



**Hidalgo County  
Planning  
Department**

**T.J. Arredondo, CFM**  
Director of Planning

**Main Office**

1304 S. 25<sup>th</sup> Street  
Edinburg, Texas 78542  
Phone (956) 318-2840  
Fax (956) 318-2844

**Engineering Projects Office**

902 N. Doolittle Road  
Edinburg, Texas 78542  
Phone (956) 292-7080  
Fax (956) 292-7089

**Precinct No. 1 Substation**

1902 Joe Stephens Ave.  
Weslaco, Texas 78596  
Phone (956) 968-4734  
Fax (956) 973-7850

**Precinct No. 3 Substation**

2401 N. Moorefield Road  
Mission, Texas 78572  
Phone (956) 205-7045  
Fax (956) 205-7049

**PIPELINE AND UTILITY PERMIT APPLICATION PACKET**

**THE STATE OF TEXAS**

**COUNTY OF HIDALGO**

**PRECINCT 1**

**APPLICATION AND AGREEMENT FOR PIPELINE OR  
UTILITY PERMIT**

Date: January 27, 2020

*NAWSC C/O*

THE 5125 COMPANY, L.L.C. (hereinafter referred to as "Applicant") does hereby make application to the Hidalgo County through the Hidalgo County Planning Department (hereinafter referred to as "HCPD") to construct, maintain and repair pipelines or utilities across the easements, right-of-ways, property or property interest as described below.

**Information required:**

**1. Name, Address and Phone number of Applicant:**

THE 5125 COMPANY  
3914 RIO GRANDE CARE RD  
EDINBURG, TEXAS 78541

**2. Name, Address and Phone number of company or agency owning Pipeline or Utility (please indicate if same as Applicant):**

NORTH ALAMO WATER SUPPLY CORPORATION  
420 S DOOLITTLE RD  
EDINBURG, TEXAS 78542

**3. Name, Address and Phone number of operator of Pipeline or Utility (please indicate if same as Applicant):**

NORTH ALAMO WATER SUPPLY CORPORATION  
420 S DOOLITTLE RD  
EDINBURG, TEXAS 78542

**4. Name, Address and Phone number of contractor to install Pipeline or Utility:**

THE 5125 COMPANY  
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5. Is this a common carrier pipeline or utility? If yes, please submit the Applicant's Texas Railroad Commission Form "T-4" or similar form designating the facility:

NO

6. Does Applicant have the Power of Eminent Domain?

UTILITY OWNER - NORTH ALAMO WATER SUPPLY CORPORATION

7. Will the product be carried for hire or by the owner of the goods?

N/A

8. Name and Legal description of property owner requesting utility services if applicable:

NORTH ALAMO WATER SUPPLY CORPORATION

9. Type of utility work within county road right-of-way:

Bore Crossing     Line Extension Along R.O.W.     Other OPEN CUT. NEW SEWER LINES

10. Where is the origin of the line?

MULTIPLE LINES (SEE ATTACHMENT)

11. Where is the destination of the line?

MULTIPLE LINES (SEE ATTACHMENT)



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**PIPELINE AND UTILITY PERMIT APPLICATION PACKET**

12. Utility Crossing Coordinate X: Multiple Lines (See Attachment) Y: Multiple Lines (See Attachment)  
(NAD 83 Texas South FIPS 4205 feet)
13. Number and size of lines:  
MULTIPLE LINES (SEE ATTACHMENT)
14. Pressure (each line):  
10 psi
15. Content (each line):  
RAW SEWAGE
16. Estimated date of installation of Pipeline or Utility:  
AS SOON APPROVED BY COURT.



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## PIPELINE AND UTILITY PERMIT APPLICATION PACKET

If requested permit is granted by HCPD, Applicant, in consideration thereof, agrees and binds itself as follows:

1. All pipelines or utilities herein will be horizontally placed within the right-of-way as determined by HCPD and at a minimum depth of five (5) feet below natural ground. Depth, horizontal, and vertical location shall be confirmed by HCPD Inspectors.
2. Location map, profile, and plans concerning the proposed pipeline or utility crossing will furnished with this application.
3. HCPD will be notified in writing ten days prior to the beginning date of construction under this permit.
4. Applicant will bear the entire expense of all future relocations of any pipelines or utilities should such relocation, at the sole discretion of the Hidalgo County Commissioners Court, be necessary for improvements, alteration, or maintenance of the Hidalgo County's easement or property of interest.
5. Applicant will notify the HCPD at least 48 hours prior to covering work and or completion of its work and removal of its equipment from the job site to permit HCPD to make an inspection.
6. Upon notification by the HCPD, the Applicant will promptly repair or rectify any deficiency or condition caused by the Applicant's operations or installations under this permit. Applicant will leave easement in as near the same condition or better, in the HCPD's sole judgment, as it existed prior to the commencement of the operations under this permit.
7. Hidalgo County shall not be liable or responsible for, and shall be saved and held harmless by Applicant, and further shall be indemnified by Applicant, from and against any and all suits, actions, losses, damages, claims, or liability of any character, type, or description, including all expenses of litigation, court costs, attorney's fees, and engineering fees for injury or death to any person, or injury to any property, received or sustained by any person or persons or property, arising out of, or occasioned by, directly or indirectly, the performance of Applicant under this agreement, including claims and damages arising in part from the negligence of the Hidalgo County.



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## PIPELINE AND UTILITY PERMIT APPLICATION PACKET

It is the expressed intent of the parties to this agreement that the indemnity provided for in this section is extended by Applicant to indemnify and protect Hidalgo County from the consequences of Hidalgo County's own negligence, whether that negligence is the sole or contributory cause of the resultant injury death, or damage.

Applicant further agrees to defend, at its own expense, with attorneys acceptable to Hidalgo County and on behalf of the Hidalgo County, and in the name of Hidalgo County, any claim or litigation brought against the Hidalgo County in connection with any such injury, death or damage.

Before construction is begun on such pipeline or utility crossings, Applicant will furnish to the HCPD a certificate of insurance (or other security approved by the HCPD) payable to Hidalgo County and protecting Hidalgo County (as an additional named insured) against any claims for personal injuries or damages to property resulting from the operations of Applicant, its agents, servants, employees, and contractors under this permit. Insurance is to be supplied in accordance with the attached Schedule A.

8. Hidalgo County makes no warranties, expressed or implied, in the granting of this permit; nor does Hidalgo County purport to grant any property interest or exclusive privileges whatsoever by granting such permit. It is specifically understood that Hidalgo County is not the agent for, nor does it act for, the fee owners or any persons or entities having any right, or title to possession of the land upon which the Hidalgo County's easement or other property interest is located. Furthermore, in granting this permit Hidalgo County makes no representation or warranty that it has any property interest, including, but not limited to, an easement or right of way, in the land

upon which Applicant constructs, maintains, repairs, or modifies the pipelines or utilities, made the subject of this application, nor does Hidalgo County make any representation or warranty as to the validity, quality or extent of such property interest, if any. Applicant acknowledges its understanding that Hidalgo County in granting this permit, does not convey or grant to Applicant any rights, title or interest for which is has no legal authority to grant or convey.

9. Applicant binds itself to comply with all federal, state, and local laws or regulations and will obtain all necessary permits from all local and federal agencies required by law before installation or construction is begun.



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## PIPELINE AND UTILITY PERMIT APPLICATION PACKET

10. Applicant will install its pipelines and utilities in a manner and location as shown in the plans and specifications filed with HCPD in support of this application for permit. Hidalgo County Planning Department's representative may at any time make such inspection as such engineer or other representation may deem necessary to assure that the construction of the pipeline or utilities is in accordance with the plans and specifications submitted, and said engineer or representative shall have the right to temporarily suspend Applicant's work if necessary, while such inspection is being made. Should Applicant not install the pipelines or utilities in accordance with the terms and conditions of this permit, Applicant agrees that the Hidalgo County shall have the right to require, at Applicant's expense, the removal of the pipelines and utilities and its replacement in conformance to said plans and specifications and conditions of this permit. Hidalgo County may revoke this permit and suspend all work hereunder if it is determined by Hidalgo County that the pipelines or utilities are not being installed in accordance with such plans and specifications and conditions of this permit. The suspension or revocation of this permit shall not be a basis for a claim for damages against Hidalgo County.
11. Except in emergency situations where it is necessary to protect life and property, Applicant will not make any change, modification, or alteration in or to the pipelines or utilities without first securing a new or amended permit from Hidalgo County prior to the making of any such change. Applicant will maintain the pipelines or utilities hereby authorized in good and safe condition, and in accordance with plans, specifications, and this permit.
12. Applicant agrees to pay HCPD a permit fee to cover administrative costs in the amount of **\$500.00**, plus a reimbursement to HCPD for any necessary engineering fees which may be incurred for the study and processing of the Application. This fee will permit a single pipeline or utility to be within County right-of-way. Applicant further agrees to pay an additional fee of **\$500.00** for each additional line included in permit application at the same location; however, more than one location may be included in a single application.

Requests to lay additional line or lines, not included in an initial permit application, must be made by separate application, with new permit fees paid accordingly and support data provided.



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Permit fees may be waived where Applicant is a state, county, municipality, or a special political subdivision.

13. The Applicant is allowed one hundred twenty days (120) from the granting of the permit to start construction of the pipelines or utilities crossings. Once started, the Applicant is allowed ninety (90) days to complete all work under such permit. All construction must be completed within two hundred ten (210) days from the date of issuance of permit. Upon application, extension of the time periods set forth in this paragraph may be granted by the Hidalgo County Commissioners Court. Such applications for extension must be received by HCPD at least thirty days before the expiration of the two hundred ten (210) days period. A new permit fee, in accordance with Paragraph 12 hereof, will be charged for each extension granted.

Construction of any pipeline or utility crossing will not begin until written approval has been given by HCPD.

14. All provisions of the Pipeline and Utility Permit Administration Policy of Hidalgo County, if any, and all amendments thereto, are hereby incorporated herein as part of the terms and conditions of this permit for all purposes.
15. Applicant warrants and represents that it has secured from all fee owners of the involved property an easement or other property rights to construct, repair or modify the pipeline or utility in the manner set forth herein.
16. This Pipeline and Utility Permit if granted by Hidalgo County is subject to any and all other requirements, specifications and conditions listed in Exhibit A attached hereto.
17. Hidalgo County requires all coordinates of all utility crossings. Horizontal datum to be in NAD 83 State Plane Texas South 4205 feet and vertical datum in NAVD 88 Geoid 12a.



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**PIPELINE AND UTILITY PERMIT APPLICATION PACKET**

18. This permit constitutes the entire agreement between the parties with regard to the subject matter hereof, and all prior agreements, representations, and negotiations between the parties regarding the subject matter are hereby superseded. This permit shall not be altered or amended except by an agreement in writing executed by the parties hereto.

19. Applicant warrants and represents that its undersigned representative has full authority to bind Applicant to the terms and conditions of the foregoing Application and Agreement for Pipeline or Utility Permit.

DATED this 28<sup>TH</sup> day of January, 2020.

Angelica Hinojosa

(Name of Applicant – Printed or Typed)

By: *Angelica Hinojosa*  
Signature

Title: New Account Supervisor

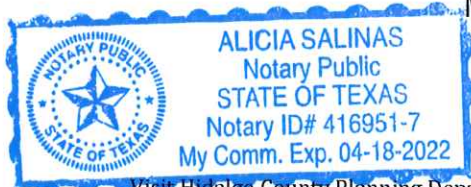
STATE OF TEXAS  
COUNTY OF HIDALGO

SUBSCRIBED AND SWORN TO before me the Applicant,  
Angelica Hinojosa, on this 28th day of January, 2020,  
to which witness my hand and seal of office.

*Alicia Salinas*

Notary Public for the State of Texas

My Commission Expires: \_\_\_\_\_





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**APPROVAL OF APPLICATION BY  
HIDALGO COUNTY PLANNING DEPARTMENT**

Came on for consideration this \_\_\_\_\_ day of \_\_\_\_\_,  
20\_\_\_\_. The above and foregoing Application for Pipeline and Utility  
Permit, and after consideration of the same by the Hidalgo County  
Commissioners Court, said Application and Agreement for Pipeline or  
Utility Permit is hereby APPROVED.

HIDALGO COUNTY:

\_\_\_\_\_  
Richard F. Cortez, County Judge



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**PIPELINE AND UTILITY PERMIT APPLICATION PACKET**

**EXHIBIT A**

(Please insert description of project location and supporting documents for proposed utility work)



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
1/15/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Southern American Insurance Agency  13823 Schmidt Road Cypress TX 77429		<b>CONTACT NAME:</b> Laura Rowell <b>PHONE (A/C, No, Ext):</b> (281) 890-9294 <b>FAX (A/C, No):</b> (281) 890-2229 <b>E-MAIL ADDRESS:</b>																						
<b>INSURED</b> The 5125 Company 1008 Doherty  Mission TX 78572		<table border="1"> <tr> <th colspan="2">INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A:</td> <td>United Fire Lloyds</td> <td>43559</td> </tr> <tr> <td>INSURER B:</td> <td>Texas Mutual Insurance Co.</td> <td>22945</td> </tr> <tr> <td>INSURER C:</td> <td></td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> <td></td> </tr> </table>		INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A:	United Fire Lloyds	43559	INSURER B:	Texas Mutual Insurance Co.	22945	INSURER C:			INSURER D:			INSURER E:			INSURER F:		
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**COVERAGES**

CERTIFICATE NUMBER: 19-20

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			85323274	11/1/2019	11/1/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			85323274	11/1/2019	11/1/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Uninsured motorist combined single \$ 1,000,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$			85323274	11/1/2019	11/1/2020	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	0001142644	3/17/2019	3/17/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Contractors Equipment			85323274	11/1/2019	11/1/2020	Leased/Rented \$300,000 Deductible \$1,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holder is included as Additional Insured on Auto, Umbrella; and General Liability for Ongoing and Completed Operations on a Primary and Non-Contributory basis; where required by written contract. Waiver of Subrogation applies in favor of Certificate Holder on General Liability, Auto, Workers Compensation and Umbrella policies; where required by written contract. 30 Day Notice of Cancellation; except 10 Days for Non-Payment

**CERTIFICATE HOLDER****CANCELLATION**

Hidalgo County Planning Department 1304 S. 25th Street Edinburg, TX 78542	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE  S American Ins. Agcy. <i>C.A. McClure</i>
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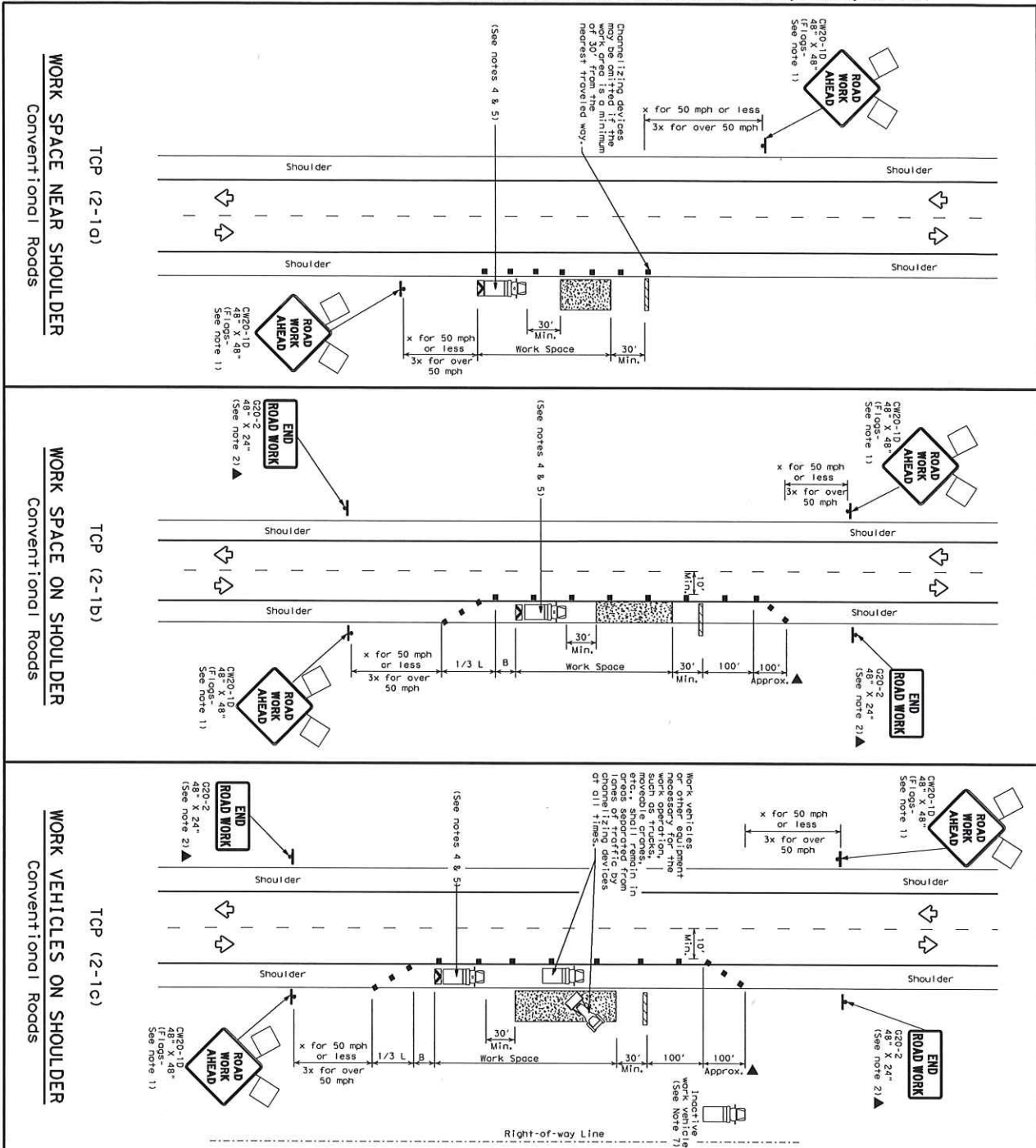
# ATTACHMENT A

# LINE LOCATIONS

LINE	SHEET	STREET	PIPE SIZE	CUT	NORTHERN/EASTERN
E-1	53 OF 72	4 <sup>TH</sup> ST. (SUNRISE SUBD.)	12"	OPEN CUT	START X: -6141833.413635 Y: -4634400.122965 END X: -6142066.199782 Y: -4634100.529071
E-2	53 OF 72	E. ST. (SUNRISE SUBD.)	12"	OPEN CUT	START X: -6142066.199782 Y: -4634100.529071 END X: -6141757.087542 Y: -4634203.277597
E-3	53 OF 72	LICO RD. (OLIVAREZ #10)	12"	OPEN CUT	START X: -6142083.928746 Y: -4633819.522212 END X: -6141757.087542 Y: -4634203.277597
E-4	53 OF 72	MILE 3 1/2 W RD. (PUESTA DEL SOL SUBD.)	10"	OPEN CUT	START X: -6142083.928746 Y: -4633819.522212 END X: -6142066.866213 Y: -4633807.116857
E-5	54 OF 72	JIMMY CARTER STREET (PUESTA DEL SOL SUBD.)	10"	OPEN CUT	START X: -6142083.928746 Y: -4633819.522212 END X: -6142380.759392 Y: -4633441.158419
E-6	55 OF 72	SYLVIA HANDY STREET (PUESTA DEL SOL SUBD.)	8" AND 6"	OPEN CUT	START X: -6141986.981268 Y: -4633132.902888 END X: -6142505.670084 Y: -4633535.850755
E-7	56 OF 72	MILE 12 N ROAD (PUESTA DEL SOL SUBD.)	6"	OPEN CUT	START X: -6141986.981268 Y: -4633132.902888 END X: -6141858.86681 Y: -4633299.301457
E-8	56 OF 72	GEORGE BUSH STREET (PUESTA DEL SOL SUBD.)	6"	OPEN CUT	START X: -6142096.053357 Y: -4633214.245646 END X: -6141964.488823 Y: -4633381.784034
E-9	57 OF 72	ABRAHAM LINCOLN STREET (PUESTA DEL SOL SUBD.)	6"	OPEN CUT	START X: -6142184.398718 Y: -4633306.585398 END X: -6141965.684922 Y: -4633588.270672
E-10	58 OF 72	JOHN F. KENNEDY STREET (PUESTA DEL SOL SUBD.)	6"	OPEN CUT	START X: -6142271.413301 Y: -4633387.642918 END X: -6142044.80346 Y: -4633676.971366
E-11	59 OF 72	JIMMY CARTER STREET (PUESTA DEL SOL SUBD.)	6"	OPEN CUT	START X: -6142137.831632 Y: -4633749.446999 END X: -6142373.782114 Y: -4633451.78143
E-12	60 OF 72	BILL CLINTON STREET (PUESTA DEL SOL SUBD.)	8" AND 6"	OPEN CUT	START X: -6141952.430977 Y: -4633605.839136 END X: -6142260.715524 Y: -4633846.825716

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Work vehicles or other equipment necessary for the work operation, movable cranes, etc., shall remain in the work space or on the shoulder of the road. Signs shall be placed from the right-of-way line or 111 times.

Work vehicles or other equipment necessary for the work operation, movable cranes, etc., shall remain in the work space or on the shoulder of the road. Signs shall be placed from the right-of-way line or 111 times.

**LEGEND**

	Type 3 Barrier		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

**GENERAL NOTES**

- Flags attached to signs when shown, are required.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol, which are optional when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- Stockpiled material should be placed a minimum of 30 feet from the nearest traveled way.
- Storage traveled way, MA, and high intensity rotating, flashing, or flashing rotating devices may be used.
- The order of crew exposure without adversely affecting the performance or quality of the work, if workers are no longer present on road or work conditions require the traffic control to remain in place until the work is completed.
- Additional Show Vehicles with TMA's may be positioned off the paved surfaces, next to those shown in order to protect a wider work space. See TCR (B-1) for shoulder work on divided highways, expressways and interchanges.
- Interchange work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- Interchange work signs may be used in place of C121-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

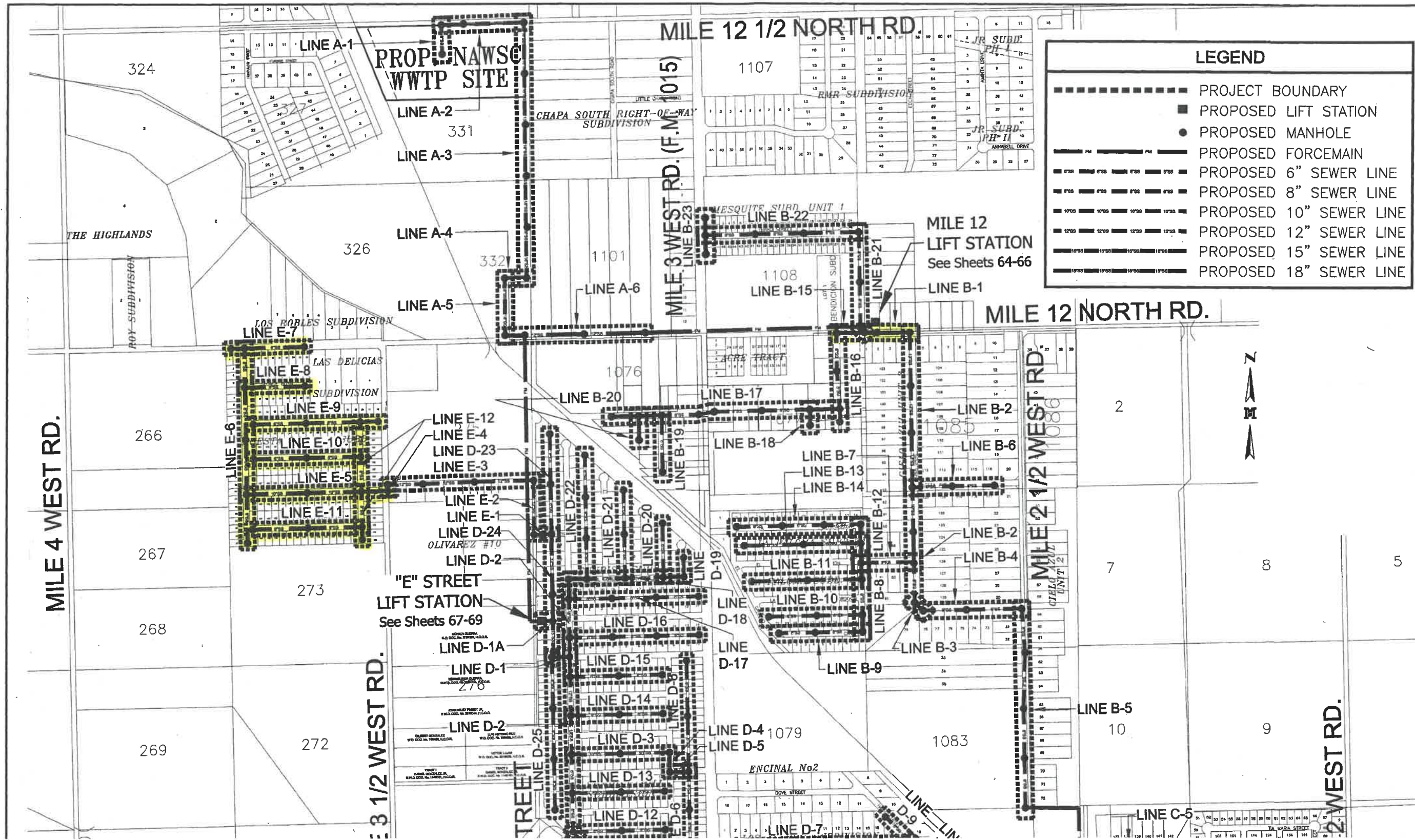
**TYPICAL USAGE**

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**TCP (2-1) - 18**

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PROJECT	1818	NO.	1818	JOB	1818
SECTION	1818	NO.	1818	JOB	1818
DATE	10/20/18	NO.	1818	JOB	1818
BY	1818	NO.	1818	JOB	1818
DATE	10/20/18	NO.	1818	JOB	1818





### LEGEND

- PROJECT BOUNDARY
- PROPOSED LIFT STATION
- PROPOSED MANHOLE
- PROPOSED FORCEMAIN
- PROPOSED 6" SEWER LINE
- PROPOSED 8" SEWER LINE
- PROPOSED 10" SEWER LINE
- PROPOSED 12" SEWER LINE
- PROPOSED 15" SEWER LINE
- PROPOSED 18" SEWER LINE

JOB No. **14089.09**

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 SANITARY SEWER COLLECTION SYSTEM IMPROVEMENTS  
 2017  
 NORTH ALAMO WATER SUPPLY CORPORATION

FORCEMAINS STATIONS ON MAP



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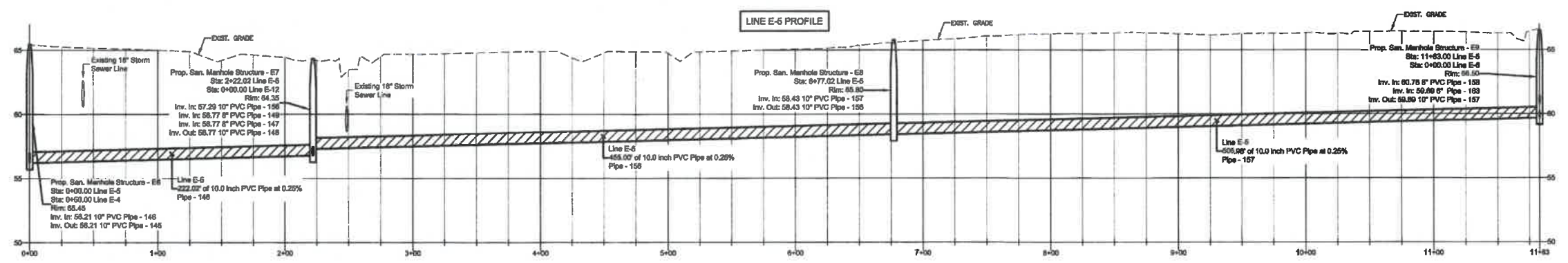
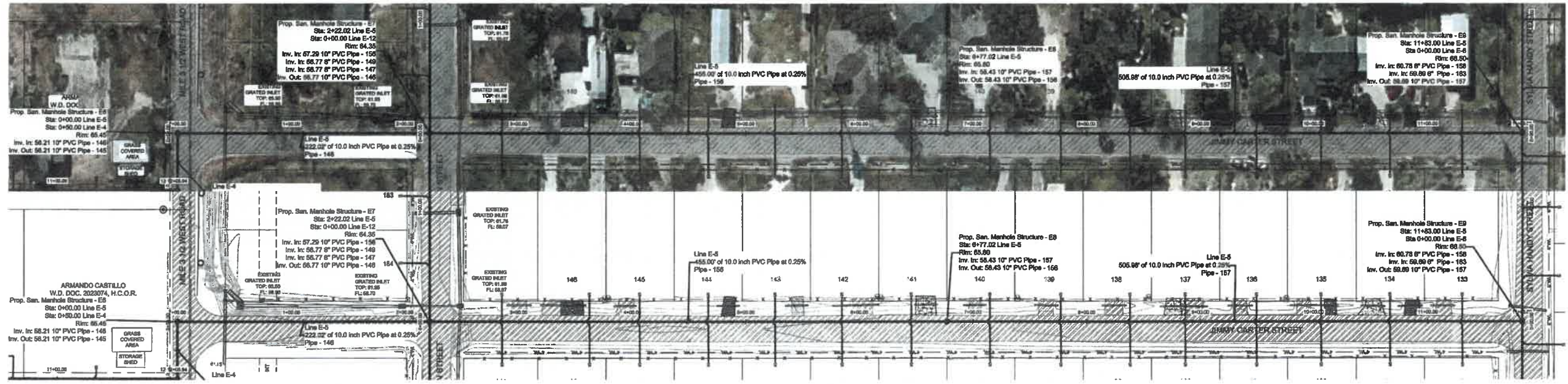
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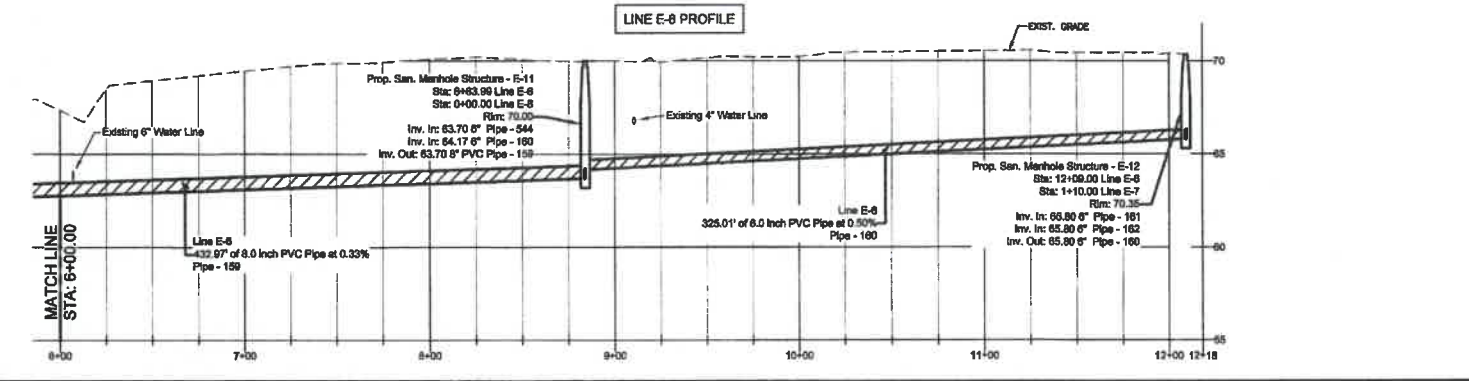
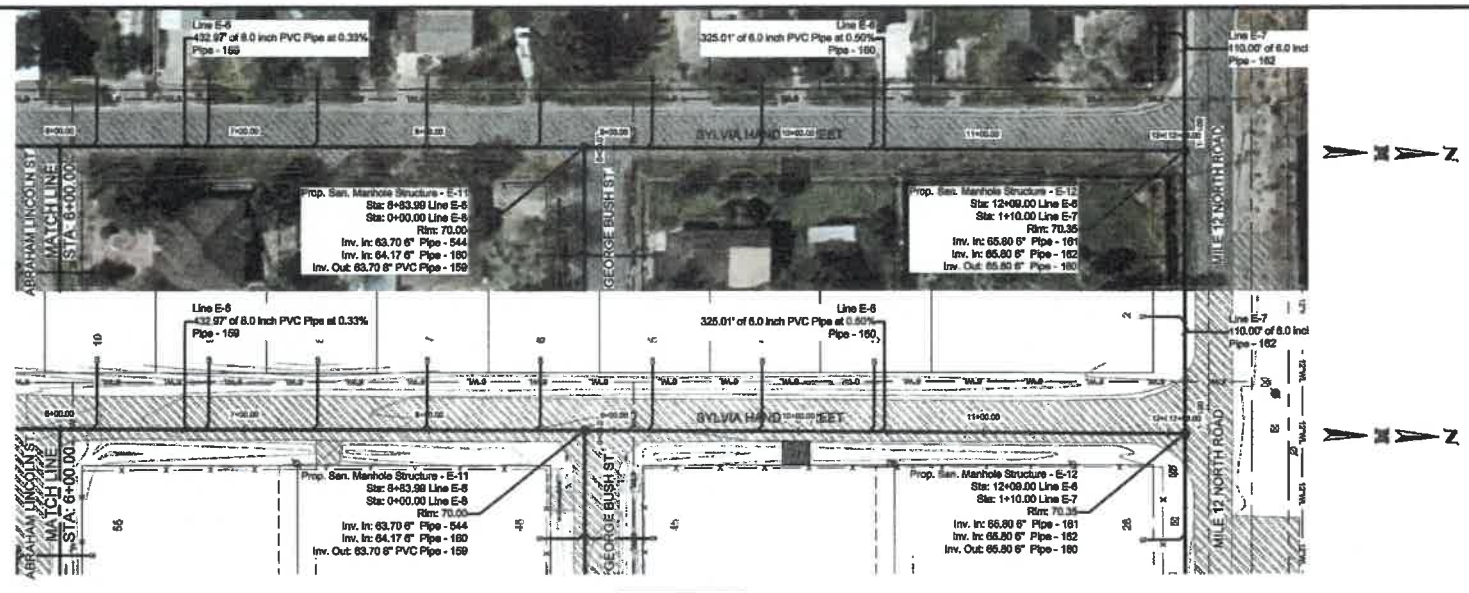
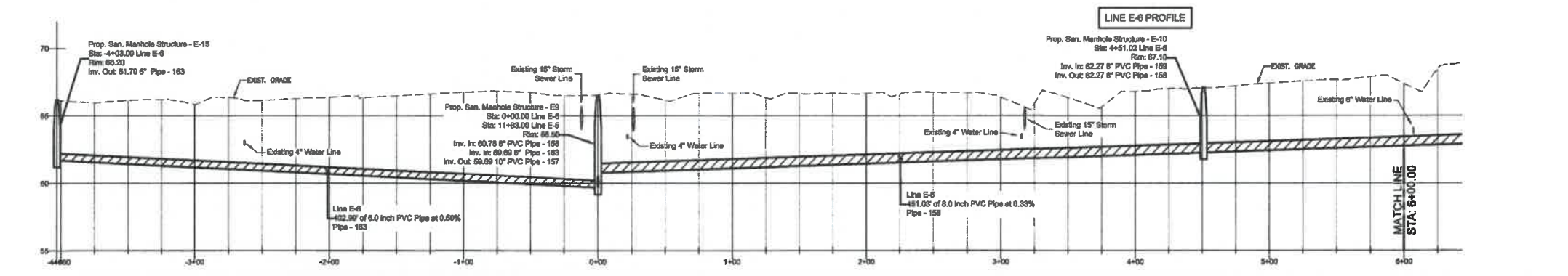
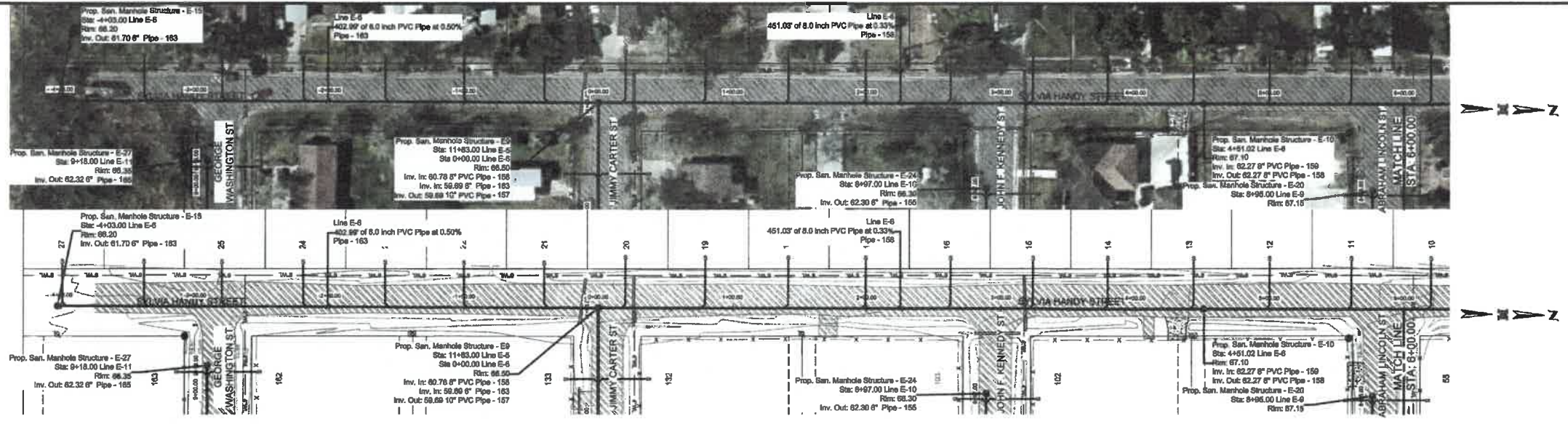
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 NORTH ALAMO WATER SUPPLY CORPORATION

LINE "E-5"  
 STA. 0+00.00 TO STA. 11+83.00  
 (JIMMY CARTER STREET)

SEWING BASED AS PER TEXAS STATE PLUMBING CODE COORDINATE SYSTEM, NAD 83, TEXAS SOUTH ZONE  
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 File Name: 14066.01  
 SHEET 54 OF 72





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**LINE "E-6" STA. -4+03.00 TO STA. 12+09.00 (SYLVIA HANDY STREET)**

BEARING BASIS AS PER TEXAS STATE PLANE GRID COORDINATE SYSTEM AND IS TEXAS SOUTH ZONE

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JOB No. 14088.01

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227 N. F.M. 3167

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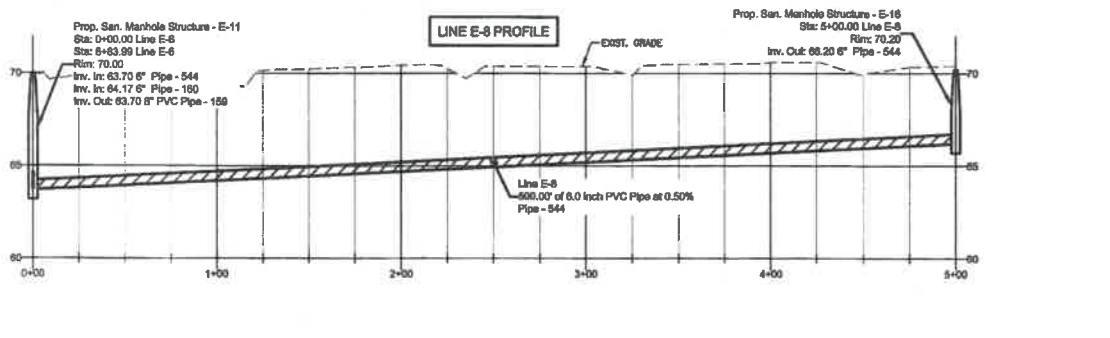
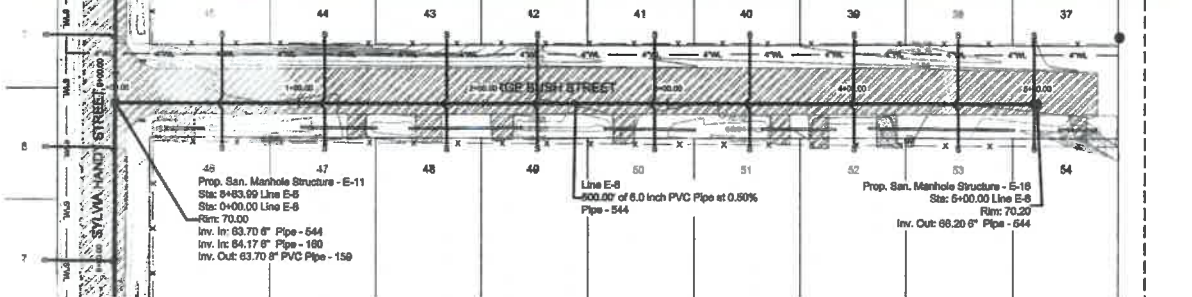
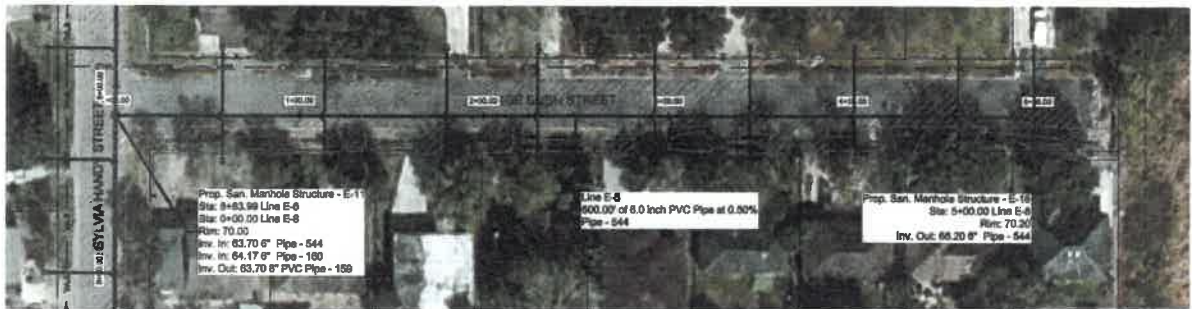
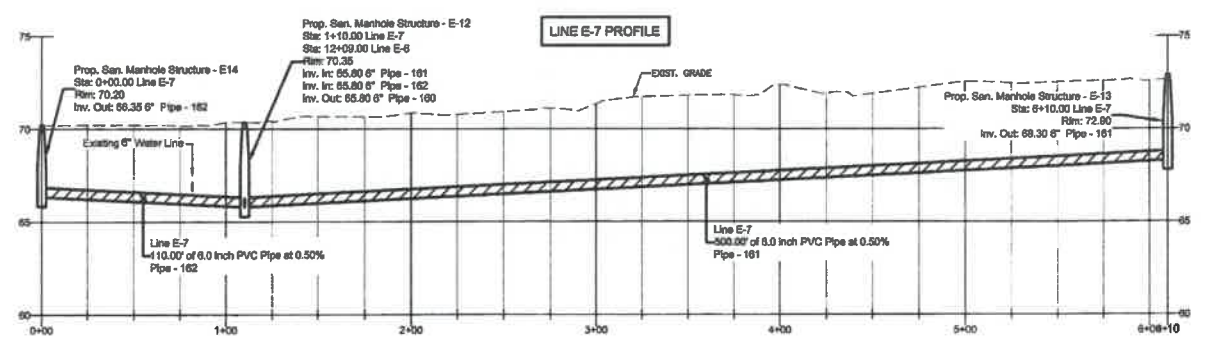
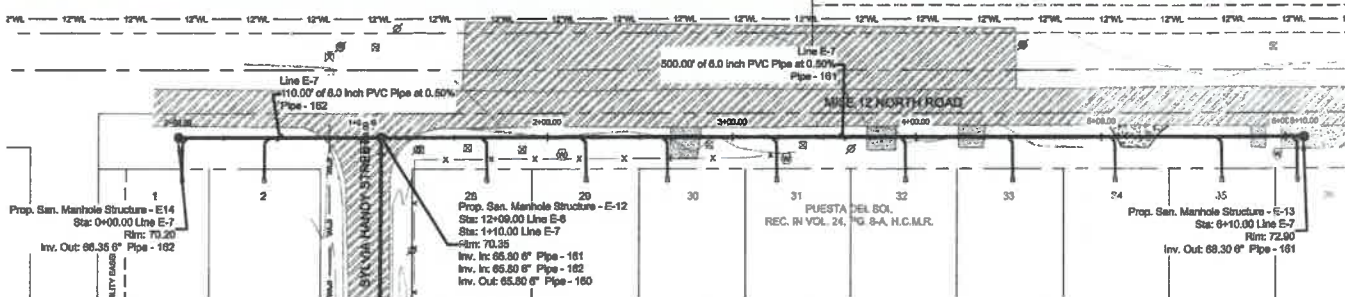
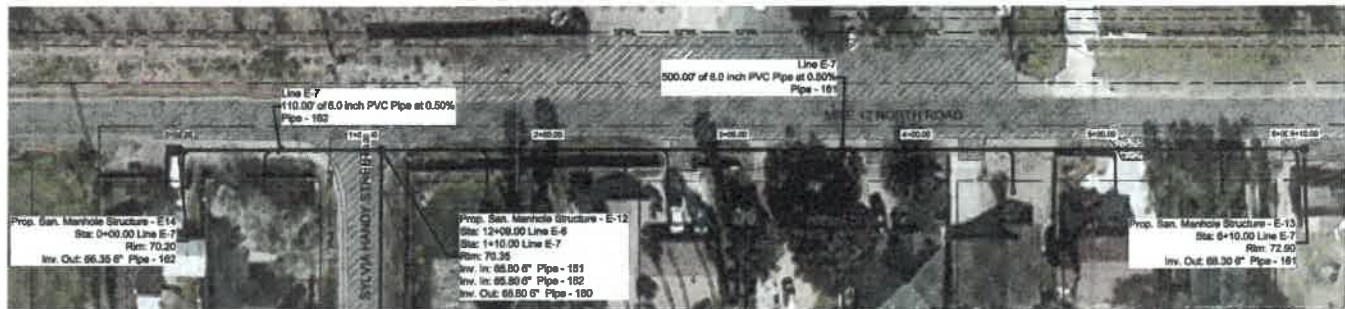
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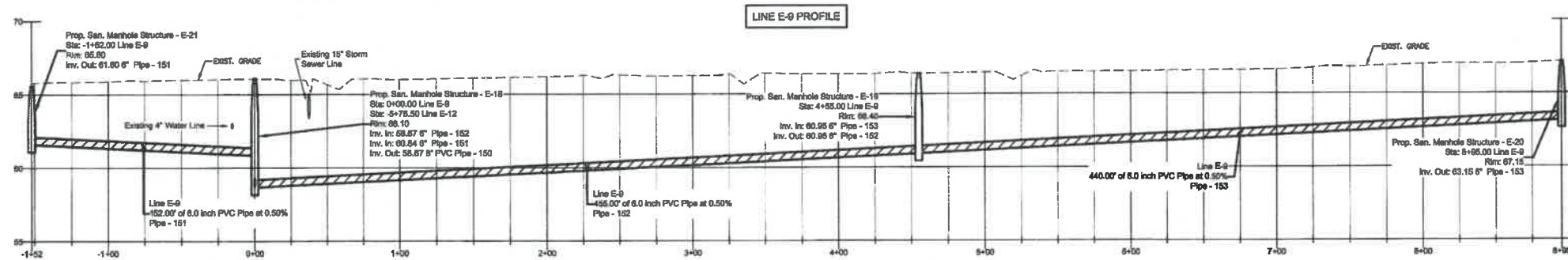
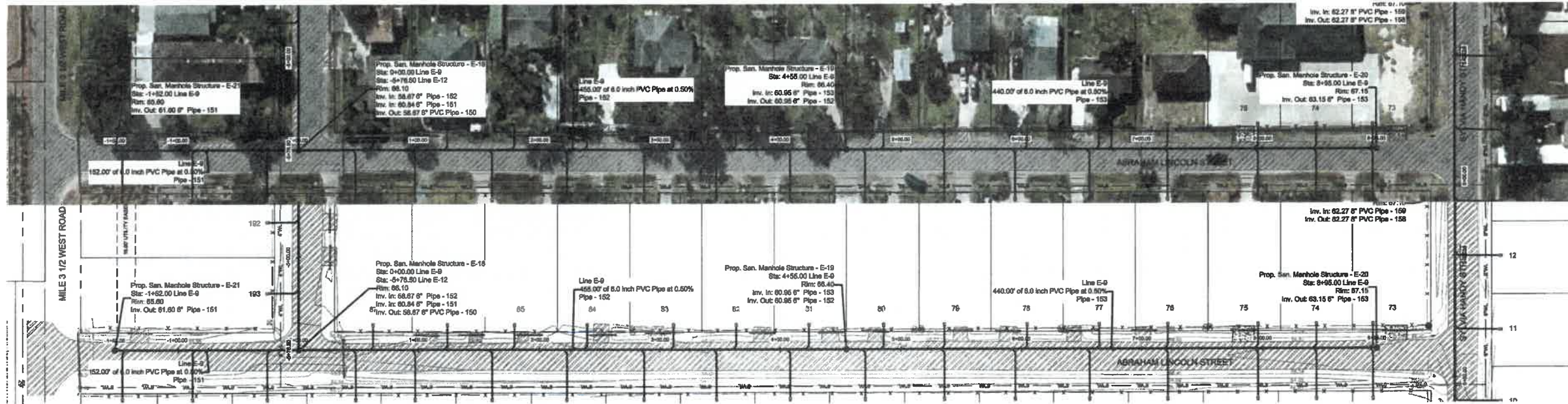


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 SANITARY SEWER COLLECTION  
 SYSTEM IMPROVEMENTS  
 2017  
 NORTH ALAMO WATER  
 SUPPLY CORPORATION

LINE "E-7"  
 STA. 0+00.00 TO STA. 6+10.00  
 (MILE 12 NORTH ROAD)  
 LINE "E-8"  
 STA. 0+00.00 TO STA. 5+00.00  
 (GEORGE BUSH STREET)

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 PLANE GRID COORDINATE SYSTEM  
 NAD 83, TEXAS SOUTH ZONE  
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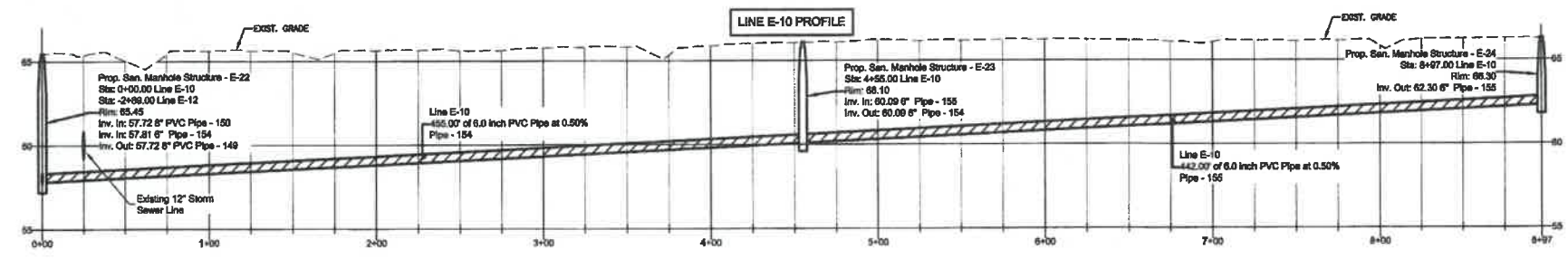
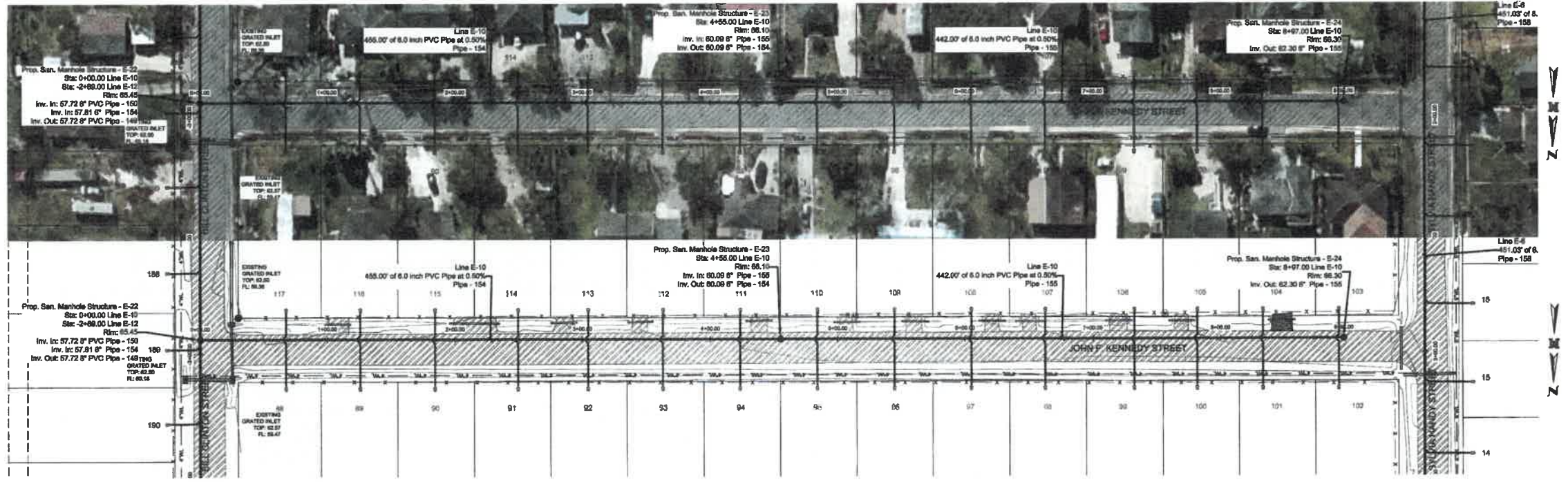
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**LINE "E-9" STA. -1+52.00 TO STA. 8+95.00 (ABRAHAM LINCOLN STREET)**

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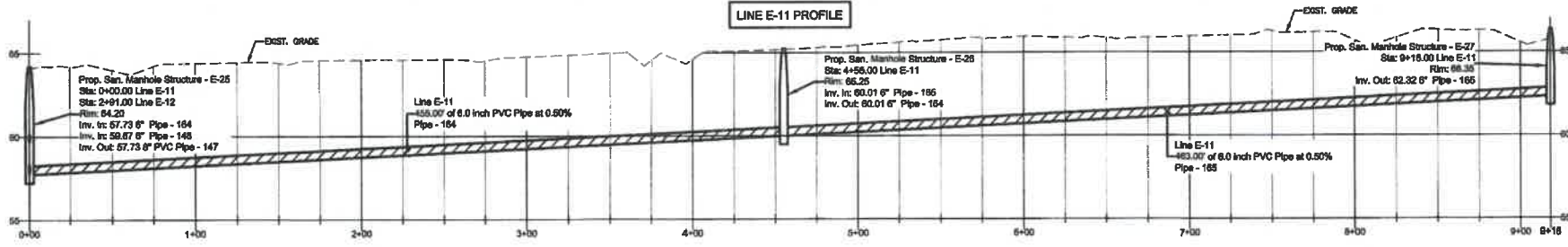
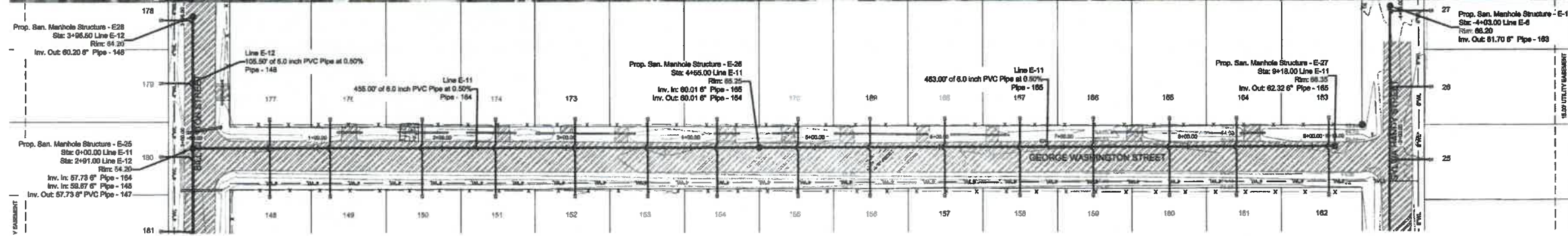


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 NORTH ALAMO WATER SUPPLY CORPORATION

LINE "E-10"  
 STA. 0+00.00 TO STA. 8+97.00  
 (JOHN F. KENNEDY STREET)



JOB No. **14066.01**

BY **MELDEN & HUNT INC.**  
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STATE OF TEXAS  
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**LINE "E-11" STA. 0+00.00 TO STA. 9+18.00 (GEORGE WASHINGTON STREET)**

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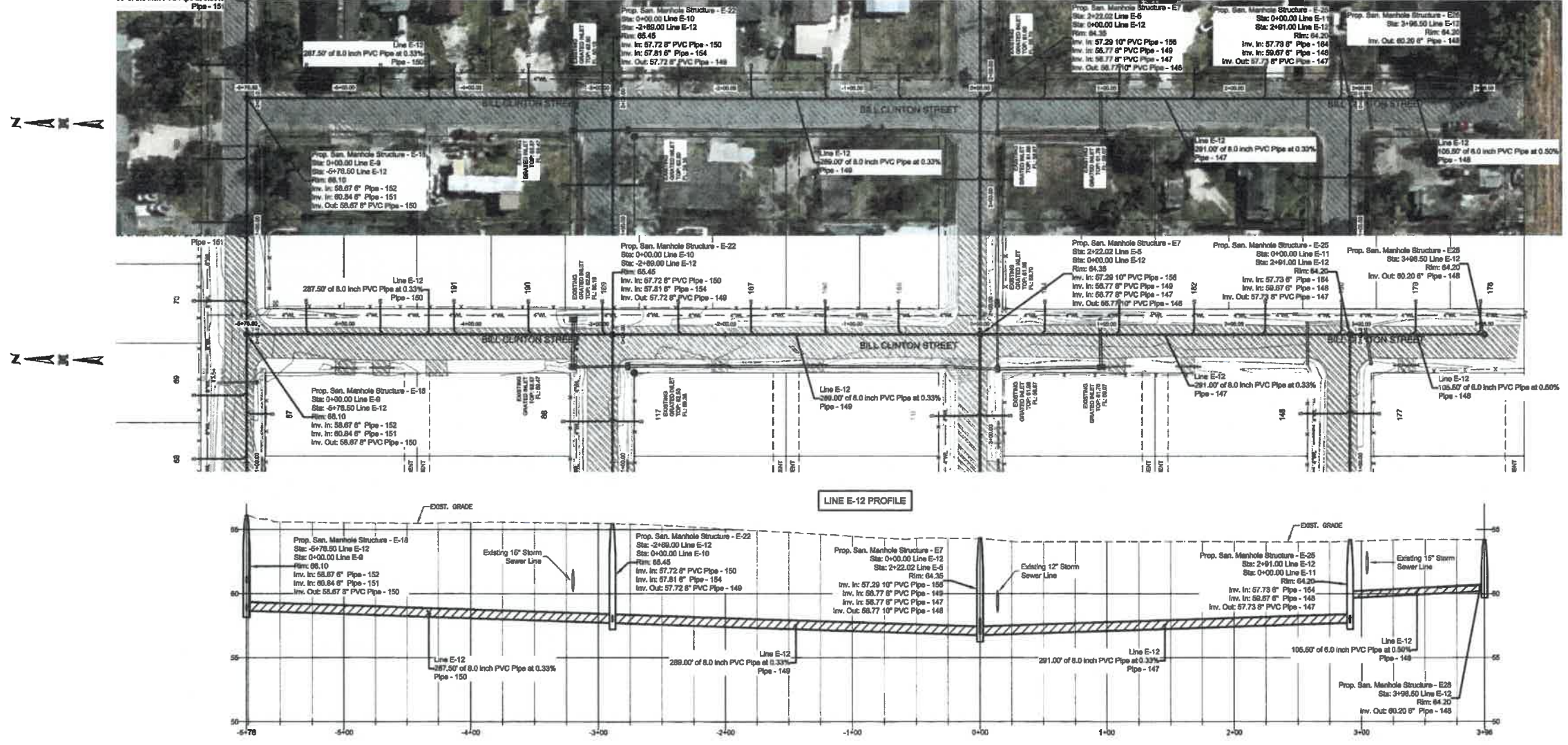
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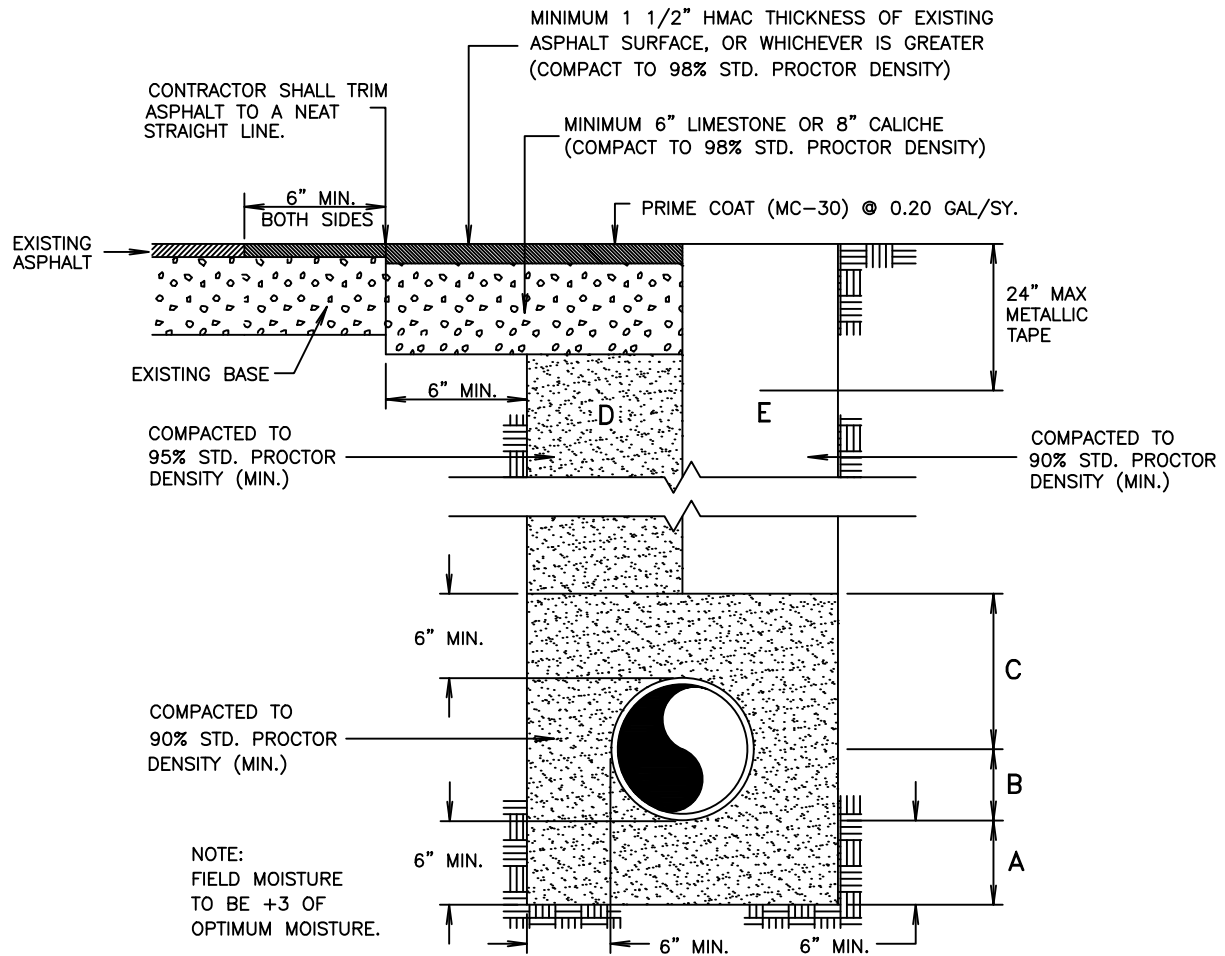
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 2017  
 NORTH ALAMO WATER  
 SUPPLY CORPORATION

LINE "E-12"  
 STA. -5+76.50 TO STA. 3+96.50  
 (BILL CLINTON STREET)





## TYPICAL PIPE BEDDING AND TRENCH BACKFILL DETAIL

NOT TO SCALE

- A SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS = 6").
- B SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE (4" LIFTS, HAND TAMPED).
- C SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE (6" LIFTS, HAND TAMPED).
- D SAND BACKFILL, CLASS "A" (6" LIFTS, MECHANICAL COMPACTION).
- E EARTH BACKFILL, CLASS "B" (12" LIFTS, MECHANICAL COMPACTION).

## TYPICAL PIPE BEDDING AND PAVING DETAIL

FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS STABLE.

BACKFILL AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED.

### NAWSC SEWER COLLECTION PROJECT



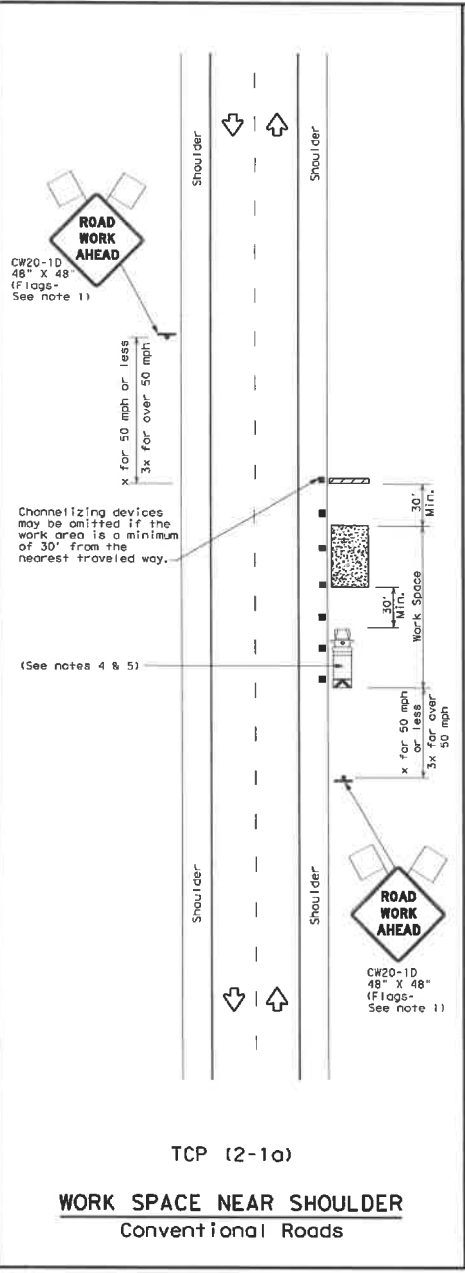
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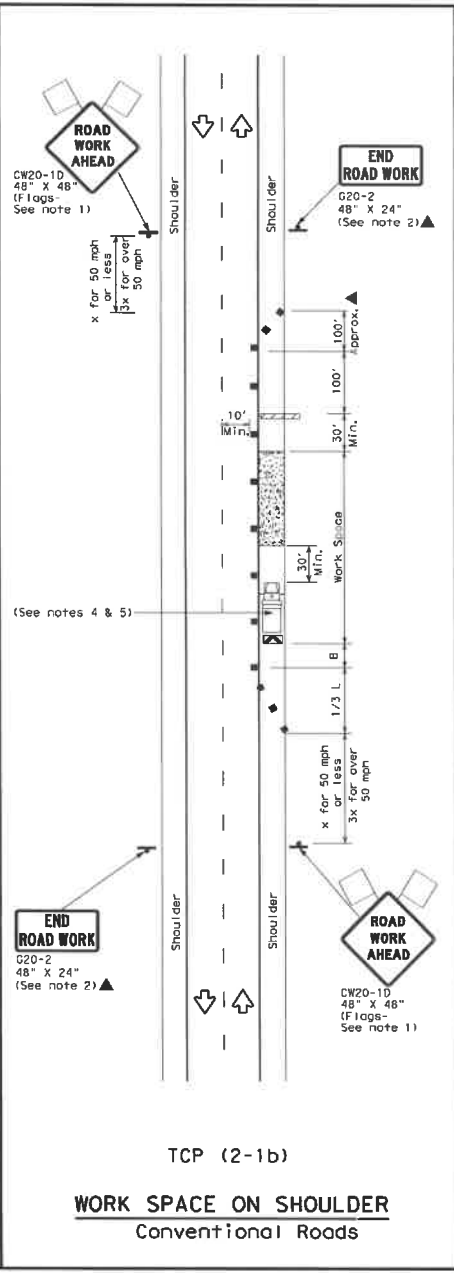
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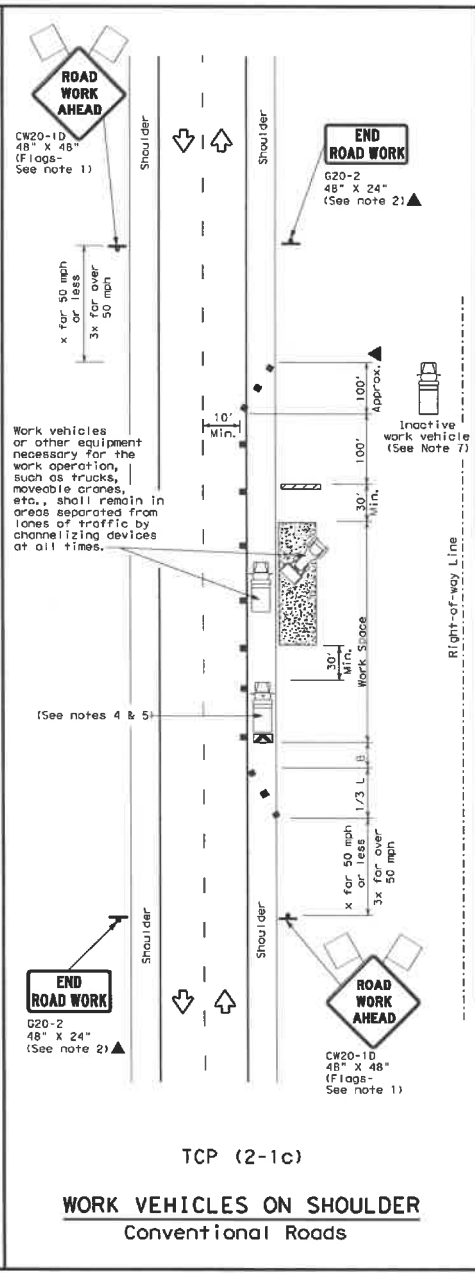
TCP (2-1a)

**WORK SPACE NEAR SHOULDER**  
Conventional Roads



TCP (2-1b)

**WORK SPACE ON SHOULDER**  
Conventional Roads



TCP (2-1c)

**WORK VEHICLES ON SHOULDER**  
Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed X	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing x Distance	Suggested Longitudinal Buffer Space y
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = WS / 60	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	700'	770'	840'	70'	140'	800'	475'	
75	750'	825'	900'	75'	150'	900'	540'	

\* Conventional Roads Only  
\*\* Taper lengths have been rounded off.  
L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE			
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
  - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
  - Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
  - Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
  - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
  - See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
  - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
  - CW21-5 "SHOULDER WORK" signs may be used in place of CW21-10 "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

**Texas Department of Transportation**  
TRAFFIC CONTROL PLAN  
CONVENTIONAL ROAD  
SHOULDER WORK  
TCP(2-1)-18

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