ORDINANCE NO.

AN ORDINANCE APPROVING A WATER AND WASTEWATER UTILITY RELOCATION STANDARD UTILITY AGREEMENT ("AGREEMENT") BY AND BETWEEN THE CITY OF DENTON ("CITY") AND THE TEXAS DEPARTMENT OF TRANSPORTATION ("TXDOT"), FOR (I) THE REIMBURSEMENT OF ELIGIBLE COSTS INCURRED IN THE ADJUSTMENT. REMOVAL, AND RELOCATION OF CITY FACILITIES OF BOTH WATER AND WASTEWATER UTILITIES ALONG FM 1515 FROM BONNIE BRAE ST TO MASCH BRANCH ROAD MORE SPECIFICALLY CALLED TXDOT PROJECTS CONSTRUCTION ROW CSJ#0191-01-012 CSJ# 0191-01-011 AND ("UTILITY RELOCATIONS PROJECT"), WITHIN THE COUNTY AND **CITY** OF DENTON, TEXAS: AUTHORIZING THE CITY MANAGER TO EXECUTE AND DELIVER THE STANDARD UTILITY AGREEMENT NO.: U00023607 AND (II) THE QUITCLAIM OF A PORTION OR INTERESTS; THE UNDERLYING LAND **PROVIDING** FOR REIMBURSEMENT OF FUNDS IN AN AMOUNT NOT TO EXCEED \$23,567.77 FOR WATER AND WASTEWATER UTILITY RELOCATION EFFORTS: PROVIDING FOR THE EXPENDITURE OF FUNDS; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, TxDOT 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 for the FM 1515 from Bonnie Brae St to Masch Branch Road ("Utility Relocation Project"); and

WHEREAS, TxDOT has expanded their right-of-way along FM 1515's corridor within the Denton city limits in anticipation of TxDOT's Widening project with a current project letting schedule of early 2026; and

WHEREAS, the proposed Utility Relocation Project will necessitate the adjustment, removal, and/or relocation of certain facilities of the City as indicated in the following statement of work:

- 1) Water Line: Install approximately 6,823 LF of 16" PVC, 83 LF of 12" PVC, and 116 LF of 8" PVC.
- 2) Wastewater: Install approximately 244 LF of 15" and 100 LF of 12"; and

WHEREAS, the City of Denton is responsible for relocating the City's utilities currently located within the recently acquired TxDOT right-of-way; and

WHEREAS, in an effort to meet TxDOT's anticipated roadway construction schedule, the City's Utility Relocation Project will relocate both water and wastewater utilities conflicts out of TxDOT's proposed roadway alignment between Bonnie Brea and Masch Branch Road; and

WHEREAS, TxDOT 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; and

WHEREAS, TxDOT, upon receipt of evidence it deems sufficient, acknowledges the City'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; and

WHEREAS, TxDOT 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; and

WHEREAS, The City of Denton is responsible for the minimum required water main relocations which should be fully reimbursable in accordance with TxDOT ROW Utilities Manual, and Texas Administrative Code Title 43, Chapter 21; and

WHEREAS, TxDOT, will request that the City to abandon, relinquish, and quitclaim various easement property interests owned by the City ("Abandonment Tracts"), as the Abandonment Tracts encumber an area of TxDOT's property and the area of the Abandonment Tracts is generally described in Exhibit "B"; and

WHEREAS, the City shall quitclaim the Abandonment Tracts upon completion of relocation and removal of the existing; and

WHEREAS, the City Council having considered the importance of the project to the citizens of Denton and finding that it is in the public's health and safety interest, is of the opinion that it should approve the Agreements; NOW, THEREFORE,

THE COUNCIL OF THE CITY OF DENTON HEREBY ORDAINS:

<u>SECTION 1.</u> The recitals contained in the preamble of this ordinance are hereby incorporated into the body of this ordinance are true and correct.

SECTION 2. The City Manager is authorized to expend funds in an amount not to exceed Five million, Four Hundred Ninety Thousand, Seven Hundred Forty-Seven Dollars and 05/100 (\$5,419,747.05) for the FM 1515 from Bonnie Brae to Masch Branch Road Utility Relocation Project in the City and County of Denton.

SECTION 3. The City Manager, or designee, is hereby authorized to execute on behalf of the City the Water and Wastewater Standard Utility Agreement No. U00023607, a copy of which is attached hereto as Exhibits "A" and made a part hereof for all purposes.

SECTION 4. The City Manager, or designee, is hereby authorized to execute any and all quitclaim deeds required to quitclaim the Abandonment Tracts as depicted in Exhibit B. The City shall quitclaim the Abandonment Tracts upon completion of relocation and removal of the existing utilities to the new easements acquired in relation to the Utility Relocation Project and approved for voluntary acquisition or eminent domain by future City Council action as required by City policy.

<u>SECTION 5.</u> The City Manager, or designee, is further authorized to carry out all obligations and duties of the City as set forth in the Agreement, including but not limited to the expenditure of funds.

<u>SECTION 6.</u> That this ordinance shall become effective immediately upon its passage and approval.

The motion to approve this ordinand	ce was	made b	by		and
seconded by: the following vote []:				was passed and a	approved by
the following vote []:					
	<u>Aye</u>		<u>Nay</u>	<u>Abstain</u>	Absent
Gerard Hudspeth, Mayor:		_			
Vicki Byrd, District 1:		_			
Brian Beck, District 2:		_			
Suzi Rumohr, District 3:		_			
Joe Holland, District 4:		_			
Brandon Chase McGee, At Large Place 5:					
Jill Jester, At Large Place 6:		_			
PASSED AND APPROVED this the	;	_day of _		, 20	25.
		GERA	RD HUDS	SPETH, MAYOR	<u> </u>
ATTEST: INGRID REX, INTERIM CITY SECRETA	RY				
By:					
APPROVED AS TO LEGAL FORM: MACK REINWAND, CITY ATTORNEY					
By: _ Marcella Lunn					



Standard Utility Agreement

Form ROW-U-35 (Rev. 03/24) Page 1

U Number: N/A Utility ID: U00023607

District: Dallas ROW Project ID (TxC): R00006053 ROW CSJ: 1951-01-012

Construction CSJ: 1951-01-011

Highway Project Letting Date: 12/2026 RTL

County: Denton Highway: FM 1515 From: Masch Branch Rd

To: Bonnie Brea St

This Agreement by and between the State of Texas, acting by and through the Texas Transportation Commission, ("State"), and City of Denton, ("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: CSJ 011 Water Line: Install approximately 6,823 LF of 16" PVC, 83 LF of 12" PVC, and 116 LF of 8" PVC. CSJ 011 Wastewater Line: Install approximately 244 LF of 15" and 100 LF of 12"; 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.

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

Initial	Date	Initial	Date
	TxDOT	Utili	ty

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 noncompliant 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 \$N/A 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 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:

Initial	Date	Initial	Date
	TxDOT	Utilit	У

Form ROW-U-35 (Rev. 03/24) Page 3

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	 Initial	Date
	TxDOT	Util	itv

$\begin{array}{ll} Form & ROW\text{-}U\text{-}35 \end{array} \text{(Rev. 03/24)} \\ \text{Page 4} \end{array}$

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

UTILIT	(EXECUTION RECOMMENDED:
Utility:	City of Denton Name of Utility	Director of TP&D (or designee), Dallas District
Ву:	Authorized Signature	THE STATE OF TEXAS
T:41a.	Sara Hensley Print or Type Name	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
Title: Date:	City Manager	heretofore approved and authorized by the Texas Transportation Commission.
		By: District Engineer (or designee)
		Date:

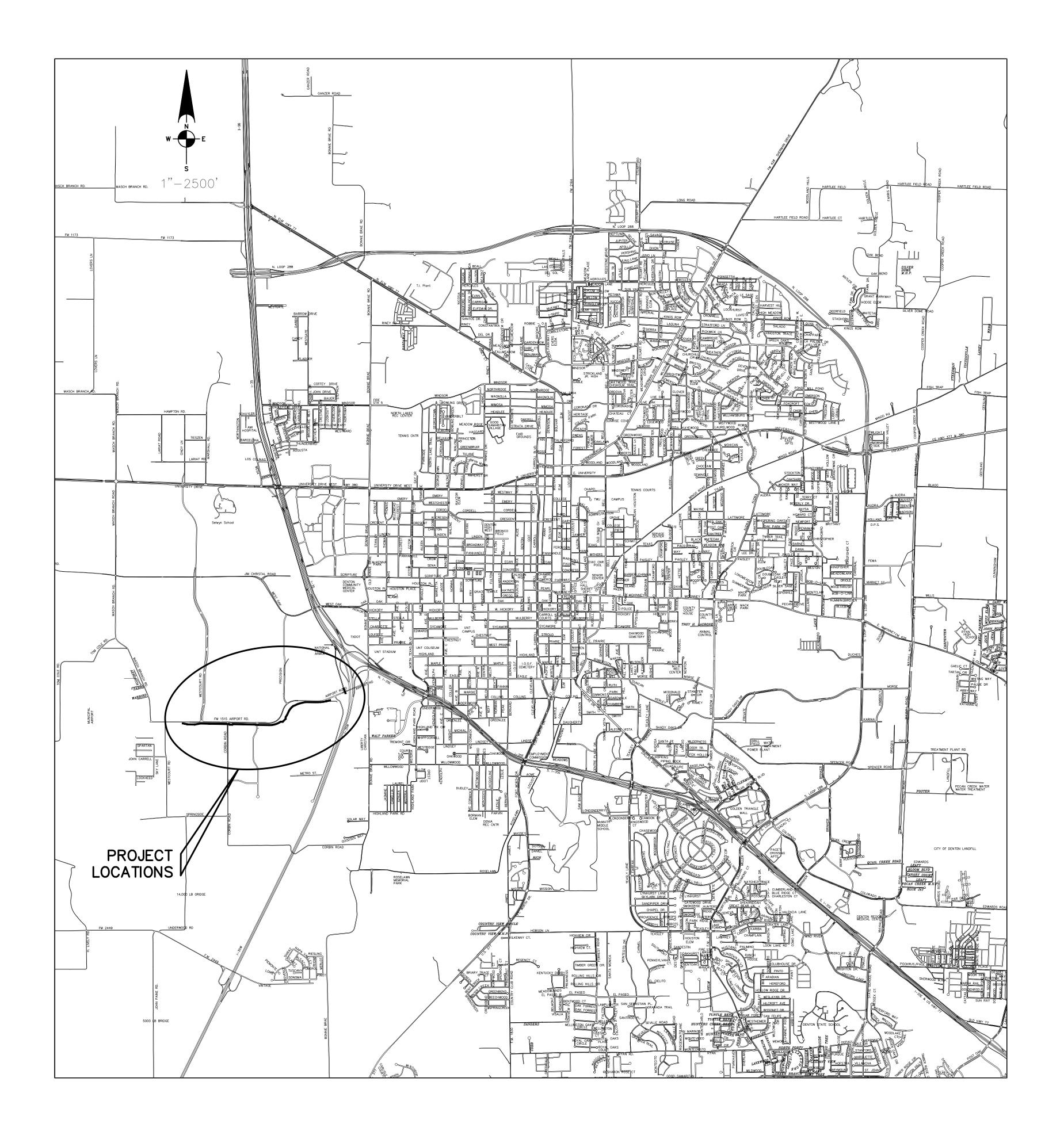
Initial	Date	Initial	Date
	TxDOT	Util	ity

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	Initial	Date
	TxDOT	Utilit	у



FM 1515 UTILITY RELOCATIONS

UTILITIES RELOCATIONS WATER, SANITARY SEWER

PROJECT # 630511523.

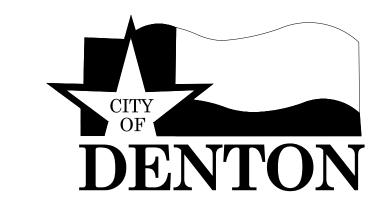
CSJ: 1951-01-011

RCSJ: 1951-01-012

U00023607

NOVEMBER, 2024

CITY of DENTON



ENGINEERING SERVICES

SHEET LIST

- COVER SHEET
- 2 GENERAL NOTES
- 3 QUANTITY SUMMARY
- 4 EROSION CONTROL NARRATIVE
- 5-11 EROSION CONTROL SHEETS
- 12-13 TRAFFIC CONTROL NARRATIVE
- 14 PROJECT LAYOUT SHEETS & CONTROL POINTS
- 15-21 16" MAIN WATERLINE PLAN AND PROFILE SHEETS
- 22-23 SANITARY SEWER CROSSING PLAN AND PROFILE SHEETS
- 24-28 WATERLINE CROSSING PLAN AND PROFILE SHEETS
- 29-37 STANDARD DETAILS

* THE DETAILS SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

JAMES E. WILDER , P.E.

DATE: 11/27/2024

PROJECT NOTES:

GENERAL CONSTRUCTION NOTES:

- 1. GOVERNING SPECIFICATIONS REGARDING CONSTRUCTION AND MATERIALS FOR THIS PROJECT ARE CONTAINED WITHIN THE
- 2. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS, ALL NOTES, AND THE SPECIFICATIONS CONTAINED WITHIN THE BID DOCUMENTS. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY OMISSIONS, DISCREPANCIES, OR DIMENSIONAL ERRORS PRIOR TO BEGINNING OR FABRICATING ANY WORK, OTHERWISE THE CORRECTIONS (AND ASSOCIATED COST) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE LOCATION OF ALL UNDERGROUND PIPING, FRANCHISE UTILITIES AND OTHER UNDERGROUND STRUCTURES AND UTILITIES ARE BASED ON ORIGINAL CONSTRUCTION PLANS AND LIMITED FIELD SURVEY. THE CITY OF DENTON ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL OF THESE FACILITIES OR TO SHOW THEM IN THEIR EXACT LOCATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL AFFECTED UTILITIES, WHETHER OR NOT THEY ARE SHOWN ON THE PLANS, TO VERIFY THE MATERIALS, LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OR PURCHASE OF MATERIAL AND TO PROVIDE ALL NECESSARY PIPE, FITTINGS AND APPURTENANCES TO MAKE ALL CONNECTIONS AS SHOWN IN THESE PLANS. SUCH VERIFICATION SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 5. THE CONTRACTOR SHALL SAWCUT EXISTING CURB AND GUTTER, PAVEMENT, DRIVEWAYS, ALLEYS AND SIDEWALKS AT AREAS WHERE PAVEMENT OR CONCRETE IS TO BE REMOVED. SAWCUTS WILL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR THE RESPECTIVE ITEM.
- 6. THE CONTRACTOR SHALL PRESERVE AND PROTECT OR REMOVE AND REPLACE (WITH PRIOR APPROVAL OF AFFECTED PROPERTY OWNER) ANY TREES, SHRUBS, HEDGES, GUARDRAILS, FENCES, RETAINING WALLS, LANDSCAPING, BUILDINGS, WALKS, MAILBOXES, SPRINKLERS, ETC. IN OR NEAR PROPOSED CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED ON THE PLANS FOR REMOVAL AND / OR REPLACEMENT. USE ORANGE CONSTRUCTION FENCE TO PROTECT TREES/SHRUBS TO REMAIN IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. THE CONTRACTOR SHALL MAKE NECESSARY PROVISION FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, GAS MAINS, TELEPHONE CABLES, SANITARY SEWER LINES, ELECTRIC CABLES, DRAINAGE PIPES, UTILITY SERVICES, ALL OTHER UTILITIES, AND THE STRUCTURES BOTH ABOVE AND BELOW GROUND DURING CONSTRUCTION. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES DONE TO SUCH EXISTING FACILITIES AS A RESULT OF THE CONTRACTOR'S OPERATIONS.
- 8. NO TREES MAY BE REMOVED OUTSIDE THE PERMANENT EASEMENT WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE. THE CONTRACT AMOUNT WILL BE REDUCED BY \$5,000 FOR EACH TREE WHICH IS REMOVED WHERE
- 9. THE PROPOSED IMPROVEMENTS AT TIMES WILL BE CONSTRUCTED CLOSE TO OTHER EXISTING UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW GROUND. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, GAS MAINS, TELEPHONE CABLES, SANITARY SEWER LINES, WATER LINES, TV CABLES, DRAINAGE PIPES, UTILITY SERVICES, AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW GROUND DURING CONSTRUCTION. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES DONE TO SUCH EXISTING FACILITIES AS A RESULT OF THE CONTRACTOR'S OPERATIONS.
- 10.NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAYS WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL, AND HE SHALL REMOVE THE MATERIAL AT HIS OWN COST IF THE CITY SO DIRECTS.
- 11. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER TO VERIFY CONDITION OF EXISTING IRRIGATION STRUCTURES. ALL IRRIGATION STRUCTURES AFFECTED BY CONSTRUCTION WILL BE REPAIRED TO A CONDITION AS GOOD OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION WITH NO SEPARATE PAY ITEM.
- 12.ALL IMPROVEMENTS NOT SCHEDULED FOR REPLACEMENT DURING CONSTRUCTION WHICH ARE DAMAGED OR DESTROYED BY THE CONTRACTOR SHALL BE RESTORED TO EQUAL OR BETTER CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF DENTON OR THE AFFECTED PROPERTY OWNER.
- CONDITION OR BETTER. UNPAVED AREAS SHALL BE RESTORED WITH A SEASONALLY APPROPRIATE SEED MIX. IN AREAS WHERE SEEDING FAILS TO REESTABLISH VEGETATION, SOLID SOD SHALL BE USED. CONTRACTOR IS EXPECTED TO MINIMIZE SOD REPLACEMENT BY LIMITING IMPACT TO EXISTING SODDED AREA.

13.THE CONTRACTOR SHALL RESTORE ALL UNPAVED VEGETATED AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL

- 14.THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND GENERAL PUBLIC AND THE SAFETY OF PUBLIC AND PRIVATE PROPERTY.
- 15. CONSTRUCTION STAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CONSIDERED SUBSIDIARY TO THE BASE BID FOR THE PROJECT.
- 16. THE CONTRACTOR SHALL PRESERVE AND PROTECT OR REMOVE AND REPLACE ALL EXISTING ROADSIDE SIGNS IN OR NEAR THE PROPOSED CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED ON THE PLANS FOR REMOVAL AND/OR REPLACEMENT. THIS WORK WILL BE CONSIDERED INCIDENTAL AND NOT A SEPARATE PAY ITEM.
- 17.THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL CONCRETE CURB AND GUTTER IN OR NEAR THE PROPOSED CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED ON THE PLANS FOR REMOVAL AND/OR REPLACEMENT. 18.THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING SIDEWALK APPROACHES IN OR NEAR THE PROPOSED
- CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED ON THE PLANS FOR REMOVAL AND/OR REPLACEMENT.

19.PREPARING ROW/REMOVAL OF EXISTING ITEMS TO BE DONE ONLY IN AREAS WHERE WORK IS OCCURRING.

- 20. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS—BUILT PLANS IDENTIFYING ALL DEVIATIONS OR VARIATIONS OF ORIGINAL PLANS. THIS WORK WILL BE CONSIDERED INCIDENTAL AND NOT A SEPARATE PAY ITEM.
- 21. THE CONTRACTOR IS TO ENSURE THAT ALL CONSTRUCTION ACTIVITY IS CONTAINED WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS.
- 22. THE CONTRACTOR'S PERSONNEL SHALL WEAR IDENTIFYING CLOTHING OR HATS AT ALL TIMES.
- 23. THE CITY HAS ACQUIRED PERMANENT AND TEMPORARY CONSTRUCTION EASEMENTS AS SHOWN ON THE DRAWINGS. THE CONTRACTOR MAY ACQUIRE ADDITIONAL TEMPORARY CONSTRUCTION EASEMENTS AT HIS OWN COST, IF HE SO CHOOSES. IF THE CONTRACTOR ACQUIRES ADDITIONAL TEMPORARY EASEMENTS, HE SHALL PROVIDE COPIES OF THE WRITTEN AGREEMENTS TO THE CITY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES AS A RESULT OF THE USE OF ADDITIONAL TEMPORARY EASEMENTS OR WORK CONDUCTED ON PRIVATE PROPERTY AND/OR OUTSIDE THE PROJECTS EXTENTS.
- 24. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE TERMS AND CONDITIONS SET FORTH IN TEMPORARY CONSTRUCTION EASEMENTS. UNLESS GRANTED BY THE PROPERTY OWNER, INGRESS AND EGRESS TO THE WORK SITE SHALL BE ONLY THROUGH THE TEMPORARY CONSTRUCTION EASEMENTS, EXISTING UTILITY EASEMENTS OR R.O.W. IN THE AREAS WHERE NO CONSTRUCTION EASEMENTS ARE AVAILABLE, CONTRACTOR SHALL LIMIT ACTIVITIES TO WITHIN THE EXISTING UTILITY EASEMENT OR ROW.
- 25. THE CONTRACTOR SHALL RECONSTRUCT IN PLACE AND WITH LIKE MATERIALS ANY DRIVES, ROADS, SIDEWALKS, IRRIGATION SYSTEMS, CULVERT PIPES, DRAINAGE DITCHES, FENCES, UTILITY SERVICES, OR OTHER FACILITIES WHICH ARE REMOVED OR DAMAGED DURING CONSTRUCTION. UTILITY SERVICES WHICH ARE CUT OR DAMAGED SHALL BE IMMEDIATELY
- 26. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RELOCATION OR TEMPORARY SUPPORT OF POWER POLES. THIS IS TRUE EVEN IF THE PLANS DO NOT SHOW THE POLES IN QUESTION.
- 27. EXCAVATION WITHIN 5 FEET OF AN EXISTING ELECTRIC POLE WILL REQUIRE POLE BRACING AND TRENCH SHORING. CONTACT DENTON MUNICIPAL ELECTRIC TO REQUEST POLE BRACING (940-349-7509). LEAD TIME FOR BRACING VARIES SO CONTRACTOR IS ADVISED TO CONTACT DME AT EARLIEST TIME POSSIBLE.
- 28. CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF TPDES GENERAL PERMIT NO. TXR150000 PART V.C AND PART VI WHICH GOVERN THE APPROPRIATE DISPOSAL PROCEDURES FOR CONCRETE TRUCK WASH OUT ON A CONSTRUCTION SITE.

UTILITY NOTES:

- 1. THE LOCATION OF ALL WATER, SANITARY SEWER, TELEPHONE, FIBER—OPTIC, GAS, ELECTRIC AND CABLE TELEVISION UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE AND HAVE BEEN DERIVED FROM PUBLIC RECORD DOCUMENTS BURIED UTILITY LINES AND INFRASTRUCTURE MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. ACCURATE LOCATIONS AND SIZES OF BURIED UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AFTER CONSULTATION WITH THE RESPECTIVE UTILITY OWNERS OR PROPERTY OWNERS.
- 2. THE CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSINGS.
- 3. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND AND OVERHEAD FACILITIES AND BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THEM. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AT ONCE OF ANY CONFLICTS WITH PROPOSED CONSTRUCTION.
- 4. THE CONTRACTOR SHALL CONTACT 811 AND THE UTILITY COMPANIES, AS WELL AS ANY OTHER UTILITY COMPANY WITH UTILITY LINES ENCOUNTERED IN THE FIELD, WHETHER THE UTILITY LINES ARE SHOWN IN THE PLANS OR NOT, AT LEAST 48 HOURS PRIOR TO EXCAVATING.
- 5. THERE MAY HAVE BEEN UTILITY IMPROVEMENTS WITHIN THE PROJECT LIMITS AFTER SURVEY WAS COMPLETED. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF THERE ARE EXISTING UTILITY CONFLICTS NOT SHOWN ON THE PLANS.

EROSION CONTROL:

- 1. THE CONTRACTOR SHALL PREPARE, IMPLEMENT, AND MAINTAIN AN EROSION CONTROL PLAN AND THE ASSOCIATED EROSION CONTROL MEASURES IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THESE PLANS.
- 2. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION THE CONTRACTOR SHALL RESTORE ALL AFFECTED AREAS TO ORIGINAL CONDITION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY CLEAN STREETS AND CORRECT EROSION CONTROLS ON SITE TO PREVENT ADDITIONAL RELEASES OF MUD OR DELETERIOUS MATERIALS ONTO PUBLIC ROADWAYS OR PRIVATE PROPERTY.

HAULING EQUIPMENT:

- 1. THE USE OF RUBBER-TIRED EQUIPMENT WILL BE REQUIRED FOR MOVING DIRT OR OTHER MATERIALS ALONG OR ACROSS PAVED SURFACES. WHERE THE CONTRACTOR DESIRES TO MOVE ANY EQUIPMENT NOT LICENSED FOR OPERATION ON PUBLIC HIGHWAYS, ON OR ACROSS PAVEMENT, THEY SHALL PROTECT THE PAVEMENT FROM DAMAGE AS DIRECTED/APPROVED BY THE PROJECT MANAGER.
- 2. THROUGHOUT CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL BE REQUIRED TO CONDUCT THEIR HAULING OPERATIONS IN A MANNER SUCH THAT VEHICLES WILL NOT HAUL OVER PREVIOUSLY RECOMPACTED SUBGRADE OR COMPACTED BASE MATERIAL EXCEPT IN SHORT SECTIONS FOR DUMPING MANIPULATIONS.

WATER AND SANITARY SEWER NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER AND SEWER CONNECTIONS IN WORKING ORDER AT ALL TIMES. IN NO CASE SHALL SERVICES BE ALLOWED TO REMAIN OUT OF SERVICE OVERNIGHT.
- 2. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGES TO BUSINESSES, HOMES, OR BASEMENTS FROM BACKUP WHICH MAY RESULT DURING THE INSTALLATION OF NEW SEWER PIPE. THE CONTRACTOR WILL BE ALLOWED TO OPEN CLEAN OUTS WHERE AVAILABLE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CLEAN-UP ASSOCIATED WITH OPENING CLEAN OUTS AND FOR REPLACEMENT OF REMOVED CAPS.
- 3. THE CONTRACTOR SHALL FURNISH AND INSTALL PIPE DETECTION TAPE IN ACCORDANCE CITY OF DENTON SPECIFICATION 33 05 97.
- 4. VERTICAL OR HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATERLINES AT CROSSINGS MUST ADHERE TO TCEQ GUIDELINES FOUND IN TAC 290 OR 217.
- 5. VERTICAL OR HORIZONTAL SEPARATION BETWEEN SANITARY SEWER OR WATER AND STORM DRAIN LINES MUST BE AT A MINIMUM OF 2' UNLESS SPECIFIED IN THE PLANS.
- 6. THE CONTRACTOR SHALL PREPARE AND PRESENT A PLAN TO THE CITY ON HOW TIE-INS BETWEEN EXISTING LATERALS AND THE NEW SANITARY SEWER SHALL BE COORDINATED. NO EXISTING LATERAL LINES WILL BE ALLOWED TO REMAIN UNCONNECTED TO THE COLLECTION SYSTEM OVERNIGHT. TEMPORARY TIE-IN WORK SHALL BE SUBSIDIARY TO THE COST OF PIPE INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY.
- 7. THE CONTRACTOR SHALL PREPARE AND PRESENT A PLAN ON HOW TO SUPPORT WATER, STORM DRAIN OR OTHER LINES THAT SPAN THE CONSTRUCTION TRENCH PRIOR TO BEGINNING ANY WORK OF THE PROJECT.
- 8. SERVICE LINE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS TO VERIFY ACTUAL LOCATION IN FIELD PRIOR TO INSTALLING NEW SERVICE LINES. NO PAYMENT SHALL BE MADE FOR REINSTALLATION OF SERVICE LINES DUE TO CONTRACTOR OVERSIGHT OF THIS NOTE.
- 9. EXISTING SERVICES MAY NOT MATCH TO SIZE OF NEW SERVICE LINES. CONTRACTOR SHALL SUPPLY CONNECTORS/ADAPTORS TO MAKE SERVICE SIZE TRANSITIONS AT NO ADDITIONAL COST.
- 10.EXISTING IN-SERVICE MANHOLES ARE TO BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO IN-SERVICE MANHOLES CAUSED BY THE CONTRACTOR SHALL BE REMEDIED BY THE CONTRACTOR AT NO COST TO THE CITY.
- 11. MAXIMUM ALLOWABLE JOINT DEFLECTION IS 1° FOR WATER PIPE.
- 12.EXISTING AND PROPOSED WATER, SEWER, OR STORM DRAINAGE APPURTENANCES (I.E, VALVE STACKS, MANHOLE FRAMES, ETC.) LOCATED IN PROPOSED STREET RECONSTRUCTION ZONES SHALL BE ADJUSTED TO MATCH THE GRADE OF STREET. THESE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL WORK AND NOT PAID FOR SEPARATELY.

TRAFFIC CONTROL AND SAFETY:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND GENERAL PUBLIC AND THE SAFETY OF PUBLIC AND PRIVATE PROPERTY. 2. THE CONTRACTOR WILL PROVIDE, CONSTRUCT, AND MAINTAIN BARRICADES AND SIGNS IN
- ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. 3. THE CONTRACTOR SHALL KEEP THE ROADWAY CLEAN AND FREE OF DIRT OR OTHER
- MATERIALS. THE PROJECT MANAGER HAS THE RIGHT TO HALT CONSTRUCTION ACTIVITY UNTIL THE ROADWAY IS CLEANED TO THE SATISFACTION OF THE PROJECT MANAGER 4. TRAFFIC MUST BE HANDLED THROUGHOUT THE PROJECT DURING CONSTRUCTION. THE
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE PASSAGE FOR VEHICULAR AND PEDESTRIAN TRAFFIC WITH MINIMAL INCONVENIENCE TO THE PUBLIC, AS SHOWN IN THE PLANS OR AS DIRECTED/APPROVED BY THE PROJECT MANAGER.
- 5. DO NOT STORE ANY CONSTRUCTION MATERIAL OR EQUIPMENT AT ANY LOCATION THAT WILL CONSTITUTE A HAZARD AND WILL ENDANGER TRAFFIC.
- 6. THE CONTRACTOR WILL PROVIDE THREE (3) WEEKS ADVANCE NOTIFICATION TO THE CITY OF IMPENDING/UPCOMING CLOSURES FOR ALL TEMPORARY AND/OR PERMANENT VEHICULAR, BIKE OR PEDESTRIAN LANE, RAMP, CONNECTOR, FRONTAGE, SHOULDER, ETC. CLOSURES OR DETOURS.
- 7. TEMPORARY DRAINAGE IS THE RESPONSIBILITY OF THE CONTRACTOR. 8. AT NO TIME SHALL TWO CONSECUTIVE INTERSECTING ROADWAYS BE CLOSED DURING CONSTRUCTION. CONTRACTOR SHALL LIMIT CLOSURE OF THE INTERSECTIONS TO MINIMIZE INCONVENIENCE TO PUBLIC.
- 9. COVER PERMANENT SIGNS WITH APPROPRIATE MATERIAL IF NOT USED. THIS IS SUBSIDIARY TO THE TRAFFIC CONTROL BID ITEM(S).
- 10.ADVANCE WARNING SIGNS AND LANE CLOSURES MUST BE MOVED UP PERIODICALLY IN ORDER TO KEEP UP WITH THE MOVING WORK ZONE. AS WORK PROGRESSES, THE LANE CLOSURE SIGNING AND APPROPRIATE BARRICADES MUST FOLLOW APPLICABLE STANDARDS.
- 11. PROVIDE ALL-WEATHER ACCESS FOR LANDOWNERS AT EXISTING ROADS AND DRIVES AT ALL TIMES. PROPERTIES WHERE ACCESS TO EXISTING ROADS AND DRIVES IS INTERRUPTED MUST HAVE MULTIPLE INGRESS/EGRESS POINTS AVAILABLE OR ALTERNATE ACCESS MUST BE PROVIDED BY CONTRACTOR. ALL PROPERTIES OCCUPIED THAT WILL BE DENIED ACCESS TO THEIR DRIVEWAYS SHALL BE NOTIFIED BY THE CONTRACTOR TWO WORKING DAYS PRIOR TO THE CLOSURE OF THEIR ACCESS.
- 12.THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO THE CITY FOR APPROVAL OF ALL AREAS TO BE USED FOR STAGING, MOBILIZATION, EQUIPMENT, AND MATERIAL STORAGE AND GENERAL PROJECT CONSTRUCTION MANAGEMENT. REQUESTS SHALL BE SUBMITTED TO THE CITY AT LEAST FIVE (5) DAYS PRIOR TO NOTICE TO PROCEED.
- 13.THE CONTRACTOR SHALL PREPARE, IMPLEMENT AND MAINTAIN A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THESE PLANS.
- 14.ALL BARRICADES, WARNING SIGNS, LIGHT DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE INSTALLATION SHOWN IN THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS CURRENTLY AMENDED, PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
- 15.THE CONTRACTOR SHALL INSTALL METAL PLATES OVER OPEN TRENCHES, UNCOVERED MANHOLES OR OPEN INLETS ADJACENT TO TRAFFIC OVERNIGHT OR WHEN NO WORK IS BEING PERFORMED FOR MULTIPLE DAYS
- 16.THE CONTRACTOR SHALL PROVIDE PROTECTIVE FENCING OR BARRIERS AROUND OPEN TRENCHES, UNCOVERED MANHOLES OR OPEN INLETS LOCATED OUTSIDE OF VEHICULAR TRAFFIC AREAS WHEN NO WORK IS OCCURRING OR OVERNIGHT.
- 17.FOLLOW OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) REGULATIONS AND WORK A SAFE DISTANCE FROM ALL POWER LINES. WHENEVER WORK IS TO BE PERFORMED NEAR OVERHEAD LINES, OSHA REQUIRES THAT WORKMEN AND ANY EQUIPMENT OR TOOLS BEING OPERATED OR HANDLED BE KEPT A SAFE DISTANCE FROM POWER LINES. OSHA ALSO REQUIRES THAT THE POWER LINES SHALL EITHER BE DE-ENERGIZED AND GROUNDED OR OTHER PROTECTIVE MEASURES SHALL BE TAKEN BEFORE WORK IS STARTED. OSHA HAS PRESCRIBED CERTAIN DISTANCES THAT WORKMEN, TOOLS, AND EQUIPMENT MUST BE KEPT FROM OVERHEAD LINES. 10 FEET IS THE DISTANCE FOR POWER LINES OF 50,000 VOLTS OR LESS. 11 FEET IS THE DISTANCE FOR POWER LINES OF 138,000 VOLTS.

FINAL CLEAN UP:

1. UPON COMPLETION OF THE WORK AND BEFORE FINAL ACCEPTANCE AND FINAL PAYMENT IS MADE. THE CONTRACTOR SHALL CLEAR AND REMOVE FROM THE SITE ALL SURPLUS AND DISCARDED MATERIALS AND DEBRIS OF EVERY KIND AND LEAVE THE ENTIRE PROJECT IN A SMOOTH, NEAT AND SIGHTLY CONDITION.

UTILITY COMPANIES:

ATMOS (LOCAL-GAS) 106 N. BRADSHAW DENTON, TX 76205 (940) 380-7470

ATMOS ENERGY 142 N. FM 730 BOYD, TX 76023 (940) 433-8902 ATTN: OMAR CAMPOS

CHARTER CABLE 15100 TRINITY BLVD. FORT WORTH, TX 76155

(817) 298-3635

7701 S. STEMMONS CORINTH, TX 76210 1460 ROUNDTABLE (940) 321-7800 DALLAS, TX 76247 ATTN: JODY PADRON ATTN: ERIC WILLIAMS

CITY OF DENTON—COMMUNICATIONS GRANDE COMMUNICATIONS 500 TITTLE DR. SUITE 400 LEWISVILLE, TX 75056 (940) 270-7016 ATTN: CHRIS LANGSTON

> 2094 MCGEE LEWISVILLE, TX 75077 (972) 318-0264

EXPLORER/CITGO PIPELINE CO. 6846 S. CANTON SUITE 300 TULSA, OK 74136 (918) 493-5172

TEXAS 811 (800) 344-8377

CHANCE GIPSON

* THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES

(940) 349-7172

(940) 349-7509

(940) 349-7150

2624 W. PRAIRIE

(940) 349-1414

DENTON, TX 76201

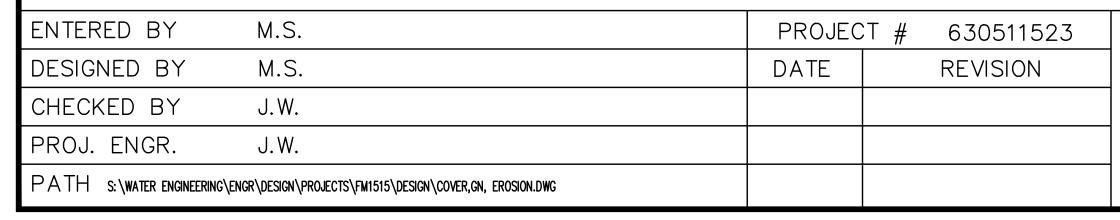
ATTN: DOUG BREON

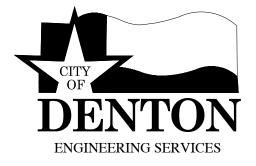
CITY OF DENTON-ELECTRIC

EMERGENCY: (940) 349-8400

EMERGENCY: (940) 349-8400

CITY OF DENTON-WATER UTILITIES





FM 1515 UTILITY RELOCATIONS COVER AND DETAILS

DATE NOV. 2024

SHEET No. 2 of 37

VER 1"= NTS

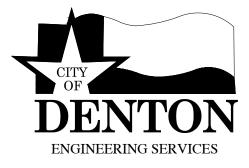
QUANTITY SUMMARY:

Spec. Section No.	Description	UOM	Total QTY	SHT 13	SHT 14	SHT 15	SHT 16	SHT 17	SHT 18	SHT 19	SHT 20	SHT 21	SHT 22	SHT 23	SHT 24	SHT 25	SHT 26
02 41 14	Remove Water Valve	EA	10	2	1	2	1		1	2		1					
02 41 14	Remove Hydrant, lead line and valve	EA	10	2	2	1	2	1	2								
33 05 05	Excavation Protection	LF	7953	1000	965	1022	1033	1000	1000	1024	312	174	28	10	256	62	67
33 14 14	HDPE Water Main (8")	LF	115											10		38	67
33 14 14	HDPE Water Main (12")	LF	83												83		
35 14 14	HDPE Water Main (16")	LF	6825	970	950	1000	1000	893	960	1024			28				
33 14 11	PVC Water Main (8")	LF	45	30	15												
33 14 11	PVC Water Main (12")	LF	55			22	33										
33 05 15	HDPE Water Main in Casing (8")	LF	414											109		119	186
33 05 15	HDPE Water Main in Casing (12")	LF	256												256		
33 05 15	HDPE Water Main in Casing (16")	LF	291	30				107	40				114				
33 05 64	DDC vault	EA	1	1													
TXDOT 7216	Insertion Valve (8")	EA	2														2
33 14 17	Water Service Connection (2")	EA	2	1	1												
33 14 25	City Performed Tapping Sleeve and Valve Connection (12" x 12")	EA	1			1											
33 14 20	Gate Valve (8")	EA	3		1									1		1	
33 14 20	Gate Valve (12")	EA	3			1	1								1		
33 14 20	Gate Valve (16")	EA	12	3		2	1	2	2	1			1				
33 14 25	Connection to Existing Main (8")	EA	6	1	1									1		1	2
33 14 25	Connection to Existing Main (12")	EA	2				1								1		
33 14 25	Connection to Existing Main (16")	EA	2	1									1				
33 14 40	Fire Hydrant	EA	8	2	1	1	1	1	1	1							
33 31 14	Sanitary Sewer Gravity Main (12")	LF	101									101					
33 31 14	Sanitary Sewer Gravity Main (15")	LF	176								176						
33 05 15	Sanitary Sewer Gravity Main in Casing (12")	LF	251									251					
33 05 15	Sanitary Sewer Gravity Main in Casing (15")	LF	244								244						
33 05 07	Steel Casing by Open Cut (24")	LF	283					107	40		136						
33 05 07	Steel Casing by Bore (24")	LF	252	30							108		114				
33 05 07	Steel Casing by Open Cut (20")	LF	73									73					
33 05 07	Steel Casing by Bore (20")	LF	178									178					
33 05 07	Steel Casing by Open Cut (18")	LF	173												173		
33 05 07	Steel Casing by Bore (18")	LF	83												83		
33 05 07	Steel Casing by Open Cut (12")	LF	24													24	
33 05 07	Steel Casing by Bore (12")	LF	390											109		95	186
33 05 61; 33 05 62	Concrete Manhole (5' ID) (0'-6' Deep)	EA	4								3	1					
33 05 76	Fiberglass Manhole (5' ID)	EA	2									2					
30 05 61; 33 05 62	Extra Concrete Manhole (5' ID)	VF	23								15	8					
33 05 76	Extra Fiberglass Manhole (5' ID)	VF	34									34					
02 41 14	Remove Utility Manhole	EA	4								3	1					
32 01 29	Concrete Pavement Repair	SY	60				27		18	15							
32 01 17	Asphalt Pavement Repair	SY	28			28											
32 93 00	Seeding	SY	17674	2222	2144	2271	2296	2222	2222	2276	693	387	62	22	569	138	149
32 01 29	Concrete Flume Repair	SY	9			9											
33 05 61; 33 05 62	External Drop for Manhole	EA	1								1						

NOTE:

THESE QUANTITIES ARE FOR REFERENCE ONLY. THE OFFICIAL BID QUANTITIES ARE CONTAINED IN SECTION 00 42 44 OF THE PROJECT MANUAL.

ENTERED BY M.S.	PROJEC	CT # 630511523
DESIGNED BY M.S.	DATE	REVISION
CHECKED BY J.W.		
PROJ. ENGR. J.W.		
PATH s:\water engineering\engr\design\projects\fm1515\design\cover,gn, erosion.dwg		



FM 1515 UTILITY RELOCATIONS

COVER AND DETAILS

SHEET No.

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SCALE

OR 1"= NTS

EROSION CONTROL PLAN

THE CONTRACTOR IS RESPONSIBLE FOR CREATING THE EROSION CONTROL PLAN FOR THE PROJECT. THE PLAN SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL (SEE SECTION 01 57 13 AND 31 25 14) AND THE EROSION CONTROL PLAN NARRATIVE SHEETS. THE EROSION CONTROL PLAN SHALL BE REVIEWED AND APPROVED BY THE CITY OF DENTON WATERSHED DEPARTMENT PRIOR TO IMPLEMENTATION. THE FOLLOWING NOTES SHALL SUPERCEDE ANY CONTRARY REQUIREMENTS IN THE PROJECT MANUAL.

- 1. ENSURE EROSION CONTROL PLAN INCLUDES SEDIMENT CONTROL AT LIMITS OF CONSTRUCTION OR AREAS ADJACENT TO CONSTRUCTION THAT CAN RECEIVE DISCHARGE FROM AREA OF PROPOSED WORK.
- 2. FINAL STABILIZATION SHALL BE COMPLETE PRIOR TO TERMINATION OF
 COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT. FINAL
 STABILIZATION MEASURES SHALL BE A UNIFORM PERENNIAL VEGETATIVE
 COVER WITH A DENSITY OF AT LEAST 70 PERCENT OF THE NATIVE
 BACKGROUND VEGETATIVE COVER FOR ALL UNPAVED AREAS NOT COVERED BY
 STRUCTURES.
- 3. AS A CONDITION OF APPROVAL, APPLICANTS CONDUCTING LAND DISTURBING ACTIVITIES WILL COMPLETE THE ONLINE CONSTRUCTION SITE SURVEY. THIS SURVEY CAN BE FOUND AT WWW.CITYOFDENTON.COM/WATERSHED, TAB TO SURVEY IS AT TOP RIGHT OF SCREEN.
- 4. SITES HAVING GREATER THAN 1 ACRE OF LAND DISTURBANCE REQUIRES A
 STORM WATER POLLUTION PREVENTION PLAN THAT SHALL ADDRESS TO THE
 REQUIREMENTS OF SECTION 01 57 13. PROVIDE A COPY OF THE STORMWATER
 POLLUTION PREVENTION PLAN TO THE WATERSHED PROTECTION DIVISION FOR
 REVIEW, WATERSHED@CITYOFDENTON.COM
- 5. CONSTRUCTION SITE NOTICE MUST BE POSTED AT CONSTRUCTION SITE PRIOR TO INITIAL INSPECTION OF STORMWATER CONTROLS.
- 6. PROJECT SITE OPERATOR MUST CONTACT WATERSHED PROTECTION DIVISION
 FOR INITIAL INSPECTION PRIOR TO PERMIT ISSUANCE TO ENSURE COMPLIANCE
 WITH STORMWATER REGULATIONS AND PROPER INSTALLATION OF
 APPROPRIATE BMPS.
- CONTACT: ZACHARY.ROWEN@CITYOFDENTON.COM (940) 349-8203 OR JENNIFER.ROVEZZI@CITYOFDENTON.COM (940) 349-7141
- 7. FOR PROJECT AREAS LESS THAN 1 ACRE, THE EROSION CONTROL PLAN
 PREPARATION SHALL BE PAID FOR AS EROSION CONTROL PLAN. FOR PROJECTS
 GREATER THAN 1 ACRE, EROSION CONTROL PLAN PREPARATION SHALL BE A
 SUBSIDIARY ITEM TO THE SWPPP BID ITEM.
- 8. REGARDLESS OF THE CONSTRUCTION SITE SIZE, INSTALLATION AND
 MAINTENANCE OF EROSION CONTROL MEASURES SHALL BE PAID FOR UNDER
 THE SWPPP DEVICE INSTALLATION BID ITEM AND REMOVAL OF EROSION
 CONTROL MEASURES SHALL BE PAID FOR UNDER THE SWPPP DEVICE REMOVAL
 BID ITEM.
- 9. IGNORE REFERENCE TO NCTCOG SPECIFICATIONS IN THE EROSION CONTROL STANDARD DETAILS. SECTION 31 25 14 OF PROJECT MANUAL CONTAINS THE SPECIFICATIONS GOVERNING THE DETAILS.

SITE DESCRIPTION

TOTAL PROJECT AREA (ACRES): _2.42 ACRES POST-CONSTRUCTION CHANGE IN RUNOFF POTENTIAL:	FM 1515 UTILIT	TY RELOCATION WESTERN EDGE OF CITY OF DENTON
TOTAL PROJECT AREA (ACRES): _2.42 ACRES POST-CONSTRUCTION CHANGE IN RUNOFF POTENTIAL:	CONTACT AND	PHONE NO.: JOETTA DAILEY 940-349-7153
TOTAL PROJECT AREA (ACRES): _2.42 ACRES POST-CONSTRUCTION CHANGE IN RUNOFF POTENTIAL: NEGLIGIBLE EXISTING CONDITION OF SOIL, VEGETATIVE COVER: WELL ESTABLISHED SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION COVER. DESCRIPTION OF WATER DISCHARGE NOT ASSOCIATED WITH CONSTRUCTION: NONE NAME OF RECEIVING WATERS:HICKORY CREEK MAIN CHANNEL AND DRY FORK 1 BRANCH IDENTIFY STORM WATER DISCHARGE POINTS: EXISTING STREAMS IN HICKORY CREEK BASIN, EXISTING STORESTORESTORESTORESTORESTORESTORESTORE		
TOTAL PROJECT AREA (ACRES): 2.42 ACRES POST-CONSTRUCTION CHANGE IN RUNOFF POTENTIAL: NEGLIGIBLE EXISTING CONDITION OF SOIL, VEGETATIVE COVER: EXISTING CONDITION OF SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION COVER. DESCRIPTION OF WATER DISCHARGE NOT ASSOCIATED WITH CONSTRUCTION: NONE NAME OF RECEIVING WATERS: HICKORY CREEK MAIN CHANNEL AND DRY FORK 1 BRANCH IDENTIFY STORM WATER DISCHARGE POINTS: EXISTING STREAMS IN HICKORY CREEK BASIN, EXISTING STO INLETS ON FM 1515	MAJOR SOIL DIS	STRIBUTION ACTIVITIES:
EXISTING CONDITION OF SOIL, VEGETATIVE COVER: WELL ESTABLISHED SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION COVER. DESCRIPTION OF WATER DISCHARGE NOT ASSOCIATED WITH CONSTRUCTION: NONE NAME OF RECEIVING WATERS: HICKORY CREEK MAIN CHANNEL AND DRY FORK 1 BRANCH IDENTIFY STORM WATER DISCHARGE POINTS: EXISTING STREAMS IN HICKORY CREEK BASIN, EXISTING STO INLETS ON FM 1515	UTILITY	EXCAVATION
EXISTING CONDITION OF SOIL, VEGETATIVE COVER: WELL ESTABLISHED SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION COVER. DESCRIPTION OF WATER DISCHARGE NOT ASSOCIATED WITH CONSTRUCTION: NONE NAME OF RECEIVING WATERS: HICKORY CREEK MAIN CHANNEL AND DRY FORK 1 BRANCH IDENTIFY STORM WATER DISCHARGE POINTS: EXISTING STREAMS IN HICKORY CREEK BASIN, EXISTING STO INLETS ON FM 1515	TOTAL PROJEC	Γ AREA (ACRES): 2.42 ACRES
ESTABLISHED SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION COVER. DESCRIPTION OF WATER DISCHARGE NOT ASSOCIATED WITH CONSTRUCTION: NONE NAME OF RECEIVING WATERS: HICKORY CREEK MAIN CHANNEL AND DRY FORK 1 BRANCH IDENTIFY STORM WATER DISCHARGE POINTS: EXISTING STREAMS IN HICKORY CREEK BASIN, EXISTING STO INLETS ON FM 1515	POST-CONSTRU	
NAME OF RECEIVING WATERS: HICKORY CREEK MAIN CHANNEL AND DRY FORK 1 BRANCH IDENTIFY STORM WATER DISCHARGE POINTS: EXISTING STREAMS IN HICKORY CREEK BASIN, EXISTING STO INLETS ON FM 1515		
AND DRY FORK 1 BRANCH IDENTIFY STORM WATER DISCHARGE POINTS: EXISTING STREAMS IN HICKORY CREEK BASIN, EXISTING STO INLETS ON FM 1515	ESTABLISHED S COVER.	SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION
INLETS ON FM 1515	ESTABLISHED S COVER. DESCRIPTION C	SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION OF WATER DISCHARGE NOT ASSOCIATED WITH
A DECEDIDATION AND TIME EDAME FOR THE INCTALL ATION OF	ESTABLISHED S COVER. DESCRIPTION C CONSTRUCTION NAME OF RECE	SOIL: IN PARKWAY BEHIND CURB 95% VEGITATION OF WATER DISCHARGE NOT ASSOCIATED WITH N: NONE IVING WATERS: HICKORY CREEK MAIN CHANNEL
STABILIZATION PRACTICES IN CONJUNCTION WITH CONSTRICTION	ESTABLISHED S COVER. DESCRIPTION C CONSTRUCTION NAME OF RECE AND DRY IDENTIFY STOR EXISTING	OF WATER DISCHARGE NOT ASSOCIATED WITH N:NONE IVING WATERS:HICKORY CREEK MAIN CHANNEL Y FORK 1 BRANCH RM WATER DISCHARGE POINTS: G STREAMS IN HICKORY CREEK BASIN, EXISTING STO

EROSION AND SEDIMENTATION CONTROL

	TABILIZATION PRACTICES:
HY	YDROMULCHING.
TI	EMPORARY SEEDING.
X PI	ERMANENT PLANTING, SODDING OR SEEDING.
M	ULCHING.
	DIL RETENTION BLANKET
	JFFER ZONES.
	RESERVATION OF NATURAL RESOURCES.
TEMPORA	ED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAS CEASED ARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ES ARE SCHEDULED WITHIN 21.
STRUC	CTURAL PRACTICES:
X SI	LT FENCES
HA	AY BALES
XEF	ROSION CONTROL LOGS
X R	OCK BERMS
X DI	VERSION, INTERCEPTOR OR PERIMETER DIKES
DI	VERSION, INTERCEPTOR OR PERIMETERS SWALES.
DI	IVERSION, DIKE AND SWALE COMBINATION.
PA	AVED FLUMES.
XR0	OCK BEDDING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE).
XTI	MBER MATTING AT CONSTRUCTION EXITS (STABILIZED ENTRANCE)
CH	HANNEL LINERS.
SE	EDIMENT TRAPS
SE	EDIMENT BASINS
	FORM INLET SEDIMENT TRAP
	TONE OUTLET SEDIMENT
	JRBS AND GUTTERS
	FORM SEWERS
	ELOCITY CONTROL STRUCTURES
	EOTEXTILES. IF SILT FENCES PROVE TO BE INADEQUATE EROSION CONTROL
MEASURE	E, THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRIANGULAR TS DIKES AT NO ADDITIONAL COST.
SEQUENC ACTIVITI	EE OF STORMWATER MANAGEMENT AND CONSTRUCTION ES:
BM	1P INSTALLATION, EXCAVATION, UTILITY INSTALLATION, BMP REMOVAL.
INSPECTI	IANCE PROCEDURES FOR CONTROL MEASURES USED:BMP ONS WILL BE PERFORMED WEEKLY AND WITHIN 24-HOURS OF THE END NCH OR GREATER STORM EVENT.
	VATER MANAGEMENT: STORM WATER WILL BE CONVEYED BY ID SHEET FLOW TO THE NEAREST INLET OR STORM LOCATION.
	ENT EROSION CONTROL MEASURES: <u>SODDING OR EROSION CONTROL</u>
BLANKET	

OTHER EROSION AND SEDIMENTATION CONTROL

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF REPAIR 1S NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGEWAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTION STORM SEWER INLETS.

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR EVERY 14 DAYS AS WELL AS AFTER EVERY ½" OR MORE OF RAIL (RECORDED ON A NON FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER INSPECTION BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE CORRECTED BEFORE THE NEXT SCHEDULED INSPECTION.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING)

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS; PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, GASOLINE, MOTOR OIL, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION OR CONCRETE CURING COMPOUND AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS AND MEETS REPORTING REQUIREMENTS, THE NATION RESPONSE CENTER SHOULD BE CONTACTED AT 800-424-8802, AND ANY REQUIRED CHANGES MADE TO SWPPP. IN THE EVENT OF A LIFE THREATENING SPILL THE DENTON FIRE DEPARTMENT SHOULD BE NOTIFIED AS WELL AS THE APPROPRIATE CITY INSPECTORS.

SANITARY WASTE RESPONSIBILITY	Y OF CONTRACTOR.
OFFSITE EXCAVATION SOURCE LOCATION:	NONE
OFFSITE FILL SOURCE LOCATION:	NONE
OFFSITE VEHICLE TRACKING:	
X HAUL ROADS DAMPED FOR DUST CO	ONTROL
X LOADED HAUL TRUCKS TO BE COVE	RED WITH TARPAULIN
X EXCESS DIRT ON ROAD TO BE REMO	OVED DAILY
X STABILIZED CONSTRUCTION ENTRA	ANCE
OTHERS:	
CERTIFICATION THAT SITE DISTURBANCES LISTED ENDANGERED SPECIES AND THEIR	•

WHAT METHOD IS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS?

NOT APPLICABLE

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FM 1515 UTILITY RELOCATIONS

EROSION CONTROL 1

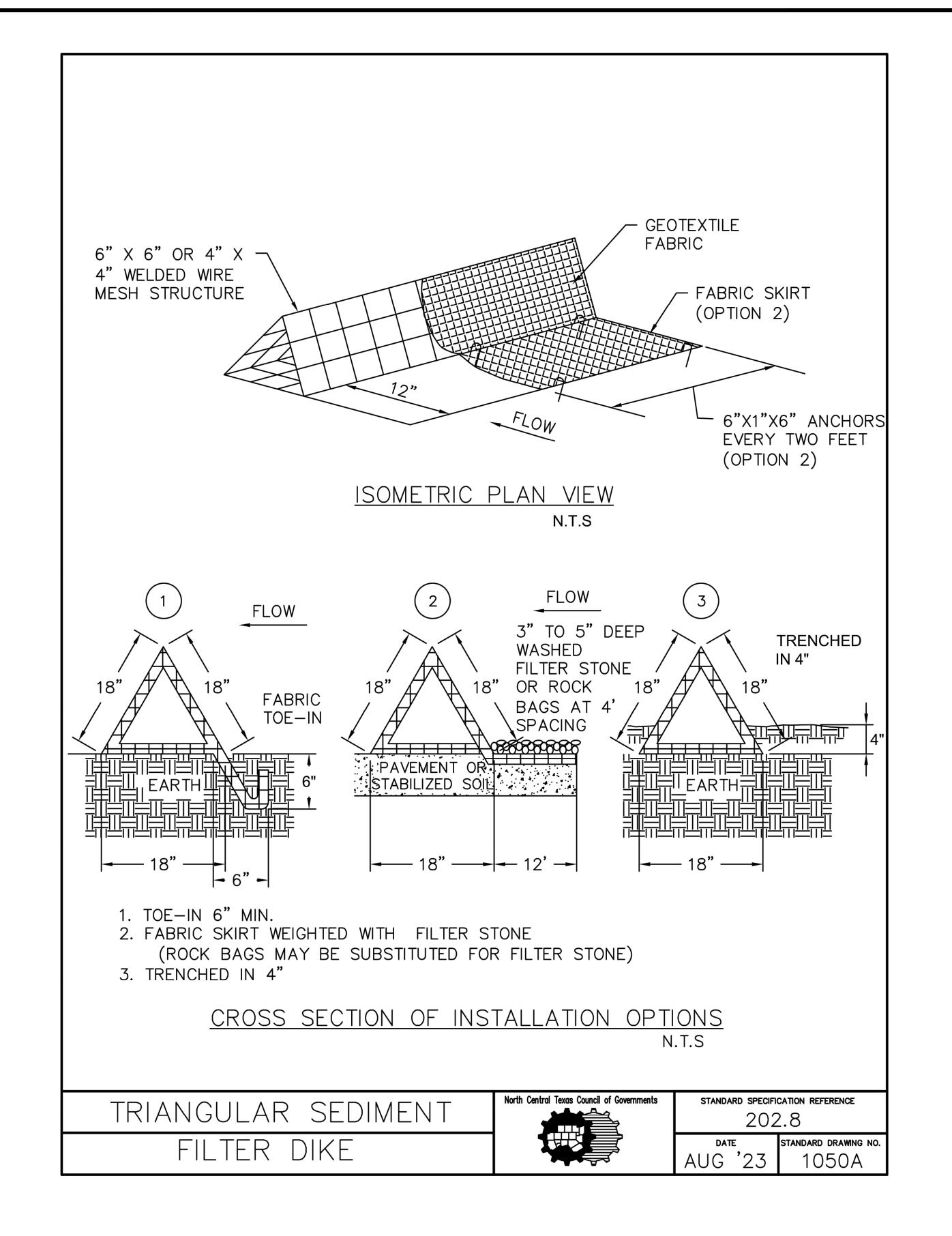
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SHEET No. 4 of 37

No.

SCALE



TRIANGULAR SEDIMENT FILTER DIKE GENERAL NOTES:

- 1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
- 2. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE, AND FABRIC SHALL BE OVERLAPPED A MINIMUM OF 12".
- 3. THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF TYPE 'A' RIP RAP, OR TOED-IN 6" WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED TO A DEPTH OF 4 INCHES.
- 4. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 6-INCH WIRE STAPLES ON 2-FOOT CENTERS ON BOTH EDGES AND SKIRTS.
- 5. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 6" TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
- 6. THE DIKE STRUCTURE SHALL BE W2.9-6" X 6" OR 4" X 4" WELDED WIRE MESH, 18" ON A SIDE.
- 7. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
- 8. THE FILTER DIKE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
- 9. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES APPROXIMATELY 6-INCHES IN DEPTH. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

TRIANGULAR SEDIMENT FILTER DIKE GENERAL NOTES

STANDARD SPECIFICATION REFERENCE 202.8

STANDARD DRAWING NO.

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FM 1515 UTILITY RELOCATIONS

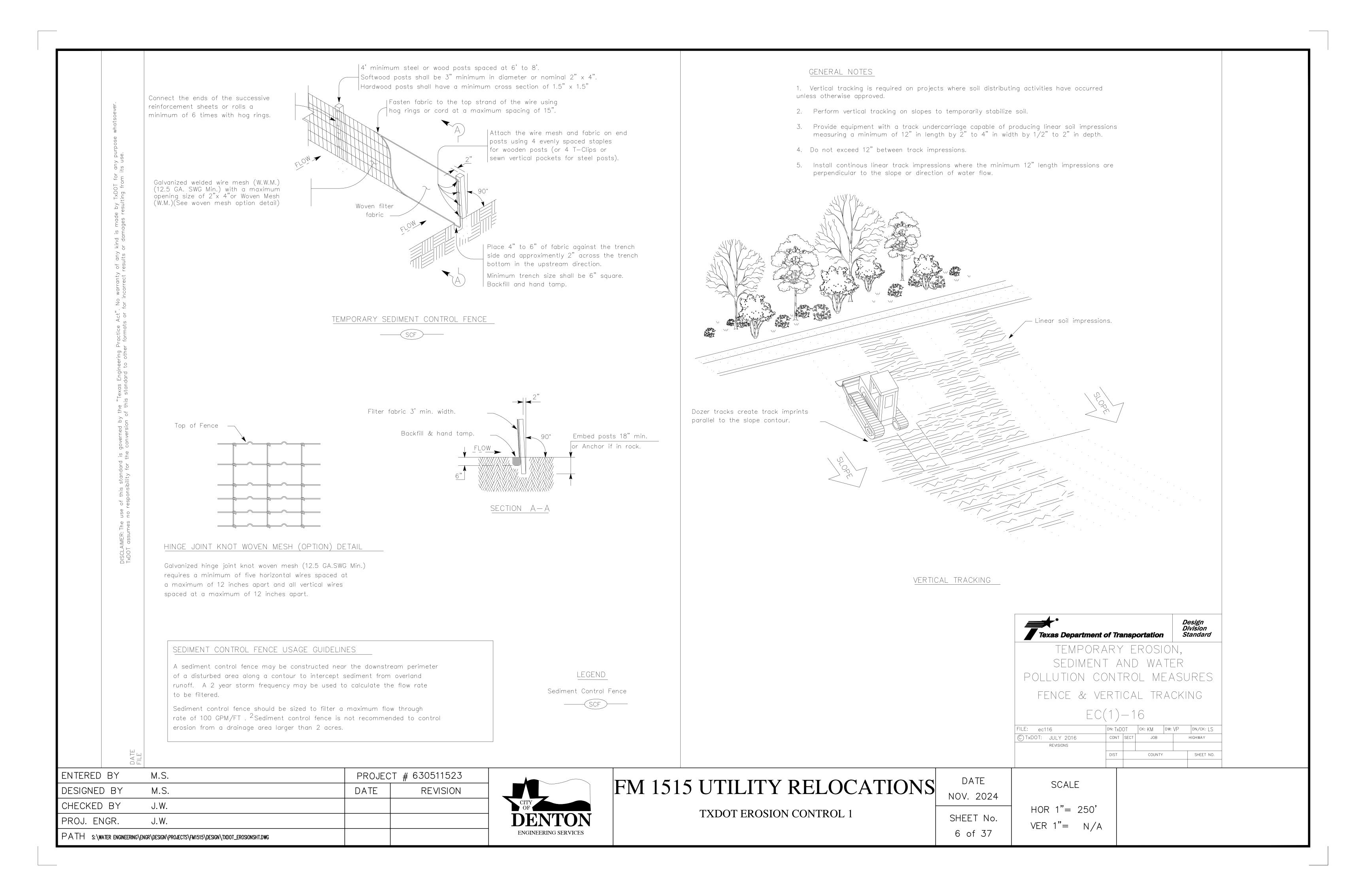
EROSION CONTROL 2

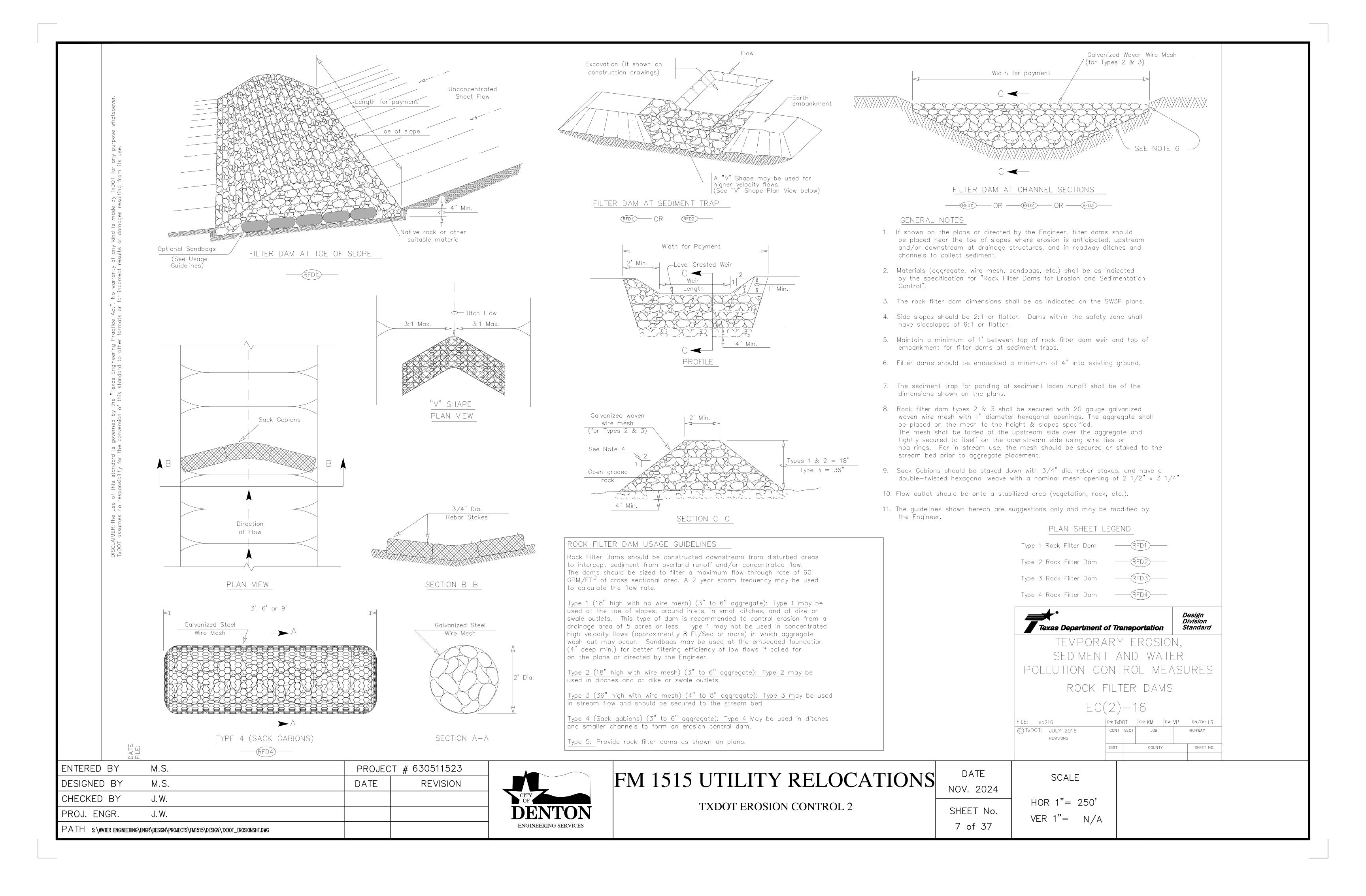
NOV. 2024 SHEET No. 5 of 37

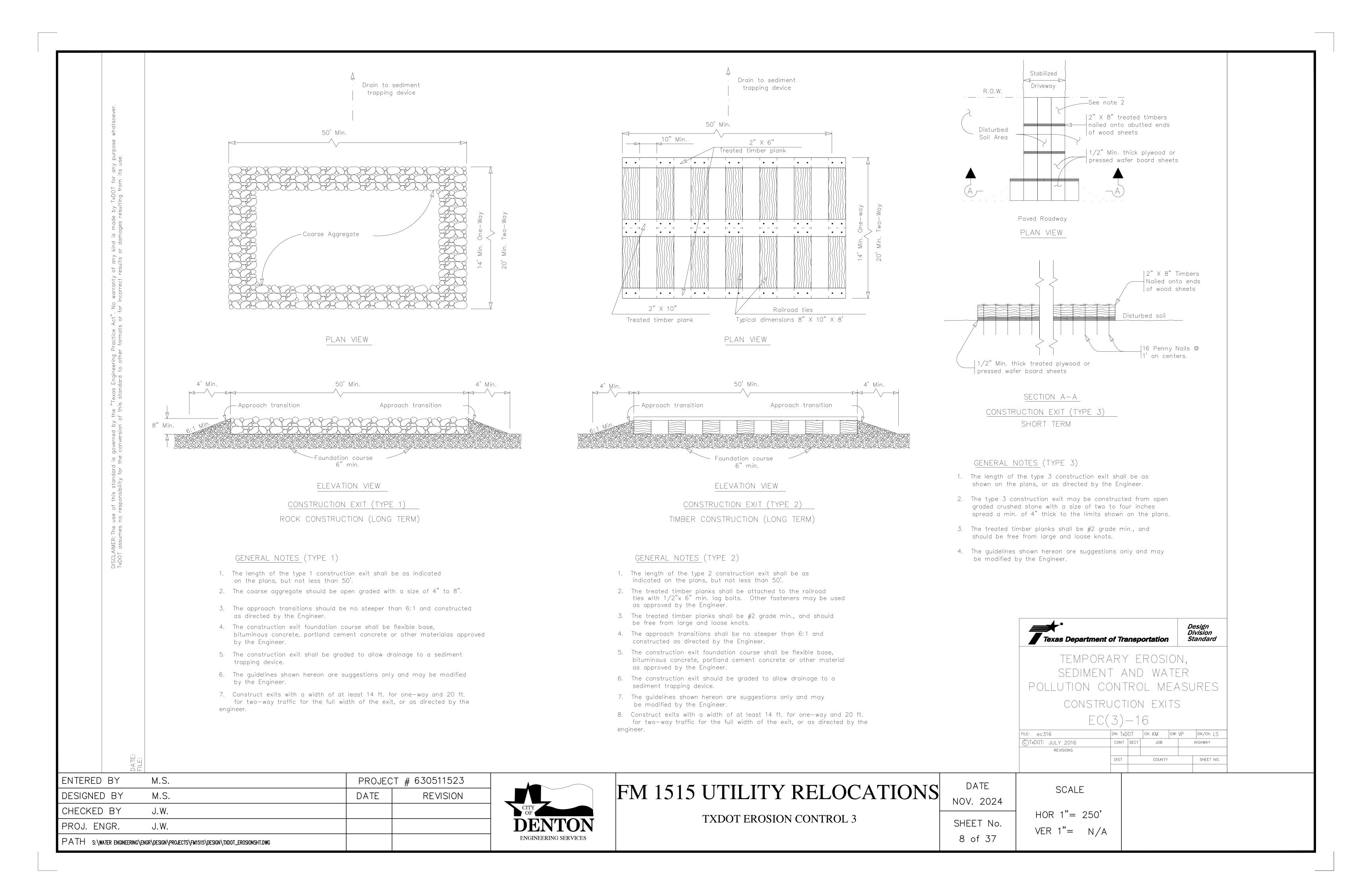
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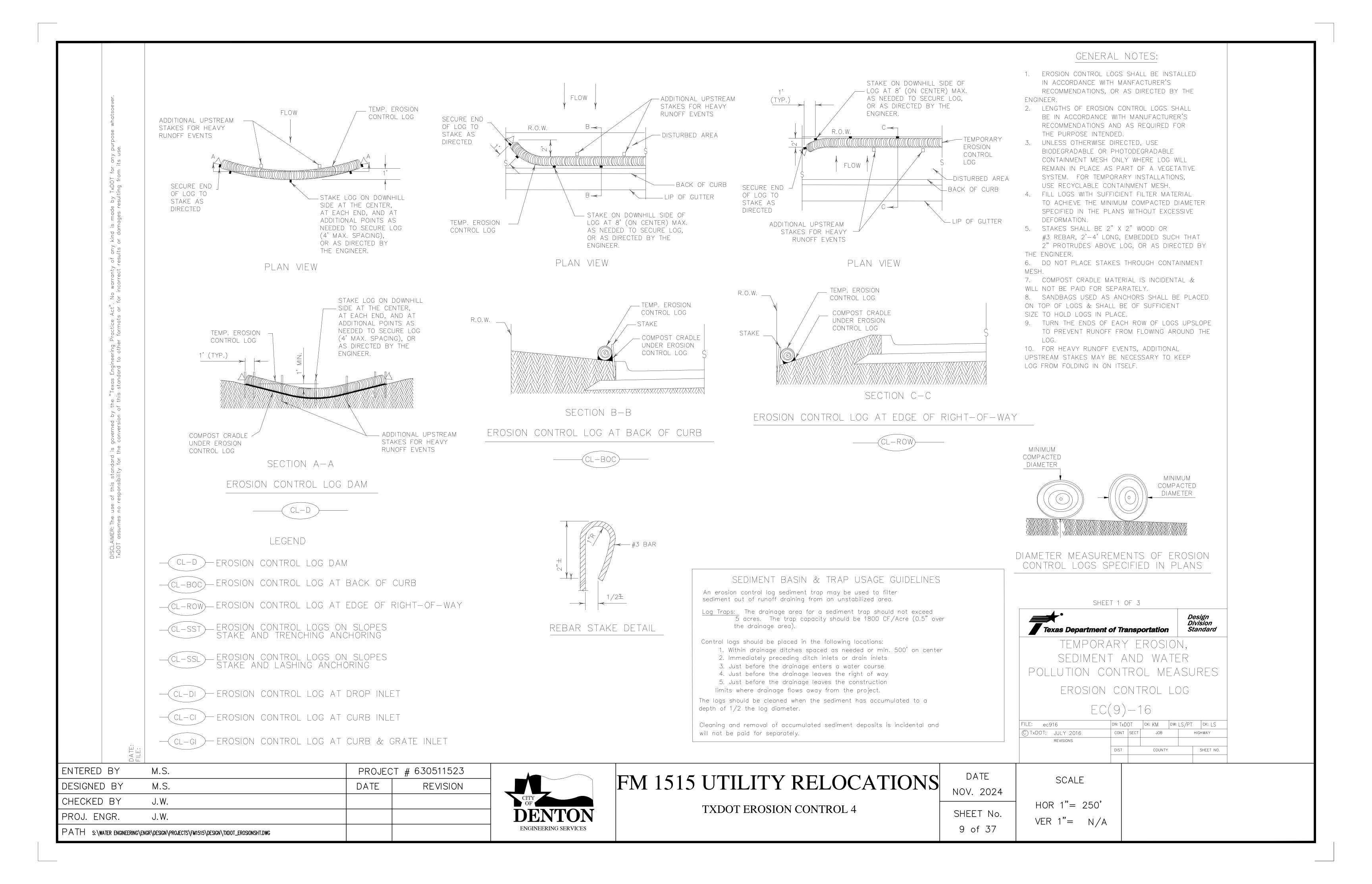
HOR 1"= NTS

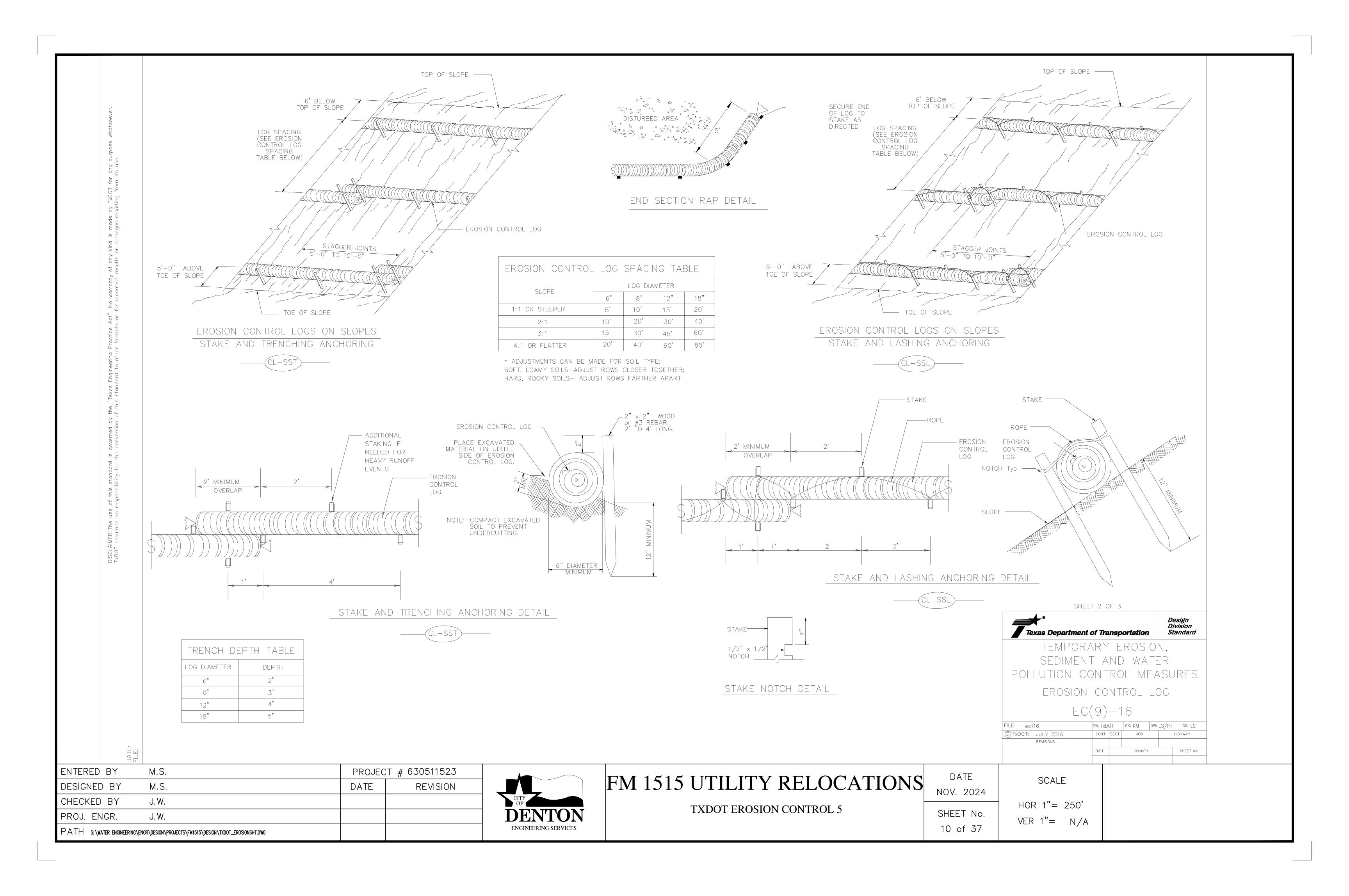
SCALE

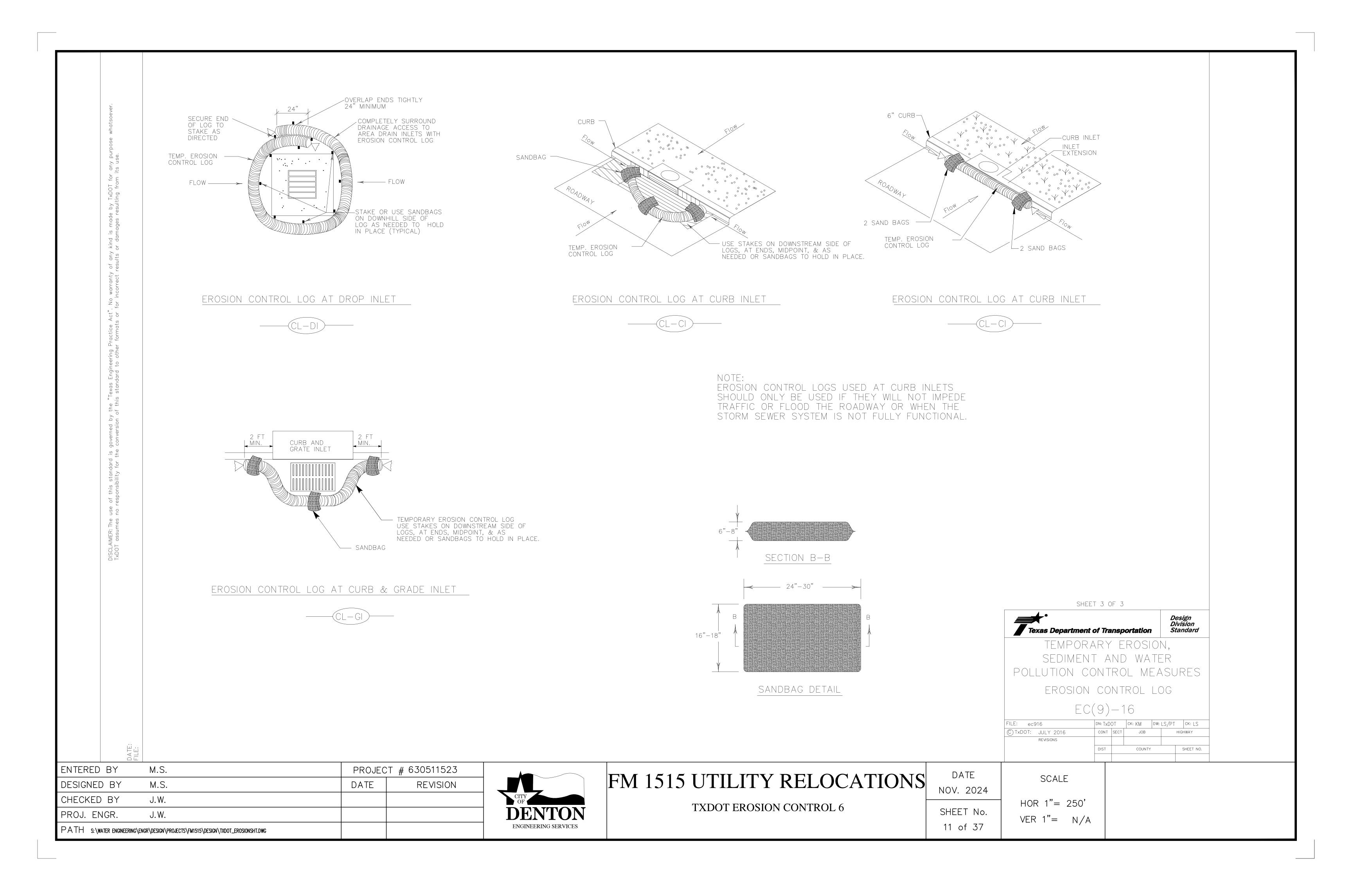












TRAFFIC CONTROL PLAN GUIDLINES:

ALL TRAFFIC CONTROL PLANS FOR THIS PROJECT SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW BY THE CITY PRIOR TO IMPLEMENTATION. THE PLANS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. TRAFFIC CONTROL PLANS SHALL BE SUBJECT TO THE SITE—SPECIFIC REQUIREMENTS ADDRESSED BELOW.

CROSSING CORBIN AT FM 1515

1. THE CONTRACTOR MAY CLOSE CORBIN AT FM 1515 TO INSTALL THE 16" WATERLINE CROSSING AT THIS LOCATION. THE TRAFFIC CONTROL PLAN MUST DIVERT TRAFFIC ON CORBIN TO USE SHELBY LN.

2. TRAFFIC CONTROL PLAN MUST RECEIVE TXDOT APPROVAL.

CROSSING DAKOTA AT FM 1515

1. THE CONTRACTOR MAY CLOSE DAKOTA AT FM 1515 TO INSTALL THE 16" WATERLINE CROSSING AT THIS LOCATION. THE TRAFFIC CONTROL PLAN MUST DIVERT TRAFFIC ON CORBIN TO USE SHELBY LN.

2. TRAFFIC CONTROL PLAN MUST RECEIVE TXDOT APPROVAL.

WORK IN TXDOT ROW BEHIND THE SHOULDER

1. SIGNAGE AND CHANNELIZING DEVICES MUST BE PROVIDED ACCORDING TO TXDOT DIAGRAM TCP (1-1a) WHICH CAN BE FOUND ON TXDOT DETAIL TCP (1-1) - 18.

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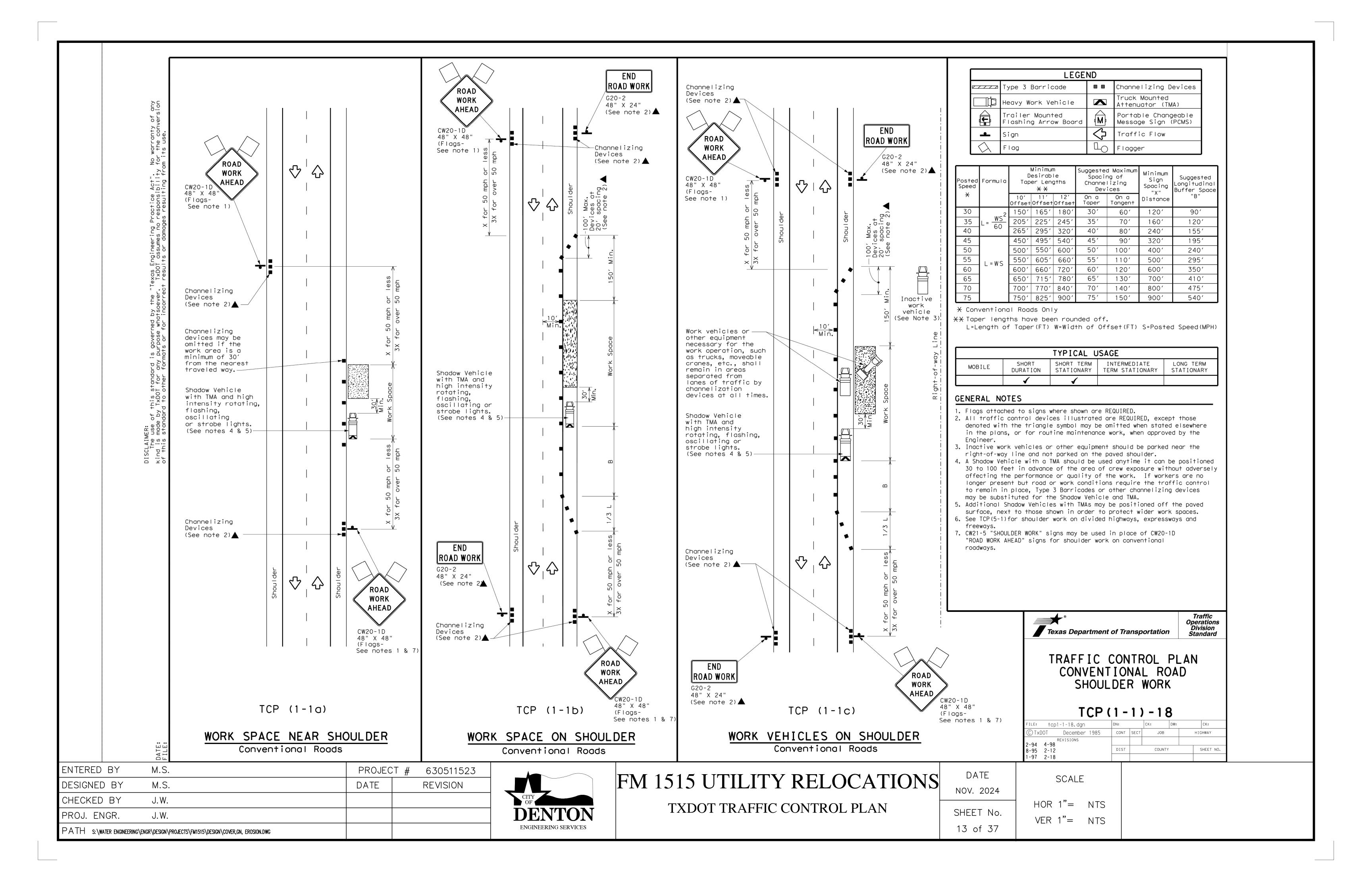
FM 1515 UTILITY RELOCATIONS

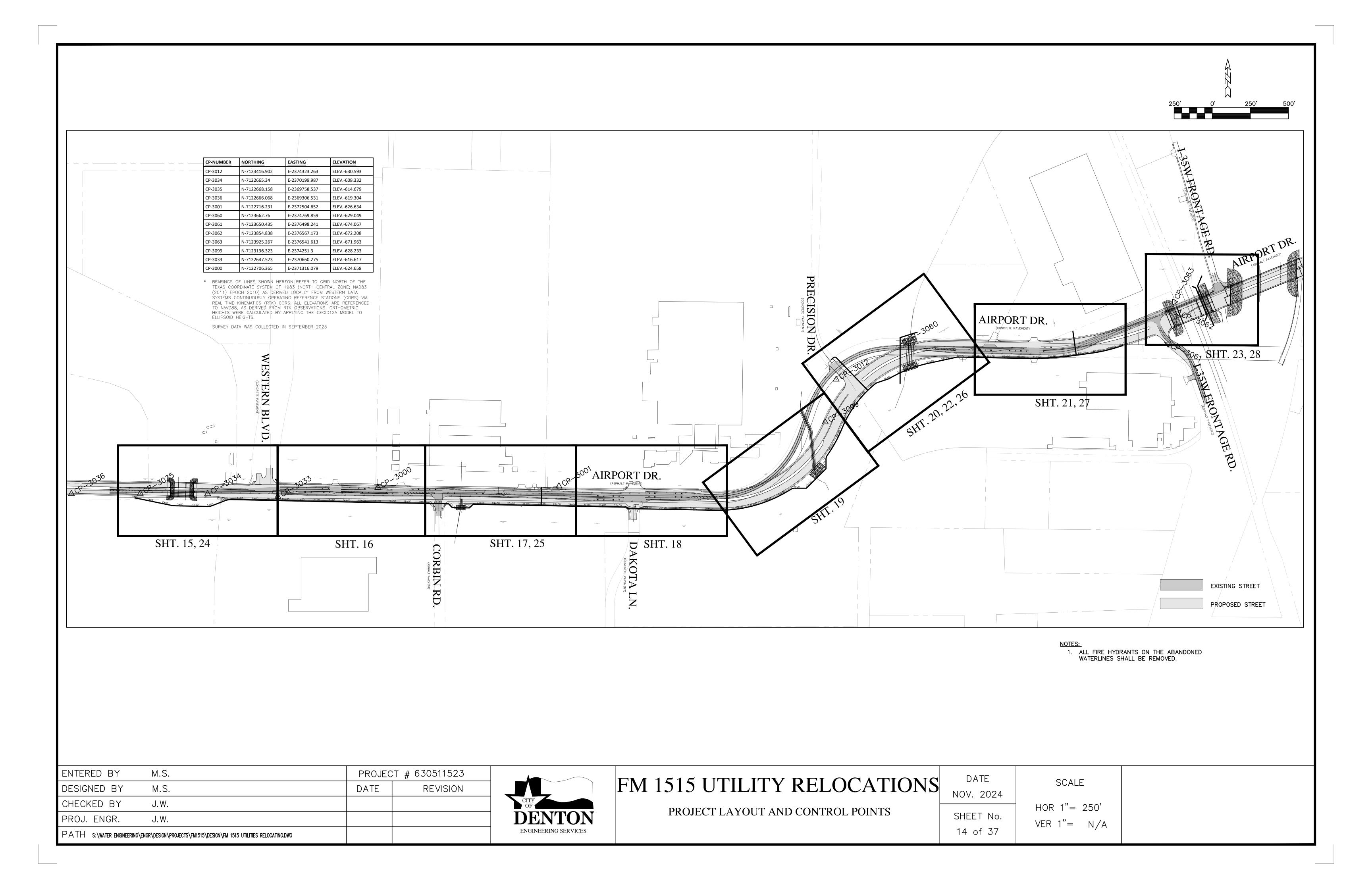
TRAFFIC CONTROL NARRATIVE

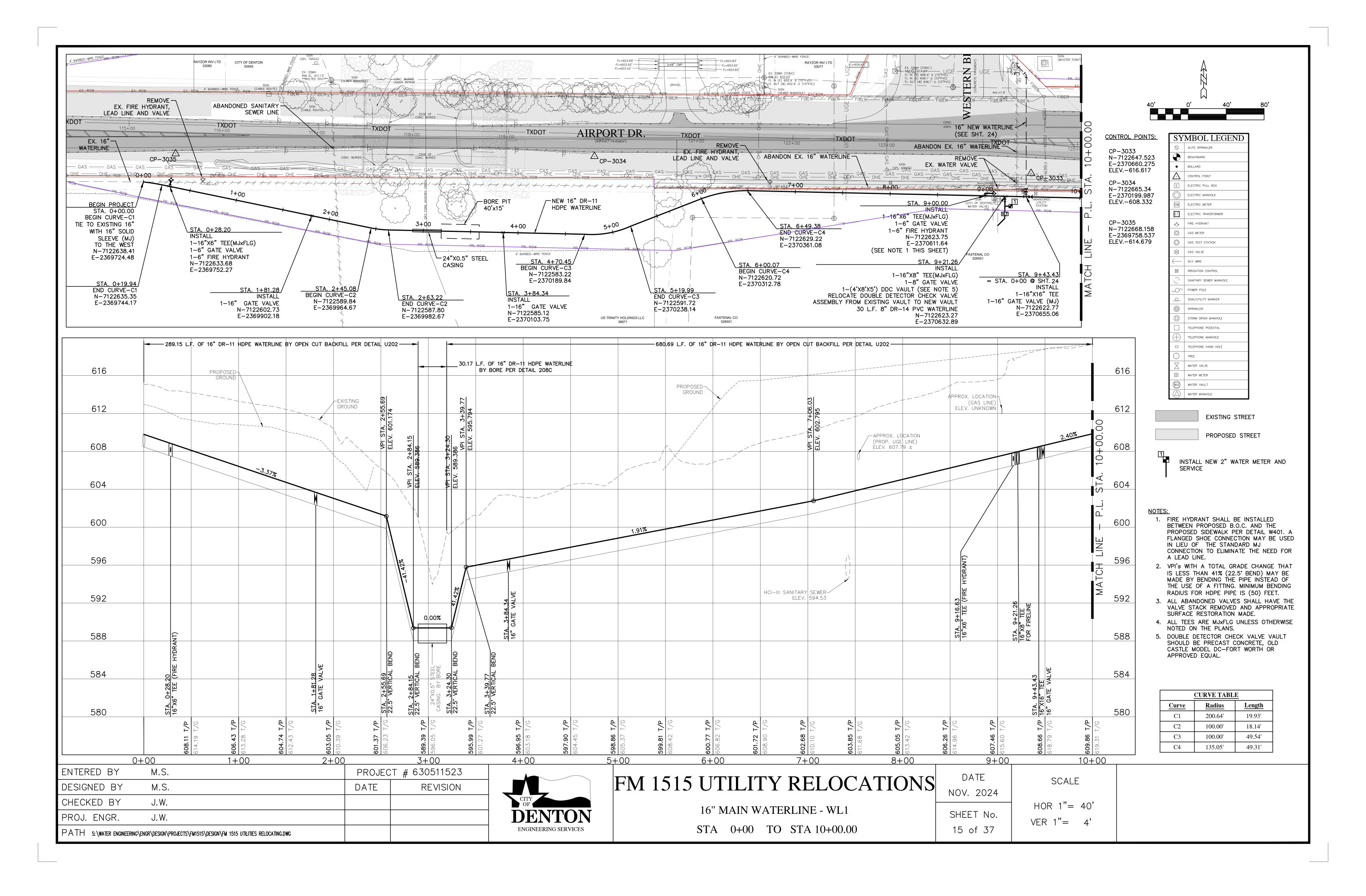
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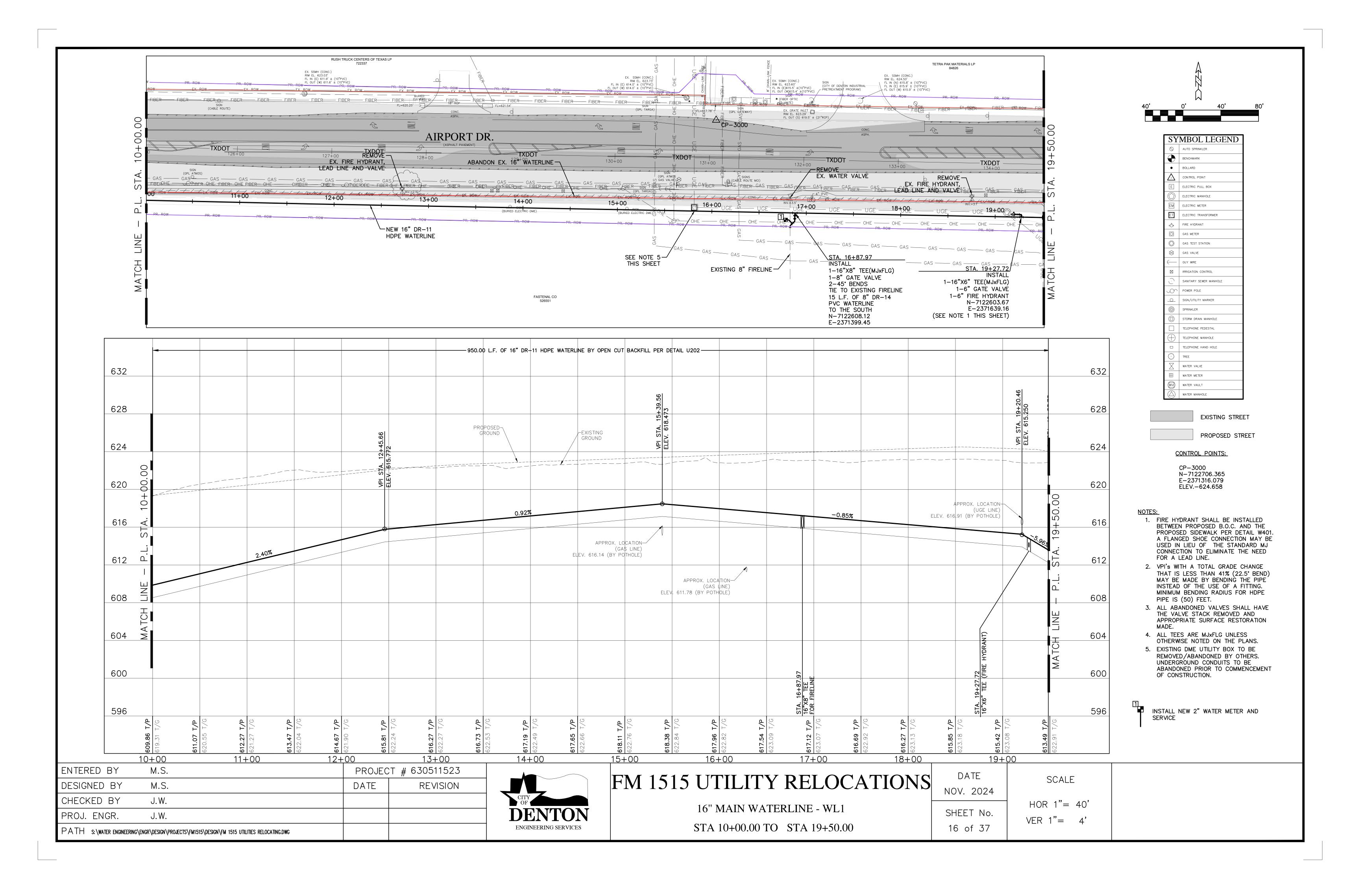
SHEET No. 12 of 37 HOR 1"= NTS

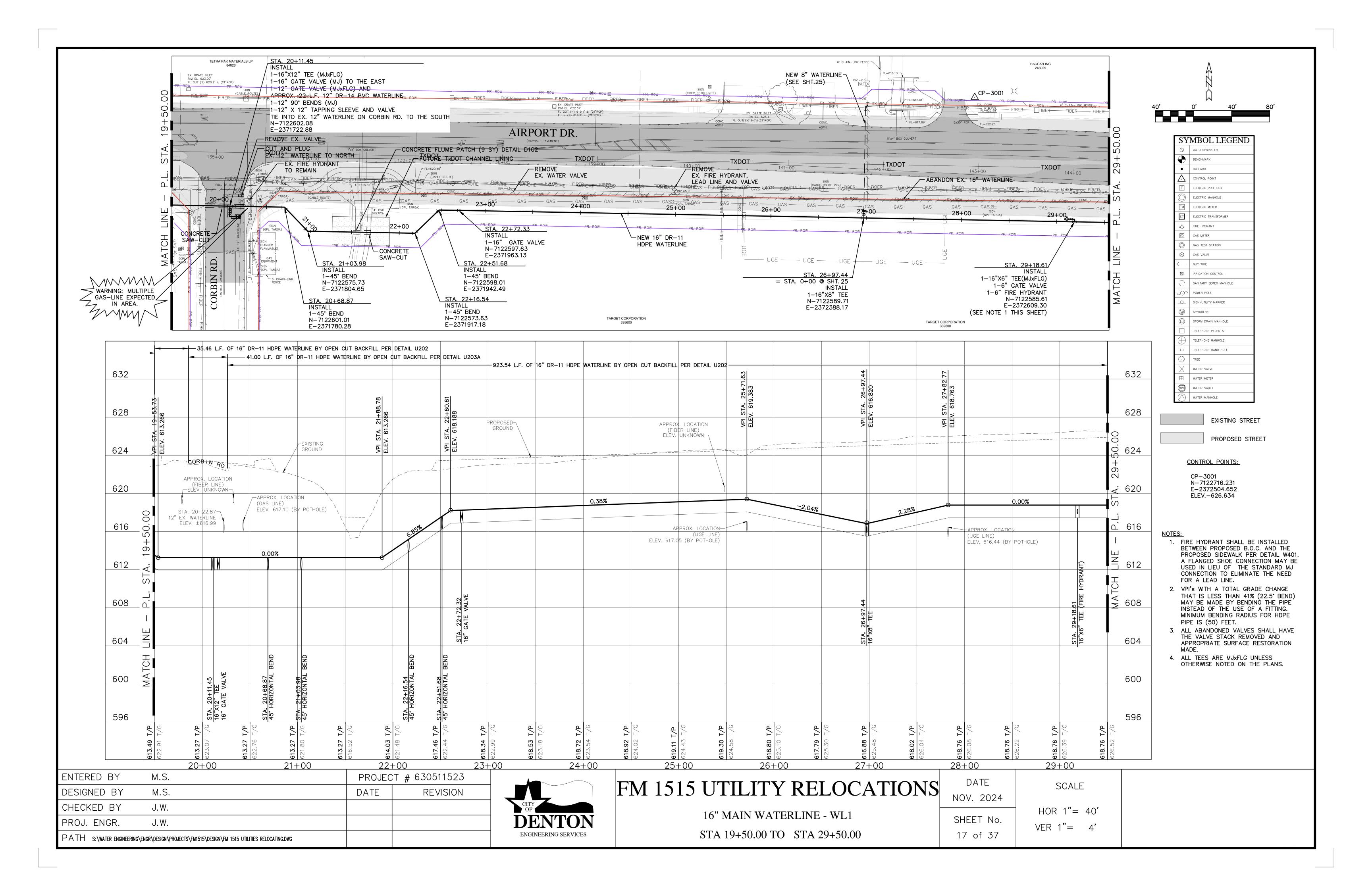
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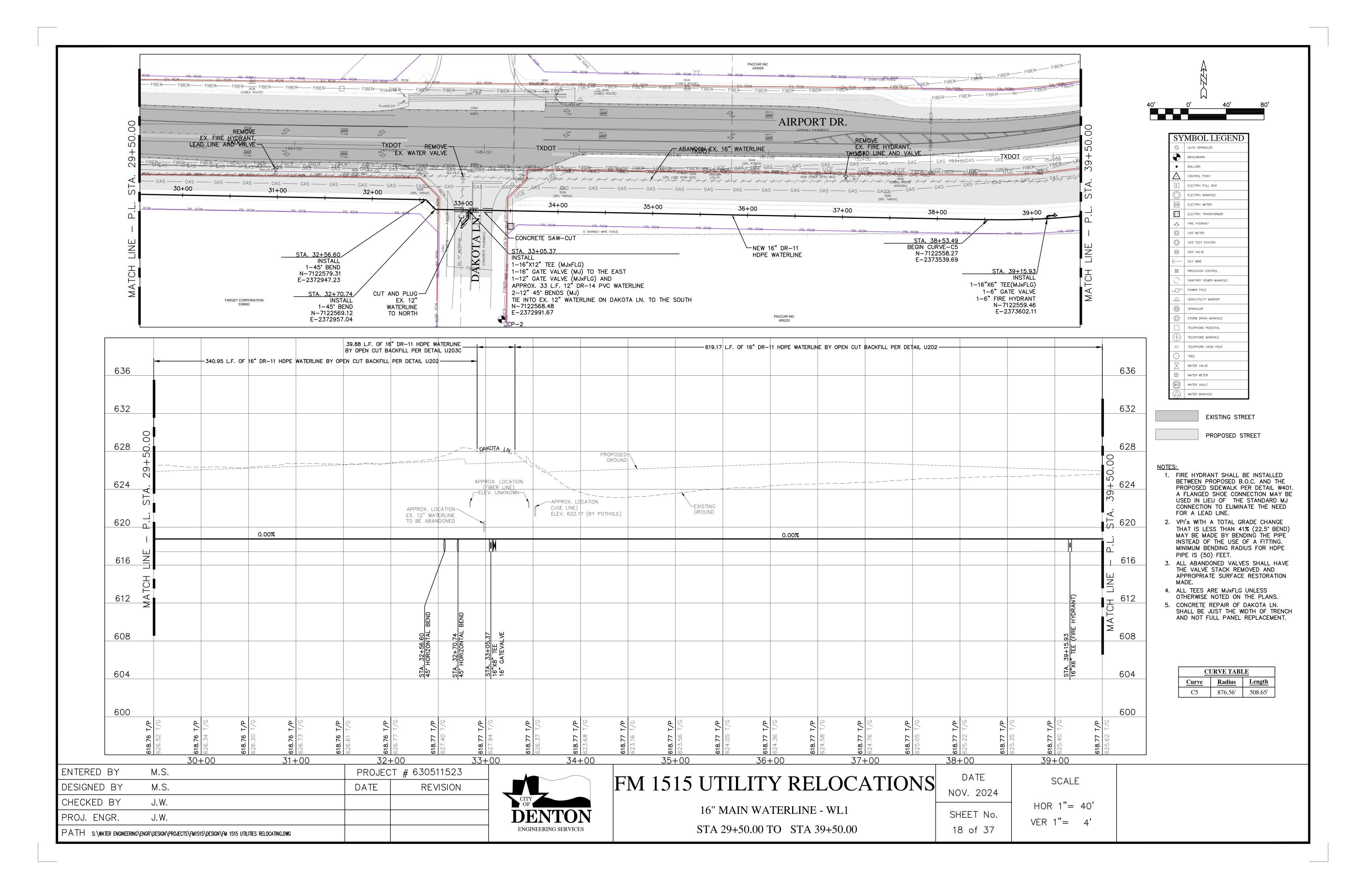


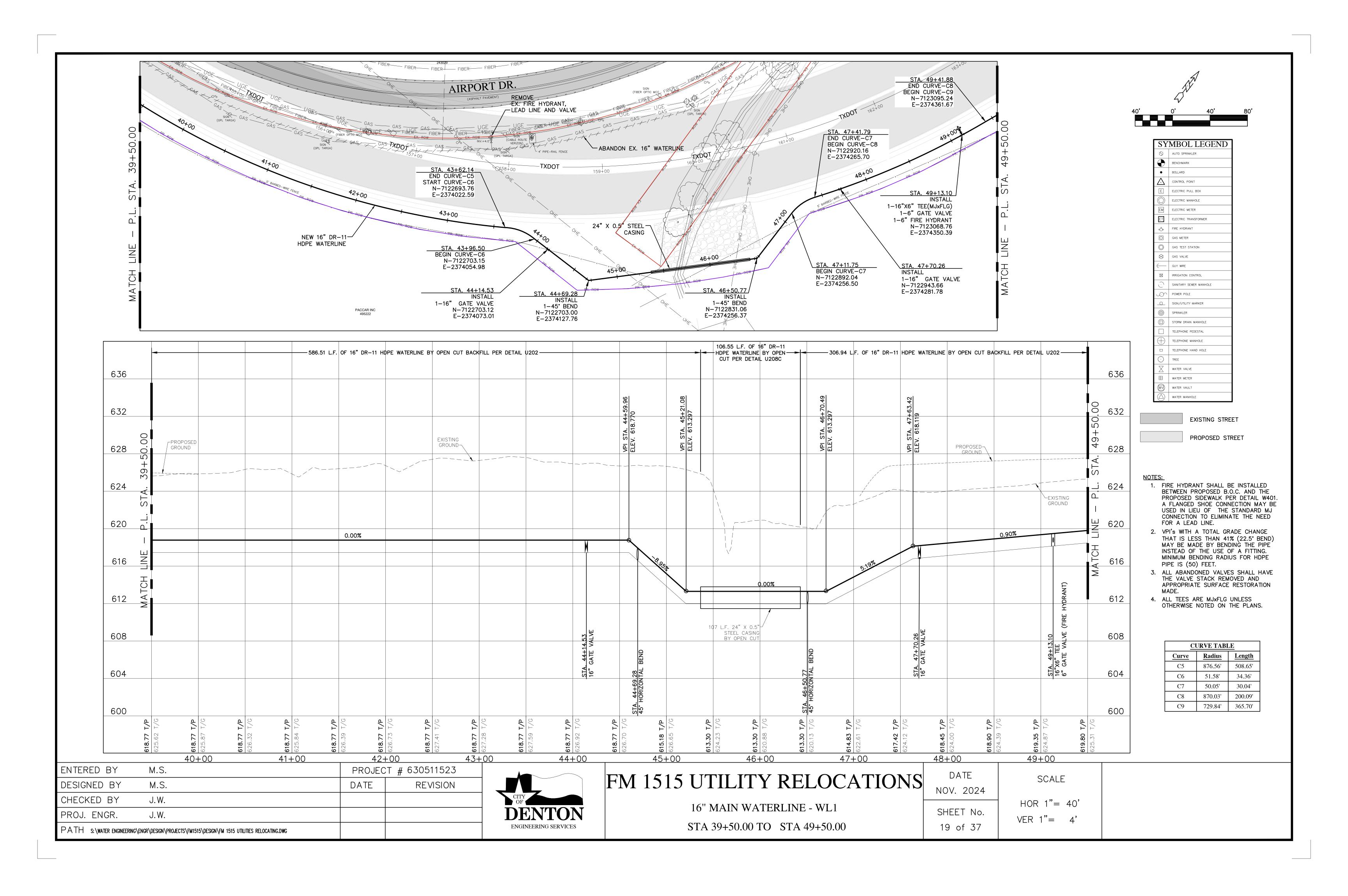


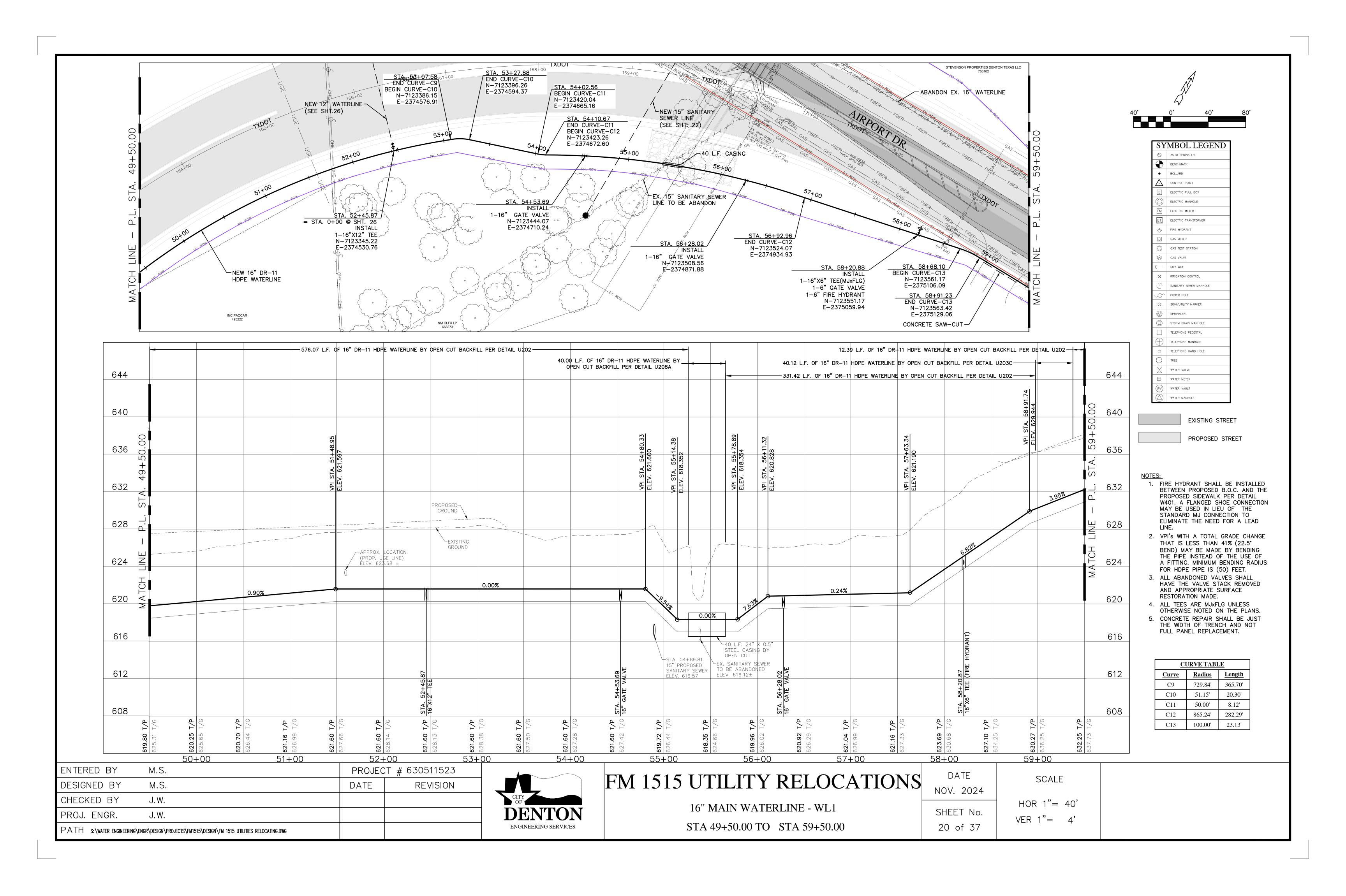


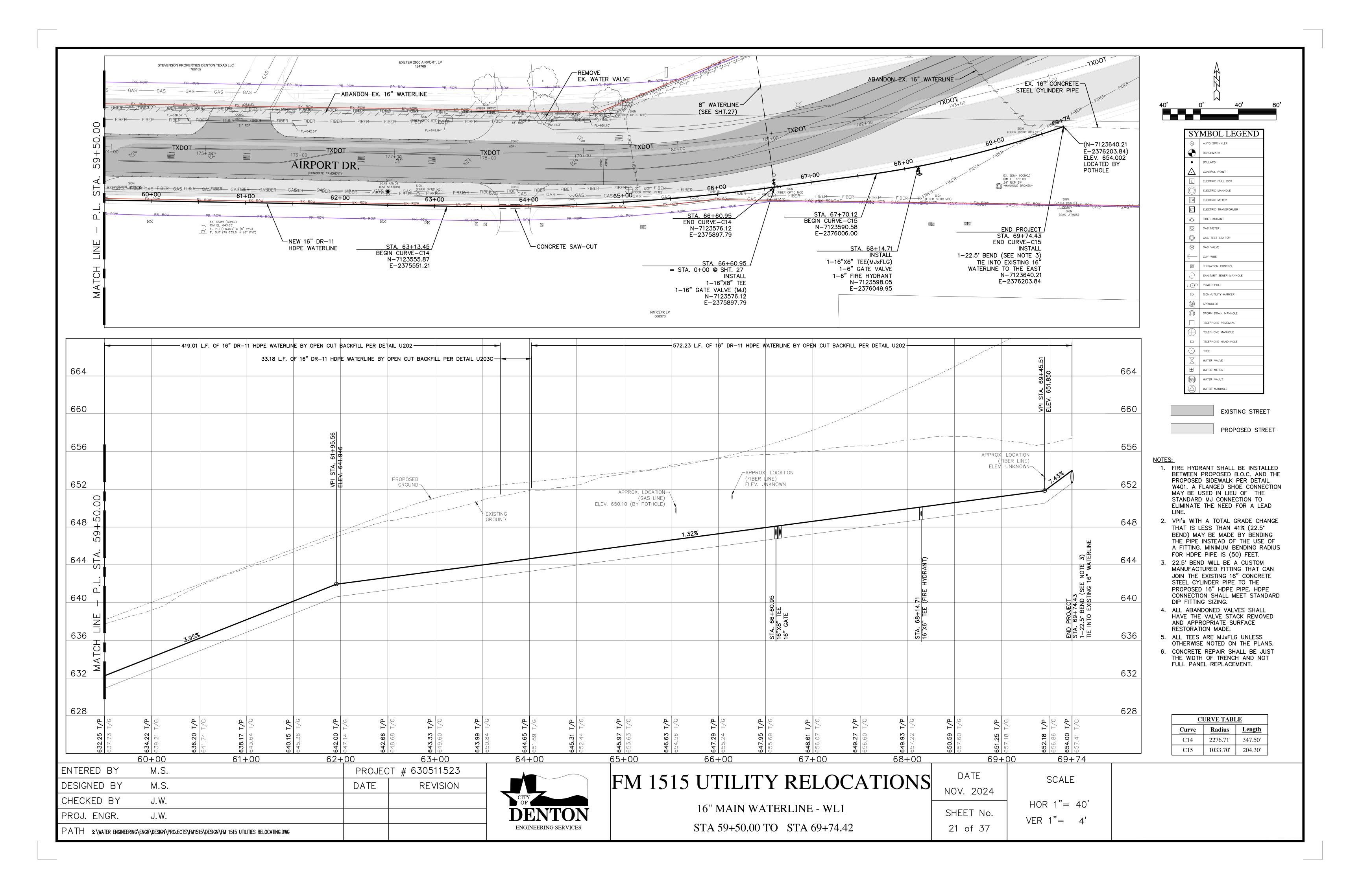


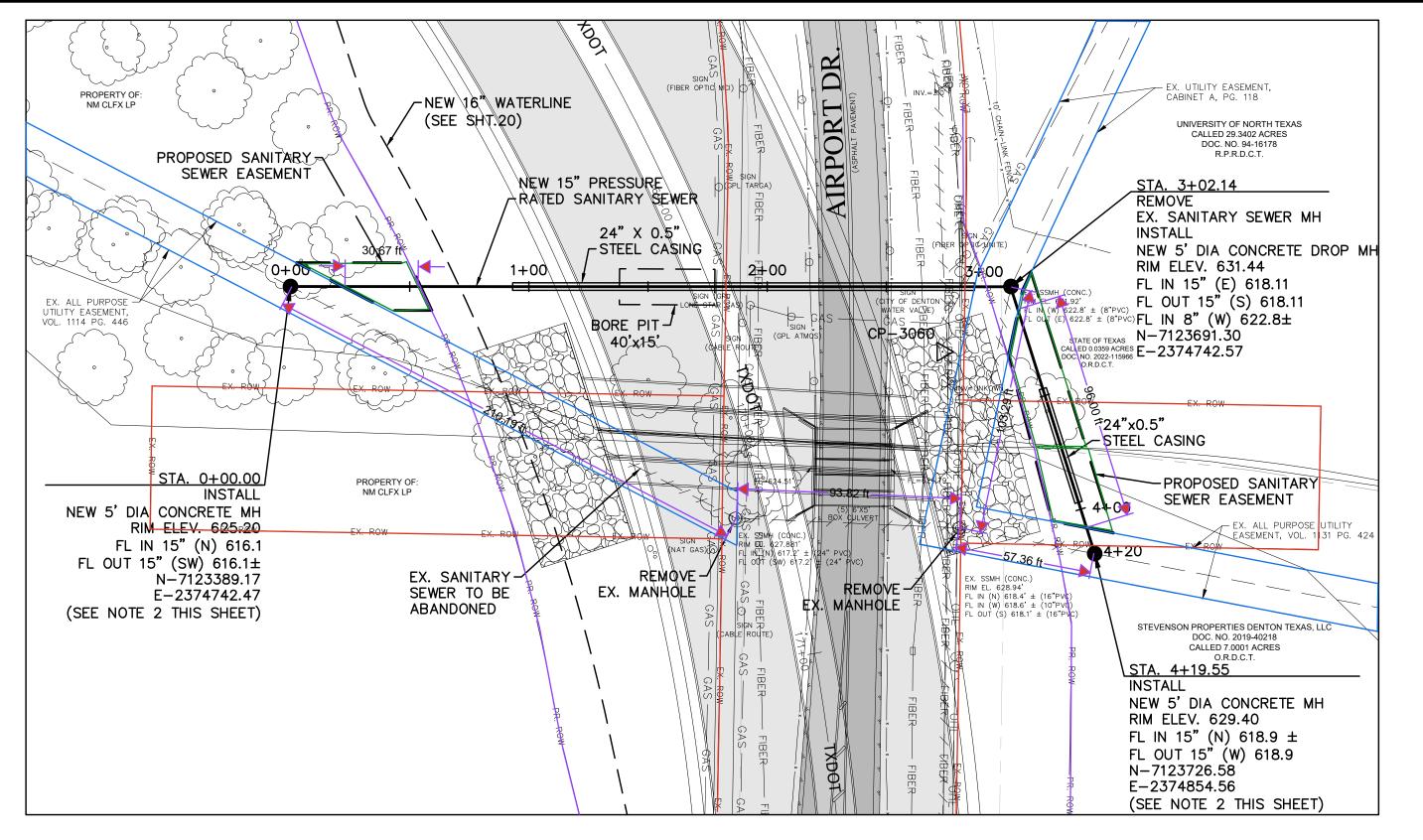












	93.23 L.F. SANITARY	SEWERI	85.84 L.F. OF 15" SANIT SEWER BY OPEN CUT	ı_ SANI	107.77 L.F. OF 15" ITARY SEWER BY BORE	60.68 L.F. OF 15" SANITARY SEWER	49.79 L.F. OF		3 L.F. OF 15" SANITARY
	BY OPEN CU PER DETA	T BACKFILL	BACKFILL WITH 24" STE CASING PER DETAIL U202+U208A	EL WIT	TH 24" STEEL CASING PER DETAIL U208A	BY OPEN CUT BACKFILL PER DETAIL U202	SEWER BY OPEN CUT BACKFILL WITH 24" STEEL CASING PER	SEWER	BY OPEN CUT BACKFILL PER DETAIL U202
632			PROPOSED-GROUND				DETAIL U202+208A		632
628	EXISTING- GROUND				APPROX. LOCATION				628
624		<i>Y Y Y Y Y Y Y Y Y Y</i>	`ELEV.	OCATION— CABLE) 625.65 OTHOLE)	(FIBER CABLE) ELEV. UNKNOWN APPROX. LOCATION (FIBER CABLE) ELEV. 625.68 (BY POTHOLE)				624
620	PROP. 16" WATE T/P 620	\$.57± \	APPROX. LOCATION (GAS LINE NOT FOUND FOUND FOUND FOUND FOUNDE ROCK ENCOUNTE AT ELEV. 620.	E) T	EX. 16" WATERLINE TO BE ABANDONED	EX. 8" SANI FL ELEV. 62	TARY SEWER 2.80±		620
616			15" PRESSURE R			50' OF 24"	X 0.5"		616
612			24" X 0.5" STEEL CASING BY OPEN CUT	S	24" X 0.5"— STEEL CASING BY BORE	BY OPE	EN CUT		612
608	STA. 0+00.00 RIM EL 625.20 FL 15" IN (N) 616.10 FL 15" OUT (SW) 616.10±					A. 3+02.14 M EL 631.44 15" IN (E) 618.11 15" OUT (S) 618.11 8" IN (W) 622.8±		M EL 629.40 L 15" IN (N) 618.90± L 15" OUT (SW) 618.90	608
604	STA STA FL		0 0			<u> </u>		N 또 다 다	604
	616.10 FL 625.20 T/G 616.43 FL			617.43 FL 628.16 T/G		618.10 FL 631.39 T/G	630.38 T/G 630.38 T/G 618.77 FL 629.91 T/G	618.90 FL 629.40 T/G	
	0+00		+00	2+0		3+00	4+00	4+20	

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DESIGNED BY M.S.

DATE REVISION

CHECKED BY J.W.

PROJ. ENGR. J.W.

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FM 1515 UTILITY RELOCATIONS

15" SANITARY SEWER - SS1
STA 0+00 TO STA 4+19.55

DATE NOV. 2024

SCALE

HOR 1"= 40'

VER 1"= 4'

SHEET No. 22 of 37

\longrightarrow 7?



SY	MBOL LEGEND
0	AUTO SPRINKLER
+	BENCHMARK
•	BOLLARD
Δ	CONTROL POINT
E	ELECTRIC PULL BOX
	ELECTRIC MANHOLE
ЕМ	ELECTRIC METER
ET	ELECTRIC TRANSFORMER
-	FIRE HYDRANT
0	GAS METER
	GAS TEST STATION
\otimes	GAS VALVE
\leftarrow	GUY WIRE
\boxtimes	IRRIGATION CONTROL
Ċ	SANITARY SEWER MANHOLE
₩	POWER POLE
	SIGN/UTILITY MARKER
0	SPRINKLER
<u></u>	STORM DRAIN MANHOLE
	TELEPHONE PEDESTAL
\oplus	TELEPHONE MANHOLE
	TELEPHONE HAND HOLE
\odot	TREE
X	WATER VALVE
\blacksquare	WATER METER
	WATER VAULT
	WATER MANHOLE

EXISTING STREET

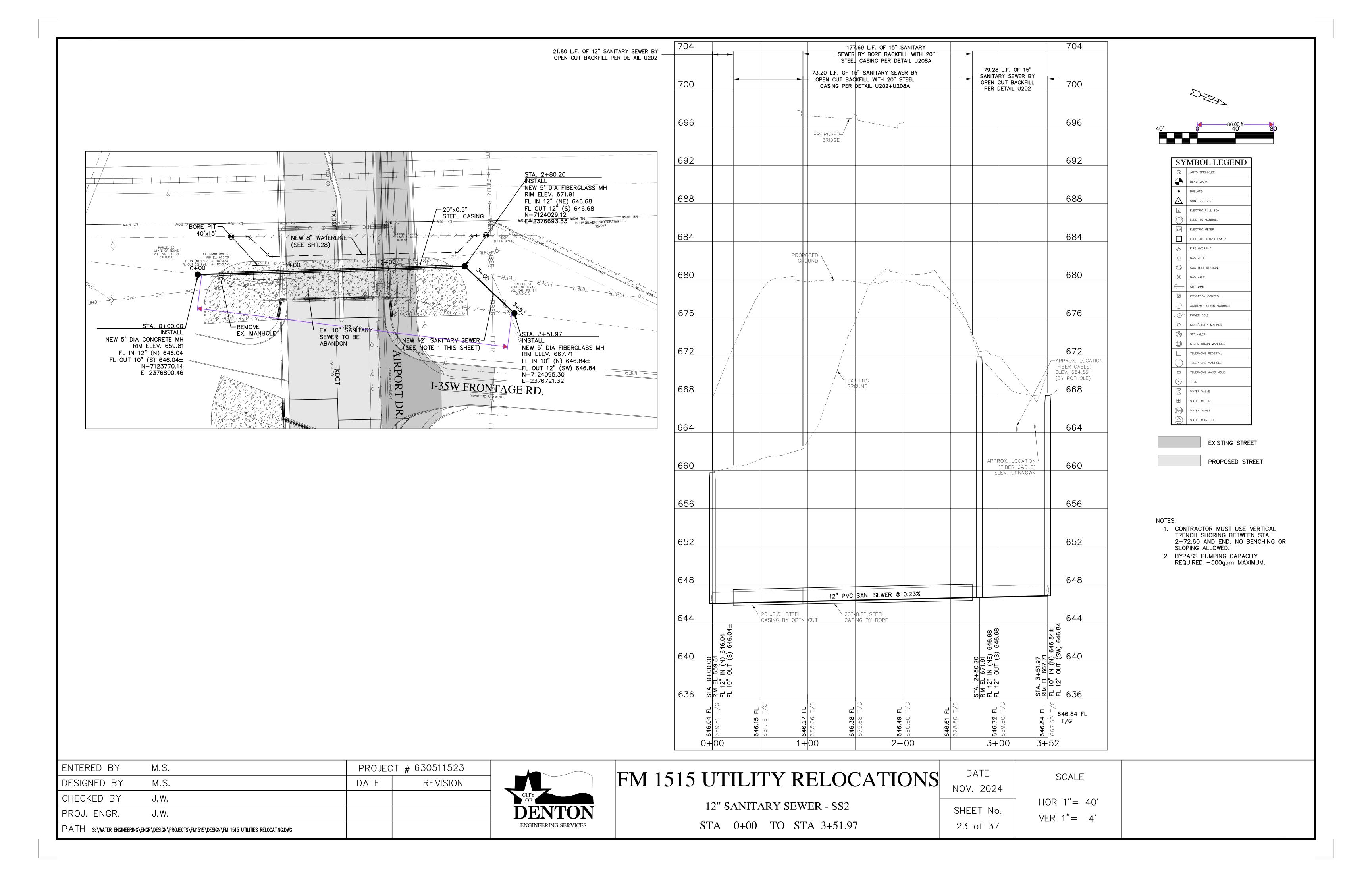
PROPOSED STREET

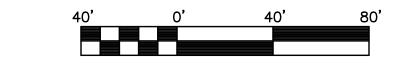
CONTROL POINTS:

CP-3060 N-7123662.76 E-2374769.859 ELEV.-629.049

NOTE

- 1. THE TARGA GAS LINE AT APPROX.
 STA. 1+80 COULD NOT BE LOCATED
 BY POTHOLING. DEPTH OF LINE
 CANNOT BE CONFIRMED.
- STUBOUT CONNECTIONS FOR NEW MANHOLES WITH EXISTING PIPE COUPLINGS PER SECTION 33 31 14 3.4.C. NO FLEXIBLE COUPLINGS ALLOWED.
- 3. BYPASS PUMPING CAPACITY REQUIRED 2400gpm MAXIMUM.





SY	MBOL LEGEND
0	AUTO SPRINKLER
•	BENCHMARK
•	BOLLARD
\triangle	CONTROL POINT
E	ELECTRIC PULL BOX
	ELECTRIC MANHOLE
EM	ELECTRIC METER
ΕT	ELECTRIC TRANSFORMER
⁴	FIRE HYDRANT
0	GAS METER
0	GAS TEST STATION
\otimes	GAS VALVE
\leftarrow	GUY WIRE
\boxtimes	IRRIGATION CONTROL
(·)	SANITARY SEWER MANHOLE
.S	POWER POLE
	SIGN/UTILITY MARKER
(a)	SPRINKLER
<u> </u>	STORM DRAIN MANHOLE
	TELEPHONE PEDESTAL
\oplus	TELEPHONE MANHOLE
	TELEPHONE HAND HOLE
\odot	TREE
X	WATER VALVE
⊞	WATER METER
	WATER VAULT
	WATER MANHOLE

EXISTING STRE

PROPOSED STREET

CONTROL POINTS:

CP-3033 N-7122647.523 E-2370660.275 ELEV.-616.617

NOTES:

- 1. FIRE HYDRANT SHALL BE INSTALLED BETWEEN PROPOSED B.O.C. AND THE PROPOSED SIDEWALK PER DETAIL W401.
- 2. VPI'S WITH A TOTAL GRADE CHANGE
 THAT IS LESS THAN 41% (22.5°
 BEND) MAY BE MADE BY BENDING
 THE PIPE INSTEAD OF THE USE OF
 A FITTING. MINIMUM BENDING RADIUS
 FOR HDPE PIPE IS (50) FEET.
- 3. ALL ABANDONED VALVES SHALL
 HAVE THE VALVE STACK REMOVED
 AND APPROPRIATE SURFACE
 RESTORATION MADE.
- ALL TEES ARE MJxFLG UNLESS OTHERWISE NOTED ON THE PLANS.

	RAYZOR SON OHE TO BE ABANDONED
PR. ROW	GAS —
NEW 16" WATERLINE (SEE SHT.15)	CP 1
PR. ROW	EX. 16" WATERLINE OHE BRICK GAS GAS GAS GAS GAS OHE OHE OHE OHE OHE OHE OHE OH
FASTENAL 528551	
FASTENAL CO S28651 BORE PIT— BORE PIT— BORE PIT— BORE PIT— BORE PIT—	REMOVER TO SOUTH
40'x15'	30.30 ft - 1+42 _{onc.} 3381 - FUEE - F
ST ABANDO	END PROJECT STA. 1+42.18 INSTALL
BEGIN PROJECT STA. 0+00.00 = STA. 9+43.43 @ SHT.15	
CONNECT TO 16"X16" TEE 1-16" GATE VALVE N-7122622 78	E-2370645.53
E-2370655.06	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	N-7122751.20 E-2370655.16 RAS GAS GA
PR. ROW	
*	GAS - GAS - TXDOT - T2G CAS - CAS

4.88 L.F. OF 16"					22.87 L.F. OF 16" DR-11	
DR-11 HDPE WATERLINE		43 L.F. OF 16 TERLINE BY B			HDPE WATERLINE BY	
BY OPEN CUT BACKFILL PER DETAIL U202		ASING PER DI			OPEN CUT BACKFILL PER DETAIL U202	
624					624	
620	PRDPOSED- GROUND		EXISTING- GROUND		620	
616				APPROX. L (FIBER CA ELEV. 616.	BLE) 67 616	
EX. 16" WATERLINE TO BE ABANDONED		—APPROX. LO (GAS LINE) ELEV. 614.11 (BY POTHOL		(BY POTH)	APPROX. LOCATION (FIBER CABLE) ELEV. UNKNOWN	
612					612	
		6" DR-11 H	.26% DPE WATER	LINE		
608	1	6 011		1	608	
	VIII	24"x0 STEEL BY B	CASING	- F	EX. SANITARY SEWER ELEV. 607.51±	
604					604	
600					600	
	<u>ح</u> ا	17P	ē	٥/ و	O	
			J/P	3 T/G		
	618.65	609.82 619.11	610.95	618.93	618.59	
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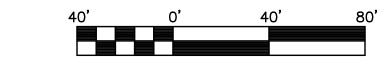
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CHECKED BY	J.W.		
PROJ. ENGR.	J.W.		
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FM 1515 UTILITY RELOCATIONS

16" WATERLINE CROSSING - WL2 STA 0+00 TO STA 1+42.18 DATE NOV. 2024

SHEET No. 24 of 37 HOR 1"= 40' VER 1"= 4'



SY	MBOL LEGEND
0	AUTO SPRINKLER
•	BENCHMARK
•	BOLLARD
\triangle	CONTROL POINT
E	ELECTRIC PULL BOX
	ELECTRIC MANHOLE
EM	ELECTRIC METER
ΕT	ELECTRIC TRANSFORMER
-	FIRE HYDRANT
0	GAS METER
0	GAS TEST STATION
\otimes	GAS VALVE
\leftarrow	GUY WIRE
	IRRIGATION CONTROL
(\cdot)	SANITARY SEWER MANHOLE
<u></u>	POWER POLE
	SIGN/UTILITY MARKER
<u></u>	SPRINKLER
<u> </u>	STORM DRAIN MANHOLE
	TELEPHONE PEDESTAL
\oplus	TELEPHONE MANHOLE
	TELEPHONE HAND HOLE
0	TREE
X	WATER VALVE
	WATER METER
WV	WATER VAULT
	WATER MANHOLE

EXISTING STREET

PROPOSED STREET

CONTROL POINTS:

CP-3001 N-7122716.231 E-2372504.652 ELEV.-626.634

NOTES:

- FIRE HYDRANT SHALL BE INSTALLED BETWEEN PROPOSED B.O.C. AND THE PROPOSED SIDEWALK PER DETAIL W401.
- 2. VPI'S WITH A TOTAL GRADE CHANGE THAT IS LESS THAN 41% (22.5° BEND) MAY BE MADE BY BENDING THE PIPE INSTEAD OF THE USE OF A FITTING. MINIMUM BENDING RADIUS FOR HDPE PIPE IS (50) FEET.
- 3. ALL ABANDONED VALVES SHALL
 HAVE THE VALVE STACK REMOVED
 AND APPROPRIATE SURFACE
 RESTORATION MADE.
- ALL TEES ARE MJxFLG UNLESS OTHERWISE NOTED ON THE PLANS.

NEW 16" WATERLINE - (SEE \$HT.17)	TXDOT TX	TETRA PAK MATERIALS LP 84826
BORE PIT 40'x15' BEGIN PROJECT STA. 0+00.00 = STA. 26+97.44 @ SHT. 17 1-8" GATE VALVE	E-2372390.04 1	TERIALS LP
CONNECT TO 16"X8" TEE N-7122589.71 E-2372388.17 UGE PR. ROW P	INSTALL 1-45° BEND 1-8" SOLID SLEEVE TIE INTO EX. 8" WATERLIN N-7122707.87 E-2372392.47	E PACCAR INC 243029

5.00 L.F. OF 8" DR-11 HDPE WATERLINE BY OPEN CUT BACKFILL DETAIL U202	HDPE WAT	F. OF 8" DR-11 FERLINE BY BORE OF CASING PER FAIL U208C	-	5.24 L.F. OF 8" DR-11 HDPE WATERLINE BY OPEN CUT BACKFILL DETAIL U202
636				636
632				632
628		_EXISTII		628
PRO GF 624	POSED- ROUND	GROUN		624
APPROX. LOCA	TON—			
(FIBER CAB Elev. 620	BLE) \ .	PPROX. LOCATION		APPROX. LOCATION (FIBER CABLE)
(BY POTH	NE) / ((GAS LINE) LEV. 620.73		ELEV. ±621
620		POTHOLE)	(620
APPROX. LOCATION— (GAS LINE) ELEV. 619.31 (BY POTHOLE) 616	8" DR-11	2.78% WATERLINE HDPE WATERLINE 12"x0.375" STEEL CASING BY BORE		616
612		BY BORE 5" WATERLINE ABANDONED		612
608				608
٩/	√ 2 4	1/G	2 e	D/ L
, Z	_	· ·	4 S	
616.82	625.46 618.21	625.68	625.04 620.13	624.48
0+	00	1+	00 1	1+19

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DESIGNED BY	M.S.	DATE	REVISION
CHECKED BY	J.W.		
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FM 1515 UTILITY RELOCATIONS

8" WATERLINE CROSSING - WL3
STA 0+00 TO STA 1+19.20

NOV. 2024 SHEET No.

25 of 37

DATE

HOR 1"= 40' VER 1"= 4'





MDOL LECENID
MBOL LEGEND
AUTO SPRINKLER
BENCHMARK
BOLLARD
CONTROL POINT
ELECTRIC PULL BOX
ELECTRIC MANHOLE
ELECTRIC METER
ELECTRIC TRANSFORMER
FIRE HYDRANT
GAS METER
GAS TEST STATION
GAS VALVE
GUY WIRE
IRRIGATION CONTROL
SANITARY SEWER MANHOLE
POWER POLE
SIGN/UTILITY MARKER
SPRINKLER
STORM DRAIN MANHOLE
TELEPHONE PEDESTAL
TELEPHONE MANHOLE
TELEPHONE HAND HOLE
TREE
WATER VALVE
WATER METER
WATER VAULT
WATER MANHOLE

CONTROL POINTS:

EXISTING STREET

PROPOSED STREET

CP-3012 N-7123416.902 E-2374323.263 ELEV.-630.593

NOTES

- 1. FIRE HYDRANT SHALL BE INSTALLED
 BETWEEN PROPOSED B.O.C. AND THE
 PROPOSED SIDEWALK PER DETAIL
 W401.
- 2. VPI'S WITH A TOTAL GRADE CHANGE
 THAT IS LESS THAN 41% (22.5°
 BEND) MAY BE MADE BY BENDING
 THE PIPE INSTEAD OF THE USE OF
 A FITTING. MINIMUM BENDING RADIUS
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 RESTORATION MADE.
- ALL TEES ARE MJxFLG UNLESS OTHERWISE NOTED ON THE PLANS.

NEW 16" WATERLINE (SEE SHT.20)	ABANDON EX. 16" WATER	GEGAS CHARLE PAVENCENTY TO GAS	WITH 1-96 ON PRECIS N-712354 E-237429	8.52 EX. 12" WATERLINE O' BEND SION DR. -6.23
0+l00 THAT	1+00		PRECISION (CONCRETE PAVEMENT) (ST. ST. ST. ST. ST. ST. ST. ST. ST. ST.	NDR. CP-3
STA. 0+00.00 = STA. 52+45.87 @ SHT. 20 1-12" GATE VALVE CONNECT TO 16"X12" TEE N-7123345.22 E-2374530.76	NEW 12" DR-11 HDPE WATERLIN	FIBER FIBER FIBER FIBER	STA. 3+15. INSTALL 1-45° BENI N-7123562 E-2374307 STA. 3+01.76 INSTALL 1-45°BEND N-7123562.3 E-2374321.18	2.56 7.93
			NO WRES	UNIVERSITY OF NORTH TEXAS CALLED 29.3402 ACRES DOC. NO. 94-16178 R.P.R.D.C.T.

10.43 L.F. OF 8" DR-11 HDPE ATERLINE BY OPEN CUT BACKFILL	172.90 L.F. OF 12" DR-1	CKFILL WITH	06 L.F. OF 12" DR-11 E WATERLINE BY BORE ITH 18" CASING PER		72.13 L.F. OF 12" DR-11HDPE WATERLINE BY OPEN CUT BACKFILL PER DETAIL
DETAIL U202	18" CASING PER DETAIL U20	02+U208C "	DETAIL U208C		U202
636					636
P	ROPOSED~				
	GROUND		EXISTING- GROUND		
632					632
				EX. 16" WATE	
				APPROX.	
628	A	PPROX. LOCATION—	APPROX. LOCATION (FIBER CABLE)	(FIBER C	ABLE) 628
		(GAS LINE) ELEV. 626.89	ELEV. 626.79 (BY POTHOLE)		
		(BY POTHOLE)		V	
624			, v		624
		1.09%			
W.F	12" DR-1	1 HDPE WATERLINE	18"x0.5"		
620	10" 0 5"		STEEL CASING BY BORE		620
	18"x0 5" STEEL CASING				
	BY OPEN CUT				
616					616
310					<u> </u>
612					612
U1Z	77 P	<u> </u>	Q	4 1 C	<u>۱</u>
⊢ ·	• .				<u></u>
T/P 628.13	622.26 628.92 622.81 622.81	623.35 630.62 623.89	630.80 624.44 632.18	624.98 631.96 625.40	7.

ENTERED BY	M.S.	PROJEC	CT # 630511523
DESIGNED BY	M.S.	DATE	REVISION
CHECKED BY	J.W.		
PROJ. ENGR.	J.W.		
PATH s:\water engineering\e	NGR\DESIGN\PROJECTS\FM1515\DESIGN\FM 1515 UTILITIES RELOCATING.DWG		



FM 1515 UTILITY RELOCATIONS

12" WATERLINE CROSSING - WL4
STA 0+00 TO STA 3+38.53

NOV. 2024 SHEET No. 26 of 37

DATE

HOR 1"= 40' VER 1"= 4'



SY	MBOL LEGEND
(S)	AUTO SPRINKLER
+	BENCHMARK
•	BOLLARD
\triangle	CONTROL POINT
E	ELECTRIC PULL BOX
	ELECTRIC MANHOLE
ЕМ	ELECTRIC METER
ЕТ	ELECTRIC TRANSFORMER
~	FIRE HYDRANT
0	GAS METER
	GAS TEST STATION
\otimes	GAS VALVE
\leftarrow	GUY WIRE
\boxtimes	IRRIGATION CONTROL
(-)	SANITARY SEWER MANHOLE
<u></u>	POWER POLE
	SIGN/UTILITY MARKER
(a)	SPRINKLER
<u></u>	STORM DRAIN MANHOLE
	TELEPHONE PEDESTAL
\oplus	TELEPHONE MANHOLE
	TELEPHONE HAND HOLE
\odot	TREE
\boxtimes	WATER VALVE
\Box	WATER METER
(WV)	WATER VAULT
	WATER MANHOLE

EXISTING STREET

PROPOSED STREET

NOTES

- 1. FIRE HYDRANT SHALL BE INSTALLED BETWEEN PROPOSED B.O.C. AND THE PROPOSED SIDEWALK PER DETAIL W401.
- 2. VPI'S WITH A TOTAL GRADE CHANGE
 THAT IS LESS THAN 41% (22.5°
 BEND) MAY BE MADE BY BENDING
 THE PIPE INSTEAD OF THE USE OF
 A FITTING. MINIMUM BENDING RADIUS
 FOR HDPE PIPE IS (50) FEET.
- 3. ALL ABANDONED VALVES SHALL
 HAVE THE VALVE STACK REMOVED
 AND APPROPRIATE SURFACE
 RESTORATION MADE.
- ALL TEES ARE MJxFLG UNLESS OTHERWISE NOTED ON THE PLANS.

NM CLFX LP 668373	FIBER CONCETT PARENCE THE PARENENT FIBER CAS CAS FIBER FRENCHENT FIBER ROW PR.	EXETER 2900 AIRPORT, LP 184769
=	BEGIN PROJECT STA. 0+00.00 STA. 66+60.95 @ SHT. 21 1-8" GATE VALVE CONNECT TO 16"X8" TEE N-7123576.11 E-2375897.79	END PROJECT
	NEW 16" WATERLINE (SEE SHT. 21)	STA. 1+57.35 TIE INTO EXISTING 8" WATERLINE WITH 8" SOLID SLEEVE N-7123731.97 E-2375876.13

			 → WATERI	0 L.F. OF 8" DR-11 HDPE LINE BY OPEN CUT WITH 12" G PER DETAIL U202+U208C
5.04 L.F. OF 8" DR-11 HDPE WATERLINE BY OPEN CUT BACKFILL PER DETAIL U202	HDPE WATER	OF 8" DR-11 RLINE BY BORE CASING PER U208C		33.61 L.F. OF 8" DR-11 HDPE WATERLINE BY OPEN CUT BACKFILL DETAIL U202
660				660
656	PROPOSE GROUN			656
652	EXISTING GROUND			652
				-APPROX. LOCATION (FIBER CABLE) ELEV. UNKNOWN
648	8" DR-	-0.57% 11 HDPE WATERL	INL	648
644	12" STEEL	x0.375"_ CASING Y BORE	12"x0.375" STEEL CASING BY OPEN CUT	644
640				640
636				636
	648.90 T/P 655.72 T/G 648.61 T/P	656.10 T/G	654.65 T/G 648.04 T/P 648.00 T/P	

1+00

ENTERED BY	M.S.	PROJEC	CT # 630511523
DESIGNED BY	M.S.	DATE	REVISION
CHECKED BY	J.W.		
PROJ. ENGR.	J.W.		
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0+00

FM 1515 UTILITY RELOCATIONS

1+57

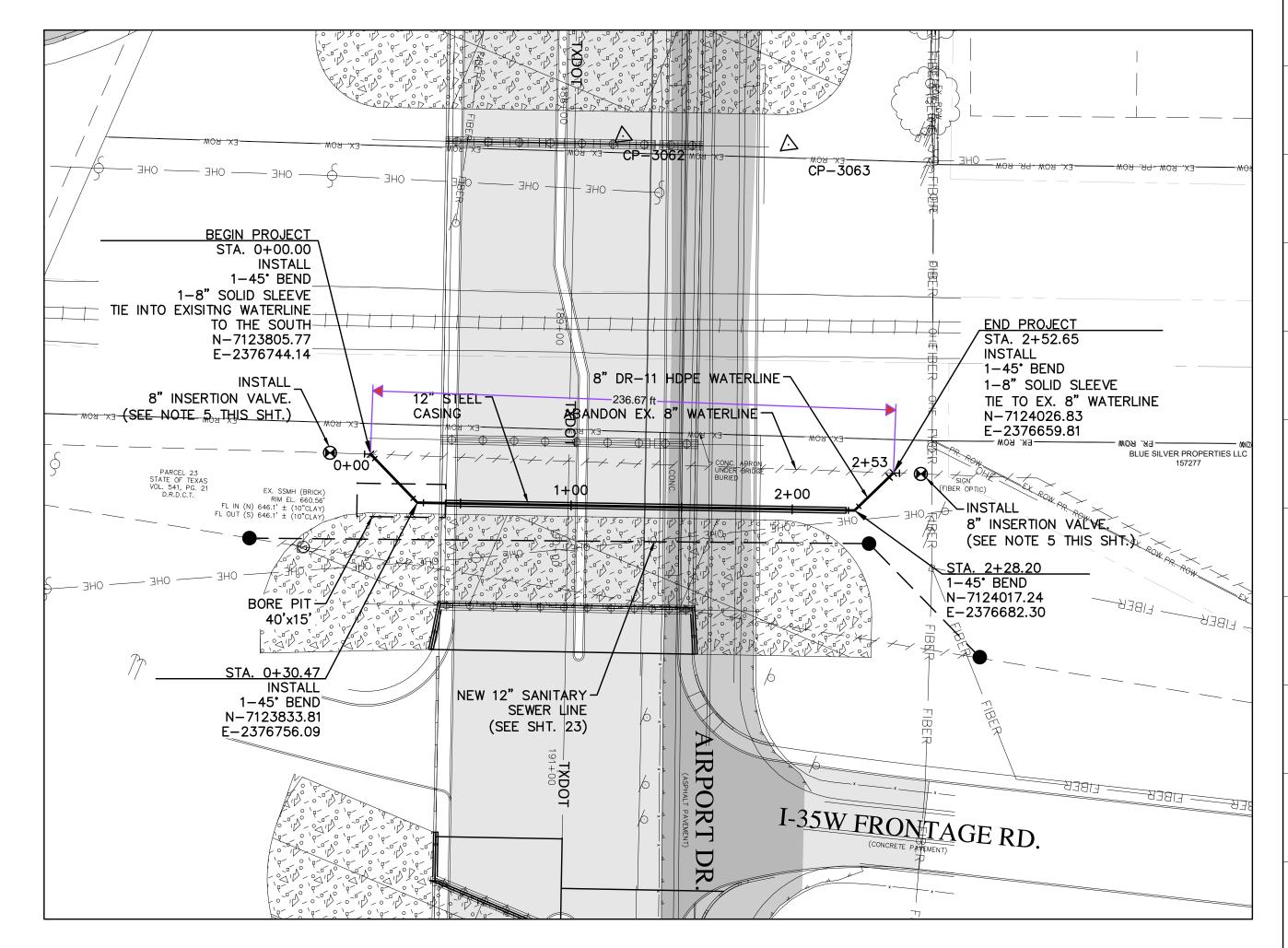
8" WATERLINE CROSSING - WL5
STA 0+00 TO STA 1+57.35

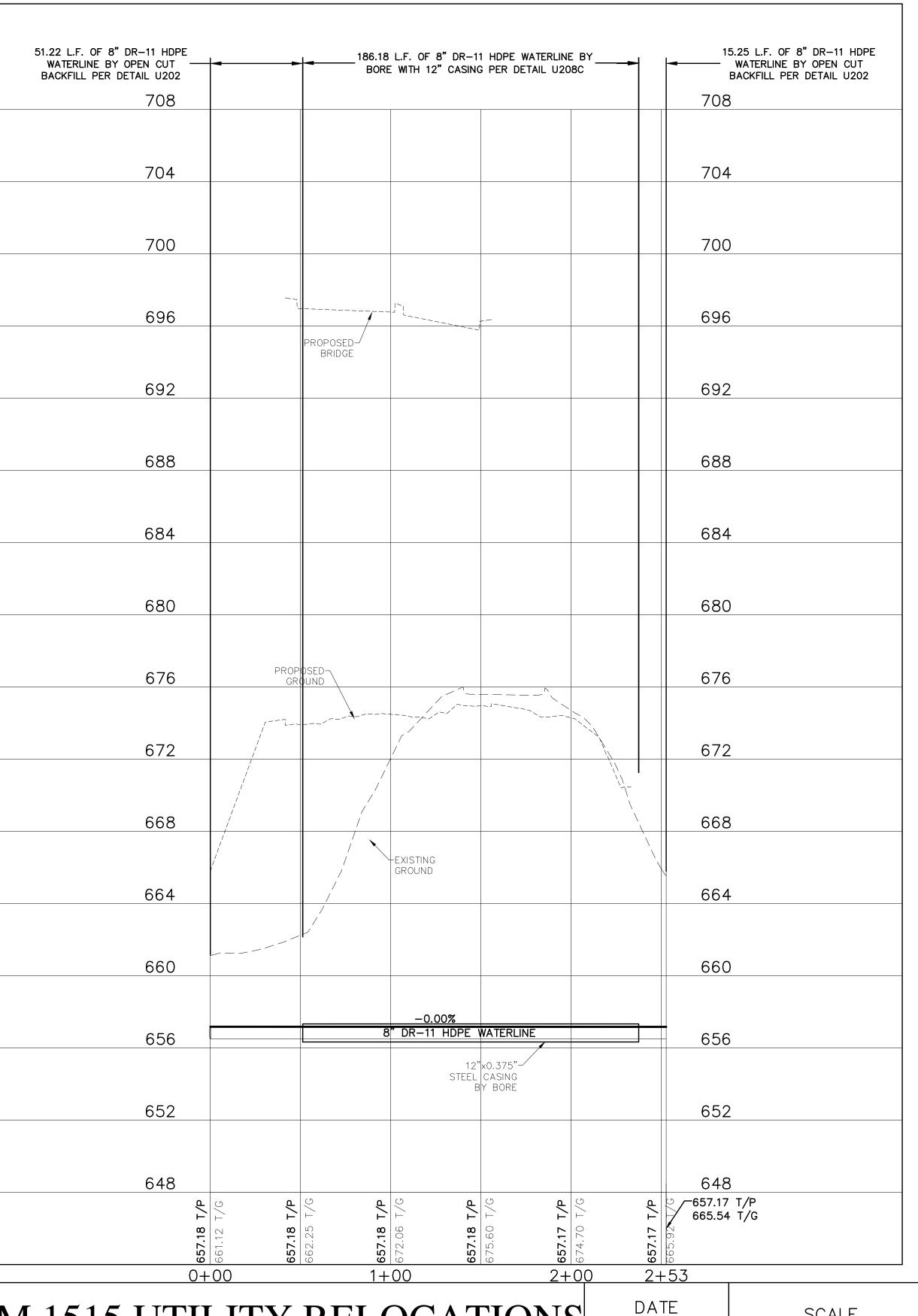
DATE NOV. 2024

SHEET No. 27 of 37 SCALE

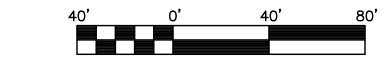
HOR 1"= 40'

VER 1"= 4'





DZZ



SY	MBOL LEGEND	
0	AUTO SPRINKLER	
1	BENCHMARK	
•	BOLLARD	
\triangle	CONTROL POINT	
E	ELECTRIC PULL BOX	
	ELECTRIC MANHOLE	
ЕМ	ELECTRIC METER	
ЕТ	ELECTRIC TRANSFORMER	
♣	FIRE HYDRANT	
0	GAS METER	
0	GAS TEST STATION	
\otimes	GAS VALVE	
\leftarrow	GUY WIRE	
\boxtimes	IRRIGATION CONTROL	
·	SANITARY SEWER MANHOLE	
<u></u>	POWER POLE	
	SIGN/UTILITY MARKER	
(a)	SPRINKLER	
<u> </u>	STORM DRAIN MANHOLE	
	TELEPHONE PEDESTAL	
\oplus	TELEPHONE MANHOLE	
	TELEPHONE HAND HOLE	
\odot	TREE	
X	WATER VALVE	
Ш	WATER METER	
WV	WATER VAULT	
\triangle	WATER MANHOLE	

EXISTING STREET

PROPOSED STREET

CONTROL POINTS:

CP-3062 N-7123854.838 E-2376567.173 ELEV.-672.208

CP-3063 N-7123925.267 E-2376541.613 ELEV.-671.963

<u>NOTE</u>

- 1. FIRE HYDRANT SHALL BE INSTALLED BETWEEN PROPOSED B.O.C. AND THE PROPOSED SIDEWALK PER DETAIL
- 2. VPI's WITH A TOTAL GRADE CHANGE THAT IS LESS THAN 41% (22.5° BEND) MAY BE MADE BY BENDING THE PIPE INSTEAD OF THE USE OF A FITTING. MINIMUM BENDING RADIUS FOR HDPE PIPE IS (50) FEET.
- ALL ABANDONED VALVES SHALL HAVE THE VALVE STACK REMOVED AND APPROPRIATE SURFACE RESTORATION MADE.
- 4. ALL TEES ARE MJxFLG UNLESS OTHERWISE NOTED ON THE PLANS.
- OTHERWISE NOTED ON THE PLANS.

 5. CONTRACTOR SHALL COORDINATE WITH COD WATER UTILITIES DEPARTMENT PRIOR TO ACQUIRING OR INSTALLING INSERTION VALVES . IF THE CITY CAN ISOLATE THE WATER LINE WITH EXISTING VALVES CLOSURES THE ISOLATION VALVES WILL NOT BE USED.

ENTERED BY	M.S.	PROJECT # 630511523	
DESIGNED BY	M.S.	DATE	REVISION
CHECKED BY	J.W.		
PROJ. ENGR.	J.W.		
PATH s:\water engineering\engr\design\projects\fm1515\design\fm 1515 utilities relocating.dwg			



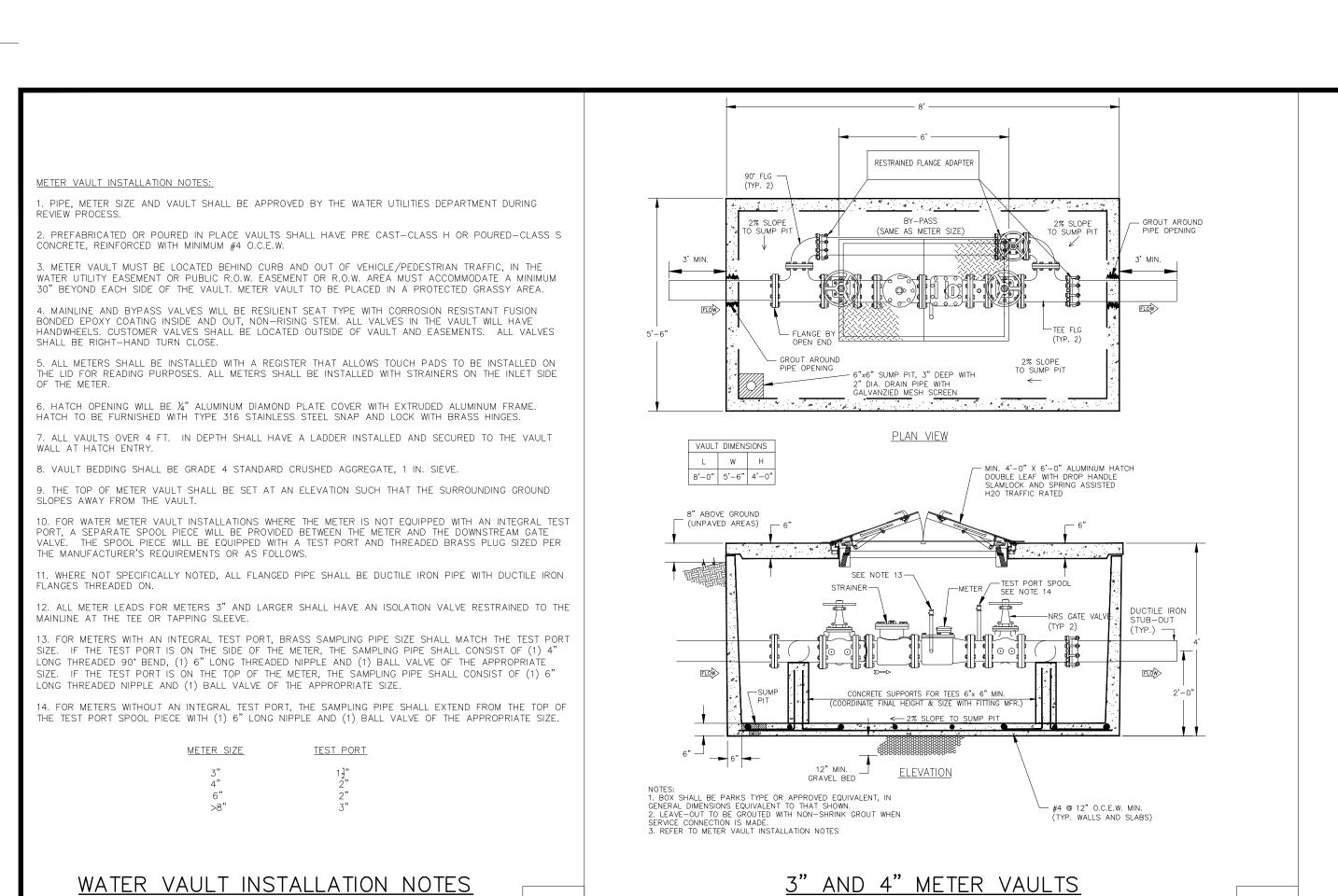
FM 1515 UTILITY RELOCATION	S
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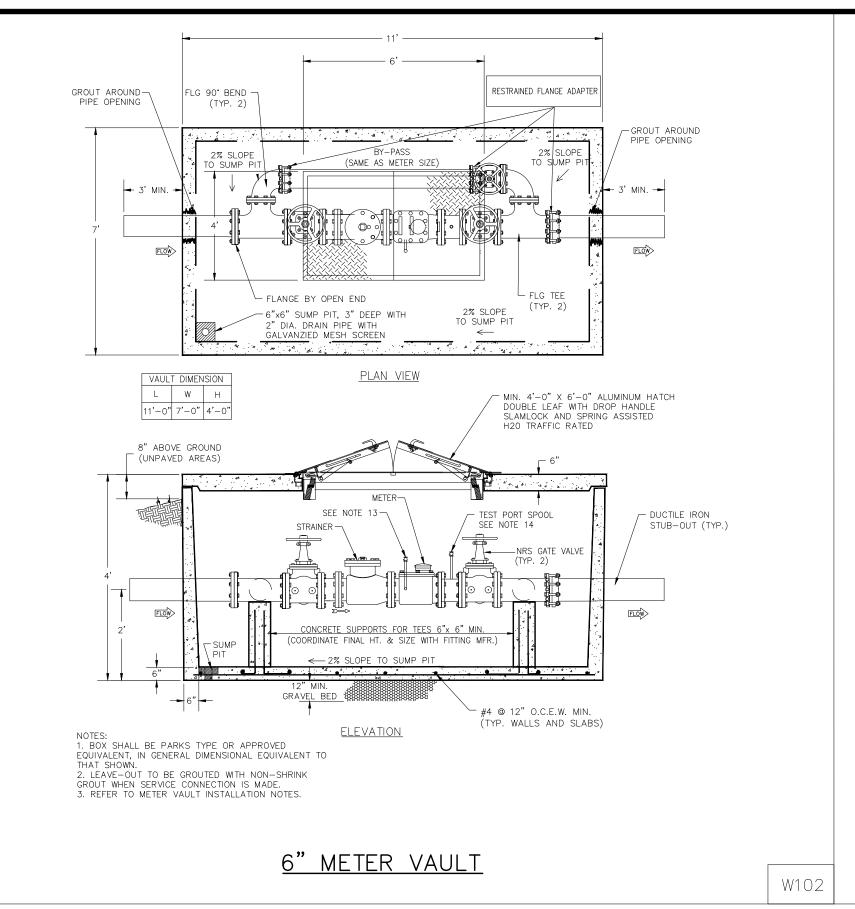
8" WATERLINE CROSSING -WL6
STA 0+00 TO STA 2+52.65

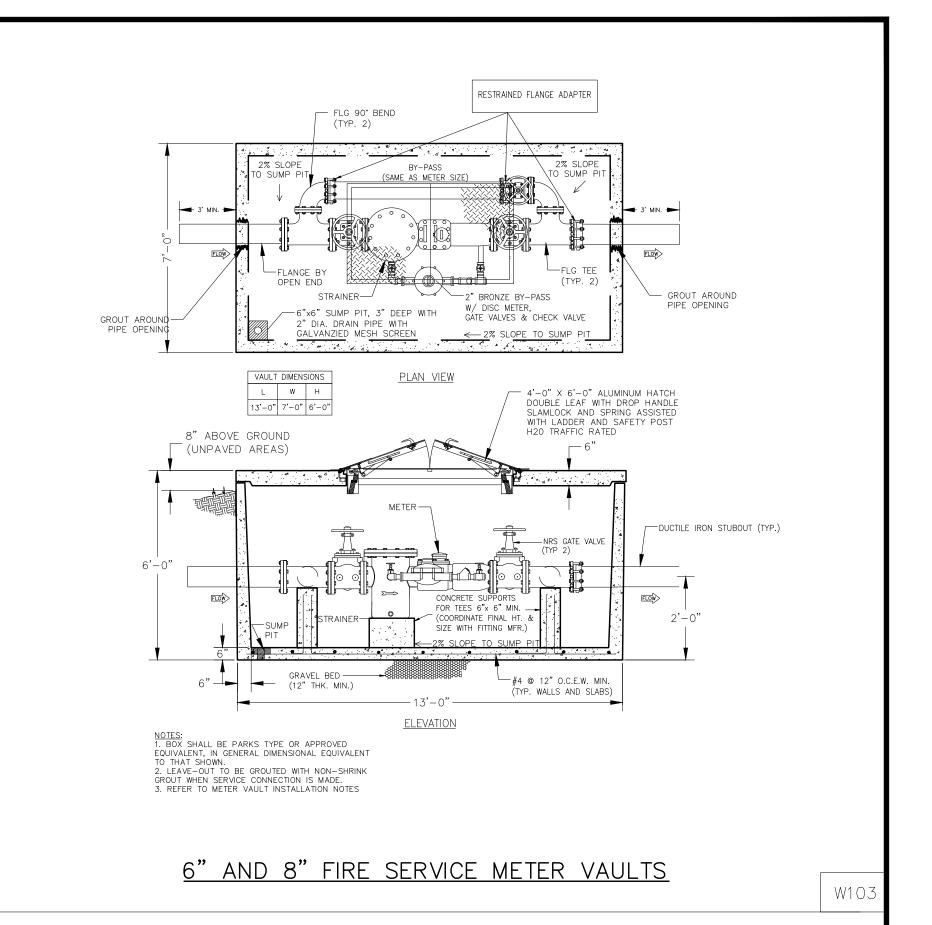
NOV. 2024 SHEET No. 28 of 37 SCALE

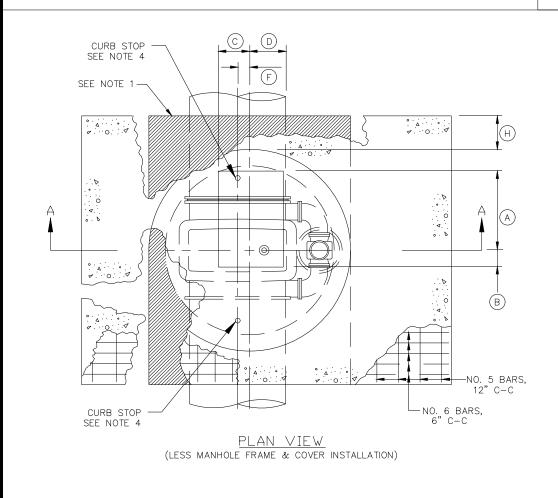
HOR 1"= 40'

VER 1"= 4'





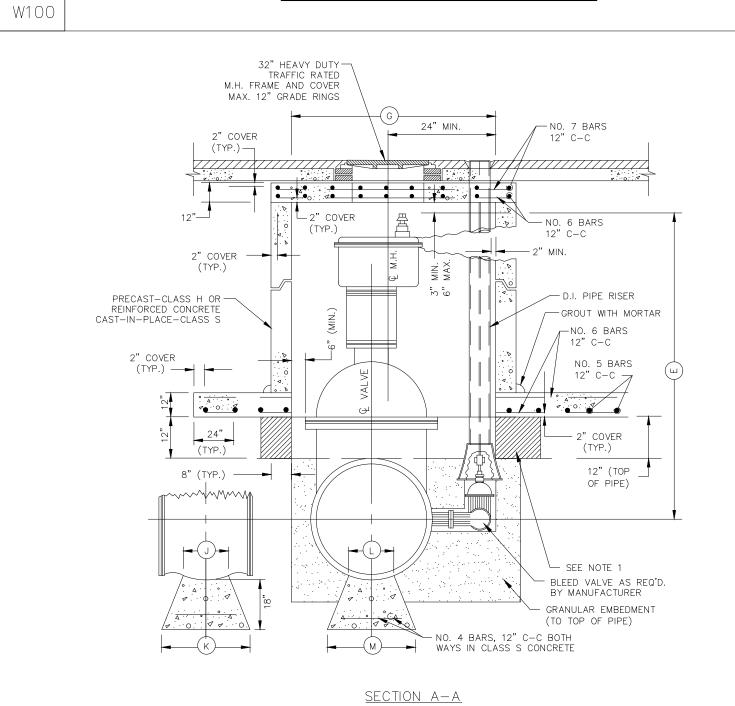




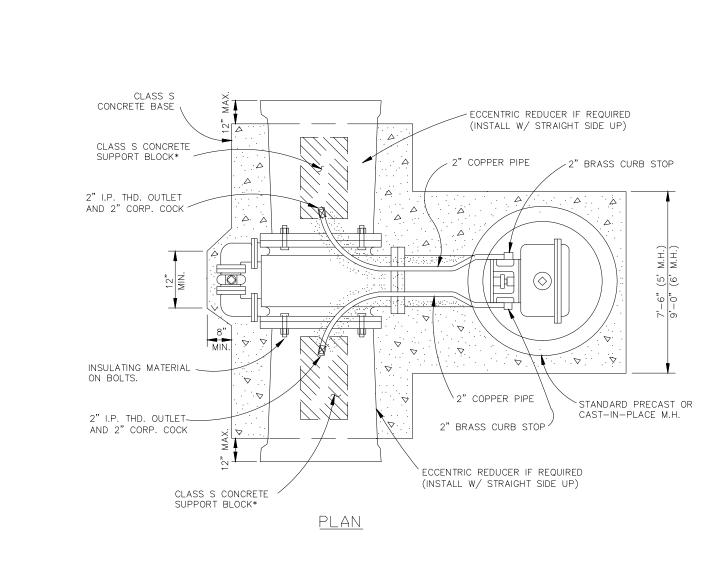
GATE					DIMENSIO	N TA	BLE					
VALVE SIZE	А	В	С	D	E	F	G	Н	J	K	L	М
16" 18" 20"	20" 20" 22"	20" 20" 18"	12" 12" 12"	12" 12" 12"	44 1/2" 51 3/8" 56 5/8"	1" 2" 1"	48" 48" 54"	12" 12" 12"	10" 12" 12"	24" 24" 24"	12" 12" 16"	16" 18" 20"
24" 30"	26" 28"	14" 12"	12" 12"	12" 12"	64 3/8" 80 5/8"	i" 3"	60" 66"	18" 18"	14" 18"	30" 30"	18" 20"	24" 30"

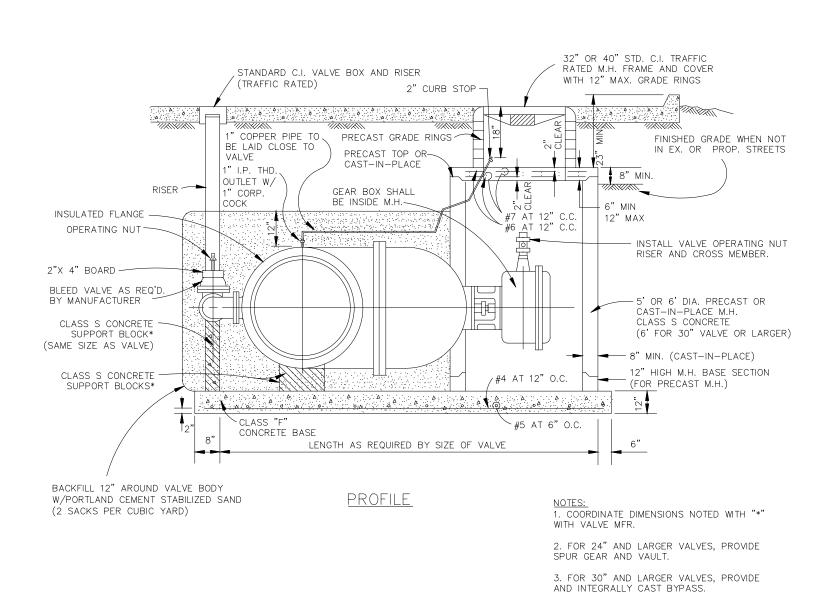
1. POLYURETHANE CUSHION PAD. 2. FOR 24" AND LARGER VALVES, PROVIDE SPUR GEAR AND VAULT. 3. FOR 30" AND LARGER VALVES, PROVIDE AND INTEGRALLY CAST BYPASS. 4. PROVED 2" CORPORATION AND CURB STOPS A MAX. OF 12" FROM EACH END OF GATE VALVE.

NOTES:



VAULT CONSTRUCTION VERTICAL GATE VALVE 24" AND LARGER





VAULT CONSTRUCTION HORIZONTAL GATE VALVE 24" AND LARGER

W106A

ENTERED BY	PROJEC	T #
DESIGNED BY	DATE	REVISION
CHECKED BY		
PROJ. ENGR.		
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W104



W105

W101

STANDARD DETAILS

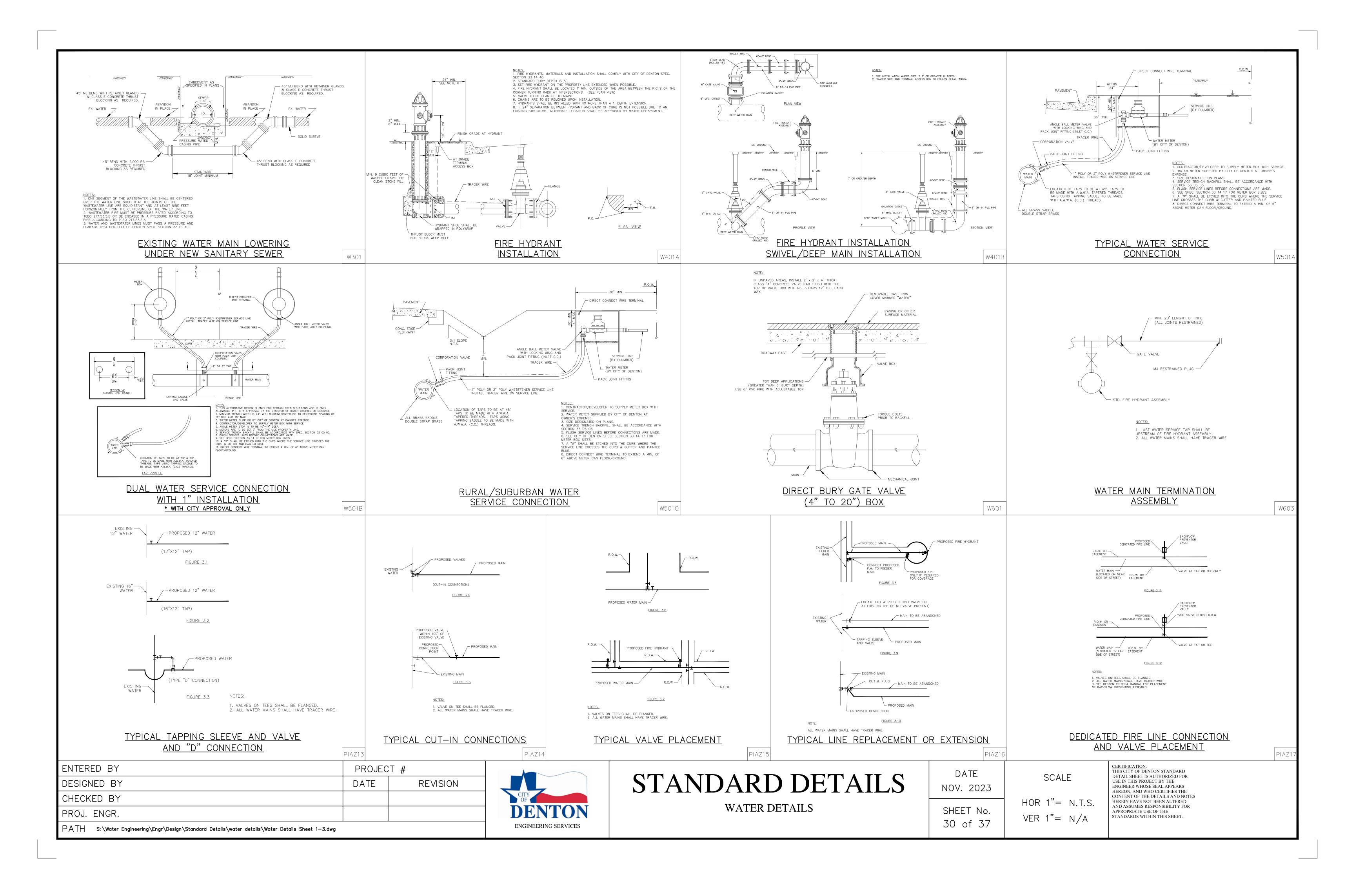
WATER DETAILS

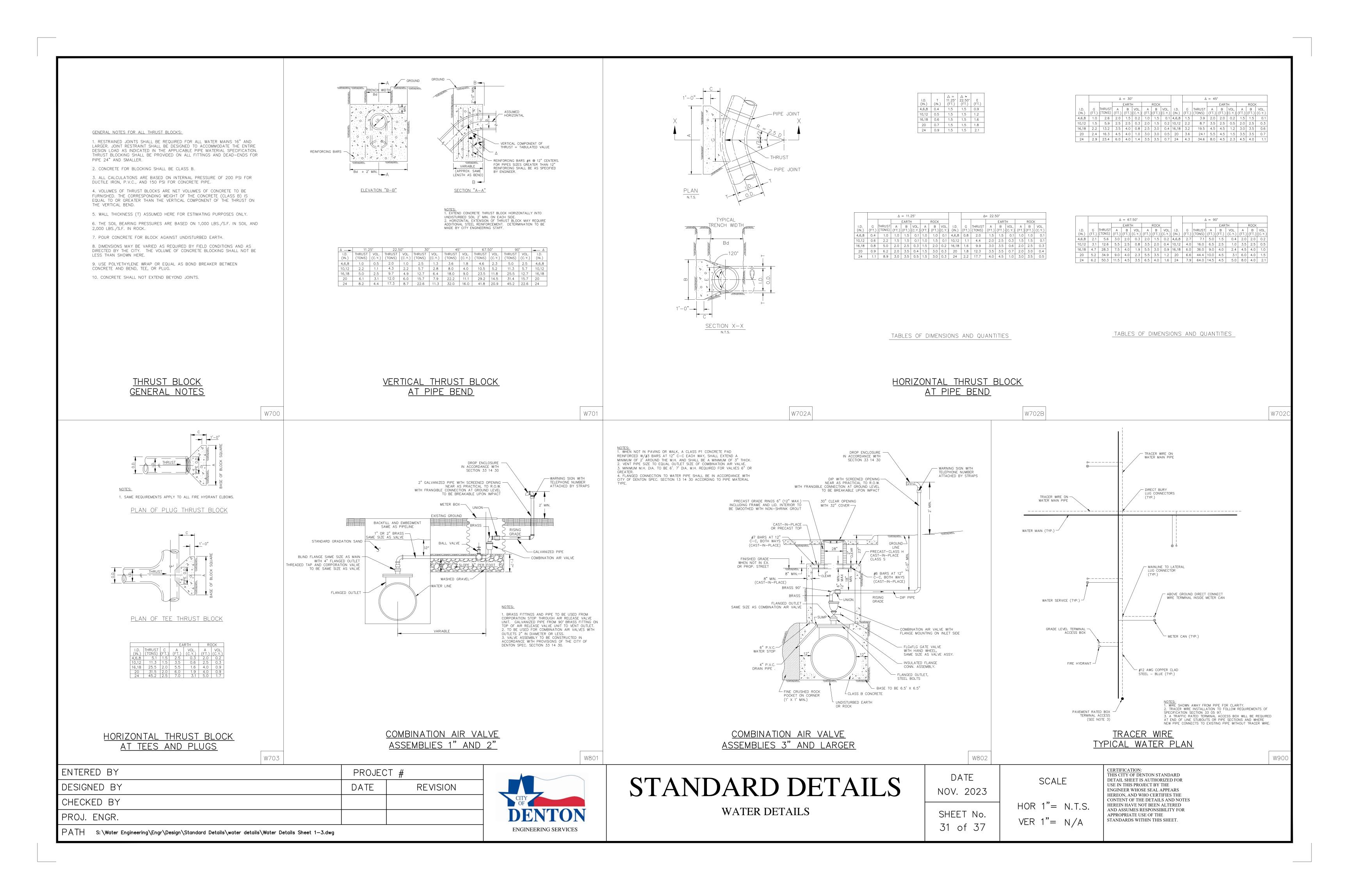
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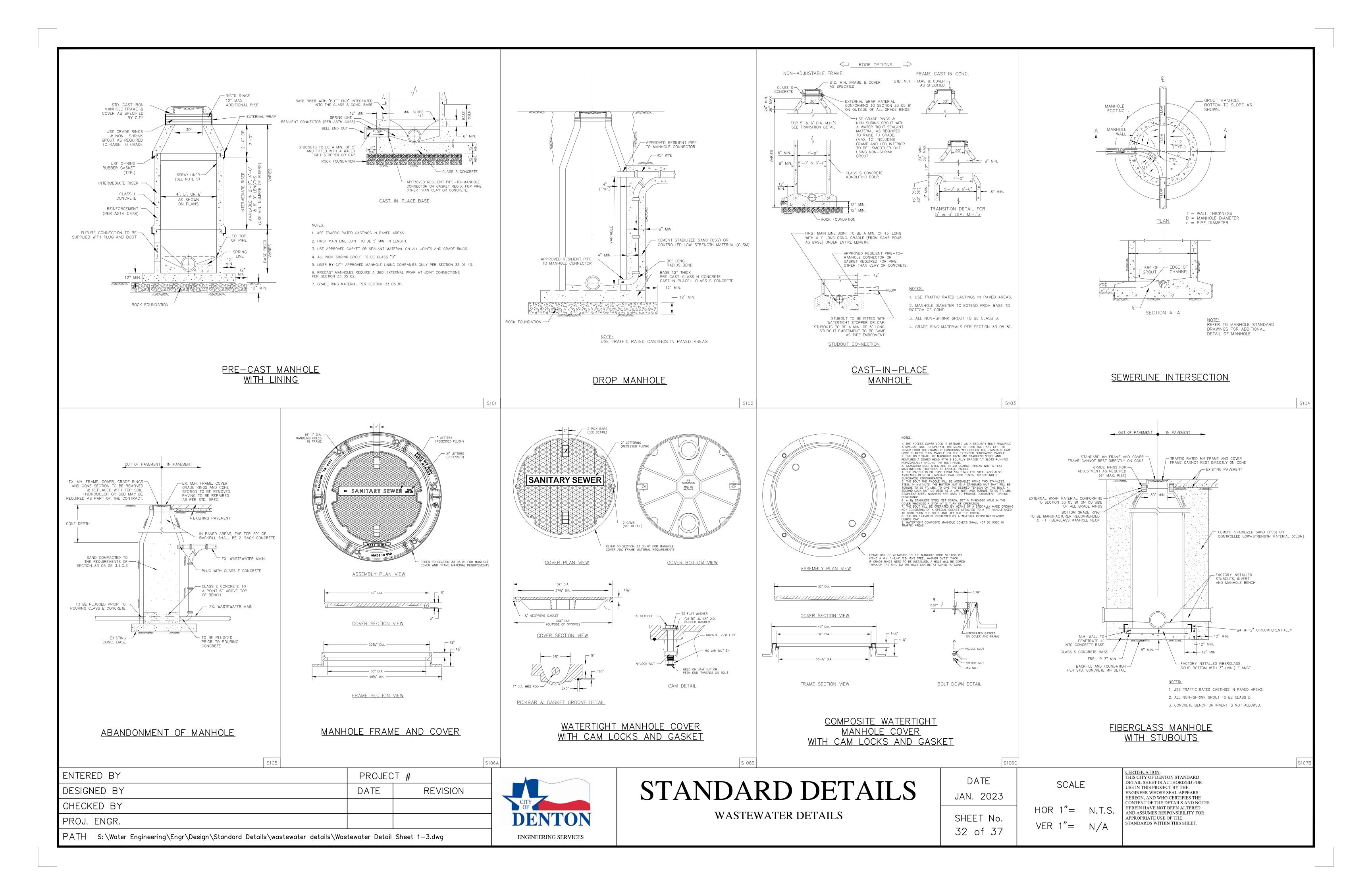
SHEET No. 29 of 37

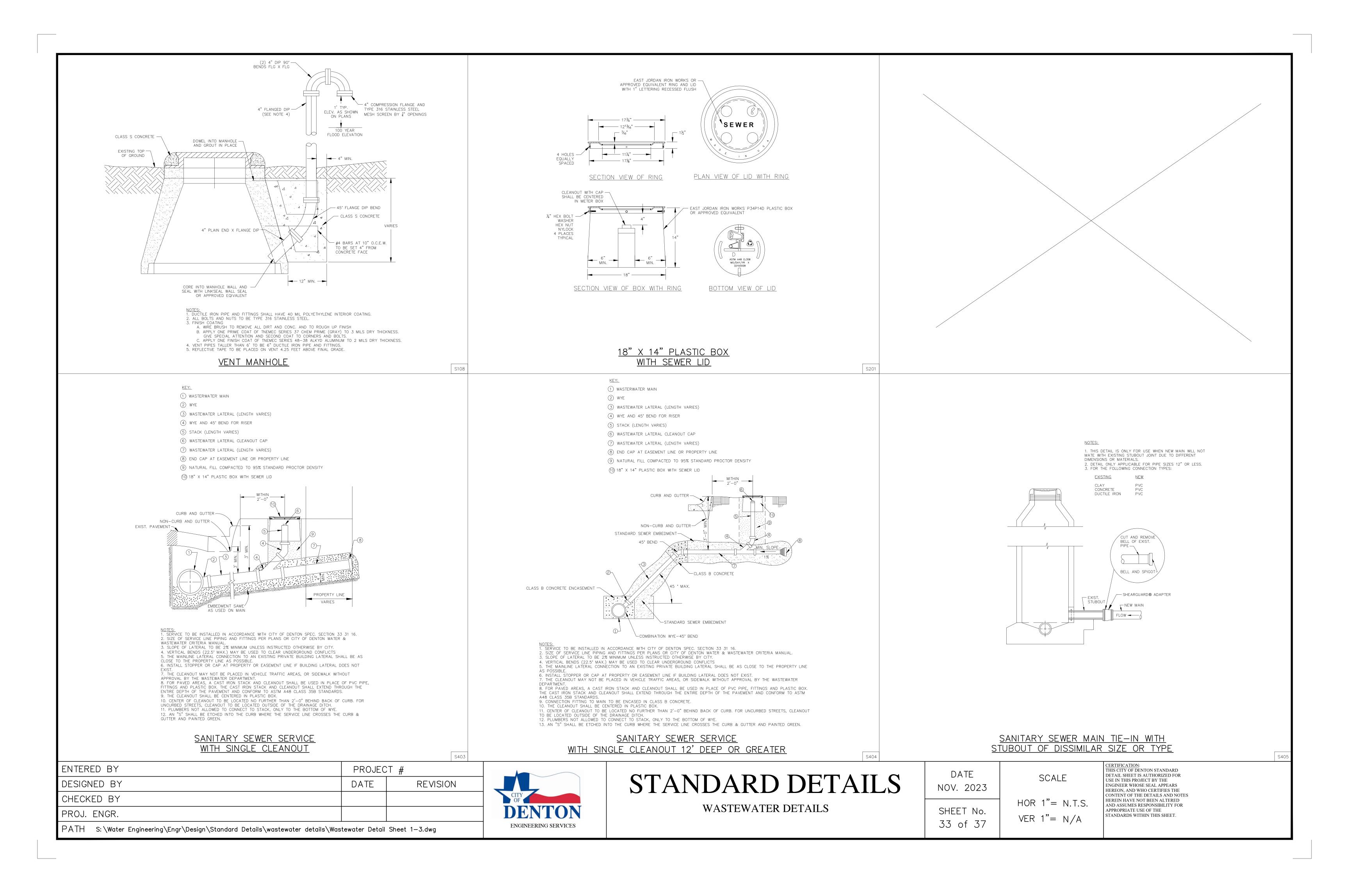
SCALE HOR 1"= N.T.S. APPROPRIATE USE OF THE VER 1"= N/A

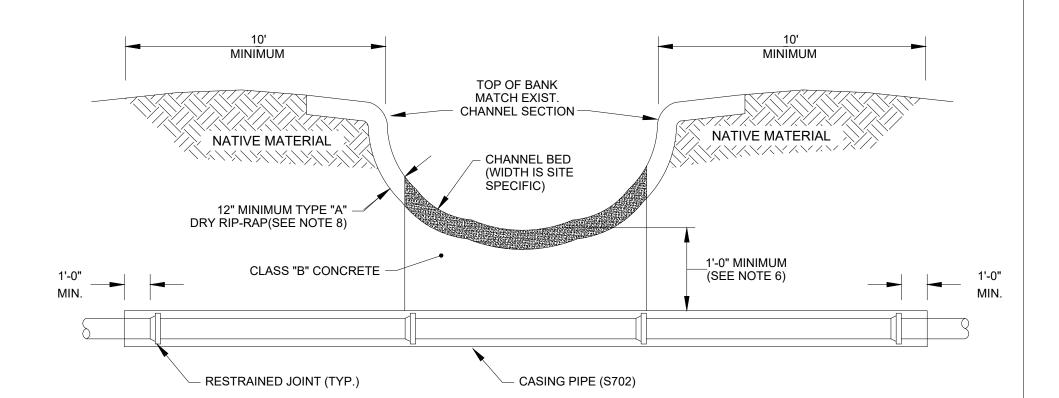
THIS CITY OF DENTON STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS HEREON, AND WHO CERTIFIES THE CONTENT OF THE DETAILS AND NOTES HEREIN HAVE NOT BEEN ALTERED AND ASSUMES RESPONSIBILITY FOR STANDARDS WITHIN THIS SHEET.







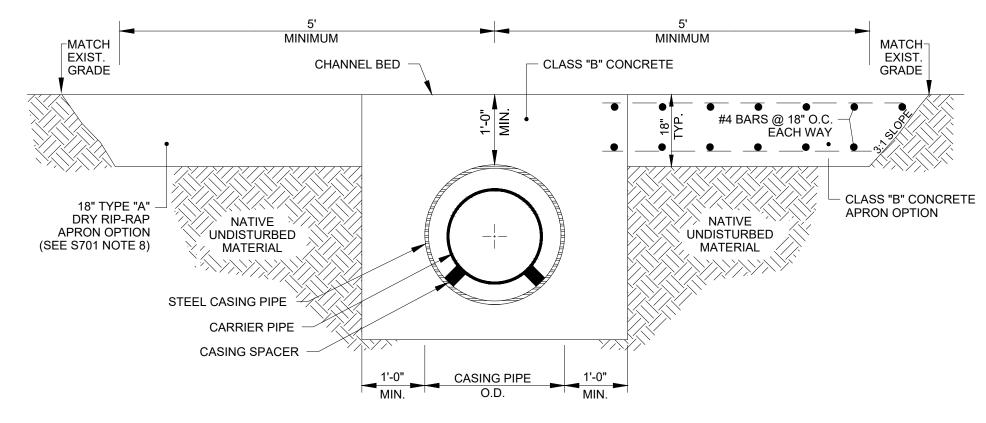




- 1. CROSSING RAMPS (10' WIDE) SHALL BE PROVIDED ON BOTH SIDES OF THE CHANNEL FOR A MOVING TRACTOR TO
- 2. A STORM WATER EROSION CONTROL AND POLLUTION PREVENTION PLAN MUST BE DESIGNED AND IMPLEMENTED TO MITIGATE THE IMPACT OF CONSTRUCTION ACTIVITIES ON THE FEATURE BEING CROSSED.
- 3. PIPE SHOULD BE FULLY RESTRAINED AND PRESSURE RATED AS DETERMINED BY THE ENGINEER.
- 4. ACCESS TO THE BANKS ON EITHER SIDE OF THE CROSSING MUST BE AVAILABLE AS WELL AS ADEQUATE ROOM FOR ASSEMBLY AND EQUIPMENT. BANK GRADE AND STABILITY MUST BE ADEQUATE. A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED TO ASSIST WITH BANK ANALYSIS AND STREAM BED ANALYSIS TO PROVIDE ADDITIONAL DATA AND RECOMMENDATIONS ON THE VIABILITY OF OPEN—CUT VS TRENCHLESS CROSSINGS.

 5. PIPE USED FOR LOW WATER CROSSINGS SHALL BE RESTRAINED FOR A MINIMUM OF 20 FT BEYOND TOP OF BANK
- 6. CASING PIPE IS REQUIRED WHEN DEPTH OF COVER IS LESS THAN 3 FT.
- 7. PLACE STONE RIP-RAP A MINIMUM OF 5 FT UPSTREAM & 5 FT DOWNSTREAM FROM CENTERLINE OF PIPE ALONG LOW WATER CROSSING BED.
- 8. STONES SHALL WEIGH BETWEEN 50 LBS & 150 LBS EACH, AND AT LEAST 60% SHALL WEIGH MORE THAN 100 LBS.
- 9. REFER TO STEEL CASING DETAIL FOR ADDITIONAL PIPE INFORMATION. 10. CHANNEL BED SHALL BE A CLASS B CONCRETE APRON OF TYPE "A" DRY RIP-RAP PER PLANS.

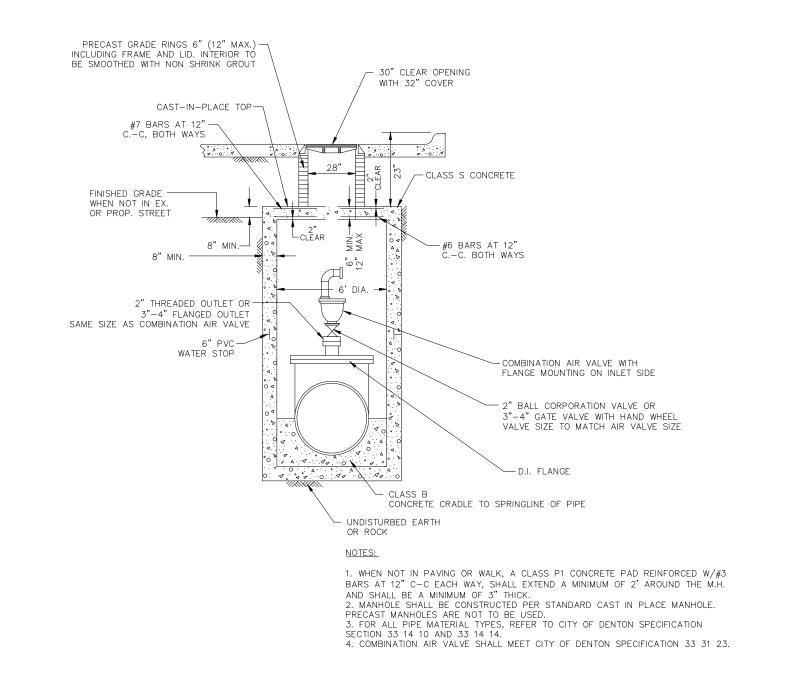
LOW WATER CHANNEL CROSSING DETAIL SECTION I



S701

- 1. RIP-RAP OR CONCRETE IN ACCORDANCE WITH THE DRAWINGS. 2. APRON & PIPE TRENCH MUST HAVE A CONSTANT UPSTREAM TO
- DOWNSTREAM SLOPE TO MATCH PRE-CONSTRUCTION CHANNEL BED.
- 3. FOR CARRIER PIPE LESS THAN 36". 4. REFER TO STEEL CASING DETAIL FOR ADDITIONAL PIPE INFORMATION.

LOW WATER CHANNEL CROSSING DETAIL SECTION II



COMBINATION AIR VALVE

ENTERED BY	PROJEC	CT #	
DESIGNED BY	DATE	REVISION	
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PROJ. ENGR.			
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STANDARD DETAILS

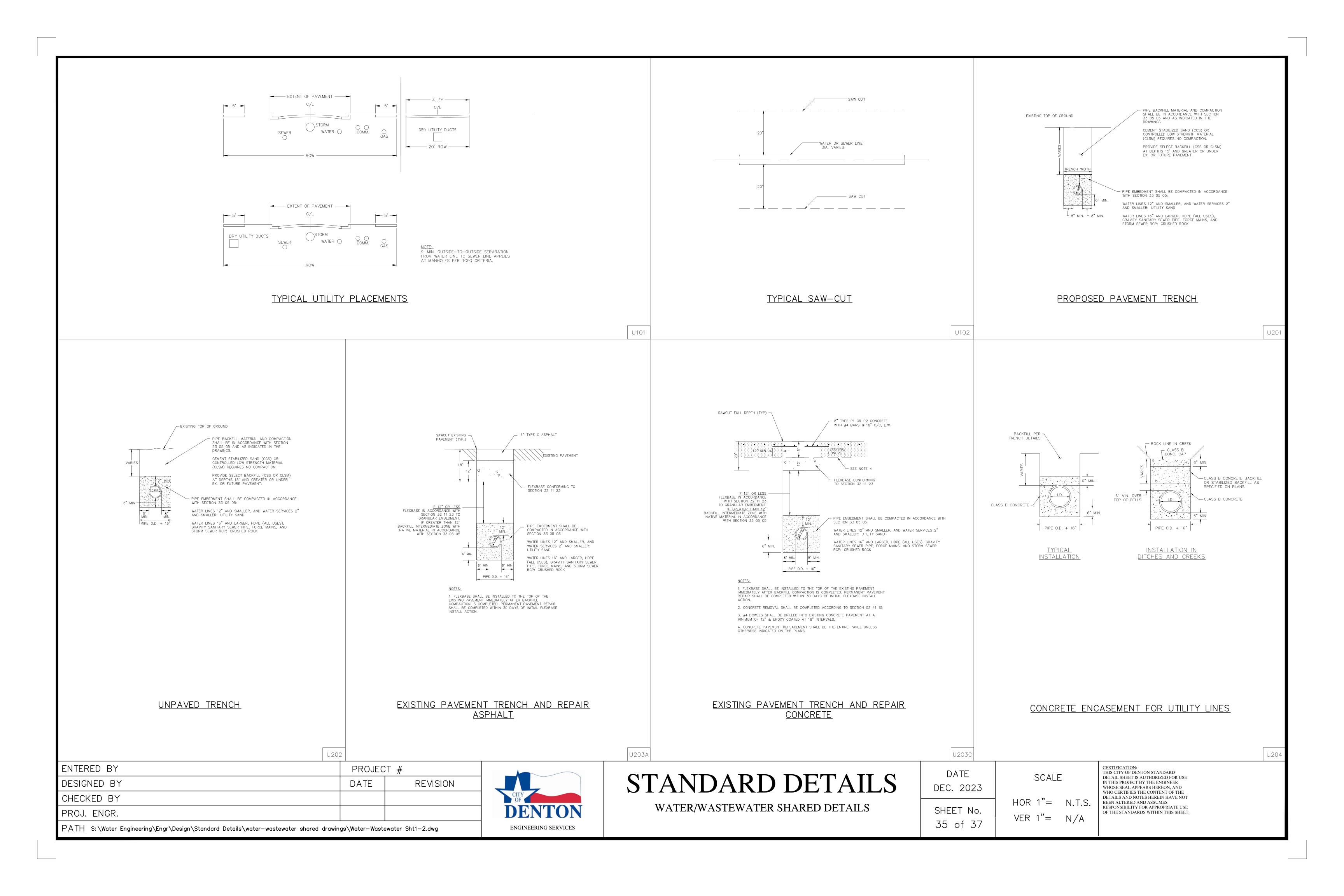
WASTEWATER DETAILS

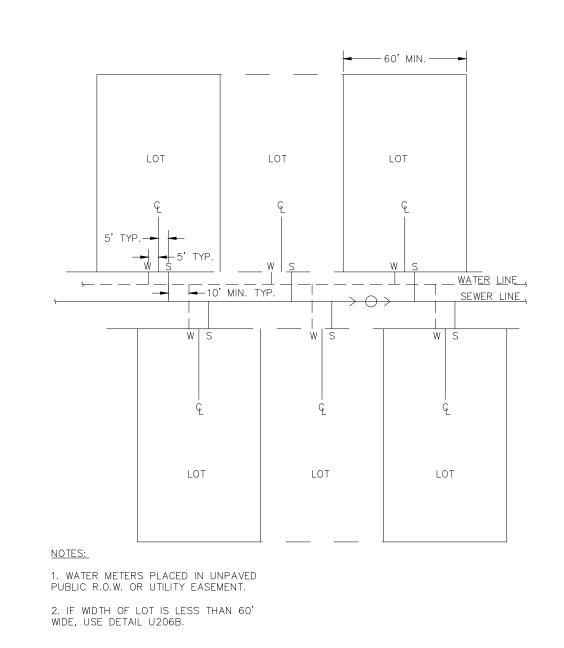
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JAN.	2023

SHEET No. 34 of 37 SCALE

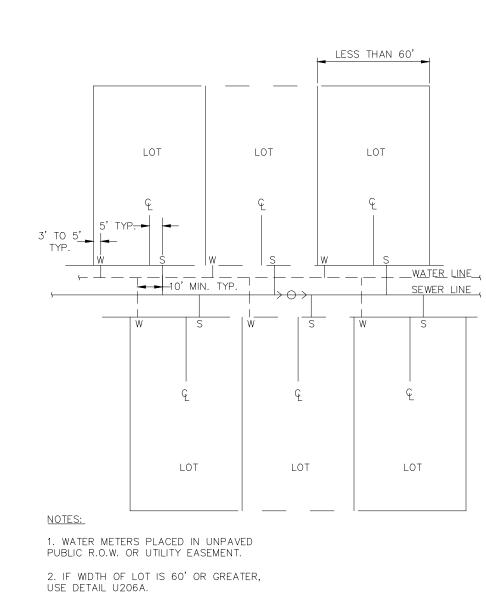
HOR 1"= N.T.S. VER 1"= N/A

CERTIFICATION: THIS CITY OF DENTON STANDARD USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS HEREON, AND WHO CERTIFIES THE AND ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THE STANDARDS WITHIN THIS SHEET.



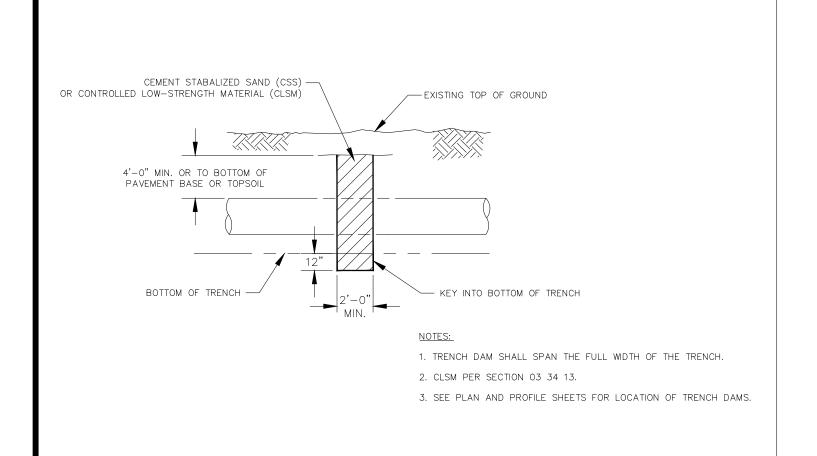


TYPICAL SERVICE LINE LAYOUT

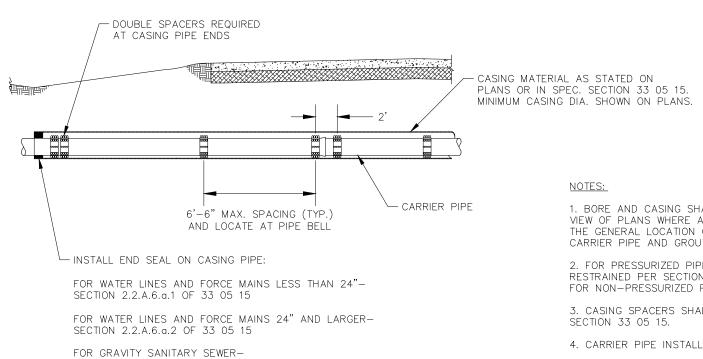


ALTERNATE SERVICE LINE LAYOUT *(FOR LOTS LESS THAN 60' WIDE)

U206A



TRENCH DAM

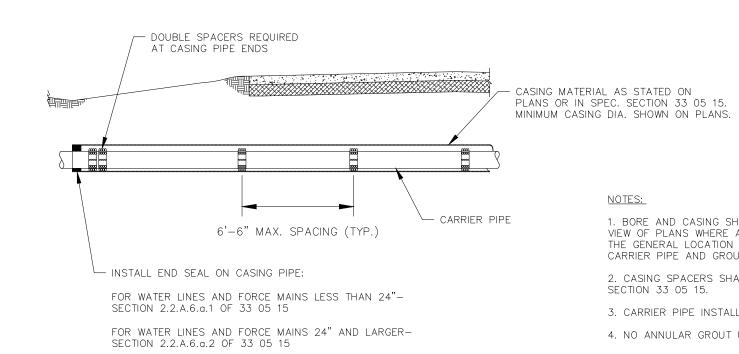


SECTION 2.2.A.6.a.3 OF 33 05 15

1. BORE AND CASING SHALL BE INSTALLED AS SHOWN IN PROFILE VIEW OF PLANS WHERE APPLICABLE. THIS DETAIL ILLUSTRATES THE GENERAL LOCATION OF CASING SPACERS FOR SUPPORTING CARRIER PIPE AND GROUTING ENDS OF CASING PIPE. 2. FOR PRESSURIZED PIPE, ALL INTERIOR JOINTS SHALL BE RESTRAINED PER SECTION 33 05 15. NO RESTRAINT IS REQUIRED FOR NON-PRESSURIZED PIPE. 3. CASING SPACERS SHALL CONFORM TO REQUIREMENTS OF SECTION 33 05 15. 4. CARRIER PIPE INSTALLATION PER SECTION 33 05 15.

5. ANNULAR GROUTING, IF REQUIRED, SHALL BE ACCORDING TO SECTION 33 05 15.

INSTALLATION IN STEEL CASING OR LINER PLATE FOR PVC AND DIP



1. BORE AND CASING SHALL BE INSTALLED AS SHOWN IN PROFILE VIEW OF PLANS WHERE APPLICABLE. THIS DETAIL ILLUSTRATES THE GENERAL LOCATION OF CASING SPACERS FOR SUPPORTING CARRIER PIPE AND GROUTING ENDS OF CASING PIPE. 2. CASING SPACERS SHALL CONFORM TO REQUIREMENTS OF SECTION 33 05 15.

3. CARRIER PIPE INSTALLATION PER SECTION 33 05 15. 4. NO ANNULAR GROUT UNLESS CALLED FOR ON PLAN VIEW.

INSTALLATION IN STEEL CASING OR LINER PLATE FOR HDPE

SCALE

	U207	,	
ENTERED BY		PROJEC	CT #
DESIGNED BY		DATE	REVISION
CHECKED BY			
PROJ. ENGR.			
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STANDARD DETAILS

WATER/WASTEWATER SHARED DETAILS

U208A

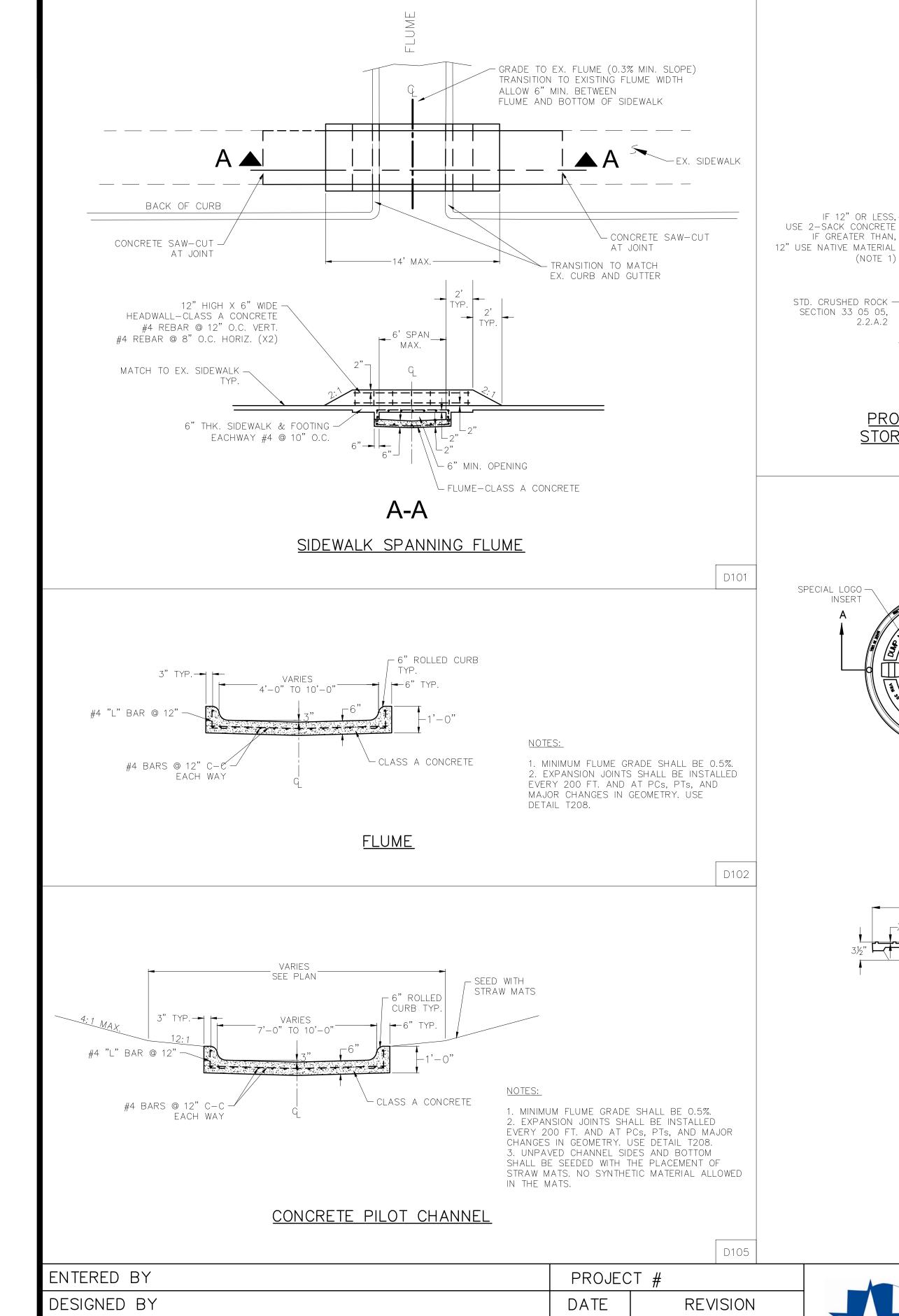
DATE
JAN. 2023
SHEET No.

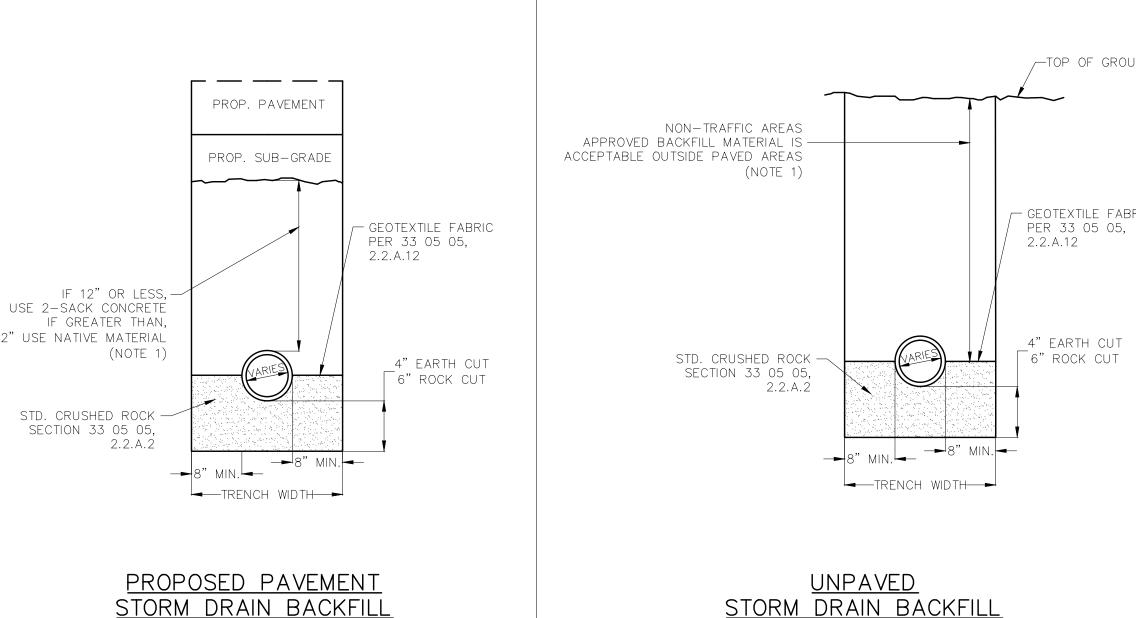
36 of 37

VER 1"= N/A

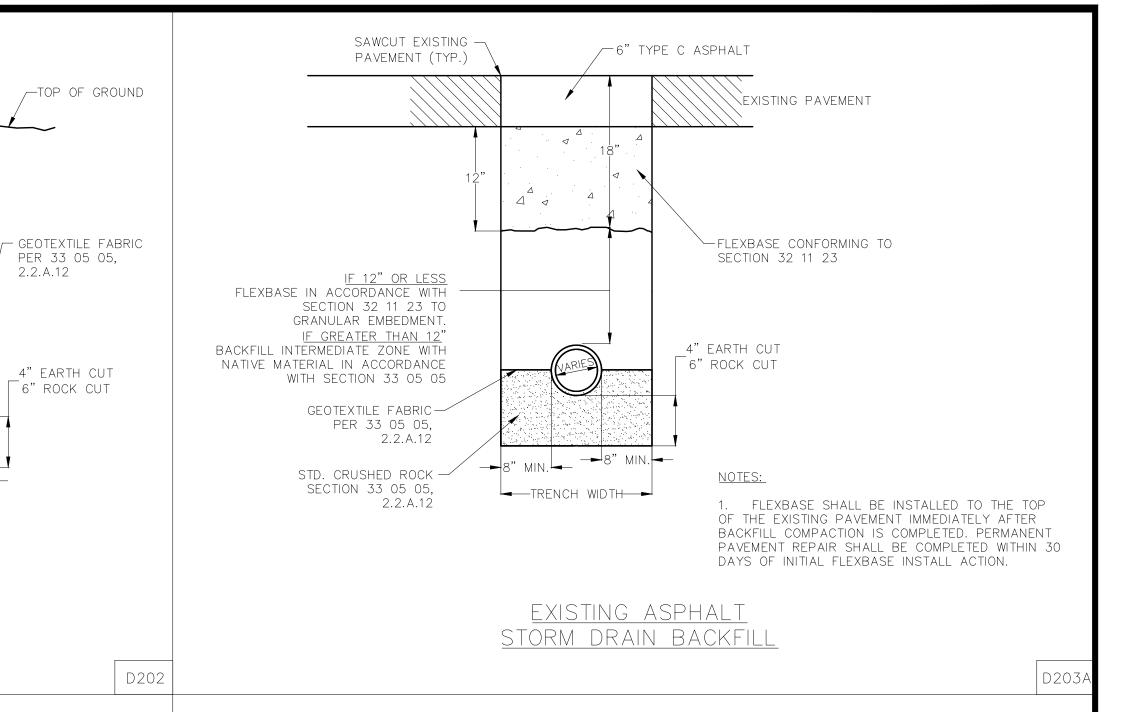
IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS HEREON, AND WHO CERTIFIES THE CONTENT OF THE BEEN ALTERED AND ASSUMES

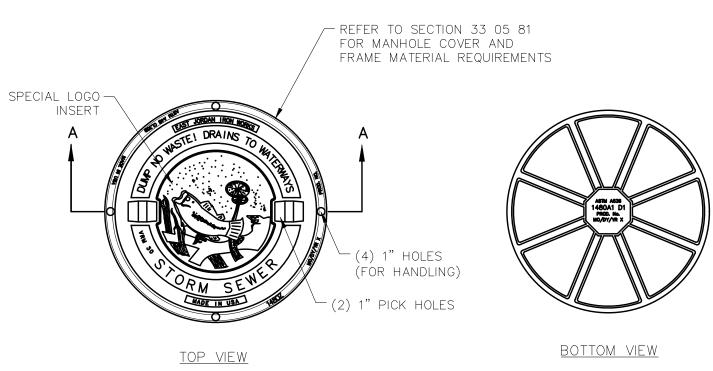
CERTIFICATION:
THIS CITY OF DENTON STANDARD
DETAIL SHEET IS AUTHORIZED FOR USE DETAILS AND NOTES HEREIN HAVE NOT RESPONSIBILITY FOR APPROPRIATE USE OF THE STANDARDS WITHIN THIS SHEET.

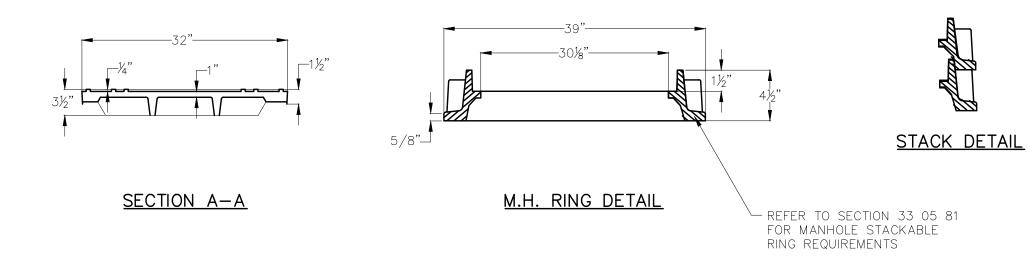




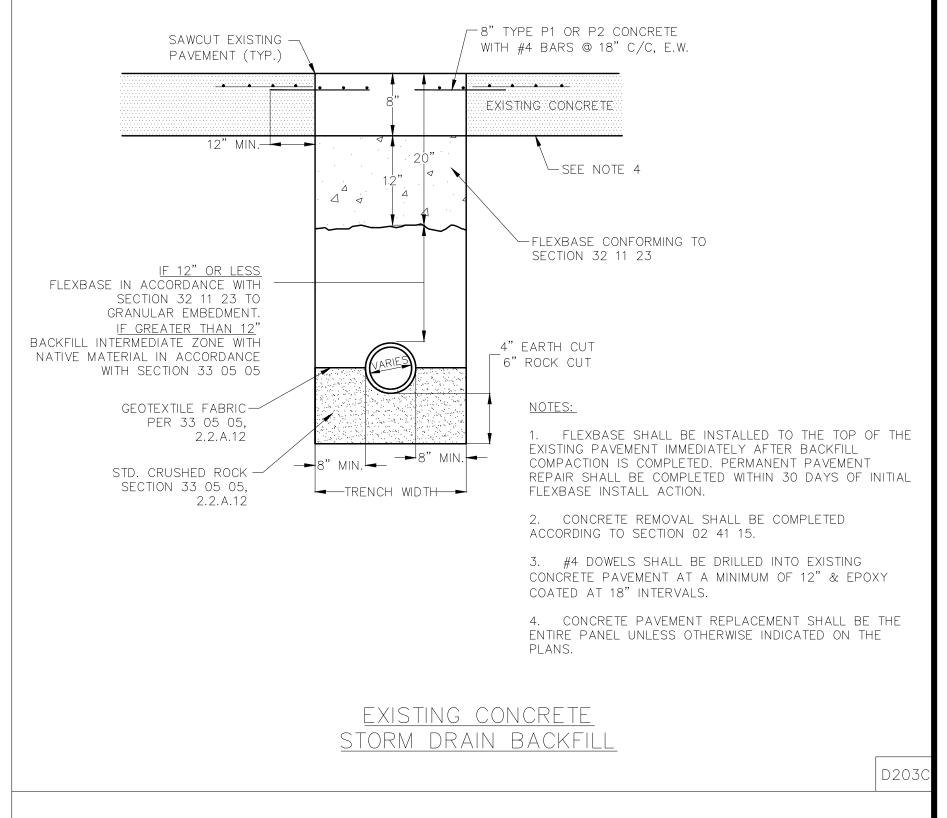
D201







JUNCTION BOX, MANHOLE AND INLET COVER



GENERAL NOTES:

1. COMPACT BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 33 05 05.

SCALE

- 2. HEAVY DUTY MANHOLE COVERS ON JUNCTION BOXES AND MANHOLES ARE REQUIRED IN ALL VEHICLE TRAFFIC
- 3. PIPES SHALL BE RCP CLASS III WITH 2' OR GREATER COVER, RCP CLASS IV WITH 1' TO 2' COVER AND RCP CLASS V WITH LESS THAN 1' COVER. SEE TABLE 1 SECTION 33 42 11.

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DESIGNED BY	DATE	REVISION
CHECKED BY		
PROJ. ENGR.		
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STANDARD DETAILS

STORM DRAINAGE DETAILS

D.A	ATE
DEC.	2023
0.155	

D106

HOR 1"= N.T.S. 37 of 37 VER 1"= N.T.S. CERTIFICATION:
THIS CITY OF DENTON STANDARD
DETAIL SHEET IS AUTHORIZED FOR
USE IN THIS PROJECT BY THE
ENGINEER WHOSE SEAL APPEARS
HEREON, AND WHO CERTIFIES THE
CONTENT OF THE DETAILS AND NOTES
HEREIN HAVE NOT BEEN ALTERED
AND ASSUMES RESPONSIBILITY FOR
APPROPRIATE USE OF THE
STANDARDS WITHIN THIS SHEET.

TXDOT STANDARD **Utility Adjustment for TxDOT Project Comparative Estimate** SUA ESTIMATE City of Denton RCSJ: 1951-01-012 **■**STIMATE INCLUDING BETTERMENT FM 1515 - Utility Relocations **Utility ID#:** U00023607 OCTUAL COST UNUMBER: SUPPLEMENTAL ESTIMATE N/A The cost estimate items must be sufficiently detailed to provide TxDOT with a reasonable basis for analysis. Items should include Percent of Difference 926% appropriate units and unit price for each (See Utility Manual, Chapter 7). Applies to All "EA" or "LS" items. Materials to be purchased by TxDOT - JOINT BID Line Item / Item Description Quantity Sample Steel item to show (*) indication \$ \$ \$ Select this row and Insert to add rows. Drag to fill formulas from top cell. \$ \$ \$ SUBTOTAL \$ Internally Supplied Materials - documented with Certified Ledger at Payment Line Item / Item Description Quantity \$/Unit Difference Total Unit Total Tapping Sleeve & Valve Connection (12") \$ \$18,000,00 \$ 18 000 00 18 000 00 FΑ Select this row and Insert to add rows. Drag to fill formulas from top cell. \$ OVERHEAD (%) Enter % if applicable 0.00% \$ 0.00% SUBTOTAL \$ SUBTOTAL \$ 18,000.00 Externally Acquired Materials - documented with Invoices and/or Checks Quantit Line Item / Item Description \$/Unit Total Unit \$/Unit Total Difference Steel Casing by Open Cut (12") \$ ΙF \$400.00 \$ 9,600.00 24 9.600.00 Steel Casing by Bore (12") \$ 1 F 390 \$655.00 \$ 255,450.00 255,450.00 Steel Casing by Open Cut (18") 173 \$420.00 72,660.00 72.660.00 Steel Casing by Bore (18") I F 83 \$760.00 63,080.00 63 080 00 \$ \$ 32,850.00 Steel Casing by Open Cut (20") \$ 1 F 73 \$450.00 \$ 32.850.00 Steel Casing by Bore (20") 178 142,400.00 LF \$800.00 142,400,00 \$ \$ Steel Casing by Open Cut (24") ΙF 136 \$550.00 \$ 74.800.00 I F 283 \$550.00 \$ 155,650.00 80.850.00 Steel Casing by Bore (24") LF 108 \$820.00 \$ 88,560.00 LF 252 \$820.00 \$ 206,640.00 118,080.00 HDPE Water Main in Casing (8") 41.400.00 \$ ΙF 414 \$100.00 \$ 41 400 00 28,160.00 HDPE Water Main in Casing (12") \$ LF 256 \$110.00 28.160.00 HDPE Water Main in Casing (16") \$ LF 291 \$150.00 43.650.00 43.650.00 \$ Sanitary Sewer Gravity Main in Casing (12") \$ 1 F 251 \$110.00 \$ 27,610.00 27,610.00 Sanitary Sewer Gravity Main in Casing (15") 244 \$120.00 \$ 29,280.00 ΙF 244 \$120.00 29,280.00 \$ 19.000.00 Concrete Manhole (5' ID) (0'-6' Deep) FΑ 3 \$19.000.00 \$ 57,000.00 FΑ 4 \$19,000.00 \$ 76,000.00 VF VF Extra Concrete Manhole Depth 15 \$800.00 \$ 12,000.00 23 \$800.00 \$ 18,400.00 6.400.00 External Drop for Manhole FΑ \$14 000 00 \$ 14 000 00 14 000 00 \$ 1 \$ EΑ \$60,000.00 60,000.00 60,000.00 Double Detector Check Valve Vault \$ Fiberglass Manhole (5' ID) \$ EΑ 2 \$40,000.00 \$ 80,000.00 80,000.00 Extra Fiberglass Manhole Depth \$ VF 34 \$900.00 30,600.00 30.600.00 \$ PVC Water Main (8") 45 \$250.00 11.250.00 11.250.00 PVC Water Main (12") \$ 16 500 00 1 F 55 \$300.00 \$ 16 500 00 HDPE Water Main (8") 1 F 115 \$260.00 29,900.00 \$ \$ 29.900.00 HDPE Water Main (12") LF 83 \$310.00 25,730.00 25,730.00 HDPE Water Main (16") \$ 1 F 6825 \$260.00 \$ 1,774,500.00 1.774.500.00 Gate Valve (8") \$ EΑ 3 \$8,000.00 24,000.00 24,000.00 FΑ Gate Valve (12") 3 30,000,00 \$ \$10,000,00 \$ 30 000 00 Gate Valve (16") EΑ 12 \$21,000.00 252.000.00 252,000.00 Fire Hydrant Assembly \$ EΑ 8 \$16.000.00 \$ 128,000.00 128.000.00 Sanitary Sewer Gravity Main (12") \$ 1 F 101 \$300.00 \$ 30,300.00 30,300.00 Sanitary Sewer Gravity Main (15") \$310.00 54,560.00 \$310.00 54,560.00 Insertion Valve (8") \$ FΑ \$1,500.00 \$ 3.000.00 3.000.00 Select this row and Insert to add rows. Drag to fill formulas from top cell. \$ SUBTOTAL SUBTOTAL \$ 316 200 00 \$ 3.767.170.00 3 450 970 00 MATERIALS SUBTOTAL \$ 316,200.00 3,785,170.00 MATERIALS SUBTOTAL Indicated items are being tracked for BUY AMERICA COMPLIANCE and will be documented using Form 1818 and all supporting documentation prior to installation X Indicated items are IRON or STEEL, but will not be tracked for BUY AMERICA COMPLIANCE due to falling under the DE MINIMUS of \$2,500, or .1% of the project \$0.00 Minimus Items total cost, whichever is greater TxDOT contractor labor - JOINT BID Line Item / Item Description Unit Quantity \$/Unit Total Unit Quantity \$/Unit Total Difference Sample Item \$ \$ \$ Select this row and Insert to add rows. Drag to fill formulas from top cell. \$ \$ \$ SUBTOTAL \$ SUBTOTAL \$0.00 Internal Labor Costs - documented with Certified Ledger at payment. Line Item / Item Description \$/Unit Total Unit Quantity \$/Unit Total Difference \$ \$ Select this row and Insert to add rows. Drag to fill formulas from top cell. \$ \$ OVERHEAD (%) 0.00% 0.00% SUBTOTAL \$ SUBTOTAL \$ External Labor Costs - documented with Invoices and / or checks Line Item / Item Description Unit Quantity \$/Unit Total Unit Quantity \$/Unit Difference Total SWPPP \$ LS \$3,000.00 \$ 3,000.00 Project Signs \$ EΑ \$1,000.00 \$ 2,000.00 2.000.00 Mobilization LS 400 000 00 \$ 1 \$400,000,00 \$ 400 000 00 Remove Utility Manhole EΑ \$2,500.00 \$ 7.500.00 EΑ 4 \$2,500.00 10.000.00 2.500.00 Remove Fire Hydrant, Lead Line & Valve \$ EΑ 22,000.00 10 \$2,200.00 \$ 22.000.00 Remove Water Valve \$ EΑ 10 \$1,500.00 \$ 15,000.00 15,000.00 Site Clearing LS \$40,000.00 40,000.00 SWPPP Device Installation LS \$ \$35,000.00 35.000.00 35 000 00 SWPPP Device Removal \$ LS 1 \$3,000.00 \$ 3,000.00 3.000.00 Asphalt Pavement Repair for Utility Trench SY 28 4.200.00 \$ \$150.00 4.200.00

Concrete Pavement Repair for Utility Trench			\$ -	SY	60	\$200.00	\$	12,000.00	\$ 12,000.00
Concrete Flume Repair			\$ -	SY	9	\$250.00	\$	2,250.00	\$ 2,250.00
Seeding Turf Grass			\$ -	SY	15907	\$3.00	\$	47,721.00	\$ 47,721.00
Block Sod			\$ -	SY	1767	\$11.00	\$	19,437.00	\$ 19,437.00
Excavation Protection L	.F 312	\$1.00	\$ 312.00	LF	7953	\$1.00	\$	7,953.00	\$ 7,641.00
Locate Existing Utilities			\$ -	LS	1	\$60,000.00	\$	60,000.00	\$ 60,000.00
Water Service Connection (2")			\$ -	EA	2	\$7,000.00	\$	14,000.00	\$ 14,000.00
Connection to Existing Main (8")			\$ -	EA	6	\$23,000.00	\$	138,000.00	\$ 138,000.00
Connection to Existing Main (12")			\$ -	EA	2	\$24,000.00	\$	48,000.00	\$ 48,000.00
Connection to Existing Main (16")			\$ -	EA	2	\$28,000.00	\$	56,000.00	\$ 56,000.00
Traffic Control Devices			\$ -	MO	9	\$2,500.00	\$	22,500.00	\$ 22,500.00
Traffic Control Plan			\$ -	EA	3	\$1,000.00	\$	3,000.00	\$ 3,000.00
								ŕ	
Select this row and Insert to add rows. Drag to fill formulas fr	rom top cell.		\$ -				\$	-	\$ -
ů	'	SUBTOTAL	\$ 7,812.00			SUBTOTAL	\$	965,061.00	\$ 957,249.00
17	ABOR SUBTOTA	\	7,812.00				\$	965,061.00	\$ 957,249.00
		-\L φ	7,612.00				φ	903,001.00	φ 957,249.00
Engineering Procured by TxDOT - 100% eligibility require									
Line Item / Item Description U	nit Quantity	/ \$/Unit	Total	Unit	Quantity	\$/Unit		Total	Difference
			\$ -				\$	-	\$ -
Select this row and Insert to add rows. Drag to fill formulas fr	rom top cell.		\$ -				\$	-	\$ -
		SUBTOTAL	\$ -			SUBTOTAL	\$	-	\$ -
Internal Engineering - Costs Documented with Certified I	•								
	nit Quantity		Total	Unit	Quantity	\$/Unit		Total	Difference
	R 216	\$72.07	\$ 15,567.12	HR	1080	\$72.07	\$	77,835.60	\$ 62,268.48
	R 135	\$75.67	\$ 10,215.45	HR	675	\$75.67	\$	51,077.25	\$ 40,861.80
Select this row and Insert to add rows. Drag to fill formulas fr	rom top cell.		\$ -				\$	-	\$ -
		SUBTOTAL	\$ 25,782.57			SUBTOTAL	\$	128,912.85	\$ 103,130.28
Internal Survey / Landman									
	R 135	\$68.63	\$ 9,265.05	HR	675	\$68.63	\$	46,325.25	\$ 37,060.20
<u> </u>	R 189	\$49.54	\$ 9,363.06	HR	945	\$49.54	\$	46,815.30	\$ 37,452.24
Select this row and Insert to add rows. Drag to fill formulas fr	rom top cell.		\$ -				\$	-	\$ -
		SUBTOTAL	\$ 18,628.11			SUBTOTAL	\$	93,140.55	\$ 74,512.44
Internal Inspection									
	R 324	\$40.95	\$ 13,267.80	HR	1620	\$40.95	\$	66,339.00	\$ 53,071.20
Select this row and Insert to add rows. Drag to fill formulas fr	rom top cell.		\$ -				\$	-	\$ -
		SUBTOTAL	\$ 13,267.80			SUBTOTAL	\$	66,339.00	\$ 53,071.20
Internal Administration									
	IR 108	\$56.46	\$ 6,097.68	HR	540	\$56.46	\$	30,488.40	\$ 24,390.72
	R 300	\$52.49	\$ 15,747.00	HR	300	\$52.49	\$	15,747.00	\$ -
Select this row and Insert to add rows. Drag to fill formulas fr	rom top cell.		\$ -				\$	-	\$ -
		SUBTOTAL	\$ 21,844.68			SUBTOTAL	\$	46,235.40	\$ 24,390.72
Internal Engineering/ Survey/ Inspection/ Administration									
OVERHEAD (%) Er	nter % if applicab		\$ -			0.00%	\$	-	\$ -
		SUBTOTAL	\$ 79,523.16				\$	334,627.80	\$ 255,104.64
External Engineering - Cost documented with INVOICES									
Line Item / Item Description U	nit Quantity	/ \$/Unit	Total	Unit	Quantity	\$/Unit		Total	Difference
			\$ -				\$	-	\$ -
Select this row and Insert to add rows. Drag to fill formulas fr	rom top cell.		\$ -				\$	-	\$ -
		SUBTOTAL	\$ -			SUBTOTAL	\$	-	\$ -
External Survey/ Landman									
	A 1	\$50,000.00	\$ 50,000.00	EA	1	\$50,000.00	\$	50,000.00	\$ -
Select this row and Insert to add rows. Drag to fill formulas fr							\$		\$ -

External Inspection Facility				SUBTOTAL	\$	50,000.00			SUBTOTAL	\$	50,000.00	\$	-
Select this row and Insert to add rows. Drag to fill formulas from top cell. \$ 70,000,000	External Inspection												
SUBTOTAL \$ 70,000.00 \$ 20,000.00 \$ 210,000.00 \$ 20,000.00 \$			1	\$70,000.00	\$	70,000.00	EA	1	\$280,000.00	\$	280,000.00		210,000.00
Existing Easement Compensation - following Quit Claim / Eligibility Ratio not applied. Line Item / Item Description Unit Quantity \$/Unit Total Unit Quantity \$/Unit \$/Unit Quantity \$/Unit \$/Unit \$/Unit Quantity \$/Unit Quan	Select this row and Insert to add rows.	Drag to fill formulas from to	op cell.			-					-		-
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Line Item / Item Description		Engineering / Administra	ation / Inspe	ection SUBTOTAL	\$	199,523.16				\$	664,627.80	\$	465,104.64
Select this row and Insert to add rows. Drag to fill formulas from top cell. S	Existing Easement Compensation - folk	lowing Quit Claim / Eligibili	ity Ratio no	ot applied.		Will							
Subtroom	Line Item / Item Description	Unit	Quantity	y \$/Unit		Total	Unit	Quantity	\$/Unit		Total		Difference
Subtroom					\$	-				\$	-	\$	-
Replacement Easement Compensation - following Quit Claim / Eligibility Ratio is applied. ROW	Select this row and Insert to add rows.	Drag to fill formulas from to	op cell.		\$	-				\$	-	\$	-
PM must concur with rate. Documentation of actual cost must be supplied at billing: Stevenson Property					\$	-			SUBTOTAL	\$		\$	-
VINT						ROW							
Victor Technologies EA 1 \$732.00 \$ 732.00 \$			1		-			1		_			-
Select this row and Insert to add rows. Drag to fill formulas from top cell. \$ -			1	, ,		,		1		-	,	_	-
Select this row and Insert to add rows. Drag to fill formulas from top cell. SUBTOTAL \$ 4,888.25 \$ SUBTOTAL \$ 4,888.25 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$	Victor Technologies	EA	1	\$732.00		732.00	EA	1	\$732.00	-	732.00		
SUMMARY: TOTAL PROJECT COST \$ 528,423.41 \$ 5,419,747.05 \$ 4,891,323.64 \$ 5,419,747.05 \$ 4,891,	0.1.111	D			т —	-					-		
SUMMARY: TOTAL PROJECT COST \$ 528,423.41 \$ 5,419,747.05 \$ 4,888.25 \$ 5,419,747.05 \$ 4,891,323.64 SUMMARY: TOTAL PROJECT COST \$ 528,423.41 \$ 5,419,747.05 \$ 4,891,323.64 Amount Payable in TxDOT Contract (Joint Bid) \$ 528,423.41 \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ 528,423.41 \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ 528,423.41 \$ 528,423.41 \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ 528,423.41 \$ 528,423.41 \$ 5,419,747.05 \$ 4,891,323.64 Amount Due to TxDOT Via an Advance Funding Agreement \$ 5 \$ 5,419,747.05 \$ 4,891,321.71 \$ 528,423.41 \$ 90.25% \$ 4,891,321.71 \$ 4,891,321.71 \$ 4,891,321.71 \$ 528,423.41	Select this row and Insert to add rows.	Drag to fill formulas from to	op cell.	CURTOTAL		4 000 05			CURTOTAL		4 000 05		-
SUMMARY: TOTAL PROJECT COST \$ 528,423.41 \$ 5,419,747.05 \$ 4,891,323.64 Amount Payable in TxDOT Contract (Joint Bid) \$ - \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ - \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ - \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ - \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ - \$ 5,419,747.05 \$ 4,891,323.64 General & Administrative OH 0.00% \$ - \$ 5,419,747.05 \$ 4,891,323.64 Amount Due to TxDOT Via an Advance Funding Agreement \$ - BR 90.00% \$ - \$ - \$ - SALVAGE and/or Depreciation CREDIT BR 90.25% \$ 4,891,321.71 \$ 4,891,321.71 \$ 4,891,321.71 \$ 4,891,321.71 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423.41 \$ 528,423					Þ					Ф	,	<u> </u>	
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General & Administrative OH 0.00% \$ G&A 0.00% \$ \$ \$ \$ \$ \$		<u> </u>	TOTAL PF	ROJECT COST	<u> </u>				\$	÷		\$ 4	1,891,323.64
Gross Reimbursable to the Utility \$ 528,423.41 \$ \$ 5,419,747.05 \$ 4,891,323.64 \$.		<u> </u>	TOTAL PF	ROJECT COST	\$	528,423.41			\$	\$	5,419,747.05	\$ 4	-
Amount Due to TXDOT Via an Advance Funding Agreement \$ - \$ \$		<u> </u>	TOTAL PF	ROJECT COST	\$	528,423.41			\$	\$	5,419,747.05	\$ 4	-
SALVAGE and/or Depreciation CREDIT BETTERMENT RATIO Ratio Deduction \$ - BR 90.25% \$ 4,891,321.71 \$ 4,891,321.71 Amount reimbursable after Betterment and Salvage Credit \$ 528,423.41 ELIGIBILITY RATIO 4.46% ER 4.46% NET REIMBURSEMENT TO UTILITY \$ 23,567.68 Percent of Difference= 926%	SUMMARY:	Amount Payable in T	TOTAL PF	ROJECT COST	\$	528,423.41	G&A	0.00%	\$	\$	5,419,747.05	\$ 4	-
BETTERMENT RATIO	SUMMARY:	Amount Payable in T	TOTAL PF	ROJECT COST stract (Joint Bid) Utility Cost	\$	528,423.41	G&A	0.00%	\$	\$	5,419,747.05 - 5,419,747.05 -	\$ 4 \$ \$ 4	- I,891,323.64 -
Amount reimbursable after Betterment and Salvage Credit \$ 528,423.41 \$ 528,425.34 \$ 1.93 ELIGIBILITY RATIO 4.46% ER 4.46% NET REIMBURSEMENT TO UTILITY \$ 23,567.68 \$ Percent of Difference= 926%	SUMMARY: General & Admin	Amount Payable in T nistrative OH 0.00% Gross	TOTAL PF TxDOT Con Reimbursa	ROJECT COST stract (Joint Bid) Utility Cost	\$ \$ \$	528,423.41	G&A	0.00%]	\$ \$ \$	5,419,747.05 - 5,419,747.05 -	\$ 4 \$ \$ 4	- I,891,323.64 -
ELIGIBILITY RATIO 4.46% ER 4.46% \$ 23,567.77 \$ 0.09 Percent of Difference= 926%	SUMMARY: General & Admin	Amount Payable in T nistrative OH Gross at Due to TxDOT Via an Adv	TOTAL PF TXDOT Con Reimbursa vance Func	ROJECT COST stract (Joint Bid) Utility Cost ble to the Utility	\$ \$ \$	528,423.41	G&A	0.00%		\$ \$ \$	5,419,747.05 - 5,419,747.05 -	\$ 4 \$ \$ 4 \$ \$ 4	- I,891,323.64 -
NET REIMBURSEMENT TO UTILITY \$ 23,567.68 \$ 23,567.77 \$ 0.09 Percent of Difference= 926%	SUMMARY: General & Admin	Amount Payable in T nistrative OH Gross t Due to TxDOT Via an Adv SALVAGE an	TOTAL PF EXPOT Con Reimbursa vance Func d/or Depree	ROJECT COST thract (Joint Bid) Utility Cost ble to the Utility ding Agreement ciation CREDIT	\$ \$ \$	528,423.41]	\$ \$ \$	5,419,747.05 - 5,419,747.05 - 5,419,747.05	\$ 4 \$ \$ 4 \$ \$ 4	- - - - - - - - - - - - - - - - - - -
Percent of Difference= 926%	SUMMARY: General & Admin Amount BETTERM	Amount Payable in T nistrative OH 0.00% Gross It Due to TxDOT Via an Adv SALVAGE an	TOTAL PF EXDOT Con Reimbursa vance Func d/or Depres	ROJECT COST thract (Joint Bid) Utility Cost ble to the Utility ding Agreement ciation CREDIT Ratio Deduction	\$ \$ \$ \$	528,423.41 - 528,423.41 - 528,423.41 -				\$ \$ \$	5,419,747.05 - 5,419,747.05 - 5,419,747.05 - 4,891,321.71	\$ 4 \$ \$ 4 \$ \$ 4 \$ \$ 4	1,891,323.64 1,891,323.64 1,891,323.71
	SUMMARY: General & Admin Amount BETTERM Amou	Amount Payable in Tonistrative OH 0.00% Gross Int Due to TxDOT Via an Adv SALVAGE and MENT RATIO unt reimbursable after Bette	TOTAL PF ExDOT Con Reimbursa vance Func d/or Depre	ROJECT COST thract (Joint Bid) Utility Cost ble to the Utility ding Agreement ciation CREDIT Ratio Deduction	\$ \$ \$ \$	528,423.41 - 528,423.41 - 528,423.41 -	BR	90.25%		\$ \$ \$	5,419,747.05 - 5,419,747.05 - 5,419,747.05 - 4,891,321.71	\$ 4 \$ \$ 4 \$ \$ 4 \$ \$ 4	1,891,323.64 1,891,323.64 1,891,323.71
version 3.0	SUMMARY: General & Admin Amount BETTERM Amou	Amount Payable in Tonistrative OH 0.00% Gross at Due to TxDOT Via an Adv SALVAGE an MENT RATIO unt reimbursable after Bette	TOTAL PF Export Con Reimbursa wance Func d/or Deprece Ferment and	ROJECT COST stract (Joint Bid) Utility Cost ble to the Utility ding Agreement ciation CREDIT Ratio Deduction Salvage Credit	\$ \$ \$ \$	528,423.41 - 528,423.41 - 528,423.41 528,423.41	BR	90.25%		\$ \$ \$	5,419,747.05 - 5,419,747.05 - 5,419,747.05 - 4,891,321.71 528,425.34	\$ 4 \$ \$ 4 \$ \$ 4 \$ \$ 4	- 4,891,323.64 - 4,891,323.64 - - 4,891,321.71 1.93
	SUMMARY: General & Admin Amount BETTERM Amou	Amount Payable in Tonistrative OH 0.00% Gross at Due to TxDOT Via an Adv SALVAGE an MENT RATIO unt reimbursable after Bette	TOTAL PF Export Con Reimbursa wance Func d/or Deprece Ferment and	ROJECT COST stract (Joint Bid) Utility Cost ble to the Utility ding Agreement ciation CREDIT Ratio Deduction Salvage Credit	\$ \$ \$ \$	528,423.41 - 528,423.41 - 528,423.41 528,423.41	BR	90.25%]	\$ \$ \$	5,419,747.05 - 5,419,747.05 - 5,419,747.05 - 4,891,321.71 528,425.34 23,567.77	\$ 4 \$ \$ 4 \$ \$ 4 \$ \$ 4	- 4,891,323.64 - 4,891,323.64 - - 4,891,321.71 1.93

Attachment "B" Accounting Method

\boxtimes	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.

Attachment "C" Schedule of Work

Estimated Start Date (mm/dd/yyyy): 11/5/2025, 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): 180

Estimated Completion Date (mm/dd/yyyy): 05/04/2026

Initial	Date	Initial	Date
	TxDOT	Utilit	.y

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).
	Engineering Contract:
\boxtimes	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.
Initia	Date Initial Date
пппа	TxDOT Utility



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

Form ROW-U-48 (Rev. 10/20) Page 1 of 1

		U-Number: N/A	Utility ID: _U00023607
RO	N CSJ	Number: 1951-01-012	District: Dallas
Cou	ınty:	Denton	Highway No.: FM 1515
Fed	eral P	Project No.: <u>F 2021(671)</u>	
I, SI	nawn	Messick	, a duly authorized and qualified representative of
City	of De	enton	, hereinafter referred to as Owner , am fully cognizant of the
		make the following statements in respect to ν to which this statement is attached.	vork which will or may be done on a contract basis as it appears in the
			ontract this adjustment, or Owner is not adequately staffed or equipped own forces to the extent as indicated on the estimate.
		Procedure t	o be Used in Contracting Work
	A.	•	rough open advertising and contract is to be awarded to the lowest conformity with the requirements and specifications for the work to be e provided to the State .
	В.	contractors and such contract is to be award	v circulating to a list of pre-qualified contractors or known qualified led to the lowest qualified bidder who submits a proposal in conformity the work to be performed. Associated bid tabulations will be provided to sare listed below:
		 Oscar Renda SJ. Louis Construction of Texas, LLC Mountain Cascade 	
	C.	for Owner and under which the lowest avail available to the State for review at a location	ng continuing contract under which certain work is regularly performed able costs are developed. The existing continuing contract will be made in mutually acceptable to the Owner and the State . If only part of the g contract, give detailed information by attachment hereto.
	D.	is attached to the estimate in order to obtain	foregoing requirements and therefore evidence in support of its proposal in the concurrence of the State , and the Federal Highway Administration taking action thereon (approval of the agreement shall be considered as
	E.	awarded by the State . In the best interest of the plans and specifications for this work in the in this area, so that the work can be coordinate contract is to be awarded by the State to the	consent of the State , will be included in the construction contract both the State and the Owner , the Owner requests the State to include the general contract for construction of Highway atted with the other construction operations; and the construction be lowest qualified bidder who submits a proposal in conformity with the construction is chosen, attach form ROW-U-48-1, the efference.
Sigr	nature	2	Date
Title			

SECTION 00 42 43 - UNIT PRICE BID FORM



City of Denton - Capital Projects From: Mountain Cascade of Texas, LLC.

901-B Texas Street 5340 E US Hwy 67

Denton, TX 76209 Alvarado, TX 76009

Attn: Purchasing Dept. Andrew L. McCulloch

817-783-3094

amcculloch@mountaincascade.com

PROJ.: FM 1515 Utilities Relocation

IFB: **7968-007**ENG
PMO: **230011-1**

BIDDERS APPLICATION - UNIT PRICE BID

Item No.	Spec. Section No.	Description	UOM	BID QTY		Unit Price		Extended Price
1	01 57 13	SWPPP	LS	1	\$	3,000.00	\$	3,000.00
2	01 58 13	Project Signs	EA	2	\$	1,000.00	\$	2,000.00
3	01 70 00	Mobilization	LS	1	\$	400,000.00	\$	400,000.00
4	02 41 14	Remove Utility Manhole	EA	4	\$	2,500.00	\$	10,000.00
5	02 41 14	Remove Fire Hydrant, Lead Line & Valve	EA	10	\$	2,200.00	\$	22,000.00
6	02 41 14	Remove Water Valve	EA	10	\$	1,500.00	\$	15,000.00
7	31 10 00	Site Clearing	LS	1	\$	40,000.00	\$	40,000.00
8	31 25 14	SWPPP Device Installation	LS	1	\$	35,000.00	\$	35,000.00
9	31 25 14	SWPPP Device Removal	LS	1	\$	3,000.00	\$	3,000.00
10	32 01 17	Asphalt Pavement Repair for Utility Trench	SY	28	\$	150.00	\$	4,200.00
11	32 01 29	Concrete Pavement Repair for Utility Trench	SY	60	\$	200.00	\$	12,000.00
12	32 01 29	Concrete Flume Repair	SY	9	\$	250.00	\$	2,250.00
13	32 93 00	Seeding Turf Grass	SY	15,907	\$	3.00	\$	47,721.00
14	32 93 00	Block Sod	SY	1,767	\$	11.00	\$	19,437.00
15	33 05 05	Excavation Protection	LF	7,953	\$	1.00	\$	7,953.00
16	33 05 07	Steel Casing by Open Cut (12")	LF	24	\$	400.00	\$	9,600.00
17	33 05 07	Steel Casing by Bore (12")	LF	390	\$	655.00	\$	255,450.00
18	33 05 07	Steel Casing by Open Cut (18")	LF	173	\$	420.00	\$	72,660.00
19	33 05 07	Steel Casing by Bore (18")	LF	83	\$	760.00	\$	63,080.00
20	33 05 07	Steel Casing by Open Cut (20")	LF	73	\$	450.00	\$	32,850.00
21	33 05 07	Steel Casing by Bore (20")	LF	178	\$	800.00	\$	142,400.00
22	33 05 07	Steel Casing by Open Cut (24")	LF	283	\$	550.00	\$	155,650.00
23	33 05 07	Steel Casing by Bore (24")	LF	252	\$	820.00	\$	206,640.00
24	33 05 15	HDPE Water Main in Casing (8")	LF	414	\$	100.00	\$	41,400.00
25	33 05 15	HDPE Water Main in Casing (12")	LF	256	\$	110.00	\$	28,160.00
26	33 05 15	HDPE Water Main in Casing (16")	LF	291	\$	150.00	\$	43,650.00
27	33 05 15	Sanitary Sewer Gravity Main in Casing (12")	LF	251	\$	110.00	\$	27,610.00
28	33 05 15	Sanitary Sewer Gravity Main in Casing (15")	LF	244	\$	120.00	\$	29,280.00
29	33 05 61; 33 05 62	Concrete Manhole (5' ID) (0'-6' Deep)	EA	4	\$	19,000.00	\$	76,000.00
30	33 05 61; 33 05 62	Extra Concrete Manhole Depth	VF	23	\$	800.00	\$	18,400.00
31	33 05 61; 33 05 62	External Drop for Manhole	EA	1	\$	14,000.00	\$	14,000.00
32	33 05 64	Double Detector Check Valve Vault	EA	1	\$	60,000.00	\$	60,000.00
33	33 05 76	Fiberglass Manhole (5' ID)	EA	2	\$	40,000.00	\$	80,000.00
34	33 05 76	Extra Fiberglass Manhole Depth	VF	34	\$	900.00	\$	30,600.00
35	33 05 98	Locate Existing Utilities	LS	1	\$	60,000.00	_	60,000.00
36	33 14 11	PVC Water Main (8")	LF	45	\$	250.00	\$	11,250.00
37	33 14 11	PVC Water Main (12")	LF	55	\$	300.00	\$	16,500.00
38	33 14 14	HDPE Water Main (8")	LF	115	\$	260.00	\$	29,900.00
39	33 14 14	HDPE Water Main (12")	LF	83	\$	310.00	\$	25,730.00
40	33 14 14	HDPE Water Main (16")	LF	6,825	\$	260.00	\$	1,774,500.00
41	33 14 17	Water Service Connection (2")	EA	2	\$	7,000.00	\$	14,000.00
42	33 14 20	Gate Valve (8")	EA	3	\$	8,000.00	\$	24,000.00
43	33 14 20	Gate Valve (12")	EA	3	\$	10,000.00	\$	30,000.00
44	33 14 20	Gate Valve (12)	EA	12	\$	21,000.00	\$	252,000.00
	33 2 1 20	1			7	,555.55	Υ	

Item No.	Spec. Section No.	Description	иом	BID QTY	Unit Price	Extended Price
45	33 14 25	Connection to Existing Main (8")	EA	6	\$ 23,000.00	\$ 138,000.00
46	33 14 25	Connection to Existing Main (12")	EA	2	\$ 24,000.00	\$ 48,000.00
47	33 14 25	Connection to Existing Main (16")	EA	2	\$ 28,000.00	\$ 56,000.00
48	33 14 25	City Performed Tapping Sleeve and Valve Connection (12" x 12")	EA	1	\$ 18,000.00	\$ 18,000.00
49	33 14 40	Fire Hydrant Assembly	EA	8	\$ 16,000.00	\$ 128,000.00
50	33 31 14	Sanitary Sewer Gravity Main (12")	LF	101	\$ 300.00	\$ 30,300.00
51	33 31 14	Sanitary Sewer Gravity Main (15")	LF	176	\$ 310.00	\$ 54,560.00
52	TXDOT 7216	Insertion Valve (8")	EA	2	\$ 1,500.00	\$ 3,000.00
53	34 71 13	Traffic Control Devices	MO	9	\$ 2,500.00	\$ 22,500.00
54	34 71 13	Traffic Control Plan	EA	3	\$ 1,000.00	\$ 3,000.00

TOTAL PROJECT BID AMOUNT: \$ 4,750,231.00

FM 1515 Utilities Relocation

Mountain Cascade of Texas, LLC.

SECTION 00 42 43 - UNIT PRICE BID FORM



City of Denton - Capital Projects From: Oscar Renda Contracting Inc.

901-B Texas Street 1100 Kubota Dr.

Denton, TX 76209 Grapevine, TX 76051

Attn: Purchasing Dept. Jon Dorma

817-293-4263

bidding@southlandholdings.com

PROJ.: FM 1515 Utilities Relocation

IFB: **7968-007**ENG
PMO: **230011-1**

BIDDERS APPLICATION - UNIT PRICE BID

Item No.	Spec. Section No.	Description	UOM	BID QTY		Unit Price		Extended Price
1	01 57 13	SWPPP	LS	1	\$	10,000.00	\$	10,000.00
2	01 58 13	Project Signs	EA	2	\$	5,000.00	\$	10,000.00
3	01 70 00	Mobilization	LS	1	\$	1,100,000.00	\$	1,100,000.00
4	02 41 14	Remove Utility Manhole	EA	4	\$	12,000.00	\$	48,000.00
5	02 41 14	Remove Fire Hydrant, Lead Line & Valve	EA	10	\$	10,000.00	\$	100,000.00
6	02 41 14	Remove Water Valve	EA	10	\$	3,000.00	\$	30,000.00
7	31 10 00	Site Clearing	LS	1	\$	100,000.00	\$	100,000.00
8	31 25 14	SWPPP Device Installation	LS	1	\$	200,000.00	\$	200,000.00
9	31 25 14	SWPPP Device Removal	LS	1	\$	20,000.00	\$	20,000.00
10	32 01 17	Asphalt Pavement Repair for Utility Trench	SY	28	\$	400.00	\$	11,200.00
11	32 01 29	Concrete Pavement Repair for Utility Trench	SY	60	\$	300.00	\$	18,000.00
12	32 01 29	Concrete Flume Repair	SY	9	\$	250.00	\$	2,250.00
13	32 93 00	Seeding Turf Grass	SY	15,907	\$	1.50	\$	23,860.50
14	32 93 00	Block Sod	SY	1,767	\$	10.00	\$	17,670.00
15	33 05 05	Excavation Protection	LF	7,953	\$	1.00	\$	7,953.00
16	33 05 07	Steel Casing by Open Cut (12")	LF	24	\$	470.00	\$	11,280.00
17	33 05 07	Steel Casing by Bore (12")	LF	390	\$	800.00	\$	312,000.00
18	33 05 07	Steel Casing by Open Cut (18")	LF	173	\$	700.00	\$	121,100.00
19	33 05 07	Steel Casing by Bore (18")	LF	83	\$	900.00	\$	74,700.00
20	33 05 07	Steel Casing by Open Cut (20")	LF	73	\$	800.00	\$	58,400.00
21	33 05 07	Steel Casing by Bore (20")	LF	178	\$	1,100.00	\$	195,800.00
22	33 05 07	Steel Casing by Open Cut (24")	LF	283	\$	800.00	\$	226,400.00
23	33 05 07	Steel Casing by Bore (24")	LF	252	\$	1,200.00	\$	302,400.00
24	33 05 15	HDPE Water Main in Casing (8")	LF	414	\$	700.00	\$	289,800.00
25	33 05 15	HDPE Water Main in Casing (12")	LF	256	\$	900.00	\$	230,400.00
26	33 05 15	HDPE Water Main in Casing (16")	LF	291	\$	1,000.00	\$	291,000.00
27	33 05 15	Sanitary Sewer Gravity Main in Casing (12")	LF	251	\$	600.00	\$	150,600.00
28	33 05 15	Sanitary Sewer Gravity Main in Casing (15")	LF	244	\$	700.00	\$	170,800.00
29	33 05 61; 33 05 62	Concrete Manhole (5' ID) (0'-6' Deep)	EA	4	\$	35,000.00	\$	140,000.00
30	33 05 61; 33 05 62	Extra Concrete Manhole Depth	VF	23	\$	1,000.00	\$	23,000.00
31	33 05 61; 33 05 62	External Drop for Manhole	EA	1	\$	5,000.00	\$	5,000.00
32	33 05 64	Double Detector Check Valve Vault	EA	1	\$	50,000.00	\$	50,000.00
33	33 05 76	Fiberglass Manhole (5' ID)	EA	2	\$	40,000.00	\$	80,000.00
34	33 05 76	Extra Fiberglass Manhole Depth	VF	34	\$	2,000.00	\$	68,000.00
35	33 05 98	Locate Existing Utilities	LS	1	\$	100,000.00		100,000.00
36	33 14 11	PVC Water Main (8")	LF	45	\$	600.00		27,000.00
37	33 14 11	PVC Water Main (12")	LF	55	\$	650.00	_	35,750.00
38	33 14 14	HDPE Water Main (8")	LF	115	\$	700.00		80,500.00
39	33 14 14	HDPE Water Main (12")	LF	83	\$	800.00		66,400.00
40	33 14 14	HDPE Water Main (16")	LF	6,825	\$	1,000.00		6,825,000.00
41	33 14 17	Water Service Connection (2")	EA	2	\$	8,000.00		16,000.00
42	33 14 20	Gate Valve (8")	EA	3	\$	5,000.00		15,000.00
43	33 14 20	Gate Valve (12")	EA	3	\$	8,000.00	-	24,000.00
44	33 14 20	Gate Valve (15")	EA	12	\$	25,000.00		300,000.00
	33 2 1 20	10000 10010 1	1 -/ \		Υ		Υ	223,000.00

Item No.	Spec. Section No.	Description	UOM	BID QTY	Unit Price	Extended Price
45	33 14 25	Connection to Existing Main (8")	EA	6	\$ 7,500.00	\$ 45,000.00
46	33 14 25	Connection to Existing Main (12")	EA	2	\$ 12,000.00	\$ 24,000.00
47	33 14 25	Connection to Existing Main (16")	EA	2	\$ 24,000.00	\$ 48,000.00
48	33 14 25	City Performed Tapping Sleeve and Valve Connection (12" x 12")	EA	1	\$ 30,000.00	\$ 30,000.00
49	33 14 40	Fire Hydrant Assembly	EA	8	\$ 25,000.00	\$ 200,000.00
50	33 31 14	Sanitary Sewer Gravity Main (12")	LF	101	\$ 500.00	\$ 50,500.00
51	33 31 14	Sanitary Sewer Gravity Main (15")	LF	176	\$ 550.00	\$ 96,800.00
52	TXDOT 7216	Insertion Valve (8")	EA	2	\$ 25,000.00	\$ 50,000.00
53	34 71 13	Traffic Control Devices	MO	9	\$ 5,000.00	\$ 45,000.00
54	34 71 13	Traffic Control Plan	EA	3	\$ 5,000.00	\$ 15,000.00

TOTAL PROJECT BID AMOUNT: \$ 12,593,563.50

FM 1515 Utilities Relocation

Oscar Renda Contracting Inc.



401 N. Elm St., Denton, TX 76201 • (940) 349-8910

August 12, 2025

TxDOT – Dallas District Utility and Survey Supervisor 4777 E. Highway 80 Mesquite, Texas 76021 214-320-6648

Dear TxDOT Dallas District Utilities:

This correspondence aims to elucidate the reasons behind the limited participation in the bidding process for the FM 1515 Utility Relocation (CSJ-011) (RCSJ-012) - Utility ID#: U00023607 project by the City of Denton.

The City of Denton initiated the solicitation for this project utilizing a Prequalified List of Utility Relocation Construction Services, consisting of three (3) contractors: Mountain Cascade of Texas, Oscar Renda Contracting, Inc., and S.J. Louis Construction of Texas, Ltd. However, bids were only received from Mountain Cascade of Texas and Oscar Renda Contracting, Inc., as submitted to the City of Denton's Procurement Office. It's noteworthy that the City lacks the authority to mandate participation from all parties, hence S.J. Louis Construction of Texas, Ltd. did not fulfill the bid requirements.

Should you find this letter and its accompanying enclosure insufficient in addressing this matter, please don't hesitate to contact us for further assistance.

Sincerely,

Shawn Messick Construction Project Manager

Enclosure(s):
Bid Opportunity Detail

OUR CORE VALUES





Bid Opportunity Detail

Return to Listing Replier Registration

Bid Information

Contact

Type Invitation for Bid Name Unsealed Address

Number 7968-007 Addendum 2 (FM 1515 Utilities Relocation)

Phone Issue Date & Time 3/31/2025 03:16:34 PM (CT) Fax 4/23/2025 01:00:00 PM (CT) Close Date & Time Email Question Cut Off Date 4/11/2025 02:00:00 PM (CT)

22 days 21 hours 43 minutes 25 seconds Duration

Status

IFB 7968-007 - FM1515 UTILITIES RELOCATION

The submittal process may take significant time. The City highly recommends that respondents do not wait until minutes before the due date and time to submit proposal.

Submissions via email will not be accepted.

Original Hard Copy Bid Bonds (w/raised seal) are required.

A Pre-Bid Meeting and Project Site Walkthrough will be conducted on Monday, April 7, 2025, at 2:00PM CST

Pre-Bid Meeting & Project Walkthrough will be held for in-person attendance only, see physical location below: Fastenal Distribution Center parking lot 3833 Airport Rd Denton, TX 76207

A Public Opening will be conducted for this solicitation on Wednesday, April 23, 2025, at 1:30PM CST

To attend the Public Opening in-person, see physical location below:

Development Service Center Training Room ONE 401 N. Elm Street Denton, TX 76201

To attend the Public Opening virtually follow the link:

Click here to join the meeting Meeting ID: 262 242 277 604 Passcode: bD2oc2jX Download Teams | Join on the web Learn More | Meeting options

In accordance with the provisions of Texas State Law, the City of Denton (the City) is requesting submissions to contract with an individual or business with considerable experience in providing goods or services of this solicitation. The responses and the cost solutions shall be submitted to the City of Denton in a sealed submission.

The awarded individual or business shall possess a proven track record of using innovative approaches to providing goods and services that represent the best value to their clients. The awarded individual or business shall have the ability to accomplish all aspects of the requested services. The selected individual or firm should be able to provide innovative methods to deal with municipal challenges and cost effective solutions.

Only firms prequalified under the Request for Qualifications (RFQ 7968 - Prequalification for Utility Relocation Construction Services) portion of this two-step process are allowed to submit bids in response to this Invitation for Bid (IFB). The firms who have been prequalified are as follows (listed alphabetically):

- · Mountain Cascade of Texas
- · Oscar Renda Contracting, Inc.
- · S.J. Louis Construction of Texas, Ltd.

Bid Documents

Document name	Format
Bid Invitation	Acrobat / PDF
Public Question & Answer	Acrobat / PDF
1	2 items in 1 pages

Bid Attachments

Denton Vendor Registration

File Name	Description	File Size
IFB 7968-007 FM 1515 Project Manual - SPECS.pdf (please login to view this document)	IFB 7968-007 FM 1515 Project Manual - SPECS	21.45 MB
IFB 7968-007 FM 1515 Project Manual - PLANS.pdf (please login to view this document)	IFB 7968-007 FM 1515 Project Manual - PLANS	24.14 MB
00 42 43 - Unit Price Bid Form.xlsx (please login to view this document)	00 42 43 - Unit Price Bid Form - IFB 7968-007	52 KB
7968-007 Safety Questionnaire.pdf	Safety Record Questionnaire Form	21 KB
ADDENDUM 1 - IFB 7968-007 Pre-Bid Meeting Agenda & Attendance.pdf	**ADDENDUM 1** IFB 7968-007 Pre-Bid Meeting Agenda & Attendance	91 KB
1		5 items in 1 pages

Bid Questions

Question	SS 2 shows a 12" being installed but the call outs at the top of the page state 15". Is SS 2 to be 12" or 15"?
Answer	12" is being installed.
Submitted	4/10/2025 09:11:49 AM (CT)
Question	Will a geotech be provided?

Question	wiii a geolecii be provided:
Answer	No Geotech will be provided.
Submitted	4/8/2025 06:47:05 AM (CT)

Question Will the trees be required to be replaced on Airport Road in front of Fastenal?

Answer 1. The trees will be removed by TxDOT; therefore, replacement isn't required. Trees along FM 1515 should only be removed if necessary for utility installation.

Submitted 4/4/2025 02:05:34 PM (CT)

Question Can an item be added for the sidewalk along Airport Road? It looks like it starts at Fastenal and goes to Dakota Lane.

Answer

 $1. \ The \ current \ sidewalk \ shouldn't \ be \ any \ issue \ other \ than \ when \ possibly \ removing \ the \ old \ hydrants, \ valves, \ and \ such.$

Submitted 4/4/2025 02:04:48 PM (CT)

Bid Event Participation Activity

Activity Date	Activity Name	Description
4/7/2025 02:00:00 PM (CT)	Pre-Bid Conference & Site Walkthrough	**Due to severe weather conditions, the Pre-Bid Meeting and Site Walkthrough will be moved to Monday, April 7th at 2:00 PM**
		A non-mandatory Pre-Bid Conference and Project Site Walkthrough will be available to interested contractors. Attendance at the Pre-Bid Conference is strongly encouraged prior to submission of a response.
		Pre-Bid Meeting & Project Walkthrough will be held for in-person attendanconly, see physical location below:
		Fastenal Distribution Center parking lot
		3833 Airport Rd

Plan Holders

Supplier Name	City	State	Contact Name	Email	Phone
mountain cascade of texas	Alvarado	TX	Cody Sears	codys@mountaincascade.com	(817) 783-3094
Oscar Renda Contracting, Inc.	Grapevine	TX	Janie Rodriguez	bidding@southlandholdings.com	(817) 293-4263
S.J. Louis Construction of Texas, Ltd	Mansfield	TX	Adam Lunsford	AdamL@sjlouis.com	(817) 477-0320
1					3 items in 1 pages

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: 00002/20240807/370940/444678/UP 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 Initial Date TxDOT Utility

UTILITY PERMIT APPROVAL

TO:	Tankersley City of Denton - Cole
	401 N. Elm St. Denton,76201

Date:	09-10-2025
Application/Permit No.:	00002/20240807/370940/444678/UP
District:	Dallas

Highway	Control Section	Maintenance Section	County
FM1515-K: From milepost 562+0.223 To milepost 562+1.072	1951-01		Denton
FM1515-K: From milepost 562+1.072 To milepost 562+1.078	1951-01		Denton
FM1515-K: From milepost 562+1.078 To milepost 562+1.541	1951-01		Denton
IH0035W-X: At milepost 84.648	0081-13		Denton
IH0035W-X: At milepost 84.648	0081-13		
FM1515-K: From milepost 562+1.663 To milepost 562+1.669	1951-01		Denton
FM1515-K: From milepost 562+1.67 To milepost 562+1.676	1951-01		Denton
FM1515-K: At milepost 562+1.67	1951-01		
FM1515-K: From milepost 562+1.271 To milepost 562+1.286	1951-01		Denton
FM1515-K: From milepost 562+0.771 To milepost 562+0.772	1951-01		Denton
FM1515-K: At milepost 562+0.772	1951-01		

Schedule Dates: from 09/09/2025 to 03/09/2026

TxDOT offers no objection to the location on the right-of-way of your proposed utility installation, as described by Notice of Proposed Utility Installation No. 00002/20240807/370940/444678/UP dated

03/06/2025 and accompanying documentation, except as noted below.

Special Provisions:

You are required to notify TxDOT 48 hours (2 business days) before you start construction to allow for proper inspection and coordination of workdays and traffic control plans. Use the RULIS website for the 48-hour notification. DO NOT start construction until you have coordinated the construction start date and inspection with TxDOT. You are also required to keep a copy of this Approval and any approved amendments at the job site.

When installing utility lines on controlled-access highways, access for serving this installation shall be limited to access via (a) frontage roads where provided, (b) nearby or adjacent public roads or streets, (c) trails along or near the highway right-of-way lines, connecting only to intersecting roads; from any one or all of which entry may be made to the outer portion of the highway right-of-way for routine service and maintenance operations. The Installation Owner's rights of access to the through-traffic roadways and ramps shall be subject to the same rules and regulations as that apply to the general public except, however, if an emergency occurs and usual means of access for routine service operations will not permit the immediate action required by the Utility Installation Owner in making emergency repairs as required for the safety and welfare of the public, the Utility Owners shall have a temporary right of access to and from the through-traffic roadways and ramps as necessary to accomplish the required emergency repairs, provided TxDOT is immediately notified by the Utility Installation Owner when such repairs are initiated and adequate provision is made by the Utility Installation Owner for the convenience and safety of highway traffic.

The installation shall not damage any part of the highway, and adequate provisions must be made to cause minimum inconveniences to traffic and adjacent property owners. If the Utility Installation Owner fails to comply with any or all the requirements as set forth herein, the State may take such action as it deems appropriate to compel compliance.

Utility Permit Approval - Permit number: 00002/20240807/370940/444678/UP Date of Approval: 09-10-2025

Response text: This permit was already approved through Denton UC. This is not a Ellis or Navarro permit.

SME - Utility Coordinator Review

Review Answer: Recommend Approval w/ Comments/Changes

Response text: Please make sure current prints are uploaded and construction dates are updated

SME - Utility Coordinator Review Review Answer: Recommend Approval

Response text:

Reviewed and approved by the Area Office.

SME- District Design / Project Management Review

Review Answer: Recommend Approval

Response text: Hello. I have reviewed. I do not see any conflicts with TxDOT Project FM 1515 CSJ 1951-01-011.

SME - Utility Coordinator Review Review Answer: Recommend Approval Response text: Recommend Approval

SME ATTACHMENTS:

Included attachments:

SME Answers Summary 3106994.pdf SME Answers Summary 2931176.pdf SME Answers Summary 2919349.pdf

Attachment "F" Eligibility Ratio

Eligibility Ratio established: 4.46 %

\boxtimes	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.

	In Easement	In Public ROW
	(Eligible)	(Ineligible)
Plan Sheet or	Existing # of Poles	Existing of Poles
Page#	or LF	or L F
1	0	0
2	84	
3	9	385
4	23 3	96
Totals		503

Totals	300
Total Existing # proofs or LF (Eligible)	412
Tota Fasting # of Poles or LF (Ineligible)	503
Total ixisting # 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	Initial	Date
	TxDOT	l Jtil	itv

ELIGIBILITY RATIO CALCULATOR		
Calculation for Overhead Installation by Number of Eligible Poles	Calculation for Underground or Overhead by Length of Existing Facility	
Number of EXISTING poles in conflict that are both OUTSIDE of existing ROW, and INSIDE of Proposed ROW. (in easement)	Length of existing facility in conflict that is both outside of the existing ROW and inside of proposed ROW. EASEMENT 371	
Number of existing Poles in conflict that are inside of the existing ROW. (present by permit)	Length of the existing facility in conflict inside of the existing ROW . PERMIT 7942	
TOTAL number of Poles in Conflict 0	TOTAL length of the existing facility within proposed TxDOT ROW. 8313	
ELIGIBILITY IF CALCULATED BY POLES 0.00%	ELIGIBILITY IF CALCULATED BY LENGTH 4.46%	
ACCEPTED ELIGIBILITY RATIO	4.46%	

ELIGIBILITY RATIO CALCULATOR

Linear Feet or Pole Count of Existing Facility

Public (permit)		Private (easement
Page 1		
Page 2		\vdash
Page 3		\vdash
Page 4		-
Page 5		-
Page 6		
Page 7		
Page 8		
Page 9		
Page 10		
Page 11		
Page 12		
Page 13		
Page 14		
Page 15	1000	
Page 16	950	
Page 17	1000	
Page 18	1000	
Page 19	1000	
Page 20	1000	
Page 21	1024	
Page 22	93.82	371
Page 23	334.74	
Page 24	130.91	
Page 25	100.26	
Page 26	71.22	
Page 27	236.68	
Page 28		
Page 29		
Page 30		
Page 31		
Page 32		
Page 33		
Page 34		
Page 35		
Page 36		
Page 37		
SUM	7941.63	371
TOTAL EXISTING FACILITY	8313	

Attachment "G" **Betterment Calculation and Estimate**

	Elective Betterment Ratio established: 90.25 % 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
ning Ele	ective and/or Forced Betterment:

A statement explain

Initial	Date TxDOT		Initial	— Utility	Date

BETTERMENT RATIO CALCULATOR							
Two estimates are required to calculate betterment. One with, and one Please attach both estimates.	without betterment.						
The total estimated cost of the project INCLUDING BETTERMENT	\$5,419,747.05						
The total estimated cost of the project NOT including BETTERMENT	\$528,423.41						
THE AMOUNT OF BETTERMENT	\$4,891,323.64						
The BETTERMENT RATIO IS:	90.25%						

Attachment "H" Proof of Property Interest

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

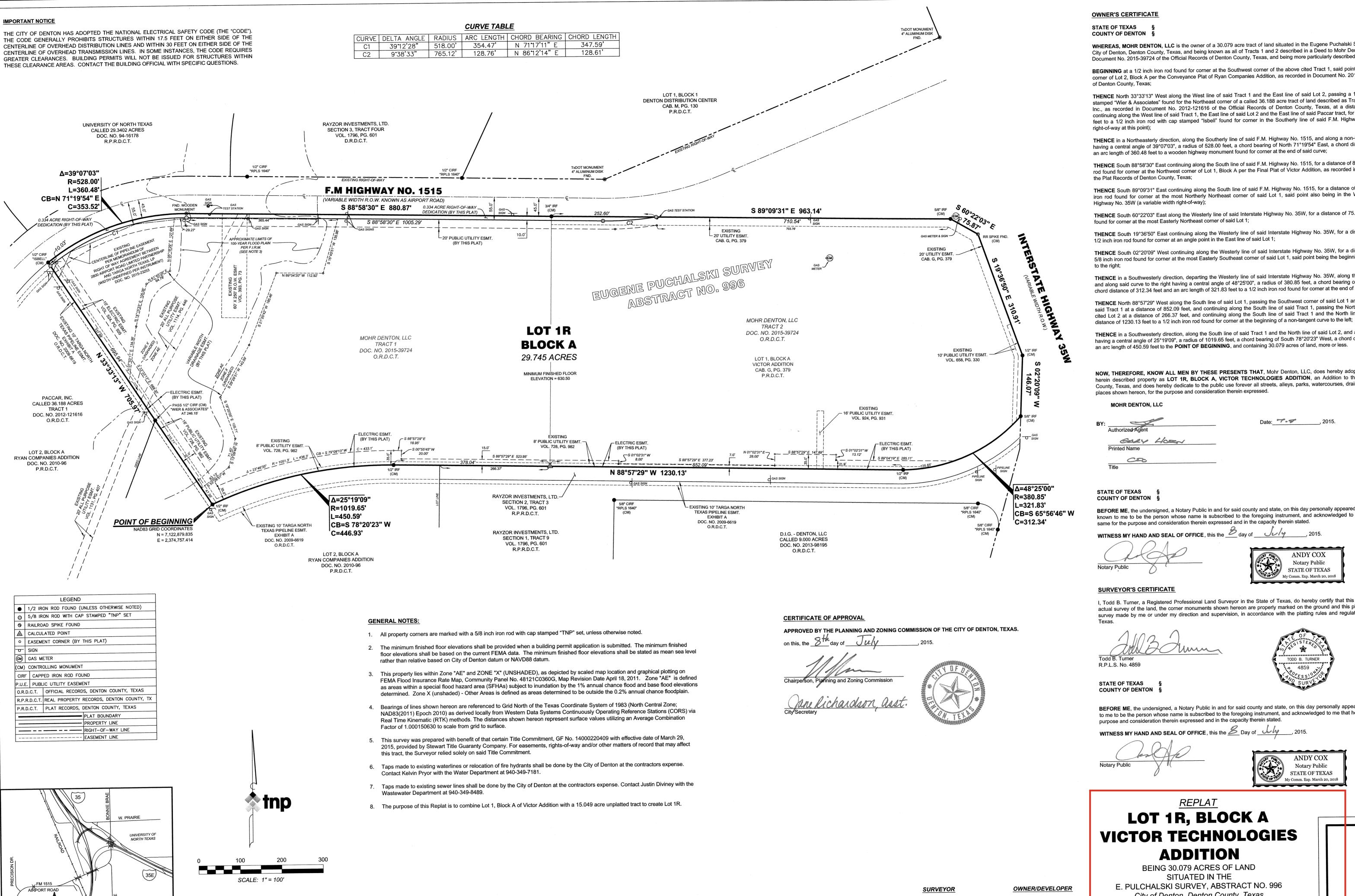
Initial	Date	Initial	Date
	TxDOT	Utilit	:y

J. NEWTON RAYZOR

: VOL.426Fg. 295 30'

L = 443.42

SCALE : 1" = 200' DRAIDAGE CURUE DATA A= 19045' R= 1155.92 BETTER TOOLS VOL. \$51 Pg. C55 L= 398.44 TRACT A PLAT OF BETTER TOOLS PROPERTY ATTEST: from the IN E. PUCHALSKI SURVEY, KEST. No. XIV. ATTEST from the BETTER TOOLS INC. "I hereby certify this plat is incorporated into that certain dedication bearing even date herewith executed by the undersigned to the City of Denton." MAR. , 1968 & DOLLONGE CHEVE DATA A = 24" 27' 2389 R = 726.20 T: 157.34 L = 309.84 FILED FOR RECORD
AT2:300'CLOCK CON 588° 50' € CHRUS DATA A = 410 R=619.66' T = 231.68



teague nall & perkins

Denton, Texas 76205

940.383.4177 ph 940.383.8026 fa

www.tnpinc.com T.B.P.L.S. Firm No. 10011601

PROJECT

SITE

17 Centre Place Drive, Suite 320

OWNER'S CERTIFICATE

STATE OF TEXAS

WHEREAS, MOHR DENTON, LLC is the owner of a 30.079 acre tract of land situated in the Eugene Puchalski Survey, Abstract No. 996, City of Denton, Denton County, Texas, and being known as all of Tracts 1 and 2 described in a Deed to Mohr Denton, LLC, as recorded in Document No. 2015-39724 of the Official Records of Denton County, Texas, and being more particularly described as follows:

BEGINNING at a 1/2 inch iron rod found for corner at the Southwest corner of the above cited Tract 1, said point also being an interior ell corner of Lot 2, Block A per the Conveyance Plat of Ryan Companies Addition, as recorded in Document No. 2010-96 of the Plat Records

THENCE North 33°33'13" West along the West line of said Tract 1 and the East line of said Lot 2, passing a 1/2 inch iron rod with cap stamped "Wier & Associates" found for the Northeast corner of a called 36.188 acre tract of land described as Tract 1 in a Deed to Paccar, Inc., as recorded in Document No. 2012-121616 of the Official Records of Denton County, Texas, at a distance of 246.15 feet, and continuing along the West line of said Tract 1, the East line of said Lot 2 and the East line of said Paccar tract, for a total distance of 705.97 feet to a 1/2 inch iron rod with cap stamped "Isbell" found for corner in the Southerly line of said F.M. Highway No. 1515 (a 90' wide

THENCE in a Northeasterly direction, along the Southerly line of said F.M. Highway No. 1515, and along a non-tangent curve to the right having a central angle of 39°07'03", a radius of 528.00 feet, a chord bearing of North 71°19'54" East, a chord distance of 353.52 feet and an arc length of 360.48 feet to a wooden highway monument found for corner at the end of said curve;

THENCE South 88°58'30" East continuing along the South line of said F.M. Highway No. 1515, for a distance of 880.87 feet to 3/4 inch iron rod found for corner at the Northwest corner of Lot 1, Block A per the Final Plat of Victor Addition, as recorded in Cabinet G, Page 379 of the Plat Records of Denton County, Texas;

THENCE South 89°09'31" East continuing along the South line of said F.M. Highway No. 1515, for a distance of 963.14 feet to a 5/8 inch iron rod found for corner at the most Northerly Northeast corner of said Lot 1, said point also being in the Westerly line of Interstate Highway No. 35W (a variable width right-of-way);

THENCE South 60°22'03" East along the Westerly line of said Interstate Highway No. 35W, for a distance of 75.87 feet to a railroad spike found for corner at the most Easterly Northeast corner of said Lot 1;

THENCE South 19°36'50" East continuing along the Westerly line of said Interstate Highway No. 35W, for a distance of 310.91 feet to a 1/2 inch iron rod found for corner at an angle point in the East line of said Lot 1;

THENCE South 02°20'09" West continuing along the Westerly line of said Interstate Highway No. 35W, for a distance of 146.07 feet to a 5/8 inch iron rod found for corner at the most Easterly Southeast corner of said Lot 1, said point being the beginning of a non-tangent curve

THENCE in a Southwesterly direction, departing the Westerly line of said Interstate Highway No. 35W, along the South line of said Lot 1 and along said curve to the right having a central angle of 48°25'00", a radius of 380.85 feet, a chord bearing of South 65°56'46" West, a chord distance of 312.34 feet and an arc length of 321.83 feet to a 1/2 inch iron rod found for corner at the end of said curve;

THENCE North 88°57'29" West along the South line of said Lot 1, passing the Southwest corner of said Lot 1 and the Southeast corner of said Tract 1 at a distance of 852.09 feet, and continuing along the South line of said Tract 1, passing the Northeast corner of the above cited Lot 2 at a distance of 266.37 feet, and continuing along the South line of said Tract 1 and the North line of said Lot 2 for a total

THENCE in a Southwesterly direction, along the South line of said Tract 1 and the North line of said Lot 2, and along said curve to the left having a central angle of 25°19'09", a radius of 1019.65 feet, a chord bearing of South 78°20'23" West, a chord distance of 446.93 feet and an arc length of 450.59 feet to the **POINT OF BEGINNING**, and containing 30.079 acres of land, more or less.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS THAT, Mohr Denton, LLC, does hereby adopt this plat designating the herein described property as LOT 1R, BLOCK A, VICTOR TECHNOLOGIES ADDITION, an Addition to the City of Denton, Denton County, Texas, and does hereby dedicate to the public use forever all streets, alleys, parks, watercourses, drains, easements, and public places shown hereon, for the purpose and consideration therein expressed.

MOHR DENTON, LLC

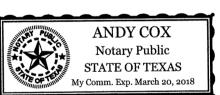
BY:		Date:	, 2015.
	Authorized Agent		
	GORY HORN		
	Printed Name		
	CEO		
	Title		

STATE OF TEXAS

BEFORE ME, the undersigned, a Notary Public in and for said county and state, on this day personally appeared CARY HORN, known to me to be the person whose name is subscribed to the forestime. known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that they executed the same for the purpose and consideration therein expressed and in the capacity therein stated.

WITNESS MY HAND AND SEAL OF OFFICE, this the ____ day of





SURVEYOR'S CERTIFICATE

I, Todd B. Turner, a Registered Professional Land Surveyor in the State of Texas, do hereby certify that this plat was prepared from an actual survey of the land, the corner monuments shown hereon are properly marked on the ground and this plat correctly represents that survey made by me or under my direction and supervision, in accordance with the platting rules and regulations of the City of Denton,



MOHR, DENTON, LLC

14643 Dallas Parkway, Suite 1000

Dallas, Texas 75254

PH: 972-239-0394

FAX: 972-239-3395

TEAGUE NALL & PERKINS

1517 Centre Place Drive, Suite 320

Denton, Texas 76205

PH: 940-383-4177

FAX: 940-383-8026

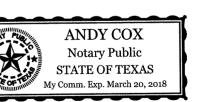
T.B.P.L.S. Firm No. 10011601

STATE OF TEXAS

BEFORE ME, the undersigned, a Notary Public in and for said county and state, on this day personally appeared Todd B. Turner, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein expressed and in the capacity therein stated.

WITNESS MY HAND AND SEAL OF OFFICE, this the **2** Day of **1**, 2015.





REPLAT LOT 1R, BLOCK A **VICTOR TECHNOLOGIES**

ADDITION BEING 30.079 ACRES OF LAND

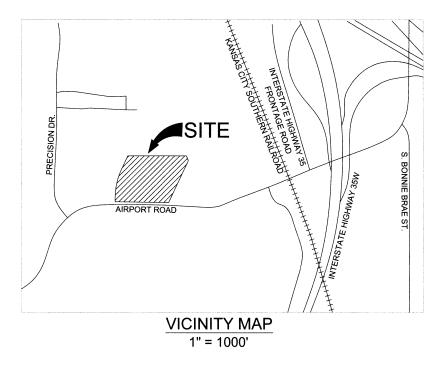
SITUATED IN THE E. PULCHALSKI SURVEY, ABSTRACT NO. 996 City of Denton, Denton County, Texas

> **JULY 2015** SHEET 1 OF 1

CITY OF DENTON PROJECT NO. FR15-0009

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Timothy Duvall



GENERAL NOTES:

1. ALL CORNERS ARE MARKED WITH CAPPED 1/2" IRON RODS STAMPED "KAZ" UNLESS OTHERWISE NOTED.

2. FLOOD STATEMENT: I HAVE REVIEWED THE F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE CITY OF DENTON, COMMUNITY NUMBER 480194 EFFECTIVE DATE 04-18-2011 AND THAT MAP INDICATES AS SCALED. THAT A PORTION OF THIS PROPERTY IS WITHIN "NON-SHADED ZONE X" DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", AND A PORTION IS WITHIN "SHADED ZONE AE" DEFINED AS "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANGE FLOOD (100-YEAR); WITH BASE FLOOD ELEVATIONS DETERMINED", A PORTION OF WHICH LIES IN THE "FLOODWAY" DEFINED AS "THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENTS" AS SHOWN ON PANEL 360 G OF SAID MAP.

3. THE PURPOSE OF THIS FINAL PLAT IS TO CREATE 1 LOT OF RECORD.

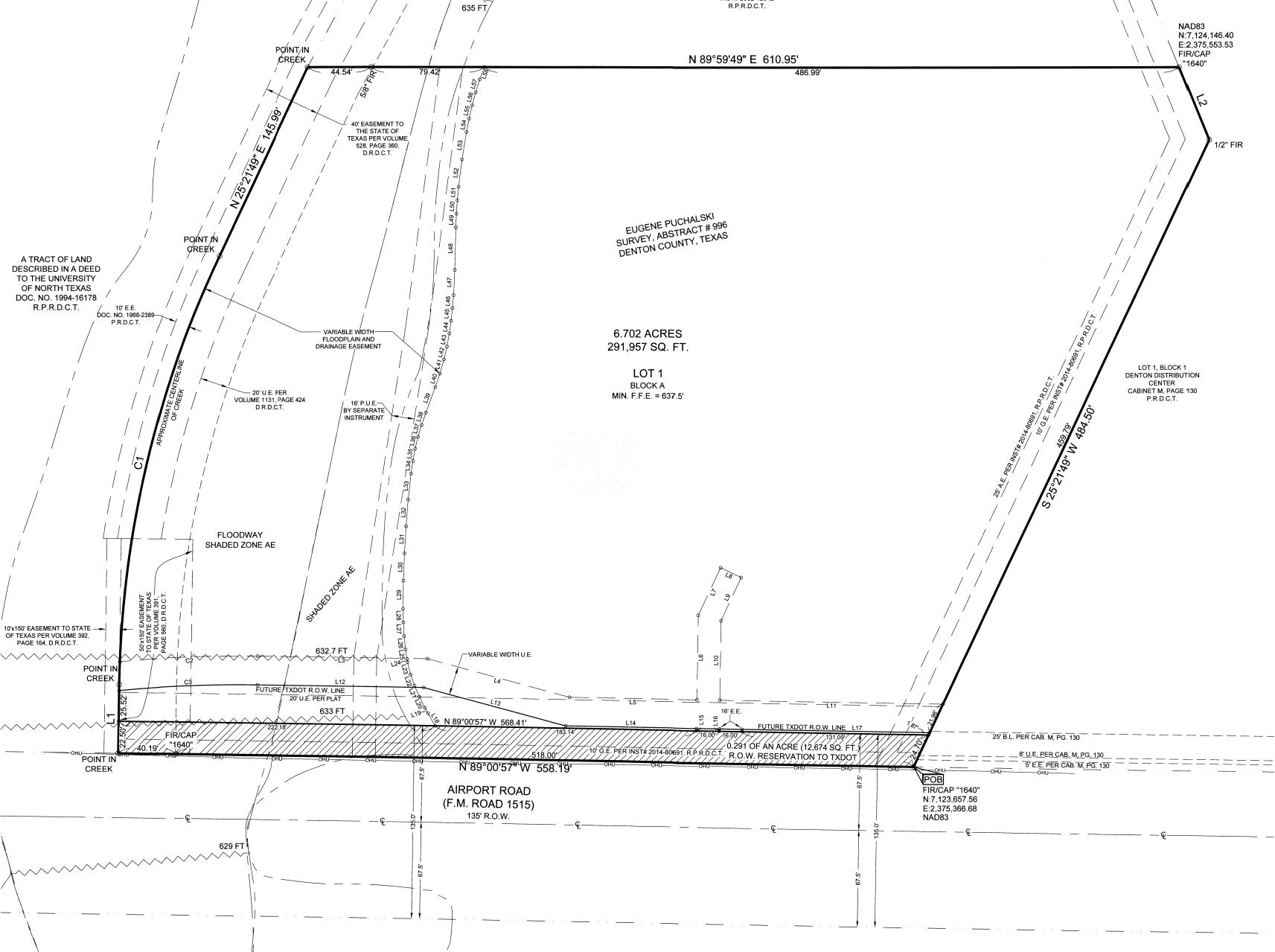
1. BEARINGS SHOWN HEREON ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM OF 1983, NORTH CENTRAL ZONE (4202), AND ARE BASED ON THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT.

5. THERE ARE NO PROTECTED TREES IN THE DEVELOPMENT IMPACT AREA. THERE ARE EXISTING TREES WITHIN THE FLOODPLAIN TO REMAIN UNDISTURBED.

6. THE CITY OF DENTON HAS ADOPTED THE NATIONAL ELECTRICAL SAFETY CODE (THE "CODE"). THE CODE GENERALLY PROHIBITS STRUCTURES WITHIN 17.5 FEET ON EITHER SIDE OF THE CENTERLINE OF OVERHEAD DISTRIBUTION LINES AND WITHIN 37.5 FEET ON EITHER SIDE OF THE CENTERLINE OF OVERHEAD TRANSMISSION LINES. IN SOME INSTANCES THE CODE REQUIRES GREATER CLEARANCES. BUILDING PERMITS WILL NOT BE ISSUED FOR STRUCTURES WITHIN THESE CLEARANCE AREAS. CONTACT THE BUILDING OFFICIAL WITH SPECIFIC

7. PRIVATE IMPROVEMENTS CANNOT ENCROACH ONTO EXISTING PUBLIC OR PRIVATE EASEMENTS.

8. STREAMS AND DRAINAGE WAYS MAY BE RETAINED AS A PART OF A NONRESIDENTIAL LOT, AND IT SHALL BE THE PROPERTY OWNER'S RESPONSIBILITY TO MAINTAIN THIS AREA AS SET FORTH BY EASEMENT, EXCEPT AS OTHERWISE PROVIDED. A MAINTENANCE EASEMENT SHALL BE GRANTED TO THE CITY AND SHALL GRANT THE RIGHT BUT NOT THE OBLIGATION TO MAINTAIN AND CONSTRUCT DRAINAGE FACILITIES IF THE STREAM OR DRAINAGE WAY IS NOT BEING PROPERLY MAINTAINED. THE MAINTENANCE ENTITY'S BY-LAWS AND COVENANTS FILED OF RECORD SHALL PROVIDE FOR ONGOING MAINTENANCE. THE EASEMENT SHALI AUTHORIZE A LIEN AGAINST INDIVIDUAL ABUTTING LOTS IN FAVOR OF THE CITY TO SECURE THE PAYMENT TO THE CITY FOR ANY EXPENSES INCURRED BY THE CITY IN THE EVENT OF DEFAULT OR TO SECURE PAYMENT FOR ANY EXPENSES INCURRED IF THE MAINTENANCE ENTITY IS NOT PROPERLY MAINTAINING THE STREAM OR DRAINAGE WAY.



A TRACT OF LAND DESCRIBED

IN A DEED TO TRIAD-DENTON

HOSPITAL, L.P.

LINE TABLE			LINE TABLE				
LINE	BEARING	DISTANCE	LINE BEARING DI		DISTANCE		
L1	N 00°54'49" E	48.02'	L30	N 02°16'25" E	19.24'		
L2	S 22°03'33" E	55.07'	L31	N 03°30'31" E	19.16'		
L3	S 89°02'08" E	119.56'	L32	N 04°29'34" E	18.79'		
L4	S 75°00'27" E	103.05'	L33	N 06°24'30" E	18.44'		
L5	S 89°01'43" E	89.11'	L34	N 08°41'45" E	8.85'		
L6	N 00°59'03" E	58.84'	L35	N 10°36'22" E	8.75'		
L7	N 25°21'49" E	36.64'	L36	N 13°36'57" E	8.49'		
L8	S 64°38'11" E	16.00'	L37	N 16°55'14" E	8.70'		
L9	S 25°21'49" W	33.18'	L38	N 19°30'16" E	9.04'		
L10	S 00°59'03" W	55.38'	L39	N 20°21'31" E	18.98'		
L11	S 89°01'43" E	156.93'	L40	N 19°20'52" E	9.90'		
L12	S 89°02'08" E	117.11'	L41	N 16°37'58" E	10.26'		
L13	S 75°00'27" E	103.05'	L42	N 13°14'30" E	9.31'		
L14	S 89°01'43" E	91.57'	L43	N 10°18'49" E	9.27'		
L15	N 00°59'03" E	1.67'	L44	N 07°55'44" E	9.02'		
L16	N 00°59'03" E	1.67'	L45	N 06°27'44" E	9.02'		
L17	N 89°01'43" W	131.87'	L46	N 04°45'31" E	9.09'		
L18	N 29°25'15" W	10.06'	L47	N 02°59'49" E	17.74'		
L19	N 29°24'27" W	4.36'	L48	N 01°21'38" E	29.66'		
L20	N 26°35'31" W	8.53'	L49	N 02°32'23" E	9.54'		
L21	N 23°39'28" W	8.54'	L50	N 04°04'49" E	9.40'		
L22	N 19°30'06" W	8.15'	L51	N 05°34'17" E	9.41'		
L23	N 14°04'19" W	8.86'	L52	N 07°10'55" E	19.25'		
L24	N 09°07'52" W	2.26'	L53	N 09°30'48" E	19.39'		
L25	N 09°07'45" W	6.81'	L54	N 11°00'05" E	9.66'		

APPROVED BY THE PLANNING AND ZONING COMMISSION ON THIS
DAY OF December, 2023.
Melto
CHAIRPERSON

CITY SECRETARY

CURVE TABLE

307.53'

96.63'

96.83'

CHORD LENGTH | CHORD BEARING

N 13°17'35" E

N 87°58'06" E

N 87°53'39" I

DELTA ANGLE

24°26'54"

6°03'33"

6°12'27"

OWNER'S CERTIFICATION

STATE OF TEXAS **COUNTY OF DENTON**

WHEREAS; STEVENSON PROPERTIES DENTON TEXAS, LLC is the owner of all that certain tract of land situated in the Eugene Puchalski Survey, Abstract Number 996, Denton County, Texas, and being all of a tract of land described in a deed to STEVENSON PROPERTIES DENTON TEXAS, LLC, as recorded in Instrument Number 2019-40218, Real Property Records. Denton County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a capped iron rod found stamped "1640" for the Southeast corner of said Stevenson tract, same being the Southwest corner of Lot 1, Block 1, Denton Distribution

Center, recorded in Cabinet M, Page 130, Plat Records, Denton County, Texas, and being in the North right of way line of Airport Road, also known as Farm to Market Road 1515; THENCE North 89 degrees 00 minutes 57 seconds West, along said North right of way line, passing a capped iron rod found stamped "1640" at a distance of 518.00 feet, continuing for a total distance of 558.19 feet to a point in creek, same being the Southwest corner of said Stevenson tract, and being the Southeast corner of a tract of land described in a deed to The University of

North Texas, recorded in Instrument Number 1994-16178, Real Property Records, Denton County, Texas; THENCE North 00 degrees 54 minutes 49 seconds East, along the common line of said Stevenson tract and said University of North Texas tract, a distance of 48.02 feet to a point in creek, same being the beginning of a curve to the right;

THENCE continuing along said common line and along said curve to the right, whose chord bears North 13 degrees 17 minutes 35 seconds East, 307.53 feet, having a radius of 726.20 feet,

and an arc length of 309.87 feet to a point in creek; THENCE North 25 degrees 21 minutes 49 seconds East, continuing along said common line, a distance of 145.99 feet to a point in creek for the Northwest corner of said Stevenson tract;

THENCE North 89 degrees 59 minutes 49 seconds East, departing said common line and along the common line of said Stevenson tract and a tract of land described in a deed to Triad-Denton Hospital, L.P., recorded in Instrument Number 2002-12042, Real Property Records, Denton County, Texas, passing a 5/8" iron rod found at a distance of 44.54 feet, and continuing for a total distance of 610.95 feet to a capped iron rod found stamped "1640" for the Northerly Northeast corner of said Stevenson tract;

THENCE South 22 degrees 03 minutes 33 seconds East, departing said common line and along the common line of said Lot 1, Block 1, a distance of 55.07 feet to a 1/2 inch iron rod found; THENCE South 25 degrees 21 minutes 49 seconds West, continuing along said common line, a distance of 484.50 feet to the POINT OF BEGINNING and containing 6.99 acres (304,632 square feet) of land, more or less.

OWNER'S DEDICATION

NOW THEREFORE KNOW ALL MEN BY THESE PRESENTS:

THAT STEVENSON PROPERTIES DENTON TEXAS, LLC DOES HEREBY ADOPT THIS FINAL PLAT, DESIGNATING THE HEREIN DESCRIBED PROPERTY AS AIRPORT ROAD ADDITION, AN ADDITION IN THE CITY OF DENTON, DENTON COUNTY, TEXAS AND DOES HEREBY DEDICATE TO PUBLIC USE FOREVER ALL STREETS, ALLEYS, PARKS, WATERCOURSES. DRAINS, EASEMENTS, AND PUBLIC PLACES THEREON SHOWN FOR THE PURPOSE AND CONSIDERATION THEREIN EXPRESSED.

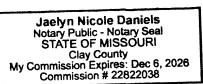
THULL STEVENSON PROPERTIES DENTON TEXAS, LLC STATE OF COUNTY OF 1

BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE, ON THIS DAY PERSONALLY APPEARED STEVENSON PROPERTIES DENTON TEXAS, LLC., KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN.

WITNESS MY HAND AND SEAL OF OFFICE THIS THE 24th DAY OF MOVED, 2023.

NOTARY PUBLIC IN AND FOR THE STATE OF _______________________ COUNTY

MY COMMISSION EXPIRES ON Dec. 6 7026



CERTIFICATE OF SURVEYOR

STATE OF TEXAS

COUNTY OF DENTON

, KENNETH A. ZOLLINGER, REGISTERED PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM AND ACTUAL SURVEY MADE ON THE GROUND AND THAT THE MONUMENTS SHOWN HEREON WERE FOUND OR PLACED WITH 1/2" IRON RODS CAPPED "KAZ" UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE ORDINANCES OF THE CITY OF DENTON, DENTON COUNTY, TEXAS.

STATE OF TEXAS

COUNTY OF DENTON

BEFORE ME. THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED KENNETH A. ZOLLINGER, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF THE OFFICE THIS

NOTARY PUBLIC, DENTON COUNTY, TEXAS.

ANNE M WATSON Notary ID #128482337 My Commission Expires 12/29/26

12-29-26 MY COMMISSION EXPIRES

CITY OF DENTON PROJECT NUMBER FP22-0022

Kenneth a Zollinger 🛭 ຸ 5312 ູ√.ໍ**໙**

> Filed for Record in the Official Records Of: Denton County
> On: 4/21/2023 3:46:57 PM
> In the PLAT Records
> AIRPORT ROAD ADDN
> Doc Number: 2023 – 130 Number of Pages: 1 Amount: 50.00 Order#:20230421000608

By: CB

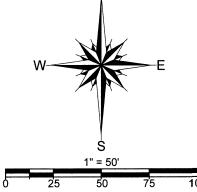
LEGEND

R.O.W. = RIGHT-OF-WAY POB = POINT OF BEGINNING FIR = IRON ROD FOUND R.P.R.D.C.T. = REAL PROPERTY RECORDS DENTON COUNTY TEXAS D.R.D.C.T. = DEED RECORDS DENTON COUNTY TEXAS P.R.D.C.T. = PLAT RECORDS DENTON COUNTY TEXAS

MIN. F.F.E. = MINIMUM FINISHED FLOOR ELEVATION E.E. = ELECTRIC EASEMENT G.E. = GAS EASEMENT

U.E. = UTILITY EASEMENT B.L. = BUILDING LINE

P.U.E. = PRIVATE UTILITY EASEMENT ——Ç——— = CENTERLINE OF ROAD = ADJOINING PROPERTY LINE = BASE FLOOD ELEVATION LINE = OVERHEAD ELECTRIC LINE



L26

L27

L29

N 05°39'17" W

N 03°03'55" W

N 01°01'07" W

N 00°44'52" E

SURVEYOR:

KAZ SURVEYING, INC. 1720 WESTMINSTER STREET DENTON, TEXAS 76205 PHONE: (940) 382-3446 TBPLS FIRM #10002100

9.31'

9.53'

9.50'

19.52'

ENGINEER: ALLISON ENGINEERING GROUP 2415 N ELM STREET DENTON, TEXAS 76201 PHONE: (940) 380-9453 TBPE FIRM #F-7898 CONTACT: ANTHONY MILBITZ

N 12°46'51" E

N 15°06'53" E

N 17°35'24" E

N 20°57'07" E

L56

L58

OWNER: STEVENSON PROPERTIES DENTON TEXAS, LLC 2840 ROE LANE KANSAS CITY, KANSAS 66103 PHONE: (913) 384-0804

9.56'

9.51'

9.52'

9.23'

CURVE

C2

RADIUS

726.20'

914.16'

894.16'

ARC LENGTH

309.87'

96.68'

96.87'

TX FIRM REGISTRATION # 10002100

1720 WESTMINSTER DENTON, TX 76205 (940) 382-3446 JOB NUMBER: 200324-01 DRAWN BY: MLB/DJJ DATE: 01-09-2023

KENNETH A. ZOLLINGER

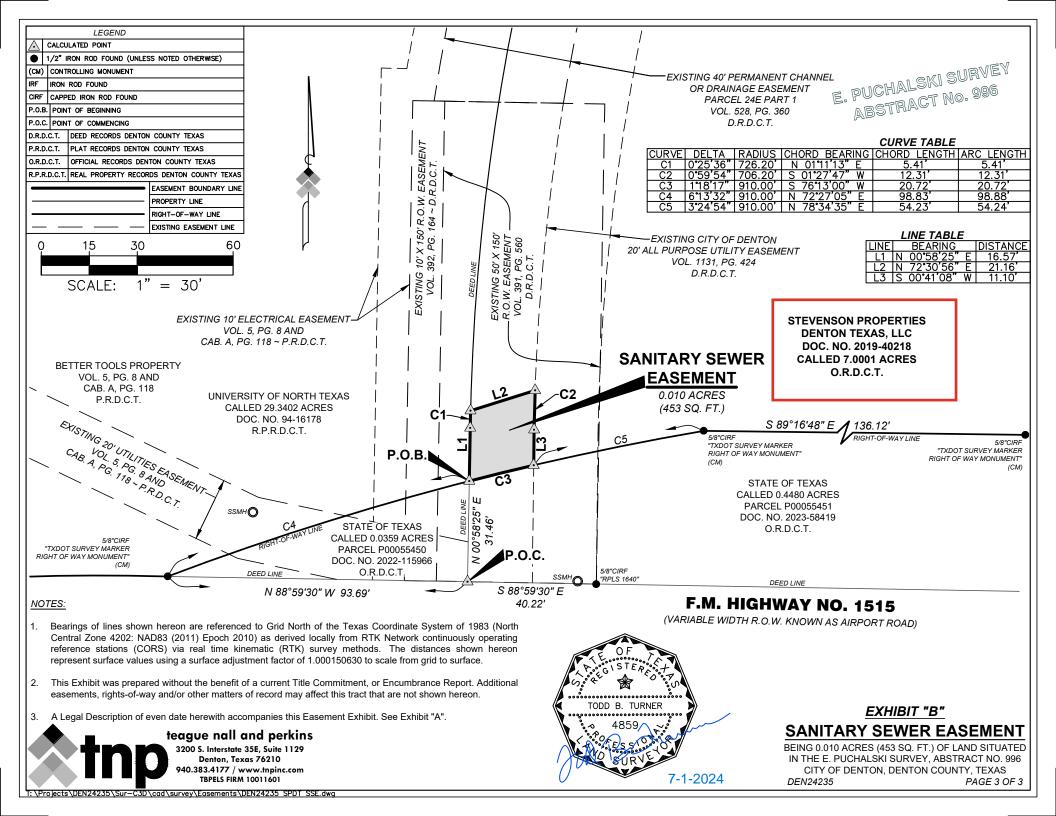
LOT 1, BLOCK A **AIRPORT ROAD ADDITION** BEING 6.99 ACRES IN THE

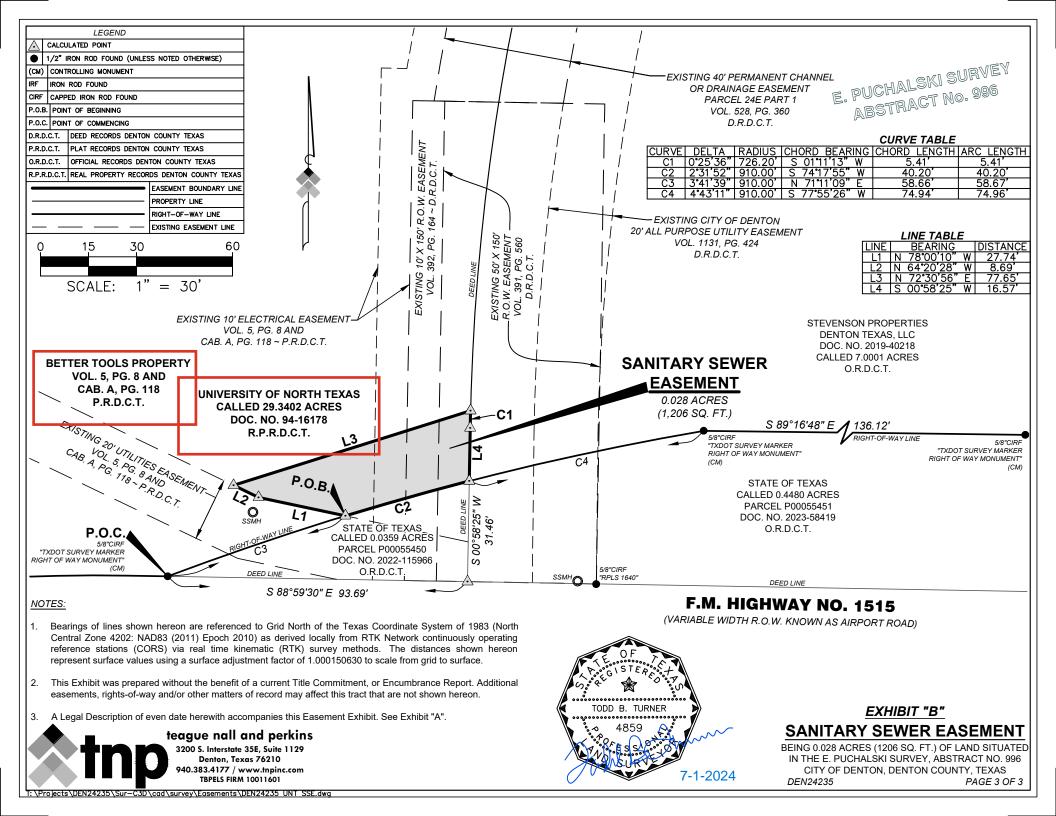
FINAL PLAT

EUGENE PUCHALSKI SURVEY, ABSTRACT NUMBER 996. CITY OF DENTON, DENTON COUNTY, TEXAS

	City of Denton Utility Easement Status Report													
Denton CAD No.	Parcel No.	Property Owner	Notes		LF of Easement Acquisition	Width (ft)	Total (SF)		Anticipated Fee Price/SF	Easement % of Fee Value	Total Easement Value	Title Policy Fee	Total E Total	asement
					Perr	nanent				Perman	ent		Perm 8	& TP Totals
							FM 1515 - U	tility Reloca	ation					
36715	1	UNT			77.65	16.57	1219.68		\$ 0.82	100%	\$ 1,488.00	0	\$	4,070.25
766102,		Stevenson												
1021573	2	Properties			21.16	20.72	435.6		\$ 5.07	100%	\$ 86.00	0	\$	86.00
668373	3	2800 Airport LLC			34.71	22.14	418		\$ 0.57	100%	\$ 732.00	0	\$	732.00

Highlighted parcel is being acquired via Eminent Domain, 3rd party attorney fees will be applied, and verified by paid invoices





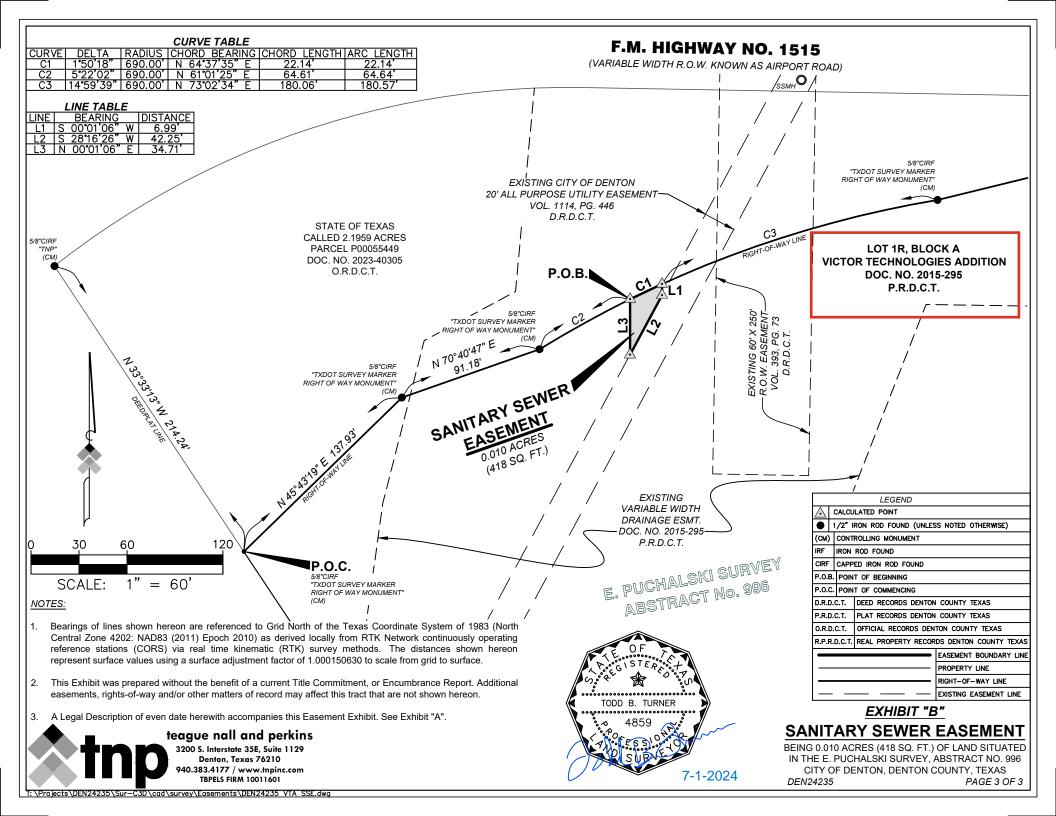


EXHIBIT B

Subject Easements

(Various Permanent Water, Wastewater, Drainage, and Electrical Easement Abandonment List)

Parcel #	DCAD Property ID #	Property Owner
1	1021573	Stevenson Properties Denton Texas LLC
2	36715	University of North Texas
3	668373	2800 Airport LLC

