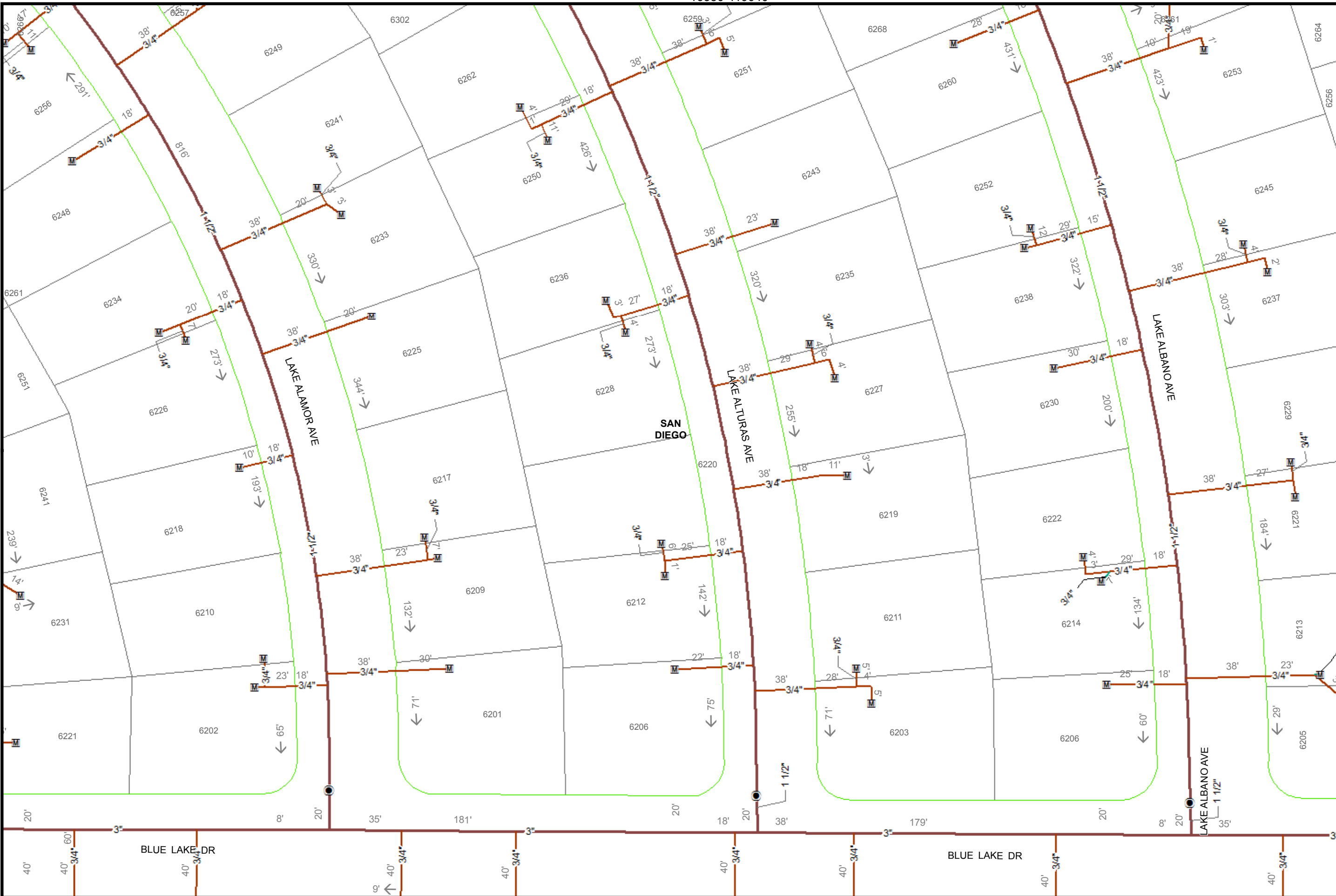


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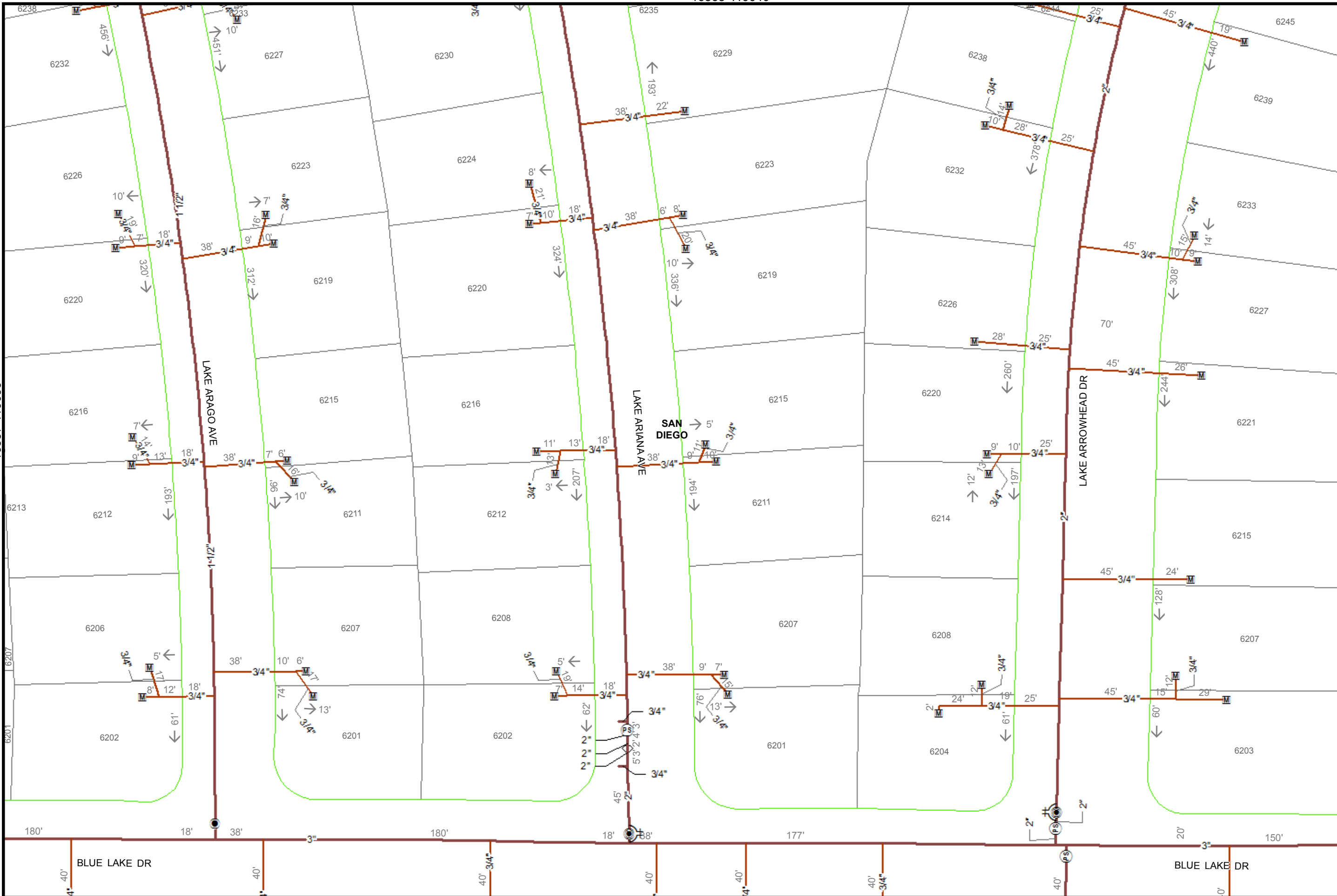




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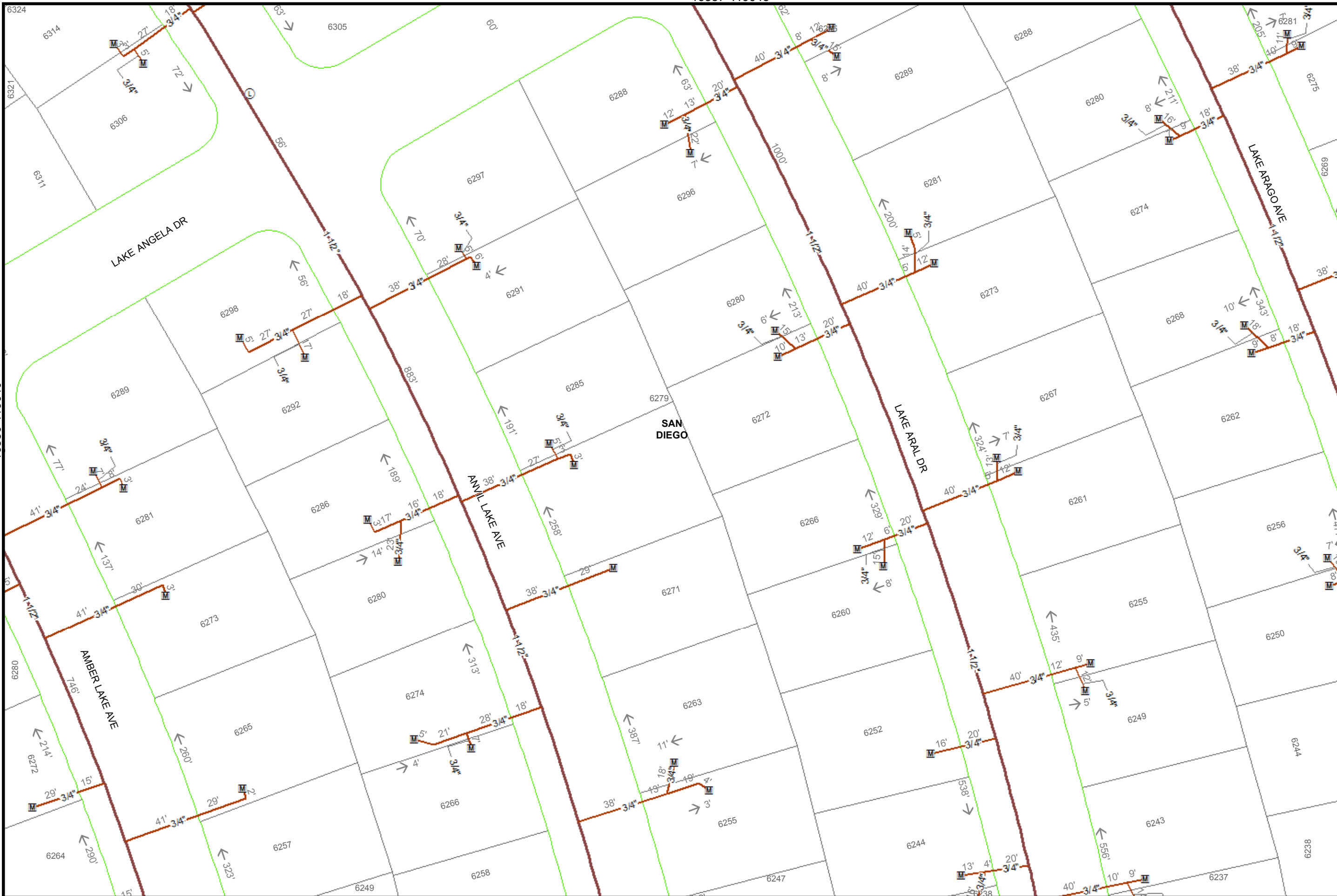
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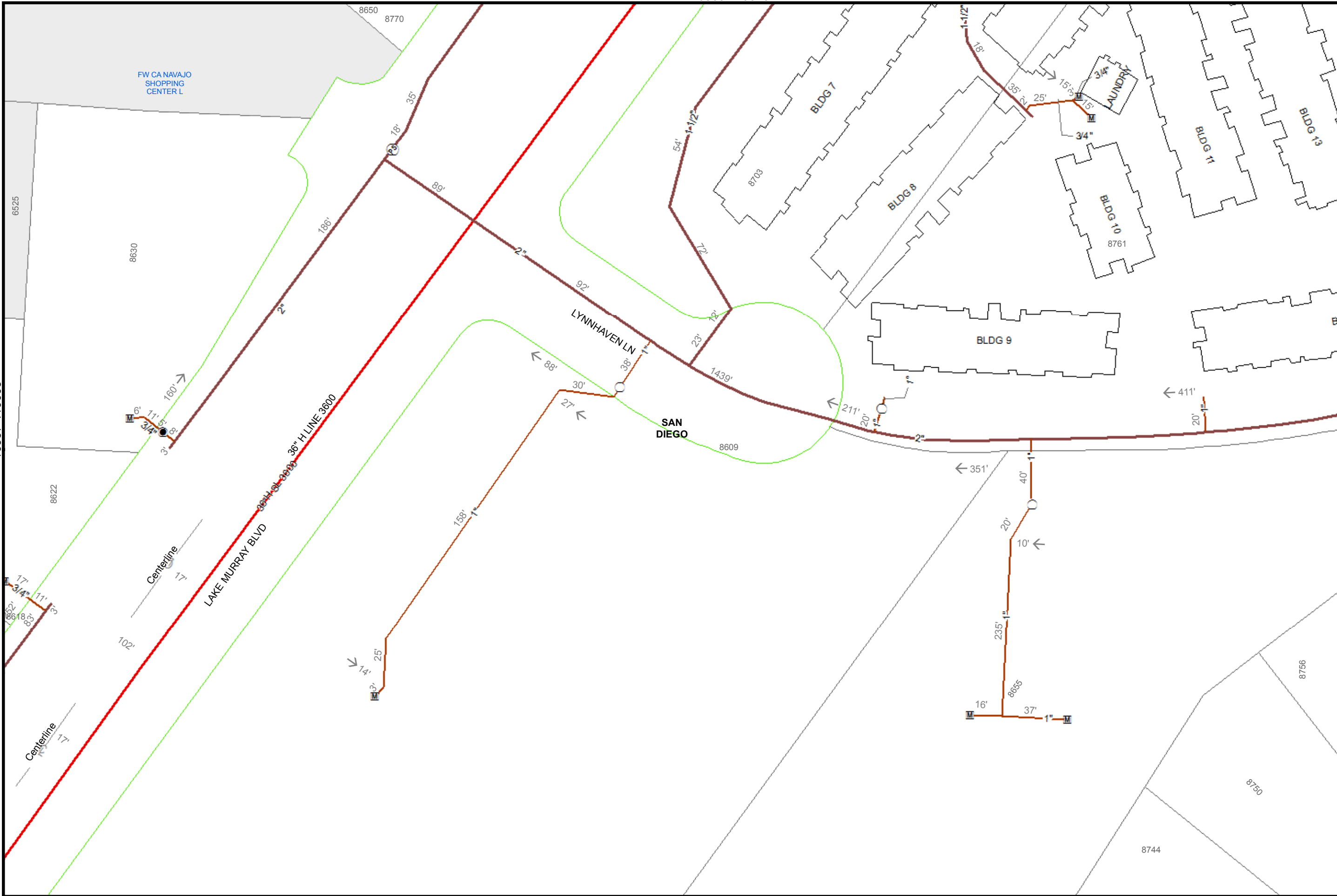
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16357-119065

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16365-119060



  
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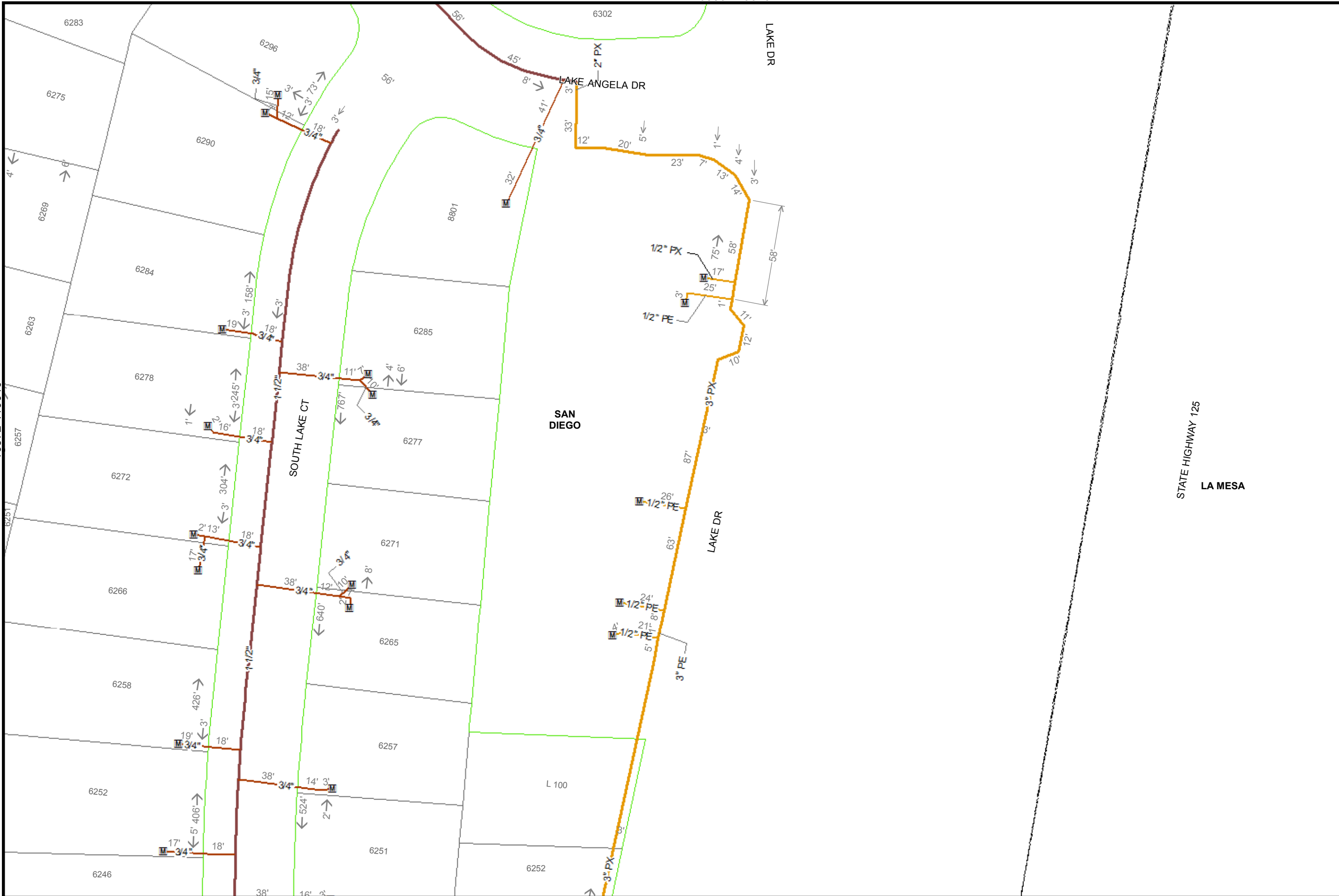
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16372-119065  
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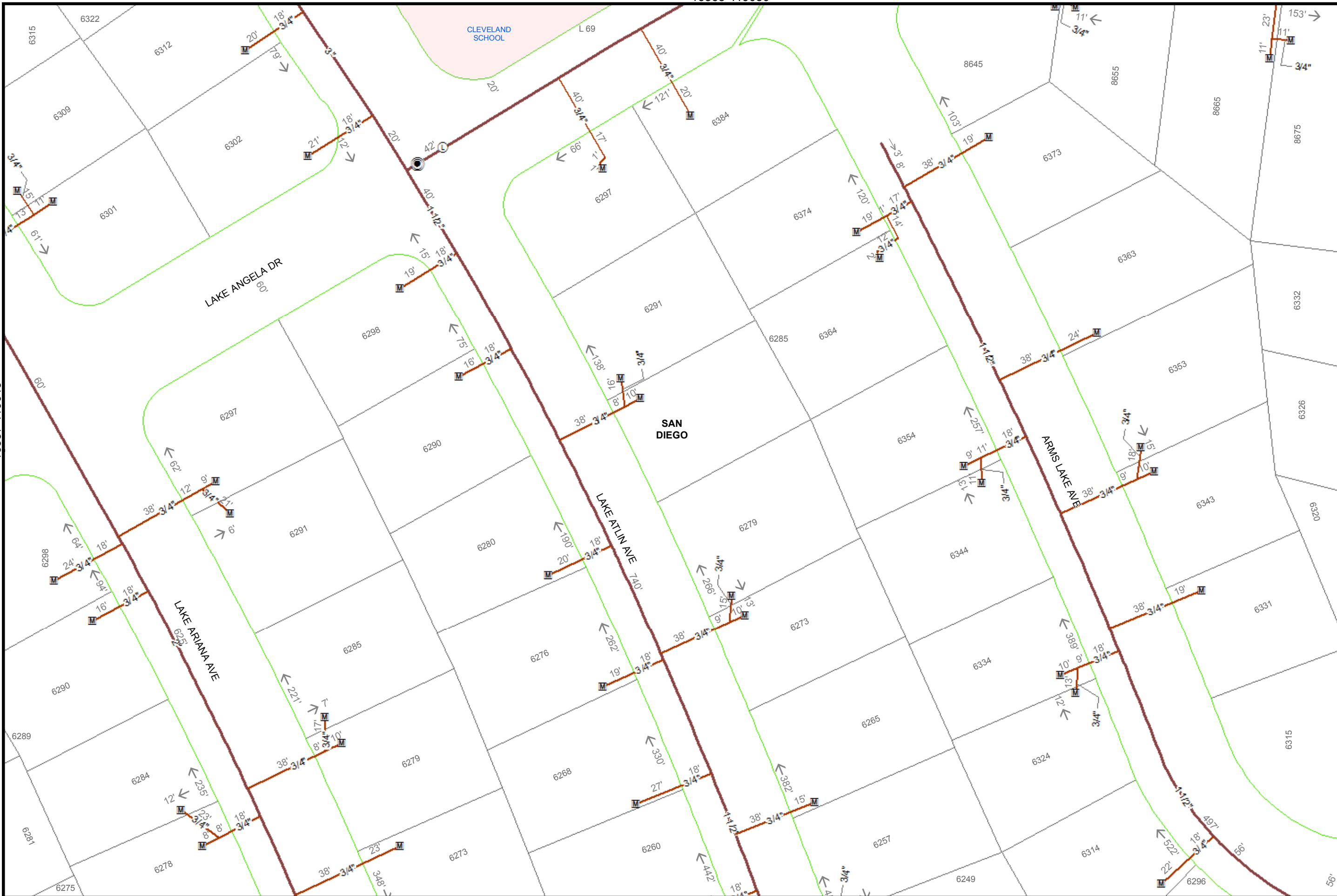
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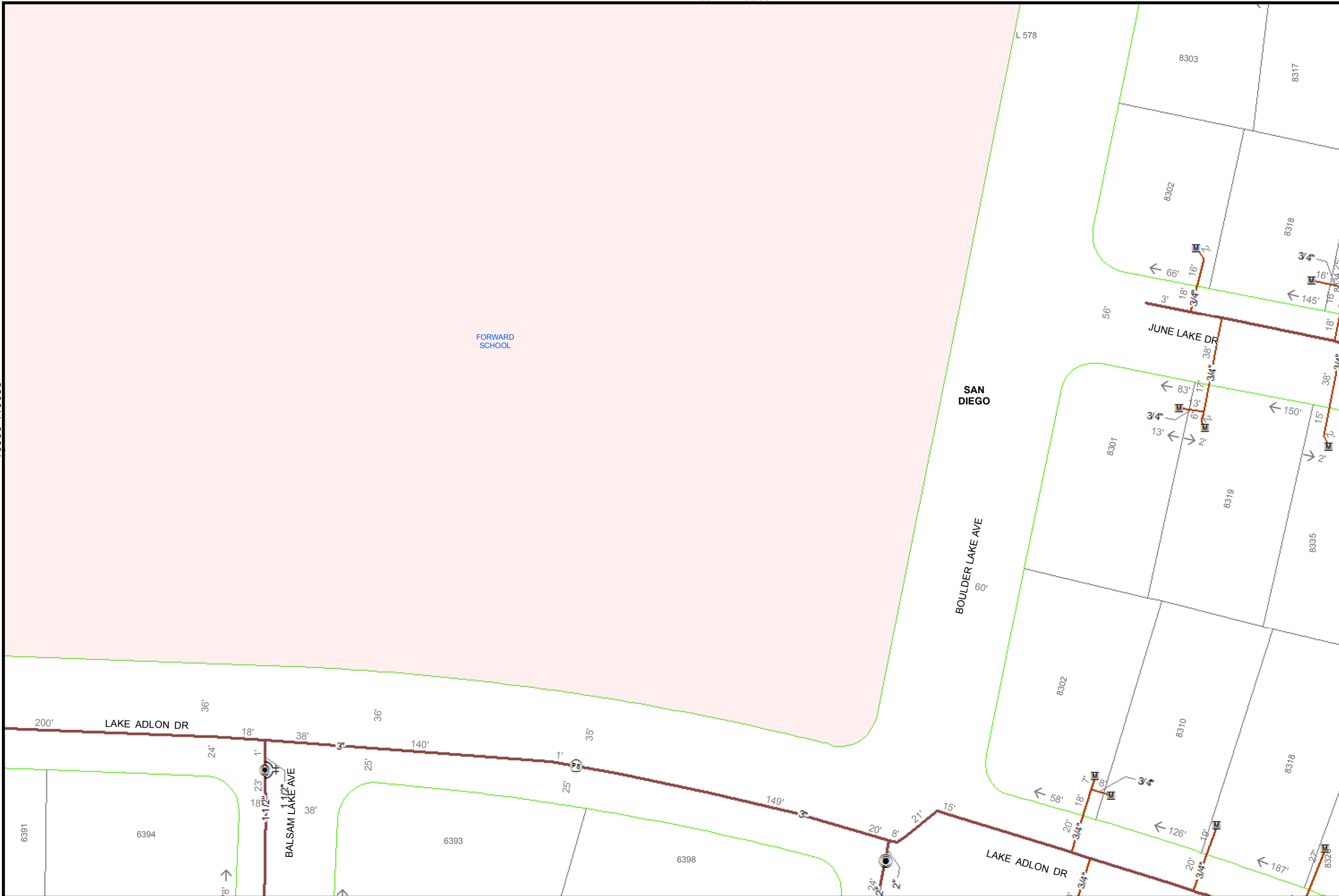


  
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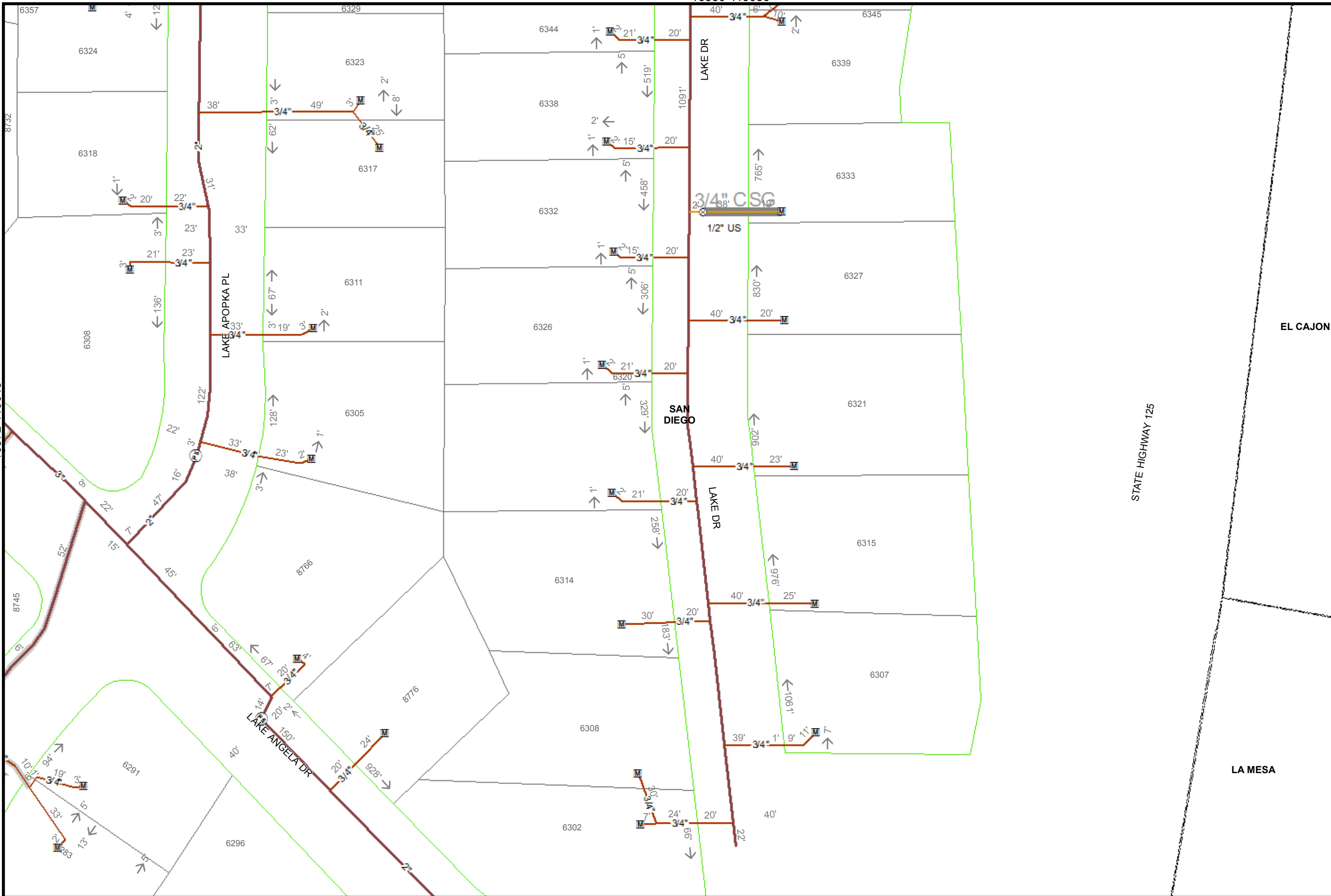
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16372-119045



16380-119050

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16387-119045

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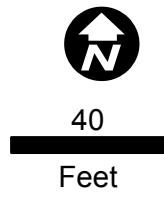
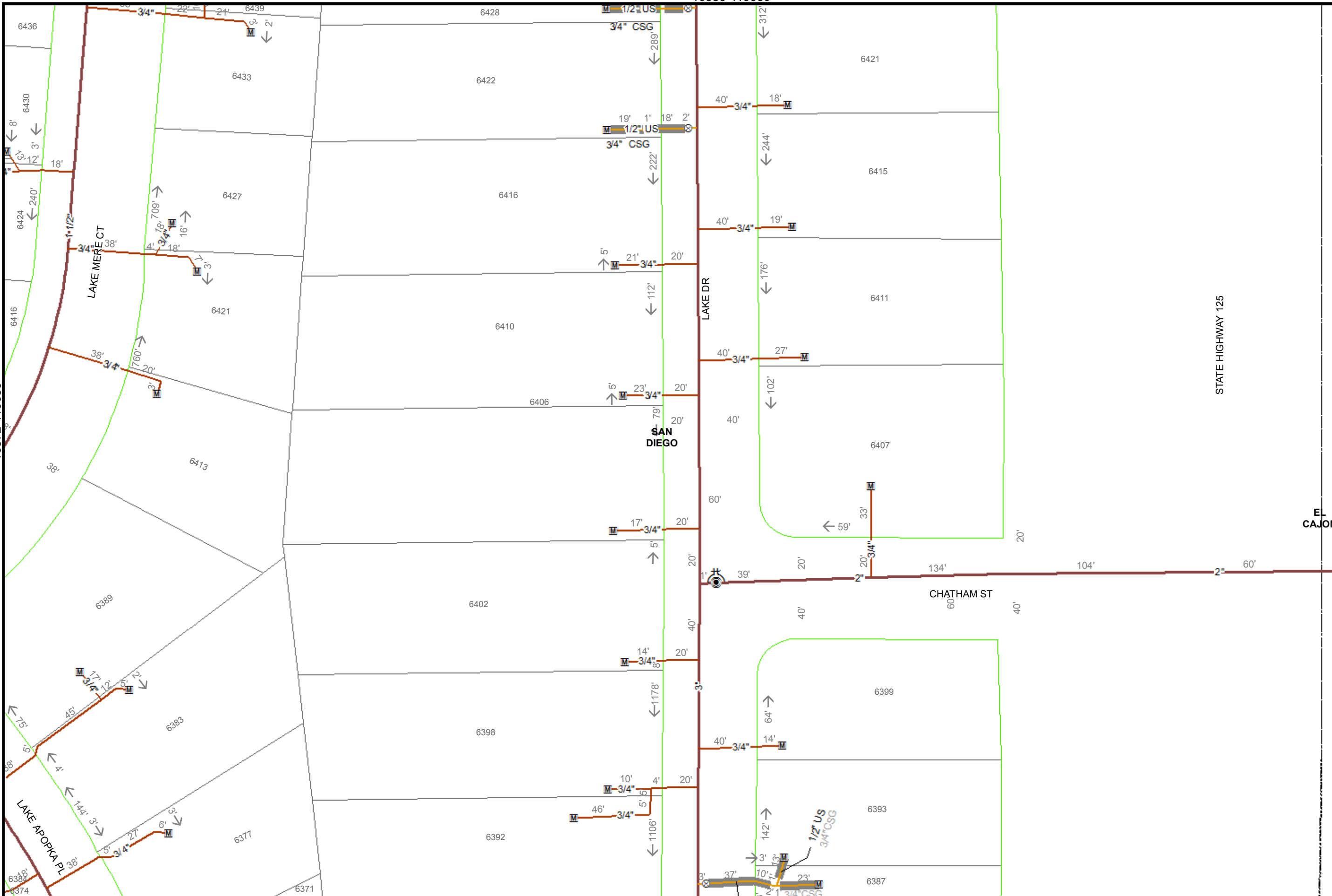


Sempra Energy utility

16372-119055

16380-119060

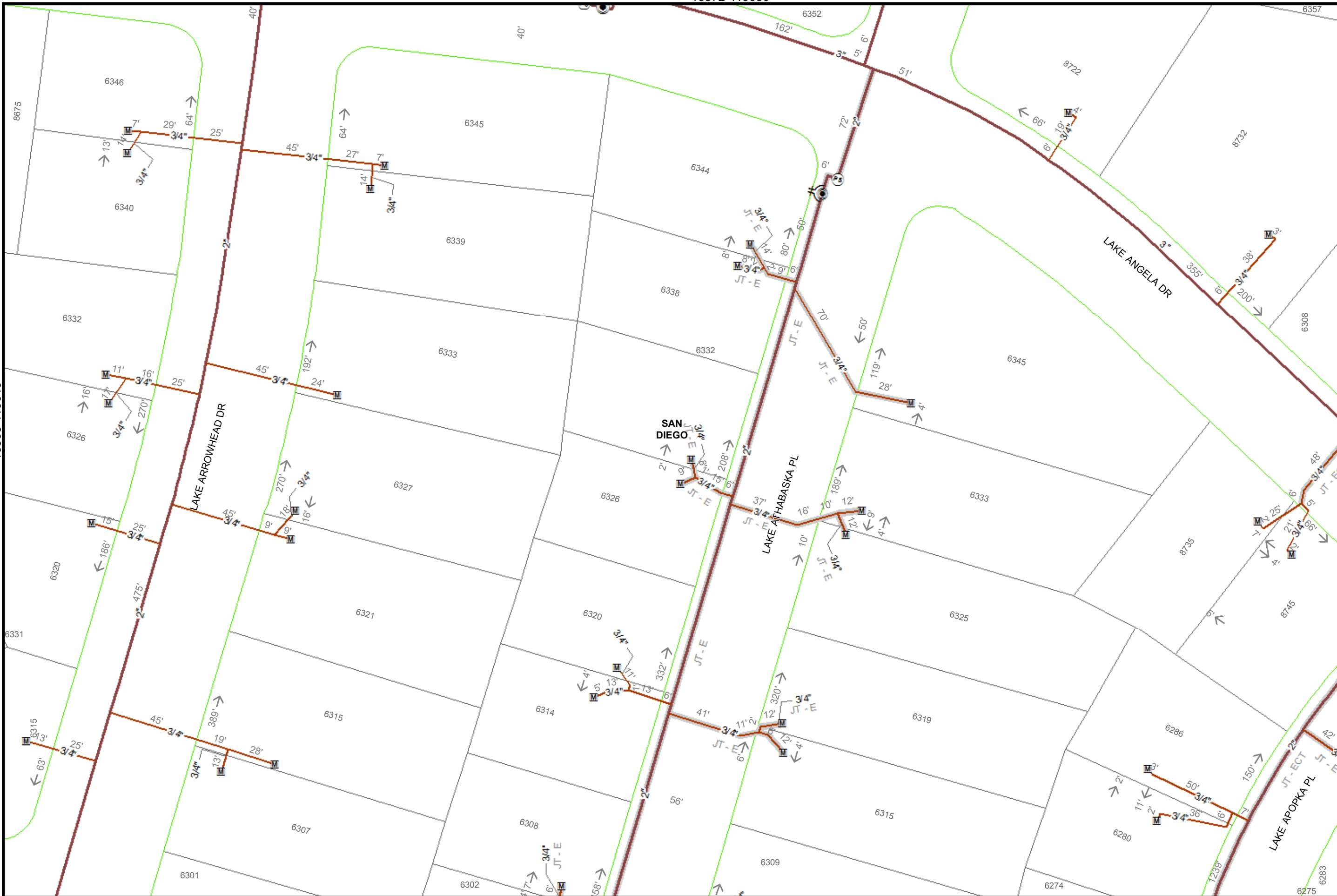
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Map Number:	16380-119055
Map Type:	Gas Asset Map
Printed By:	ekaufma1
Printed Date:	12/13/2017

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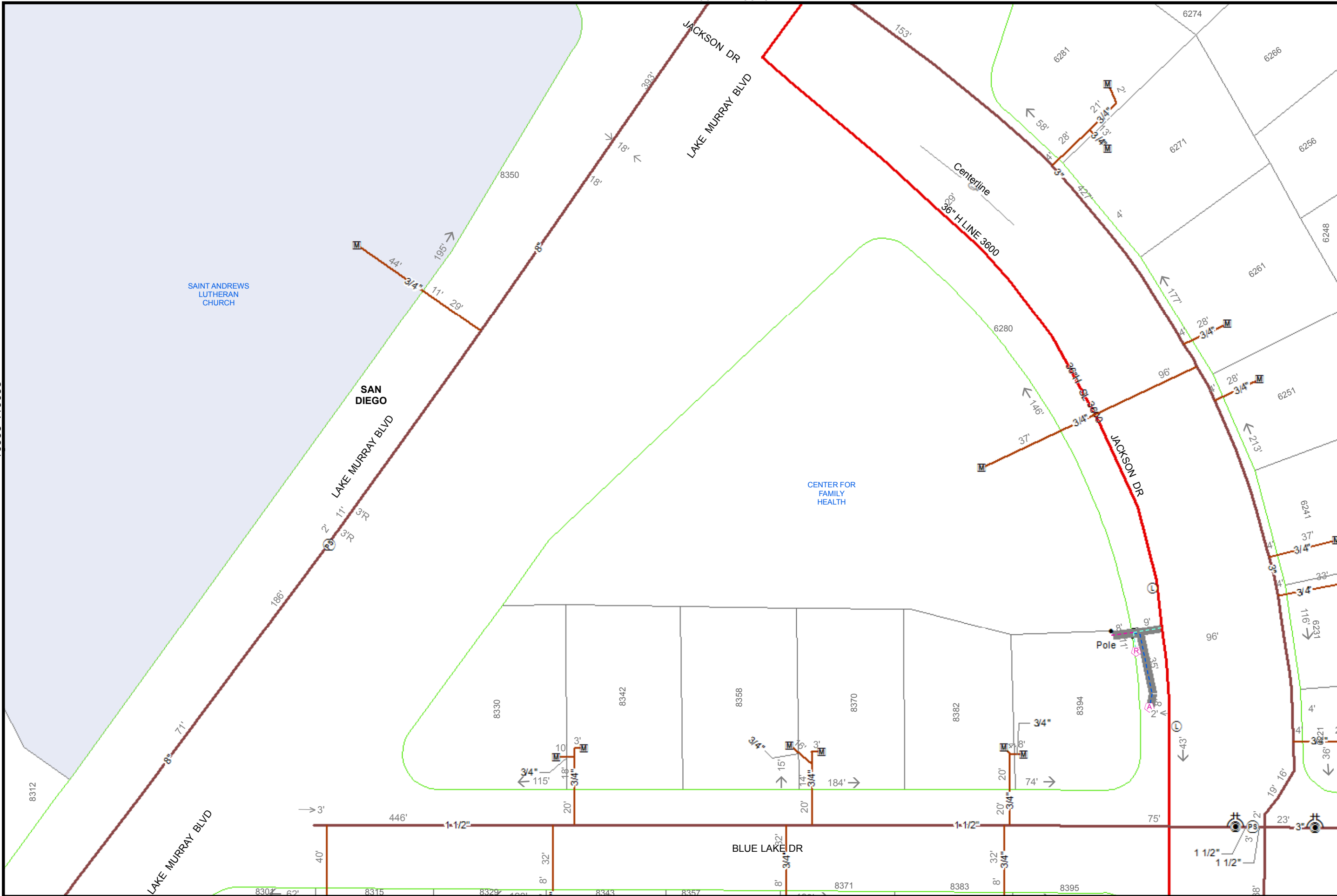
  
 40  
 Feet

Map Number:	16372-119045
Map Type:	Gas Asset Map
Printed By:	ekaufma1
Printed Date:	12/13/2017

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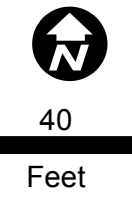


16335-119035



16342-119040

16342-119030

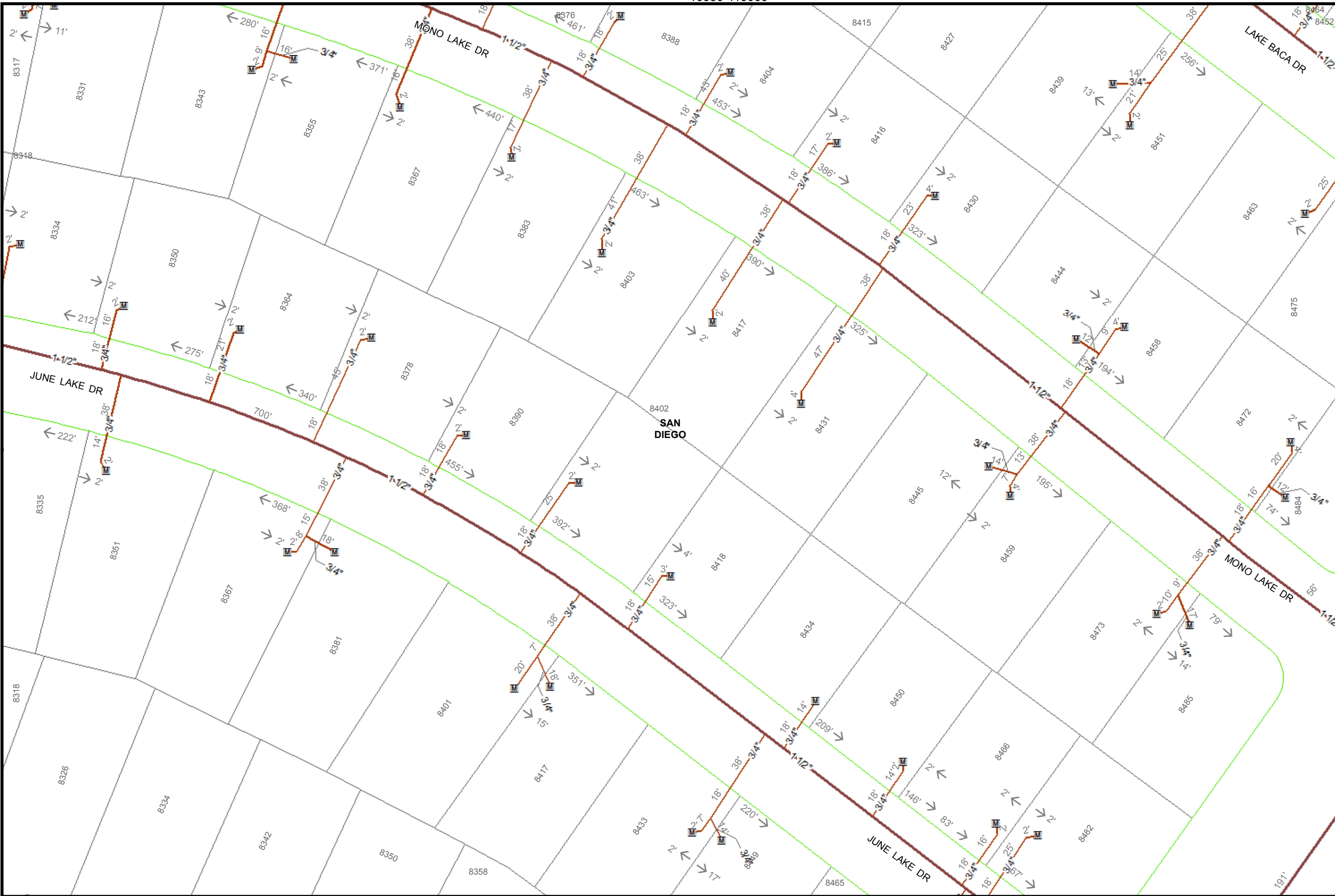


Map Number:	16342-119035
Map Type:	Gas Asset Map
Printed By:	ekaufma1
Printed Date:	12/13/2017

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16350-119035  
119035



40

Feet

Map Number: 16350-119055

Map Type: Gas Asset Map

Printed By: ekaufma1

Printed Date: 12/13/2017

16357-119055

119055

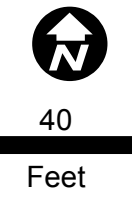
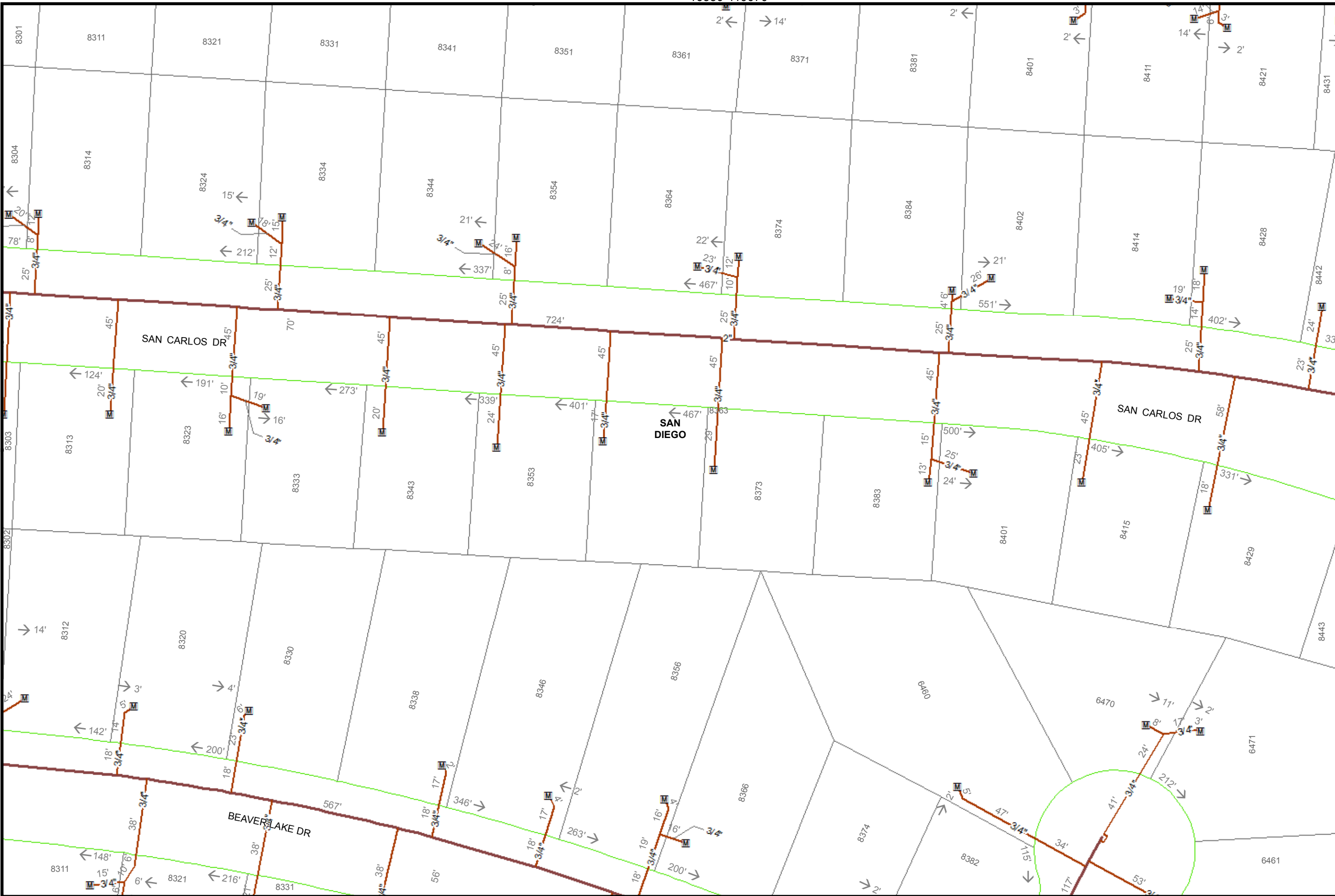
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 Sempra Energy utility







Map Number:	16350-119065
Map Type:	Gas Asset Map
Printed By:	ekaufma1
Printed Date:	12/13/2017

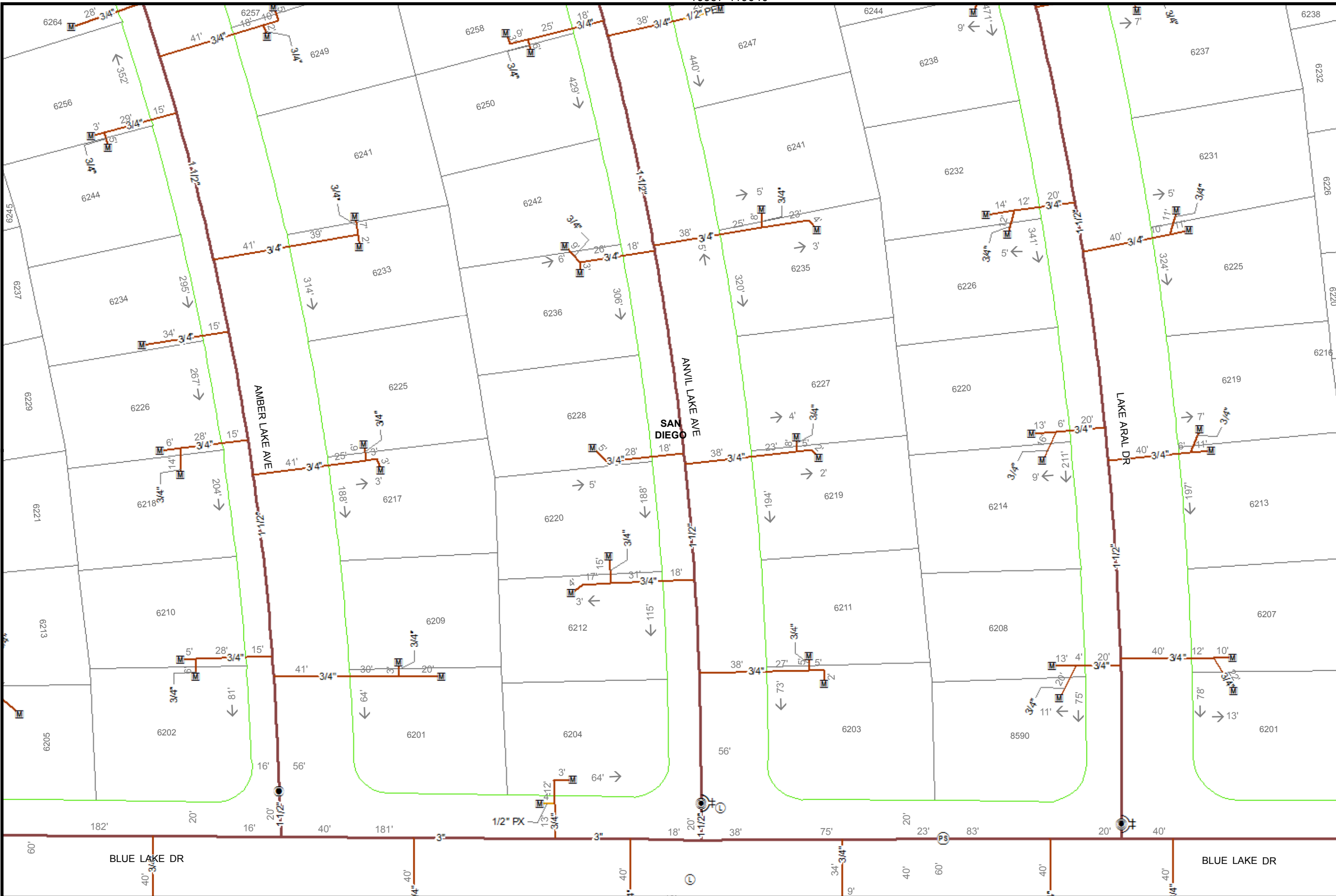
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16357-119065  
119065

16357-119040

16350-119035



40  
Feet

Map Number:	16357-119035
Map Type:	Gas Asset Map
Printed By:	ekaufma1
Printed Date:	12/13/2017

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16365-119035

16357-119030

**ATTACHMENT F**  
**RESERVED**

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

## CONTRACT 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 and Trenchless Corp**, herein called "Contractor" for construction of **Pipeline Rehabilitation AQ-1; Bid No. K-19-1812-DBB-3**; in the amount of **Four Million Two Hundred Nine Thousand Five Hundred Ten Dollars and Ten Cents (\$4,209,510.10)**, which is comprised of the Base Bid.

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

1. The following are incorporated into this contract as though fully set forth herein:
  - (a) The attached Faithful Performance and Payment Bonds.
  - (b) The attached Proposal included in the Bid documents by the Contractor.
  - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
  - (d) Phased Funding Schedule Agreement.
  - (e) That certain documents entitled **Pipeline Rehabilitation AQ-1**, on file in the office of the Public Works Department as Document No. **B-17151**, 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 AQ-1**, Bid Number **K-19-1812-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 AGREEMENT (continued)

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

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

Mara W. Elliott, City Attorney

By Stephen Samara

By Pedro De Lara, Jr.

Print Name: Stephen Samara  
Principal Contract Specialist  
Public Works Department

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

Date: 9/23/2019

Date: 9/30/19

CONTRACTOR

By Justin Duchaineau

Print Name: Justin Duchaineau

Title: President

Date: 7-29-2019

City of San Diego License No.: B2003006118

State Contractor's License No.: 773862 - A

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000002176

## CERTIFICATIONS AND FORMS

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

## **BIDDER'S GENERAL INFORMATION**

To the City of San Diego:

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

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



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

State of California

County of San Diego

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

## CONTRACTOR CERTIFICATION

---

### DRUG-FREE WORKPLACE

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

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

## CONTRACTOR CERTIFICATION

---

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

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

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

## **CONTRACTOR CERTIFICATION**

---

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

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

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

## **CONTRACTOR CERTIFICATION**

---

### **EQUAL BENEFITS ORDINANCE CERTIFICATION**

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

## **CONTRACTOR CERTIFICATION**

---

### **EQUAL PAY ORDINANCE CERTIFICATION**

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

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

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

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

**AFFIDAVIT OF DISPOSAL**

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

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

**Pipeline Rehabilitation AQ-1**

(Project Title)

as particularly described in said contract and identified as Bid No. **K-19-1812-DBB-3**; SAP No. (WBS/IO/CC) **B-17151**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

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

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

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

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

**ATTEST:**

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

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

Notary Public in and for said County and State

**LIST OF SUBCONTRACTORS**

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

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

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>Ⓞ</sup>	WHERE CERTIFIED <sup>Ⓢ</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

- Ⓞ 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 |  |         |
- Ⓢ As appropriate, Bidder shall indicate if Subcontractor is certified by:
- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission               | CPUC   |  |          |
| State of California's Department of General Services | CADoGS | City of Los Angeles                              | LA       |
| State of California                                  | CA     | U.S. Small Business Administration               | SBA      |

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



**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

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

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

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

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

## **ELECTRONICALLY SUBMITTED FORMS**

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

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

- A. BID BOND – See Instructions to Bidders, Bidders Guarantee of Good Faith (Bid Security) for further instructions**
- B. CONTRACTOR’S CERTIFICATION OF PENDING ACTIONS**
- C. MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**
- D. SUBCONTRACTOR LISTING (OTHER THAN FIRST TIER)**

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

**BID BOND**

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

KNOW ALL MEN BY THESE PRESENTS,

That Southwest Pipeline and Trenchless Corp. as Principal, and  
Liberty Mutual Insurance Company as Surety, are

held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of **10% OF THE TOTAL BID AMOUNT** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled

Pipeline Rehabilitation AQ-1-K-19-1812-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 15th day of May, 2019

Southwest Pipeline and Trenchless Corp. (SEAL)

Liberty Mutual Insurance Company (SEAL)

(Principal)

(Surety)

By: [Signature]

By: [Signature]

(Signature)

Noemi Quiroz, Attorney-in-Fact  
(Signature)

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**Civil Code § 1189**

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

State of California )  
 ) ss  
County of Los Angeles )

On May 15, 2019, before me, Natalie K. Trofimoff, 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: *Natalie K. Trofimoff*  
Natalie K. Trofimoff, Notary Public

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



**Liberty Mutual.**

**SURETY**

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

**POWER OF ATTORNEY**

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

Principal Name: Southwest Pipeline and Trenchless Corp.

Obligee Name: The City of San Diego

Surety Bond Number: 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 12<sup>th</sup> day of December, 2018.



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

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

STATE OF PENNSYLVANIA  
COUNTY OF MONTGOMERY

ss

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

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



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

By: Teresa Pastella  
Teresa Pastella, Notary Public

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

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

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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 15th day of May, 2019



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

## CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

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

CHECK ONE BOX ONLY.

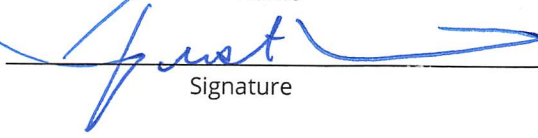
- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
- The undersigned certifies that within the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

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

Contractor Name: Southwest Pipeline & Trenchless Corp.

Certified By Justin Duchaineau Title President

Name



Signature

Date 6-10-2019

**USE ADDITIONAL FORMS AS NECESSARY**

## Mandatory Disclosure of Business Interests Form

### BIDDER/PROPOSER INFORMATION

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

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

\* The precise nature of the interest includes:

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

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

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

Name	Title/Position
Justin Duchaineau	President
City and State of Residence	Employer (if different than Bidder/Proposer)
Los Angeles, California	

Interest in the transaction  
 Preparing and submitting the bid for the purpose of contracting with the City of San Diego

Name	Title/Position
Robert E. Bolger-	Secretary
City and State of Residence	Employer (if different than Bidder/Proposer)
Pasadena, California	

Interest in the transaction  
 Preparing and submitting the bid for the purpose of contracting with the City of San Diego

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

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

Justin Duchaineau-President		6-10-2019
Print Name, Title	Signature	Date

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

**SUBCONTRACTOR LISTING**  
**(OTHER THAN FIRST TIER)**

Pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder is to list below the name, address, license number, DIR registration number of any (known tiered subcontractor) - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract. If none are known at this time, mark the table below with non-applicable (N/A).**

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK
Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____	N/A	N/A	N/A	N/A
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				

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



**Bid Results**

**Bidder Details**

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

**Bid Detail**

**Bid Format** Electronic  
**Submitted** June 11, 2019 1:27:32 PM (Pacific)  
**Delivery Method**  
**Bid Responsive**  
**Bid Status** Submitted  
**Confirmation #** 178198  
**Ranking** 0

**Respondee Comment**

**Buyer Comment**

**Attachments**

File Title	File Name	File Type
Contractor's Certification of Pending Actions	Contractor's Certification of Pending Actions.pdf	Contractor's Certification of Pending Actions
mandatory Disclosure of Business Interest Form	Mandatory Disclosure of Business Interest Form.pdf	Mandatory Disclosure of Business Interests
Tiered Sub List	Tiered Subs List.pdf	Subcontractor Listing (Other Than First Tier)
Bid Bond	Bid Bond.pdf	Bid Bond

**Line Items**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
<b>Main Bid</b>						
1	Bonds (Payment and Performance)					
	524126	LS	1	\$30,000.00	\$30,000.00	
2	Sewage Bypass and Pumping Plan (Diversion Plan)					
	237110	LS	1	\$2,000.00	\$2,000.00	
3	WPCP Development					
	541330	LS	1	\$500.00	\$500.00	
4	WPCP Implementation					
	237990	LS	1	\$1,000.00	\$1,000.00	

**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
5	Video Recording of Existing Conditions					
	238990	LS	1	\$1,000.00	\$1,000.00	
6	Mobilization					
	237110	LS	1	\$5,000.00	\$5,000.00	
7	Field Orders (EOC Type II)					
		AL	1	\$200,000.00	\$200,000.00	
8	Temporary Resurfacing					
	237310	TON	45	\$100.00	\$4,500.00	
9	Asphalt Pavement Repair					
	237310	TON	30	\$100.00	\$3,000.00	
10	Rubber Polymer Modified Slurry (RPMS) Type I					
	237310	SF	119800	\$0.28	\$33,544.00	
11	Rubber Polymer Modified Slurry (RPMS) Type II					
	237310	SF	119800	\$0.30	\$35,940.00	
12	Adjust Existing Manhole Frame and Cover to Grade					
	237310	EA	5	\$2,000.00	\$10,000.00	
13	Adjust Survey Monument to Grade					
	237310	EA	2	\$1,000.00	\$2,000.00	
14	Cross gutter					
	237310	SF	300	\$20.00	\$6,000.00	
15	Crack Seal					
	237310	LB	2024	\$4.40	\$8,905.60	
16	Curb Ramp (Type A) with Stainless Steel Detectable Warning Tiles					
	237310	EA	8	\$4,000.00	\$32,000.00	
17	Curb Ramp (Type Case B) with Stainless Steel Detectable Warning Tiles					
	237310	EA	1	\$4,000.00	\$4,000.00	
18	Curb Ramp (Type C2) with Stainless Steel Detectable Warning Tiles					
	237310	EA	1	\$4,450.00	\$4,450.00	
19	Curb Ramp (Type C1) with Stainless Steel Detectable Warning Tiles					
	237310	EA	4	\$4,325.00	\$17,300.00	
20	Historical and Contractor Date Stamps and Impressions					
	237310	EA	4	\$250.00	\$1,000.00	

**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
21	Curb Ramp (Type B) with Stainless Steel Detectable Warning Tiles					
	237310	EA	1	\$3,950.00	\$3,950.00	
22	Pedestrian Barricade (Type A)					
	237310	EA	5	\$750.00	\$3,750.00	
23	Pavement Restoration Adjacent to Trench					
	237310	SF	50	\$15.00	\$750.00	
24	Manholes (4 ft x 3 ft)					
	237110	EA	12	\$10,500.00	\$126,000.00	
25	Sewer Main Cleanout					
	237110	EA	31	\$3,950.00	\$122,450.00	
26	Cleaning and Video Inspection of Existing Pipelines and Culverts					
	237110	LF	42685	\$1.00	\$42,685.00	
27	Cleaning and Video Inspection of Existing Laterals					
	237110	EA	1105	\$1.00	\$1,105.00	
28	Video Inspection of Pipelines and Culverts for Acceptance					
	237110	LF	42685	\$0.50	\$21,342.50	
29	Removal and Replacement of Existing Thermoplastic Striping and Markings, Including Paint Striping					
	237310	LS	1	\$2,500.00	\$2,500.00	
30	Rehabilitate Sewer Main (8 Inch)					
	237110	LF	41447	\$21.00	\$870,387.00	
31	Rehabilitate Sewer Main (10 Inch)					
	237110	LF	1238	\$23.00	\$28,474.00	
32	Point Repair for Existing Sewer Main (8 Inch)					
	237110	EA	21	\$4,500.00	\$94,500.00	
33	Additional Point Repair for Existing Sewer Main (8 Inch)					
	237110	LF	120	\$80.00	\$9,600.00	
34	Service Lateral Rehabilitation with Cleanout up to 7 ft in Depth					
	237110	EA	314	\$1,750.00	\$549,500.00	
35	Service Lateral Rehabilitation with Cleanout greater than 7 ft in Depth					
	237110	EA	789	\$1,328.00	\$1,047,792.00	
36	Rehabilitate Existing Manhole					
	237110	EA	34	\$1,750.00	\$59,500.00	

**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
37	Service Lateral Connection					
	237110	EA	1119	\$715.00	\$800,085.00	
38	Traffic Control and Engineered Traffic Control Plans					
	541330	LS	1	\$5,000.00	\$5,000.00	
39	Rehabilitate Existing Manhole with Point Repair					
	237110	EA	10	\$1,800.00	\$18,000.00	
<b>Subtotal</b>					<b>\$4,209,510.10</b>	
<b>Total</b>					<b>\$4,209,510.10</b>	

**Subcontractors**

Name & Address	Description	License Num	CADIR	Amount	Type
<b>American Asphalt South, Inc.</b> PO Box 310036 14436 Santa Ana Ave Fontana, CA 92331 United States	Constructor- Slurry Seal and Crack Seal	784969	1000000645	\$73,091.60	CAU,MALE,CADIR,PQUAL
<b>Easy Flow</b> 14275 Crystal View Lane Poway, CA 92064 United States	Clean/CCTV, Lateral Rehab and Cleanouts, Mainline Open Cut	960845	1000010925	\$1,859,375.00	CADIR,CAU,MALE,SLBE
<b>Zebron Contracting, Inc</b> P.O. Box 2874 Newport Beach, CA 92659 United States	Constructor-Manhole Rehab and Manhole with point repair	855170	1000004993	\$76,500.00	
<b>Jerusalem Construction, Inc. DBA Miramar General Engineering</b> 1827 Cleveland Ave National City, CA 91950 United States	Constructor- Cross Gutter, Curb Ramps, Stamps, Barricades	1009541	1000033057	\$68,450.00	ELBE,PQUAL

Line Totals (Unit Price * Quantity)								
Item Num	Section	Item Code	Description	Reference	Unit of Measure	Quantity	Southwest Pipeline and Trenchless Corp. Unit Price	Southwest Pipeline and Trenchless Corp. - Line Total
1	Main Bid	524126	Bonds (Payment and Performance)	1-7.2.1	LS	1	\$30,000.00	\$30,000.00
2	Main Bid	237110	Sewage Bypass and Pumping Plan (Diversion Plan)	3-12.5.4	LS	1	\$2,000.00	\$2,000.00
3	Main Bid	541330	WPCP Development	1001-4.2	LS	1	\$500.00	\$500.00
4	Main Bid	237990	WPCP Implementation	1001-4.2	LS	1	\$1,000.00	\$1,000.00
5	Main Bid	238990	Video Recording of Existing Conditions	400-1.1.1	LS	1	\$1,000.00	\$1,000.00
6	Main Bid	237110	Mobilization	7-3.4.1	LS	1	\$5,000.00	\$5,000.00
7	Main Bid		Field Orders (EOC Type II)	7-3.9	AL	1	\$200,000.00	\$200,000.00
8	Main Bid	237310	Temporary Resurfacing	306-15.9	TON	45	\$100.00	\$4,500.00
9	Main Bid	237310	Asphalt Pavement Repair	301-1.7	TON	30	\$100.00	\$3,000.00
10	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type I	302-4.12.4	SF	119800	\$0.28	\$33,544.00
11	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type II	302-4.12.4	SF	119800	\$0.30	\$35,940.00

12	Main Bid	237310	Adjust Existing Manhole Frame and Cover to Grade	403-5	EA	5	\$2,000.00	\$10,000.00
13	Main Bid	237310	Adjust Survey Monument to Grade	403-5	EA	2	\$1,000.00	\$2,000.00
14	Main Bid	237310	Cross gutter	303-5.9	SF	300	\$20.00	\$6,000.00
15	Main Bid	237310	Crack Seal	302-15.5	LB	2024	\$4.40	\$8,905.60
16	Main Bid	237310	Curb Ramp (Type A) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	8	\$4,000.00	\$32,000.00
17	Main Bid	237310	Curb Ramp (Type Case B) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	1	\$4,000.00	\$4,000.00
18	Main Bid	237310	Curb Ramp (Type C2) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	1	\$4,450.00	\$4,450.00
19	Main Bid	237310	Curb Ramp (Type C1) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	4	\$4,325.00	\$17,300.00
20	Main Bid	237310	Historical and Contractor Date Stamps and Impressions	303-5.9	EA	4	\$250.00	\$1,000.00

21	Main Bid	237310	Curb Ramp (Type B) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	1	\$3,950.00	\$3,950.00
22	Main Bid	237310	Pedestrian Barricade (Type A)	701-2	EA	5	\$750.00	\$3,750.00
23	Main Bid	237310	Pavement Restoration Adjacent to Trench	302-5.2.1	SF	50	\$15.00	\$750.00
24	Main Bid	237110	Manholes (4 ft x 3 ft)	306-16.6	EA	12	\$10,500.00	\$126,000.00
25	Main Bid	237110	Sewer Main Cleanout	306-17.2	EA	31	\$3,950.00	\$122,450.00
26	Main Bid	237110	Cleaning and Video Inspection of Existing Pipelines and Culverts	306-18.7	LF	42685	\$1.00	\$42,685.00
27	Main Bid	237110	Cleaning and Video Inspection of Existing Laterals	306-18.7	EA	1105	\$1.00	\$1,105.00
28	Main Bid	237110	Video Inspection of Pipelines and Culverts for Acceptance	306-18.7	LF	42685	\$0.50	\$21,342.50

29	Main Bid	237310	Removal and Replacement of Existing Thermoplastic Striping and Markings, Including Paint Striping	-4.3.7 314-4	LS	1	\$2,500.00	\$2,500.00
30	Main Bid	237110	Rehabilitate Sewer Main (8 Inch)	500-12	LF	41447	\$21.00	\$870,387.00
31	Main Bid	237110	Rehabilitate Sewer Main (10 Inch)	500-12	LF	1238	\$23.00	\$28,474.00
32	Main Bid	237110	Point Repair for Existing Sewer Main (8 Inch)	500-4.7	EA	21	\$4,500.00	\$94,500.00
33	Main Bid	237110	Additional Point Repair for Existing Sewer Main (8 Inch)	500-4.7	LF	120	\$80.00	\$9,600.00
34	Main Bid	237110	Service Lateral Rehabilitation with Cleanout up to 7 ft in Depth	503-6	EA	314	\$1,750.00	\$549,500.00
35	Main Bid	237110	Service Lateral Rehabilitation with Cleanout greater than 7 ft in Depth	503-6	EA	789	\$1,328.00	\$1,047,792.00
36	Main Bid	237110	Rehabilitate Existing Manhole	502-8	EA	34	\$1,750.00	\$59,500.00



37	Main Bid	237110	Service Lateral Connection	501-9	EA	1119	\$715.00	\$800,085.00
38	Main Bid	541330	Traffic Control and Engineered Traffic Control Plans	601-7	LS	1	\$5,000.00	\$5,000.00
39	Main Bid	237110	Rehabilitate Existing Manhole with Point Repair	502-8	EA	10	\$1,800.00	\$18,000.00
							Subtotal	\$4,209,510.10
							Total	\$4,209,510.10