

RESOLUTION NO. 25-R-024

A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF SCHERTZ, TEXAS, AUTHORIZING A STANDARD UTILITY AGREEMENT WITH THE STATE OF TEXAS FOR THE RELOCATION OF UTILITIES FOR THE IH 35 NEX PROJECT

WHEREAS, the Texas Department of Transportation (TxDOT) is undertaking the IH 35 NEX Project and has acquired additional right of way for the widening of the highway; and

WHEREAS, water and sewer mains of the City of Schertz, Texas, (City) are located in conflict with the planned TxDOT improvements to IH 35; and

WHEREAS, the State of Texas will pay to the City of Schertz the costs incurred in adjustment, removal, and relocation of the utilities; and

WHEREAS, City Staff has recommended that the City enter into a Standard Utility Agreement (SUA) with the State of Texas for the relocation of utilities along IH 35 and reimbursement of project costs.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SCHERTZ, TEXAS THAT:

Section 1. The City Council hereby authorizes the City Manager to execute the TxDOT Standard Utility Agreement in substantially the form set forth as Exhibit A.

Section 2. The recitals contained in the preamble hereof are hereby found to be true, and such recitals are hereby made a part of this Resolution for all purposes and are adopted as a part of the judgment and findings of the City Council.

Section 3. All resolutions, or parts thereof, which are in conflict or inconsistent with any provision of this Resolution are hereby repealed to the extent of such conflict, and the provisions of this Resolution shall be and remain controlling as to the matters resolved herein.

Section 4. This Resolution shall be construed and enforced in accordance with the laws of the State of Texas and the United States of America.

Section 5. If any provision of this Resolution or the application thereof to any person or circumstance shall be held to be invalid, the remainder of this Resolution and the application of such provision to other persons and circumstances shall nevertheless be valid, and the City Council hereby declares that this Resolution would have been enacted without such invalid provision.

Section 6. It is officially found, determined, and declared that the meeting at which this Resolution is adopted was open to the public and public notice of the time, place, and subject matter of the public business to be considered at such meeting, including this Resolution, was given, all as required by Chapter 551, Texas Government Code, as amended.

Section 7. This Resolution shall be in force and effect from and after its final passage, and it is so resolved.

PASSED AND ADOPTED, this ____ day of _____, 2025.

CITY OF SCHERTZ, TEXAS

Ralph Gutierrez, Mayor

ATTEST:

Sheila Edmondson, City Secretary

EXHIBIT A

STANDARD UTILITY AGREEMENT WITH TxDOT

MEMO

3/9/2025



To: Kyle Madsen, JD, CTCM
Director, Right of Way Division

Through: Charles C. Benazvidez, P.E.
District Engineer, San Antonio - 15 District

Initial: _____

From: Richard De La Cruz, P.E.
Director of TP&D, San Antonio - 15 District

Initial: _____

Subject: Standard Utility Agreement, City of Schertz

Utility ID #: U00020217

ROWIS U#: N/A

RCSJ: 0016-06-114 & 0016-05-116

County: Guadalupe & Comal

CCSJ: 0016-06-115 & 0016-05-111

HWY: IH 35

From: FM 3009 - Guadalupe/Comal CL

To: Guadalupe/Comal CL -FM 1103

Our District has executed a Standard Utility Agreement with the subject Utility for the above-referenced project and is now being submitted for file. This agreement provides funding for the utility to adjust their facilities in correlation with the included Agreement Assembly that contains the Standard Utility Agreement (ROW-U-35), attachments 'A' through 'H', and attached checklist.

The location of the Utility is in conflict with the Highway Construction Project as follows:

The ROW is being widened and the northbound and southbound frontage roads are shifting out causing conflicts with the City's water and wastewater lines.

The utility will complete the following to clear the conflict:

Joint-bid water relocations: remove/aband 23,110 LF of 12" waterline, replace with 22,754 LF of 12" waterline (includes 2 crossings). Non-joint-bid wastewater relocations: remove/abandon a total of 3,427 LF of 8", 10", 14", & 16" wastewater

The following will be used by the utility:
(all that apply)

Internal Labor
Consultant Engineering (rates supplied)
ROW-U-48 A Open Solicitation of bids
ROW-U-48 E Joint Bid with TxDOT

The Utility is aware that they will need to submit specific documents, prior to or at billing, as designated on the attached checklist.

A courtesy review was performed by:

This Standard Utility Agreement has been reviewed and approved by San Antonio - 15 Districts Utility Coordinator, TP&D Director, and District Engineer.

Should you have any questions please contact: Raul San Miguel
Utility Coordinator
210-615-5947
Raul.SanMiguel@txdot.gov

Utility Coordinator's Agreement Checklist

Project / Agreement Information

Checklist

Your Name: Raul San Miguel
Your Title: Utility Coordinator
Your Phone: 210-615-5947
Your Email: Raul.SanMiguel@txdot.gov
Supervisors Name: Richard De La Cruz, P.E.
Supervisors Title: Director of TP&D
Supervisors Phone: 210-615-6434
Supervisors Email: Richard.DeLaCruz@txdot.gov
District Engineer: Charles C. Benavidez, P.E.
Title: District Engineer
District Engineer's Phone: 210-615-5825
District Engineer's Email: Charles.Benavidez@txdot.gov
District: San Antonio - 15
Utility Name: City of Schertz
ROWIS U#: N/A
Utility ID#: U00020217
Date Received (District): 3/10/2025
Accounting Method (SUA B): Actual Costs
Reimbursement Justification: Interstate
Assembled By: TxDOT Utility Coordinator
County: Guadalupe & Comal
RCSJ: 0016-06-114 & 0016-05-116
CSJ: 0016-06-115 & 0016-05-111
Highway: IH 35
Limits From: FM 3009 - Guadalupe/Comal CL
Limits To: Guadalupe/Comal CL -FM 1103
TxC ROW Project ID: R00002568 & R00002567
HWY Construction Let Date: 9/1/2027
TxDOT Project Stationing Start: 3837+30
TxDOT Project Stationing End: 4175+39
Utility Adjustment Starting Station: 3934+07
Utility Adjustment Ending Station: 4159+42
Process: FUP- Interstate Highway

Environmental Clearance Date: 7/2/2015
Agreement Execution Date:
Emergency Work Authorization Date: NA
Dates of Work: **Start Date:** 05/01/25
End Date: 03/31/29 2029
Estimated Duration (Calendar Days): 1430
TOTAL ADJUSTMENT COSTS: **\$10,759,506.99**
Betterment %: 0.00%
Salvage Credit: \$0.00
Depreciation: \$0.00
Eligibility Ratio: 100.00%
SP2125 Participation: \$0.00
Amount Due from Utility via AFA: \$0.00
Amount in TxDOT Contract: \$7,039,136.50
Existing Easement Compensation at 100%: \$0.00
Amount Payable to Utility: **\$3,720,370.49**

Utility Primary Contact Information:
Utility Primary Contact: Eric Schulze
Email: eschulze@schertz.com
Phone: 210-619-1840

District Comments:

Documents included in this package:
 Engineering Rate Sheet or Confirmation (A, Estimate, External Engineering)

Description of Work: ROW is being widened and frontage roads are shifting causing conflicts with water & ww lines. Waterline: remove/abandon 23,110 LF of 12" waterline, replace with 22,754 LF of 12" waterline (includes 2 crossings) Wastewater: remove/abandon a

GENERAL:

Are all applicable forms submitted complete, up-to-date, and unmodified?*	YES
Are explanations or clarifications included where necessary for complete understanding?	YES
Is Signature authority included for representative signing forms if other than officer level? ROW-U-40	N/A
Is the CPA screenshot included? (Include immediately after checklist)	YES
Does TxDOTCONNECT TIN match CPA screenshot TIN?	YES
Does TxDOTCONNECT mail code match CPA screenshot mail code?	YES
Does TxDOTCONNECT address match CPA screenshot, and the invoice remittance address?	YES
Has the TxDOTCONNECT utility page, including utility status, been updated?	YES

ATTACHMENT A - Plans and Estimate

PLANS:

Is the project or vicinity plat provided where needed to understand scope of proposed work?	YES
Is the adjustment within Project limits or DIRECTLY related to work required within Project limits?	YES
Are the existing and proposed ROW lines, and the existing and proposed utility easements shown?	YES
Is the existing facility including nature of conflicts and eligibility lengths or pole count per page shown?	YES
Is the proposed installation demonstrating TAC compliance, distance from ROW, and depth or clearance shown?	YES
Are profile view or cross-sections of crossings to show casing, depth or clearance provided?	YES
Do the plans indicate TxDOT project stationing and offsets from centerline?	YES
Are specifications for both existing and proposed facility sufficient to verify betterment or in-kind?	YES

ESTIMATE:

Is the estimate properly and adequately itemized and detailed?	YES
Have materials subject to Buy America compliance been identified on the estimate?*	YES
Is the estimate free of all ineligible costs? (Utility Manual, Ch 7, Sec 2)	YES
Have replacement easement costs been verified and approved as appropriate? (ROW Manager approval)	NO
Have the estimate quantities been compared and reconciled to plans and statement of work in agreement?	YES
Is a Betterment ratio applicable? (if so, see Attachment "G")	N/A
If yes, is ratio calculated and applied properly?	N/A
Is a Depreciation credit applicable?	N/A
If yes, is credit calculated and applied properly?	N/A
Is a Salvage credit applicable?	N/A
If yes, is credit calculated and applied properly?	N/A
Have overheads and loadings been explained and checked for reasonableness?	YES
Are all units and rates multiplied correctly to obtain a sum? Are all subtotals and totals correct?	YES
Has the utility consultant engineering contract been reviewed and approved by the District?	NO

Attachment "B" - Utility's Accounting Method

Is an acceptable accounting method (Actual cost or Lump Sum) indicated?	YES
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Attachment "C" - Utility's Schedule of Work and Estimated Date of Completion

Has the schedule of work been provided by the utility?	YES
Is the start date of the accommodation included? (physical adjustment or relocation)	YES

Attachment "D" - Statement covering Contract Work - Is the ROW-U-48 included?

Is the ROW-U-48 included?	YES
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Attachment "E" - Utility Joint Use Agreement

Is Joint Use Agreement Included? (plans showing area of Joint Use required)	N/A
Is the Permit included?	NO

Attachment "F" - Eligibility Ratio - correctly calculated and recommended?

Is the Eligibility Ratio correctly calculated and recommended?	YES
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Attachment "G" - Betterment Calculation and Estimates

Are betterment and in-kind estimates included?	N/A
Is the betterment ratio applied properly?	N/A

Attachment "H" - Proof of Property Interest - ROW-U-Affidavit

Has proof of property or compensable interest ownership by utility been established?	YES
Have corporate succession documentation been provided? (chain of ownership)	N/A
Is a quit claim required?	N/A

This SUA will be submitted to ROW Division in a single PDF file via: Box.com

Remittance Address: 1400 Schertz Parkway
 Schertz, TX 78154
TIN# / Mail Code: 74-1469344

Prepared By: Raul SanMiguel 3/9/2025
Signature: _____



Standard Utility Agreement

U Number: **NA** Utility ID: **U00020217**

District: San Antonio
ROW Project ID (TxC): R00002567 &
R00002568
ROW CSJ: 0016-05-116 & 0016-06-114
Construction CSJ: 0016-05-111 & 0016-06-115
Highway Project Letting Date: 09/01/2027

County: Guadalupe & Comal
Highway: IH 35
From: FM 3009 - Guadalupe/Comal CL
To: Guadalupe/Comal CL - FM 1103

This Agreement by and between the State of Texas, acting by and through the Texas Transportation Commission, ("**State**"), and City of Schertz, ("**Utility**"), acting by and through its duly authorized representative, shall be effective on the date of approval and execution by and on behalf of the **State**.

WHEREAS, the **State** has deemed it necessary to make certain highway improvements as designated by the **State** and approved by the Federal Highway Administration within the limits of the highway as indicated above (the "**Highway Project**");

WHEREAS, the proposed Highway Project will necessitate the adjustment, removal, and/or relocation of certain facilities of the **Utility** as indicated in the following statement of work: The ROW is being widened and frontage roads are shifting causing conflicts with the existing water & wastewater lines. Waterline: remove/aband 23,110 LF of 12" waterline and install 22,754 LF of 12" waterline (includes 2-12" crossings). Wastewater: remove/abandon a total of 3,427 LF of 4", 8", 10", 14", & 16" wastewater lines, and install a total of 3,312 LF 6", 8", 10", 14", & 16" wastewater lines (including 2 - 8" and 1-16" crossings) ; and more specifically as shown in the **Utility's** plans, specifications and estimated costs, which are attached hereto as Attachment "A".

WHEREAS, the **State** will participate in the costs of the adjustment, removal, and relocation of certain facilities to the extent as may be eligible for State and/or Federal participation.

WHEREAS, the **State**, upon receipt of evidence it deems sufficient, acknowledges the **Utility's** interest in certain lands and facilities that entitle it to reimbursement for the adjustment, removal, and relocation of certain of its facilities located upon the lands as indicated in the statement of work above.

NOW, THEREFORE, BE IT AGREED:

The **State** will pay to the **Utility** the costs incurred in adjustment, removal, and relocation of the **Utility's** facilities up to the amount said costs may be eligible for **State** participation.

All conduct under this agreement, including but not limited to the adjustment, removal, and relocation of the facility, the development and reimbursement of costs, any environmental requirements, and retention of records will be in accordance with all applicable federal and state laws, rules and regulations, including, without limitation, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act, 42 U.S.C. §§ 4601, et seq., the National Environmental Policy Act, 42 U.S.C. §§ 4321, et seq., the Buy America provisions of 23 U.S.C. § 313 and 23 CFR 635.410, as amended, Texas Transportation Code § 223.045, the Utility Relocations, Adjustments, and Reimbursements provisions of 23 CFR 645, Subpart A, and the Utility Accommodation provisions of 23 CFR 645, Subpart B.

The **Utility** shall supply, upon request by the **State**, proof of compliance with the aforementioned laws, rules, regulations, and guidelines prior to the commencement of the adjustment, removal, and relocation of the facility.

Initial Date
TxDOT

Initial Date
Utility

The Utility shall not commence any physical work, including without limitation site preparation, on the State's right of way or future right of way, until TxDOT provides the Utility with written authorization to proceed with the physical work upon TxDOT's completion and clearance of its environmental review of the Highway Project. Any such work by the Utility prior to TxDOT's written authorization to proceed will not be eligible for reimbursement and the Utility is responsible for entering any property within the proposed limits of the Highway Project that has not yet been acquired by TxDOT. This written authorization to proceed with the physical work is in addition to the authorization to commence work outlined below. Notwithstanding the foregoing, the provisions of this paragraph are required only when TxDOT has not obtained completion and clearance of its environmental review of the Highway Project prior to the execution of this Agreement by the State and the Utility.

The **Utility** shall comply with the Buy America provisions of 23 U.S.C. § 313, 23 CFR 635.410, as amended, and the Steel and Iron Preference provisions of Texas Transportation Code § 223.045 and, when products that are composed predominately of steel and/or iron are incorporated into the permanent installation of the utility facility, use domestically manufactured products. TxDOT Form 1818 (Material Statement), along with all required attachments, must be submitted, prior to the commencement of the adjustment, removal, and relocation of the facility, as evidence of compliance with the aforementioned provisions. Failure to submit the required documentation or to comply with the Buy America, and Steel and Iron Preference requirements shall result in: (1) the **Utility** becoming ineligible to receive any contract or subcontract made with funds authorized under the Intermodal Surface Transportation Efficiency Act of 1991; (2) the **State** withholding reimbursement for the costs incurred by the **Utility** in the adjustment, removal, and relocation of the **Utility's** facilities; and (3) removal and replacement of the non-compliant products.

The **Utility** agrees to develop relocation or adjustment costs by accumulating actual direct and related indirect costs in accordance with a work order accounting procedure prescribed by the **State**, or may, with the **State's** approval, accumulate actual direct and related indirect costs in accordance with an established accounting procedure developed by the **Utility**. Bills for work hereunder are to be submitted to the **State** not later than one (1) year after completion of the work. Failure to submit the request for final payment, in addition to all supporting documentation, within one (1) year after completion of the work may result in forfeiture of payment for said work.

When requested, the **State** will make intermediate payments at not less than monthly intervals to the **Utility** when properly billed. Such payments will not exceed 90 percent (90%) of the eligible cost as shown in each such billing. Intermediate payments shall not be construed as final payment for any items included in the intermediate payment.

The **State** will, upon satisfactory completion of the adjustment, removal, and/or relocation and upon receipt of final billing prepared in an approved form and manner and accounting for any intermediate payments, make payment in the amount of 90 percent (90%) of the eligible costs as shown in the final billing prior to audit and after such audit shall make an additional final payment totaling the reimbursement amount found eligible for **State** reimbursement.

Alternatively, if the approved accounting method is a lump sum, the **State** agrees to pay the **Utility** an agreed lump sum of \$NA as supported by the attached estimated costs. The **State** will, upon satisfactory completion of the adjustments, removals, and relocations and upon receipt of a final billing, make payment to the **Utility** in the agreed amount.

Upon execution of this agreement by both parties hereto, the **State** will, by written notice, authorize the **Utility** to perform such work diligently and to conclude said adjustment, removal, and relocation by the stated completion date which is attached hereto in Attachment "C". The completion date shall be extended for delays caused by events outside the **Utility's** control, including an event of Force Majeure, which shall include a strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, accident, fire, flood or other act of God, sabotage, or other events, interference by the **State** or any other party with the **Utility's** ability to proceed with the work, or any other event in which the **Utility** has exercised all due care in the

Initial Date
TxDOT

Initial Date
Utility

prevention thereof so that the causes of other events are beyond the control and without the fault or negligence of the **Utility**.

This agreement in its entirety consists of the following elements:

Standard Utility Agreement – ROW-U-35;

- Plans, Specifications, and Estimated Costs (Attachment “A”);
- Accounting Method (Attachment “B”);
- Schedule of Work (Attachment “C”);
- Statement Covering Contract Work – ROW-U-48 (Attachment “D”);
- Utility Joint Use Agreement – ROW-U-JUA and/or Utility Installation Request – Form 1082 (Attachment “E”);
- Eligibility Ratio (Attachment “F”);
- Betterment Calculation and Estimate (Attachment “G”); and
- Proof of Property Interest – ROW-U-Affidavit (Attachment “H”).

All attachments are included herein as if fully set forth. In the event it is determined that a substantial change from the statement of work contained in this agreement is required, reimbursement therefore shall be limited to costs covered by a modification or amendment of this agreement or a written change or extra work order approved by the **State** and the **Utility**.

This agreement is subject to cancellation by the **State** at any time up to the date that work under this agreement has been authorized, and such cancellation will not create any liability on the part of the **State**. However, the **State** will review and reimburse the **Utility** for eligible costs incurred by the **Utility** in preparation of this Agreement.

The State Auditor may conduct an audit or investigation of any entity receiving funds from the **State** directly under this contract or indirectly through a subcontract under this contract. Acceptance of funds directly under this contract or indirectly through a subcontract under this contract acts as acceptance of the authority of the State Auditor, under the direction of the Legislative Audit Committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

The **Utility** by execution of this agreement does not waive any of the rights that the **Utility** may have within the limits of the law.

It is expressly understood that the **Utility** conducts the adjustment, removal, and relocation at its own risk, and that the **State** makes no warranties or representations regarding the existence or location of utilities currently within its right of way.

Initial Date
TxDOT

Initial Date
Utility

The signatories to this agreement warrant that each has the authority to enter into this agreement on behalf of the party represented.

UTILITY

EXECUTION RECOMMENDED:

Utility: City of Schertz
Name of Utility

Director of TP&D (or designee), San Antonio District

By: _____
Authorized Signature

Steve Williams
Print or Type Name

Title: City Manager

Date: _____

THE STATE OF TEXAS

Executed and approved for the Texas Transportation Commission for the purpose and effect of activating and/or carrying out the orders, established policies or work programs heretofore approved and authorized by the Texas Transportation Commission.

By: _____
District Engineer (or designee)

Date: _____

Initial Date
TxDOT

Initial Date
Utility

Attachment "A" Plans, Specifications, and Estimated Costs

All material items within the cost estimate that must meet Buy America or Steel and Iron Preference Provision requirements must be indicated with an asterisk (*).

- Currently, **this project does not plan to use** iron and steel subject to Buy America requirements. In the event that Buy America compliant materials are used during construction on this project, compliance documentation will be provided.

- There are non-domestic iron and steel materials in this project that fall under the De Minimus equation. Calculation showing the total cost does not exceed one-tenth of one percent (0.1 %) of the individual utility agreement amount or \$2,500.00, whichever is greater is required.

- We understand the Buy America Compliance Requirements for iron and steel and will supply the required documentation to TxDOT indicating compliance with this provision. The following documents will be supplied prior to installation of the materials:
 - 1) Form 1818 - Material Statement
 - 2) Material Test Reports or Certifications

Initial Date
TxDOT

Initial Date
Utility

Utility Adjustment for TxDOT Project

TxDOT STANDARD
SUA ESTIMATE

City of Schertz
IH 35 North NEX

RCSJ: 0016-06-114 & 0016-05-116
Utility ID#: U00020217
UNNUMBER:

The cost estimate items must be sufficiently detailed to provide TxDOT with a reasonable basis for analysis. Items should include appropriate units and unit price for each (See Utility Manual, Chapter 6 Section 2). Applies to All "EA" or "LS" items

Materials to be purchased by TxDOT - JOINT BID					
Line Item / Item Description	Bid Code	Unit	Quantity	\$/Unit	Total
Prices below include installation:					\$ -
TRENCH EXCAVATION SAFETY PROTECTION		LF	22093	\$14.00	\$ 309,302.00
* 24" SPLIT STEEL CASING		LF	117	\$325.00	\$ 38,025.00
4" PVC SDR-21 WATERLINE		LF	63	\$60.00	\$ 3,780.00
12" PVC C-900 DR-14 WATERLINE		LF	20968	\$140.00	\$ 2,935,520.00
12" PVC C-900 DR-14 WATERLINE (CARRIER PIPE)		LF	1786	\$160.00	\$ 285,760.00
SERVICE RELAY (SHORT 2")(TY "K" COPPER)		EA	29	\$1,710.00	\$ 49,590.00
* 12" GATE VALVES		EA	58	\$6,240.00	\$ 361,920.00
FIRE HYDRANT ASSEMBLY		EA	67	\$9,020.00	\$ 604,340.00
* GREY IRON AND DUCTILE-IRON FITTINGS (PER TON)		EA	7.99	\$2,200.00	\$ 17,578.00
TIE-IN (COMP)(4")		EA	2	\$4,790.00	\$ 9,580.00
TIE-IN (COMP)(12")		EA	25	\$8,120.00	\$ 203,000.00
JACKING, BORING OR TUNNELING PIPE		LF	660	\$600.00	\$ 396,000.00
* 24" STEEL CASING (WATER)		LF	1786	\$275.00	\$ 491,150.00
REMOVE EXISTING WATERLINES		LF	23110	\$13.00	\$ 300,430.00
PAVEMENT REPAIR (SQUARE YARDS)		EA	1740	\$226.00	\$ 393,240.00
MOBILIZATION		EA	1	\$639,921.50	\$ 639,921.50
X Select this row and Insert to add rows. Drag to fill formulas from top cell.					\$ -
SUBTOTAL					\$ 7,039,136.50

Internally Supplied Materials - documented with Certified Ledger at Payment				
Line Item / Item Description	Unit	Quantity	\$/Unit	Total
Select this row and Insert to add rows. Drag to fill formulas from top cell.				\$ -
OVERHEAD (%)		Enter % if applicable	0.00%	\$ -
SUBTOTAL				\$ -

Externally Acquired Materials - documented with Invoices and/or Checks				
Line Item / Item Description	Unit	Quantity	\$/Unit	Total
Prices below include installation:				\$ -
SANITARY SEWER INTERNAL DROP MANHOLE (5' DIA.)	EA	1	\$30,000.00	\$ 30,000.00
SANITARY SEWER MANHOLE (5' DIA.)	EA	8	\$8,500.00	\$ 68,000.00
REMOVE SANITARY FORCE MAIN (4")	LF	460	\$24.00	\$ 11,040.00
REMOVE SANITARY SEWER MAIN (8")	LF	194	\$25.00	\$ 4,850.00
REMOVE SANITARY SEWER MAIN (10")	LF	1050	\$26.00	\$ 27,300.00
REMOVE SANITARY FORCE MAIN (14")	LF	600	\$28.00	\$ 16,800.00
REMOVE SANITARY SEWER MANHOLE	EA	10	\$1,060.00	\$ 10,600.00
ABANDON SANITARY SEWER MAIN (8")	LF	745	\$125.00	\$ 93,125.00
ABANDON SANITARY SEWER MAIN (16")	LF	378	\$150.00	\$ 56,700.00
TRENCH EXCAVATION SAFETY PROTECTION	LF	2389	\$12.00	\$ 28,668.00
8" CARRIER PIPE (PVC)	LF	602	\$230.00	\$ 138,460.00
* 24" STEEL CASING (SEWER)	LF	622	\$280.00	\$ 174,160.00
* 30" STEEL CASING (SEWER)	LF	328	\$281.00	\$ 92,168.00
JACKING, BORING OR TUNNELING PIPE	LF	905	\$600.00	\$ 543,000.00
8" PVC SANITARY SEWER LINE	LF	515	\$127.00	\$ 65,405.00
10" PVC SANITARY SEWER LINE	LF	1163	\$135.00	\$ 157,005.00
12" PVC SANITARY SEWER LINE	LF	15	\$150.00	\$ 2,250.00
* 1" AIR RELEASE AND VACUUM RELIEF VALVE	EA	2	\$15,000.00	\$ 30,000.00
SEWER MAIN TELEV INSPECTION (POST-CONST)	LF	2295	\$5.50	\$ 12,622.50

WATER/WASTEWATER CREW LEADER 1	HR	132	\$57.36	\$	7,571.52
WATER/WASTEWATER CREW LEADER 2	HR	132	\$45.49	\$	6,004.68
Select this row and Insert to add rows. Drag to fill formulas from top cell.				\$	-
				SUBTOTAL	\$ 20,980.08
Internal Administration					
ADMIN ASSISTANT	HR	142	\$37.48	\$	5,322.16
Select this row and Insert to add rows. Drag to fill formulas from top cell.				\$	-
				SUBTOTAL	\$ 5,322.16
Internal Engineering/ Survey/ Inspection/ Administration Overhead					
OVERHEAD (%)		Enter % if applicable	0.00%	\$	-
				SUBTOTAL	\$ 56,171.44

External Engineering - Cost documented with INVOICES and / or CHECKS					
Line Item / Item Description	Unit	Quantity	\$/Unit		Total
SR PROJECT MANAGER	HR	255	\$297.00	\$	75,735.00
PROJECT MANAGER/SR ENGINEER	HR	983	\$223.00	\$	219,209.00
MID PROJECT ENGINEER	HR	1504	\$177.00	\$	266,208.00
ENGINEER EIT	HR	2540	\$129.00	\$	327,660.00
SURVEY TECHNICIAN	HR	40	\$128.00	\$	5,120.00
ADMIN ASSISTANT	HR	28	\$80.00	\$	2,240.00
SR RPLS MANAGER	HR	40	\$252.00	\$	10,080.00
APPRAISAL SERVICES PER PARCEL	EA	6	\$3,000.00	\$	18,000.00
APPRAISAL REVIEW SERVICES PER PARCEL	EA	6	\$1,600.00	\$	9,600.00
ACQUISITION SERVICES PER PARCEL	EA	6	\$11,000.00	\$	66,000.00
PREPARE METES/BOUNDS PER PARCEL	EA	6	\$5,000.00	\$	30,000.00
SURVEY TO STAKE PROP EASEMENTS PER PARCEL	EA	6	\$5,000.00	\$	30,000.00
Select this row and Insert to add rows. Drag to fill formulas from top cell.				\$	-
				SUBTOTAL	\$ 1,059,852.00
External Survey/ Landman					
SURVEY 2-MAN CREW	HR	120	\$196.00	\$	23,520.00
SUE TEST HOLES	EA	20	\$3,000.00	\$	60,000.00
Select this row and Insert to add rows. Drag to fill formulas from top cell.				\$	-

				SUBTOTAL	\$ 83,520.00
External Inspection					
SR PROJECT MANAGER	HR	297	\$131.00	\$	38,907.00
CONSTRUCTION INSPECTOR IV	HR	1722	\$140.00	\$	241,080.00
ADMIN ASSISTANT	HR	45	\$80.00	\$	3,600.00
CONSTRUCTION TRUCK (PER MONTH)	EA	21	\$1,500.00	\$	31,500.00
Select this row and Insert to add rows. Drag to fill formulas from top cell.					\$ -

				SUBTOTAL	\$ 315,087.00
Engineering / Administration / Inspection SUBTOTAL				\$	1,514,630.44

Existing Easement Compensation - following Quit Claim / Eligibility Ratio not applied. ROW PM must confirm rate.					
Line Item / Item Description	Unit	Quantity	\$/Unit	Total	
Select this row and Insert to add rows. Drag to fill formulas from top cell.					
				SUBTOTAL	\$ -

Replacement Easement Compensation - following Quit Claim / Eligibility Ratio is applied. ROW PM must confirm rate. Documentation of actual cost must be supplied at billing.					
PARCEL 3 - SCHERTZ 35 LLC	EA	1	\$6,159.00	\$ 6,159.00	
PARCEL 4 - GREEN SIDE INVEST GROUP	EA	1	\$12,500.00	\$ 12,500.00	
PARCEL 5 - NOLLEY CARIBEAN PROP	EA	1	\$41,828.00	\$ 41,828.00	
PARCEL 6 - PURPOSE CHURCH	EA	1	\$25,275.00	\$ 25,275.00	
PARCEL 7 - SCHERTZ STATION LTD	EA	1	\$24,868.00	\$ 24,868.00	
Select this row and Insert to add rows. Drag to fill formulas from top cell.					
				SUBTOTAL	\$ 110,630.00

Easement Compensation SUBTOTAL				\$	110,630.00
--------------------------------	--	--	--	----	------------

SUMMARY:		Total Project Cost	\$ 10,759,506.99
		Amount Payable in TxDOT Contract (Joint Bid)	\$ 7,039,136.50
		Utility Cost	\$ 3,720,370.49
General & Administrative OH	0%		\$ -
		Gross Reimbursable to Utility	\$ 3,720,370.49
		Amount Due to TxDOT Via an Advance Funding Agreement	\$ -
		SALVAGE and/or Depreciation CREDIT	\$ -
BETTERMENT RATIO	0.00%	Ratio Deduction	\$ -
		Amount reimbursable after Betterment and Salvage Credit	\$ 3,720,370.49
ELIGIBILITY RATIO	100.00%		
		NET REIMBURSEMENT TO UTILITY	\$ 3,720,370.49

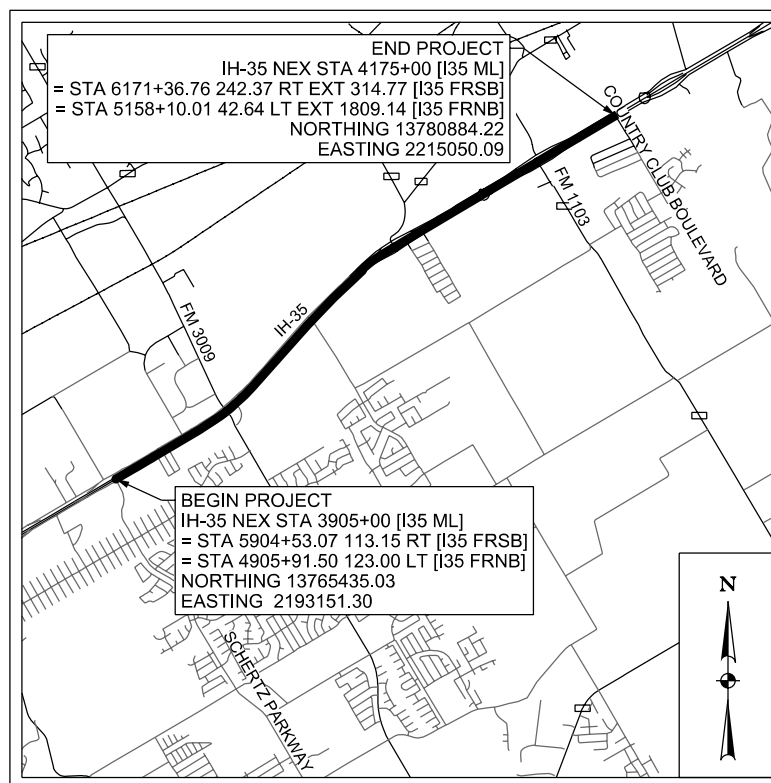


ENGINEERING & PUBLIC WORKS

IH-35 NEX NORTH
FROM SCHERTZ PARKWAY TO COUNTRY CLUB BOULEVARD
CITY OF SCHERTZ UTILITY RELOCATION



Mayor.....Ralph Gutierrez
 Councilmember (Place 1).....Mark E. Davis
 Councilmember (Place 2).....Michelle Watson
 Councilmember (Place 3).....Paul Macaluso
 Councilmember (Place 4).....Tiffany Gibson
 Councilmember (Place 5).....Robert Westbrook
 Councilmember (Place 6).....Allison Heyward
 Councilmember (Place 7).....Tim Brown
 City Manager.....Steve Williams
 City Engineer.....Kathryn J. Woodlee, P.E., CFM



LOCATION MAP
N.T.S.

PREPARED BY:



TBPELS FIRM REGISTRATION #312
 100 NE LOOP 410, SUITE 701
 SAN ANTONIO, TEXAS 78216
 TEL (210) 798-1895
 FAX (210) 798-1896



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC., 100 N.E. LOOP 410 SUITE, 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

SHEET			GENERAL
	1		TITLE SHEET
	2		INDEX OF SHEETS
3	-	5	GENERAL NOTES
	6		WATER QUANTITY SUMMARY
SHEET			WATER UTILITY SHEETS
7	-	11	PROJECT LAYOUTS
12	-	13	I35 WATER CROSSING PLAN AND PROFILES
14	-	42	NORTHBOUND WATER PLAN AND PROFILES
43	-	67	SOUTHBOUND WATER PLAN AND PROFILES
SHEET			STANDARDS
68	-	75	WATER STANDARDS AND DETAILS



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE. 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX WATER RELOCATION PROJECT		
			INDEX OF SHEETS		
Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2339
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

GENERAL NOTES

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AND ALL RESPECTIVE GOVERNMENTAL OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION 72 HOURS PRIOR TO STARTING CONSTRUCTION. ANY TIE-IN SHALL BE COORDINATED BY THE CONTRACTOR WITH THE PUBLIC WORKS DEPARTMENT, AT LEAST 48 HOURS IN ADVANCE.
- CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.
- ANY DISCREPANCY OR CONFLICT WITHIN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE CITY. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ENGINEERS ATTENTION AND CLARIFIED DURING BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ENGINEERS INTERPRETATION. ALL ITEMS, WORK, AND IMPROVEMENTS SHOWN OR INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE COMPLETED FOR THE PRICES BID, WHETHER OR NOT A SEPARATE PAY ITEM IS INCLUDED IN THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS THROUGH THE COURSE OF CONSTRUCTION AND SHALL SUBMIT SAME TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE WORK BY OWNER.
- THE CITY OF SCHERTZ WILL EMPLOY AN INDEPENDENT TESTING LABORATORY FOR REQUIRED COMPACTION AND OTHER MATERIALS TESTING. TXDOT CONTRACTOR WILL COORDINATE WITH INDEPENDENT LABORATORY FOR PROJECT ACCESS AND TESTING LOCATIONS. EMPLOYMENT OF A TESTING LABORATORY BY THE CONTRACTOR SHALL NOT RELIEVE CONTRACTOR OF ITS OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL FURNISH ALL ASSISTANCE REQUIRED OF HIM BY ALL INSPECTORS IN OBTAINING SAMPLES AT THE EXPENSE OF THE CONTRACTOR.
- IF IN THE OPINION OF THE INSPECTOR, BASED ON TESTING SERVICE REPORTS AND INSPECTION, MATERIALS, COMPACTION OR ANY OTHER SPECIFICATIONS ARE BELOW THE SPECIFIED REQUIREMENTS THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AND RE-TEST TO OBTAIN THE SPECIFIED PARAMETERS AT NO ADDITIONAL EXPENSE.
- FOR ALL PAVEMENT LAYERS, A PASSING TEST RESULT IS REQUIRED WITHIN 48 HOURS OF PLACING THE NEXT LAYER OR RETESTING WILL BE REQUIRED.
- DESIGN AND CONSTRUCTION STANDARDS REQUIRED:
 - PROJECT CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS, & DESIGN REPORTS.
 - CITY OF SCHERTZ PUBLIC WORKS SPECIFICATION MANUAL.
 - PUBLIC WORKS DESIGN GUIDE.
 - PUBLIC WORKS TECHNICAL SPECIFICATIONS.
 - STANDARD DETAILS.
- UNLESS OTHERWISE SHOWN IN THESE PLANS, SIDEWALKS WILL BE CONSTRUCTED CONCURRENT WITH MAIN LOT STRUCTURE.
- ROUGH GRADING MUST BE DONE ON ALL LOTS PRIOR TO SUBDIVISION PRELIMINARY ACCEPTANCE.
- ALL PAVEMENTS, DRIVEWAYS, SIDEWALKS, CURBING, GUTTERS, FENCES, POLES, MAILBOXES, SIGNS, TREES, SHRUBBERY, LAWNS, SOD OR OTHER PROPERTY AND SURFACE STRUCTURES ON OR ADJACENT TO THE PROJECT SITE NOT SHOWN TO BE REMOVED IN PLANS, THAT ARE DAMAGED, DISTURBED, REMOVED OR DESTROYED BY THE CONTRACTOR DURING THE WORK SHALL BE REPLACED OR RETURNED TO A CONDITION EQUAL TO THAT BEFORE THE WORK BEGAN. CONTRACTOR TO SUPPORT AND KEEP INTACT STORM DRAINS AND INLET STRUCTURES. ANY DAMAGES INCURRED WILL BE AT CONTRACTOR'S EXPENSE.

GENERAL NOTES

PUBLIC WORKS CONSTRUCTION SPECIFICATIONS

ENGINEERING AND PUBLIC WORKS	SCALE: 1"=10'	DATE: 7/1/19
DESIGN BY: BSK	DRAWN BY: BCP	CHECKED BY: JLF

UTILITIES

- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED IN THESE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL CONTACT ANY UTILITIES ENCOUNTERED FORTY-EIGHT HOURS (48) HOURS PRIOR TO EXCAVATION OPERATION.
- THE FOLLOWING IS A LIST OF TELEPHONE NUMBERS OF THE UTILITY LOCATORS FOR THE VARIOUS UTILITIES THAT MAY BE ENCOUNTERED:

TEXAS ONE CALL	1-800-245-4545 (1-800-DIG-TESS)
C.C.M.A.	210-658-6241
CITY PUBLIC SERVICE	1-800-545-6005
CENTERPOINT ENERGY ENTEX	(210)-659-6788
G.V.E.C.	(210)-672-2871
NEW BRAUNFELS UTILITY	(830)-629-8400
TIME WARNER CABLE	(210)-352-4472
AT&T	1-800-828-5127
TxDOT NEW BRAUNFELS	1-800-644-4773
CITY OF SCHERTZ PUBLIC WORKS DEPT	(210)-619-1800
GREEN VALLEY WATER DISTRICT	(830)-914-2330
SCHERTZ SEGUIN LOCAL GOV'T CORP.	(830)-401-2409
GREEN VALLEY TELEPHONE COMPANY	(830)-885-8277
GREEN VALLEY SPECIAL UTILITY DISTRICT	(831)-914-2330
- NO VALVES IN THE OWNER'S WATER DISTRIBUTION SYSTEM SHALL BE OPERATED BY THE CONTRACTOR WITHOUT PRIOR PERMISSION OF THE OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN A VALVE IS TO BE OPERATED AND SHALL ONLY OPERATE THE VALVE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. COORDINATE ALL SHUTDOWN OF MAINS FOR TIE-INS WITH OWNER 72 HOURS PRIOR TO WORK BEING COMPLETED. THE CONTRACTOR SHALL INSPECT THE MATERIALS FOR DEFECTS AT THE TIME THEY ARE UNLOADED, AND ANY MATERIALS FOUND DEFECTIVE SHALL BE REMOVED FROM THE SITE. ALL WATER WORKS MATERIAL OR SCRAP OF WHATEVER NATURE REMOVED BY THE CONTRACTOR IN THE COURSE OF THE WORK SHALL REMAIN THE PROPERTY OF THE OWNER. SALVAGED MATERIALS SHALL BE DELIVERED TO AND UNLOADED AT THE CITY PUBLIC WORKS DEPARTMENT BY THE CONTRACTOR UNDER OBSERVATION OF AND AT THE DIRECTION OF THE OWNER. ITEMS TOO HEAVY TO BE HANDLED MANUALLY WILL BE UNLOADED BY EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS UNTIL THEY HAVE BEEN TURNED IN TO THE OWNER AND UNTIL A RECEIPT FOR THEM HAS BEEN ISSUED BY THE OWNER.
- NO TIE-IN SHALL BE MADE TO THE EXISTING UTILITY SYSTEM UNTIL ALL TEST RESULTS HAVE BEEN PROVIDED TO THE CITY AND ARE VERIFIED.
- PRIOR TO TESTING, ANY CONNECTION TO THE CITY'S WATER SUPPLY SHALL BE THROUGH AN APPROVED AND TESTED BACKFLOW DEVICE.
- PLUG EXISTING SEWER BEFORE INSTALLING ANY NEW SEWER MAIN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT EXISTING SANITARY SEWER LATERALS AND WATER SERVICES SHOWN IN PLANS. ANY REPAIRS TO BE MADE AT CONTRACTORS EXPENSE.
- PROVIDE BLUE PANTED "V" ETCHED IN CURB TO IDENTIFY VALVES.
PROVIDE BLUE PANTED "X" ETCHED IN CURB TO IDENTIFY METER BOXES.
- NEW WATER MAINS TO BE PVC C900 DR14, UNLESS OTHERWISE SHOWN IN PLANS AND APPROVED BY PUBLIC WORKS OR ENGINEERING. HYDROSTATIC TESTING WILL BE PERFORMED UNDER THE SUPERVISION OF THE CITY INSPECTOR, PER STANDARD SPECIFICATION 02515 AT 200 PSI FOR 4 HOURS.
- CONTRACTORS SHOULD USE HTH FOR DISINFECTION OF WATER LINES (NOT CHLORINE INJECTION) UNLESS APPROVED OTHERWISE PRIOR TO ISSUANCE OF PERMIT.
- NEW WATERLINES SHALL BE TIED INTO EXISTING WATER SYSTEM UNDER THE SUPERVISION OF CITY PERSONNEL NO LATER THAN 14 DAYS AFTER PASSING BACTERIOLOGICAL TESTS.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO OVERFLOWS OR SPILLAGE OF SEWER OCCURS. SHOULD THIS OCCUR, THE CONTRACTOR SHALL:
 - IDENTIFY THE SOURCE OF THE SPILL AND ATTEMPT TO ELIMINATE ANY ADDITIONAL SPILLAGE.
 - NOTIFY THE CITY OF SCHERTZ PUBLIC WORKS.
 - CONTAIN THE SPILL IN PLACE AND AVOID CONTAMINATION OF STREAMS.
 - DISINFECT THE AREA OF THE SPILL WITH A MIXTURE OF HTH CHLORINE AND WATER.
 - ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY OF SCHERTZ.
- CONTRACTOR TO PROVIDE NOTICE TO RESIDENTS OF SHUTDOWN OF MAIN. CONTRACTOR TO NOTIFY RESIDENTS OF WORK WITHIN THEIR PROPERTY AND OF THE RELOCATION OF METERS. ANY COMPLAINTS BY RESIDENTS ARE TO BE PASSED IMMEDIATELY TO THE CITY INSPECTOR OR TO THE MAIN PUBLIC WORKS OFFICE. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING SANITARY SEWER LATERALS SHOWN IN PLANS. ANY REPAIRS TO BE MADE AT CONTRACTORS EXPENSE.
- ABANDONED CUSTOMER LINES SHALL BE CAPPED OR PLUGGED AT THE PROPERTY LINE.
- ASBESTOS PIPE REMOVAL AND DISPOSAL IS THE CONTRACTORS RESPONSIBILITY.



GENERAL NOTES - UTILITIES

TECHNICAL SPECIFICATION SECTION 01732

ENGINEERING AND PUBLIC WORKS	SCALE: 1"=10'	DATE: 7/1/19
DESIGN BY: BSK	DRAWN BY: BCP	CHECKED BY: JLF

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS



IH-35NEX
WATER
RELOCATION
PROJECT




DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		2340	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

GENERAL WATER NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL BE APPROVED BY THE CITY OF SCHERTZ AND COMPLY WITH THE FOLLOWING AS APPLICABLE:
 - a. CURRENT CITY OF SCHERTZ "UNIFIED DEVELOPMENT CODE"
 - b. CURRENT CITY OF SCHERTZ "PUBLIC WORKS SPECIFICATION MANUAL"
 - c. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND DRAINAGE."
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY HAVE NOTIFIED CITY OF SCHERTZ PUBLIC WORKS WITH AT LEAST **3 WORKING DAYS (72 HOURS) NOTICE**. ANY TIE-IN SHALL BE COORDINATED BY THE CONTRACTOR WITH PUBLIC WORKS.
3. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS, AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION.
 - a. CITY OF SCHERTZ PUBLIC WORKS (210) 619-1800
 - b. TEXAS STATE WIDE ONE CALL 1-800-245-4545
 - c. CITY PUBLIC SERVICE 210-353-5952
 - d. SPECTRUM 866-874-2389
 - e. GUADALUPE VALLEY ELECTRIC CO. 210-658-7033
 - f. GREEN VALLEY WATER SUPPLY CORP. (830-914-2330)
 - g. SSLGC 830-401-2409
 - h. NEW BRAUNFELS UTILITY 830-606-2074
 - i. CANYON LAKE REGIONAL WATER AUTHORITY 830-609-0543
 - j. CENTER POINT 888-876-5786
 - k. SAN ANTONIO RIVER AUTHORITY (866-345-7272)
 - l. CCMA 210-658-6241
4. **NO METER BOXES TO BE SET IN DRIVEWAYS. ANY METER BOXES SET IN DRIVEWAYS WILL BE RELOCATED AT THE CONTRACTOR'S AND / OR DEVELOPER'S EXPENSE.**
5. 2", SCHEDULE 40, PVC CASING TO BE USED FOR ALL WATER SERVICE LINES BENEATH ROADWAYS.
6. CONTRACTORS SHOULD USE HTH GRANULAR FOR DISINFECTION OF WATER LINES (NOT CHLORINE INJECTION).


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	CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	CONSTRUCTION PLAN NOTES
	STANDARD DETAIL <small>N.T.S.</small>	PW TECH. SPEC. SECTION 01145 <small> SHEET NUMBER: _____ PROJECT NO.: _____ DATE: 2/25/16 DRAWN BY: BCP CHECKED BY: BCP CHECKED BY: KJW SHEET NO.: 1 of 2 </small>

GENERAL WATER NOTES CONT'

7. NEW WATERLINES SHALL BE TIED INTO EXISTING WATER SYSTEM UNDER THE SUPERVISION OF CITY PERSONNEL NO LATER THAN 14 DAYS AFTER PASSING BACTERIOLOGICAL TESTS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION FROM DAMAGE DONE TO EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, LANDSCAPING AND STRUCTURES PER SPECIFICATION 01740.
9. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY ARBORIST AND THE CITY OF SCHERTZ CONSTRUCTION INSPECTOR FOR GUIDANCE.
10. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.
11. THE DEVELOPER DEDICATES THE WATERMAINS UPON COMPLETION BY THE DEVELOPER AND ACCEPTANCE BY THE CITY OF SCHERTZ. THE CITY OF SCHERTZ WILL OWN AND MAINTAIN SAID WATER MAINS WHICH ARE LOCATED WITHIN THIS PARTICULAR SUBDIVISION (AS APPLICABLE).
12. THE CONTRACTOR AND/OR THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.
13. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE CITY OF SCHERTZ CONSTRUCTION INSPECTOR WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.
14. THE CONTRACTOR WILL KEEP THE AREA ON TOP OF AND AROUND THE METER BOX FREE OF ALL OBJECTS AND DEBRIS

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	CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	CONSTRUCTION PLAN NOTES
	STANDARD DETAIL <small>N.T.S.</small>	PW TECH. SPEC. SECTION 01145 <small> SHEET NUMBER: _____ PROJECT NO.: _____ DATE: 2/25/16 DRAWN BY: BCP CHECKED BY: BCP CHECKED BY: KJW SHEET NO.: 2 of 2 </small>

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX WATER RELOCATION PROJECT		
			TEXAS DEPARTMENT OF TRANSPORTATION © 2021		
DSGN: NS, RDL CHECKED: PD, KA DRWN: AT, JG, AI, JB CHECKED: PD, KA	FED. RD. DIV. NO. NO. STATE DIST.	STATE TEXAS COUNTY COMAL	PROJECT NO. CONTROL NO. 0016	SECTION NO. 05	SHEET NO. 2341 JOB NO. 111, ETC

GENERAL CONSTRUCTION NOTES:

- 1) ALL IMPROVEMENTS TO BE IN ACCORDANCE WITH CITY OF SCHERTZ CODES. ALL TRAFFIC CONTROL / TRAFFIC SAFETY SHOULD BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CRITERIA CURRENT CONDITIONS.
- 2) CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- 3) CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS AND DRIVEWAYS AFFECTED BY CONSTRUCTION OF UTILITIES.
- 4) CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, AND SIGNALS FOR THE SAFETY OF THE PUBLIC AND WORKERS, AS REQUIRED.
- 5) CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION AND/OR SAFETY OF THE WORK SITE, WORKERS, SUBCONTRACTORS, MATERIALS AND/OR EQUIPMENT.
- 6) ALL DIMENSIONS ARE BASED ON PROPOSED ROADWAY CENTER LINE UNLESS SHOWN OR OTHERWISE NOTED.
- 7) CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER FOR ALL CITY, STATE, AND FEDERAL PERMITS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 8) ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER
- 9) *THESE PLANS, PREPARED BY HALFF DO NOT EXTEND TO OR INCLUDE DESIGN OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF REGISTERED PROFESSIONAL ENGINEER (S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 622 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70-TH LEGISLATURE REGULAR SESSION.*
- 10) CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY AND ALL EXCAVATIONS.
- 11) CONTRACTOR TO COORDINATE WITH THE CITY OF SCHERTZ ON WORK SCHEDULES, TESTING, GENERAL INSPECTION.
- 12) CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR EXISTING FACILITIES AND/OR UTILITIES.
- 13) INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED PRIOR TO CONSTRUCTION.
- 14) ALL EXCESS EARTHEN MATERIAL SHALL BE DISPOSED OFFSITE IN A LEGAL MANNER AT THE CONTRACTORS EXPENSE.
- 15) UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS.
- 16) CONCRETE NOTES:
 - A) ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED.
 - B) ALL CONCRETE TO BE 3000-PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
 - C) ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.
 - D) ALL EXPOSED CONCRETE WORK TO BE CHAMFERED.
- 17) DEMOLITION, REMOVAL & DISPOSAL OF ALL EXCESS CONCRETE, RUBBLE, WATER OR SEWER STRUCTURES, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
- 18) DEWATERING, IF NECESSARY, SHALL BE SUBSIDIARY TO COST PIPE.

WASTEWATER COLLECTION LINE CONSTRUCTION NOTES:

- 1) ALL PROPOSED SEWER LINES WILL BE SDR 26 PIPE MATERIAL (UNLESS OTHERWISE NOTED).
- 2) CONTRACTOR TO PROVIDE DEFLECTION TEST IN ACCORDANCE WITH TCEQ CHAPTER 217.57 (b). MANDREL TO BE PULLED IN BOTH DIRECTIONS.
- 3) CONTRACTOR TO PROVIDE LOW PRESSURE AIR TEST IN ACCORDANCE WITH TCEQ CHAPTER 217.57 (g), (1). 30 DAYS AFTER INSTALLATION. NO WATER TEST ALLOWED.
- 4) CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES & FACILITIES PRIOR TO CONSTRUCTION.
- 5) ALL CROSSING OF WASTEWATER COLLECTION LINES AND WATERLINES CONSTRUCTED IN ACCORDANCE WITH TCEQ REGULATIONS CHAPTER 290 AND 217.
- 6) CONTRACTOR TO PROVIDE LEAKAGE TEST FOR MANHOLE IN ACCORDANCE WITH TCEQ CHAPTER 217.58 (d), (b) OF THE STATE WASTEWATER CODE NO WATER TEST ALLOWED.
- 7) ALL WASTEWATER CONSTRUCTION SHALL BE IN COMPLIANCE WITH TCEQ REGULATIONS 217
- 8) ALL TESTING OF PIPE AND MANHOLES SHALL BE SUBSIDIARY TO COST OF PIPE.
- 9) POST CONSTRUCTION VIDEOS SHALL BE SUBSIDIARY TO COST OF PIPE.
- 10) CONTRACTOR TO SUBMIT A SEWER BYPASS PLAN, SIGNED AND SEALED BY A LICENSED ENGINEER IN TEXAS PRIOR TO CONSTRUCTION OF ANY SEWER IMPROVEMENTS.

WATERLINE CONSTRUCTION NOTES:

- 1) ALL WATER & WASTEWATER COLLECTION LINE CROSSING TO BE CONSTRUCTED IN ACCORDANCE WITH TCEQ REGULATION, CHAPTER 290 & 217.
- 2) ALL WATER LINE CONSTRUCTION SHALL BE IN COMPLIANCE WITH TCEQ REGULATION SECTION 290.
- 3) CONTRACTOR TO FIELD LOCATE EXISTING METERS & PROPOSED SERVICE CONNECTION LOCATIONS PRIOR TO CONSTRUCTION OF MAIN.
- 4) CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING LINES TO BE TIED IN TO NEW MAIN PRIOR TO SETTING LOCATION OF TIE-IN TEE & VALVE ON MAIN.
- 5) CONTRACTOR SHALL MAINTAIN AS MINIMUMS 10 FEET HORIZONTAL AND 2 FEET VERTICAL SEPARATION BETWEEN WATER LINES AND ANY OTHER SEWER.
- 6) NO WATER JETTING ALLOWED, MECHANICAL COMPACTION REQUIRED.
- 7) CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5-FT OF COVER ON ALL WATER LINES.
- 8) FITTINGS TO BE USED ON DEFLECTIONS AS NEEDED FOR THE INSTALLATION OF THE WATERLINE, COMPLETE IN PLACE.
- 9) MEGA LUGS TO BE USED ON ALL FITTINGS.
- 10) TRENCH EXCAVATION PROTECTION FOR WATER LINES (IF REQUIRED) SHALL BE SUBSIDIARY TO COST OF PIPE.
- 11) TESTING SHALL BE SUBSIDIARY TO COST OF PIPE.
- 12) CONTRACTOR TO INSTALL MINIMUM 2 FEET OF COVER OVER NEW WATER LINE IN LOCATIONS WHERE TEMPORARY EARTHWORK

SPECIAL NOTES (PAY ITEMS):

- 1) ALL MATERIALS CALLED OUT ON PLANS TO BE SALVAGED SHALL BE A NO SEPARATE PAY ITEM (NSPI)
- 2) THE FIRE HYDRANT ASSEMBLY CONSISTS OF THE TEE, VALVE, FIRE HYDRANT AND SPOOL PIECE. WHERE THE FIRE HYDRANT IS LOCATED AT THE END OF A 12-INCH LINE THE FIRE HYDRANT ASSEMBLY WILL CONSIST OF THE REDUCER, FIRE HYDRANT AND SPOOL PIECE.
- 3) LONG WATER SERVICE TO BE INSTALLED BY BORING INCLUDING SLEEVE. NO SEPARATE PAYMENT FOR BORING AND SLEVE.
- 4) TESTING OF WATER AND SEWER ELEMENTS SHALL BE SUBSIDIARY TO THE COST OF THE ITEM. TESTING SHALL BE A NO SEPARATE PAY ITEM.
- 5) ALL SERVICE RELAY FOR SHORT AND LONG SERVICES BID ITEMS TO INCLUDE THE FOLLOWING:
 - A) TAPPING SLEEVE.
 - B) RELOCATION OF EXISTING METER AND BOX.
- 6) SEWER BYPASS PUMPING SHALL BE SUBSIDIARY TO COST OF SEWER INSTALLATION. NO SEPARATE PAY ITEM.




THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC., 100 N.E. LOOP 410 SUITE, 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX WATER RELOCATION PROJECT		
			Texas Department of Transportation © 2021		
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2342
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC


SUMMARY OF WATER

SHEET	LOCATION	361-6004	402-6001	7299-XXXX	7330-6002	7330-6006	7330-6007	7330-6008	7330-6014	7330-6018	7330-6019	7330-6021	7330-6024	7330-6025	7330-6027	7330-6030
		FULL-DEPTH REPAIR CPCD (10")	TRENCH EXCAVATION SAFETY PROTECTION	SPLIT STEEL CASING (24") (OPEN CUT)	4" PVC D-2241 SDR-21 PIPE INSTALLATION	12" PVC C-900 DR-14 PIPE INSTALLATION	12" PVC C-900 DR-14 PIPE INSTALLATION (CARRIER PIPE)	SERVICE RELAY (SHORT 2") (TYPE "K" COPPER)	12" GATE VALVES	FIRE HYDRANT ASSEMBLY	GREY IRON AND DUCTILE-IRON FITTINGS	TIE-IN (COMP)(4")	TIE-IN (COMP)(12")	JACKING, BORING OR TUNNELING PIPE	24" STEEL CASING (WATER)	REMOVE EXISTING WATER LINES
		SY	LF	LF	LF	LF	LF	EA	EA	EA	TON	EA	EA	LF	LF	LF
WATER PLAN LAYOUTS SHEETS																
1	WATER CROSSING P&P 01		65	47		65	270		2		0.17			270	270	313
2	WATER CROSSING P&P 02		57	35		57	365		2		0.17		365	365	409	
3	WATER P&P (STA 3934.07 TO 3939.07)		65			65					0.15	1				61
4	WATER P&P (STA 3939.07 TO 3944.07)		43			43					0.05	1				39
5	WATER P&P (STA 3978.55 TO 3983.55)	23	496		13	426	70		2	2	0.17	1	1	70		497
6	WATER P&P (STA 3983.55 TO 3988.55)	90	501			501		1	2	2	0.12					501
7	WATER P&P (STA 3988.55 TO 3993.55)	154	500			500			2	2	0.12					501
8	WATER P&P (STA 3993.55 TO 3998.55)		500			500			2	2	0.12					501
9	WATER P&P (STA 3998.54 TO 4003.54)	101	517			517			3	2	0.24	1				618
10	WATER P&P (STA 4003.54 TO 4008.54)	54	501			501			2	2	0.12					500
11	WATER P&P (STA 4008.54 TO 4013.54)		500			500			2	2	0.12					501
12	WATER P&P (STA 4013.54 TO 4018.54)	87	513			343	170		4	2	0.24	1		170		596
13	WATER P&P (STA 4018.54 TO 4023.54)		502			502			2	2	0.12					499
14	WATER P&P (STA 4023.54 TO 4028.54)		501			501			1	1	0.06					501
15	WATER P&P (STA 4028.54 TO 4033.53)	59	500			443	57		2	2	0.12			57		503
16	WATER P&P (STA 4033.53 TO 4038.53)	148	538			538			4	2	0.47	1				562
17	WATER P&P (STA 4038.53 TO 4043.64)	31	500			500		1	2	2	0.29					499
18	WATER P&P (STA 4043.64 TO 4048.75)	82	377			377		5	2	2	0.19	1				378
19	WATER P&P (STA 4058.90 TO 4063.89)		93			93		1	1		0.20	2				87
20	WATER P&P (STA 4063.89 TO 4068.88)		66			66					0.10	1				60
21	WATER P&P (STA 4068.88 TO 4073.88)	63	500			500		5	1		0.06					502
22	WATER P&P (STA 4073.88 TO 4078.88)	71	546			448	98		1	2	0.11	1		98		588
23	WATER P&P (STA 4078.88 TO 4083.88)		516			516	2		1	2	0.25			2		501
24	WATER P&P (STA 4083.88 TO 4088.88)	57	525			472	53		1	2	0.25	1		53		571
25	WATER P&P (STA 4088.88 TO 4093.88)		500			432	68		1	1	0.06			68		501
26	WATER P&P (STA 4093.88 TO 4098.88)		500			500			1	2	0.12					501
27	WATER P&P (STA 4098.88 TO 4103.88)	121	605		50	482	73		1	2	0.42	1	1	73		554
28	WATER P&P (STA 4103.88 TO 4108.88)		501			501			1	2	0.12					501
29	WATER P&P (STA 4108.88 TO 4113.86)		500			360	140	2			0.10			140		498
30	WATER P&P (STA 4113.86 TO 4118.86)		3			3						1				3
31	WATER P&P (STA 4133.83 TO 4138.83)	34	484			330	154				0.09	2		154		482
32	WATER P&P (STA 3975.90 TO 3980.92)		89			89						1				103
33	WATER P&P (STA 3980.92 TO 3985.92)	62	348			348			1		0.10	1				346
34	WATER P&P (STA 4010.89 TO 4015.89)		78			78					0.09	1				54
35	WATER P&P (STA 4015.89 TO 4020.89)	19	546	35		546	74				0.27		25	74		781
36	WATER P&P (STA 4020.89 TO 4025.86)	61	507			507					0.14					504
37	WATER P&P (STA 4025.86 TO 4030.85)	46	505			466	39				0.19			39		499
38	WATER P&P (STA 4030.85 TO 4035.86)		214			214						1				214
39	WATER P&P (STA 4065.42 TO 4070.41)		77			77					0.09	1				76
40	WATER P&P (STA 4070.41 TO 4075.41)		500			500			1	2						501
41	WATER P&P (STA 4075.41 TO 4080.41)	70	500			500			1	1	0.06					501
42	WATER P&P (STA 4080.41 TO 4085.41)	58	500			500		4	1	2	0.12					501
43	WATER P&P (STA 4085.41 TO 4090.41)		502			482	20	1	1	2	0.19			20		501
44	WATER P&P (STA 4090.41 TO 4095.41)	106	500			500		3	1	2	0.12					500
45	WATER P&P (STA 4095.41 TO 4100.41)	30	501			501		1		1	0.06					501
46	WATER P&P (STA 4100.41 TO 4105.41)		500			500			1	2	0.12					501
47	WATER P&P (STA 4105.41 TO 4110.41)		499			499			1	2	0.12					500
48	WATER P&P (STA 4110.41 TO 4115.39)		373			373			1	2	0.41	1				359
49	WATER P&P (STA 4120.38 TO 4125.38)	55	383			383		3	1	1	0.15	1				389
50	WATER P&P (STA 4125.38 TO 4130.35)		300			300			1	2	0.12	1				300
51	WATER P&P (STA 4130.35 TO 4135.34)		152			152					0.10		1			150
52	WATER P&P (STA 4135.34 TO 4140.34)		500			367	133		1	2	0.12			133		500
53	WATER P&P (STA 4140.34 TO 4145.34)	58	502			502		2	1	2	0.22					500
54	WATER P&P (STA 4145.34 TO 4150.34)		501			501			1	2	0.22					500
55	WATER P&P (STA 4150.34 TO 4155.34)		501			501				1	0.06					501
56	WATER P&P (STA 4155.34 TO 4160.34)		460			460			1	2	0.19	1				460
PROJECT TOTALS		1740	22093	117	63	20968	1786	29	58	67	7.99	2	25	660	1786	23110

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS



IH-35NEX
WATER
RELOCATION
PROJECT

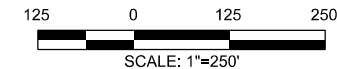


WATER SUMMARY

Texas Department of Transportation
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2343
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
			JOB NO.	111, ETC

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WTR-393900
SHEET 14
WATER P&P - CL
STA 3934+07 TO STA 3939+07

SHEET 15
WATER P&P - CL
STA 3939+07 TO STA 3944+07

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

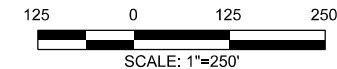
**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER PROJECT LAYOUT

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2344
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
			JOB NO.	111, ETC

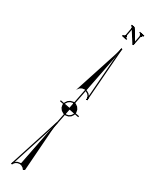
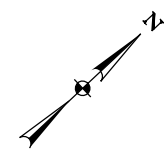
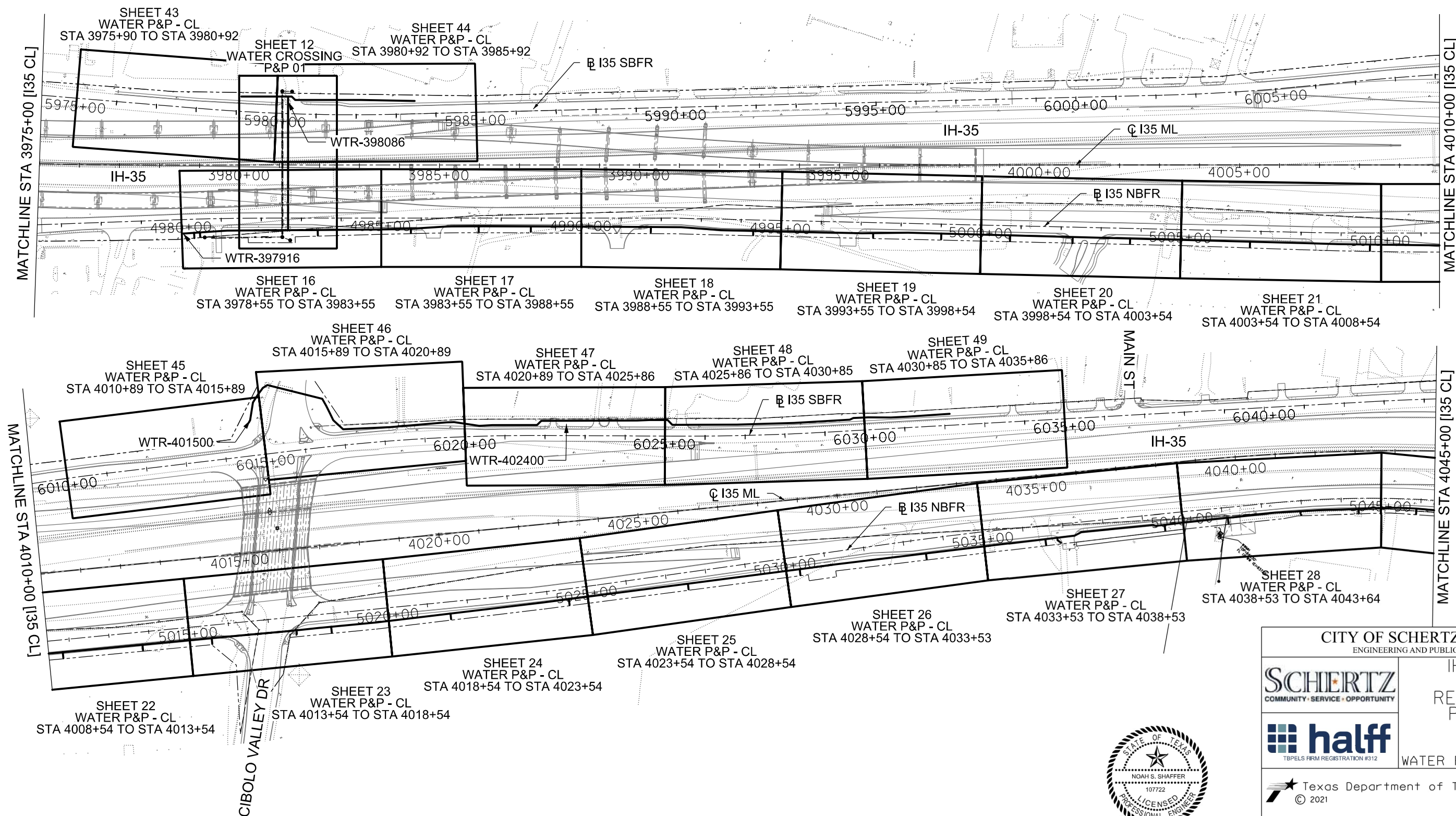




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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

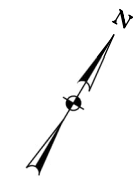
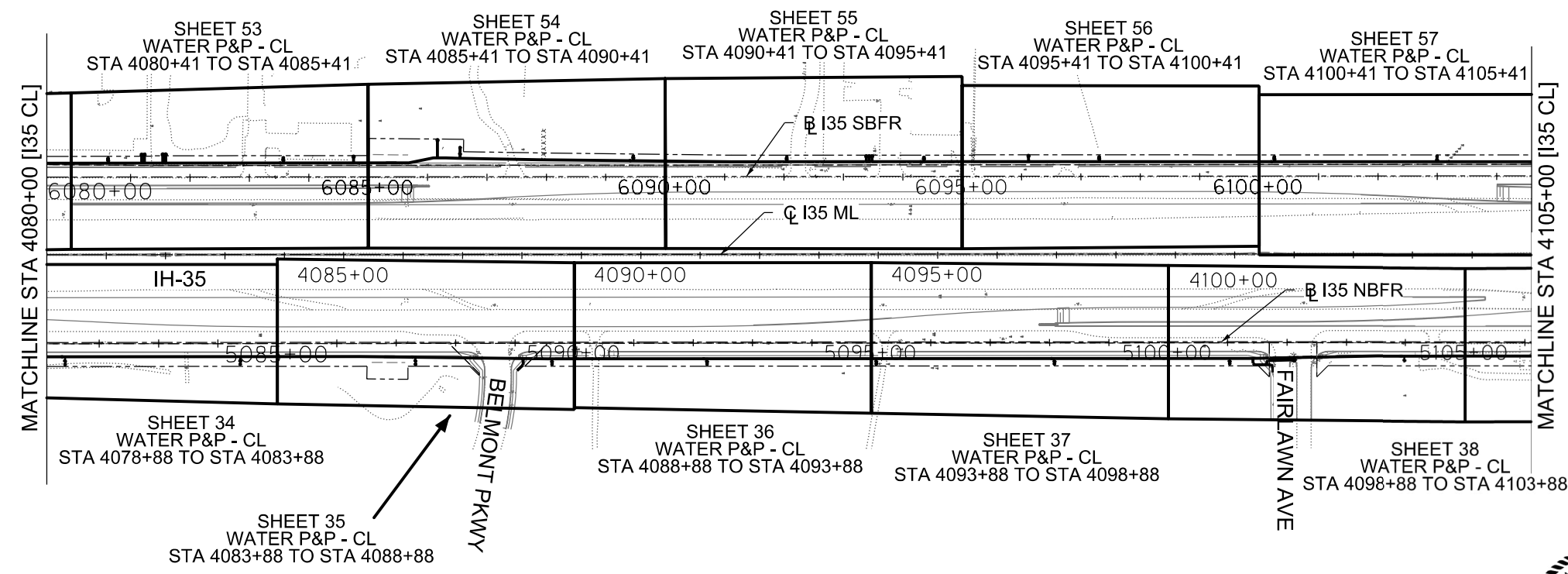
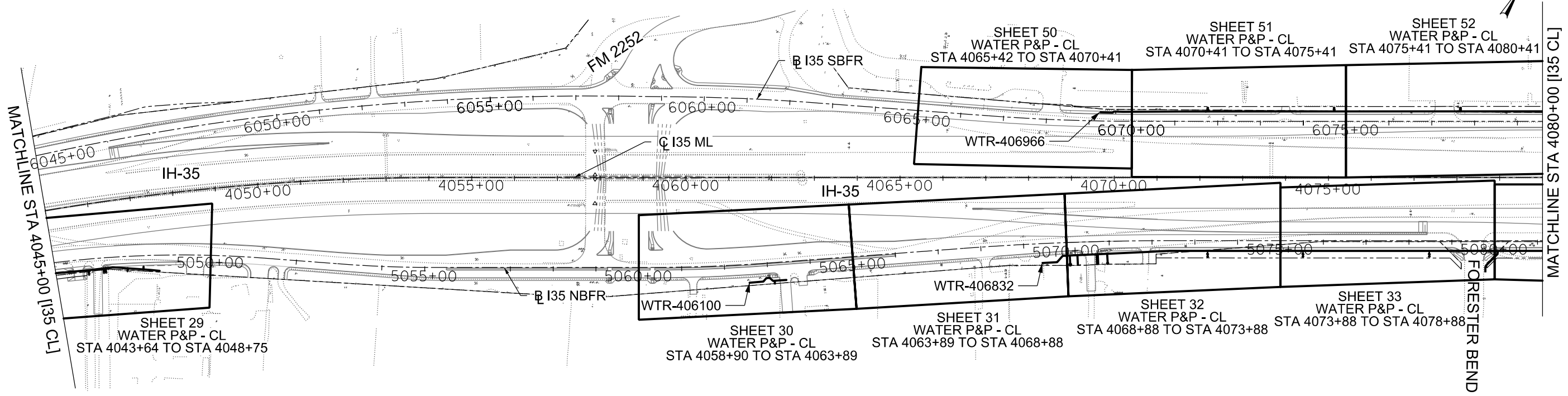
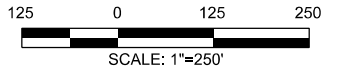
**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER PROJECT LAYOUT

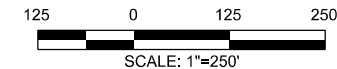
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2345
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
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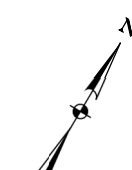
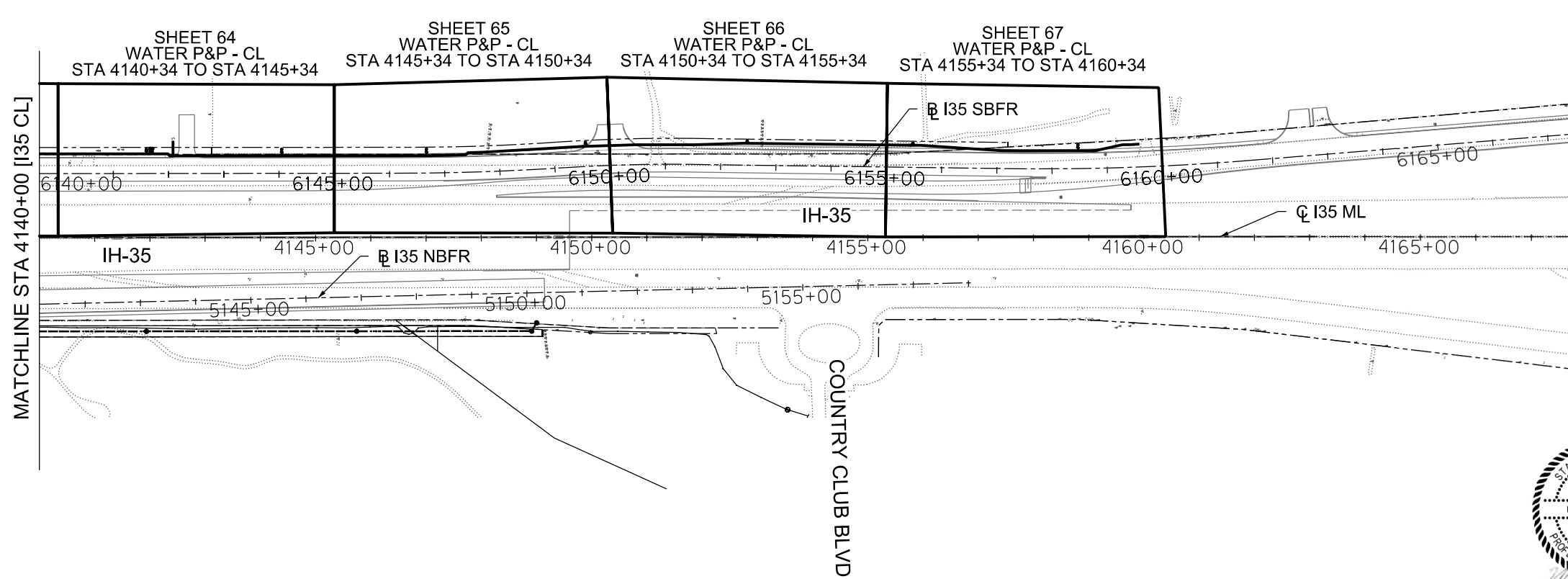
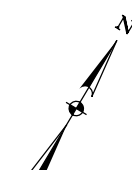
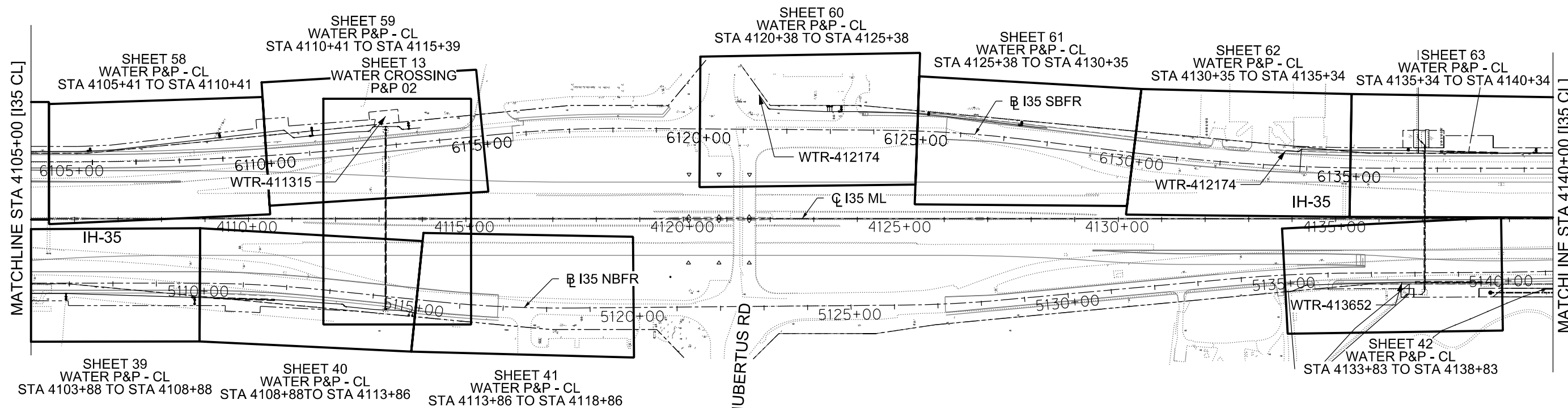


CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
SCHERTZ COMMUNITY · SERVICE · OPPORTUNITY			IH-35NEX WATER RELOCATION PROJECT		
halff TBPELS FIRM REGISTRATION #312			WATER PROJECT LAYOUT		
Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2346
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
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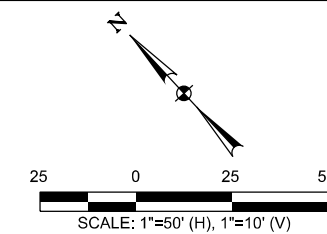
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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX WATER RELOCATION PROJECT		
 <small>TBPELS FIRM REGISTRATION #312</small>			WATER PROJECT LAYOUT		
 <small>© 2021</small>					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2347
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



LEGEND		
EXISTING		PROPOSED
GAS LINE		NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM		UG TELE
WATER LINE		
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE		8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

- NOTES:
- CONTRACTOR TO FIELD VERIFY ALL EXISTING/PROPOSED UTILITIES PRIOR TO CONSTRUCTION.
 - PROPOSED ASPHALT REPAIR FOR UTILITY WORK WILL BE COMPLETED WITH FINAL ROADWAY IMPROVEMENTS.
 - WATERLINE DEFLECTION SHALL OCCUR OVER MULTIPLE JOINTS SUCH THAT NO JOINT DEFLECTION IS IN EXCESS OF 80% OF THE MANUFACTURER'S ALLOWABLE DEFLECTION.
 - CONTRACTOR TO INSTALL WATER LINES AT MINIMUM DEPTH OF 60" BELOW PROPOSED/NATURAL.
 - PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST DIVISION AT (210) 619-1750 AND PUBLIC WORKS AT (210) 619-1800 AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS AND BE COORDINATED WITH CITY OF SCHERTZ CONSTRUCTION INSPECTION ANY TEMPORARY SERVICES; THIS IS AT NO ADDITIONAL COST TO THE CITY OF SCHERTZ OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SERVICES DURING CONSTRUCTION AND PROTECT ANY TEMP SERVICES (NO SEPARATE PAY ITEM).
 - PRIOR TO PLACING NEW MAINS IN SERVICE, CONTRACTOR SHALL CONFIRM ALL EXISTING WATER AND WASTEWATER SERVICES. ANY EXISTING SERVICES THAT REQUIRE RECONNECTION, BUT ARE NOT IDENTIFIED ON PLANS, SHALL BE RECONNECTED AND PAID FOR AT THE LINE ITEM BID PRICE FOR THE ASSOCIATED WORK.
 - CONTRACTOR TO EXPOSE EXISTING WL TO LIMITS OF JOINT RESTRAINT AND INSTALL RESTRAINT ACCORDINGLY.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE 701 SAN ANTONIO, TEXAS 78216. TPELS FIRM #F-312.

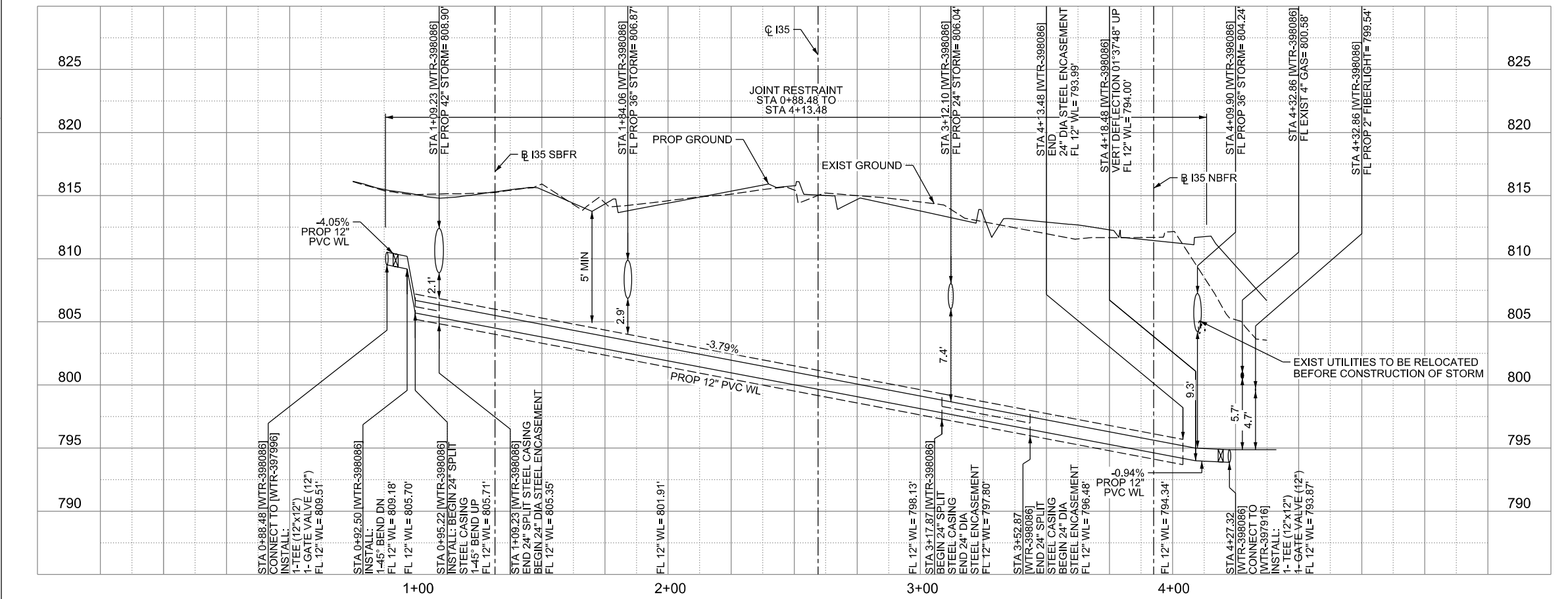
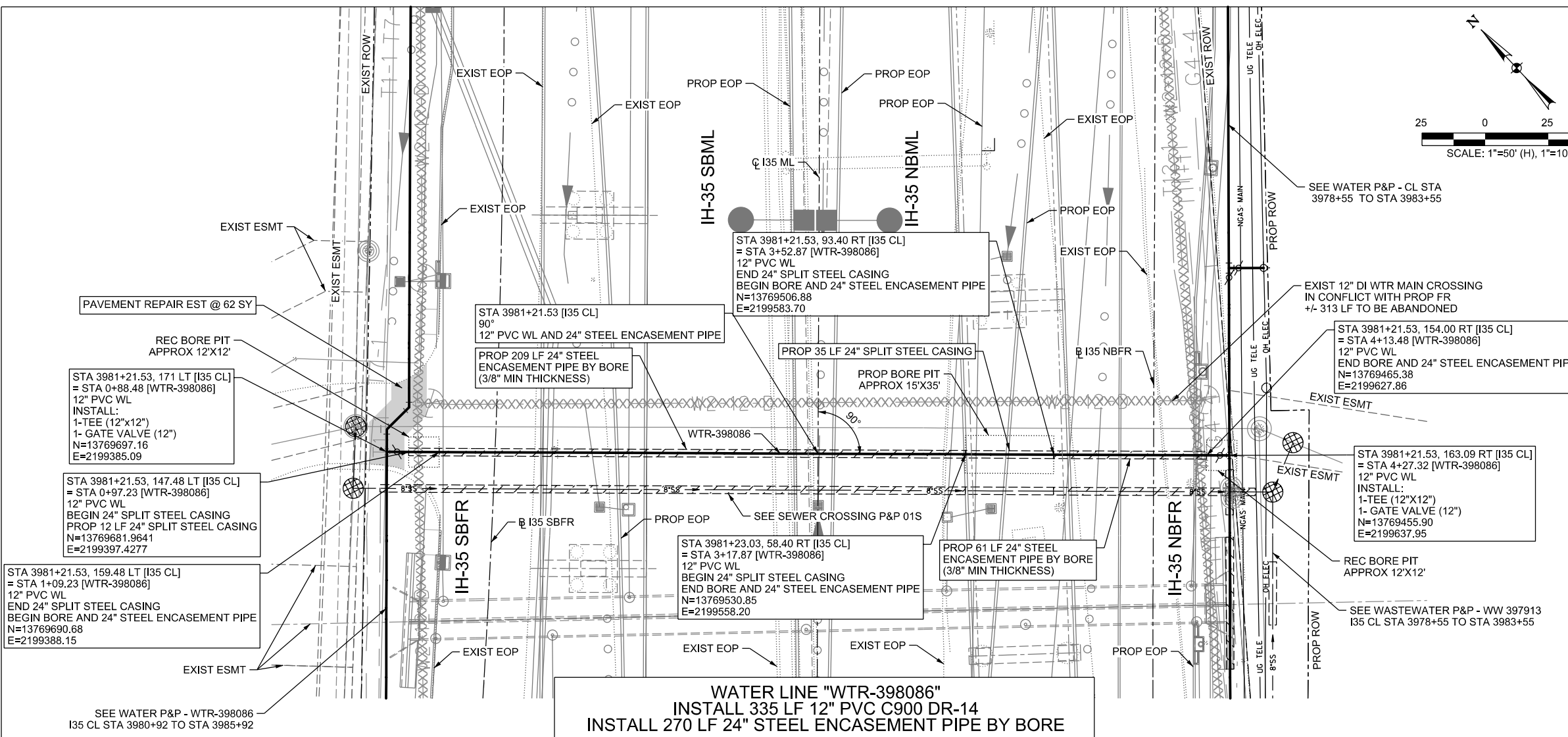
CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

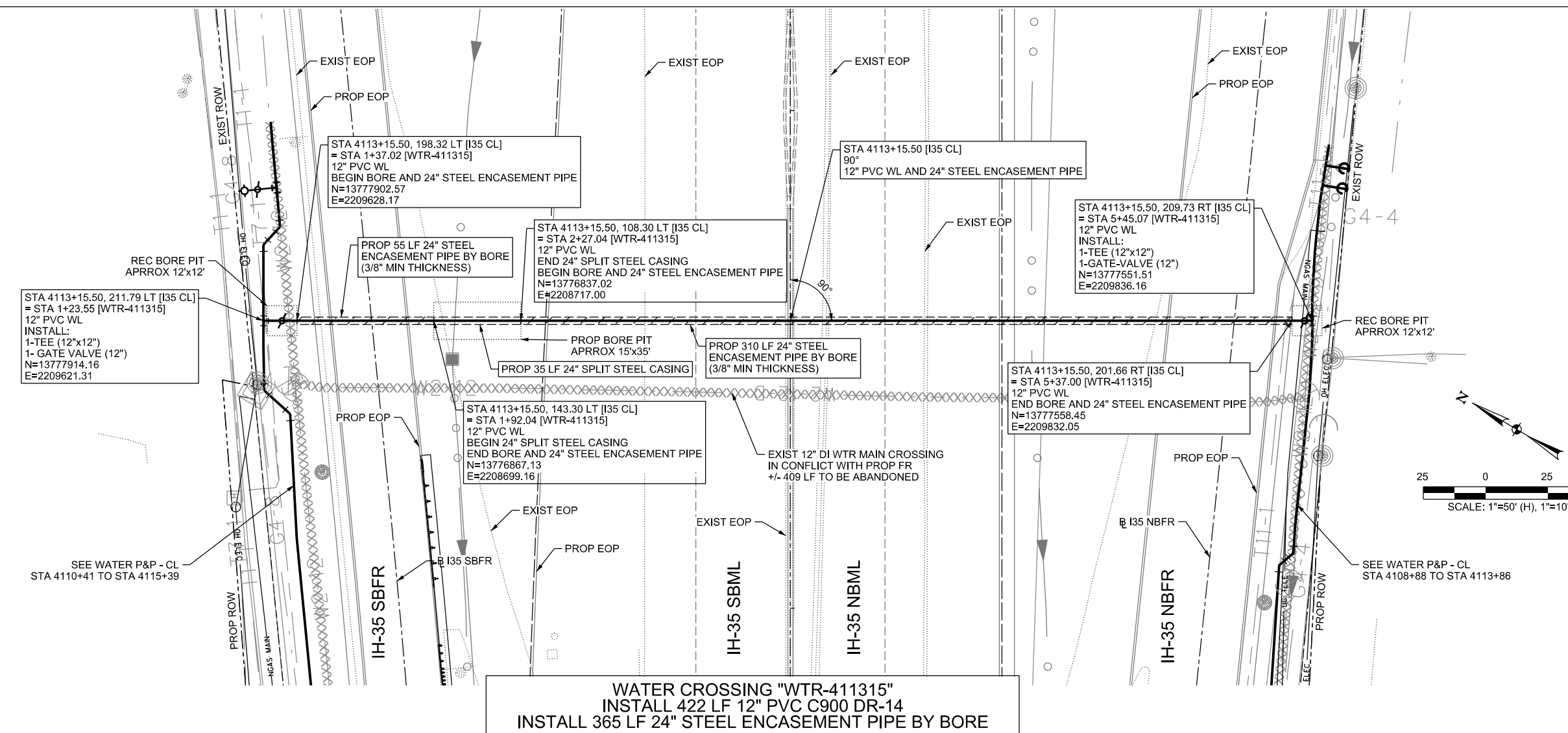
**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER CROSSING
P&P 01

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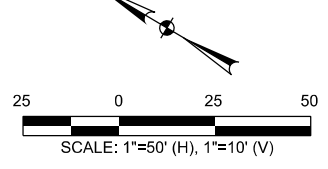
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CHECKED: PD, KA	NO.	TEXAS		2348
DRWN: AJ, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
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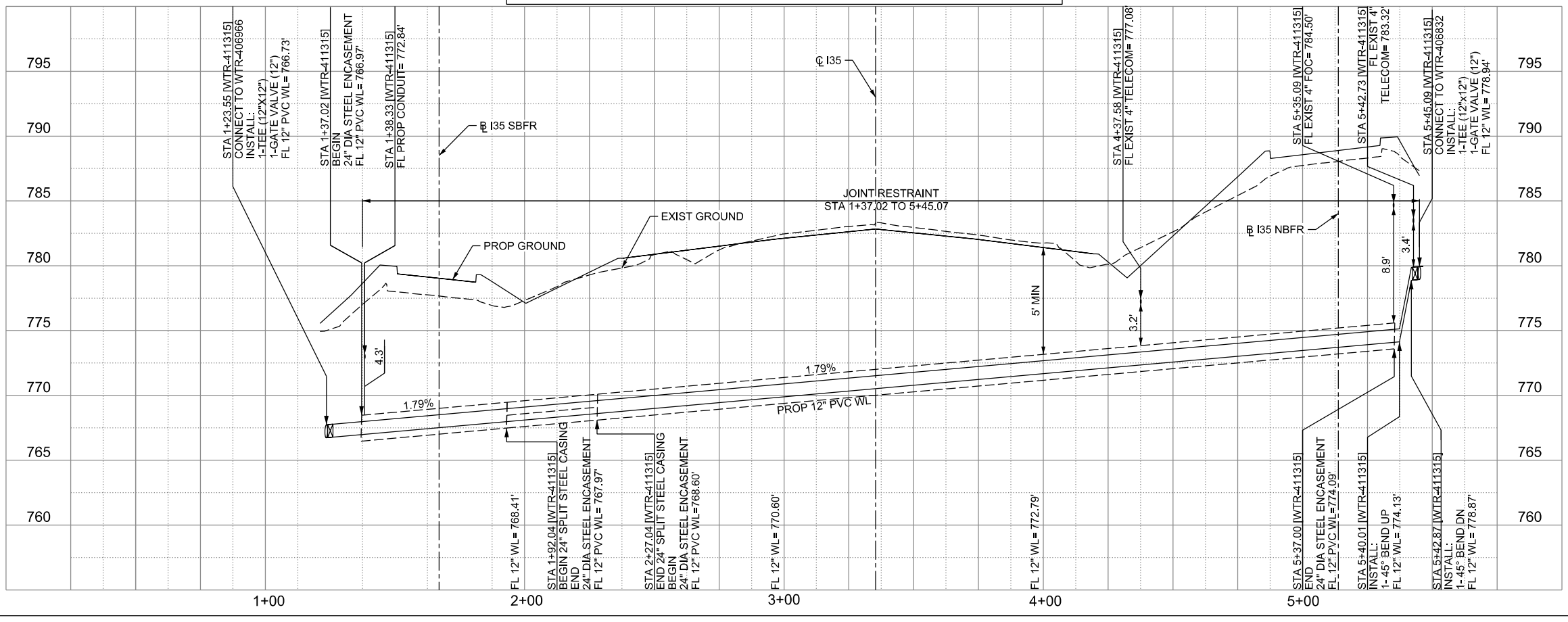


WATER CROSSING "WTR-411315"
 INSTALL 422 LF 12" PVC C900 DR-14
 INSTALL 365 LF 24" STEEL ENCASEMENT PIPE BY BORE

LEGEND		EXISTING	PROPOSED
GAS LINE		G4-4	NGAS MAIN
OVERHEAD ELECTRIC			OH ELEC
UNDERGROUND TELECOM		T8-01	UG TELE
WATER LINE		W2-12-D	
FORCE MAIN LINE			16" FM
SANITARY SEWER LINE		WW5-12-D	8"SS
SANITARY SEWER MH			
STORM SEWER			
FIRE HYDRANT ASSEMBLY			
WATER VALVE			
SERVICE RELAY			
RELOCATE METER			
PRESSURE REDUCING VALVE			
BLOW OFF VALVE			
STEEL ENCASEMENT			
LUMINAIRES			
TRAFFIC CONDUIT			
TRAFFIC LIGHT			
PROPOSED ELECTRICAL SERVICE			
GROUND BOX			

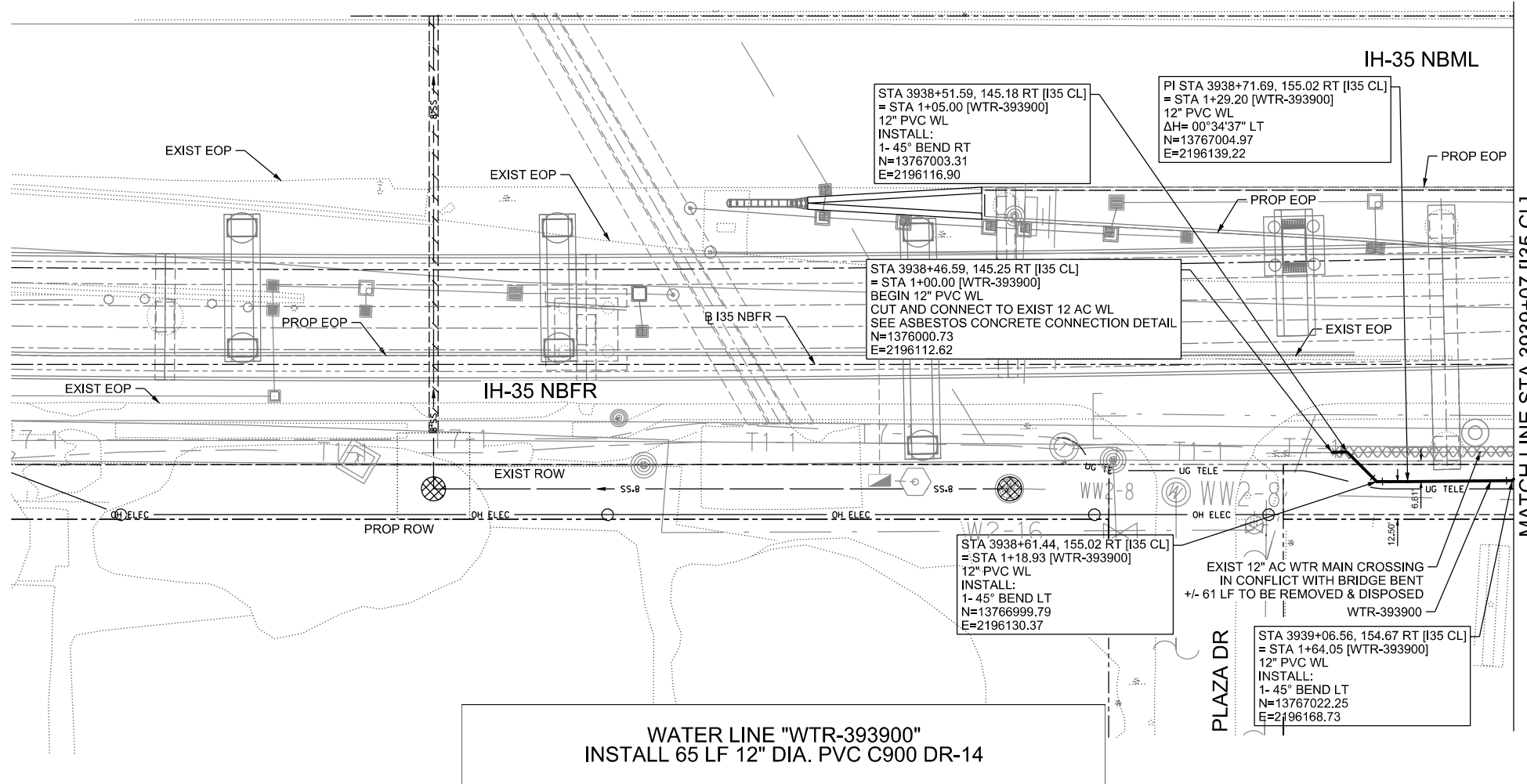


CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.



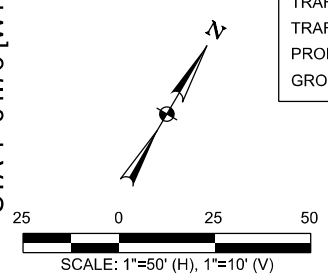
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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS				
	IH-35NEX WATER RELOCATION PROJECT			
	WATER CROSSING P&P 02			
Texas Department of Transportation © 2021				
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2349
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

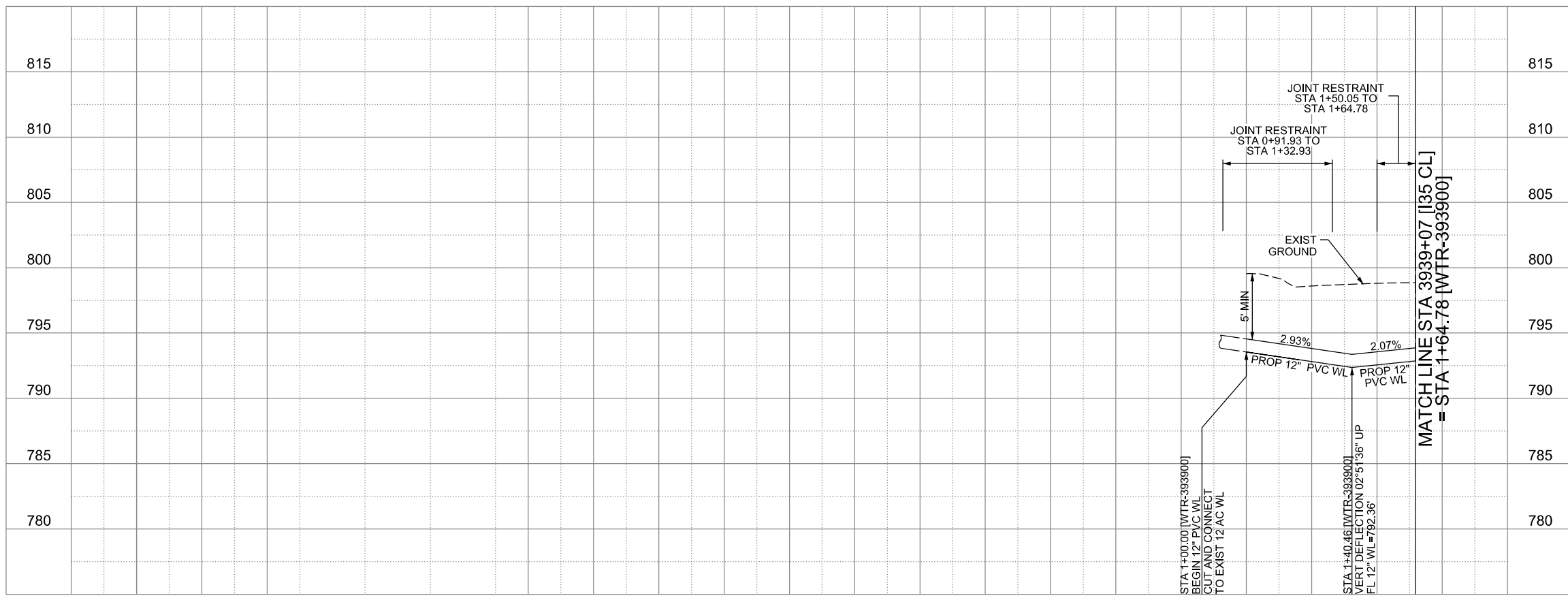


LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

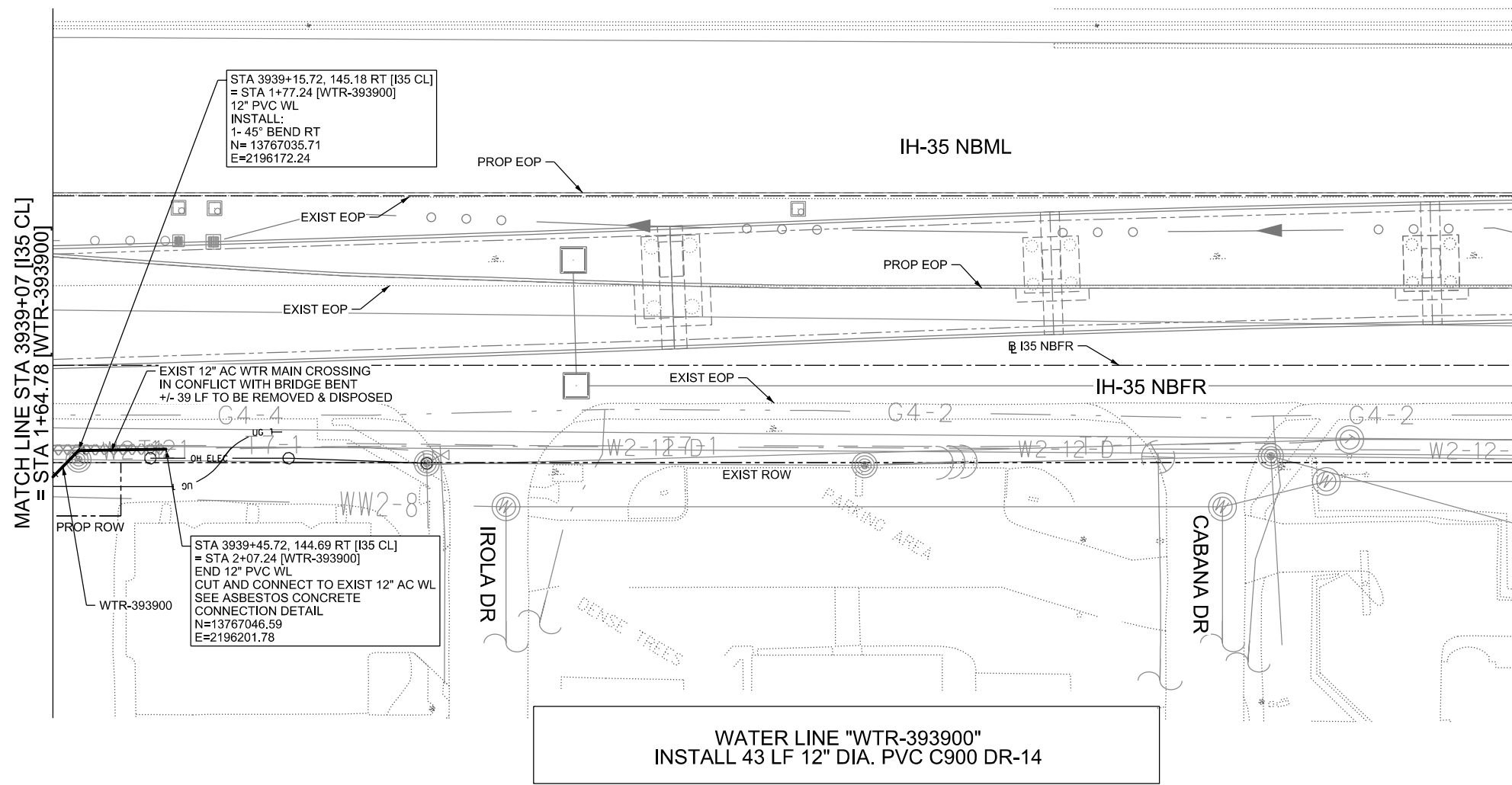
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TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 3934+07 TO STA 3939+07

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2350
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

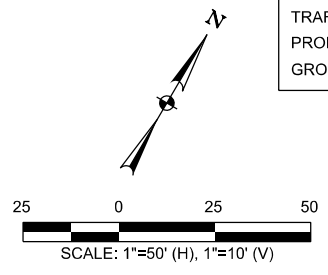


STA 3939+15.72, 145.18 RT [I35 CL]
 = STA 1+77.24 [WTR-393900]
 12" PVC WL
 INSTALL:
 1- 45° BEND RT
 N= 13767035.71
 E=2196172.24

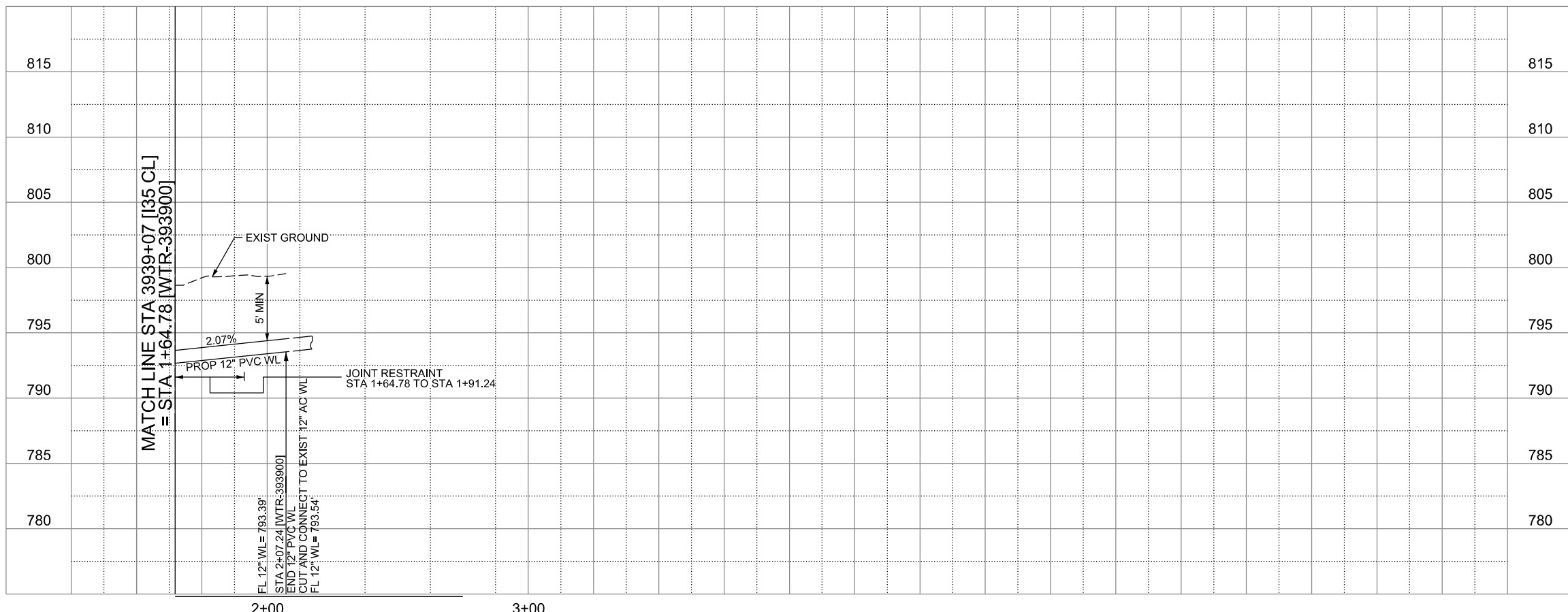
STA 3939+45.72, 144.69 RT [I35 CL]
 = STA 2+07.24 [WTR-393900]
 END 12" PVC WL
 CUT AND CONNECT TO EXIST 12" AC WL
 SEE ASBESTOS CONCRETE
 CONNECTION DETAIL
 N=13767046.59
 E=2196201.78

**WATER LINE "WTR-393900"
 INSTALL 43 LF 12" DIA. PVC C900 DR-14**

LEGEND		EXISTING	PROPOSED
GAS LINE	— G4-4 —	— NGAS MAIN —	
OVERHEAD ELECTRIC	— OH ELEC —	— OH ELEC —	
UNDERGROUND TELECOM	— T8-01 —	— UG TELE —	
WATER LINE	— W2-12-0 —	← 16" FM	
FORCE MAIN LINE	— FM —	← 8" SS	
SANITARY SEWER LINE	— WW5-12-0 —	← 8" SS	
SANITARY SEWER MH	⊙	⊙	
STORM SEWER	⊙	⊙	
FIRE HYDRANT ASSEMBLY	⊙	⊙	
WATER VALVE	⊙	⊙	
SERVICE RELAY	⊙	⊙	
RELOCATE METER	⊙	⊙	
PRESSURE REDUCING VALVE	⊙	⊙	
BLOW OFF VALVE	⊙	⊙	
STEEL ENCASUREMENT	⊙	⊙	
LUMINAIRES	⊙	⊙	
TRAFFIC CONDUIT	⊙	⊙	
TRAFFIC LIGHT	⊙	⊙	
PROPOSED ELECTRICAL SERVICE	⊙	⊙	
GROUND BOX	⊙	⊙	

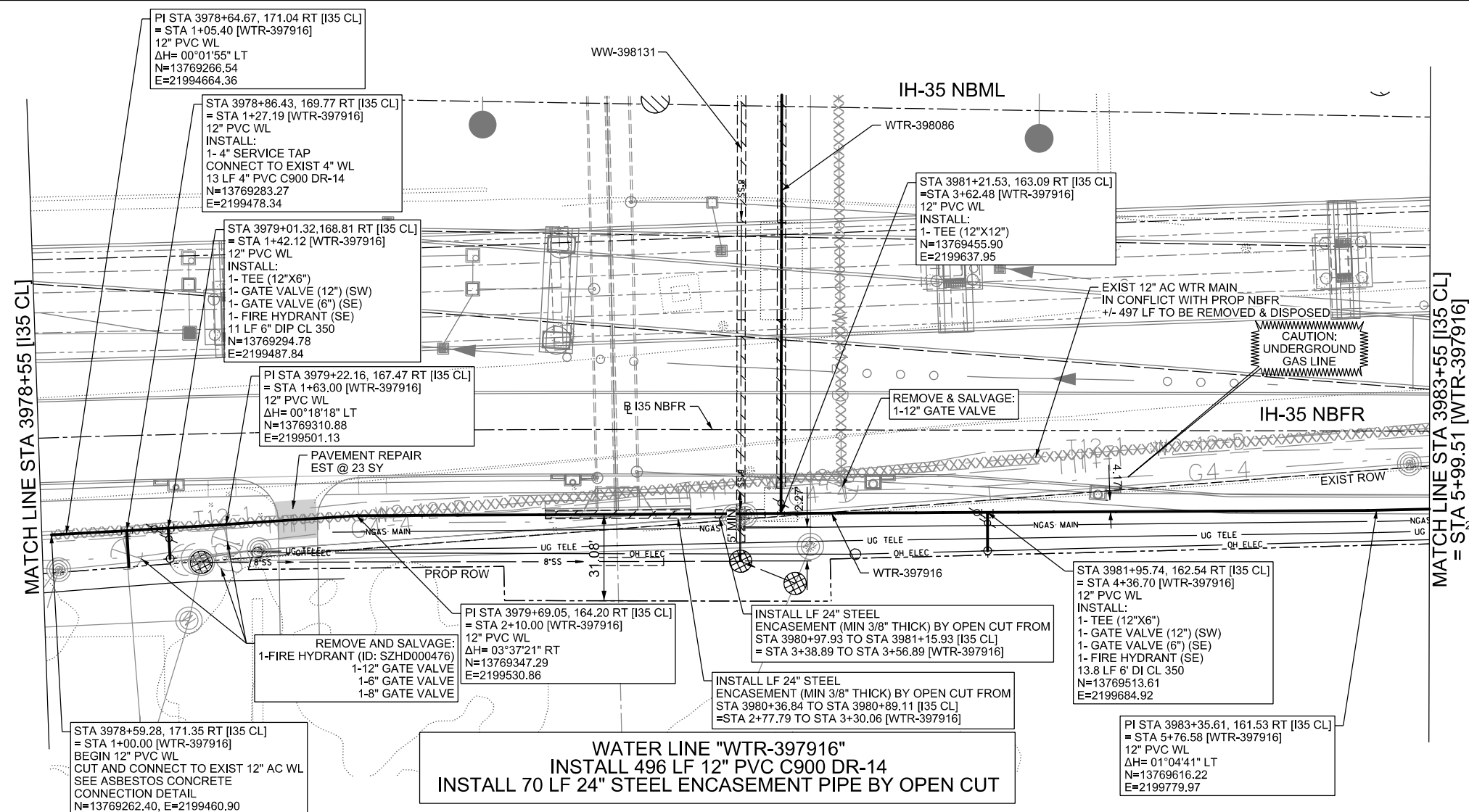


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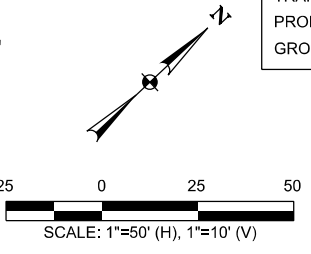
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	IH-35NEX WATER RELOCATION PROJECT			
	WATER P&P - CL STA 3939+07 TO STA 3944+07			
Texas Department of Transportation © 2021				
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2351
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



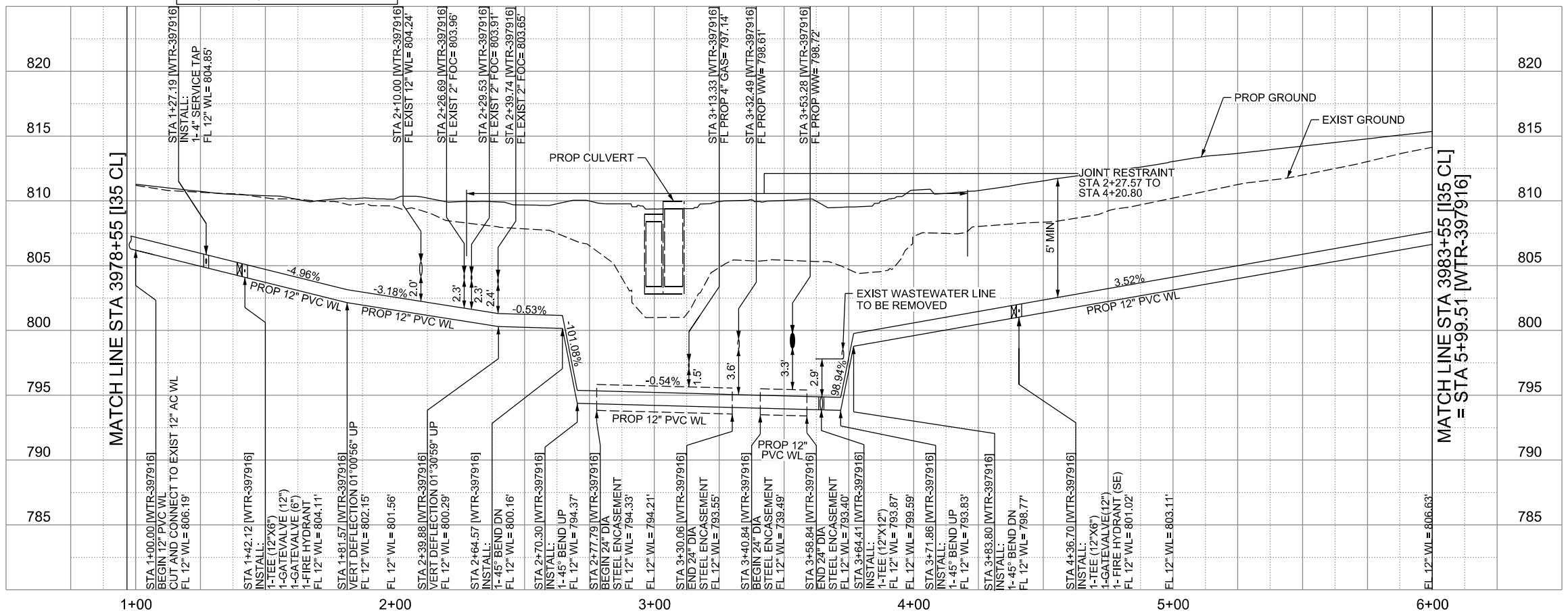
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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WATER LINE "WTR-397916"
 INSTALL 496 LF 12" PVC C900 DR-14
 INSTALL 70 LF 24" STEEL ENCASUREMENT PIPE BY OPEN CUT



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 ENGINEERING AND PUBLIC WORKS

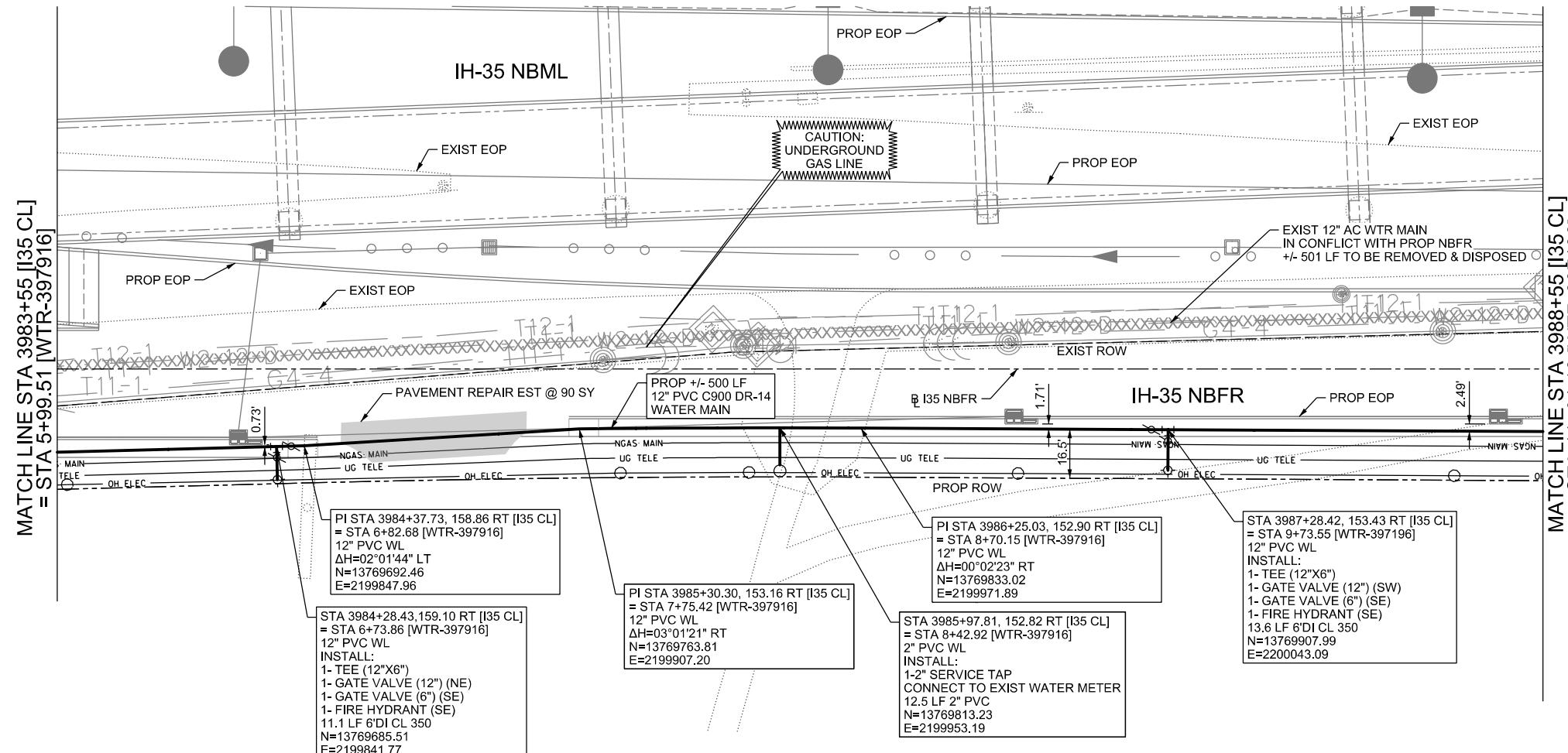
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IH-35NEX WATER RELOCATION PROJECT
 WATER P&P - CL
 STA 3978+55 TO STA 3983+55

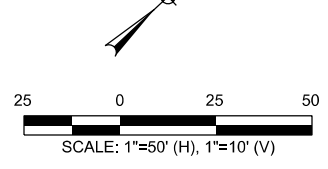
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2352
DRWN: AT, JG, AL, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



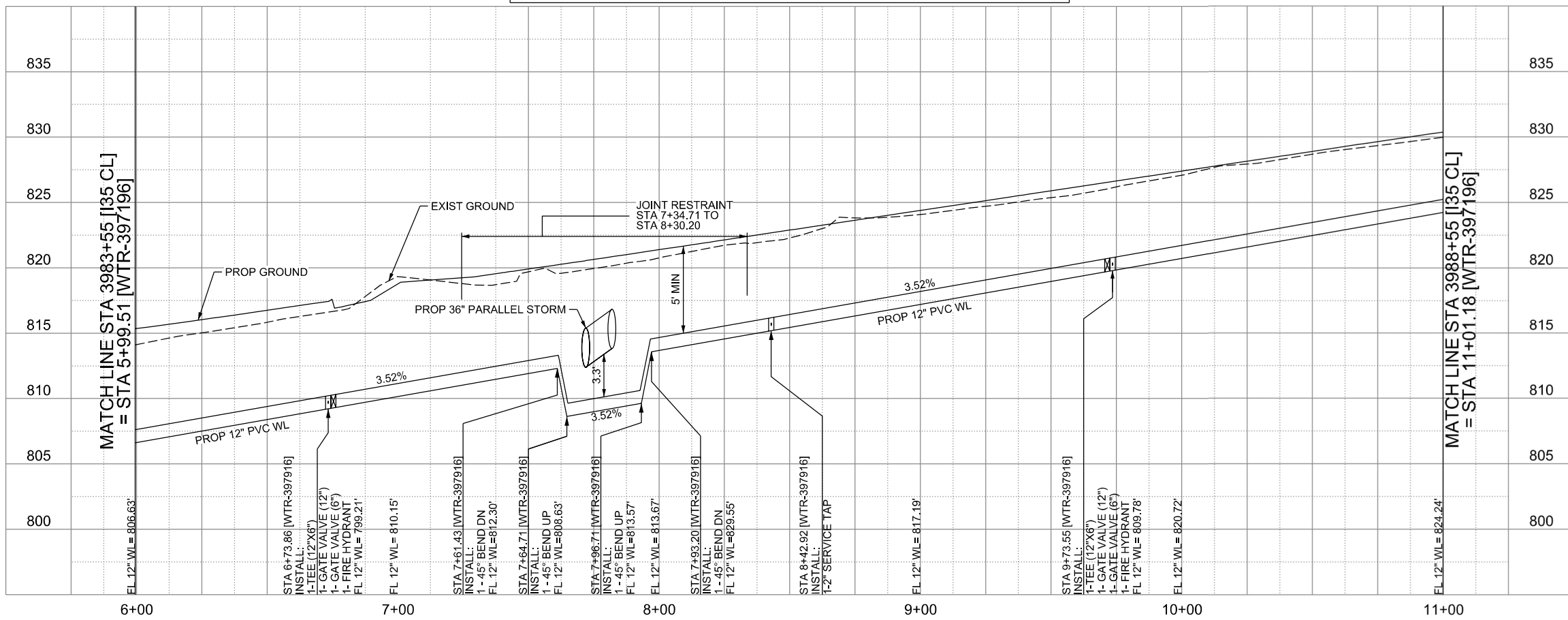
LEGEND

EXISTING	PROPOSED
GAS LINE	NGAS MAIN
OVERHEAD ELECTRIC	OH ELEC
UNDERGROUND TELECOM	UG TELE
WATER LINE	16" FM
FORCE MAIN LINE	8" SS
SANITARY SEWER LINE	
SANITARY SEWER MH	
STORM SEWER	
FIRE HYDRANT ASSEMBLY	
WATER VALVE	
SERVICE RELAY	
RELOCATE METER	
PRESSURE REDUCING VALVE	
BLOW OFF VALVE	
STEEL ENCASUREMENT	
LUMINAIRES	
TRAFFIC CONDUIT	
TRAFFIC LIGHT	
PROPOSED ELECTRICAL SERVICE	
GROUND BOX	



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**WATER LINE "WTR-397916"
INSTALL 501 LF 12" DIA. PVC C900 DR-14**



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ENGINEERING AND PUBLIC WORKS

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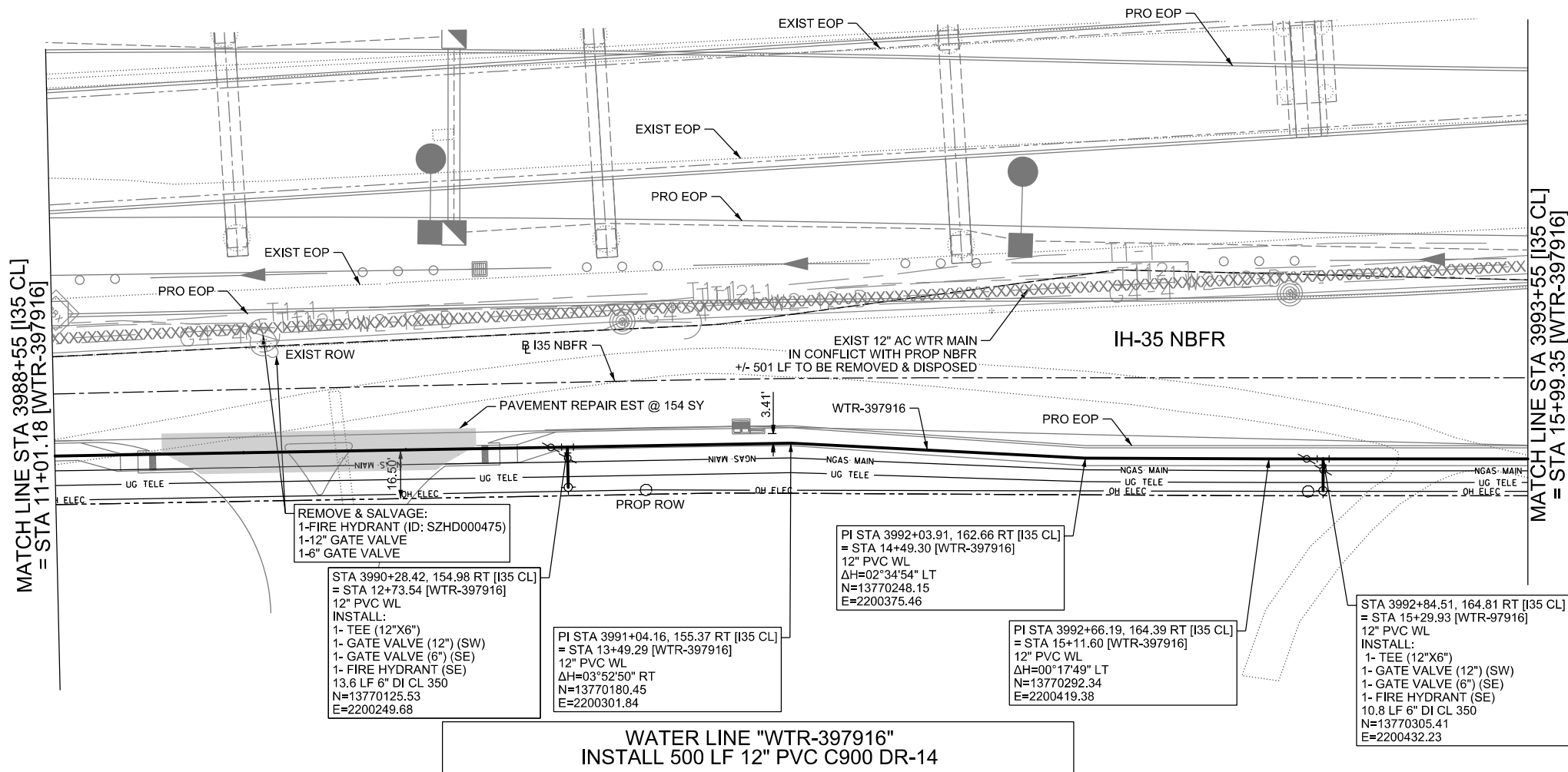
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TBPELS FIRM REGISTRATION #312

**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER P&P - CL
STA 3983+55 TO
STA 3988+55

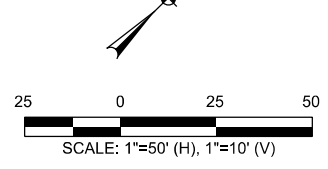
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DSCN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2353
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



LEGEND

	EXISTING	PROPOSED
GAS LINE	— C4-4 —	— NGAS MAIN —
OVERHEAD ELECTRIC	—	— OH ELEC —
UNDERGROUND TELECOM	— T8-01 —	— UG TELE —
WATER LINE	— W2-12-0 —	← 16" FM
FORCE MAIN LINE	—	← 8" SS
SANITARY SEWER LINE	— WW5-12-0 —	←
SANITARY SEWER MH	⊙	⊙
STORM SEWER	⊙	⊙
FIRE HYDRANT ASSEMBLY	⊙	⊙
WATER VALVE	⊙	⊙
SERVICE RELAY	⊙	⊙
RELOCATE METER	⊙	⊙
PRESSURE REDUCING VALVE	⊙	⊙
BLOW OFF VALVE	⊙	⊙
STEEL ENCASUREMENT	⊙	⊙
LUMINAIRES	⊙	⊙
TRAFFIC CONDUIT	⊙	⊙
TRAFFIC LIGHT	⊙	⊙
PROPOSED ELECTRICAL SERVICE	⊙	⊙
GROUND BOX	⊙	⊙



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REMOVE & SALVAGE:
1-FIRE HYDRANT (ID: SZHD000475)
1-12" GATE VALVE
1-6" GATE VALVE

STA 3990+28.42, 154.98 RT [I35 CL]
= STA 12+73.54 [WTR-397916]
12" PVC WL
INSTALL:
1- TEE (12"x6")
1- GATE VALVE (12") (SW)
1- GATE VALVE (6") (SE)
1- FIRE HYDRANT (SE)
13.6 LF 6" DI CL 350
N=13770125.53
E=2200249.68

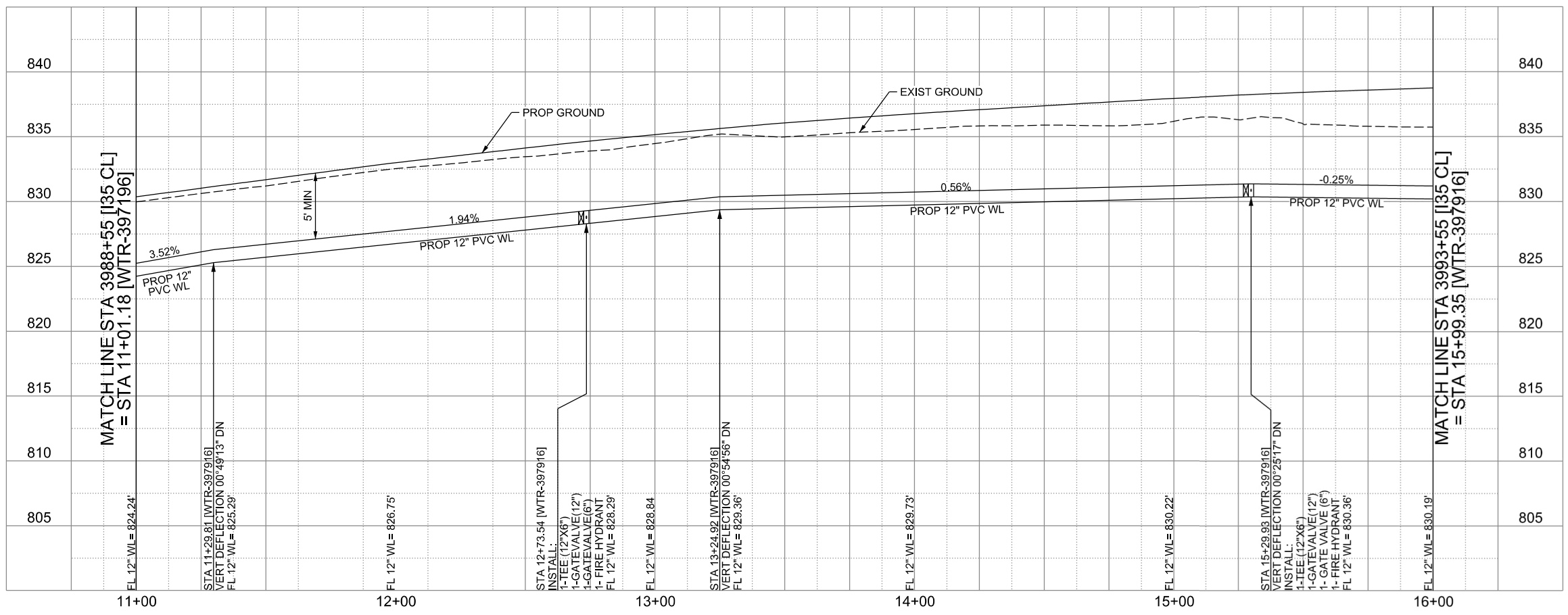
PI STA 3991+04.16, 155.37 RT [I35 CL]
= STA 13+49.29 [WTR-397916]
12" PVC WL
ΔH=03°52'50" RT
N=13770180.45
E=2200301.84

PI STA 3992+03.91, 162.66 RT [I35 CL]
= STA 14+49.30 [WTR-397916]
12" PVC WL
ΔH=02°34'54" LT
N=13770248.15
E=2200375.46

PI STA 3992+66.19, 164.39 RT [I35 CL]
= STA 15+11.60 [WTR-397916]
12" PVC WL
ΔH=00°17'49" LT
N=13770292.34
E=2200419.38

STA 3992+84.51, 164.81 RT [I35 CL]
= STA 15+29.93 [WTR-397916]
12" PVC WL
INSTALL:
1- TEE (12"x6")
1- GATE VALVE (12") (SW)
1- GATE VALVE (6") (SE)
1- FIRE HYDRANT (SE)
10.8 LF 6" DI CL 350
N=13770305.41
E=2200432.23

**WATER LINE "WTR-397916"
INSTALL 500 LF 12" PVC C900 DR-14**



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ENGINEERING AND PUBLIC WORKS

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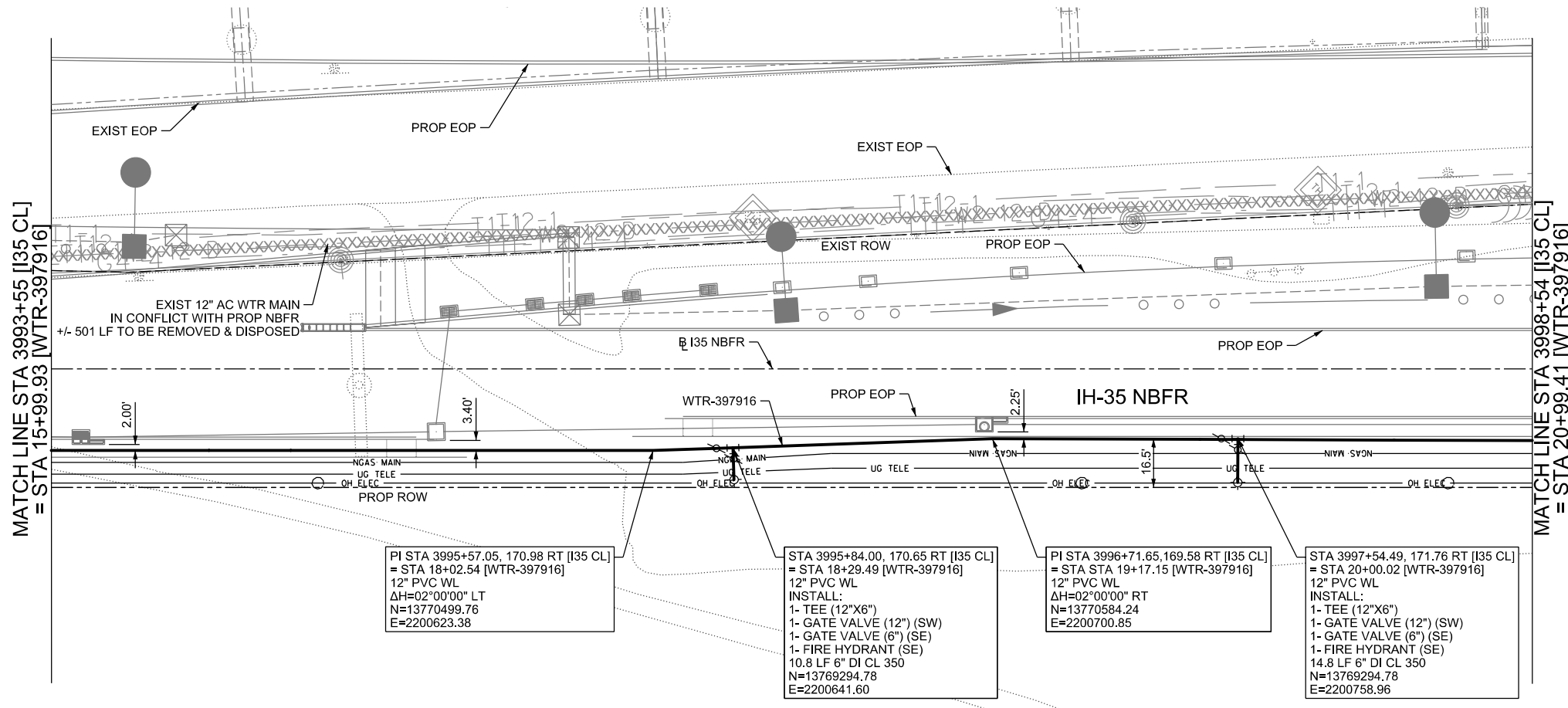
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TBPELS FIRM REGISTRATION #312

**ih-35NEX
WATER
RELOCATION
PROJECT**

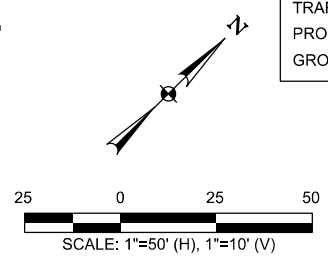
WATER P&P - CL
STA 3988+55 TO
STA 3993+55

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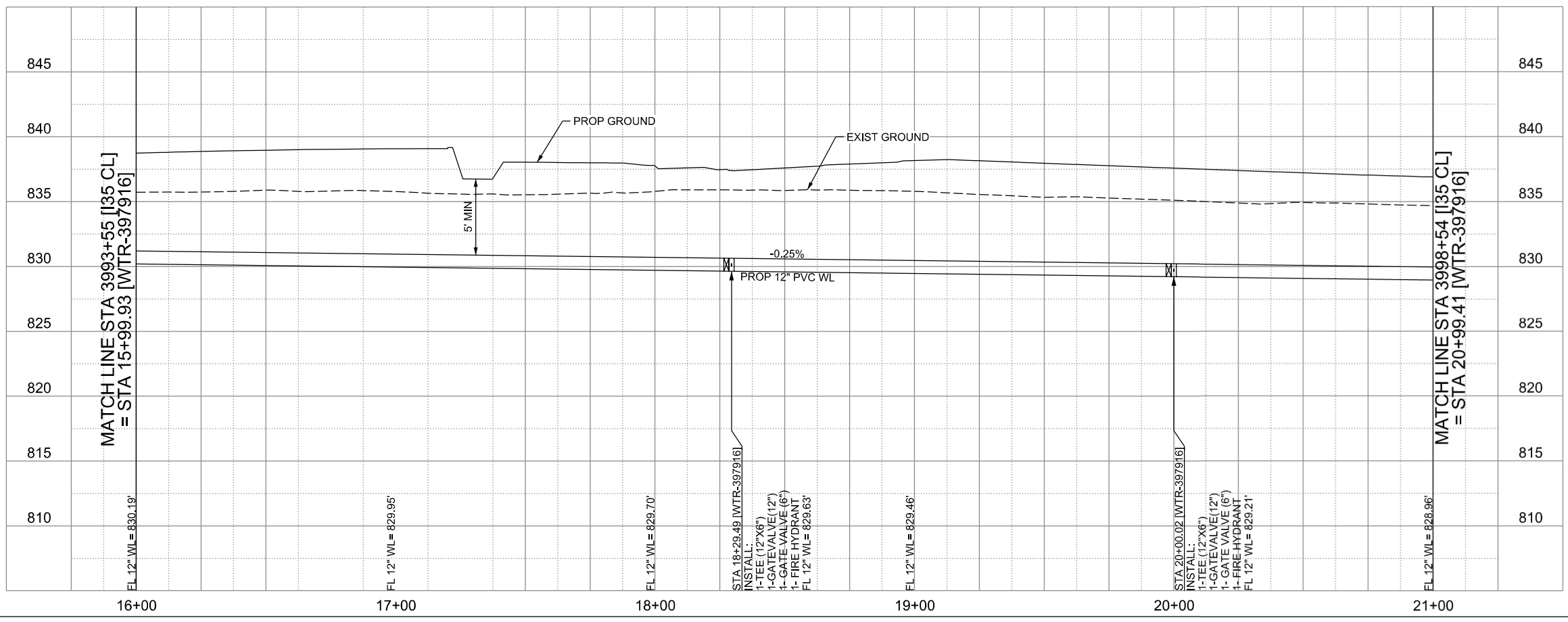
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2354
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



LEGEND		EXISTING	PROPOSED
GAS LINE		C4-4	NGAS MAIN
OVERHEAD ELECTRIC			OH ELEC
UNDERGROUND TELECOM		T8-01	UG TELE
WATER LINE		W2-12-0	
FORCE MAIN LINE			16" FM
SANITARY SEWER LINE		WW5-12-0	8" SS
SANITARY SEWER MH			
STORM SEWER			
FIRE HYDRANT ASSEMBLY			
WATER VALVE			
SERVICE RELAY			
RELOCATE METER			
PRESSURE REDUCING VALVE			
BLOW OFF VALVE			
STEEL ENCASUREMENT			
LUMINAIRES			
TRAFFIC CONDUIT			
TRAFFIC LIGHT			
PROPOSED ELECTRICAL SERVICE			
GROUND BOX			



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 ENGINEERING AND PUBLIC WORKS

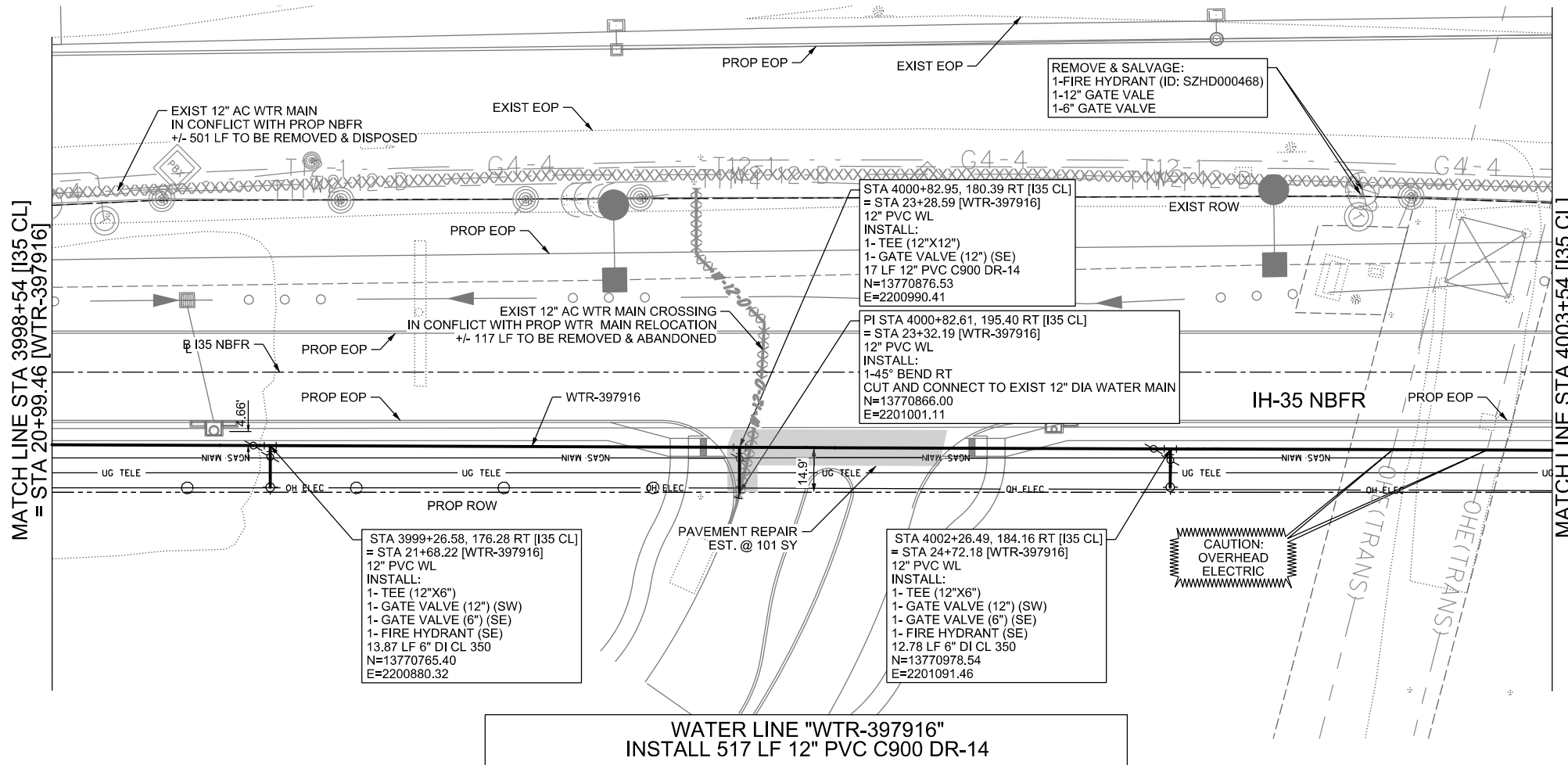
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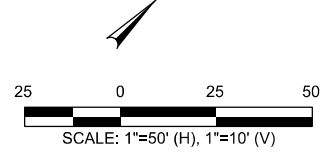
IH-35NEX WATER RELOCATION PROJECT
 WATER P&P - CL
 STA 3993+55 TO STA 3998+54

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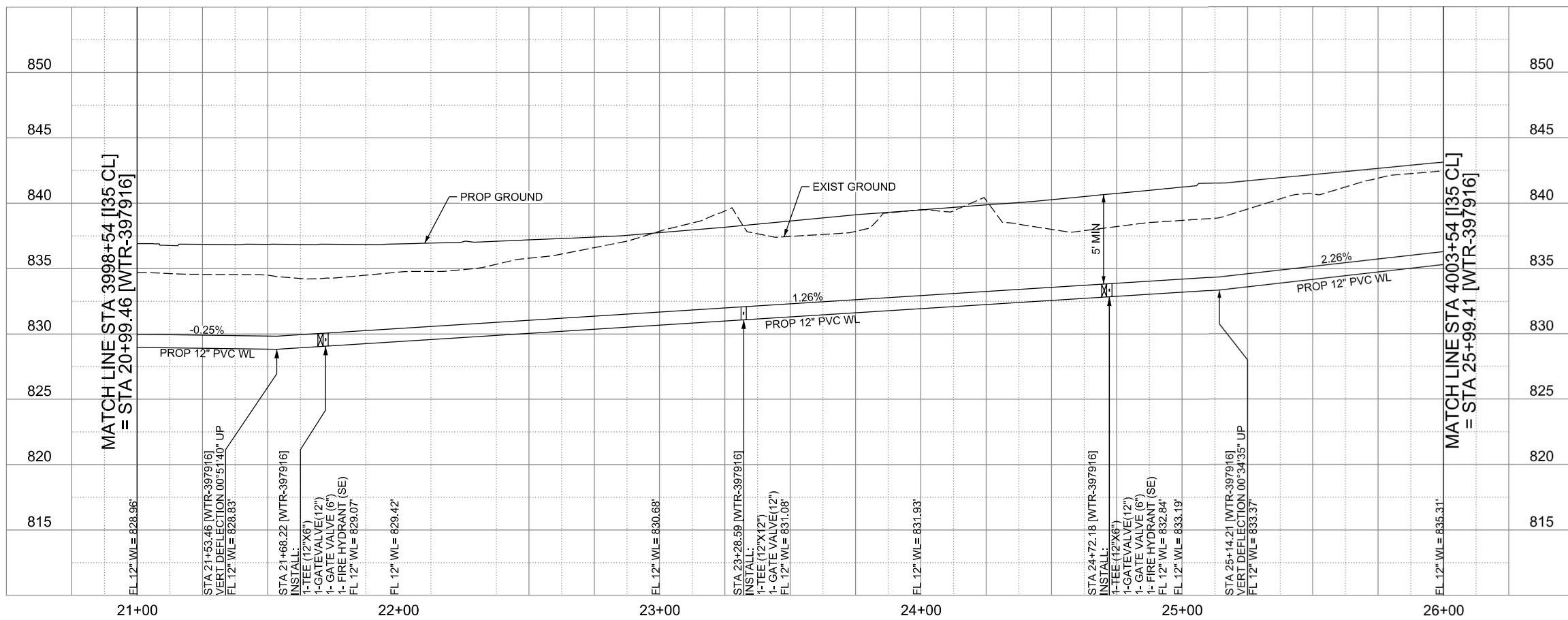
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2355
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



LEGEND		EXISTING	PROPOSED
GAS LINE		G4-4	NGAS MAIN
OVERHEAD ELECTRIC			OH ELEC
UNDERGROUND TELECOM		T8-01	UG TELE
WATER LINE		W2-12-0	
FORCE MAIN LINE			16" FM
SANITARY SEWER LINE		WW5-12-0	8" SS
SANITARY SEWER MH			
STORM SEWER			
FIRE HYDRANT ASSEMBLY			
WATER VALVE			
SERVICE RELAY			
RELOCATE METER			
PRESSURE REDUCING VALVE			
BLOW OFF VALVE			
STEEL ENCASUREMENT			
LUMINAIRES			
TRAFFIC CONDUIT			
TRAFFIC LIGHT			
PROPOSED ELECTRICAL SERVICE			
GROUND BOX			



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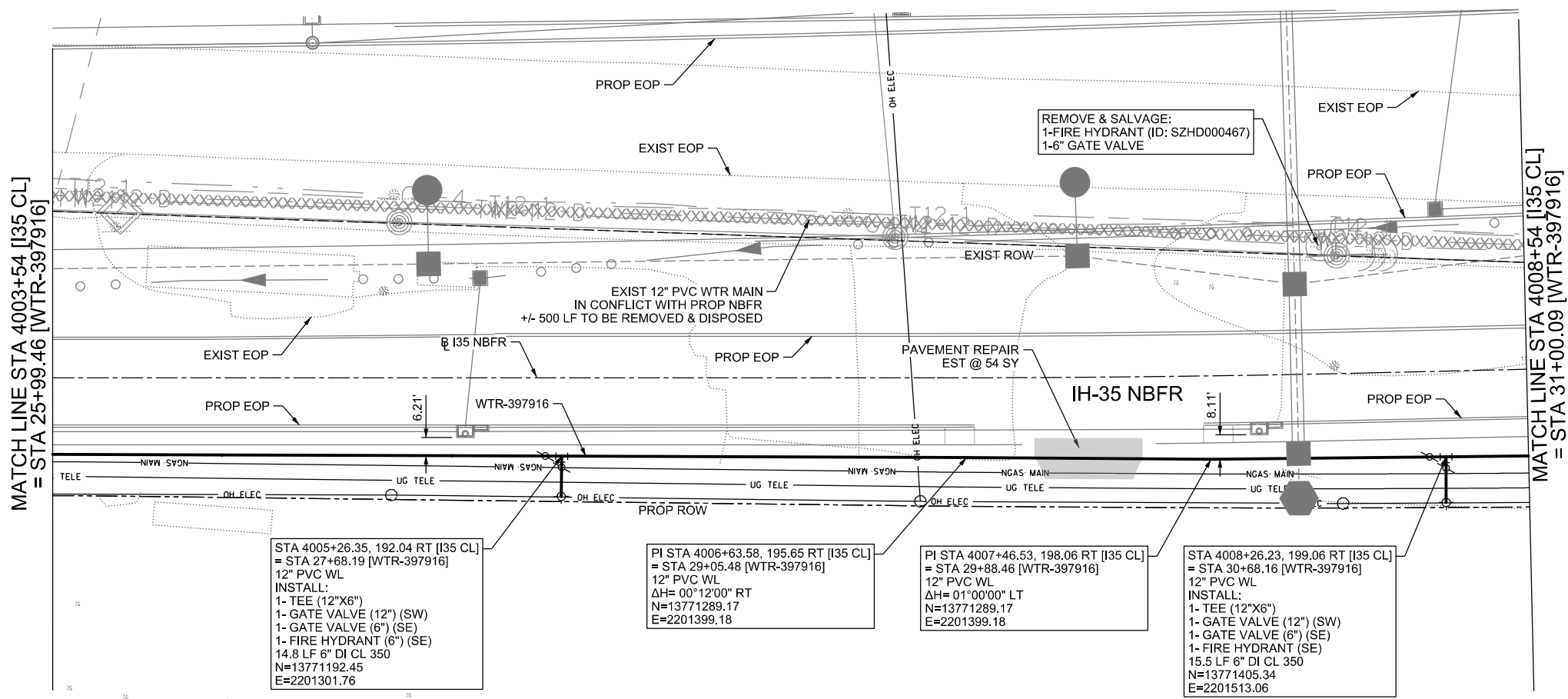
halff
TBPELS FIRM REGISTRATION #312

**IH-35NEX
WATER
RELOCATION
PROJECT**

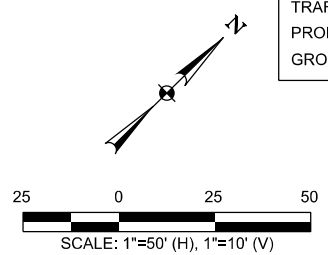
WATER P&P - CL
STA 3998+54 TO
STA 4003+54

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2356
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC

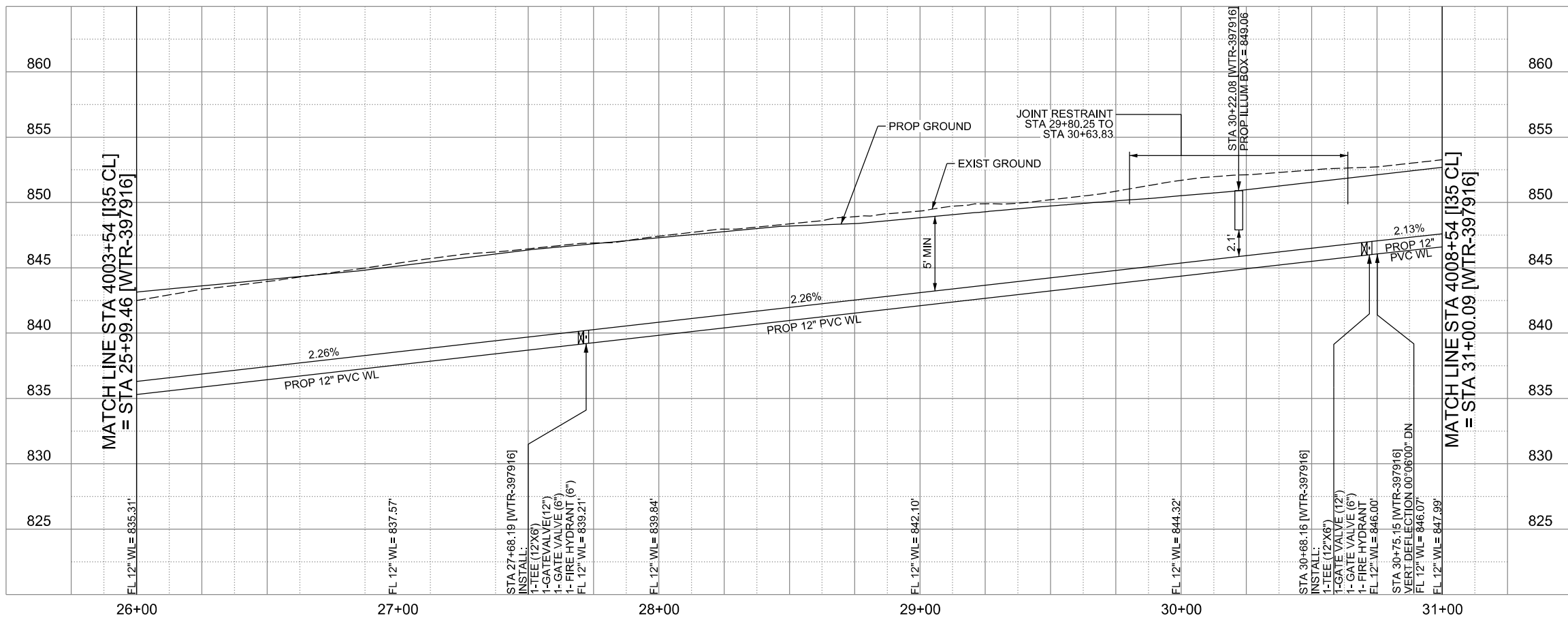


LEGEND		
	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	16" FM
FORCE MAIN LINE		8" SS
SANITARY SEWER LINE	WW5-12-D	
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



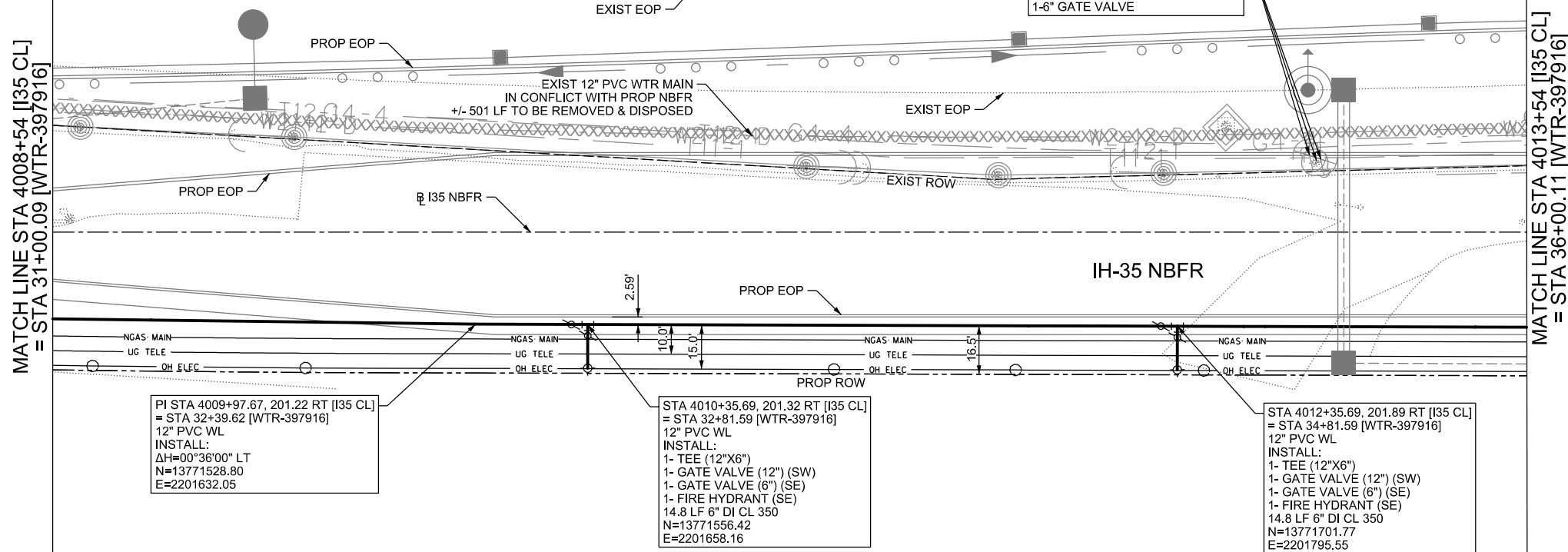
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

WATER LINE "WTR-397916"
INSTALL 501 LF 12" PVC C900 DR-14



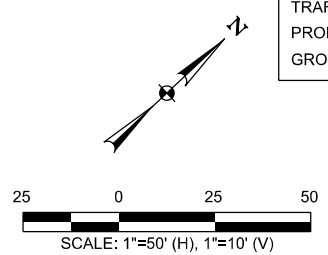
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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS		IH-35NEX WATER RELOCATION PROJECT	
SCHERTZ COMMUNITY • SERVICE • OPPORTUNITY		WATER P&P - CL STA 4003+54 TO STA 4008+54	
halff TBPELS FIRM REGISTRATION #312		Texas Department of Transportation © 2021	
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.
CHECKED: PD, KA	NO.	TEXAS	2357
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO. SECTION NO. JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016 05 111, ETC



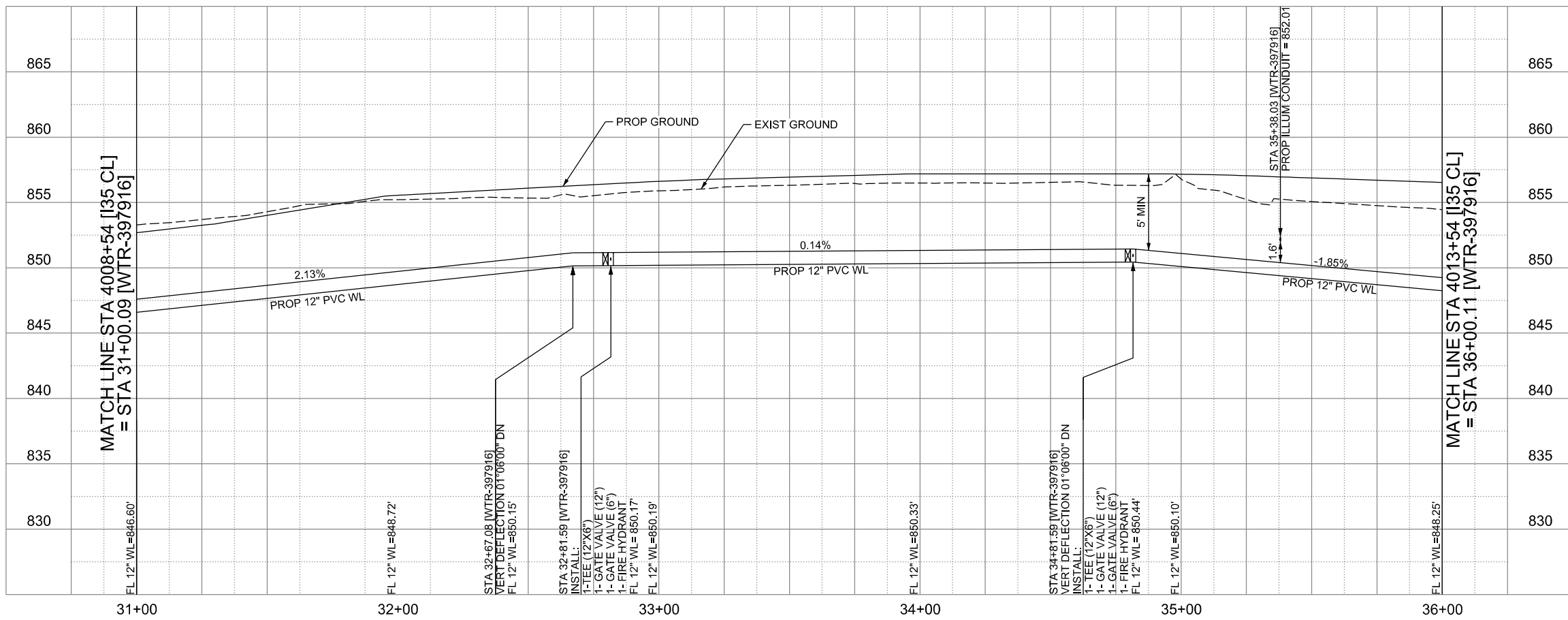
LEGEND

	EXISTING	PROPOSED
GAS LINE	— G4-4 —	— NGAS MAIN —
OVERHEAD ELECTRIC	—	— OH ELEC —
UNDERGROUND TELECOM	— T8-01 —	— UG TELE —
WATER LINE	— W2-12-D —	← 16" FM
FORCE MAIN LINE	—	← 8" SS
SANITARY SEWER LINE	— WW5-12-D —	←
SANITARY SEWER MH	⊙	⊙
STORM SEWER	⊙	⊙
FIRE HYDRANT ASSEMBLY	⊙	⊙
WATER VALVE	⊙	⊙
SERVICE RELAY	⊙	⊙
RELOCATE METER	⊙	⊙
PRESSURE REDUCING VALVE	⊙	⊙
BLOW OFF VALVE	⊙	⊙
STEEL ENCASMENT	⊙	⊙
LUMINAIRES	⊙	⊙
TRAFFIC CONDUIT	⊙	⊙
TRAFFIC LIGHT	⊙	⊙
PROPOSED ELECTRICAL SERVICE	⊙	⊙
GROUND BOX	⊙	⊙



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

**WATER LINE "WTR-397916"
INSTALL 500 LF 12" PVC C900 DR-14**



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

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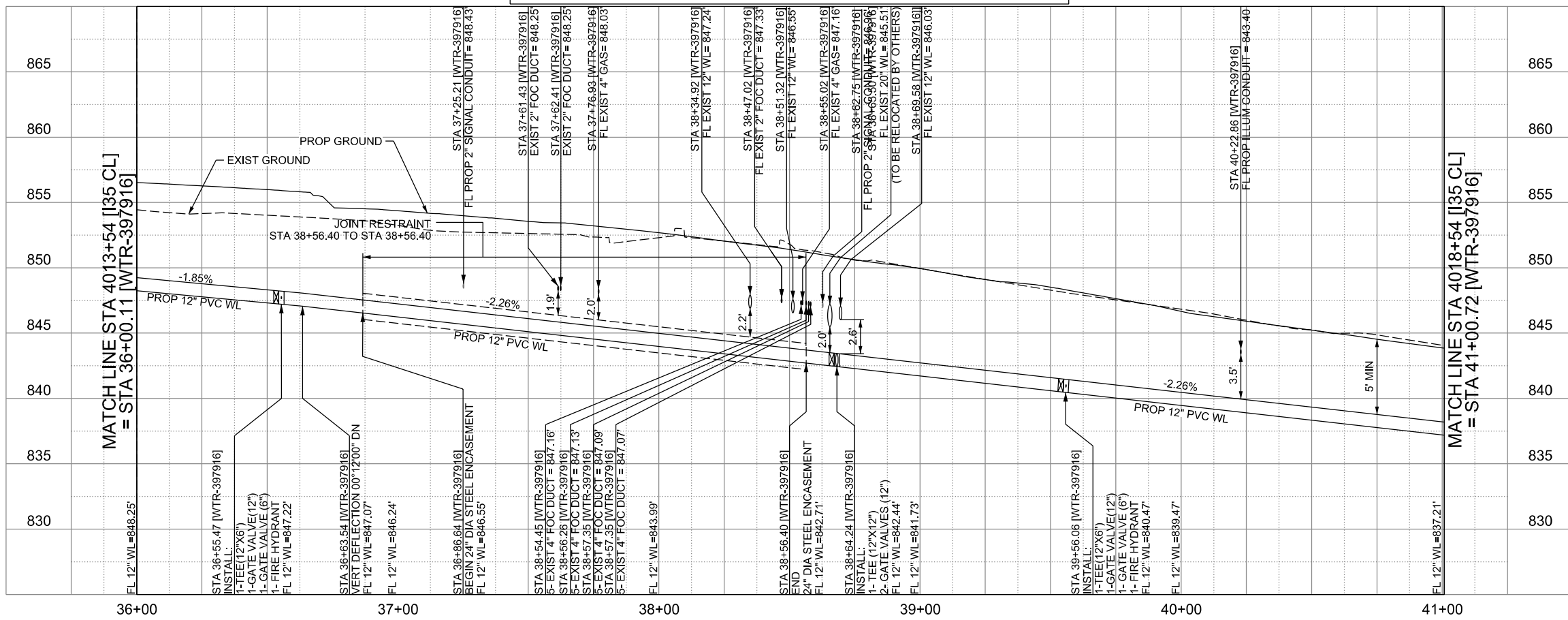
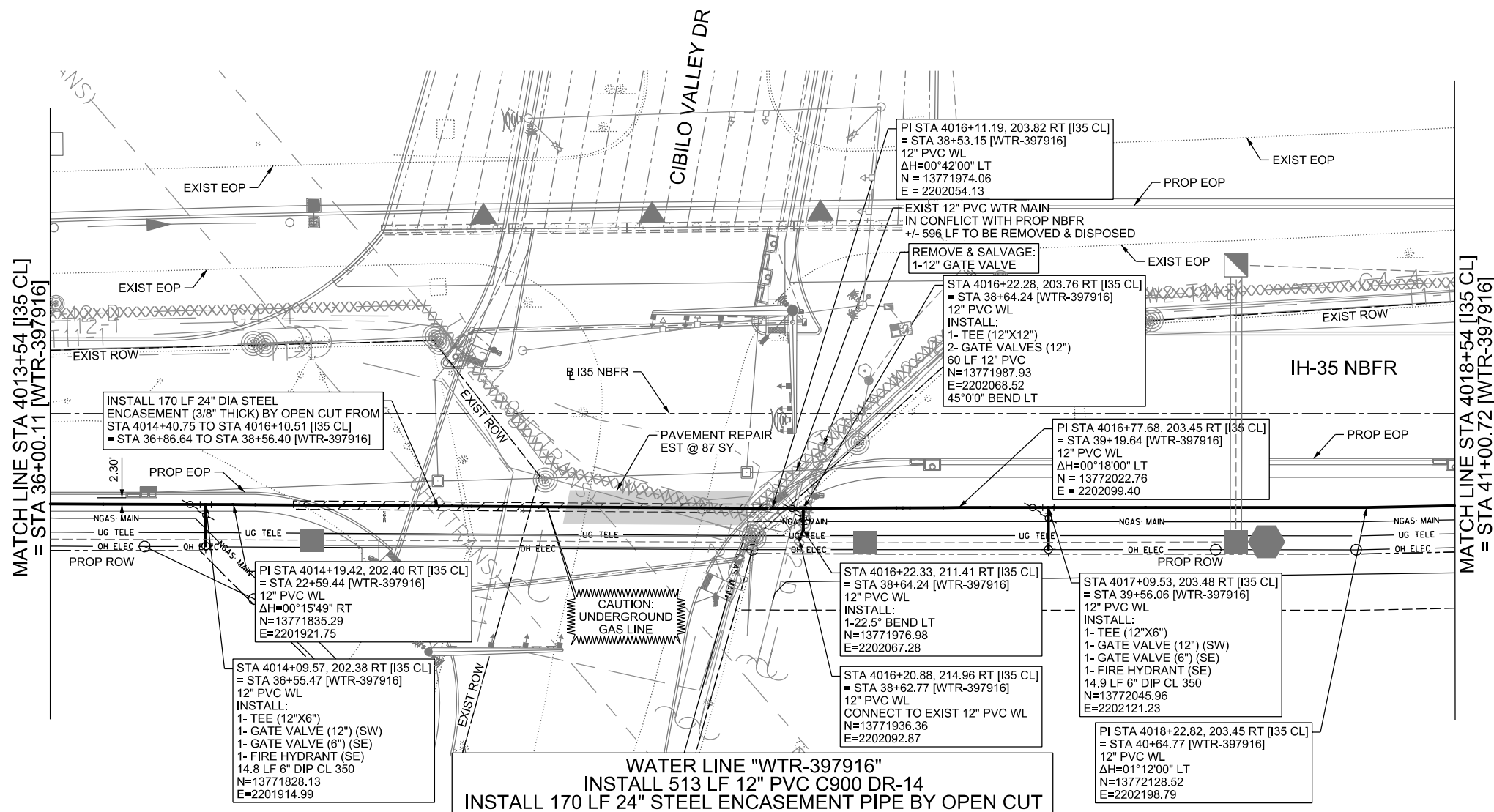
halff
TBPELS FIRM REGISTRATION #312

**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER P&P - CL
STA 4008+54 TO
STA 4013+54

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2358
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



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CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

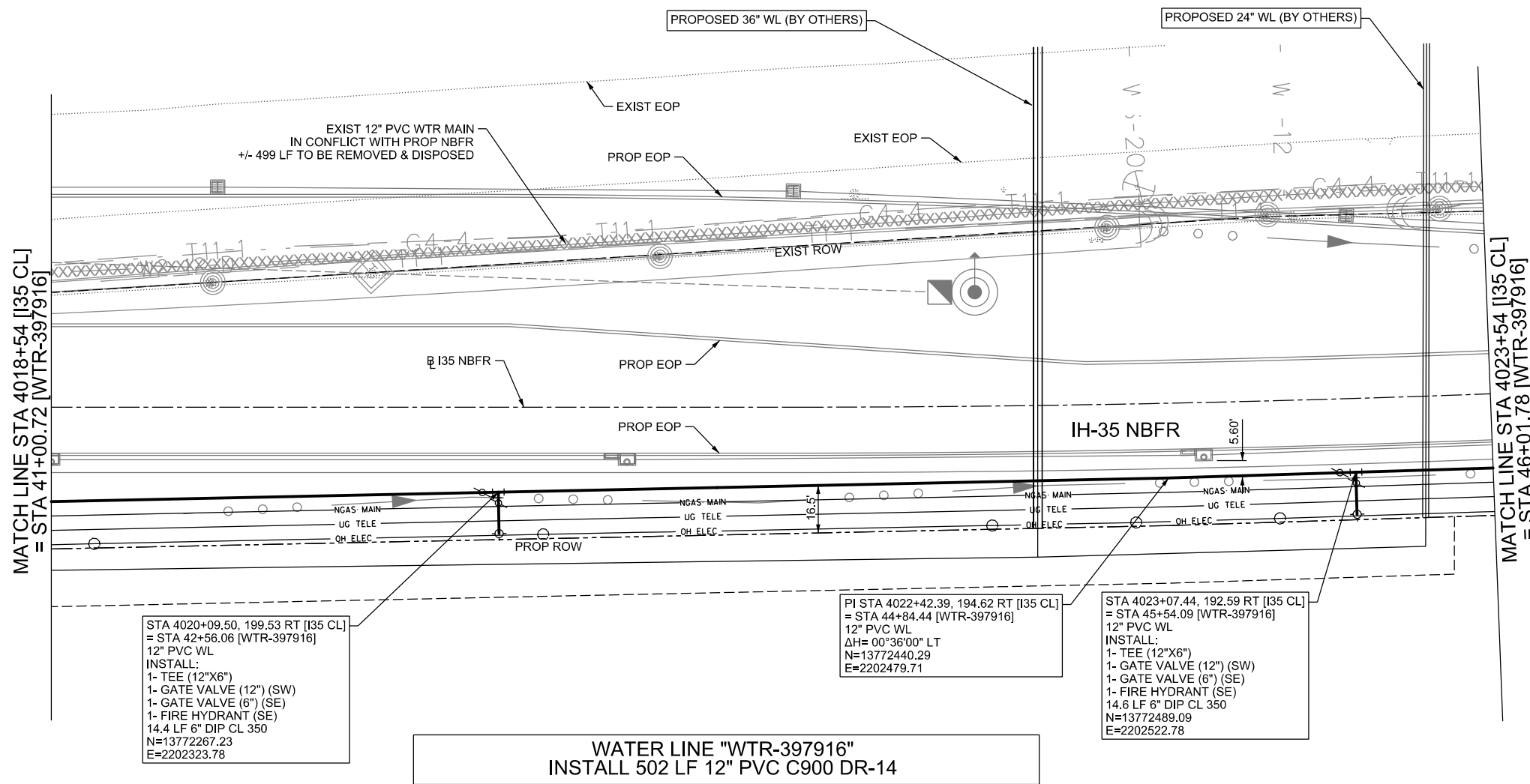
SCHERTZ
 COMMUNITY • SERVICE • OPPORTUNITY

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 TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
 WATER P&P - CL
 STA 4013+54 TO STA 4018+54

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2359
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



LEGEND

	EXISTING	PROPOSED
GAS LINE		NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM		UG TELE
WATER LINE		16" FM
FORCE MAIN LINE		8" SS
SANITARY SEWER LINE		
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

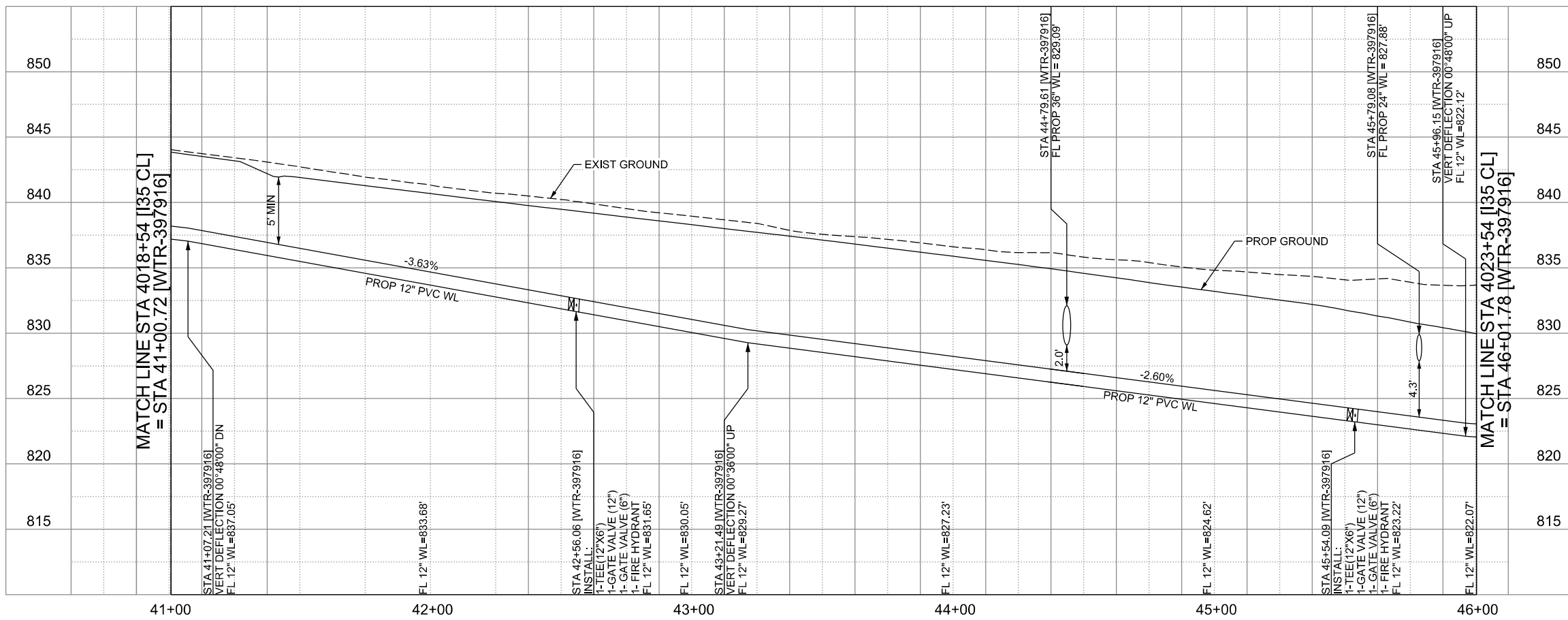
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

STA 4020+09.50, 199.53 RT [I35 CL]
= STA 42+56.06 [WTR-397916]
12" PVC WL
INSTALL:
1- TEE (12"x6")
1- GATE VALVE (12") (SW)
1- GATE VALVE (6") (SE)
1- FIRE HYDRANT (SE)
14.4 LF 6" DIP CL 350
N=13772267.23
E=2202323.78

PI STA 4022+42.39, 194.62 RT [I35 CL]
= STA 44+84.44 [WTR-397916]
12" PVC WL
ΔH= 00°36'00" LT
N=13772440.29
E=2202479.71

STA 4023+07.44, 192.59 RT [I35 CL]
= STA 45+54.09 [WTR-397916]
12" PVC WL
INSTALL:
1- TEE (12"x6")
1- GATE VALVE (12") (SW)
1- GATE VALVE (6") (SE)
1- FIRE HYDRANT (SE)
14.6 LF 6" DIP CL 350
N=13772489.09
E=2202522.78

**WATER LINE "WTR-397916"
INSTALL 502 LF 12" PVC C900 DR-14**



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

SCHERTZ
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TBPELS FIRM REGISTRATION #312

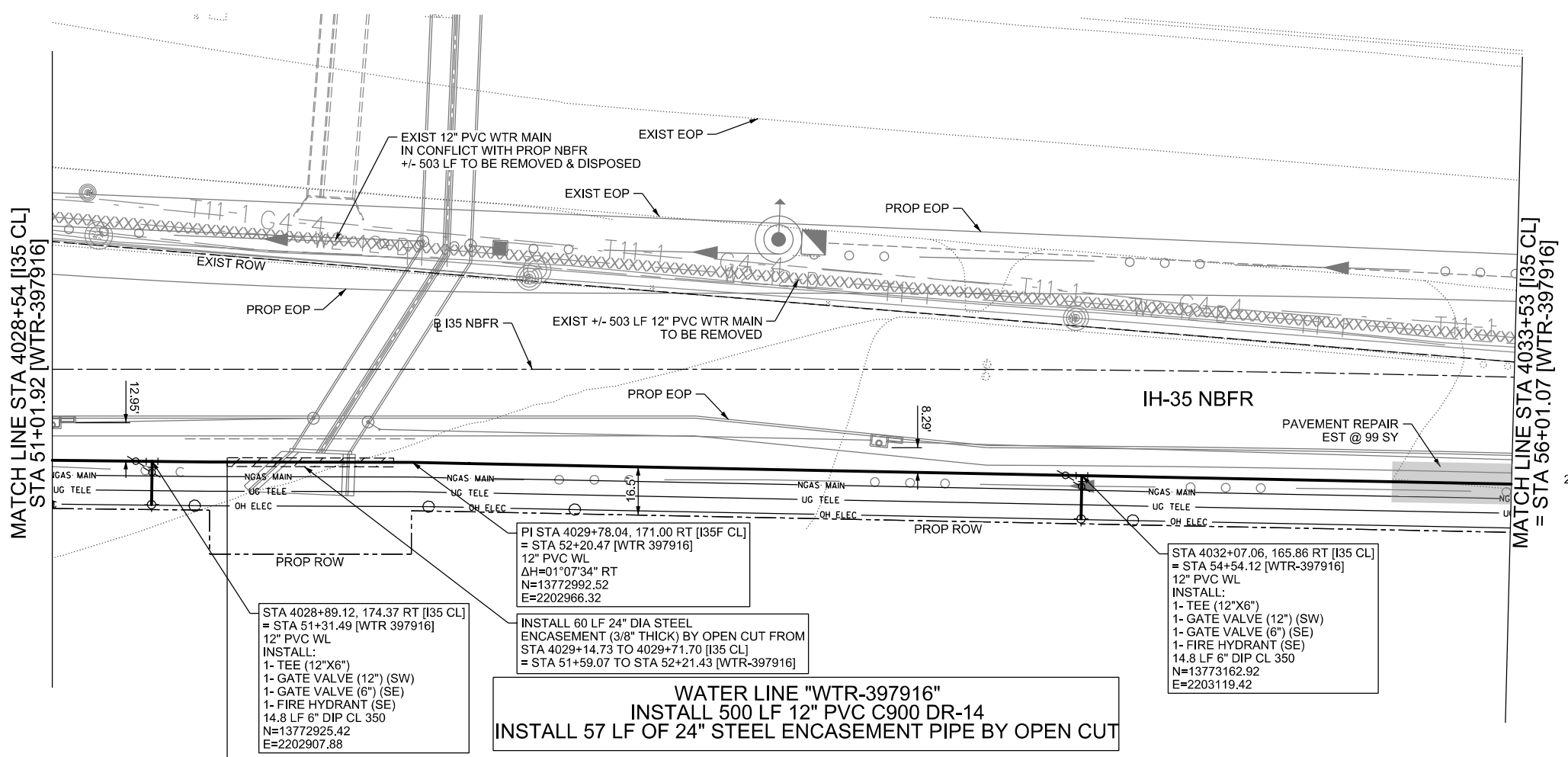
**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER P&P - CL
STA 4018+54 TO
STA 4023+54

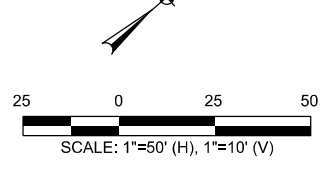
Texas Department of Transportation
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DSCN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2360
DRWN: AT, JG, AL, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05

111, ETC

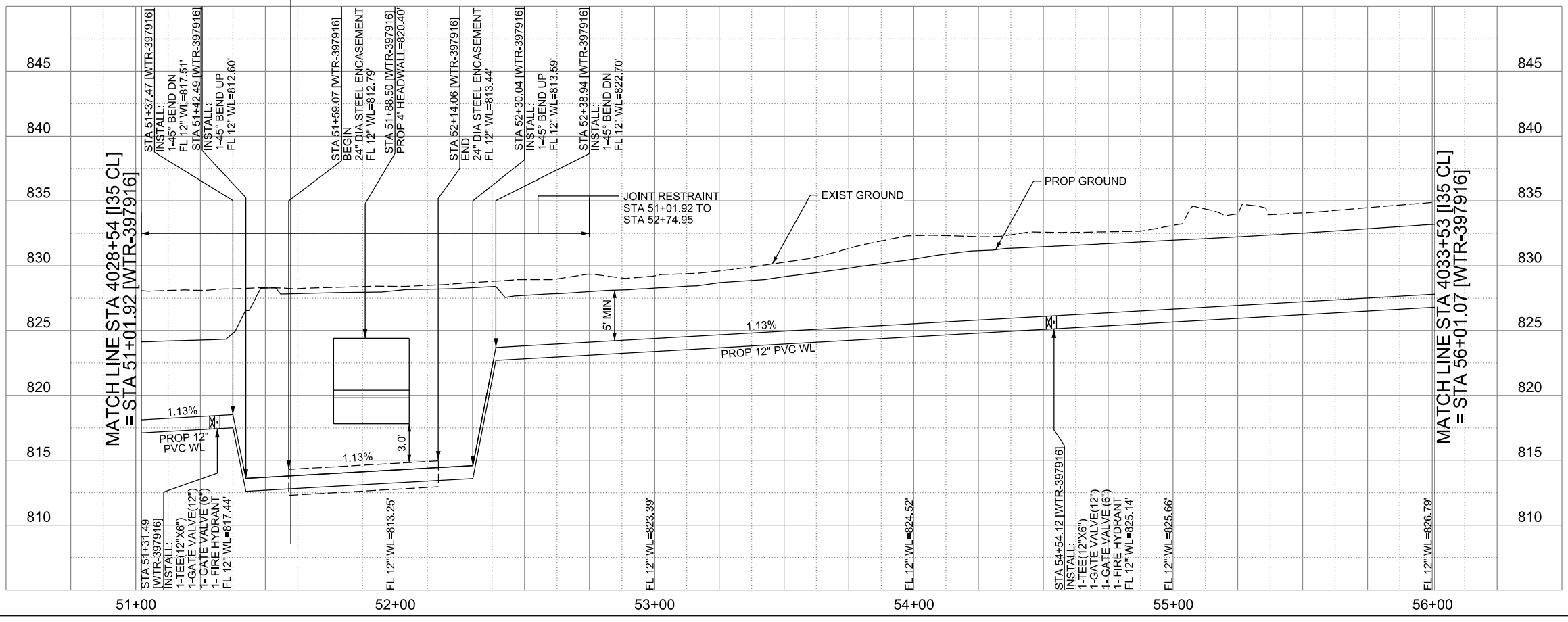


LEGEND		
	EXISTING	PROPOSED
GAS LINE		NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM		UG TELE
WATER LINE		16" FM
FORCE MAIN LINE		8"SS
SANITARY SEWER LINE		
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



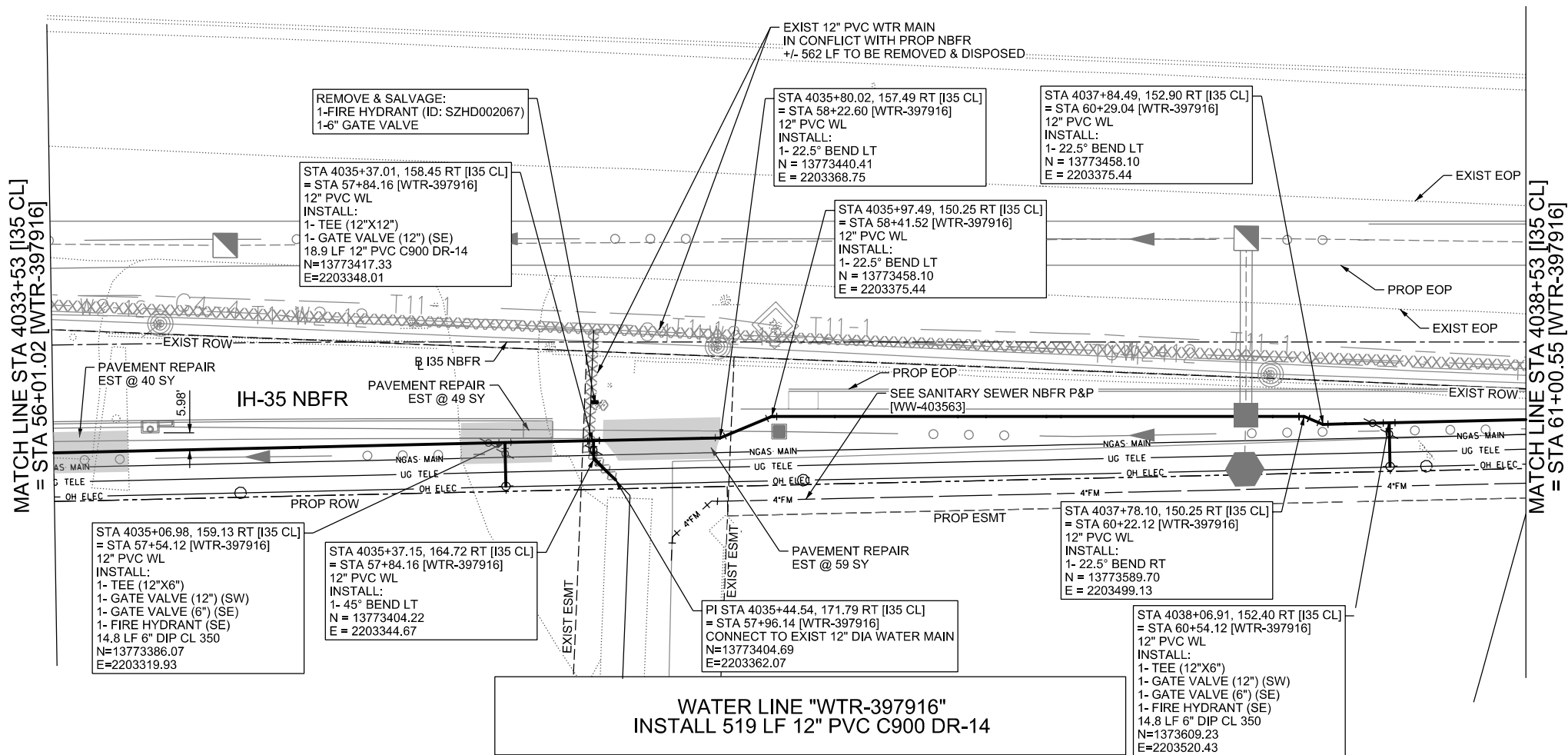
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WATER LINE "WTR-397916"
 INSTALL 500 LF 12" PVC C900 DR-14
 INSTALL 57 LF OF 24" STEEL ENCASUREMENT PIPE BY OPEN CUT



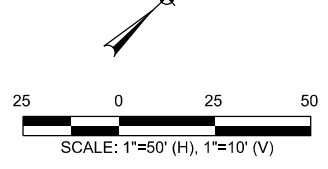
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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS		SCHERTZ COMMUNITY • SERVICE • OPPORTUNITY		halff TBPELS FIRM REGISTRATION #312	
IH-35NEX WATER RELOCATION PROJECT		WATER P&P - CL STA 4028+54 TO STA 4033+53			
Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		2362	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

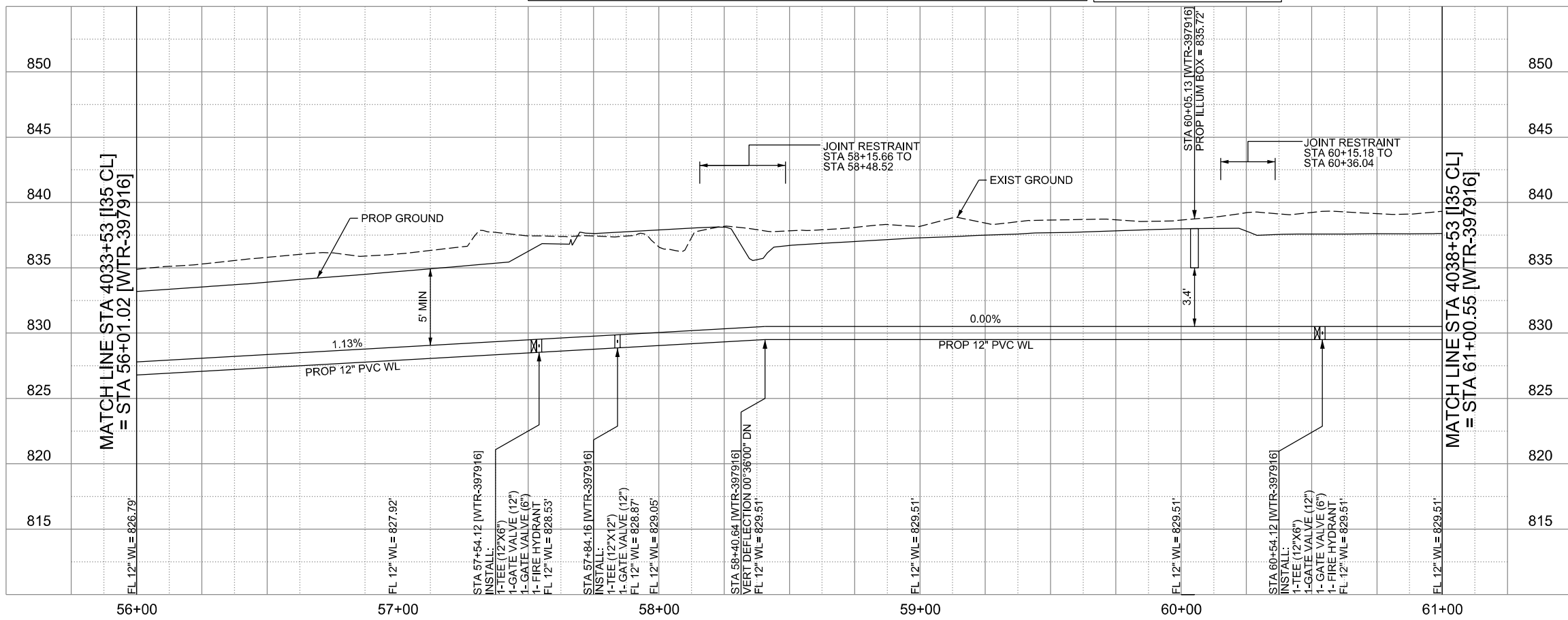


LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.



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ENGINEERING AND PUBLIC WORKS

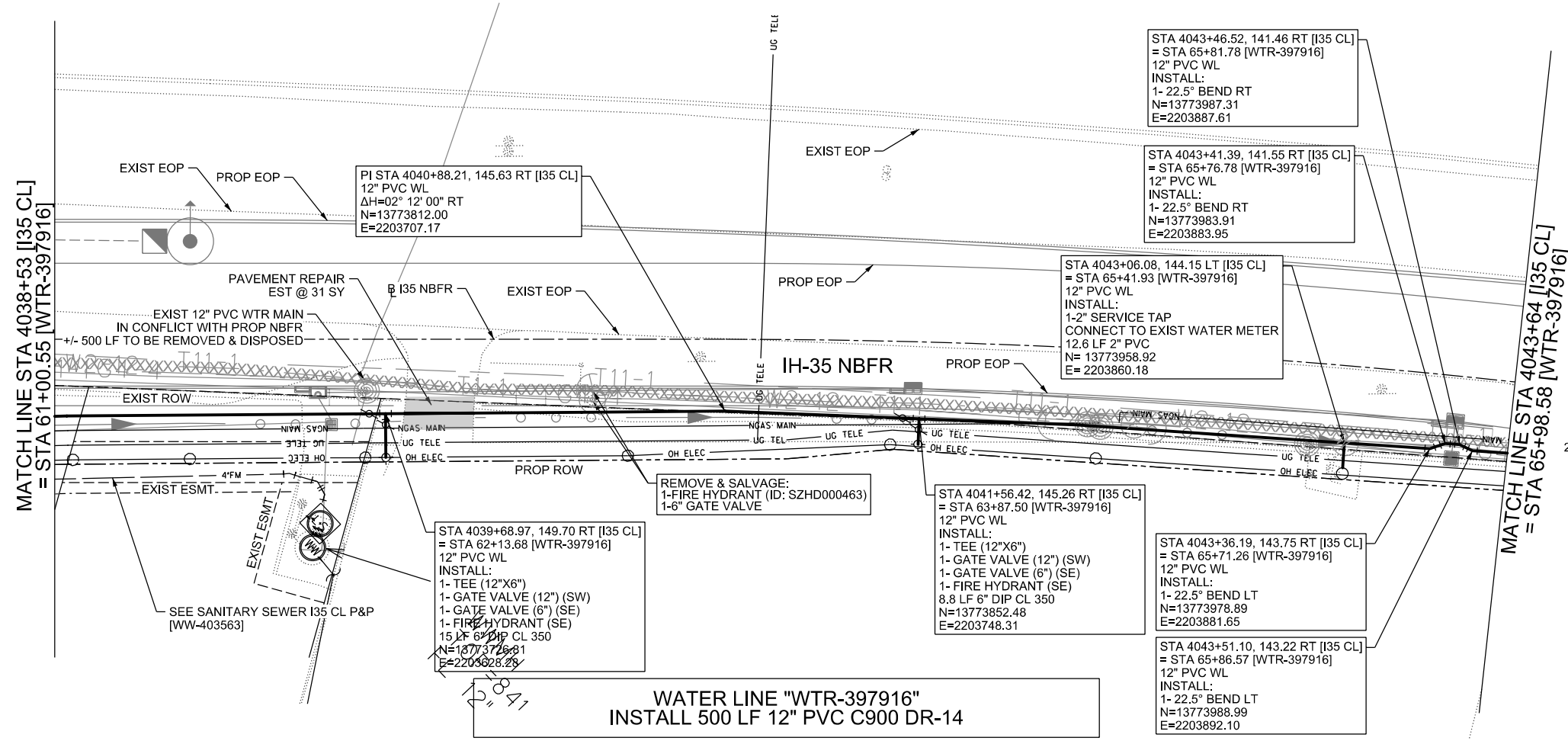
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TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4033+53 TO STA 4038+53

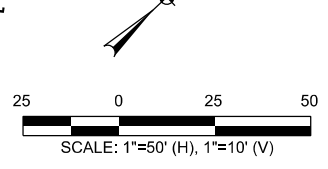
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2363
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

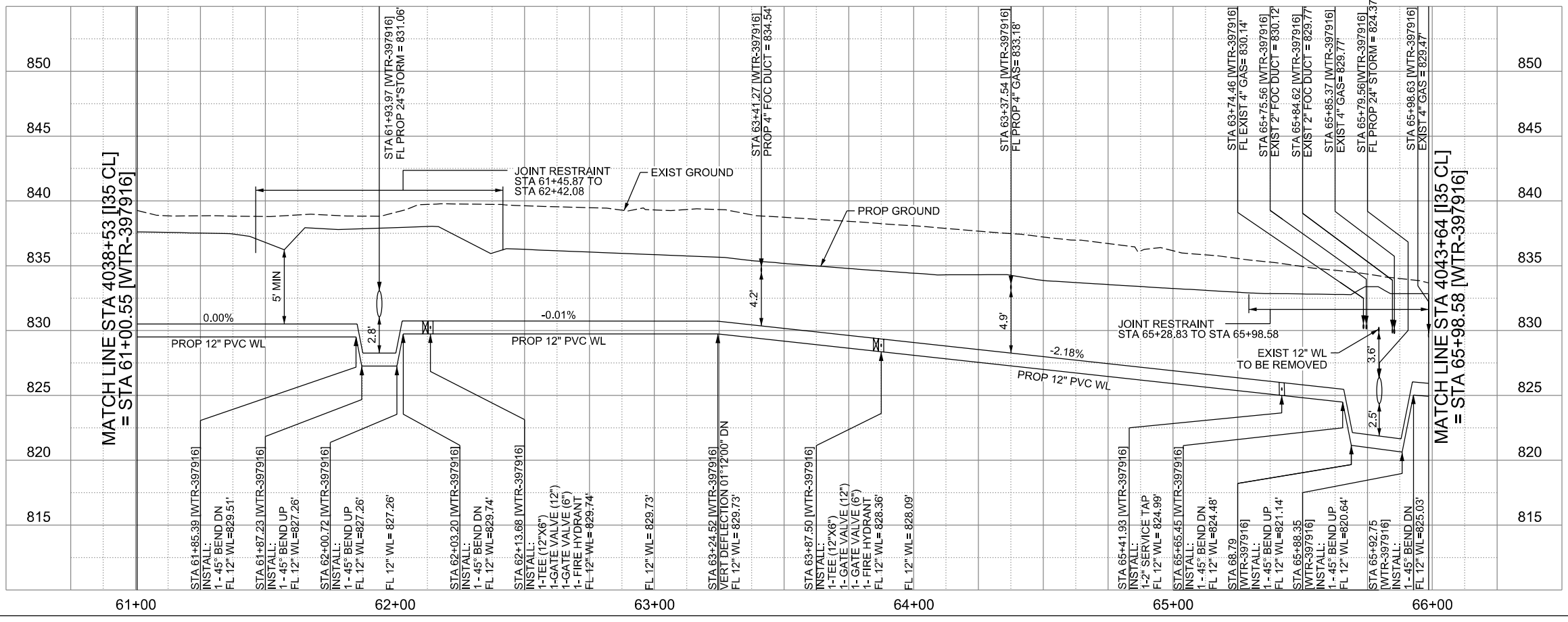


LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

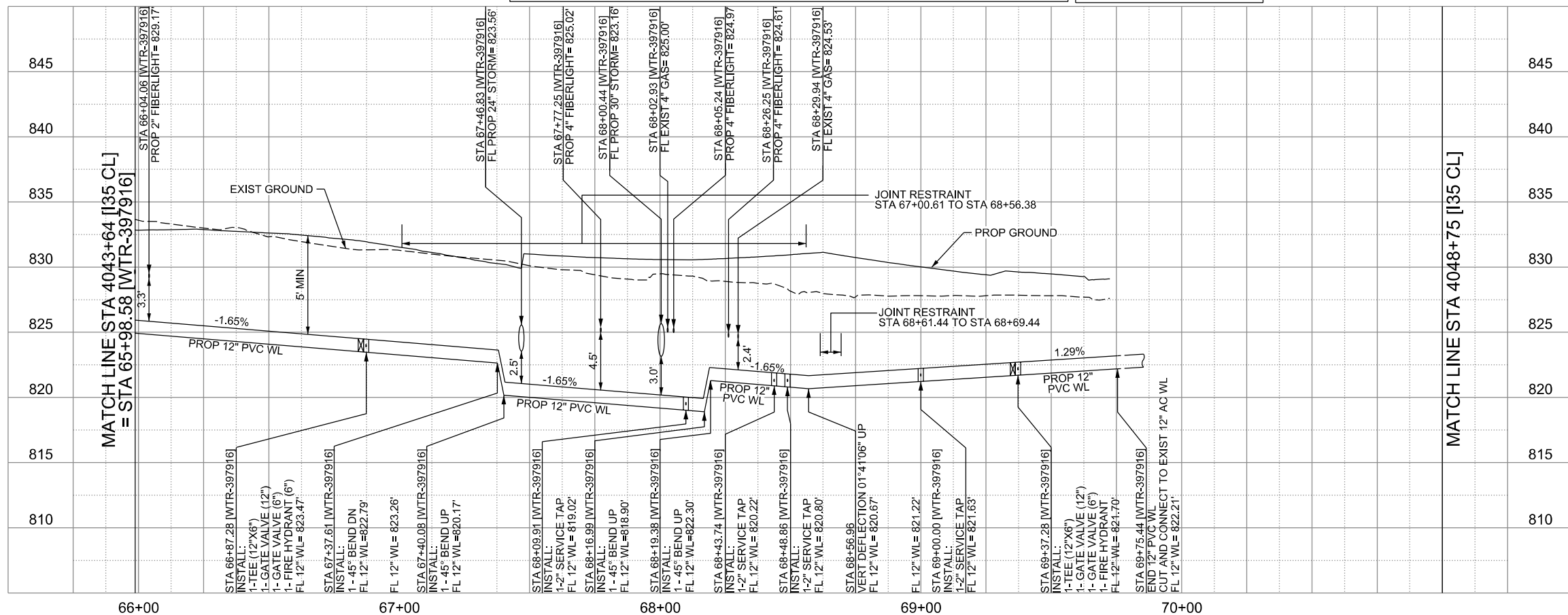
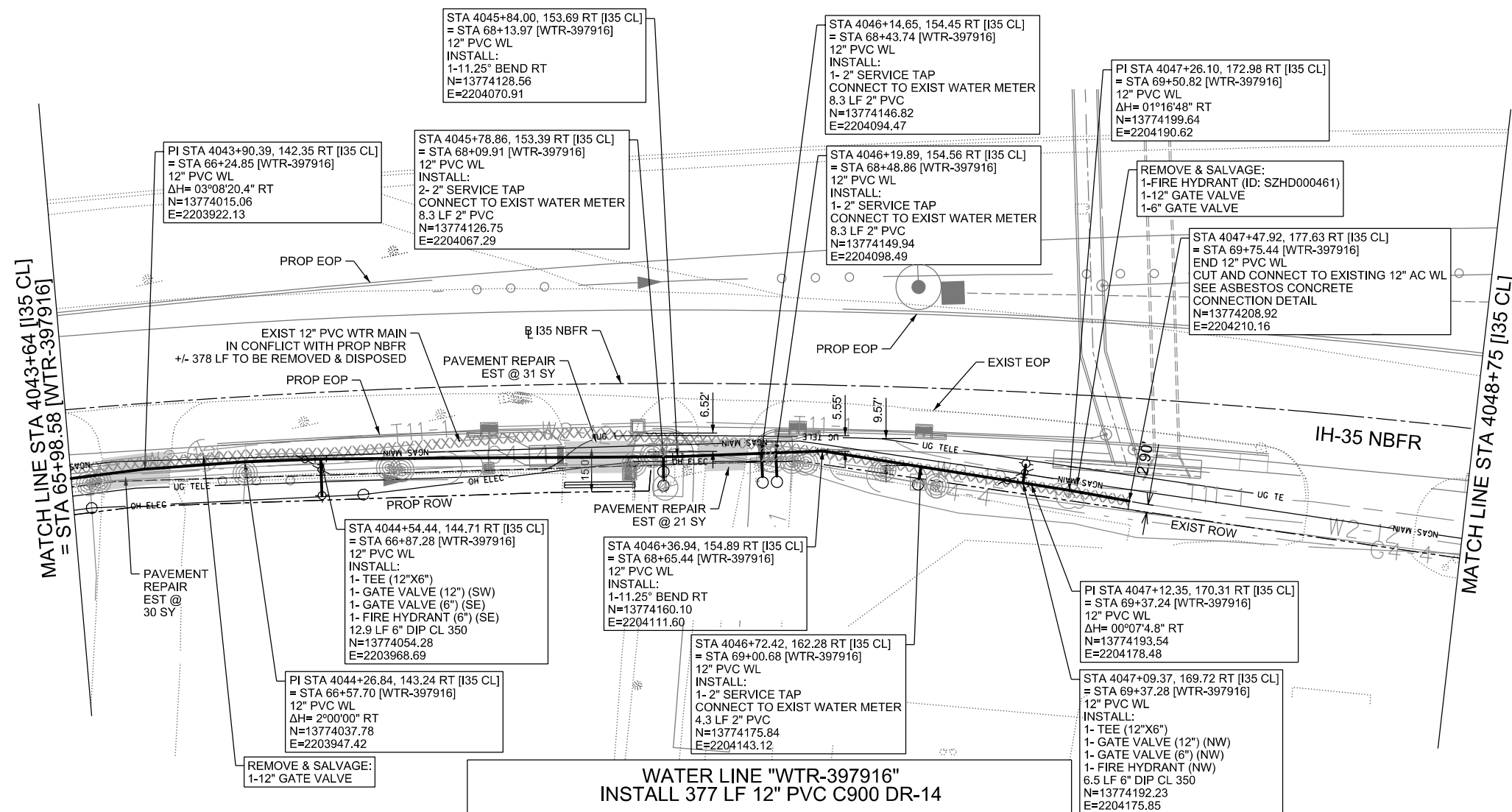
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ih-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4038+53 TO STA 4043+64

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2364
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

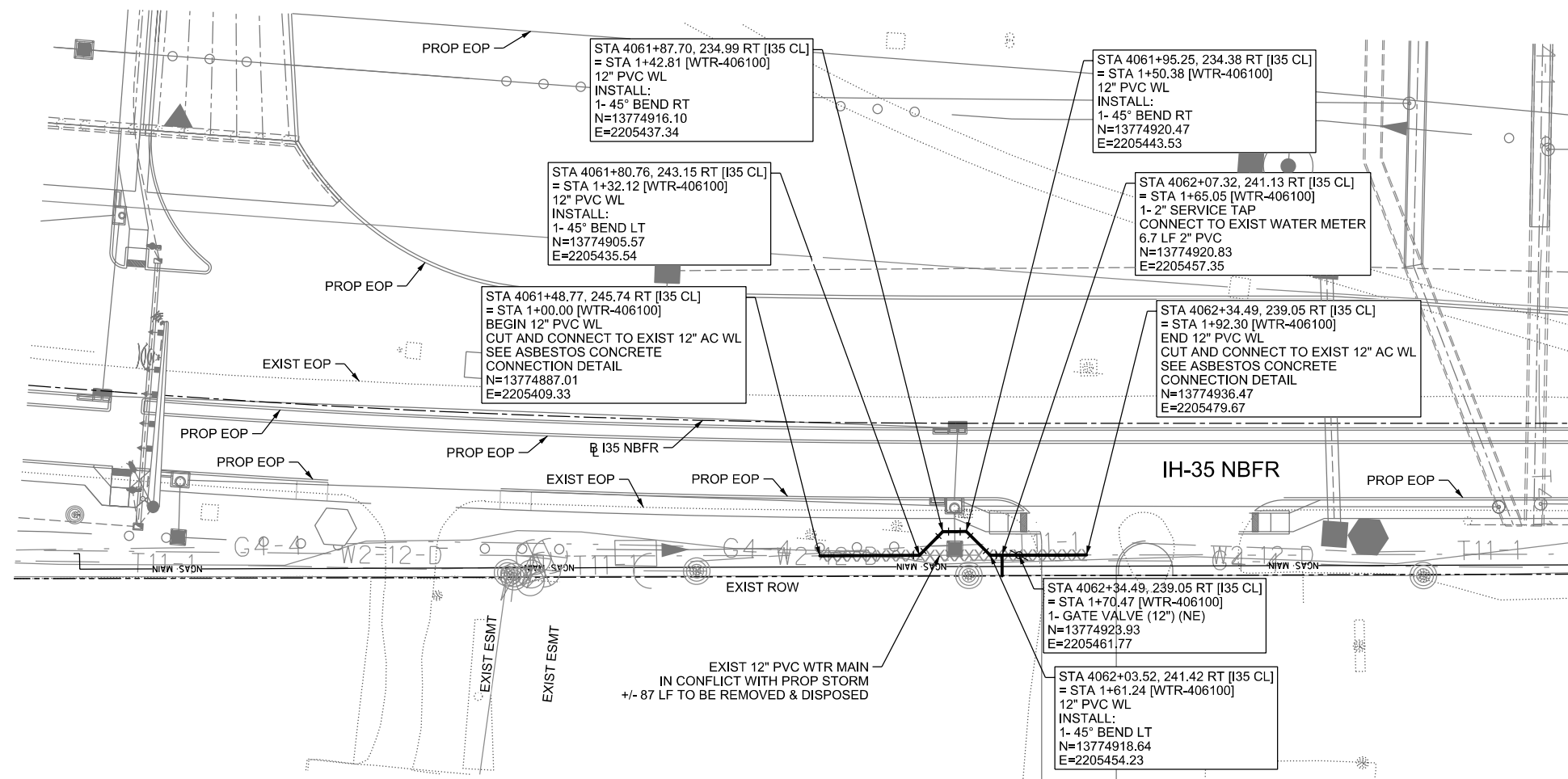
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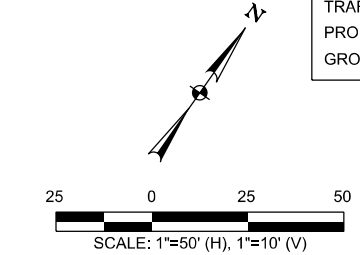
ih-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4043+64 TO STA 4048+75

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2365
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

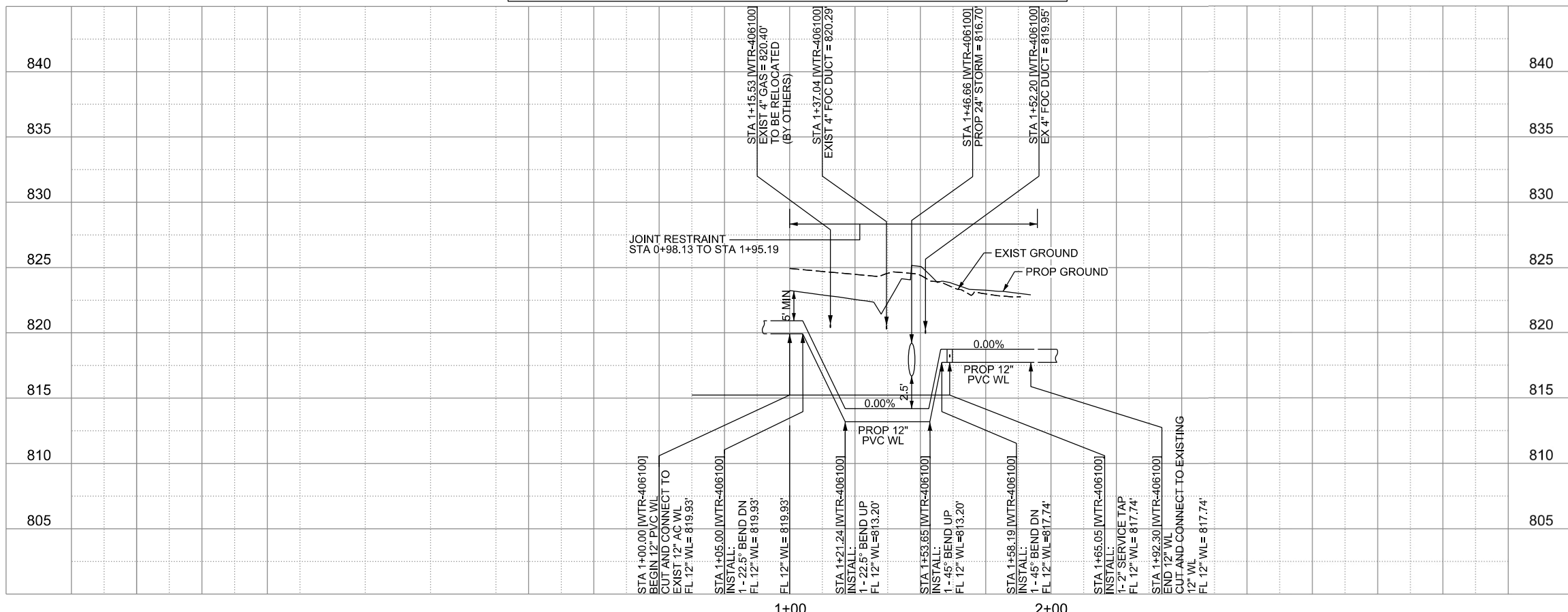


LEGEND		
	EXISTING	PROPOSED
GAS LINE		NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM		UG TELE
WATER LINE		16" FM
FORCE MAIN LINE		8" SS
SANITARY SEWER LINE		
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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**WATER LINE "WTR-406100"
INSTALL 93 LF 12" PVC C900 DR-14**



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

SCHERTZ
COMMUNITY • SERVICE • OPPORTUNITY

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TBPELS FIRM REGISTRATION #312

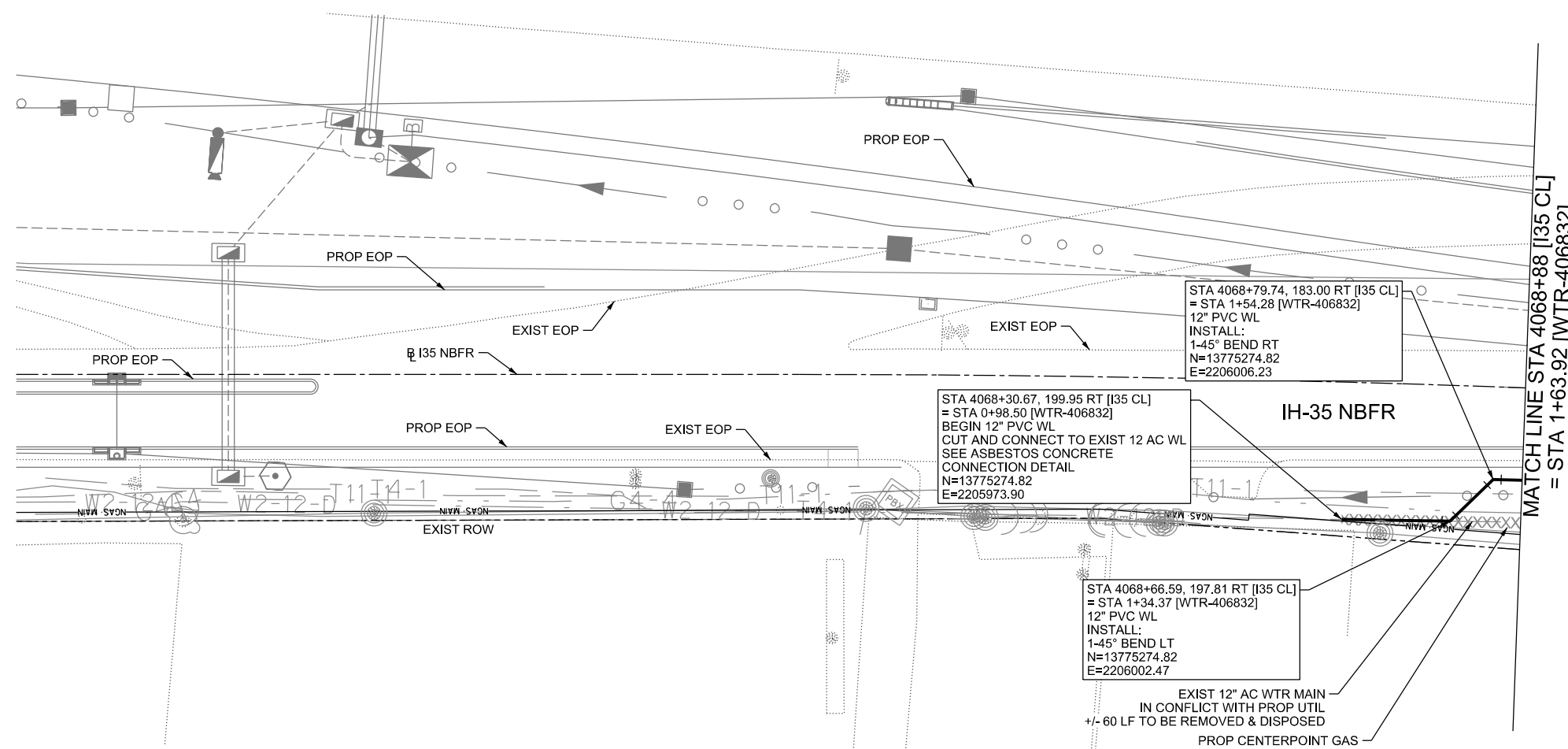
**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER P&P - CL
STA 4058+90 TO
STA 4063+89

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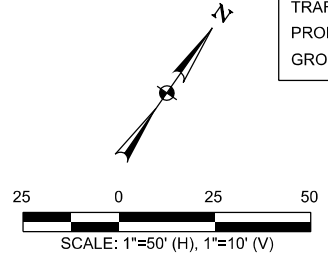
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2366
DRWN: AT, JG, AL, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05

JOB NO. 111, ETC



LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	16" FM
FORCE MAIN LINE		8"SS
SANITARY SEWER LINE	WW5-12-D	
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

WATER LINE "WTR-397916" INSTALL 66 LF 12" PVC C900 D-14



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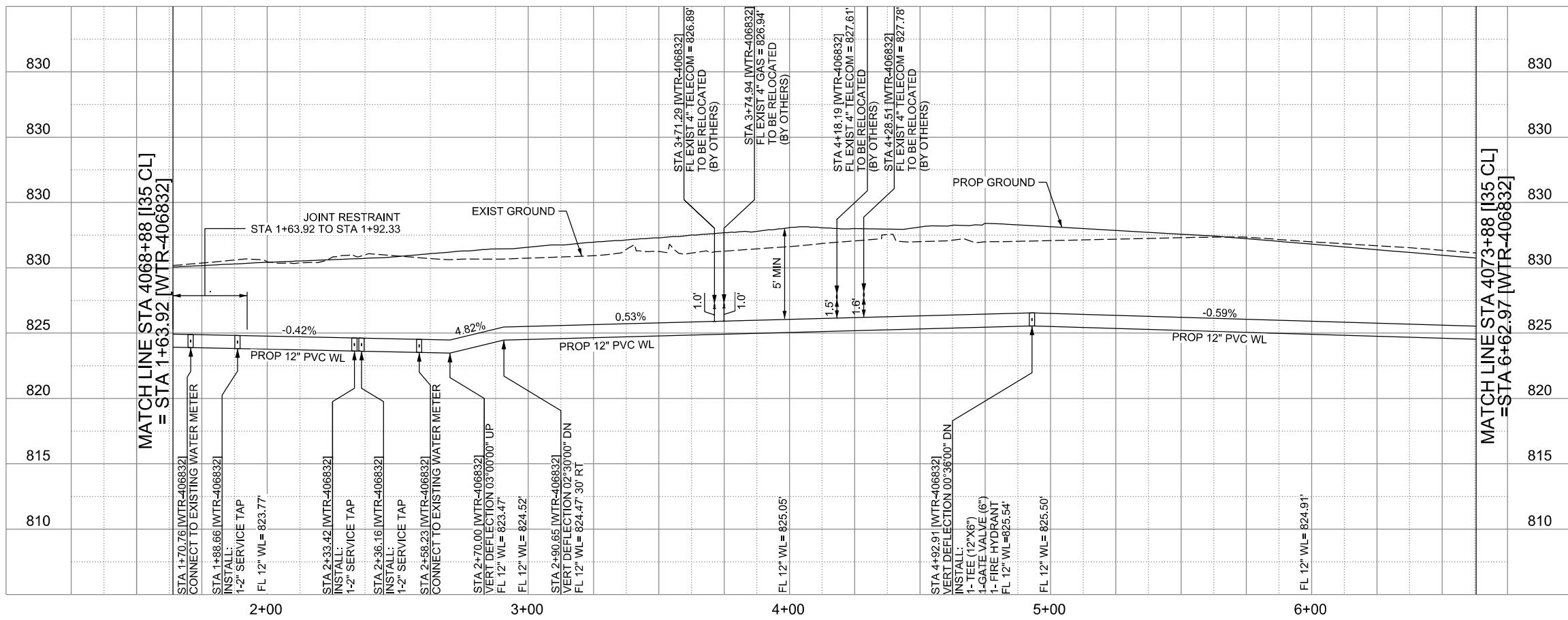
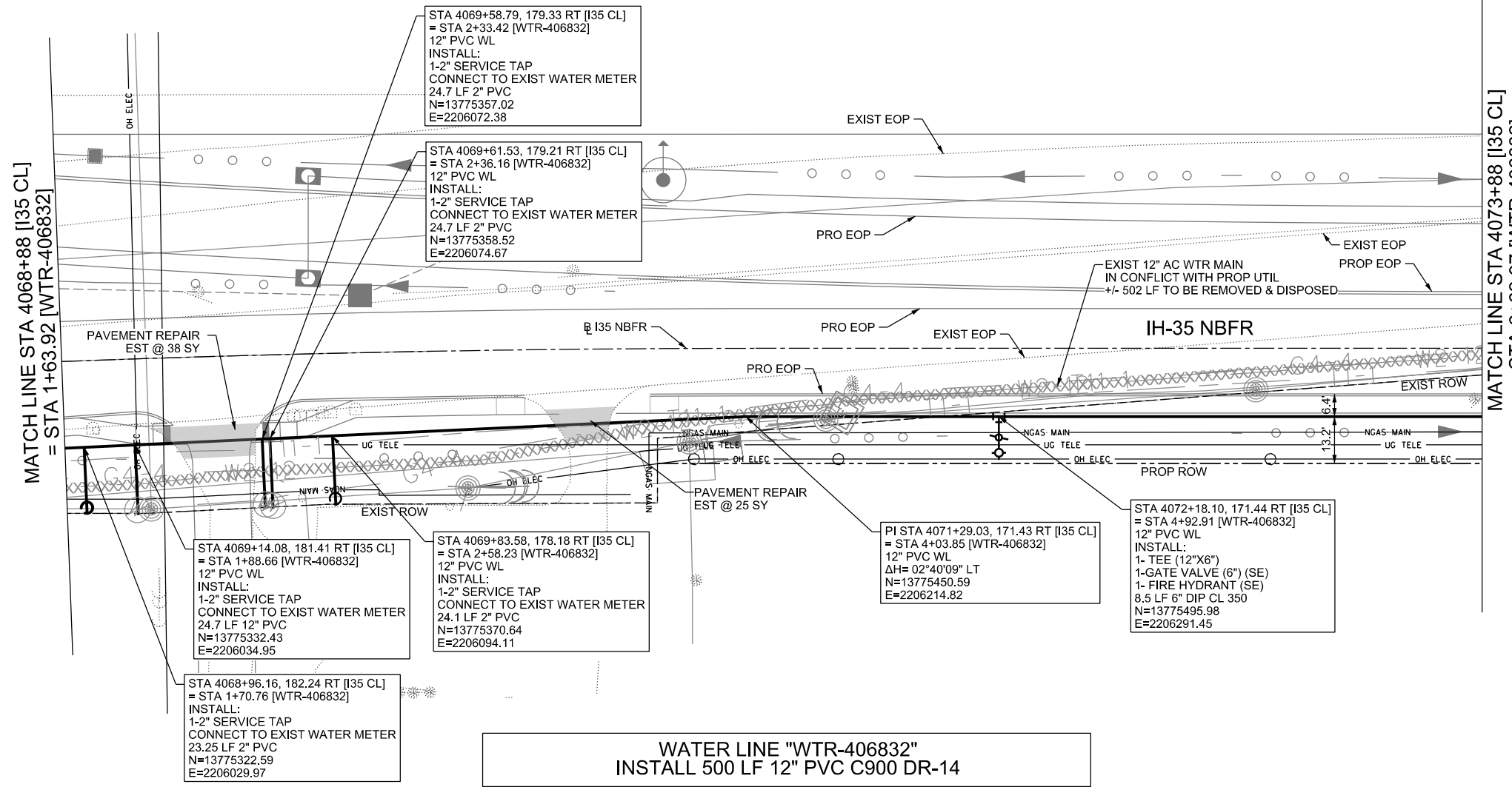
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TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4063+89 TO STA 4068+88

Texas Department of Transportation
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2367
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



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CITY OF SCHERTZ TEXAS
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TBPELS FIRM REGISTRATION #312

**IH-35NEX
WATER
RELOCATION
PROJECT**

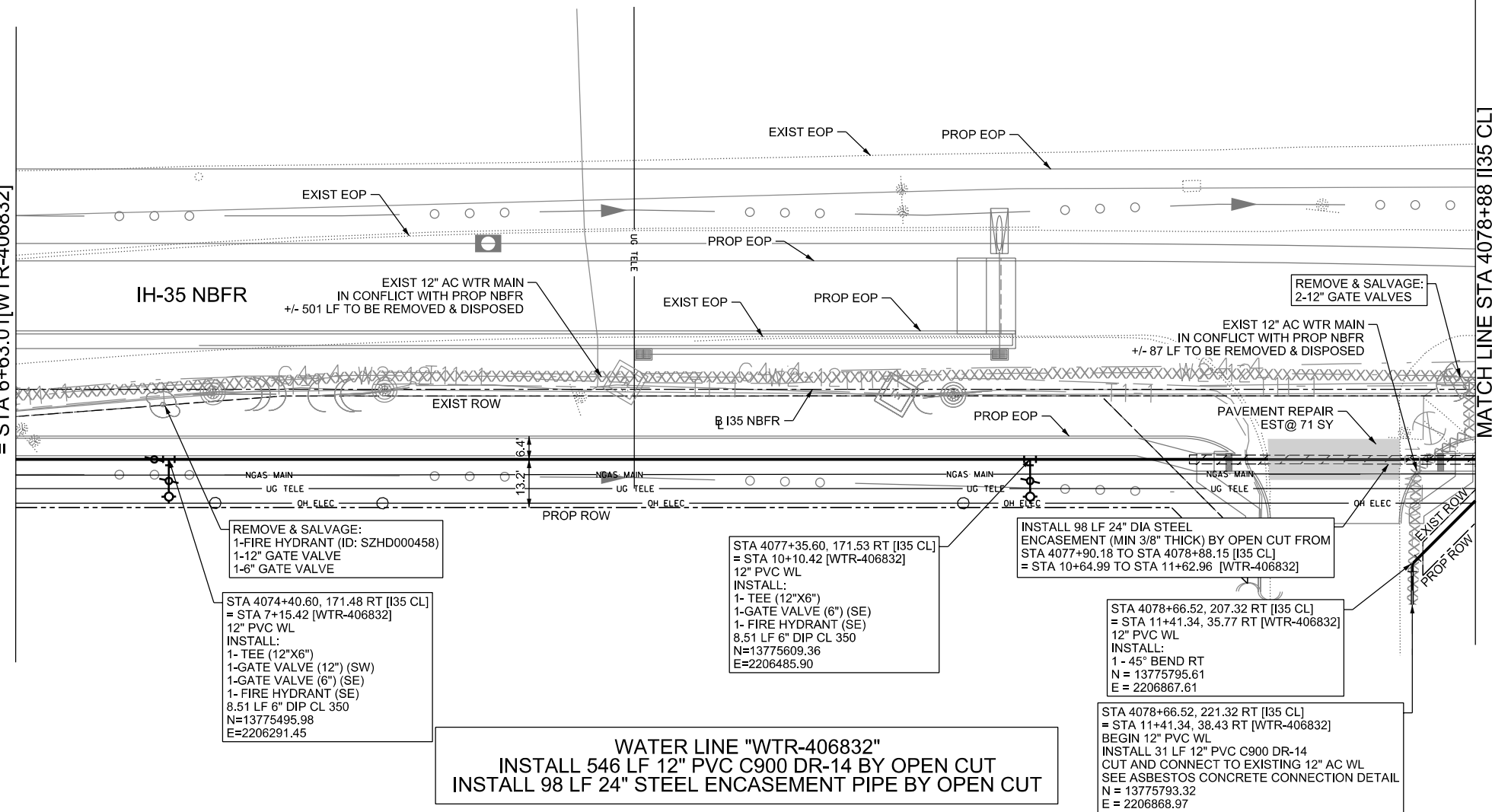
WATER P&P - CL
STA 4068+88 TO
STA 4073+88

Texas Department of Transportation
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2368
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

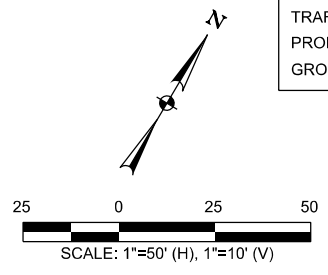
MATCH LINE STA 4073+88 [I35 CL]
= STA 6+63.01 [WTR-406832]

MATCH LINE STA 4078+88 [I35 CL]
= STA 11+62.97 [WTR-406832]

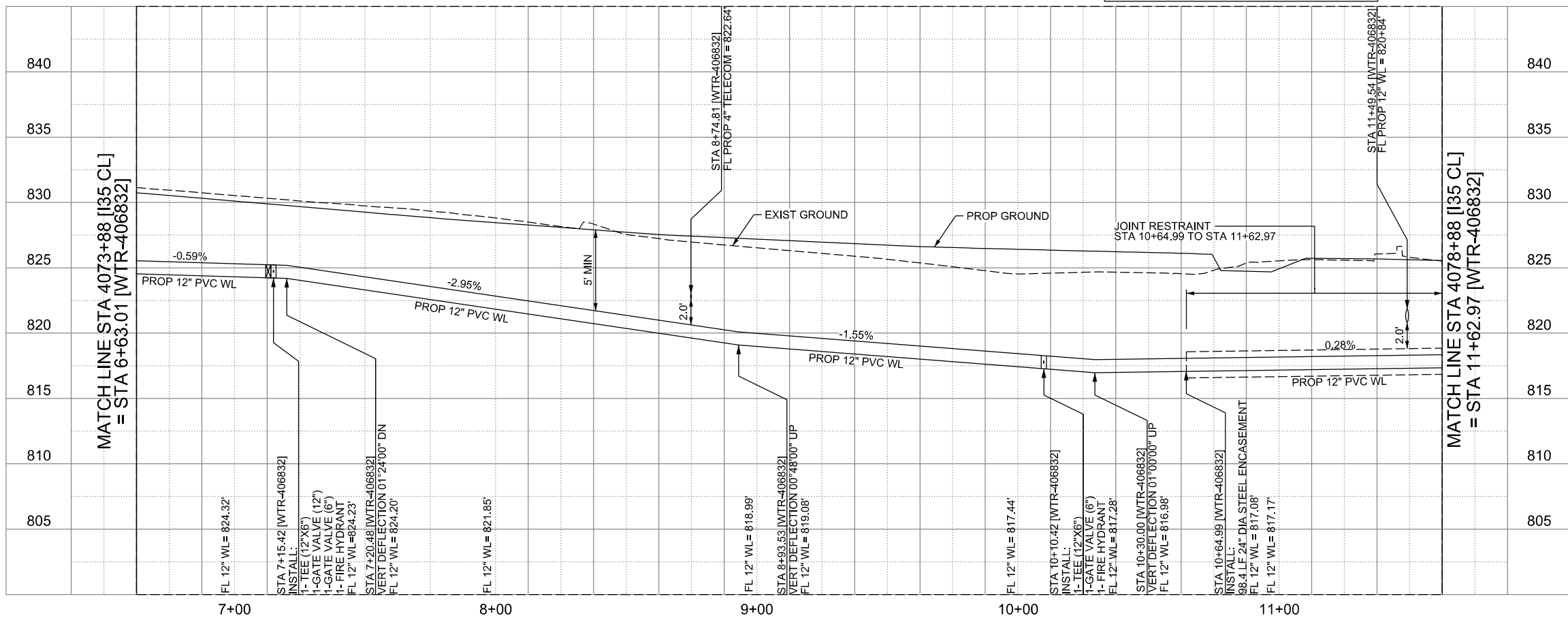


LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.



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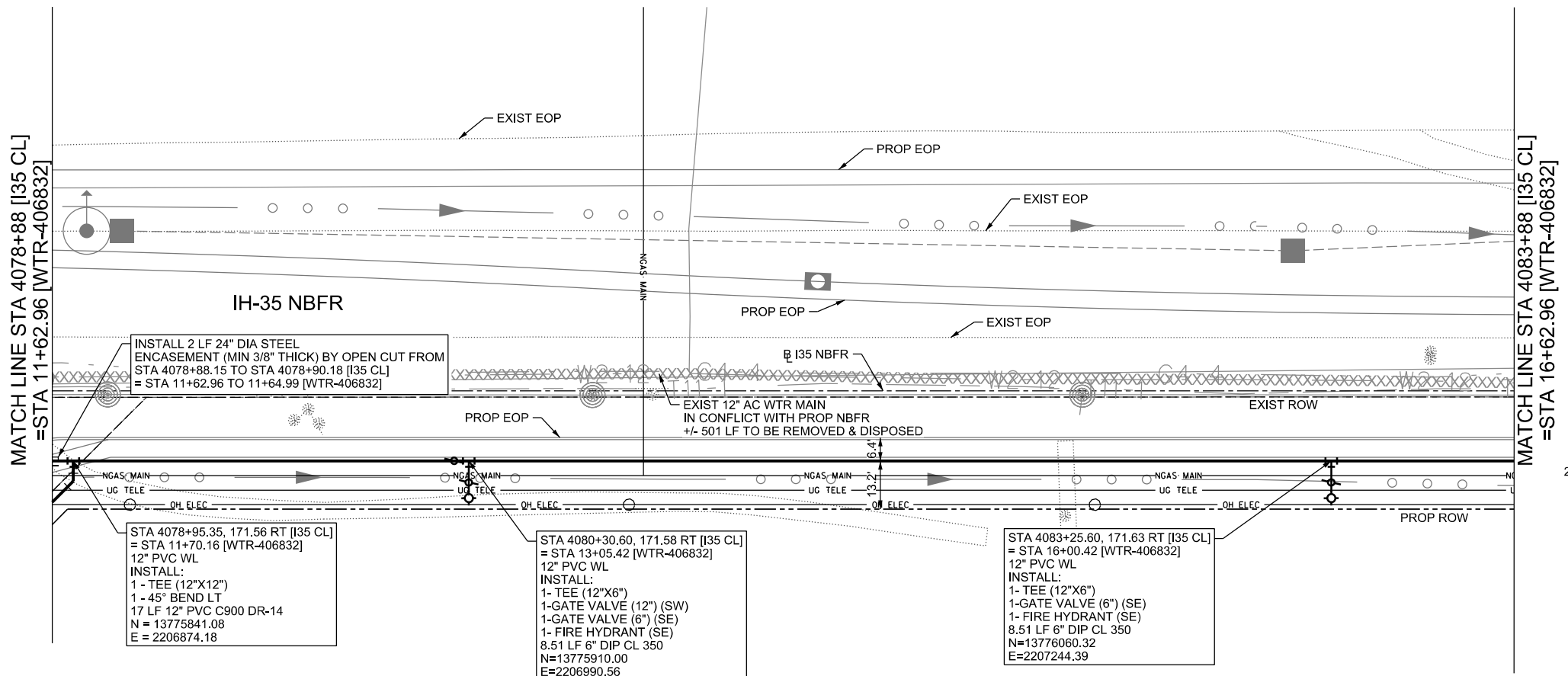
halff
TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT

WTR P&P - CL
STA 4073+88 TO STA 4078+88

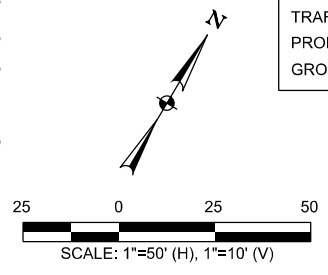
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2369
DRWN: AT, JG, AL, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC

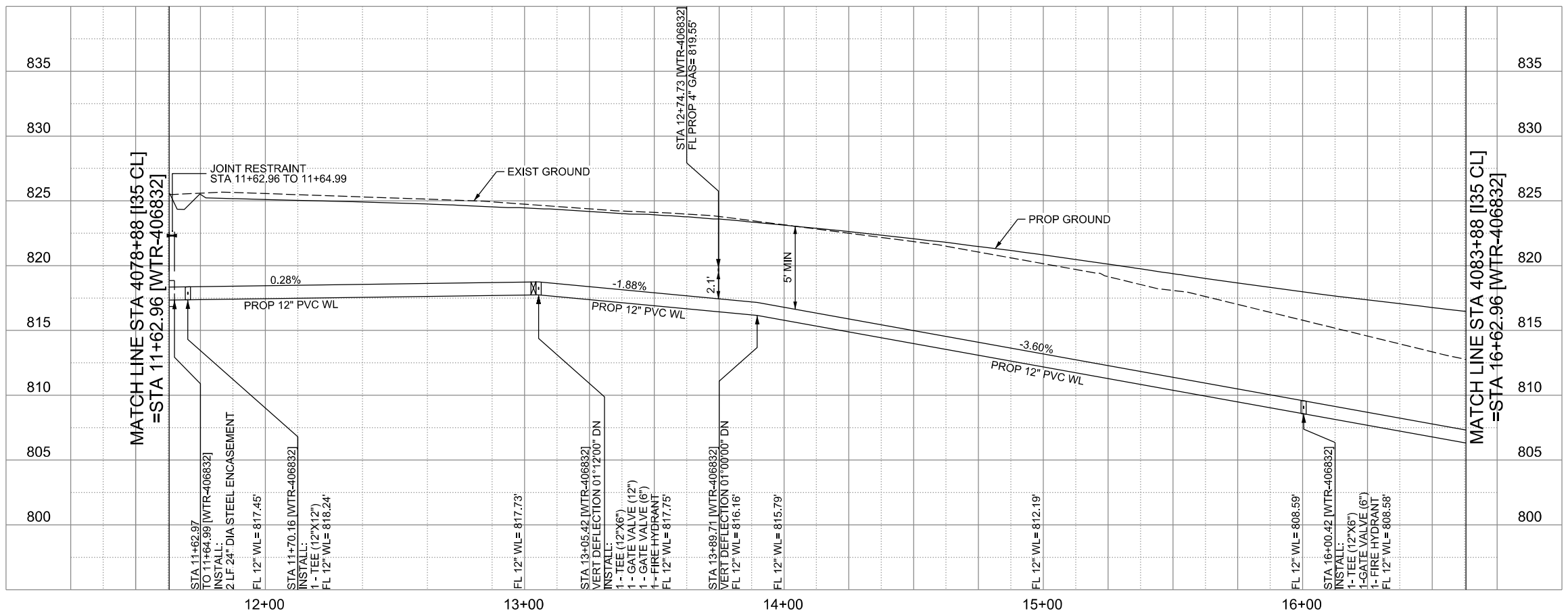


WATER LINE "WTR-406832"
 INSTALL 516 LF 12" PVC C900 DR-14 BY OPEN CUT
 INSTALL 2 LF 24" STEEL ENCASUREMENT PIPE BY OPEN CUT

LEGEND	
EXISTING	PROPOSED
GAS LINE	NGAS MAIN
OVERHEAD ELECTRIC	OH ELEC
UNDERGROUND TELECOM	UG TELE
WATER LINE	16" FM
FORCE MAIN LINE	8"SS
SANITARY SEWER LINE	
SANITARY SEWER MH	
STORM SEWER	
FIRE HYDRANT ASSEMBLY	
WATER VALVE	
SERVICE RELAY	
RELOCATE METER	
PRESSURE REDUCING VALVE	
BLOW OFF VALVE	
STEEL ENCASUREMENT	
LUMINAIRES	
TRAFFIC CONDUIT	
TRAFFIC LIGHT	
PROPOSED ELECTRICAL SERVICE	
GROUND BOX	



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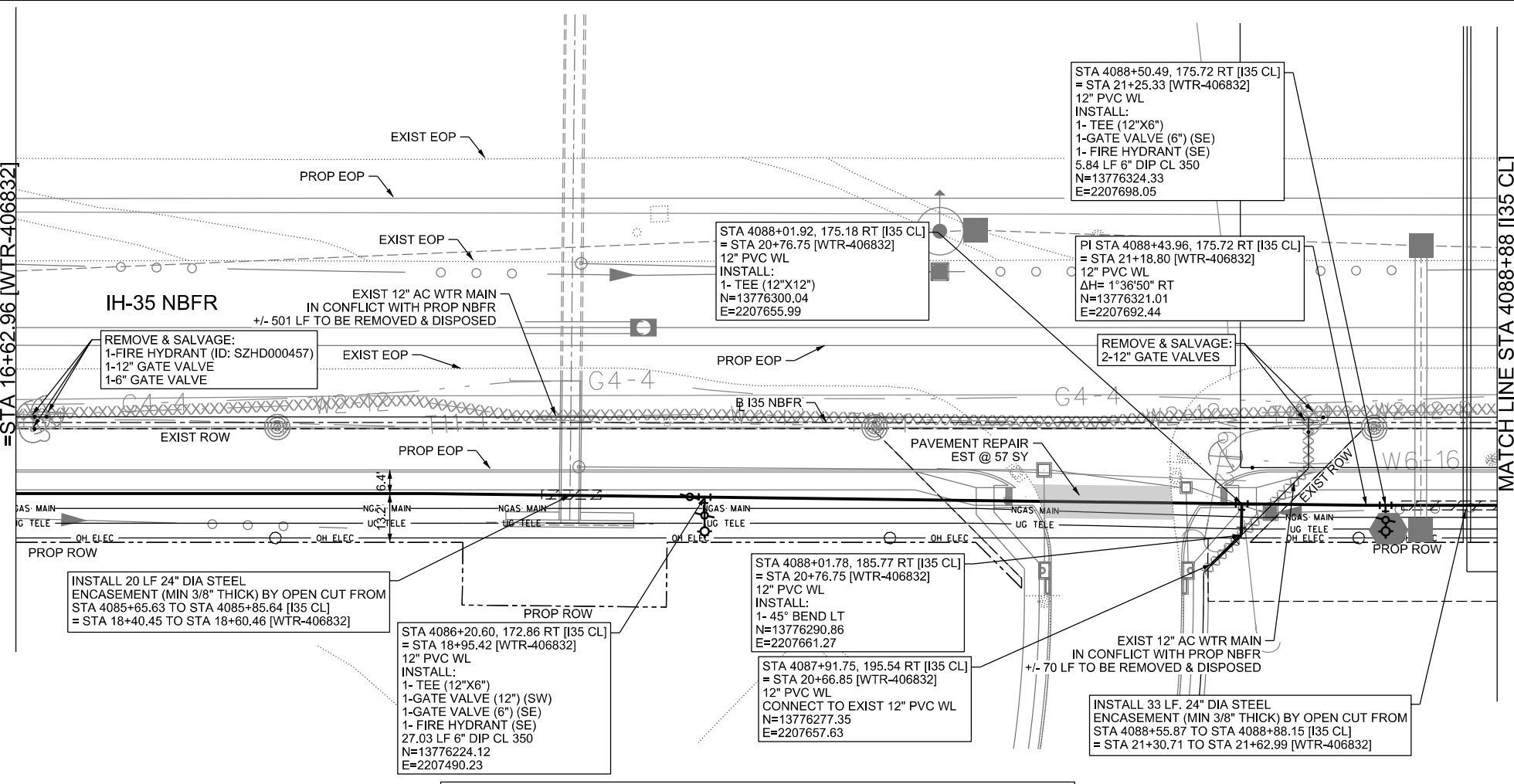
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 TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
 WATER P&P - CL
 STA 4078+88 TO STA 4083+88

Texas Department of Transportation		© 2021	
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.
CHECKED: PD, KA	NO.	TEXAS	2370
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.
CHECKED: PD, KA	SAT	COMAL	0016
			SECTION NO.
			05
			JOB NO.
			111, ETC

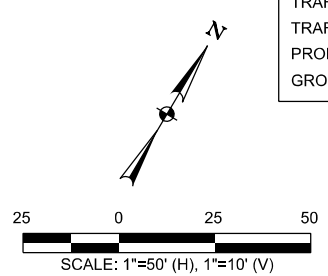
MATCHLINE STA 4083+88 [I35 CL]
=STA 16+62.96 [WTR-406832]

MATCHLINE STA 4088+88 [I35 CL]
=STA 21+62.99 [WTR-406832]



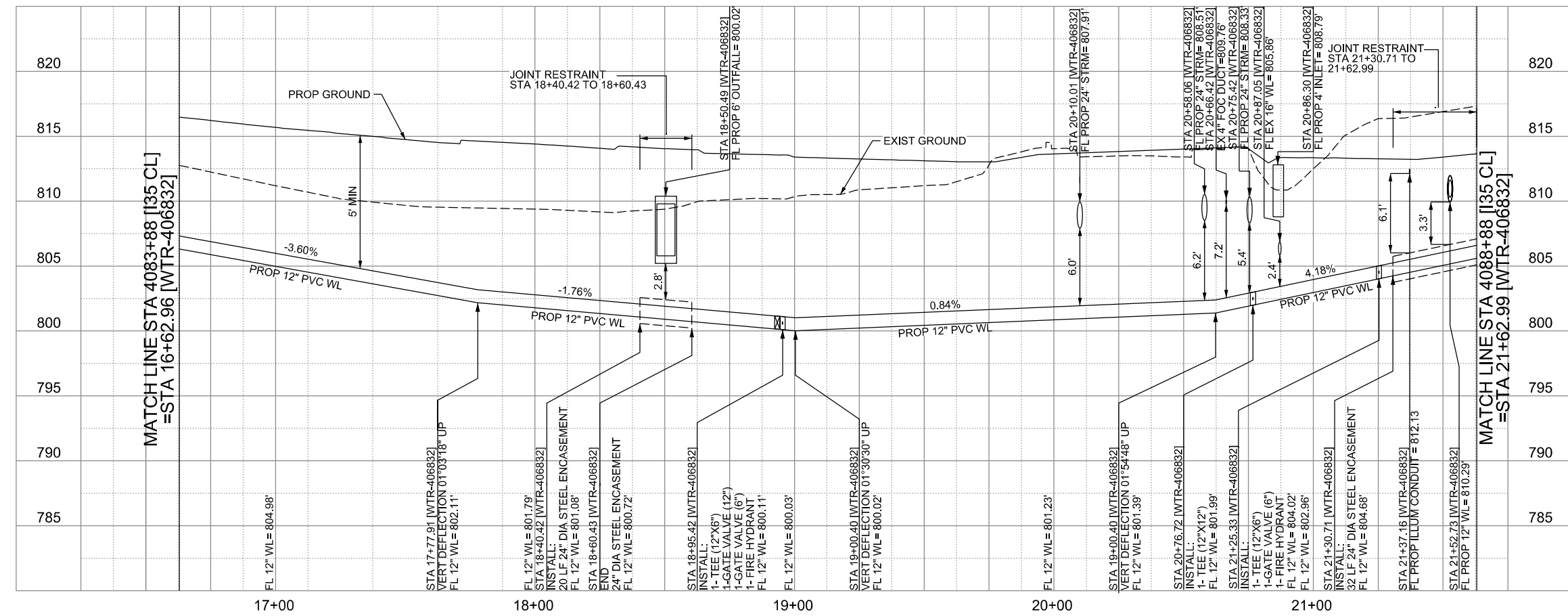
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASEMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

WATER LINE "WTR-406832"
 INSTALL 525 LF 12" PVC C900 DR-14 BY OPEN CUT
 INSTALL 53 LF 24" STEEL ENCASEMENT PIPE BY OPEN CUT



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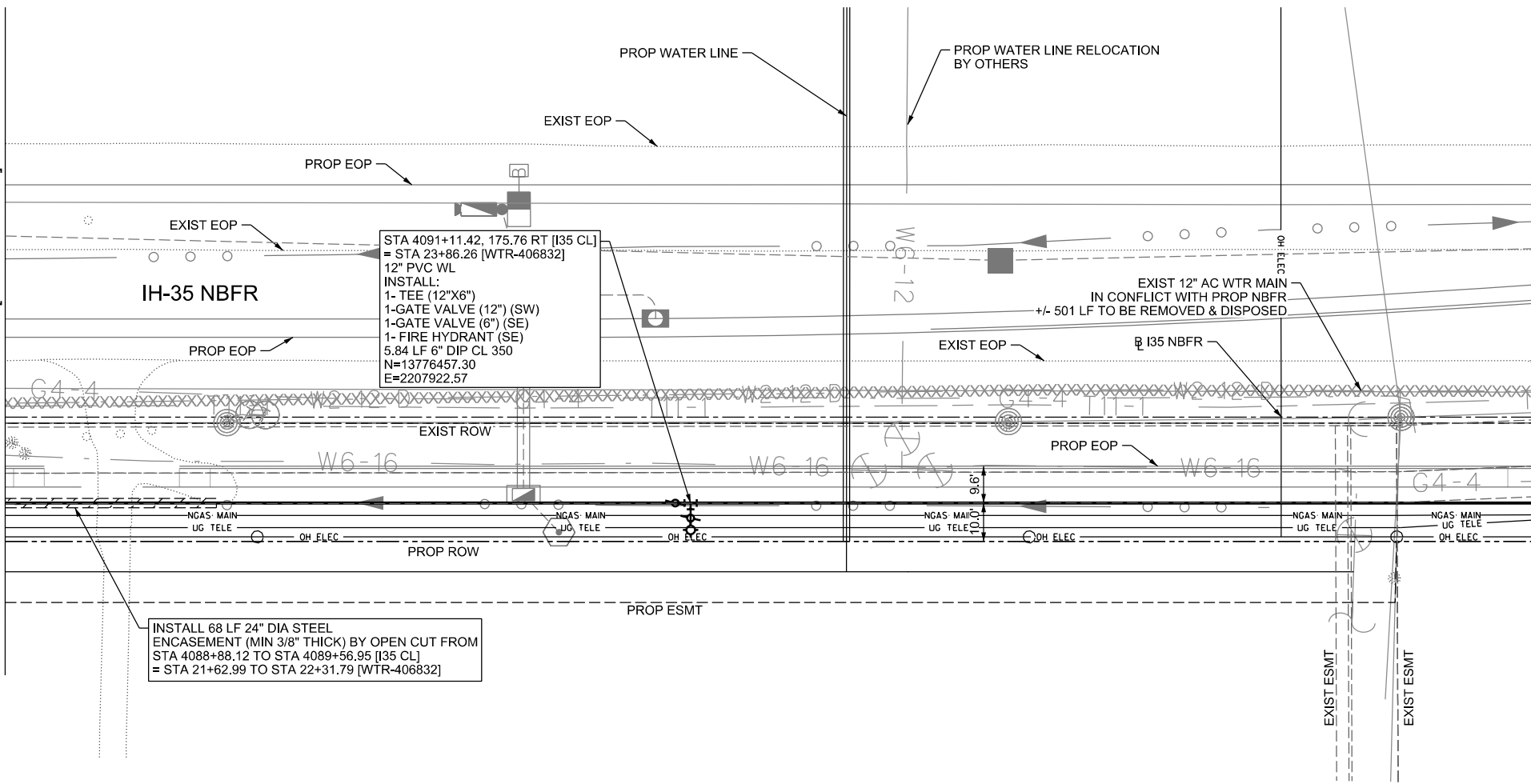
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 TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
 WATER P&P - CL
 STA 4083+88 TO STA 4088+88

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2371
DRWN: AD, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

MATCH LINE STA 4088+88 [I35 CL]
=STA 21+62.99 [WTR-406832]

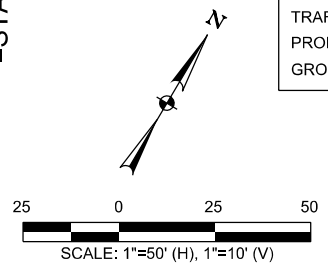


INSTALL 68 LF 24" DIA STEEL ENCASEMENT (MIN 3/8" THICK) BY OPEN CUT FROM STA 4088+88.12 TO STA 4089+56.95 [I35 CL] = STA 21+62.99 TO STA 22+31.79 [WTR-406832]

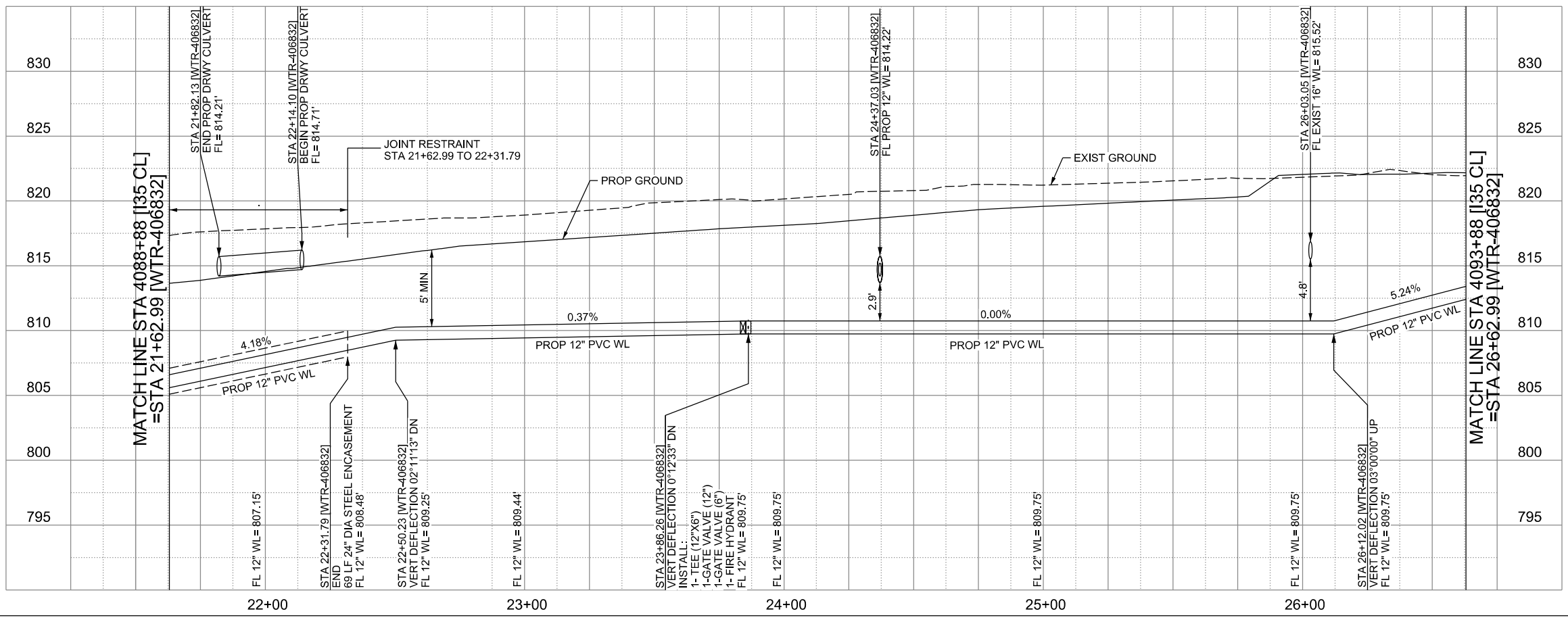
STA 4091+11.42, 175.76 RT [I35 CL]
= STA 23+86.26 [WTR-406832]
12" PVC WL
INSTALL:
1- TEE (12"x6")
1-GATE VALVE (12") (SW)
1-GATE VALVE (6") (SE)
1- FIRE HYDRANT (SE)
5.84 LF 6" DIP CL 350
N=13776457.30
E=2207922.57

WATER LINE "WTR-406832"
INSTALL 432 LF 12" PVC C900 DR-14 BY OPEN CUT
INSTALL 68 LF 24" STEEL ENCASEMENT PIPE BY OPEN CUT

LEGEND		EXISTING	PROPOSED
GAS LINE		G4-4	NGAS MAIN
OVERHEAD ELECTRIC			OH ELEC
UNDERGROUND TELECOM		T8-01	UG TELE
WATER LINE		W2-12-D	
FORCE MAIN LINE			16" FM
SANITARY SEWER LINE		WW5-12-D	8"SS
SANITARY SEWER MH			
STORM SEWER			
FIRE HYDRANT ASSEMBLY			
WATER VALVE			
SERVICE RELAY			
RELOCATE METER			
PRESSURE REDUCING VALVE			
BLOW OFF VALVE			
STEEL ENCASEMENT			
LUMINAIRES			
TRAFFIC CONDUIT			
TRAFFIC LIGHT			
PROPOSED ELECTRICAL SERVICE			
GROUND BOX			



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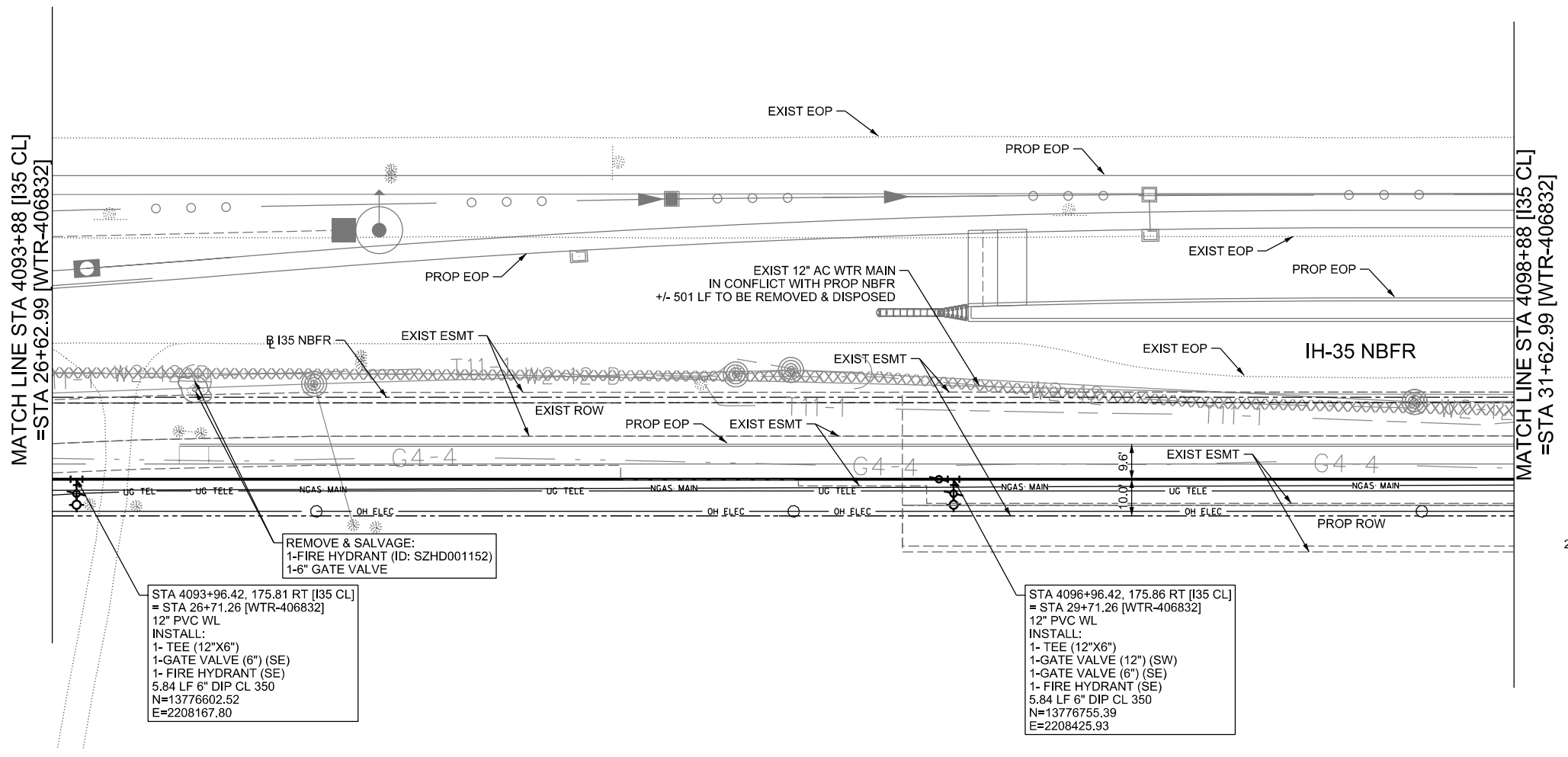
CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

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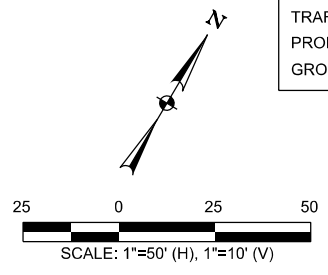
IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4088+88 TO STA 4093+88

Texas Department of Transportation © 2021		PROJECT NO.		SHEET NO.
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2372
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC



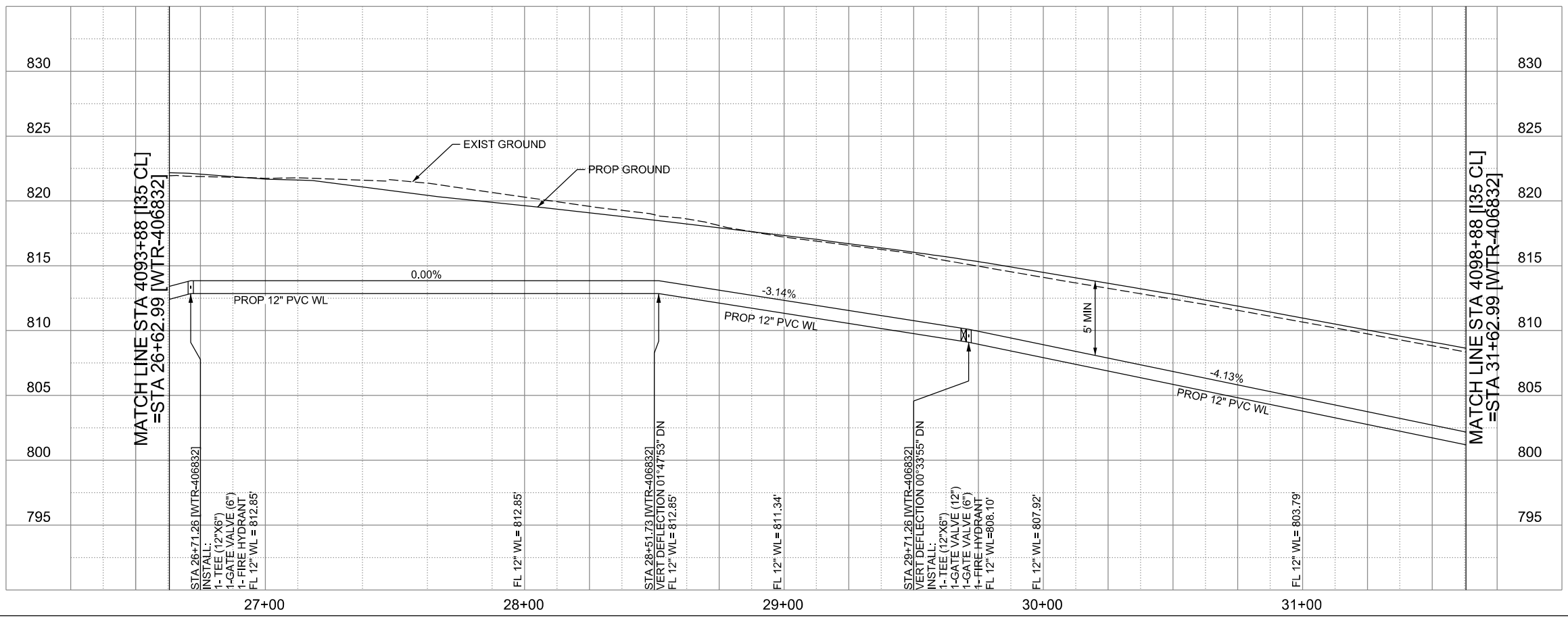
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

**WATER LINE "WTR-406832"
INSTALL 500 LF 12" PVC C900 DR-14 BY OPEN CUT**



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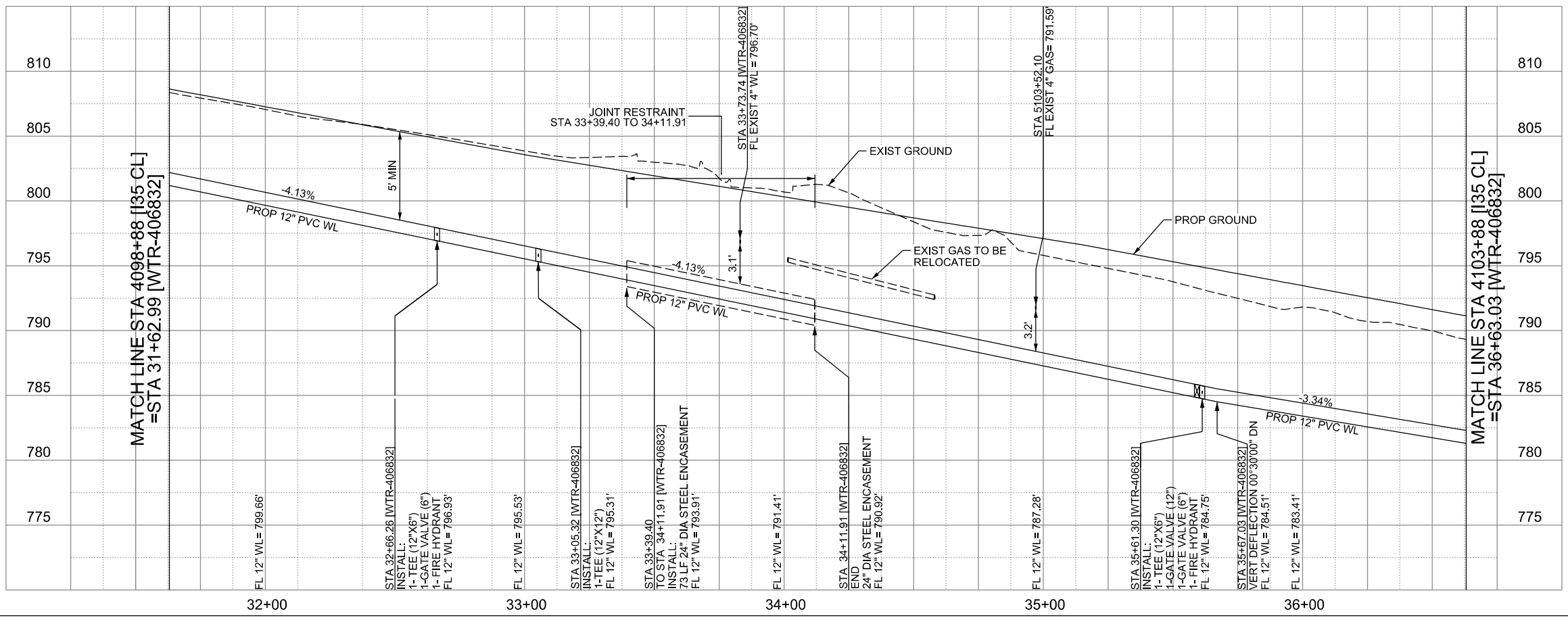
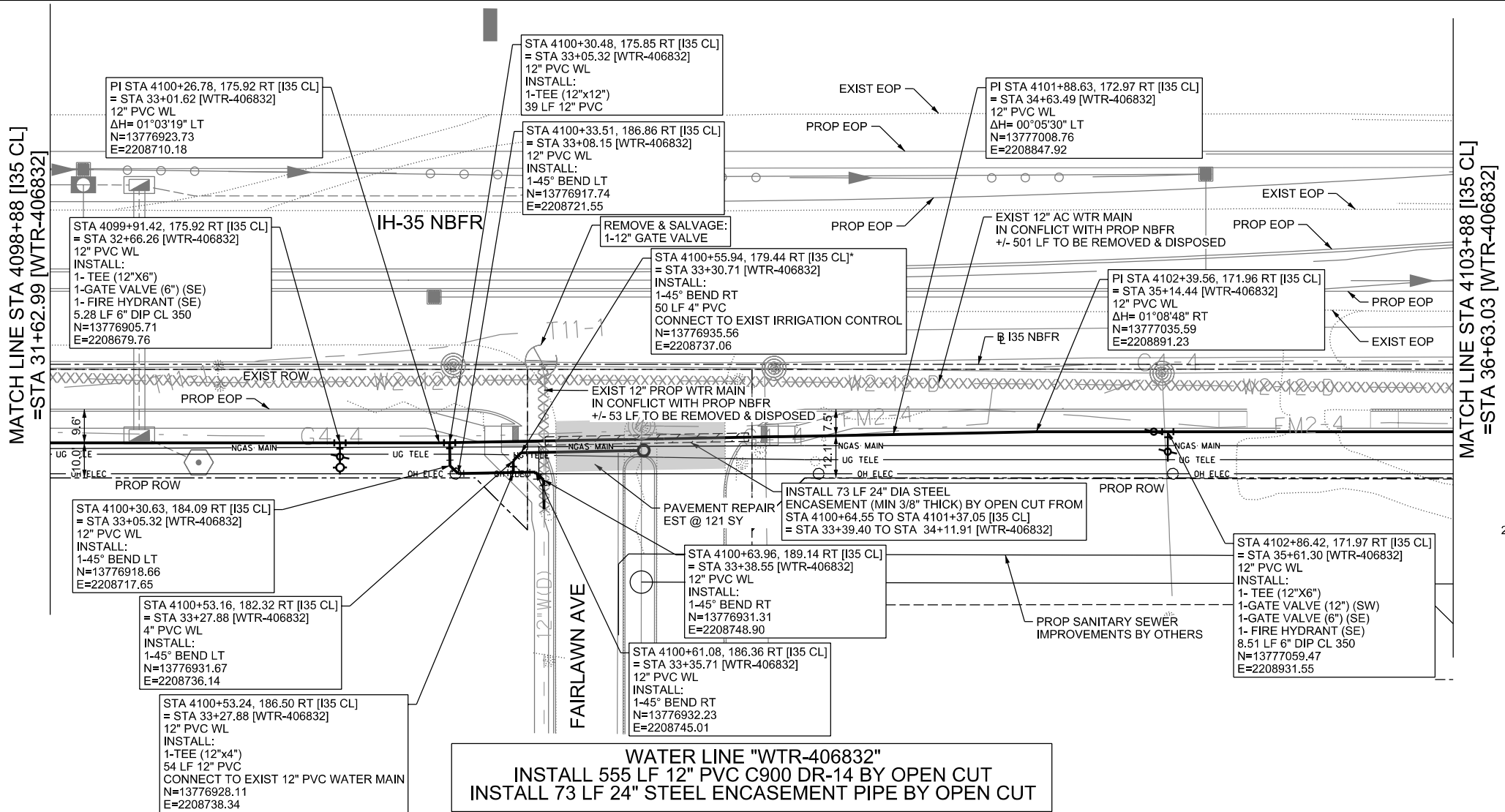
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ih-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4093+88 TO STA 4098+88

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2373
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



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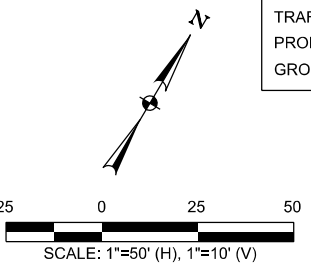
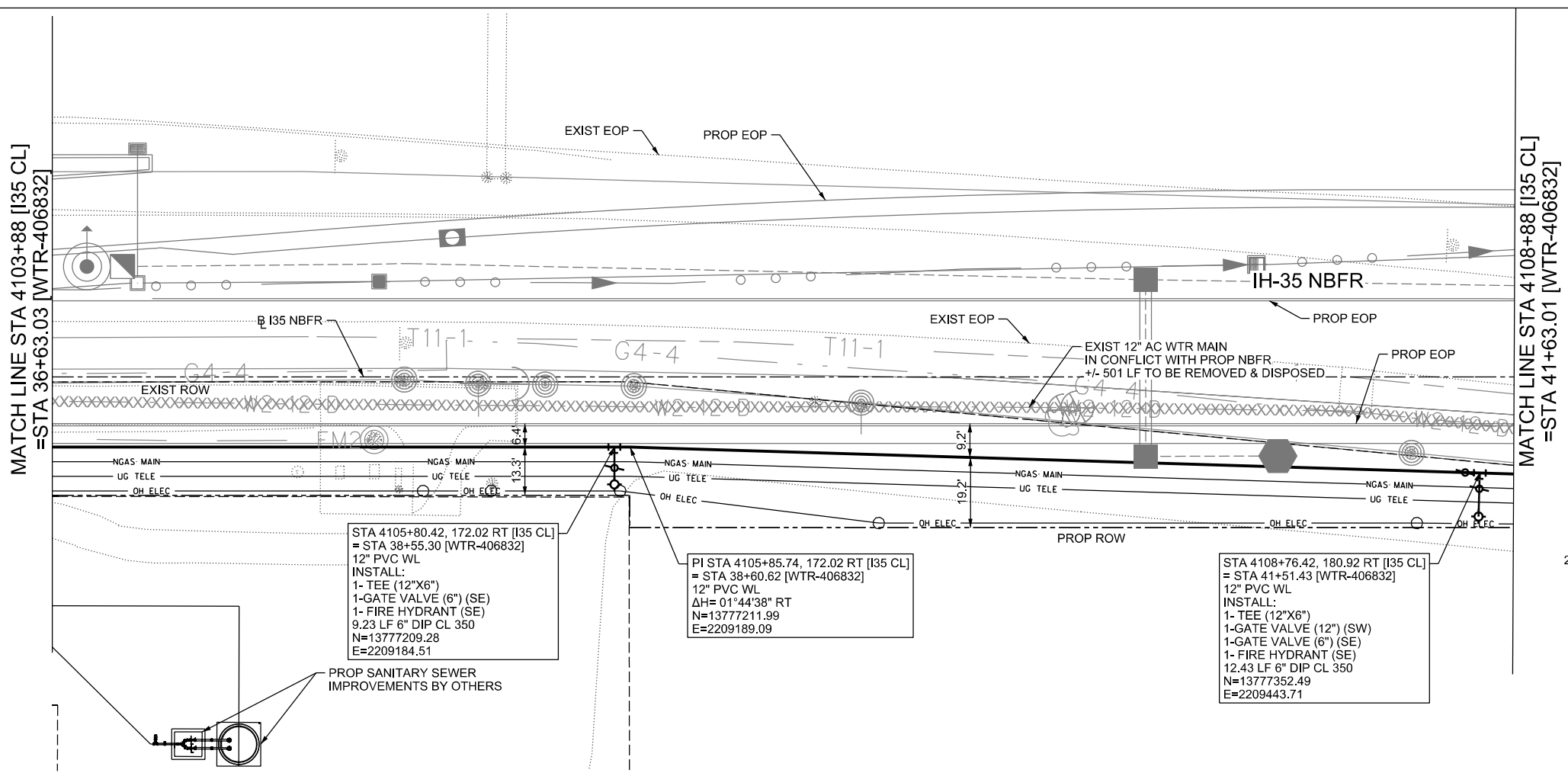
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IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4098+88 TO STA 4103+88

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2374
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

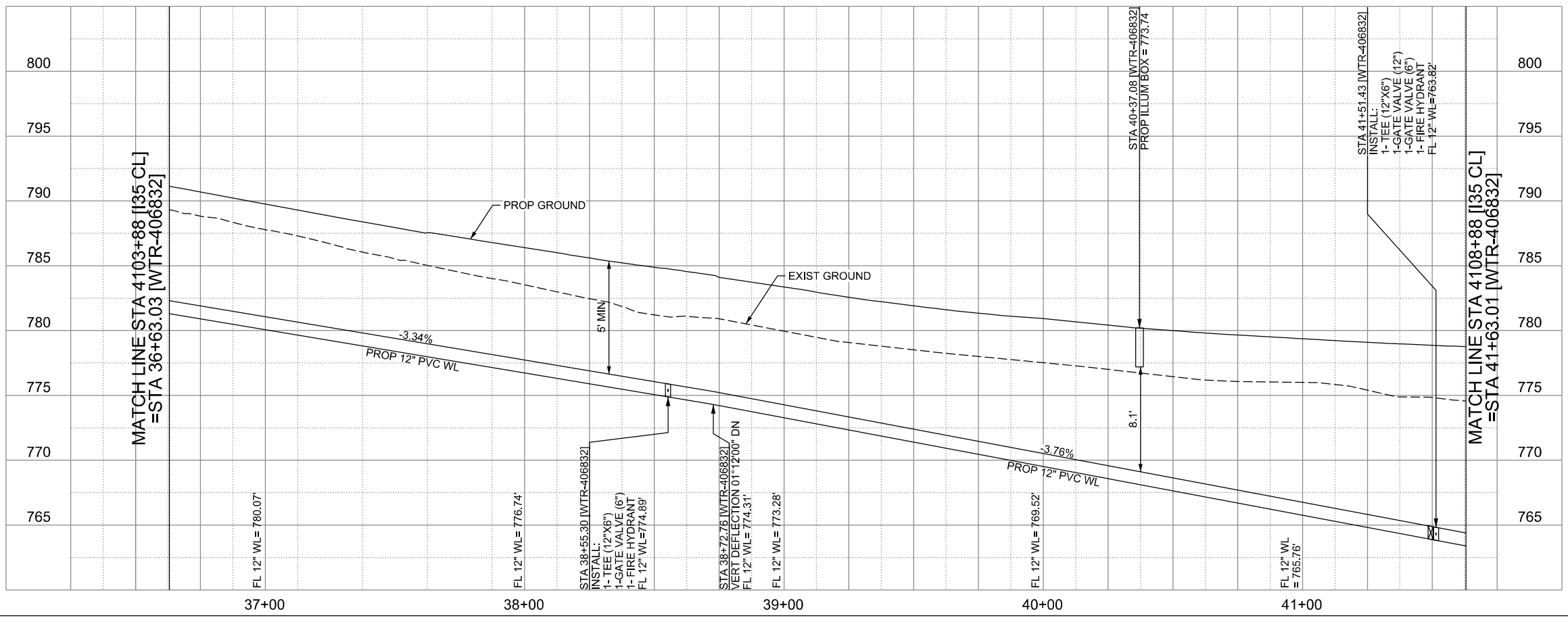


LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

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WATER LINE "WTR-406832"
INSTALL 501 LF 12" PVC C900 DR-14 BY OPEN CUT



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IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4103+88 TO STA 4108+88

Texas Department of Transportation
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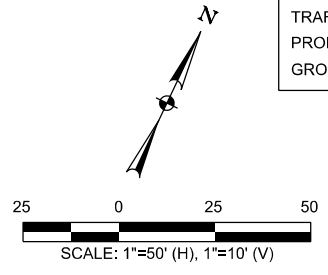
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2375
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

MATCH LINE STA 4108+88 [I35 CL]
=STA 41+63.01 [WTR-406832]

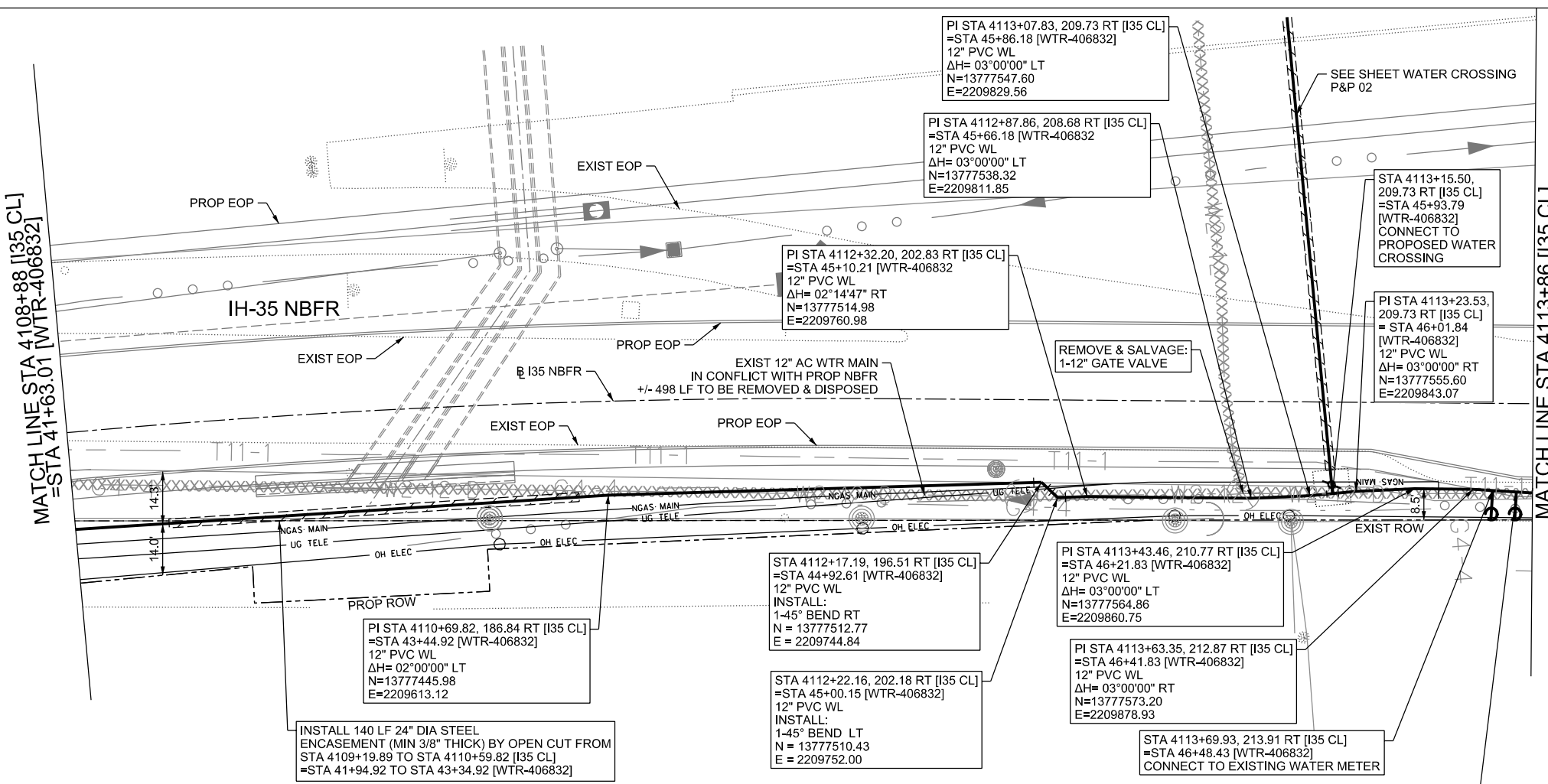
MATCH LINE STA 4113+86 [I35 CL]
=STA 46+62.08 [WTR-406832]

LEGEND

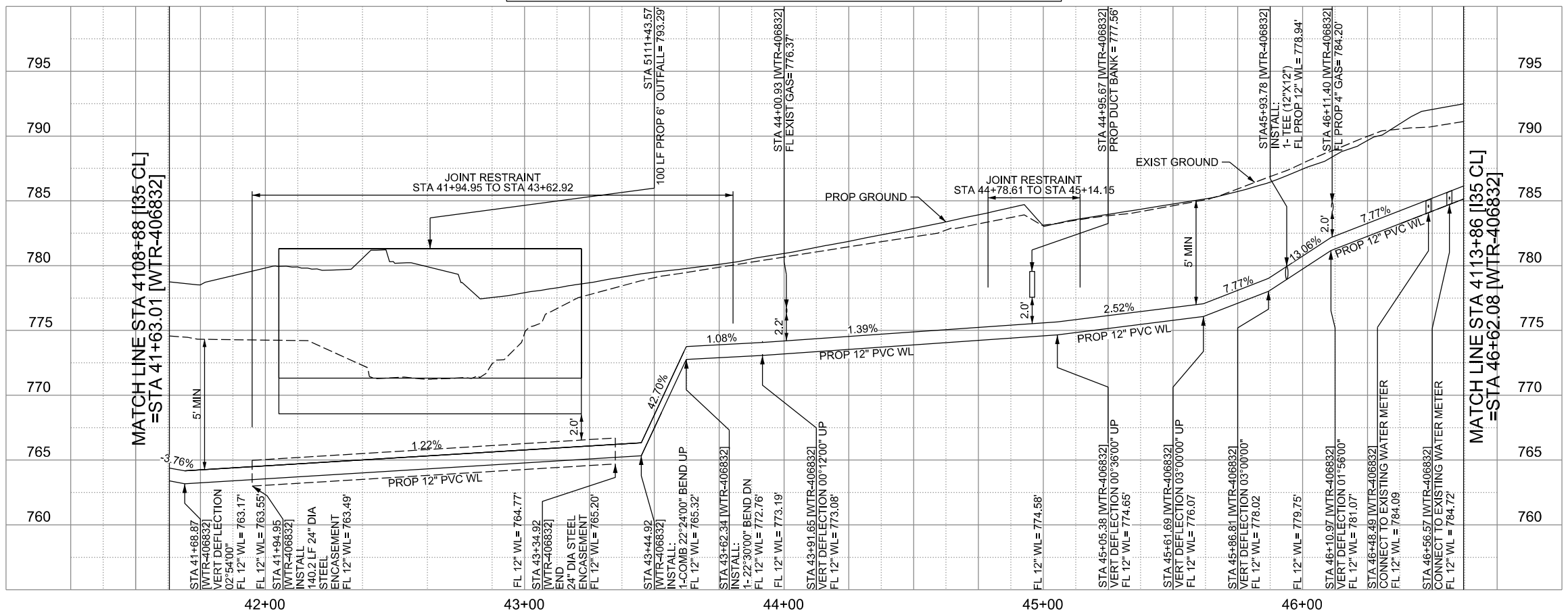
	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.



WATER LINE "WTR-406832"
 INSTALL 500 LF 12" PVC C900 DR-14 BY OPEN CUT
 INSTALL 140 LF 24" STEEL ENCASUREMENT PIPE BY OPEN CUT



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ENGINEERING AND PUBLIC WORKS

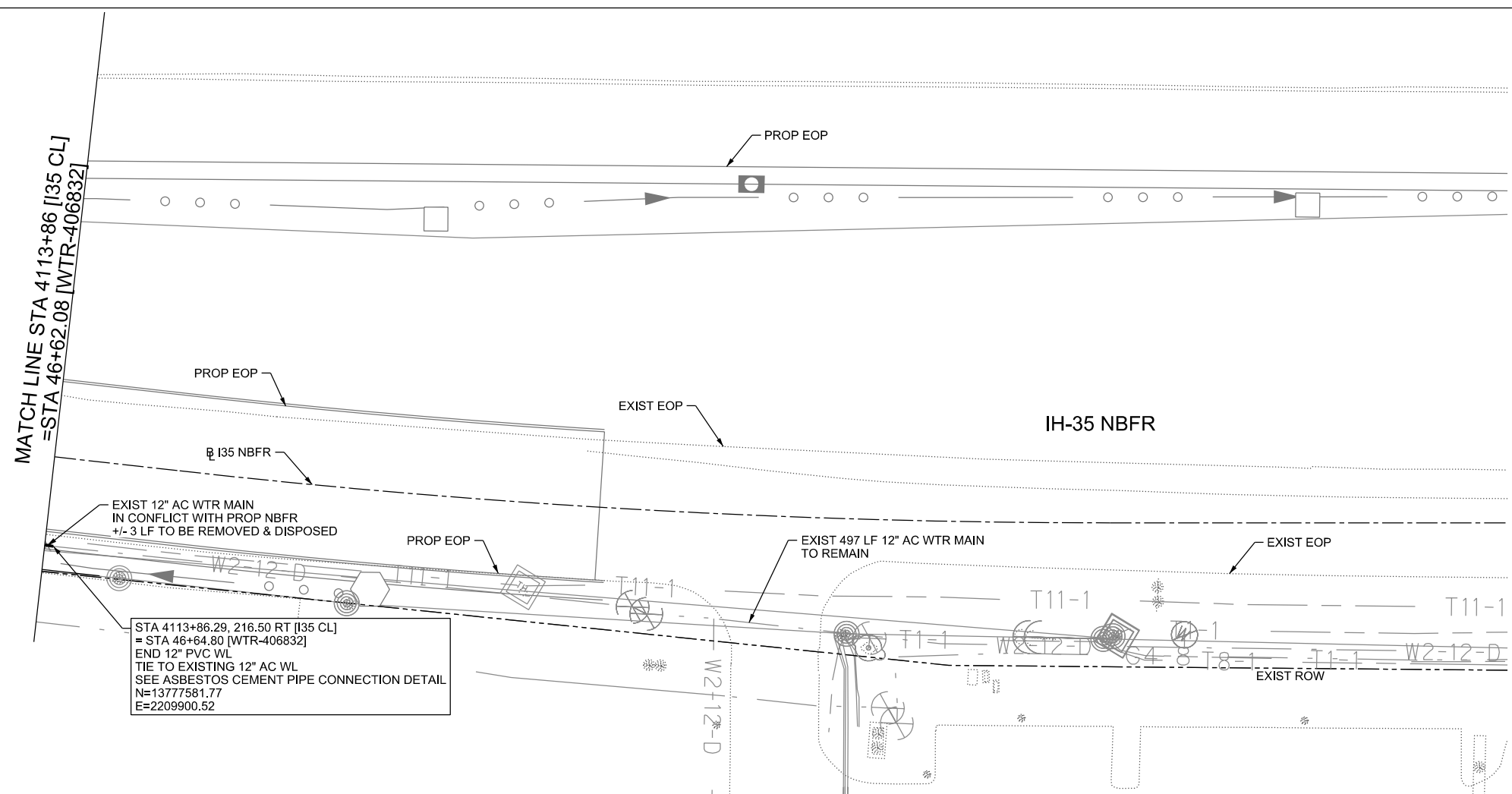
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TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4108+88 TO STA 4113+86

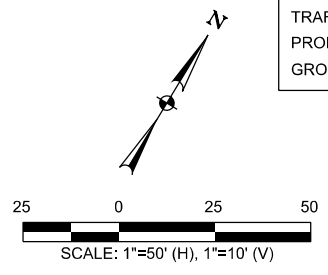
Texas Department of Transportation
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2376
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC

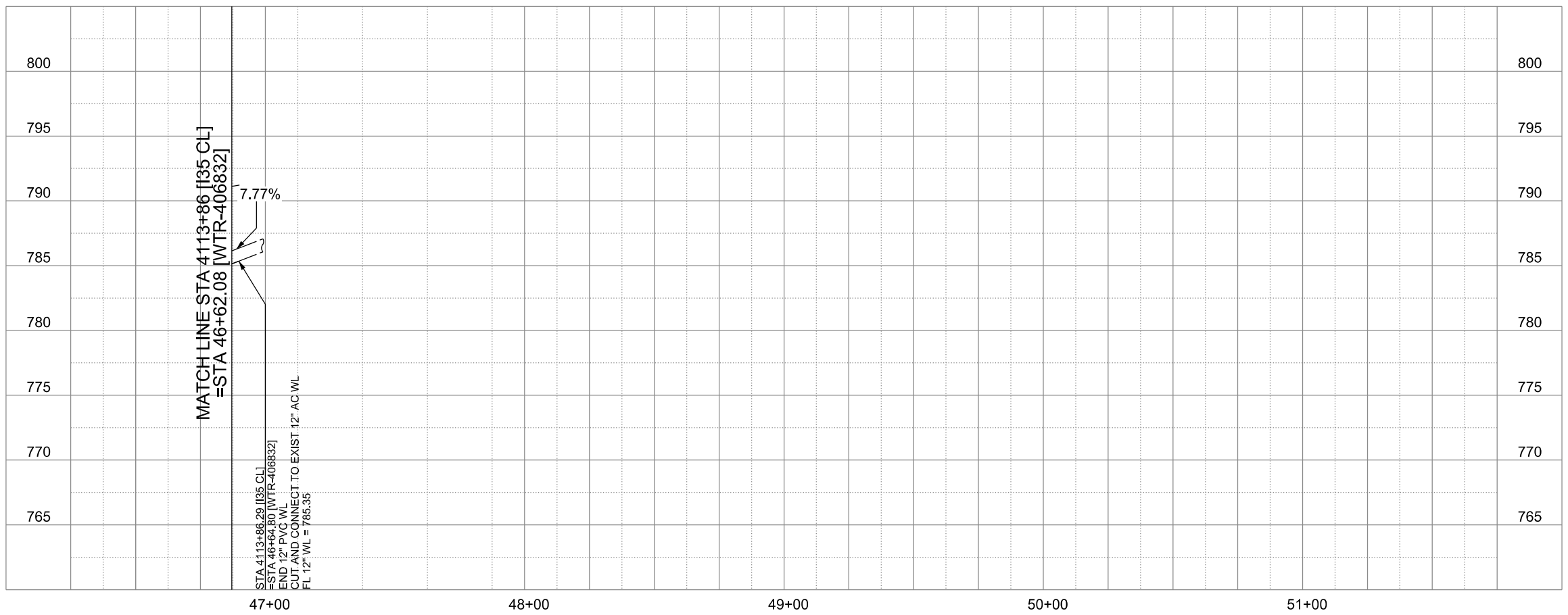


**WATER LINE "WTR-406832"
INSTALL 3 LF PVC C900 DR-14 BY OPEN CUT**

LEGEND	
EXISTING	PROPOSED
GAS LINE	NGAS MAIN
OVERHEAD ELECTRIC	OH ELEC
UNDERGROUND TELECOM	UG TELE
WATER LINE	16" FM
FORCE MAIN LINE	8" SS
SANITARY SEWER LINE	
SANITARY SEWER MH	
STORM SEWER	
FIRE HYDRANT ASSEMBLY	
WATER VALVE	
SERVICE RELAY	
RELOCATE METER	
PRESSURE REDUCING VALVE	
BLOW OFF VALVE	
STEEL ENCASUREMENT	
LUMINAIRES	
TRAFFIC CONDUIT	
TRAFFIC LIGHT	
PROPOSED ELECTRICAL SERVICE	
GROUND BOX	

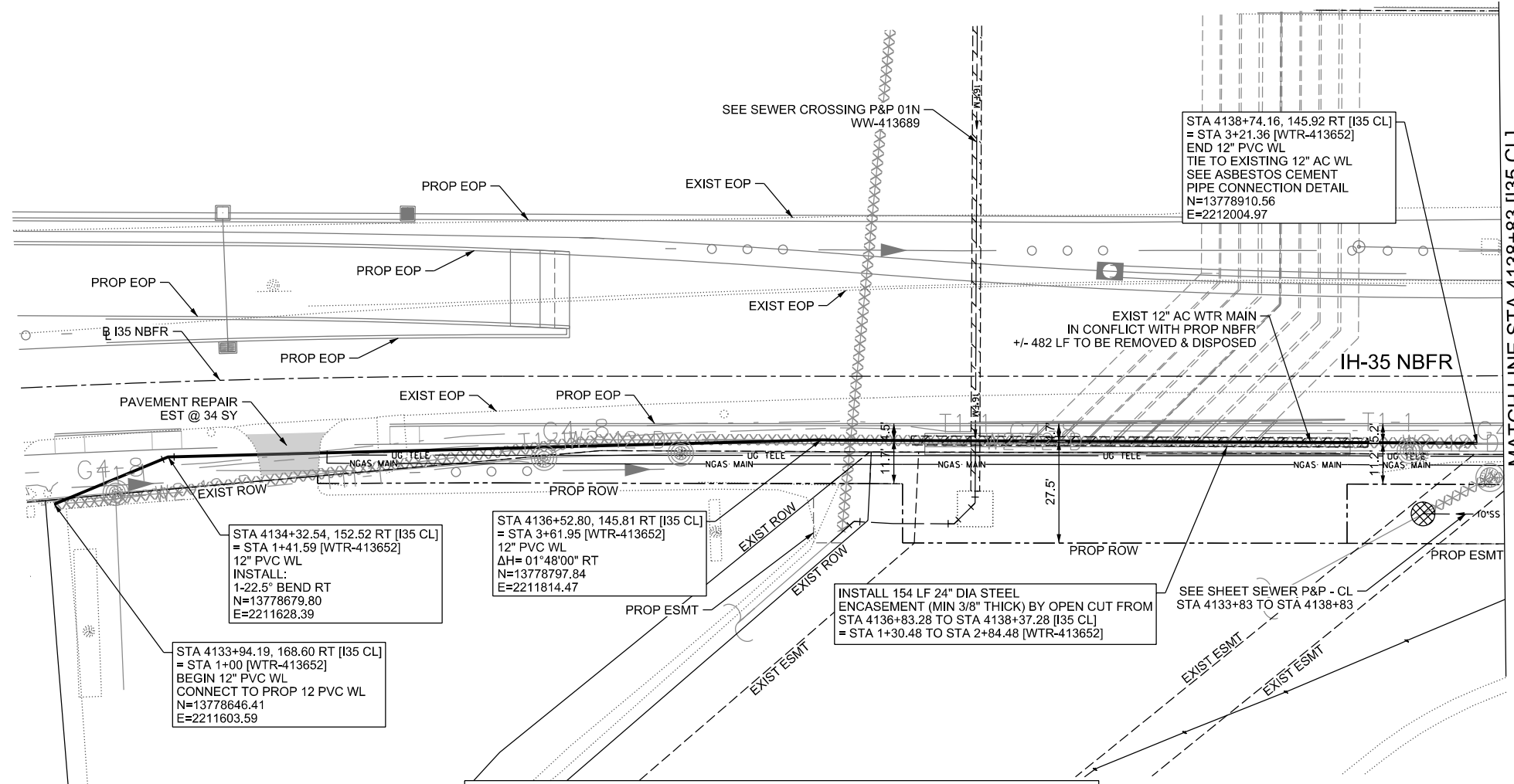


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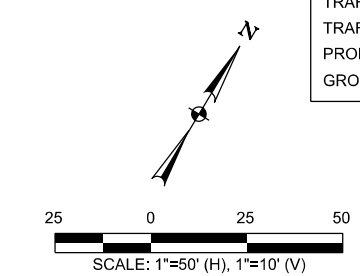
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	IH-35NEX WATER RELOCATION PROJECT
	WATER P&P - CL STA 4113+86 TO STA 4118+86
© 2021	
DSGN: NS, RDL CHECKED: PD, KA DRWN: AT, JG, AI, JB CHECKED: PD, KA	FED. RD. DIV. NO. NO. STATE DIST. SAT
STATE TEXAS	PROJECT NO. CONTROL NO. 0016
SHEET NO. 2377	SECTION NO. 05 JOB NO. 111, ETC



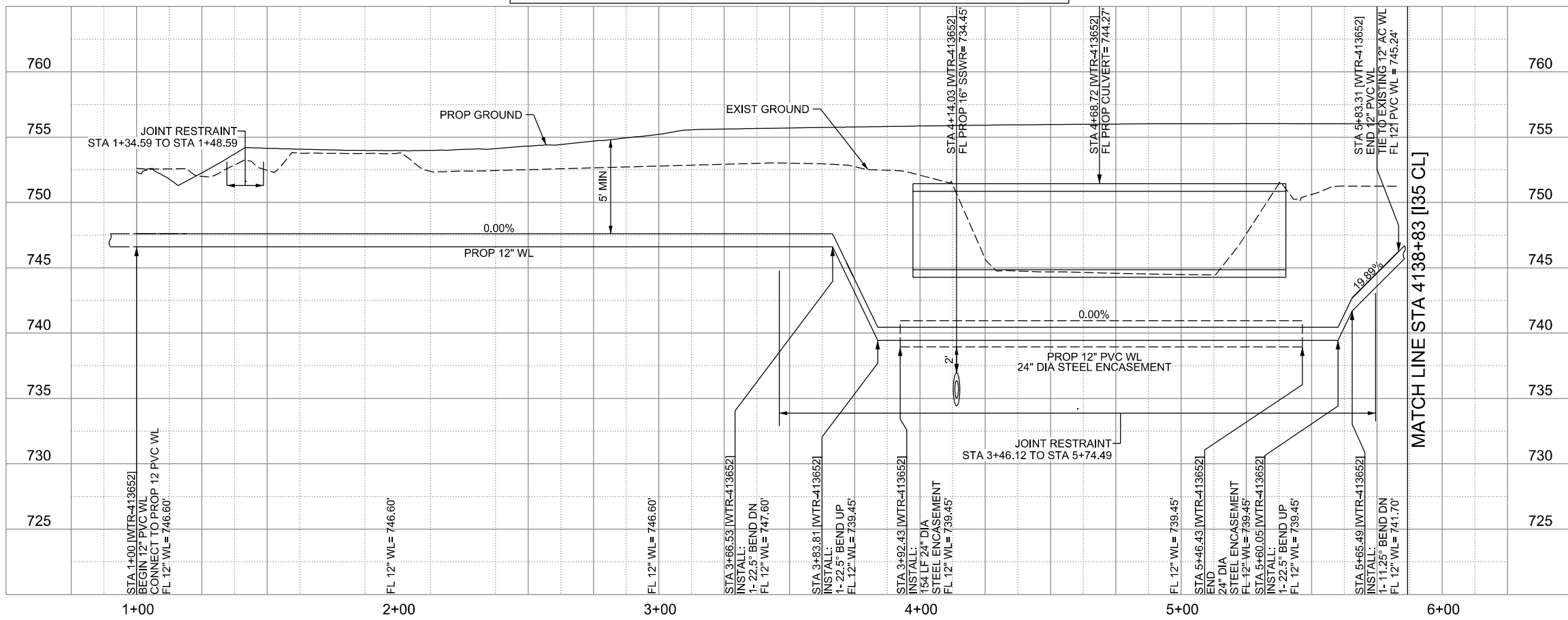
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASEMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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WATER LINE "WTR-413652"
INSTALL 330 LF 12" PVC C900 DR-14 BY OPEN CUT
INSTALL 154 LF 24" STEEL ENCASEMENT PIPE BY OPEN CUT



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

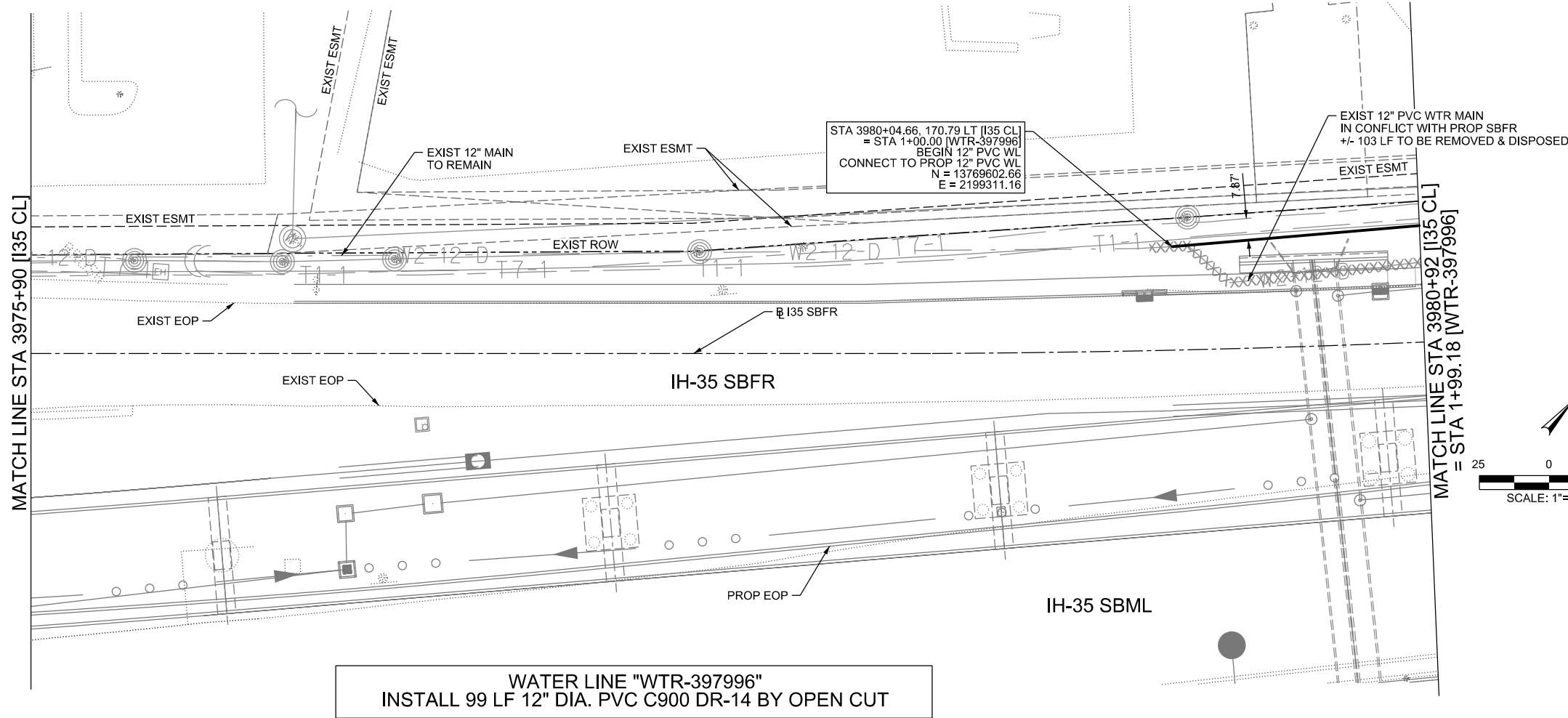
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TBPELS FIRM REGISTRATION #312

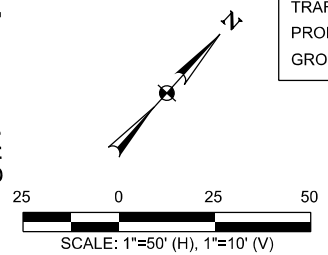
IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4133+83 TO STA 4138+83

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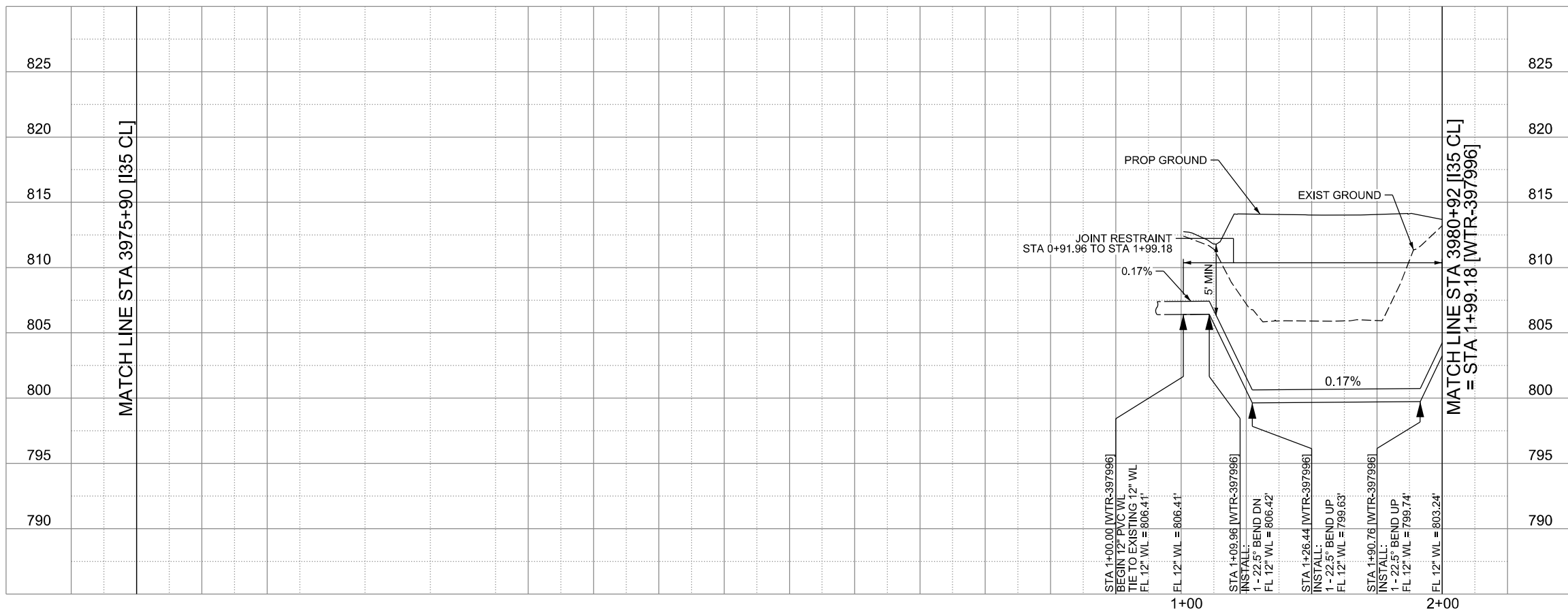
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2378
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



LEGEND		
	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

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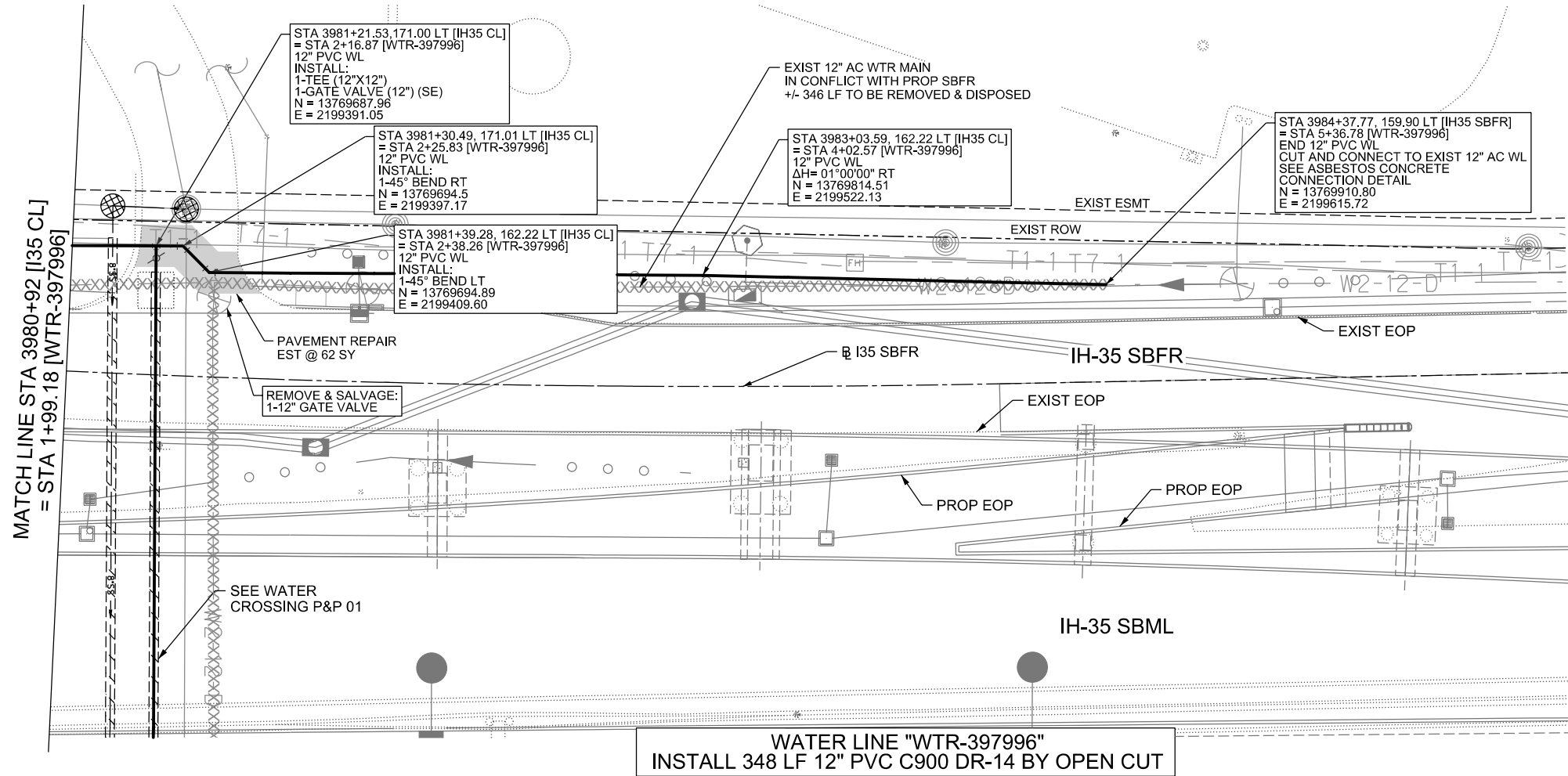
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IH-35NEX
WATER
RELOCATION
PROJECT

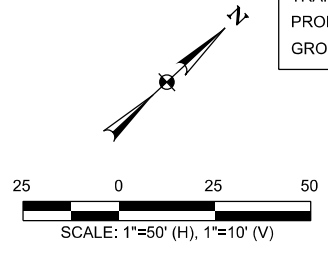
WATER P&P - CL
STA 3975+90 TO
STA 3980+92

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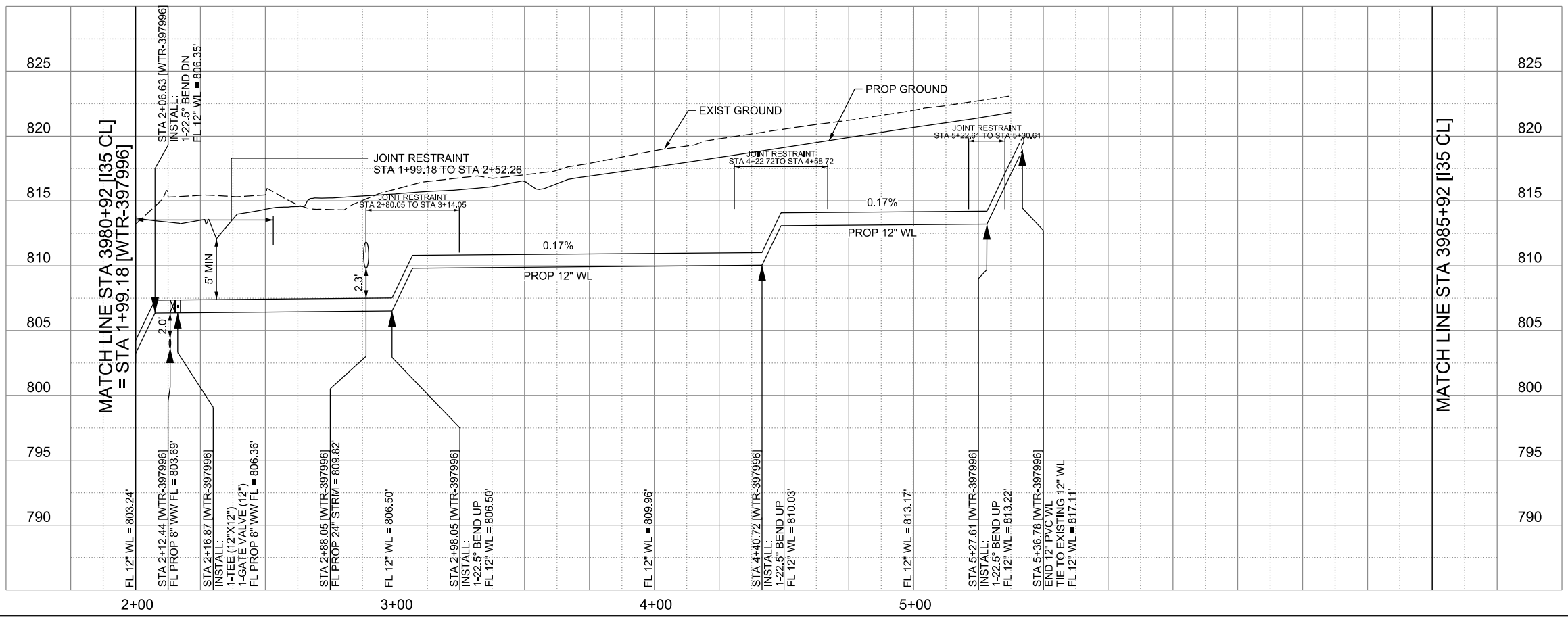
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CHECKED: PD, KA	NO.	TEXAS		2379
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



LEGEND		EXISTING	PROPOSED
GAS LINE		CA-4	NGAS MAIN
OVERHEAD ELECTRIC			OH ELEC
UNDERGROUND TELECOM		T8-01	UG TELE
WATER LINE		W2-12-D	
FORCE MAIN LINE			16" FM
SANITARY SEWER LINE		WW5-12-D	8" SS
SANITARY SEWER MH			
STORM SEWER			
FIRE HYDRANT ASSEMBLY			
WATER VALVE			
SERVICE RELAY			
RELOCATE METER			
PRESSURE REDUCING VALVE			
BLOW OFF VALVE			
STEEL ENCASUREMENT			
LUMINAIRES			
TRAFFIC CONDUIT			
TRAFFIC LIGHT			
PROPOSED ELECTRICAL SERVICE			
GROUND BOX			



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

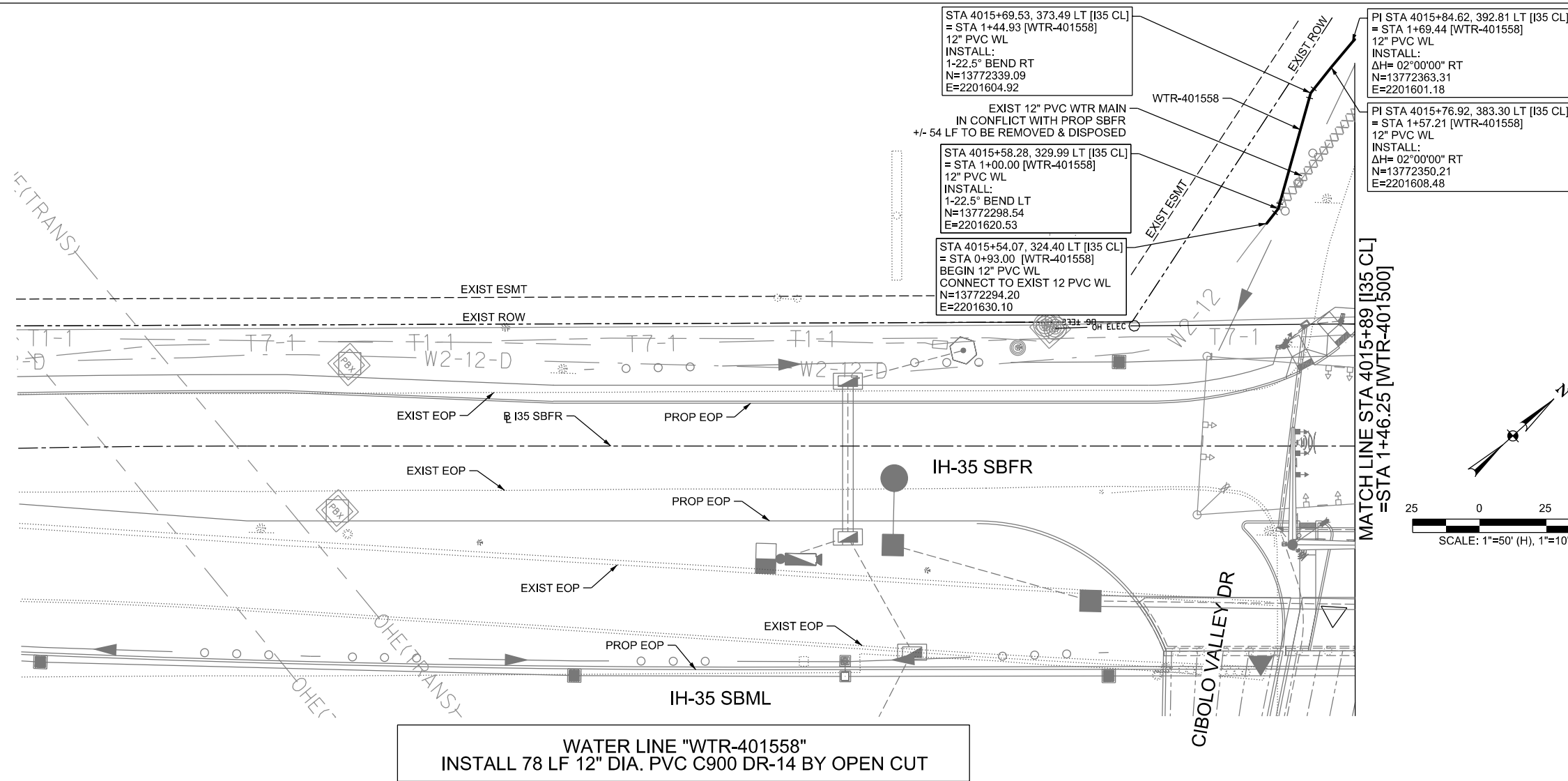
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TBPELS FIRM REGISTRATION #312

IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 3980+92 TO STA 3985+92

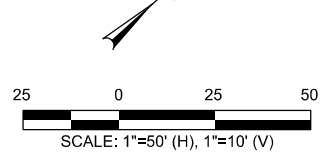
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2380
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC

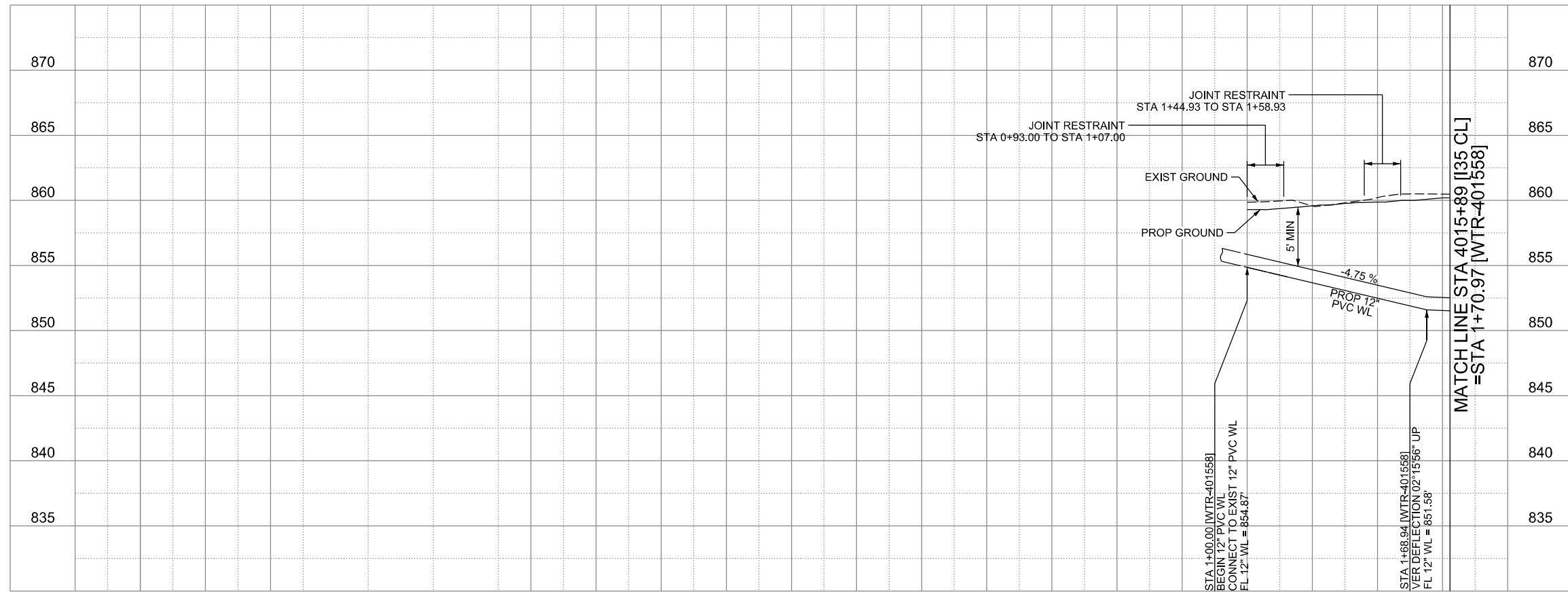


**WATER LINE "WTR-401558"
INSTALL 78 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**

LEGEND		
	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

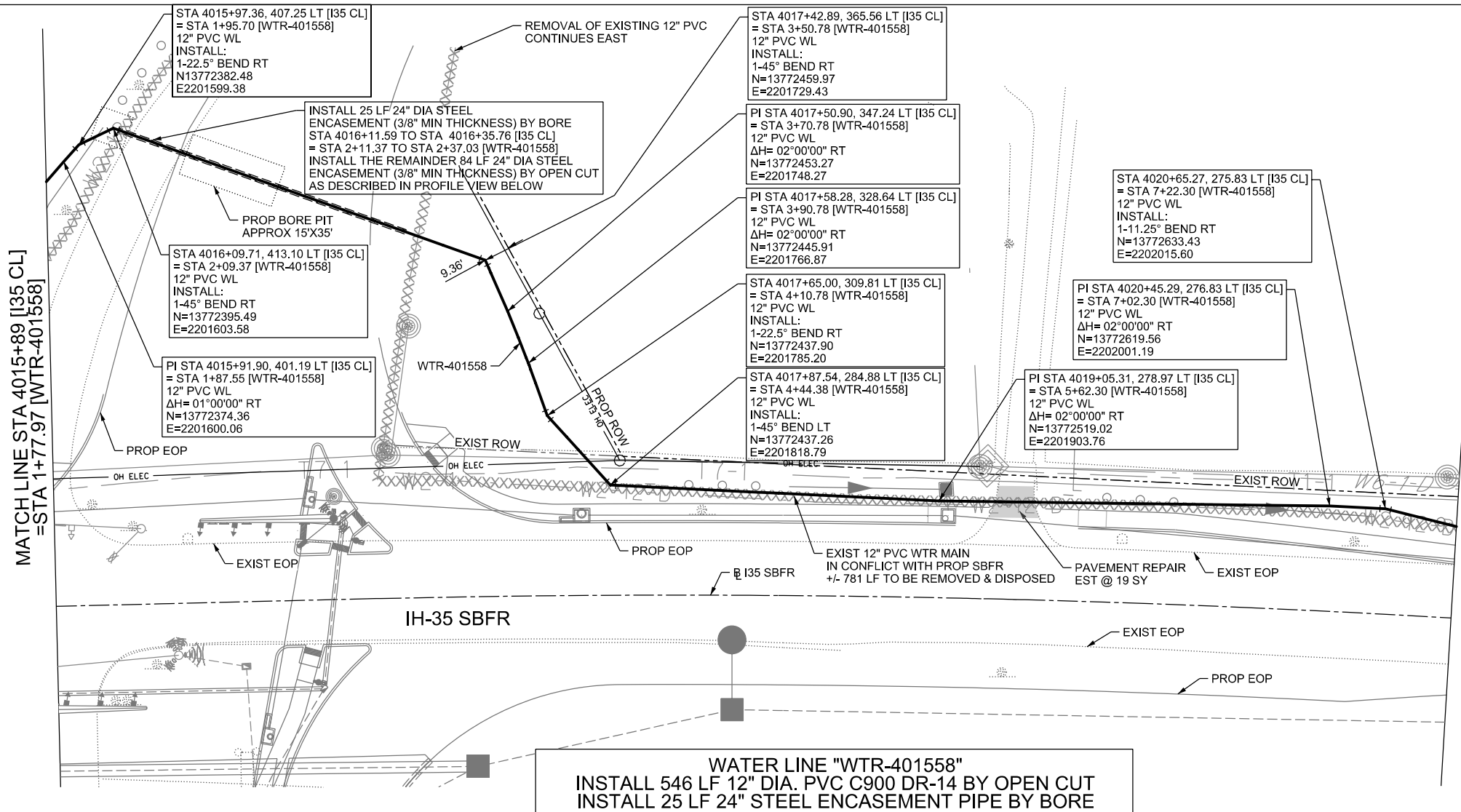


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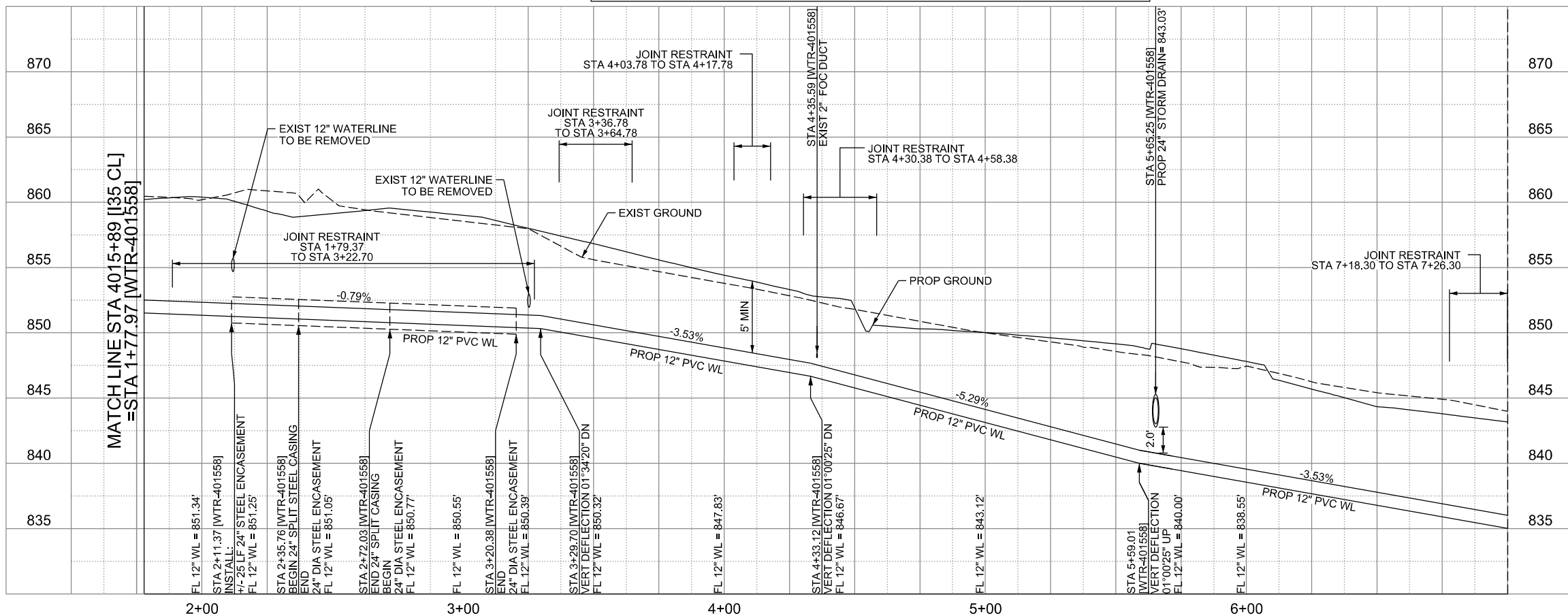


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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
SCHERTZ COMMUNITY • SERVICE • OPPORTUNITY			IH-35NEX WATER RELOCATION PROJECT		
halff TBPELS FIRM REGISTRATION #312			WATER P&P - CL STA 4010+89 TO STA 4015+89		
Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		2381	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



WATER LINE "WTR-401558"
INSTALL 546 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT
INSTALL 25 LF 24" STEEL ENCASEMENT PIPE BY BORE



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CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

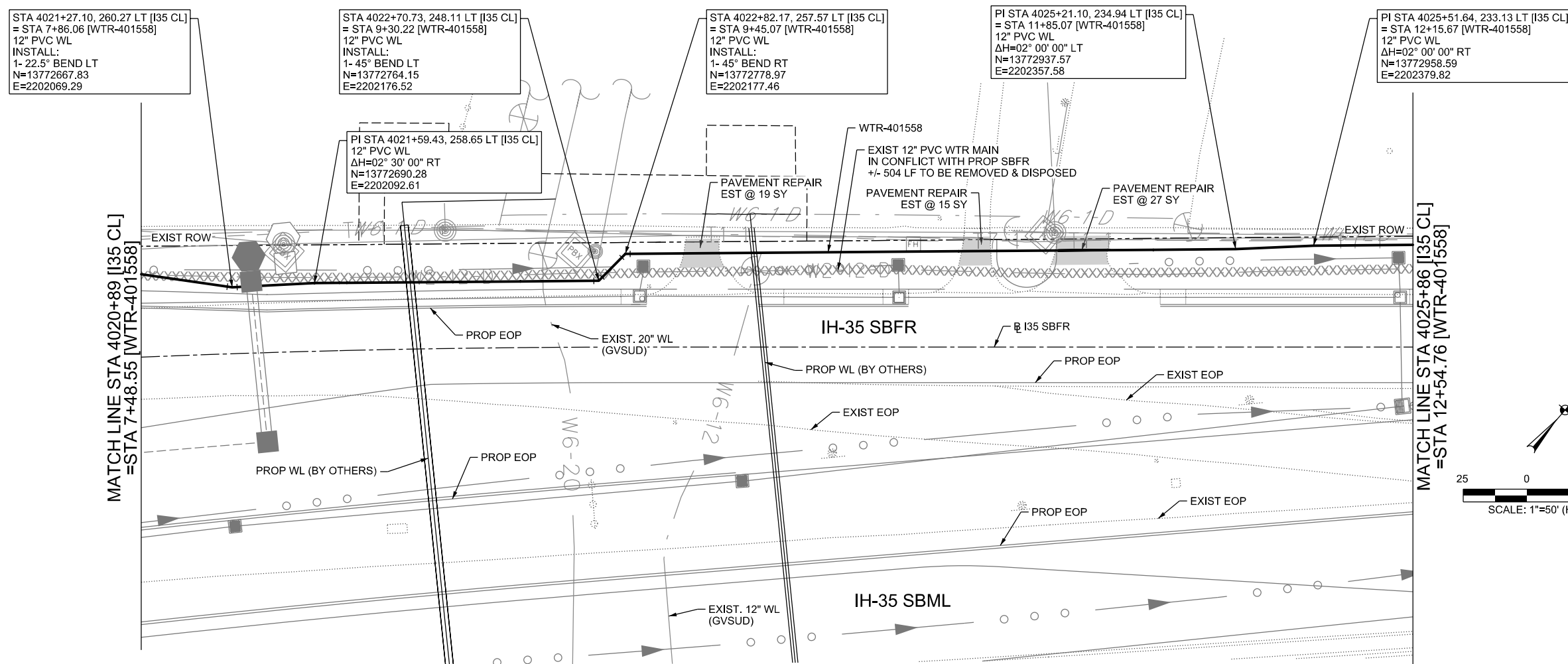
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ih-35NEX WATER RELOCATION PROJECT
 WATER P&P - CL
 STA 4015+89 TO STA 4020+89

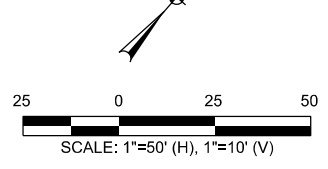
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2382
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



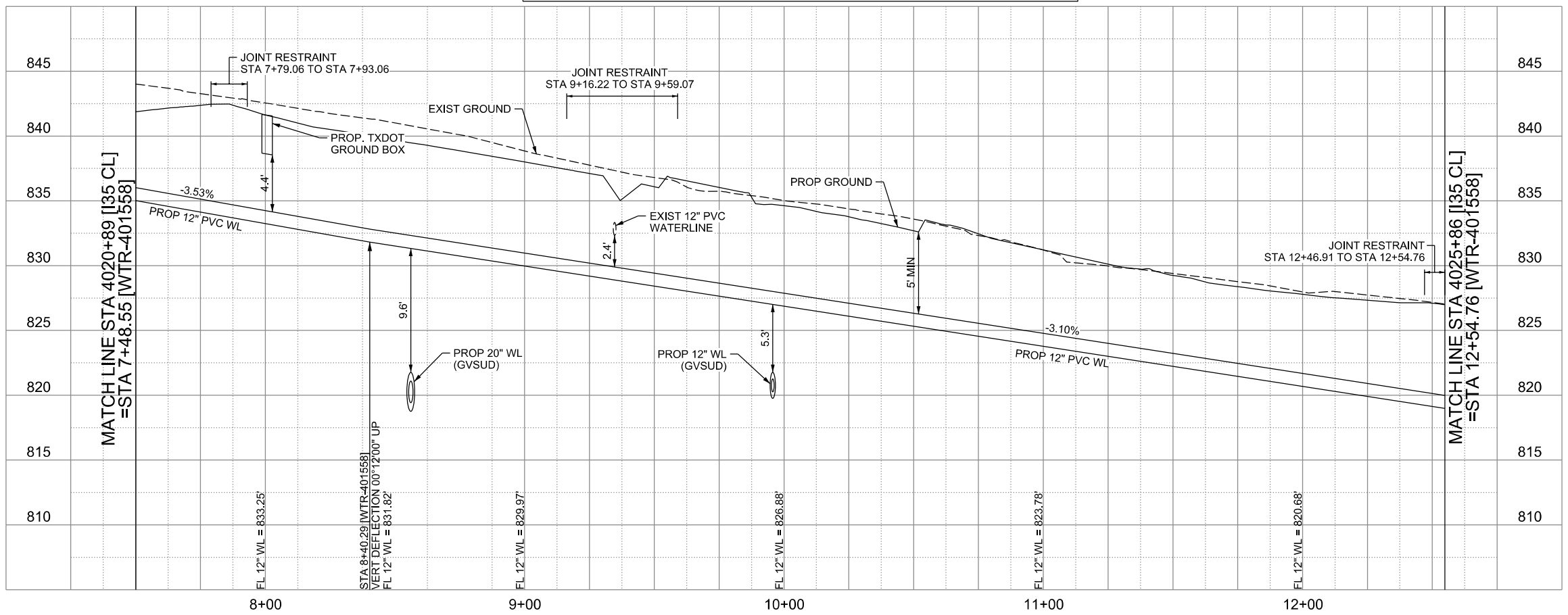
LEGEND

	EXISTING	PROPOSED
GAS LINE	C4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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WATER LINE "WTR-401558" INSTALL 507 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT



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ENGINEERING AND PUBLIC WORKS

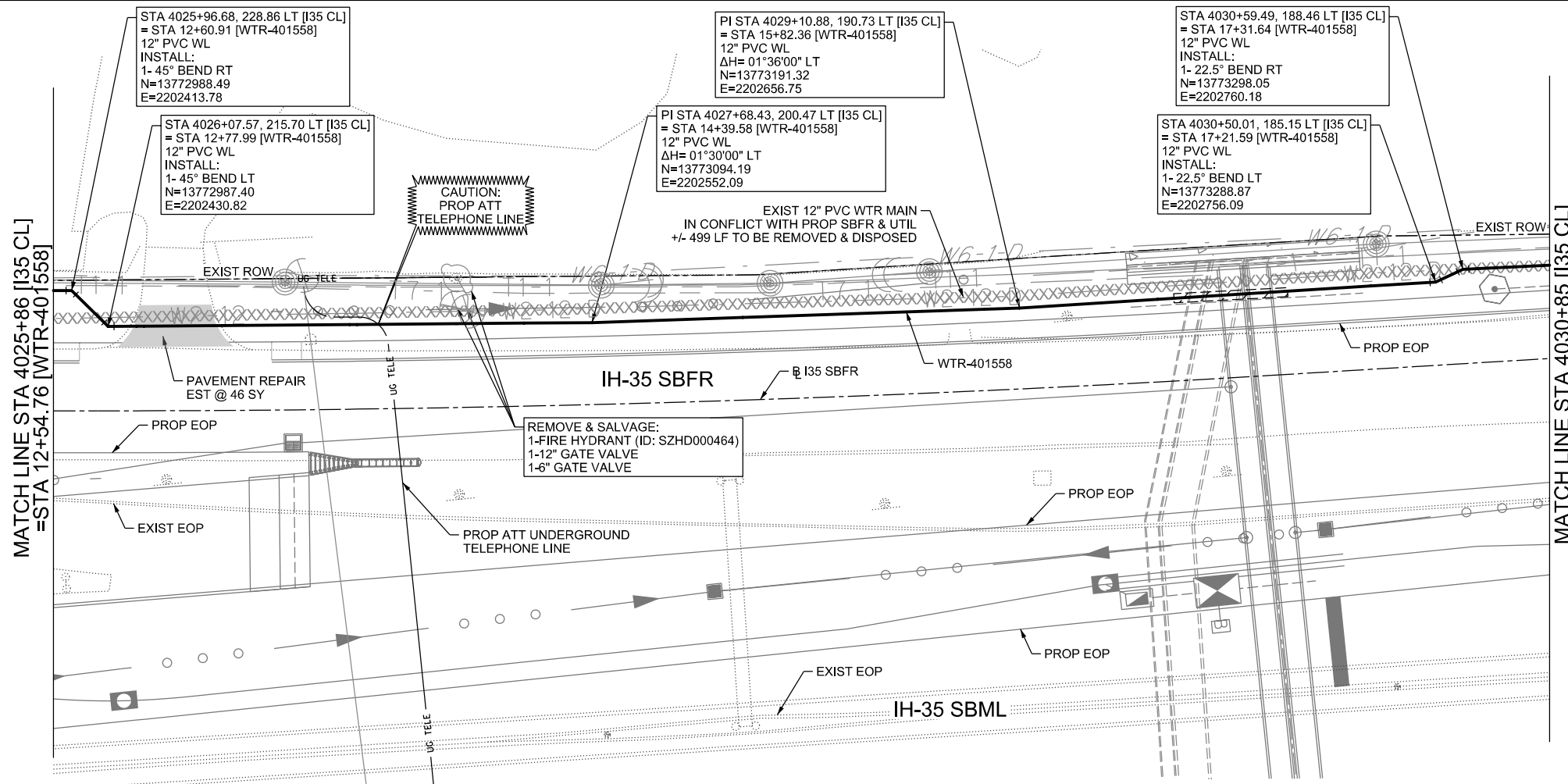
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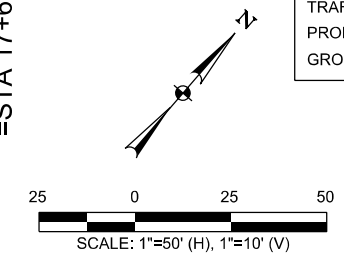
IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4020+89 TO STA 4025+86

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2383
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

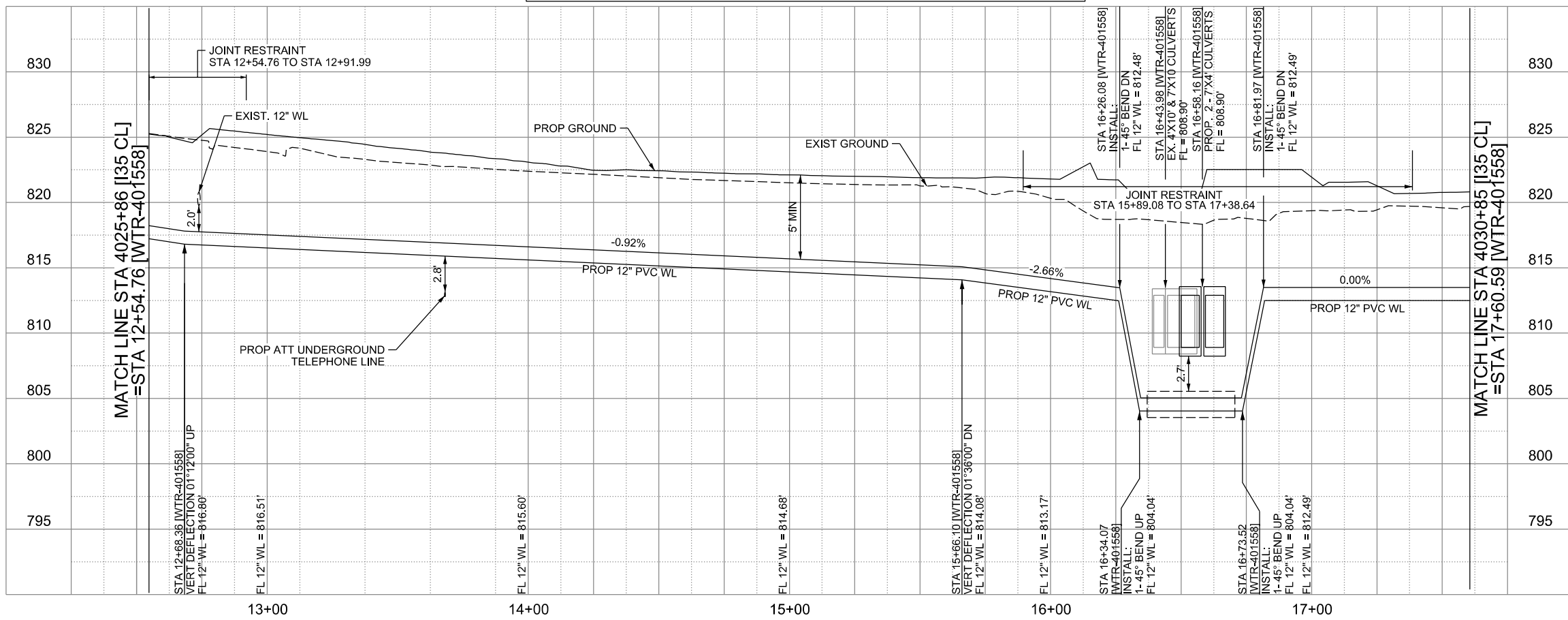


LEGEND		
	EXISTING	PROPOSED
GAS LINE	— G4-4 —	— NGAS MAIN —
OVERHEAD ELECTRIC	—	— OH ELEC —
UNDERGROUND TELECOM	— T8-01 —	— UG TELE —
WATER MAIN	— W2-12-D —	— 16" FM —
FORCE MAIN LINE	—	— 8" SS —
SANITARY SEWER LINE	— WW5-12-D —	—
SANITARY SEWER MH	⊙	⊙
STORM SEWER	—	—
FIRE HYDRANT ASSEMBLY	⊙	⊙
WATER VALVE	⊙	⊙
SERVICE RELAY	⊙	⊙
RELOCATE METER	⊙	⊙
PRESSURE REDUCING VALVE	⊙	⊙
BLOW OFF VALVE	⊙	⊙
STEEL ENCASUREMENT	—	—
LUMINAIRES	⊙	⊙
TRAFFIC CONDUIT	—	—
TRAFFIC LIGHT	⊙	⊙
PROPOSED ELECTRICAL SERVICE	—	—
GROUND BOX	⊙	⊙



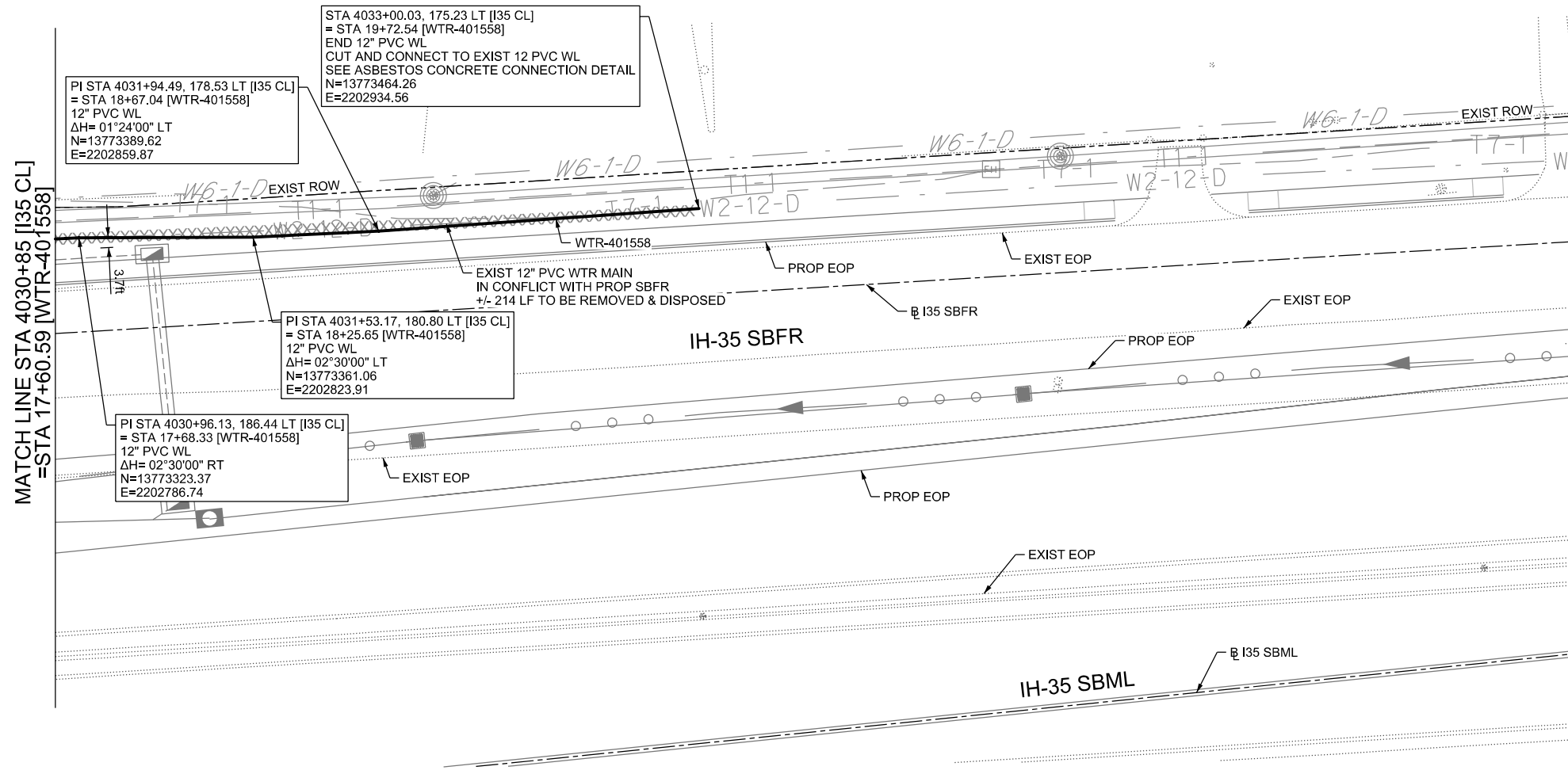
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

**WATER LINE "WTR-401558"
INSTALL 505 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**

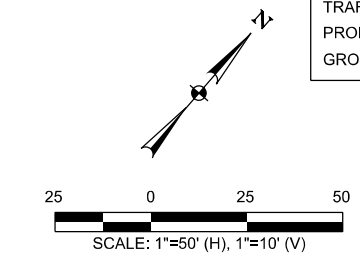


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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS		SCHERTZ COMMUNITY • SERVICE • OPPORTUNITY		halff TBPELS FIRM REGISTRATION #312	
IH-35NEX WATER RELOCATION PROJECT		WATER P&P - CL STA 4025+86 TO STA 4030+85			
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		2384	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

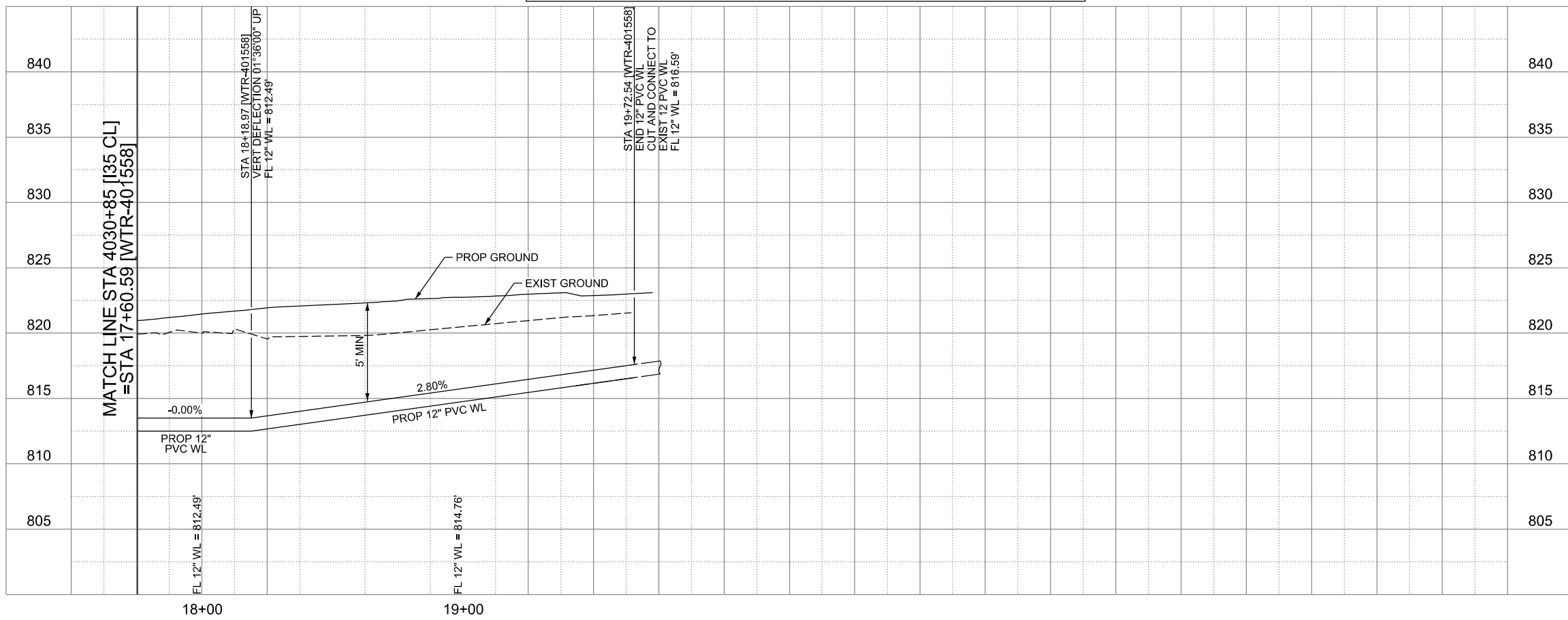


LEGEND		
	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER METER	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



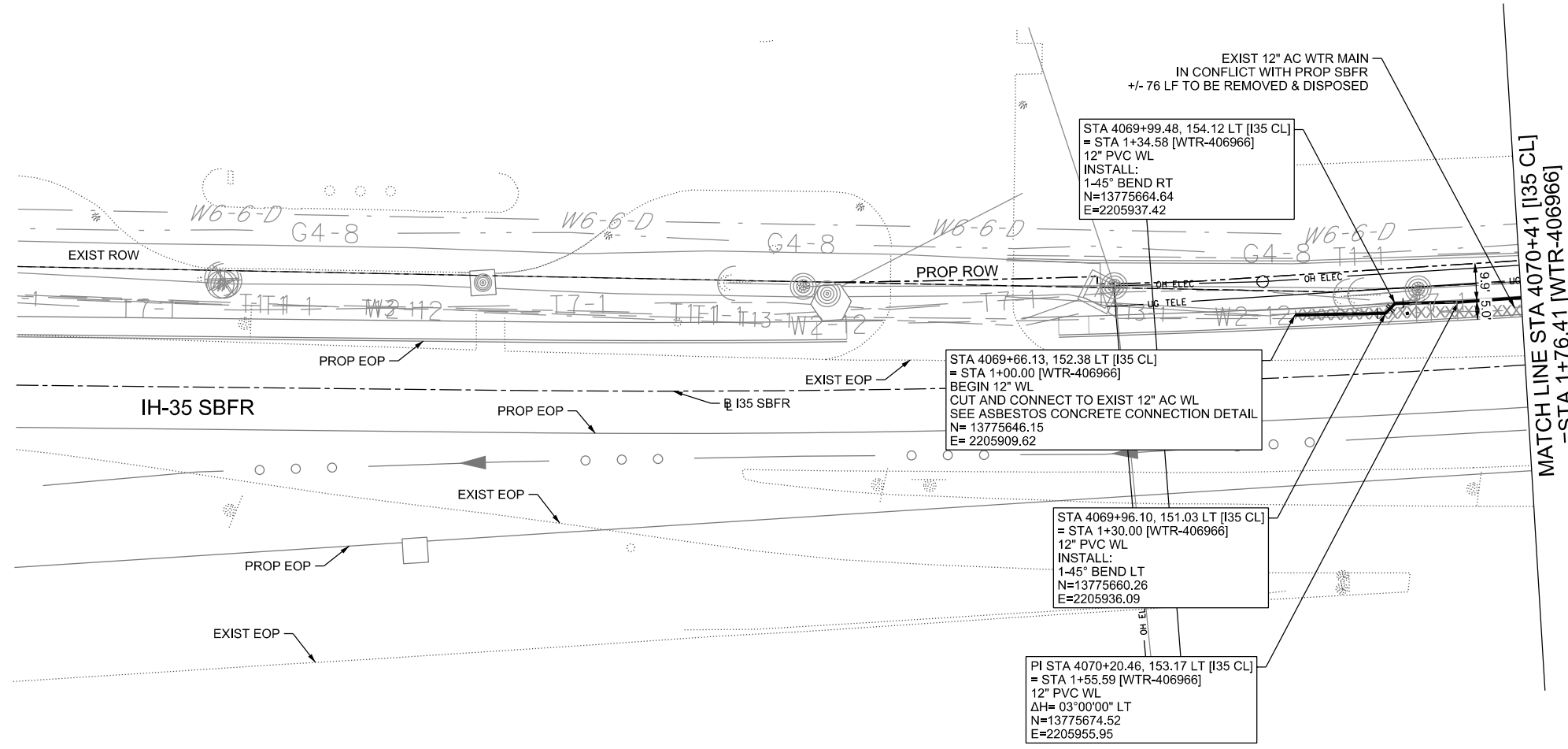
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

**WATER LINE "WTR-401558"
INSTALL 214 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**



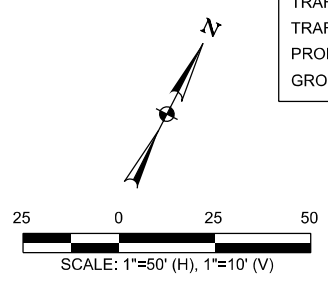
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE, 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	
	IH-35NEX WATER RELOCATION PROJECT
	WATER P&P - CL STA STA 4030+85 TO STA 4035+86
Texas Department of Transportation © 2021	
DSGN: NS, RDL CHECKED: PD, KA DRWN: AT, JG, AI, JB CHECKED: PD, KA	FED. RD. DIV. NO. NO. TEXAS STATE DIST. SAT COUNTY COMAL CONTROL NO. 0016 SECTION NO. 05 JOB NO. 111, ETC
PROJECT NO.	SHEET NO. 2385



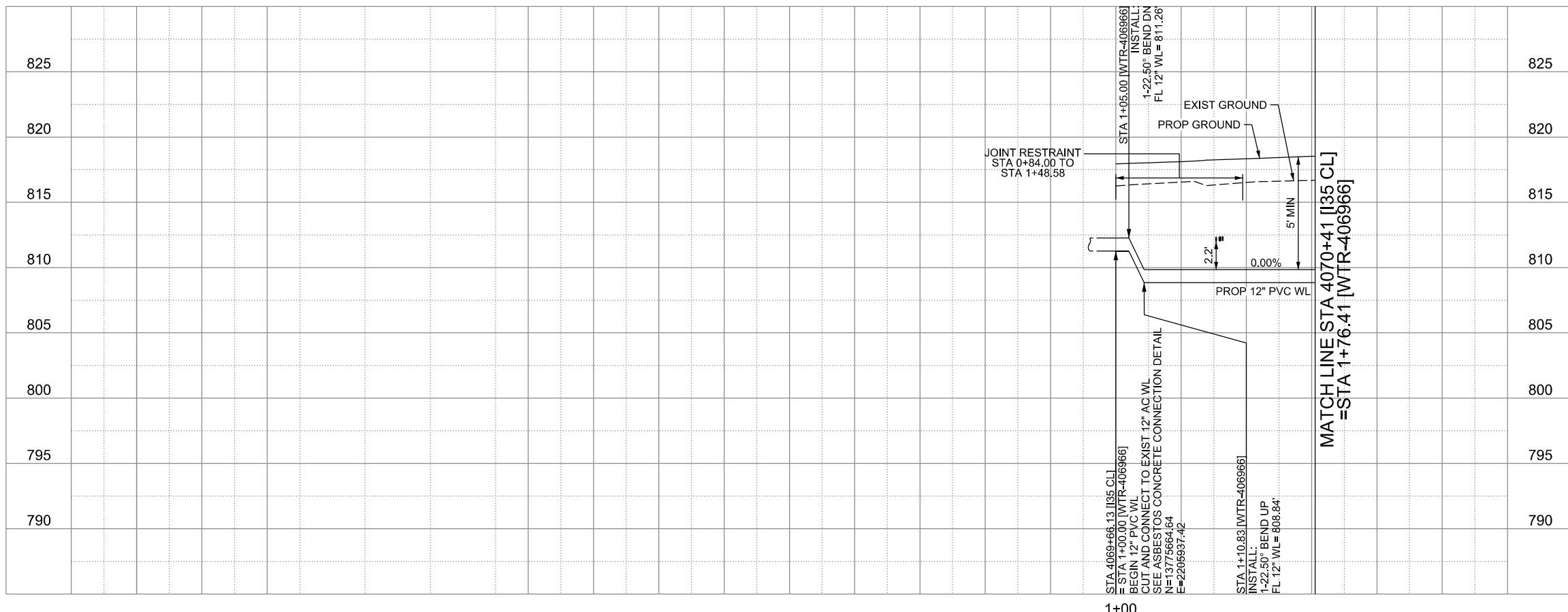
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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**WATER LINE "WTR-406966"
INSTALL 77 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**



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TBPELS FIRM REGISTRATION #312

**IH-35NEX
WATER
RELOCATION
PROJECT**

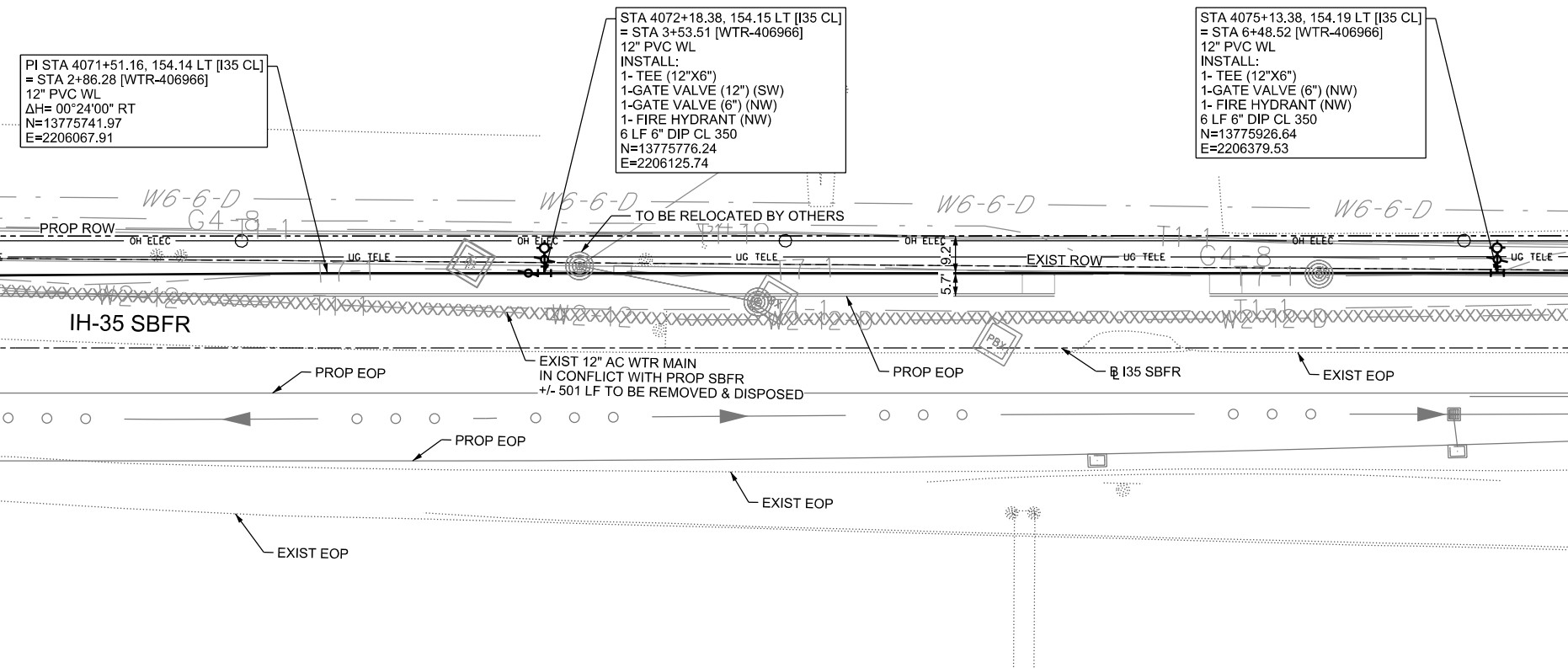
WATER P&P - CL
STA 4065+42 TO
STA 4070+41

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2386
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

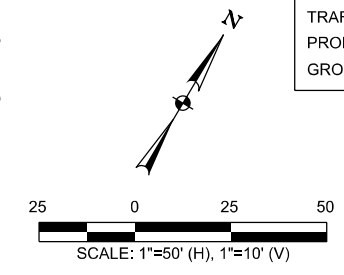
MATCH LINE STA 4070+41 [I35 CL]
=STA 1+76.41 [WTR-406966]

MATCH LINE STA 4075+41 [I35 CL]
=STA 6+76.35 [WTR-406966]



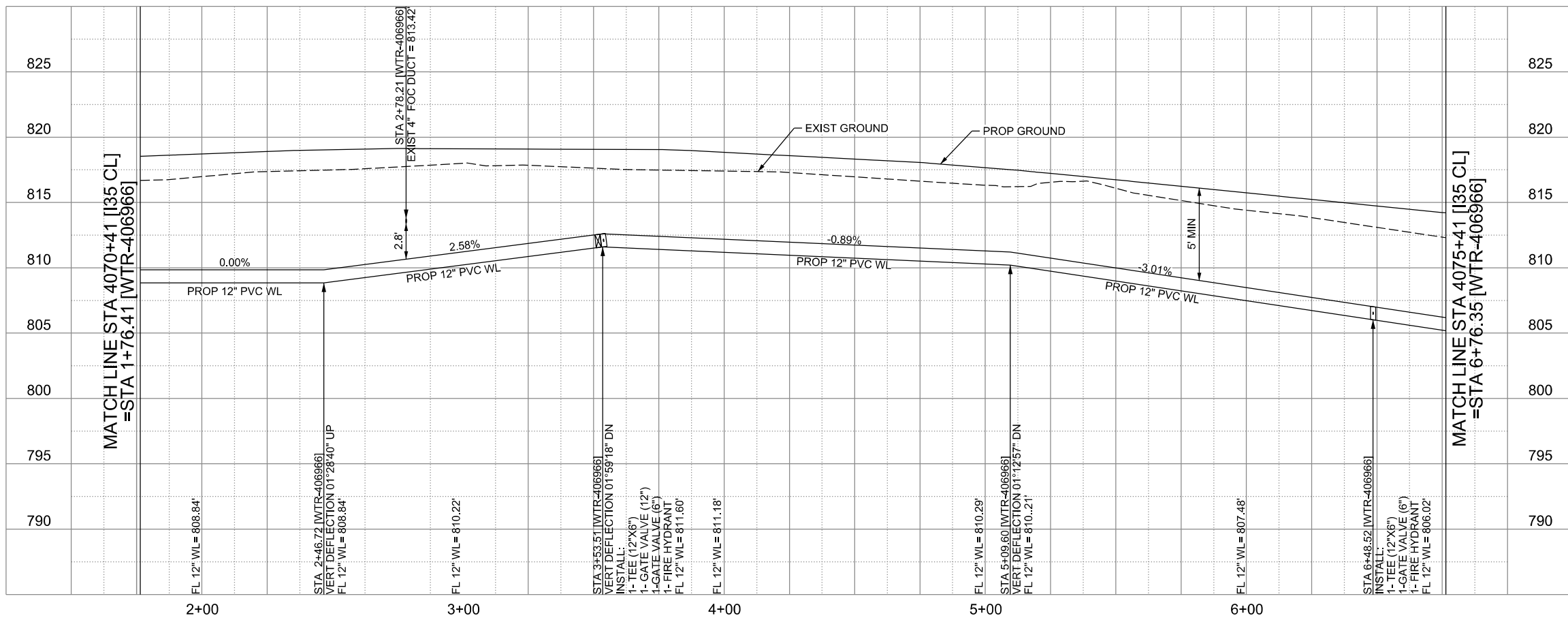
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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WATER LINE "WTR-406966"
INSTALL 500 LF 12" DIA. PVC C900 DR-14 (WL) BY OPEN CUT



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

SCHERTZ
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TBPELS FIRM REGISTRATION #312

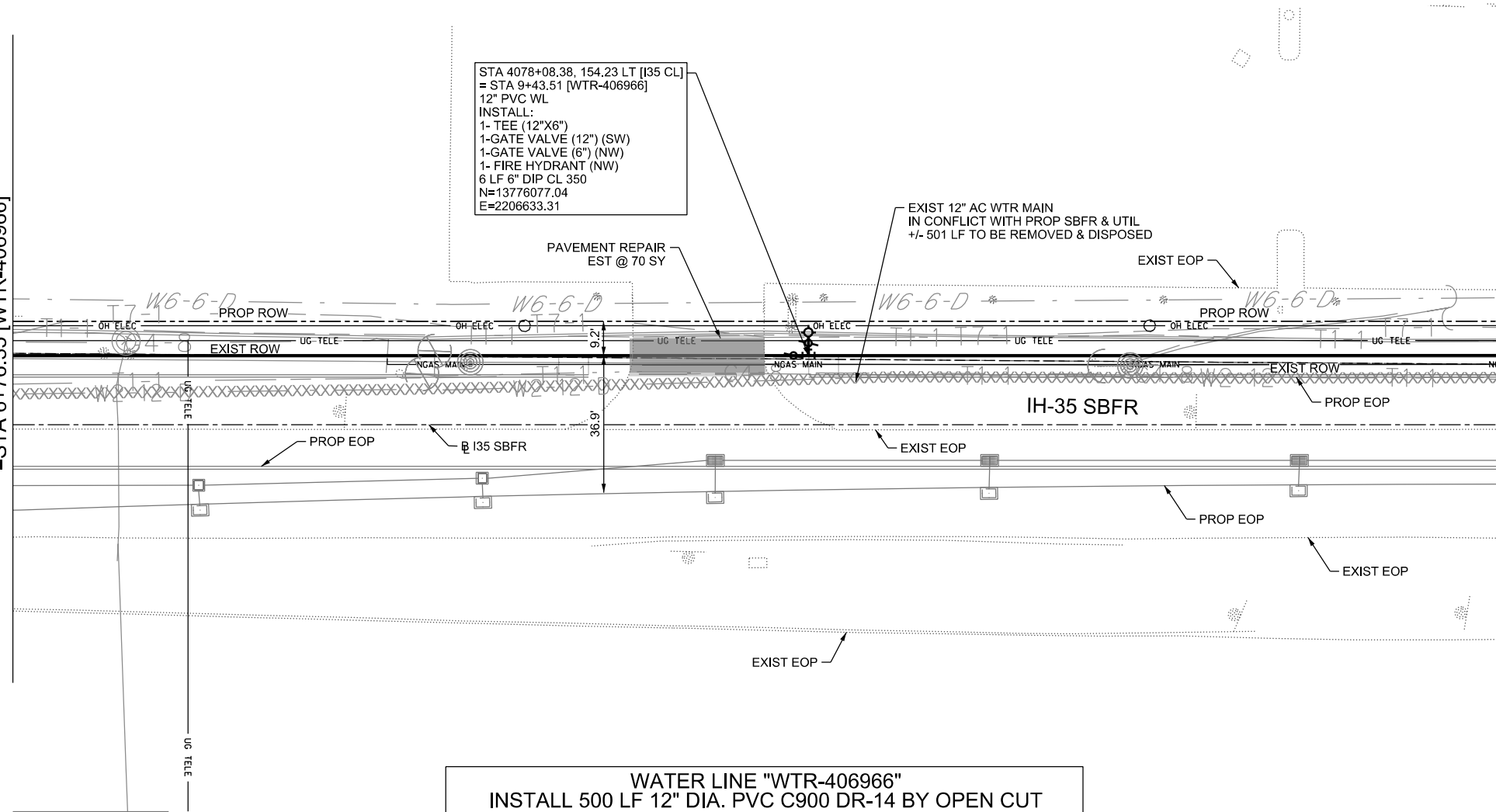
IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4070+41 TO STA 4075+41

Texas Department of Transportation
© 2021

DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2387
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC

MATCH LINE STA 4075+41 [I35 CL]
=STA 6+76.35 [WTR-406966]

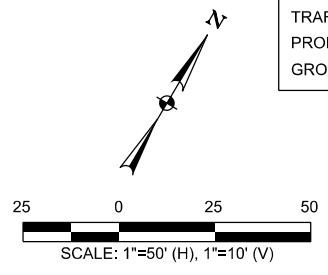
MATCH LINE STA 4080+41 [I35 CL]
=STA 11+76.35 [WTR-406966]



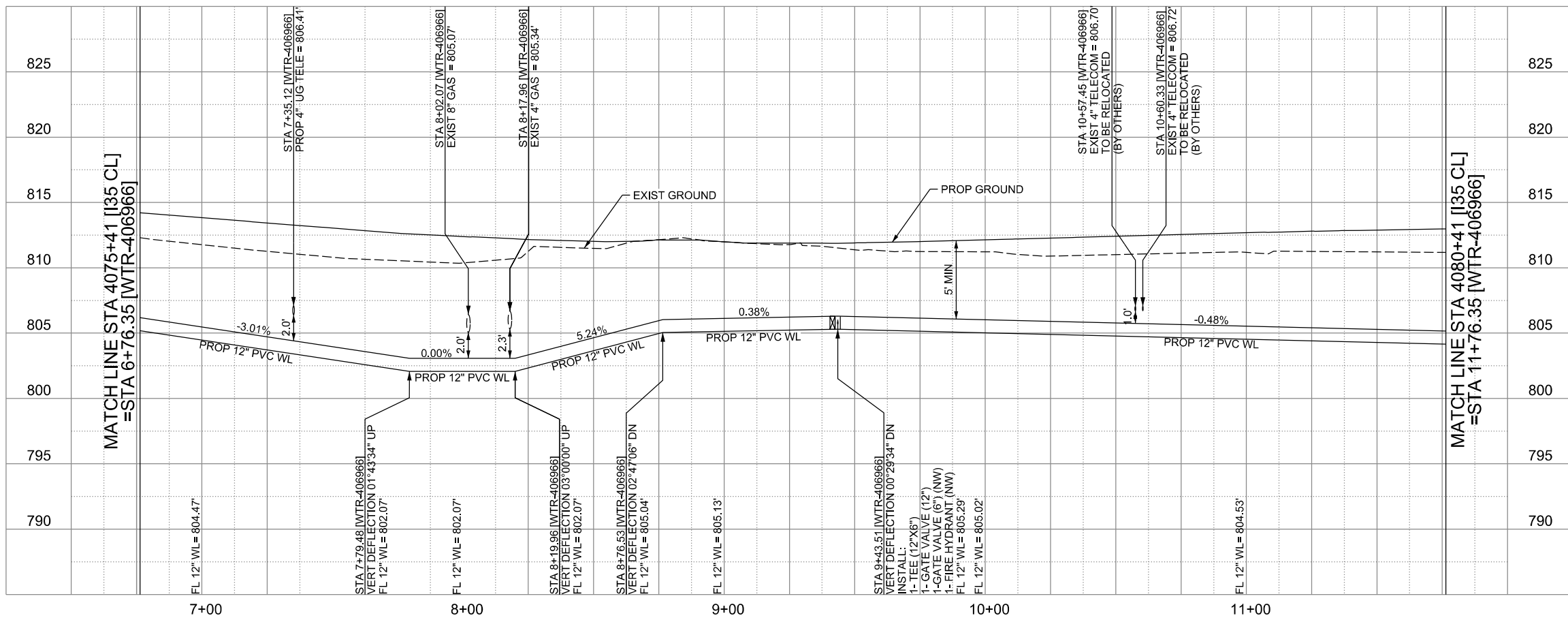
WATER LINE "WTR-406966"
INSTALL 500 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT

LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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TBPELS FIRM REGISTRATION #312

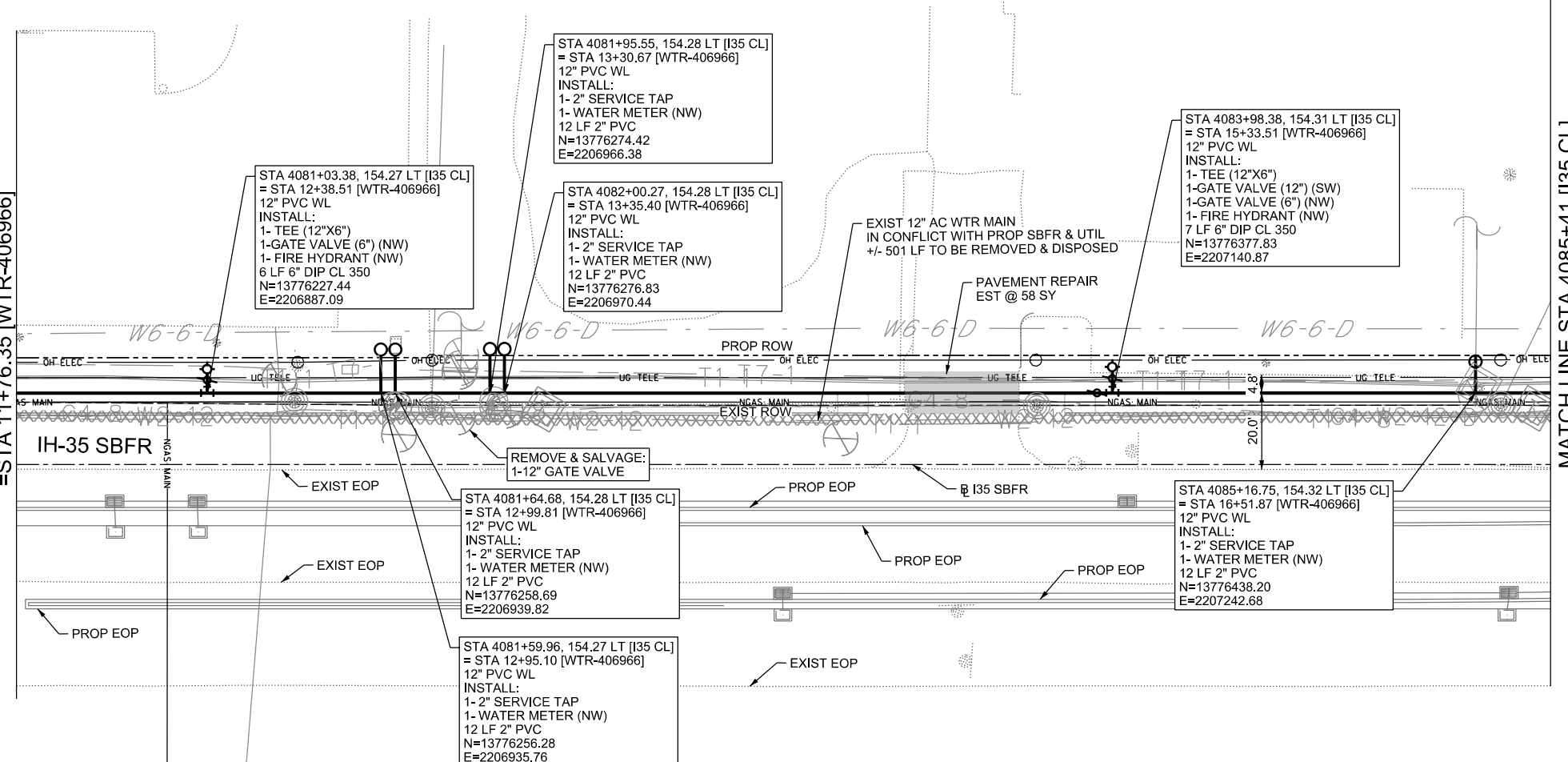
IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4075+41 TO STA 4080+41

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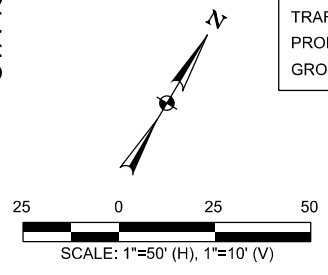
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2388
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

MATCH LINE STA 4080+41 [I35 CL]
=STA 11+76.35 [WTR-406966]

MATCH LINE STA 4085+41 [I35 CL]
=STA 16+76.35 [WTR-406966]

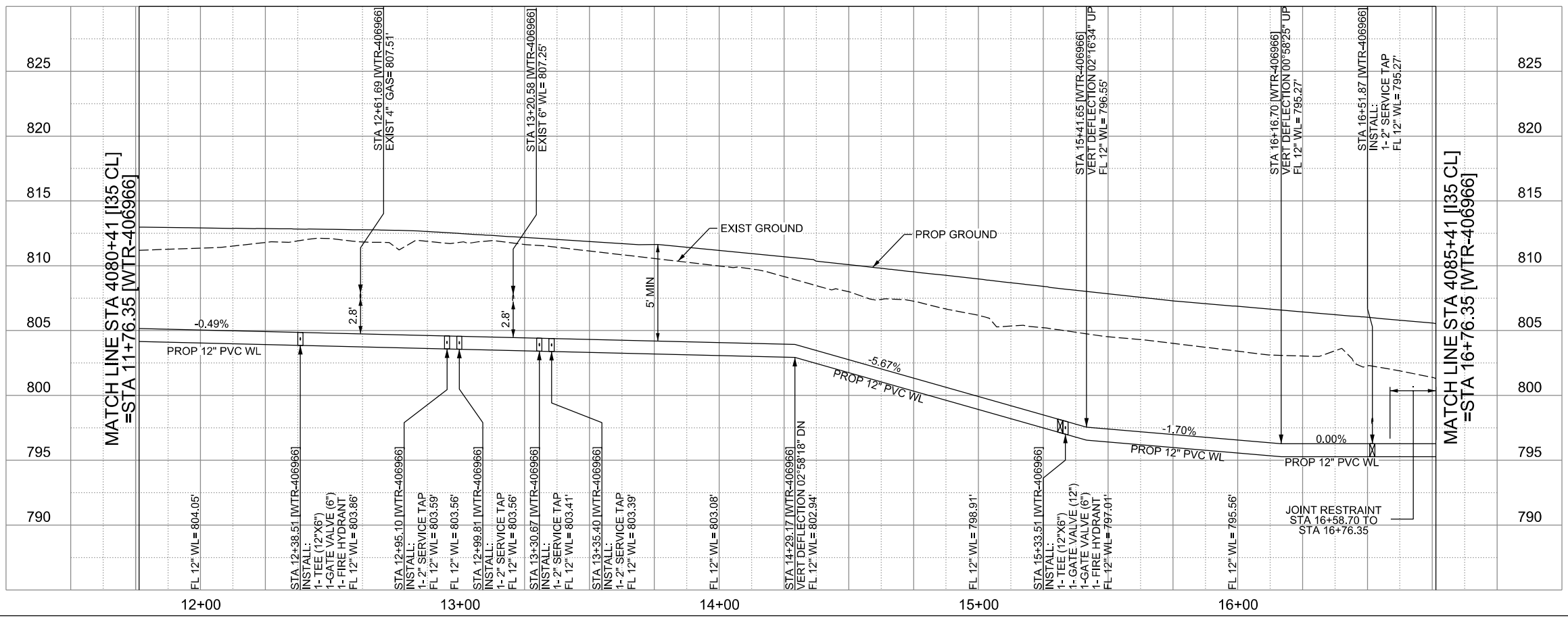


LEGEND		EXISTING	PROPOSED
GAS LINE		GA-4	NGAS MAIN
OVERHEAD ELECTRIC			OH ELEC
UNDERGROUND TELECOM		T8-01	UG TELE
WATER LINE		W2-12-D	
FORCE MAIN LINE			16\"/>



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WATER LINE "WTR-406966"
INSTALL 500 LF 12" DIA. PVC C900 DR-14 (WL) BY OPEN CUT



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		CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	
		IH-35NEX WATER RELOCATION PROJECT WATER P&P - CL STA 4080+41 TO STA 4085+41	
DSGN: NS, RDL CHECKED: PD, KA DRWN: AT, JG, AI, JB CHECKED: PD, KA	FED. RD. DIV. NO. NO. STATE DIST. SAT	STATE TEXAS COUNTY COMAL	PROJECT NO. CONTROL NO. 0016 SECTION NO. 05 SHEET NO. 2389 JOB NO. 111, ETC

MATCH LINE STA 4085+41 [I35 CL] = STA 16+76.35 [WTR-406966]

MATCH LINE STA 4090+41 [I35 CL] = STA 21+77.45 [WTR-406966]

INSTALL 20 LF 24" DIA STEEL ENCASUREMENT (MIN 3/8" THICK) BY OPEN CUT FROM STA 4085+68.65 TO STA 4085+88.65 [I35 CL] = STA 17+03.77 TO STA 17+23.77 [WTR-406966]

STA 4086+57.99, 162.52 LT [I35 CL] = STA 17+93.92 [WTR-406966] 12" PVC WL INSTALL: 1- 2" SERVICE TAP 1- WATER METER (NW) 32.4 LF 2" PVC N=13776517.22 E=2207360.04

PI STA 4086+71.94, 162.52 LT [I35 CL] = STA 18+07.87 [WTR-406966] 12" PVC WL ΔH= 02°00'00" RT N=13776524.33 E=2207372.04

PI STA 4086+91.44, 161.84 LT [I35 CL] = STA 18+27.38 [WTR-406966] 12" PVC WL ΔH= 03°00'00" LT N=13776533.69 E=2207389.16

PI STA 4088+29.38, 159.54 LT [I35 CL] = STA 19+65.34 [WTR-406966] 12" PVC WL ΔH= 00°15'06" BEND LT N=13776602.02 E=2207509.01

STA 4089+87.53, 157.60 LT [I35 CL] = STA 21+23.51 [WTR-406966] 12" PVC WL INSTALL: 1- TEE (12"x6") 1-GATE VALVE (12") (SW) 1-GATE VALVE (6") (NW) 1- FIRE HYDRANT (NW) 6.2 LF 6" DIP CL 350 N=13776680.96 E=2207646.07

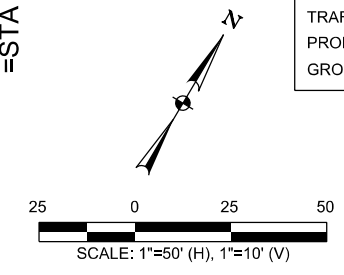
STA 4086+50.94, 162.52 LT [I35 CL] = STA 17+86.88 [WTR-406966] 12" PVC WL INSTALL: 1-45° BEND RT N=13776513.63 E=2207353.97

STA 4086+09.84, 154.34 LT [I35 CL] = STA 17+44.96 [WTR-406966] 12" PVC WL INSTALL: 1-45° BEND LT N=13776485.64 E=2207322.78

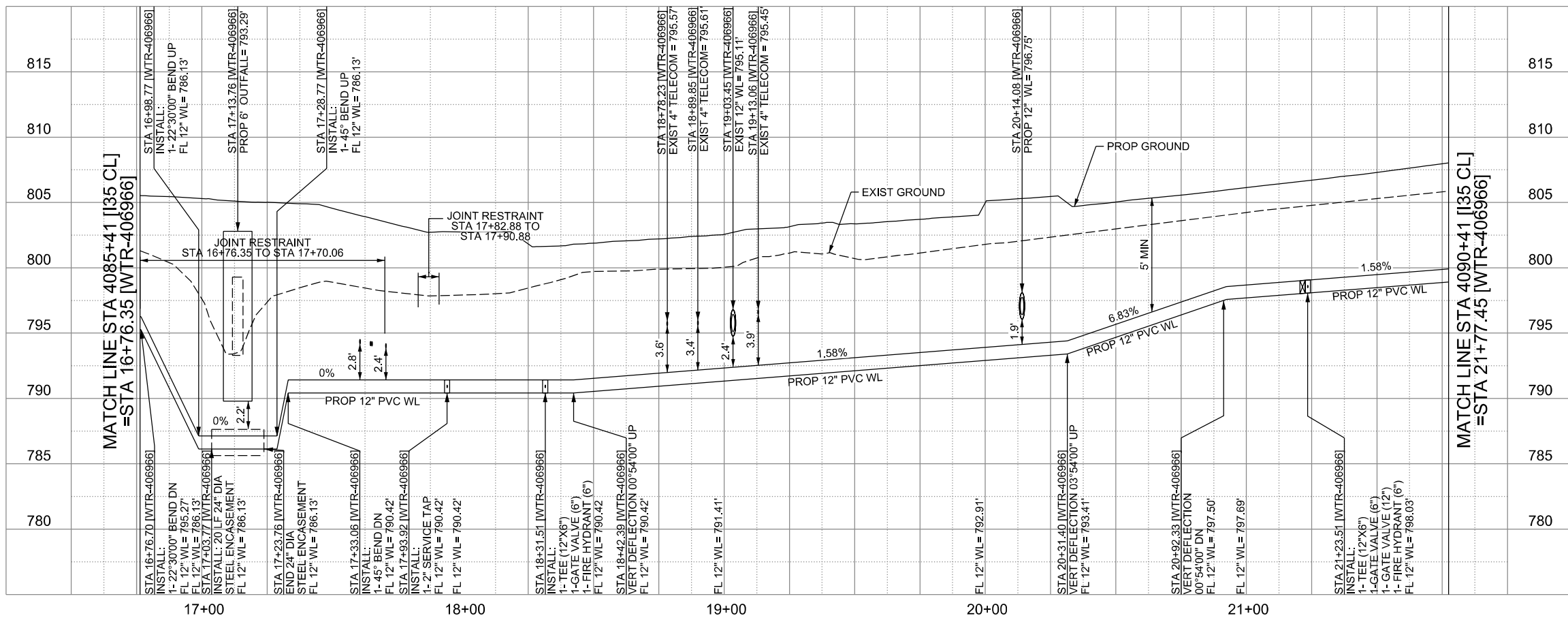
WATER LINE "WTR-406966" INSTALL 502 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT INSTALL 20 LF 24" STEEL ENCASUREMENT PIPE BY OPEN CUT

LEGEND

	EXISTING	PROPOSED
GAS LINE		NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM		UG TELE
WATER LINE		
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE		8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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TBPELS FIRM REGISTRATION #312

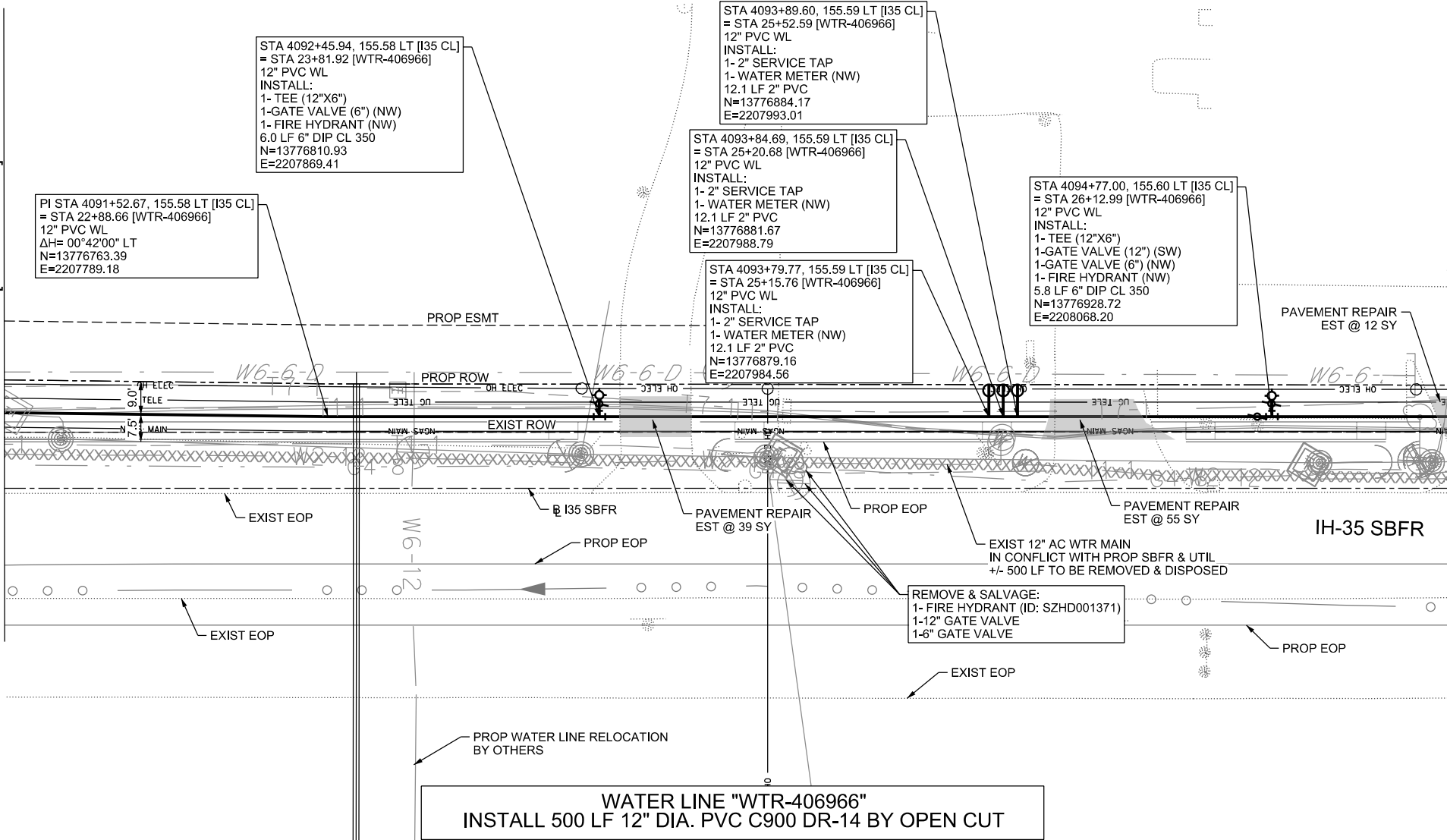
IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4085+41 TO STA 4090+41

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2390
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

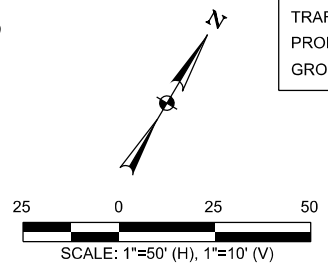
MATCH LINE STA 4090+41 [I35 CL]
=STA 21+77.45 [WTR-406966]

MATCH LINE STA 4095+41 [I35 CL]
=STA 26+77.21 [WTR-406966]

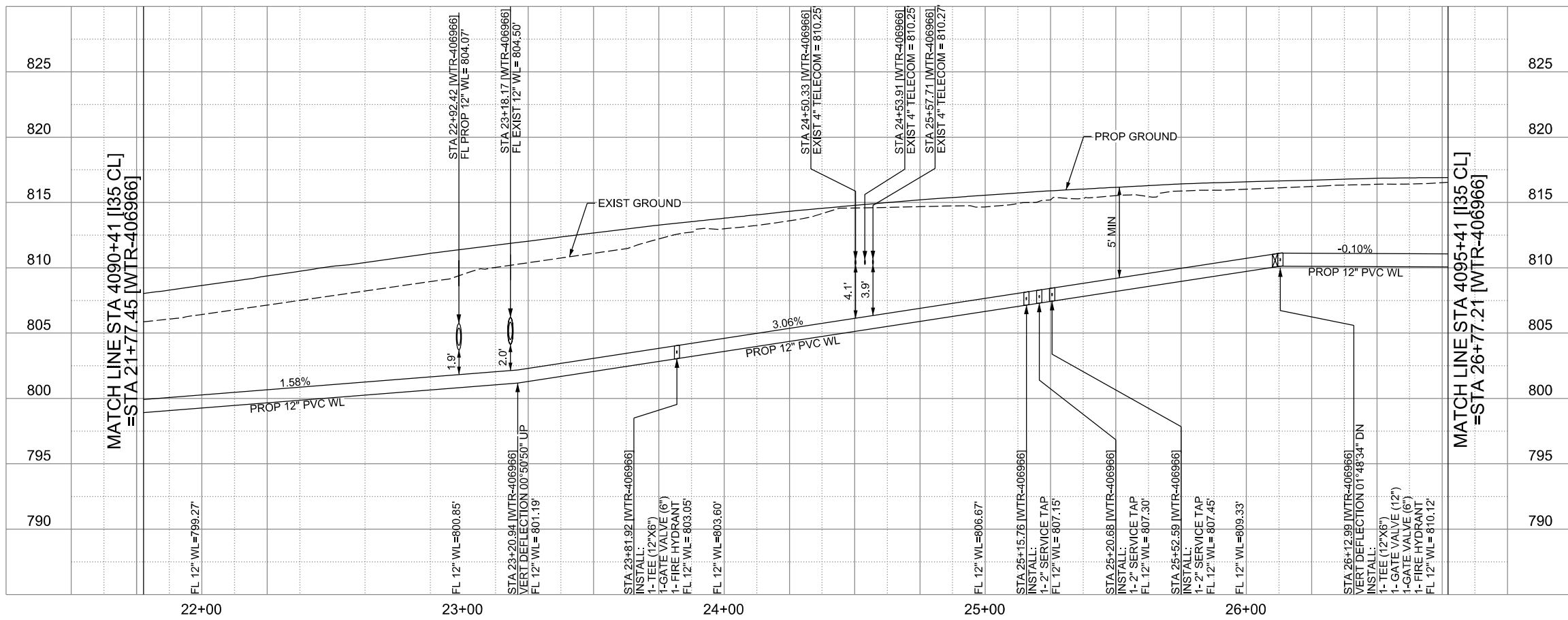


WATER LINE "WTR-406966"
INSTALL 500 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT

LEGEND		EXISTING	PROPOSED
GAS LINE		GA-4	NGAS MAIN
OVERHEAD ELECTRIC			OH ELEC
UNDERGROUND TELECOM		T8-01	UG TELE
WATER LINE		W2-12-D	
FORCE MAIN LINE			16" FM
SANITARY SEWER LINE		WW5-12-D	8" SS
SANITARY SEWER MH			
STORM SEWER			
FIRE HYDRANT ASSEMBLY			
WATER VALVE			
SERVICE RELAY			
RELOCATE METER			
PRESSURE REDUCING VALVE			
BLOW OFF VALVE			
STEEL ENCASUREMENT			
LUMINAIRES			
TRAFFIC CONDUIT			
TRAFFIC LIGHT			
PROPOSED ELECTRICAL SERVICE			
GROUND BOX			



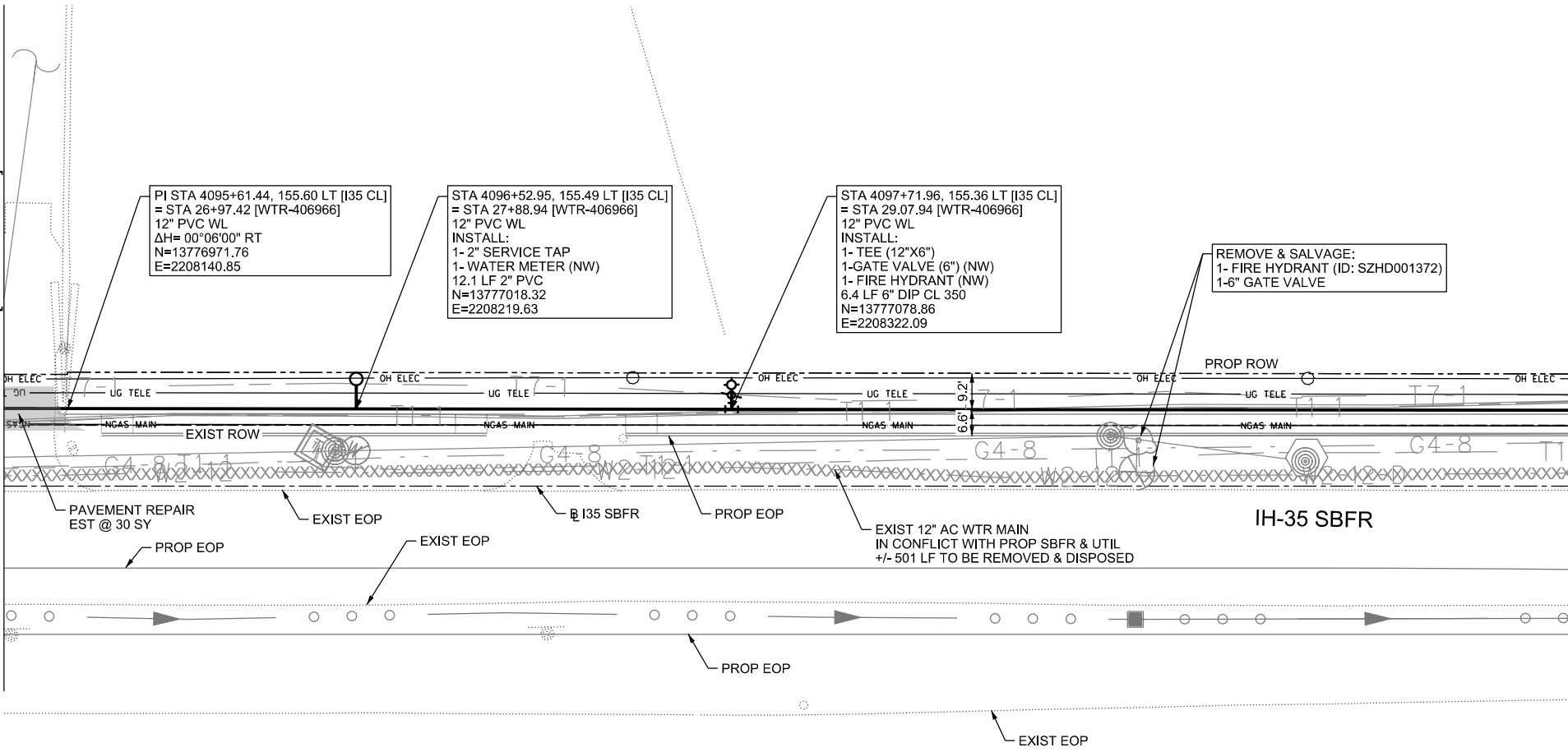
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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS		IH-35NEX WATER RELOCATION PROJECT	
SCHERTZ COMMUNITY • SERVICE • OPPORTUNITY		WATER P&P - CL STA 4090+41 TO STA 4095+41	
halff TBPELS FIRM REGISTRATION #312		Texas Department of Transportation © 2021	
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.
CHECKED: PD, KA	NO.	TEXAS	2391
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO. SECTION NO. JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016 05 111, ETC

MATCH LINE STA 4095+41 [I35 CL]
=STA 26+77.21 [WTR-406966]



PI STA 4095+61.44, 155.60 LT [I35 CL]
= STA 26+97.42 [WTR-406966]
12" PVC WL
ΔH= 00°06'00" RT
N=13776971.76
E=2208140.85

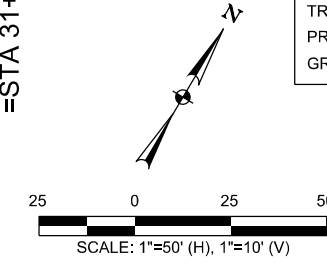
STA 4096+52.95, 155.49 LT [I35 CL]
= STA 27+88.94 [WTR-406966]
12" PVC WL
INSTALL:
1- 2" SERVICE TAP
1- WATER METER (NW)
12.1 LF 2" PVC
N=13777018.32
E=2208219.63

STA 4097+71.96, 155.36 LT [I35 CL]
= STA 29.07.94 [WTR-406966]
12" PVC WL
INSTALL:
1- TEE (12"X6")
1-GATE VALVE (6") (NW)
1- FIRE HYDRANT (NW)
6.4 LF 6" DIP CL 350
N=13777078.86
E=2208322.09

REMOVE & SALVAGE:
1- FIRE HYDRANT (ID: SZHD001372)
1-6" GATE VALVE

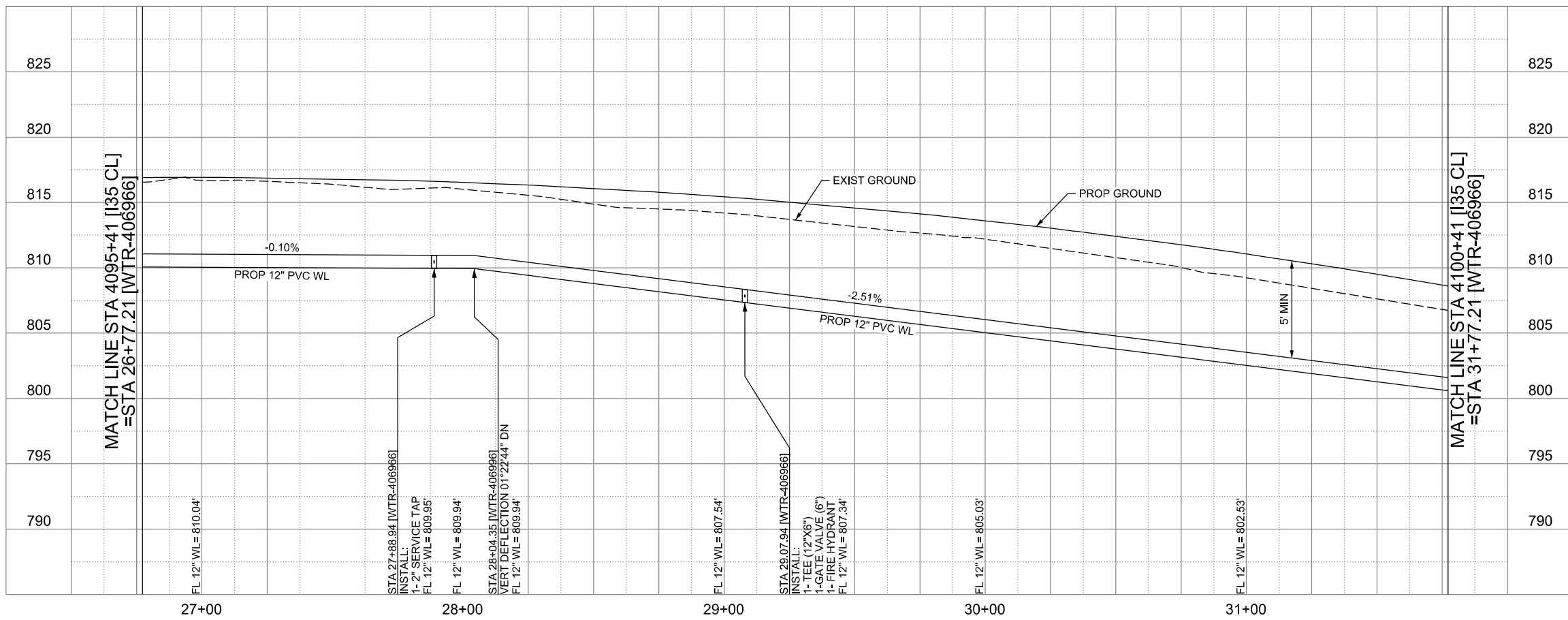
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16' FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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WATER LINE "WTR-406966"
INSTALL 501 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT



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ENGINEERING AND PUBLIC WORKS

SCHERTZ
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TBPELS FIRM REGISTRATION #312

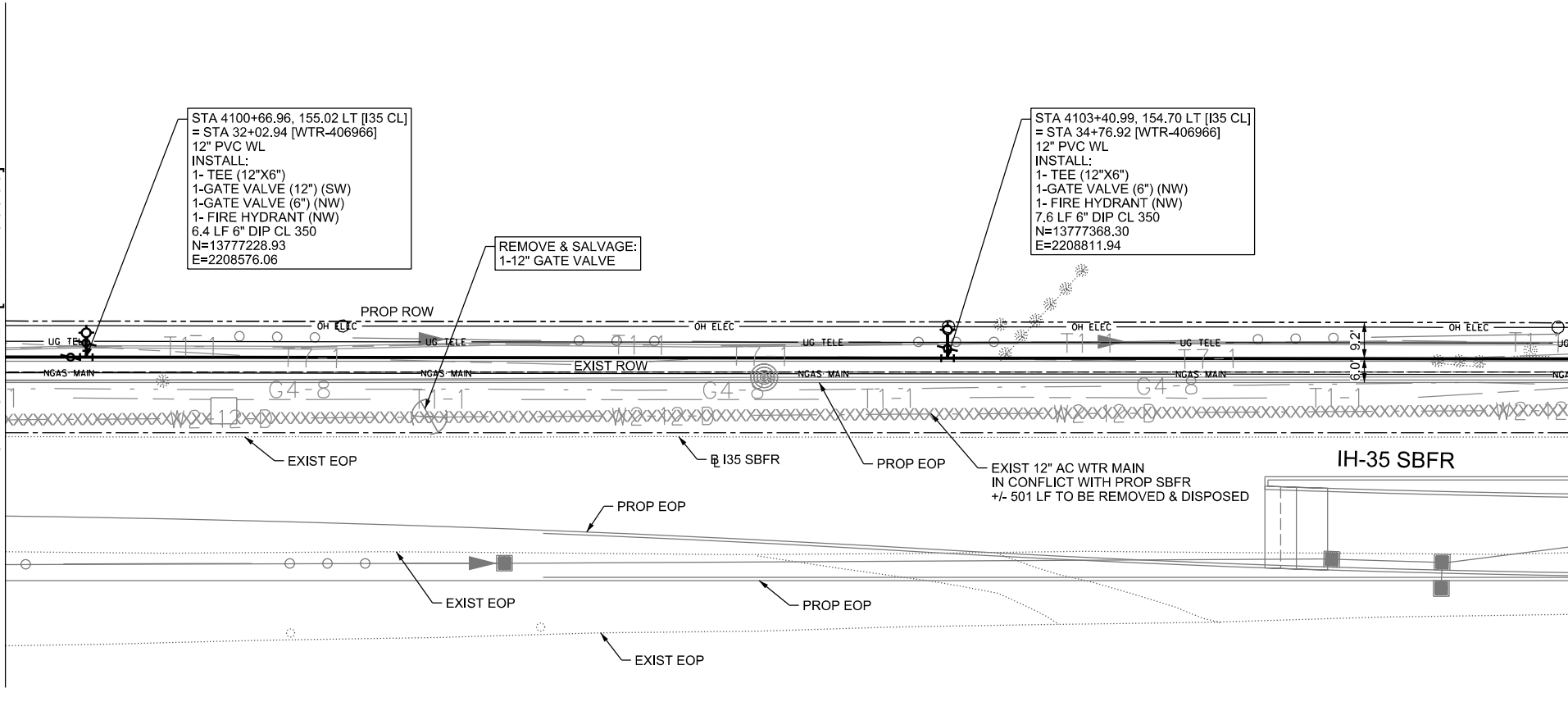
IH-35NEX
WATER
RELOCATION
PROJECT

WATER P&P - CL
STA 4095+41 TO
4100+41

Texas Department of Transportation
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2392
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

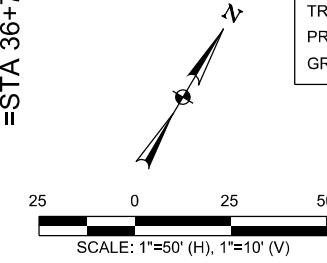
MATCH LINE STA 4100+41 [I35 CL]
=STA 31+77.21 [WTR-406966]



MATCH LINE STA 4105+41 [I35 CL]
=STA 36+77.21 [WTR-406966]

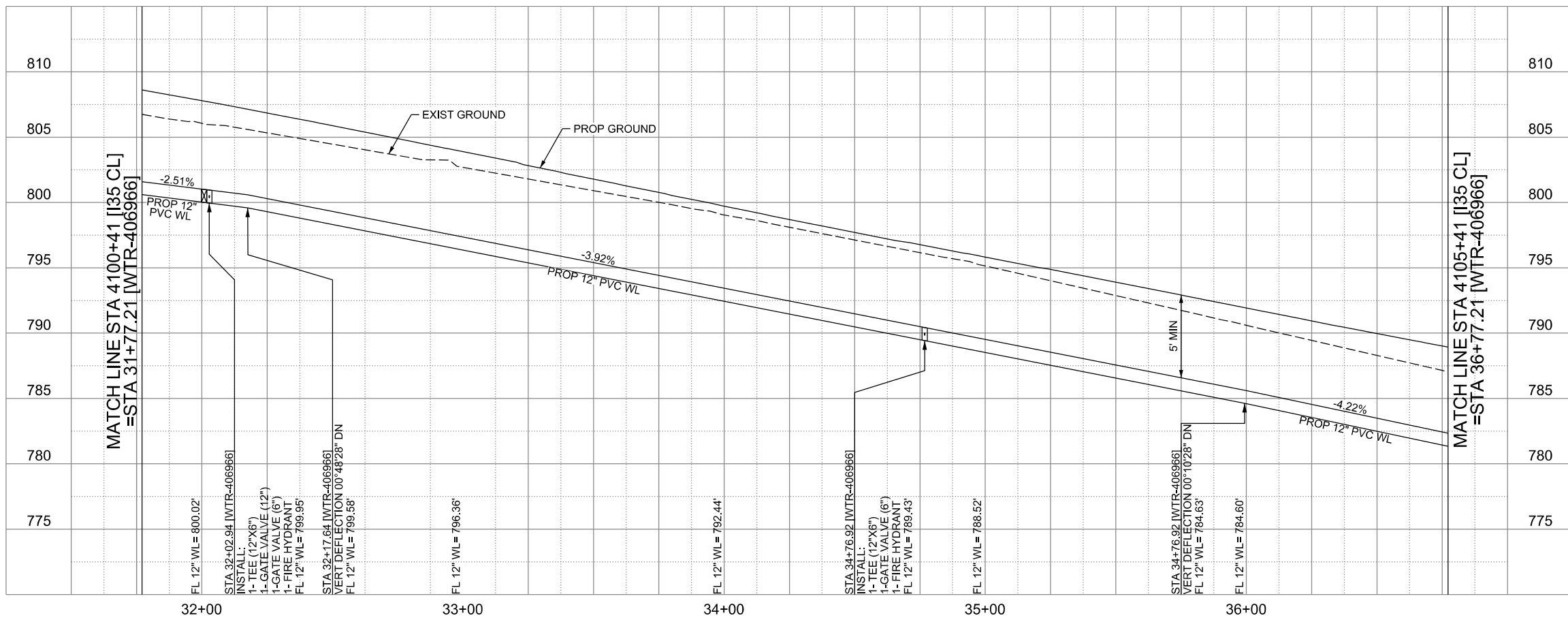
LEGEND

	EXISTING	PROPOSED
GAS LINE	— G4-4 —	— NGAS MAIN —
OVERHEAD ELECTRIC	— OH ELEC —	— OH ELEC —
UNDERGROUND TELECOM	— UG TELE —	— UG TELE —
WATER LINE	— W2-12-D —	— W2-12-D —
FORCE MAIN LINE		← 16" FM
SANITARY SEWER LINE		← 8" SS
SANITARY SEWER MH	⊙	⊙
STORM SEWER		⊙
FIRE HYDRANT ASSEMBLY		⊙
WATER VALVE	⊙	⊙
SERVICE RELAY		⊙
RELOCATE METER	⊙	⊙
PRESSURE REDUCING VALVE		⊙
BLOW OFF VALVE		⊙
STEEL ENCASUREMENT		▨
LUMINAIRES	⊙	⊙
TRAFFIC CONDUIT	—	—
TRAFFIC LIGHT		⬡
PROPOSED ELECTRICAL SERVICE		⬡
GROUND BOX		⬡



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

WATER LINE "WTR-406966"
INSTALL 500 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 10-27-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE, 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

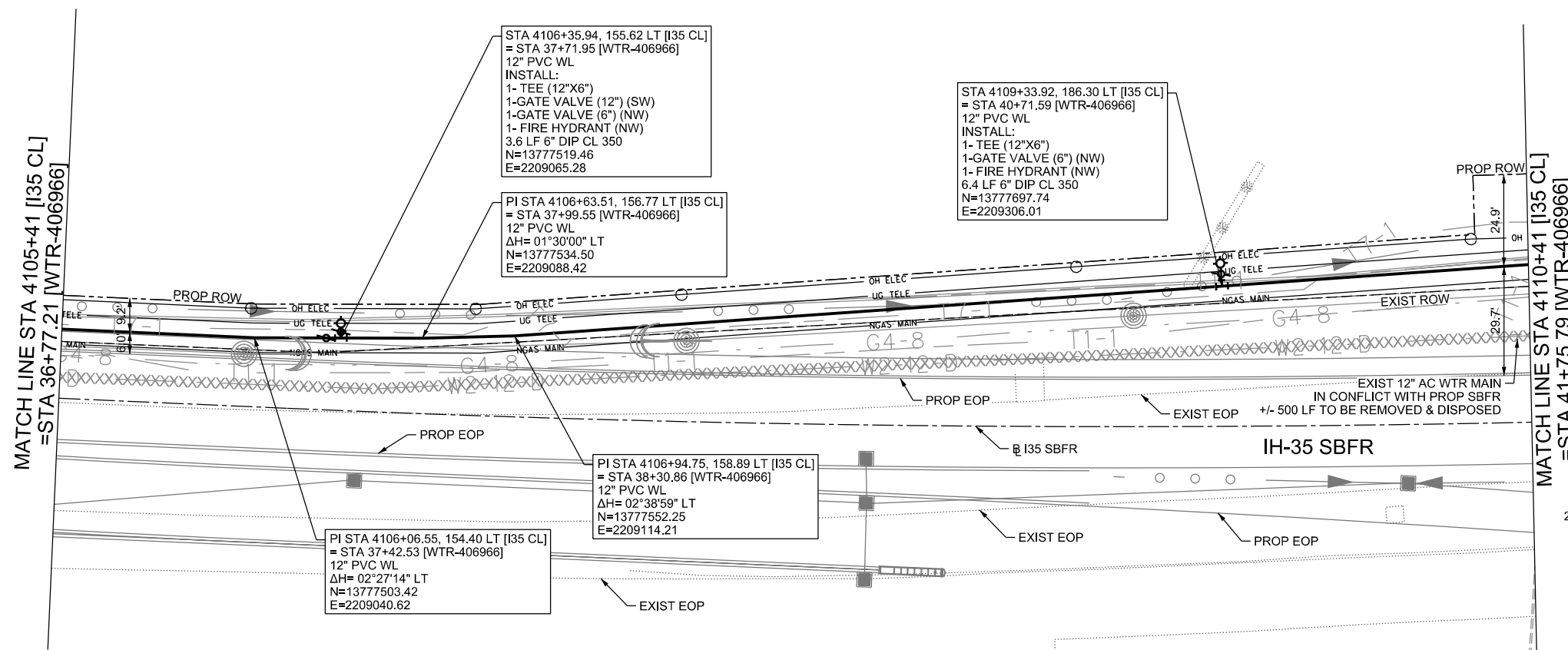
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TBPELS FIRM REGISTRATION #312

ih-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4100+41 TO STA 4105+41

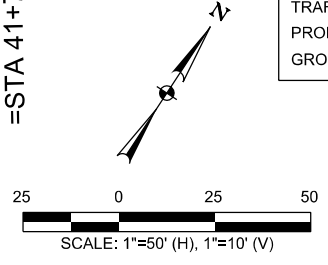
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2393
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



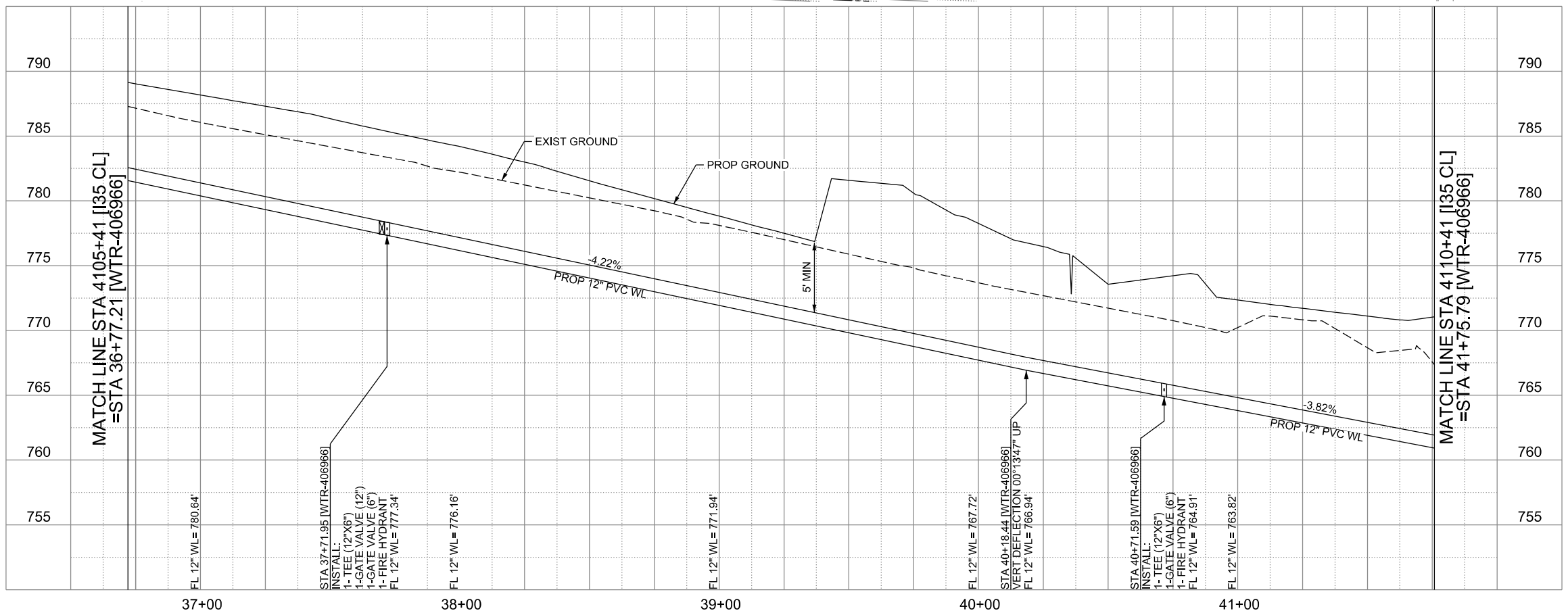
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16' FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

WATER LINE "WTR-406966"
INSTALL 499 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT



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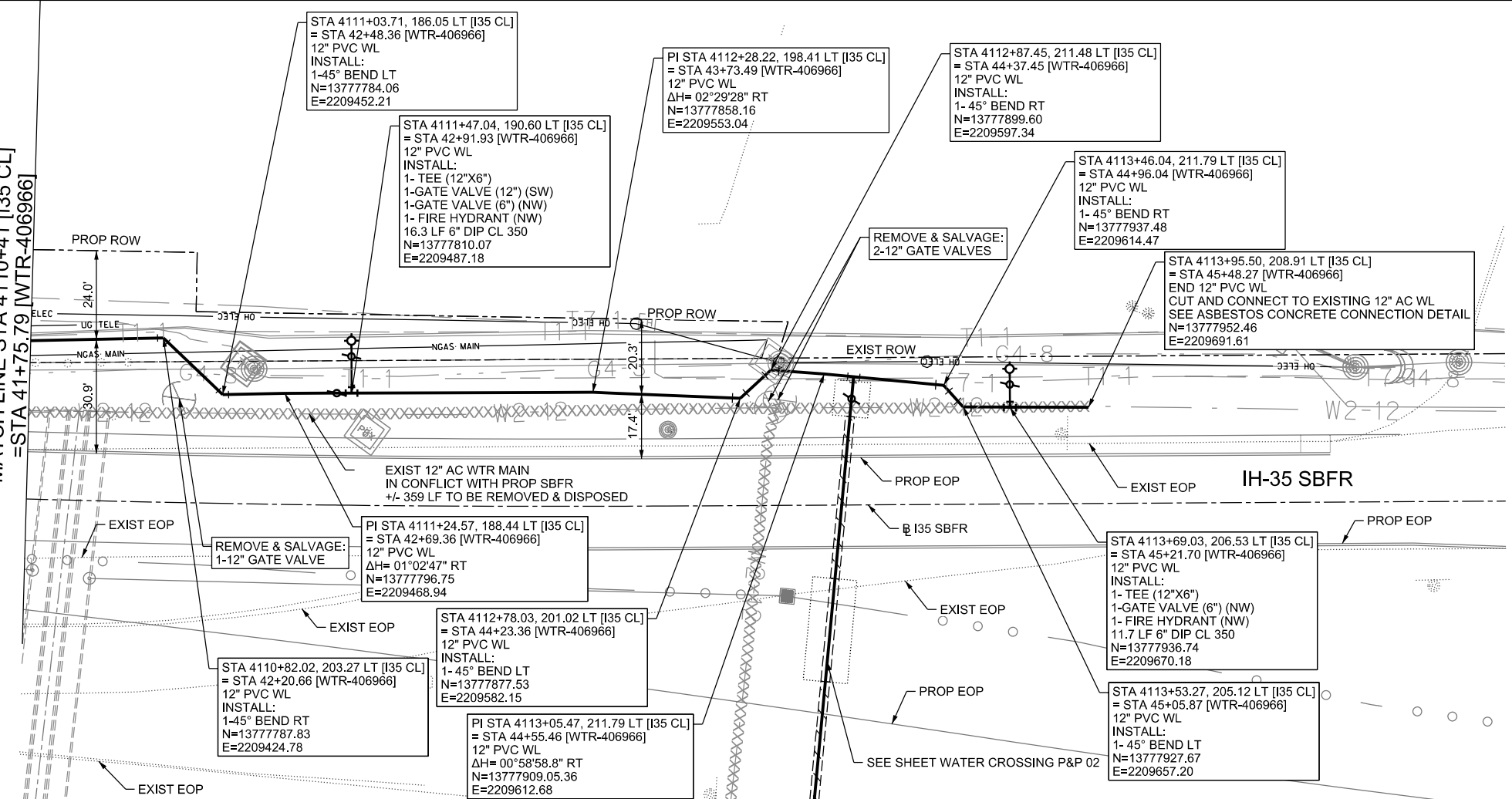
IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4105+41 TO STA 4110+41

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2394
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
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				111, ETC

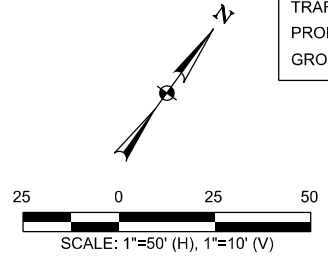
MATCH LINE STA 4110+41 [I35 CL]
=STA 41+75.79 [WTR-406966]

MATCH LINE STA 4110+41 [I35 CL]
=STA 41+75.79 [WTR-406966]

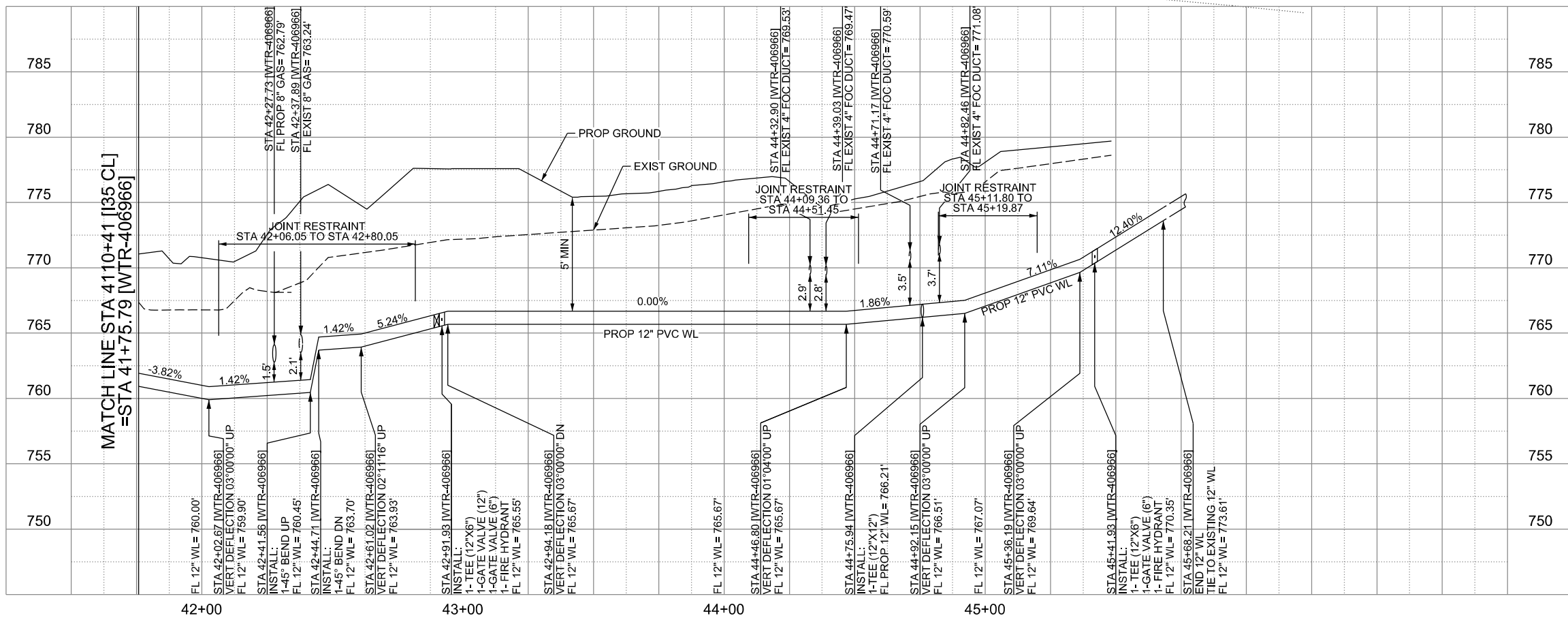


WATER LINE "WTR-406966"
INSTALL 373 LF 12" DIA. PVC C900 DR-14 (WL) BY OPEN CUT

	EXISTING	PROPOSED
GAS LINE		NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM		UG TELE
WATER LINE		
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE		8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

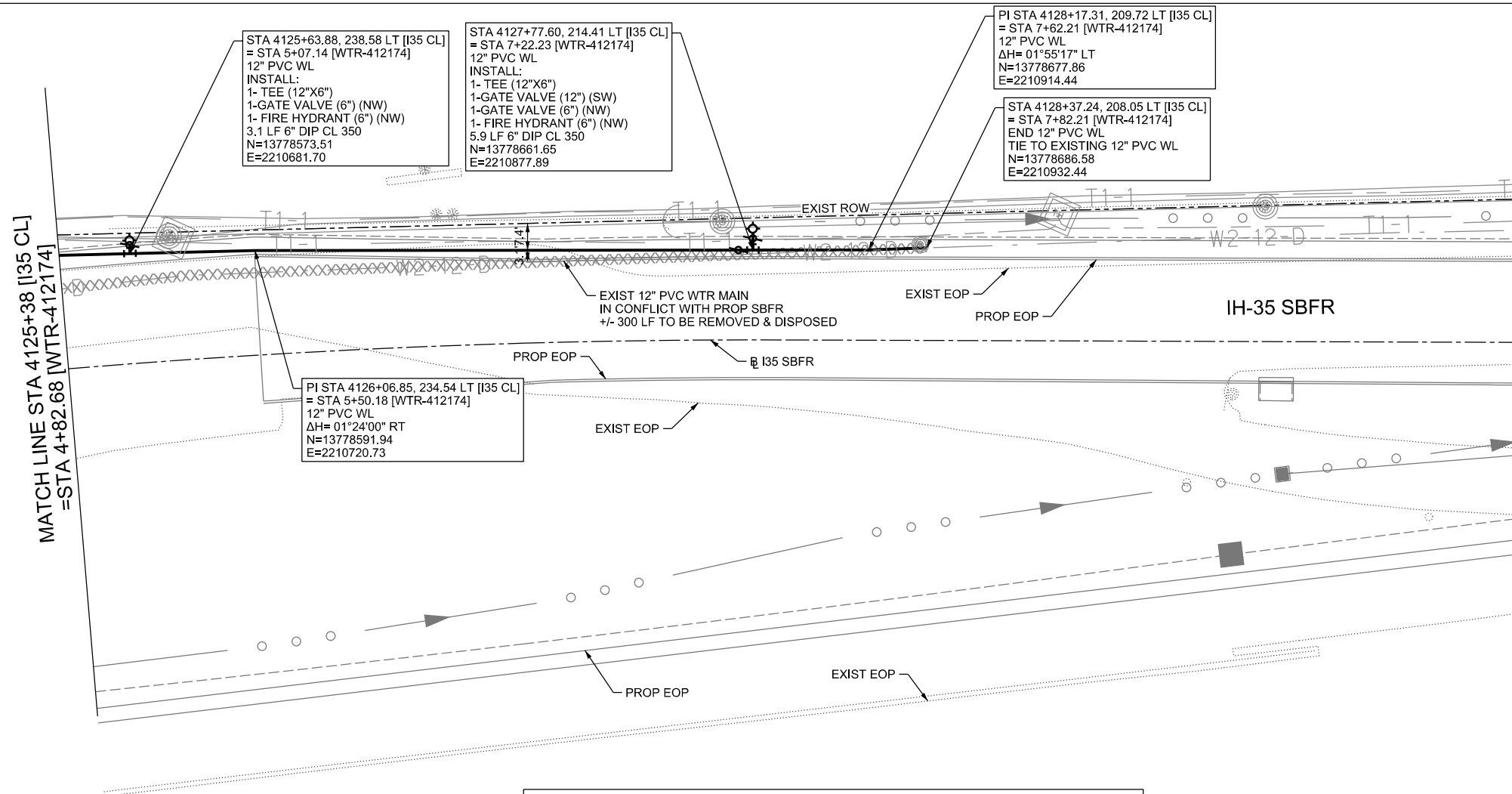


CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.



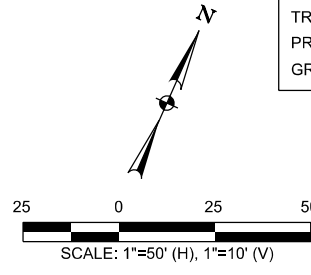
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE. 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS		IH-35NEX WATER RELOCATION PROJECT	
SCHERTZ COMMUNITY • SERVICE • OPPORTUNITY		WATER P&P - CL STA 4110+41 TO STA 4115+39	
halff TBPELS FIRM REGISTRATION #312		Texas Department of Transportation © 2021	
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.
CHECKED: PD, KA	NO.	TEXAS	SHEET NO. 2395
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO. SECTION NO. JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016 05 111, ETC



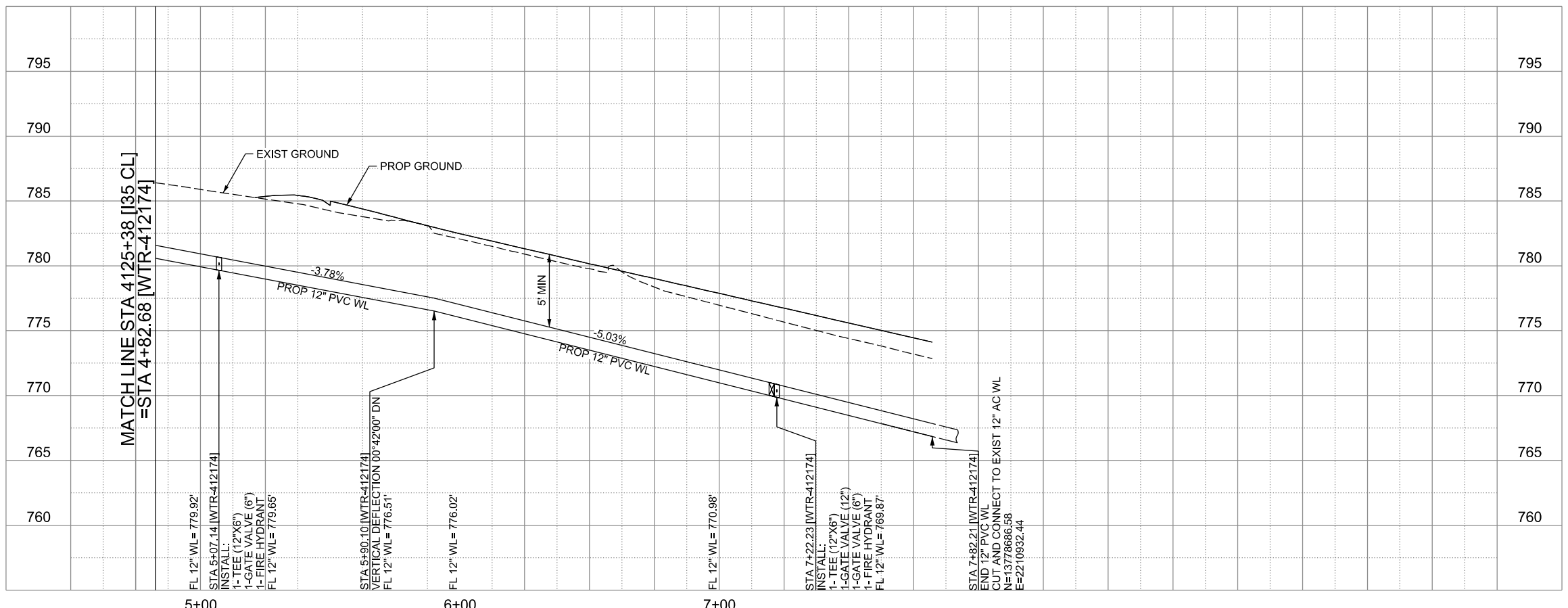
LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

**WATER LINE "WTR-412174"
INSTALL 300 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

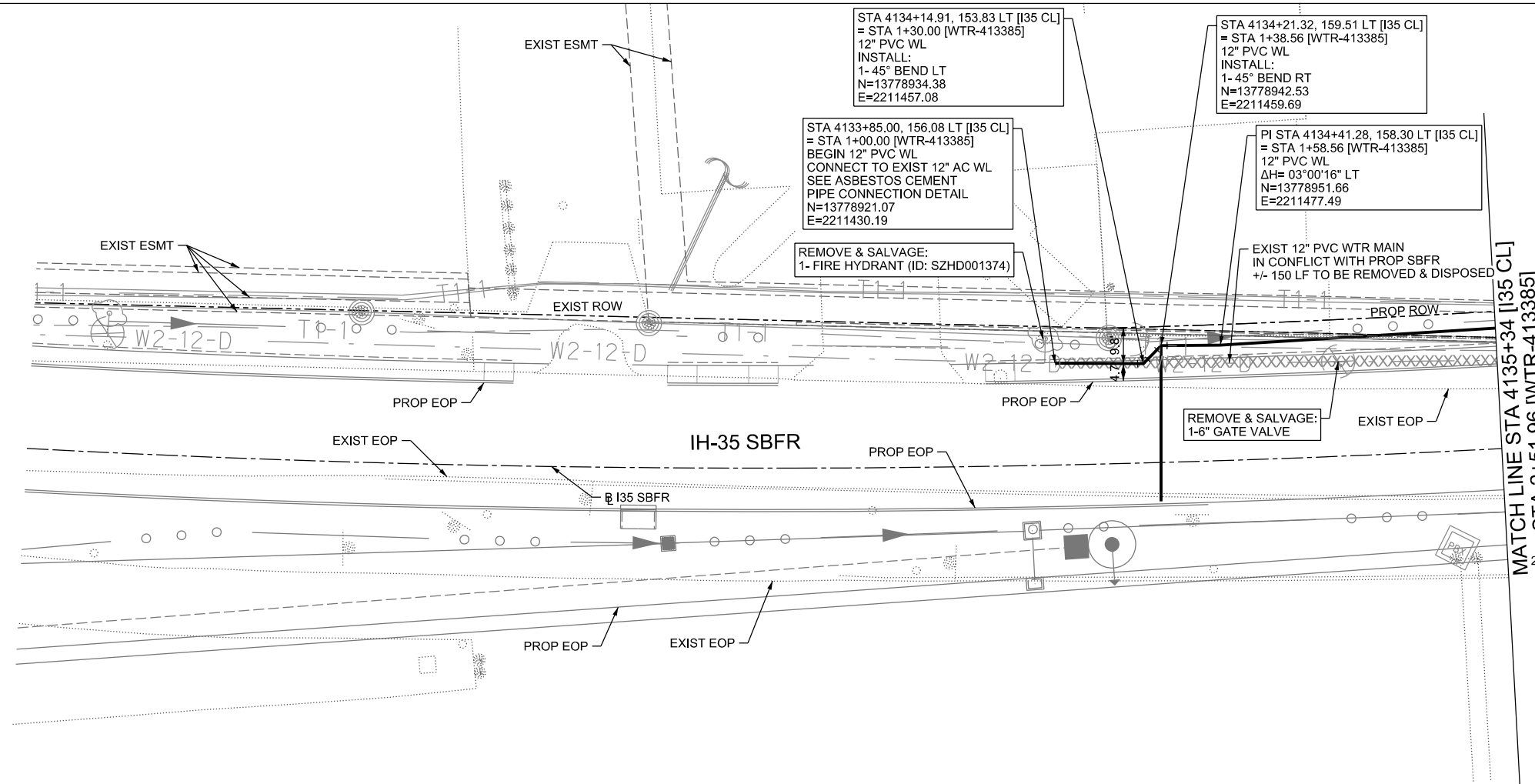
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IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4125+38 TO STA 4130+35

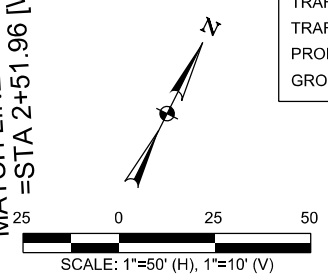
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2397
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



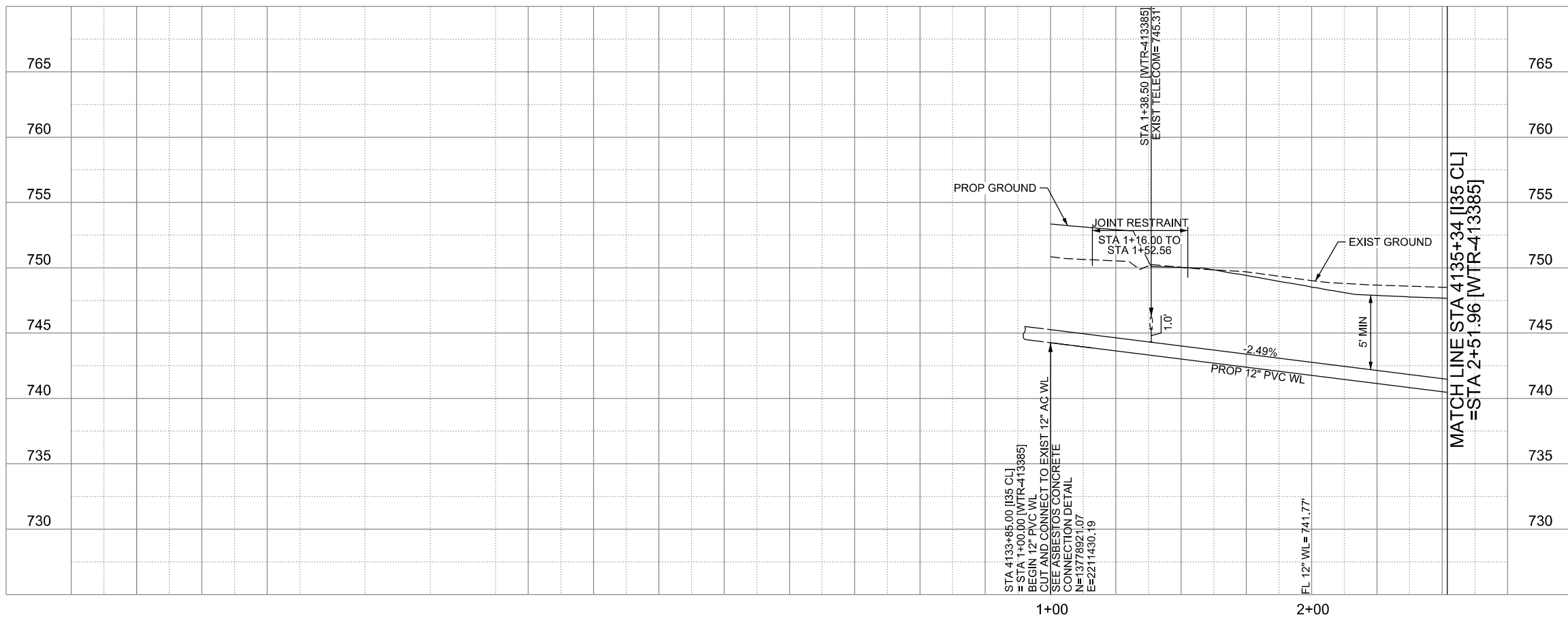
LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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**WATER LINE "WTR-413385"
INSTALL 152 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**



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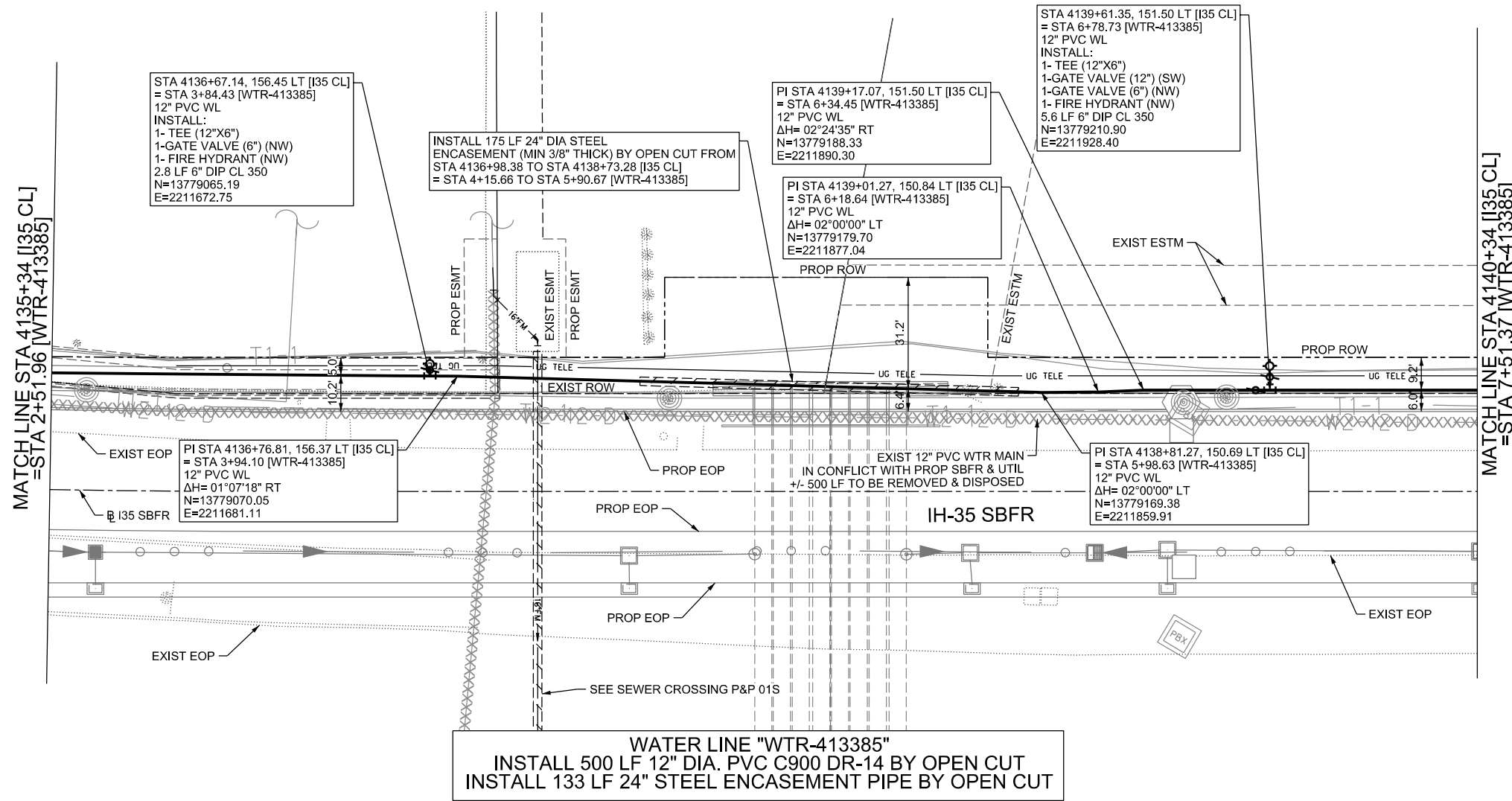
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TBPELS FIRM REGISTRATION #312

**IH-35NEX
WATER
RELOCATION
PROJECT**

WATER P&P - CL
STA 4130+35.46 TO
STA 4135+34

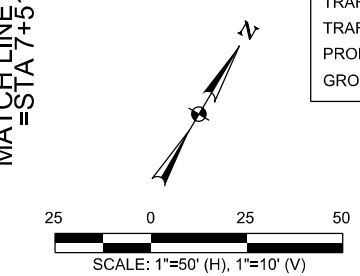
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2398
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC



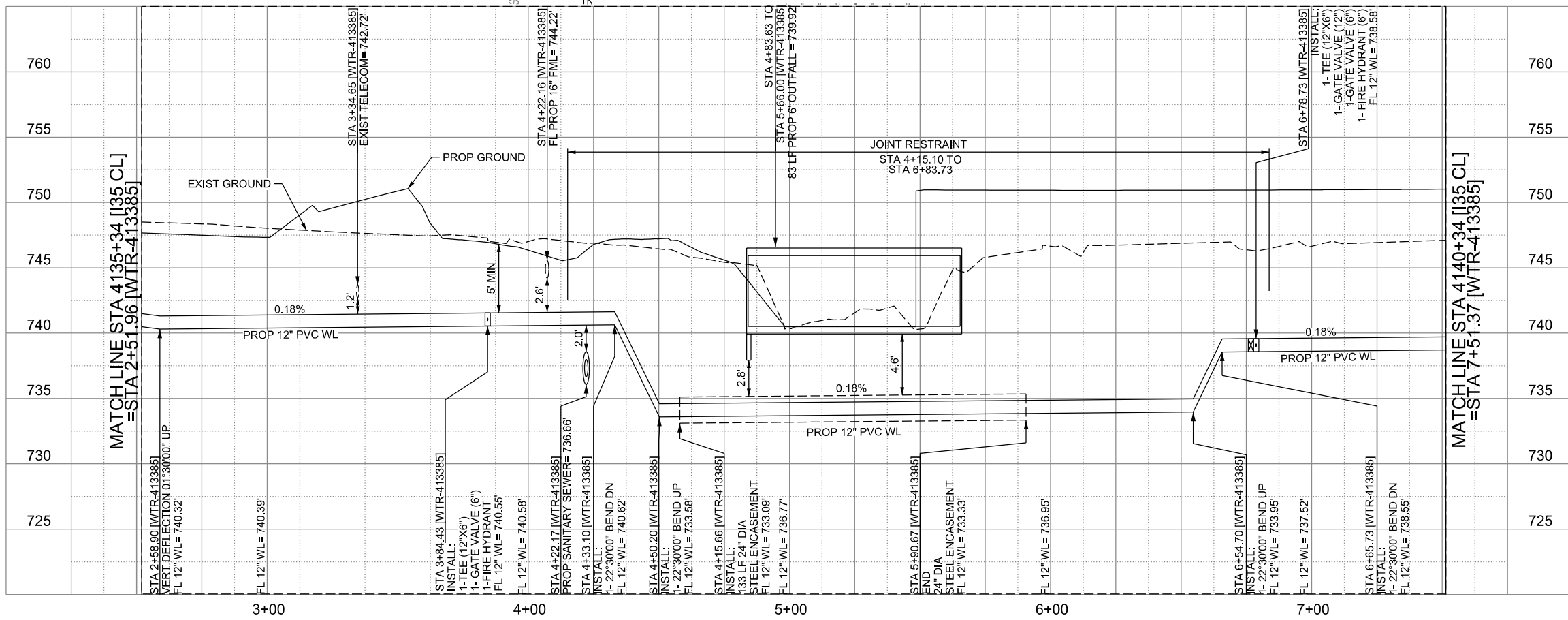
LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-0	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-0	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

WATER LINE "WTR-413385"
 INSTALL 500 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT
 INSTALL 133 LF 24" STEEL ENCASUREMENT PIPE BY OPEN CUT



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

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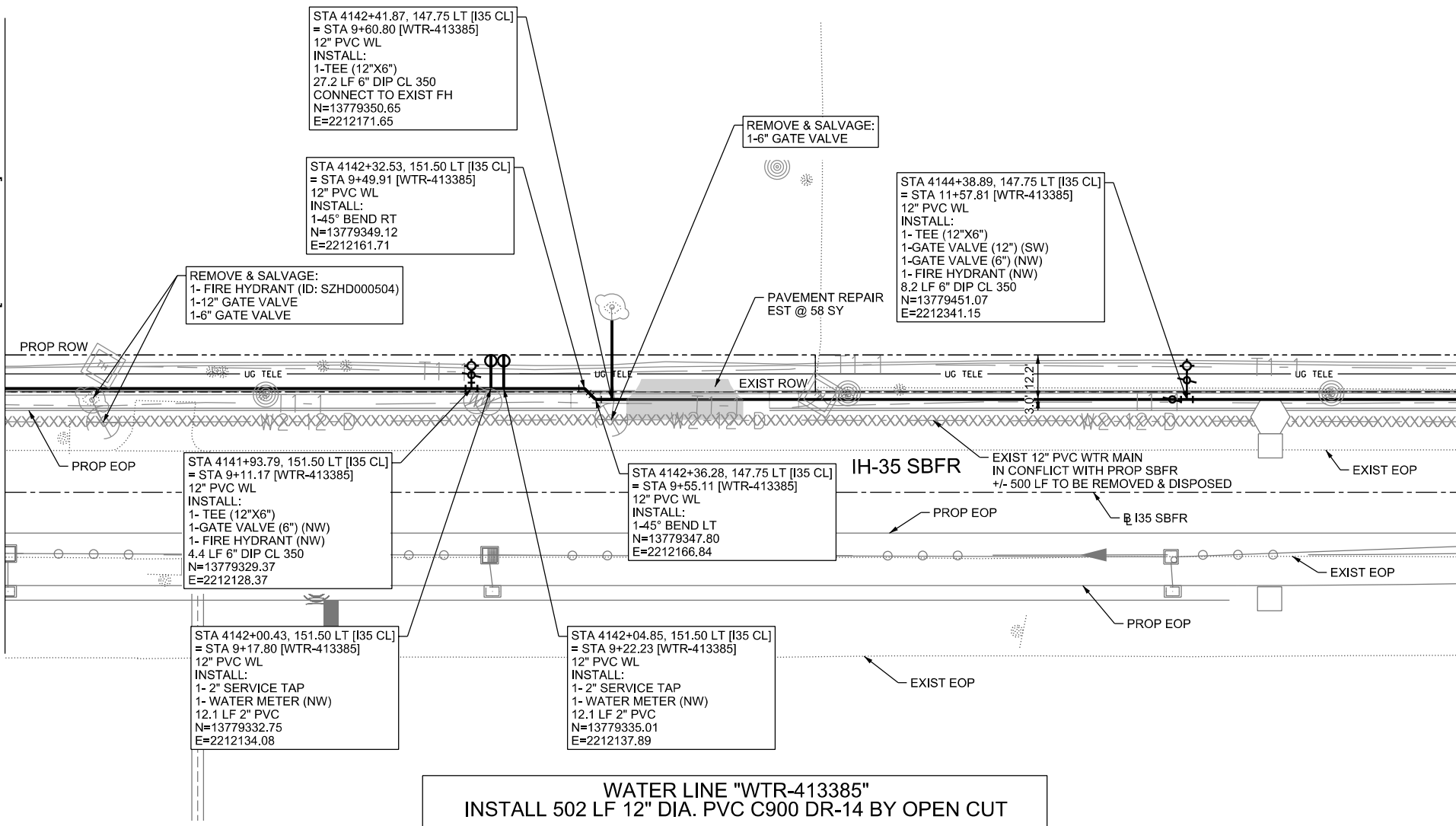
IH-35NEX WATER RELOCATION PROJECT
 WATER P&P - CL
 STA 4135+34 TO STA 4140+34

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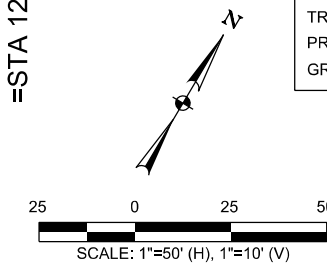
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2399
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

MATCH LINE STA 4140+34 [I35 CL]
=STA 7+51.37 [WTR-413385]

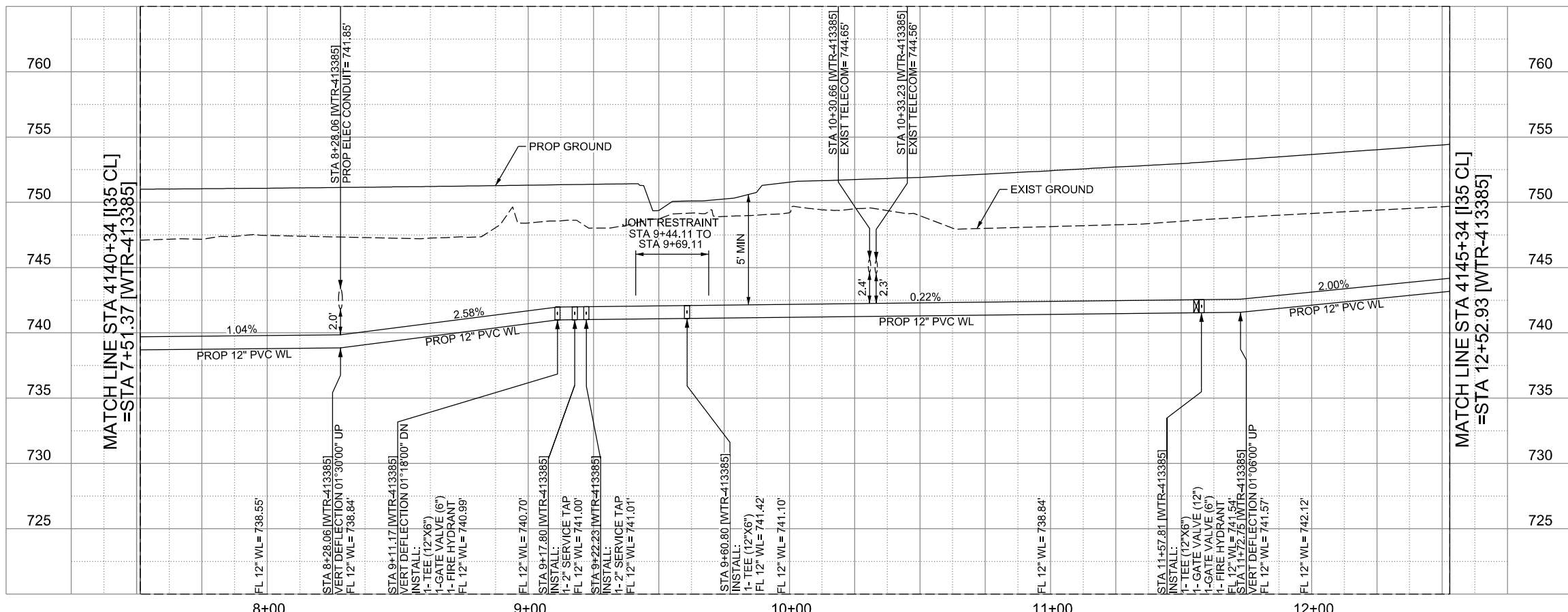
MATCH LINE STA 4145+34 [I35 CL]
=STA 12+52.93 [WTR-413385]



LEGEND		EXISTING	PROPOSED
GAS LINE	— G-4 —	— NGAS MAIN —	
OVERHEAD ELECTRIC	— T-8 —	— OH ELEC —	
UNDERGROUND TELECOM	— T-8-01 —	— UG TELE —	
WATER LINE	— W-2-12-D —	— 16" FM —	
FORCE MAIN LINE	— W-5-12-D —	— 8" SS —	
SANITARY SEWER LINE	— W-5-12-D —	— 8" SS —	
SANITARY SEWER MH	⊙	⊙	
STORM SEWER	⊙	⊙	
FIRE HYDRANT ASSEMBLY	⊙	⊙	
WATER VALVE	⊙	⊙	
SERVICE RELAY	⊙	⊙	
RELOCATE METER	⊙	⊙	
PRESSURE REDUCING VALVE	⊙	⊙	
BLOW OFF VALVE	⊙	⊙	
STEEL ENCASMENT	⊙	⊙	
LUMINAIRES	⊙	⊙	
TRAFFIC CONDUIT	⊙	⊙	
TRAFFIC LIGHT	⊙	⊙	
PROPOSED ELECTRICAL SERVICE	⊙	⊙	
GROUND BOX	⊙	⊙	



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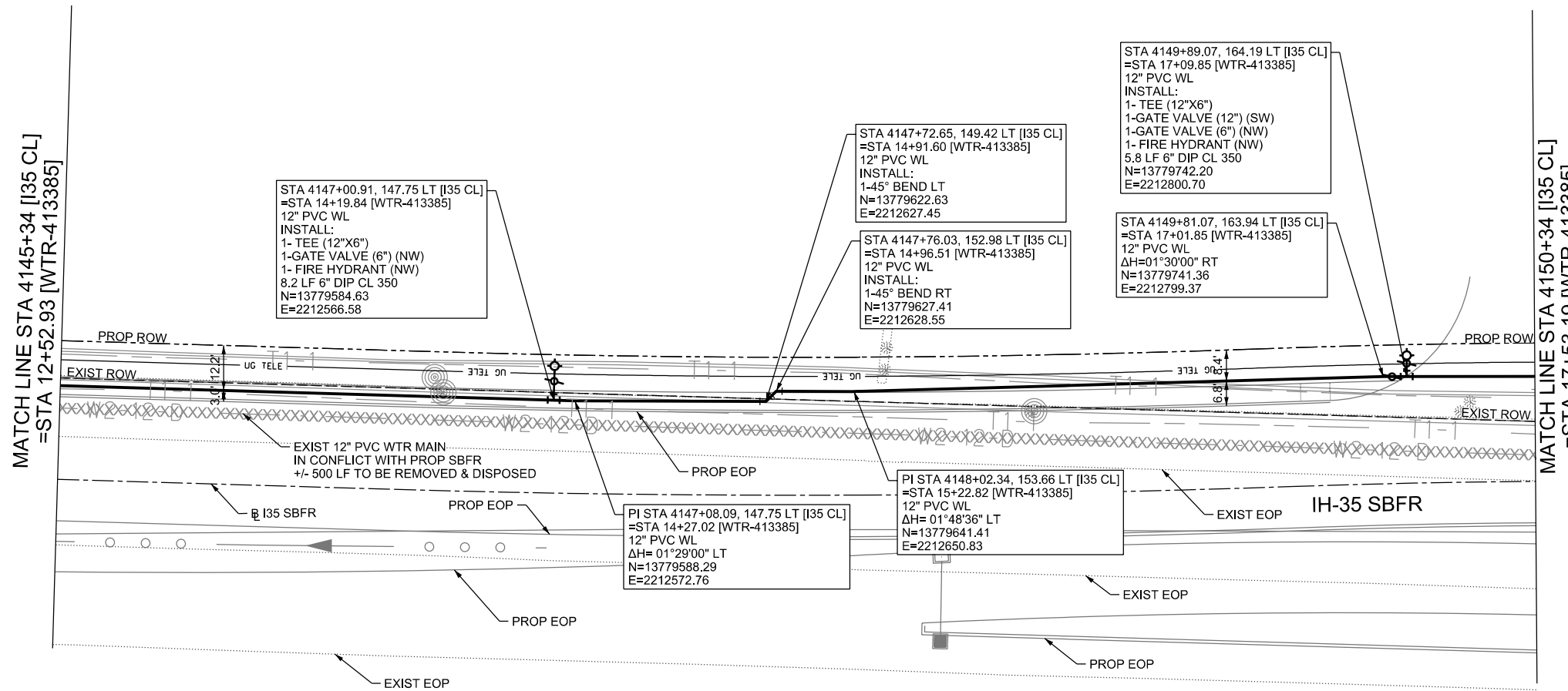
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IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4140+34 TO STA 4145+34

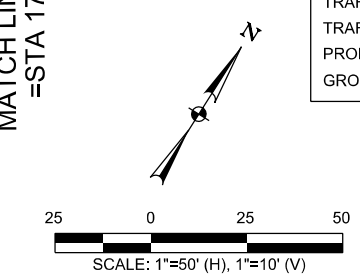
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2400
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
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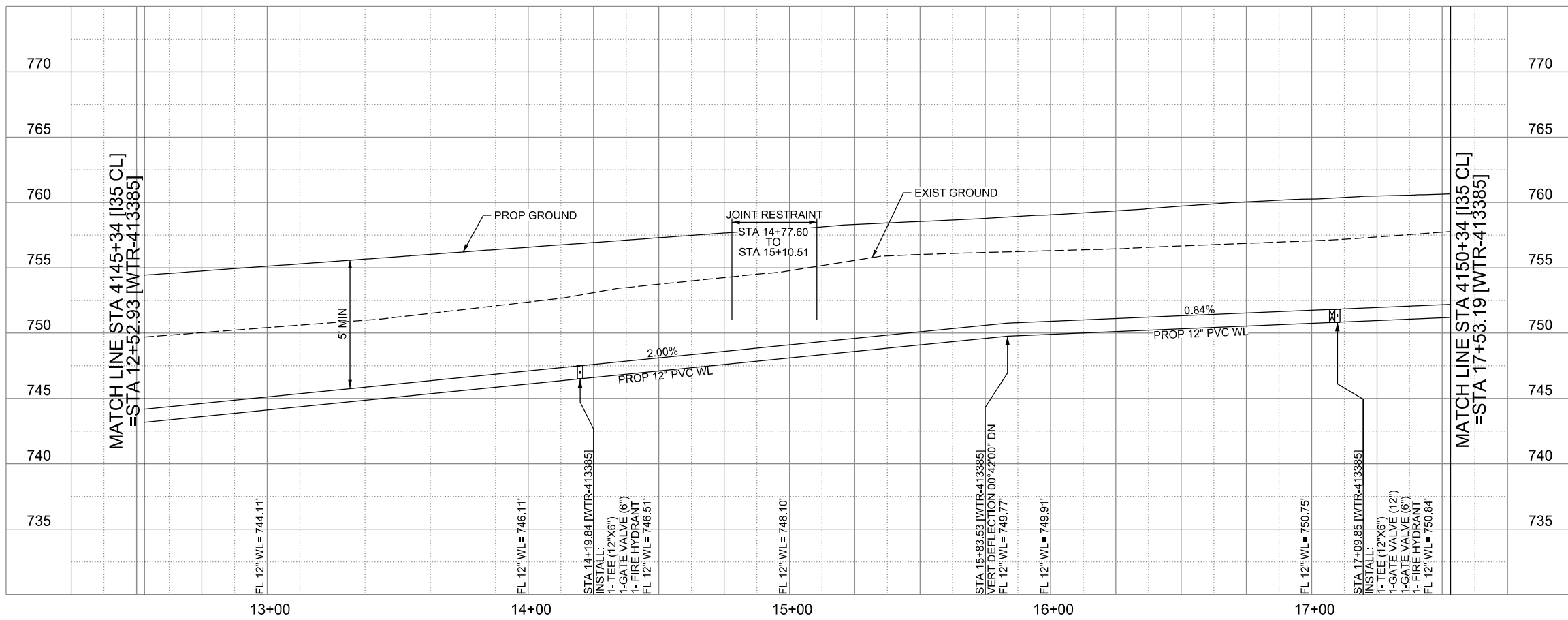
LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16' FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

WATER LINE "413385"
INSTALL 501 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT



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IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4145+34 TO STA 4150+34

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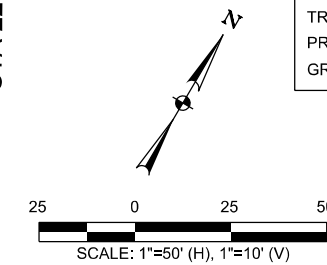
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CHECKED: PD, KA	NO.	TEXAS		2401
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

MATCH LINE STA 4150+34 [I35 CL]
=STA 17+53.19 [WTR-413385]

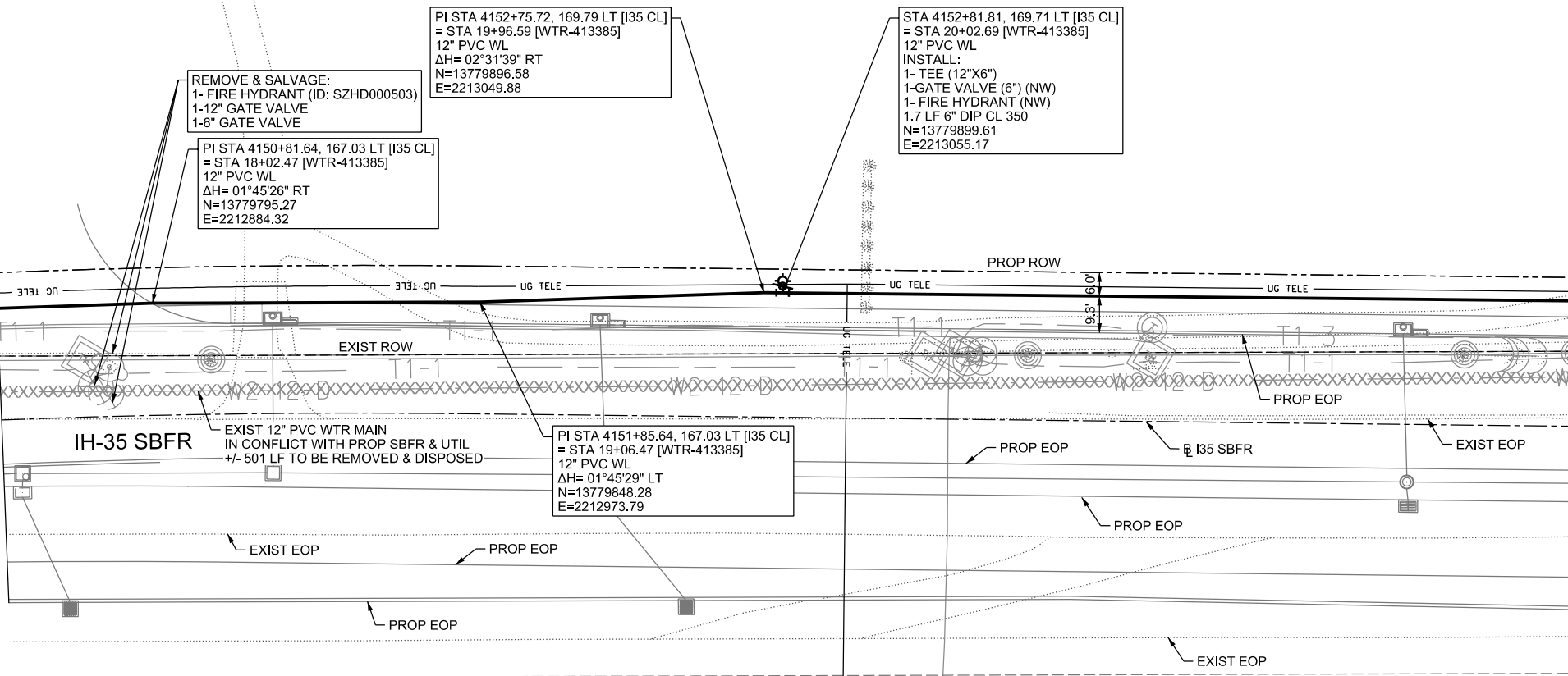
MATCH LINE STA 4155+34 [I35 CL]
=STA 22+55.08 [WTR-413385]

LEGEND

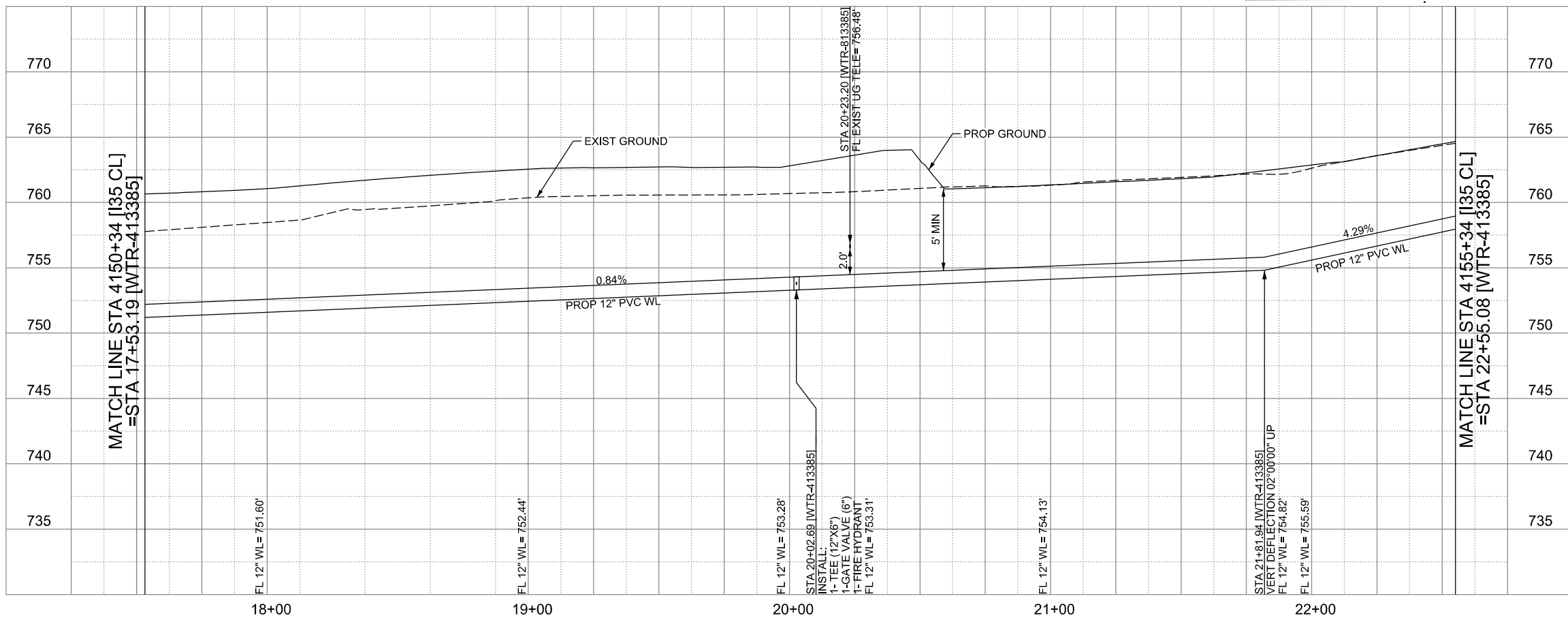
	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.



**WATER LINE "WTR-413385"
INSTALL 501 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFER, PE No. 107722, ON 10-07-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE. 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

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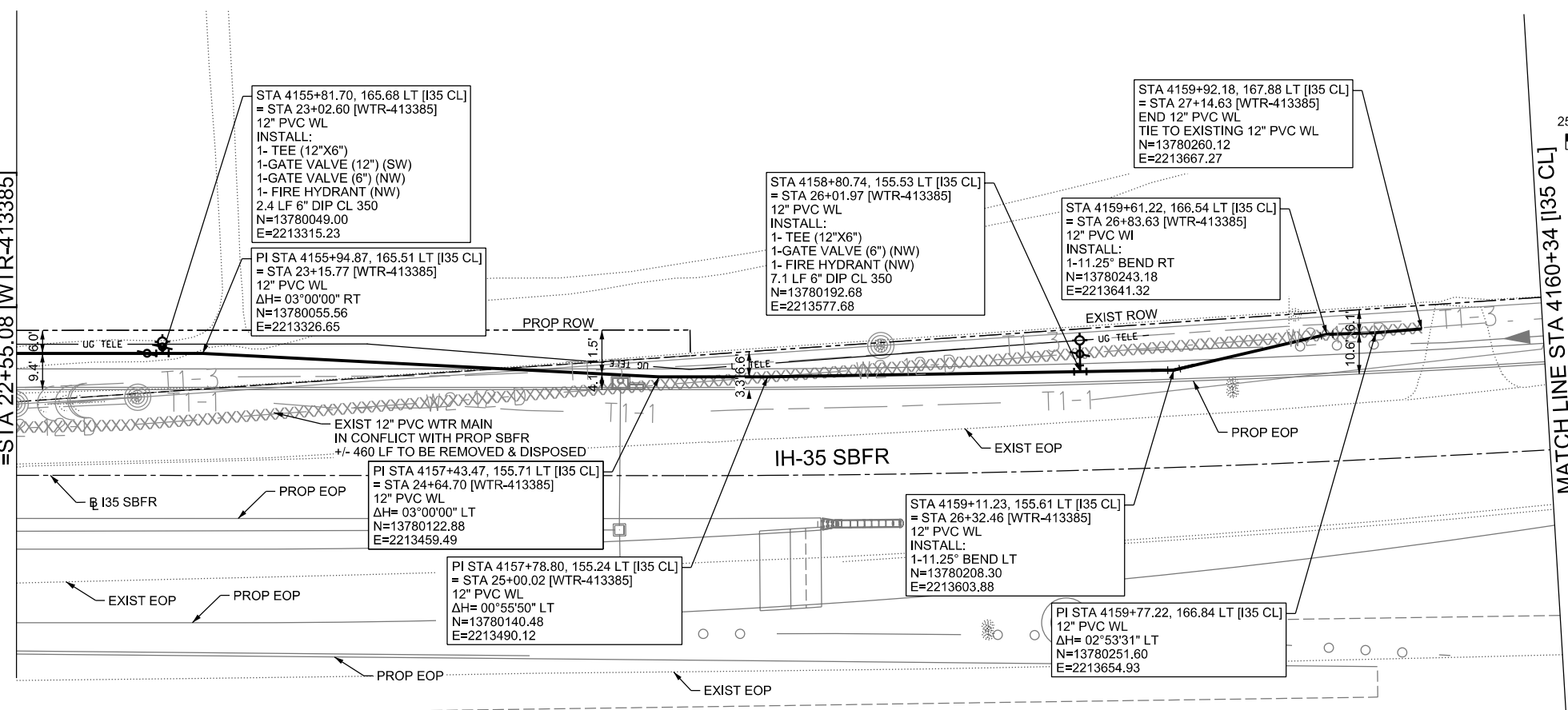
ih-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4150+34 TO STA 4155+34

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2402
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

MATCH LINE STA 4155+34 [I35 CL]
=STA 22+55.08 [WTR-413385]

MATCH LINE STA 4160+34 [I35 CL]

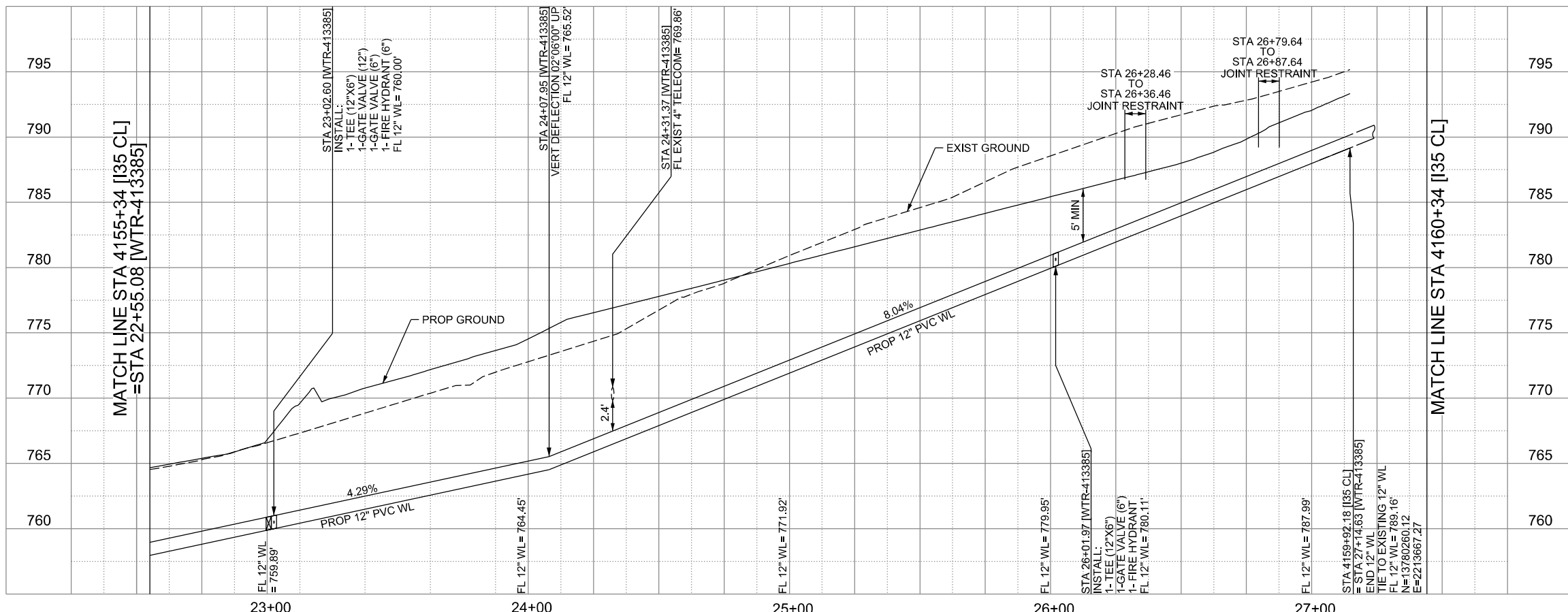


LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

**WATER LINE "WTR-413385"
INSTALL 460 LF 12" DIA. PVC C900 DR-14 BY OPEN CUT**



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

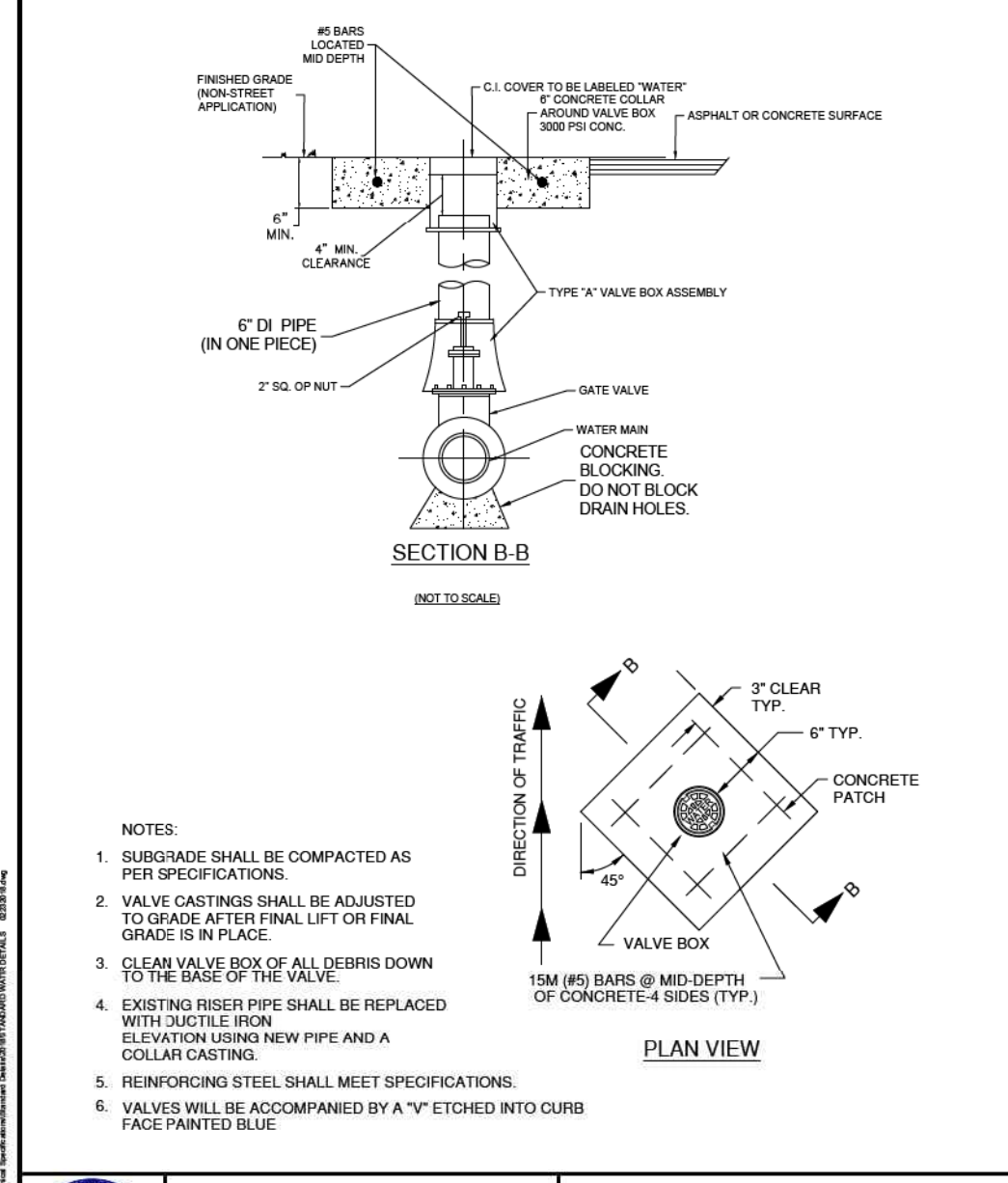
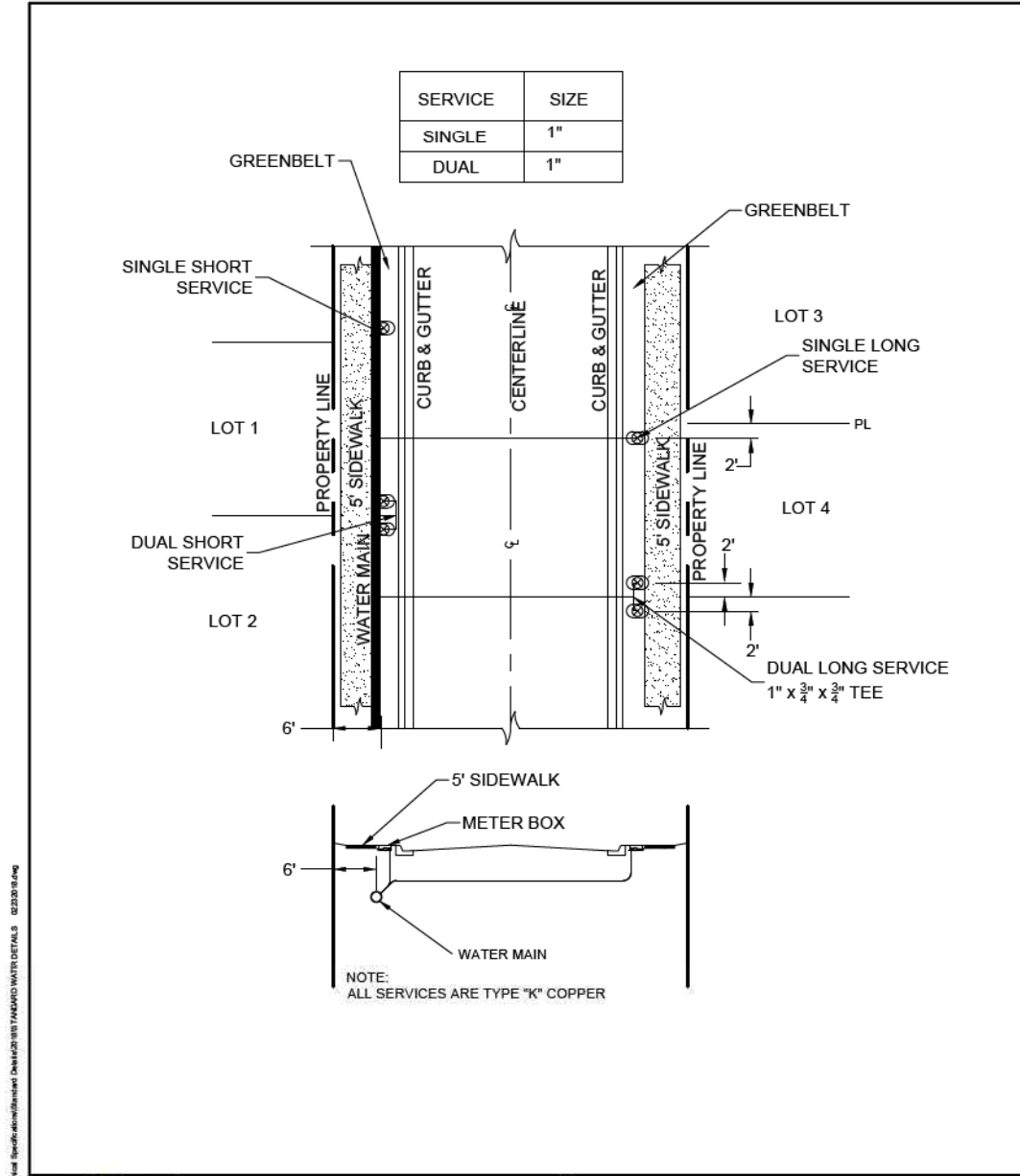
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IH-35NEX WATER RELOCATION PROJECT
WATER P&P - CL
STA 4155+34 TO STA 4160+34


Texas Department of Transportation
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2403
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

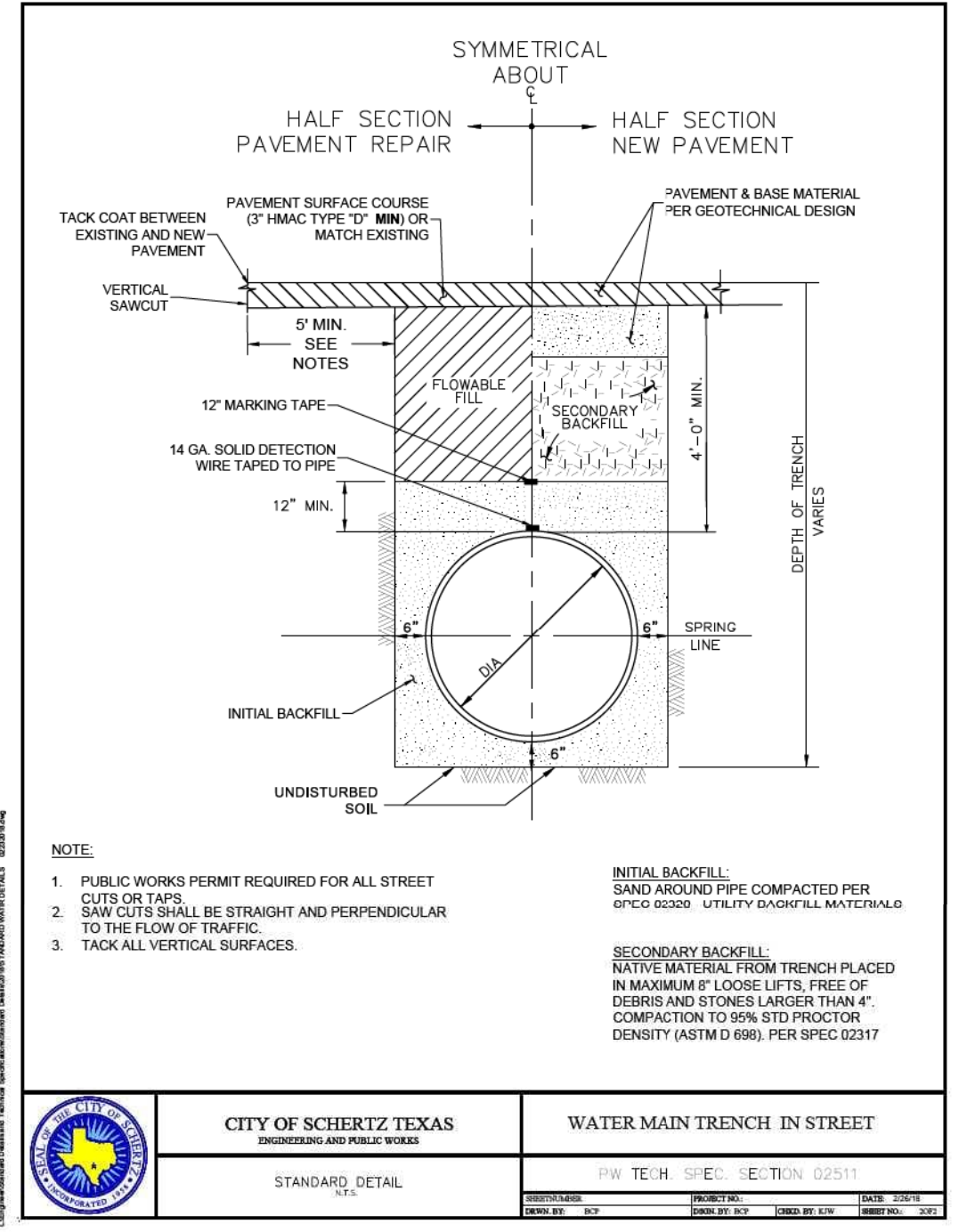
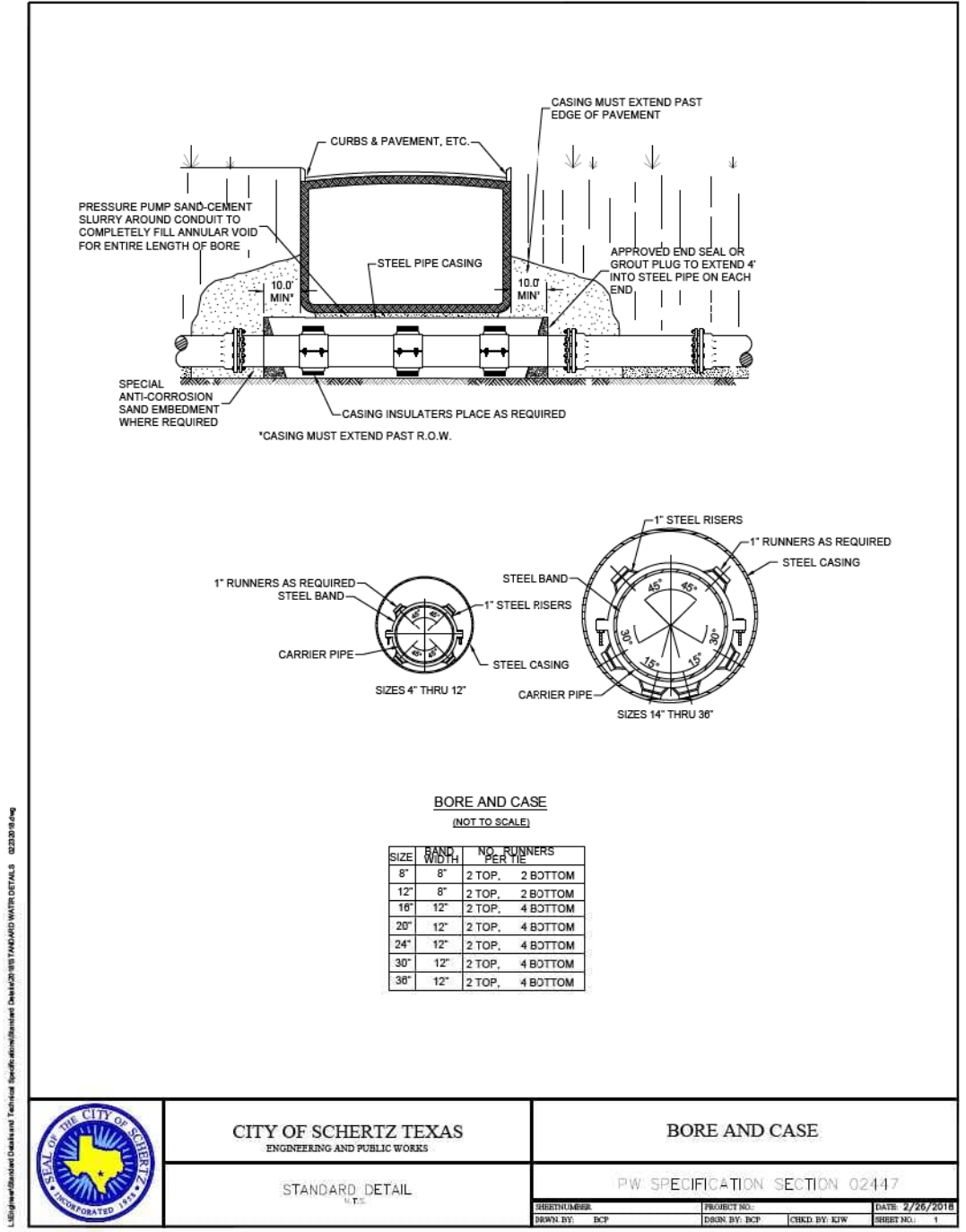


- NOTES:
1. SUBGRADE SHALL BE COMPACTED AS PER SPECIFICATIONS.
 2. VALVE CASTINGS SHALL BE ADJUSTED TO GRADE AFTER FINAL LIFT OR FINAL GRADE IS IN PLACE.
 3. CLEAN VALVE BOX OF ALL DEBRIS DOWN TO THE BASE OF THE VALVE.
 4. EXISTING RISER PIPE SHALL BE REPLACED WITH DUCTILE IRON ELEVATION USING NEW PIPE AND A COLLAR CASTING.
 5. REINFORCING STEEL SHALL MEET SPECIFICATIONS.
 6. VALVES WILL BE ACCOMPANIED BY A "V" ETCHED INTO CURB FACE PAINTED BLUE

	CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	METER BOX LOCATION
	STANDARD DETAIL N.T.S.	PW TECH. SPEC. SECTION 02085
SHEET NUMBER: DRWN BY: BCF	PROJECT NO.: DRWN BY: BCF	DATE: 2/26/18 CHKD BY: KJW SHEET NO.: 1 of 1

	CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	VALVE BOX
	STANDARD DETAIL N.T.S.	PW SPECIFICATION SECTION 02085
SHEET NUMBER: DRWN BY: BCF	PROJECT NO.: DRWN BY: BCF	DATE: 2/26/18 CHKD BY: KJW SHEET NO.: XX

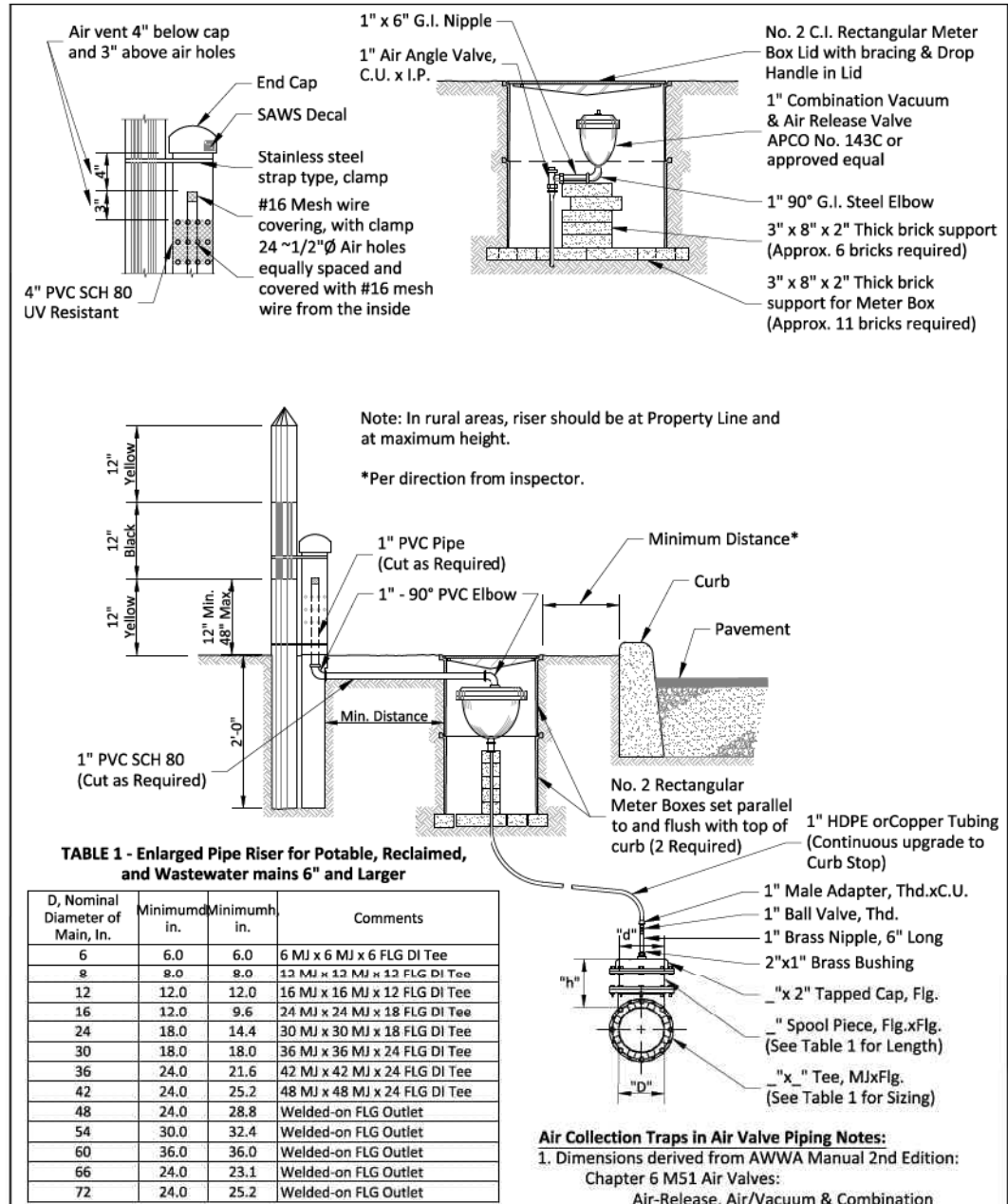
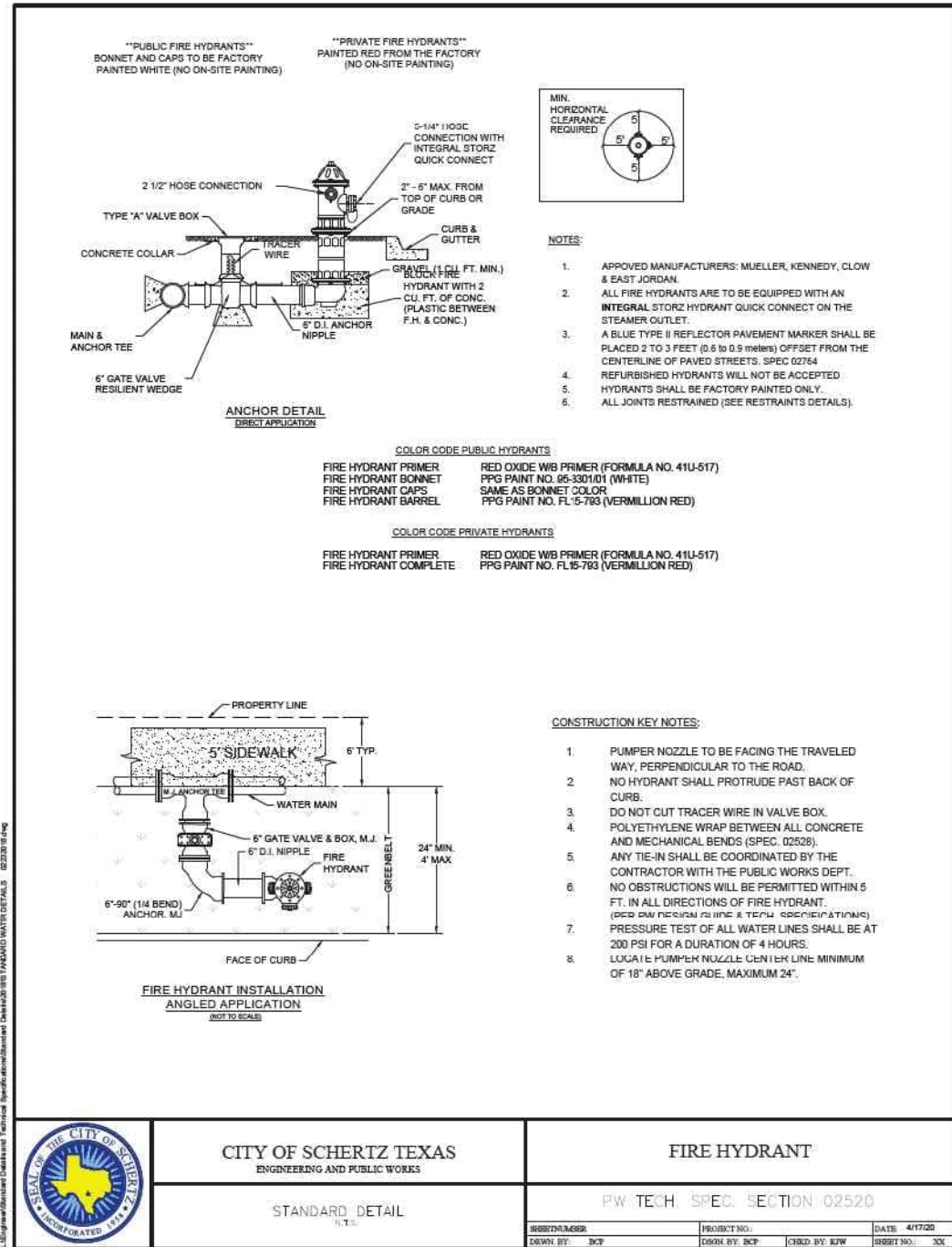
CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX WATER RELOCATION PROJECT		
					
Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS			2405
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



 CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	BORE AND CASE									
	PW SPECIFICATION SECTION 02447									
STANDARD DETAIL <small>N.T.S.</small>	<table border="1" style="width: 100%; font-size: 8px;"> <tr> <td>REVISION NUMBER</td> <td>PROJECT NO.</td> <td>DATE: 2/26/2018</td> </tr> <tr> <td>DRWN BY: ECP</td> <td>DRGN BY: ECP</td> <td>CHKD BY: KJW</td> </tr> <tr> <td></td> <td></td> <td>SHEET NO.: 1</td> </tr> </table>	REVISION NUMBER	PROJECT NO.	DATE: 2/26/2018	DRWN BY: ECP	DRGN BY: ECP	CHKD BY: KJW			SHEET NO.: 1
REVISION NUMBER	PROJECT NO.	DATE: 2/26/2018								
DRWN BY: ECP	DRGN BY: ECP	CHKD BY: KJW								
		SHEET NO.: 1								

 CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS	WATER MAIN TRENCH IN STREET									
	PW TECH. SPEC. SECTION 02511									
STANDARD DETAIL <small>N.T.S.</small>	<table border="1" style="width: 100%; font-size: 8px;"> <tr> <td>DESIGNER</td> <td>PROJECT NO.</td> <td>DATE: 2/26/18</td> </tr> <tr> <td>DRWN BY: ECP</td> <td>DRGN BY: ECP</td> <td>CHKD BY: EJV</td> </tr> <tr> <td></td> <td></td> <td>SHEET NO.: 202</td> </tr> </table>	DESIGNER	PROJECT NO.	DATE: 2/26/18	DRWN BY: ECP	DRGN BY: ECP	CHKD BY: EJV			SHEET NO.: 202
DESIGNER	PROJECT NO.	DATE: 2/26/18								
DRWN BY: ECP	DRGN BY: ECP	CHKD BY: EJV								
		SHEET NO.: 202								

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
 COMMUNITY • SERVICE • OPPORTUNITY			IH-35NEX WATER RELOCATION PROJECT		
 <small>TBPELS FIRM REGISTRATION #312</small>					
Texas Department of Transportation <small>© 2021</small>					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		2406	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	INSTALLATION OF 1" AIR RELEASE VALVE	APPROVED March 2008	REVISED August 2019
		DD-846-01	
		SHEET 1 OF 1	

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

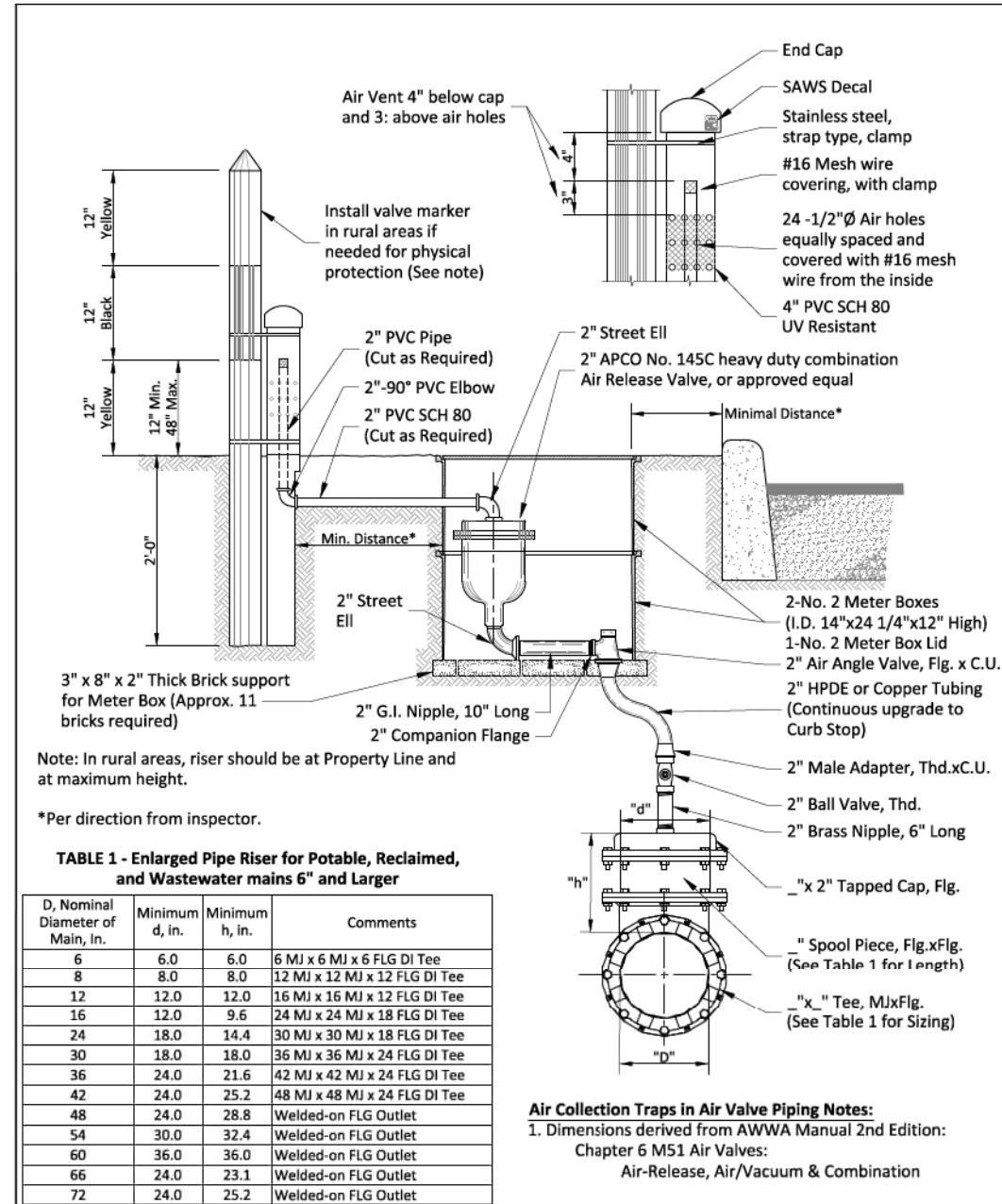
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TBPELS FIRM REGISTRATION #312

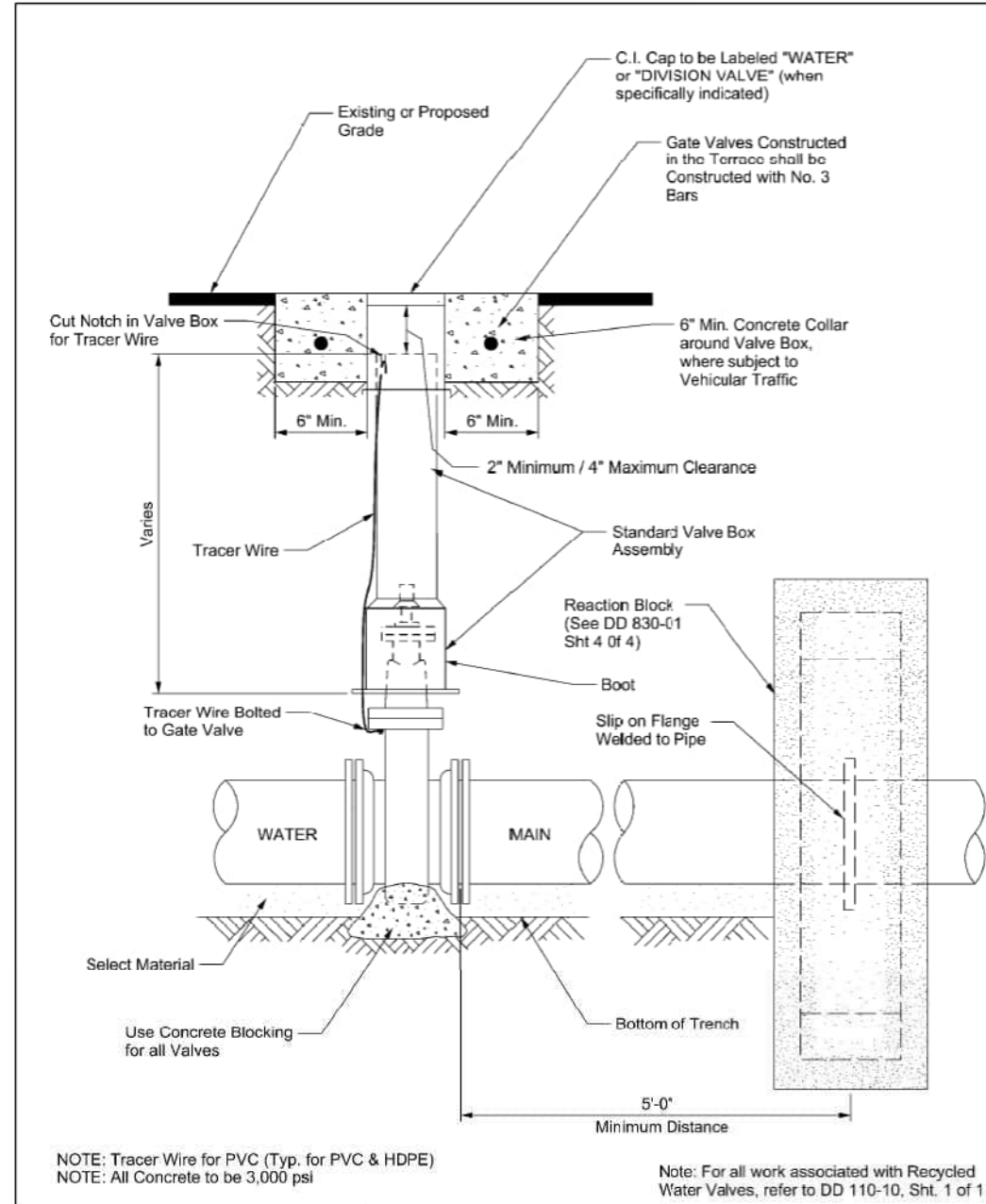
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IH-35NEX WATER RELOCATION PROJECT

DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		2409
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
			JOB NO.	111, ETC



PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	INSTALLATION OF 2" AIR RELEASE VALVE	APPROVED March 2008	REVISED August 2019
		DD-846-02	
		SHEET 1 OF 1	



PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	INSTALLATION OF NON-GEARED GATE VALVE WITH VALVE BOX AND EXTENSION	APPROVED MARCH 2008	REVISED AUG 2019
		DD 828-01	
		SHEET 1 OF 1	

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

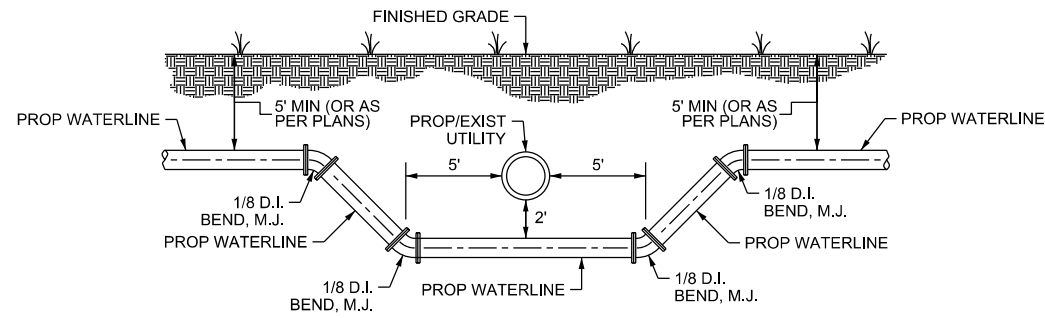
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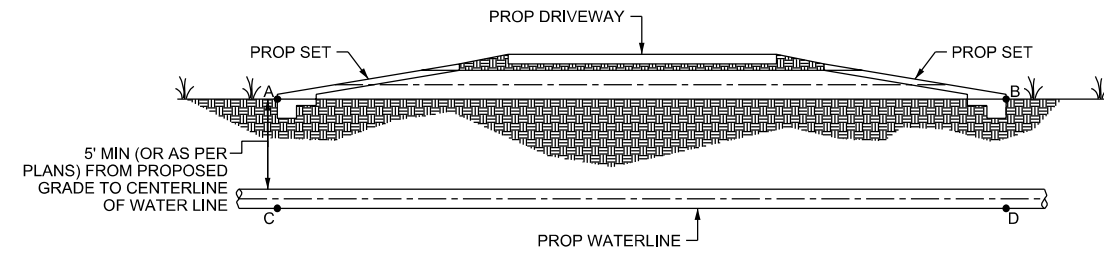
IH-35NEX
WATER
RELOCATION
PROJECT

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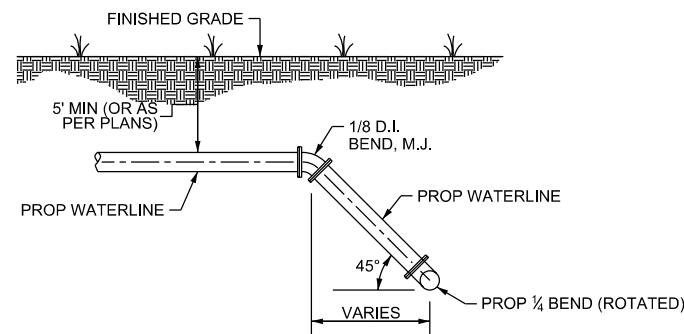
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CHECKED: PD, KA	SAT	COMAL	0016	05
			JOB NO.	111, ETC



TYPICAL UTILITY CROSSING DETAIL
N.T.S.

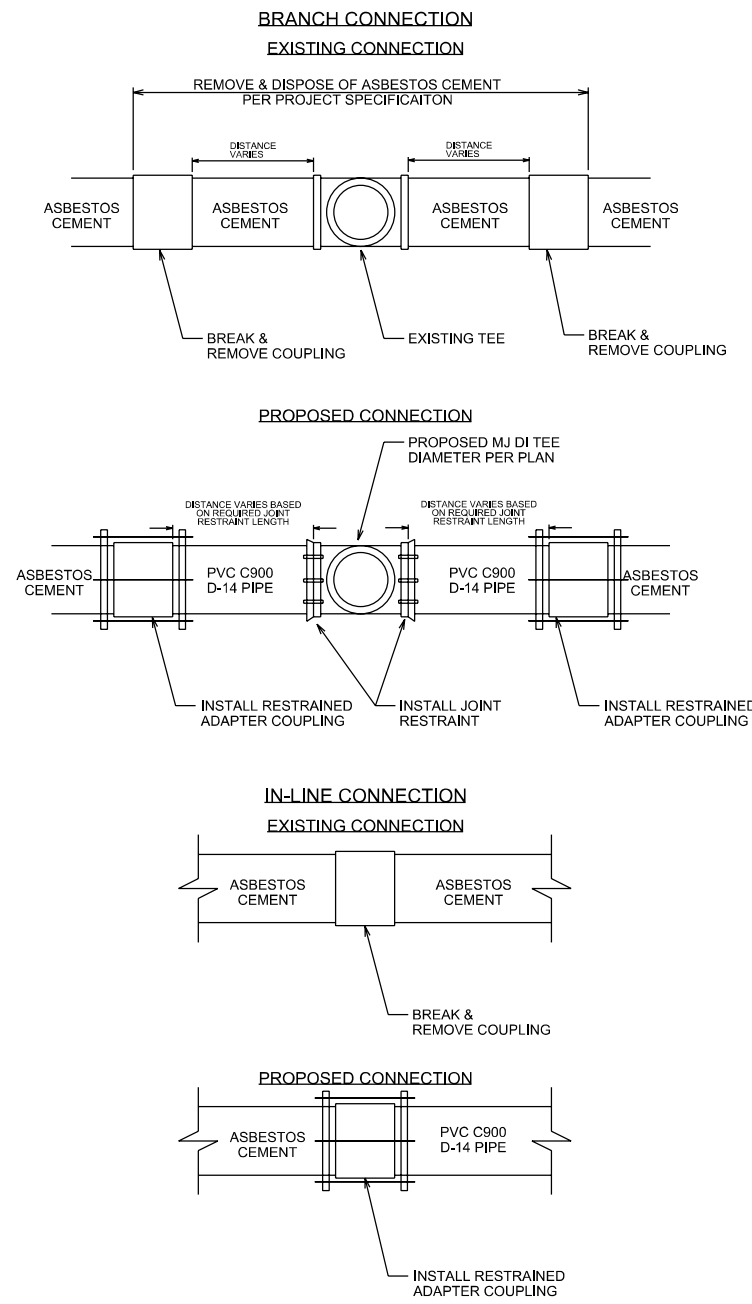


TYPICAL DRIVEWAY UTILITY CROSSING DETAIL
N.T.S.



ROTATED 90° BEND DETAIL
N.T.S.

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX WATER RELOCATION PROJECT		
			 © 2021		
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2411
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



ASBESTOS CEMENT PIPE CONNECTION DETAIL
 N.T.S.

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX WATER RELOCATION PROJECT		
Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			2412
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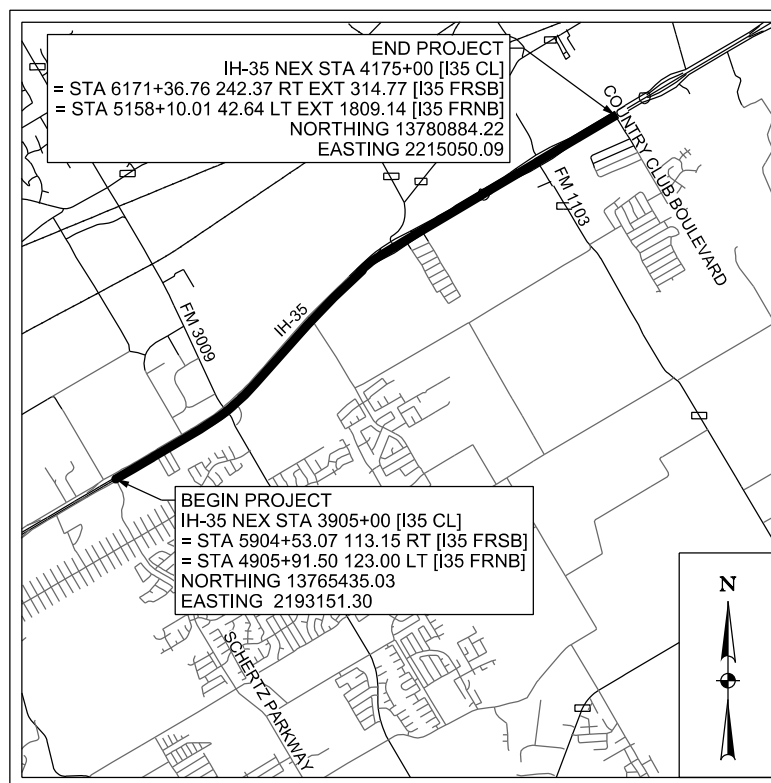


ENGINEERING & PUBLIC WORKS

IH-35 NEX NORTH
FROM SCHERTZ PARKWAY TO COUNTRY CLUB BOULEVARD
CITY OF SCHERTZ SANITARY SEWER RELOCATION



- Mayor.....Ralph Gutierrez
- Councilmember (Place 1).....Mark E. Davis
- Councilmember (Place 2).....Michelle Watson
- Councilmember (Place 3).....Paul Macaluso
- Councilmember (Place 4).....Tiffany Gibson
- Councilmember (Place 5).....Robert Westbrook
- Councilmember (Place 6).....Allison Heyward
- Councilmember (Place 7).....Tim Brown
- City Manager.....Steve Williams
- City Engineer.....Kathryn J. Woodlee, P.E., CFM



LOCATION MAP
N.T.S.

PREPARED BY:



TBPELS FIRM REGISTRATION #312
100 NE LOOP 410, SUITE 701
SAN ANTONIO, TEXAS 78216
TEL (210) 798-1895
FAX (210) 798-1896





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SHEET			GENERAL
	1		TITLE SHEET
	2		INDEX OF SHEETS
3	-	5	GENERAL NOTES
6	6	7	SANITARY SEWER QUANTITY SUMMARY
SHEET			SANITARY SEWER UTILITY SHEETS
8	-	11	SEWER PROJECT LAYOUTS
12	-	14	I35 SANITARY SEWER CROSSING PLAN AND PROFILE
15	-	22	NORTHBOUND SANITARY SEWER PLAN AND PROFILE
SHEET			STANDARDS
23	-	28	SANITARY SEWER STANDARD AND DETAILS



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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
 TBPELS FIRM REGISTRATION #312			IH-35NEX SEWER RELOCATION PROJECT		
			INDEX OF SHEETS		
 Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		2	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

GENERAL NOTES

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
2. CONTRACTOR SHALL NOTIFY THE ENGINEER AND ALL RESPECTIVE GOVERNMENTAL OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION 72 HOURS PRIOR TO STARTING CONSTRUCTION. ANY TIE-IN SHALL BE COORDINATED BY THE CONTRACTOR WITH THE PUBLIC WORKS DEPARTMENT, AT LEAST 48 HOURS IN ADVANCE.
3. CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.
4. ANY DISCREPANCY OR CONFLICT WITHIN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE CITY. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ENGINEERS ATTENTION AND CLARIFIED DURING BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ENGINEERS INTERPRETATION. ALL ITEMS, WORK, AND IMPROVEMENTS SHOWN OR INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE COMPLETED FOR THE PRICES BID, WHETHER OR NOT A SEPARATE PAY ITEM IS INCLUDED IN THE CONTRACT.
5. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS THROUGH THE COURSE OF CONSTRUCTION AND SHALL SUBMIT SAME TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE WORK BY OWNER.
6. THE CITY OF SCHERTZ WILL EMPLOY AN INDEPENDENT TESTING LABORATORY FOR REQUIRED COMPACTION AND OTHER MATERIALS TESTING. TXDOT CONTRACTOR WILL COORDINATE WITH INDEPENDENT LABORATORY FOR PROJECT ACCESS AND TESTING LOCATIONS. EMPLOYMENT OF A TESTING LABORATORY BY THE CONTRACTOR SHALL NOT RELIEVE CONTRACTOR OF ITS OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL FURNISH ALL ASSISTANCE REQUIRED OF HIM BY ALL INSPECTORS IN OBTAINING SAMPLES AT THE EXPENSE OF THE CONTRACTOR.
8. IF IN THE OPINION OF THE INSPECTOR, BASED ON TESTING SERVICE REPORTS AND INSPECTION, MATERIALS, COMPACTION OR ANY OTHER SPECIFICATIONS ARE BELOW THE SPECIFIED REQUIREMENTS THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AND RE-TEST TO OBTAIN THE SPECIFIED PARAMETERS AT NO ADDITIONAL EXPENSE.
9. FOR ALL PAVEMENT LAYERS, A PASSING TEST RESULT IS REQUIRED WITHIN 48 HOURS OF PLACING THE NEXT LAYER OR RETESTING WILL BE REQUIRED.
10. DESIGN AND CONSTRUCTION STANDARDS REQUIRED:
 - A. PROJECT CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS, & DESIGN REPORTS.
 - B. CITY OF SCHERTZ PUBLIC WORKS SPECIFICATION MANUAL.
 1. PUBLIC WORKS DESIGN GUIDE.
 2. PUBLIC WORKS TECHNICAL SPECIFICATIONS.
 3. STANDARD DETAILS.
11. UNLESS OTHERWISE SHOWN IN THESE PLANS, SIDEWALKS WILL BE CONSTRUCTED CONCURRENT WITH MAIN LOT STRUCTURE.
12. ROUGH GRADING MUST BE DONE ON ALL LOTS PRIOR TO SUBDIVISION PRELIMINARY ACCEPTANCE.
13. ALL PAVEMENTS, DRIVEWAYS, SIDEWALKS, CURBING, GUTTERS, FENCES, POLES, MAILBOXES, SIGNS, TREES, SHRUBBERY, LAWNS, SOD OR OTHER PROPERTY AND SURFACE STRUCTURES ON OR ADJACENT TO THE PROJECT SITE NOT SHOWN TO BE REMOVED IN PLANS, THAT ARE DAMAGED, DISTURBED, REMOVED OR DESTROYED BY THE CONTRACTOR DURING THE WORK SHALL BE REPLACED OR RETURNED TO A CONDITION EQUAL TO THAT BEFORE THE WORK BEGAN. CONTRACTOR TO SUPPORT AND KEEP INTACT STORM DRAINS AND INLET STRUCTURES. ANY DAMAGES INCURRED WILL BE AT CONTRACTOR'S EXPENSE.

GENERAL NOTES

PUBLIC WORKS CONSTRUCTION SPECIFICATIONS

ENGINEERING AND PUBLIC WORKS SCALE: 1"=15' DATE: 7/1/19
 DESIGNED BY: BSG DRAWN BY: BCF SHEET NO.: 1 OF 6

UTILITIES

14. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
15. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED IN THESE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL CONTACT ANY UTILITIES ENCOUNTERED FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION.
16. THE FOLLOWING IS A LIST OF TELEPHONE NUMBERS OF THE UTILITY LOCATORS FOR THE VARIOUS UTILITIES THAT MAY BE ENCOUNTERED:

TEXAS ONE CALL	1-800-245-4545 (1-800-DIG-TESS)
C.C.M.A.	210-658-6241
CITY PUBLIC SERVICE	1-800-545-6005
CENTERPOINT ENERGY ENTEX	(210)-659-6788
G.V.E.C	(210)-672-2871
NEW BRAUNFELS UTILITY	(830)-629-8400
TIME WARNER CABLE	(210)-352-4472
AT&T	1-800-828-5127
TxDOT NEW BRAUNFELS	1-800-644-4773
CITY OF SCHERTZ PUBLIC WORKS DEPT	(210)-619-1800
GREEN VALLEY WATER DISTRICT	(830)-914-2330
SCHERTZ SEGUIN LOCAL GOV'T CORP	(830)-401-2409
GREEN VALLEY TELEPHONE COMPANY	(830)-885-8277
GREEN VALLEY SPECIAL UTILITY DISTRICT	(831)-914-2330
17. NO VALVES IN THE OWNER'S WATER DISTRIBUTION SYSTEM SHALL BE OPERATED BY THE CONTRACTOR WITHOUT PRIOR PERMISSION OF THE OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN A VALVE IS TO BE OPERATED AND SHALL ONLY OPERATE THE VALVE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. COORDINATE ALL SHUTDOWN OF MAINS FOR TIE-INS WITH OWNER 72 HOURS PRIOR TO WORK BEING COMPLETED. THE CONTRACTOR SHALL INSPECT THE MATERIALS FOR DEFECTS AT THE TIME THEY ARE UNLOADED, AND ANY MATERIALS FOUND DEFECTIVE SHALL BE REMOVED FROM THE SITE. ALL WATER WORKS MATERIAL OR SCRAP OF WHATEVER NATURE REMOVED BY THE CONTRACTOR IN THE COURSE OF THE WORK SHALL REMAIN THE PROPERTY OF THE OWNER. SALVAGED MATERIALS SHALL BE DELIVERED TO AND UNLOADED AT THE CITY PUBLIC WORKS DEPARTMENT BY THE CONTRACTOR UNDER OBSERVATION OF AND AT THE DIRECTION OF THE OWNER. ITEMS TOO HEAVY TO BE HANDLED MANUALLY WILL BE UNLOADED BY EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS UNTIL THEY HAVE BEEN TURNED IN TO THE OWNER AND UNTIL A RECEIPT FOR THEM HAS BEEN ISSUED BY THE OWNER.
18. NO TIE-IN SHALL BE MADE TO THE EXISTING UTILITY SYSTEM UNTIL ALL TEST RESULTS HAVE BEEN PROVIDED TO THE CITY AND ARE VERIFIED.
19. PRIOR TO TESTING, ANY CONNECTION TO THE CITY'S WATER SUPPLY SHALL BE THROUGH AN APPROVED AND TESTED BACKFLOW DEVICE.
20. PLUG EXISTING SEWER BEFORE INSTALLING ANY NEW SEWER MAIN.
21. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT EXISTING SANITARY SEWER LATERALS AND WATER SERVICES SHOWN IN PLANS. ANY REPAIRS TO BE MADE AT CONTRACTORS EXPENSE.
22. PROVIDE BLUE PANTED "V" ETCHED IN CURB TO IDENTIFY VALVES. PROVIDE BLUE PANTED "X" ETCHED IN CURB TO IDENTIFY METER BOXES.
23. NEW WATER MAINS TO BE PVC C900 DR14, UNLESS OTHERWISE SHOWN IN PLANS AND APPROVED BY PUBLIC WORKS OR ENGINEERING. HYDROSTATIC TESTING WILL BE PERFORMED UNDER THE SUPERVISION OF THE CITY INSPECTOR, PER STANDARD SPECIFICATION 02515 AT 200 PSI FOR 4 HOURS.
24. CONTRACTORS SHOULD USE HTH FOR DISINFECTION OF WATER LINES (NOT CHLORINE INJECTION) UNLESS APPROVED OTHERWISE PRIOR TO ISSUANCE OF PERMIT.
25. NEW WATERLINES SHALL BE TIED INTO EXISTING WATER SYSTEM UNDER THE SUPERVISION OF CITY PERSONNEL NO LATER THAN 14 DAYS AFTER PASSING BACTERIOLOGICAL TESTS.
26. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO OVERFLOWS OR SPILLAGE OF SEWER OCCURS. SHOULD THIS OCCUR, THE CONTRACTOR SHALL:
 - A. IDENTIFY THE SOURCE OF THE SPILL AND ATTEMPT TO ELIMINATE ANY ADDITIONAL SPILLAGE.
 - B. NOTIFY THE CITY OF SCHERTZ PUBLIC WORKS.
 - C. CONTAIN THE SPILL IN PLACE AND AVOID CONTAMINATION OF STREAMS.
 - D. DISINFECT THE AREA OF THE SPILL WITH A MIXTURE OF HTH CHLORINE AND WATER.
 - E. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY OF SCHERTZ.
27. CONTRACTOR TO PROVIDE NOTICE TO RESIDENTS OF SHUTDOWN OF MAIN. CONTRACTOR TO NOTIFY RESIDENTS OF WORK WITHIN THEIR PROPERTY AND OF THE RELOCATION OF METERS. ANY COMPLAINTS BY RESIDENTS ARE TO BE PASSED IMMEDIATELY TO THE CITY INSPECTOR OR TO THE MAIN PUBLIC WORKS OFFICE. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING SANITARY SEWER LATERALS SHOWN IN PLANS. ANY REPAIRS TO BE MADE AT CONTRACTORS EXPENSE.
28. ABANDONED CUSTOMER LINES SHALL BE CAPPED OR PLUGGED AT THE PROPERTY LINE.
29. ASBESTOS PIPE REMOVAL AND DISPOSAL IS THE CONTRACTORS RESPONSIBILITY.

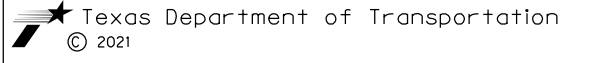
GENERAL NOTES - UTILITIES

TECHNICAL SPECIFICATION SECTION 01732

ENGINEERING AND PUBLIC WORKS SCALE: 1"=15' DATE: 7/1/19
 DESIGNED BY: BSG DRAWN BY: BCF SHEET NO.: 1 OF 6

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

IH-35NEX
SEWER
RELOCATION
PROJECT



DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		3	
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

GENERAL WATER NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL BE APPROVED BY THE CITY OF SCHERTZ AND COMPLY WITH THE FOLLOWING AS APPLICABLE:
 - a. CURRENT CITY OF SCHERTZ "UNIFIED DEVELOPMENT CODE"
 - b. CURRENT CITY OF SCHERTZ "PUBLIC WORKS SPECIFICATION MANUAL"
 - c. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND DRAINAGE."
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY HAVE NOTIFIED CITY OF SCHERTZ PUBLIC WORKS WITH AT LEAST **3 WORKING DAYS (72 HOURS) NOTICE**. ANY TIE-IN SHALL BE COORDINATED BY THE CONTRACTOR WITH PUBLIC WORKS.
3. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS, AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION.
 - a. CITY OF SCHERTZ PUBLIC WORKS (210) 619-1800
 - b. TEXAS STATE WIDE ONE CALL 1-800-245-4545
 - c. CITY PUBLIC SERVICE 210-353-5952
 - d. SPECTRUM 866-874-2389
 - e. GUADALUPE VALLEY ELECTRIC CO. 210-658-7033
 - f. GREEN VALLEY WATER SUPPLY CORP. (830-914-2330)
 - g. SSLGC 830-401-2409
 - h. NEW BRAUNFELS UTILITY 830-606-2074
 - i. CANYON LAKE REGIONAL WATER AUTHORITY 830-609-0543
 - j. CENTER POINT 888-876-5786
 - k. SAN ANTONIO RIVER AUTHORITY (866-345-7272)
 - l. CCMA 210-658-6241
4. **NO METER BOXES TO BE SET IN DRIVEWAYS. ANY METER BOXES SET IN DRIVEWAYS WILL BE RELOCATED AT THE CONTRACTOR'S AND / OR DEVELOPER'S EXPENSE.**
5. 2", SCHEDULE 40, PVC CASING TO BE USED FOR ALL WATER SERVICE LINES BENEATH ROADWAYS.
6. CONTRACTORS SHOULD USE HTH GRANULAR FOR DISINFECTION OF WATER LINES (NOT CHLORINE INJECTION).

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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

CONSTRUCTION PLAN NOTES

STANDARD DETAIL
N.T.S.

PW TECH. SPEC. SECTION 01145

SHEET NUMBER	PROJECT NO.	DATE
DRWN. BY: BCP	DRGN. BY: BCP	CHEK. BY: KJW
		SHEET NO. 1 of 2

GENERAL WATER NOTES CONT':

7. NEW WATERLINES SHALL BE TIED INTO EXISTING WATER SYSTEM UNDER THE SUPERVISION OF CITY PERSONNEL NO LATER THAN 14 DAYS AFTER PASSING BACTERIOLOGICAL TESTS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION FROM DAMAGE DONE TO EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, LANDSCAPING AND STRUCTURES PER SPECIFICATION 01740.
9. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY ARBORIST AND THE CITY OF SCHERTZ CONSTRUCTION INSPECTOR FOR GUIDANCE.
10. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.
11. THE DEVELOPER DEDICATES THE WATERMANS UPON COMPLETION BY THE DEVELOPER AND ACCEPTANCE BY THE CITY OF SCHERTZ. THE CITY OF SCHERTZ WILL OWN AND MAINTAIN SAID WATER MAINS WHICH ARE LOCATED WITHIN THIS PARTICULAR SUBDIVISION (AS APPLICABLE).
12. THE CONTRACTOR AND/OR THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.
13. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE CITY OF SCHERTZ CONSTRUCTION INSPECTOR WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.
14. THE CONTRACTOR WILL KEEP THE AREA ON TOP OF AND AROUND THE METER BOX FREE OF ALL OBJECTS AND DEBRIS

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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

CONSTRUCTION PLAN NOTES

STANDARD DETAIL
N.T.S.

PW TECH. SPEC. SECTION 01145

SHEET NUMBER	PROJECT NO.	DATE
DRWN. BY: BCP	DRGN. BY: BCP	CHEK. BY: KJW
		SHEET NO. 2 of 2

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

IH-35NEX
SEWER
RELOCATION
PROJECT



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DGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		4
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

GENERAL CONSTRUCTION NOTES:

- 1) ALL IMPROVEMENTS TO BE IN ACCORDANCE WITH CITY OF SCHERTZ CODES. ALL TRAFFIC CONTROL / TRAFFIC SAFETY SHOULD BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CRITERIA CURRENT CONDITIONS.
- 2) CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- 3) CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS AND DRIVEWAYS AFFECTED BY CONSTRUCTION OF UTILITIES.
- 4) CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, AND SIGNALS FOR THE SAFETY OF THE PUBLIC AND WORKERS, AS REQUIRED.
- 5) CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION AND/OR SAFETY OF THE WORK SITE, WORKERS, SUBCONTRACTORS, MATERIALS AND/OR EQUIPMENT.
- 6) ALL DIMENSIONS ARE BASED ON PROPOSED ROADWAY CENTER LINE UNLESS SHOWN OR OTHERWISE NOTED.
- 7) CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER FOR ALL CITY, STATE, AND FEDERAL PERMITS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 8) ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER
- 9) *THESE PLANS, PREPARED BY HALFF DO NOT EXTEND TO OR INCLUDE DESIGN OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF REGISTERED PROFESSIONAL ENGINEER (S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 622 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70-TH LEGISLATURE REGULAR SESSION.*
- 10) CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY AND ALL EXCAVATIONS.
- 11) CONTRACTOR TO COORDINATE WITH THE CITY OF SCHERTZ ON WORK SCHEDULES, TESTING, GENERAL INSPECTION.
- 12) CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR EXISTING FACILITIES AND/OR UTILITIES.
- 13) INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED PRIOR TO CONSTRUCTION.
- 14) ALL EXCESS EARTHEN MATERIAL SHALL BE DISPOSED OFFSITE IN A LEGAL MANNER AT THE CONTRACTORS EXPENSE.
- 15) UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS.
- 16) CONCRETE NOTES:
 A) ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED.
 B) ALL CONCRETE TO BE 3000-PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
 C) ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.
 D) ALL EXPOSED CONCRETE WORK TO BE CHAMFERED.
- 17) DEMOLITION, REMOVAL & DISPOSAL OF ALL EXCESS CONCRETE, RUBBLE, WATER OR SEWER STRUCTURES, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
- 18) DEWATERING, IF NECESSARY, SHALL BE SUBSIDIARY TO COST PIPE.

WASTEWATER COLLECTION LINE CONSTRUCTION NOTES:

- 1) ALL PROPOSED SEWER LINES WILL BE SDR 26 PIPE MATERIAL (UNLESS OTHERWISE NOTED).
- 2) CONTRACTOR TO PROVIDE DEFLECTION TEST IN ACCORDANCE WITH TCEQ CHAPTER 217.57 (b). MANDREL TO BE PULLED IN BOTH DIRECTIONS.
- 3) CONTRACTOR TO PROVIDE LOW PRESSURE AIR TEST IN ACCORDANCE WITH TCEQ CHAPTER 217.57 (a), (1). 30 DAYS AFTER INSTALLATION. NO WATER TEST ALLOWED.
- 4) CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES & FACILITIES PRIOR TO CONSTRUCTION.
- 5) ALL CROSSING OF WASTEWATER COLLECTION LINES AND WATERLINES CONSTRUCTED IN ACCORDANCE WITH TCEQ REGULATIONS CHAPTER 290 AND 217.
- 6) CONTRACTOR TO PROVIDE LEAKAGE TEST FOR MANHOLE IN ACCORDANCE WITH TCEQ CHAPTER 217.58 (a), (b) OF THE STATE WASTEWATER CODE NO WATER TEST ALLOWED.

- 7) ALL WASTEWATER CONSTRUCTION SHALL BE IN COMPLIANCE WITH TCEQ REGULATIONS 217
- 8) ALL TESTING OF PIPE AND MANHOLES SHALL BE SUBSIDIARY TO COST OF PIPE.
- 9) POST CONSTRUCTION VIDEOS SHALL BE SUBSIDIARY TO COST OF PIPE.
- 10) CONTRACTOR TO SUBMIT A SEWER BYPASS PLAN, SIGNED AND SEALED BY A LICENSED ENGINEER IN TEXAS PRIOR TO CONSTRUCTION OF ANY SEWER IMPROVEMENTS.
- 11) THE VALVE BOX SHALL BE PLACED IN SUCH A MANNER TO PREVENT SHOCK OR STRESS BEING TRANSMITTED TO THE VALVE.
- 12) ALL VALVES SHALL HAVE OPERATIONAL NUT WITHIN SIX FEET OF FINISH ELEVATION.
- 13) THE CONTRACTOR SHALL INSTALL FULLY ADJUSTABLE VALVE BOX AND VALVE KEY EXTENSION SYSTEMS, ON ALL VALVES LOCATED BETWEEN 6 FEET AND 13 FEET.
- 14) ADJUSTABLE VALVE BOX AND VALVE KEY EXTENSION SYSTEMS SHALL BE CENTERED OVER THE VALVE'S OPERATING NUT WITH THE BOX COVER FLUSH WITH THE FINISHED PAVEMENT SURFACE OR LOCATED AT ANOTHER LEVEL AS DIRECTED BY THE ENGINEER.
- 15) VALVE BOXES LOCATED IN STREETS OR OTHER AREA SUBJECT TO VEHICULAR TRAFFIC SHALL BE PROVIDED WITH CONCRETE COLLARS AS SHOWN IN THESE STANDARD DRAWINGS.
- 16) COLLARS AROUND SUCH VALVE BOXES SHALL BE FORMED AND FINISHED OFF NEATLY AND IN A SOUND WORKMANLIKE MANNER.
- 17) ALL VALVES OUTSIDE OF PAVEMENT AREA MAYBE SUBJECT TO VALVE MARKER AT THE DIRECTION OF THE INSPECTOR AT NO ADDITIONAL PAYMENT.
- 18) IN HIGH PRESSURE ZONES, ALL VALVES 6 INCHES AND LARGER SHALL BE SUPPORTED ON A CONCRETE PAD IN ACCORDANCE WITH STANDARD DRAWINGS DD-828 SERIES.
- 19) CONTRACTOR WILL USE FITTINGS TO RAISE RAISE FIRE HYDRANT LEAD TO MINIMUM DEPTH OF 5 FEET BETWEEN THE TEE CONNECTION AND THE FIRE HYDRANT GATE VALVES.

SPECIAL NOTES (PAY ITEMS):

- 1) ALL MATERIALS CALLED OUT ON PLANS TO BE SALVAGED SHALL BE A NO SEPARATE PAY ITEM (NSPI)
- 2) TESTING OF SEWER ELEMENTS SHALL BE SUBSIDIARY TO THE COST OF THE ITEM. TESTING SHALL BE A NO SEPARATE PAY ITEM.
- 3) SEWER BYPASS PUMPING SHALL BE SUBSIDIARY TO COST OF SEWER INSTALLATION. NO SEPARATE PAY ITEM.





THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 11-18-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC., 100 N.E. LOOP 410 SUITE, 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
			IH-35NEX SEWER RELOCATION PROJECT		
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		5	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



SANITARY SEWER SUMMARY

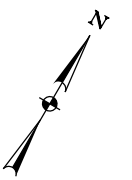
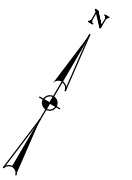
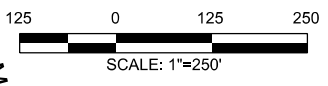
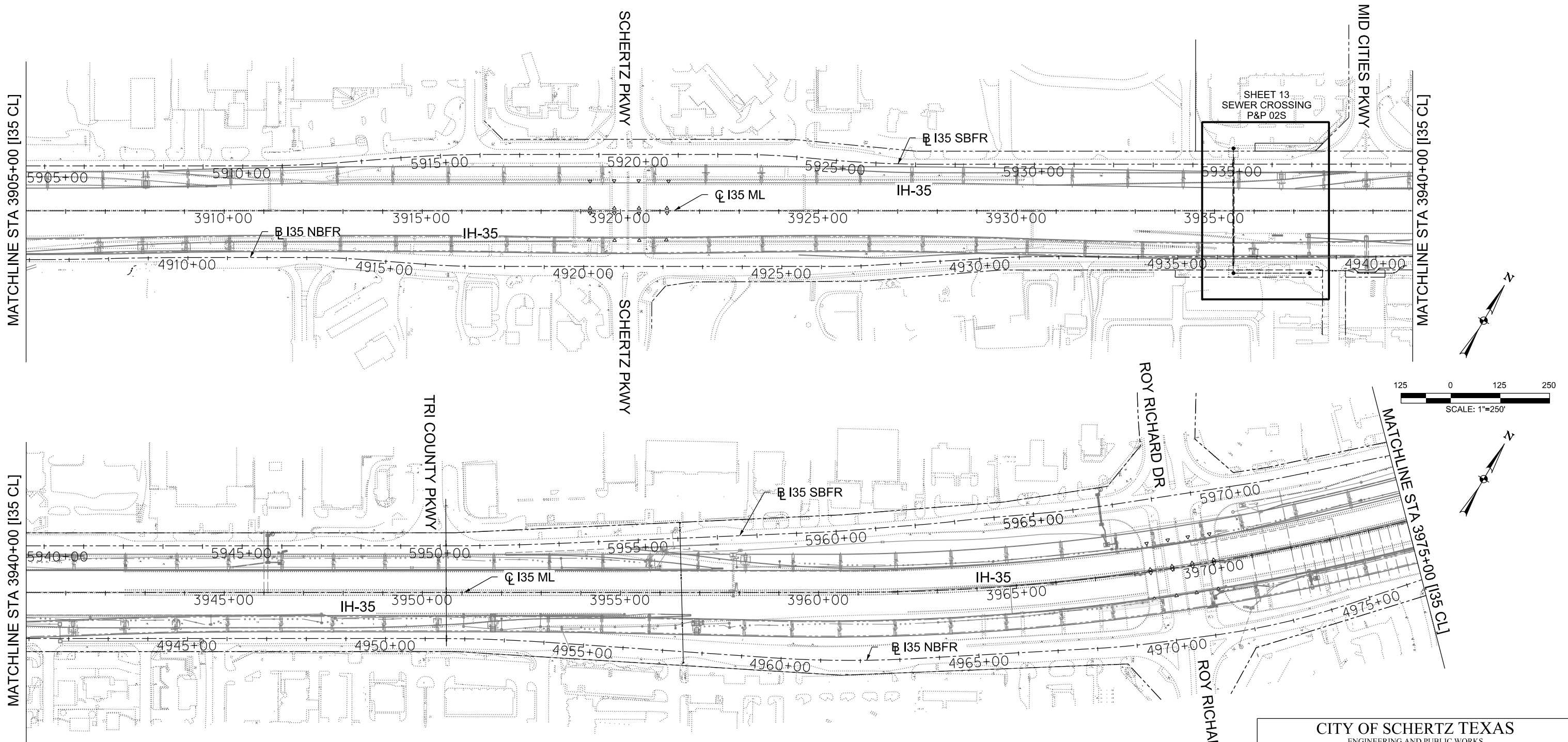
SHEET	LOCATION	02081	02082	02221	02221	02221	02221	02221	02222	02222	02260	02448	02448	02448	02448	02506	02506
		SANITARY SEWER INTERNAL DROP MANHOLE (5' DIA.)	SANITARY SEWER MANHOLE (5' DIA.)	REMOVE SANITARY FORCE MAIN (4")	REMOVE SANITARY FORCE MAIN (14")	REMOVE SANITARY SEWER MAIN (8")	REMOVE SANITARY SEWER MAIN (10")	REMOVE SANITARY SEWER MANHOLE	ABANDON SANITARY SEWER MAIN (8")	ABANDON SANITARY SEWER MAIN (16")	TRENCH EXCAVATION SAFETY PROTECTION	8" CARRIER PIPE (PVC)	24" STEEL CASING (SEWER)	30" STEEL CASING (SEWER)	JACKING, BORING OR TUNNELING PIPE	8" PVC SANITARY SEWER LINE	10" PVC SANITARY SEWER LINE
		EA	EA	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF
SANITARY SEWER PLAN & PROFILE SHEETS																	
12 OF 28	SEWER CROSSING P&P 01S		3					2	375		90	303	303		303	90	
13 OF 28	SEWER CROSSING P&P 01N									378	94		328	328			
14 OF 28	SEWER CROSSING P&P 02S		1					2	370		234	274	274		274	234	
15 OF 28	STA 3978+55 TO STA 3983+55		1			194		1			191	25	25			191	
16 OF 28	STA 4038+37 TO STA 4039+46	1		460							114						99
17 OF 28	STA 4133+83 TO STA 4138+83						31	1			34						34
18 OF 28	STA 4138+83 TO STA 4143+83		1				500	2			500						500
19 OF 28	STA 4143+83 TO STA 4148+83		1				500	1			500						500
20 OF 28	STA 4148+83 TO STA 4153+83		1				19	1			30						30
21 OF 28	STA 4143+83 TO STA 4148+83				262						256						
22 OF 28	STA 4148+83 TO STA 4153+83				338						346		20				
PROJECT TOTALS		1	8	460	600	194	1,050	10	745	378	2,389	602	622	328	905	515	1,163

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
 TBPELS FIRM REGISTRATION #312			IH-35NEX SEWER RELOCATION PROJECT		
			QUANTITY SUMMARY 01		
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		6	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC

SANITARY SEWER SUMMARY

SHEET	LOCATION	02506	02524	02532	02532	02532	02532	02534	02534	03300	03315	SP 7299	SP XXXX
		12" PVC SANITARY SEWER LINE	1" AIR RELEASE AND VACUUM RELIEF VALVE	16" CARRIER PIPE (HDPE) FORCE MAIN	14" CARRIER PIPE (HDPE) FORCE MAIN	14" HDPE SANITARY SEWER FORCE MAIN	16" HDPE SANITARY SEWER FORCE MAIN	SANITARY SEWER SERVICE STUB	SANITARY SEWER RECONNECTI ONS	CAST-IN-PLACE SANITARY SEWER MANHOLE (5' DIA.)	EXTRA DEPTH MANHOLES (> 6') (5' DIA.) (VERTICAL FEET)	24" SEWER LINE SPLIT STEEL CASING	LIFT STATION ABANDONMEN T
		LF	EA	LF	LF	LF	LF	EA	EA	EA	VF	LF	EA
SANITARY SEWER PLAN & PROFILE SHEETS													
12 OF 28	SEWER CROSSING P&P 01S										11	47	
13 OF 28	SEWER CROSSING P&P 01N			328			94		2				
14 OF 28	SEWER CROSSING P&P 02S									2	11		
15 OF 28	STA 3978+55 TO STA 3983+55									1	4		
16 OF 28	STA 4038+37 TO STA 4039+46	15						1	1				1
17 OF 28	STA 4133+83 TO STA 4138+83									1			
18 OF 28	STA 4138+83 TO STA 4143+83												
19 OF 28	STA 4143+83 TO STA 4148+83										1		
20 OF 28	STA 4148+83 TO STA 4153+83									1			
21 OF 28	STA 4143+83 TO STA 4148+83		1			256			1				
22 OF 28	STA 4148+83 TO STA 4153+83		1		20	346			1				
PROJECT TOTALS		15	2	328	20	602	94	1	5	5	27	47	1

CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
 <small>TBPELS FIRM REGISTRATION #312</small>			IH-35NEX SEWER RELOCATION PROJECT		
			QUANTITY SUMMARY 02		
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			7
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

IH-35NEX
SEWER
RELOCATION
PROJECT

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TBPELS FIRM REGISTRATION #312

SEWER PROJECT LAYOUT

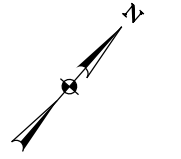
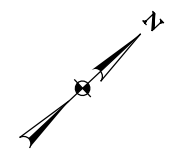
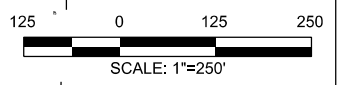
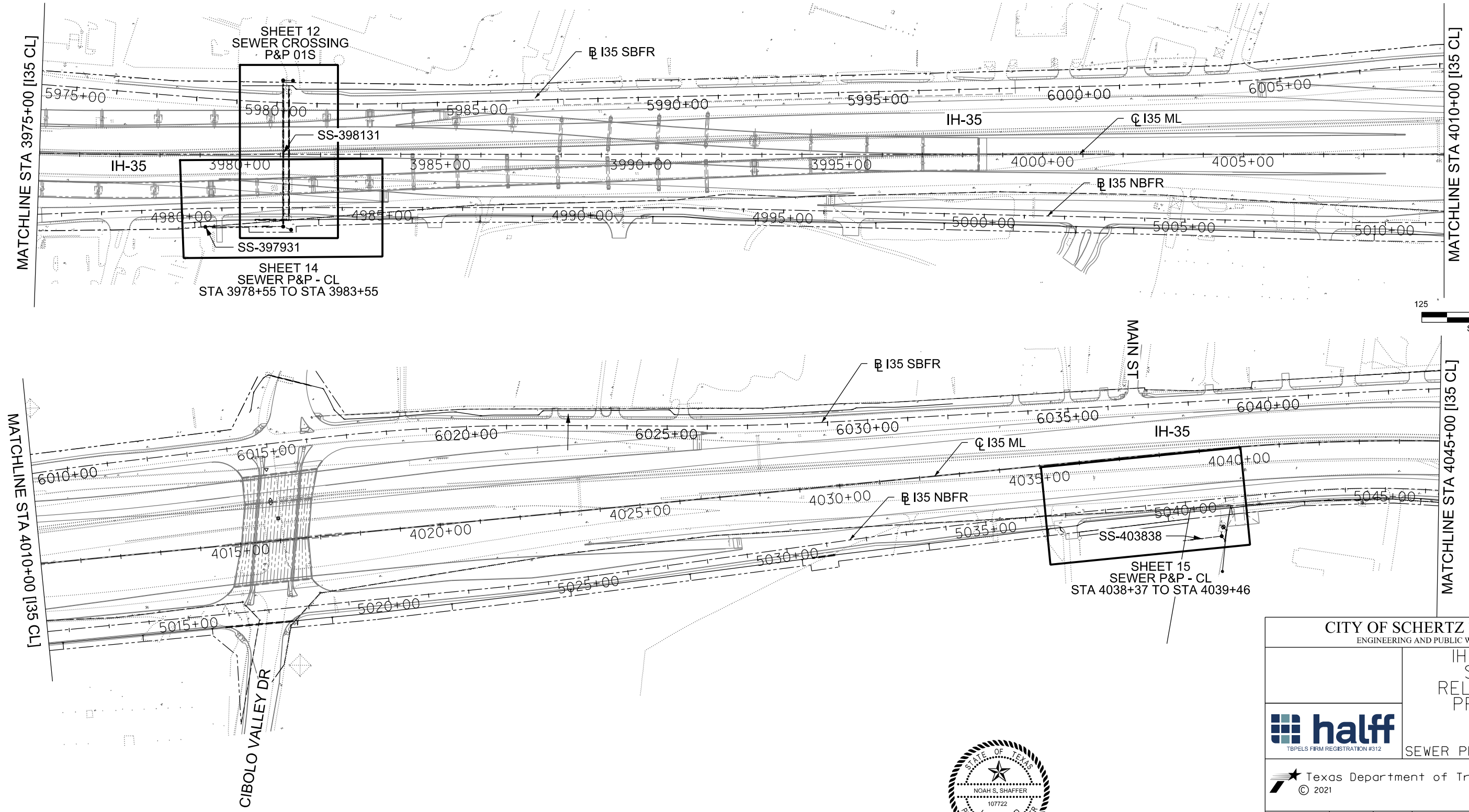
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Noah S. Shaffer
11/18/24

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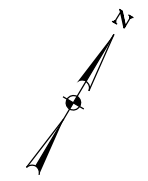
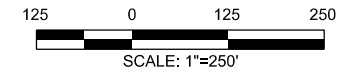
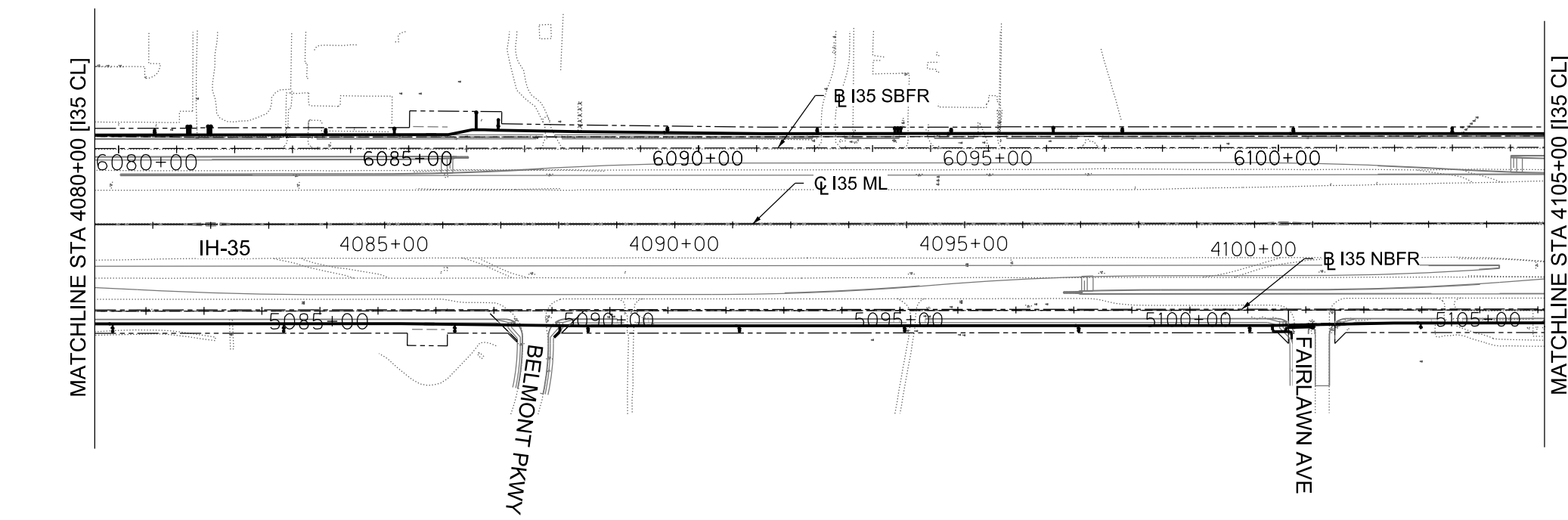
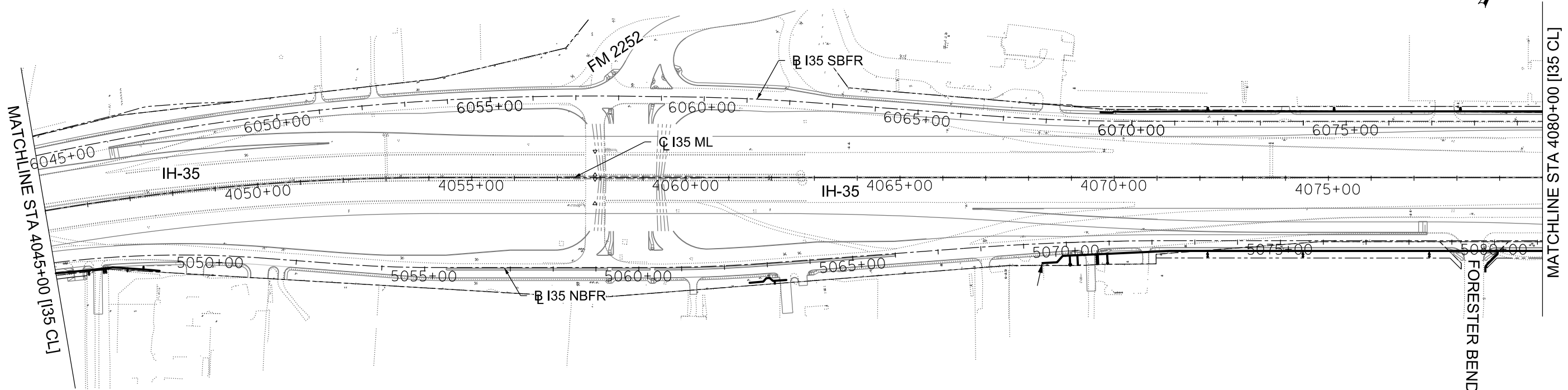
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CHECKED: PD, KA	NO.	TEXAS		8
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CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC





CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
IH-35NEX SEWER RELOCATION PROJECT					
 TBPELS FIRM REGISTRATION #312			SEWER PROJECT LAYOUT		
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
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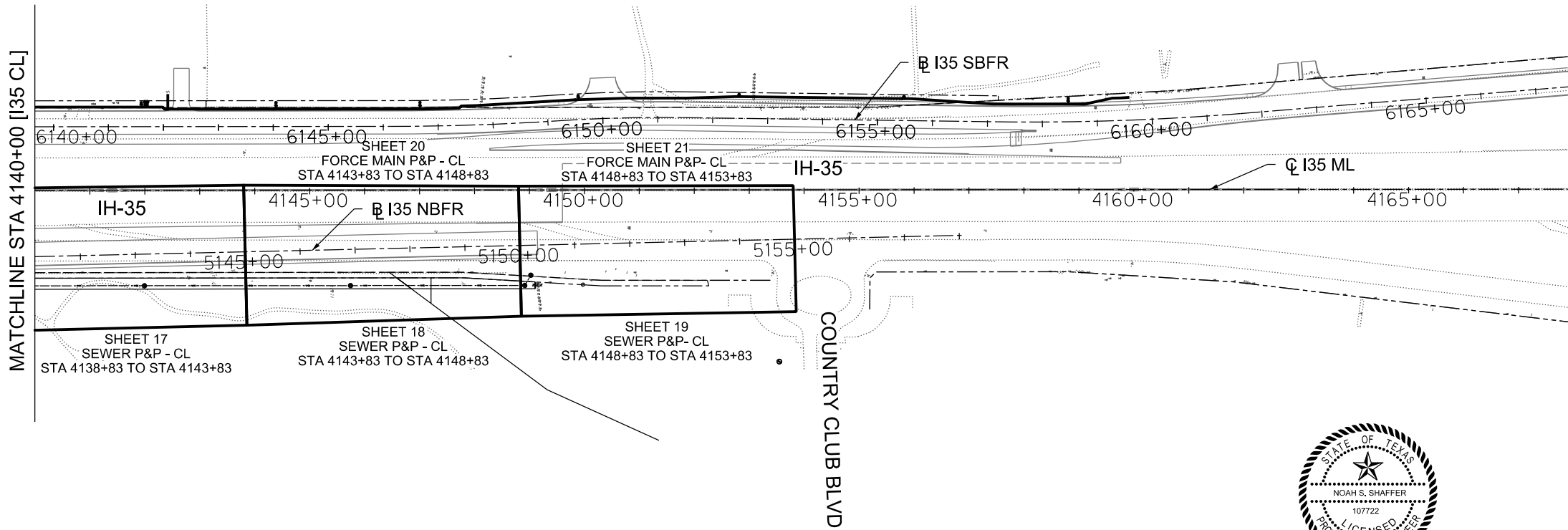
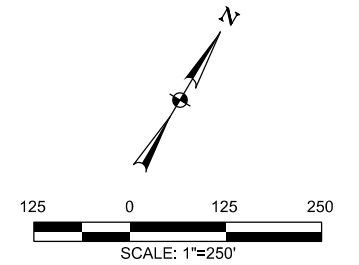
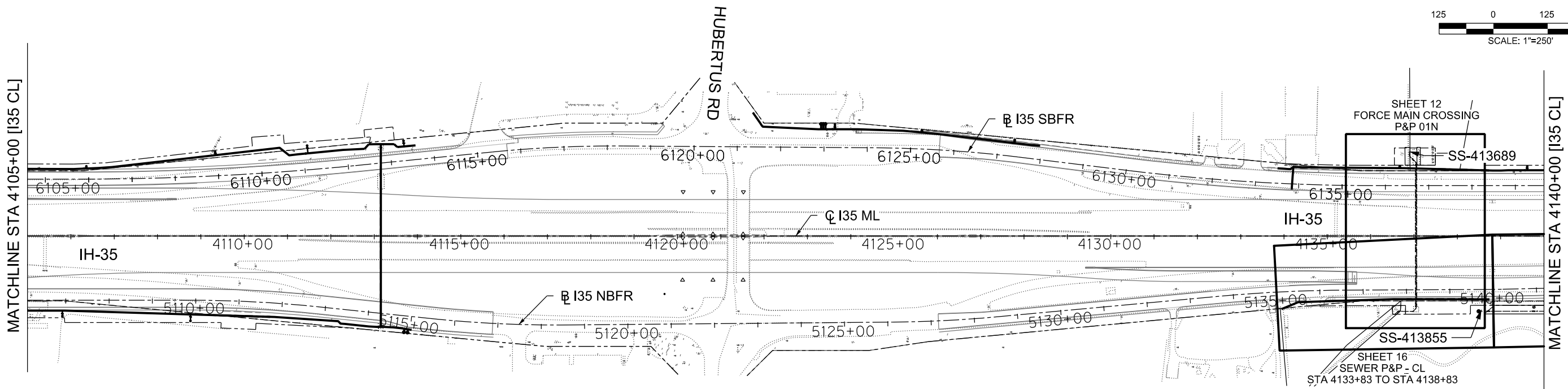
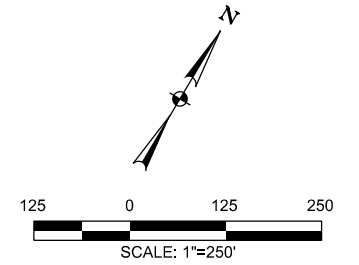


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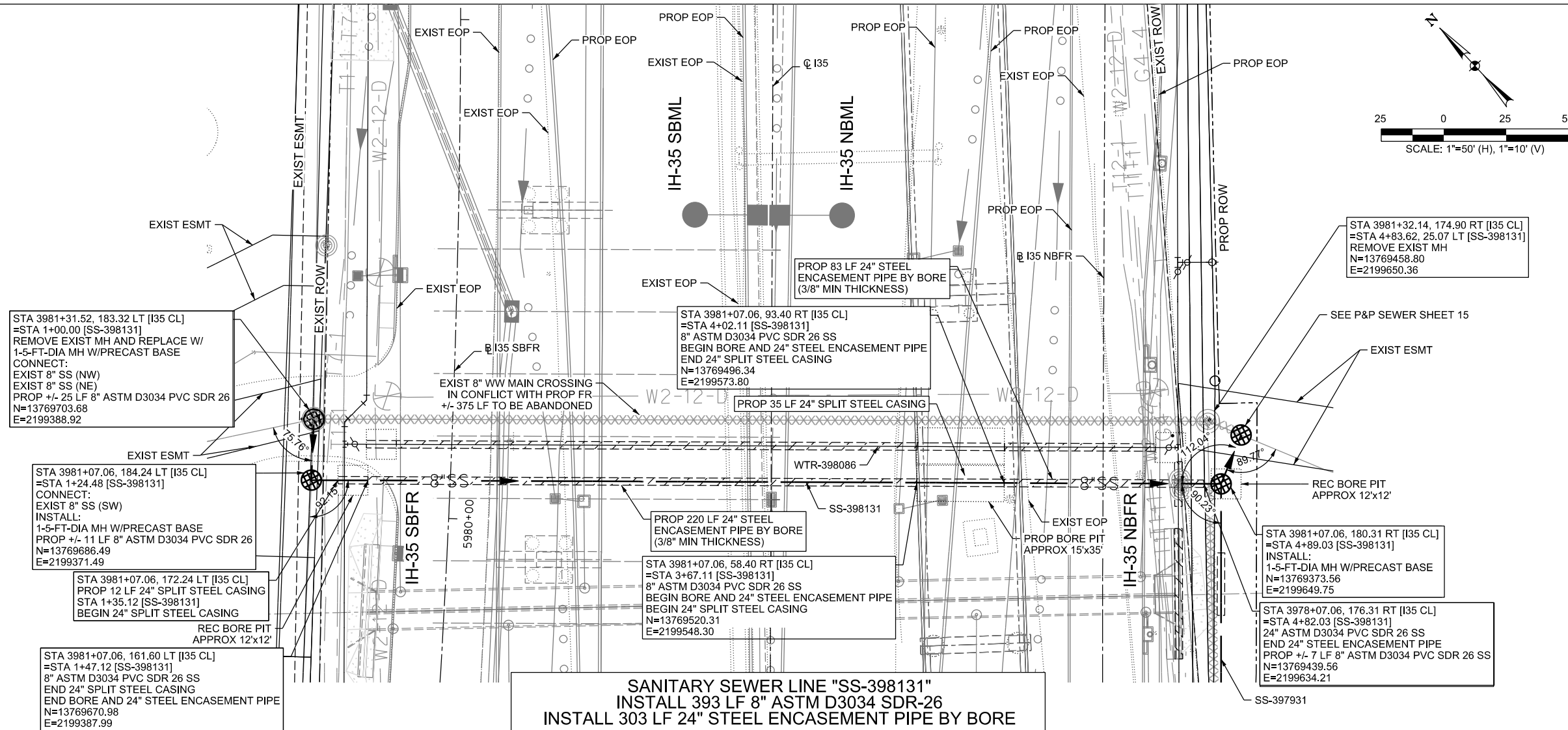
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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
 TBPELS FIRM REGISTRATION #312			IH-35NEX SEWER RELOCATION PROJECT		
			SEWER PROJECT LAYOUT		
 Texas Department of Transportation © 2021					
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		10	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
IH-35NEX SEWER RELOCATION PROJECT			SEWER PROJECT LAYOUT		
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		11	
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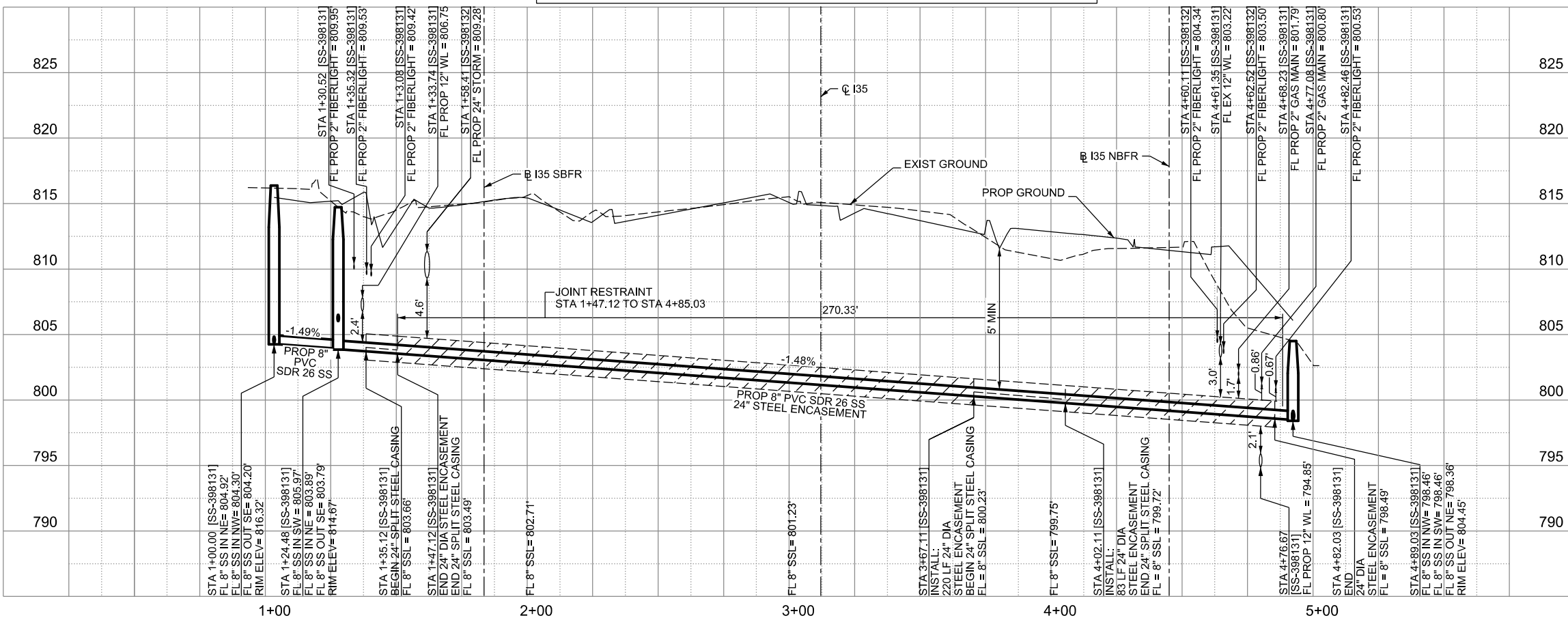
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE PRIOR TO CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER OF ANY DIFFERENCES THAT WILL CAUSE CHANGES TO THE INSTALLATION OF THE PROPOSED UTILITIES WITHIN THE PLANS.

- ### NOTES:
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SANITARY SEWER LINE "SS-398131"
 INSTALL 393 LF 8" ASTM D3034 SDR-26
 INSTALL 303 LF 24" STEEL ENCASEMENT PIPE BY BORE



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CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

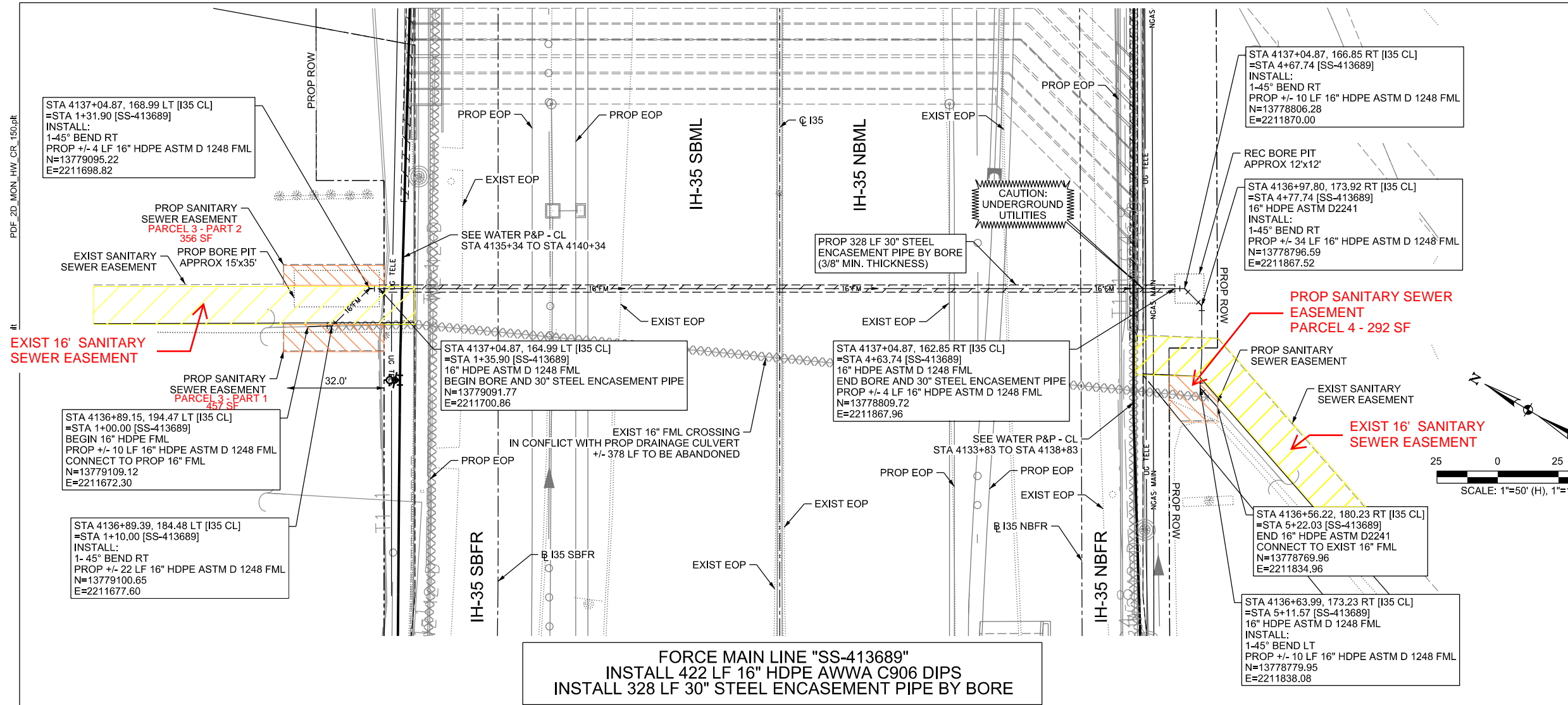
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 TBPELS FIRM REGISTRATION #312

SEWER CROSSING P&P 01S

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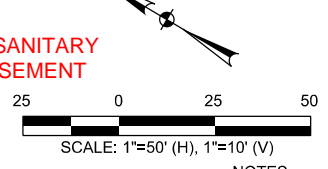
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CHECKED: PD, KA	NO.	TEXAS		12
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05

JOB NO. 111, ETC



LEGEND

	EXISTING	PROPOSED
GAS LINE	CA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-0	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-0	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASEMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



NOTES:

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- CONTRACTOR TO EXPOSE EXISTING FORCE MAIN TO LIMITS OF JOINT RESTRAINT AND INSTALL RESTRAINT ACCORDINGLY



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

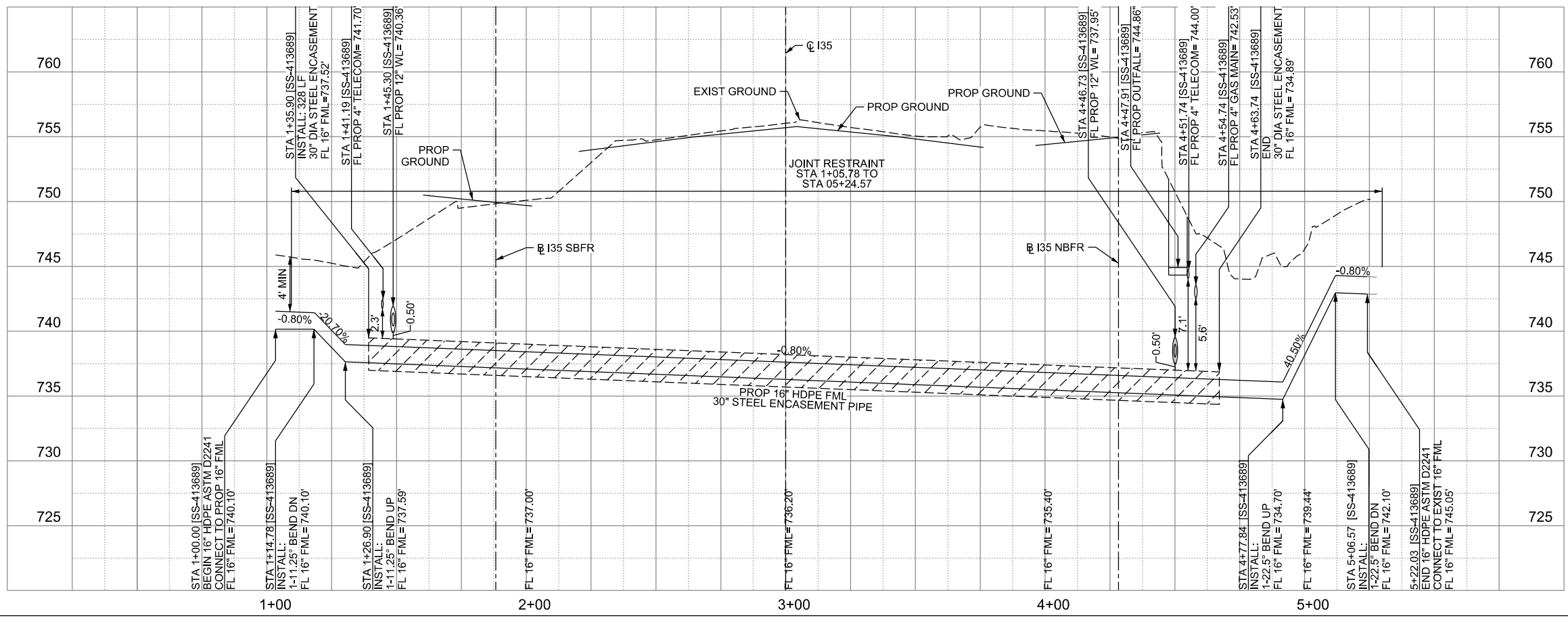
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TBPELS FIRM REGISTRATION #312

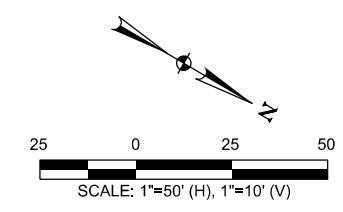
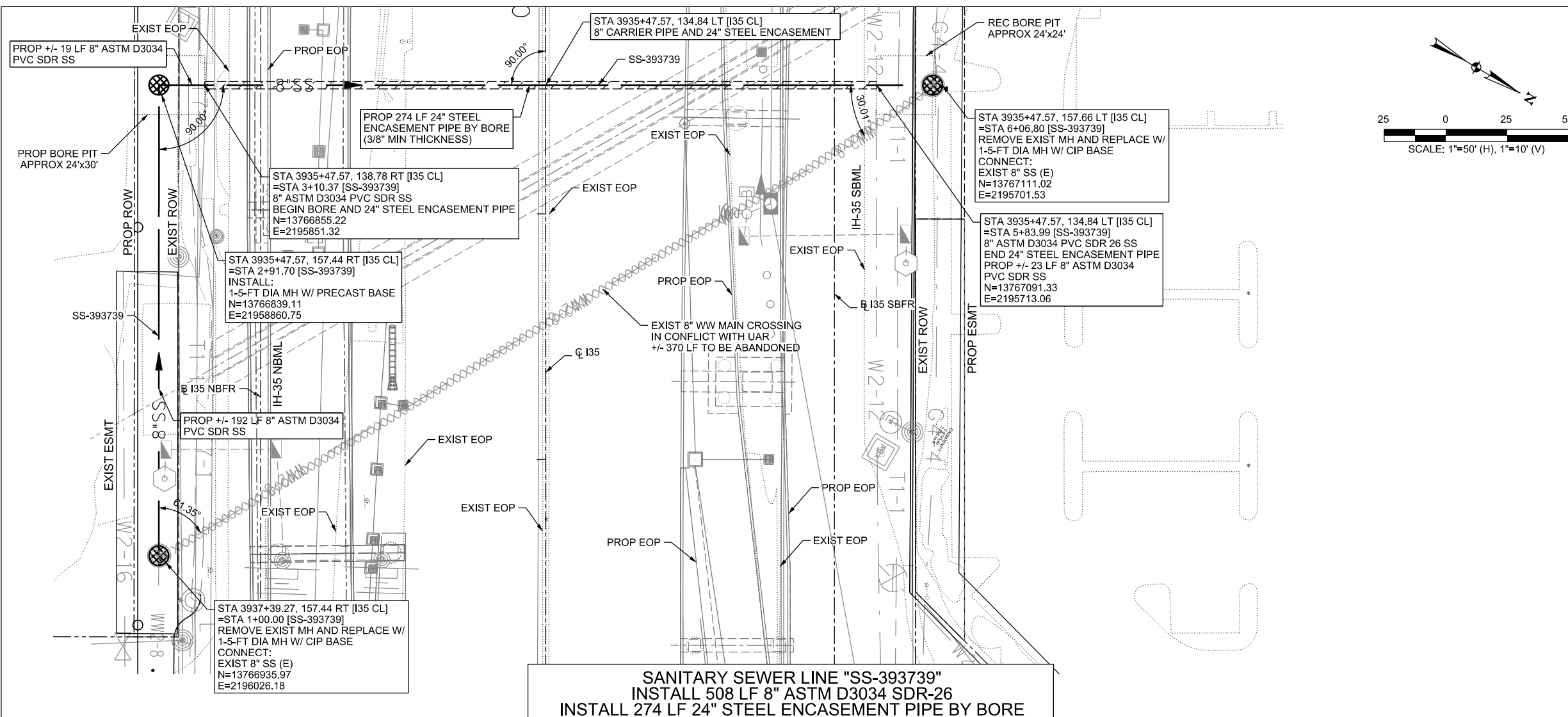
IH-35NEX SEWER RELOCATION PROJECT

FORCE MAIN CROSSING P&P 01N

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		13
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



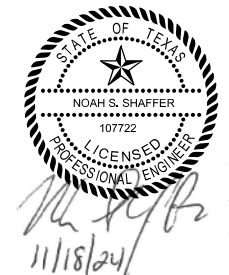
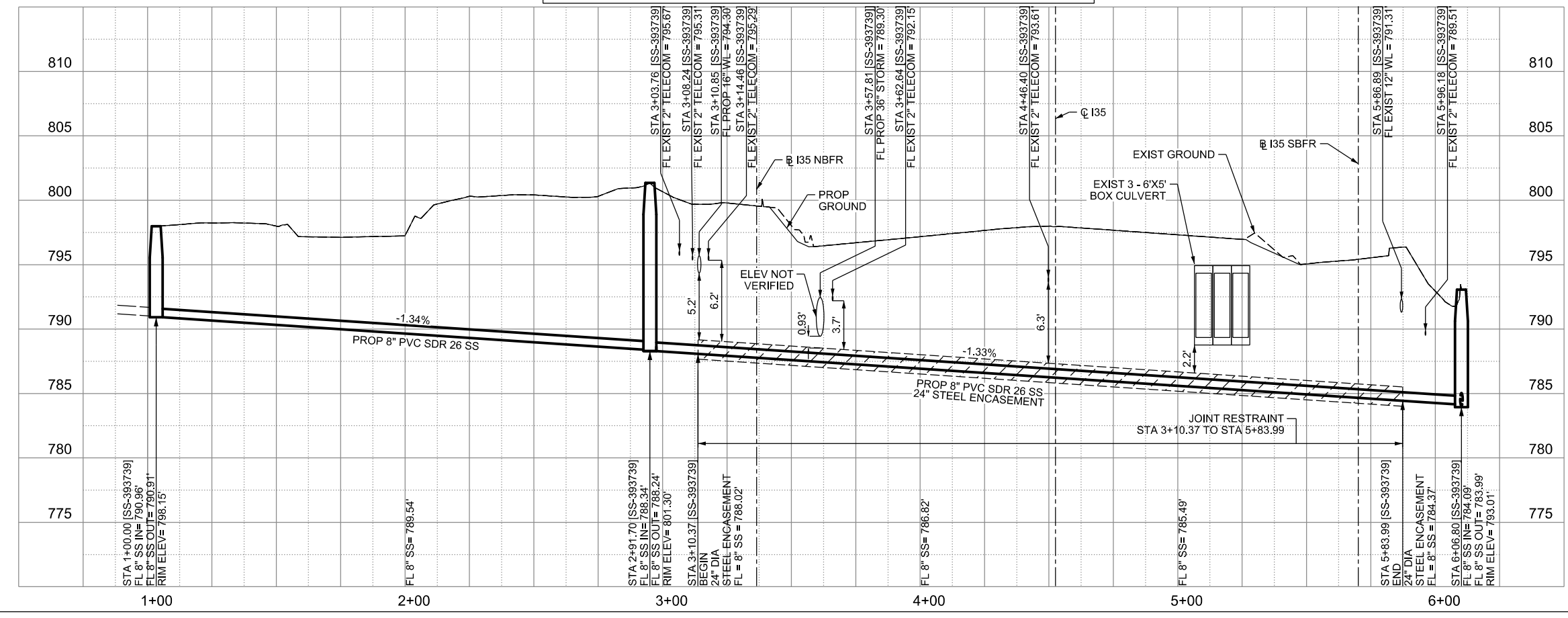


LEGEND		
	EXISTING	PROPOSED
GAS LINE		NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM		UG TELE
WATER LINE		
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE		8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

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SANITARY SEWER LINE "SS-393739"
 INSTALL 508 LF 8" ASTM D3034 SDR-26
 INSTALL 274 LF 24" STEEL ENCASEMENT PIPE BY BORE



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CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

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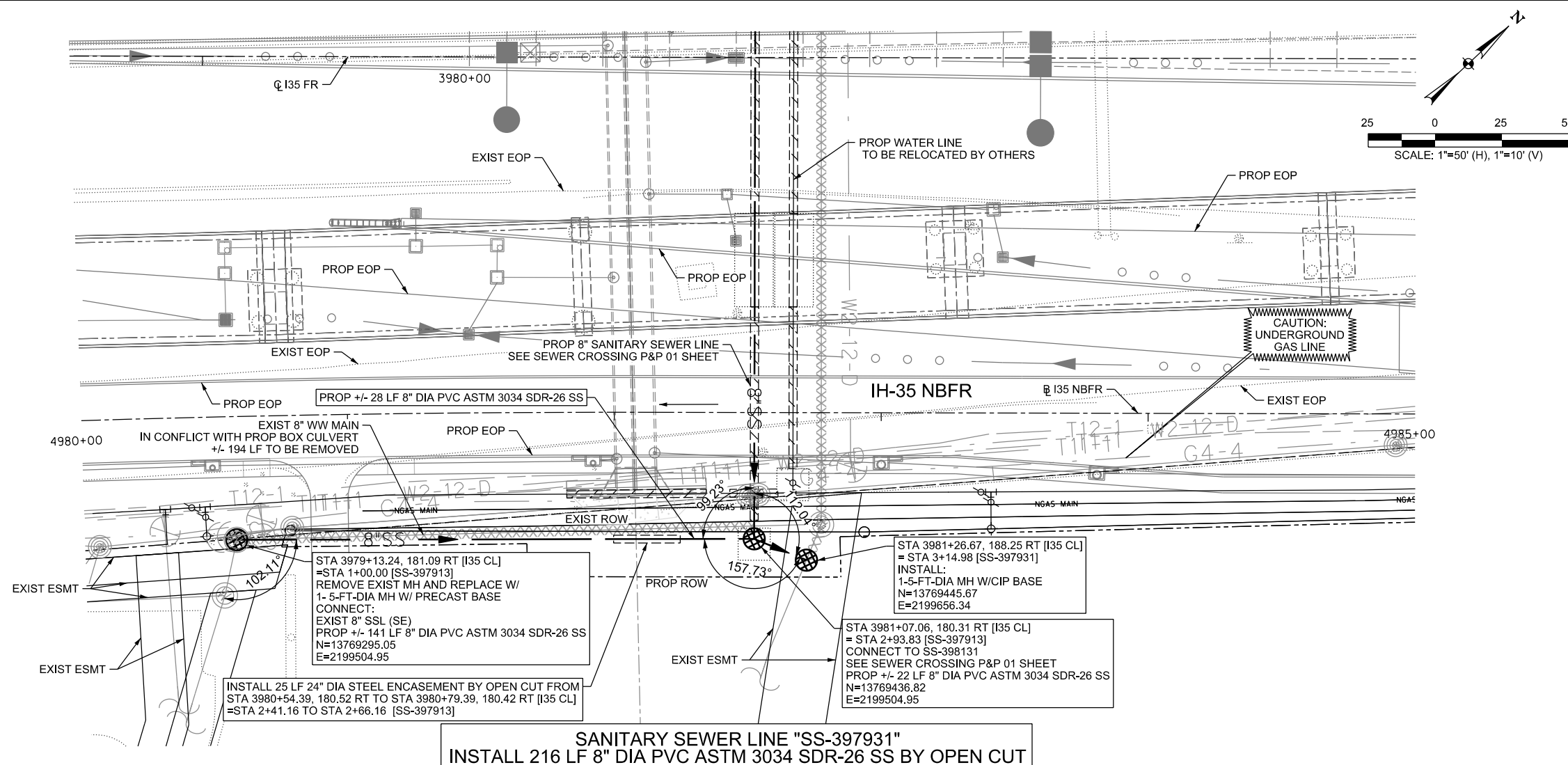
IH-35NEX SEWER RELOCATION PROJECT

SEWER CROSSING P&P 025

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		14
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05

JOB NO. 111, ETC



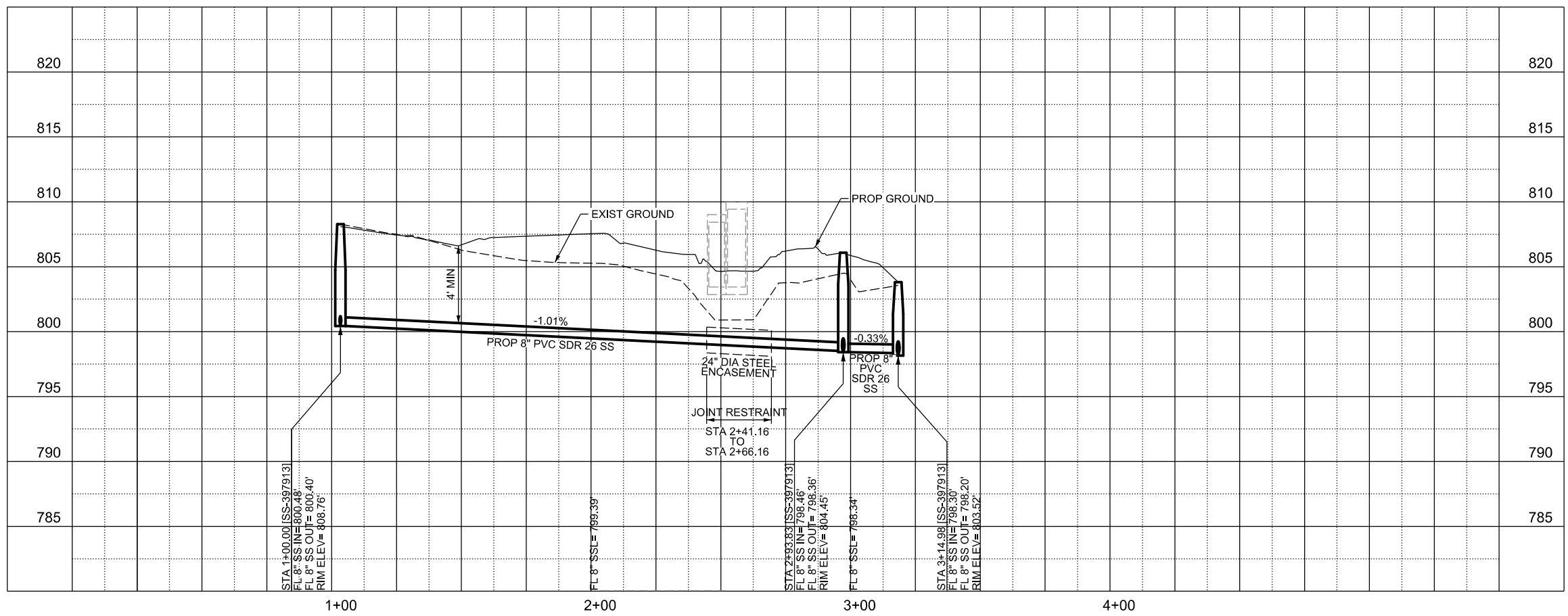
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

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**SANITARY SEWER LINE "SS-397931"
INSTALL 216 LF 8" DIA PVC ASTM 3034 SDR-26 SS BY OPEN CUT**



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

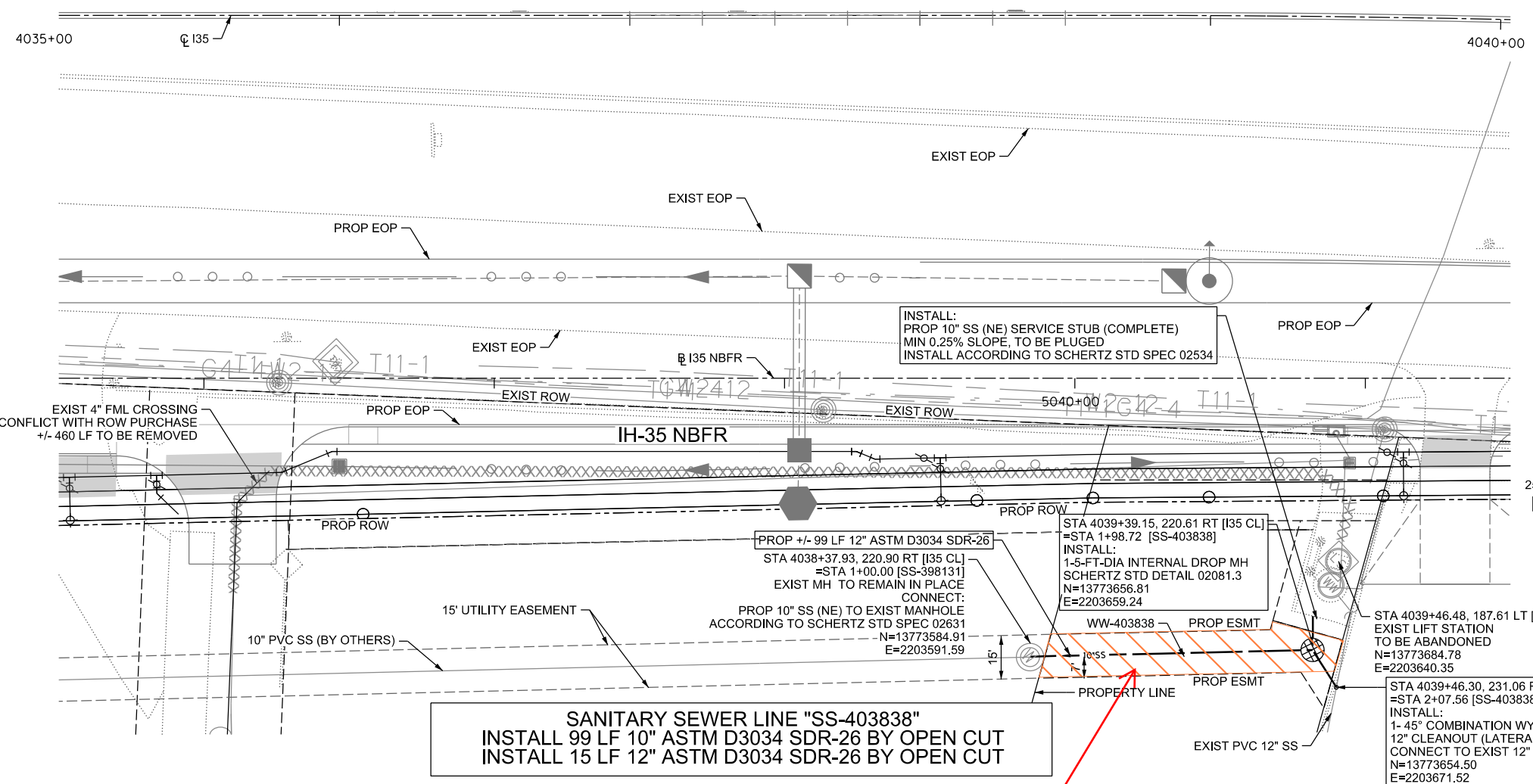
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TBPELS FIRM REGISTRATION #312

IH-35NEX SEWER RELOCATION PROJECT
SEWER P&P - CL
STA 3978+55 TO STA 3983+55

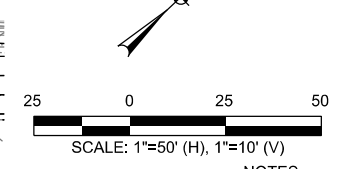
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		15
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC

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	EXISTING	PROPOSED
GAS LINE	GA-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	TB-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WWS-12-D	8"SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASEMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

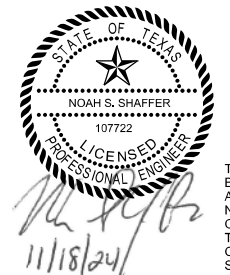
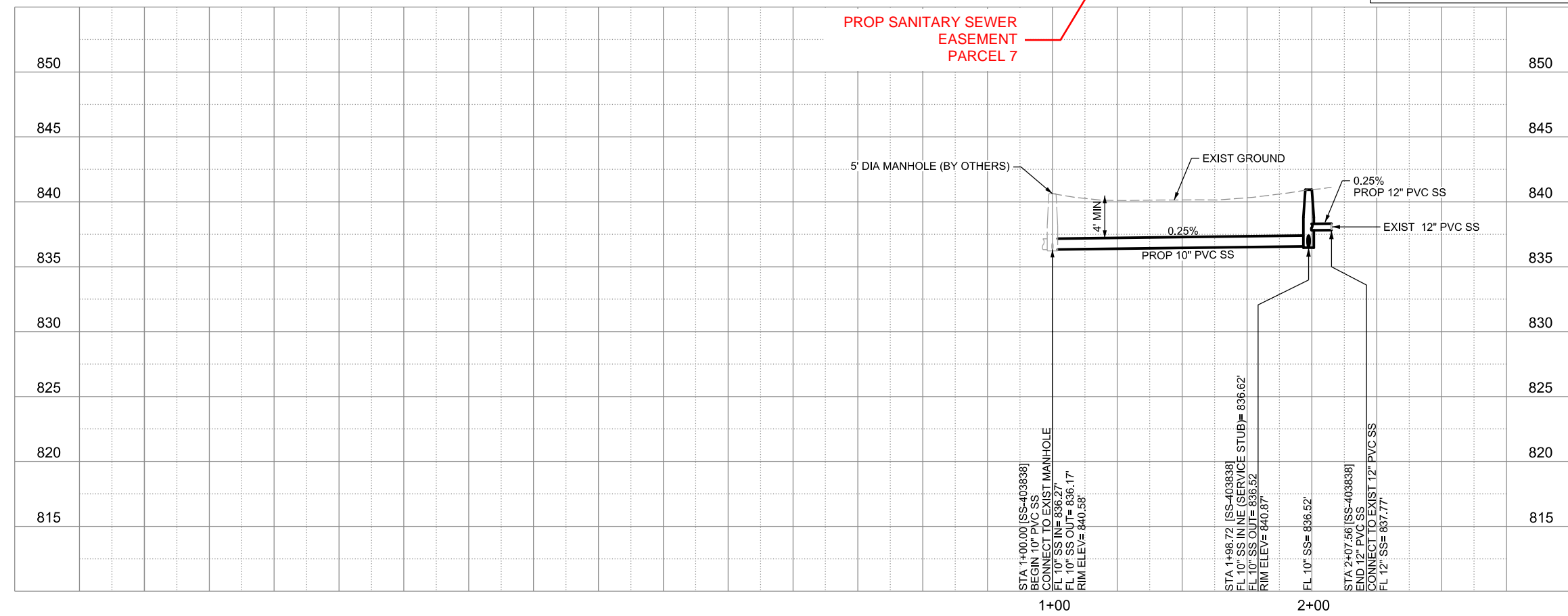


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SANITARY SEWER LINE "SS-403838"
 INSTALL 99 LF 10" ASTM D3034 SDR-26 BY OPEN CUT
 INSTALL 15 LF 12" ASTM D3034 SDR-26 BY OPEN CUT

PROP SANITARY SEWER EASEMENT PARCEL 7



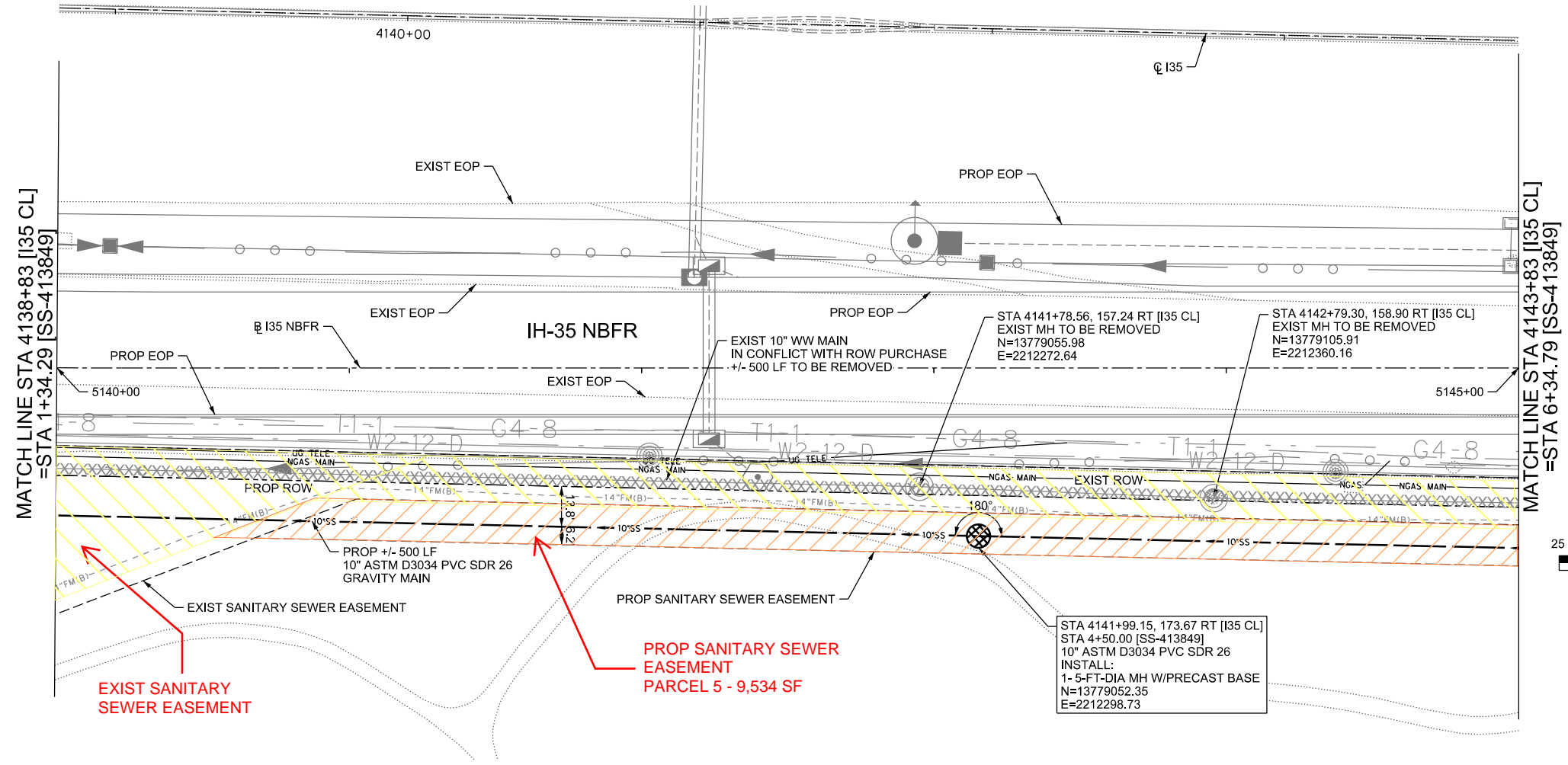
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 11-18-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE, 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

halff
 TBPELS FIRM REGISTRATION #312

IH-35NEX SEWER RELOCATION PROJECT
 SEWER P&P - CL
 STA 4038+37 TO STA 4039+46

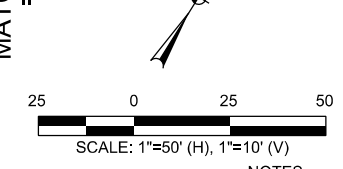
Texas Department of Transportation		© 2021	
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.
CHECKED: PD, KA	NO.	TEXAS	16
DRWN: AT, JG, AL, JB	STATE DIST.	COUNTY	CONTROL NO. SECTION NO. JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016 05 111, ETC



SANITARY SEWER LINE "SS-413849"
INSTALL 500 LF 10" DIA PVC ASTM 3034 SDR-26 BY OPEN CUT

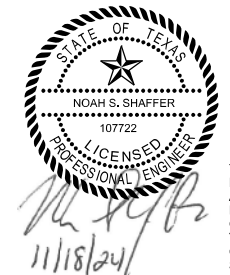
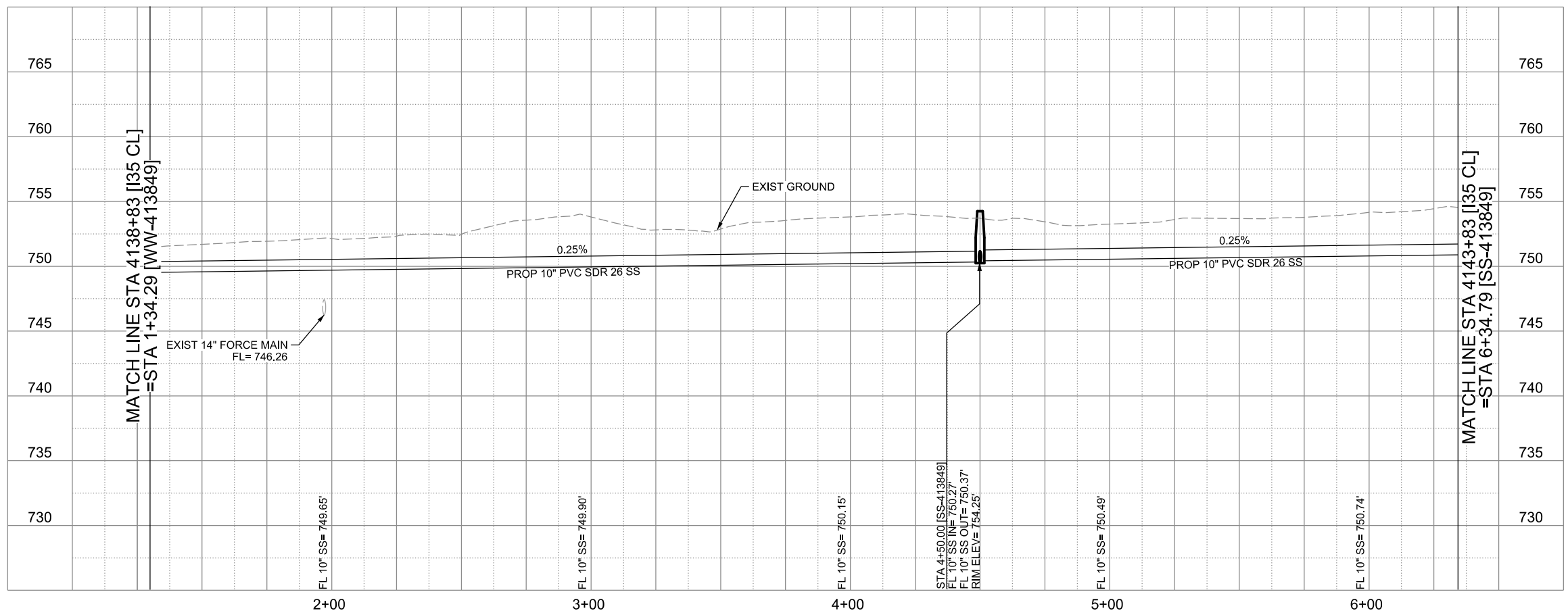
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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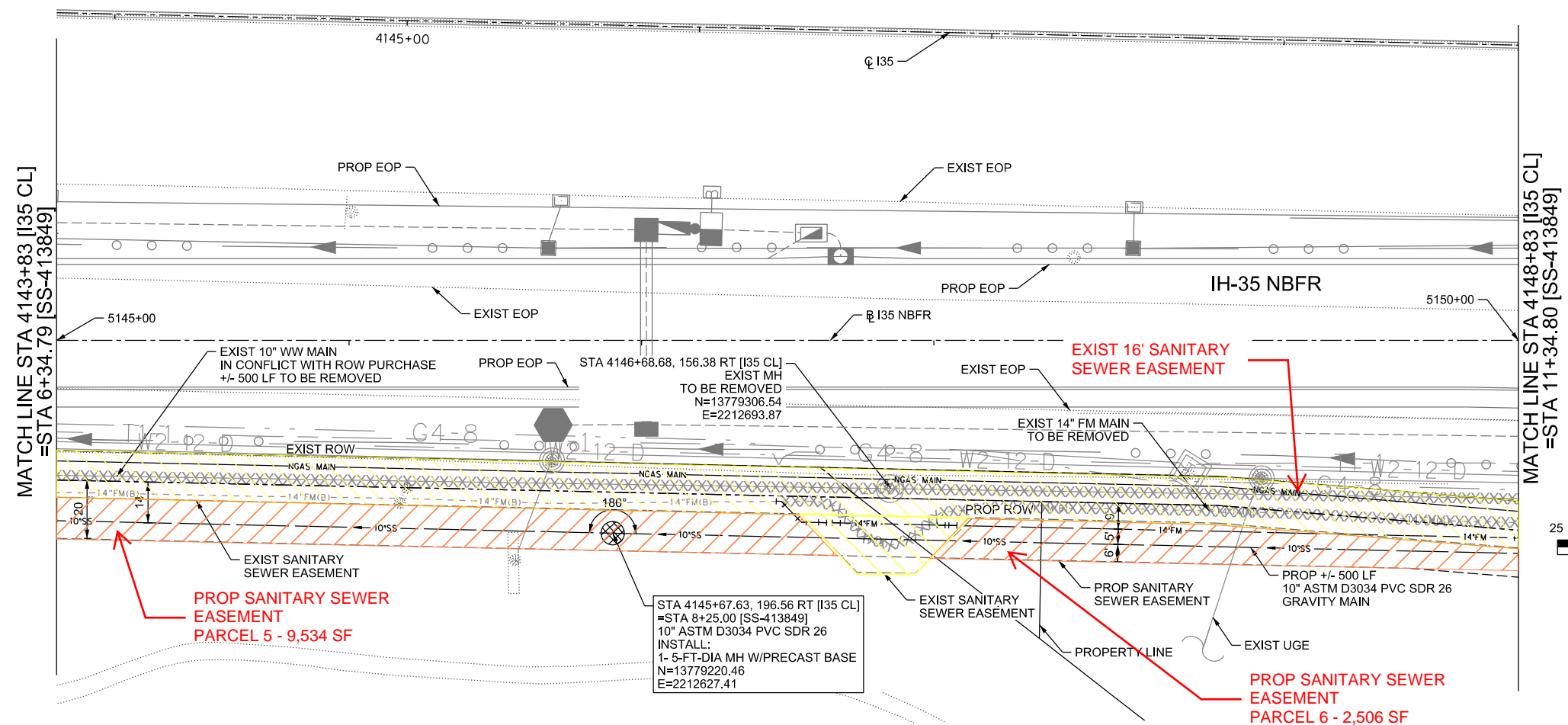
CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

halff
 TBPELS FIRM REGISTRATION #312

IH-35NEX SEWER RELOCATION PROJECT
 SEWER P&P - CL
 STA 4138+83 TO STA 4143+83

Texas Department of Transportation
 © 2021

DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		18
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



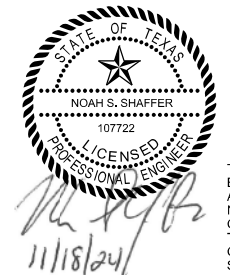
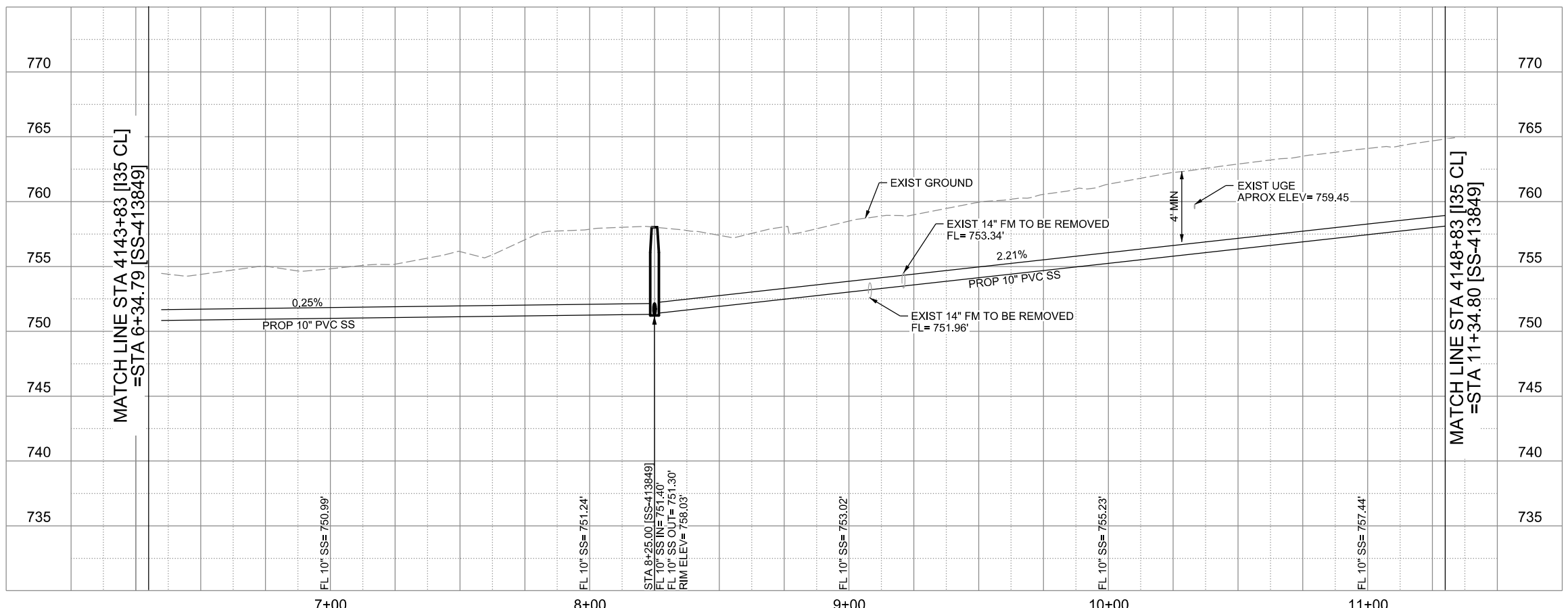
LEGEND

	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		

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**SANITARY SEWER LINE "SS-413849"
INSTALL 500 LF 10" DIA PVC ASTM 3034 SDR-26 BY OPEN CUT**



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

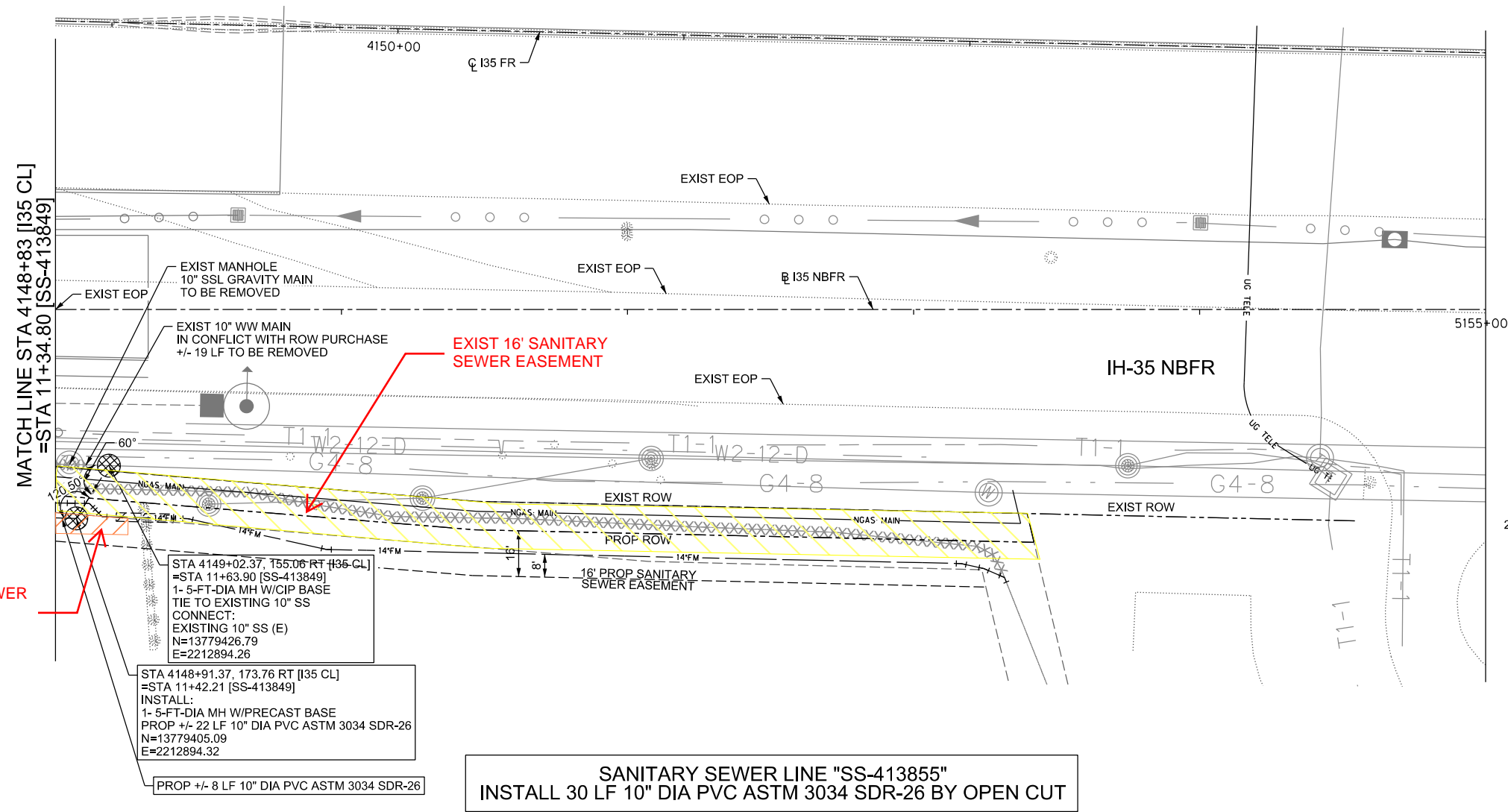
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TBPELS FIRM REGISTRATION #312

**IH-35NEX
SEWER
RELOCATION
PROJECT**

SEWER P&P - CL
STA 4143+83 TO
STA 4148+83

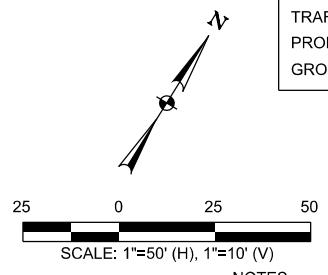
Texas Department of Transportation
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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		19
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO.
				111, ETC



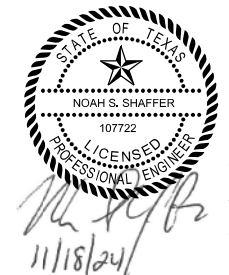
**SANITARY SEWER LINE "SS-413855"
INSTALL 30 LF 10" DIA PVC ASTM 3034 SDR-26 BY OPEN CUT**

LEGEND		
	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

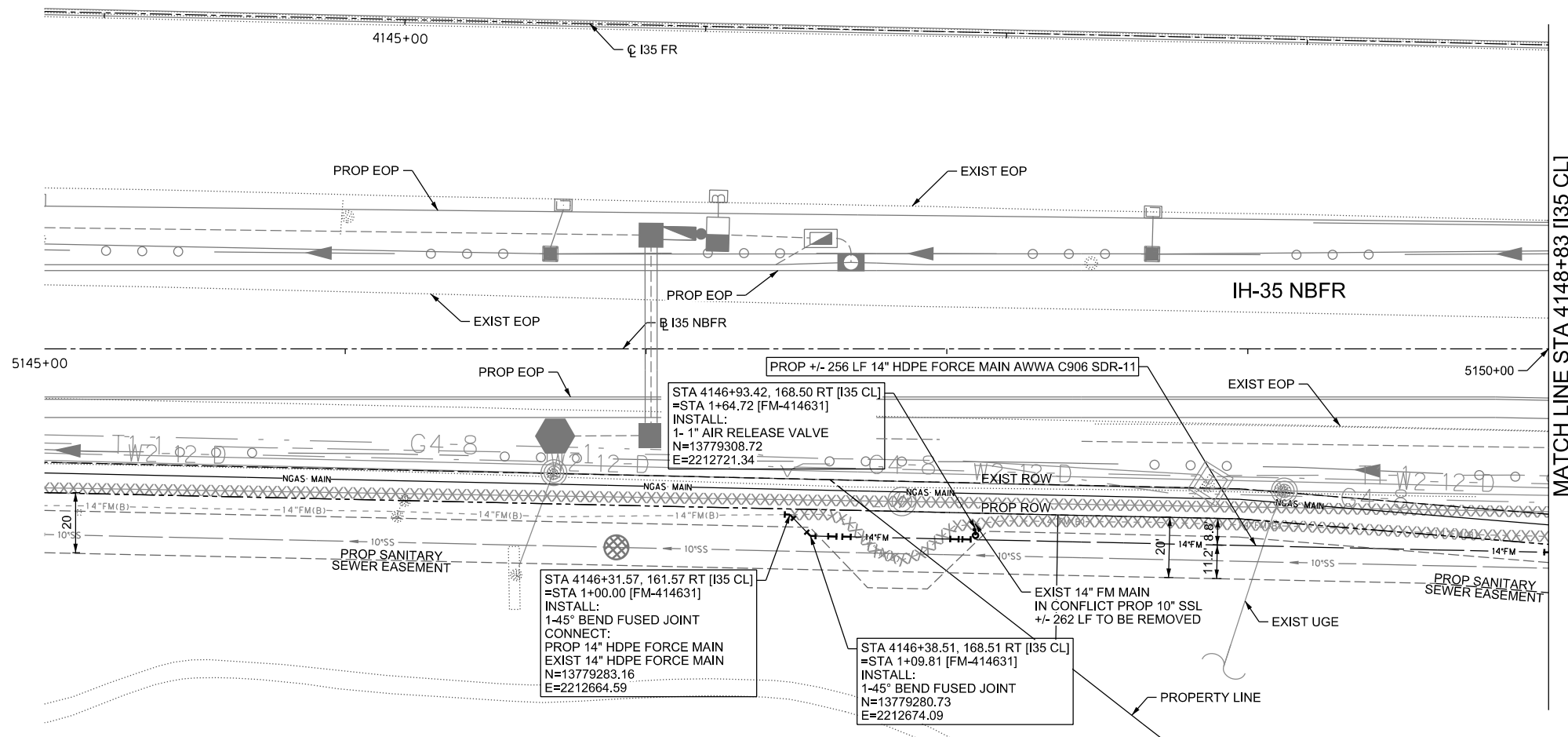
halff
TBPELS FIRM REGISTRATION #312

**IH-35NEX
SEWER
RELOCATION
PROJECT**

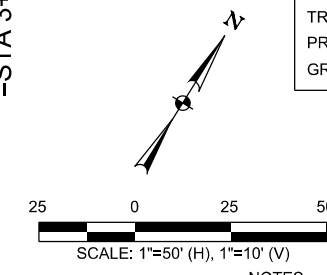
SEWER P&P - CL
STA 4148+83 TO
STA 4153+83

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DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		20
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



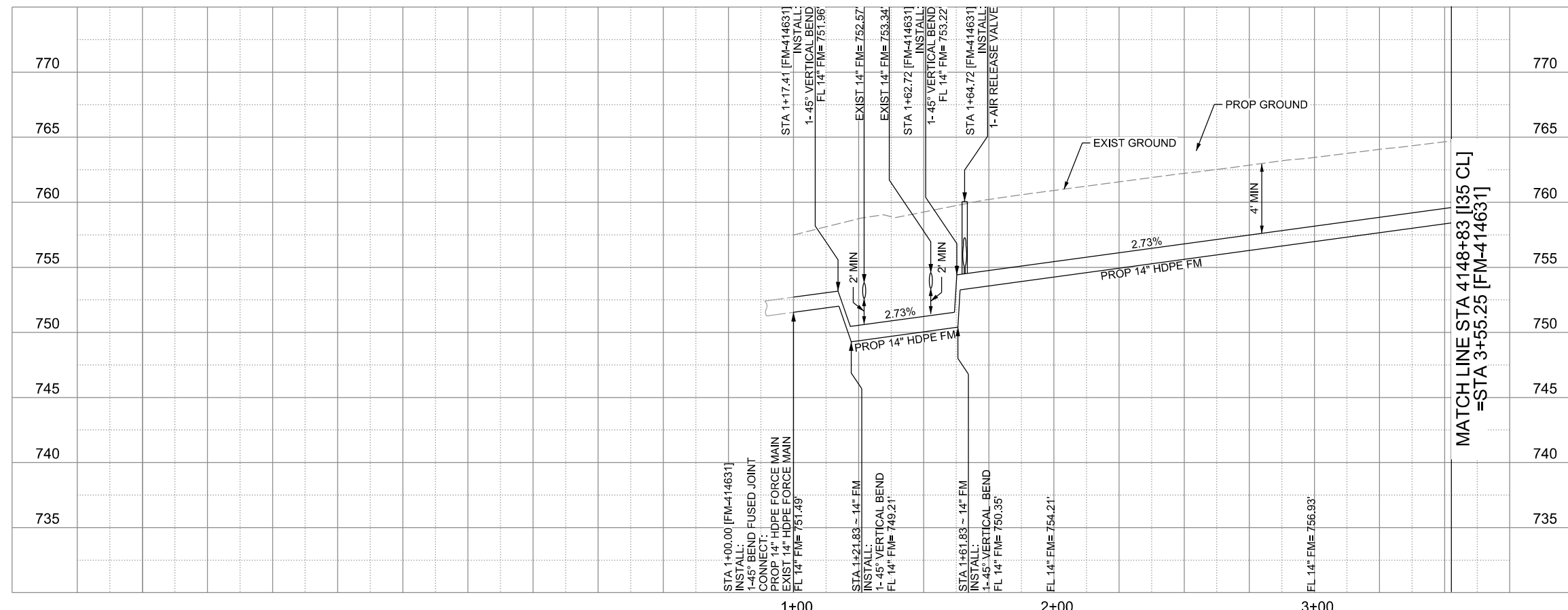
LEGEND		
	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASUREMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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**FORCE MAIN LINE "FM-414631"
INSTALL 256 LF 14" HDPE AWWA C906 SDR-11 BY OPEN CUT**



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CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS				
IH-35NEX SEWER RELOCATION PROJECT				
FORCE MAIN P&P - CL STA 4143+83 TO STA 4148+83				
halff TBPELS FIRM REGISTRATION #312				
Texas Department of Transportation © 2021				
DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CHECKED: PD, KA	NO.	TEXAS		21
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

MATCH LINE STA 4148+83 [I35 CL]
=STA 3+55.25 [FM-414631]

STA 4148+95.84, 168.50 RT [I35 CL]
=STA 3+67.14 [FM-414631]
INSTALL:
1-45° BEND FUSED JOINT
N=13779411.90
E=2212895.48

STA 4149+00.32, 172.99 RT [I35 CL]
=STA 3+73.48 [FM-414631]
INSTALL:
1-45° BEND FUSED JOINT
N=13779410.33
E=2212901.63

STA 4149+30.32, 172.98 RT [I35 CL]
=STA 4+03.48 [FM-414631]
INSTALL:
1-11.25° BEND FUSED JOINT
N=13779425.62
E=2212927.44

WARNING!!! EX UGE
INSTALL 20 LF 24" STEEL
ENCASEMENT (MIN 3/8" THICK) BY OPEN CUT
FROM STA 4149+05.32 TO 4149+25.32 [I35 CL]
=STA 3+78.48 TO 3+98.48 [FM-414631]

STA 4149+02.33, 172.99 RT [I35 CL]
=STA 3+75.76 [FM-414631]
INSTALL:
1- 1" AIR RELEASE VALVE
N=13779411.35
E=2212903.35

EXIST SIGN TO REMAIN IN PLACE
EXIST 14" FM MAIN
IN CONFLICT WITH PROP 10" SSL
+/- 338 LF TO BE REMOVED

STA 4149+79.03, 182.67 RT [I35 CL]
=STA 4+53.14 [FM-414631]
INSTALL:
1-11.25° BEND FUSED JOINT
N=13779442.11
E=2212974.28

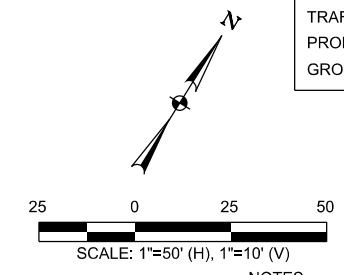
STA 4152+01.02, 182.66 RT [I35 CL]
=STA 6+75.14 [FM-414631]
INSTALL:
1-11.25° BEND FUSED JOINT
N=13779555.27
E=2213165.27

STA 4152+08.98, 184.25 [I414631]
INSTALL:
1-11.25° BEND FUSED JOINT
N=13779557.96
E=2213172.93

STA 4152+16.24, 187.20 RT [I35 CL]
=STA 6+91.09 [FM-414631]
INSTALL:
1-45° BEND FUSED JOINT
CONNECT:
PROP 14" HDPE FORCE MAIN
EXIST 14" HDPE FORCE MAIN
N=13779559.12
E=2213180.68

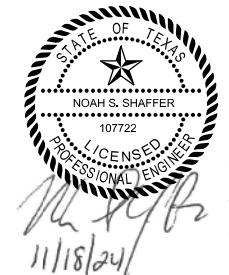
FORCE MAIN LINE "FM-414631"
INSTALL 346 LF 14" HDPE AWWA C906 SDR-11 BY OPEN CUT

LEGEND		
	EXISTING	PROPOSED
GAS LINE	G4-4	NGAS MAIN
OVERHEAD ELECTRIC		OH ELEC
UNDERGROUND TELECOM	T8-01	UG TELE
WATER LINE	W2-12-D	
FORCE MAIN LINE		16" FM
SANITARY SEWER LINE	WW5-12-D	8" SS
SANITARY SEWER MH		
STORM SEWER		
FIRE HYDRANT ASSEMBLY		
WATER VALVE		
SERVICE RELAY		
RELOCATE METER		
PRESSURE REDUCING VALVE		
BLOW OFF VALVE		
STEEL ENCASEMENT		
LUMINAIRES		
TRAFFIC CONDUIT		
TRAFFIC LIGHT		
PROPOSED ELECTRICAL SERVICE		
GROUND BOX		



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 - CONTRACTOR TO INSTALL WATER LINES AT MINIMUM DEPTH OF 60" BELOW PROPOSED/NATURAL.
 - PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST DIVISION AT (210) 619-1750 AND PUBLIC WORKS AT (210) 619-1800 AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS AND BE COORDINATED WITH CITY OF SCHERTZ CONSTRUCTION INSPECTION ANY TEMPORARY SERVICES; THIS IS AT NO ADDITIONAL COST TO THE CITY OF SCHERTZ OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SERVICES DURING CONSTRUCTION AND PROTECT ANY TEMP SERVICES (NO SEPARATE PAY ITEM).
 - PRIOR TO PLACING NEW MAINS IN SERVICE, CONTRACTOR SHALL CONFIRM ALL EXISTING WATER AND WASTEWATER SERVICES. ANY EXISTING SERVICES THAT REQUIRE RECONNECTION, BUT ARE NOT IDENTIFIED ON PLANS, SHALL BE RECONNECTED AND PAID FOR AT THE LINE ITEM BID PRICE FOR THE ASSOCIATED WORK.



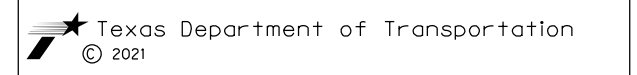
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY NOAH S. SHAFFER, PE No. 107722, ON 11-18-2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 100 N.E. LOOP 410 SUITE, 701 SAN ANTONIO, TEXAS 78216. TBPELS FIRM #F-312.

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

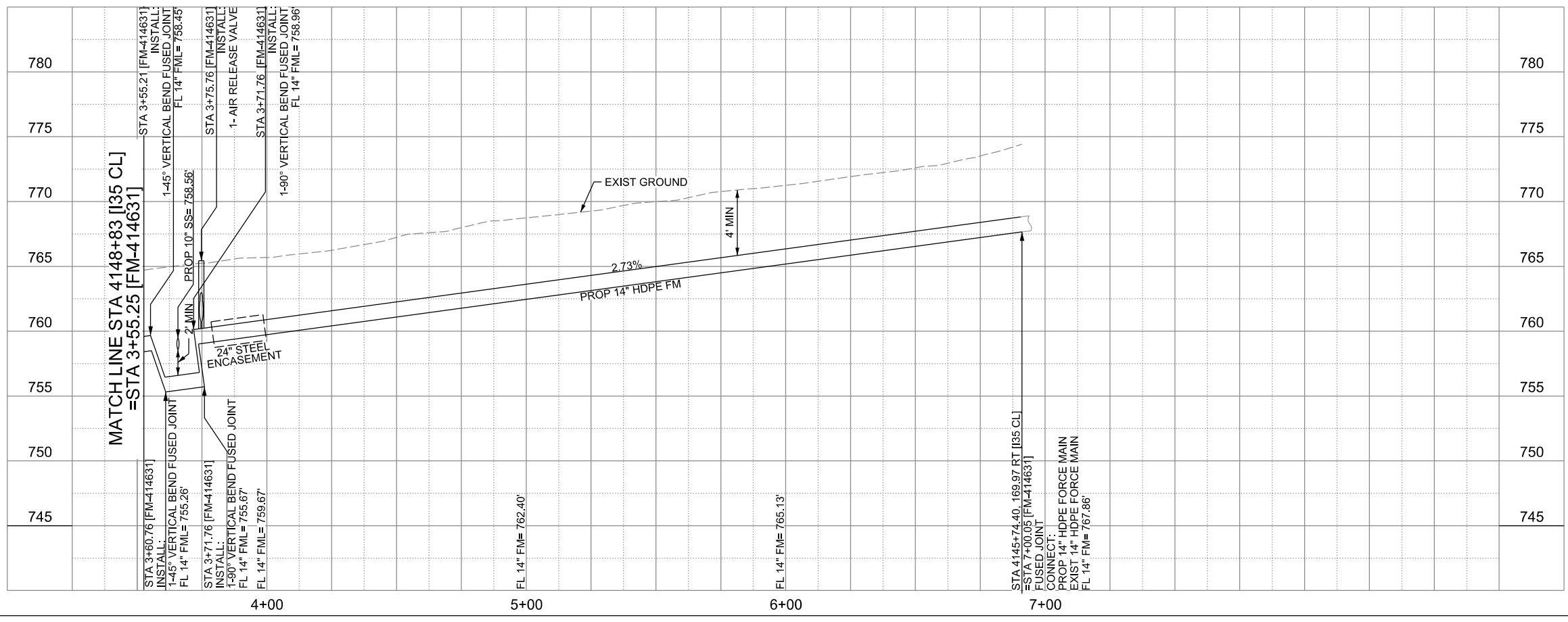
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**IH-35NEX
SEWER
RELOCATION
PROJECT**

FORCE MAIN P&P - CL
STA 4148+83 TO
STA 4153+83



DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.		SHEET NO.
CHECKED: PD, KA	NO.	TEXAS			22
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



OSHA TRENCH SAFETY

1. TRENCH EXCAVATION SHALL COMPLY WITH MINIMUM STANDARDS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, REGULATIONS STANDARDS – 29 CFR – "EXCAVATION" – 1926 SUBPART P.

2. TRENCH SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SHOP DRAWINGS FOR DETAIL PLANS AND SPECIFICATIONS TO PROVIDE ADEQUATE SHORING AND SHEETING STANDARDS THAT MEET THE OSHA STANDARDS AS SET OUT BY STANDARDS – 29 CFR – EXCAVATION" – 1926 SUBPART P. FOR TRENCH SAFETY.

3. CONTINUOUS INSPECTION OF ALL TRENCH EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR JOB SUPERINTENDENT. THE CONTRACTOR CONTROLS THE SIZE, WEIGHT, AND SPEED OF OPERATION OF EQUIPMENT AND PIPE INSTALLATION, WHICH DIRECTLY AFFECTS ALL SAFETY MEASURES IN A TRENCH. IF PROBABLE CAUSE OF UNSAFE TRENCH CONDITIONS EXIST, ALL WORK SHALL CEASE IMMEDIATELY UNTIL NECESSARY PRECAUTIONS TO SAFEGUARD EMPLOYEES ARE TAKEN.



OSHA TRENCH SAFETY

TECHNICAL SPECIFICATION SECTION 02260

ENGINEERING AND PUBLIC WORKS SCALE: 1"=10' DATE: 5/10/19
 DESIGNED BY: [blank] DRAWN BY: BCF SHEET NO.: 1

TCEQ RULES AND REGULATIONS, TAC TITLE 30 PART 1 CHAPTER 217.53.D, "SEPARATION DISTANCES".

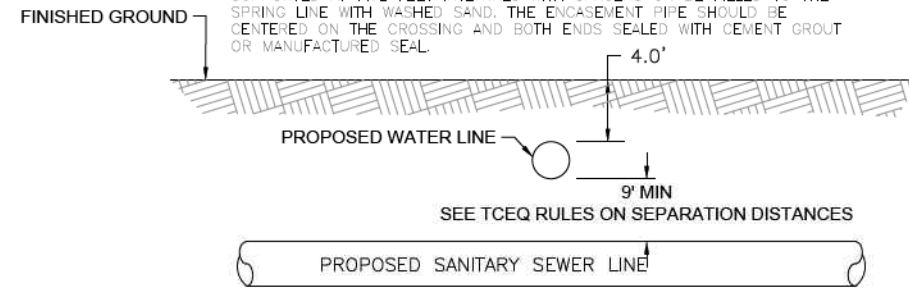
WHEN NEW SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO WATERLINES THAN NINE FEET IN ALL DIRECTIONS. SEWERS THAT PARALLEL WATERLINES MUST BE INSTALLED IN SEPARATE TRENCHES, WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES WILL APPLY.

(A) WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.

(B) WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF SIX INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.

(C) WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE, OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO-FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF SEWER WITHIN NINE FEET OF THE WATERLINE. THIS INITIAL BACKFILL SHALL BE FROM ONE QUARTER DIAMETER BELOW THE CENTERLINE OF THE PIPE TO ONE PIPE DIAMETER (BUT NOT LESS THAN 12 INCHES) ABOVE THE TOP OF THE PIPE.

(D) WHERE A SEWER CROSSES OVER A WATERLINE, ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.



OSHA TRENCH SAFETY

TECHNICAL SPECIFICATION SECTION 02260

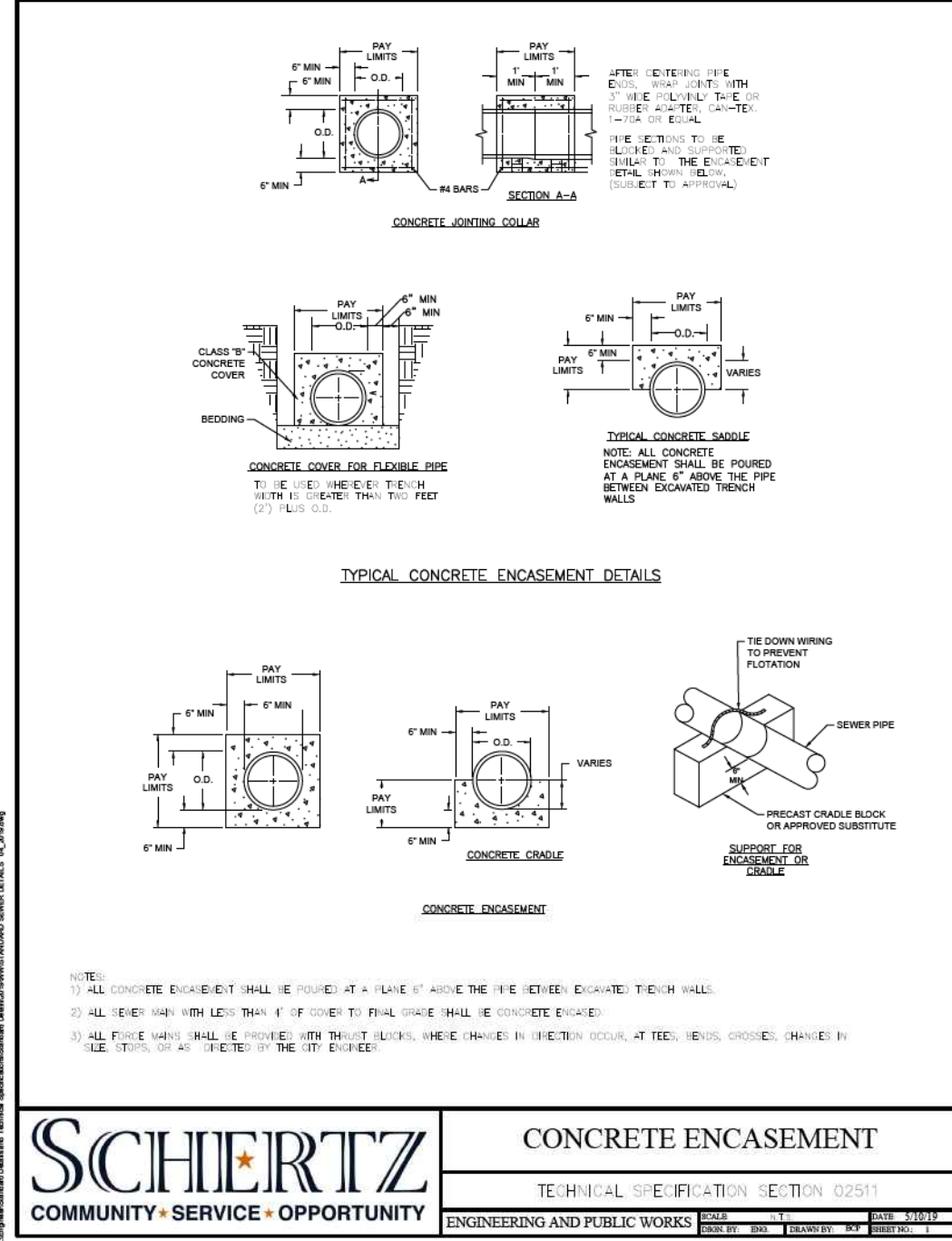
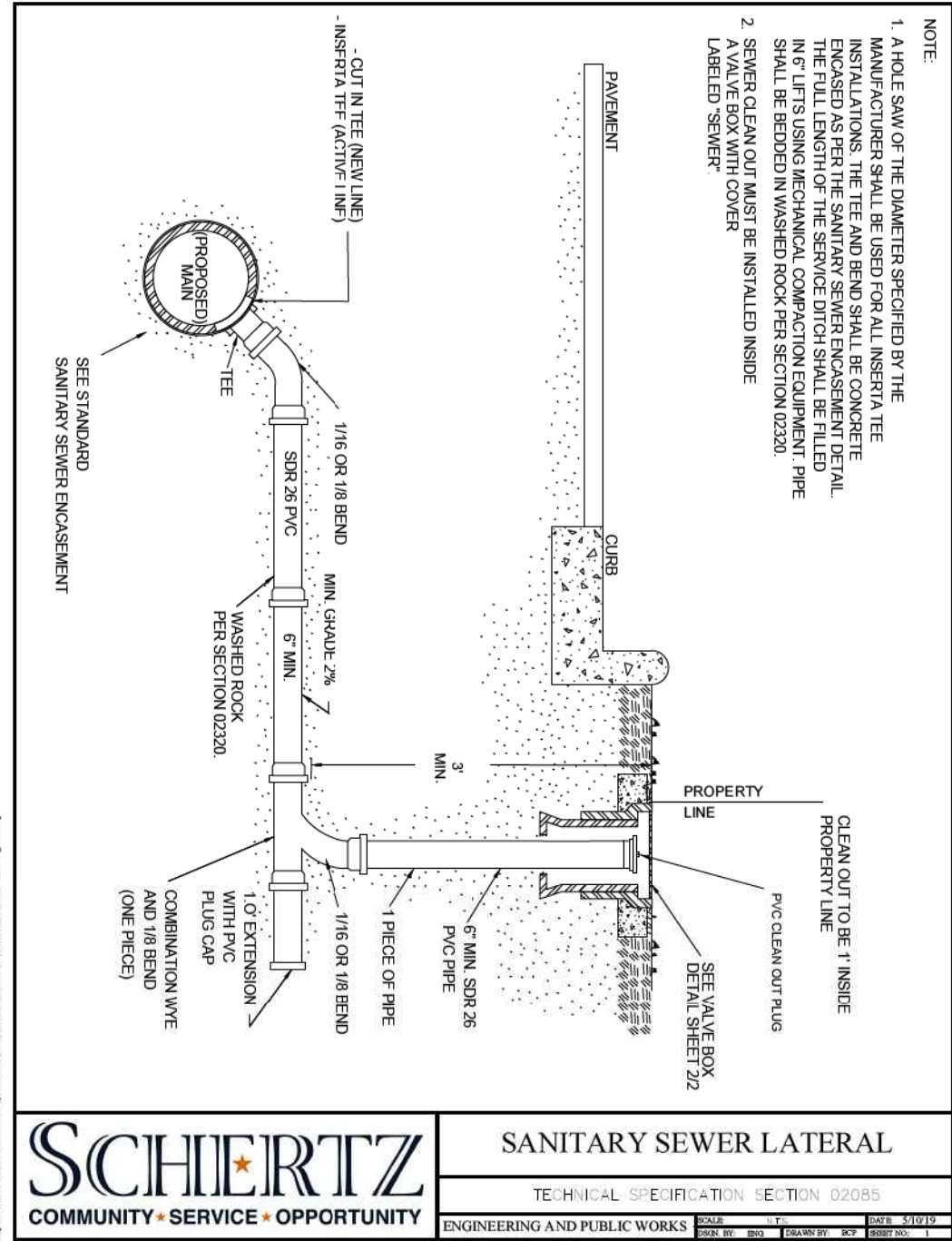
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CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

IH-35NEX
SEWER
RELOCATION
PROJECT



DSGN: NS, RDL	FED. RD. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	
CHECKED: PD, KA	NO.	TEXAS		23	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CHECKED: PD, KA	SAT	COMAL	0016	05	111, ETC



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SANITARY SEWER LATERAL
TECHNICAL SPECIFICATION SECTION 02085
ENGINEERING AND PUBLIC WORKS

SCALE: 1" = 1'-0"
DATE: 5/10/19
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CHECKED BY: BCP
SHEET NO.: 1

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CONCRETE ENCASEMENT
TECHNICAL SPECIFICATION SECTION 02511
ENGINEERING AND PUBLIC WORKS

SCALE: 1" = 1'-0"
DATE: 5/10/19
DRAWN BY: BNO
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SHEET NO.: 1

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

IH-35NEX SEWER RELOCATION PROJECT

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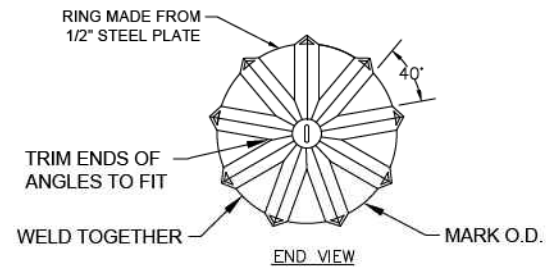
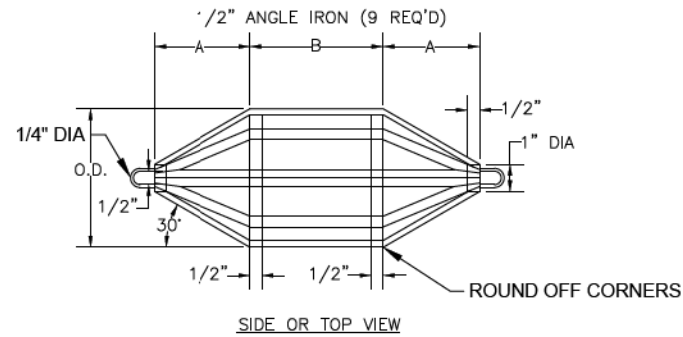
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CHECKED: PD, KA	NO.	TEXAS		24
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC

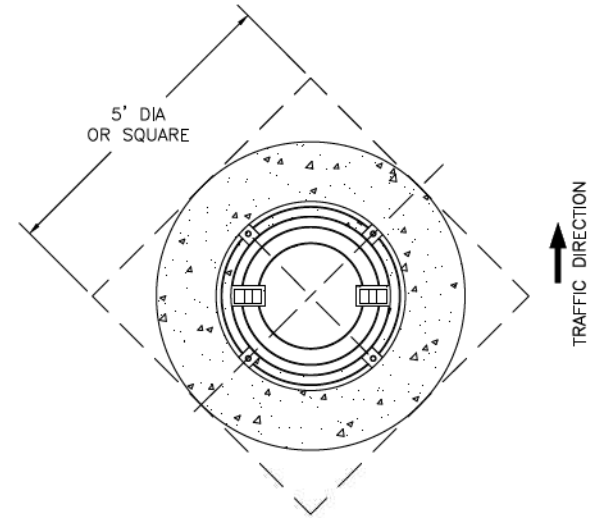
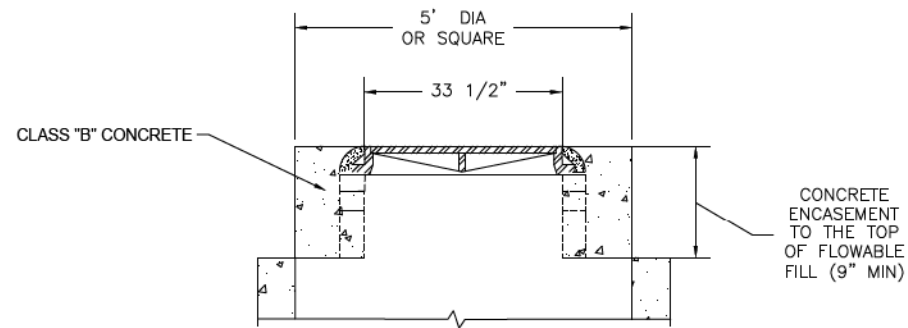
SIZE	A	B*	MANDREL O.D.	
			PSM (SDR-26)	PSM (SDR-26)
6"	4.0"	4.5"	5.50	4.79
8"	5.5"	6.0"	7.37	6.66
10"	7.0"	7.5"	9.21	8.50
12"	8.0"	9.0"	10.96	10.25
15"	10.0"	11.0"	13.42	12.71
18"	12.0"	13.5"	---	---
21"	14.0"	16.0"	---	---
24"	16.0"	18.0"	---	---
27"	18.0"	20.0"	---	---

MINIMUM LENGTH CHART

NOTES:
PVC PIPES AND FITTINGS SIX INCHES (6") TO FIFTEEN INCHES (15") IN DIAMETER SHALL CONFORM TO ASTM D-3034.
PVC PIPES AND FITTINGS EIGHTEEN INCHES (18") TO TWENTY-SEVEN INCHES (27") IN DIAMETER SHALL CONFORM TO ASTM F-679.
THIS INFORMATION IS PROVIDED AS A REFERENCE. ALL DEFLECTION TESTING SHALL BE DONE IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS, TAC TITLE 30 PART 1 CHAPTER 217.57.



NOTE:
ALL MANDRELS MUST BE APPROVED BY CONSTRUCTION INSPECTIONS AND STAMPED BEFORE USE.



NOTE:
1. MANHOLE RING ENCASEMENT IS REQUIRED ON ALL MANHOLES.
2. PAYMENT FOR MANHOLE RING ENCASEMENT SHALL BE INCLUDED IN THE COST OF THE MANHOLE

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DEFLECTION TESTING MANDREL

TECHNICAL SPECIFICATION SECTION 02260

ENGINEERING AND PUBLIC WORKS

SCALE: 1" = 1'-0"
DATE: 5/10/19
DRAWN BY: ENK
CHECKED BY: RCP
DESIGNED BY: RCP
SUBMIT NO.: 1

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MANHOLE RING ENCASEMENT

TECHNICAL SPECIFICATION SECTION 02081 & 02082

ENGINEERING AND PUBLIC WORKS

SCALE: 1" = 1'-0"
DATE: 5/10/19
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SUBMIT NO.: 1

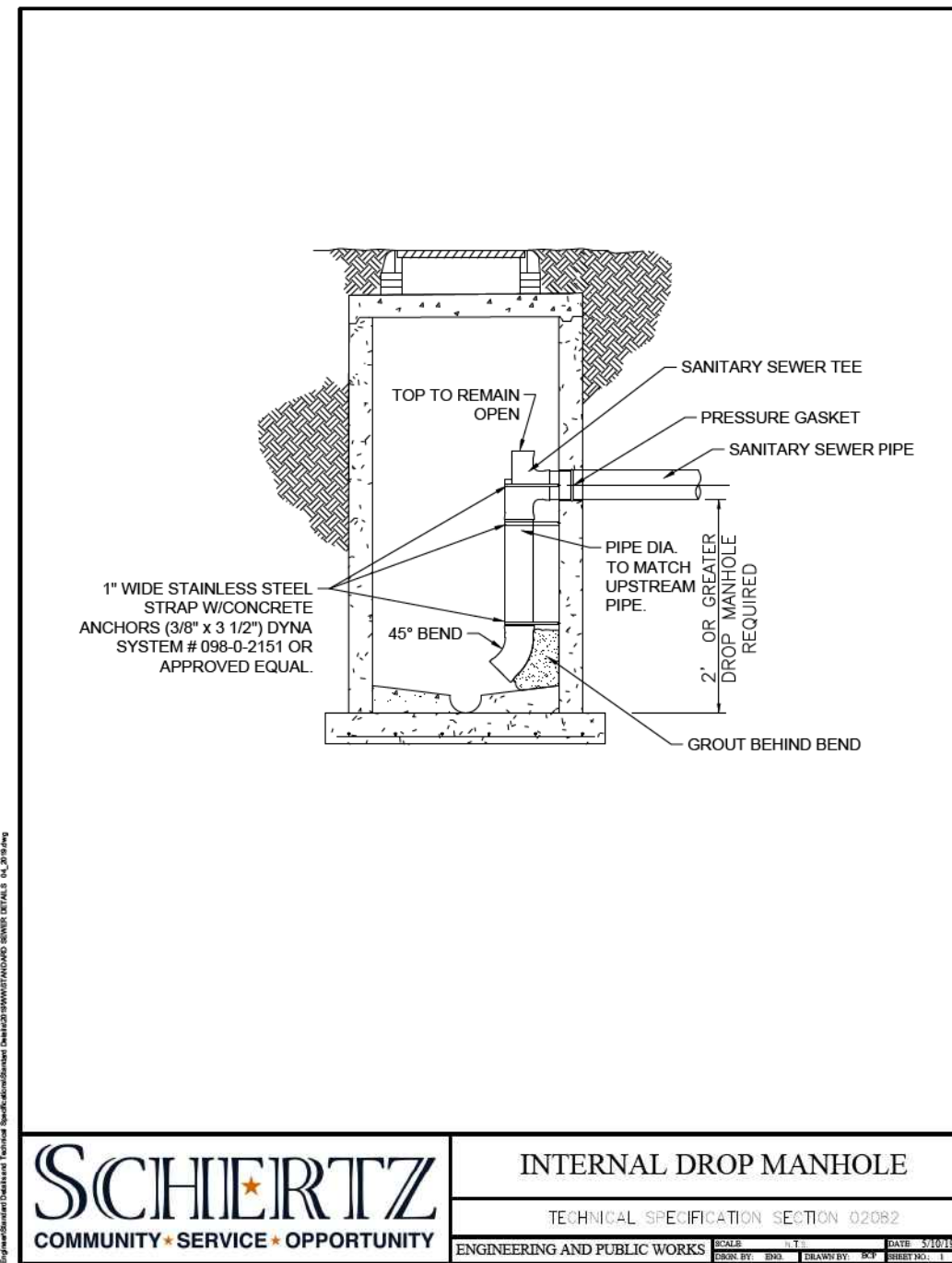
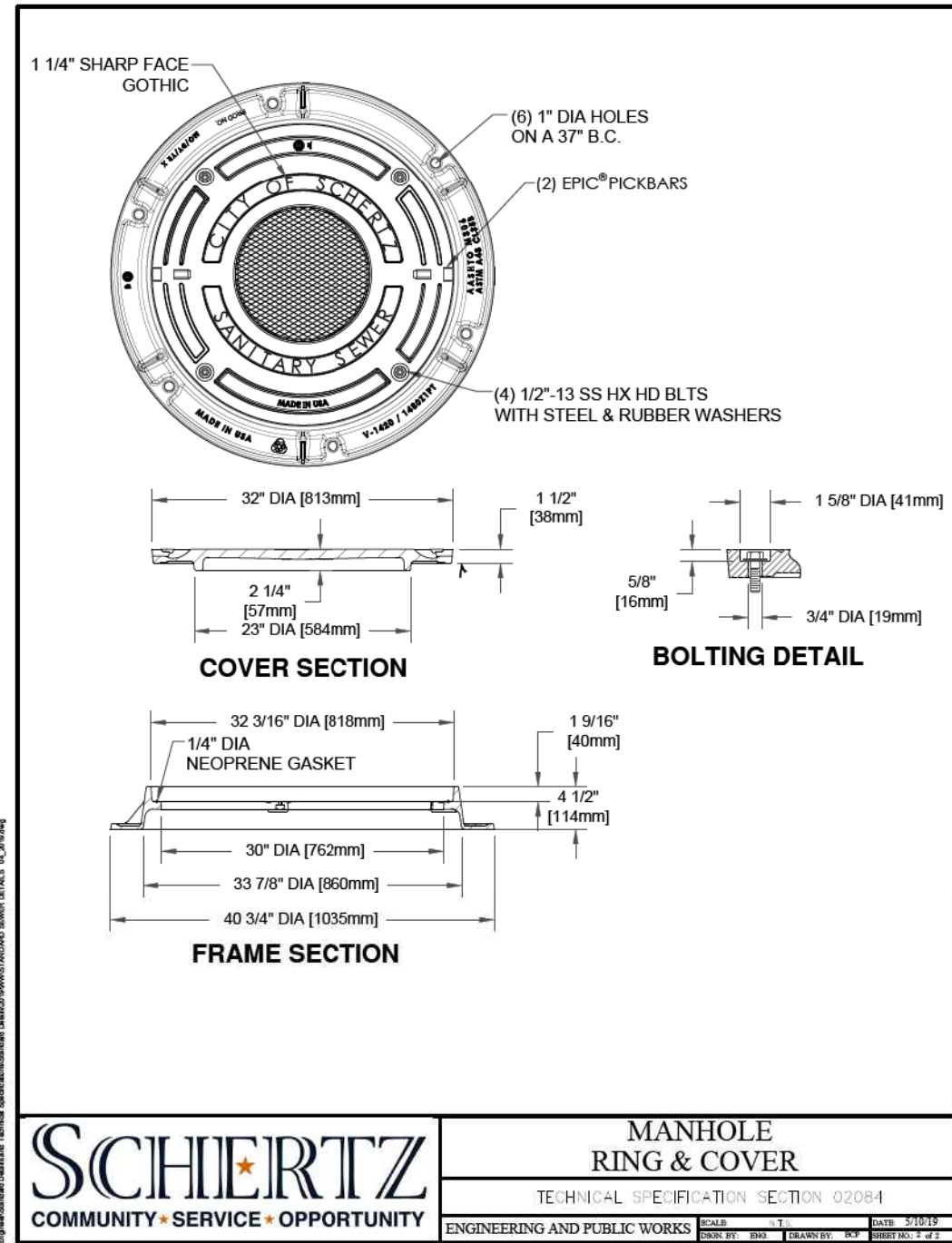
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ENGINEERING AND PUBLIC WORKS



IH-35NEX
SEWER
RELOCATION
PROJECT

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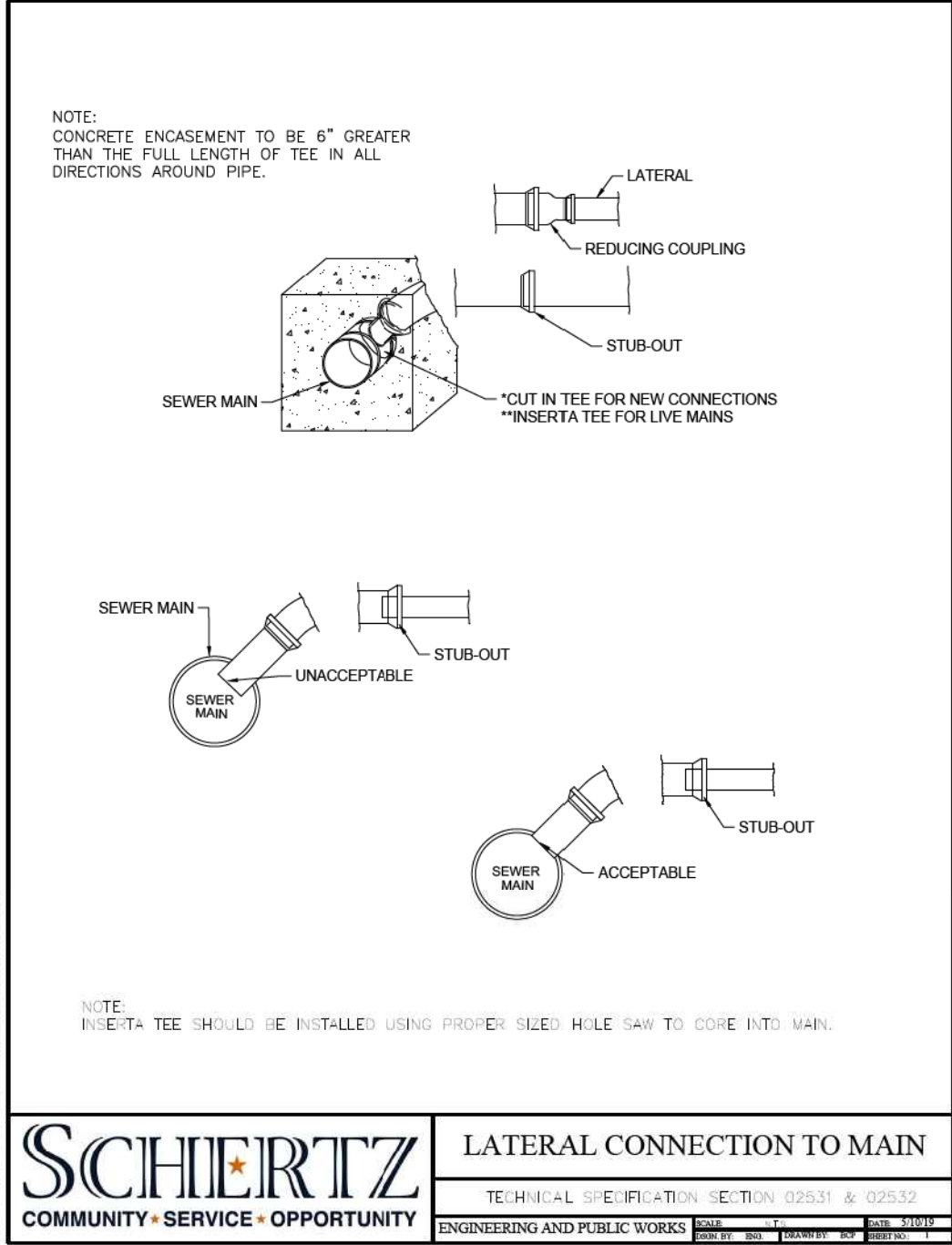
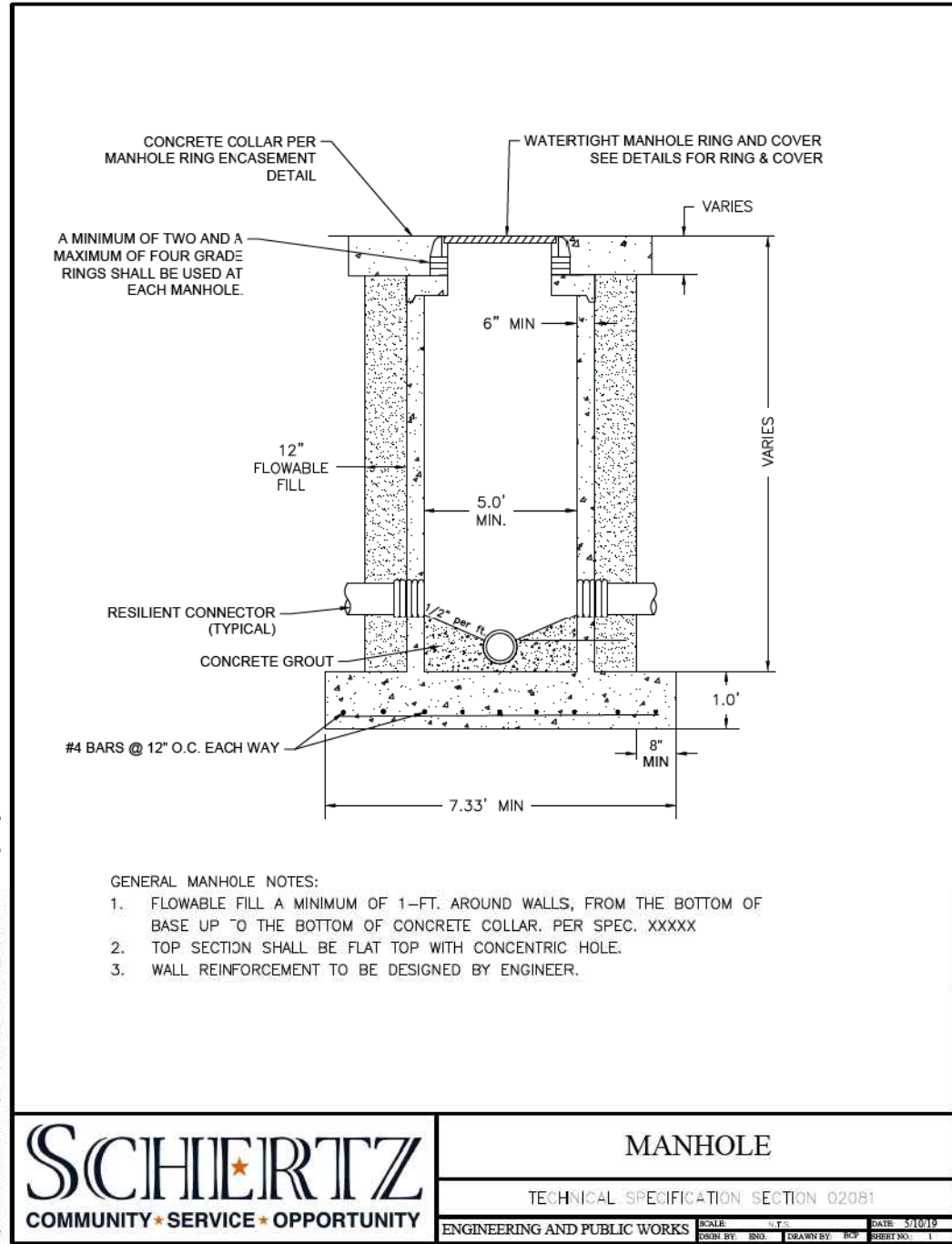
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CHECKED: PD, KA	NO.	TEXAS		25
DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



CITY OF SCHERTZ TEXAS ENGINEERING AND PUBLIC WORKS					
IH-35NEX SEWER RELOCATION PROJECT					
 <small>TBPELS FIRM REGISTRATION #312</small>					
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CHECKED: PD, KA	NO.	TEXAS		26	
DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
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COMMUNITY * SERVICE * OPPORTUNITY

MANHOLE

TECHNICAL SPECIFICATION SECTION 02081

ENGINEERING AND PUBLIC WORKS

SCALE: 1" = 1'-0"

DATE: 3/10/19

DESIGN BY: ISG DRAWN BY: BCF CHECKED BY: I

SCHERTZ
COMMUNITY * SERVICE * OPPORTUNITY

LATERAL CONNECTION TO MAIN

TECHNICAL SPECIFICATION SECTION 02531 & 02532

ENGINEERING AND PUBLIC WORKS

SCALE: 1" = 1'-0"

DATE: 3/10/19

DESIGN BY: ISG DRAWN BY: BCF CHECKED BY: I

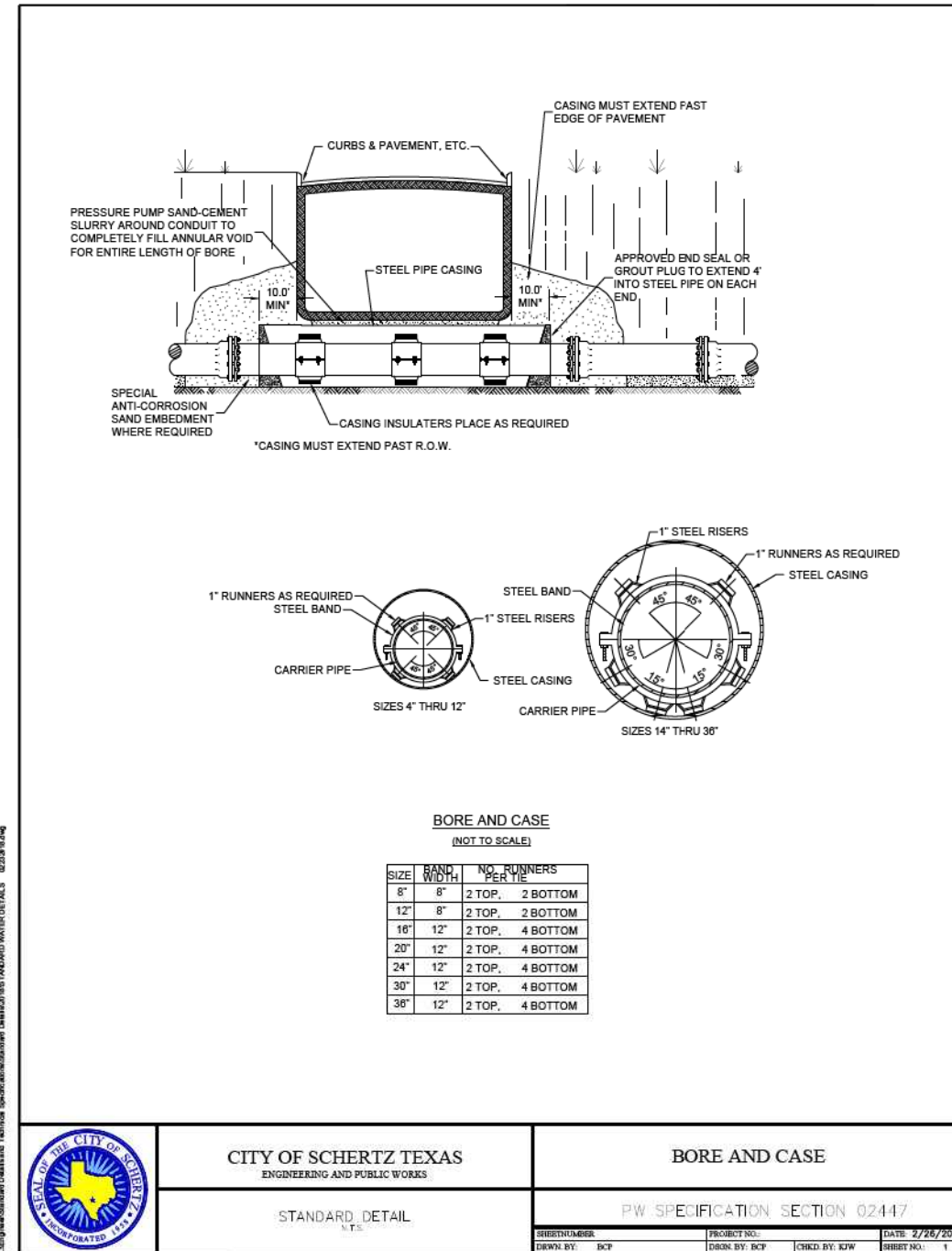
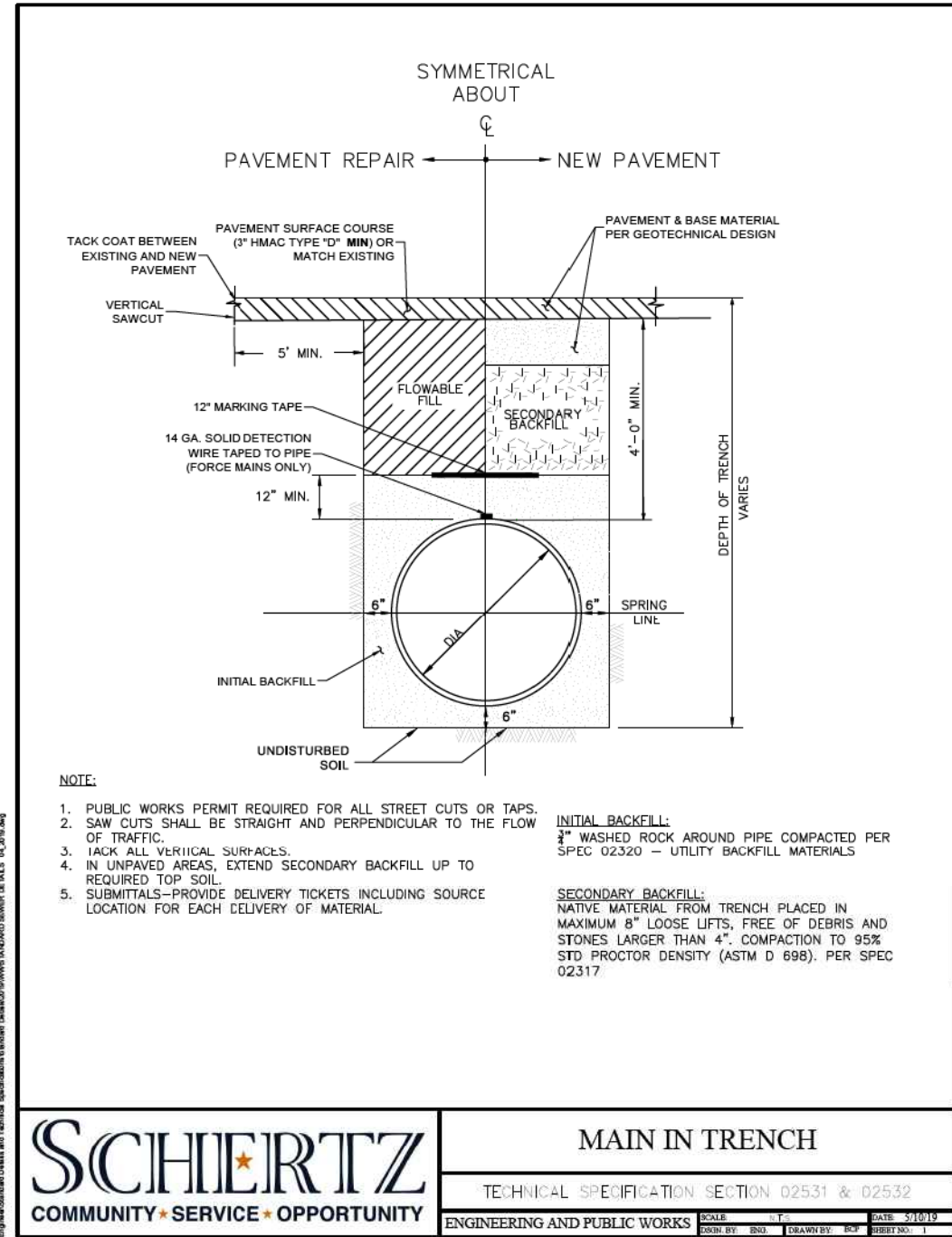
CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

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SEWER
RELOCATION
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DRWN: AT, JG, AI, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
CHECKED: PD, KA	SAT	COMAL	0016	05
				JOB NO. 111, ETC



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MAIN IN TRENCH

TECHNICAL SPECIFICATION SECTION 02531 & 02532

ENGINEERING AND PUBLIC WORKS

SCALE: N.T.S. DATE: 3/10/19
 DRAWN BY: BCL DRAWN BY: BCL SHEET NO.: 1

CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

STANDARD DETAIL
 N.T.S.

BORE AND CASE

PW SPECIFICATION SECTION 02447

SHEET NUMBER: PROJECT NO.: DATE: 2/25/2018
 DRAWN BY: BCF DESIGN BY: BCF CHECKED BY: KJW SHEET NO.: 1

CITY OF SCHERTZ TEXAS
 ENGINEERING AND PUBLIC WORKS

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IH-35NEX SEWER RELOCATION PROJECT

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DRWN: AT, JG, AJ, JB	STATE DIST.	COUNTY	CONTROL NO.	SECTION NO.
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				JOB NO. 111, ETC

Attachment “B” Accounting Method

Actual Cost Method of Accounting

The utility accumulates cost under a work order accounting procedure prescribed by the Federal or State regulatory body and proposes to request reimbursement for actual direct and related indirect costs.

Lump Sum Method of Accounting

The Utility proposed to request reimbursement based on an agreed lump sum amount supported by a detailed cost analysis.

Initial Date
TxDOT

Initial Date
Utility

Attachment “C” Schedule of Work

WATER (JOINT-BID) SCHEDULE:

Estimated Start Date (mm/dd/yyyy): 09/01/2027, subject to physical work restrictions prior to the issuance of environmental clearance as required by the provisions of this agreement. (If construction will be joint bid and included in the highway contract, enter the project let date.)

Estimated Duration (number of days): 577

Estimated Completion Date (mm/dd/yyyy): 03/31/2029

WASTEWATER (NON JOINT-BID) SCHEDULE:

Estimated Start Date: 05/01/2025

Estimated Duration: 120 days

Estimated Completion Date: 09/01/2025

Initial Date
TxDOT

Initial Date
Utility

Attachment "D"

Statement Covering Contract Work

Construction Contract: Complete form ROW-U-48 and ROW-U-48-1 if applicable.

Utility performing with their own forces (timesheets will be required at the time of billing).

Utility will use outside forces to perform the adjustment, complete attached ROW-U-48 or ROW-U-48-1 (joint bid).

Wastewater: Solicitation for bids is to be accomplished through open advertising and contract will be awarded to lowest bidder. Bid Tabs will be provided at the time of billing.

Water: Joint-bid by TxDOT

Engineering Contract:

Utility performing with their own forces (timesheets will be required at the time of billing).

Utility will use consultant contract (continuing contract rate sheets or fee schedule will be required).

TxDOT will procure a utility engineering consultant.

Initial Date
TxDOT

Initial Date
Utility



STATEMENT COVERING UTILITY CONSTRUCTION CONTRACT WORK (AS APPEARING IN ESTIMATE)

U-Number: NA

Utility ID: U00020217

ROW CSJ Number: 0016-06-114 & 0016-05-116

District: San Antonio

County: Guadalupe & Comal

Highway No.: IH35

Federal Project No.: TBD

I, Steve Williams, a duly authorized and qualified representative of City of Schertz, hereinafter referred to as **Owner**, am fully cognizant of the facts and make the following statements in respect to work which will or may be done on a contract basis as it appears in the estimate to which this statement is attached.

It is more economical and/or expedient for **Owner** to contract this adjustment, or **Owner** is not adequately staffed or equipped to perform the necessary work on this project with its own forces to the extent as indicated on the estimate.

Procedure to be Used in Contracting Work

- A. Solicitation for bids is to be accomplished through open advertising and contract is to be awarded to the lowest qualified bidder who submits a proposal in conformity with the requirements and specifications for the work to be performed. Associated bid tabulations will be provided to the **State**.
- B. Solicitation for bids is to be accomplished by circulating to a list of pre-qualified contractors or known qualified contractors and such contract is to be awarded to the lowest qualified bidder who submits a proposal in conformity with the requirements and specifications for the work to be performed. Associated bid tabulations will be provided to the **State**. Such presently known contractors are listed below:
 1.
 2.
 3.
 4.
 5.
- C. The work is to be performed under an existing continuing contract under which certain work is regularly performed for **Owner** and under which the lowest available costs are developed. The existing continuing contract will be made available to the **State** for review at a location mutually acceptable to the **Owner** and the **State**. If only part of the contract work is to be done under an existing contract, give detailed information by attachment hereto.
- D. The utility proposes to contract outside the foregoing requirements and therefore evidence in support of its proposal is attached to the estimate in order to obtain the concurrence of the **State**, and the Federal Highway Administration Division Engineer where applicable, prior to taking action thereon (approval of the agreement shall be considered as approval of such proposal).
- E. The utility plans and specifications, with the consent of the **State**, will be included in the construction contract awarded by the **State**. In the best interest of both the **State** and the **Owner**, the **Owner** requests the **State** to include the plans and specifications for this work in the general contract for construction of Highway _____ in this area, so that the work can be coordinated with the other construction operations; and the construction contract is to be awarded by the **State** to the lowest qualified bidder who submits a proposal in conformity with the requirements and specifications for the work to be performed. If this option is chosen, attach form ROW-U-48-1, the terms of which are incorporated herein by reference.

Signature

Date

Contact/Help

City Manager
Title

**Statement Covering Utility Construction Contract Work – In the State’s
Highway Construction Contract
(As Referenced in Form ROW-U-48, Option E)**

Work Responsibilities

- A. The **Utility** shall provide the following services under this contract:
- i. Responsible for engaging the services of a Texas Registered Professional Engineer to prepare drawings and technical specifications for relocations and adjustments along IH 35 North NEX.
 - ii. Provide the plans and specifications to the State to include in the current planning specifications and estimate package being prepared by representatives of the Texas Department of Transportation’s New Braunfels Area Office.
 - iii. Secure all necessary permitting as may be required for the installation of the water line.
 - iv. Arrange and coordinate with the contractor, through the State, materials and equipment testing, rejection of all work not conforming to minimum requirements of the construction contract documents, maintenance of the proposed waterline during construction, and the relocation of waterline and connection of services to customers.
 - v. Advise the State of work that Utility determines should be corrected or rejected.
 - vi. Arrange, observe, and inspect all acceptance testing and notify the State of the results of these activities.
 - vii. Provide inspection services for the construction, notify the State of defects and deficiencies in the work, and observe actions of the contractor to correct such defects and deficiencies.
 - viii. Assume all responsibility for the maintenance of the existing waterline during and upon completion of the construction contract.
 - ix. Ensure all Texas Commission on Environmental Quality and all other regulatory rules, regulations and laws are strictly adhered to.
 - x. Prepare and submit both a certificate of substantial completion and a list of observed items requiring completion or correction for the relocations and adjustments to the Project Engineer for concurrence.
 - xi. Coordinate all construction activities performed by Utility’s staff for the relocations and adjustments through the Project Engineer.

B. The State shall provide the following services under this contract:

- i. Combine the waterline relocation and adjustment plans with the plans being prepared for the Project.
- ii. Review and approve the final construction plans prior to any construction-related activities. In order to ensure federal and/or state funding eligibility, projects must be authorized by the State prior to advertising for construction.
- iii. Advertise for construction bids, issue bid proposals, receive and tabulate the bids, and award and administer the contract for construction of the Project.
- iv. Negotiate and administer all field changes and change orders required for the Project. All change orders increasing construction costs for Utility's Project shall be submitted to Utility for review and approval together with an evaluation. Utility agrees to review and either approve or disapprove all change orders within five (5) business days after receipt of such order unless Utility Board's approval is necessary in which case Utility shall bring the item to Utility Board as soon as reasonably possible.
- v. Provide overall project management to supervise the day-to-day activities of the construction and monitor the activities of the contractor to promote the timely and efficient completion of the Project in accordance with the approved Plans and Specifications and construction schedule.
- vi. Conduct field observations and coordinate with Utility's inspectors and the contractor to cure defects and deficiencies in the construction prior to final acceptance.
- vii. Make timely payment to the contractor for work performed in connection with the Project.
- viii. Ensure access and permit Utility's inspectors and other authorized representatives to inspect the waterline construction at all times.
- ix. Conduct and coordinate final inspection of the Project in the presence of Utility's Engineer and Inspector, transmit final list of items to be completed or repaired and observe contractor correction of same.
- x. Maintain job file.



HUMAN RESOURCE DEPARTMENT

Alamo NEX
7330 San Pedro Ave
Suite 600
San Antonio, TX 78216

August 27, 2024

Dear Sir or Madam,

My name is Jessica Kurz, and I am the Director of HR and Purchasing for the City of Schertz. I am writing to confirm the hourly and overtime wages for the following employees:

Kathy Woodlee	City Engineer	\$106.00/hour	\$153.53/OT
Eric Schulze	Senior Engineer	\$73.56/hour	\$106.51/OT
Tammy Lawrence	Admin Assistant	\$37.48/hour	\$51.86/OT
Travis Westbrook	Engineer	\$41.32/hour	\$59.56/OT
Samuel Lopez	Inspector	\$45.79/hour	\$64.29/OT
Bryan Timmons	Inspector	\$42.76/hour	\$59.78/OT
Herman Pacheco	Inspector	\$43.55/hour	\$62.82/OT
Jerad Moheit	Public Works	\$56.09/hour	\$75.64/OT
Paul Lopez	Public Works	\$57.36/hour	\$70.04/OT
Jeremy Ryel	Public Works	\$45.49/hour	\$57.36/OT

Please contact me with any questions. I can be reached at jkurz@schertz.com or I can be reached directly by phone at 210.619.1152.

Sincerely,

Jessica Kurz
Director of HR and Purchasing

EXHIBIT B - FEE SCHEDULE

IH35_NEX_UTILITY_Relocations - City of Schertz

Estimated Level of Effort

POSITION DESCRIPTION	No. Sheets	Sr. Project Manager/QAQC	Project Manager/Sr. Engineer	Mid Project Engineer	Engineer EIT	Survey Technician	Admin Assistant	Sr. RPLS Manager	SUE/Survey Crew 2-man	SUE Test Holes (eq)	Lump Sum Fee	Total Labor hrs.	Cost
BILLABLE LABOR RATES		\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00	Lump Sum		
PHASE 1													
PROJECT STARTUP & MANAGEMENT & COORDINATION													
a) Project Management and Coordination (assumes 6 months design, 12 month construction)		40	120	90								220	\$49,260.00
b) Prepare Monthly Invoices and Progress Reports (Assumes 18 Invoices)			9	18			18					45	\$6,633.00
c) Project Meetings (Assumes 20 meetings)			40	40	20							100	\$18,580.00
Total Hours		40	169	118	20	0	18	0	0	0		365	
SUMMARY													
HOURS SUB-TOTALS		40	169	118	20	0	18	0	0	0		365	
BILLABLE RATE PER HOUR		\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00			
TOTAL - PHASE 1		\$1,880.00	\$3,687.00	\$20,886.00	\$2,580.00	\$0.00	\$1,440.00	\$0.00	\$0.00	\$0.00	\$0.00		\$74,473.00
PHASE 2													
DATA COLLECTION AND REVIEW													
TASK 1 Data Acquisition		4	16	40	24							84	\$14,932.00
TASK 2 SUE (Level A Testholes) (Allowance)			2	5	16					20		46	\$63,926.00
TASK 3 Topographic Survey (Allowance)		2	8	16		40		40	120			226	\$43,930.00
Total Hours		6	26	64	40	40	0	40	120	20		356	
SUMMARY													
HOURS SUB-TOTALS		6	26	64	40	40	0	40	120	20		356	
BILLABLE RATE PER HOUR		\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00			
TOTAL - PHASE 2		\$1,782.00	\$5,798.00	\$11,328.00	\$5,160.00	\$5,120.00	\$0.00	\$10,080.00	\$23,520.00	\$60,000.00	\$0.00		\$122,789.00
PHASE 3													
UTILITY DESIGN													
TASK 1 60% PS&E	85												
Utility Investigation (Survey, As-Builts, Field Observations)			12	24	60							96	\$14,664.00
Prepare SUE Pot-hole Plan (Allowance)			2	8	8							18	\$2,894.00
ROW and Easement Review		4	4	12	16							36	\$6,288.00
Review and Coordinate Construction Phasing Plan with TxDOT		4	12	20	32							68	\$11,532.00
Prepare Removal Plan			16	40	40							96	\$15,808.00
Prepare Water Design and Plan and Profile Sheets		12	100	200	420							732	\$115,444.00
Prepare Water Details		8	24	60	84							176	\$29,184.00
Prepare Wastewater Design and Plan and Profile Layout Sheets		8	100	200	420							728	\$114,256.00
Prepare Preliminary Wastewater Bypass Plan			12	50	84							146	\$22,362.00
Prepare Exception to Policy Request and Variance Request Letters			4	8	16							28	\$4,372.00
Prepare Project Schedule		4	24	24								52	\$10,788.00
Prepare Draft Technical Specifications		24	60	40								124	\$27,588.00
OPCC (AACE 56R-08 Class 2)		4	12	30	60							106	\$16,914.00
QAQC		24	20									44	\$11,588.00
Prepare 60% Submittal Package (5 complete sets)				4	12							20	\$2,576.00
Workshop Review Meeting and Walkthrough		8	24	24	24			4				80	\$15,072.00
TASK 2 90% PS&E													
Respond to and Address 60% Comments		2	24	24	80							130	\$20,514.00
Review and Coordinate Construction Phasing Plan with TxDOT		2	12	16	24							54	\$9,198.00
Finalize Removal Plan			4	8	48							60	\$8,500.00
Finalize Water Design and Layout Sheets		4	40	80	340							464	\$68,128.00
Finalize Water Details		4	12	24	50							90	\$14,562.00
Finalize Wastewater Design and Layout Sheets		4	24	60	200							308	\$46,500.00
Finalize Wastewater Bypass Plan			8	12	50							70	\$10,358.00
Finalize Exception to Policy Request and Variance Request Letters			4	8	16							28	\$4,372.00
Update Project Schedule			4	12								16	\$3,016.00
Finalize Technical Specifications		24	24	40								88	\$19,560.00
OPCC (AACE 56R-08 Class 2)		4	8	12	40							64	\$10,256.00
QAQC		24	8									32	\$8,912.00
Prepare 90% Submittal Package (5 complete sets)			1	4	4	12						25	\$3,765.00
Workshop Review Meeting		4	8	8	8							28	\$5,420.00

EXHIBIT B - FEE SCHEDULE
IH35_NEX_Utility_Relocations - City of Schertz
 Estimated Level of Effort

POSITION DESCRIPTION	No. Sheets	Sr. Project Manager/QAQC	Project Manager/ Sr. Engineer	Mid Project Engineer	Engineer EIT	Survey Technician	Admin Assistant	Sr. RPLS Manager	SUE/Survey Crew 2-man	SUE Test Holes (ea)	Lump Sum Fee	Total Labor hrs.	Cost
BILLABLE LABOR RATES													
		\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00	Lump Sum		
TASK 3	100% PS&E												
	Address 90% Comments and Resubmit Package (2 complete sets)	2	18	30	60							110	\$17,658.00
	Prepare Sealed Plans and Specifications	2	24	48	70							144	\$23,472.00
	Prepare Final Exception to Policy Request and Variance Request Letters		2	4	8							14	\$2,186.00
	Prepare Final Engineer's OPCC		8	8	24							40	\$6,286.00
	Prepare 100% submittal (two (2) sets of contract documents)	4	18	32	30							85	\$14,896.00
	Attend Pre-Bid Conference	2	2				2					4	\$1,040.00
	Review and respond to RFIs during Bidding (10 max)	2	12	24								38	\$7,518.00
	Prepare & issue addenda to Bidders (1 max)	2	4	8								14	\$2,982.00
	Review bid tabulation		4	8	8							20	\$3,340.00
	Prepare Sealed Plans and Specifications with Addendums	2	12	12	12							38	\$5,942.00
	Total Hours		189	714	1246	2356	0	10	0	0		4515	
SUMMARY													
	HOURS SUB-TOTALS		189	714	1246	2356	0	10	0	0		4515	
	BILLABLE RATE PER HOUR	\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00			
	TOTAL - PHASE 3	\$56,133.00	\$159,222.00	\$220,542.00	\$309,324.00	\$0.00	\$800.00	\$0.00	\$0.00	\$0.00	\$0.00		\$740,821.00
PHASE 4													
CONSTRUCTION PHASE SERVICES													
TASK 1	Submittals (10 max)	4	12	12								28	\$5,988.00
TASK 2	RFIs (20 max)	4	8	8	24							44	\$7,484.00
TASK 3	Review of Contractor's Requested Changes (20 max)	4	8	16	20							48	\$8,384.00
TASK 4	Review of Contractor's Pay Application (10 max)	4	8	18								28	\$5,804.00
TASK 5	Record Documents	4	24	24	60							132	\$21,108.00
	Total Hours		20	60	76	124	0	0	0	0		280	
SUMMARY													
	HOURS SUB-TOTALS		20	60	76	124	0	0	0	0		280	
	BILLABLE RATE PER HOUR	\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00			
	TOTAL - PHASE 4	\$5,940.00	\$13,380.00	\$13,452.00	\$15,996.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$48,768.00
SPECIFIED ADDITIONAL SERVICES													
ROW Acquisition Services													
TASK 1	Appraisal Services (Assumes 6 Parcels)		4								\$ 18,000.00	4	\$18,892.00
	Appraisal Review Services (Assumes 6 Parcels)		4								\$ 9,600.00	4	\$10,492.00
	Acquisition Services (Assumes 6 Parcels)		2								\$ 68,000.00	2	\$66,446.00
TASK 2	Prepare Metes and Bounds for six (6) Properties		2								\$ 30,000.00	2	\$30,446.00
	Survey Services to Stake Proposed easement Corners for Parcel Acquisition for six (6) Properties		2								\$ 30,000.00	2	\$30,446.00
	Total Hours		0	14	0	0	0	0	0	0		14	
SUMMARY													
	HOURS SUB-TOTALS		0	14	0	0	0	0	0	0		14	
	BILLABLE RATE PER HOUR	\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00			
	TOTAL - SPECIFIED ADDITIONAL SERVICES	\$0.00	\$3,122.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$153,600.00		\$156,722.00
TOTAL PROJECT SUMMARY													
	HOURS SUB-TOTALS		255	983	1504	2540	40	28	40	120	20	5530	\$1,143,372.00
	BILLABLE RATE PER HOUR	\$297.00	\$223.00	\$177.00	\$129.00	\$128.00	\$80.00	\$252.00	\$196.00	\$3,000.00		5530	
	TOTAL PROJECT SUMMARY	\$75,735.00	\$219,209.00	\$266,208.00	\$327,660.00	\$5,120.00	\$2,240.00	\$10,080.00	\$23,520.00	\$60,000.00	\$153,600.00		\$1,143,372.00

EXHIBIT B - FEE SCHEDULE

IH35_NEX_UTILITY_Relocations Construction Services - City of Schertz Estimated Level of Effort

POSITION DESCRIPTION	No. Sheets	Sr. Project Manager/QAQC	Project Manager/Sr. Engineer	Mid Project Engineer	Engineer EIT	Construction Inspector IV	Admin Assistant	Sr. RPLS Manager	SUE/Survey Crew 2-man	SUE Test Holes (ea)	Construction Truck (mo)	Total Labor hrs.	Cost
BILLABLE LABOR RATES		\$297.00	\$223.00	\$177.00	\$129.00	\$140.00	\$80.00	\$252.00	\$196.00	\$3,000.00	\$1,500.00		
		Hour	Hour	Hour	Hour	Hour	Hour	Hour	Hour	Each	Month		
PHASE 1													
PROJECT STARTUP & MANAGEMENT & COORDINATION													
a) Project Management and Coordination (21 months construction)		20					24					44	\$7,860.00
b) Prepare Monthly Invoices and Progress Reports (Assumes 21 Invoices)		21					21					42	\$7,917.00
c) Project Meetings (Assumes 20 meetings)		21				42						63	\$12,117.00
Total Hours		62	0	0	0	42	45	0	0	0	0	149	
SUMMARY													
HOURS SUB-TOTALS		62	0	0	0	42	45	0	0	0	0	149	-
BILLABLE RATE		\$297.00	\$223.00	\$177.00	\$129.00	\$140.00	\$80.00	\$252.00	\$196.00	\$3,000.00	\$1,500.00		-
TOTAL - PHASE 1		\$18,414.00	\$0.00	\$0.00	\$0.00	\$5,880.00	\$3,600.00	\$0.00	\$0.00	\$0.00	\$0.00		\$27,894.00
PHASE 2													
WASTEWATER OBSERVATION													
TASK 1 Construction Observation (Assumes 3 months Construction)		15				240					3.00	255	\$38,058.00
TASK 2												0	\$0.00
TASK 3												0	\$0.00
Total Hours		15	0	0	0	240	0	0	0	0	3	255	
SUMMARY													
HOURS SUB-TOTALS		15	0	0	0	240	0	0	0	0	3	255	-
BILLABLE RATE PER		\$297.00	\$223.00	\$177.00	\$129.00	\$140.00	\$80.00	\$252.00	\$196.00	\$3,000.00	\$1,500.00		-
TOTAL - PHASE 2		\$4,455.00	\$0.00	\$0.00	\$0.00	\$33,600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,500.00		\$42,555.00
PHASE 3													
WATER													
TASK 1 Construction Observation (Assumes 18 months Construction)		54				1440					18	1494	\$217,656.00
												0	\$0.00
												0	\$0.00
Total Hours		54	0	0	0	1440	0	0	0	0	18	1494	
SUMMARY													
HOURS SUB-TOTALS		54	0	0	0	1440	0	0	0	0	18	1494	-
BILLABLE RATE		\$297.00	\$223.00	\$177.00	\$129.00	\$140.00	\$80.00	\$252.00	\$196.00	\$3,000.00	\$1,500.00		-
TOTAL - PHASE 3		\$16,038.00	\$0.00	\$0.00	\$0.00	\$201,600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27,000.00		\$244,638.00
TOTAL PROJECT SUMMARY													
HOURS SUB-TOTALS		131	0	0	0	1722	45	0	0	0	21	1898	\$315,087.00
BILLABLE RATE		\$297.00	\$223.00	\$177.00	\$129.00	\$140.00	\$80.00	\$252.00	\$196.00	\$3,000.00	\$1,500.00	1898	
TOTAL PROJECT SUMMARY		\$38,907.00	\$0.00	\$0.00	\$0.00	\$241,080.00	\$3,600.00	\$0.00	\$0.00	\$0.00	\$31,500.00		\$315,087.00

Attachment “E” Utility Joint Use Agreement – (ROW-U-JUA) and/or RULIS Permit

- Utility Joint Use Agreement (ROW–U–JUA)
 Plans with joint use area highlighted are included.

- RULIS Permit Number: TBD
The utility should obtain an approved permit before the start of construction inside of the highway right of way.

- Quitclaim will be submitted at the Final Billing

Initial Date
TxDOT

Initial Date
Utility

Attachment “F” Eligibility Ratio

Eligibility Ratio established: 100 %

- Non-interstate Highway (Calculations attached)
- Interstate Highway
- Toll Road
- SP2125 Approved Application (100%)
Minute Order #: _____
- Master Utility Agreement

ROW Utility Manual Chapter 8, Section 2

In developing the ratio, line length or number of poles is restricted to facilities located within the existing and proposed highway right of way. Facilities located outside the existing and proposed right of way limits will not be used in developing the ratio.

Please see example of eligibility ratio calculations below.

Plan Sheet or Page#	In Easement (Eligible) Existing # of Poles or LF	In Public ROW (Ineligible) Existing # of Poles or LF
1	0	0
2	84	22
3	90	385
4	23	6
Total	412	503

EXAMPLE

Total Existing # of Poles or LF (Eligible)	412
Total Existing # of Poles or LF (Ineligible)	503
Total Existing # of Poles or LF	915
Total Existing # of Poles or LF (Eligible) divided by the Total Existing # of Poles or LF	45.03%

Initial _____ Date _____
TxDOT

Initial _____ Date _____
Utility

Attachment "G" Betterment Calculation and Estimate

- Elective Betterment Ratio established: _____ %
 - Calculation is attached and the justification is included below
 - A betterment and an in-kind estimate are included

- Forced Betterment
 - To comply with regulated industry standards, laws, and regulations. (Supporting documentation required)
 - To comply with published current design practice followed by the utility in its own work. (Supporting documentation required)
 - Due to proposed roadway design. (Provide explanation below)

- Not Applicable

A statement explaining Elective and/or Forced Betterment:

Initial Date
TxDOT

Initial Date
Utility

Attachment “H” Proof of Property Interest

Supporting documentation of compensable property interest that establishes reimbursement eligibility as referenced in Texas Transportation Code §203.092.

Property interest documented through applicable affidavits and required attachments.

ROW-U-Affidavit

The roadway improvement project is designated as an Interstate Highway project; therefore, no supporting documentation of compensable interest is required. Supporting documentation for existing easements is required for easement replacement.

Toll Road (Supporting documentation of compensable property interest required if more than 50% eligibility ratio is applied)

SP2125

Master Utility Agreement

Initial Date
TxDOT

Initial Date
Utility



County: Comal
Highway: IH 35
C.C.S.J.: 0016-05-111
R.C.S.J.: 0016-06-115
AVO: 35005.015

LEGAL DESCRIPTION OF PARCEL 3

PART 1

Being a 0.0105 acre (457 sq. ft.) parcel of land situated in the Rafael Garza Survey, Abstract No. 175 and being a portion of Lot 1, Block 1 of the Texas Tack and Trailer subdivision recorded on March 10, 2005 under Document Number 200506009115 of the Official Public Records of Comal County, Texas (O.P.R.C.C.T.) and a portion of a called 15.000 acre tract described to Schertz 35, LLC. recorded on January 7, 2008 under Document Number 200806000649 of the O.P.R.C.C.T.; said 0.0105 acre parcel being more particularly described as follows:

COMMENCING, at a Mag nail with washer stamped "TXDOT SAT SURVEY" found on the existing northwest right-of-way (R.O.W.) line of Interstate Highway 35 (variable width R.O.W.) (Document Number 202106030671, O.P.R.C.C.T) for a south corner of said Lot 1 and said 15.000 acre tract;

THENCE, North 59° 21' 21" East, along the existing northwest R.O.W. line of said Interstate Highway 35 and the south line of said Lot 1 and said 15.000 acre tract, a distance of 101.03 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the **POINT OF BEGINNING** and south corner of the herein described parcel, having surface coordinates displayed in U.S. survey feet of N: 13,779,077.02, E: 2,211,679.88;

- 1) **THENCE**, North 30° 54' 53" West, crossing said Lot 1 and said 15.000 acre tract, a distance of 41.44 feet to a point for the west corner of the herein described parcel;
- 2) **THENCE**, North 59° 21' 21" East, continuing across said Lot 1 and said 15.000 acre tract, a distance of 11.02 feet to a ½" iron rod with blue plastic cap stamped "HALFF ESMT" set on the northeast line of said Lot 1 and said 15.000 acre tract, and on the southwest line of a called 20 acre tract described to Schertz 35, LLC recorded on November 18, 2016 under Document Number 201606044069 of the O.P.R.C.C.T., and the west line of a 16 foot sanitary sewer easement described to the City of Schertz recorded on April 13, 2009 under Document Number 200906011952 of the O.P.R.C.C.T. for the north corner of the herein described parcel;
- 3) **THENCE**, South 30° 54' 53" East (South 30° 25' 09" East – record call) along the east line of said Lot 1 and said 15.000 acre tract and the southwest line of said 20 acre tract and said 16 foot easement, a distance of 41.44 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set in the existing northwest R.O.W. line of said Interstate Highway 35 for the east corner of the herein described parcel;
- 4) **THENCE**, South 59° 21' 21" West (North 59° 21' 21" East – record call) along the existing northwest R.O.W. line of said Interstate Highway 35 and the south line of said Lot 1 and said 15.000 acre tract, a distance of 11.02 feet to the **POINT OF BEGINNING** and containing 0.0105 acres (457 square feet) of land.



PART 2

Being a 0.0082 acre (356 sq. ft.) parcel of land situated in the Rafael Garza Survey, Abstract No. 175 and being a portion of a called 20 acre tract of land described to Schertz 35, LLC recorded on November 18, 2016 under Document Number 201606044069 of the Official Public Records of Comal County, Texas (O.P.R.C.C.T.); said 0.0082 acre parcel being more particularly described as follows:

COMMENCING, at a magnetic nail found on the existing northwest right-of-way (R.O.W.) line of Interstate Highway 35 (variable width R.O.W.) (Document Number 202106030671, O.P.R.C.C.T) for a south corner of Lot 1, Block 1 of the Texas Tack and Trailer subdivision recorded on March 10, 2005 under Document Number 200506009115 of the O.P.R.C.C.T. and a south corner of a called 15.000 acre tract described to Schertz 35, LLC recorded on January 7, 2008 under Document Number 200806000649 of the O.P.R.C.C.T.;

THENCE, North 59° 21' 21" East, along the existing northwest R.O.W. line of said Interstate Highway 35 and the south line of said Lot 1 and said 15.000 acre tract, passing at a distance of 112.05 feet a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the south corner of said 20 acre tract and the south corner of a 16 foot sanitary sewer easement described to the City of Schertz recorded on April 13, 2009 under Document Number 200906011952 of the O.P.R.C.C.T., continuing for a total distance of 128.05 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the **POINT OF BEGINNING** and the south corner of the herein described parcel, having surface coordinates displayed in U.S. survey feet of N: 13,779,090.79, E: 2,211,703.12;

- 1) **THENCE**, North 30° 54' 53" West, crossing said 20 acre tract along the northeast line of said 16 foot easement, a distance of 41.44 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the west corner of the herein described parcel;
- 2) **THENCE**, North 59° 21' 21" East, continuing across said 20 acre tract, a distance of 8.58 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the north corner of the herein described parcel;
- 3) **THENCE**, South 30° 54' 53" East, continuing across said 20 acre tract a distance of 41.44 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set on the northwest R.O.W. line of said Interstate Highway 35 and the south line of said 20 acre tract for the east corner of the herein described parcel;
- 4) **THENCE**, South 59° 21' 21" West, along the existing northwest R.O.W. line of said Interstate Highway 35 and the southeast line of said 20 acre tract, a distance of 8.58 feet to the **POINT OF BEGINNING** and containing 0.0082 acres (356 square feet) of land.

Acreage Table

Part 1	0.0105 acres	457 square feet
Part 2	0.0082 acres	356 square feet
Total	0.0187 acres	813 square feet



Notes:

1. The basis of bearing is "grid north". All bearings and coordinates shown are based on the Texas State Plane coordinate system, South Central Zone (4204), North American datum of 1983 (NAD 83) 2011 adjustment, epoch 2010.00
2. All coordinates and distances shown are surface and may be converted to grid by dividing the project surface adjustment factor of 1.00017.
3. All horizontal values were derived and verified by GPS (RTK) observation using the TxDot VRS network, TxDot RRP Station Guadalupe_TXSE.
4. All measurements are in US survey feet.
5. A property description of even date was prepared in conjunction with this plat.
6. Abstracting completed July 10, 2024.
7. Field surveys completed August 1, 2024.

This survey was prepared without the benefit of a title commitment, matters of record may exist where non are shown.

I hereby certify that this survey was made on the ground of the property shown hereon, under my supervision.

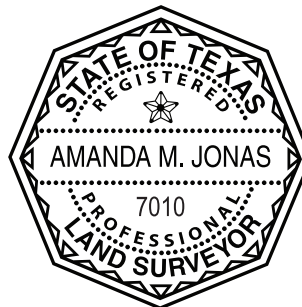
A handwritten signature in blue ink that reads "Amanda M. Jonas".

Amanda M. Jonas

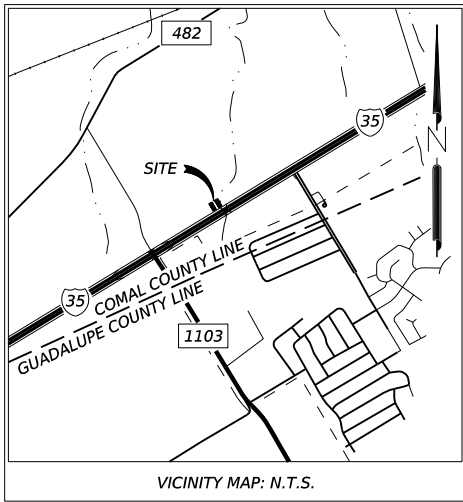
Registered Professional Land Surveyor

Texas No. 7010

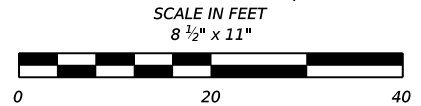
T.B.P.E.L.S. Surveying Firm No. 10194444



"EXHIBIT A"



CALLED 0.0357 ACRE
PARCEL 128
STATE OF TEXAS
DOC. NO. 202106021541
O.P.R.C.C.T.
RECORDED APRIL 22, 2021

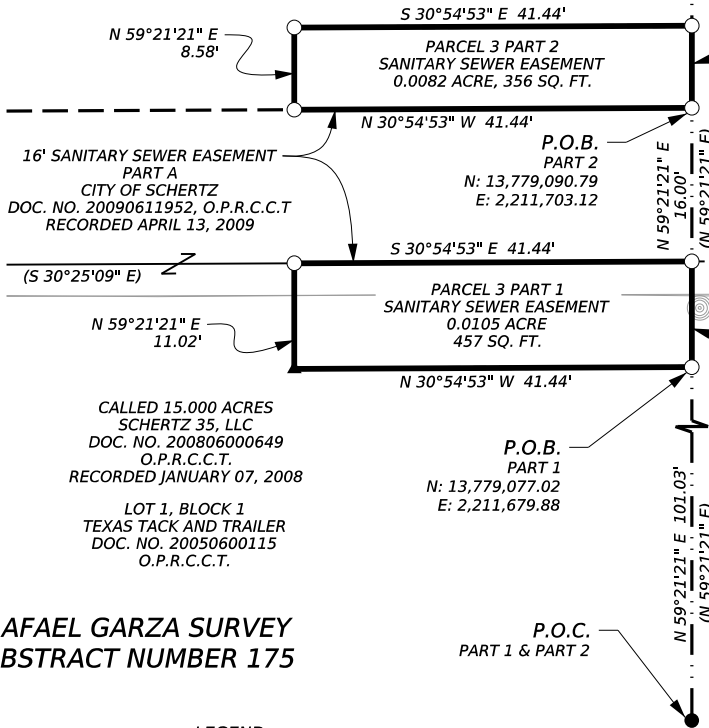


CALLED 20 ACRES
SCHERTZ 35, LLC
DOC. NO. 201606044069
O.P.R.C.C.T.
RECORDED NOVEMBER 18, 2016

CALLED 15.000 ACRES
SCHERTZ 35, LLC
DOC. NO. 200806000649
O.P.R.C.C.T.
RECORDED JANUARY 07, 2008

LOT 1, BLOCK 1
TEXAS TACK AND TRAILER
DOC. NO. 20050600115
O.P.R.C.C.T.

CALLED 20 ACRES
SCHERTZ 35, LLC
DOC. NO. 201606044069
O.P.R.C.C.T.
RECORDED NOVEMBER 18, 2016



S 59°21'21" W 8.58'
(N 59°21'21" E) PARENT TRACT INSET
N.T.S.

S 59°21'21" W 11.02'
(N 59°21'21" E)

INTERSTATE HIGHWAY 35
VARIABLE WIDTH R.O.W.

CALLED 0.1286 ACRE
PARCEL 125
STATE OF TEXAS
DOC. NO. 202106030671
O.P.R.C.C.T.
RECORDED
JUNE 8, 2021

ACREAGE TABLE

PART	ACRE	SQUARE FEET
PART 1	0.0105 ACRE	457 SQUARE FEET
PART 2	0.0082 ACRE	356 SQUARE FEET
TOTAL	0.0187 ACRE	813 SQUARE FEET

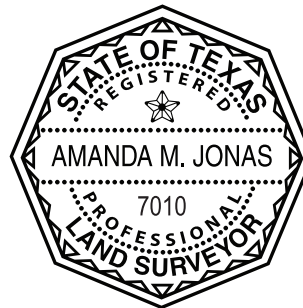
RAFAEL GARZA SURVEY
ABSTRACT NUMBER 175

LEGEND

- EXISTING RIGHT OF WAY
- PROPERTY LINE
- - - EXISTING EASEMENT LINE
- - - HISTORIC RIGHT OF WAY PARCEL LINE
- FOUND MAG NAIL WITH WASHER STAMPED "TXDOT SAT SURVEY"
- SET 1/2-INCH IRON ROD WITH BLUE CAP STAMPED "HALFF ESMT"
- CALCULATED POINT
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF COMMENCEMENT
- R.O.W. RIGHT OF WAY
- O.P.R.C.C.T. OFFICAL PUBLIC RECORDS, COMAL COUNTY, TEXAS

NOTES:

1. THE BASIS OF BEARING IS "GRID NORTH". ALL BEARINGS AND COORDINATES SHOWN ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983 (NAD 83) 2011 ADJUSTMENT, EPOCH 2010.00
2. ALL COORDINATES AND DISTANCES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING THE PROJECT SURFACE ADJUSTMENT FACTOR OF 1.00017.
3. ALL HORIZONTAL VALUES WERE DERIVED AND VERIFIED BY GPS (RTK) OBSERVATION USING THE TXDOT VRS NETWORK, TXDOT RRP STATION GUADALUPE_TXSE.
4. ALL MEASUREMENTS ARE IN US SURVEY FEET.
5. A PROPERTY DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS PLAT.
6. ABSTRACTING COMPLETED JULY 10, 2024.
7. FIELD SURVEYS COMPLETED AUGUST 1, 2024.



THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. EASEMENTS OR OTHER MATTERS OF RECORD MAY EXIST WHERE NONE ARE SHOWN.

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND OF THE PROPERTY SHOWN HEREON, UNDER MY SUPERVISION

Amanda Jonas 08/08/2024
DATE
AMANDA M. JONAS
REGISTERED PROFESSIONAL
LAND SURVEYOR
TEXAS REGISTRATION NO. 7010

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS



100 NE INTERSTATE 410 LOOP
SUITE 701
SAN ANTONIO, TEXAS 78216
TEL (210) 798-1895
FAX (210) 798-1898
TBPELS FIRM #10029607



4615 Northwest Loop 410
San Antonio, TX 78229
210.615.1110

PARCEL 3

PAGE 4 OF 4

FED. ROAD DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.	
6		IH 35	
STATE	DIST.	COUNTY	
TEXAS	16	COMAL	
C.C.S.J.	0016	05	111
R.C.S.J.	0016	06	115



County: Comal
Highway: IH 35
C.C.S.J.: 0016-05-111
R.C.S.J.: 0016-06-115
AVO: 35005.015

LEGAL DESCRIPTION OF PARCEL 4

Being a 0.0067 acre (292 sq. ft.) parcel of land situated in the Rafael Garza Survey, Abstract No. 175 and being a portion of a called 0.119 acre tract of land described to Green Side Investments Group, Inc. recorded on March 19, 2001 under Document Number 200106009338 of the Official Public Records of Comal County, Texas (O.P.R.C.C.T.); said 0.0067 acre parcel being more particularly described as follows:

COMMENCING, at a 3-¼ inch aluminum cap stamped "TEXAS DEPT OF TRANSPORTATION R.O.W. MONUMENT" found on the existing southeast right-of-way (R.O.W.) line of Interstate Highway 35 (variable width R.O.W.) (Document Number 202206005289, O.P.R.C.C.T.) for a corner at a jog in said R.O.W. and a corner on a northwest line of a called 80.4996 acre tract of land described as Tract One to Nolly Caribbean Properties, LLC. recorded on June 15, 2017 under Document Number 201706029109 of the O.P.R.C.C.T.;

THENCE, North 30° 51' 03" West, along the existing southeast R.O.W. line of said Interstate Highway 35 and a northwest line of said 80.4996 acre tract, a distance of 20.00 feet to a point for a corner of said jog in existing southeast R.O.W. line of said Interstate Highway 35 and a corner on a northwest line of said 80.4996 acre tract;

THENCE, South 59° 13' 32" West, along the existing southeast R.O.W. line of said Interstate Highway 35 and a northwest line of said 80.4996 acre tract, a distance of 13.08 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set on the existing southeast R.O.W. line of said Interstate Highway 35 for the **POINT OF BEGINNING** and the northeast corner of the herein described parcel, having surface coordinates displayed in U.S. survey feet of N: 13,778,792.60, E: 2,211,834.39;

- 1) **THENCE**, South 28° 10' 33" East (South 27° 47' 53" East – deed call) along a northeast line of said 0.119 acre tract and a west line said 80.4996 acre tract, a distance of 12.94 feet, to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the east corner of said 0.119 acre tract and the east corner of the herein described parcel;
- 2) **THENCE**, South 18° 10' 12" West (South 18° 33' 01" West – deed call) along an east line of said 0.119 acre tract and a west line said 80.4996 acre tract, a distance of 10.81 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set on the east line of said 0.119, and the west line of said 80.4996 acre tract for the southeast corner of the herein described parcel;
- 3) **THENCE**, South 59° 08' 57" West, crossing said 0.119 acre tract, a distance of 8.15 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the south corner of the herein described parcel;



- 4) **THENCE**, North 30° 51' 03" West, continuing across said 0.119 acre tract, a distance of 16.17 feet to a Mag nail with washer set on the west line of said 0.119 acre tract and the east line of a called 0.707 acre tract described to 35 Investments, LTD. recorded on February 15, 2006 under Document Number 200606006391 of the O.P.R.C.C.T. for the west corner of the herein described parcel;
- 5) **THENCE**, North 20° 07' 20" East (North 20° 30' 00" East – deed call) along the west line of said 0.119 acre tract and the east line of said 0.707 acre tract, a distance of 6.14 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set on the existing southeast R.O.W. line of said Interstate Highway 35, the west line of said 0.119 acre tract and the east line of said 0.707 acre tract for the northwest corner of the herein described parcel;
- 6) **THENCE**, North 59° 13' 32" East (South 59° 13' 32" East – record call) along the existing southeast R.O.W. line of said Interstate Highway 35 and a north line of said 0.119 acre tract, a distance of 12.15 feet to the **POINT OF BEGINNING** and containing 0.0067 acres (292 sq. ft.) of land;



Notes:

1. The basis of bearing is "grid north". All bearings and coordinates shown are based on the Texas State Plane coordinate system, South Central Zone (4204), North American datum of 1983 (NAD 83) 2011 adjustment, epoch 2010.00
2. All coordinates and distances shown are surface and may be converted to grid by dividing the project surface adjustment factor of 1.00017.
3. All horizontal values were derived and verified by GPS (RTK) observation using the TxDot VRS network, TxDot RRP Station Guadalupe_TXSE.
4. All measurements are in US survey feet.
5. A property description of even date was prepared in conjunction with this plat.
6. Abstracting completed July 10, 2024.
7. Field surveys completed August 1, 2024.

Commitment for title insurance prepared by Alamo Title Insurance, GF No. SAT-08-4000082401325, effective date of June 23, 2024, and issued on June 27, 2024.

I hereby certify that this survey was made on the ground of the property shown hereon, under my supervision.

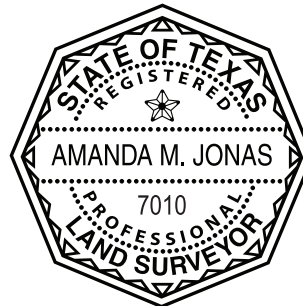


Amanda M. Jonas

Registered Professional Land Surveyor

Texas No. 7010

T.B.P.E.L.S. Surveying Firm No. 10194444

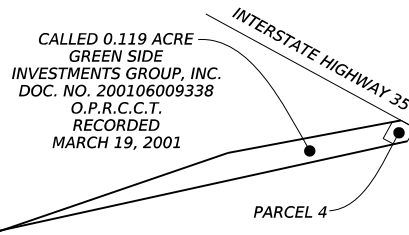
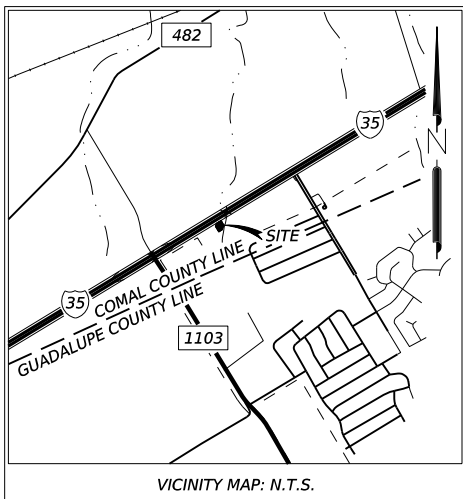


"EXHIBIT A"

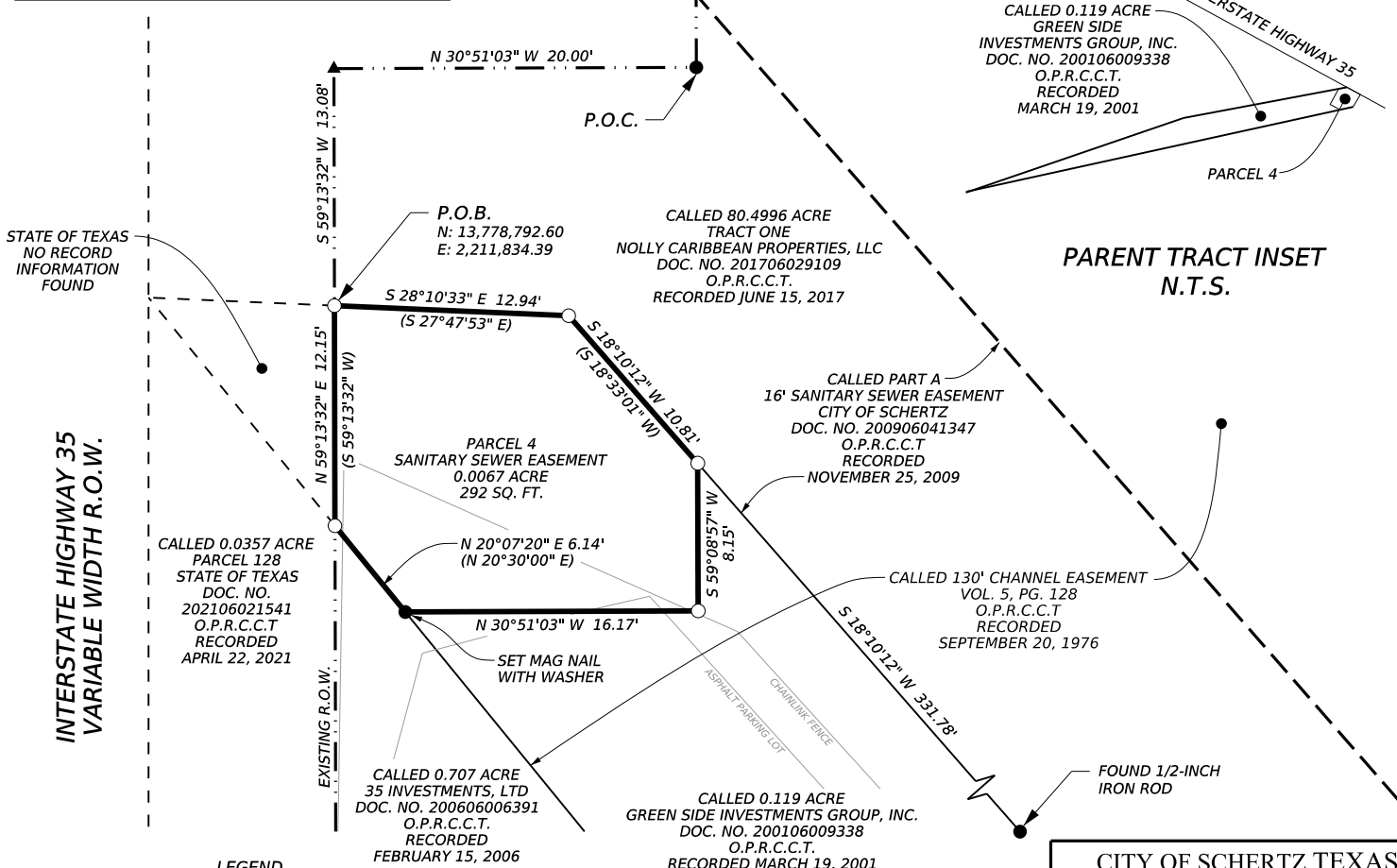
RAFAEL GARZA SURVEY
ABSTRACT NUMBER 175

CALLED 0.2980 ACRE
PARCEL 129
STATE OF TEXAS
DOC. NO. 202206005289
O.P.R.C.C.T.
RECORDED FEBRUARY 2, 2022

SCALE IN FEET
8 1/2" x 11"



PARENT TRACT INSET
N.T.S.

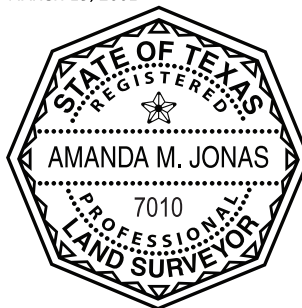


LEGEND

- EXISTING RIGHT OF WAY
 - PROPERTY LINE
 - - - EXISTING EASEMENT LINE
 - - - HISTORIC RIGHT OF WAY PARCEL LINE
 - FOUND 3 1/4-INCH ALUMINUM CAP STAMPED
"TEXAS DEPT OF TRANSPORTATION R.O.W. MONUMENT (UNLESS NOTED)"
 - SET 1/2-INCH IRON ROD WITH BLUE CAP STAMPED "HALFF ESMT"
 - ▲ CALCULATED POINT
 - P.O.B.
 - P.O.C.
 - R.O.W.
 - O.P.R.C.C.T.
- OFFICAL PUBLIC RECORDS, COMAL COUNTY, TEXAS

NOTES:

1. THE BASIS OF BEARING IS "GRID NORTH". ALL BEARINGS AND COORDINATES SHOWN ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983 (NAD 83) 2011 ADJUSTMENT, EPOCH 2010.00
2. ALL COORDINATES AND DISTANCES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING THE PROJECT SURFACE ADJUSTMENT FACTOR OF 1.00017.
3. ALL HORIZONTAL VALUES WERE DERIVED AND VERIFIED BY GPS (RTK) OBSERVATION USING THE TXDOT VRS NETWORK, TXDOT RRP STATION GUADALUPE_TXSE.
4. ALL MEASUREMENTS ARE IN US SURVEY FEET.
5. A PROPERTY DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS PLAT.
6. ABSTRACTING COMPLETED JULY 10, 2024.
7. FIELD SURVEYS COMPLETED AUGUST 1, 2024.



COMMITMENT FOR TITLE INSURANCE PREPARED BY ALAMO TITLE INSURANCE, GF NO. SAT-08-4000082401325, EFFECTIVE DATE OF JUNE 23, 2024, AND ISSUED ON JUNE 27, 2024.

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND OF THE PROPERTY SHOWN HEREON, UNDER MY SUPERVISION

Amanda Jonas 08/08/2024
DATE
AMANDA M. JONAS
REGISTERED PROFESSIONAL
LAND SURVEYOR
TEXAS REGISTRATION NO. 7010

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS



100 NE INTERSTATE 410 LOOP
SUITE 701
SAN ANTONIO, TEXAS 78216
TEL (210) 798-1895
FAX (210) 798-1895
TBPELS FIRM #10029607



4615 Northwest Loop 410
San Antonio, TX 78229
210.615.1110

PARCEL 4

SHEET 4 OF 4

FED. ROAD DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6		IH 35
STATE	DIST.	COUNTY
TEXAS	16	COMAL
C.C.S.J.	0016	05 111
R.C.S.J.	0016	06 115



County: Comal
Highway: IH 35
C.C.S.J.: 0016-05-111
R.C.S.J.: 0016-06-115
AVO: 35005.015

LEGAL DESCRIPTION OF PARCEL 5

Being a 0.2189 acre (9,534 sq. ft.) parcel of land situated in the Rafael Garza Survey, Abstract No. 175 and being a portion of a called 80.4996 acre tract of land described as Tract 1 to Nolly Caribbean Properties, LLC recorded on June 15, 2017 under Document Number 201706029109 of the Official Public Records of Comal County, Texas (O.P.R.C.C.T.); said 0.2189 acre parcel being more particularly described as follows:

COMMENCING, at a ½ inch iron rod found for a north corner of said 80.4996 acre tract and the southeast corner of a called 0.0342 acre tract of land described as Tract 2 to the Purpose Church recorded on September 28, 2022 under Document Number 202206042907 of the O.P.R.C.C.T. from which a ½ inch iron rod found at an angle corner of said 80.4996 acre tract bears South 83° 57' 22" East, a distance of 263.09 feet;

THENCE, South 81° 13' 01" West, crossing said 80.4996 acre tract, a distance of 73.78 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the **POINT OF BEGINNING** and the east corner of the herein described parcel, having surface coordinates displayed in U.S. survey feet of N: 13,779,278.15, E: 2,212,691.72;

- 1) **THENCE**, South 59° 20' 33" West, continuing across said 80.4996 acre tract, a distance of 700.80 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set on the east line of a called 0.517 acre variable width utility easement described to the City of Schertz, Texas recorded on February 10, 2022 under Document Number 202206006618 for the southwest corner of the herein described parcel;
- 2) **THENCE**, North 37° 05' 33" East, continuing across said 80.4996 acre tract and along the east line of said 0.517 acre easement, a distance of 37.39 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the northwest corner of the herein described parcel;
- 3) **THENCE**, North 59° 21' 14" East, continuing across said 80.4996 acre tract and along the southeast line of a called 0.283 acre 16 foot sanitary sewer easement described to Guadco Municipal Utility Districts No. 1 and No. 2 recorded on September 25, 1986 in Volume 531, Page 835 of the O.P.R.C.C.T., a distance of 652.14 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the northeast corner of the herein described parcel;
- 4) **THENCE**, South 75° 43' 01" East, continuing across said 80.4996 acre tract and along the south line of a called 0.013 acre variable width utility easement described to the City of Schertz, Texas recorded on February 10, 2022 under Document Number 202206006619, a distance of 19.86 feet to the **POINT OF BEGINNING** and containing 0.2189 acre (9,534 sq. ft.) of land;



Notes:

1. The basis of bearing is "grid north". All bearings and coordinates shown are based on the Texas State Plane coordinate system, South Central Zone (4204), North American datum of 1983 (NAD 83) 2011 adjustment, epoch 2010.00
2. All coordinates and distances shown are surface and may be converted to grid by dividing the project surface adjustment factor of 1.00017.
3. All horizontal values were derived and verified by GPS (RTK) observation using the TxDot VRS network, TxDot RRP Station Guadalupe_TXSE.
4. All measurements are in US survey feet.
5. A property description of even date was prepared in conjunction with this plat.
6. Abstracting completed July 10, 2024.
7. Field surveys completed August 1, 2024.

Commitment for title insurance prepared by Alamo Title Insurance, GF No. SAT-08-4000082401326, effective date of June 23, 2024, and issued on June 28, 2024.

I hereby certify that this survey was made on the ground of the property shown hereon, under my supervision.

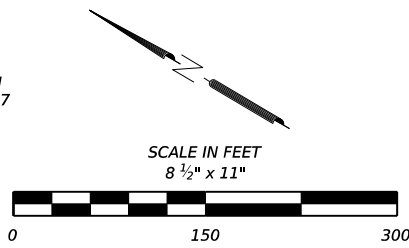
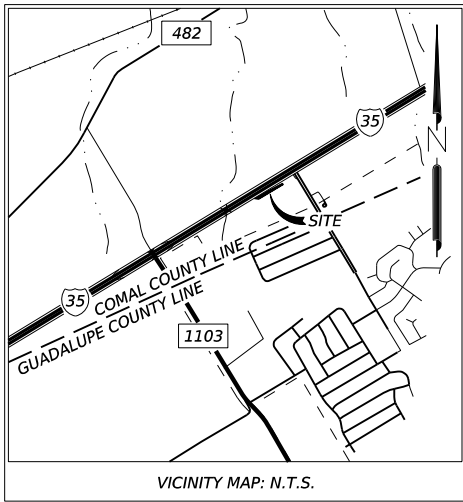
Amanda M. Jonas

Registered Professional Land Surveyor

Texas No. 7010

T.B.P.E.L.S. Surveying Firm No. 10194444

"EXHIBIT A"



CALLED 0.0342 ACRE TRACT 2 THE PURPOSE CHURCH DOC. NO. 202206042907 O.P.R.C.C.T. RECORDED SEPTEMBER 28, 2022

CALLED 4.626 ACRES TRACT 1 THE PURPOSE CHURCH DOC. NO. 202206042907 O.P.R.C.C.T. RECORDED SEPTEMBER 28, 2022

S 75°43'01" E 19.86'

P.O.C.

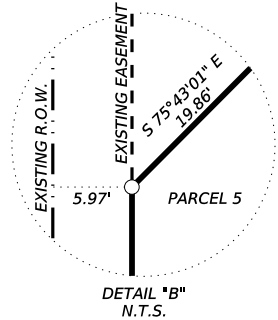
S 81°13'01" W 73.78'

P.O.B. N: 13,779,278.15 E: 2,212,691.72

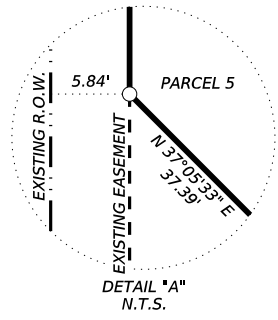
RAFAEL GARZA SURVEY
ABSTRACT NUMBER 175

CALLED 0.283 ACRE 16' SANITARY SEWER EASEMENT GUADCO MUNICIPAL UTILITY DISTRICTS NO. 1 AND NO. 2 VOL. 531, PG. 835 O.P.R.G.C.T. RECORDED SEPTEMBER 25, 1986

CALLED 80.4996 ACRE TRACT ONE NOLLY CARIBBEAN PROPERTIES, LLC DOC. NO. 201706029109 O.P.R.C.C.T. RECORDED JUNE 15, 2017

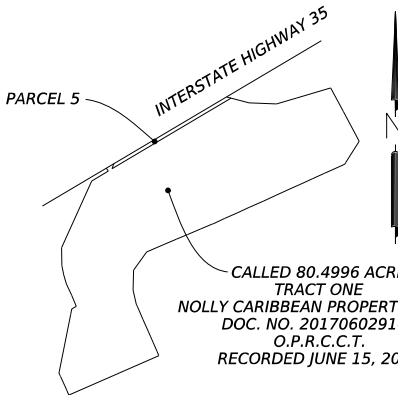


PARCEL 5 SANITARY SEWER EASEMENT 0.2189 ACRE 9,534 SQ. FT.



CALLED 0.517 ACRE VARIABLE WIDTH UTILITY EASEMENT THE CITY OF SCHERTZ, TEXAS DOC. NO. 202206006618 O.P.R.C.C.T. RECORDED FEBRUARY 10, 2022

CALLED 16' SANITARY EASEMENT VOL. 5, PG. 128 O.P.R.C.C.T. RECORDED SEPTEMBER 20, 1976



PARENT TRACT INSET
N.T.S.

INTERSTATE HIGHWAY 35
VARIABLE WIDTH R.O.W.

N 37°05'33" E 37.39'

CALLED 0.2980 ACRE PARCEL 129 STATE OF TEXAS DOC. NO. 202206005289 O.P.R.C.C.T. RECORDED FEBRUARY 2, 2022

CALLLED 0.013 ACRE VARIABLE WIDTH UTILITY EASEMENT THE CITY OF SCHERTZ, TEXAS DOC. NO. 202206006619 O.P.R.C.C.T. RECORDED FEBRUARY 10, 2022

LEGEND

- EXISTING RIGHT OF WAY
- PROPERTY LINE
- - - EXISTING EASEMENT LINE
- - - HISTORIC RIGHT OF WAY PARCEL LINE
- FOUND 1/2-INCH IRON ROD (UNLESS NOTED)
- SET 1/2-INCH IRON ROD WITH BLUE CAP STAMPED "HALFF ESMT"
- CALCULATED POINT
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF COMMENCEMENT
- R.O.W. RIGHT OF WAY
- O.P.R.C.C.T. OFFICAL PUBLIC RECORDS, COMAL COUNTY, TEXAS

NOTES:

1. THE BASIS OF BEARING IS "GRID NORTH". ALL BEARINGS AND COORDINATES SHOWN ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983 (NAD 83) 2011 ADJUSTMENT, EPOCH 2010.00
2. ALL COORDINATES AND DISTANCES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING THE PROJECT SURFACE ADJUSTMENT FACTOR OF 1.00017.
3. ALL HORIZONTAL VALUES WERE DERIVED AND VERIFIED BY GPS (RTK) OBSERVATION USING THE TXDOT VRS NETWORK, TXDOT RRP STATION GUADALUPE_TXSE.
4. ALL MEASUREMENTS ARE IN US SURVEY FEET.
5. A PROPERTY DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS PLAT.
6. ABSTRACTING COMPLETED JULY 10, 2024.
7. FIELD SURVEYS COMPLETED AUGUST 1, 2024.

COMMITMENT FOR TITLE INSURANCE PREPARED BY ALAMO TITLE INSURANCE, GF NO. SAT-08-4000082401326 EFFECTIVE DATE OF JUNE 23, 2024, AND ISSUED ON JUNE 28, 2024.

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND OF THE PROPERTY SHOWN HEREON, UNDER MY SUPERVISION

AMANDA M. JONAS REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS REGISTRATION NO. 7010

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

SCHERTZ
COMMUNITY • SERVICE • OPPORTUNITY

halff

100 NE INTERSTATE 410 LOOP
SUITE 701
SAN ANTONIO, TEXAS 78216
TEL (210) 798-1895
FAX (210) 798-1898
TBPELS FIRM #10029607



4615 Northwest Loop 410
San Antonio, TX 78229
210.615.1110

PARCEL 5

PAGE 3 OF 3

FED. ROAD DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6		IH 35
STATE	DIST.	COUNTY
TEXAS	16	COMAL
C.C.S.J.	0016	05 111
R.C.S.J.	0016	06 115



County: Comal
Highway: IH 35
C.C.S.J.: 0016-05-111
R.C.S.J.: 0016-06-115
AVO: 35005.015

LEGAL DESCRIPTION OF PARCEL 6

Being a 0.0575 acre (2,506 sq. ft.) parcel of land situated in the Rafael Garza Survey, Abstract No. 175 and being a portion of a called 4.626 acre tract of land described as Tract 1 and a portion of a called 0.0342 acre tract of land described as Tract 2 to The Purpose Church recorded on September 28, 2022 under Document Number 202206042907 of the Official Public Records of Comal County, Texas (O.P.R.C.C.T.); said 0.0575 acre parcel being more particularly described as follows:

COMMENCING, at a ½ inch iron rod found on the north line of a called 80.4996 acre tract of land described as Tract One to Nolly Caribbean Properties, recorded on June 15, 2017 under Document Number 201706029109 of the O.P.R.C.C.T. for the southwest corner of said 4.626 acre tract and the southeast corner of said 0.0342 acre tract from which a ½ inch iron rod found at an angle corner of said 4.626 acre tract bears South 83° 57' 22" East, a distance of 263.09 feet;

THENCE, North 83° 57' 22" West, along the south line of said 0.0342 acre tract and a northern line of said 80.4996 acre tract, a distance of 46.47 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the **POINT OF BEGINNING** and the west corner of the herein described tract having surface coordinates displayed in U.S. survey feet of N: 13,779,294.31, E: 2,212,718.42;

- 1) **THENCE**, North 14° 13' 32" East, crossing said 0.0342 acre tract along the east line of a called 0.005 acre variable width utility easement described to the City of Schertz, Texas recorded under Document Number 201806029104 of the O.P.R.C.C.T., a distance of 19.38 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set on the southeast line of a 16 foot sanitary sewer easement described to Guadco Municipal Utility Districts No. 1 and No. 2 recorded on August 8, 1986 in Volume 522, Page 777 of the O.P.R.C.C.T. for the northwest corner of the herein described parcel;
- 2) **THENCE**, North 59° 21' 14" East, crossing said 0.0342 acre tract and crossing said 4.626 acre tract and along the southeast line of said 16 foot easement, a distance of 83.36 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the north corner of the herein described parcel;
- 3) **THENCE**, North 62° 47' 15" East, continuing along the southeast line of said 16 foot easement and crossing said 4.626 acre tract, a distance of 129.22 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the northeast corner of the herein described parcel;
- 4) **THENCE**, South 30° 38' 04" East, crossing said 4.626 acre tract, a distance of 5.95 feet to a ½ inch iron rod with blue plastic cap stamped "HALFF ESMT" set for the east corner of the herein described parcel;



- 5) **THENCE**, South 59° 20' 33" West, continuing across said 4.626 acre tract and crossing said 0.0342 acre tract, a distance of 226.03 feet to the **POINT OF BEGINNING** and containing 0.0575 acre (2,506 sq. ft.) of land;

Notes:

1. The basis of bearing is "grid north". All bearings and coordinates shown are based on the Texas State Plane coordinate system, South Central Zone (4204), North American datum of 1983 (NAD 83) 2011 adjustment, epoch 2010.00
2. All coordinates and distances shown are surface and may be converted to grid by dividing the project surface adjustment factor of 1.00017.
3. All horizontal values were derived and verified by GPS (RTK) observation using the TxDot VRS network, TxDot RRP Station Guadalupe_TXSE.
4. All measurements are in US survey feet.
5. A property description of even date was prepared in conjunction with this plat.
6. Abstracting completed July 10, 2024.
7. Field surveys completed August 1, 2024.

Commitment for title insurance prepared by Alamo Title Insurance, GF No. SAT-08-4000082401327, effective date of June 9, 2024, and issued on June 17, 2024.

I hereby certify that this survey was made on the ground of the property shown hereon, under my supervision.

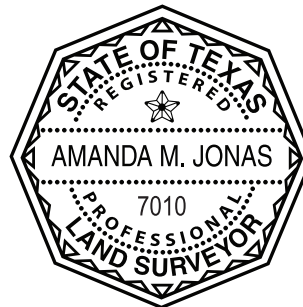
A handwritten signature in blue ink that reads "Amanda Jonas".

Amanda M. Jonas

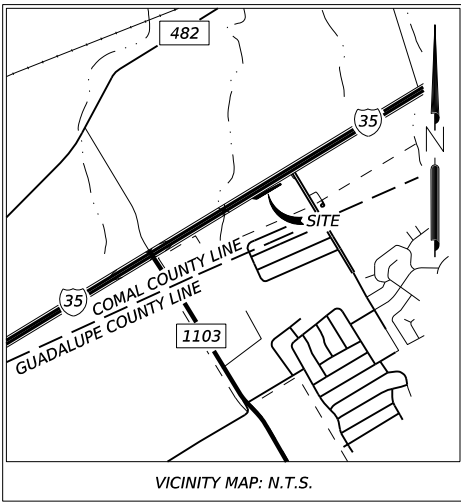
Registered Professional Land Surveyor

Texas No. 7010

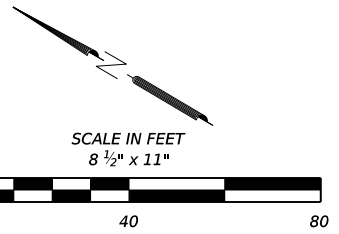
T.B.P.E.L.S. Surveying Firm No. 10194444



"EXHIBIT A"



16' SANITARY SEWER EASEMENT
GUADCO MUNICIPAL UTILITY DISTRICTS
NO. 1 AND NO. 2
VOL. 522, PG. 777
O.P.R.C.C.T.
RECORDED AUGUST 8, 1986



RAFAEL GARZA SURVEY
ABSTRACT NUMBER 175

CALLED 0.1318 ACRE
PARCEL 130
STATE OF TEXAS
DOC. NO. 202106007389
O.P.R.C.C.T.
RECORDED FEBRUARY 02, 2021

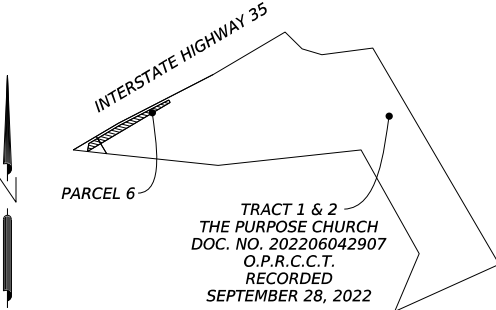
CALLED 4.626 ACRES
TRACT 1
THE PURPOSE CHURCH
DOC. NO. 202206042907
O.P.R.C.C.T.
RECORDED SEPTEMBER 28, 2022

CALLED 80.4996 ACRE
TRACT ONE
NOLLY CARIBBEAN
PROPERTIES, LLC
DOC. NO. 201706029109
O.P.R.C.C.T.
RECORDED JUNE 15, 2017

CALLED 0.0342 ACRE
TRACT 2
THE PURPOSE CHURCH
DOC. NO. 202206042907
O.P.R.C.C.T.
RECORDED SEPTEMBER 28, 2022

CALLED 0.005 ACRE
VARIABLE WIDTH UTILITY EASEMENT
THE CITY OF SCHERTZ, TEXAS
DOC. NO. 201806029104
O.P.R.C.C.T.
RECORDED JULY 26, 2018

CALLED 0.013 ACRE
VARIABLE WIDTH UTILITY EASEMENT
THE CITY OF SCHERTZ, TEXAS
DOC. NO. 202206006619
O.P.R.C.C.T.
RECORDED FEBRUARY 10, 2022



INTERSTATE HIGHWAY 35
VARIABLE WIDTH R.O.W.



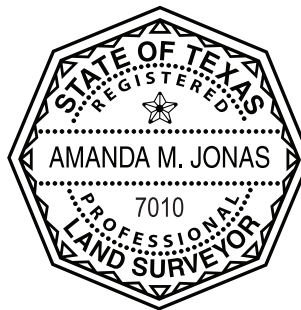
PARENT TRACT INSET
N.T.S.

LEGEND

- EXISTING RIGHT OF WAY
- PROPERTY LINE
- - - EXISTING EASEMENT LINE
- - - HISTORIC RIGHT OF WAY PARCEL LINE
- FOUND 1/2-INCH IRON ROD (UNLESS NOTED)
- SET 1/2-INCH IRON ROD WITH BLUE CAP STAMPED *HALFF ESMT*
- CALCULATED POINT
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF COMMENCEMENT
- R.O.W. RIGHT OF WAY
- O.P.R.C.C.T. OFFICIAL PUBLIC RECORDS, COMAL COUNTY, TEXAS

NOTES:

1. THE BASIS OF BEARING IS "GRID NORTH". ALL BEARINGS AND COORDINATES SHOWN ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983 (NAD 83) 2011 ADJUSTMENT, EPOCH 2010.00
2. ALL COORDINATES AND DISTANCES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING THE PROJECT SURFACE ADJUSTMENT FACTOR OF 1.00017.
3. ALL HORIZONTAL VALUES WERE DERIVED AND VERIFIED BY GPS (RTK) OBSERVATION USING THE TXDOT VRS NETWORK, TXDOT RRP STATION GUADALUPE_TXSE.
4. ALL MEASUREMENTS ARE IN US SURVEY FEET.
5. A PROPERTY DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS PLAT.
6. ABSTRACTING COMPLETED JULY 10, 2024.
7. FIELD SURVEYS COMPLETED AUGUST 1, 2024.



COMMITMENT FOR TITLE INSURANCE PREPARED BY ALAMO TITLE INSURANCE, GF. NO. SAT-0-4000082401327, EFFECTIVE DATE OF JUNE 9, 2024 AND ISSUED ON JUNE 17, 2024

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND OF THE PROPERTY SHOWN HEREON, UNDER MY SUPERVISION

Amanda Jonas 08/08/2024
DATE
AMANDA M. JONAS
REGISTERED PROFESSIONAL
LAND SURVEYOR
TEXAS REGISTRATION NO. 7010

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS



100 NE INTERSTATE 410 LOOP
SUITE 701
SAN ANTONIO, TEXAS 78216
TEL (210) 798-1895
FAX (210) 798-1895
TBPELS FIRM #10029607



4615 Northwest Loop 410
San Antonio, TX 78229
210.615.1110

PARCEL 6

PAGE 3 OF 3

FED. ROAD DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.	
6		IH 35	
STATE	DIST.	COUNTY	
TEXAS	16	COMAL	
C.C.S.J.	0016	05	111
R.C.S.J.	0016	06	115



Issued Date: February 2, 2025

Revised Date: February 6, 2025

County: Guadalupe

AVO: 35005.015

LEGAL DESCRIPTION OF PARCEL 7

Being a 0.0363 acre (1,581 sq. ft.) parcel of land situated in the Robert Martin & JF Walker Survey, Abstract No. 244 and being a portion of Lot 1 of the Weiderstein Ranch Subdivision recorded in Volume 8, Page 784 of the Map and Plat Records of Guadalupe County, Texas and also being a portion of a tract of land described to Mi Red Vines, LLC in a Special Warranty Deed recorded on January 17, 2023 under Document Number 202399001268 of the Official Public Records of Guadalupe County, Texas (O.P.R.G.C.T.); said 0.0363 acre parcel being more particularly described as follows:

COMMENCING at a 3-1/4 inch aluminum cap stamped "TEXAS DEPT OF TRANSPORTATION R.O.W. MONUMENT" found on the existing south right of way (R.O.W.) line of Interstate Highway 35 (variable width R.O.W.) for the northwest corner of said Lot 1 and said Mi Red Vines, LLC tract and the northeast corner of a called 18.761 acre tract described to Schertz Station, LTD in a Warranty Deed recorded on November 17, 2023 under Document Number 202399028270 of the Official Public Records of Guadalupe County, Texas (O.P.R.G.C.T.),

THENCE along a westerly line of said Lot 1 and said Mi Red Vines, LLC tract and east line of said 18.761 acre tract, South 31° 15' 57" East for a distance of 47.20 feet to a point for the **POINT OF BEGINNING** and the northwest corner of the herein described parcel having surface coordinates displayed in U.S. survey feet of N=13,773,595.37, E=2,203,590.91;

- 1) **THENCE** over and across said Lot 1 and said Mi Red Vines, LLC tract, North 41° 56' 23" East for a distance of 75.57 feet to a point for an angle corner of the herein described parcel;
- 2) **THENCE** continuing over and across said Lot 1 and said Mi Red Vines, LLC tract, North 31° 16' 06" West for a distance of 3.14 feet to a point for an angle corner of the herein described parcel;
- 3) **THENCE** continuing over and across said Lot 1 and said Mi Red Vines, LLC tract, North 58° 43' 54" East for a distance of 25.01 feet to a point in the east line of said Lot 1 and said Mi Red Vines, LLC tract and the west line of a called 21.50 acre tract described to Bussey's, LTD. in a Warranty Deed recorded on September 10, 1984 under Volume 717, Page 727 of the Official Public Records of Guadalupe County, Texas for an angle corner of the herein described parcel;

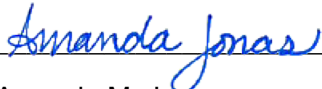
- 4) **THENCE** with the east line of said Lot 1 and said Mi Red Vines, LLC tract and the west line of said 21.50 acre tract, South 31° 15' 57" East (South 31° 15' 57" East – deed call) for a distance of 24.34 feet to a point for an angle corner of the herein described parcel from which a 5/8 inch iron rod found for the southeast corner of said Lot 1 and said Mi Red Vines, LLC tract bears South 31° 15' 57" East at a distance of 1,272.51 feet;
- 5) **THENCE** over and across said Lot 1 and said Mi Red Vines, LLC tract, North 79° 22' 40" West for a distance of 14.65 feet to a point for an angle corner of the herein described parcel;
- 6) **THENCE** continuing over and across said Lot 1 and said Mi Red Vines, LLC tract, South 41° 56' 23" West for a distance of 90.30 feet to a point on a westerly line of said Lot 1 and said Mi Red Vines, LLC tract and the east line of said 18.761 acre tract for an angle corner of the herein described parcel from which a found 5/8 inch iron rod for a northerly angle corner of said Lot 1 and said Mi Red Vines, LLC tract bears South 31° 15' 57" East for a distance of 278.68 feet;
- 7) **THENCE** along the west line of said Lot 1 and said Mi Red Vines, LLC tract and the east line of said 18.761 acre tract, North 31° 16' 12" West for a distance of 15.67' to the **POINT OF BEGINNING** and containing 0.0363 acre (1,581 sq. ft.) of land;

Notes:

1. The basis of bearing is "Grid North". All bearings and coordinates shown are based on the Texas State Plane Coordinate System, South Central Zone (4204), North American Datum of 1983 (NAD 83) 2011 adjustment, EPOCH 2010.00
2. All coordinates and distances shown are surface and may be converted to grid by dividing the project surface adjustment factor of 1.00017.
3. All horizontal values were derived and verified by GPS (RTK) observation using the TxDOT VRS network, TxDOT RRP station guadalupe_txse.
4. All measurements are in us survey feet.
5. A plat of even date was prepared in conjunction with this property description.

Revised Date: February 6, 2025 – Revised corner description.

I hereby certify that this survey was made on the ground of the property shown hereon, under my supervision.

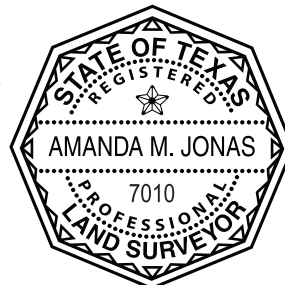


Amanda M. Jonas

Registered Professional Land Surveyor

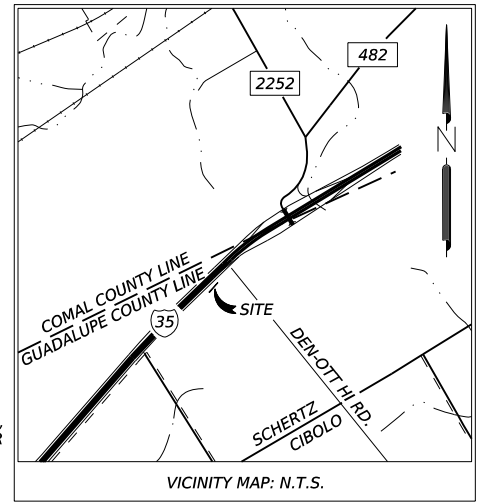
Texas No. 7010

T.B.P.E.L.S. Surveying Firm No. 10194444



"EXHIBIT A"

SCALE IN FEET
8 1/2" x 11"



VICINITY MAP: N.T.S.

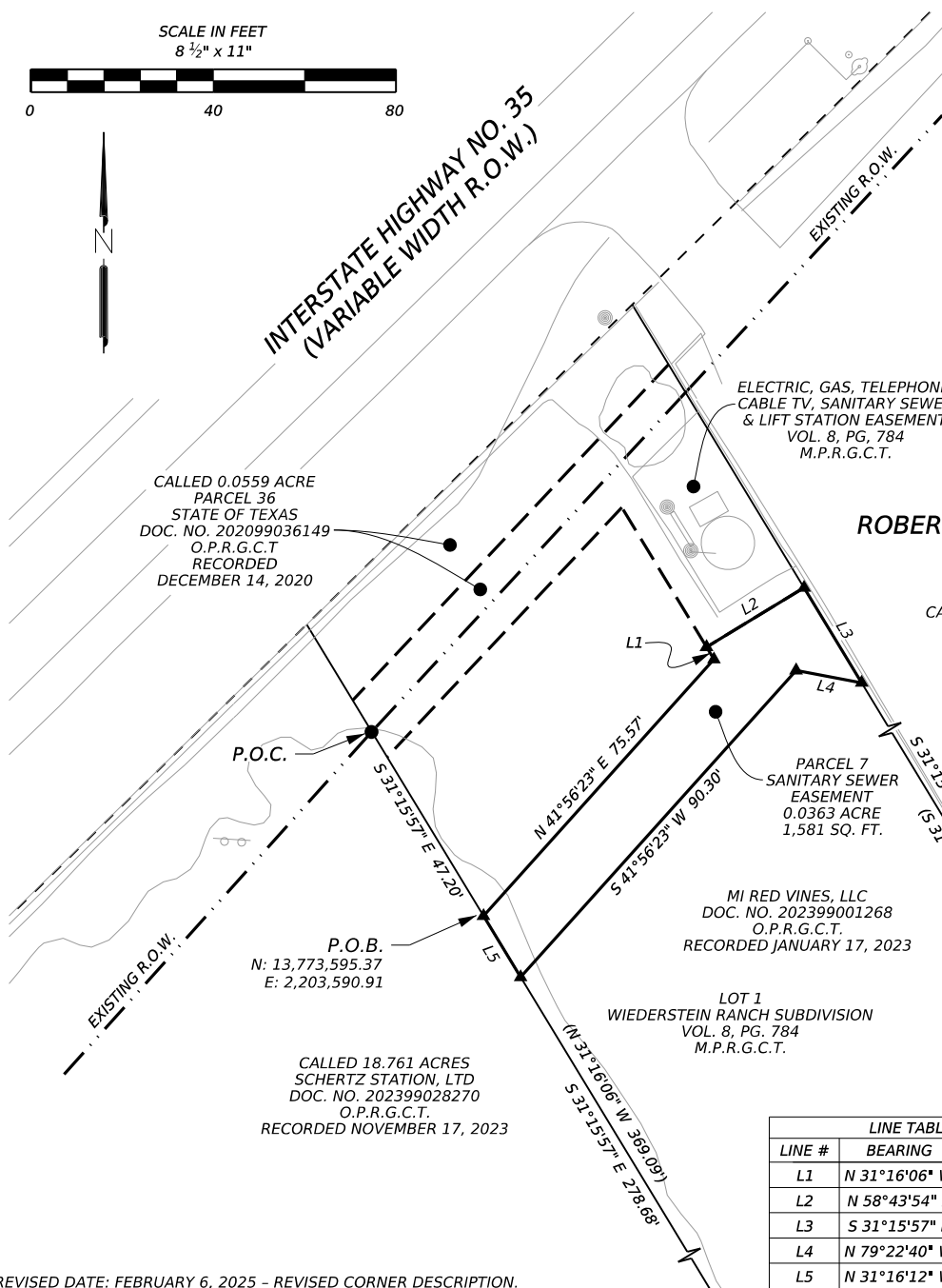
INTERSTATE HIGHWAY NO. 35
(VARIABLE WIDTH R.O.W.)

ELECTRIC, GAS, TELEPHONE,
CABLE TV, SANITARY SEWER
& LIFT STATION EASEMENT
VOL. 8, PG. 784
M.P.R.G.C.T.

CALLED 0.0559 ACRE
PARCEL 36
STATE OF TEXAS
DOC. NO. 202099036149
O.P.R.G.C.T.
RECORDED
DECEMBER 14, 2020

ROBERT MARTIN & JF WALKER SURVEY
ABSTRACT NUMBER 244

CALLED 21.50 ACRE TRACT
BUSSEY'S, LTD.
VOL. 717, PG. 727
O.P.R.G.C.T.
SEPTEMBER 10, 1984



P.O.B.
N: 13,773,595.37
E: 2,203,590.91

CALLED 18.761 ACRES
SCHERTZ STATION, LTD
DOC. NO. 202399028270
O.P.R.G.C.T.
RECORDED NOVEMBER 17, 2023

MI RED VINES, LLC
DOC. NO. 202399001268
O.P.R.G.C.T.
RECORDED JANUARY 17, 2023

LOT 1
WIEDERSTEIN RANCH SUBDIVISION
VOL. 8, PG. 784
M.P.R.G.C.T.

FOUND
5/8-INCH IRON ROD
WITH YELLOW CAP
STAMPED "SPOONER"

MI RED VINES, LLC
DOC. NO. 202399001268
O.P.R.G.C.T.
RECORDED
JANUARY 17, 2023

FOUND
5/8-INCH
IRON ROD

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N 31°16'06" W	3.14'
L2	N 58°43'54" E	25.01'
L3	S 31°15'57" E	24.34'
L4	N 79°22'40" W	14.65'
L5	N 31°16'12" W	15.67'

PARENT TRACT INSET
N.T.S.

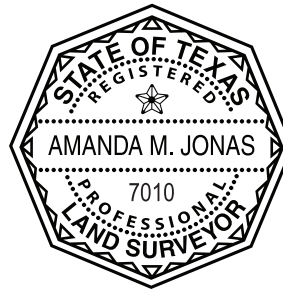
REVISED DATE: FEBRUARY 6, 2025 - REVISED CORNER DESCRIPTION.

LEGEND

- EXISTING RIGHT OF WAY
- PROPERTY LINE
- EXISTING EASEMENT LINE
- HISTORIC RIGHT OF WAY PARCEL LINE
- FOUND 3/4-INCH ALUMINUM CAP STAMPED "TEXAS DEPT OF TRANSPORTATION R.O.W. MONUMENT" (UNLESS NOTED)
- SET 1/2-INCH IRON ROD WITH BLUE CAP STAMPED "HALF ESMT"
- CALCULATED POINT
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF COMMENCEMENT
- R.O.W. RIGHT OF WAY
- M.P.R.G.C.T. MAP AND PLAT RECORDS, GUADALUPE COUNTY, TEXAS
- O.P.R.G.C.T. OFFICAL PUBLIC RECORDS, GUADALUPE COUNTY, TEXAS

- NOTES:
- THE BASIS OF BEARING IS "GRID NORTH". ALL BEARINGS AND COORDINATES SHOWN ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983 (NAD 83) 2011 ADJUSTMENT, EPOCH 2010.00
 - ALL COORDINATES AND DISTANCES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING THE PROJECT SURFACE ADJUSTMENT FACTOR OF 1.00017.
 - ALL HORIZONTAL VALUES WERE DERIVED AND VERIFIED BY GPS (RTK) OBSERVATION USING THE TXDOT VRS NETWORK, TXDOT RRP STATION GUADALUPE_TXSE.
 - ALL MEASUREMENTS ARE IN US SURVEY FEET.
 - A PROPERTY DESCRIPTION OF EVEN DATE WAS PREPARED IN CONJUNCTION WITH THIS PLAT.
 - ABSTRACTING COMPLETED JULY 10, 2024.
 - FIELD SURVEYS COMPLETED JANUARY 24, 2025.

FOUND
5/8-INCH IRON ROD
WITH YELLOW CAP



THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. EASEMENTS OR OTHER MATTERS OF RECORD MAY EXIST WHERE NONE ARE SHOWN.

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND OF THE PROPERTY SHOWN HEREON, UNDER MY SUPERVISION

Amanda Jonas 02/06/2025
DATE
AMANDA M. JONAS
REGISTERED PROFESSIONAL
LAND SURVEYOR
TEXAS REGISTRATION NO. 7010

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS



100 NE INTERSTATE 410 LOOP
SUITE 701
SAN ANTONIO, TEXAS 78216
TEL (210) 798-1895
FAX (210) 798-1898
TBPELS FIRM #10029607



4615 Northwest Loop 410
San Antonio, TX 78229
210.615.1110

PARCEL 7

PAGE 3 OF 3

FED. ROAD DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.	
6		IH 35	
STATE	DIST.	COUNTY	
TEXAS	15	COMAL	
C.C.S.J.	0016	05	111
R.C.S.J.	0016	06	115