

CONSTRUCTION PLANS

FOR

BROWNSVILLE PUBLIC UTILITIES BOARD

NORTH REGIONAL FORCE MAIN

PHASE 1

OWNER

BROWNSVILLE P.U.B.
1425 ROBINHOOD DR.
BROWNSVILLE, TX 78521
PHONE (956) 963-6100

UTILITY DISCLAIMER:

THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE TEXAS "ONE CALL" SYSTEM AT 811 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES TO THE UTILITY COMPANY'S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.

ENGINEER OF RECORD:

HALFF ASSOCIATES, INC.
1075 PAREDES LINE ROAD, SUITE B
BROWNSVILLE, TEXAS 78521
CONTACT: JOHN W. CLINT, P.E.
EMAIL: JCLINT@HALFF.COM
TEL: (956) 303-7110
TBPE FIRM# F-312



DISCLAIMER

THE SEAL(S) APPEARING ON THIS CONSTRUCTION SET WERE AUTHORIZED BY:
JOHN W. CLINT, 85417
ON 07/01/2022
ALTERATION OF SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF

HALFF ASSOCIATES, INC.
1075 PAREDES LINE ROAD
SUITE B
BROWNSVILLE, TEXAS 78521
TBPE FIRM #F-312

B.P.U.B. ENGINEER

MARIE C. LEAL, P.E.

BROWNSVILLE PUBLIC UTILITIES BOARD

BPUB ENGINEER'S STATEMENT

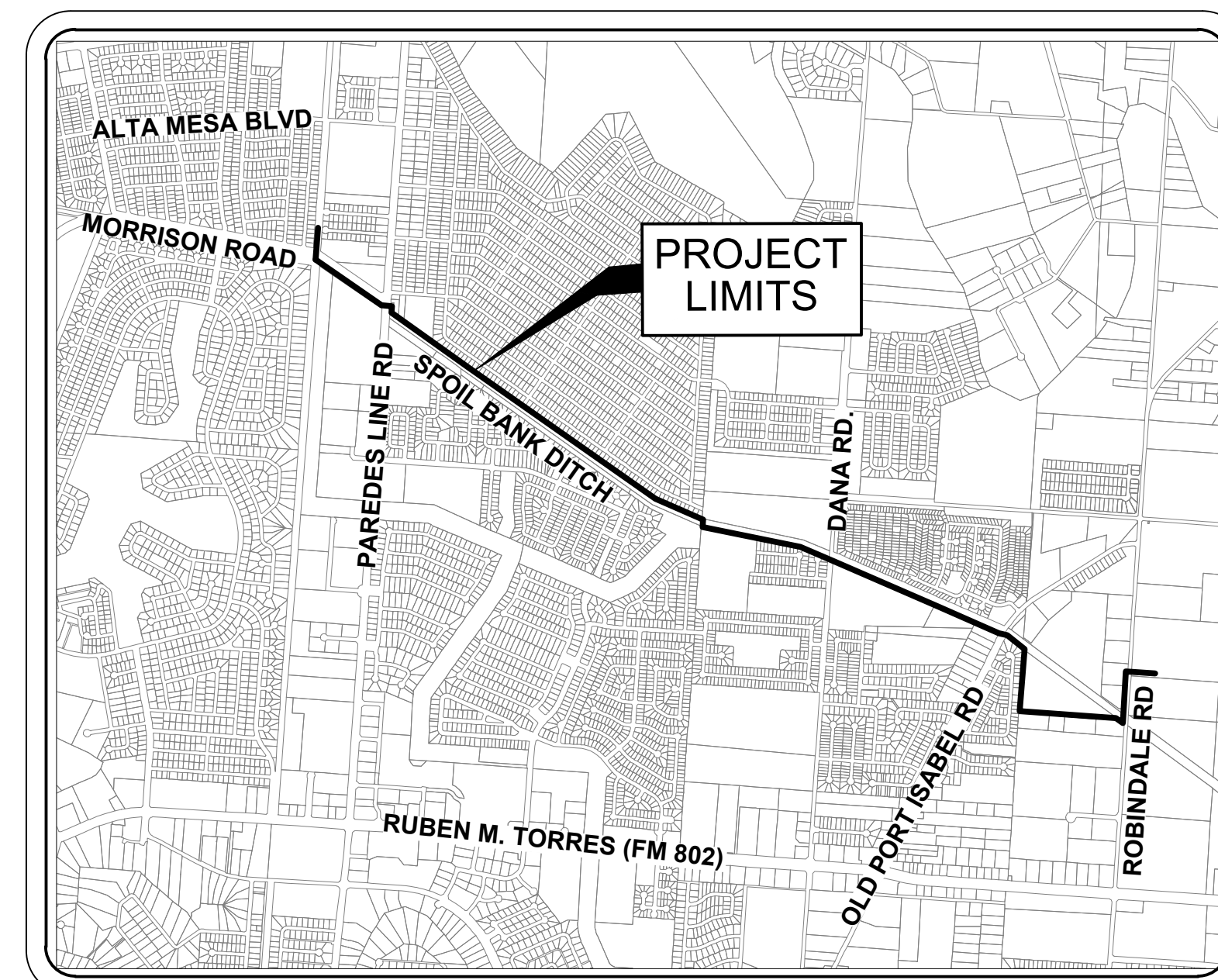
THE ABOVE IDENTIFIED PLANS AND SPECIFICATIONS HAVE BEEN REVIEWED AND FOUND TO BE IN COMPLIANCE WITH THE APPLICABLE ENGINEERING PROVISIONS (WATER AND WASTEWATER IMPROVEMENTS) OF THE MUNICIPAL CODE OF THE CITY OF BROWNSVILLE AND BPUB WATER AND WASTEWATER STANDARD DETAILS. ISSUANCE OF THIS APPROVAL SHALL NOT BE CONSTRUED AS APPROVAL OF CONCEPT FOR THE CONSTRUCTION DETAILS OF THE PROPOSED IMPROVEMENTS AND SHALL NOT IN ANY WAY RELEASE THE DEVELOPER AND THE DESIGN ENGINEER FROM LIABILITY FOR THE ADEQUACY OF THE DESIGN NOR FROM LIABILITY CAUSED BY AND RESULTING FROM THE CONSTRUCTION OF IMPROVEMENTS AS PROVIDED IN THE ABOVE SPECIFIED DOCUMENTS.

MARIE C. LEAL, P.E.
DIRECTOR OF SPECIAL PROJECTS AND WATER / WASTEWATER ENGINEERING,
PLANNING & OPERATIONS
FOR THE BROWNSVILLE PUBLIC UTILITIES BOARD

B.P.U.B. BOARD OF DIRECTORS

GERARDO MARTINEZ	CHAIR
ALONZO "AL" VILLARREAL	VICE CHAIR
DAISY ZAMORA, Ph.D.	SECRETARY/TREASURER
ALEJANDRO NAJERA	MEMBER
JOSEPH L. HOLLMANN, Ph.D.	MEMBER
MARTIN SARKIS	MEMBER
JOHN F. COWEN JR.	EX-OFFICIO MEMBER, ELECTED

BROWNSVILLE, TEXAS



LOCATION MAP
SCALE 1" = 2000'

PREPARED BY:



1075 PAREDES LINE RD., SUITE B
BROWNSVILLE, TEXAS 78521
TEL. (956) 303-7100
www.halff.com

SHEET INDEX

SHEET #	SHEET NAME
1	COVER PAGE
2	GENERAL NOTES
3	GENERAL NOTES
4	PROJECT LAYOUT
5	KEY MAP
6	DIMENSIONAL CONTROL
PLAN & PROFILE-HIKE & BIKE TRAIL	
7	STA 127+00 TO STA 134+00 & STA 10+00 TO STA 19+00
PLAN & PROFILE-ALIGNMENT B	
8	STA 19+00 TO STA 28+00
9	STA 28+00 TO STA 43+00
10	STA 43+00 TO STA 61+00
11	STA 61+00 TO STA 76+00
12	STA 76+00 TO STA 94+50
13	STA 94+50 TO STA 111+00
14	STA 111+00 TO STA 128+50
15	STA 128+50 TO STA 144+00
PLAN & PROFILE-ROBINDALE ROAD	
16	STA 10+00 TO STA 18+50
PLAN & PROFILE-HEADWORKS	
17	STA 10+00 TO 14+00
TIE-IN INSERTS	
18	TIE-IN INSERTS A
DETAILS	
19	WASTEWATER DETAILS
20	PAVING DETAILS
21	EROSION CONTROL DETAILS

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
BROWNSVILLE, TEXAS



REVISION NO.	DATE	DESCRIPTION

PROJECT NO.: 47277.001
ISSUED: 2/20/2026
DRAWN BY: MH/ENH
CHECKED BY: JWC
SCALE: AS NOTED
SHEET TITLE:

COVER SHEET



Know what's below.
Call before you dig.

GENERAL CONSTRUCTION NOTES:

- ALL MATERIALS, WORKMANSHIP AND IMPROVEMENTS SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES, INCLUDING THE STANDARD CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS FROM BROWNSVILLE PUBLIC UTILITIES BOARD (THE OWNER), TEXAS DEPARTMENT OF TRANSPORTATION AND ALL OTHER GOVERNING AGENCIES.
- PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL SCHEDULE A PRECONSTRUCTION CONFERENCE BETWEEN THE CONSULTING ENGINEER, CONTRACTOR, CITY OF BROWNSVILLE, BROWNSVILLE PUB AND ALL AFFECTED PARTIES.
- PRE-CONSTRUCTION PHOTOGRAPHS SHALL BE TAKEN ACCORDING TO SPECIFICATION 01 32 33 - PHOTOGRAPHIC DOCUMENTATION THAT SHOW EXISTING CONDITIONS OF THE SITE AND ADJOINING STRUCTURES TO REMAIN. PHOTOS SHALL INCLUDE DAMAGE TO FINISH SURFACES THAT MIGHT BE MISCORRECTED AS DAMAGE CAUSED BY DEMOLITION OPERATIONS. (NO SEPARATE PAY)
- THE CONTRACTOR SHALL HAVE A PERSON ON CALL 24 HOURS A DAY TO ADDRESS CONSTRUCTION AREA MAINTENANCE ITEMS, TRAFFIC CONTROL, OR OTHER NEEDS NECESSARY FOR PUBLIC SAFETY. THIS PERSON SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR IN EMERGENCY CONDITIONS. THE PERSON SHALL BE STATIONED WITHIN 1/2 HOUR TRAVEL TIME FROM THE PROJECT SITE. THE PERSON SHALL BE IDENTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. THE ON-SITE REPRESENTATIVE SHALL HAVE ACCESS ALL EQUIPMENT AND MATERIAL AND HAVE FULL AUTHORITY NECESSARY TO CORRECT ANY PROBLEMS, DEFICIENCIES, OR EMERGENCIES WHICH MAY ARISE DURING NON-WORKING HOURS AND DURING THE ABSENCE OF THE SUPERINTENDENT.
- STANDARD WORK HOURS: THE STANDARD WORK HOURS FOR THE OWNER IS 8:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. SHOULD THE CONTRACTOR ELECT TO WORK ON SATURDAY, SUNDAYS OR HOLIDAYS, HE SHALL BE RESPONSIBLE FOR PAYING OVERTIME CHARGES FOR THE OWNERS PERSONNEL INVOLVED. THESE CHARGES WILL BE AT COST AND WILL BE CALCULATED EITHER AT TIME AND A HALF OR DOUBLE TIME, AS APPLICABLE TO THE PARTICULAR DAY BEING WORKED. PRE-APPROVAL SHALL BE OBTAINED FROM THE ENGINEER OR ENGINEER'S REPRESENTATIVE BY COMPLETING AND SIGNING A OWNER'S FORM ENTITLED "CONSTRUCTION INSPECTORS OVERTIME COMPENSATION AUTHORIZATION", PRIOR TO COMMENCING ANY OVERTIME WORK.
ANY WORK DONE OUTSIDE THE STANDARD WORKDAY, WITHOUT PRIOR AUTHORIZATION, SHALL BE CONSIDERED UNDER UNAUTHORIZED WORK. THE CONTRACTOR IS REQUIRED TO PAY THE OVERTIME WAGES OF THE OWNER INSPECTORS THAT WORK OVERTIME MONDAYS THROUGH FRIDAYS AT TIME IN A HALF. THE CONTRACTOR IS RESPONSIBLE FOR THE OVERTIME WAGES OF THE OWNER INSPECTORS THAT WORK HOLIDAYS AT DOUBLE TIME. MINIMUM HOURS WILL BE BILLED TO CONTRACTOR FOR CALL OUTS OR FOR INSUFFICIENT NOTICE OF TWO (2) HOURS.
- THE CONTRACTOR SHALL VERIFY ALL HORIZONTAL AND VERTICAL DIMENSIONS AND THE LOCATION OF EXISTING AND PROPOSED PROJECT ELEMENTS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER. NO CONSTRUCTION ACTIVITY SHALL CONTINUE WITHOUT APPROVAL FROM THE OWNER.
- ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR.
- CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE, EQUIPMENT, MATERIALS OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S AND/OR OWNER'S APPROVAL IN WRITING. IF APPROVAL HAS NOT BEEN OBTAINED IN WRITING PRIOR TO PROCEEDING WITH ANY CHANGE, CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.
- CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS.
- CONTRACTOR SHALL PLAN AND SEQUENCE ALL CONSTRUCTION ACTIVITY IN SUCH A MANNER THAT WILL PERMIT SAFE PEDESTRIAN AND VEHICULAR MOVEMENT.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH SPECIFICATION 01 55 26 TRAFFIC CONTROL AND REGULATION FOR APPROVAL BY THE OWNER, PRIOR TO CONSTRUCTION. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. ALL TRAFFIC CONTROL / TRAFFIC SAFETY SHALL BE IN ACCORDANCE WITH THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CRITERIA.
- CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, SIGNALS, AND OTHER DEVICES, AS NEEDED FOR THE SAFETY OF THE PUBLIC AND WORKERS. (NO SEPARATE PAY)
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SAFETY OF THE WORK SITE, WORKERS, SUBCONTRACTORS, MATERIALS AND EQUIPMENT.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURES/DESIGN. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND MEANS NECESSARY TO PROTECT PERSONS AND STRUCTURES DURING CONSTRUCTION. OBSERVATION BY THE ENGINEER OR THE OWNER DOES NOT INCLUDE REVIEW OF THESE MEASURES.
- THESE PLANS, PREPARED BY HALFF ASSOCIATES, INC., DO NOT EXTEND TO OR INCLUDE DESIGN OF SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF ASSOCIATES, INC., REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE REGULAR SESSION.
- CONTRACTOR SHALL PROVIDE A SEQUENCE OF WORK AND PERFORM ASSOCIATED GRADING THAT PROVIDES POSITIVE OUTFALLS AT ALL TIMES.
- CONSTRUCTION STAKING AND SURVEYING SHALL BE PROVIDED BY THE CONTRACTOR AND AT CONTRACTOR'S EXPENSE. ALL DIMENSIONS ARE TO BACK OF CURB OR, WHERE NO CURB EXISTS, TO EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE. ALL UTILITY DIMENSIONS AN STATIONS/COORDINATES ARE TO CENTER OF THE STRUCTURE UNLESS SHOWN OTHERWISE.
- CONTRACTOR TO COORDINATE WITH THE OWNER ON WORK SCHEDULES, TESTING, GENERAL INSPECTION, AND OPERATION AND LOCATION OF EXISTING LINES.
- THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL CONSTRUCTION MATERIALS TESTING AND GENERAL INSPECTIONS. THE CONTRACTOR SHALL COORDINATE THROUGH THE OWNERS DESIGNATED FIELD REPRESENTATIVE A MINIMUM OF 24-HOURS PRIOR TO TESTING OR INSPECTION. FAILURE TO BE PREPARED FOR TESTING MAY RESULT IN TRAVEL CHARGES. RE-TESTING WILL BE BORNE BY THE CONTRACTOR.
- MATERIAL TESTING SHALL BE PROVIDED BY THE OWNER. RE-TEST TO BE AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL INSPECT ALL MATERIALS AT DELIVERY AND NOTIFY THE OWNER OF ANY DAMAGED OR QUESTIONABLE MATERIALS. ANY DAMAGED OR QUESTIONABLE MATERIAL INSTALLED WITHOUT PRIOR INSPECTION BY THE OWNER SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COORDINATE ANY REQUIRED TEMPORARY RELOCATION OF MAILBOXES WITH THE BROWNSVILLE POSTMASTER. FINAL LOCATION SHALL BE IN ACCORDANCE WITH THE LOCAL POST OFFICE REQUIREMENTS AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED. (NO SEPARATE PAY)
- THE CONTRACTOR IS ENCOURAGED TO INSPECT AND DOCUMENT THE PRE-CONSTRUCTION CONDITION OF ALL PRIVATE DRIVEWAYS, MAILBOXES, PAVEMENT AREAS, SIDEWALKS, CURB AND GUTTER, FENCES AND ALL OTHER ITEMS TO BE AFFECTED BY PROPOSED CONSTRUCTION PRIOR TO COMMENCING.
- ANY DAMAGE TO EXISTING PAVEMENT OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRECONSTRUCTION CONDITION OR BETTER AT CONTRACTOR'S EXPENSE. EXISTING STRUCTURES MAY INCLUDE BUT ARE NOT LIMITED TO INLETS, MANHOLES, POWER POLES, SIDEWALKS, CURB AND GUTTER, FENCES, SPRINKLER SYSTEMS, LAWNS OR PRIVATE PROPERTY IMPROVEMENTS.
- NO TREES SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER OR ENGINEER, UNLESS OTHERWISE NOTED.

- CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY AND ALL EXCAVATIONS.
- CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING FACILITIES AND/OR UTILITIES. ALL DAMAGE TO BE REPAIRED AT CONTRACTOR'S EXPENSE. ALL COSTS FOR INTERRUPTION OF GAS, ELECTRICAL, COMMUNICATIONS AND/OR WATER SERVICE DUE TO CONTRACTOR'S WORK SHALL BE BORNE BY THE CONTRACTOR.
- INFORMATION ON EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES.
- ALL WORK SHALL BE PERFORMED WITHIN THE OWNER'S RIGHT-OF-WAY, EASEMENTS OR ON PUBLIC-OWNED PROPERTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION TO USE PRIVATE PROPERTY, IF NECESSARY, FOR THE PURPOSES OF STAGING, STOCKPILE, STORAGE OR REFUSE AREAS. THE CONTRACTOR SHALL PROVIDE WRITTEN EVIDENCE TO THE OWNER PRIOR TO USE.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS OR BUSINESS OWNERS OF CONSTRUCTION ACTIVITY THROUGH THE USE OF BILINGUAL (ENGLISH AND SPANISH) DOOR TAGS, PAMPHLETS OR SIMILAR METHODS. ALL AFFECTED PARTIES MUST BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A SAMPLE OF THE NOTIFICATION TO THE OWNER PRIOR TO IMPLEMENTATION.
- CONTRACTOR TO ENSURE SAME DAY ACCESS TO ALL RESIDENCES AND BUSINESSES ADJACENT TO CONSTRUCTION.
- THE CONTRACTOR SHALL DO ALL NECESSARY CLEARING, EXCAVATION, TRENCHING, SHORING, DE-WATERING, DEMOLITION, GRADING, BACKFILLING, ETC. TO COMPLETE THE PROJECT. ASSOCIATED COSTS SHALL BE SUBSIDIARY TO THE RESPECTIVE BID ITEMS AS IDENTIFIED IN THE CONTRACT UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE A GROUNDWATER CONTROL PLAN FOR APPROVAL BY THE OWNER PRIOR TO CONSTRUCTION. THE PLAN SHALL BE DEVELOPED, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS AND OUTLINE THE CONTRACTOR'S MEANS AND METHODS FOR CONTROLLING GROUNDWATER INCLUDING THE LOCATION OF ALL PROPOSED GROUNDWATER MONITORING WELLS FOR VERIFICATION PRIOR TO BEGINNING EXCAVATION FOR THE CONTRACTOR'S PROPOSED EXCAVATION SAFETY SYSTEM. ADEQUACY AND IMPLEMENTATION OF THE PLAN IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE OWNER RESERVES THE RIGHT TO REJECT PLANS. THE GROUNDWATER CONTROL PLAN WILL BE MAINTAINED IN THE OWNERS REPRESENTATIVE FILES FOR REFERENCE PURPOSES ONLY. NO REVIEW WILL BE MADE NOR IS ANY RESPONSIBILITY FOR THE PLAN ASSUMED BY THE OWNER OR THE OWNER'S REPRESENTATIVES. (NO SEPARATE PAY)
- THE CONTRACTOR SHALL PROVIDE AN EMERGENCY PLAN, IN CASE OF A LARGE RAIN EVENT OR OTHER IMPACTFUL EVENT, FOR APPROVAL BY THE OWNER PRIOR TO CONSTRUCTION. THE PLAN SHALL BE DEVELOPED, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. ADEQUACY AND IMPLEMENTATION OF THE PLAN IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE OWNER RESERVES THE RIGHT TO REJECT THE PLANS. (NO SEPARATE PAY)
- ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS. NO WATER JETTING ALLOWED, UNLESS APPROVED BY THE OWNER.
- ALL SPOIL MATERIAL AND DEBRIS SHALL BE DISPOSED OFFSITE BY THE CONTRACTOR IN A LEGAL MANNER, FURNISHING AND TRANSPORTATION OF ALL OFFSITE MATERIAL TO BE AT CONTRACTOR'S EXPENSE.
- DEMOLITION, REMOVAL AND DISPOSAL OF ALL EXCESS CONCRETE, CURBS, RUBBLE, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA AS CLEAN AS POSSIBLE. ALL ASSOCIATED DEBRIS SHALL BE COLLECTED AND PROPERLY DISPOSED OF AT THE END OF EACH WORKDAY.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO ENSURE NO AREAS OF PONDING ARE PRESENT.
- CONCRETE NOTES:
 - ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED.
 - ALL CONCRETE TO BE 3000-PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
 - ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.
 - ALL EXPOSED CONCRETE WORK TO BE CHAMFERED.
 - ALL CONCRETE USED FOR CURB AND GUTTER, CONCRETE PAVEMENT, DRIVEWAYS, SIDEWALKS AND OTHER FLAT WORK SHALL CONTAIN A MINIMUM OF 1.5 POUNDS OF FIBER MESH PER CUBIC YARD.
 - ALL EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH CURING COMPOUND RESIN BASE ASTM C 309 TYPE 2 WITH PIGMENTED TINT OF FUGITIVE DYE.
 - EXPANSION JOINTS WILL BE PLACED AT CURB RETURNS, INLETS AND AT THE END OF EACH POUR WITH INTERVALS NOT TO EXCEED 40 FT. JOINTS SHALL CONSIST OF 1/2" PRE-MOLDED EXPANSION JOINT MATERIAL WITH 3, 3/8" X 1/2" DOWELS, ONE END GREASED AND WRAPPED. CARE MUST BE TAKEN THAT DOWELS ARE STRAIGHT AND LAID PARALLEL WITH CURB AND NO CONCRETE PLUGS OR OTHER MATERIAL BE ALLOWED THROUGH THE DOWEL HOLES OR EXPANSION MATERIAL WHICH WOULD PREVENT THE JOINT FROM OPERATION AS AN EXPANSION JOINT. EXPANSION JOINT MATERIALS SHALL BE PRE-MOLDED ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL CONFORMING WITH ASTM D 994 (NOT WOOD FIBER TYPE)
 - CONTRACTION (DUMMY, SAWED OR GROVED) JOINTS SHALL BE 2" DEEP AND PLACED AT MAXIMUM OF 10-FOOT INTERVALS.
 - WHEN CONNECTING TO EXISTING CURB AND GUTTER, THE CONTRACTOR SHALL DRILL AND DOWEL TWO #6 X 16" TIE BARS A MINIMUM OF 6-INCHES DEEP INTO THE EXISTING CURB AND GUTTER SECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ALL FIELD CHANGES AND FURNISHING A LEGIBLE SET OF "AS-BUILT" DRAWINGS TO THE OWNER.
- WHEN INSTALLING ANY MANUFACTURED PRODUCT, THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDED INSTALLATION DIRECTIONS. IF ANY CONFLICTS OR DISCREPANCIES BETWEEN MANUFACTURER'S DIRECTIONS AND THE CONTRACT DOCUMENTS ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND SHALL NOT PERFORM ANY WORK ON ANY ITEM UNTIL SUCH CONFLICT HAS BEEN RESOLVED IN WRITING.

PAVING CONSTRUCTION NOTES:

- HOT MIX ASPHALT CONCRETE TO BE IN ACCORDANCE WITH SPECIFICATION 32 12 16.13, HOT MIX ASPHALTIC CONCRETE PAVEMENT.
- SUBGRADE EXCAVATION AND COMPACTION TO BE INCLUDED IN PRICE BID PER SQUARE YARD FOR "PAVEMENT BID ITEMS".
- CONTRACTOR TO SHAPE, FILL, GRADE AND COMPACT TO ENSURE PROPER DRAINAGE.
- ALL PAVEMENTS SHALL BE NEATLY SAW-CUT PARALLEL OR PERPENDICULAR TO THE PAVEMENT EDGE (NO ANGLED SAW CUTS). DAMAGE TO PAVEMENT BEYOND THE EXTENTS OF CONSTRUCTION LIMITS AS A RESULT OF FAILURE TO PROPERLY SAW-CUT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONSTRUCTION JOINTS TO EXISTING PAVEMENT SHALL BE MADE BY EITHER CUTTING BACK EXISTING TO PRODUCE A SLIGHTLY BEVELED EDGE FOR THE FULL THICKNESS OF THE WEARING COURSE OR A SUITABLE LAP JOINT SHALL BE MADE. SAW CUTTING REQUIRED.
- NO TRAFFIC SHALL BE ALLOWED ON THE FINISHED WEARING SURFACE UNTIL AT LEAST 12 HOURS, OR UNTIL THE PAVEMENT HAS COOLED TO NO LESS THAN 160° F, AFTER COMPLETION OF ROLLING.
- ANY SETTLEMENT UNDER PAVEMENT DUE TO INADEQUATE COMPACTION OF UTILITY LINE BACKFILL SHALL BE CAUSE FOR RECOMPACTION OF TRENCH AND REPLACEMENT OF PAVEMENT SECTION AT CONTRACTOR'S EXPENSE.
- HOT MIX ASPHALT CONCRETE TRANSPORT TRUCKS TO BE EQUIPPED WITH CANVAS COVERS TO BE UTILIZED DURING MATERIAL HAULING. MATERIAL DELIVERED TO SITE AT IMPROPER TEMPERATURE SHALL BE REJECTED. HOT MIX SHALL BE LAID AT A MINIMUM TEMPERATURE OF 225 DEGREES FAHRENHEIT.
- CONTRACTOR TO REPLACE ALL PAVEMENT MARKINGS AND MARKERS THAT WERE REMOVED, DEMOLISHED, OR DAMAGED DURING CONSTRUCTION. (NO SEPARATE PAY)
- CONTRACTOR SHALL "LAY DOWN" CURB SECTION AT DRIVEWAY LOCATIONS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE REQUIRED TO GRADE FROM EXISTING DRIVES AND PARKING AREAS TO MATCH GRADES AND ALLOW SMOOTH TRANSITIONS AND PROPER DRAINAGE. (NO SEPARATE PAY)

STRIPING NOTES:

- ALL SIGNS AND MARKINGS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION, UNLESS OTHERWISE SHOWN OR DIRECTED.
- THE PAVEMENT SURFACE SHALL BE MADE FREE OF DELETERIOUS MATERIAL PRIOR TO APPLICATION OF PERMANENT MARKINGS.
- ALL STRIPING SHALL BE A HI-PERFORMANCE ZONE MARKING PAINT AND SHALL BE PLACED PER MANUFACTURER RECOMMENDATIONS.

UTILITY GENERAL NOTES:

- THE TYPE, SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES DEPICTED ON THE CONSTRUCTION PLANS WERE RESEARCHED WITH RESPECT TO THE BEST AVAILABLE DATA AND THEREFORE SHOWN APPROXIMATE. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. NEITHER THE ENGINEER NOR THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE LOCATION OF THE UTILITIES SHOWN ON THE CONSTRUCTION PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY COMPANIES WITH JURISDICTION WITHIN THE LIMITS OF CONSTRUCTION FOR FIELD VERIFICATION AT NO ADDITIONAL EXPENSE TO THE OWNER. UTILITY COMPANIES TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

BROWNSVILLE PUB (956) 983-6100
 BROWNSVILLE ENGINEERING DEPT. (956) 541-1012
 TXDOT - BROWNSVILLE OFFICE (956) 542-2260
 TEXAS 811
 TEXAS GAS SERVICE (800) 959-5325
 SPECTRUM/TIME WARNER CABLE (800) 222-5355
 AT&T TEXAS (956) 630-8261
 AMERICAN ELECTRIC AND POWER (AEP) TEXAS (800) 277-2177
 MAGIC VALLEY ELECTRICAL COOPERATIVE (MVEC) (866) 225-5683
 FRONTIER COMMUNICATIONS (800) 821-8101
 CHARTER COMMUNICATIONS (866) 874-2389
 VERIZON (800) 922-0204

- CONTRACTOR SHALL EXPOSE ANY EXISTING UTILITY THAT MAY BE IN CONFLICT PRIOR TO COMMENCING CONSTRUCTION AND EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS RESPONSIBLE FOR PUBLIC AND PRIVATE UTILITIES AFFECTED BY HIS/HER OPERATIONS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL AT ALL TIMES ALLOW ACCESS TO EXISTING DRIVEWAY OR PROVIDE/MAINTAIN ALTERNATIVE ALL-WEATHER ROUTES.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
- ANY DAMAGES TO FENCES, WALKS, OR PRIVATE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- ALL CONSTRUCTION MATERIALS TESTING WILL BE COORDINATED THROUGH THE OWNER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXCAVATED MATERIAL, EXCESS CONCRETE, AND DEBRIS FROM THE CONSTRUCTION SITE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- IN ACCORDANCE WITH HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE (70th REGULAR LEGISLATIVE SESSION) THE CONTRACTOR SHALL MEET THE REQUIREMENTS FOR TRENCH SAFETY AS OUTLINED IN THE CURRENT VERSION OF THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 29 CFR, PART 1926, SUBPART P-EXCAVATIONS.
- PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN. ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. THE PLAN SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.
- IN THE EVENT CONDITIONS ENCOUNTERED IN THE FIELD REQUIRE TRENCH SAFETY SYSTEMS OUTSIDE OF THE EXTENTS SUGGESTED TRENCH PROTECTION SHOWN ON THE CONSTRUCTION PLANS, ALL EXCAVATION SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A REVISED TRENCH SAFETY PLAN. NO EXCAVATION SHALL RESUME UNTIL THE REVISED TRENCH SAFETY PLAN HAS BEEN APPROVED. (NO SEPARATE PAY)
- THE CONTRACTOR SHALL ENSURE APPROVED TRENCH SAFETY PLANS ARE IMPLEMENTED. FAILURE TO ADHERE TO THE TRENCH SAFETY PLAN WILL RESULT IN A STOP WORK ORDER. NON-COMPLIANCE INCIDENTS MAY BE REPORTED TO OSHA.
- TRENCHES OR EXCAVATIONS MAY NOT BE LEFT OPEN OVERNIGHT UNLESS AUTHORIZED IN WRITING BY THE OWNER. IN CASES WHERE TRENCHES ARE LEFT OPEN, THE CONTRACTOR MUST PROVIDE TRAFFIC-RATED, ANCHORED STEEL PLATE COVERS APPROVED BY THE OWNER.
- CONTRACTOR SHALL PROTECT AND SUSPEND ALL EXISTING UTILITIES TO REMAIN.
- ALL UTILITIES SHALL REMAIN IN SERVICE AT ALL TIMES. THE PROTECTION, TEMPORARY BYPASS PUMPING, ETC. OF ALL UTILITIES SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS.

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNSVILLE, TEXAS



REVISION NO.	DATE	DESCRIPTION



PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	GENERAL NOTES



FILE NAME: A:\47000s\47277\001\CAD\Drawings\Phase 1\C-COVER-47277.dwg DATE: February 20, 2026, TIME: 4:50 PM, USER: ah3893 AVO: 47277

UTILITY NOTES

1. ALL CONSTRUCTION OPERATIONS TO BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE.
2. ELECTRICAL LINES ARE LOCATED IN THE PROJECT AREA. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO STATE LAW (VERNON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436 (C)) CONCERNING CONSTRUCTION OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES.
3. ANY CHANGES OR REVISIONS TO THE UTILITY DESIGN MUST FIRST BE SUBMITTED TO THE BROWNSVILLE PUBLIC UTILITY BOARD FOR REVIEW AND WRITTEN APPROVAL.
4. THE CONTRACTOR SHALL GIVE THE BROWNSVILLE PUBLIC UTILITY BOARD 24 HOUR ADVANCE NOTICE PRIOR TO PLACEMENT OF ANY CONCRETE, TO PERMIT THE REVIEW OF FORMS, REINFORCING STEEL PLACEMENT, AND OTHER PREPARATIONS.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF BROWNSVILLE PUBLIC UTILITY BOARD STANDARD SPECIFICATIONS.
6. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, ALL UTILITY CONCRETE IS TO BE CLASS "K" (4000 PSI)-28 DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 GRADE 60.
7. MAXIMUM LENGTH OF OPEN TRENCH TO BE 60', OR AS DIRECTED BY THE OWNER.

WASTEWATER NOTES

1. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO DETAILS AND THE MANUFACTURER'S RECOMMENDATION.
2. EXISTING WASTEWATER LINES SHALL BE KEPT IN SERVICE UNTIL PROPOSED WASTEWATER SYSTEM IMPROVEMENTS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER.
3. ALL SEWER LINES, MANHOLES AND FORCE MAINS SHALL BE TESTED IN ACCORDANCE WITH TCEQ CHAPTER 217.57 REGULATIONS AND SPECIFICATION 33 31 11 - SANITARY SEWER PIPEWORK.

THE OWNER RETAINS THE RIGHTS TO TELEWISE THE LINE TO DETERMINE THE CONDITION OF THE SEWER LINE PRIOR TO FINAL ACCEPTANCE, IN ACCORDANCE WITH SPECIFICATION 33 31 11 - SANITARY SEWER PIPEWORK.
4. THE CONTRACTOR SHALL PERFORM QUALITY TESTING FOR THE WATER AND WASTEWATER SYSTEM INSTALLED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS AT HIS EXPENSE. BROWNSVILLE P.U.B. TO BE GIVEN 48 HRS NOTICE PRIOR TO ALL TESTING AND SHALL BE MONITORED BY BROWNSVILLE PUB PERSONNEL. TESTING IS TO BE DONE IN ACCORDANCE WITH B.P.U.B. STANDARDS.

ABANDONMENT OF EXISTING SANITARY SEWER SYSTEM NOTES

1. ALL SANITARY SEWER MANHOLES AND PIPING TO BE ABANDONED IN PLACE SHALL BE JETTED AND PUMPED CLEAN OF SEWAGE AND SLUDGE BY A TCEQ CERTIFIED HAULER. ALL SEWAGE SHALL BE DISPOSED OF ACCORDING TO TCEQ RULES.
2. FLOWABLE FILL SHALL BE USED TO FILL ALL ABANDONED IN PLACE PIPES, AS PER SPECIFICATION 02 80 10 - ABANDONMENT OF SEWER.

UTILITY TESTING NOTES

1. BROWNSVILLE PUBLIC UTILITY BOARD TO BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING OF WATER LINES, WASTEWATER LINES, AND DENSITY TESTING. REFER TO SPECIFICATION 33 31 11 AND TCEQ NOTES FOR TESTING REQUIREMENTS. ALL TESTING TO BE CONDUCTED IN PRESENCE OF B.P.U.B. INSPECTOR.
2. ALL SANITARY SEWERS, EXCLUDING SERVICE LINES, SHALL BE MANDREL TESTED PER TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CRITERIA. MANDREL TEST SHALL NOT BE PERFORMED UNTIL BACKFILL HAS BEEN IN PLACE FOR A MINIMUM OF 30 DAYS.
3. SOIL DENSITY TESTS AND RELATED SOIL ANALYSIS TESTS TO BE ACCOMPLISHED BY AN INDEPENDENT LABORATORY UNDER CONTRACT WITH THE OWNER. TESTS WHICH SHOW UNSATISFACTORY RESULTS ARE TO BE REPEATED AT THE EXPENSE OF THE CONTRACTOR SUBSEQUENT TO CONTRACTOR'S REMEDIAL ACTIVITIES.
4. DENSITY TESTING OF COMPACTED SUBGRADE MATERIAL FOR FIRST COURSE, AND SECOND COURSE OF COMPACTED BASE SHALL BE MADE AT ALL DRIVEWAYS AND INTERSECTING STREETS. IN ADDITION, ONE (1) DENSITY TEST PER LIFT PER FIVE HUNDRED (500) FEET OF INSTALLED PIPELINE SHALL BE CONDUCTED.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL OBTAIN A SWPPP PERMIT AND POST IT AT THE CONSTRUCTION SITE, IN ACCORDANCE WITH SPECIFICATION 01 57 13 TEMPORARY EROSION AND SEDIMENTATION CONTROL AND 01 57 23 - TDPS REQUIREMENTS, PRIOR TO CONSTRUCTION.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBING ACTIVITY.
3. ALL EFFORTS SHALL BE MADE TO CONTAIN DISTURBED SOILS WITHIN THE EXTENTS OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES.
4. THE CONTRACTOR SHALL SEQUENCE ALL CONSTRUCTION IN SUCH A MANNER AS TO MINIMIZE THE AMOUNT AND EXTENTS OF DISTURBED EARTH.
5. A STABILIZED CONSTRUCTION EXIT IS REQUIRED AT ALL POINTS OF DESIGNATED EGRESS FROM THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION(S) UNLESS OTHERWISE NOTED ON THE PLANS. THE LOCATION(S) OF THE STABILIZED CONSTRUCTION EXIT(S) MAY BE MODIFIED WITH RESPECT TO THE SEQUENCE OF CONSTRUCTION.
6. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY MAINTAINED DURING THE COURSE OF THEIR INTENDED USE.
7. ALL STAGING, MATERIAL STORAGE, STOCKPILE AND REFUSE AREAS SHALL REQUIRE APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES.
8. ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED WITHIN APPROPRIATE RECEPTACLES (ROLL-OFF CONTAINERS, DUMPSTERS, TRASH CANS, WIRE-MESH CAGES, ETC.) AND CONFINED WITHIN PERIMETER EROSION AND SEDIMENT CONTROLS.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE DURING THE COURSE OF EARTH DISTURBING ACTIVITY AND UNTIL FINAL STABILIZATION IS ACHIEVED. STRUCTURAL MEASURES MAY BE REMOVED ONLY UPON FINAL PROJECT ACCEPTANCE BY THE OWNER OR AS DIRECTED BY THE OWNER.
10. PERMANENT STABILIZATION SHALL BEGIN AS SOON AS PRACTICABLE OR AS DIRECTED BY THE OWNER.
11. DUST CONTROL SHALL BE IMPLEMENTED AS NECESSARY OR AS DIRECTED BY THE OWNER. DUST CONTROL MAY CONSIST OF WATERING OR OTHER METHODS APPROVED BY THE OWNER. DUST CONTROL AND ASSOCIATED WATERING OR OTHER METHOD SHALL BE SUBSIDIARY TO THE EROSION CONTROL BID ITEM IN THE UNIT PRICE SCHEDULE.
12. TRACKED DEBRIS SHALL BE SWEEPED AT THE END OF EACH WORKDAY OR AS DIRECTED BY THE OWNER.
13. ALL DISCHARGES ASSOCIATED WITH DEWATERING OPERATIONS SHALL IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES. MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SEDIMENTATION BASINS OR FILTER SOCKS.
14. CONCRETE WASH-WATER SHALL NOT BE DISCHARGED DIRECTLY INTO A STORM SEWER SYSTEM OR RECEIVING STREAM. ALL WASH ACTIVITIES MUST BE PERFORMED WITHIN THE EXTENTS OF ESTABLISHED EROSION AND SEDIMENT CONTROL MEASURES OR DESIGNATED AREAS APPROVED BY THE OWNER.
15. SEDIMENT SHALL BE CLEARED FROM ALL STORM SEWER PIPES, CULVERTS AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO FINAL PROJECT ACCEPTANCE. SEDIMENT SHALL BE PROPERLY DISPOSED.
16. STAGING, STOCKPILE AND EQUIPMENT STORAGE AREAS SHALL NOT BE LOCATED WITHIN THE EXTENTS OF ANY TREE DRILINES.

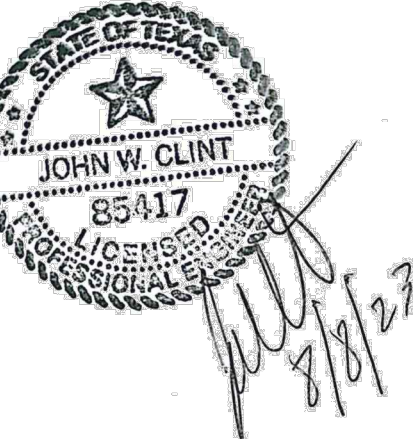
LEGEND

	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	BARBED WIRE FENCE LINE
	METAL FENCE LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING STORM SEWER LINE
	EXISTING WASTE WATER LINE
	EXISTING FORCE MAIN
	EXISTING FIBER OPTIC
	EXISTING AT&T LINE
	EXISTING BANK LINE
	EXISTING EDGE OF WATER
	EXISTING RIGHT-OF-WAY
	EXISTING SURVEY CENTERLINE
	EXISTING ROAD CENTER STRIPE
	EXISTING EASEMENT
	PROPOSED 24" FORCE MAIN
	PROPOSED 30" FORCE MAIN
	PROPOSED EASEMENT
	SANITARY SEWER MANHOLE
	WATER VALVE
	WATER METER
	GAS METER
	GAS VALVE
	FIRE HYDRANT
	SANITARY CLEAN OUT
	LIGHT POLE
	ELECTRIC BOX
	POWER POLE
	GUY WIRE
	LIGHT POLE
	TRAFFIC SIGN
	BOLLARD
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	GRAVEL

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
BROWNSVILLE, TEXAS



REVISION NO.	DATE	DESCRIPTION



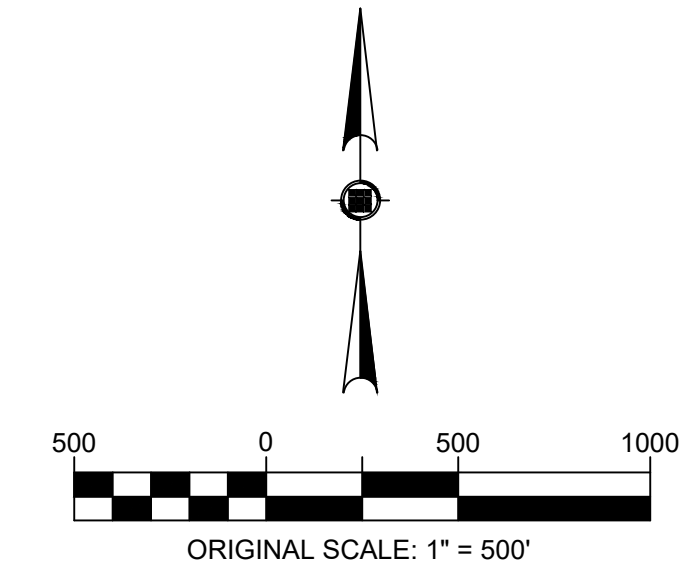
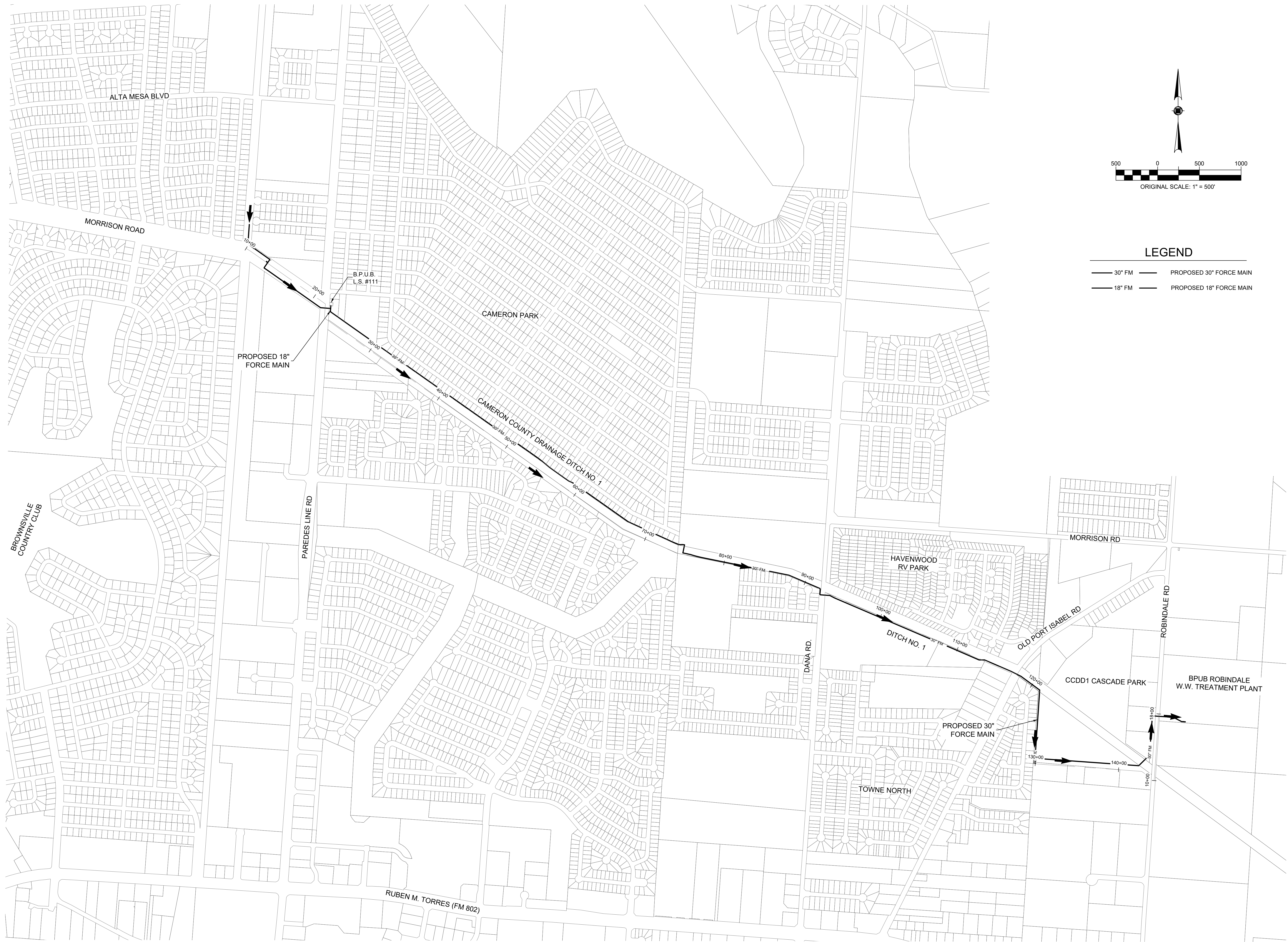
PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	

GENERAL NOTES



Know what's below.
Call before you dig.

FILE NAME: A:\17000\47277\001\CADD\sheet\broPhase 1\C-OVERALL-47277.001.dwg DATE: February 20, 2026. TIME: 4:51 PM. USER: ah3893 AVO: 47277



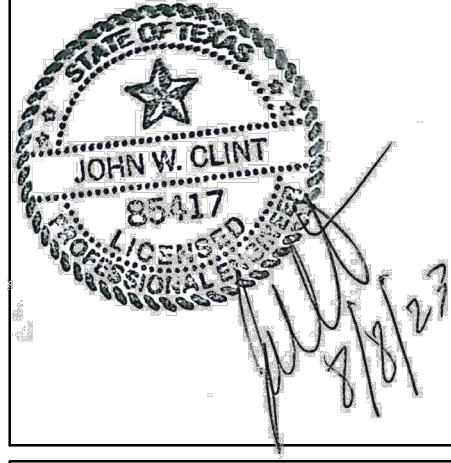
LEGEND

- 30" FM — PROPOSED 30" FORCE MAIN
- 18" FM — PROPOSED 18" FORCE MAIN

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNSVILLE, TEXAS



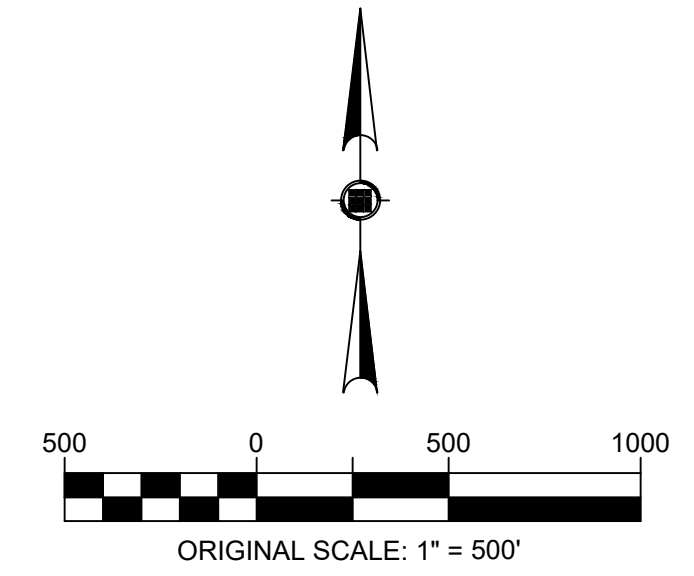
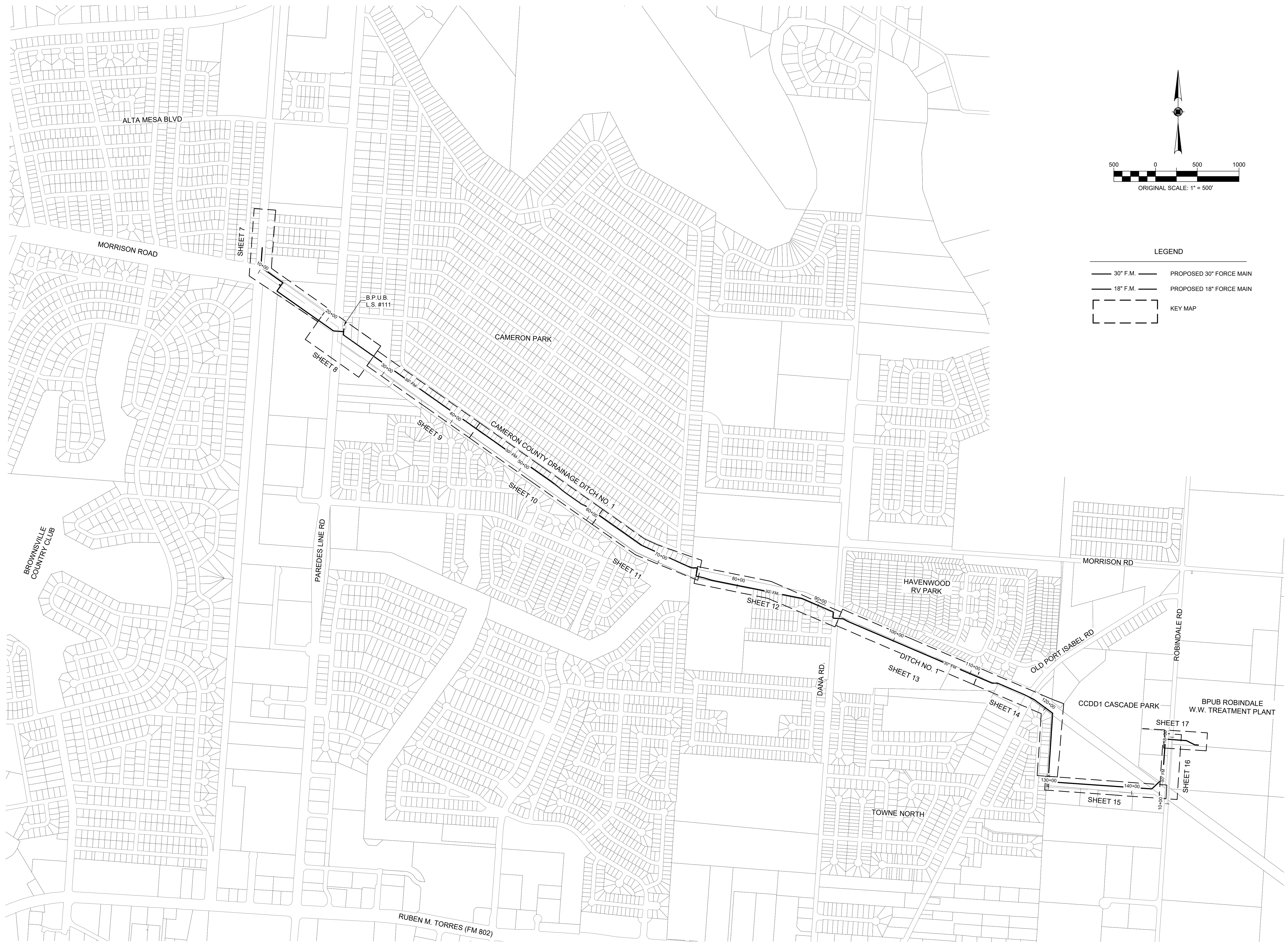
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 47277.001
 ISSUED: 2/20/2026
 DRAWN BY: MH/ENH
 CHECKED BY: JWC
 SCALE: 1" = 500'
 SHEET TITLE:

PROJECT LAYOUT

FILE NAME: A:\17000\47277\001\CADD\sheetbroPhase 1\C-Overall-47277.001.dwg DATE: February 20, 2026, TIME: 4:51 PM, USER: ah3893 AVO: 47277

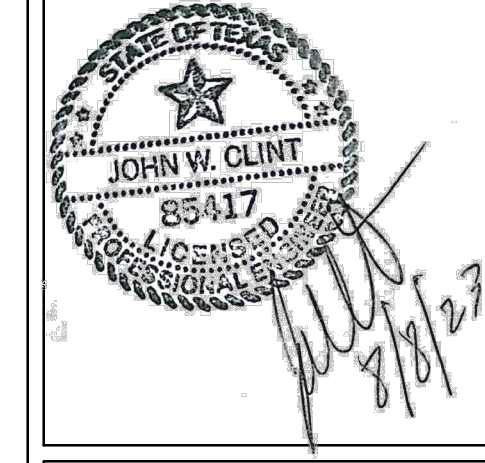


- LEGEND
- 30" F.M. — PROPOSED 30" FORCE MAIN
 - - - 18" F.M. - - - PROPOSED 18" FORCE MAIN
 - [] KEY MAP

BROWNVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNVILLE, TEXAS



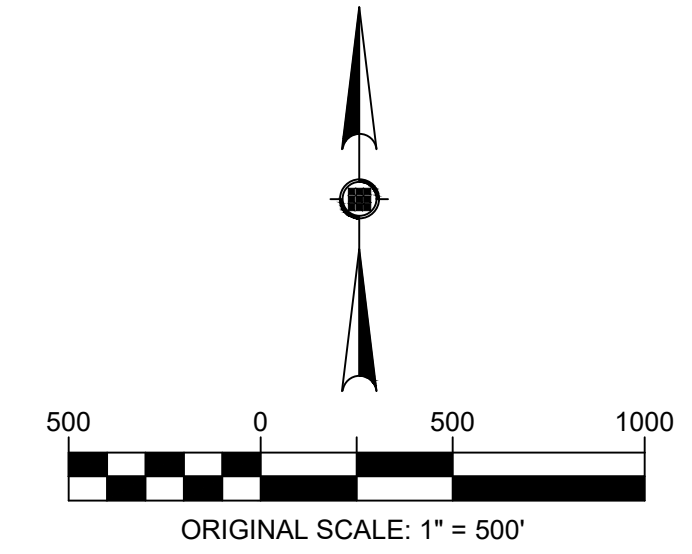
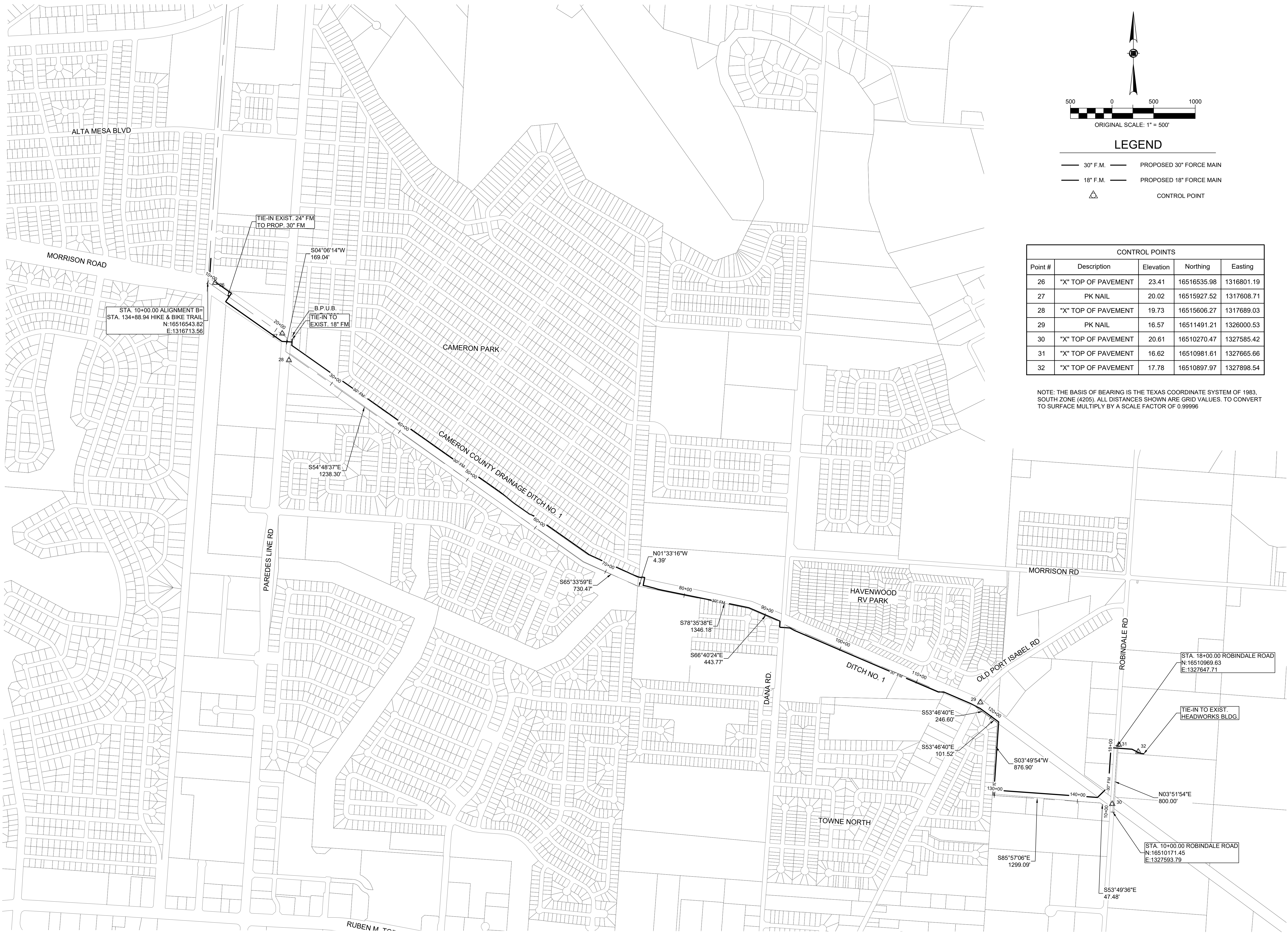
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 47277.001
 ISSUED: 2/20/2026
 DRAWN BY: MH/ENH
 CHECKED BY: JWC
 SCALE: 1" = 500'
 SHEET TITLE:

KEY MAP

FILE NAME: A:\17000\47277\001\CADD\sheetbroPhase 1\C-OVERALL-47277.001.dwg DATE: February 20, 2026, TIME: 4:52 PM, USER: ah3893 AVO: 47277



LEGEND

- 30" F.M. — PROPOSED 30" FORCE MAIN
- 18" F.M. — PROPOSED 18" FORCE MAIN
- △ CONTROL POINT

CONTROL POINTS

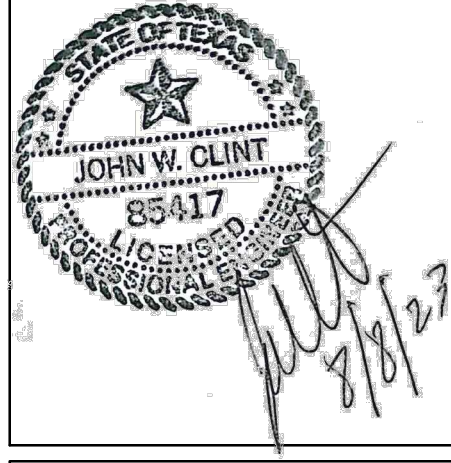
Point #	Description	Elevation	Northing	Easting
26	"X" TOP OF PAVEMENT	23.41	16516535.98	1316801.19
27	PK NAIL	20.02	16515927.52	1317608.71
28	"X" TOP OF PAVEMENT	19.73	16515606.27	1317689.03
29	PK NAIL	16.57	16511491.21	1326000.53
30	"X" TOP OF PAVEMENT	20.61	16510270.47	1327585.42
31	"X" TOP OF PAVEMENT	16.62	16510981.61	1327665.66
32	"X" TOP OF PAVEMENT	17.78	16510897.97	1327898.54

NOTE: THE BASIS OF BEARING IS THE TEXAS COORDINATE SYSTEM OF 1983, SOUTH ZONE (4205). ALL DISTANCES SHOWN ARE GRID VALUES. TO CONVERT TO SURFACE MULTIPLY BY A SCALE FACTOR OF 0.99996

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNSVILLE, TEXAS



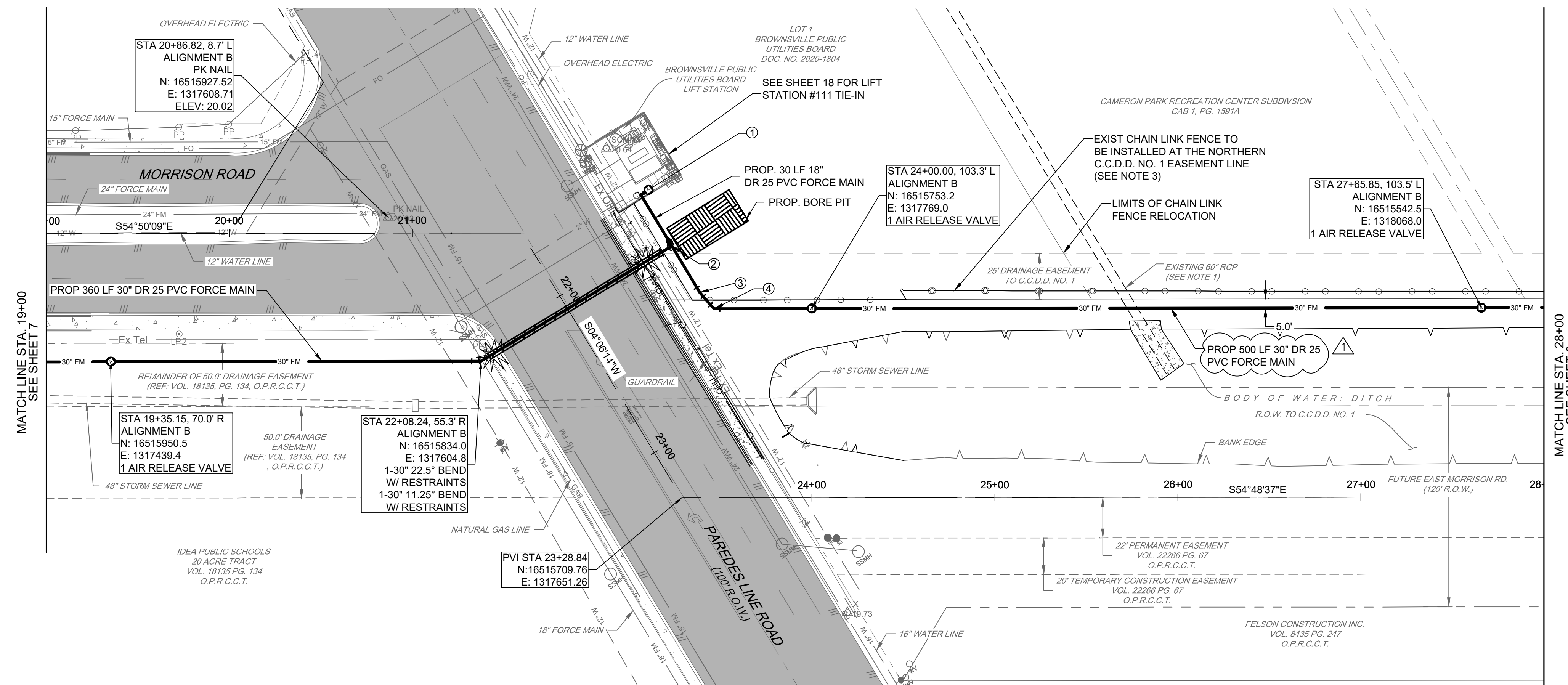
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 47277.001
 ISSUED: 2/20/2026
 DRAWN BY: MH/ENH
 CHECKED BY: JWC
 SCALE: 1" = 500'
 SHEET TITLE:

DIMENSIONAL CONTROL

FILE NAME: A:\47006\47277\001\CADD\sheet\Phase 1\C-P&P-H&B 2-47277.001.dwg DATE: February 20, 2026, TIME: 4:55 PM, USER: ah3893, AVO: 47277



!!CAUTION!!
EXISTING OVERHEAD ELECTRIC & UNDERGROUND GAS LINES

ORIGINAL SCALE: 1" = 40'

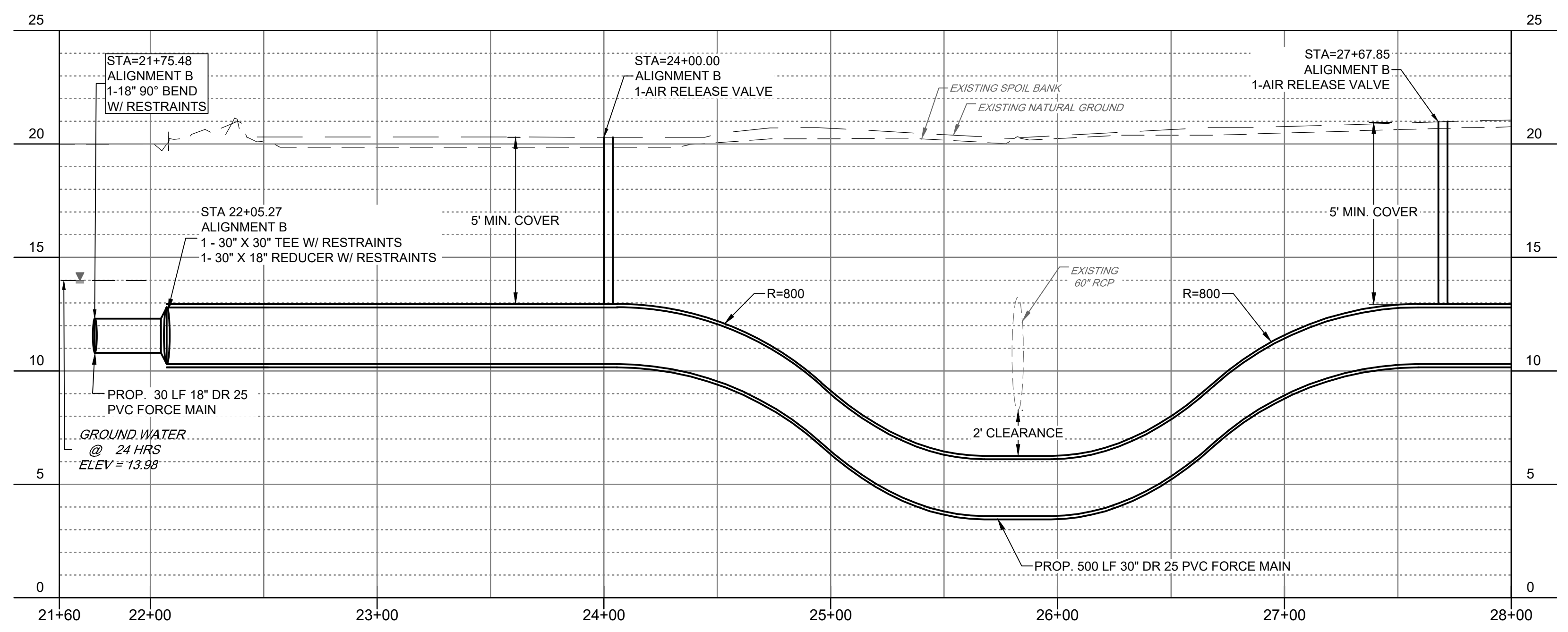
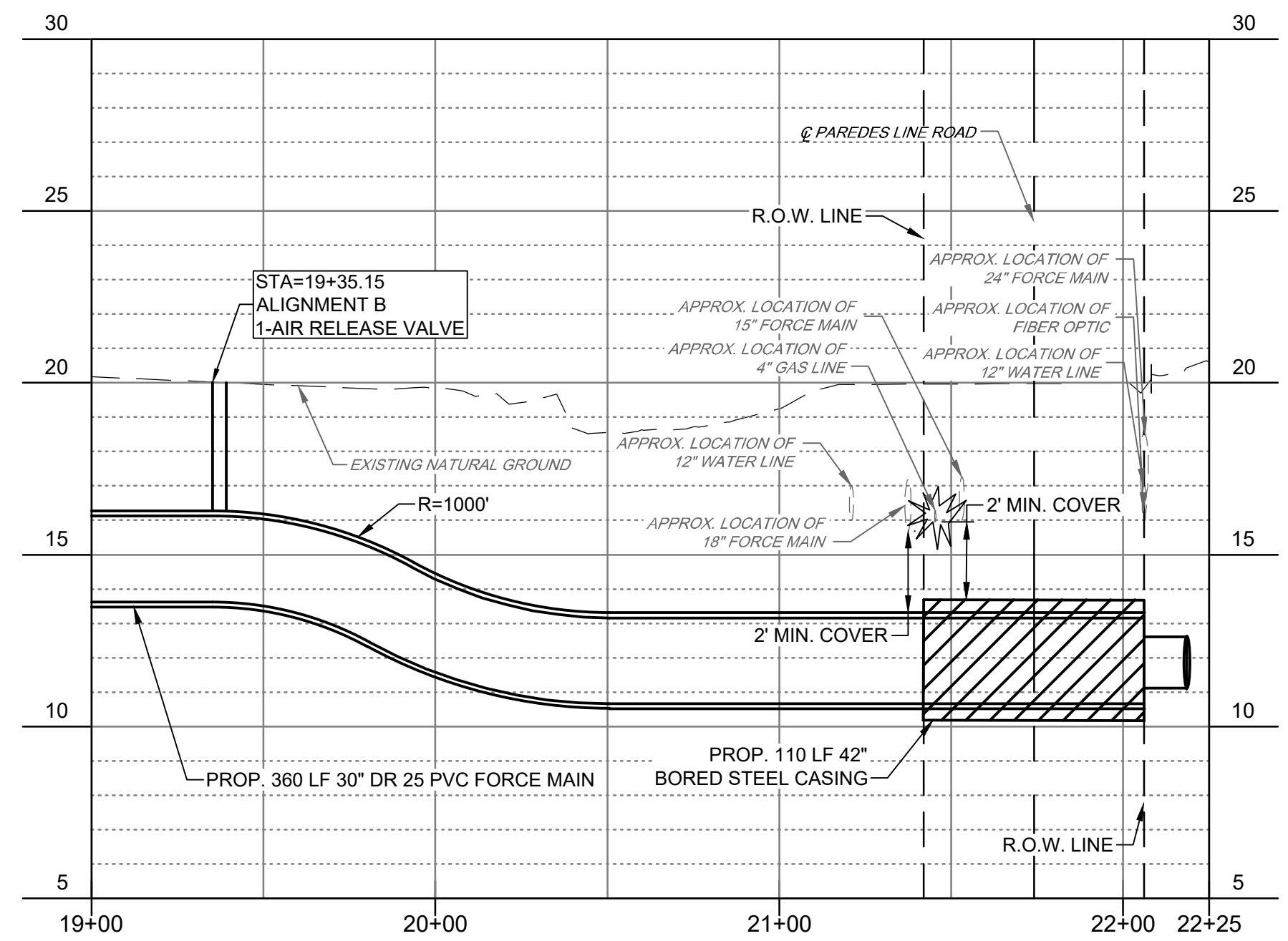
LEGEND

- CHAIN LINK FENCE LINE
- WOOD FENCE LINE
- BARBED WIRE FENCE LINE
- METAL FENCE LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING STORM SEWER LINE
- EXISTING WASTE WATER LINE
- EXISTING FORCE MAIN
- EXISTING FIBER OPTIC
- EXISTING AT&T LINE
- EXISTING BANK LINE
- EXISTING EDGE OF WATER
- EXISTING RIGHT-OF-WAY
- EXISTING SURVEY CENTERLINE
- EXISTING EASEMENT
- PROPOSED 30" FORCE MAIN
- PROPOSED EASEMENT
- SANITARY SEWER MANHOLE
- BILLBOARD
- WATER VALVE
- WATER METER
- GAS METER
- GAS VALVE
- FIRE HYDRANT
- SANITARY CLEAN OUT
- LIGHT POLE
- ELECTRIC BOX
- POWER POLE
- GUY WIRE
- LIGHT POLE
- TRAFFIC SIGN
- BOLLARD
- TREE
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- GRAVEL
- UTILITY X-ING

- ① STA 21+75.48, 66.5' L
ALIGNMENT B
N: 16515858.0
E: 1317728.6
1-18" 90° BEND
W/ RESTRAINTS
1-AIR RELEASE VALVE
- ② STA 22+08.27, 66.6' L
ALIGNMENT B
N: 16515825.3
E: 1317726.3
1-30" X 30" TEE
W/ RESTRAINTS
1-18" X 30" REDUCER
W/ RESTRAINTS
- ③ STA 22+37.86, 66.43' L
ALIGNMENT B
N: 16515795.8
E: 1317724.0
1-30" TEE
W/ RESTRAINTS
- ④ STA 22+49.62, 68.7' L
ALIGNMENT B
N: 16515783.9
E: 1317725.5
1-30" 45° BEND
W/ RESTRAINTS

NOTE:

- EXIST. RCP SHALL BE REMOVED AND REPLACED IF NEEDED. (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)
- CONTRACTOR SHALL RETURN THE SITE TO PRE-CONSTRUCTION CONDITIONS (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF FENCES (ON A LIKE-FOR-LIKE BASIS) THAT ENCRUSH UPON THE CAMERON COUNTY DRAINAGE DISTRICT NO. 1 NORTH RIGHT-OF-WAY, WHERE FEASIBLE. THE CONTRACTOR SHALL COORDINATE ALL FENCE REPLACEMENT ACTIVITIES WITH BPUB, DRAINAGE DISTRICT AND RESPECTIVE PROPERTY OWNER.



811
Know what's below.
Call before you dig.

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
BROWNSVILLE, TEXAS

BROWNSVILLE PUBLIC UTILITIES BOARD

half
1074 PAREDES LINE RD., SUITE B
BROWNSVILLE, TEXAS 77821-2696
TEL: (956) 867-7100

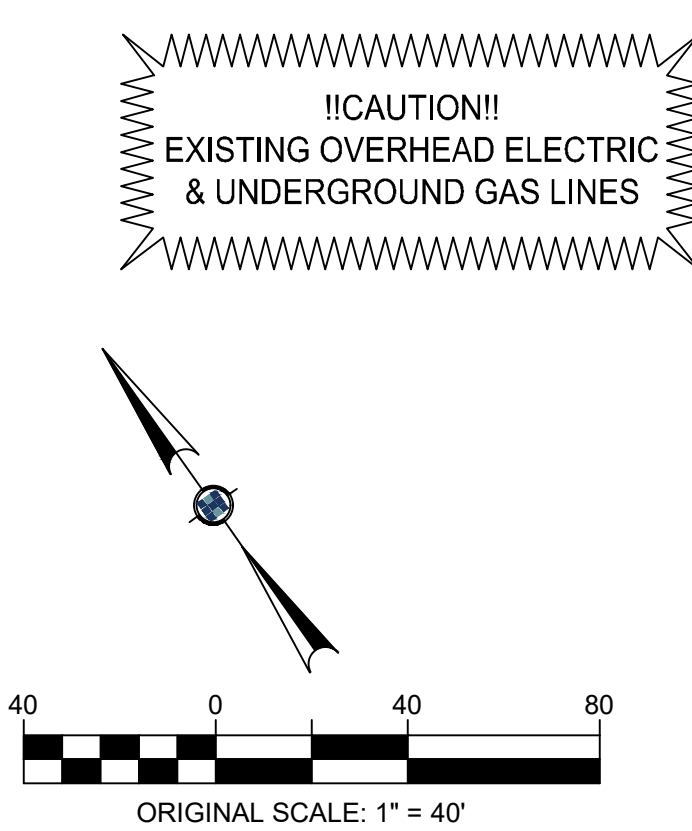
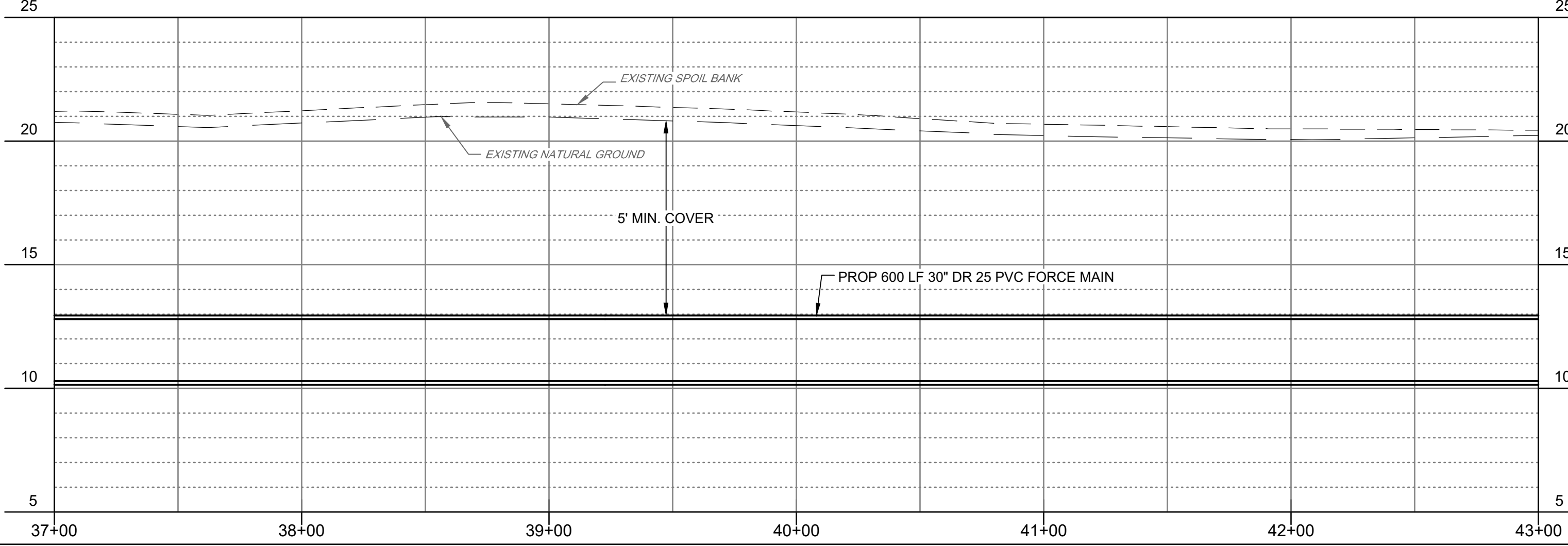
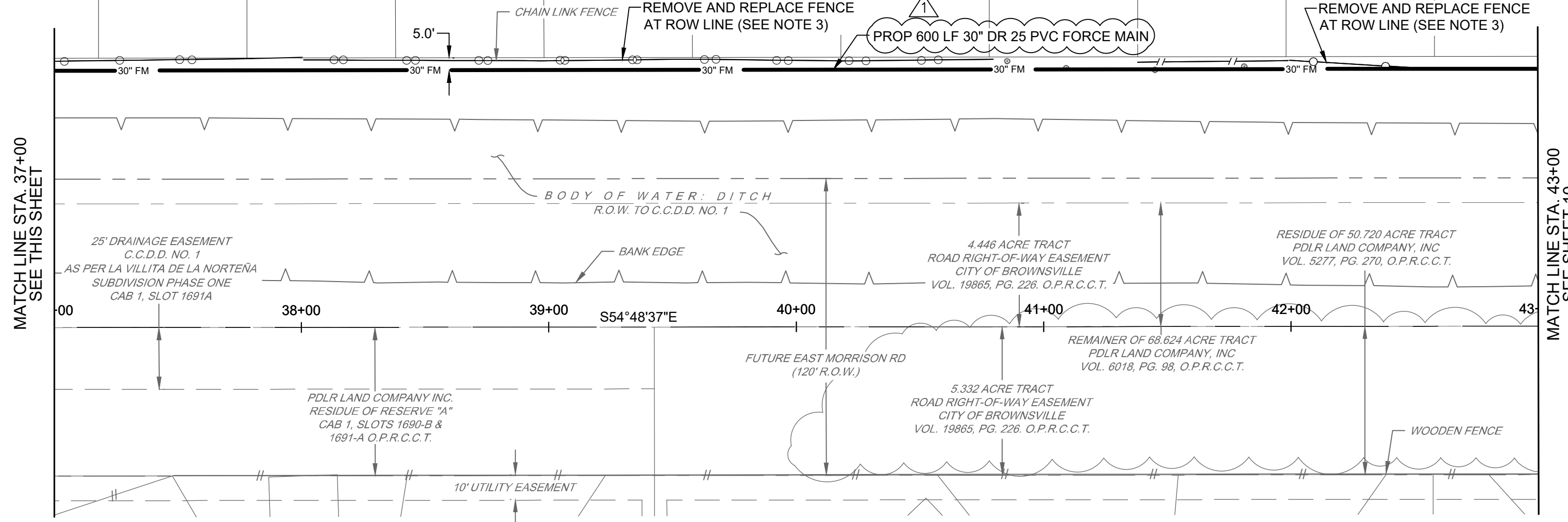
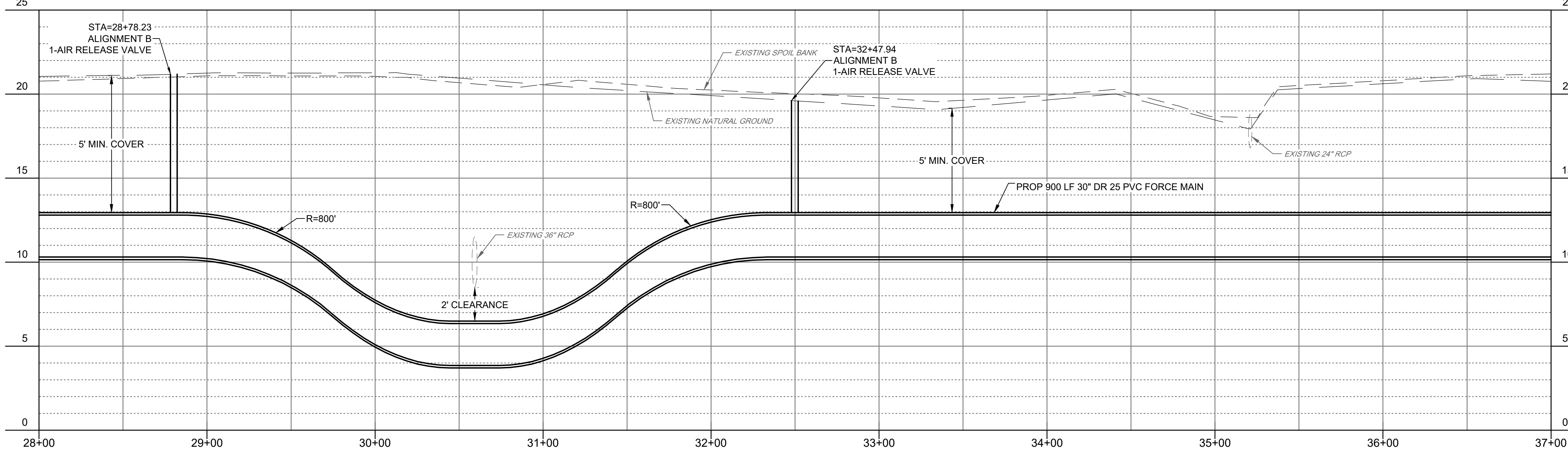
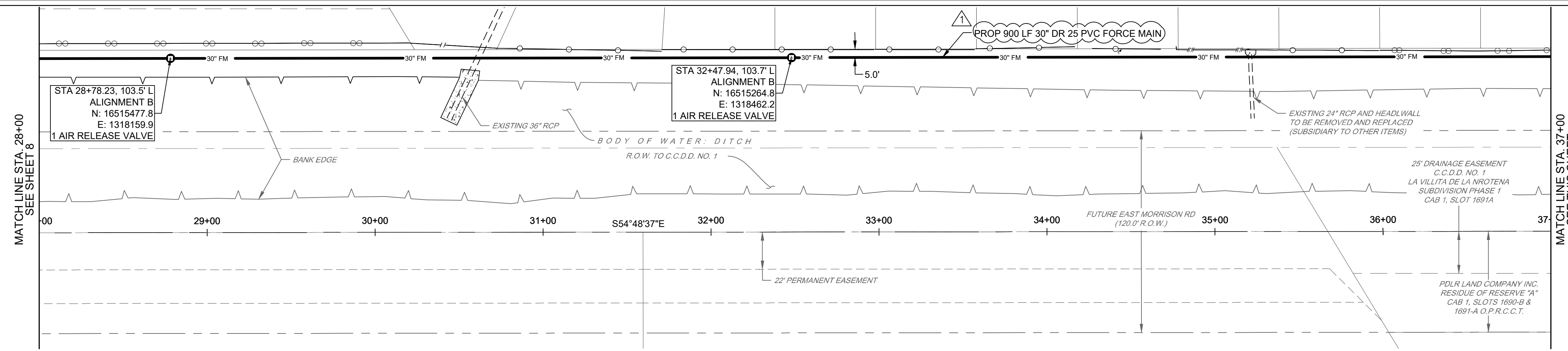
REVISION NO.	DATE	DESCRIPTION
1	2/12/2026	FORCE MAIN ALIGNMENT CHANGE

85:17
JOHN H. CLINT
02/12/26

PROJECT NO.: 47277.001
ISSUED: 2/20/2026
DRAWN BY: MH/ENH
CHECKED BY: JWC
SCALE: AS NOTED
SHEET TITLE: PLAN & PROFILE - HIKE & BIKE TRAIL
STA 19+00 TO 28+00

8

FILE NAME: A:\17000947277001\CADD\sheetbroPhase 1C-P&P-H&B 2-47277.001.dwg DATE: February 20, 2026, TIME: 4:57 PM, USER: ah3893 AVO: 47277



LEGEND

	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	BARBED WIRE FENCE LINE
	METAL FENCE LINE
	EXISTING GAS LINE
	EXISTING STORM SEWER LINE
	EXISTING WASTE WATER LINE
	EXISTING FORCE MAIN
	EXISTING FIBER OPTIC
	EXISTING AT&T LINE
	EXISTING BANK LINE
	EXISTING EDGE OF WATER
	EXISTING RIGHT-OF-WAY
	EXISTING SURVEY CENTERLINE
	EXISTING EASEMENT
	PROPOSED 30" FORCE MAIN
	PROPOSED EASEMENT
	SANITARY SEWER MANHOLE
	BILLBOARD
	WATER VALVE
	WATER METER
	GAS METER
	GAS VALVE
	FIRE HYDRANT
	SANITARY CLEAN OUT
	LIGHT POLE
	ELECTRIC BOX
	POWER POLE
	GUY WIRE
	LIGHT POLE
	TRAFFIC SIGN
	BOLLARD
	TREE
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	GRAVEL
	UTILITY X-ING

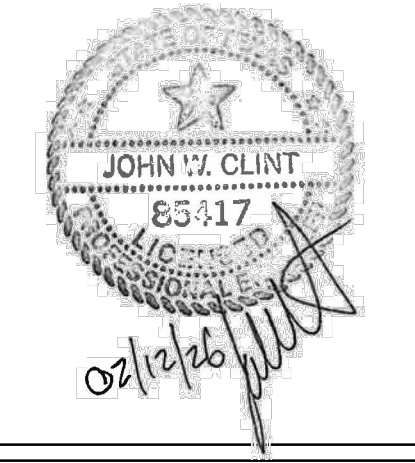
- NOTE:**
- EXIST. RCP SHALL BE REMOVED AND REPLACED IF NEEDED. (SUBSIDIARY TO OTHER ITEMS. NO SEPARATE PAY.)
 - CONTRACTOR SHALL RETURN THE SITE TO PRE-CONSTRUCTION CONDITIONS (SUBSIDIARY TO OTHER ITEMS. NO SEPARATE PAY.)
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF FENCES (ON A LIKE-FOR-LIKE BASIS) THAT ENCROACH UPON THE CAMERON COUNTY DRAINAGE DISTRICT NO. 1 NORTH RIGHT-OF-WAY, WHERE FEASIBLE. THE CONTRACTOR SHALL COORDINATE ALL FENCE REPLACEMENT ACTIVITIES WITH BPUB, DRAINAGE DISTRICT AND RESPECTIVE PROPERTY OWNER.

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNSVILLE, TEXAS



half
 1078 PARADES LINE RD., SUITE B
 BROWNSVILLE, TEXAS 77821-2696
 TEL: (936) 863-7100

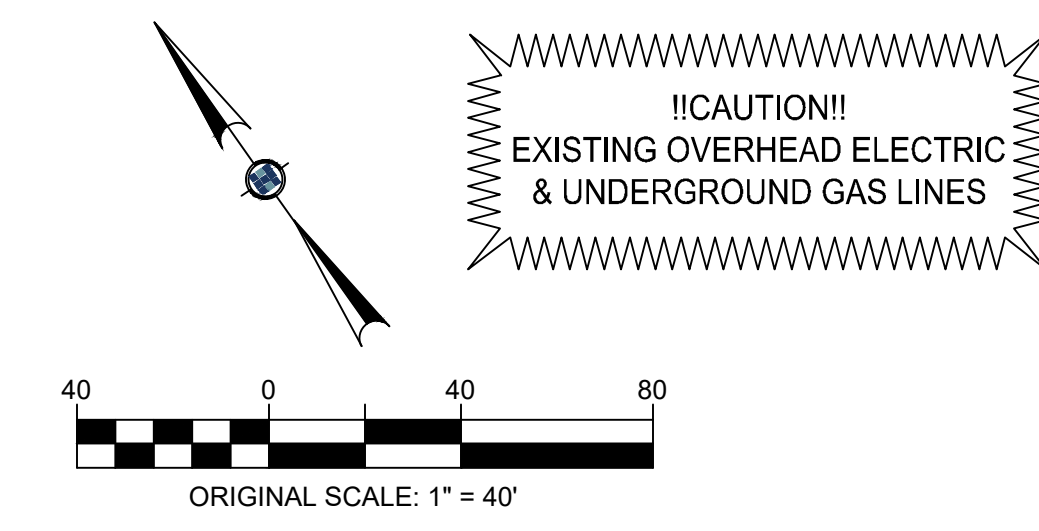
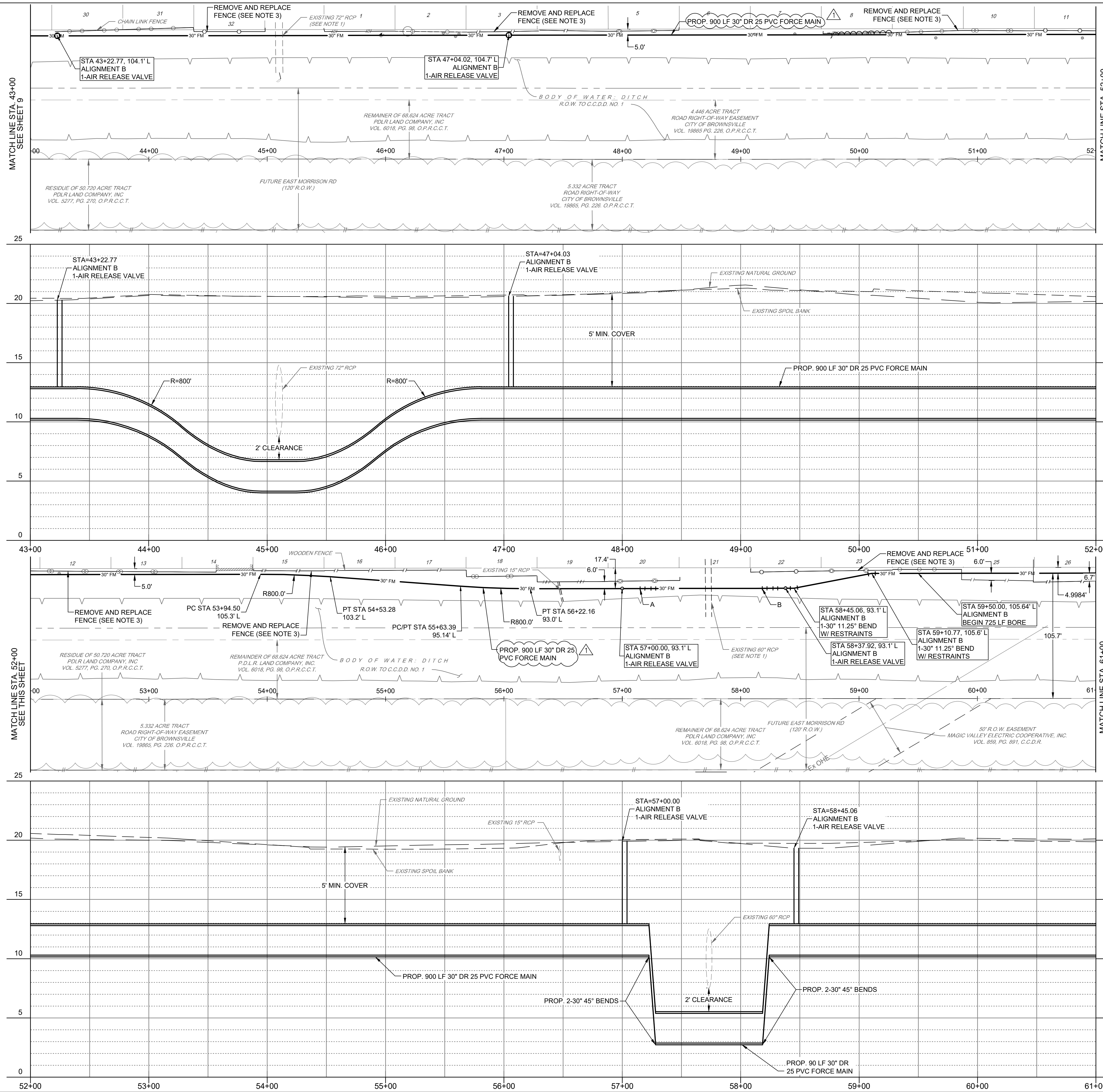
REVISION NO.	DATE	DESCRIPTION
1	2/20/2026	FORCE MAIN ALIGNMENT CHANGE



PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	PLAN & PROFILE - HIKE & BIKE TRAIL
	STA 28+00 TO 43+00



FILE NAME: A:\17000\47277\001\CADD\sheet\broPhase 1\C-P&P-MORRISON & DD-47277.001.dwg DATE: February 20, 2026, TIME: 4:59 PM, USER: ah3893 AVO: 47277



LEGEND

	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	BARBED WIRE FENCE LINE
	METAL FENCE LINE
	OVERHEAD ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING STORM SEWER LINE
	EXISTING WASTE WATER LINE
	EXISTING FORCE MAIN
	EXISTING FIBER OPTIC
	EXISTING AT&T LINE
	EXISTING BANK LINE
	EXISTING EDGE OF WATER
	EXISTING RIGHT-OF-WAY
	EXISTING SURVEY CENTERLINE
	EXISTING ROAD CENTER STRIPE
	EXISTING EASEMENT
	PROPOSED 30' FORCE MAIN
	PROPOSED EASEMENT
	SANITARY SEWER MANHOLE
	WATER VALVE
	WATER METER
	GAS METER
	GAS VALVE
	FIRE HYDRANT
	SANITARY CLEAN OUT
	LIGHT POLE
	ELECTRIC BOX
	POWER POLE
	GUY WIRE
	LIGHT POLE
	TRAFFIC SIGN
	BOLLARD
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	GRAVEL
	GAS/ELECTRIC X-ING

NOTE:
 1. EXIST. RCP SHALL BE REMOVED AND REPLACED IF NEEDED. (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)
 2. CONTRACTOR SHALL RETURN THE SITE TO PRE-CONSTRUCTION CONDITIONS (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF FENCES (ON A LIKE-FOR-LIKE BASIS) THAT ENCROACH UPON THE CAMERON COUNTY DRAINAGE DISTRICT NO. 1 NORTH RIGHT-OF-WAY, WHERE FEASIBLE. THE CONTRACTOR SHALL COORDINATE ALL FENCE REPLACEMENT ACTIVITIES WITH BPUB, DRAINAGE DISTRICT AND RESPECTIVE PROPERTY OWNER.

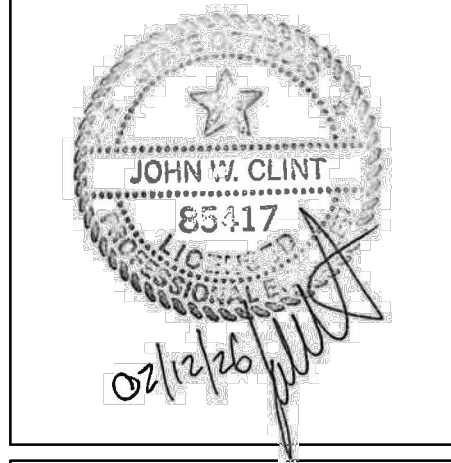
- A. STA 57+15.19, 93.1' L ALIGNMENT B 1-30° 45' BEND W/ RESTRAINTS
- B. STA 58+18.27, 93.1' L ALIGNMENT B 1-30° 45' BEND W/ RESTRAINTS

BROWNSVILLE P.U.B.
 NORTH REGIONAL FORCE MAIN
 PHASE 1
 BROWNSVILLE, TEXAS



half
 1078 PAREDES LINE RD., SUITE B
 BROWNSVILLE, TEXAS 77821-2696
 TEL: (956) 863-7100

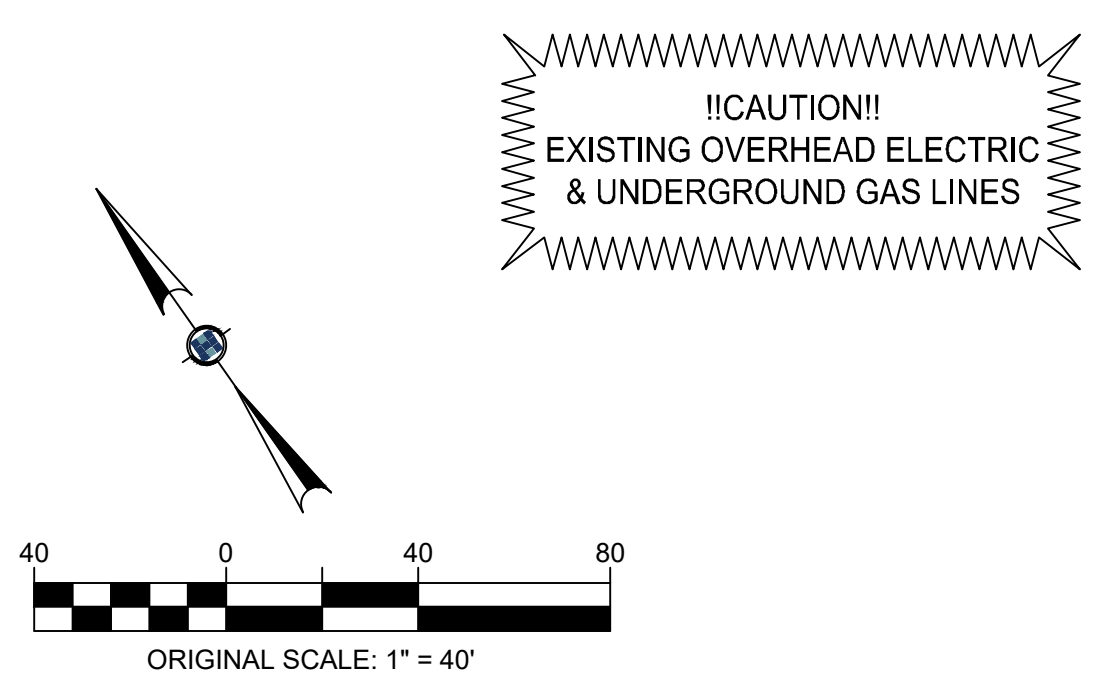
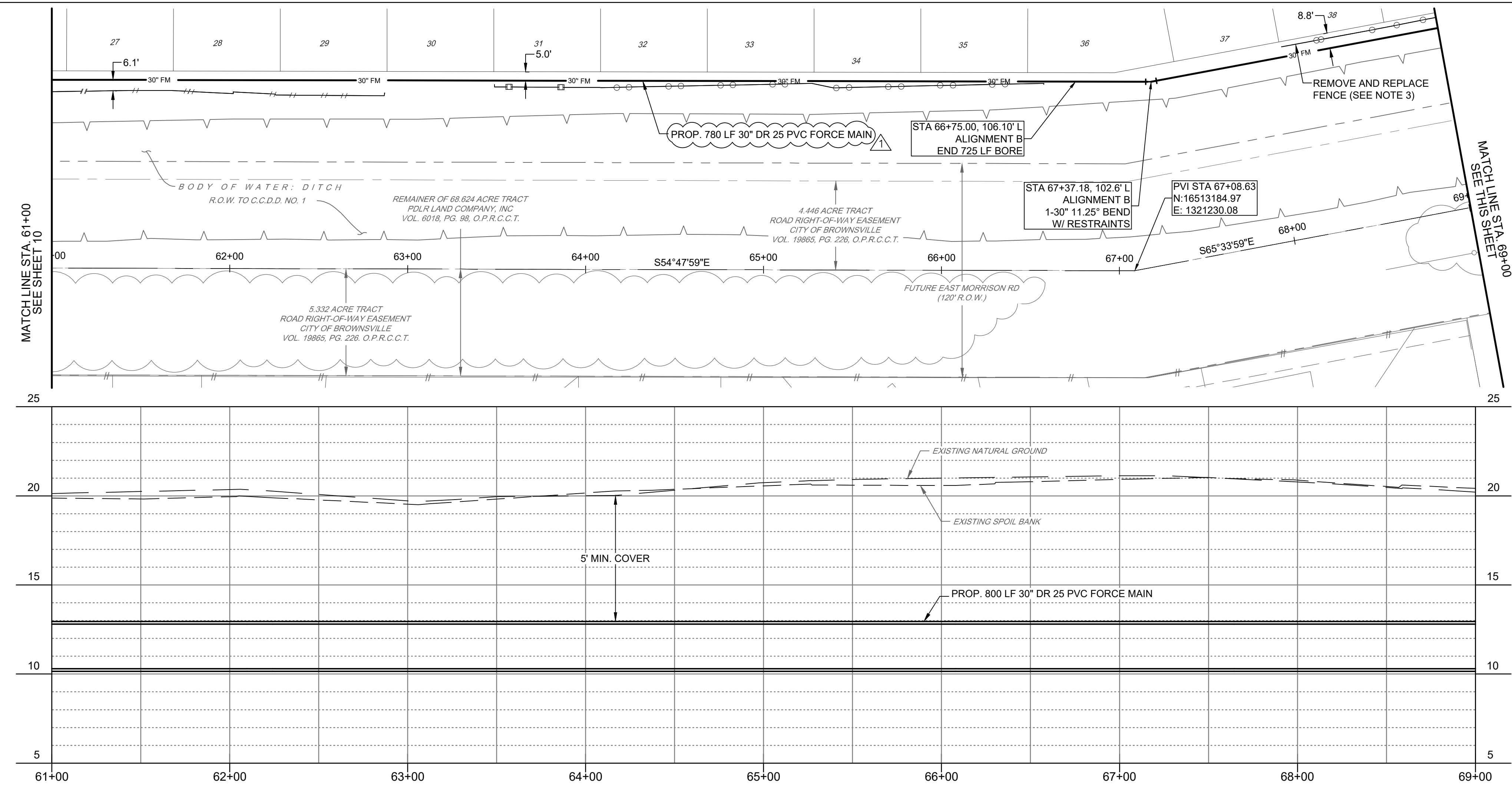
REVISION NO.	DATE	DESCRIPTION
1	02/12/2026	FORCE MAIN ALIGNMENT CHANGE



PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	PLAN & PROFILE ALIGNMENT B
STA 43+00 TO STA 61+00	

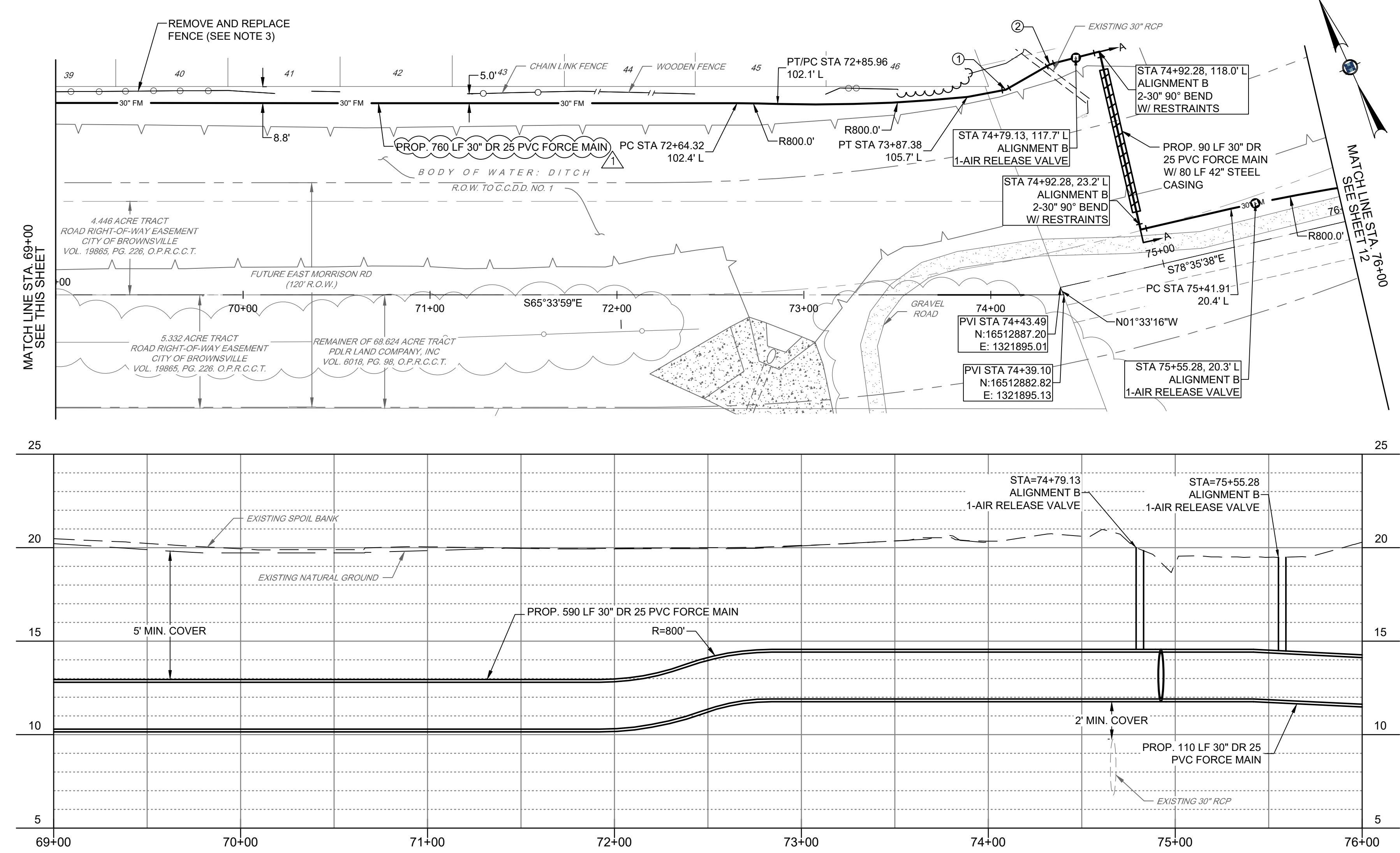


FILE NAME: A:\47000\47277\001\CADD\sheet\broPhase 1\C-P&P MORRISON & DD-47277.001.dwg DATE: February 20, 2026, TIME: 5:01 PM, USER: ah3893 AVO: 47277

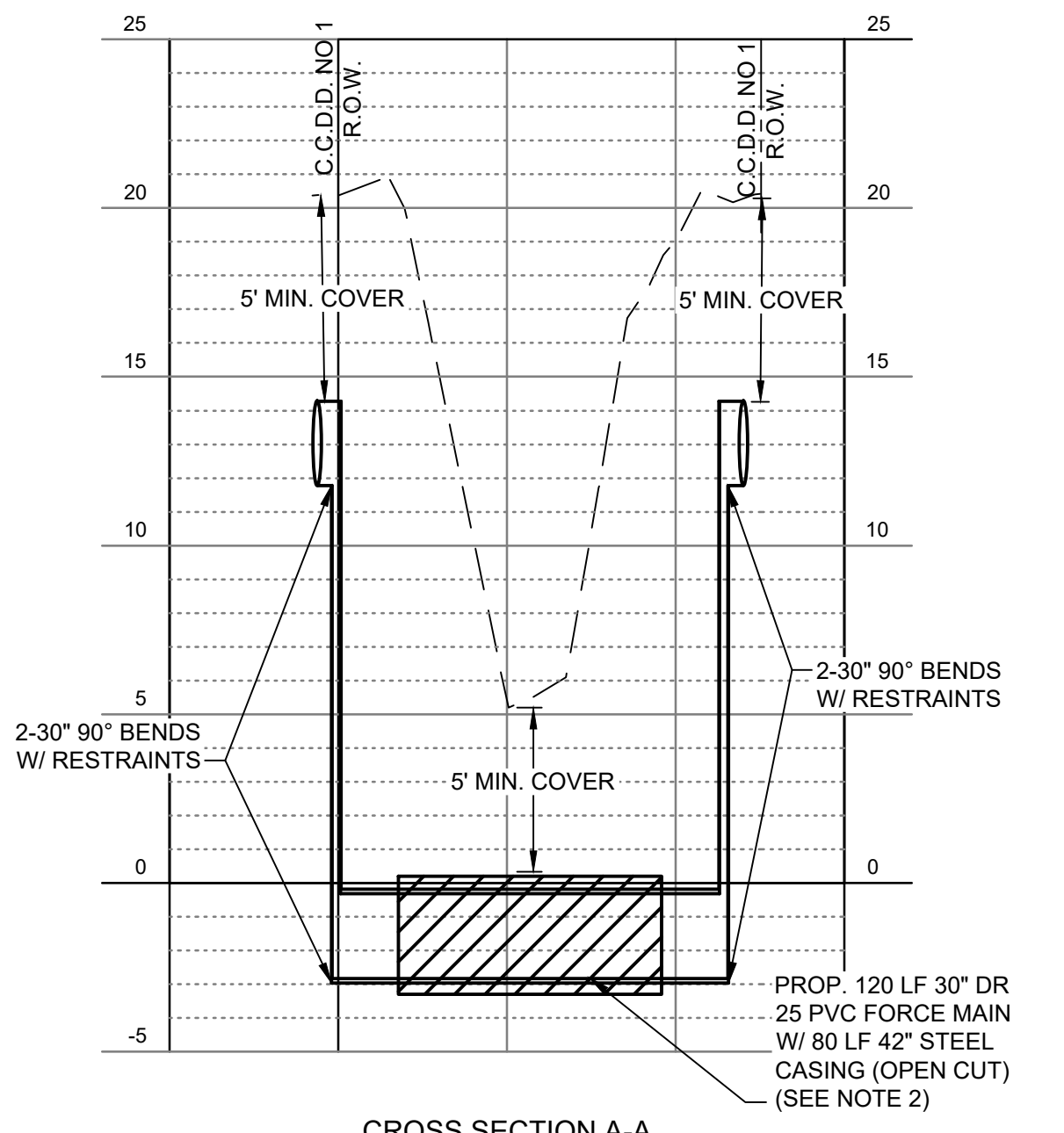


LEGEND

	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	BARBED WIRE FENCE LINE
	METAL FENCE LINE
	OVERHEAD ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING STORM SEWER LINE
	EXISTING WASTE WATER LINE
	EXISTING FORCE MAIN
	EXISTING FIBER OPTIC
	EXISTING AT&T LINE
	EXISTING BANK LINE
	EXISTING EDGE OF WATER
	EXISTING RIGHT-OF-WAY
	EXISTING SURVEY CENTERLINE
	EXISTING ROAD CENTER STRIPE
	EXISTING EASEMENT



NOTE:
 1. EXIST. RCP SHALL BE REMOVED AND REPLACED IF NEEDED. (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)
 2. CONTRACTOR SHALL RETURN THE SITE TO PRE-CONSTRUCTION CONDITIONS (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF FENCES (ON A LIKE-FOR-LIKE BASIS) THAT ENCRANCH UPON THE CAMERON COUNTY DRAINAGE DISTRICT NO. 1 NORTH RIGHT-OF-WAY, WHERE FEASIBLE. THE CONTRACTOR SHALL COORDINATE ALL FENCE REPLACEMENT ACTIVITIES WITH BPUB, DRAINAGE DISTRICT AND RESPECTIVE PROPERTY OWNER.



- ① STA 74+08.03, 109.7' L ALIGNMENT B 1-30° 22.5' BEND W/ RESTRAINTS
- ② STA 74+64.91, 117.3' L ALIGNMENT B 1-30° 11.25' BEND W/ RESTRAINTS

811
 Know what's below.
 Call before you dig.

BROWNSVILLE P.U.B.
 NORTH REGIONAL FORCE MAIN
 PHASE 1
 BROWNSVILLE, TEXAS

half
 1074 PARADES LINE RD., SUITE B
 BROWNSVILLE, TEXAS 77821-2696
 TEL: (936) 865-7100

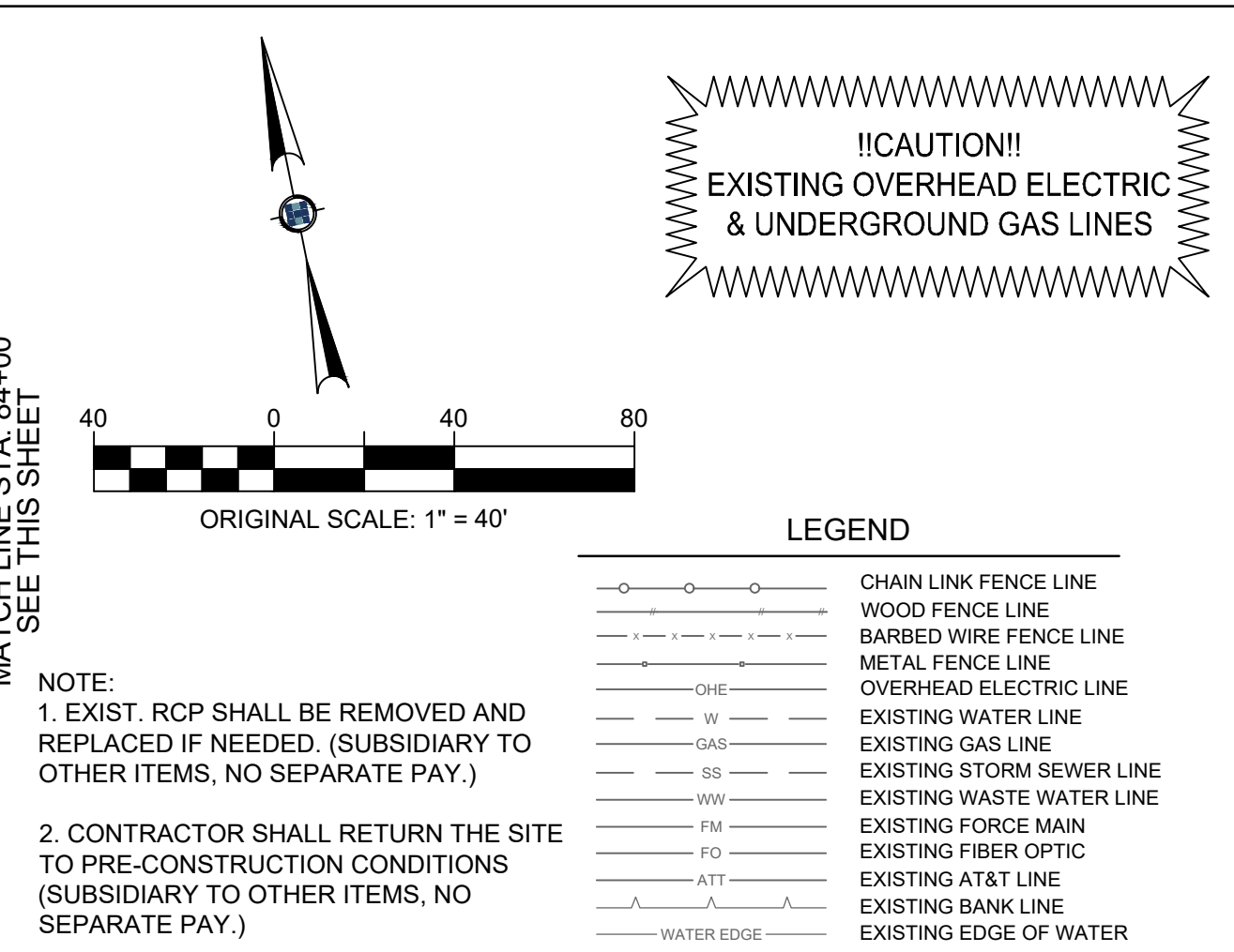
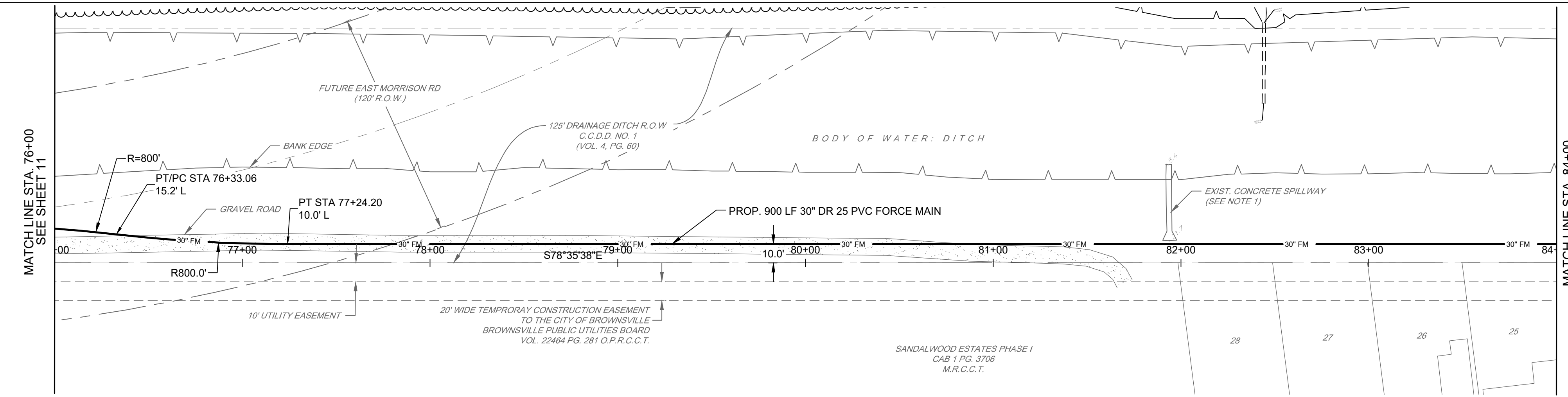
REVISION NO.	DATE	DESCRIPTION
1	2/12/2026	FORCE MAIN ALIGNMENT CHANGE

JOHN W. CLINT
 85-17
 02/12/26

PROJECT NO.: 47277.001
 ISSUED: 2/20/2026
 DRAWN BY: MH/ENH
 CHECKED BY: JWC
 SCALE: AS NOTED
 SHEET TITLE: PLAN & PROFILE ALIGNMENT B
 STA 61+00 TO STA 76+00

11

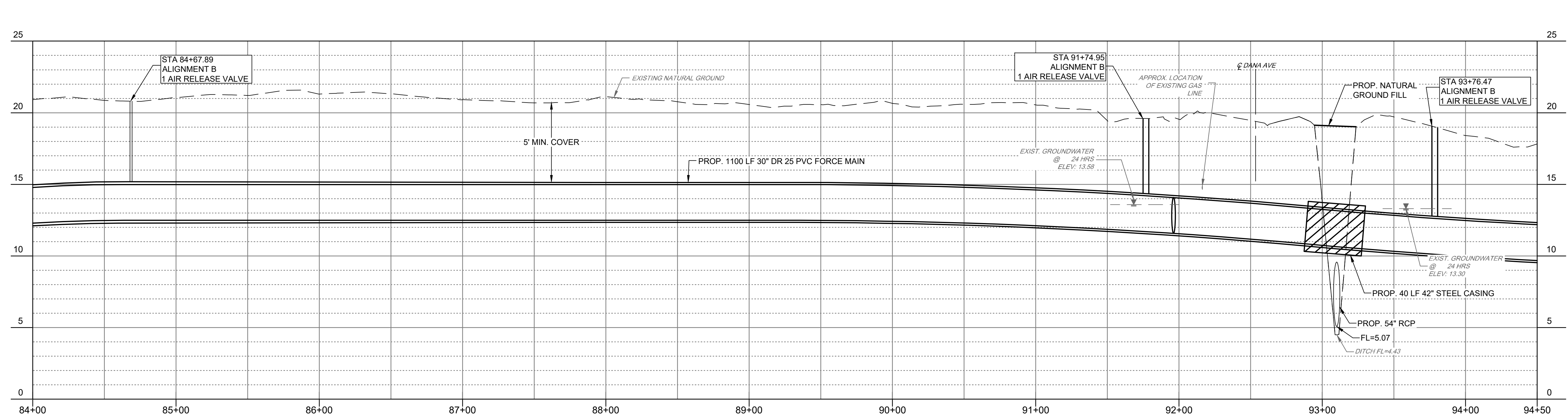
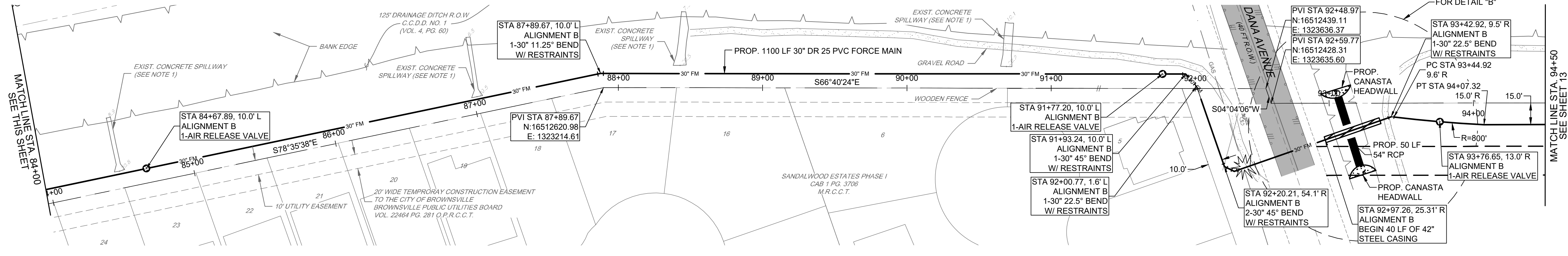
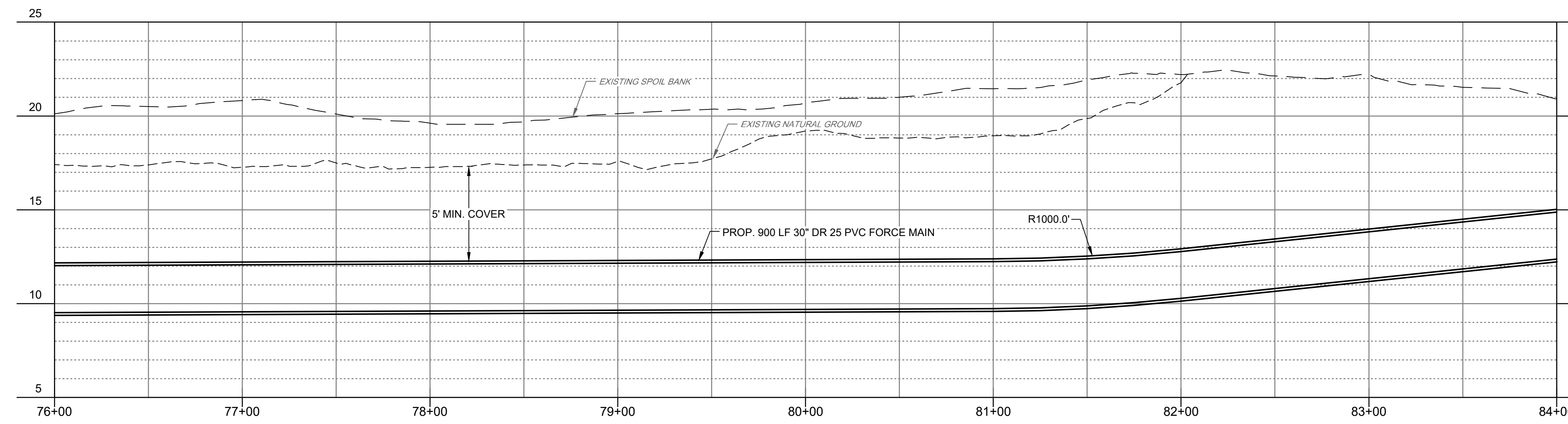
FILE NAME: A:\17000\47277\001\CADD\sheet\broPhase 1\C-P&P-MORRISON & DD-47277.dwg DATE: February 20, 2026, TIME: 5:03 PM, USER: ah3893 AVO-47277



NOTE:
 1. EXIST. RCP SHALL BE REMOVED AND REPLACED IF NEEDED. (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)
 2. CONTRACTOR SHALL RETURN THE SITE TO PRE-CONSTRUCTION CONDITIONS (SUBSIDIARY TO OTHER ITEMS, NO SEPARATE PAY.)

LEGEND

	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	BARBED WIRE FENCE LINE
	METAL FENCE LINE
	OVERHEAD ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING STORM SEWER LINE
	EXISTING WASTE WATER LINE
	EXISTING FORCE MAIN
	EXISTING FIBER OPTIC
	EXISTING AT&T LINE
	EXISTING BANK LINE
	EXISTING EDGE OF WATER
	EXISTING RIGHT-OF-WAY
	EXISTING SURVEY CENTERLINE
	EXISTING ROAD CENTER STRIPE
	EXISTING EASEMENT

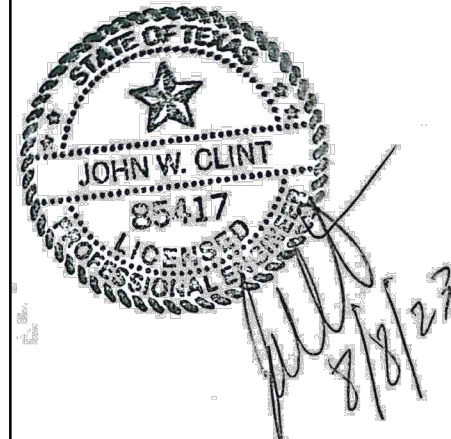


BROWNSVILLE P.U.B.
 NORTH REGIONAL FORCE MAIN
 PHASE 1
 BROWNSVILLE, TEXAS



half
 1074 PARADES LINE RD., SUITE B
 BROWNSVILLE, TEXAS 77821-2696
 TEL: (936) 865-7100

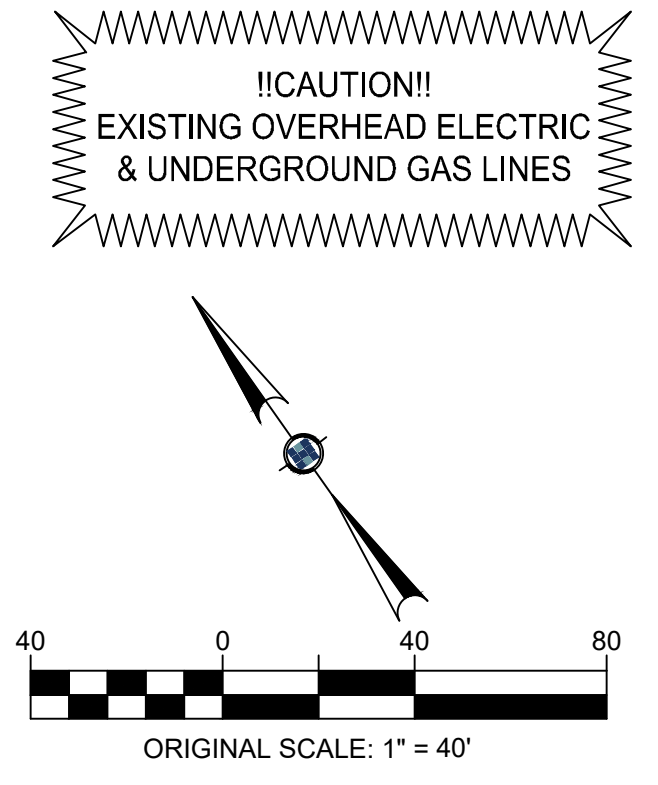
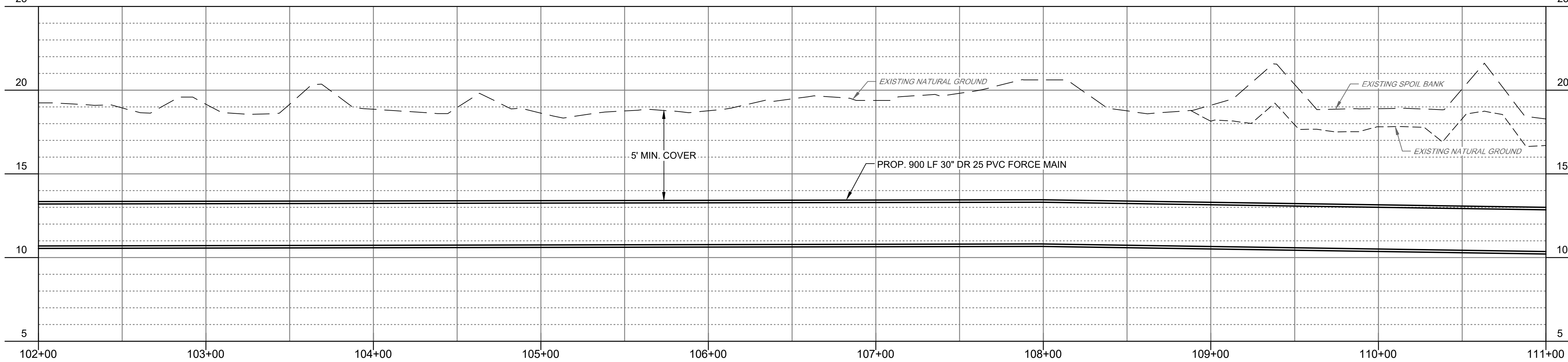
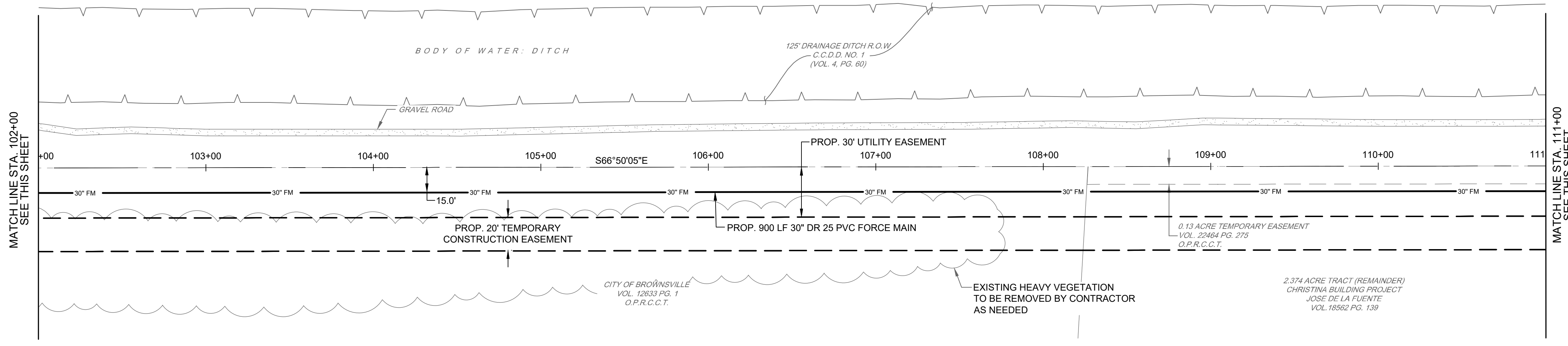
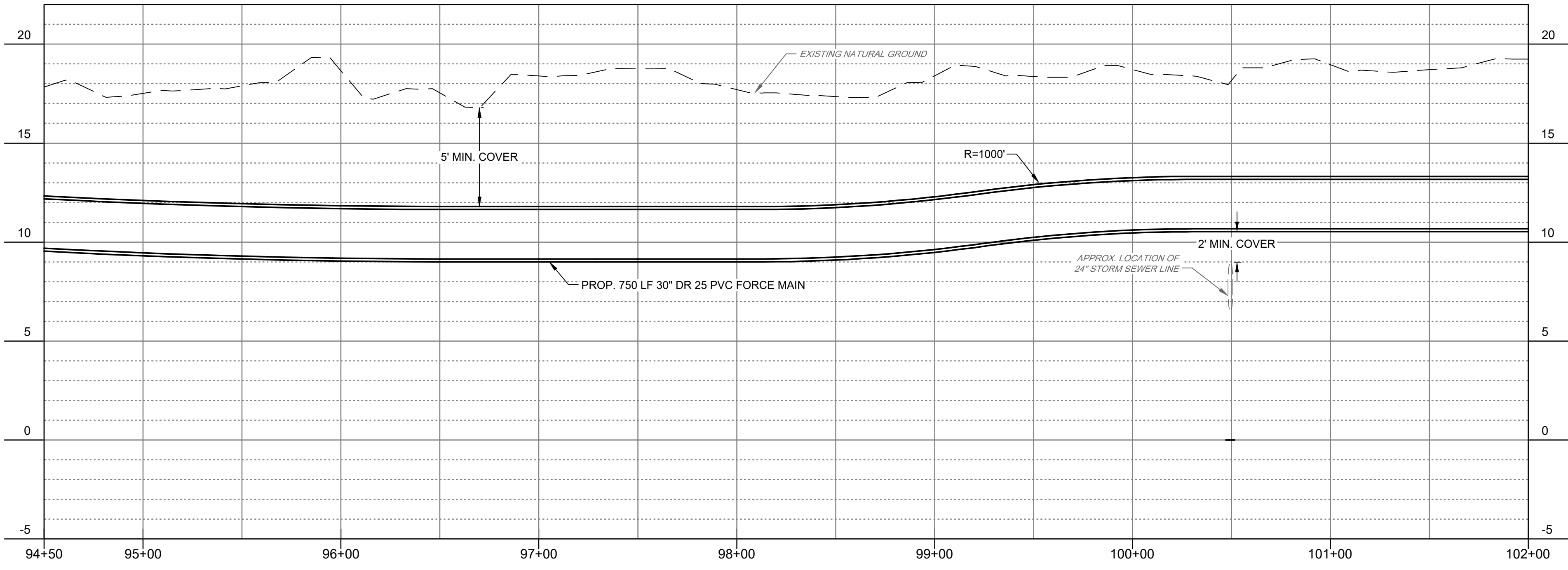
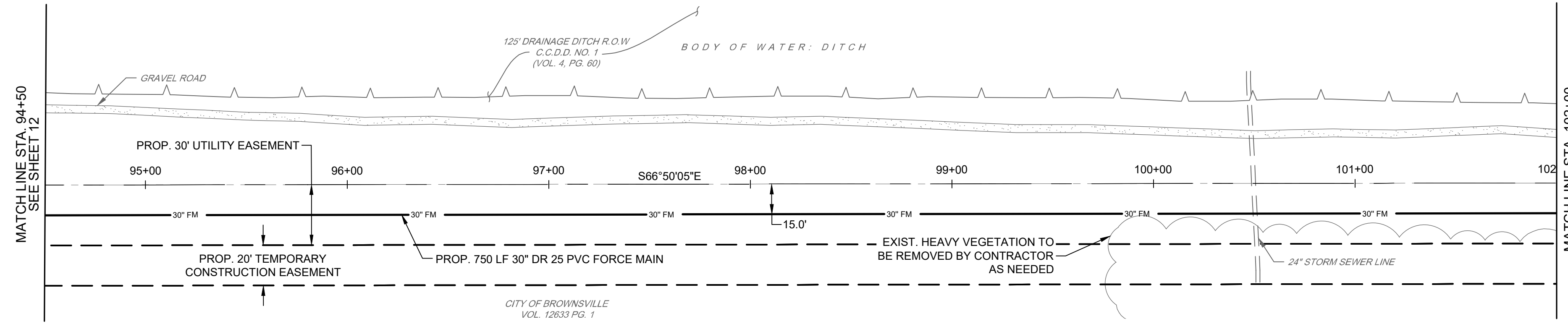
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	PLAN & PROFILE ALIGNMENT B
STA 76+00 TO STA 94+50	



FILE NAME: A:\47000\47277\001\CADD\sheet\sheet\Phase 1\C-P&P MORRISON & DD-47277.001.dwg DATE: February 20, 2026, TIME: 5:04 PM, USER: ah3893 AVO: 47277



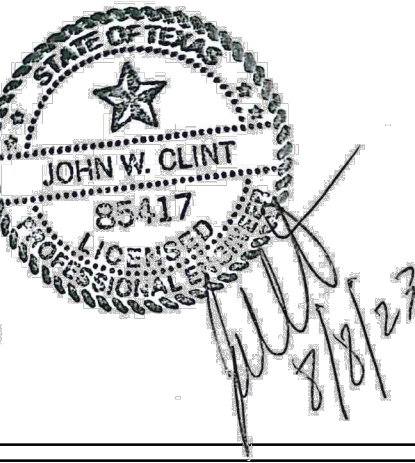
LEGEND

	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	BARBED WIRE FENCE LINE
	METAL FENCE LINE
	OVERHEAD ELECTRIC LINE
	OVERHEAD WATER LINE
	EXISTING GAS LINE
	EXISTING STORM SEWER LINE
	EXISTING WASTE WATER LINE
	EXISTING FORCE MAIN
	EXISTING FIBER OPTIC
	EXISTING AT&T LINE
	EXISTING BANK LINE
	EXISTING WATER EDGE
	EXISTING RIGHT-OF-WAY
	EXISTING SURVEY CENTERLINE
	EXISTING ROAD CENTER STRIPE
	EXISTING EASEMENT

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNSVILLE, TEXAS



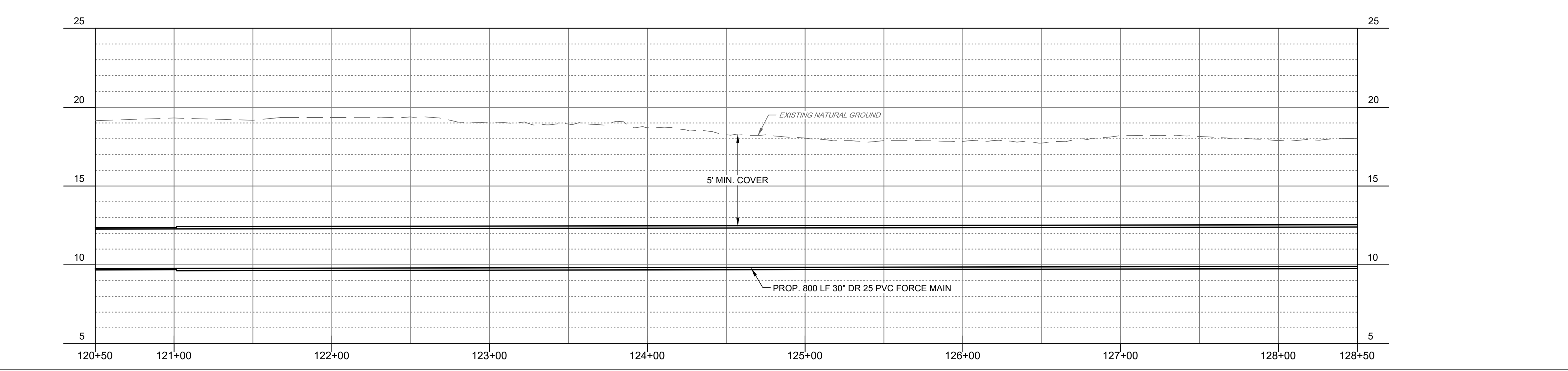
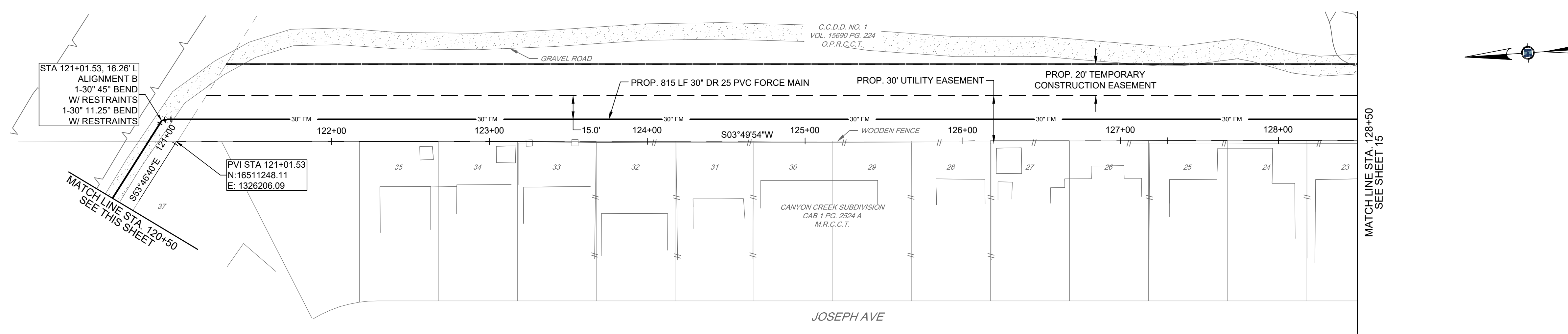
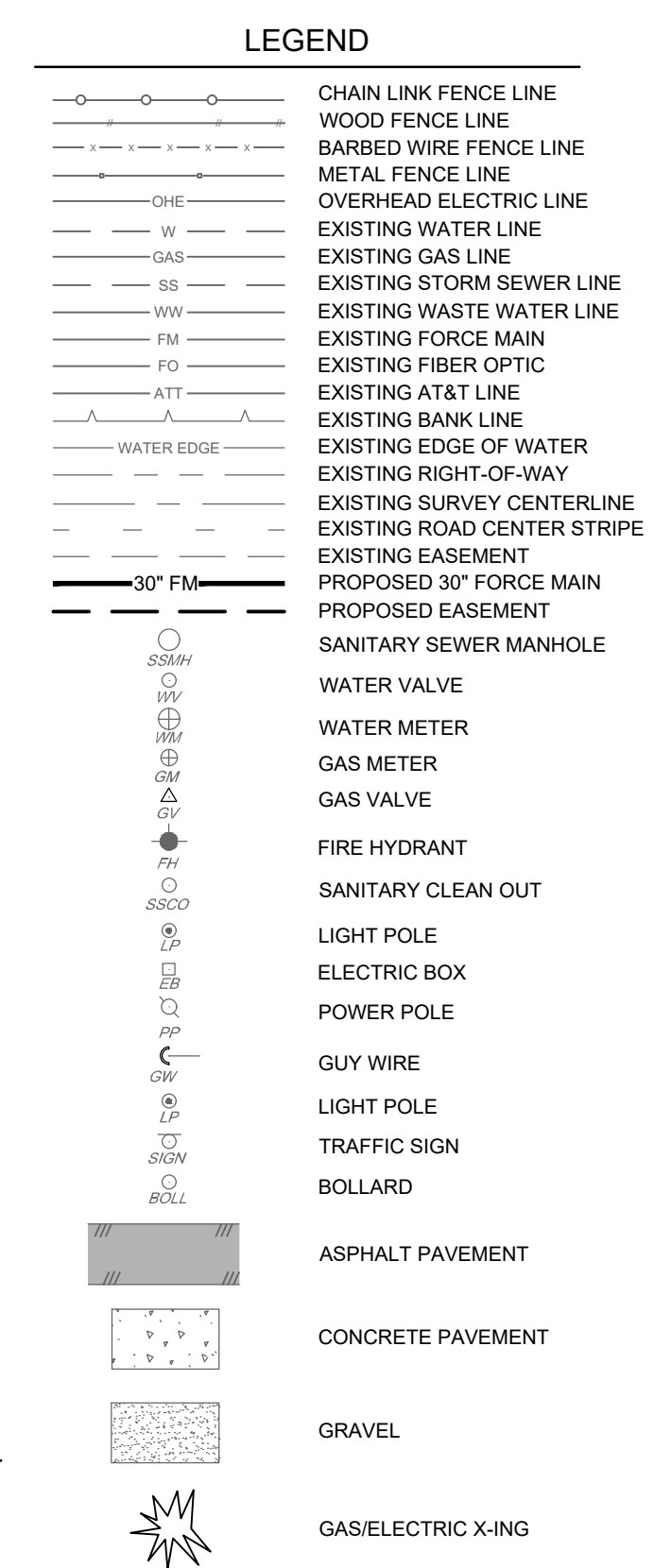
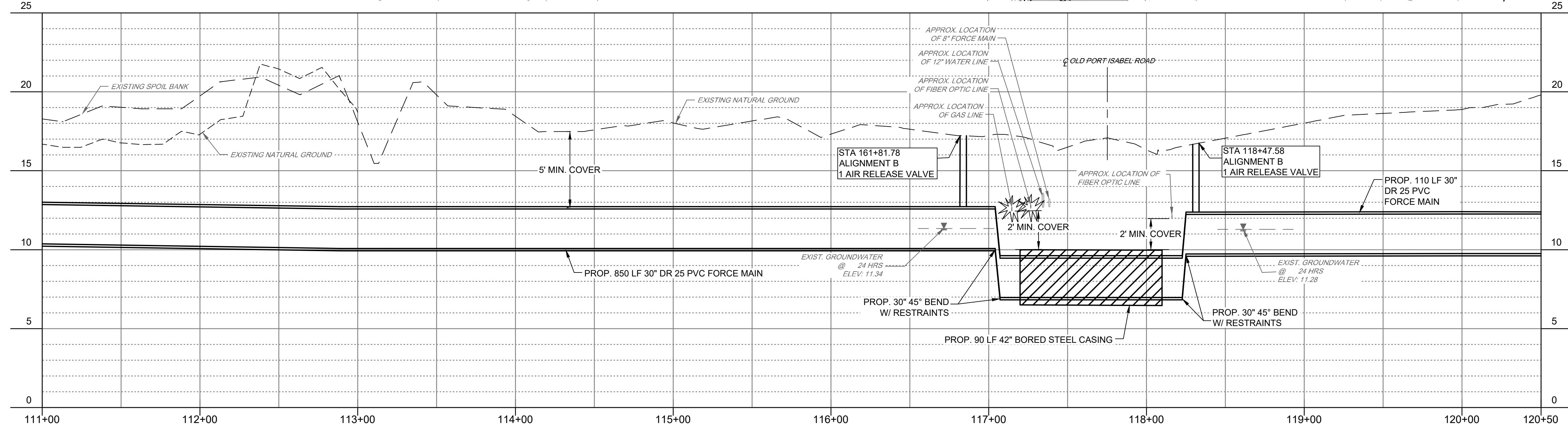
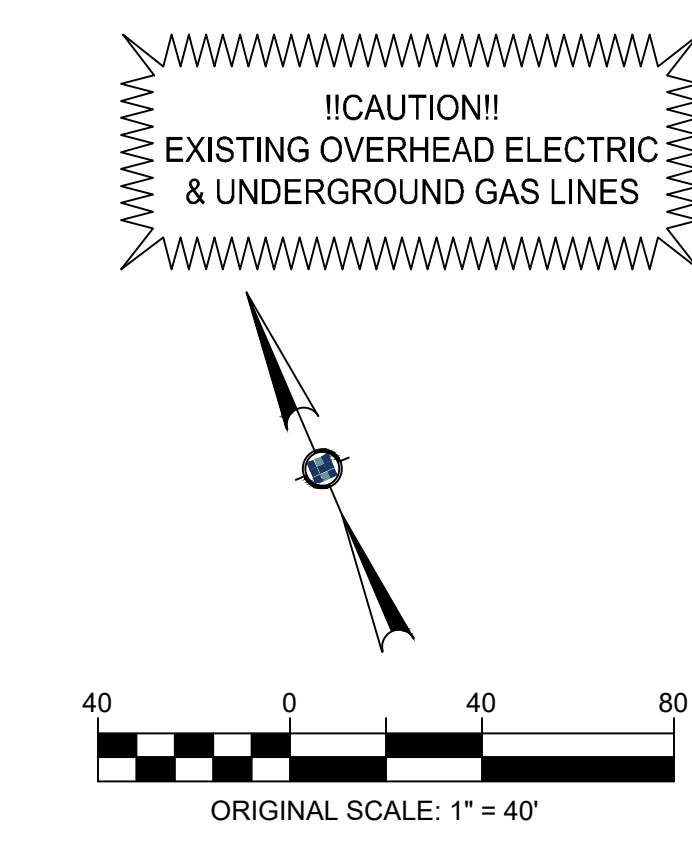
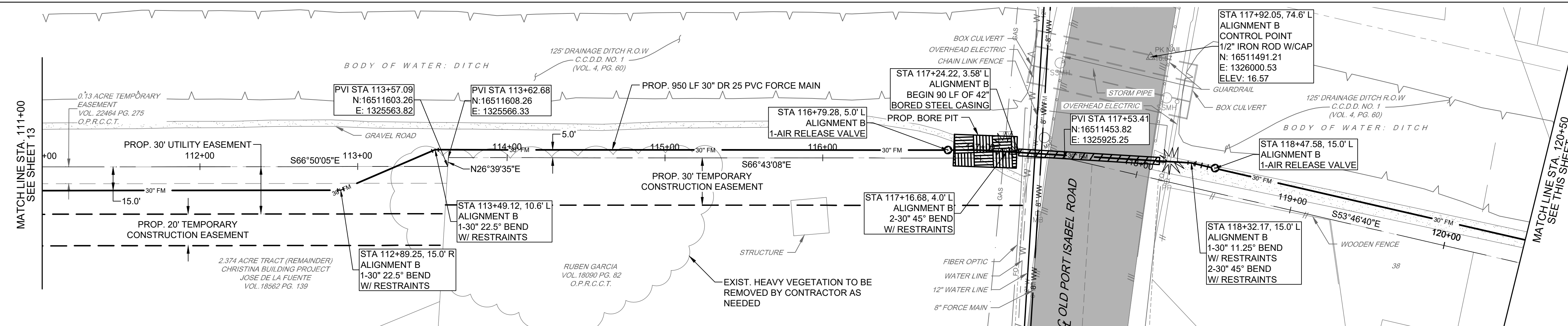
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	PLAN & PROFILE
	ALIGNMENT B
	STA 94+50 TO STA 111+00



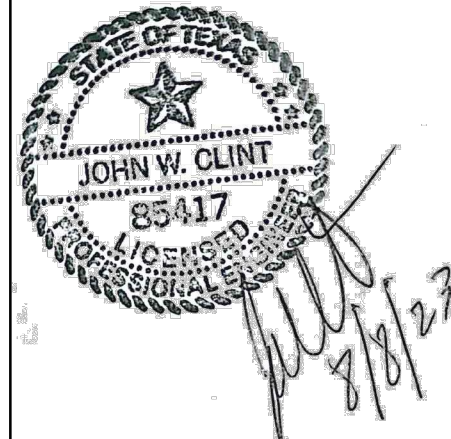
FILE NAME: A:\47000\47277\001\CADD\sheetbroPhase 1\C-P&P MORRISON & DD-47277.001.dwg DATE: February 20, 2026, TIME: 5:06 PM, USER: ah3893 AVO-47277



BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNSVILLE, TEXAS



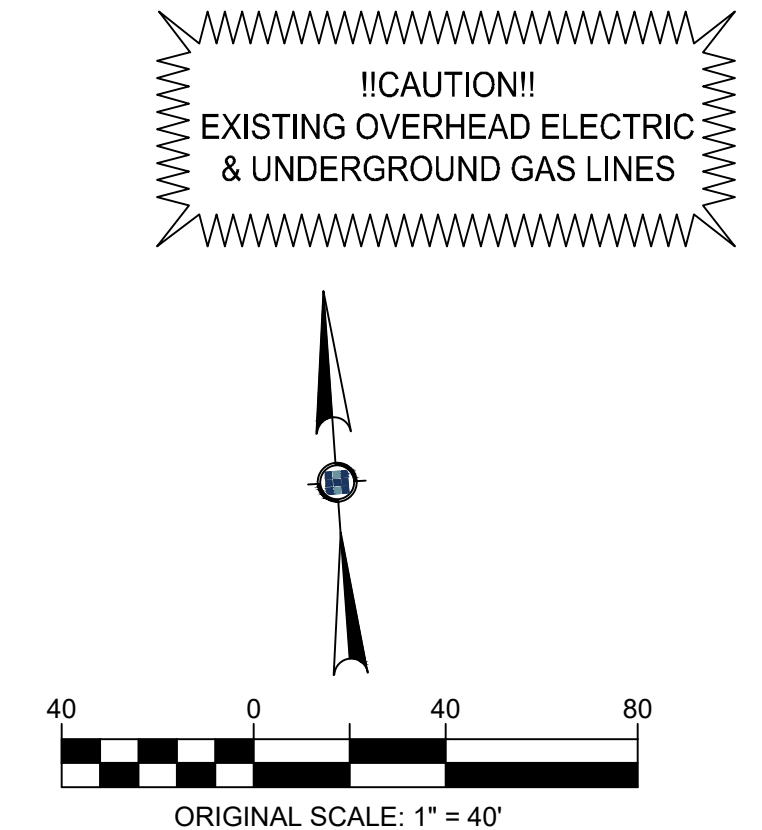
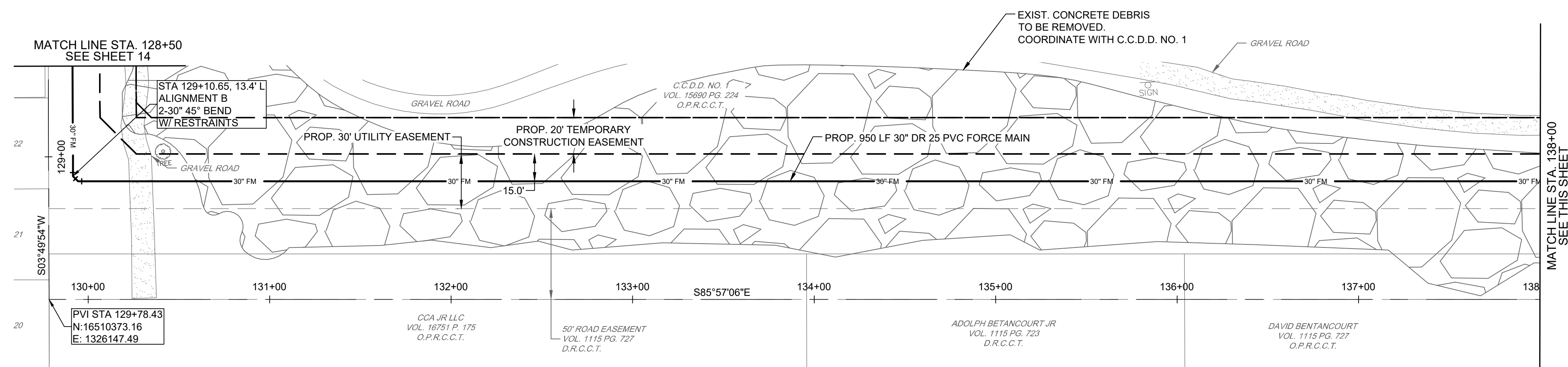
REVISION NO.	DATE	DESCRIPTION



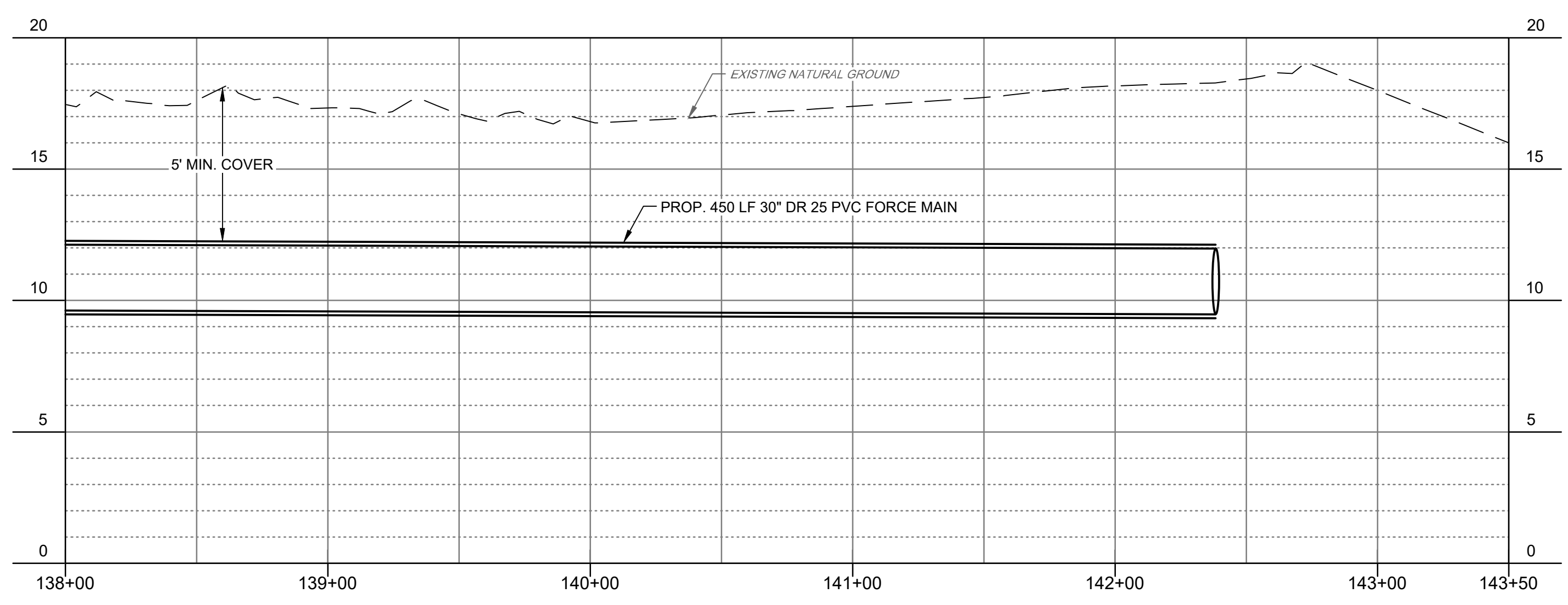
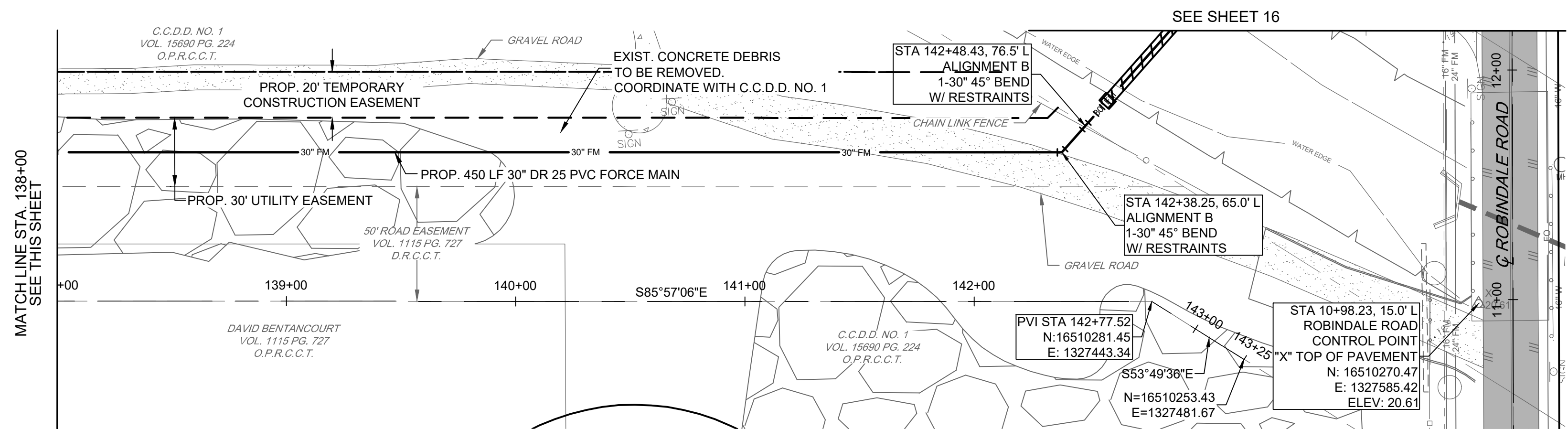
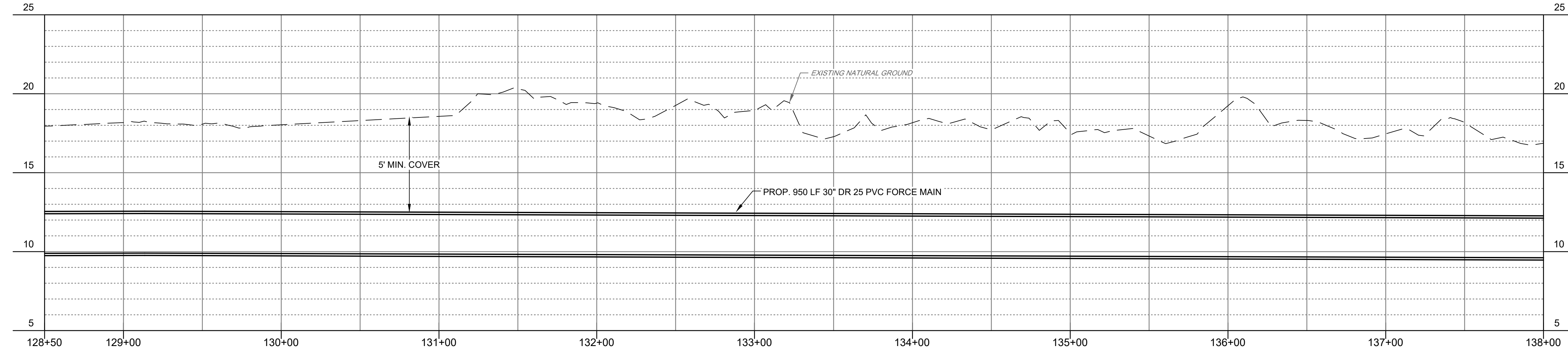
PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	PLAN & PROFILE ALIGNMENT B
STA 111+00 TO STA 128+50	14



FILE NAME: A:\17006\47277\001\CADD\sheet\broPhase 1C-P&P-MORRISON & DD-47277.001.dwg DATE: February 20, 2026, TIME: 5:09 PM, USER: ah3893 AVO-47277



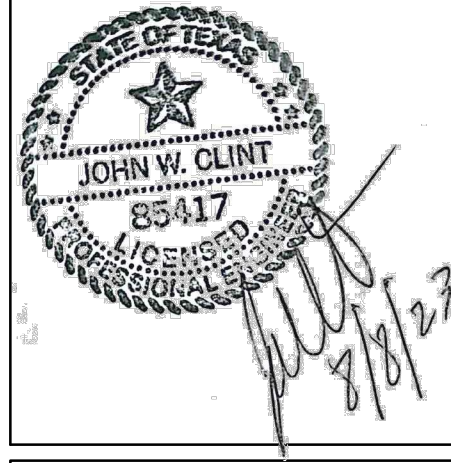
- LEGEND**
- CHAIN LINK FENCE LINE
 - WOOD FENCE LINE
 - BARBED WIRE FENCE LINE
 - METAL FENCE LINE
 - OVERHEAD ELECTRIC LINE
 - EXISTING WATER LINE
 - EXISTING GAS LINE
 - EXISTING STORM SEWER LINE
 - EXISTING WASTE WATER LINE
 - EXISTING FORCE MAIN
 - EXISTING FIBER OPTIC
 - EXISTING AT&T LINE
 - EXISTING BANK LINE
 - EXISTING EDGE OF WATER
 - EXISTING RIGHT-OF-WAY
 - EXISTING SURVEY CENTERLINE
 - EXISTING ROAD CENTER STRIPE
 - EXISTING EASEMENT
 - PROPOSED 30' FORCE MAIN
 - PROPOSED EASEMENT
 - SANITARY SEWER MANHOLE
 - WATER VALVE
 - WATER METER
 - GAS METER
 - GAS VALVE
 - FIRE HYDRANT
 - SANITARY CLEAN OUT
 - LIGHT POLE
 - ELECTRIC BOX
 - POWER POLE
 - GUY WIRE
 - LIGHT POLE
 - TRAFFIC SIGN
 - BOLLARD
 - ASPHALT PAVEMENT
 - CONCRETE PAVEMENT
 - GRAVEL
 - GAS/ELECTRIC X-ING



BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
 BROWNSVILLE, TEXAS



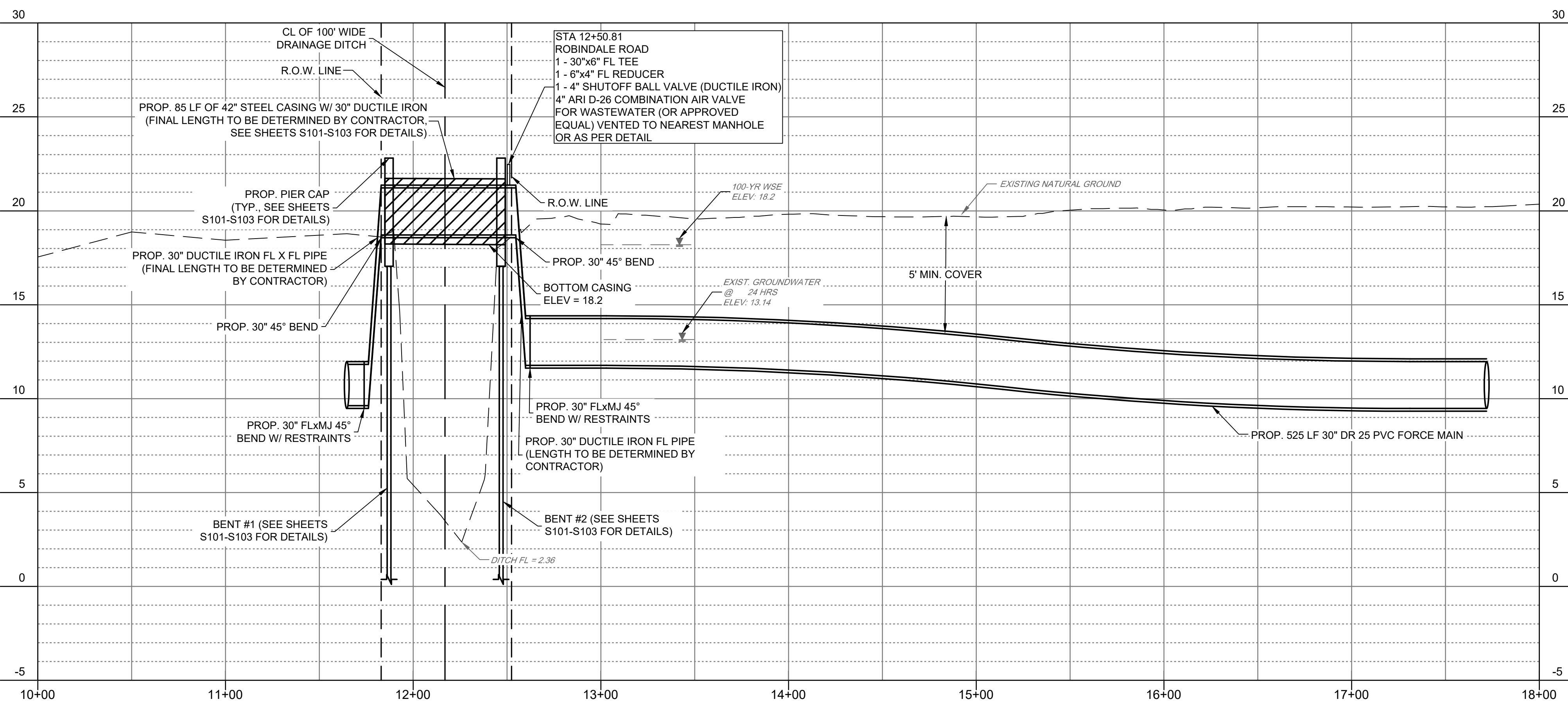
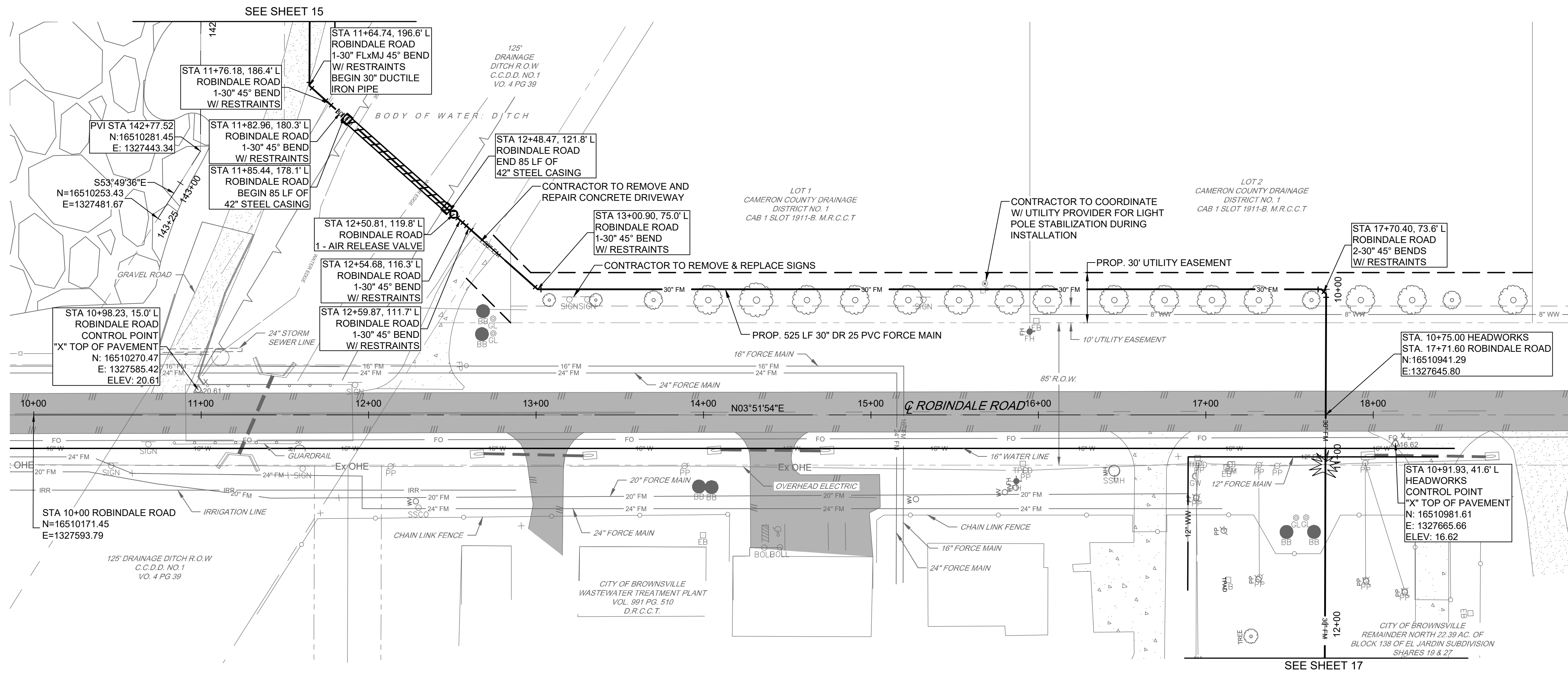
REVISION NO.	DATE	DESCRIPTION



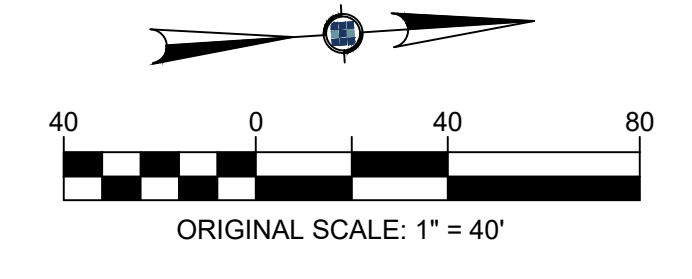
PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	PLAN & PROFILE
	ALIGNMENT B
	STA 128+50 TO STA 144+00



FILE NAME: A:\47000\47277\001\CADD\sheet\broPhase 1\C-P&P MORRISON & DD-47277.001.dwg DATE: February 20, 2026, TIME: 5:09 PM, USER: ah3893 AVO-47277



!!!CAUTION!!!
EXISTING OVERHEAD ELECTRIC
& UNDERGROUND GAS LINES



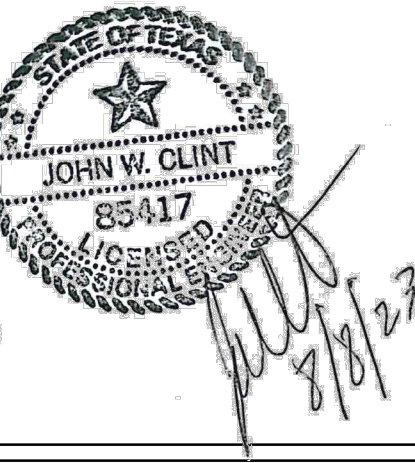
- LEGEND**
- CHAIN LINK FENCE LINE
 - WOOD FENCE LINE
 - BARBED WIRE FENCE LINE
 - METAL FENCE LINE
 - OVERHEAD ELECTRIC LINE
 - EXISTING WATER LINE
 - EXISTING GAS LINE
 - EXISTING STORM SEWER LINE
 - EXISTING WASTE WATER LINE
 - EXISTING FORCE MAIN
 - EXISTING FIBER OPTIC
 - EXISTING AT&T LINE
 - EXISTING BANK LINE
 - EXISTING EDGE OF WATER
 - EXISTING RIGHT-OF-WAY
 - EXISTING SURVEY CENTERLINE
 - EXISTING ROAD CENTER STRIPE
 - EXISTING EASEMENT
 - PROPOSED 30" FORCE MAIN
 - PROPOSED EASEMENT
 - SANITARY SEWER MANHOLE
 - WATER VALVE
 - WATER METER
 - GAS METER
 - GAS VALVE
 - FIRE HYDRANT
 - SANITARY CLEAN OUT
 - LIGHT POLE
 - ELECTRIC BOX
 - POWER POLE
 - GUY WIRE
 - LIGHT POLE
 - TRAFFIC SIGN
 - BOLLARD
 - ASPHALT PAVEMENT
 - CONCRETE PAVEMENT
 - GRAVEL
 - GASELECTRIC X-ING

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
BROWNSVILLE, TEXAS



half
1074 PARADES LINE RD., SUITE B
BROWNSVILLE, TEXAS 77821-2696
TEL: (959) 363-7100

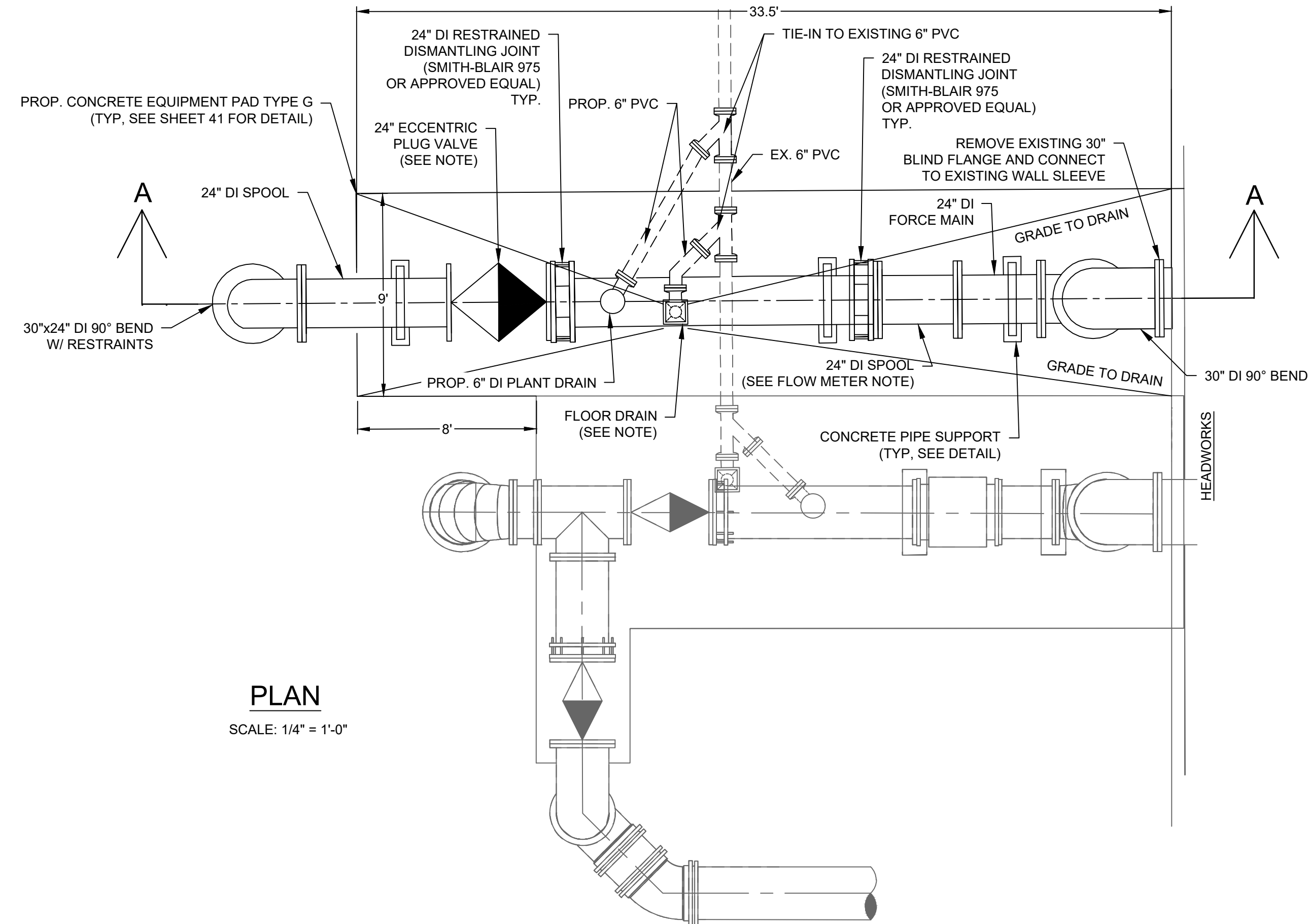
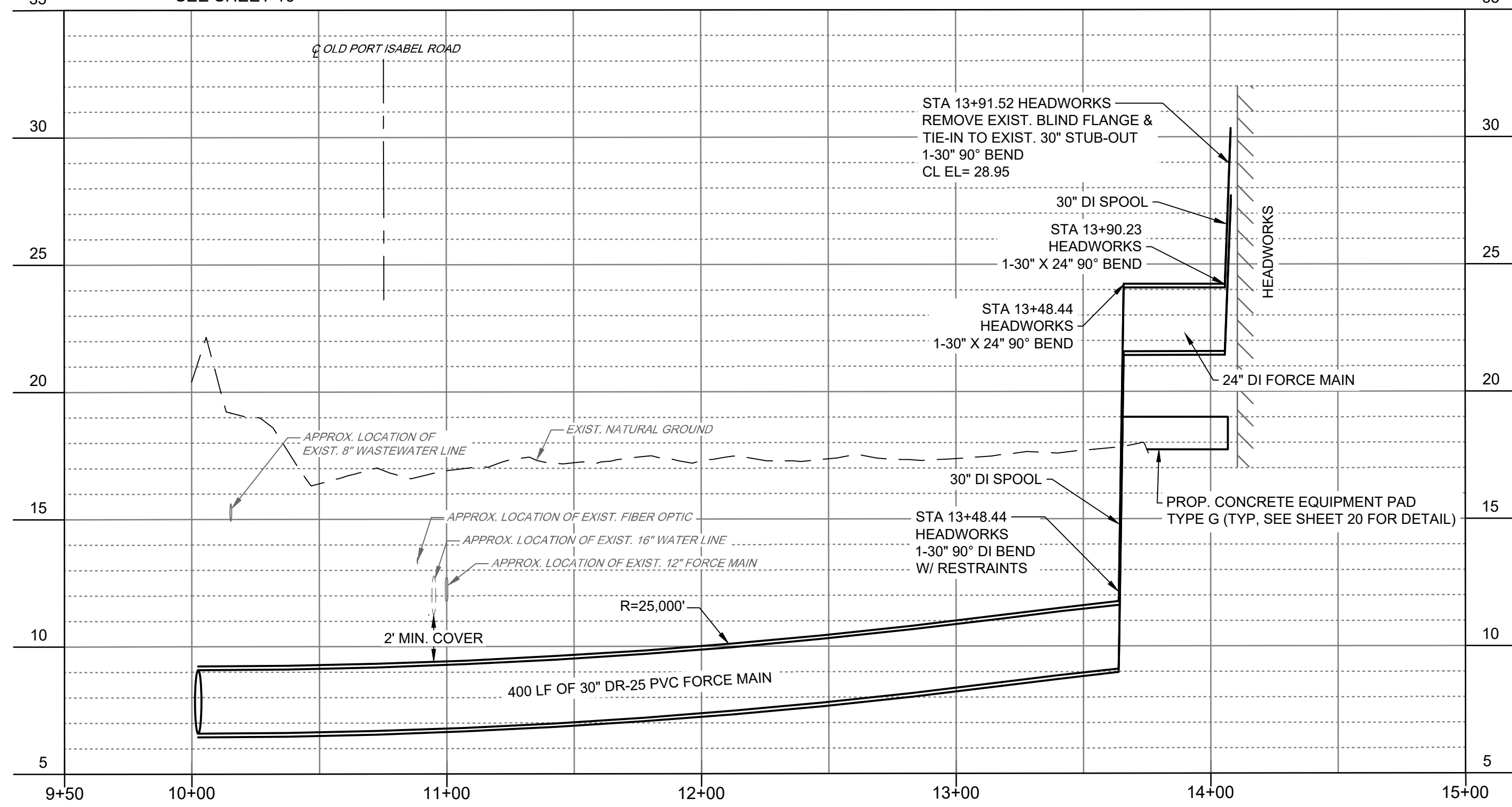
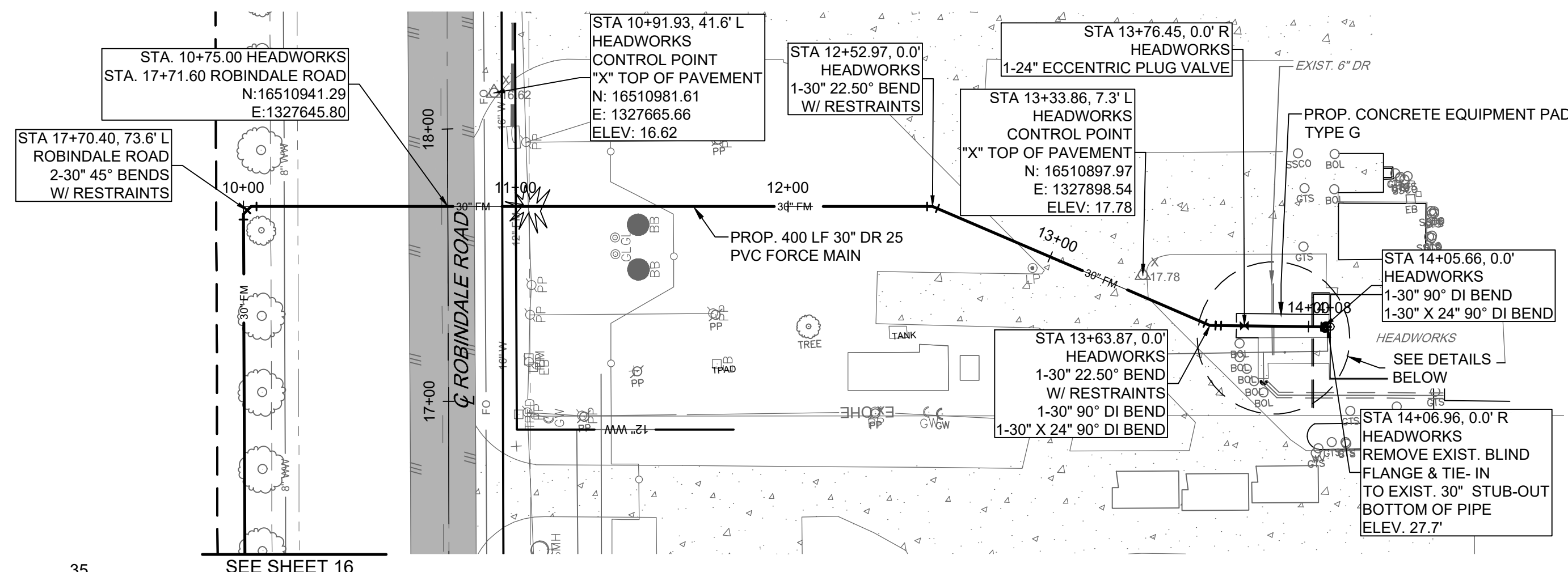
REVISION NO.	DATE	DESCRIPTION



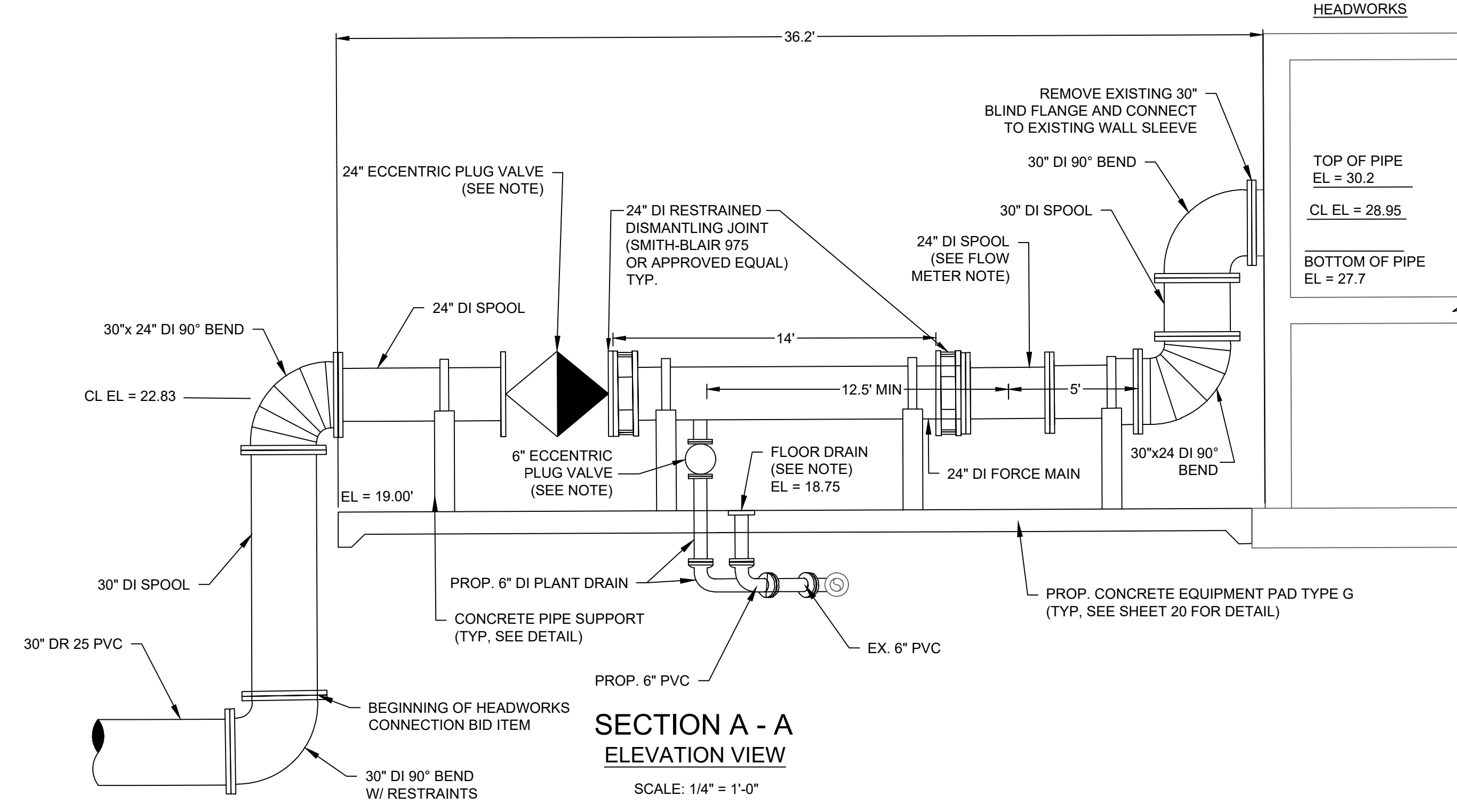
PROJECT NO.: 47277.001
ISSUED: 2/20/2026
DRAWN BY: MH/ENH
CHECKED BY: JWC
SCALE: AS NOTED
SHEET TITLE:
PLAN & PROFILE
ROBINDALE ROAD
STA 10+00 TO STA 18+50



Know what's below.
Call before you dig.



PLAN
SCALE: 1/4" = 1'-0"



SECTION A - A
ELEVATION VIEW
SCALE: 1/4" = 1'-0"

HEADWORKS PIPING AND INSTRUMENTATION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL MATERIAL DIMENSIONS AND FIELD MEASUREMENTS PRIOR TO ORDERING PIPING, FITTINGS, VALVES, METERS, ADAPTERS OR OTHER NECESSARY ITEMS.
2. THE CONTRACTOR SHALL CONNECT METER POWER AND SIGNAL CABLES TO THE... ALL CABLES SHALL USE THE EXISTING POWER AND SIGNAL CONDUITS OR INSTALLED TWO NEW 3/4" INCH (OR AS REQUIRED BY THE MANUFACTURER) SCHEDULE 80 PVC CONDUITS. CONDUIT COUPLING SHALL BE PVC SOLVENT-WELD TYPE. DEPTH OF POWER AND SIGNAL CONDUITS SHALL BE BETWEEN 24" MINIMUM AND 36" MAXIMUM, UNLESS OTHERWISE INDICATED. ACCEPTANCE OF THE FLOW METER SIGNAL WORK PERFORMED BY THE CONTRACTOR SHALL BE BASED ON THE POSITIVE RECEIPT OF REQUIRED SIGNALS AT BPUB'S RECEIVING LOCATION. WIRELESS SIGNAL OPTIONS WILL BE ACCEPTED BY THE OWNER. SOLAR OR BATTERY POWER OPTIONS WILL NOT BE ACCEPTED BY THE OWNER.

FLOW METER NOTES:

1. A 24" DI SPOOL SHALL BE INSTALLED TO ALLOW FOR REMOVAL AND FUTURE INSTALLATION OF ENDRESS HAUSER PROLINE PROMAG W400 OR MCCROMETER ULTRAMAG ELECTROMAGNETIC FLOWMETER.
2. THE LENGTH OF 24" DI SPOOL SHALL BE EQUAL TO THE LENGTH OF 24" FLOW METER FOR FUTURE INSTALLATION (30.70 FEET, AWWA STANDARD)

ECCENTRIC PLUG VALVE NOTES:

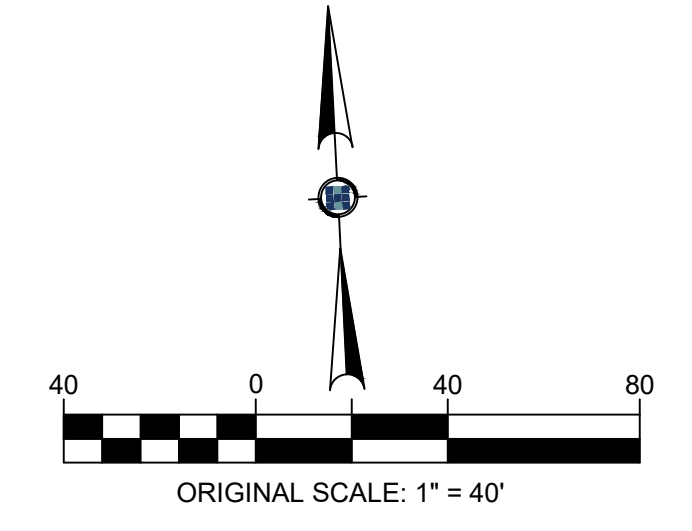
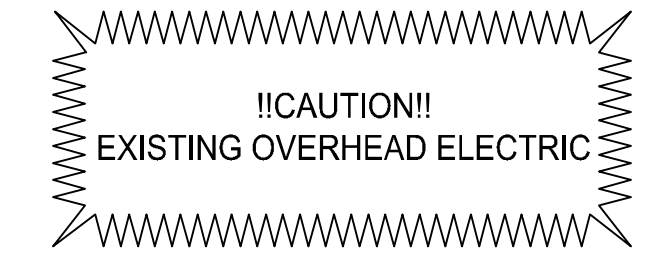
1. USE MILLIKEN SERIES 600 (MILLCENTRIC) OR VALMATIC (CAM-CENTRIC) FLANGED ECCENTRIC PLUG VALVE.
2. 6-INCH ECCENTRIC PLUG VALVES SHALL BE OPERATED WITH 2-INCH SQUARE NUT FOR DIRECT QUARTER TURN OPERATION WITH A HAND LEVER.
3. 24 AND 30-INCH ECCENTRIC PLUG VALVE SHALL INCLUDE AN ENCLOSED, GEARED, MANUAL OPERATOR WITH HAND WHEEL. SIZE OPERATOR 1.5 TIMES THE MAXIMUM OPERATING SHUTOFF PRESSURE DIFFERENTIAL FOR DIRECT AND REVERSE PRESSURE.

FLOOR DRAIN NOTES:

1. USE JAY R. SMITH MFG. PROMENADE DECK DRAIN MODEL 14704-R-C-PB-U (CAST IRON BODY WITH POLISHED BRASS STRAINER) OR APPROVED EQUAL.
2. ALL EXPOSED PIPING SHALL BE DUCTILE IRON PIPE AND FITTINGS UP TO AND INCLUDING THE BEND LOCATED BELOW THE SLAB. ALL OTHER UNDERGROUND PIPING SHALL BE PVC MATCHING RECEIVING PIPE MATERIAL.

EXPOSED PIPE AND VALVE COATING SYSTEM NOTES:

1. ALL DUCTILE IRON PIPE AND VALVES SHALL BE COATED WITH A HIGH BUILD EPOXY (POLYAMIDODIAMINE EPOXY), MINIMUM 69% VOLUME SOLIDS, CAPABILITY OF 4 TO 8 MINIMUM DRY FILM THICKNESS PER COAT (MILS) MATCHING THE COLOR OF ADJACENT HEADWORKS INFLUENT PIPE SYSTEM.
2. ALL SURFACES SHALL BE PREPARED AND PAINTED IN ACCORDANCE WITH RECOMMENDATIONS OF THE COATING'S MANUFACTURER'S INSTRUCTIONS, SSPC PA 3 (GUIDE TO SAFETY IN PAINT APPLICATION), AND FEDERAL AND STATE AGENCIES GUIDELINES. FOLLOW RECOMMENDATIONS OF PIPE AND COATING MANUFACTURER'S FOR MEANS AND METHODS TO ACHIEVE SSPC-EQUIVALENT SURFACE. PROTECT WORKING PARTS OF MECHANICAL AND ELECTRICAL EQUIPMENT FROM DAMAGE DURING SURFACE PREPARATION AND PAINTING.
3. MANUFACTURER'S PRIMER COAT SHALL BE APPLIED IN A SINGLE COATED OF 2.5 MILS MINIMUM DRY FILM THICKNESS FOLLOWED BY A HIGH BUILD EPOXY COAT OF 4 MILS MINIMUM DRY FILM THICKNESS, OR AS PER MANUFACTURER'S RECOMMENDATION FOR EXPOSED METAL PIPE IN A HIGHLY CORROSIVE ENVIRONMENTAL.
4. PROVIDE MASKING OF PROTECTED HARDWARE, SWITCH PLATES, SHAFTS, BEARINGS, NAMEPLATES ON MACHINERY, AND OTHER SURFACES NOT SPECIFIED ELSEWHERE TO BE COATED.



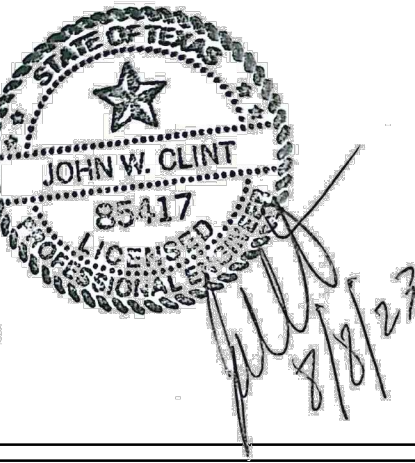
LEGEND

	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	BARBED WIRE FENCE LINE
	METAL FENCE LINE
	OVERHEAD ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING STORM SEWER LINE
	EXISTING WASTE WATER LINE
	EXISTING FORCE MAIN
	EXISTING FIBER OPTIC
	EXISTING AT&T LINE
	EXISTING BANK LINE
	EXISTING EDGE OF WATER
	EXISTING RIGHT-OF-WAY
	EXISTING SURVEY CENTERLINE
	EXISTING ROAD CENTER STRIPE
	EXISTING EASEMENT

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
BROWNSVILLE, TEXAS



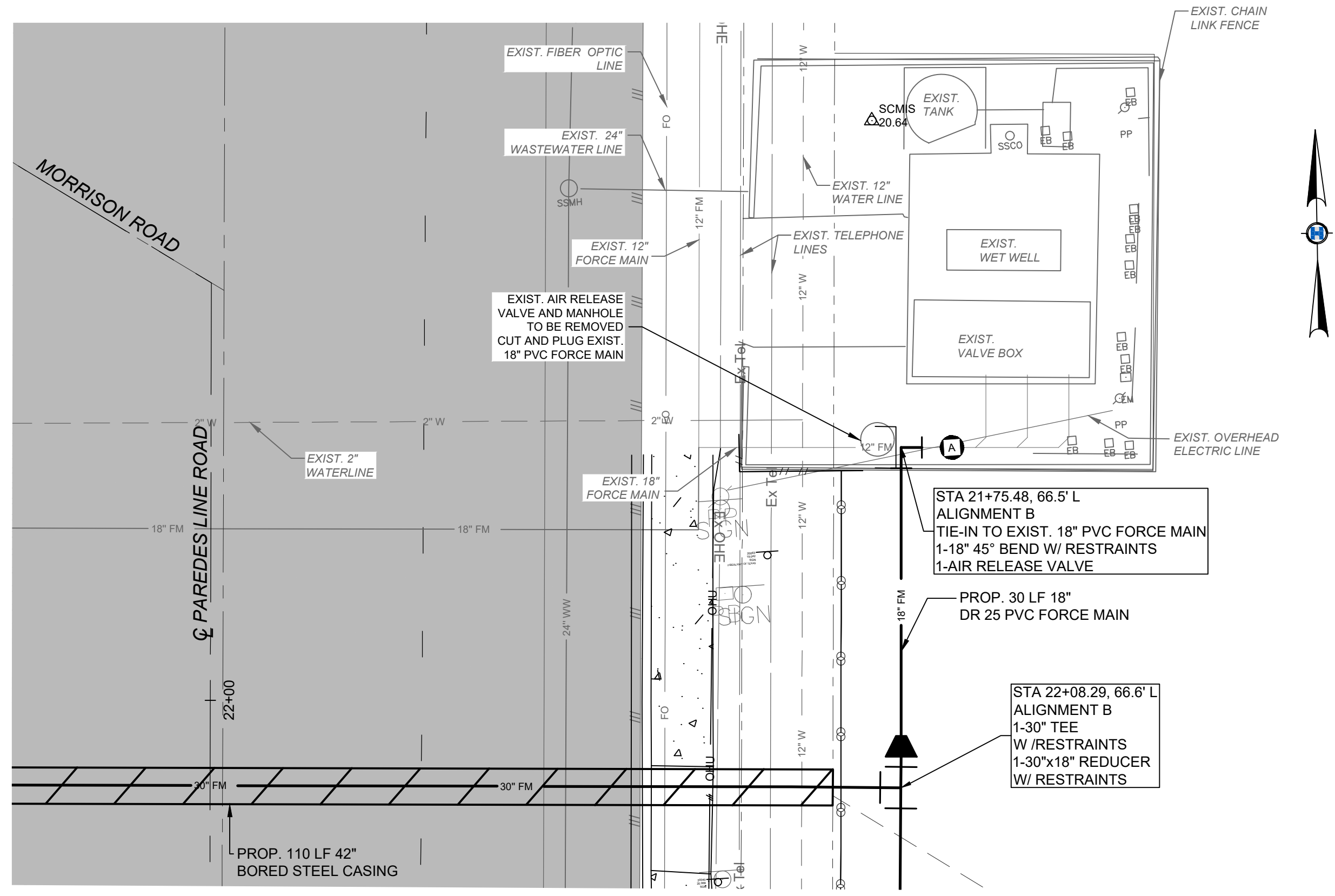
REVISION NO.	DATE	DESCRIPTION



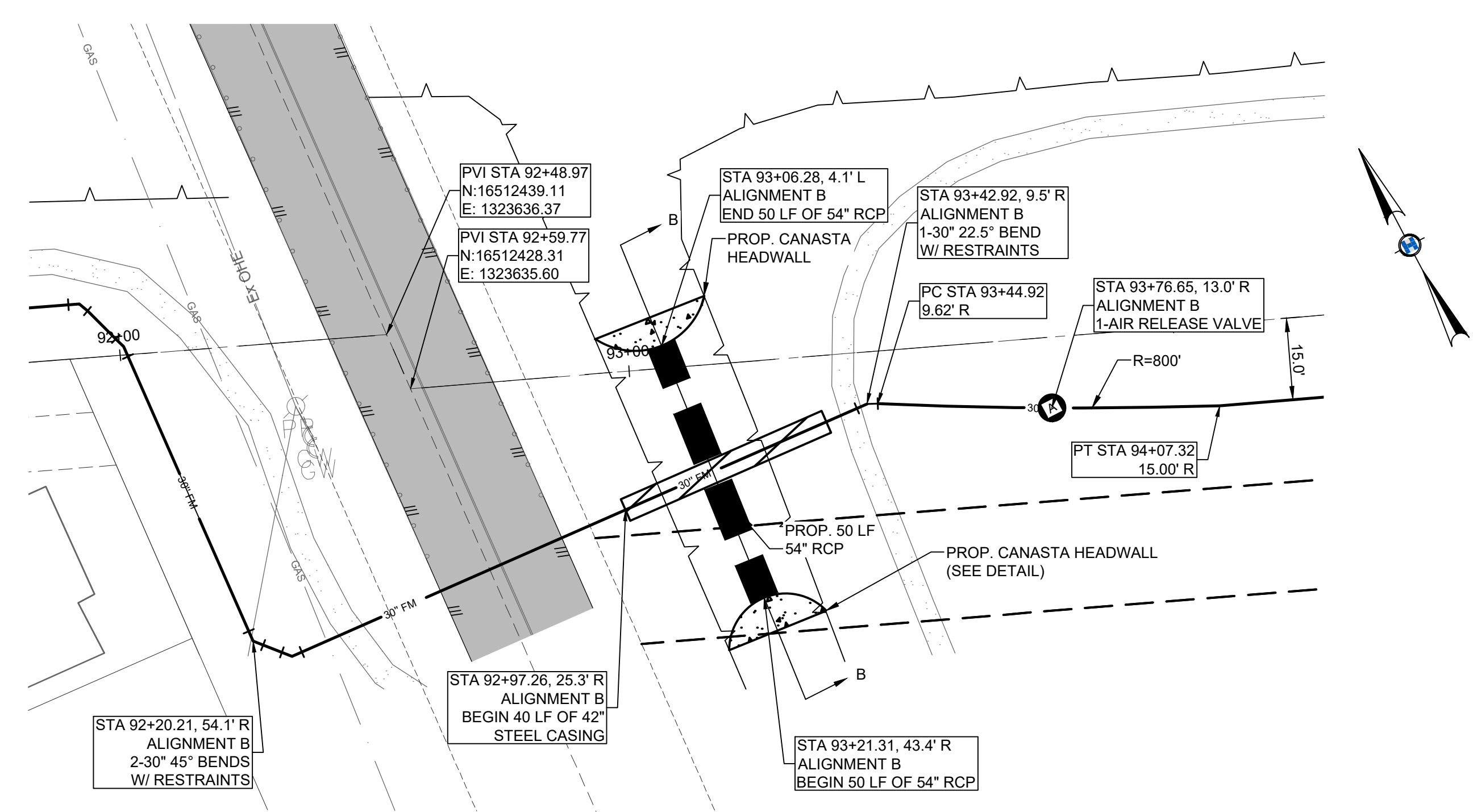
PROJECT NO.:	47277.001
ISSUED:	2/20/2026
DRAWN BY:	MH/ENH
CHECKED BY:	JWC
SCALE:	AS NOTED
SHEET TITLE:	TIE-IN INSERTS
STA 10+00 TO STA 13+92.00	
17	



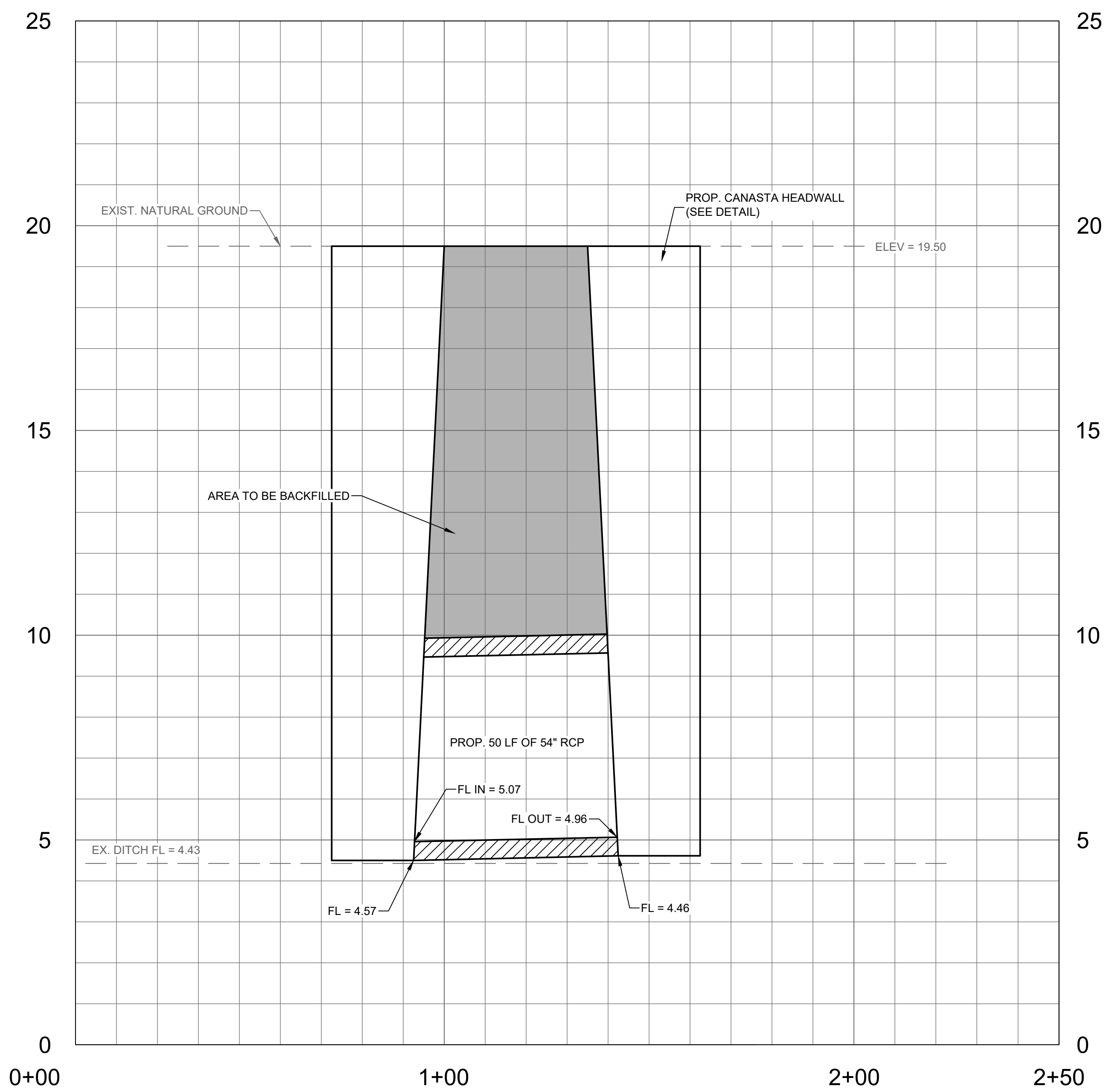
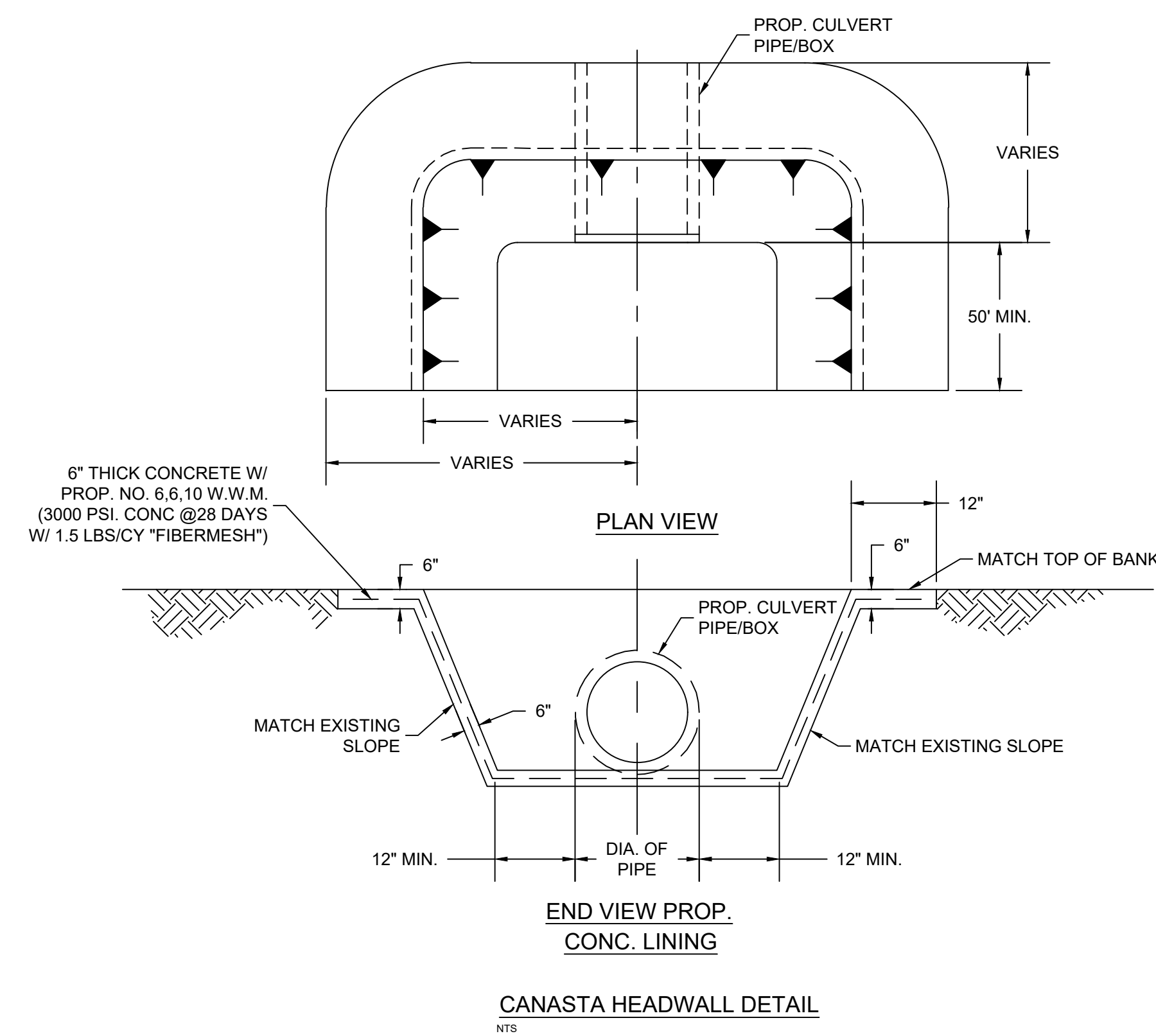
FILE NAME: A:\47000\47277\001\CADD\sheet\broPhase 1\C-P&P-MORRISON & DD-47277.dwg DATE: February 20, 2026, TIME: 5:11 PM, USER: ah3893 AVO: 47277



LIFT STATION #111 TIE-IN
 SCALE 1" = 10'



DETAIL "B"
 SCALE 1" = 20'



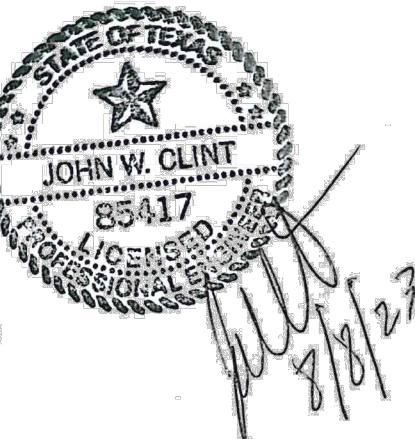
SECTION B - B
 SCALE 1" = 20'

FILE NAME: A:\17000s\47277\001\CADD\sheet\broPhase 1\C-BPUB LS159 & LS111-47277.001.dwg DATE: February 20, 2026, TIME: 5:12 PM, USER: ah3893 AVO: 47277

BROWNSVILLE P.U.B.
 NORTH REGIONAL FORCE MAIN
 PHASE 1
 BROWNSVILLE, TEXAS



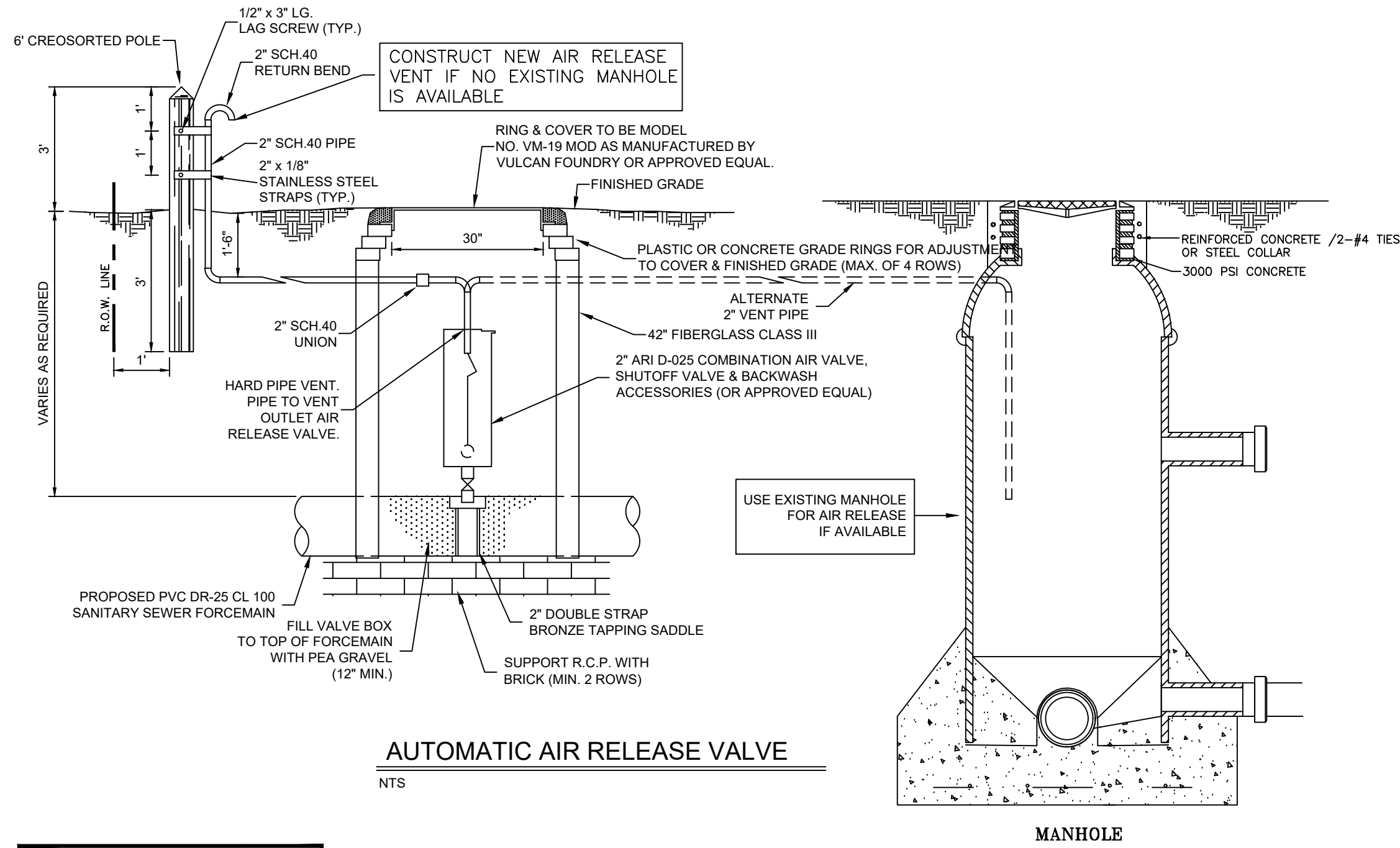
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 47277.001
ISSUED: 2/20/2026
DRAWN BY: MH/ENH
CHECKED BY: JWC
SCALE: AS NOTED
SHEET TITLE:

TIE-IN INSERTS A



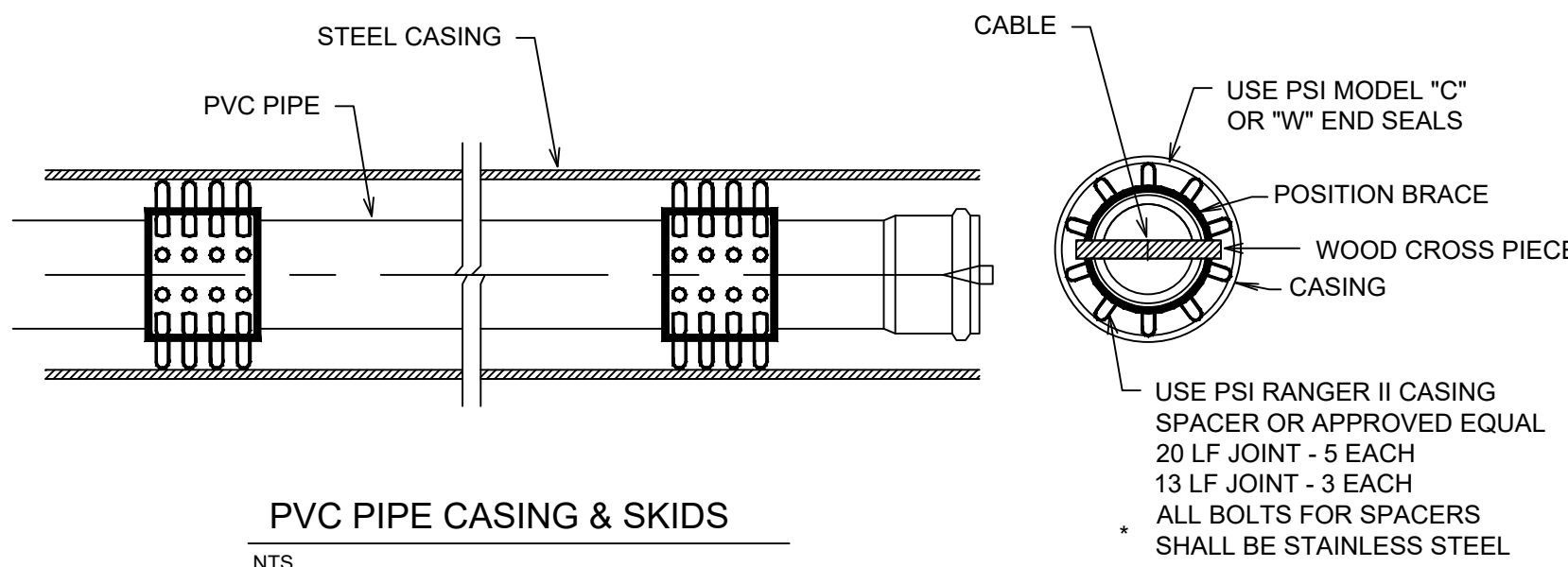


AUTOMATIC AIR RELEASE VALVE
NTS

STEEL CASING WALL THICKNESS CHART	
MINIMUM THICKNESS	DIAMETER OF CASING PIPE
1/4"	12" OR LESS
5/16"	OVER 12"-18"
3/8"	OVER 18"-22"
7/16"	OVER 22"-28"
1/2"	OVER 28"-34"
9/16"	OVER 34"-42"
5/8"	OVER 42"-48"

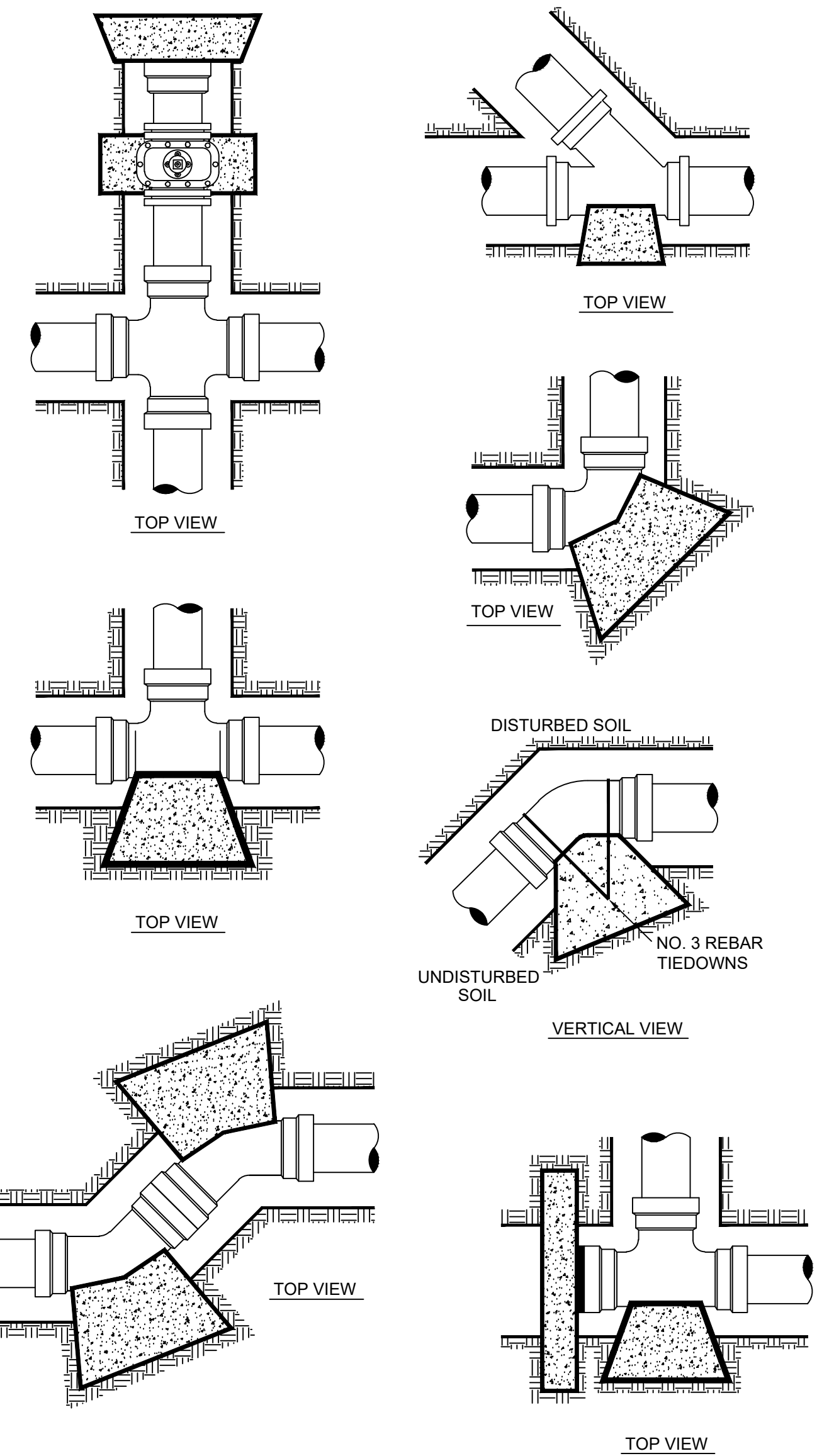
OVER 48" MUST BE APPROVED BY B.P.U.B.

NOTE: THIS CHART IS ONLY FOR SMOOTH STEEL CASING PIPES WITH MINIMUM YIELD STRENGTH OF 35,000 PSI



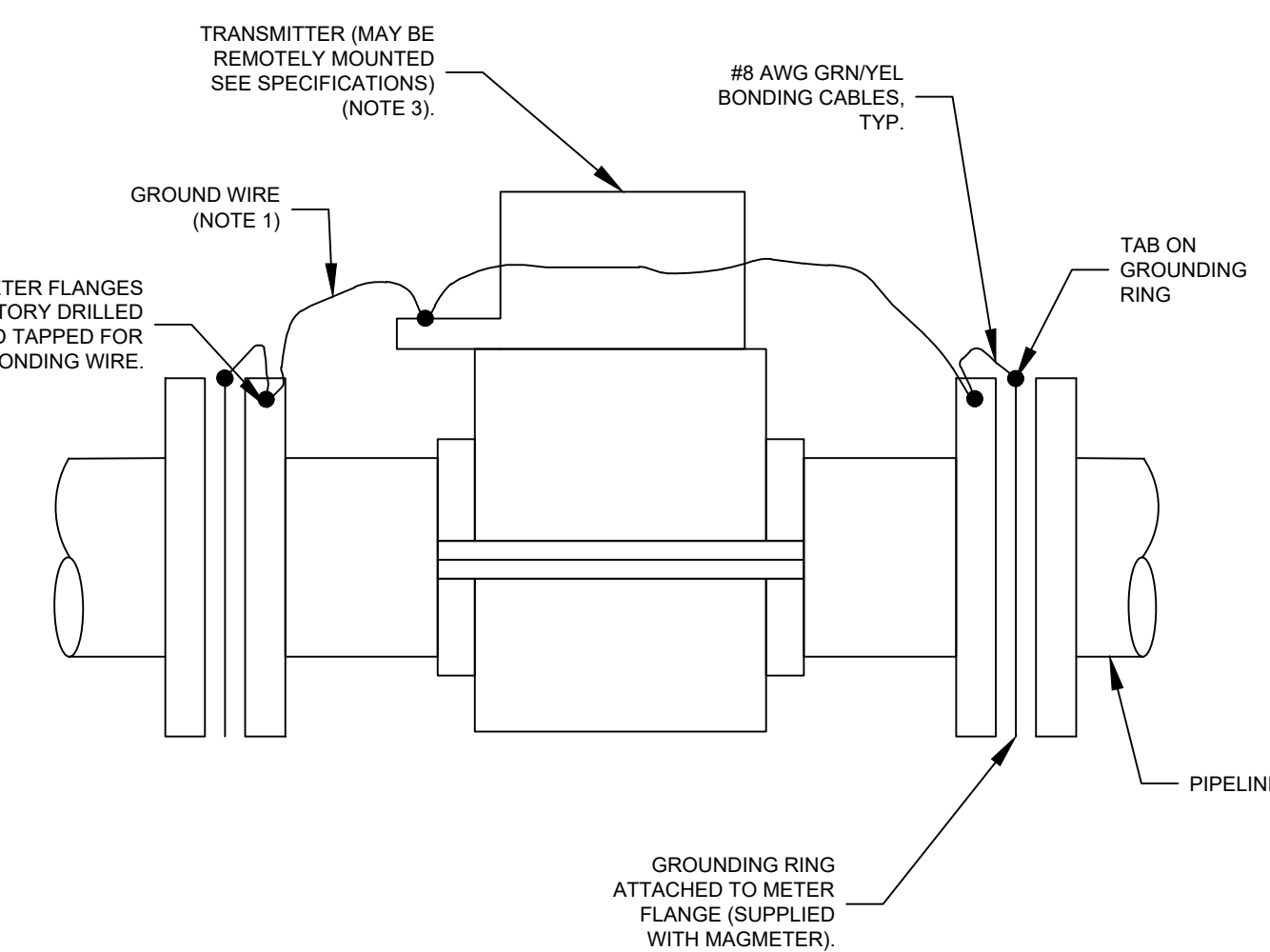
PVC PIPE CASING & SKIDS
NTS

NOMINAL PIPE SIZE	CASING SIZE	NO. OF SKIDS
6"	12"	4
8"	16"	4
12"	20"	4
16"	24"	5
24"	36"	5
30"	42"	6
36"	48"	6



THRUST BLOCK DETAILS
NTS

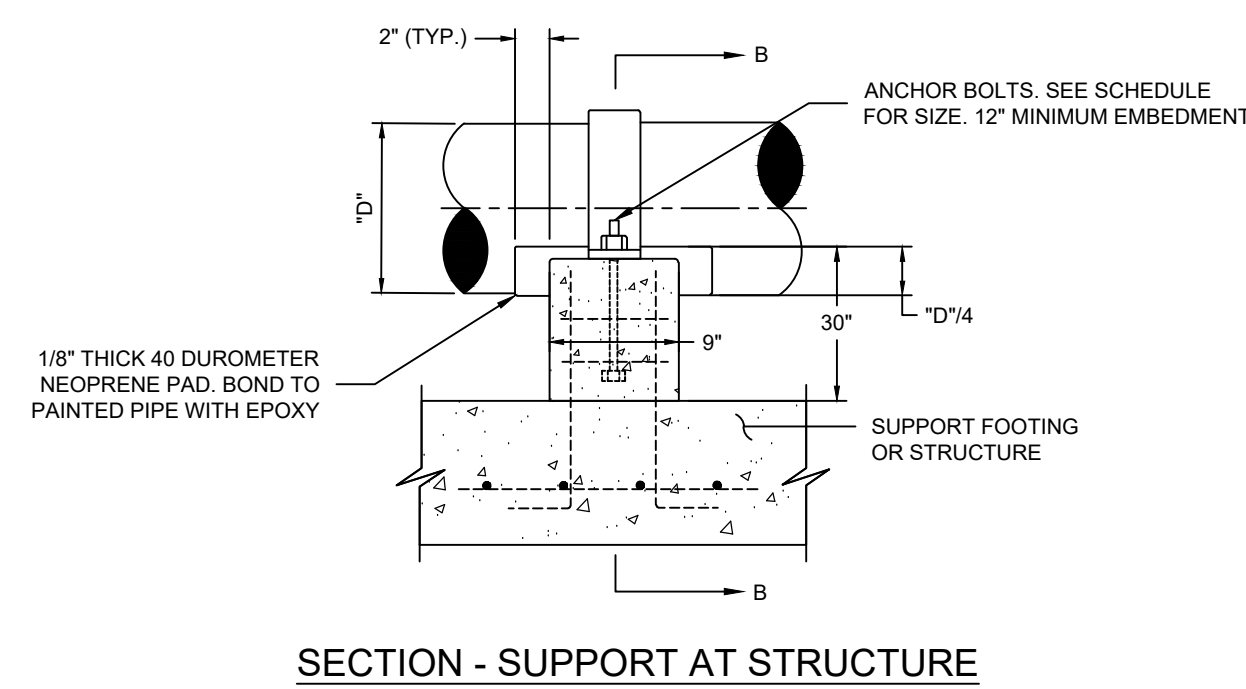
PIPE SIZE	GENERAL DATA FOR BLOCKING STANDARD FITTING					
	THRUST IN TONS EXERTED AT PLUGS, TEES AND BENDS FOR EACH 100 LBS. PER SQ. IN. OF TEST PRESSURE					
	PLUG	TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4"	0.63	0.63	0.89	0.48	0.25	0.12
6"	1.40	1.40	2.00	1.08	0.55	0.28
8"	2.50	2.50	3.55	1.92	0.98	0.49
10"	3.93	3.93	5.55	3.00	1.53	0.77
12"	5.65	5.65	8.00	4.33	2.21	1.11
14"	7.70	7.70	10.88	5.89	3.00	1.51
16"	10.05	10.05	14.21	7.89	3.85	1.97
18"	12.70	12.70	17.99	9.74	4.96	2.49
20"	15.71	15.71	22.22	12.02	6.13	3.08
24"	22.67	22.67	32.00	17.31	8.83	4.43
27"	28.63	28.63	40.48	21.91	11.17	5.61
30"	35.35	35.35	50.00	27.08	13.79	6.93
36"	50.90	50.90	72.98	38.95	19.89	9.98
42"	69.27	69.27	97.97	53.02	27.03	13.58
48"	90.48	90.48	127.96	69.25	35.30	17.74
54"	114.51	114.51	161.94	87.64	44.68	22.45



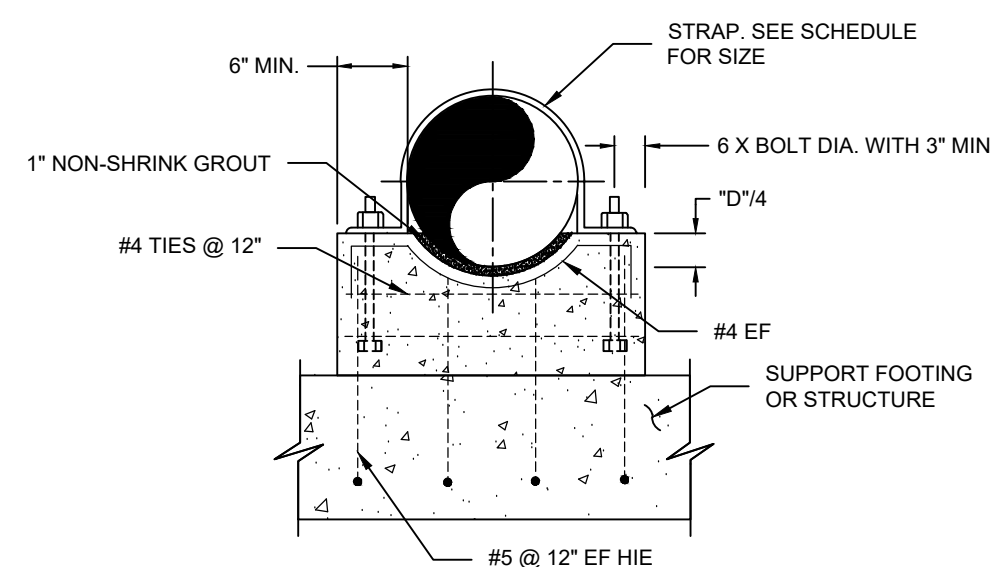
NOTES:

- NO. 8 AWG INSULATED IF LENGTH IS LESS THAN 6'. IF MORE THAN 6', INSTALL CONDUCTOR IN 3/4" CONDUIT.
- BOND MAGMETER TO POWER CIRCUIT GROUND CONDUCTOR AT FLOW ELEMENT.
 - POWER CIRCUIT GROUND CONDUCTOR AT TRANSMITTER
 - NEAREST AVAILABLE EQUIPMENT GROUND CONNECTION POINT.
 - SEPARATE TAIL FROM EMBEDDED GROUND MAT.
- REMOTE TRANSMITTER TO BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATION.

MAGNETIC FLOWMETER INSTALLATION
NTS

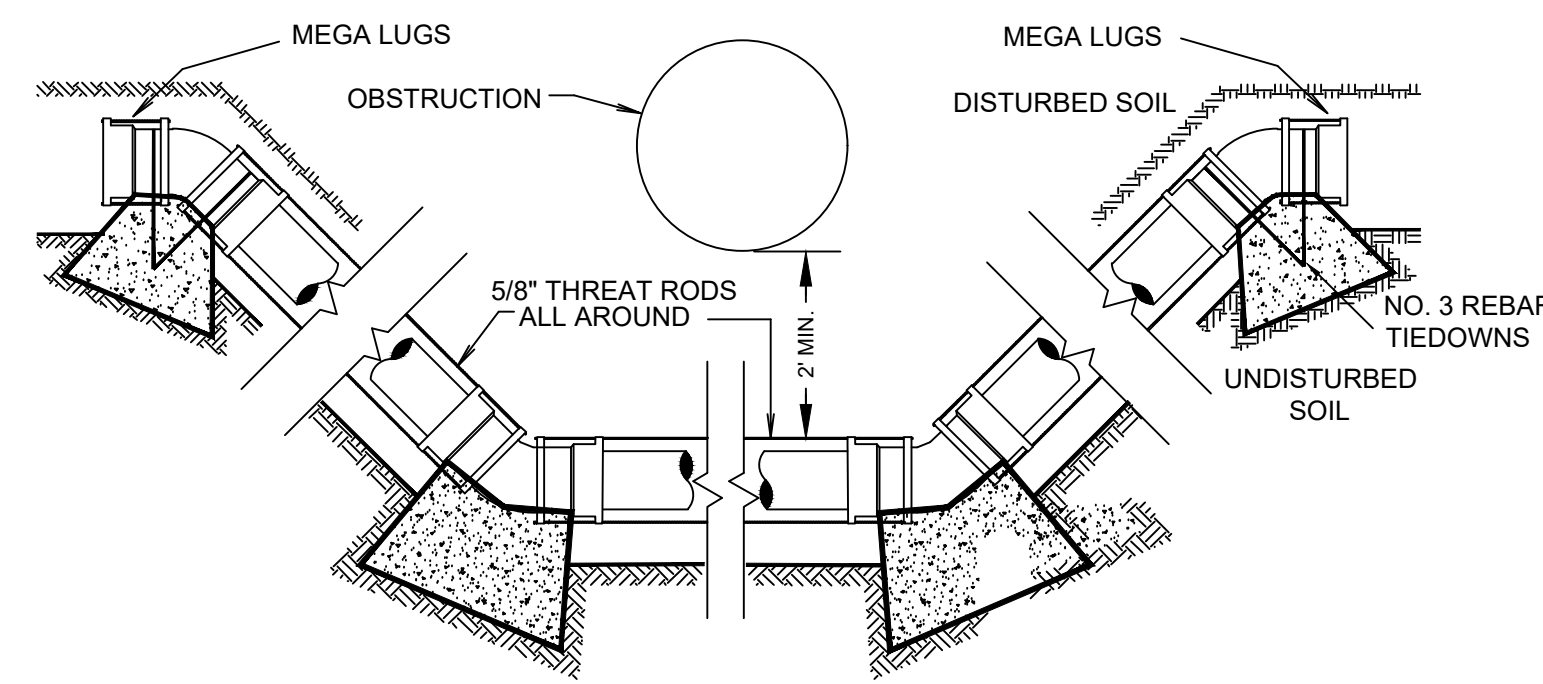


SECTION - SUPPORT AT STRUCTURE



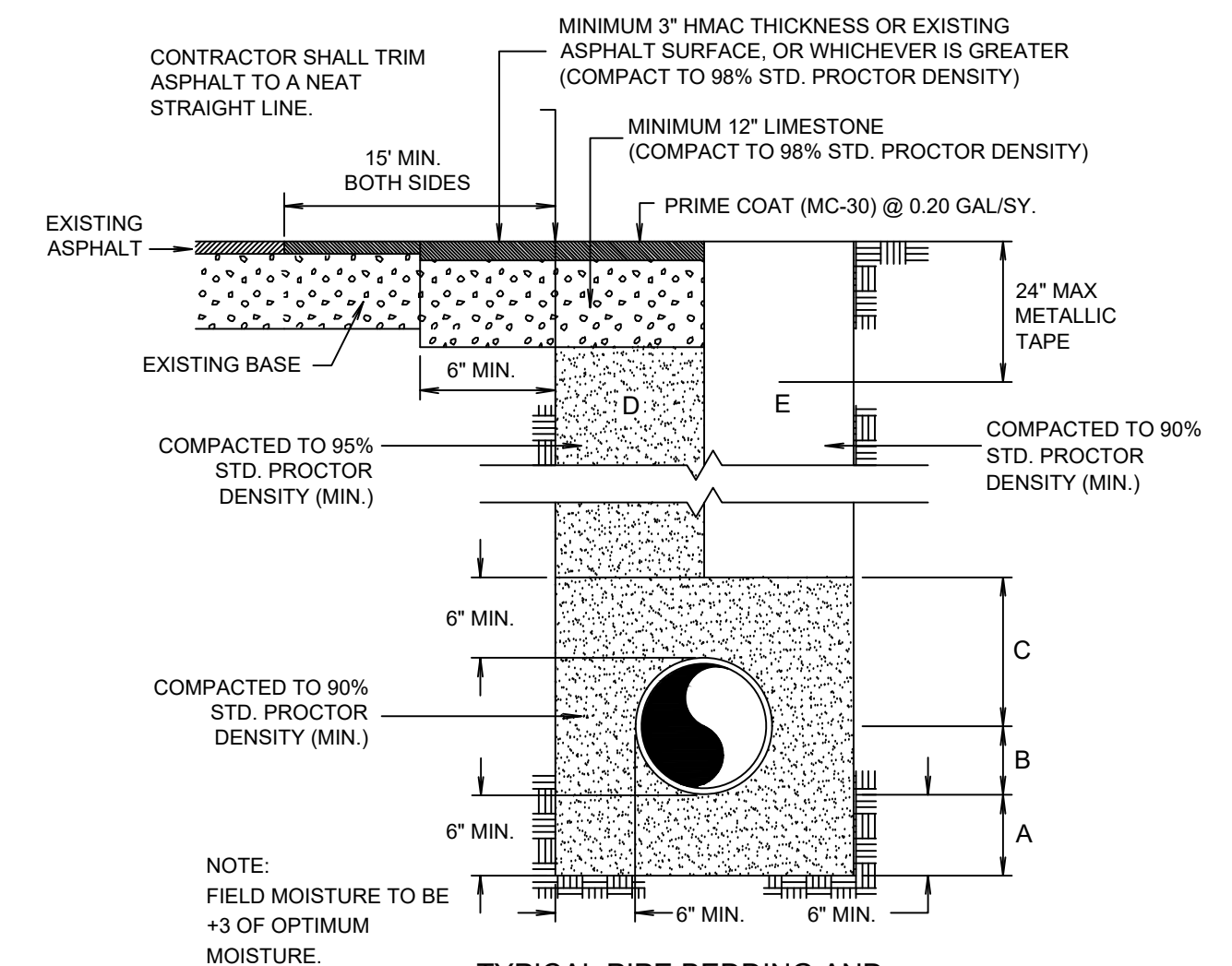
SECTION B-B

CONCRETE PIPE SUPPORT
NTS



ADJUSTMENTS
NTS

SPECIAL CONDITION LINE ADJUSTMENTS 5/8" GALV. ALL THREAT RODS WITH EYELET BOLTS FOR ASSEMBLY WITH THRUST BLOCKS.



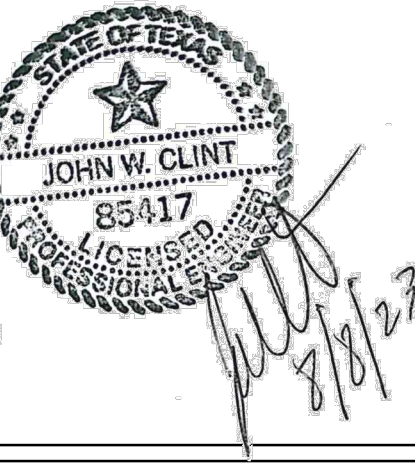
TYPICAL PIPE BEDDING AND TRENCH BACKFILL DETAIL
NTS

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

FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS STABLE. BACKFILL AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE BANK RUN SAND, APPROVED SITE SOIL, OR OTHER APPROVED.

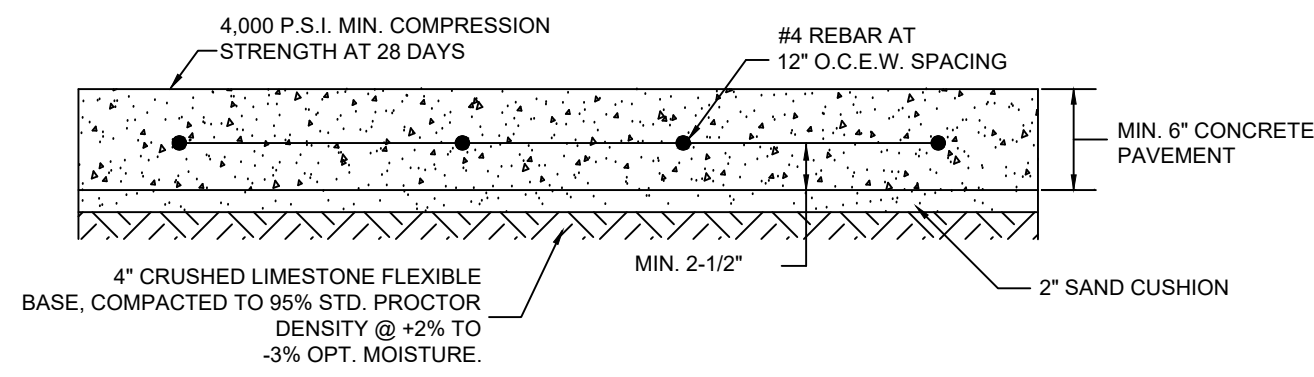


REVISION NO.	DATE	DESCRIPTION



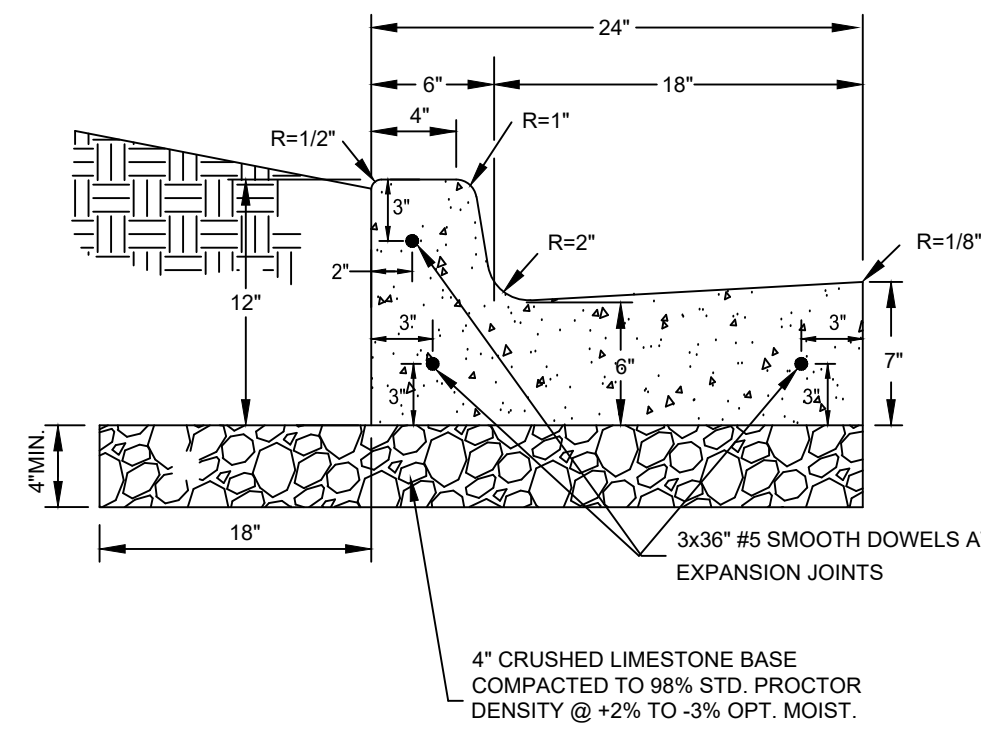
PROJECT NO.: 47277.001
ISSUED: 2/20/2026
DRAWN BY: MH/ENH
CHECKED BY: JWC
SCALE: AS NOTED
SHEET TITLE:

WASTEWATER DETAILS



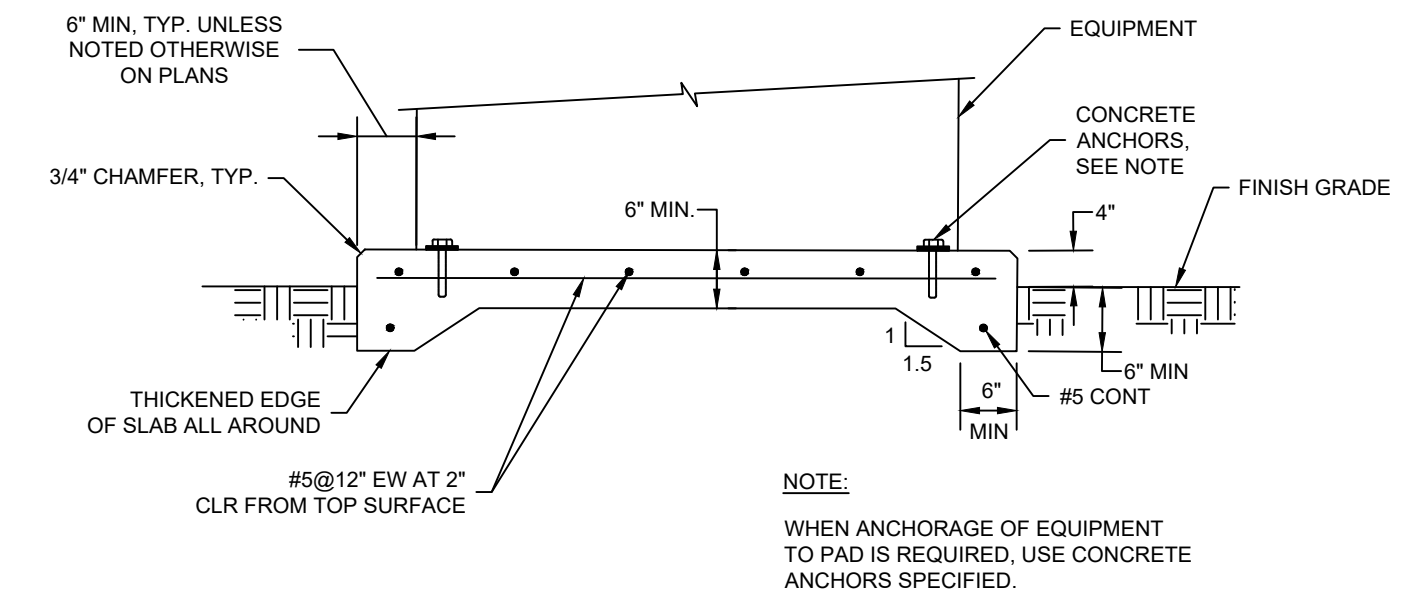
NOTES:
 1. CONTRACTION JOINTS SHALL BE CONSTRUCTED EVERY 10' EACH DIRECTION WITH ISOLATION (EXPANSION) JOINTS EVERY 40', EXCEPT WHERE NOTED ON ENTRANCE DETAILS.
 2. THE ABOVE CONCRETE PAVEMENT SECTION IS CONSIDERED THE MINIMUM STANDARD FOR CONCRETE PAVEMENT SECTIONS WITHIN NEW RESIDENTIAL AND COLLECTOR STREET CONSTRUCTION. THIS PAVEMENT SECTION IS NOT CONSIDERED FOR BUS PADS. THE DEVELOPER SHALL PROVIDE A DESIGNED CONCRETE PAVEMENT SECTION, PREPARED BY A CITY APPROVED GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF TEXAS, FOR THE CITY OF BROWNSVILLE'S REVIEW.

CONCRETE PAVEMENT DETAIL
NTS

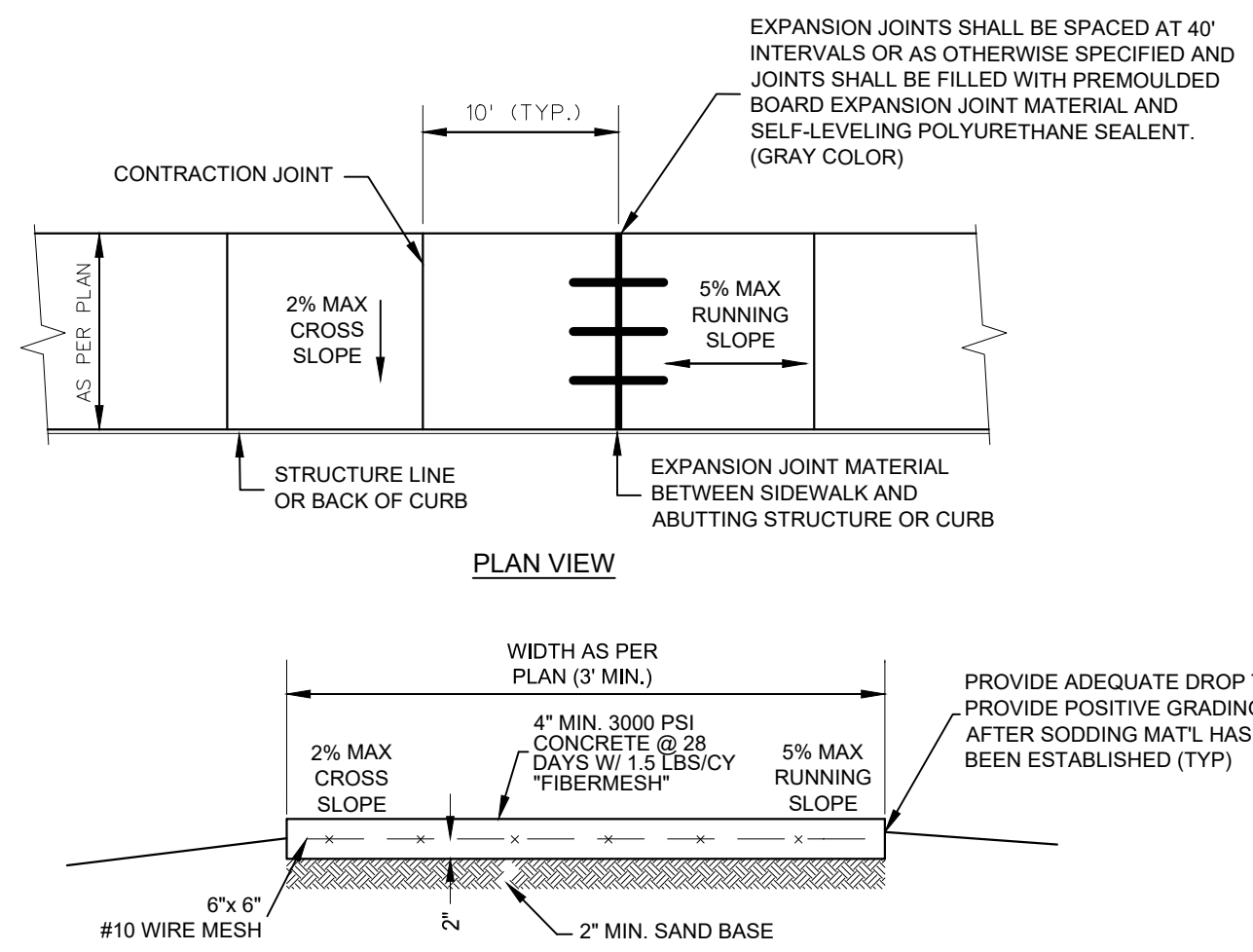


NOTES:
 1. CONCRETE SHALL BE CLASS "A" WITH A 3,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS WITH 1.5 LBS/CY "FIBERMESH".
 2. CURBS SHALL BE BACKFILLED IMMEDIATELY AFTER REMOVAL OF FORMS TO PREVENT TILTING.
 3. 1" DEEP CONTRACTION JOINTS @ 10 O.C. MAX.
 4. EXPANSION JOINTS WILL BE PLACED AT CURB RETURNS, INLETS, AND END OF EACH POUR WITH INTERVALS NOT TO EXCEED 40 LF.
 5. JOINTS WILL CONSIST OF BOARD EXPANSION JOINT MATERIAL AND SELF LEVELING POLYURETHANE SEALANT (GRAY COLOR) WITH 3/32" #5 SMOOTH DOWELS, ONE END GREASED AND WRAPPED.
 6. CARE MUST BE TAKEN THAT THE DOWELS ARE STRAIGHT AND LAID PARALLEL WITH CURB AND NO CONCRETE "PLUGS" OR OTHER MATERIAL BE ALLOWED THROUGH THE DOWEL HOLES OR EXPANSION MATERIAL THAT WOULD PREVENT JOINT FROM OPERATING AS AN EXPANSION JOINT.
 7. PROOF ROLL EXIST. SUBGRADE. ANY UNSTABLE SUBGRADE SHALL BE REMOVED AND REPLACED WITH FLEXIBLE BASE OR APPROVED SALVAGE MATERIAL.

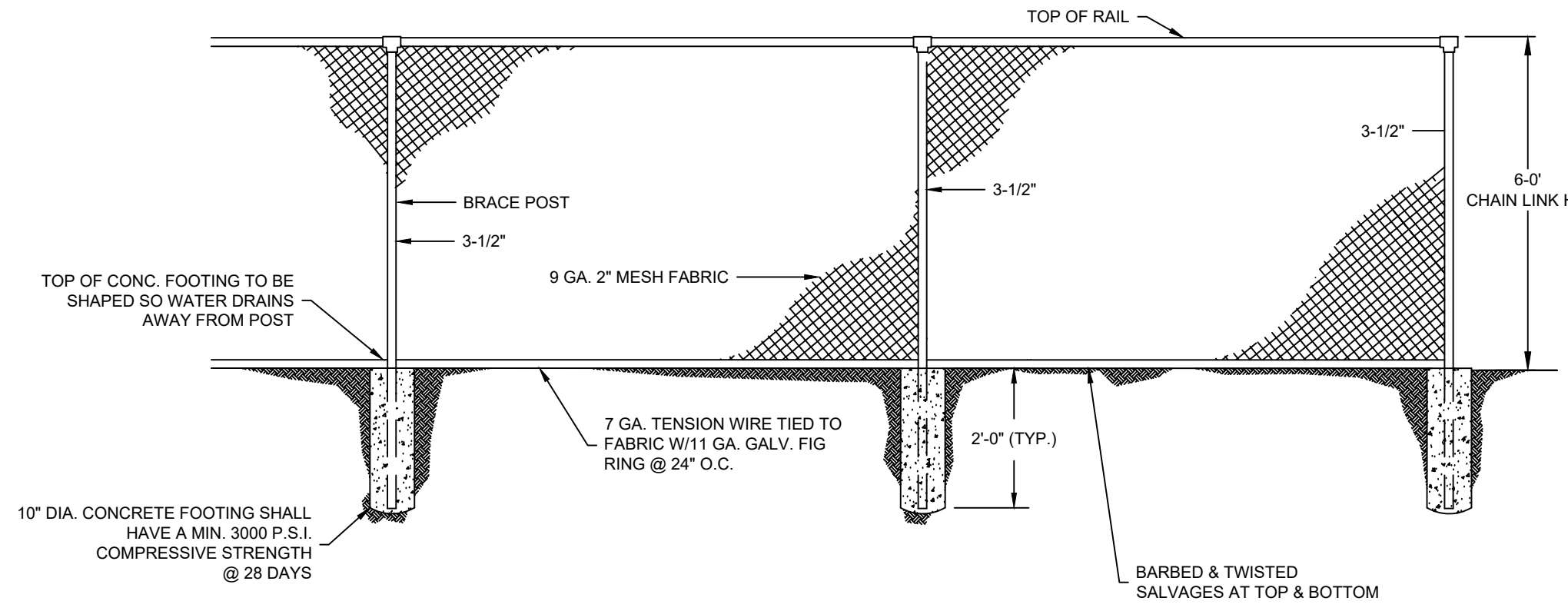
TYPICAL CURB AND GUTTER SECTION
NTS



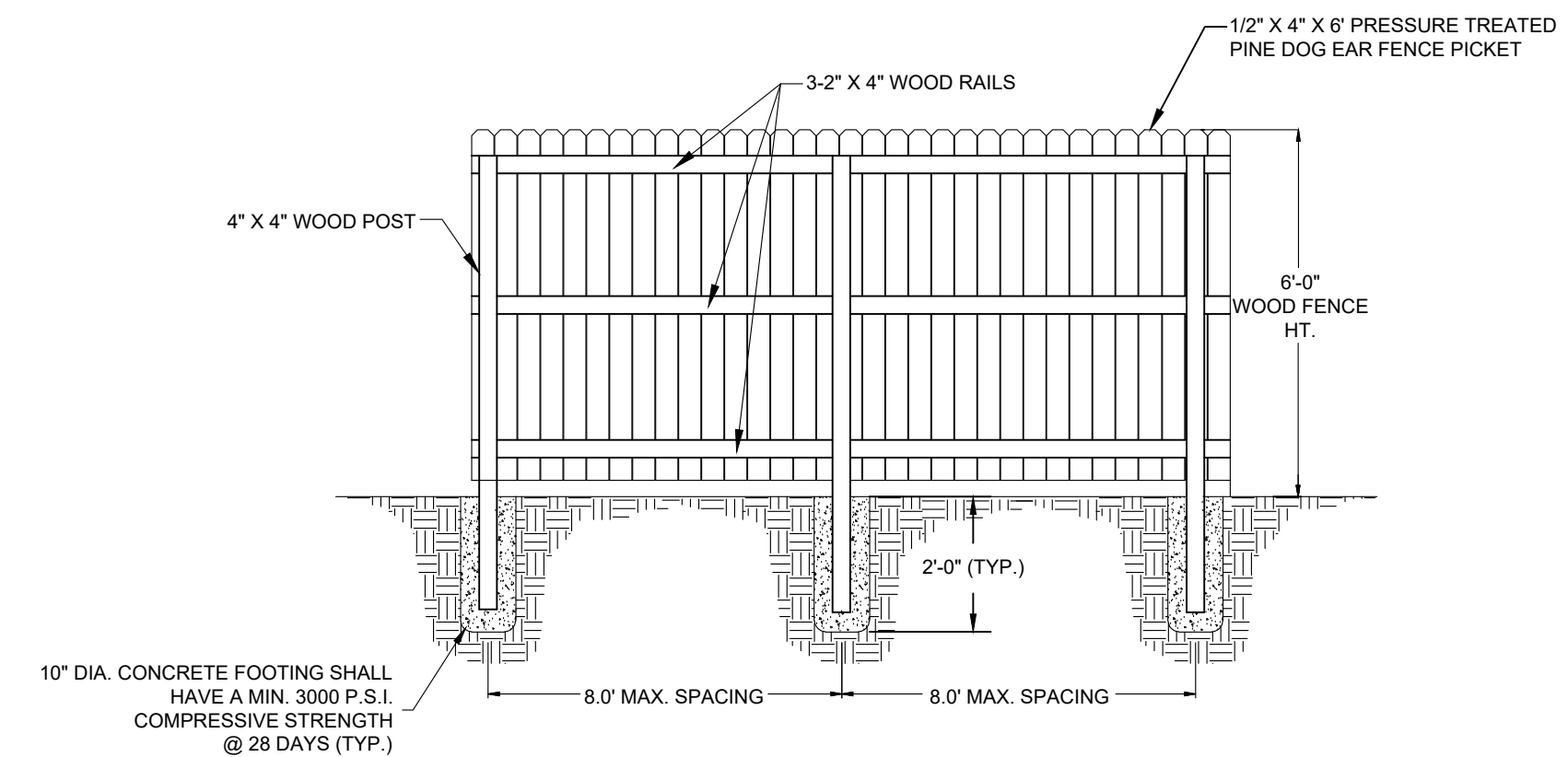
CONCRETE EQUIPMENT PAD - TYPE G
NTS



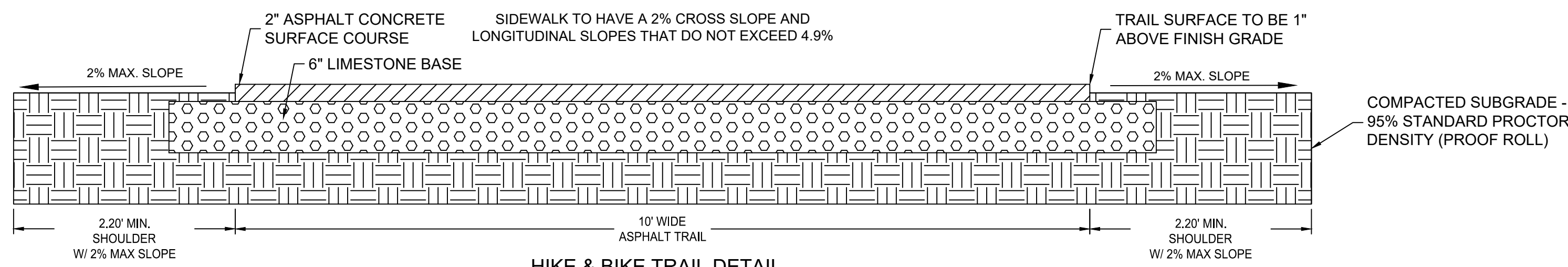
CONCRETE SIDEWALK DETAIL
NTS



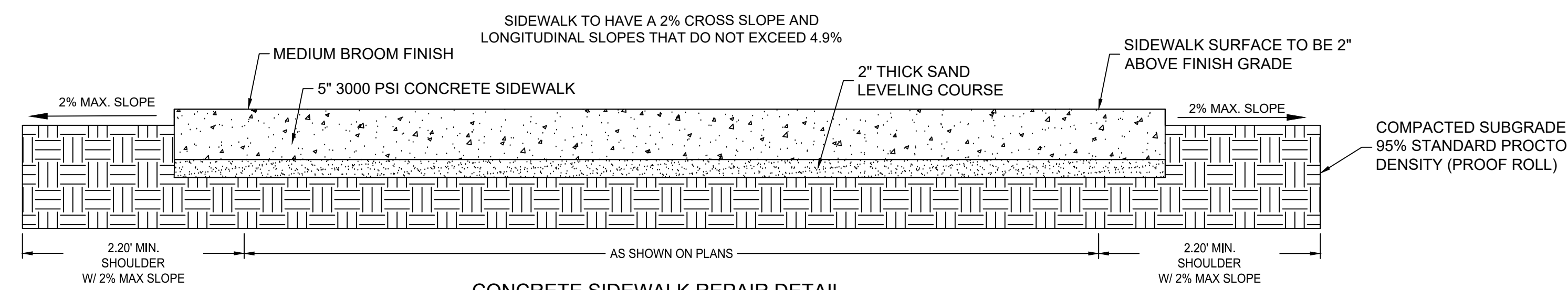
CHAIN LINK FENCE DETAIL
NTS



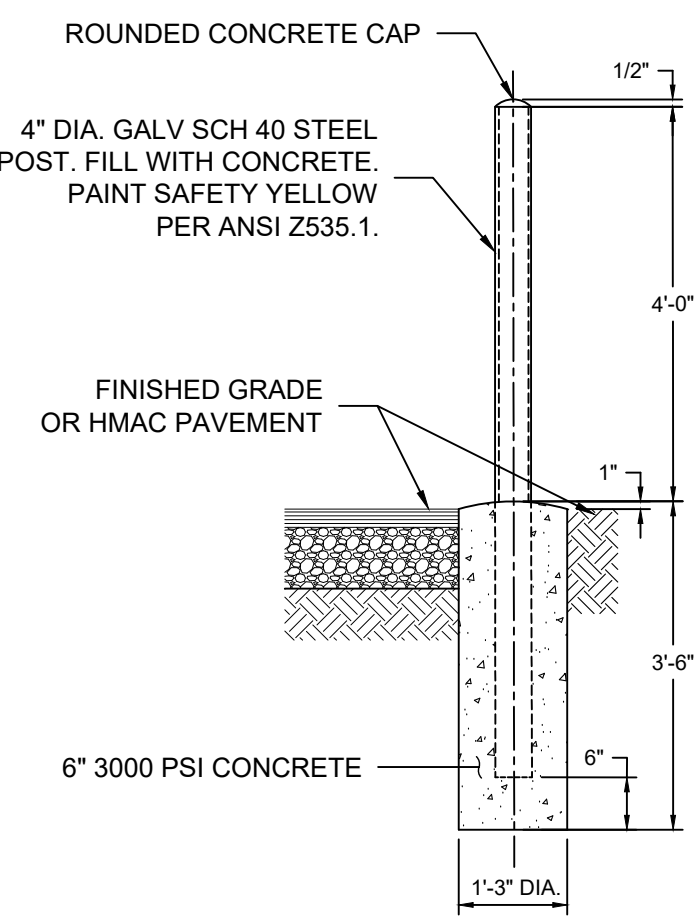
WOOD FENCE DETAIL
NTS



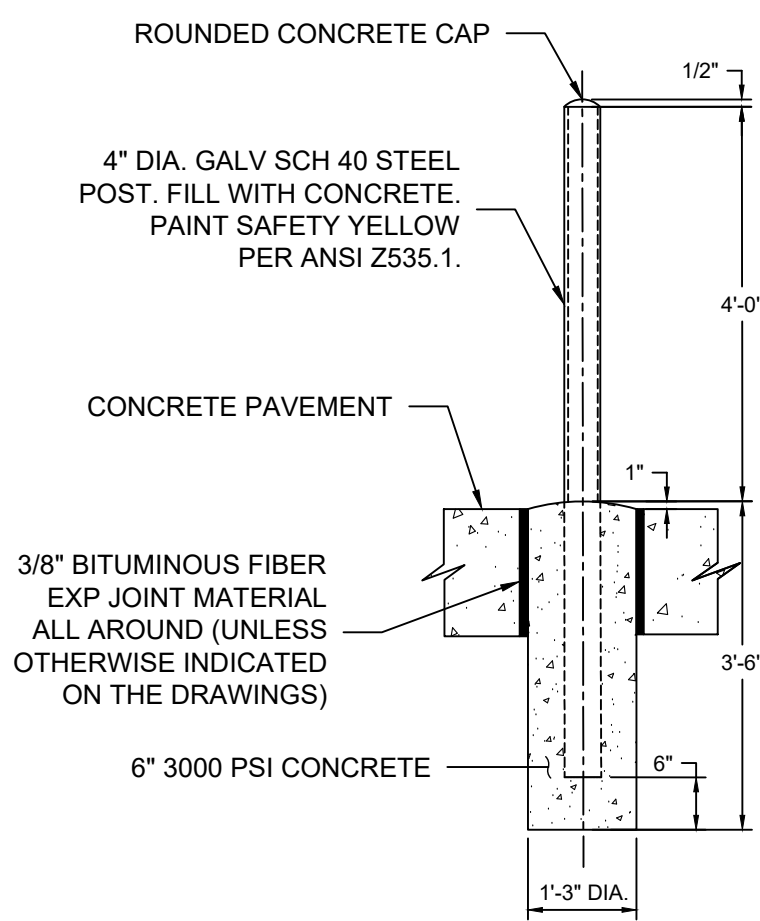
HIKE & BIKE TRAIL DETAIL
NTS



CONCRETE SIDEWALK REPAIR DETAIL
NTS



HMAL PAVEMENT OR FINISHED GRADE
NTS



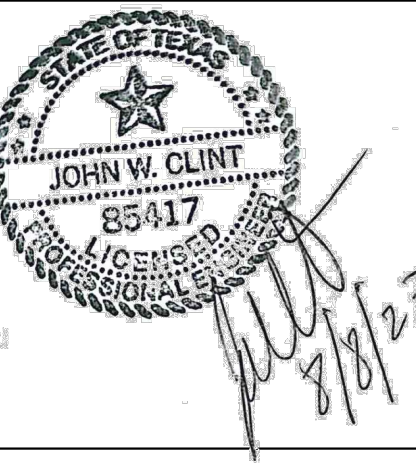
CONCRETE PAVEMENT OR FINISHED GRADE
NTS

GUARD POST
NTS

BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
BROWNSVILLE, TEXAS



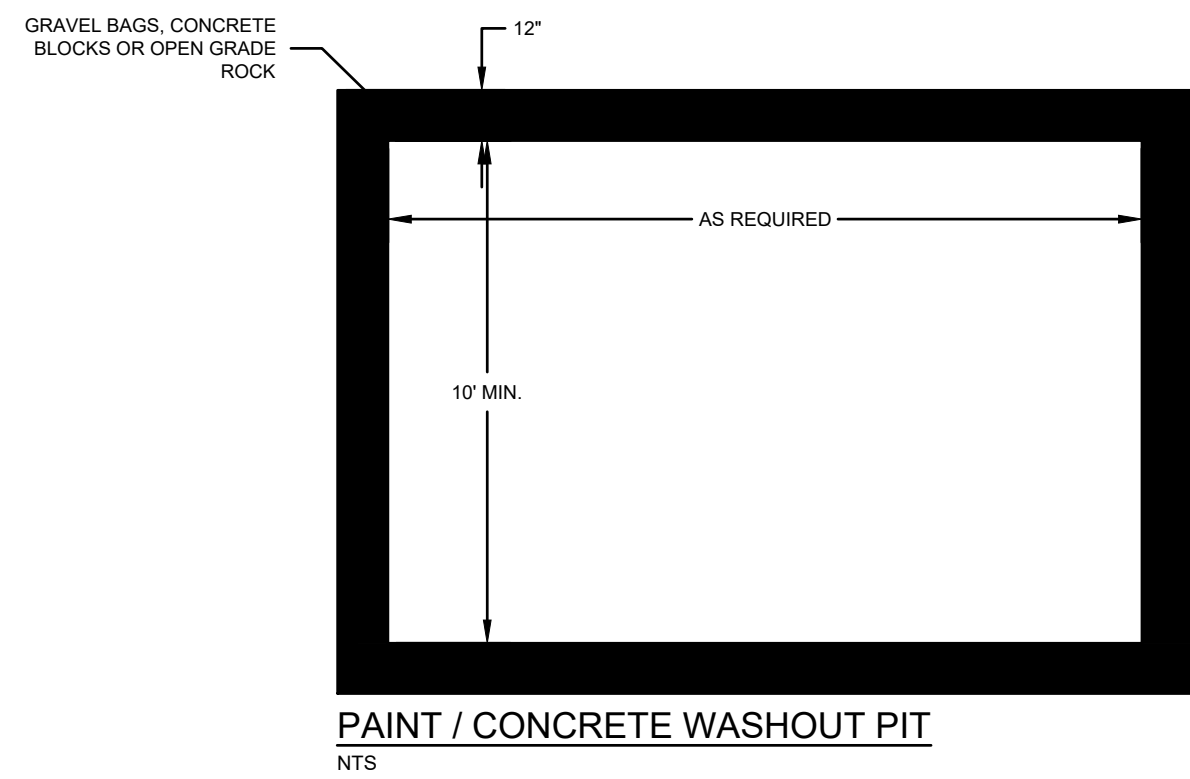
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 47277.001
 ISSUED: 2/20/2026
 DRAWN BY: MH/ENH
 CHECKED BY: JWC
 SCALE: AS NOTED
 SHEET TITLE:

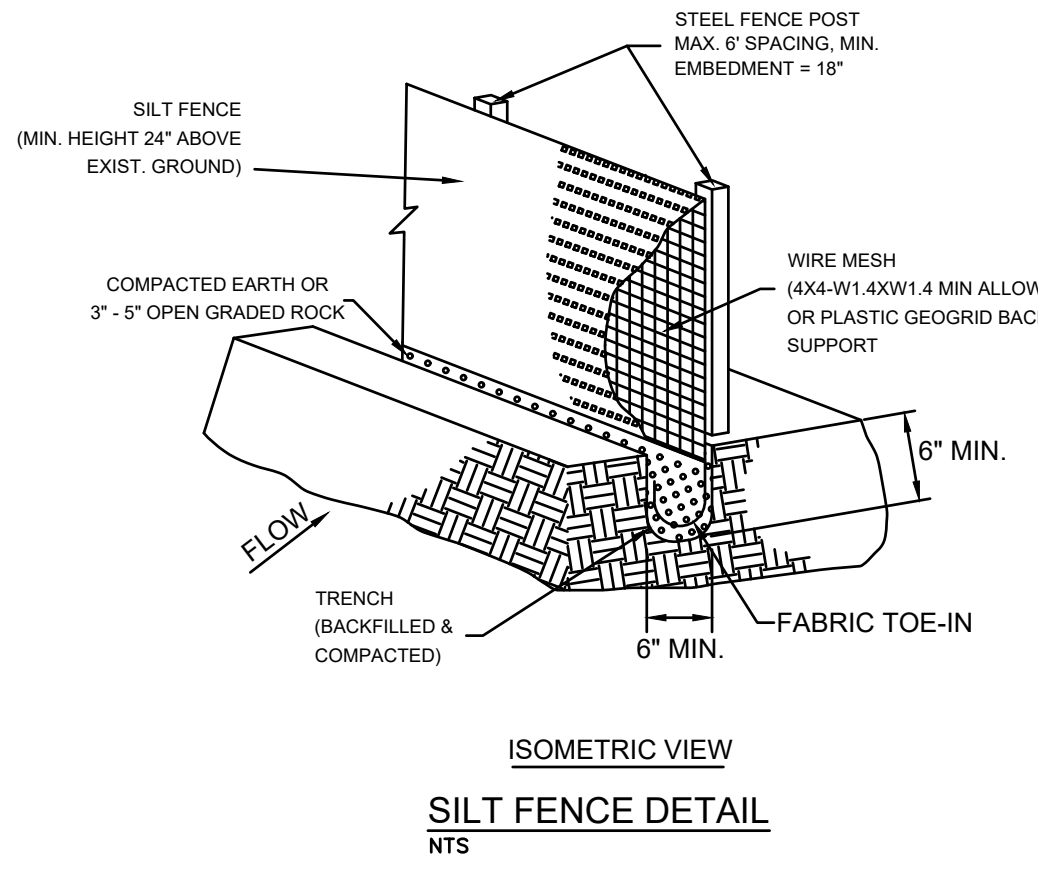
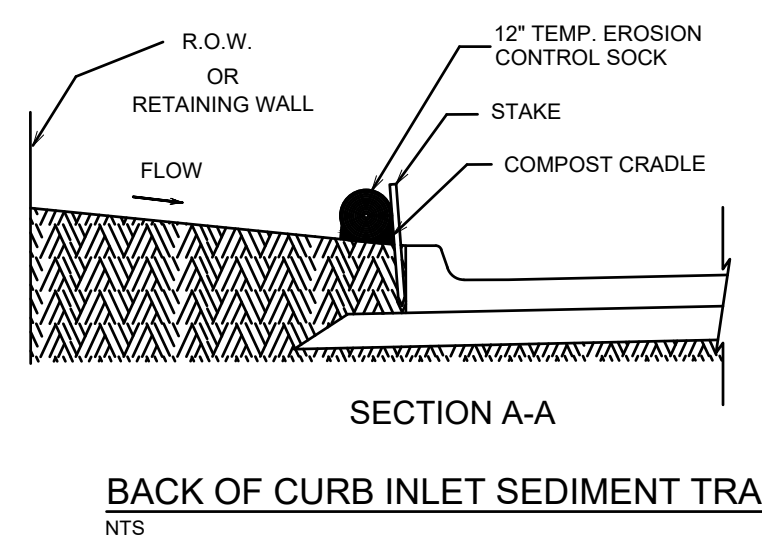
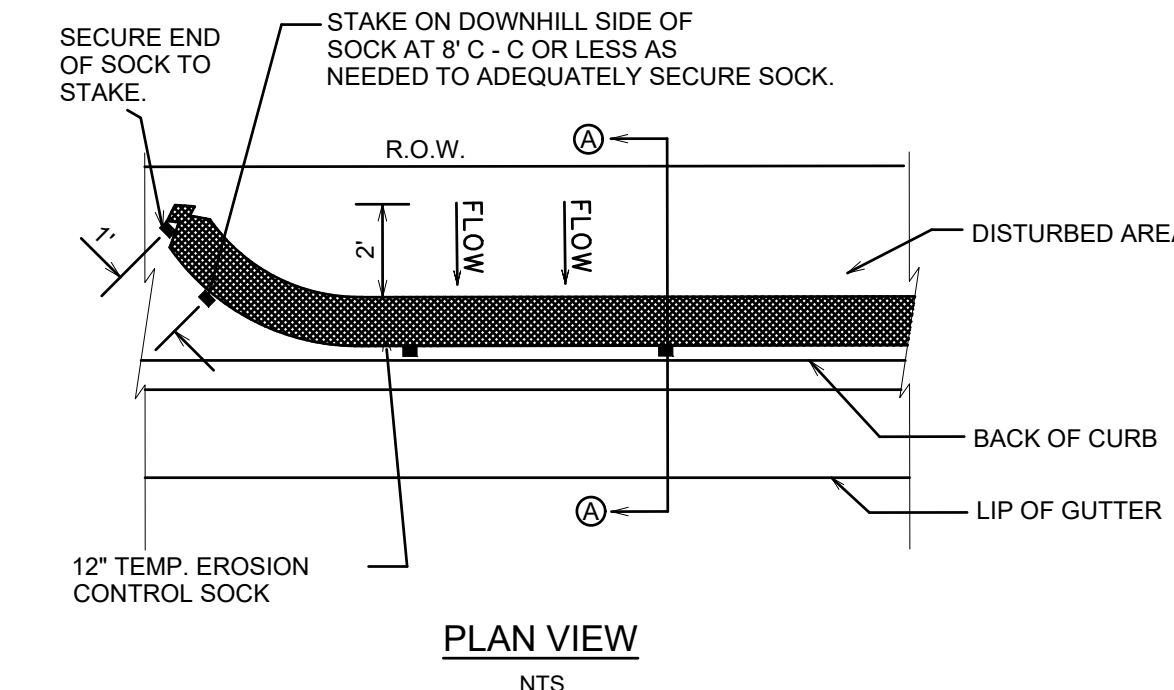
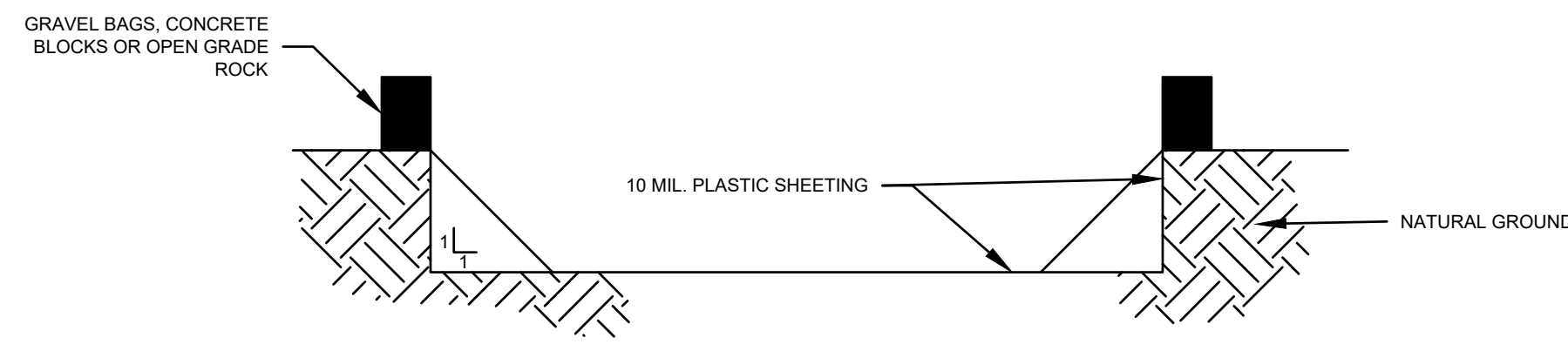
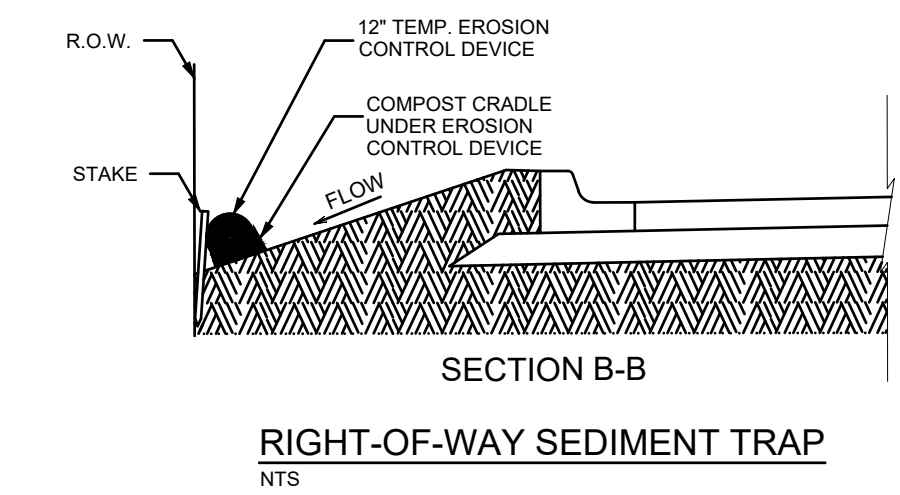
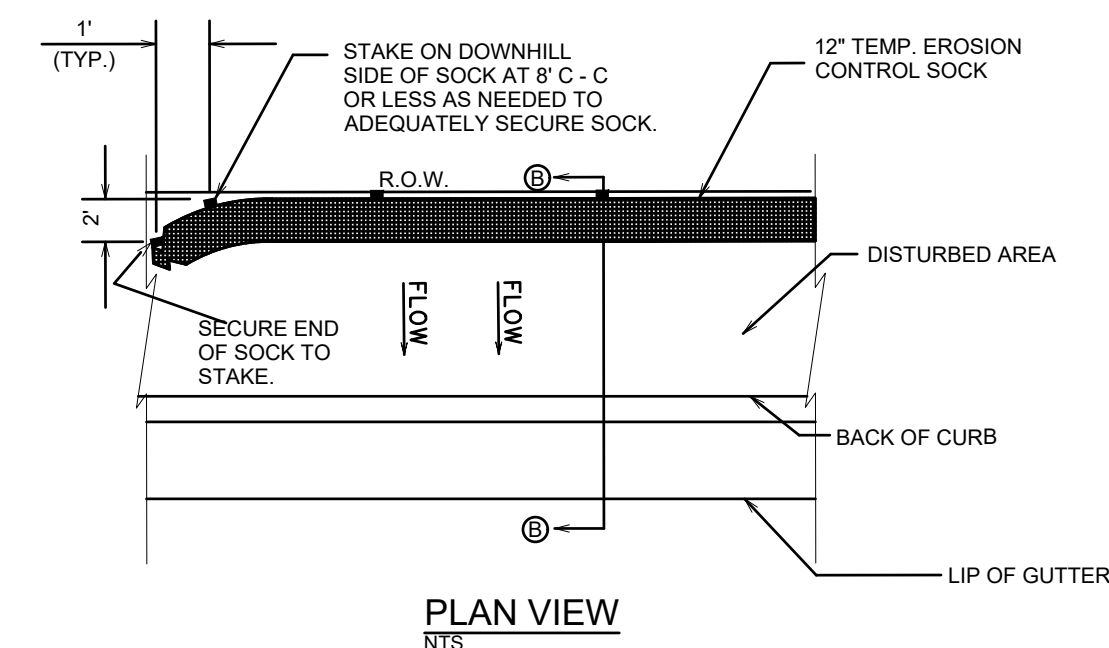
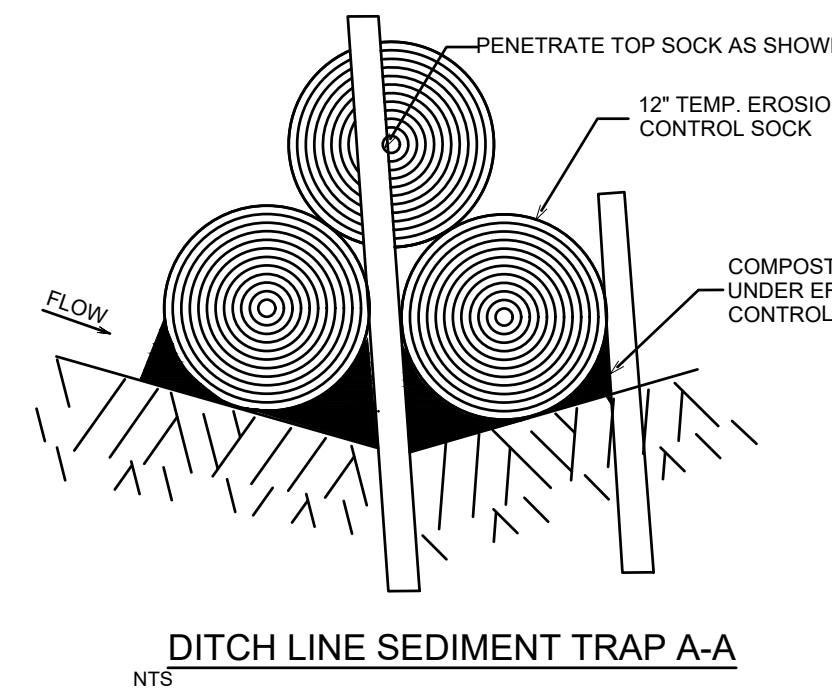
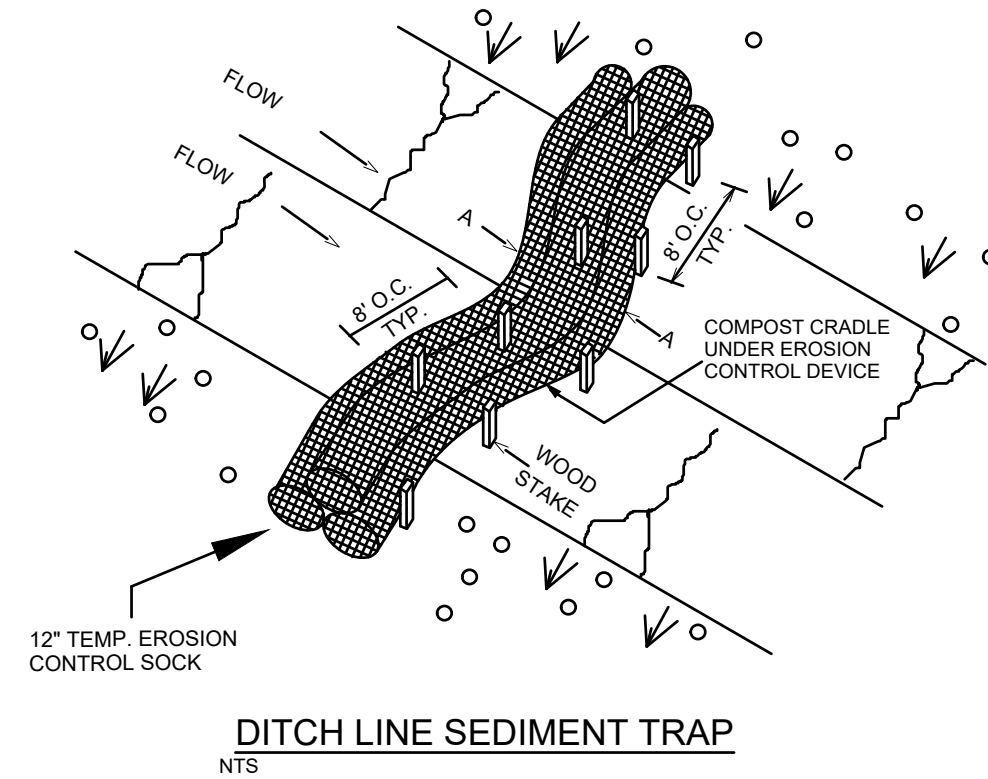
PAVING DETAILS

FILE NAME: A:\47000s\47277\001\CADD\sheet\broPhase 1\C-DETAILS-47277.001.dwg DATE: February 20, 2026, TIME: 5:48 PM, USER: ah3893, AVO: 47277



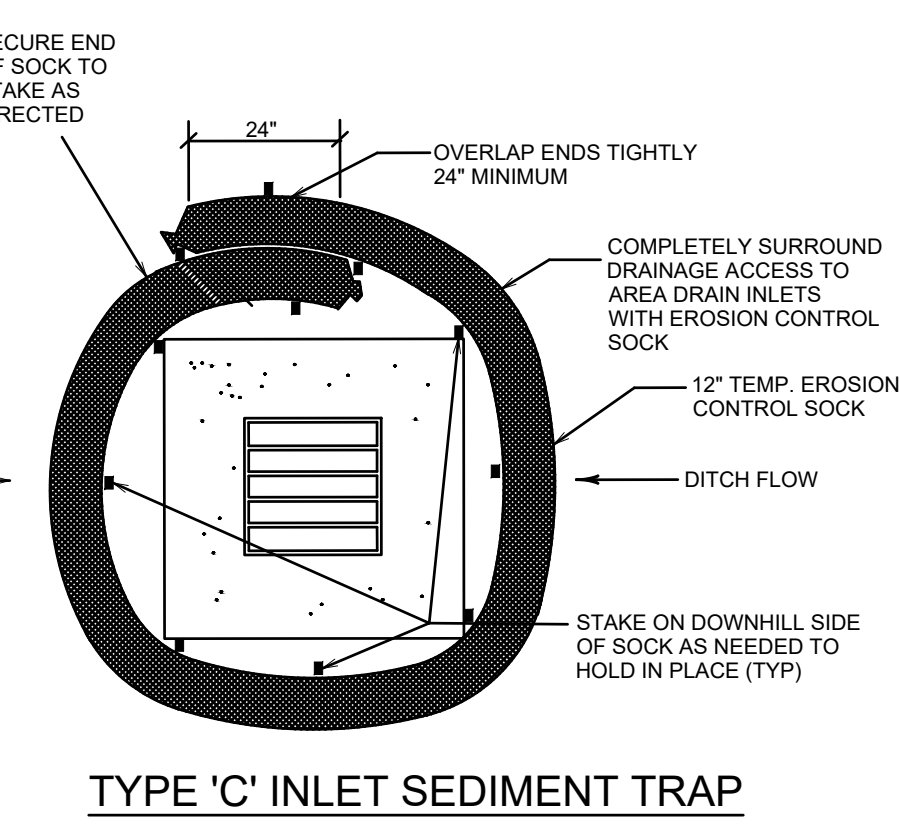
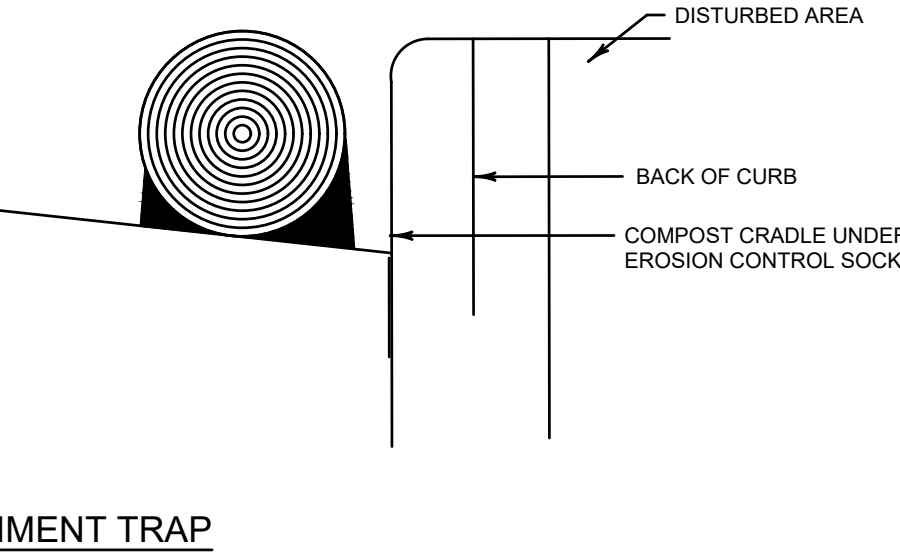
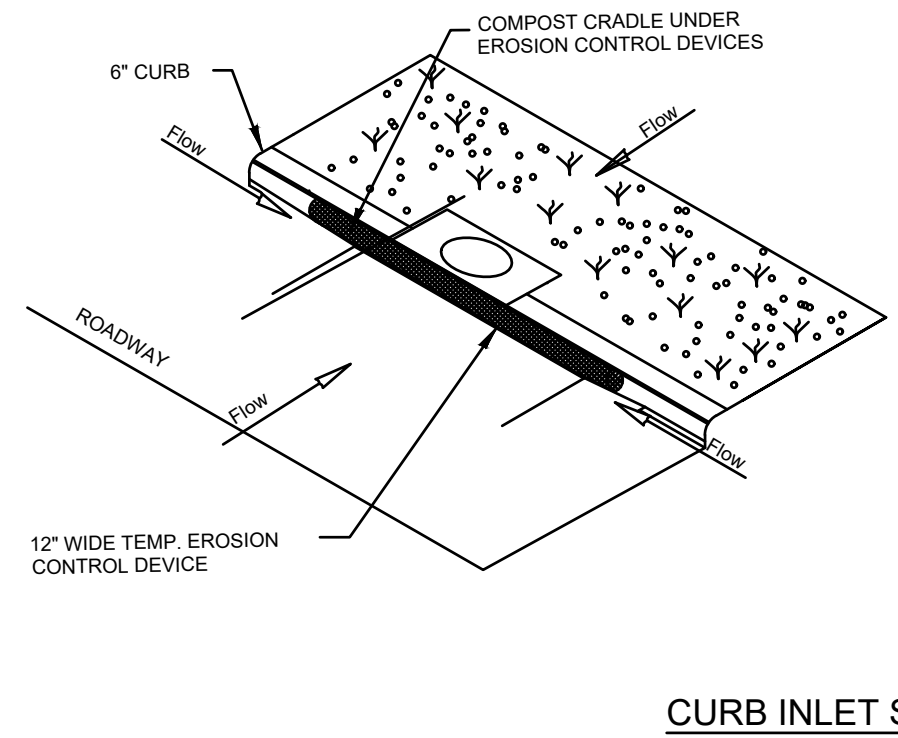
WASHOUT PIT NOTES

1. THE EXCAVATION FOR THE CONCRETE WASHOUT SHALL BE A MINIMUM OF 10' WIDE AND A SUFFICIENT LENGTH AND DEPTH TO ACCOMMODATE 7 GALLONS OF WASHOUT WATER AND CONCRETE PER TRUCK PER DAY AND/OR 50 GALLONS WATER AND CONCRETE PER PUMP TRUCK PER DAY.
2. IN THE EVENT THAT THE CONCRETE TRUCK WASHOUT IS CONSTRUCTED ABOVE GROUND, IT SHALL BE 10 FEET WIDE AND 10 FEET LONG WITH THE SAME REQUIREMENTS FOR CONTAINMENT AS DESCRIBED IN NOTE 1.
3. THE CONTAINMENT AREA SHALL BE LINED WITH 10 MIL. PLASTIC SHEETING WITHOUT HOLES OR TEARS. WHERE THERE ARE SEAMS, THESE SHALL BE SECURED ACCORDING TO MANUFACTURERS' DIRECTIONS.
4. THE BERM CONSISTING OF GRAVEL BAGS, CONCRETE BLOCKS OR OPEN GRADED ROCK SHALL BE NO LESS THAN 18 INCHES HIGH AND NO LESS THAN 12 INCHES WIDE.
5. THE PLASTIC SHEETING SHALL BE OF SUFFICIENT SIZE SO THAT IT WILL OVER LAP THE TOP OF THE CONTAINMENT AREA AND BE WRAPPED AROUND THE GRAVEL BAGS, CONCRETE BLOCKS OR OPEN GRADED ROCK AT LEAST TWO TIMES.
6. THE GRAVEL BAGS, CONCRETE BLOCKS OR OPEN GRADED ROCK SHALL BE PLACED ABUTTING EACH OTHER TO FORM A CONTINUOUS BERM AROUND THE OUTER PERIMETER OF THE CONTAINMENT AREA.
7. THE WASHOUT MATERIAL IN THE CONTAINMENT AREA SHALL NOT EXCEED 50% OF CAPACITY AT ANY ONE TIME.
8. SOLIDS SHALL BE REMOVED FROM CONTAINMENT AREA AND DISPOSED OF PROPERLY. ANY DAMAGE TO THE PLASTIC SHEETING SHALL BE REPAIRED OR SHEETING BE REPLACED BEFORE THE NEXT USE.



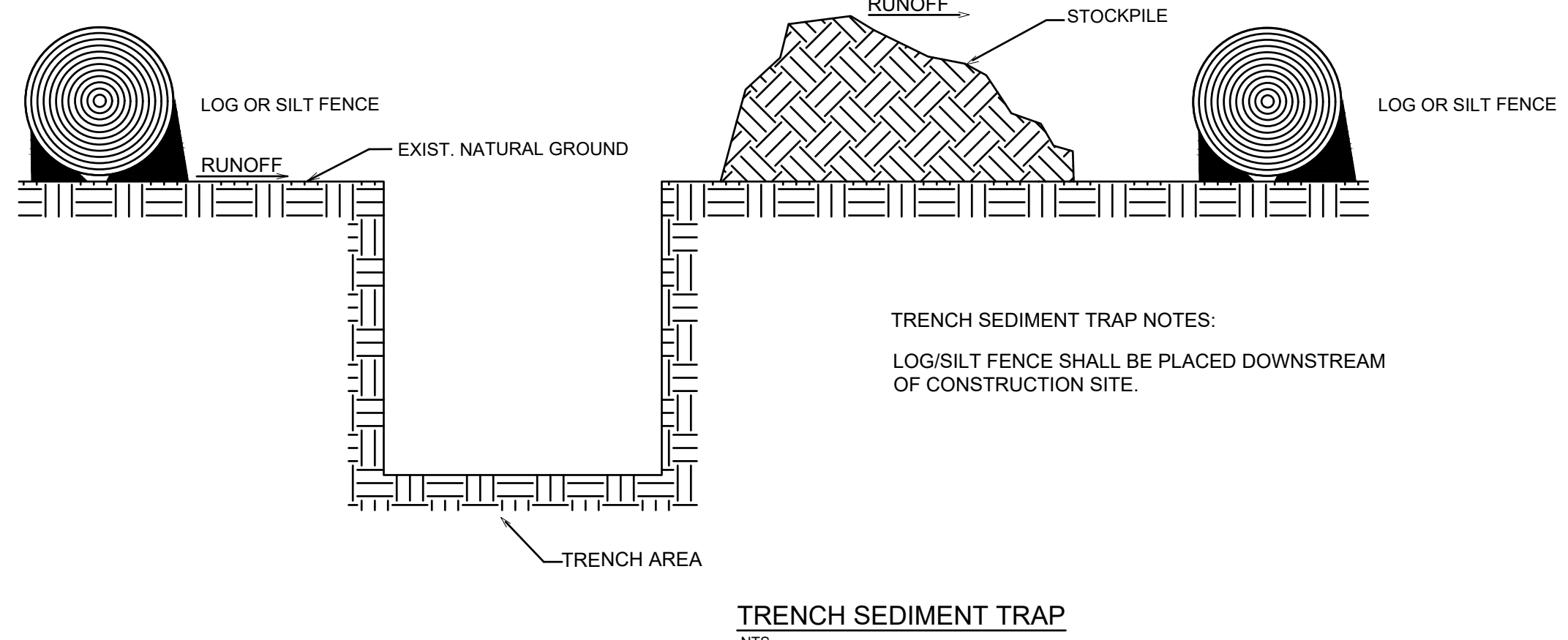
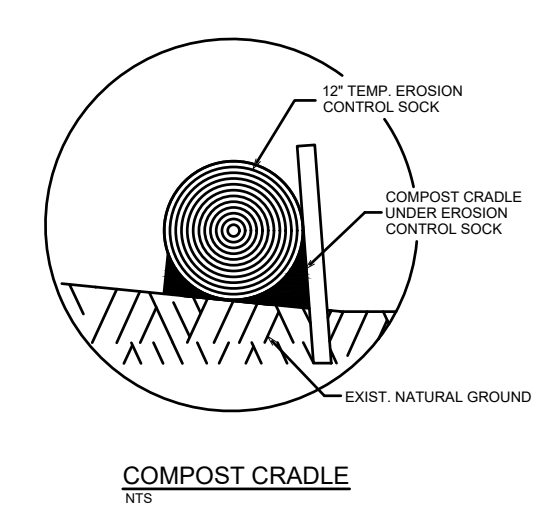
SILT FENCE NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18\"/>

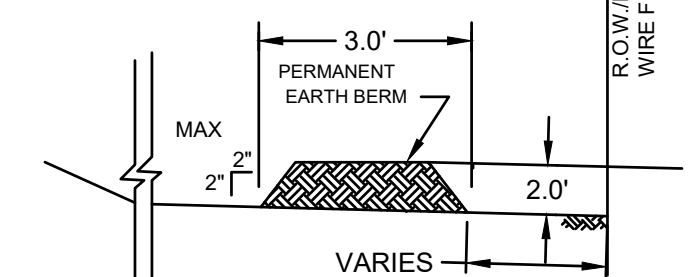


GENERAL NOTES:

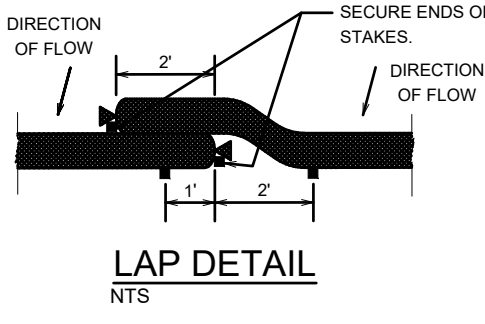
1. LENGTHS OF EROSION CONTROL SOCKS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF SOCKS SHALL BE 30' FOR 12\"/>



TRENCH SEDIMENT TRAP NOTES:
LOG/SILT FENCE SHALL BE PLACED DOWNSTREAM OF CONSTRUCTION SITE.



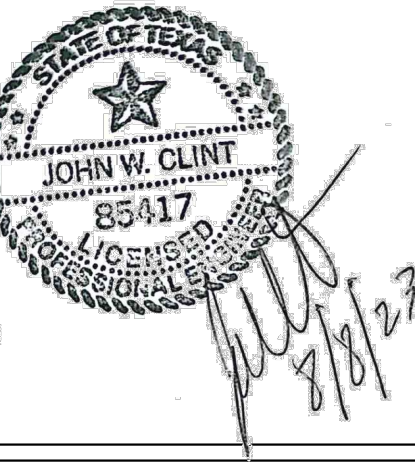
1. CONTRACTOR WILL CLEAN UP IMMEDIATELY ANY MATERIAL TRACKED ON TO PUBLIC STREETS AS A RESULT OF CONSTRUCTION.
2. BERM TO BE KEPT PERMANENTLY.



**BROWNSVILLE P.U.B.
NORTH REGIONAL FORCE MAIN
PHASE 1
BROWNSVILLE, TEXAS**



REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 47277.001
ISSUED: 2/20/2026
DRAWN BY: MH/ENH
CHECKED BY: JWC
SCALE: AS NOTED
SHEET TITLE:

EROSION CONTROL DETAILS

