



Goodwyn Mills Cawood
11 N. Water St., Suite 19290
Mobile, Alabama 36602
T 251.460.4006

TRANSMITTAL COVER SHEET

DATE: May 12, 2026
TO: ALL CONTRACTORS
FROM: DENISE KING
**PROJECT: USDA FORCE MAIN UPGRADES
CITY OF ROBERTSDALE
GMC PROJECT NO. CMOB210098(3)**
RE: ADDENDUM #1

PLEASE COMPLETE BELOW AND RETURN IMMEDIATELY.

Ashley Nobles
Email: ashley.nobles@gmcnetwork.com

I, the undersigned, hereby acknowledge receipt of this Addendum.

Authorized Representative of Contractor

Date

Company Name

Telephone

Contractor's License Number (if applicable)



ADDENDUM NUMBER 1

USDA FORCE MAIN UPGRADES

FOR

CITY OF ROBERTSDALE

GMC PROJECT NO. CMOB210098(3)

1. Revisions to Project Manual

1.1 The following revisions are hereby added as Addendum No. 1 to the referenced Project Manual and Plans and shall be considered when preparing bids.

2. Attachments

2.1 Revised Plan Set. This set replaces the original plan set distributed.

3. Acknowledgement of Receipt

3.1 Receipt of Addendum No. 1 shall be acknowledged in two ways:

3.1.1 Note on (EJCDC C-410) page 3 of Bid Form – Bidder acknowledges receipt of “Addendum No. 1” and date of “May 12, 2026”.

AND

3.1.2 EMAIL the signed transmittal sheet to ashley.nobles@gmcnetwork.com to confirm the addendum has been received and is legible.

4. Conclusion

4.1 This is the end of Addendum Number 1, dated Tuesday, May 12, 2026.

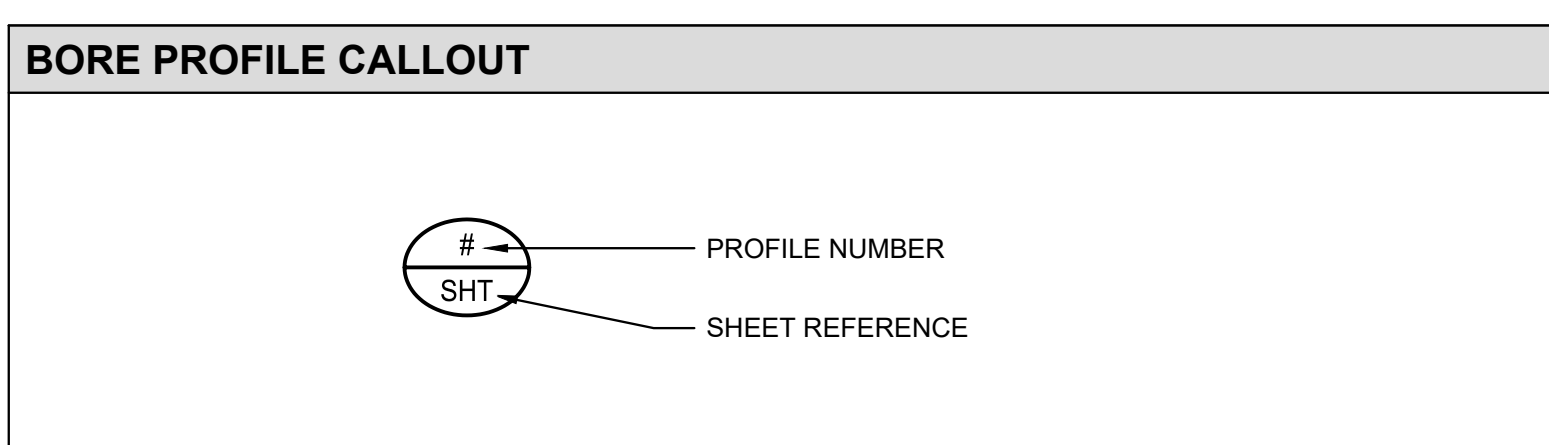
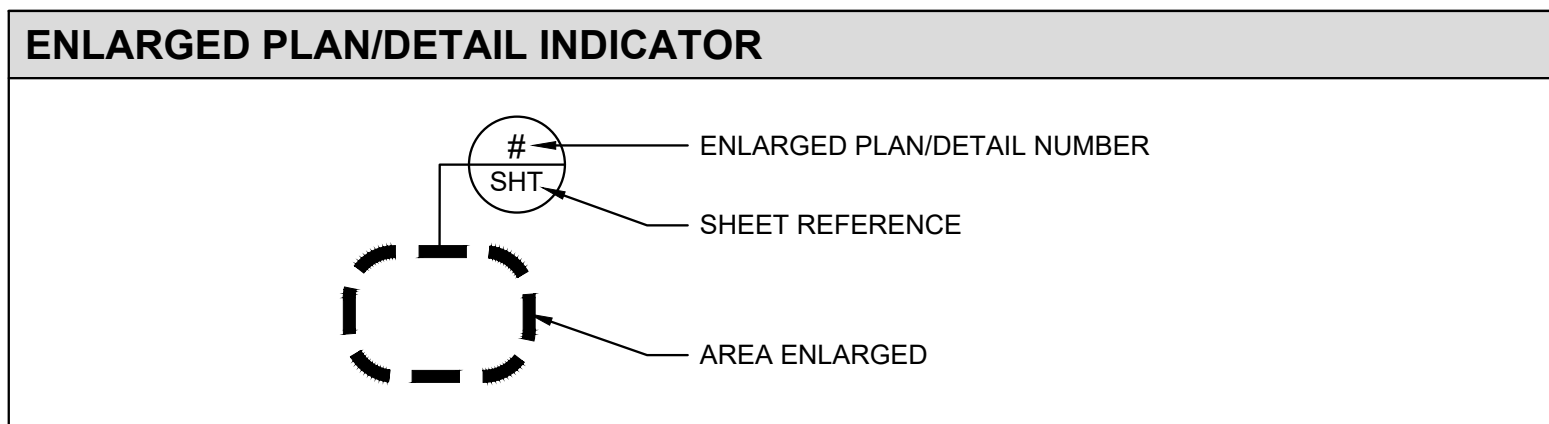
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PROJECT CONTACTS	
GOODWYN MILLS CAWOOD, LLC. DENISE KING, PE, PROJECT MANAGER MATT WALKER, PE, PROJECT ENGINEER PHONE: (251) 460-4006	SOUTHERN LIGHT PHONE: (251) 622-1170
CITY OF ROBERTSDALE EVAN DAVIS, PE PHONE: (251) 947-8955	BRIGHTSPEED PHONE: (855) 947-1999
RIVIERA UTILITIES LEON BARBER PHONE: (251) 504 - 6493	
BALDWIN COUNTY EMC KEN PIMPERL PHONE: (251) 989-6247 OR (800) 837-3374	
MCI TELECOMMUNICATIONS PHONE: (251) 432-7866	
NOTE: THIS LIST IS NOT ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES FOR LINE LOCATIONS/INFORMATION.	

ABBREVIATIONS			
CL	CENTERLINE	PP	POWER POLE
CLR	CLEAR	PRV	PRESSURE REDUCING VALVE
CMP	CORRUGATED METAL PIPE	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CPP	CORRUGATED PLASTIC PIPE	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	RACP	REINFORCED CONCRETE ARCH PIPE
DIA	DIAMTER	REQ'D	REQUIRED
DI	DUCTILE IRON	RJ	RESTRAINED JOINT
EA	EACH	SHT	SHEET
EL	ELEVATIONS	SPECS	SPECIFICATIONS
EX.	EXISTING	STD	STANDARD
GV	GATE VALVE	SF	SQUARE FOOT
LF	LINEAR FEET	SY	SQUARE YARD
MAX	MAXIMUM	TYP	TYPICAL
MIN.	MINIMUM	W/	WITH
MISC	MISCELLANEOUS	W/O	WITHOUT
MJ	MECHANICAL JOINT	WM	WATER METER
N.T.S.	NOT TO SCALE	WV	WATER VAVLE

REQUIRED UTILITY LEGEND	
REQUIRED AIR RELEASE VALVE	
REQUIRED BENDS	
REQUIRED BORE CROSSING	
REQUIRED FORCE MAIN	
REQUIRED GATE/PLUG VALVE	
REQUIRED REDUCER	
REQUIRED SILT FENCE	
REQUIRED WATTLE DITCH CHECK	

HATCHING LEGEND	
EXISTING ASPHALT PAVEMENT	
EXISTING GRAVEL DRIVEWAY/ROADWAY	
EXISTING CONCRETE PAVEMENT	
REQUIRED ASPHALT PATCH	
REQUIRED CONCRETE	



EXISTING UTILITY LEGEND	
EXISTING AIR RELEASE VALVE	
EXISTING BENDS	
EXISTING CABLE: OVERHEAD	
EXISTING CONCRETE MONUMENT	
EXISTING CREEK OR DITCH	
EXISTING CULVERT	
EXISTING EASEMENT	
EXISTING ELECTRIC MANHOLE	
EXISTING ELECTRICAL: BURIED	
EXISTING ELECTRICAL: OVERHEAD	
EXISTING FENCE: BARB WIRE	
EXISTING FENCE: CHAIN LINK	
EXISTING FENCE: WOOD	
EXISTING FIBER OPTIC: BURIED	
EXISTING FIBER OPTIC MARKER	
EXISTING FIRE HYDRANT ASSEMBLY	
EXISTING FLUSH HYDRANT	
EXISTING GAS MARKER	
EXISTING GAS METER	
EXISTING GAS VALVE	
EXISTING GRATE INLET	
EXISTING GUY WIRE	
EXISTING IRON PIN	
EXISTING LIGHT POLE	
EXISTING NAIL SET	
EXISTING POWER BOX	
EXISTING POWER POLE	
EXISTING PROPERTY LINE	
EXISTING RAILROAD TRACKS	
EXISTING REDUCER	
EXISTING R.O.W.	
EXISTING SANITARY SEWER CLEAN OUT	
EXISTING SANITARY SEWER FORCE MAIN	
EXISTING SANITARY SEWER MANHOLE	
EXISTING SANITARY SEWER LINE	
EXISTING SANITARY SEWER VALVE	
EXISTING SIGN	
EXISTING TELEPHONE: BURIED	
EXISTING TELEPHONE MANHOLE	
EXISTING TELEPHONE PEDESTAL	
EXISTING TELEPHONE POLE	
EXISTING TRANSFORMER	
EXISTING TREE	
EXISTING TREE/VEGETATION LINE	
EXISTING WATER MAIN (SIZE INDICATED)	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING WELL	



ISSUE DATE	04.03.2026
BID SET	
11 North Water Street, Suite 19290	
Mobile, AL 36602	
T 251.460.4006	
GMCNETWORK.COM	
DRAWN BY:	CC
CHECKED BY:	DK/MW

USDA FORCE MAIN
UPGRADES
ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)



PLAN LEGENDS & ABBREVIATIONS

G-002

GENERAL NOTES:

- THE OWNER SHALL REQUIRE SEVEN (7) WORKING DAYS OF NOTIFICATION PRIOR TO BEGINNING WORK.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION. IF PROJECT NECESSITATES LANE CLOSURE, IT MUST BE COORDINATED WITH BALDWIN COUNTY OFFICIALS.
- ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR HIGH-PRESSURE GAS MAINS AND OTHER UTILITIES.
- ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR AFTER ACCEPTANCE BY THE OWNER
- SAFETY PRECAUTIONS INSTITUTED ALONG ALABAMA DEPARTMENT OF TRANSPORTATION, BALDWIN COUNTY, AND CITY OF ROBERTSDALE RIGHT-OF-WAYS SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING DEPARTMENT AT ALL TIMES.
- CONTRACTOR SHALL MINIMIZE THE DISTURBANCE TO ANY EXISTING LANDSCAPING AND TREES, UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR TO PUBLIC ROADS CAUSED BY CONSTRUCTION ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET WITH STATE, CITY AND COUNTY OFFICIALS TO AGREE UPON AND RECORD THE CONDITIONS OF THE ROADS BEFORE CONSTRUCTION COMMENCES.
- ANY LANDSCAPING (SHRUBS, FLOWERS, ORNAMENTAL GRASS, ETC.) DISTURBED DURING PROJECT CONSTRUCTION ACTIVITIES SHALL BE REPLACED AND OR TRANSPLANTED TO THE SATISFACTION OF THE OWNER TO PRE-CONSTRUCTION CONDITION. THIS MAY INCLUDE SOD REPLACEMENT AS DEEMED NECESSARY BY THE OWNER. ALL RELATED COSTS FOR SUCH WORK SHALL BE INCLUDED IN THE BID PRICE.
- SITE SECURITY AND EQUIPMENT STORAGE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROPERTY INFORMATION SHOWN FOR GENERAL INFORMATION ONLY AND MAY NOT BE THE MOST RECENT OWNERSHIP ON RECORD.
- THE CONTRACTOR SHALL MEET WITH RESPECTIVE UTILITY COMPANIES TO COORDINATE WORK IN AREAS WHERE THE PROPOSED UTILITY CROSSES OTHER MAINS. EXTRA DEPTH MAY BE REQUIRED IN THESE LOCATIONS. THE COST FOR THE EXTRA DEPTH IN THESE AREAS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXTRA DEPTH.
- THIS PROJECT IS BASED ON A UNIT PRICE CONTRACT. ALL WORK DESCRIBED, SHOWN, REFERENCED, OR OTHERWISE INDICATED IN OR ON THE DRAWINGS, PROPOSAL, ADVERTISEMENT AND SPECIFICATIONS ARE TO BE COMPLETED IN-PLACE AND SERVICEABLE ACCORDING TO THE PLANS, INSTRUCTIONS, SPECIFICATIONS, LINES AND GRADES INDICATED ON THE PLANS AND ALL APPLICABLE STATE, FEDERAL, AND MUNICIPAL CODES AND STANDARDS. INDIVIDUAL ITEMS OF WORK THAT ARE NECESSARY TO COMPLETE THE PROJECT TO THE LINES AND GRADES, WHETHER SHOWN OR DESCRIBED IN THE PLANS AND SPECIFICATIONS, ARE TO BE CONSIDERED INCIDENTAL AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- INCLUDED IN THE PRICE OF THE MAIN INSTALLATION SHALL BE ALL COSTS ASSOCIATED WITH DEWATERING THE TRENCH, AS NEEDED DURING CONSTRUCTION FOR THE ENTIRE PROJECT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR DEWATERING.
- THE CONTRACTOR IS EXPECTED TO CAREFULLY EXAMINE THE PLANS, PROPOSAL AND SITE OF THE WORK. THEREFORE, IT WILL BE ASSUMED THAT THE BIDDER HAS SATISFIED HIMSELF AS TO THE CONDITIONS TO BE ENCOUNTERED IN REGARDS TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND CONTRACT. THE SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.
- ALL GRAVEL AND DIRT DRIVEWAYS TO BE OPEN CUT SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION. COMPACT TRENCH WELL TO PREVENT SETTLING.
- ALL TRENCHES SHALL BE BACKFILLED, GRASSED AND MULCHED AT THE END OF EACH DAY'S WORK.
- ALL DISTURBED AREAS WILL BE RESODDED OR SEEDED AS DIRECTED BY THE ENGINEER.
- ABSOLUTELY NO BORE PITS SHALL BE ALLOWED TO BE UNFILLED AND/OR UNCOVERED OVERNIGHT UNLESS PROTECTED. (BORE PITS HAVE A MINIMUM OF 72 HOURS TO BE OPENED BEFORE FILLED.)
- WARNING: DO NOT DISTURB SURVEY MARKERS LOCATED ON THE RIGHT-OF-WAY. ANY PROPERTY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY AN ALABAMA LICENSED PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- AS REQUIRED BY ALABAMA ACT 94-487, CALL TWO WORKING DAYS BEFORE EXCAVATION 1-800-292-8525, ALABAMA LINE LOCATION CENTER, INC.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THIS PROJECT, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SHORING OF EXISTING POWER/UTILITY POLES WITH THE APPROPRIATE UTILITY COMPANY. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS BID ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ORNAMENTAL VEGETATIVE LANDSCAPING (SHRUBS, FLOWERS, ORNAMENTAL GRASS, ETC.) DISTURBED DURING CONSTRUCTION AND SHALL BE REPLACED, TRANSPLANTED OR RESODDED AS DIRECTED BY THE ENGINEER.
- ALL FILL MATERIAL OR ONSITE DEBRIS DEPOSITED IN THE RIGHT-OF-WAY SHALL BE REMOVED
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SOLID WASTE (I.E. WOOD, STUMPS, ETC.) TO BE DISPOSED OF AND MUST BE IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM).
- PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS HISTORICAL STRUCTURES, TREES, DRAINS, WATER OR GAS PIPES, POLES, WALLS ETC., ARE NOT TO BE DISTURBED UNLESS NOTED AND APPROVED BY SHPO, ALDOT, ADEM, EPA, ETC.
- CLEAN UP STREETS IMMEDIATELY AFTER CONCRETE OR OTHER DELIVERY TRUCKS LEAVE THE SITE. MUD AND DEBRIS ARE TO BE KEPT OFF CITY STREETS, INLETS, DITCHES, ETC.
- FUEL TANKS SHALL NOT BE STORED ON THE RIGHT-OF-WAY OVER NIGHT. VEHICLES TRANSPORTING FUEL, CHEMICALS, FERTILIZERS, ETC. ONTO RIGHT-OF-WAY SHALL NOT BE LEFT UNATTENDED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND RESET FENCING TO ORIGINAL CONDITION WHERE REQUIRED AT NO ADDITIONAL COST.
- PROMPTLY NOTIFY THE ENGINEER OF ANY PERCEIVED CONFLICTS, AMBIGUOUS ITEMS OR DEFICIENCIES IN THE PLANS, SPECIFICATIONS, GENERAL NOTES OR RELATED CONTRACT DOCUMENTS.

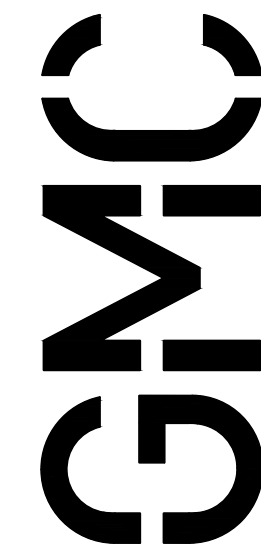
BEST MANAGEMENT PRACTICES NOTES:

- CONTRACTOR SHALL ADHERE TO ALL PERMIT REQUIREMENTS, AS WELL AS THE "CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN." A BEST MANAGEMENT PLAN SHALL AT MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION WITH A GOOD STAND OF GRASS OR SOD. SILT FENCE, HAY BALES, AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION.
- ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL AT THE SITE OF 0.75 INCHES OR GREATER. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE. THE CONTRACTOR SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS ON SITE AT ALL TIMES, AND RECORDS SHALL BE SUBJECT TO INSPECTION AT ANY REASONABLE TIME.
- THE CONTRACTOR SHALL FREQUENTLY REMOVE ANY AND ALL SILT/SEDEMENTATION FROM THE SILT FENCE, DITCHES, CHECK DAMS AND RETENTION AREAS. AT THE END OF CONSTRUCTION THESE AREAS SHALL BE COMPLETELY FREE OF SILT/SEDEMENTATION AND SHALL BE STABILIZED AS STATED IN THE PLANS AND SPECIFICATIONS.
- THE USE OF FLOC-BLOCKS, POLYACRYLAMIDE (PAM) OR OTHER SUITABLE SETTLING ENHANCEMENT MATERIALS MAY BE REQUIRED BY THE ENGINEER, QCP, ADEM, AND/OR LOCAL AUTHORITIES DURING THE COURSE OF CONSTRUCTION TO MINIMIZE THE TURBIDITY AND PREVENT SEDIMENT RELEASE FROM THE SITE. THE COST ASSOCIATED WITH THESE ADDITIONAL FLOC-BLOCKS, POLYACRYLAMIDE (PAM) SHALL BE INCLUDED IN THE CONTRACTOR'S BID, NO ADDITIONAL COMPENSATION WILL BE GIVEN TO THE CONTRACTOR FOR THIS WORK.
- ALL BMPS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LOCAL STANDARDS FOR EROSION CONTROL AND THE PLANS AND SPECIFICATIONS. IF CONFLICTS ARISE BETWEEN THESE REQUIREMENTS, THE MORE STRONG SHALL APPLY.
- CONTRACTOR IS RESPONSIBLE FOR WHATEVER MEASURES ARE NECESSARY TO PRODUCE AND MAINTAIN AN ACCEPTABLE STAND OF GRASS. SAID MEASURES TO INCLUDE, BUT NOT LIMITED TO, WATERING, RE-SODDING, RE-SEEDING, RE-GRADING ERODED AREAS, RE-FERTILIZING, ETC.
- ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT, INCLUDING BUT NOT LIMITED TO, PAINT, OIL, GREASE AND OTHER PETROLEUM PRODUCTS SHALL BE STORED IN ACCORDANCE WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY TRASH OR OTHER POLLUTANTS FROM ENTERING STORM DRAINS.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF PUBLIC STREETS AND ROW. CLEANUP IS REQUIRED DAILY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY MEASURES ONCE ACCEPTABLE PERMANENT STABILIZATION IS ACHIEVED. THE OWNER AND ENGINEER SHALL DETERMINE IF THE PERMANENT STABILIZATION IS ACCEPTABLE.
- COMBINATIONS OF SILT FENCING AND WATTLES SHALL BE USED AS PROJECT CONDITIONS WARRANT TO PREVENT SEDIMENT RUNOFF FROM REACHING CREEKS, STREAMS, AND OTHER SURFACE WATER ADJACENT TO AND WITHIN THE PROJECT AREA.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TEMPORARY DIVERSION OF RUNOFF WATER, AS REQUIRED TO FACILITATE CONSTRUCTION OR AS DIRECTED THE ENGINEER. THIS TEMPORARY DRAINAGE OF RUNOFF IS CONSIDERED INCIDENTAL TO THE BID.
- ANY SOLID WASTE ENCOUNTERED DURING CONSTRUCTION (I.E., WOOD, STUMPS, ETC.) MUST BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM).

SEWER NOTES

- ALL SEWER LINES SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS. NO DEVIATIONS SHALL BE MADE WITHOUT APPROVAL OF THE ENGINEER.
- ALL FLUSHING AND PRESSURE TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF ROBERTSDALE SPECIFICATIONS AND THE LATEST ADEM REGULATIONS. A CALIBRATED CHART RECORDING WILL BE REQUIRED FOR PRESSURE TESTING.
- ALL PRESSURE SEWER LINES SHALL BE INSTALLED TO A DEPTH OF COVER OF NOT LESS THAN 36 INCHES, EXCEPT WHERE DEEPER COVER IS REQUIRED BY CONFLICT WITH EXISTING UTILITIES. MINIMUM COVER OF 48 INCHES IS REQUIRED UNDER ROADWAY CROSSINGS.
- THE CONTRACTOR IS REQUIRED TO DEVELOP AN AS-BUILT SET OF DRAWINGS AS CONSTRUCTION PROGRESSES. THE COMPLETE ASBUILT PLANS SHALL CONTAIN ALL INSTALLED LINES, VALVES, METERS, STRUCTURES, AND CONNECTIONS WITH REFERENCE DISTANCES TO PERMANENT ABOVE-GROUND STRUCTURES.
- AIR RELEASE VALVE (ARV) ASSEMBLIES SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE ARV ASSEMBLIES WITH THE OWNER'S FIELD REPRESENTATIVE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL THE MINIMUM LENGTHS OF RESTRAINTS SHOWN IN THE DETAIL TABLE IN THE DRAWINGS FOR EACH DIRECTION OF FITTINGS USING THE PROPER BELL RESTRAINT. ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED. IF THE LENGTH BETWEEN FITTINGS IS LESS THAN OR EQUAL TO THE MINIMUM RESTRAINT LENGTH, THEN ALL JOINTS BETWEEN THE FITTINGS MUST BE RESTRAINED. THE COST FOR THESE RESTRAINTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS BELL RESTRAINT HARNESS BID ITEMS.
- THE OWNER WILL PROVIDE WATER FOR FLUSHING AND PRESSURE TESTING OF THE FORCE MAIN; HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR GETTING THE WATER TO THE TESTING LOCATION.
- ALL PVC SEWER FORCE MAINS SHALL BE GREEN IN COLOR, IN ACCORDANCE WITH AWWA C900, AND SHALL BE DR18 (PRESSURE CLASS 235)

DRAWING FILE: T:\Projects\AL\Robertsdale_City_of\CKOB20088 - USDA Sanitary Sewer Improvements\CKOB20088 - CG-003 PROJECT NOTES.dwg



11 North Water Street, Suite 19290

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T 251.460.4006

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ISSUE DATE	04.03.2026
BID SET	
DRAWN BY:	CC
CHECKED BY:	DK/MW

USDA FORCE MAIN
UPGRADES
ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)



4/03/2026

PROJECT NOTES

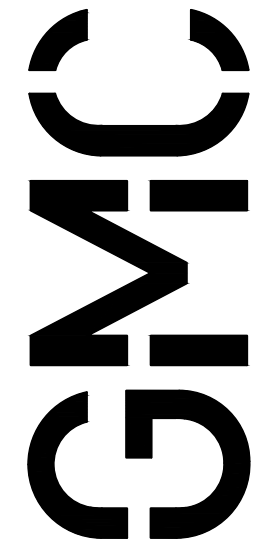
G-003

HDD NOTES

1. THE CONTRACTOR SHALL FURNISH ALL SERVICES, EQUIPMENT, MATERIALS, TOOLS AND LABOR REQUIRED FOR COMPLETE AND PROPER INSTALLATION AND TESTING OF PIPE USING HORIZONTAL DIRECTIONAL DRILLING (HDD) METHODS AT THE LOCATIONS SHOWN ON THE DRAWINGS.
2. ALL HDD ACTIVITIES SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1962 AND CHAPTER 12 OF THE PPI HANDBOOK.
3. ALL DEPTHS FOR DRILLING SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL MAINTAIN THE REQUIRED MINIMUM VERTICAL CLEARANCES AS SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL DUCTILE IRON FITTINGS AS REQUIRED TO CONNECT THE DRILLED PIPE TO THE REST OF THE PIPELINE ALIGNMENT AT THE PROPER DEPTH AT EACH END OF THE BORE.
5. THE CONTRACTOR SHALL SUBMIT A WORK PLAN TO THE ENGINEER WITHIN 2 WEEKS OF THE NOTICE TO PROCEED CONTAINING THE FOLLOWING:
 - a. A COMPLETE LIST OF CONSTRUCTION MATERIALS, EQUIPMENT AND SUPPLIES INCLUDING PIPE FITTINGS, DRILLING MUD, AND DRILLING FLUID ADDITIVES.
 - b. SPECIFICATIONS ON TYPE OF DRILLING EQUIPMENT INCLUDING DRILLING RIG, MUD SYSTEM, MUD MOTORS, DOWN-HOLE TOOLS, GUIDANCE SYSTEM, AND SAFETY SYSTEMS.
 - c. WORK PLAN CONSISTING OF A DETAILED PROCEDURE AND SCHEDULE TO BE USED, LIST OF PERSONNEL AND THEIR QUALIFICATIONS, LIST OF SUBCONTRACTORS, A SAFETY PLAN (INCLUDING MSDS OF ANY POTENTIALLY HAZARD SUBSTANCES), THE METHOD OF DRILLING FLUID DISPOSAL AND AN ENVIRONMENTAL PROTECTION PLAN.
 - d. BORE PLAN CONSISTING OF A SCALED DRAWING OF THE PILOT BORE PLAN FOR REVIEW. SHOW FINISHED GRADE, DEFLECTION RADII OF THE PILOT BORE, ALL EXISTING UTILITIES WITH MINIMUM VERTICAL AND HORIZONTAL CLEARANCES. ADDRESS THE LOCATION OF THE DRILL RIG SETUPS, THE LENGTHS OF EACH BORE BASED ON SOIL CONDITIONS, EQUIPMENT USED, TOPOGRAPHY, ETC. THE PROPOSED VERTICAL AND HORIZONTAL CLEARANCES BETWEEN THE BORED PIPE AND ANY EXISTING/ PROPOSED CONFLICTING PIPES, CONDUITS OR OBSTRUCTIONS SHALL BE AT LEAST TWO TIMES THE GUIDANCE SYSTEM ACCURACY TOLERANCE.
 - e. SUBMIT SUPPORTING CALCULATIONS, CERTIFICATIONS OR MATERIALS DEMONSTRATING THE STRENGTH OF THE PRODUCT PIPES ARE ABLE TO WITHSTAND THE DESIGN AND CONSTRUCTION STRESSES AND PRESSURES.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING FIVE DAYS PRIOR TO THE COMMENCEMENT OF DRILLING ACTIVITIES AND 24 HOURS PRIOR TO THE START OF DRILLING INCLUDING PILOT HOLE DRILLING, PRE-REAMING OR HOLE ENLARGEMENT, BACK PULLING, AND TESTING ACTIVITIES.
7. THE CONTRACTOR SHALL SECURE INFORMATION CONCERNING THE LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IN PROXIMITY TO THE PIPELINE ALIGNMENT, PRIOR TO THE START OF DRILLING AND CONFIRM THE ALIGNMENT OF ALL CRITICAL UTILITIES, USING VACUUM EXCAVATION OR OTHER SUITABLE EXCAVATION METHOD, FOR FURTHER DETAILED CONFIRMATIONS AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
8. TEST DIRECTIONAL DRILLING PIPE AFTER PULLBACK IN ACCORDANCE WITH AWWA C605.
9. IF, AS A RESULT OF THE HYDROSTATIC TEST, THE ENGINEER DETERMINES THAT THE PIPE IS NOT ACCEPTABLE, THE DRILLER WILL ABANDON THE LINE IN PLACE BY INSTALLING A CAP ON BOTH ENDS OF THE CARRIER PIPE AND FILLING THE FLOWABLE GROUT, AND REPLACE THE LINE AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL CONTAIN AND CONVEY ALL USED DRILLING FLUID AND DRILLING FLUID SPILLED DURING OPERATIONS TO THE DRILLING FLUID RECYCLING SYSTEM OR REMOVE BY VACUUM TRUCKS OR OTHER METHODS ACCEPTABLE TO THE OWNER.
11. TAKE ALL NECESSARY MEASURES TO ELIMINATE THE DISCHARGE OF WATER, DRILLING MUD, AND CUTTINGS TO NEARBY WATERWAYS DURING THE MUD WORK.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE CAUSED BY HEAVING, SETTLEMENT, SEPARATION OF PAVEMENT, OR ESCAPE OF DRILLING FLUID FROM THE HDD OPERATION.
13. AT THE COMPLETION OF THE HDD, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS TO THE ENGINEER NOTING ALL DEVIATIONS FROM THE PLANS THAT RESULT IN A CHANGE OF LOCATION, MATERIAL, TYPE OR SIZE OF WORK.
14. UPON ACCEPTANCE OF THE PIPE INSTALLATION, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, MATERIALS AND SUPPLIES FOR THE SITE, FILL IN ALL HOLES OR EXCAVATIONS WITH EXCAVATED MATERIAL FREE FROM DEBRIS AND ORGANIC MATTER, GRADE THE SITE TO PRE-CONSTRUCTION ELEVATIONS, AND RESTORE SURFACES TO EQUAL TO OR BETTER THAN THE CONDITION PRIOR TO START OF WORK.

FRAC-OUT CONTINGENCY PLAN NOTES

1. PRIOR TO BEGINNING AND DRILLING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A FRAC-OUT CONTINGENCY PLAN TO THE ENGINEER FOR REVIEW & APPROVAL. THE PLAN SHALL INCLUDE A DETAILED DESCRIPTION OF ALL EQUIPMENT, MEASURES, RESPONSE METHODS, ETC. THAT WILL BE USED BY THE CONTRACTOR TO MANAGE FRAC-OUTS THAT MAY OCCUR DURING DRILLING OPERATIONS.
2. DIRECTIONAL DRILLING ACTIVITIES UTILIZE A BENTONITE CLAY AND WATER SLURRY FOR LUBRICATION OF THE DRILL PATH, AND THE SIGNIFICANT HYDRAULIC PRESSURES THAT ARE REQUIRED PRODUCE THE POTENTIAL FOR THE SLURRY TO "FRAC-OUT" TO THE GROUND SURFACE OR AN ENVIRONMENTALLY SENSITIVE WATERWAY. THEREFORE, IN ANTICIPATION OF DIRECTIONAL DRILLING ACTIVITIES FOR THIS PROJECT, THE FOLLOWING PLAN SHALL BE IMPLEMENTED BY THE CONTRACTOR.
3. ALL PERSONNEL ON SITE DURING DIRECTIONAL DRILLING OPERATIONS SHALL BE TRAINED TO DETECT AND RESPOND TO A FRAC-OUT CONDITION, AND ALL NECESSARY DRILLING EQUIPMENT SHALL BE INSPECTED DAILY FOR LEAKS OR DEFECTS THAT COULD RESULT IN SPILLAGE OF DRILLING MUD. THIS IS THE SITE FOREMAN'S RESPONSIBILITY. PRIOR TO THE COMMENCEMENT OF ANY DRILLING OPERATIONS, CONTAINMENT AND CLEANUP PROVISIONS (SAND BAGS, STRAW BALES, SPILL BOOMS, PORTABLE PUMPS, VAC TRUCKS, ETC.) SHALL BE ON SITE OR NEARBY, READY FOR DEPLOYMENT WITHIN 15 MINUTES. BASED ON PAST DRILLING EXPERIENCE IN SIMILAR CONDITIONS, SELECT DRILLING PRESSURES AND DEPTHS THAT MINIMIZE THE POTENTIAL FOR FRAC-OUT.
4. DURING DRILLING OPERATIONS, PERSONNEL SHALL BE ACTIVELY LOOKING FOR ANY SURFACING OF DRILLING MUD, AND THE DRILL RIG OPERATOR SHALL CONTINUOUSLY MONITOR THE DRILLING MUD PRESSURE, LOOKING FOR SUDDEN DROPS THAT COULD INDICATE A FRAC-OUT. ALL DRILLING WORK SHALL CEASE IMMEDIATELY UPON DISCOVERY OF A FRAC-OUT CONDITION, AND SYSTEM PRESSURE SHALL BE RELIEVED TO PREVENT CONTINUED SPILLAGE.
5. UPON DISCOVERY OF A FRAC-OUT, ISOLATE THE AFFECTED AREA WITH APPROPRIATE MEASURES, DEPENDING ON WHETHER THE FRAC-OUT OCCURRED ON LAND OR IN A WATERWAY. INSTALL SILT FENCE, STRAW BALES, FIBER LOGS, OR EQUIVALENT MEASURES AROUND A SPILL ON LAND TO COMPLETELY CONTAIN THE SPILL AND PREVENT ITS TRANSPORT TO WATERWAYS. FOR A FRAC-OUT IN WATER, ISOLATE THE AFFECTED AREA AS RAPIDLY AS POSSIBLE WITH SAND BAGS, SPILL BOOM, CURTAINS, OR THEIR EQUIVALENTS. UTILIZE ANIONIC POLYMERS WITHIN A CONTAINED SPILL IN WATERWAYS TO ASSIST IN FLOCCULATION AND REMOVAL. SITE FOREMAN IS TO IMMEDIATELY NOTIFY PROJECT INSPECTOR AND/OR ENGINEER WHO WILL CONTACT SYSTEM OPERATIONS TO ISSUE AN ENVIRONMENTAL ALERT.
6. FOR MINOR SPILLS THAT HAVE BEEN SUCCESSFULLY CONTAINED, THE SITE FOREMAN SHALL BE RESPONSIBLE TO DETERMINE WHETHER THE LEAK CAN BE STOPPED SUCH THAT DRILLING OPERATIONS CAN BE RESTARTED OR WHETHER THE BORE PATH OR INSTALLATION METHOD MUST BE ABANDONED FOR AN ALTERNATE.
7. COMPLETELY REMOVE THE SPILLED MATERIAL, EITHER MANUALLY OR WITH A VAC-TRUCK. AFTER DRILLING OPERATIONS HAVE BEEN COMPLETED OR ABANDONED, REMOVE ANY INSTALLED CONTAINMENT MEASURES, AND RETURN THE SITE TO ITS PRECONSTRUCTION CONTOURS AND CONDITIONS. DISPOSE OF ANY SPILLED MATERIALS AT AN APPROVED FACILITY IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.



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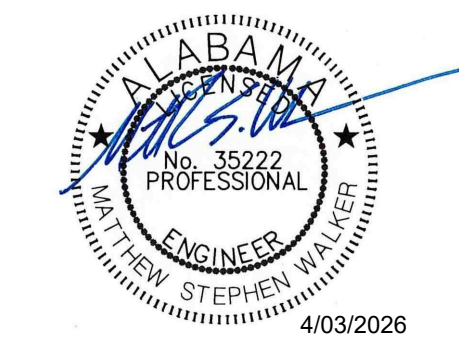
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BID SET	
DRAWN BY:	CC
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USDA FORCE MAIN UPGRADES ROBERTSDALE, ALABAMA

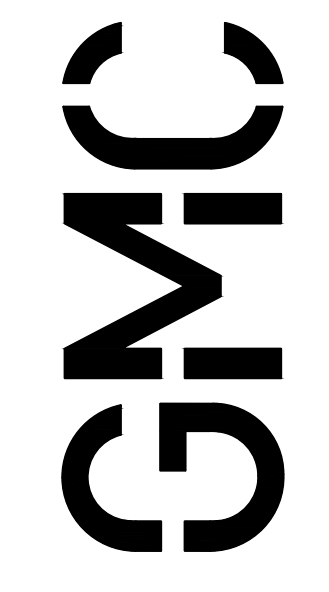
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PROJECT NTOES

G-004



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USDA FORCE MAIN
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 ROBERTSDALE, ALABAMA

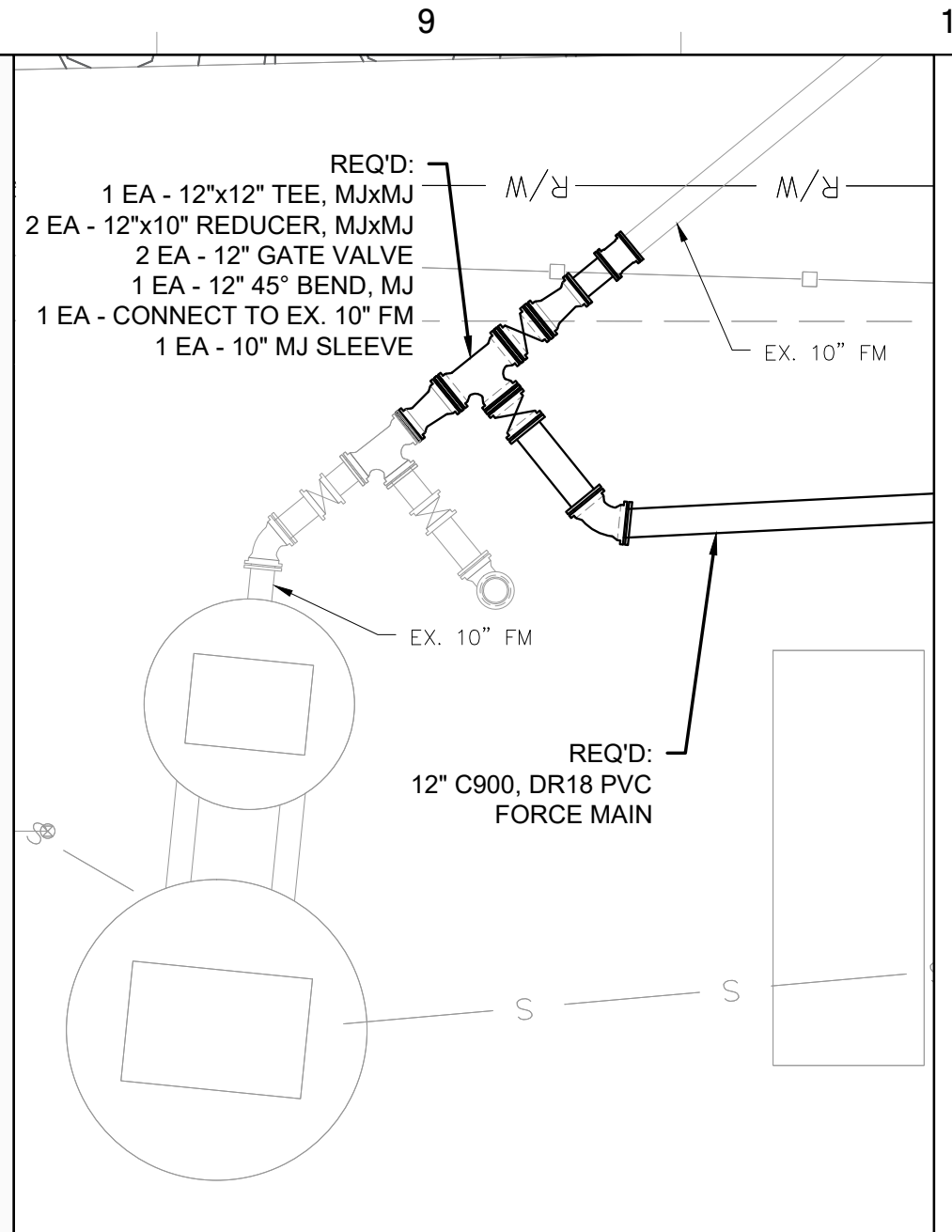
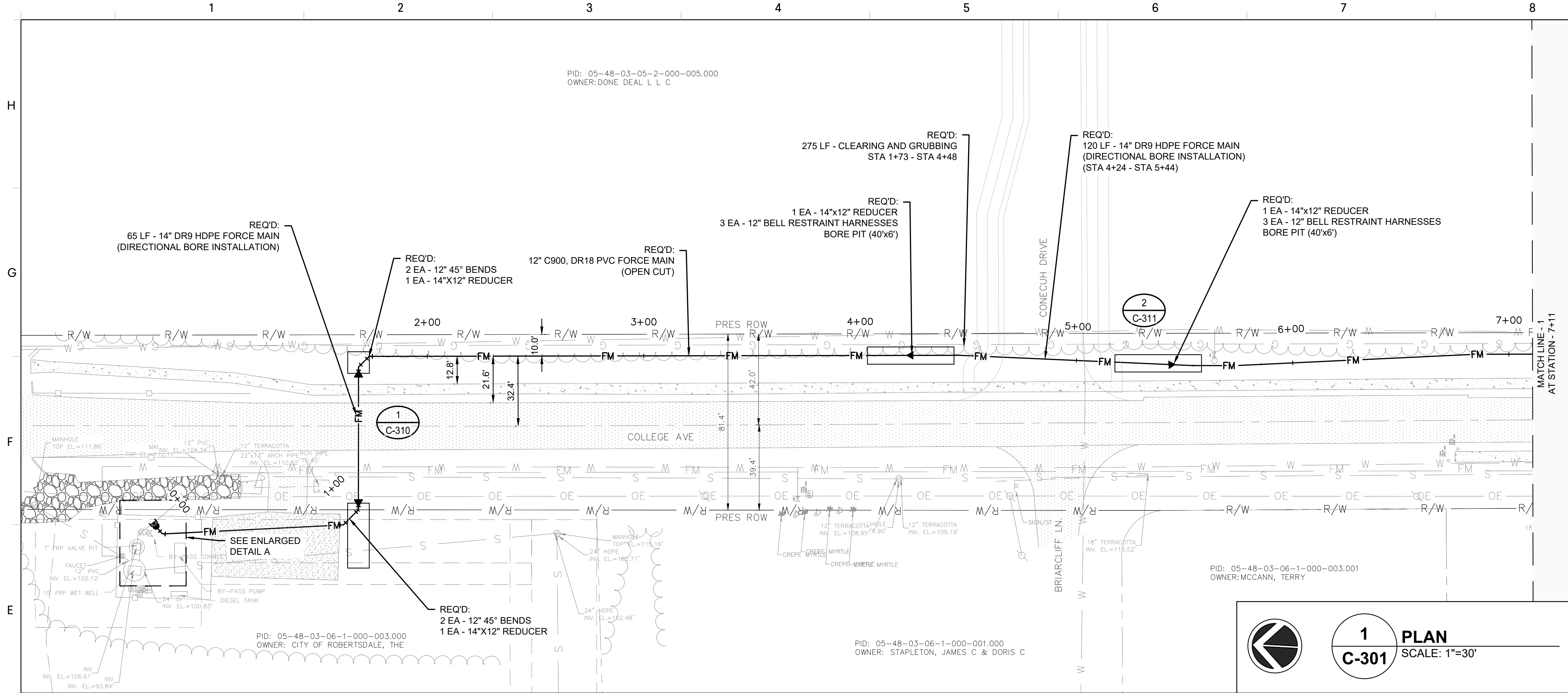
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OVERALL PROJECT PLAN

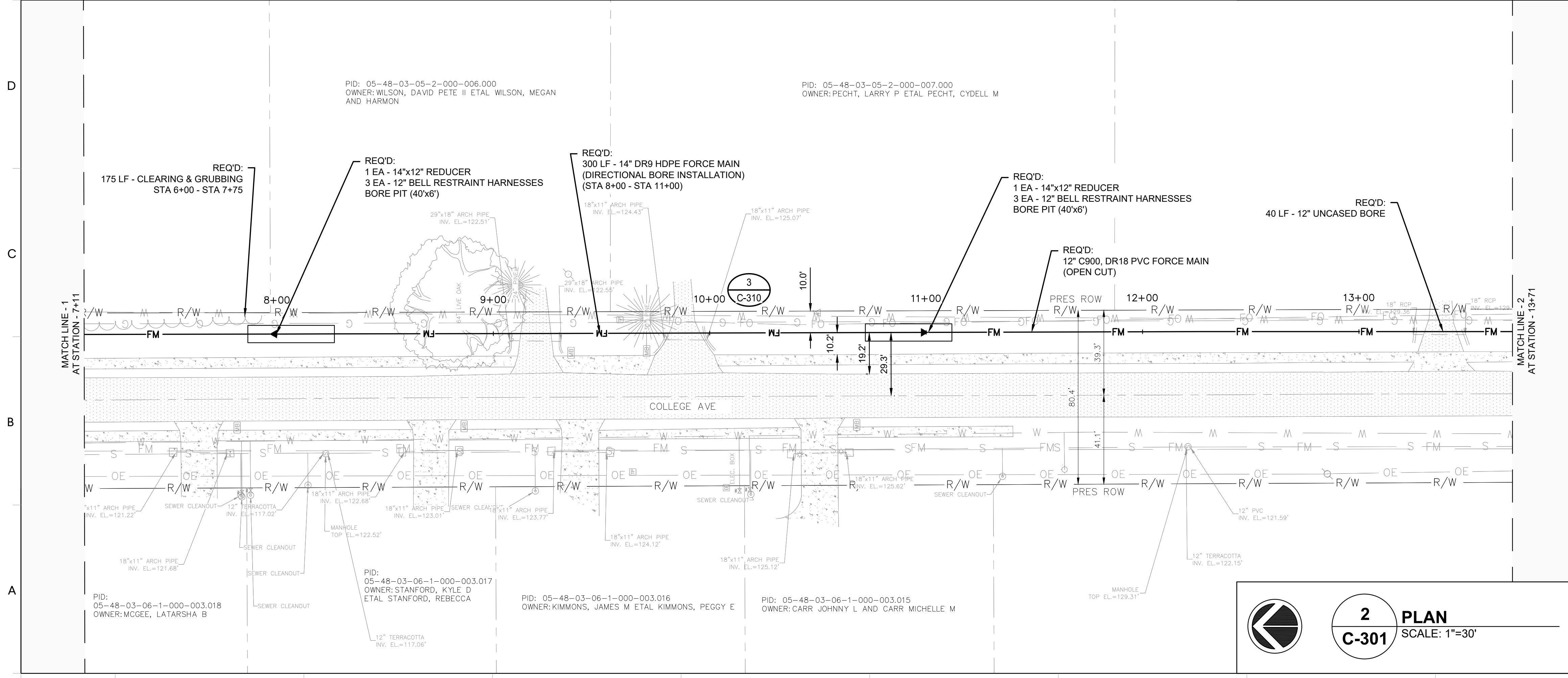
C-101

1 PLAN
 C-101 SCALE: N.T.S.



ENLARGED DETAIL A
SCALE: 1" = 6'

1 PLAN
C-301 SCALE: 1"=30'



2 PLAN
C-301 SCALE: 1"=30'

GMC

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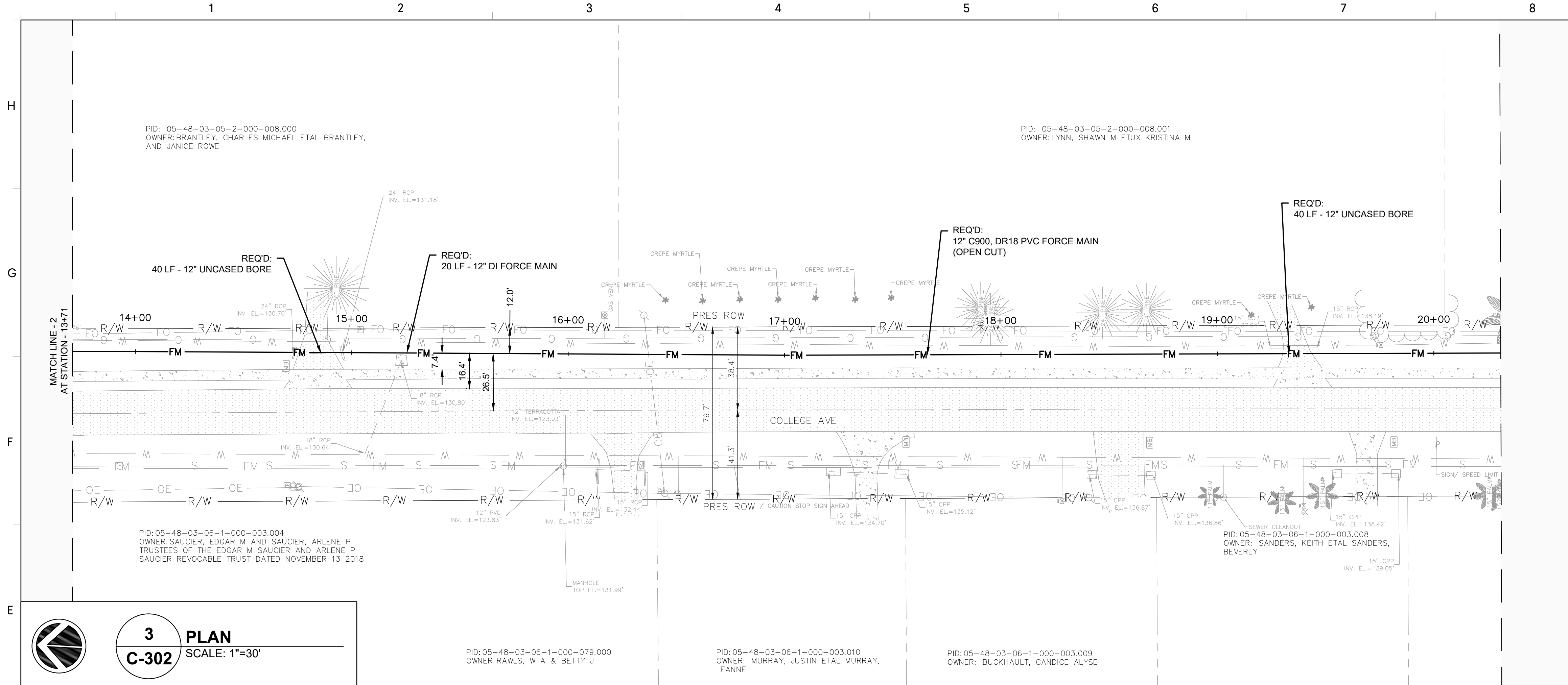
USDA FORCE MAIN UPGRADES
ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

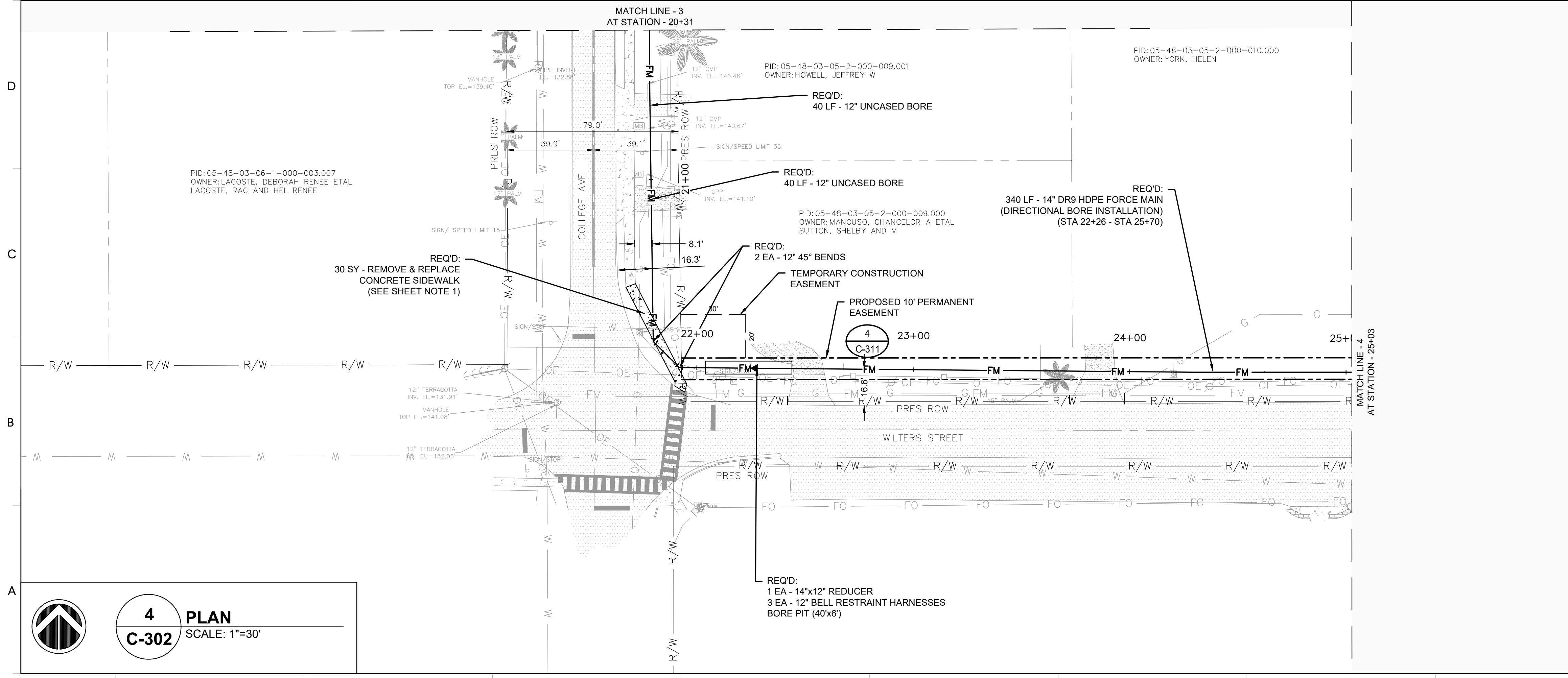
FORCE MAIN PLAN
STA 0+00 - STA 13+71

C-301

ALABAMA PROFESSIONAL ENGINEER
No. 35222
STEPHEN WALKER
4/03/2026



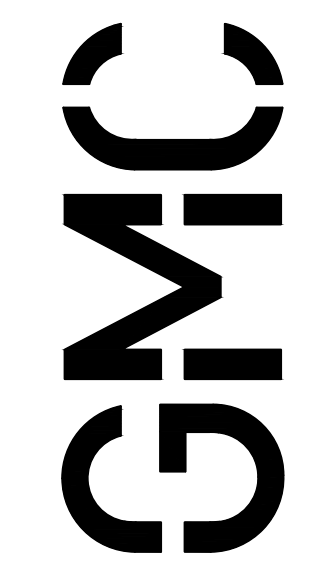
3 PLAN
C-302 SCALE: 1"=30'



4 PLAN
C-302 SCALE: 1"=30'

SHEET NOTES:

1. CONTRACTOR SHALL INSTALL NEW TRUNCATED DOME PAD AT WILTERS STREET CROSSWALK AFTER NEW SIDEWALK IS POURED.



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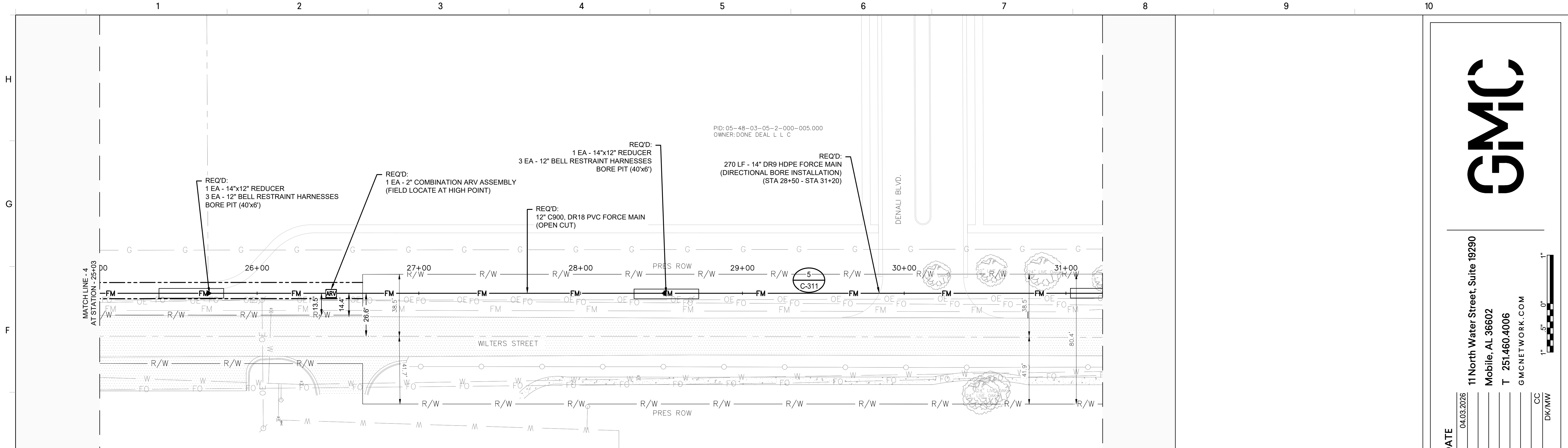
USDA FORCE MAIN
 UPGRADES
 ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

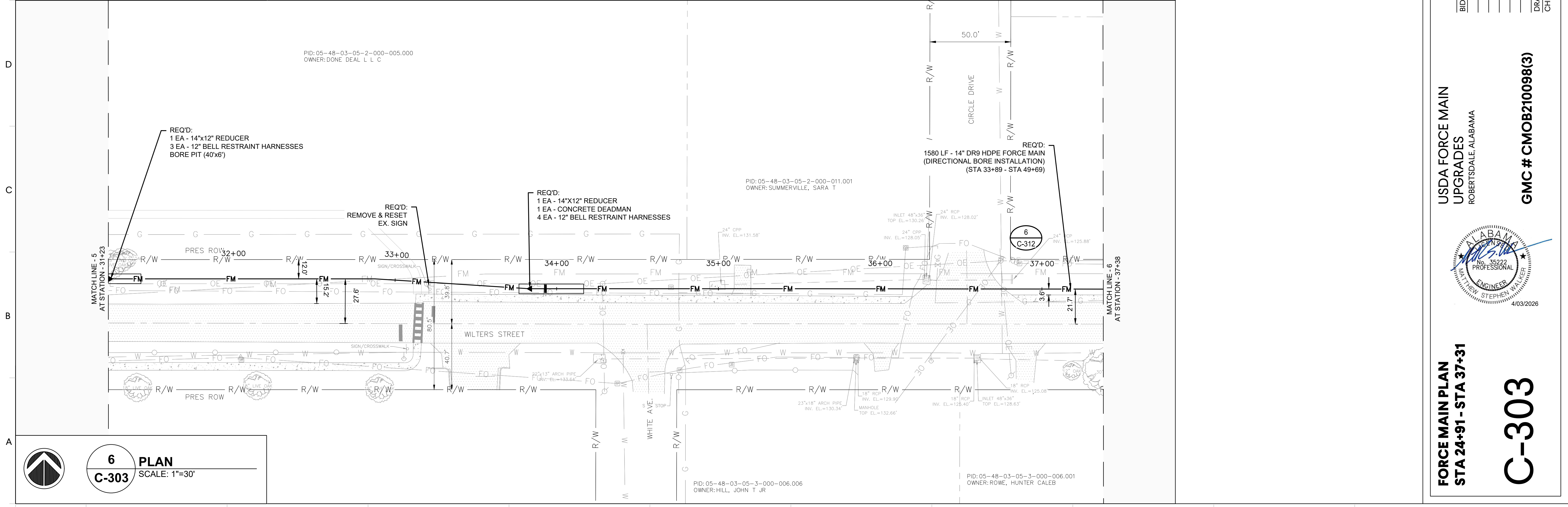


FORCE MAIN PLAN
 STA 13+71 - STA 24+91

C-302



5 PLAN
C-303 SCALE: 1"=30'



6 PLAN
C-303 SCALE: 1"=30'



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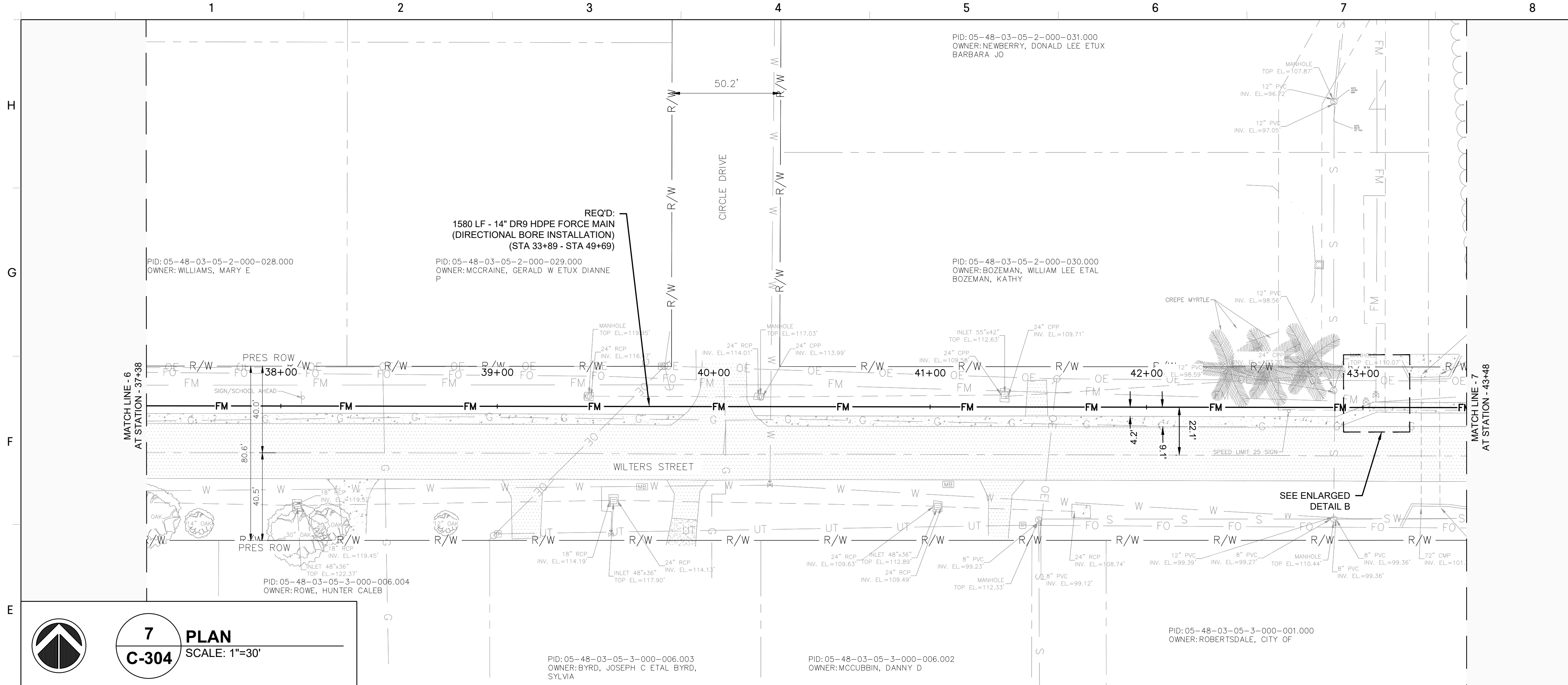
**USDA FORCE MAIN
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 ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

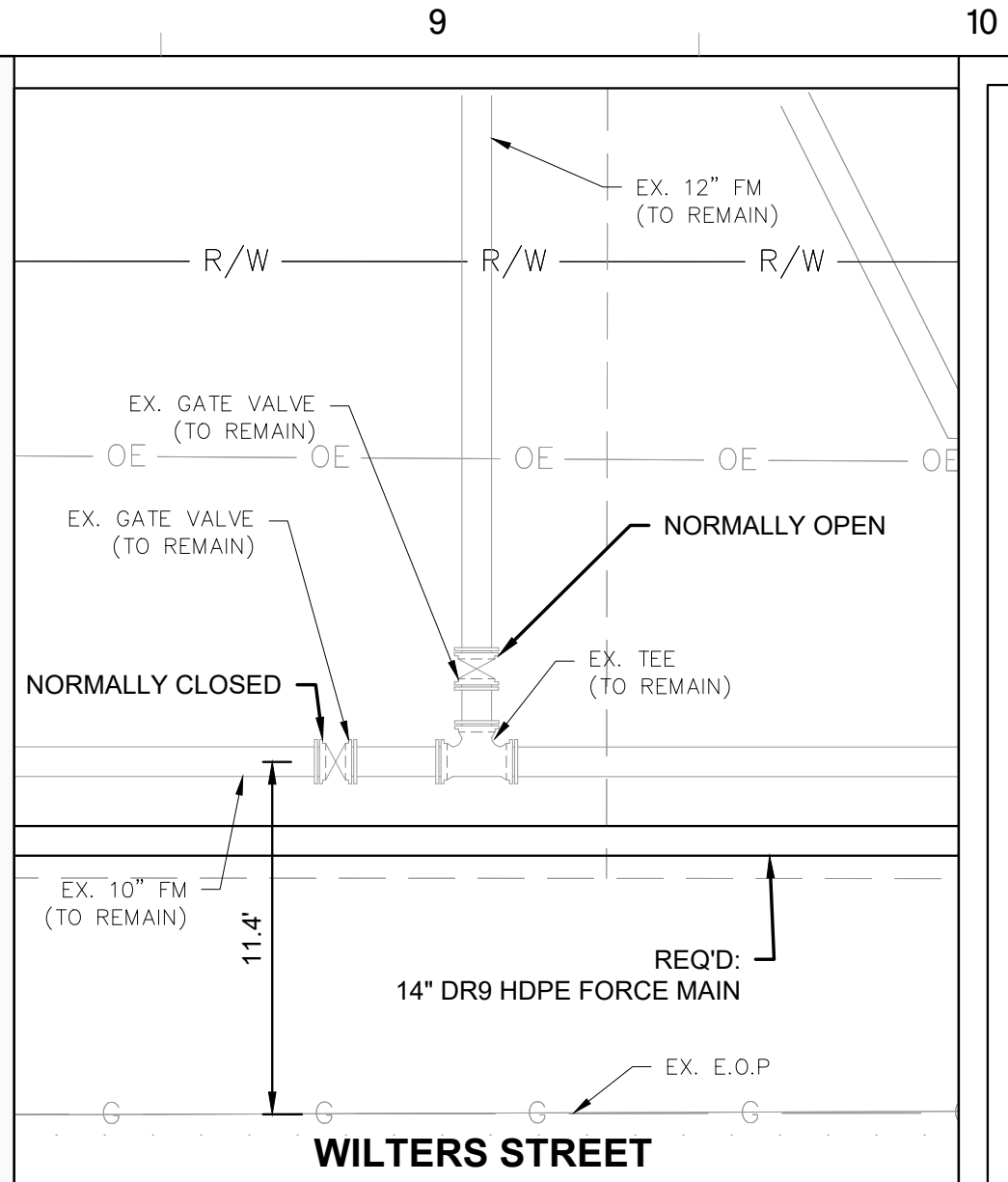


**FORCE MAIN PLAN
 STA 24+91 - STA 37+31**

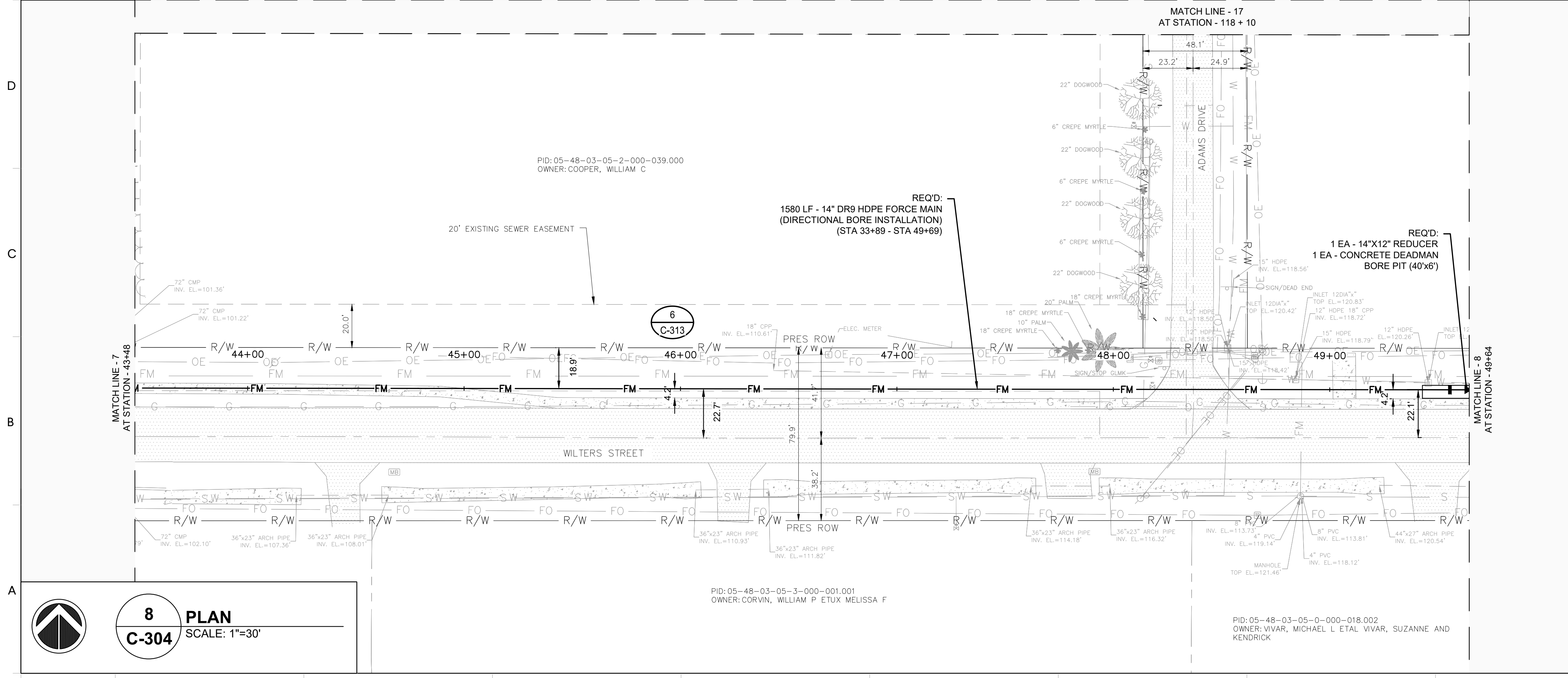
C-303



7 PLAN
C-304 SCALE: 1"=30'



ENLARGED DETAIL B
 SCALE: 1"=6'



8 PLAN
C-304 SCALE: 1"=30'

USDA FORCE MAIN UPGRADES
 ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

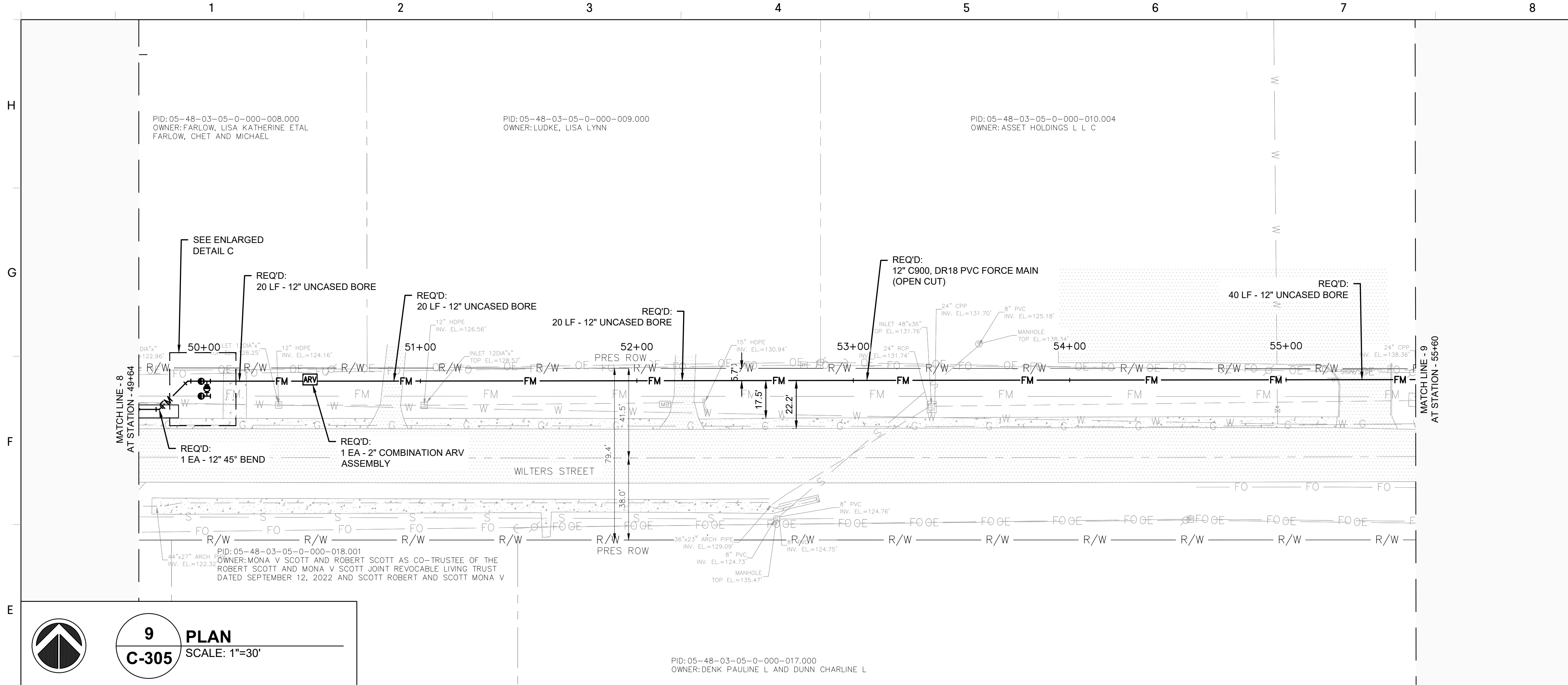
FORCE MAIN PLAN
STA 37+31 - STA 49+63

C-304

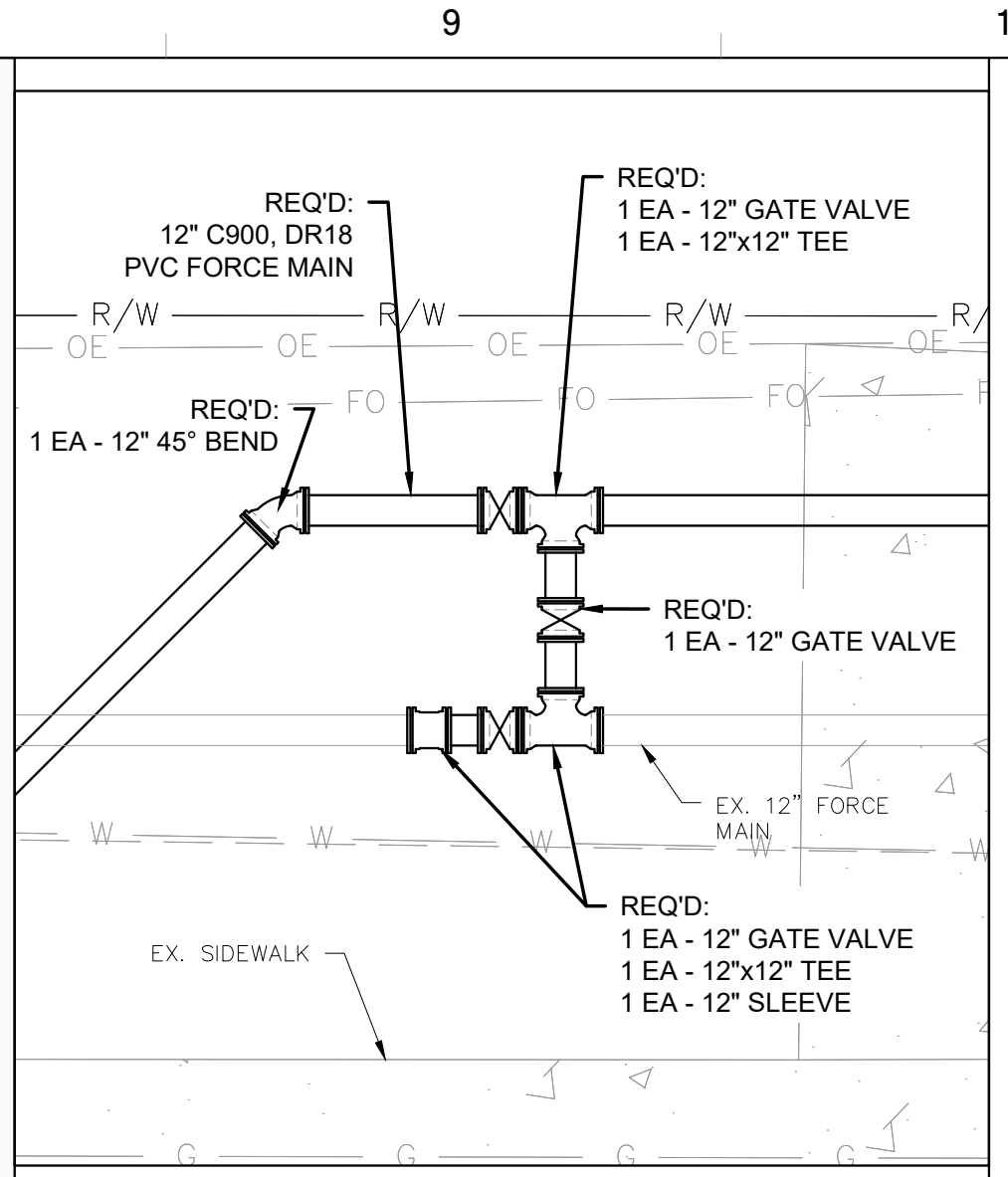
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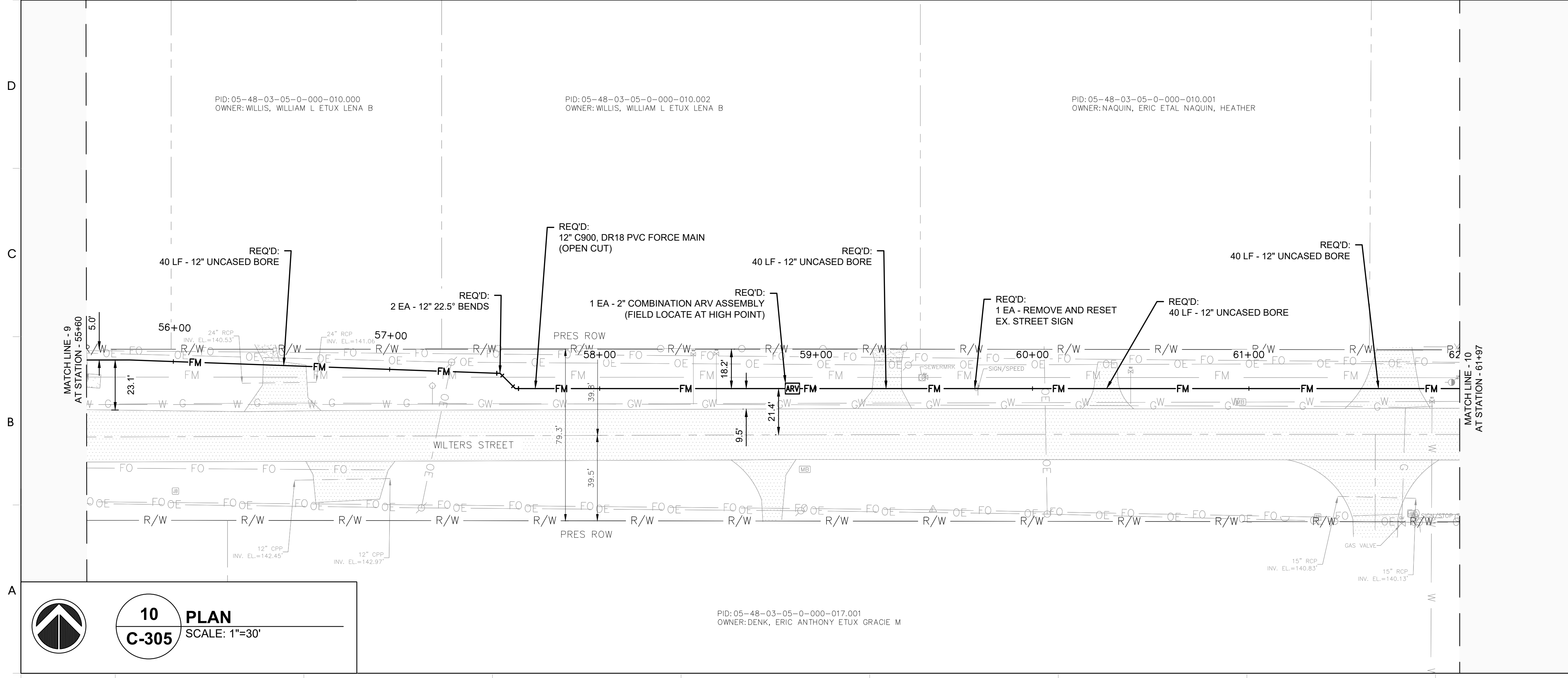
ALABAMA PROFESSIONAL ENGINEER
 No. 35222
 MATTHEW STEPHEN WALKER
 4/03/2026



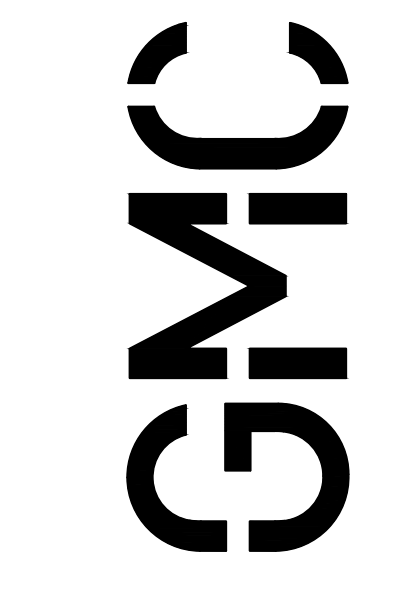
9 PLAN
C-305 SCALE: 1"=30'



ENLARGED DETAIL C
 SCALE: 1" = 6"



10 PLAN
C-305 SCALE: 1"=30'



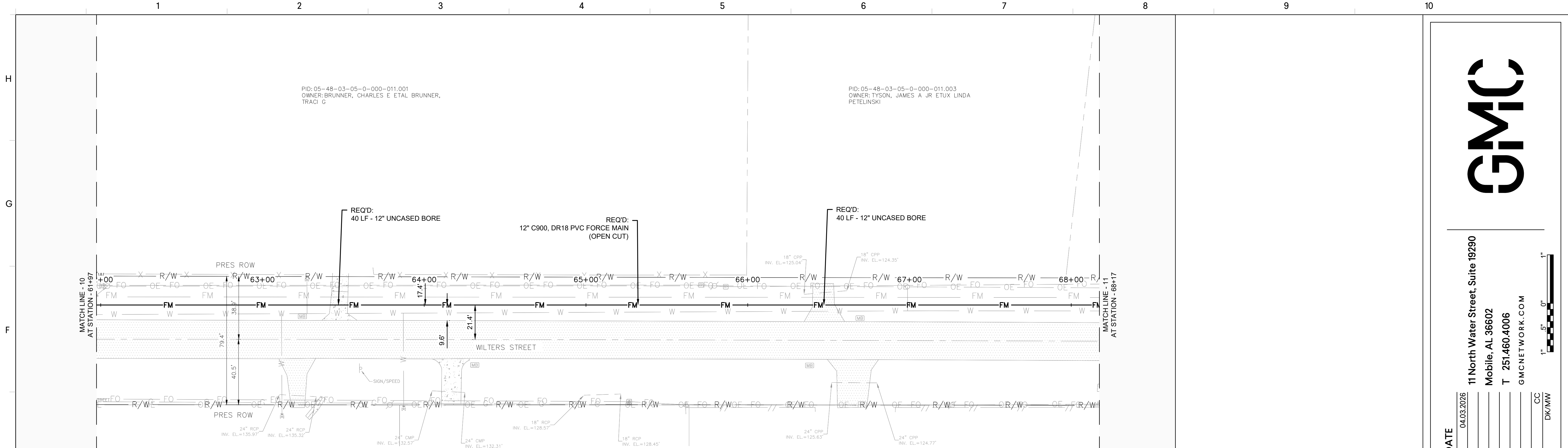
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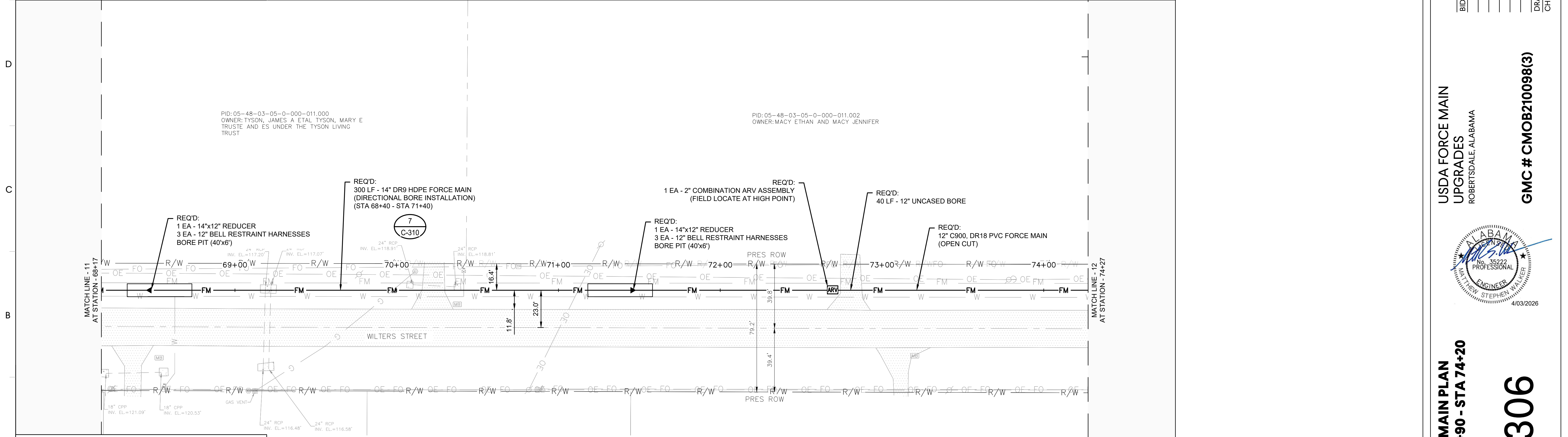
USDA FORCE MAIN
 UPGRADES
 ROBERTSDALE, ALABAMA
GMC # CMOB210098(3)



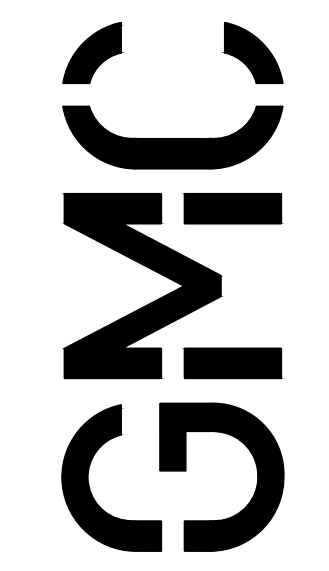
FORCE MAIN PLAN
STA 49+63 - STA 61+90
C-305



11 PLAN
C-306 SCALE: 1"=30'



12 PLAN
C-306 SCALE: 1"=30'



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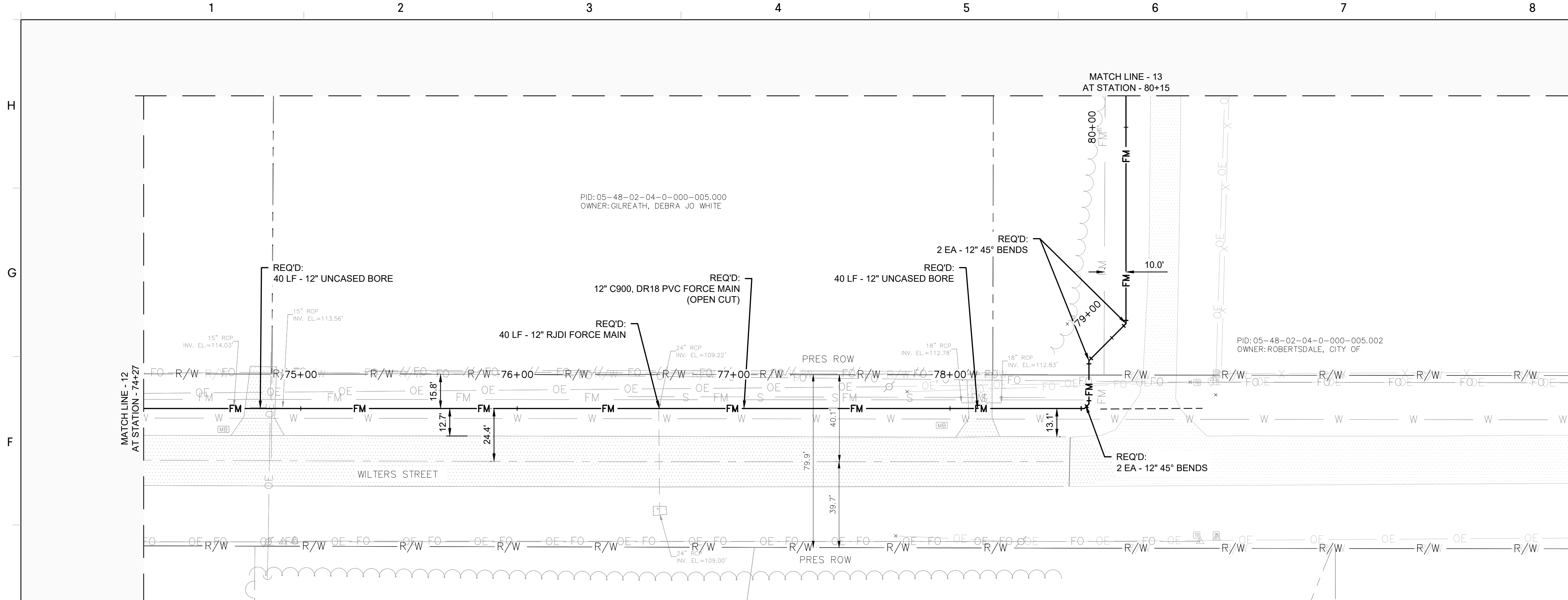
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USDA FORCE MAIN
 UPGRADES
 ROBERTSDALE, ALABAMA
GMC # CMOB210098(3)



FORCE MAIN PLAN
STA 61+90 - STA 74+20

C-306



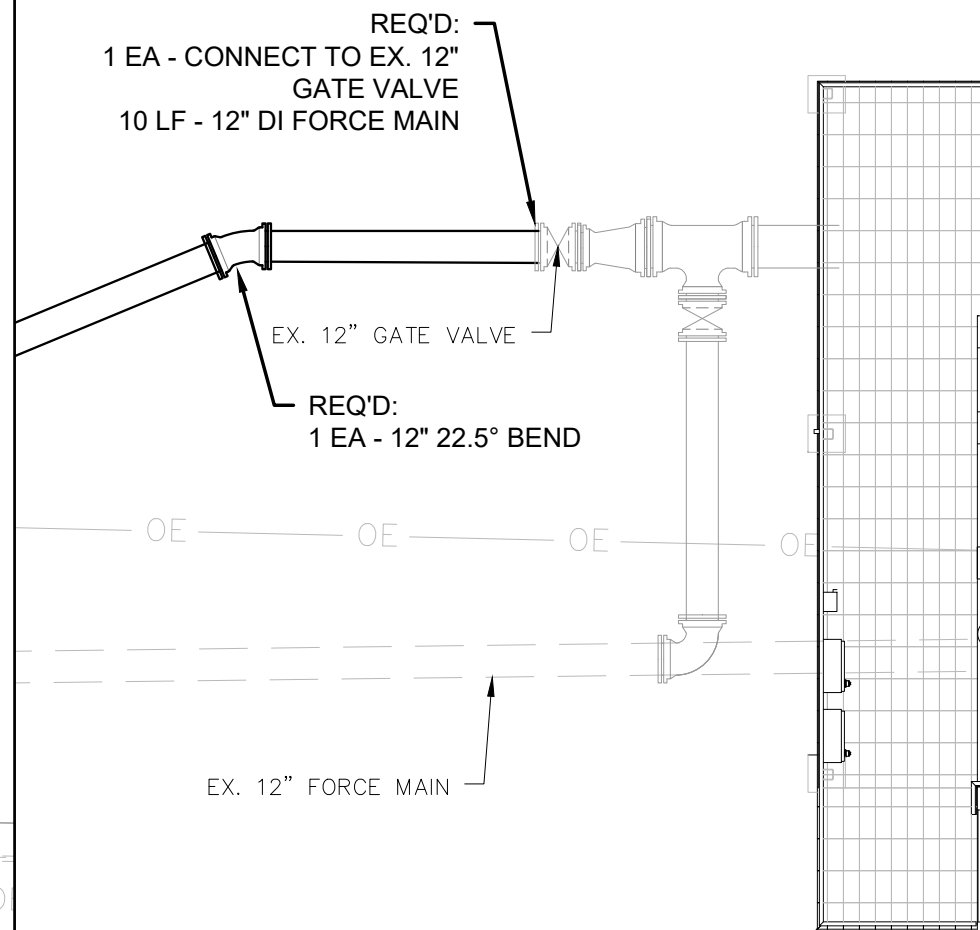
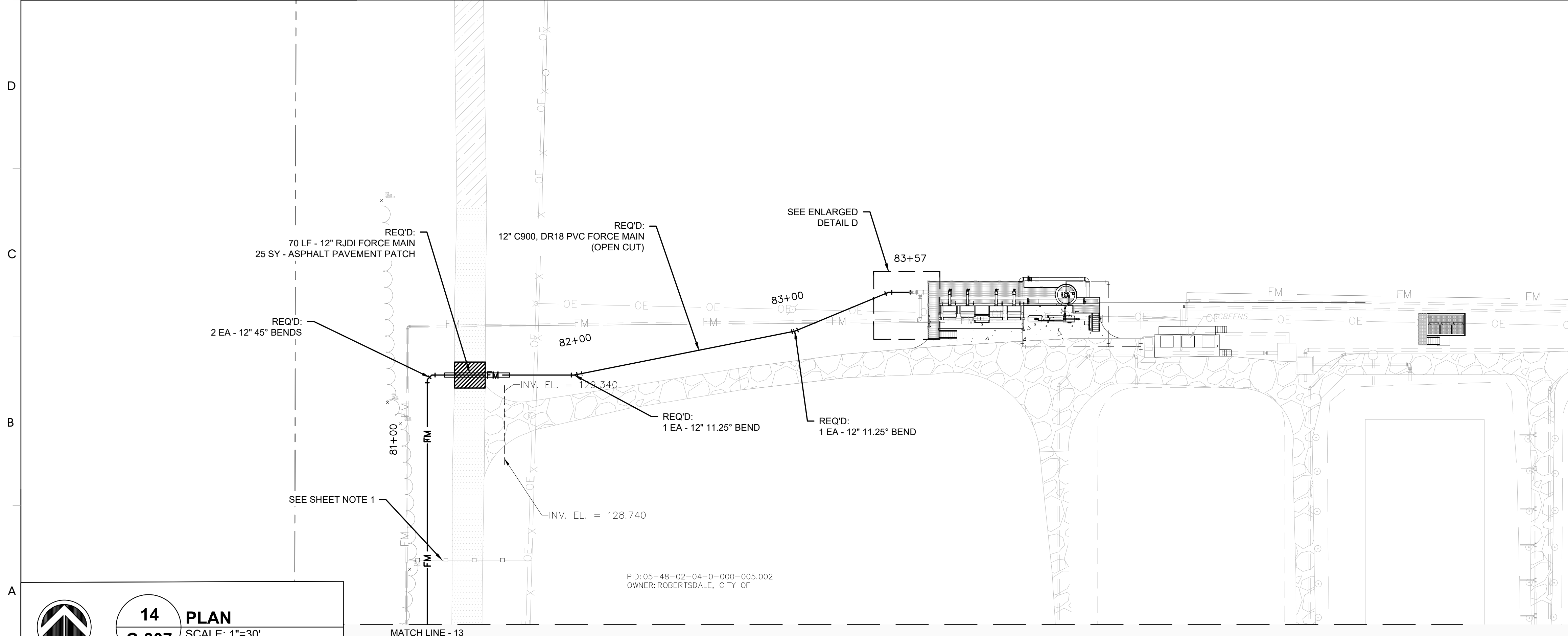
SHEET NOTES:

- INSTALL THE NEW FORCE MAIN UNDER THE EXISTING CHAIN LINK FENCE WITHOUT DISTURBING THE FENCE. ANY REQUIRED HAND DIGGING IN THIS AREA SHALL BE A SUBSIDIARY OBLIGATION OF THE FORCE MAIN PAY ITEM.

13 PLAN
C-307 SCALE: 1"=30'

PID: 05-48-02-04-0-000-011.000
 OWNER: MAGNUSEN, ROBERT H ETAL
 MAGNUSEN, ALISON AND D

PID: 05-48-02-04-0-000-012.000
 OWNER: CHANG, MICHAEL ETAL CHANG,
 LAUREN LINNE



ENLARGED DETAIL D
 SCALE: 1" = 6'

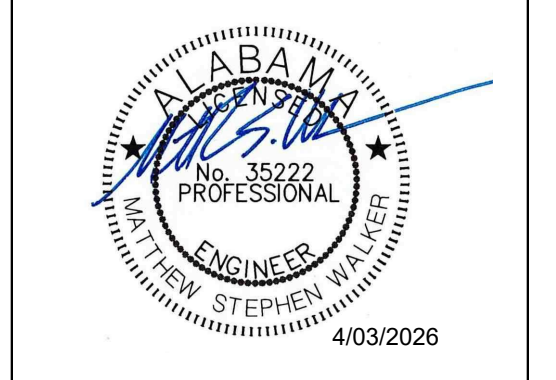
14 PLAN
C-307 SCALE: 1"=30'

PID: 05-48-02-04-0-000-005.002
 OWNER: ROBERTSDALE, CITY OF

ISSUE DATE	04.03.2026
BID SET	
DRAWN BY:	CC
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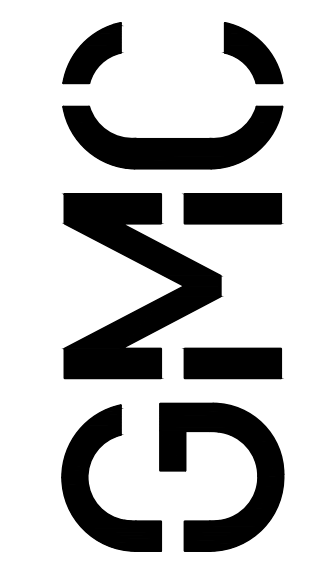
**USDA FORCE MAIN
 UPGRADES**
 ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

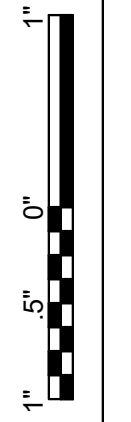


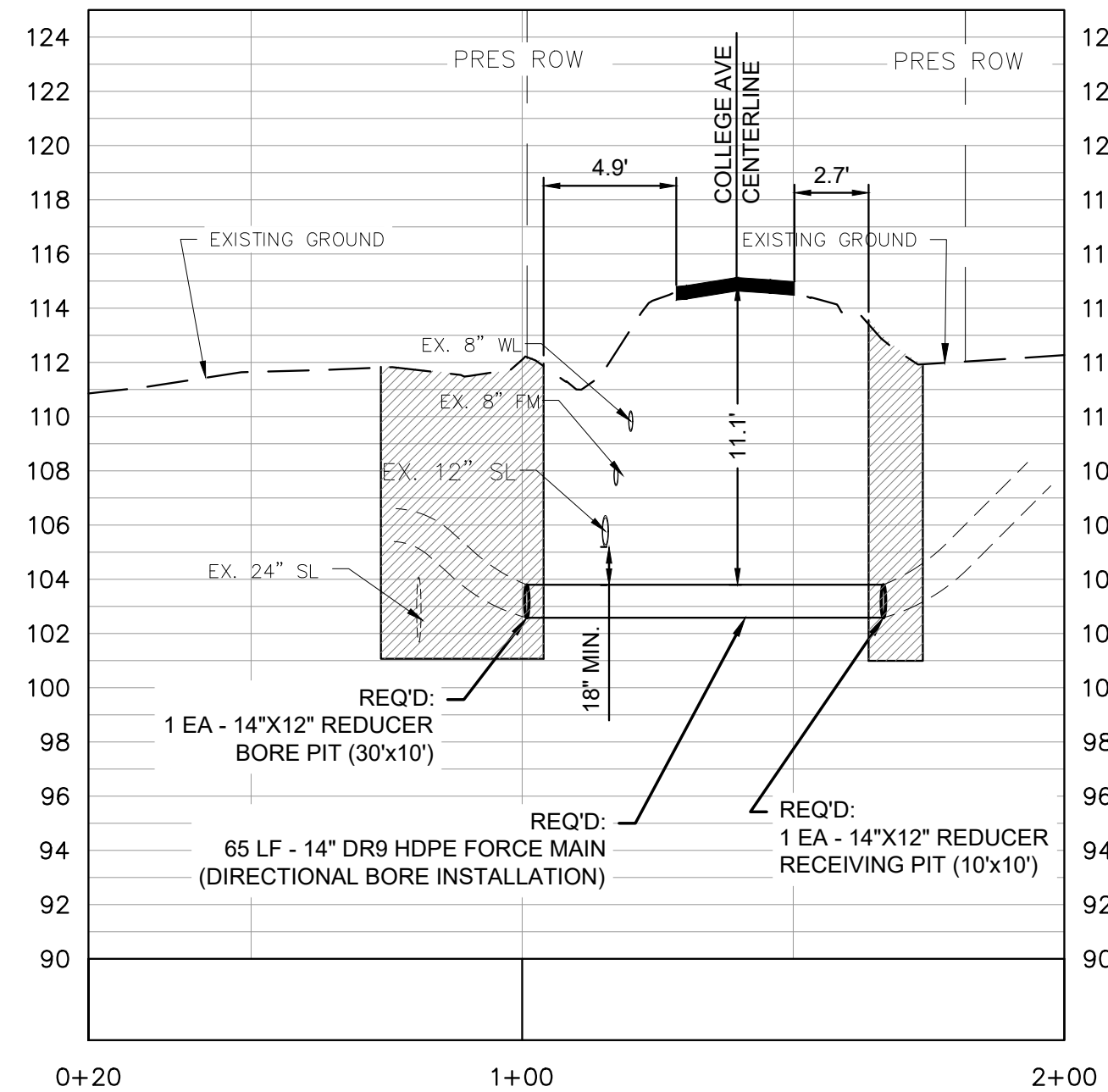
**FORCE MAIN PLAN
 STA 74+20 - STA 83+55**

C-307



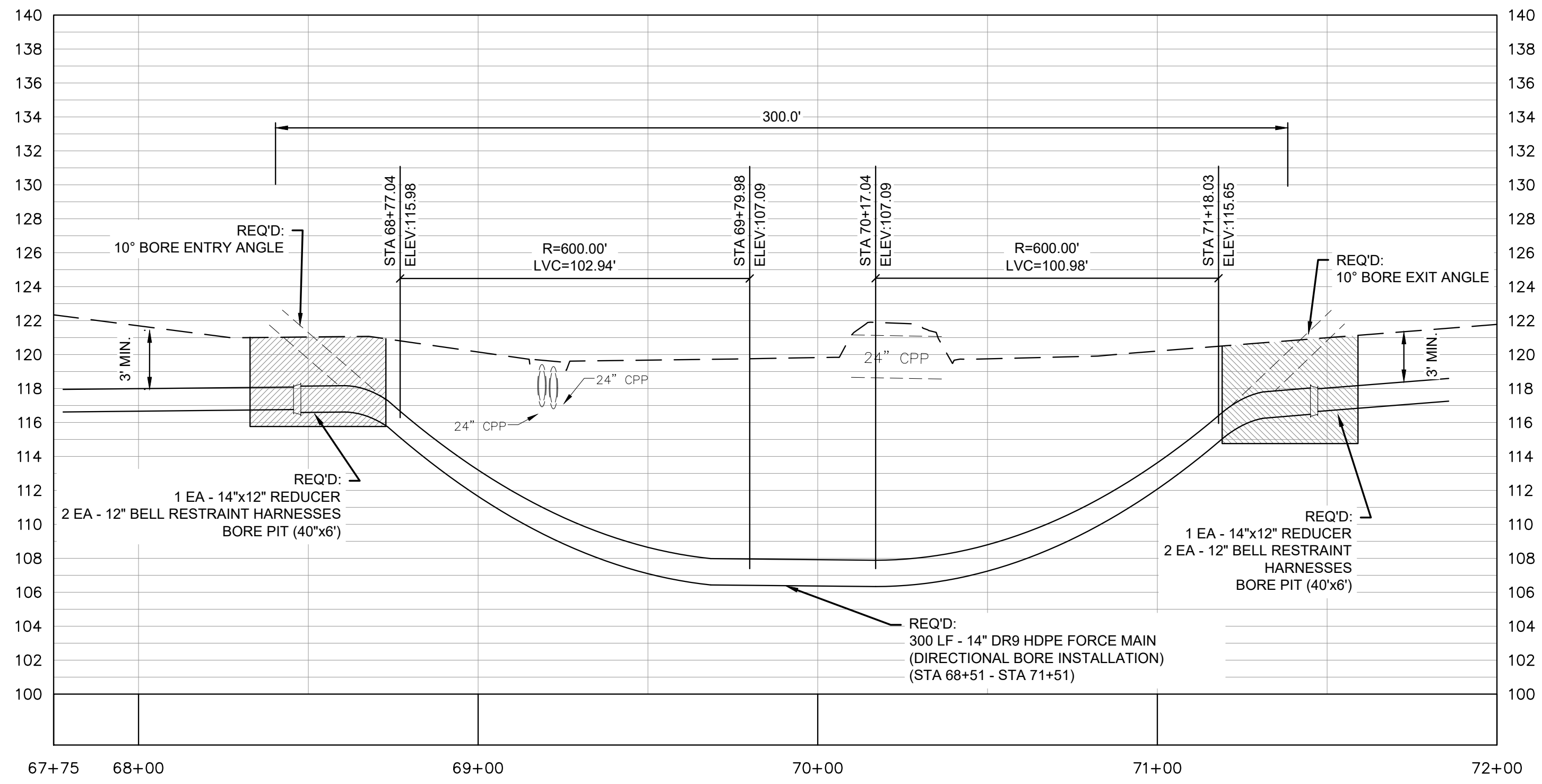
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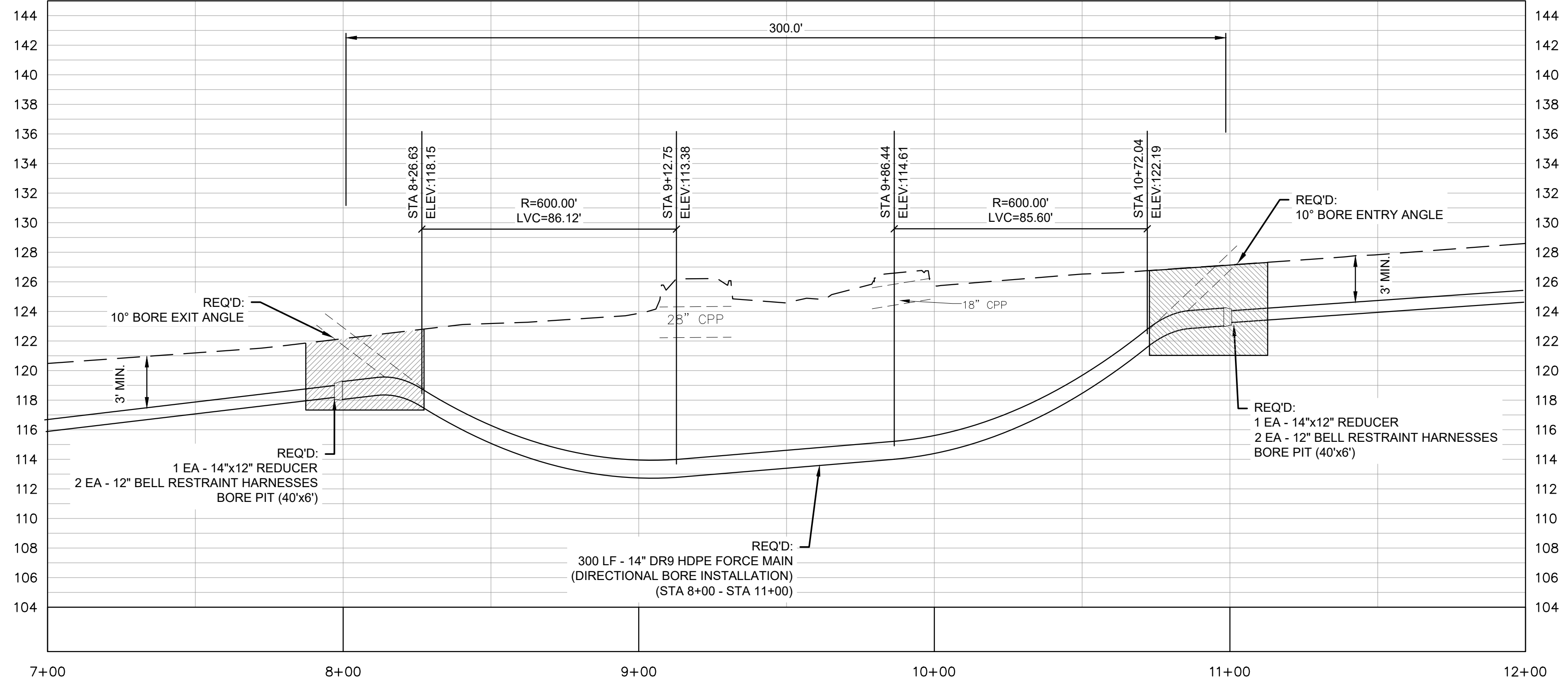
PROPOSED DIRECTIONAL BORE
STA. 0+20 - STA. 2+00

1 PROFILE
C-310 SCALE: H:1"=30' / V: 1"=6'



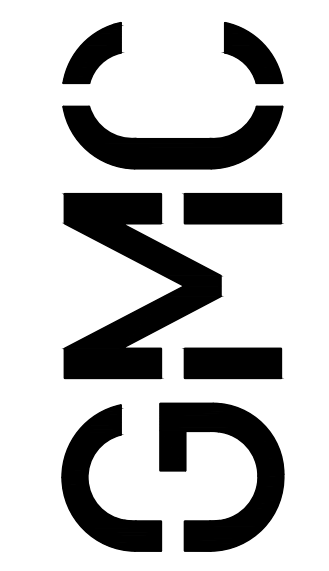
PROPOSED DIRECTIONAL BORE
STA. 68+51 - STA. 71+51

7 PROFILE
C-310 SCALE: H:1"=30' / V: 1"=6'



PROPOSED DIRECTIONAL BORE
STA. 8+00 - STA. 11+00

3 PROFILE
C-310 SCALE: H:1"=30' / V: 1"=6'



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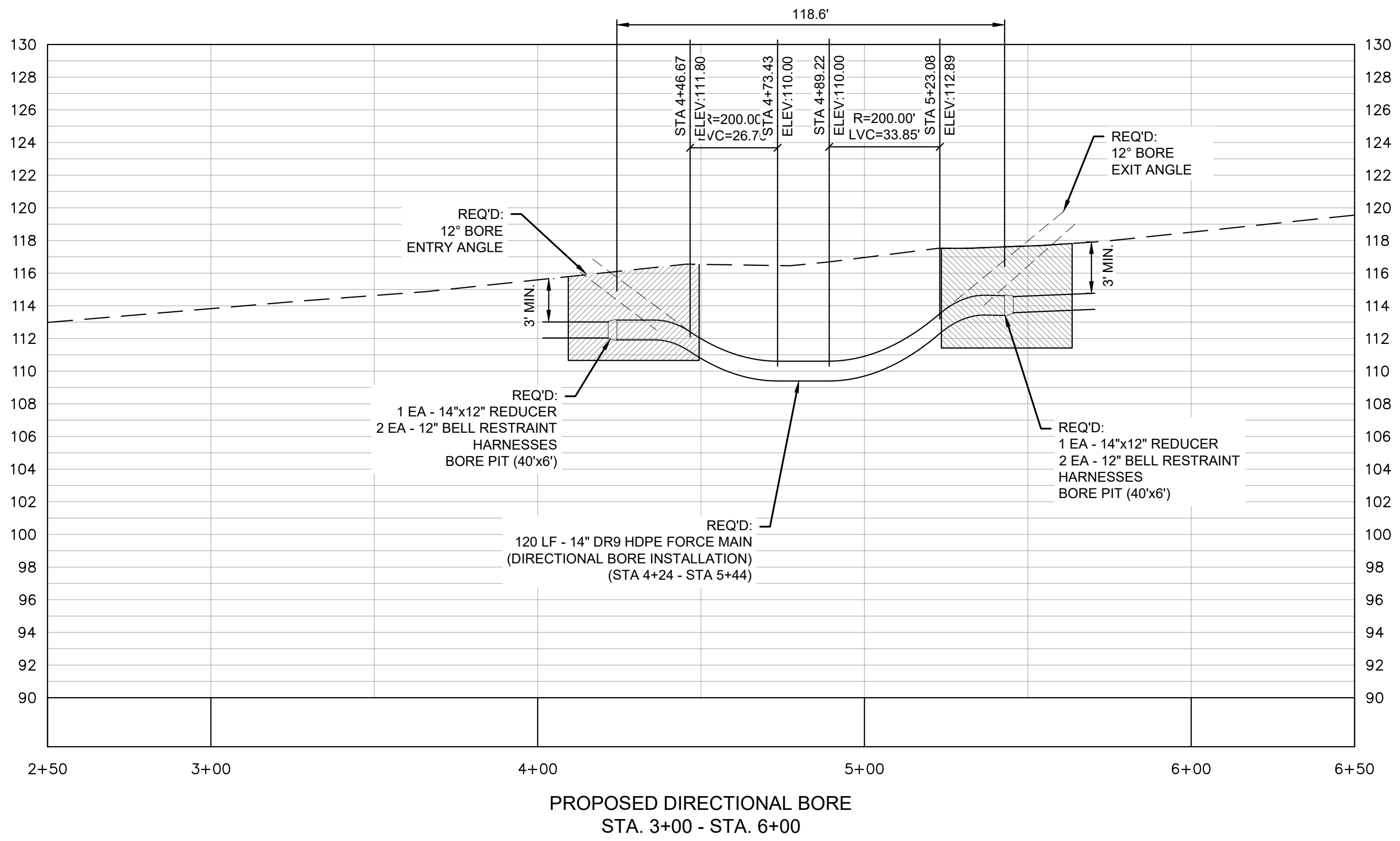
USDA FORCE MAIN
UPGRADES
ROBERTSDALE, ALABAMA
GMC # CMOB210098(3)



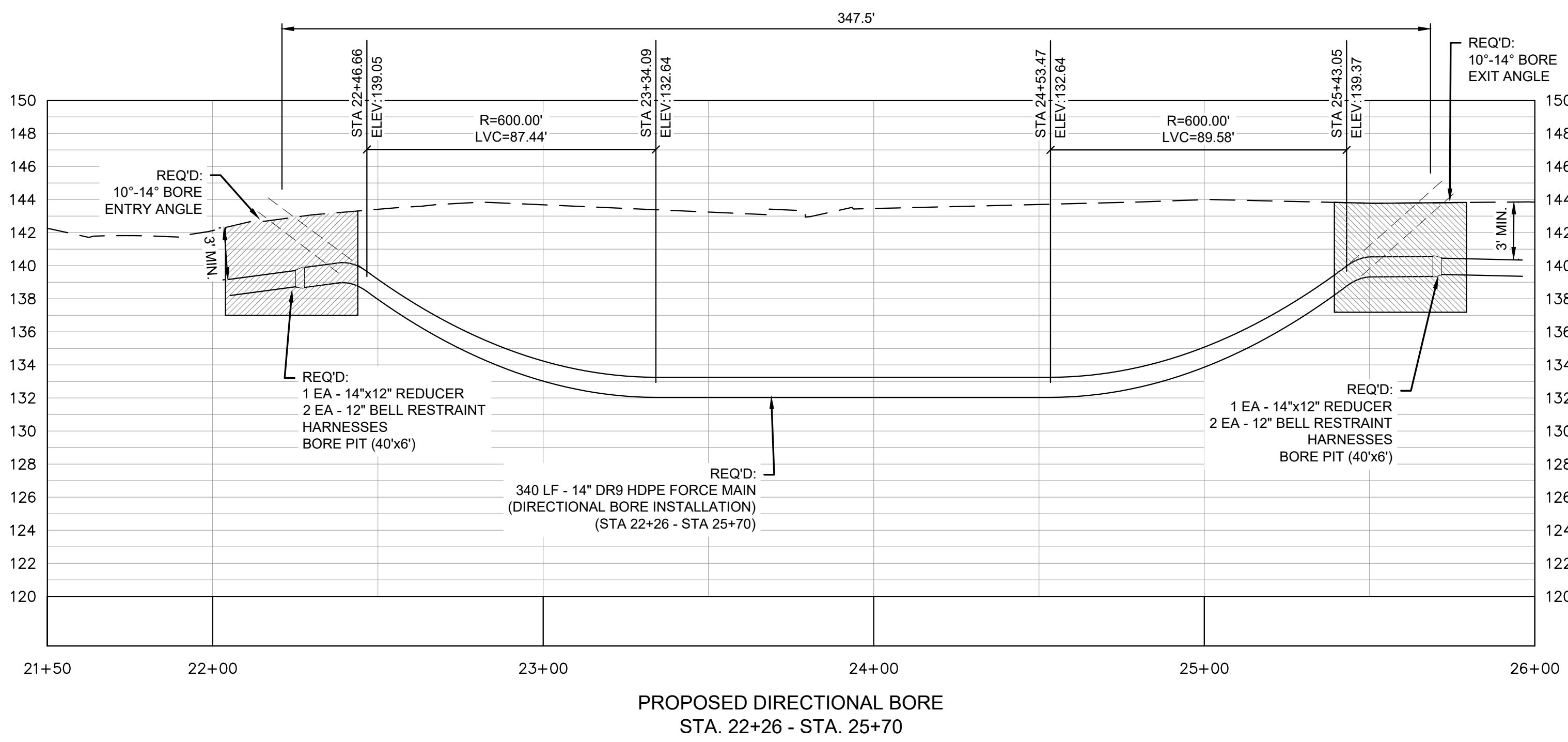
BORE PROFILES
C-310

H
G
F
E
D
C
B
A

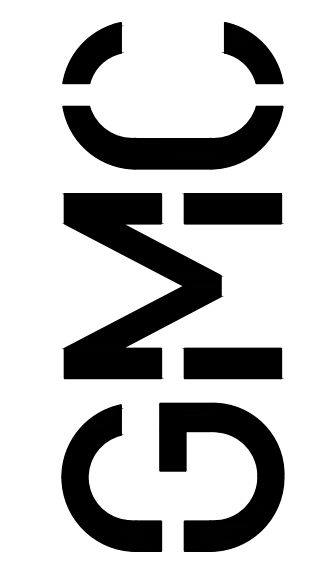
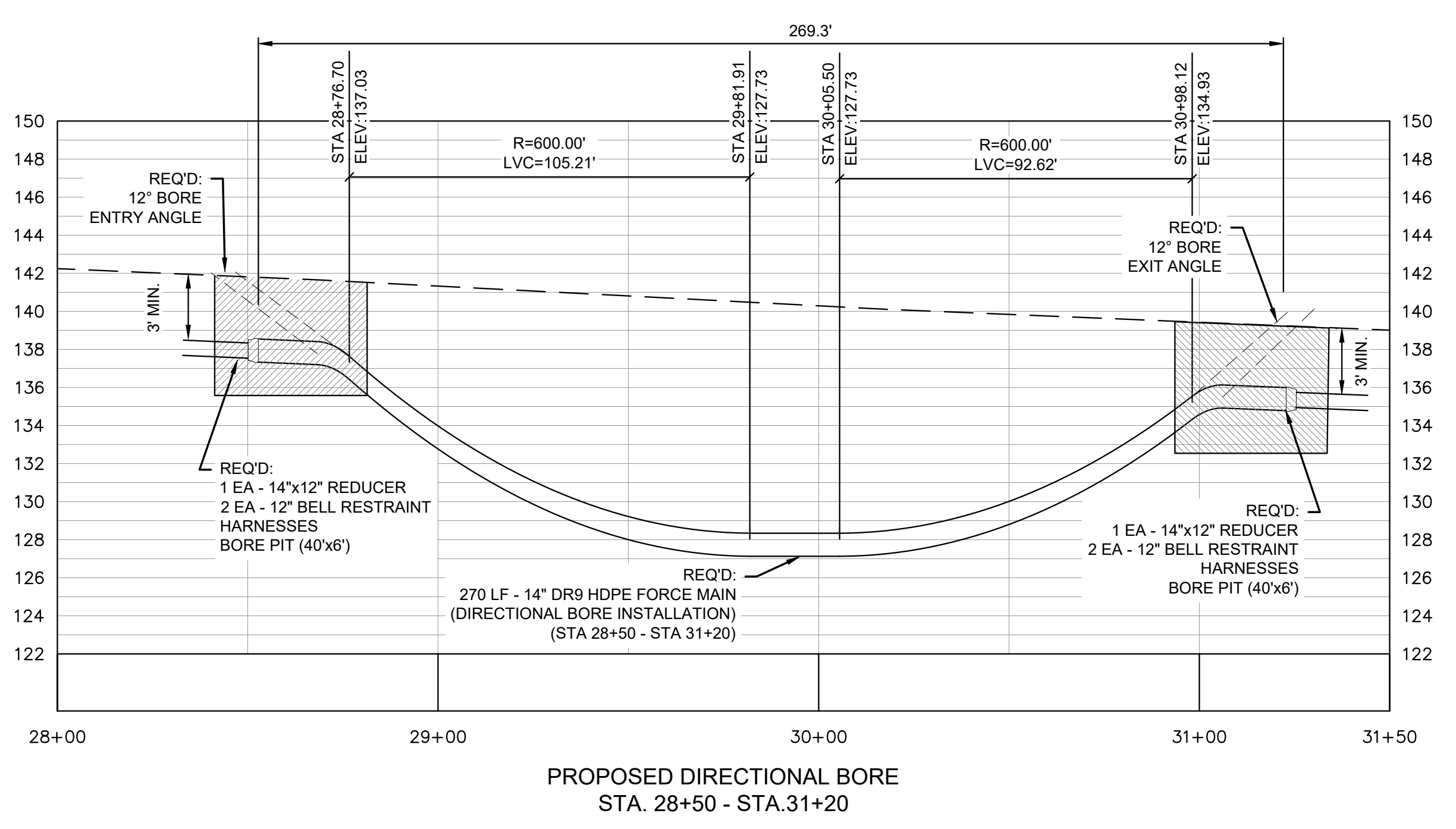
2 PROFILE
C-311 SCALE: H:1"=30' / V: 1"=6'



4 PROFILE
C-311 SCALE: H:1"=30' / V: 1"=6'



5 PROFILE
C-311 SCALE: H:1"=30' / V: 1"=6'



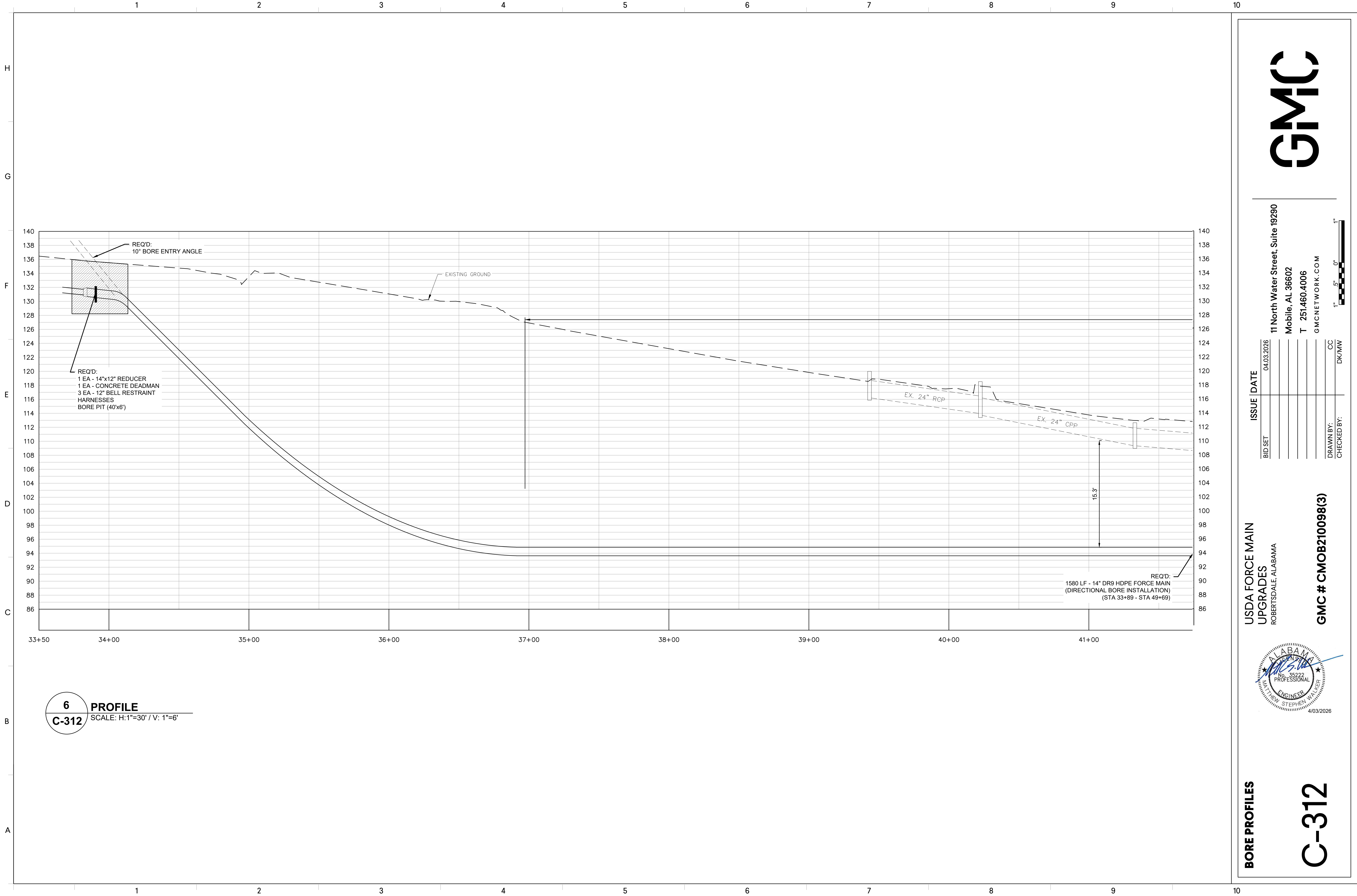
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USDA FORCE MAIN UPGRADES
ROBERTSDALE, ALABAMA
GMC # CMOB210098(3)



BORE PROFILES
C-311



6 PROFILE
C-312 SCALE: H:1"=30' / V: 1"=6'



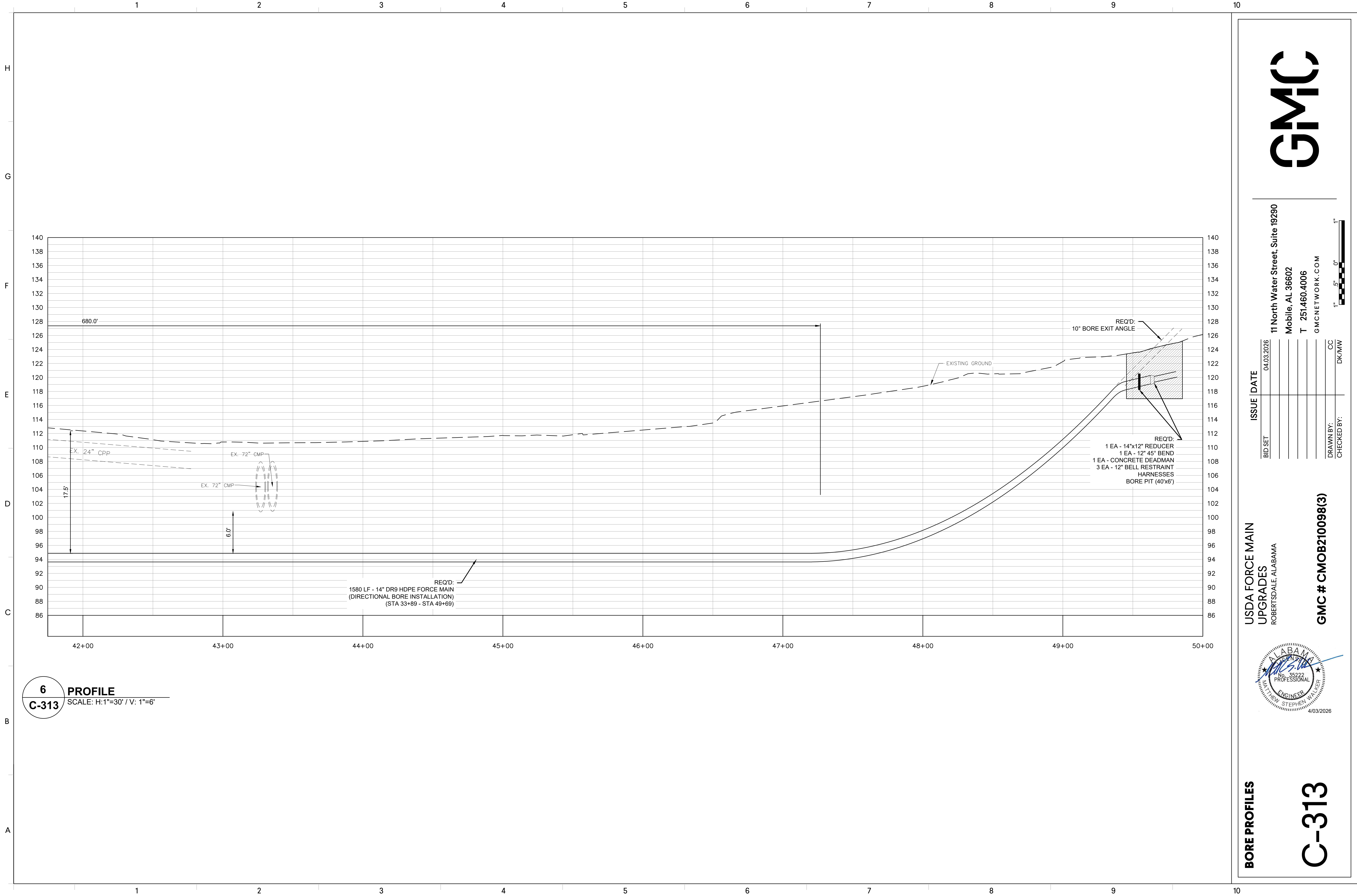
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USDA FORCE MAIN UPGRADES
 ROBERTSDALE, ALABAMA
GMC # CMOB210098(3)



BORE PROFILES
C-312



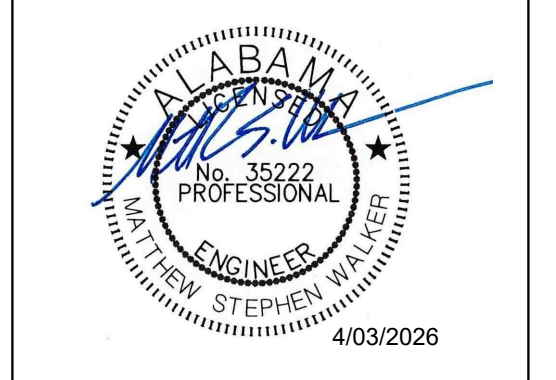
6 PROFILE
C-313 SCALE: H:1"=30' / V: 1"=6'



ISSUE DATE	04.03.2026
BID SET	
ISSUE	
DATE	
BY	
CHECKED BY:	CC DK/MW

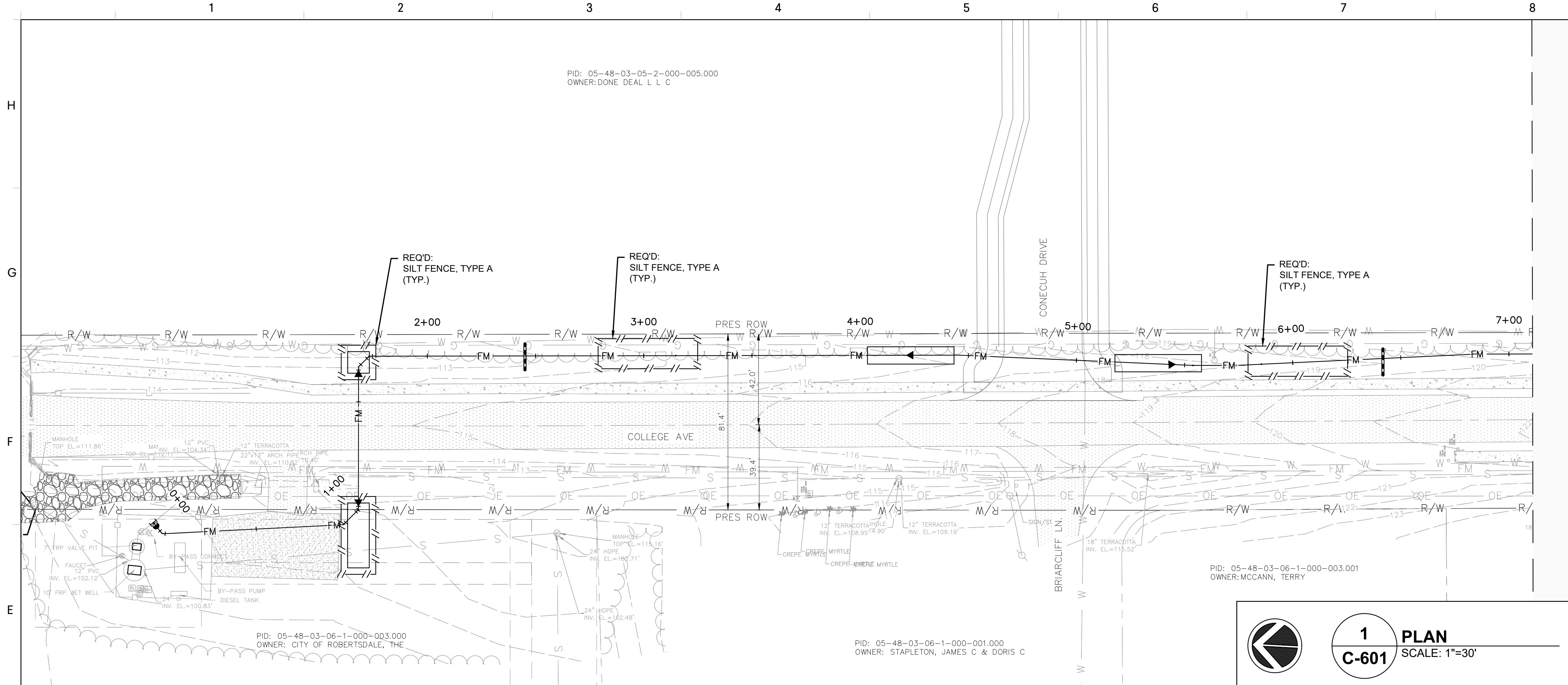
**USDA FORCE MAIN
UPGRADES**
ROBERTSDALE, ALABAMA


GMC # CMOB210098(3)

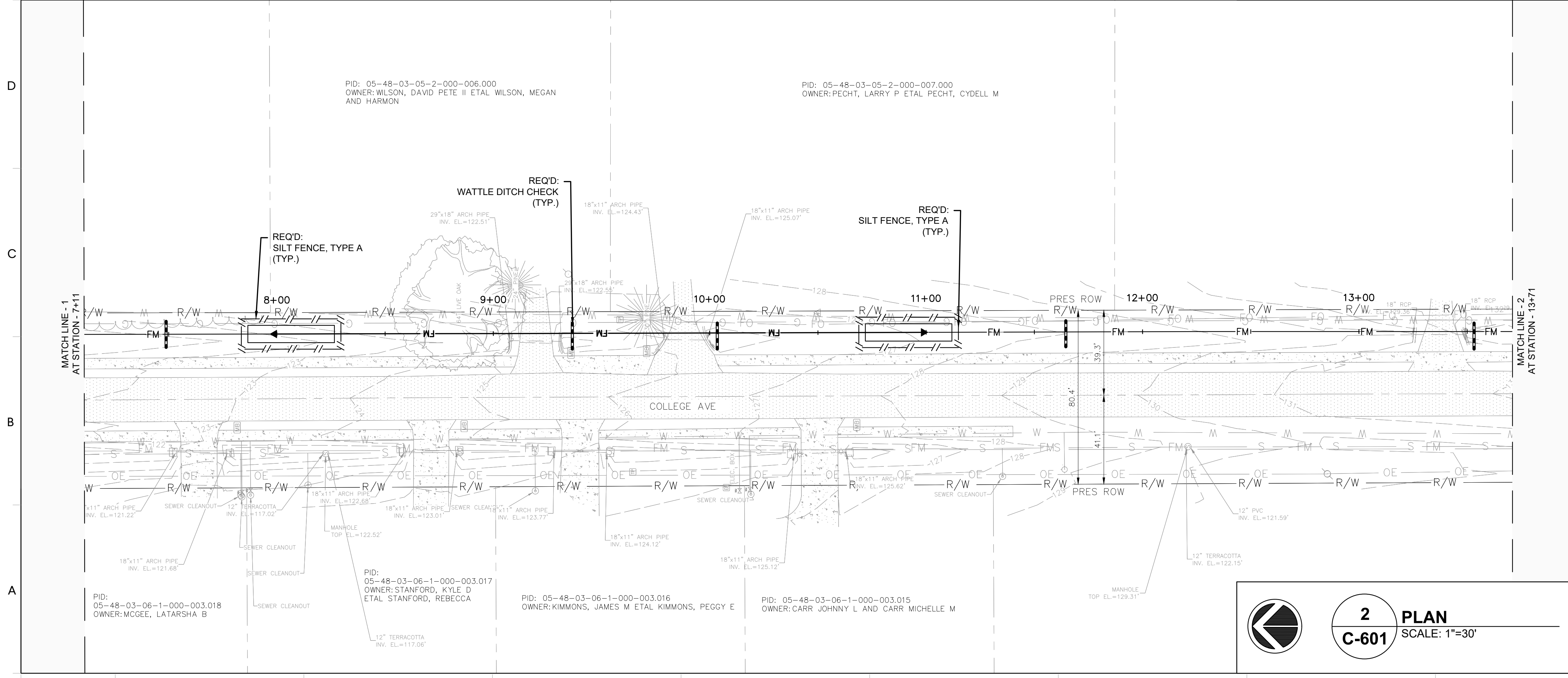


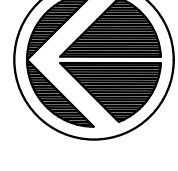
BORE PROFILES

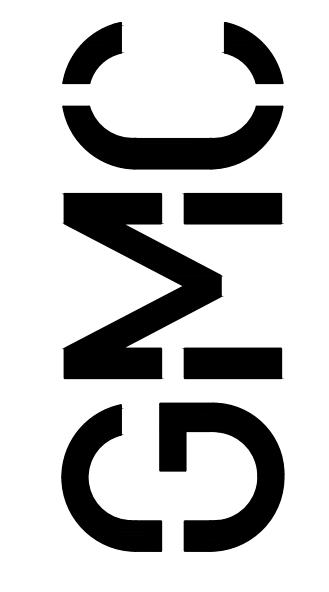
C-313




1
C-601 PLAN
 SCALE: 1"=30'




2
C-601 PLAN
 SCALE: 1"=30'



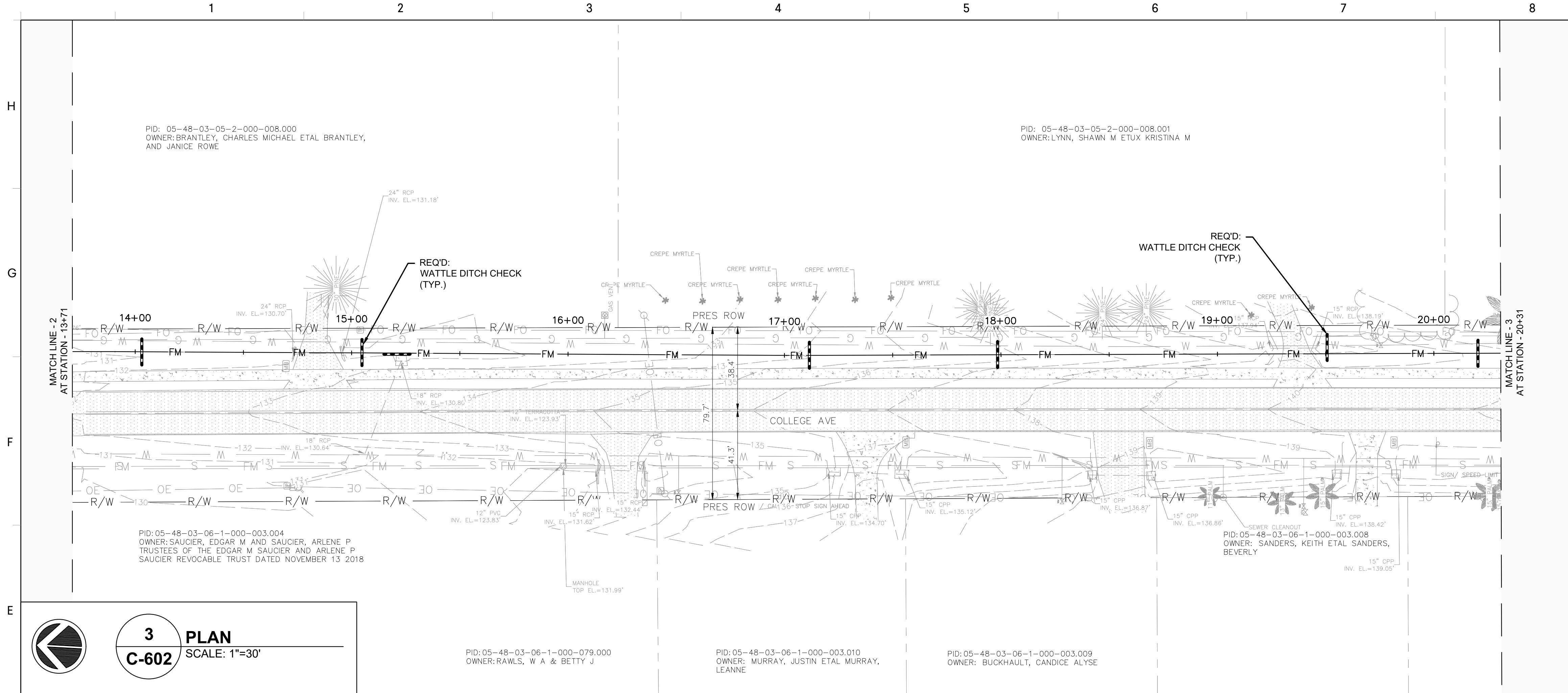
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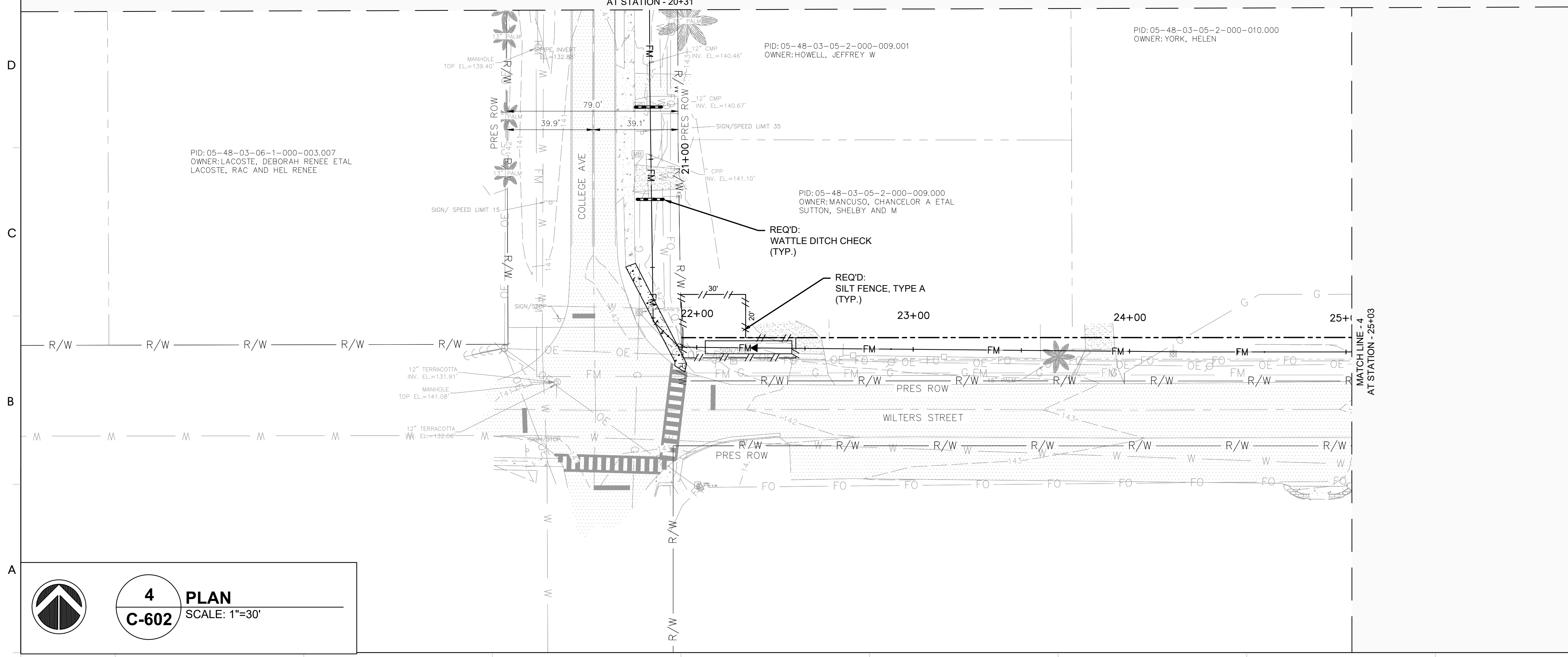
**USDA FORCE MAIN
 UPGRADES**
 ROBERTSDALE, ALABAMA
GMC # CMOB210098(3)



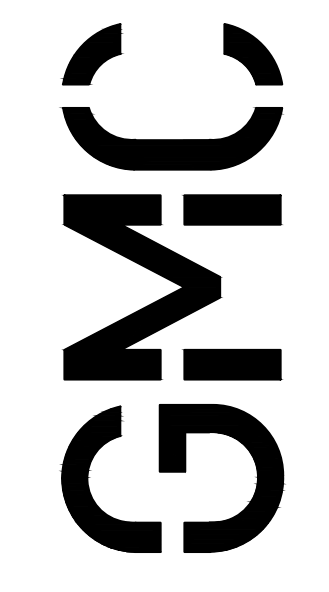
EROSION CONTROL PLAN
STA 0+00 - STA 13+71
C-601



3 PLAN
SCALE: 1"=30'



4 PLAN
SCALE: 1"=30'



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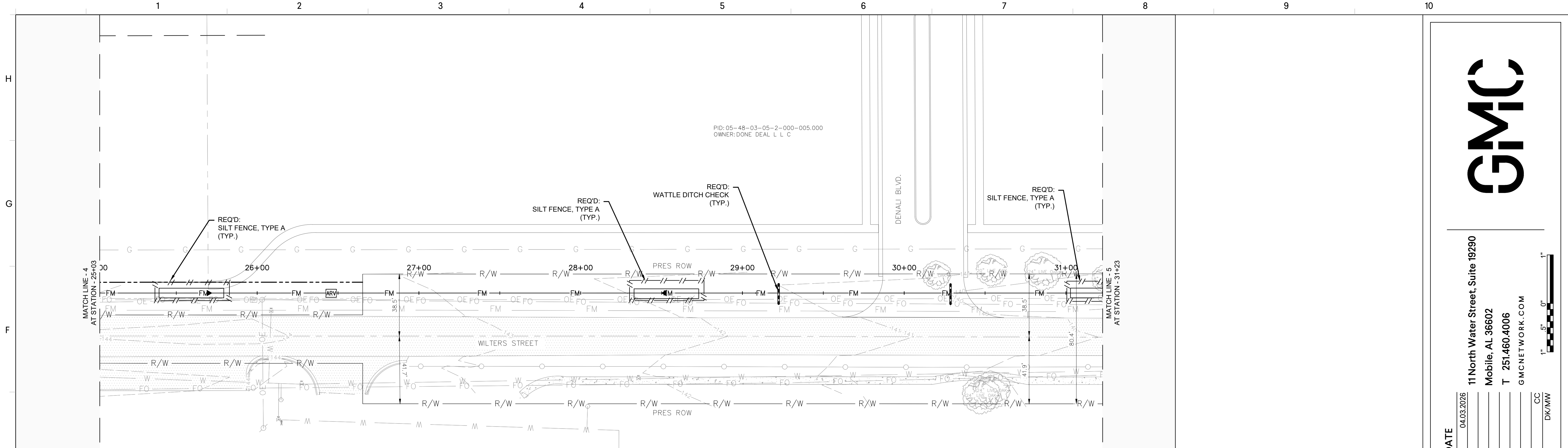
USDA FORCE MAIN
UPGRADES
ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

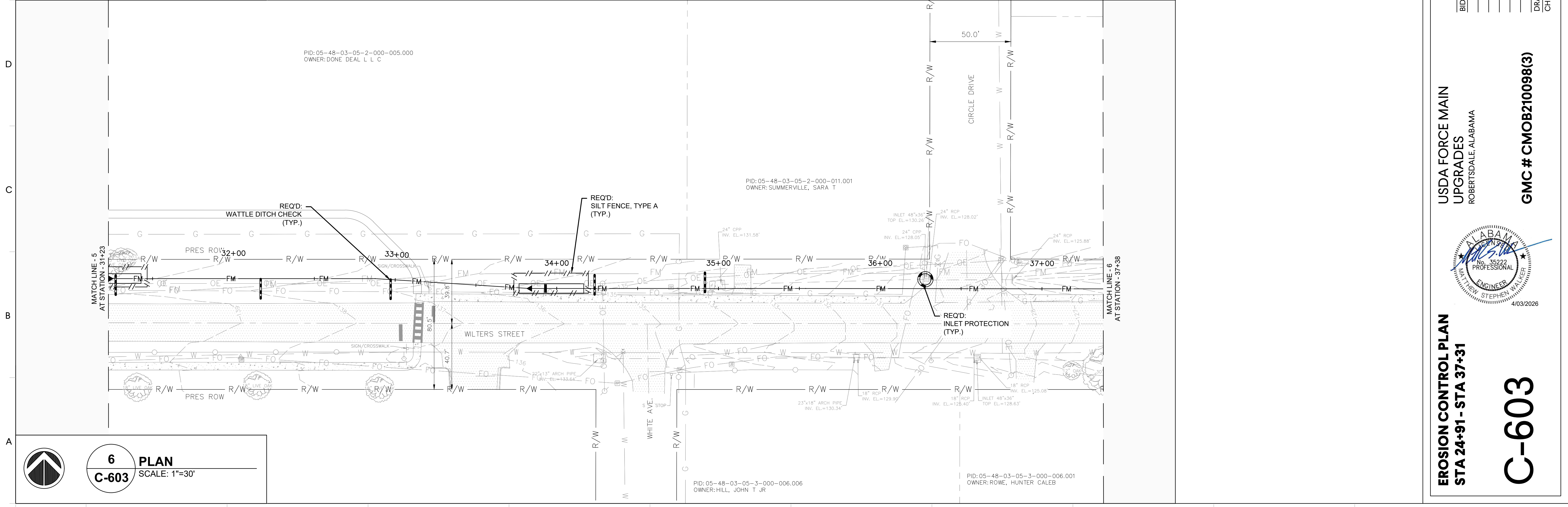


EROSION CONTROL PLAN
STA 13+71 - STA 24+91

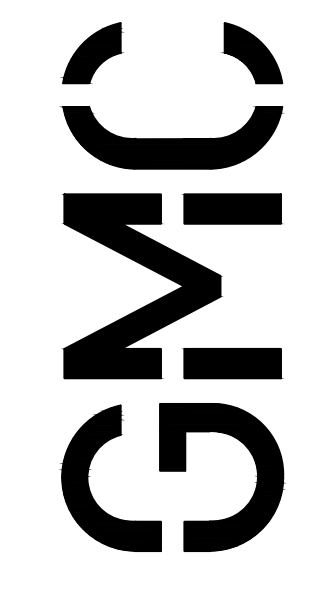
C-602



5 PLAN
SCALE: 1"=30'



6 PLAN
SCALE: 1"=30'



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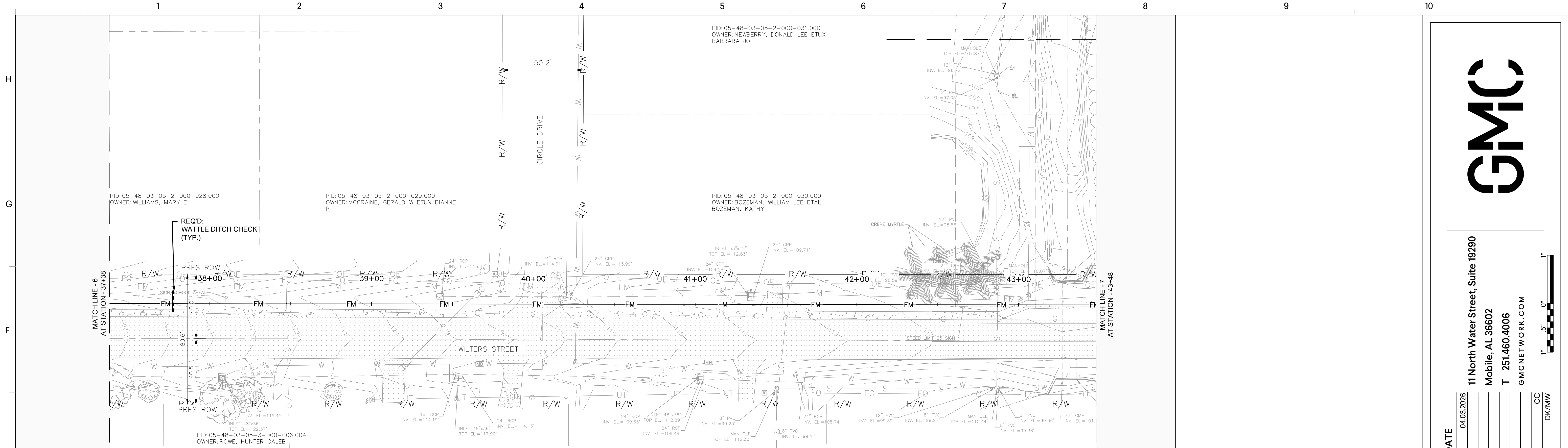
USDA FORCE MAIN
UPGRADES
ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

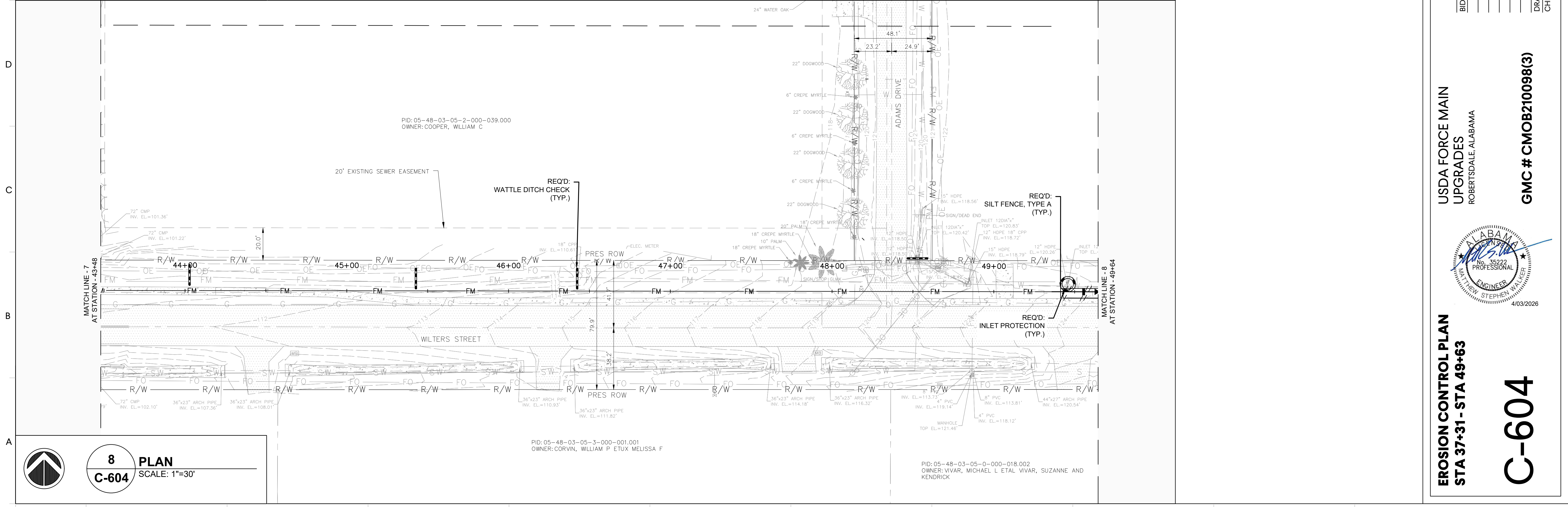


EROSION CONTROL PLAN
STA 24+91 - STA 37+31

C-603



7 PLAN
C-604 SCALE: 1"=30'



8 PLAN
C-604 SCALE: 1"=30'

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1" = 30'
 0" 5" 10'

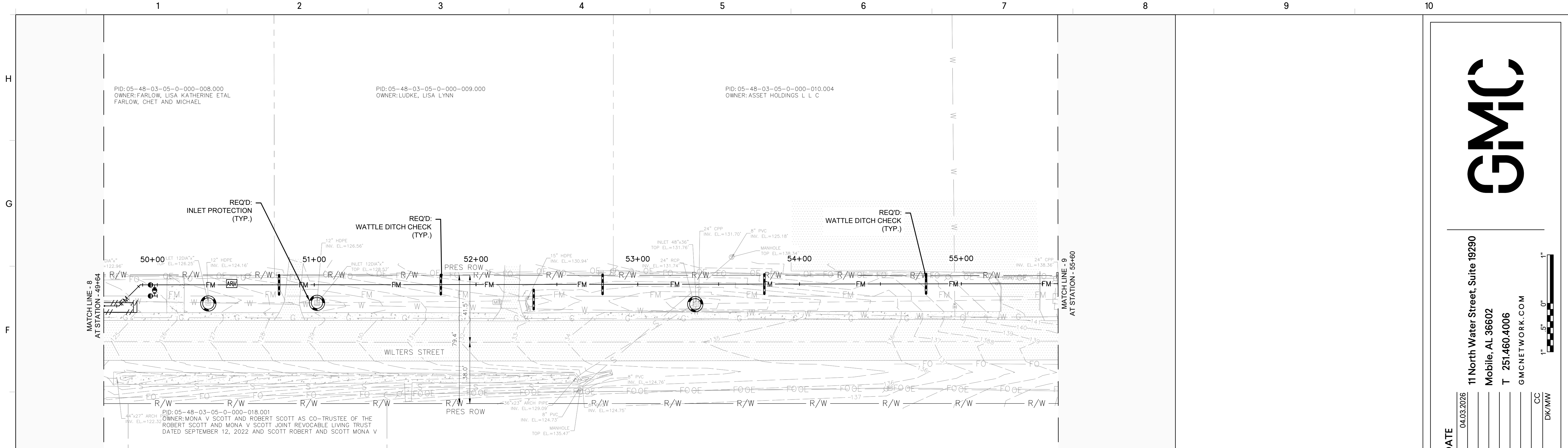
USDA FORCE MAIN UPGRADES
 ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

ALABAMA PROFESSIONAL ENGINEER
 No. 35222
 MATTHEW STEPHEN WALKER
 4/03/2026

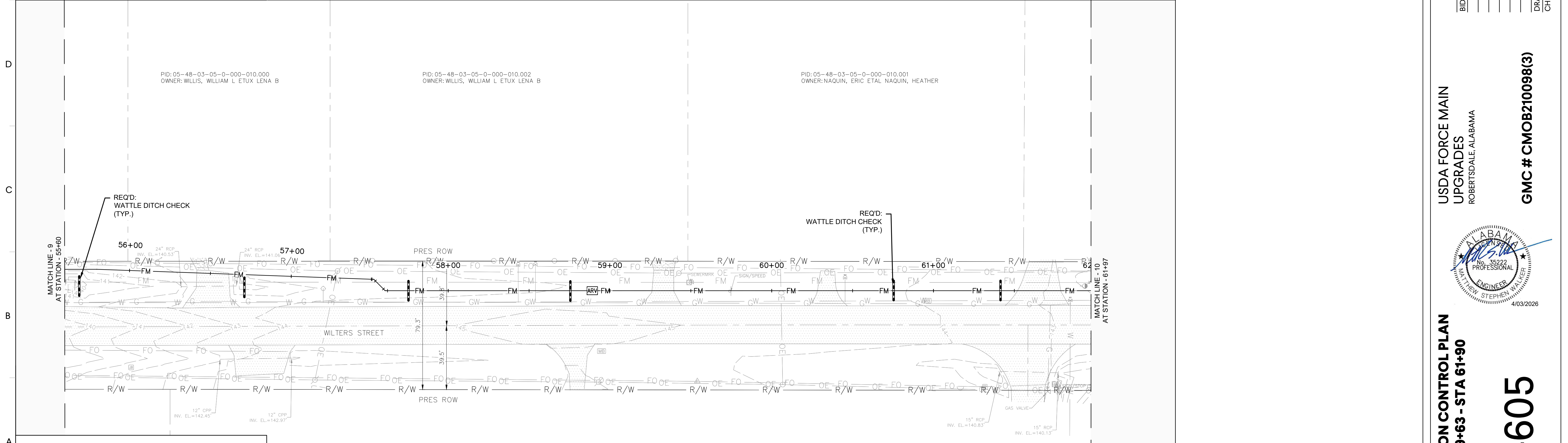
EROSION CONTROL PLAN
STA 37+31 - STA 49+63

C-604



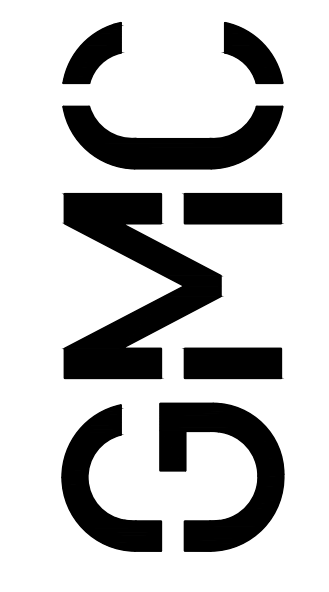
9 PLAN
C-605 SCALE: 1"=30'

PID: 05-48-03-05-0-000-017.000
 OWNER: DENK PAULINE L AND DUNN CHARLINE L



10 PLAN
C-605 SCALE: 1"=30'

PID: 05-48-03-05-0-000-017.001
 OWNER: DENK, ERIC ANTHONY ETUX GRACIE M



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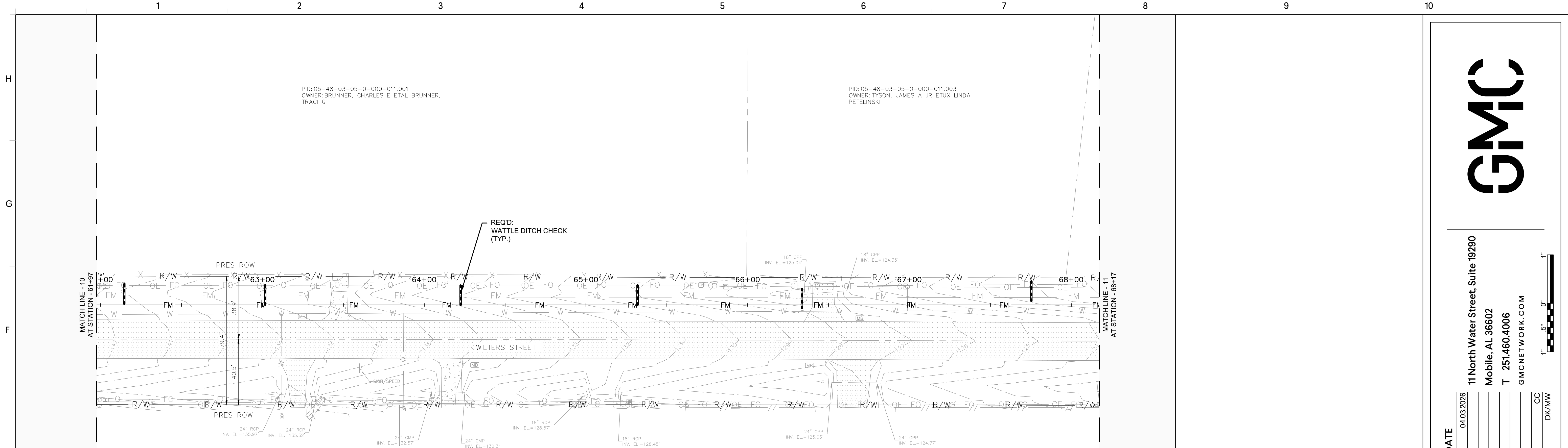
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GMC # CMOB210098(3)



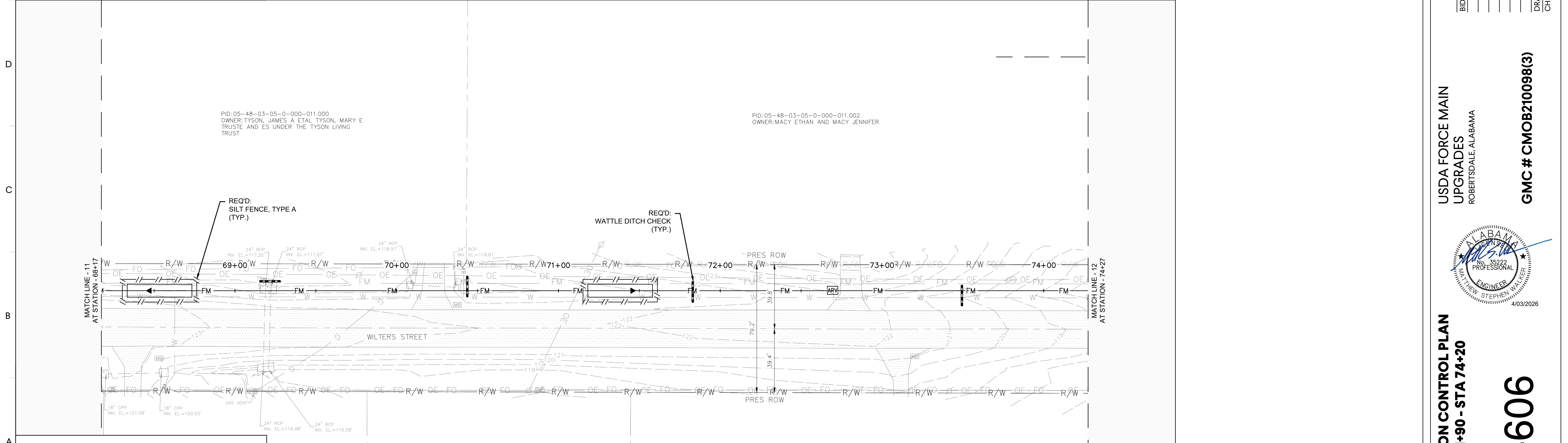
EROSION CONTROL PLAN
STA 49+63 - STA 61+90

C-605



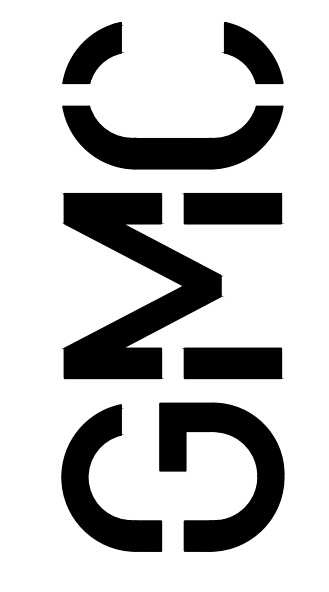
11 PLAN
C-606 SCALE: 1"=30'

PID: 05-48-03-05-0-000-016.000 OWNER: DUNLAVY TAMI L
 PID: 05-48-03-05-0-000-014.001 OWNER: BARNHILL, GORDON JR
 PID: 05-48-03-05-0-000-014.006 OWNER: WIGGINS, B DON ETAL WIGGINS, KATHERINE K



12 PLAN
C-606 SCALE: 1"=30'

PID: 05-48-03-05-0-000-014.004 OWNER: PUGH, DERA LEA
 PID: 05-48-03-05-0-000-014.005 OWNER: DAVIS, FORREST BRADY
 PID: 05-48-03-05-0-000-012.000 OWNER: GANN, DON A/K/A GANN, HORACE DON ETAL GA AND NN, BRENDA G TRUSTEES OF THEIR SUCCESSOR AND S IN TRUST UNDER THE GANN LIVING TRUST DATED APRIL 18, 2013



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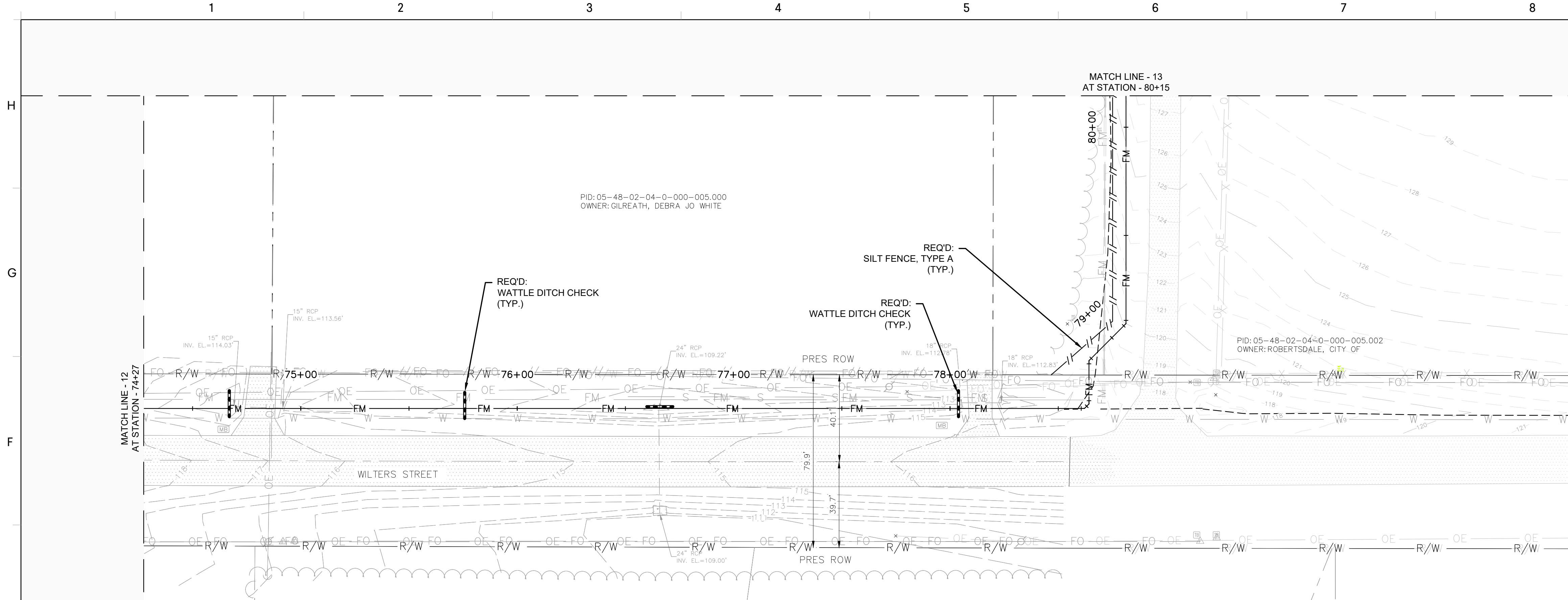
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 UPGRADES
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EROSION CONTROL PLAN
STA 61+90 - STA 74+20

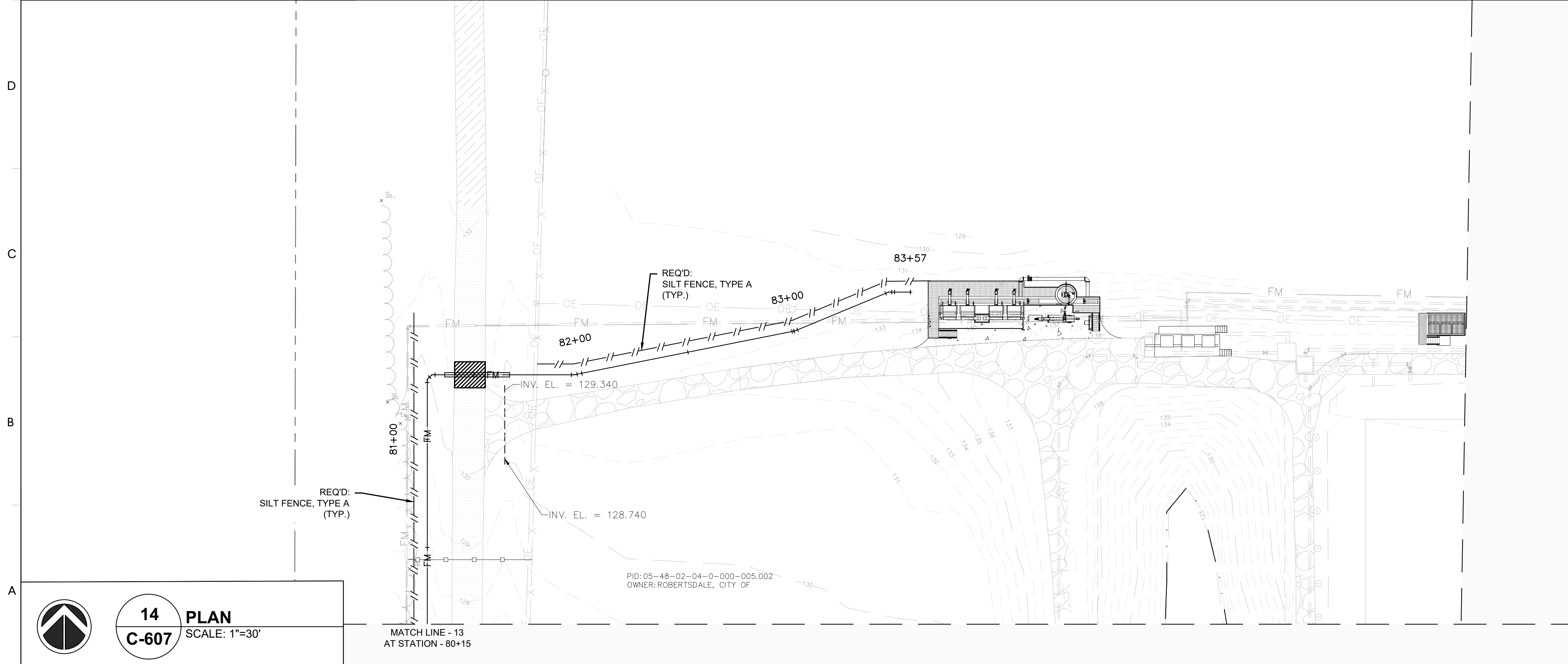
C-606



13 PLAN
C-607 SCALE: 1"=30'

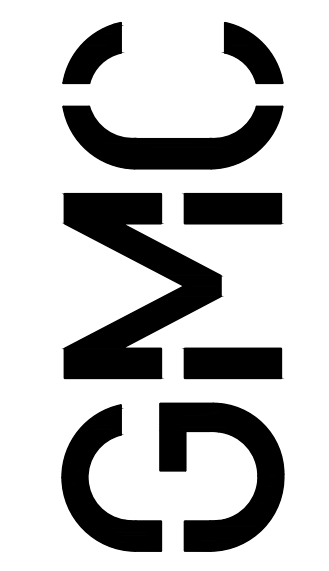
PID: 05-48-02-04-0-000-011.000
 OWNER: MAGNUSEN, ROBERT H ETAL
 MAGNUSEN, ALISON AND D

PID: 05-48-02-04-0-000-012.000
 OWNER: CHANG, MICHAEL ETAL CHANG,
 LAUREN LINNE



14 PLAN
C-607 SCALE: 1"=30'

PID: 05-48-02-04-0-000-005.002
 OWNER: ROBERTSDALE, CITY OF



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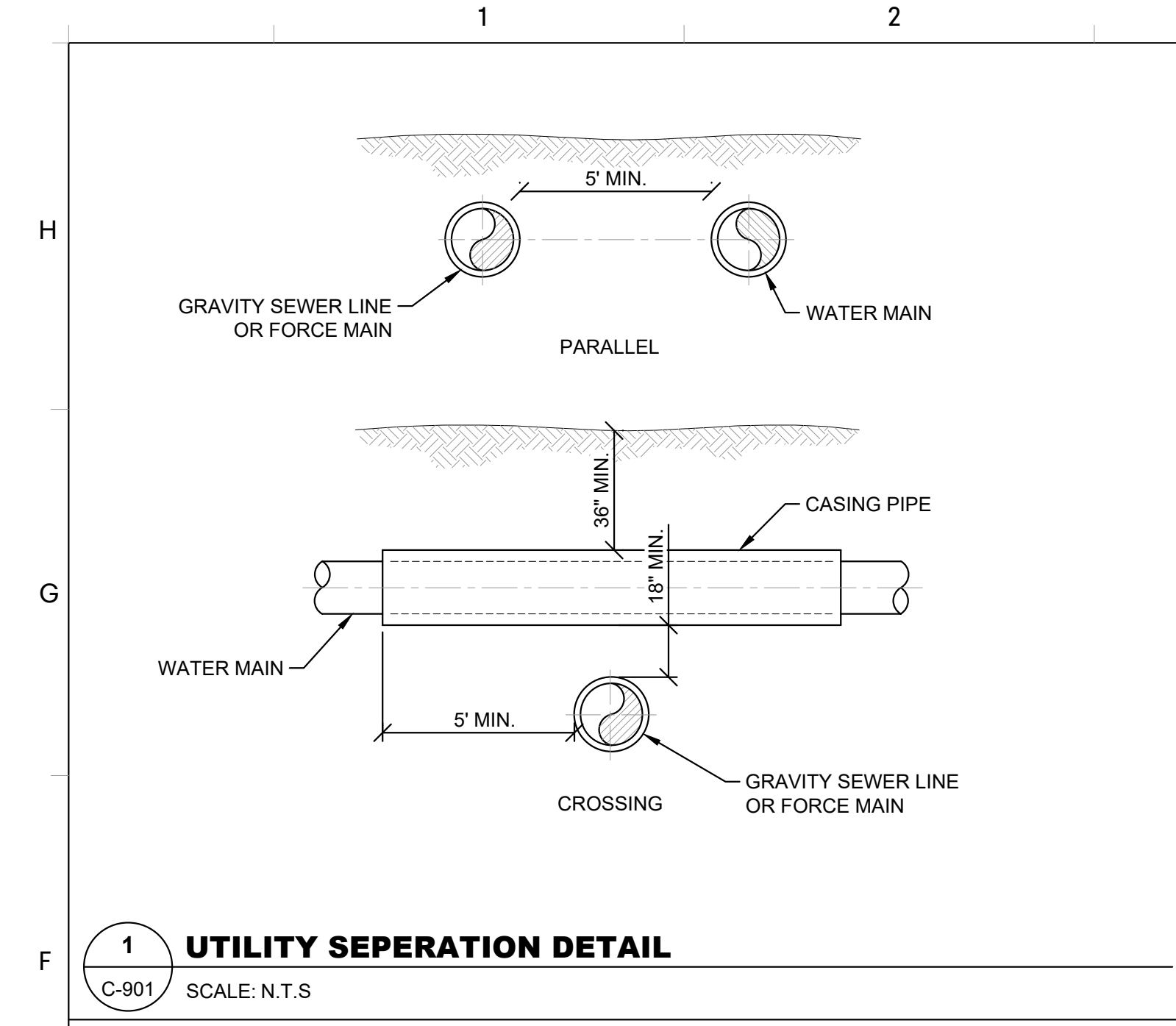
USDA FORCE MAIN
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 ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

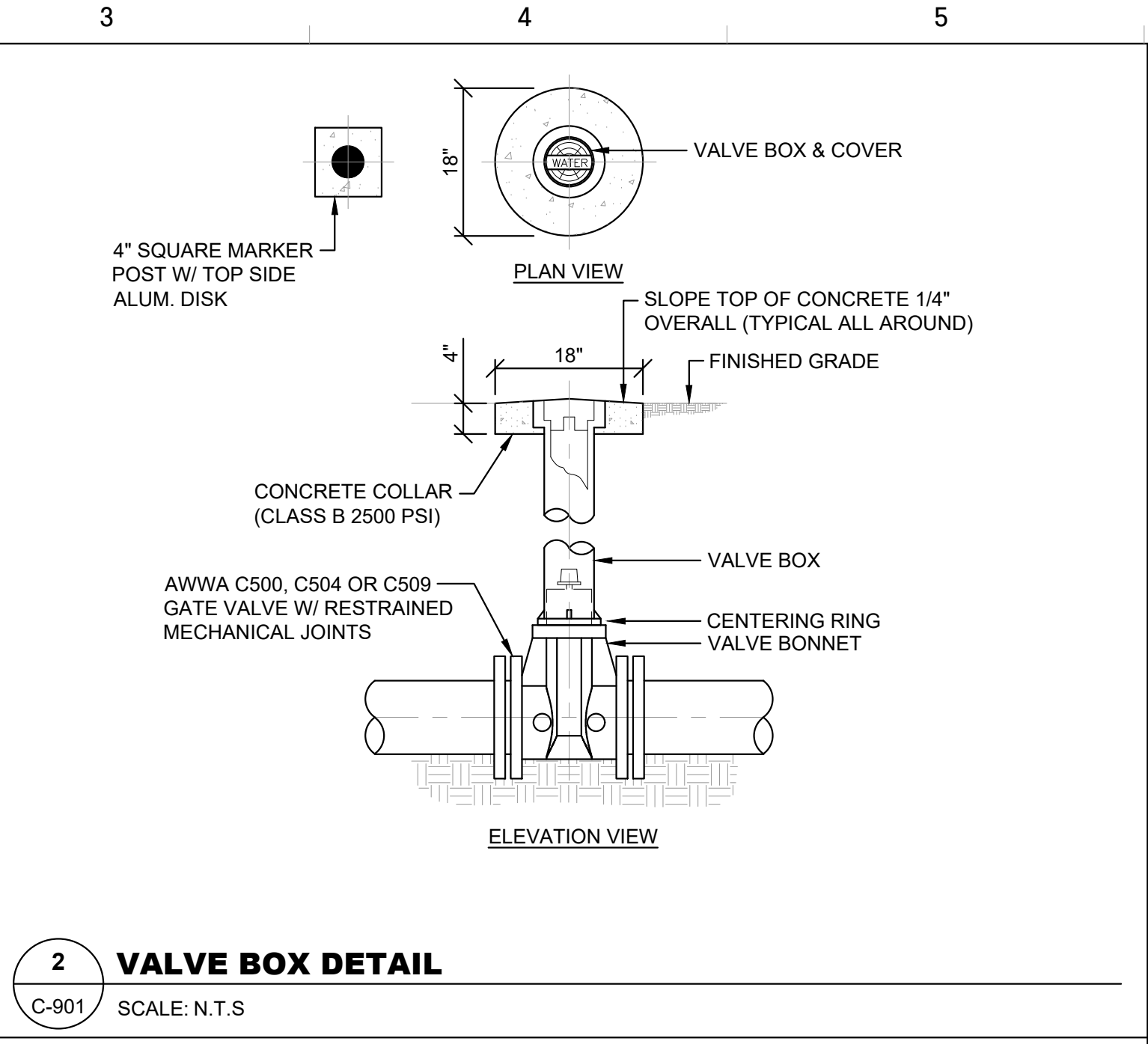


EROSION CONTROL PLAN
STA 74+20 - STA 83+55

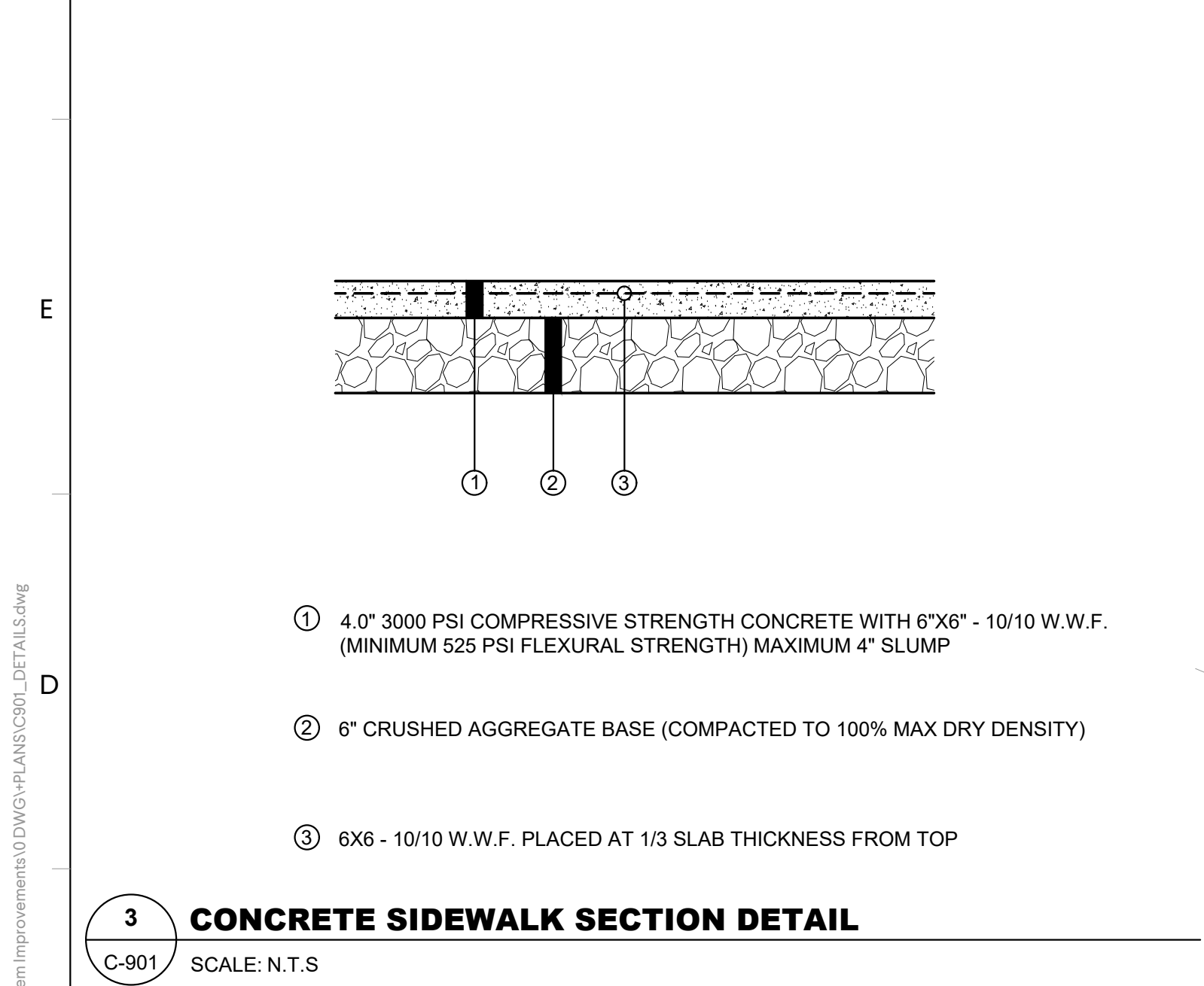
C-607



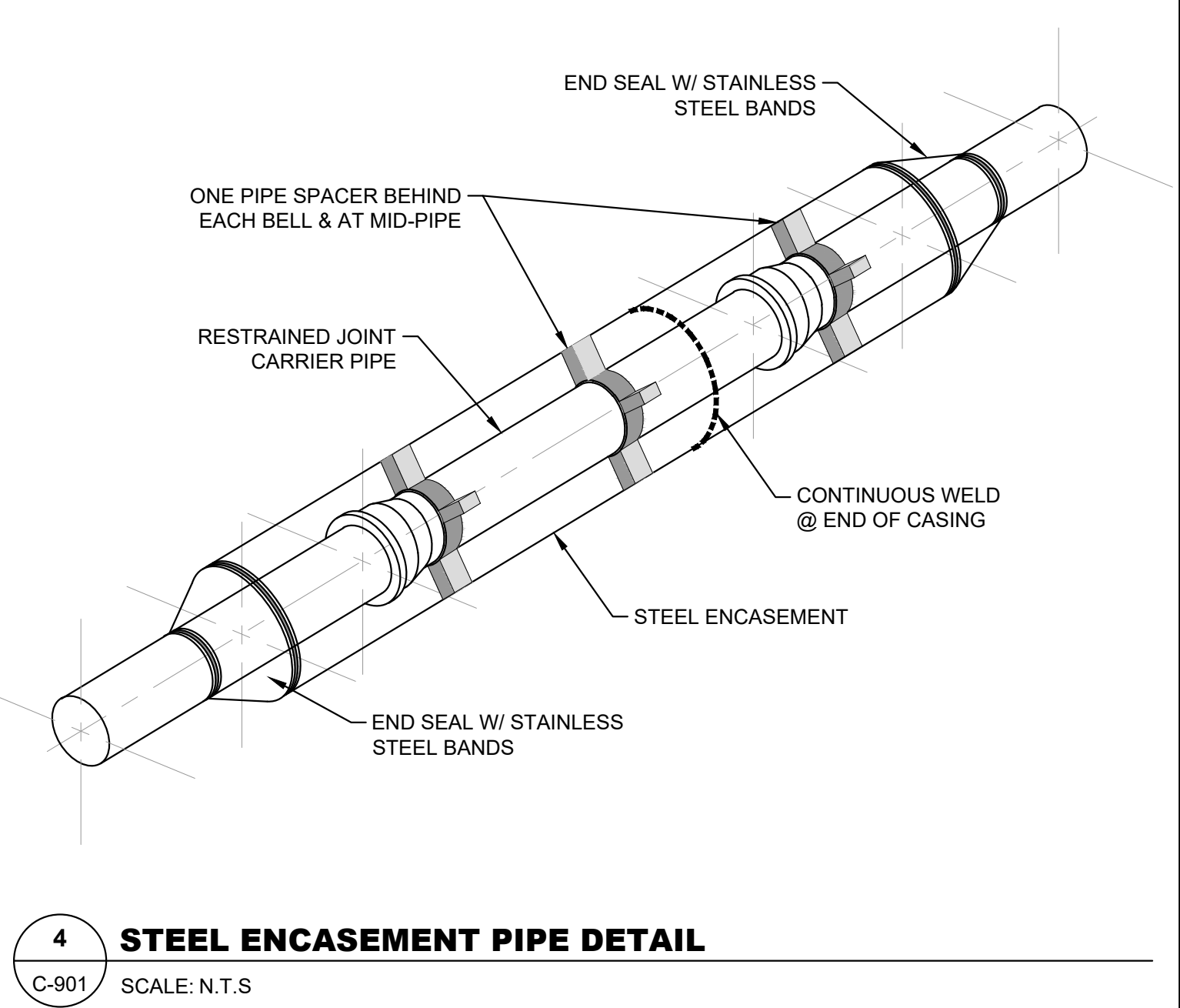
1 UTILITY SEPERATION DETAIL
C-901 SCALE: N.T.S



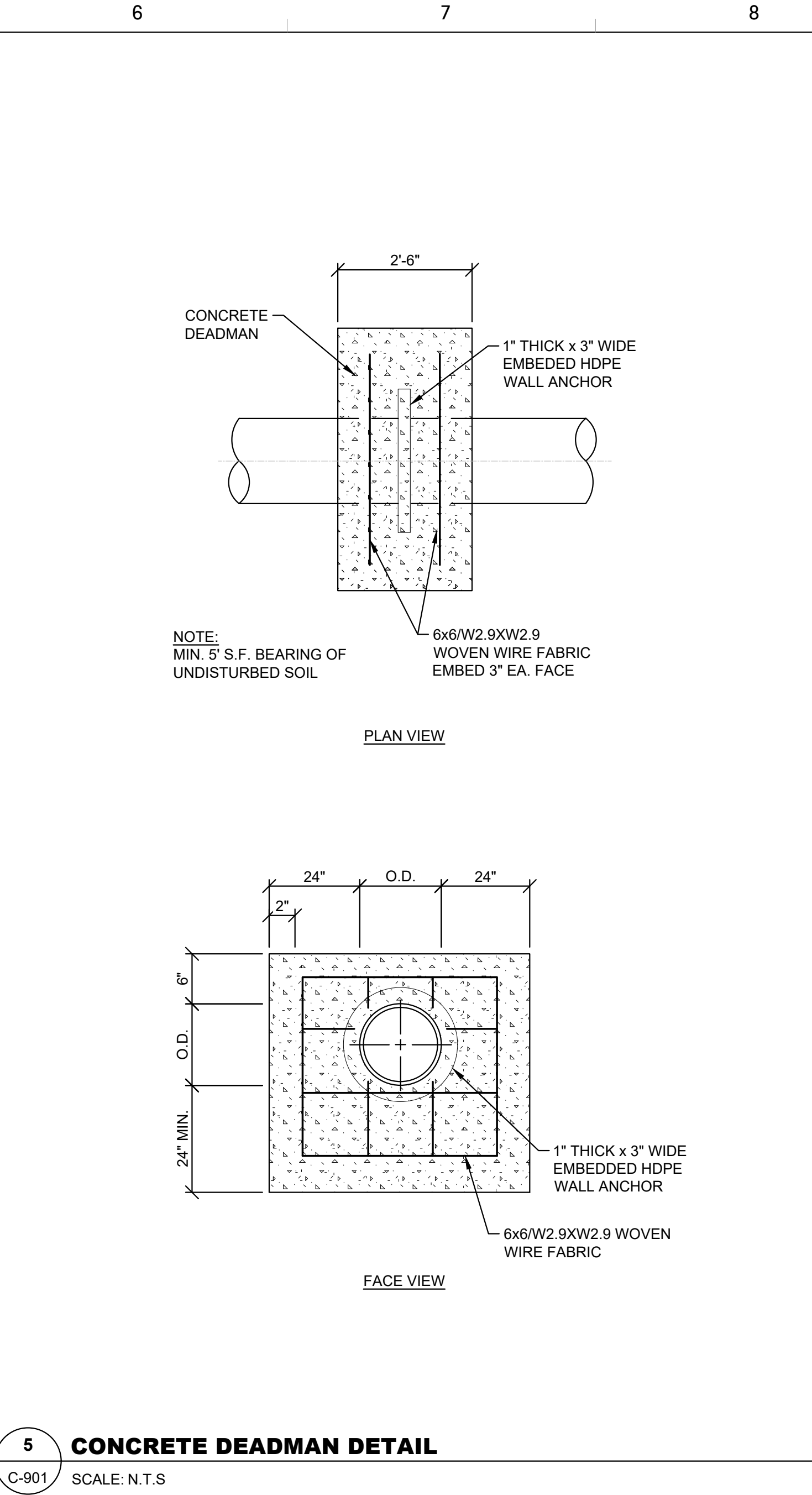
2 VALVE BOX DETAIL
C-901 SCALE: N.T.S



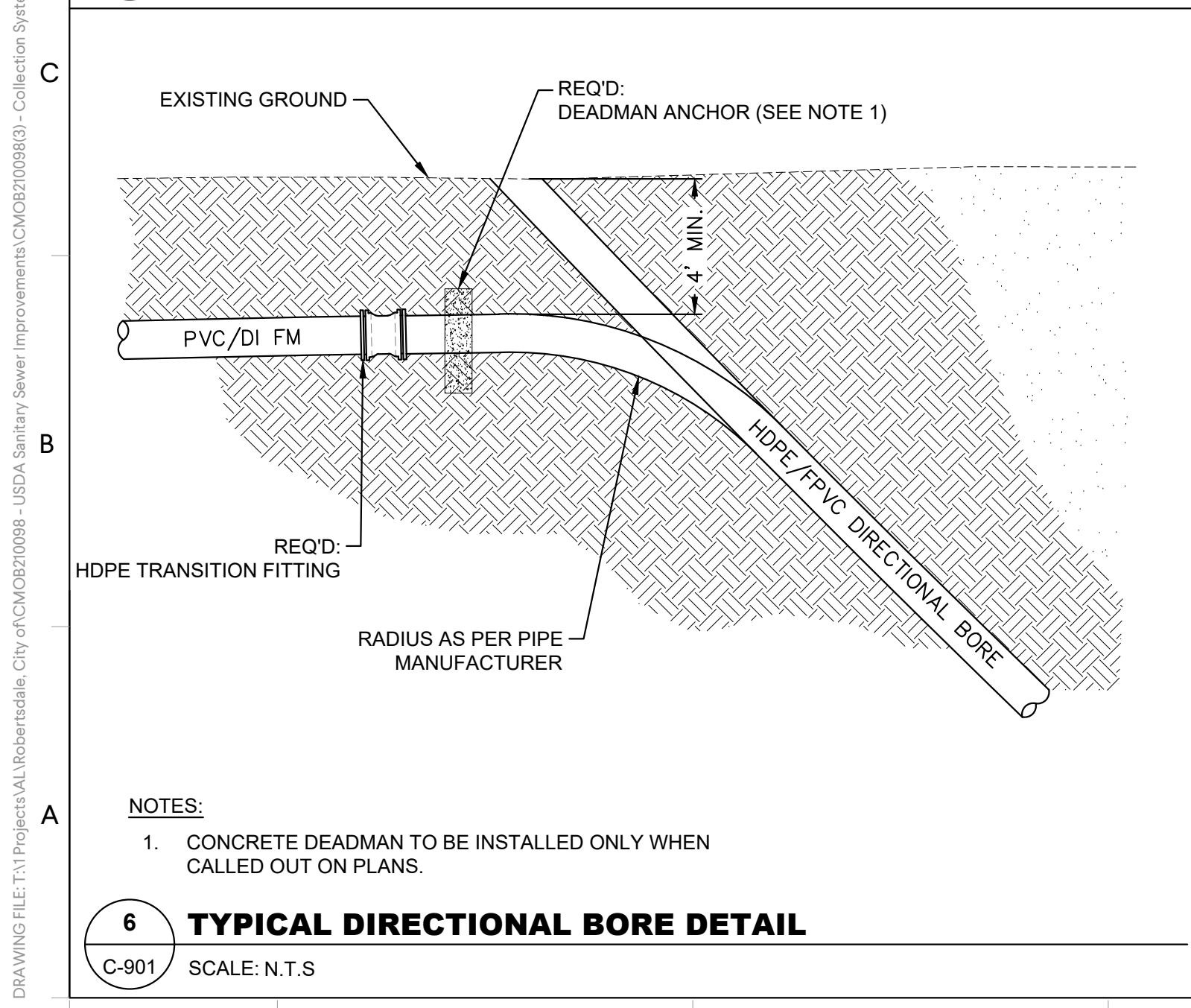
3 CONCRETE SIDEWALK SECTION DETAIL
C-901 SCALE: N.T.S



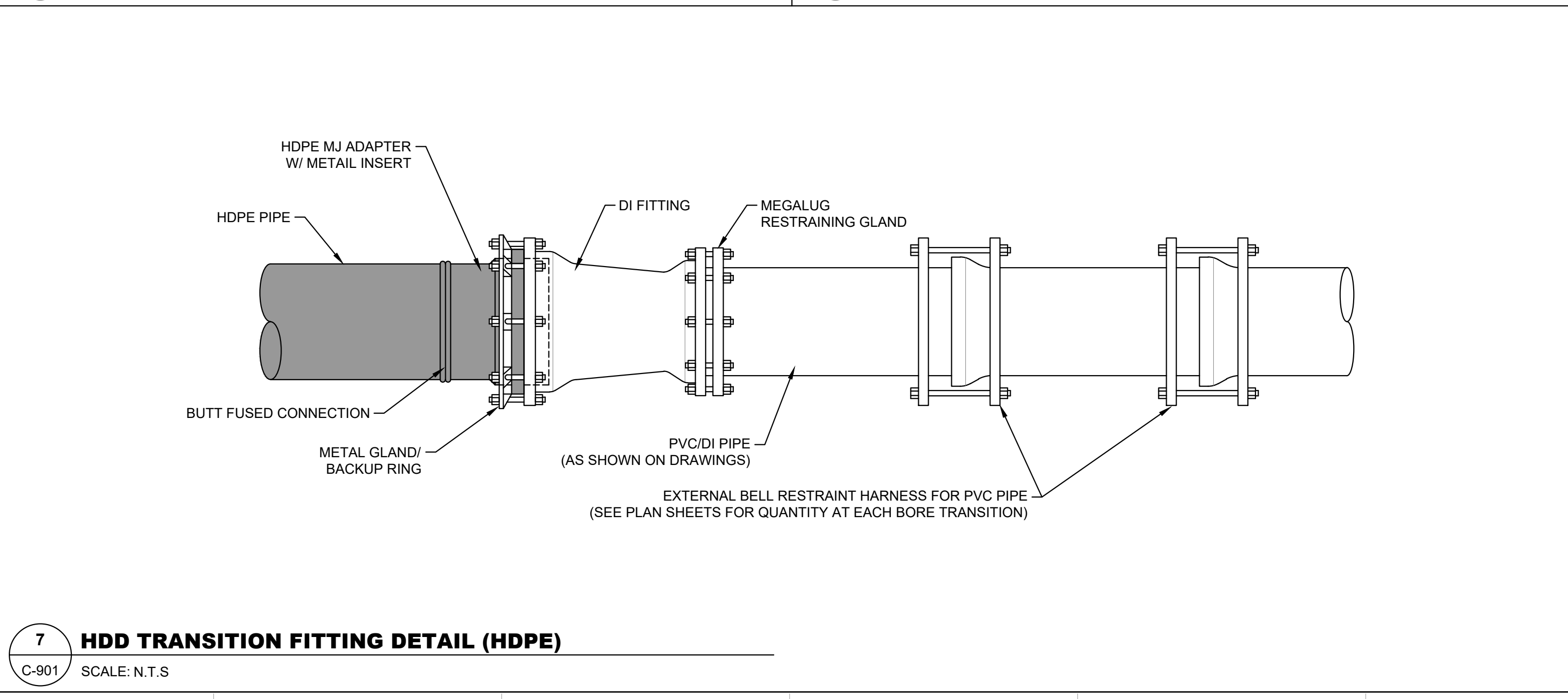
4 STEEL ENCASEMENT PIPE DETAIL
C-901 SCALE: N.T.S



5 CONCRETE DEADMAN DETAIL
C-901 SCALE: N.T.S



6 TYPICAL DIRECTIONAL BORE DETAIL
C-901 SCALE: N.T.S



7 HDD TRANSITION FITTING DETAIL (HDPE)
C-901 SCALE: N.T.S

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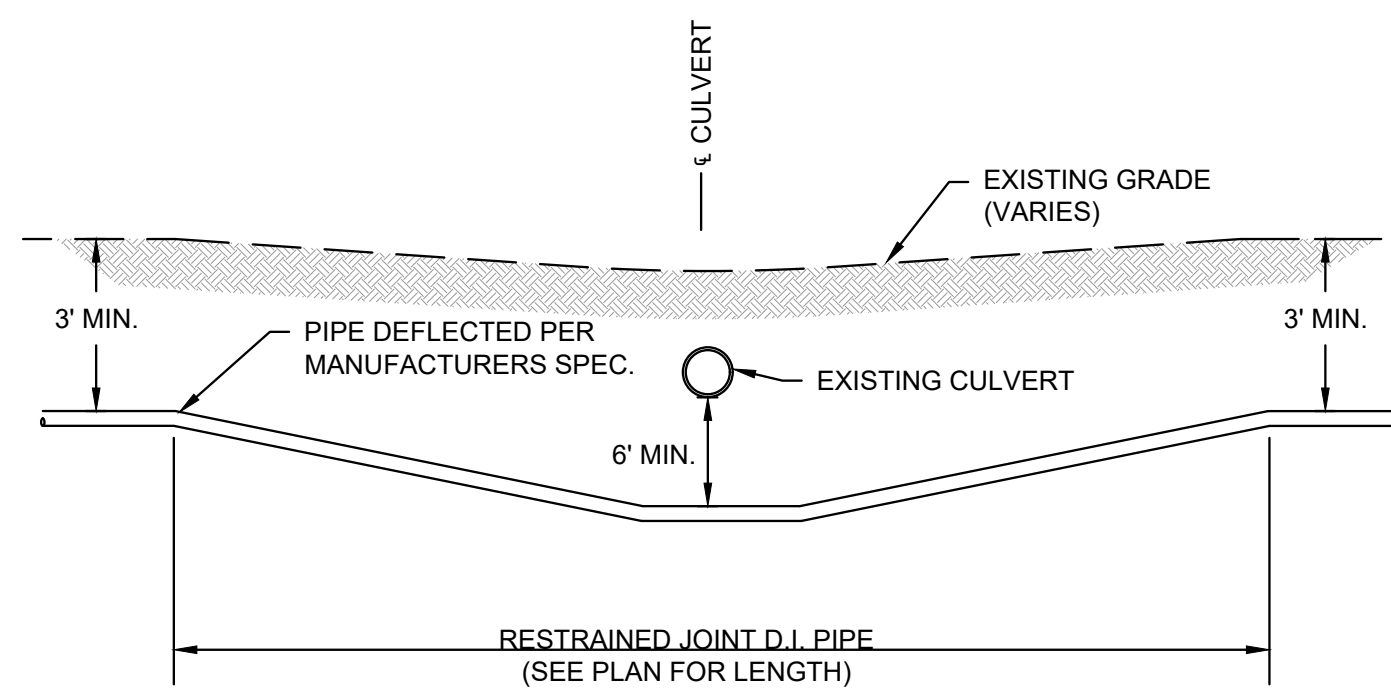
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GMC # CMOB210098(3)

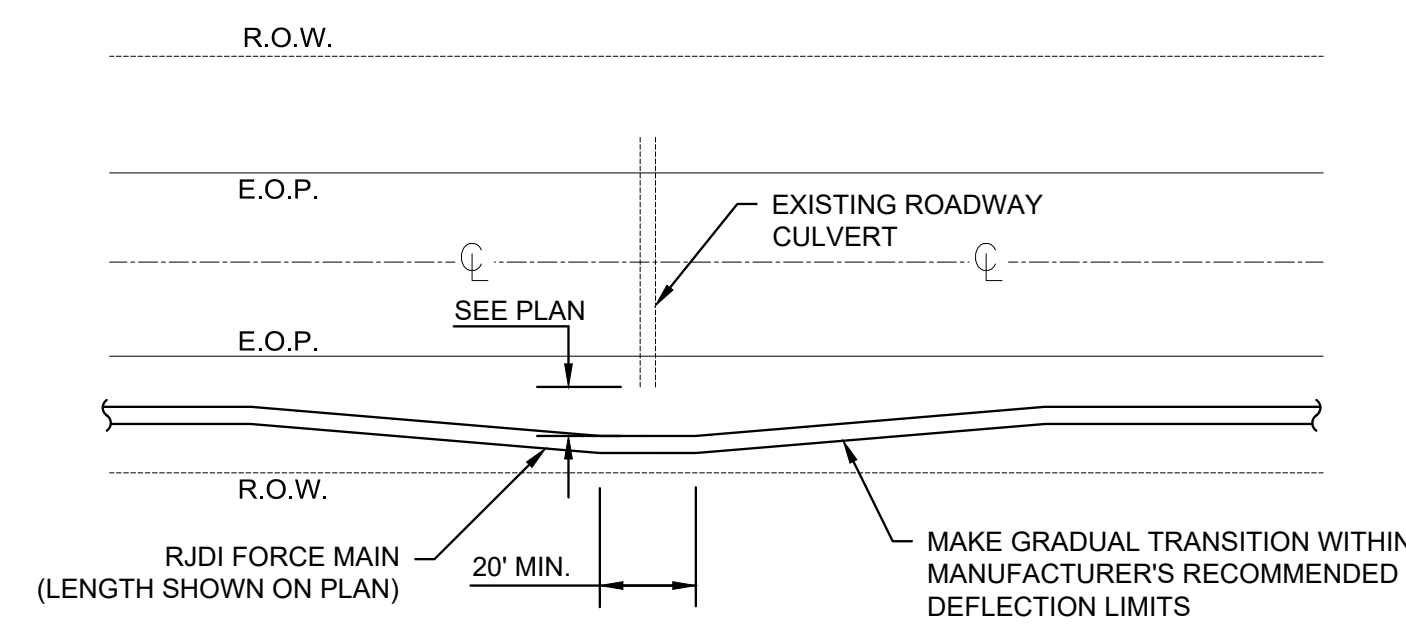


PROJECT DETAILS

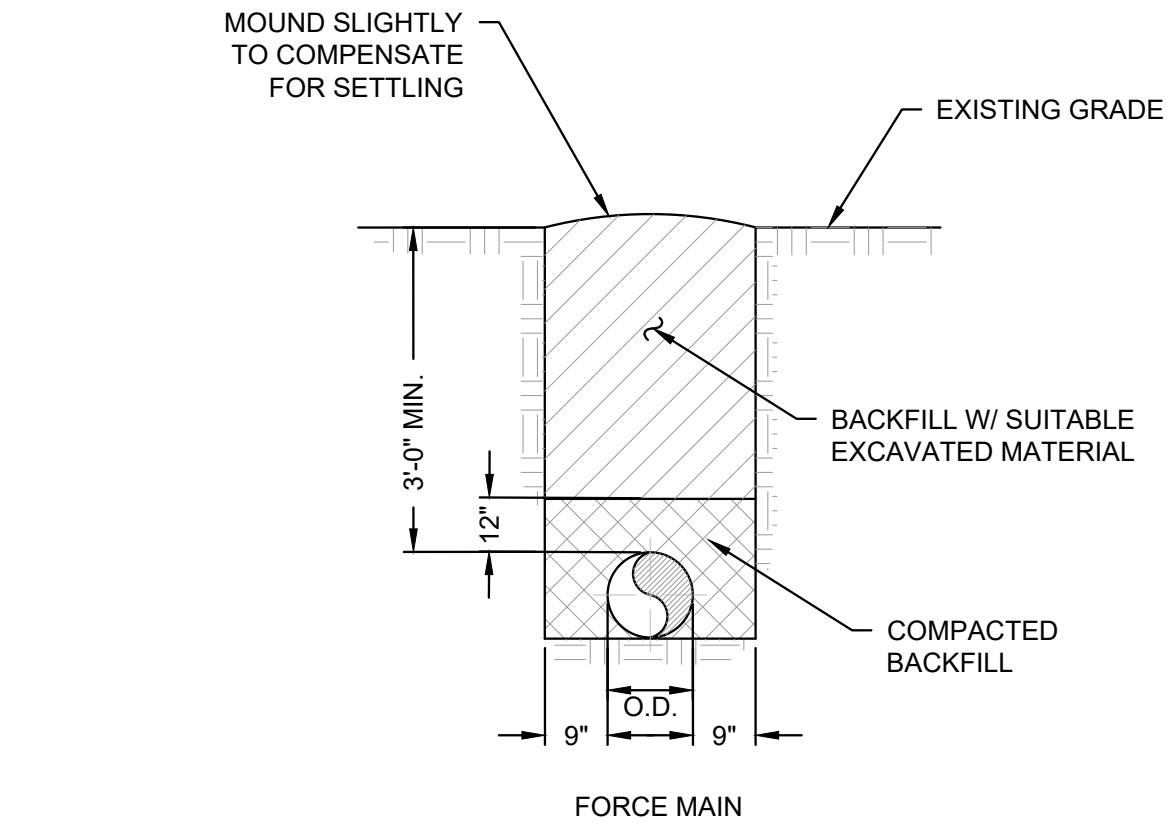
C-901



8 TYPICAL CULVERT CROSSING USING PIPE DEFLECTION
C-902 SCALE: N.T.S



9 TYPICAL PLAN FORCE MAIN OFFSET AT CULVERTS
C-902 SCALE: N.T.S



10 EARTH TRENCH DETAIL
C-902 SCALE: N.T.S

BEARING AREA OF THRUST BLOCKS IN SQUARE FEET (HORIZONTAL BENDS)

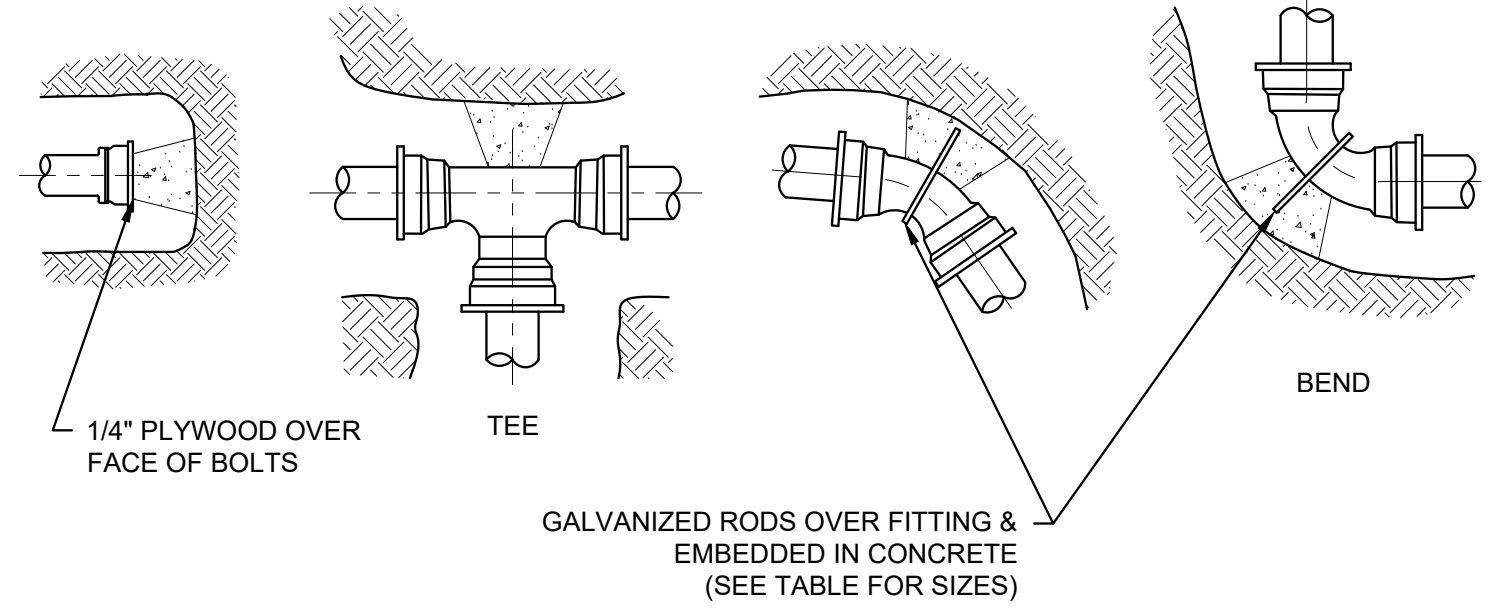
FITTING SIZE	TEE, WYE PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		BEND ANGLE		
			A1	A2°	45°	22 1/2°	11 1/4°
4	1.0	1.4	1.9	1.4	1.0	-	-
6	2.1	3.0	4.3	3.0	1.6	1.0	-
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

VOLUME OF THRUST BLOCK IN CUBIC YARDS VERTICAL BENDS

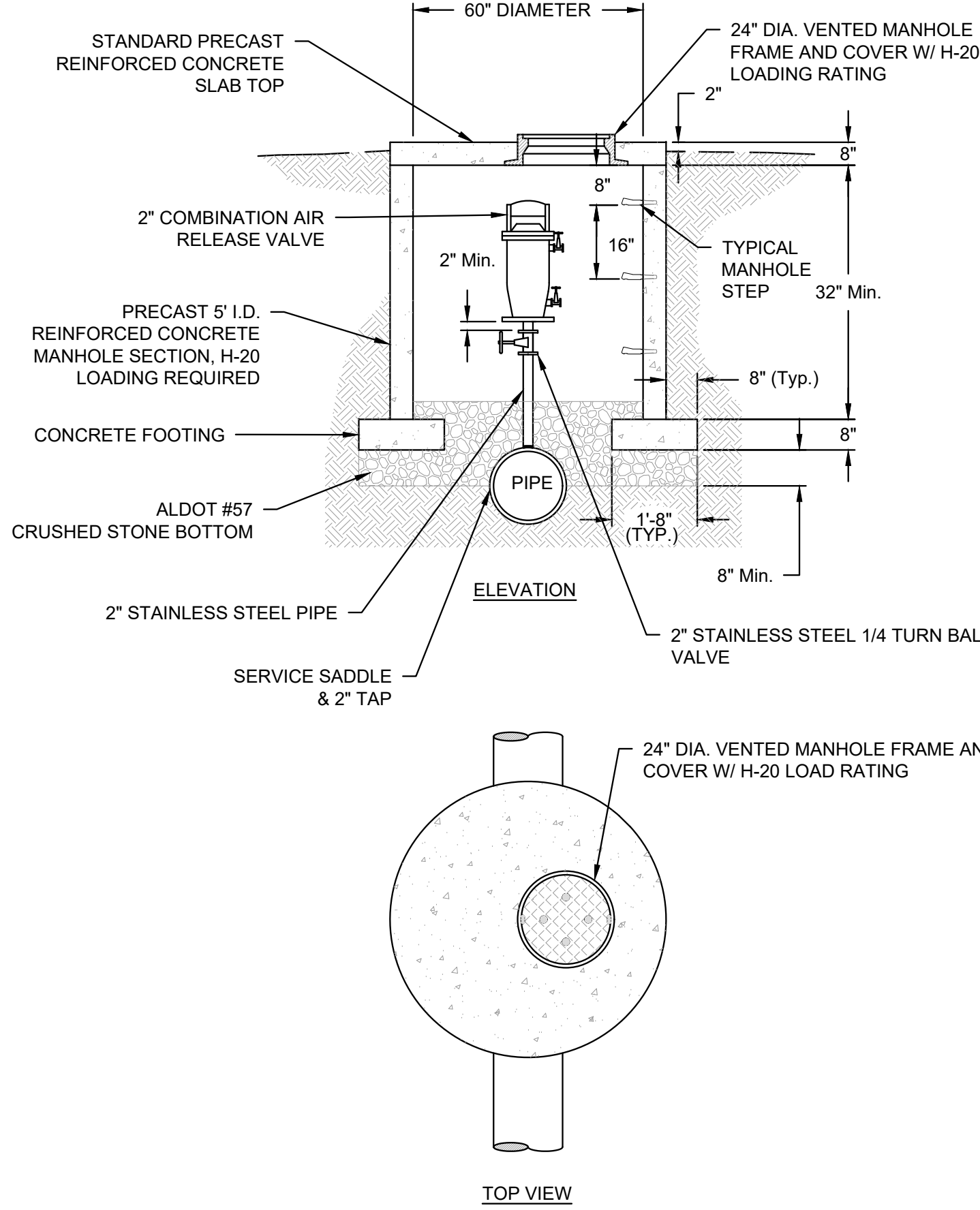
FITTING SIZE	BEND ANGLE		
	45°	22 1/2°	11 1/4°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.5	5.6	2.3

FITTING SIZE	EMBEDMENT
12" AND LESS	30"
14" - 15"	36"

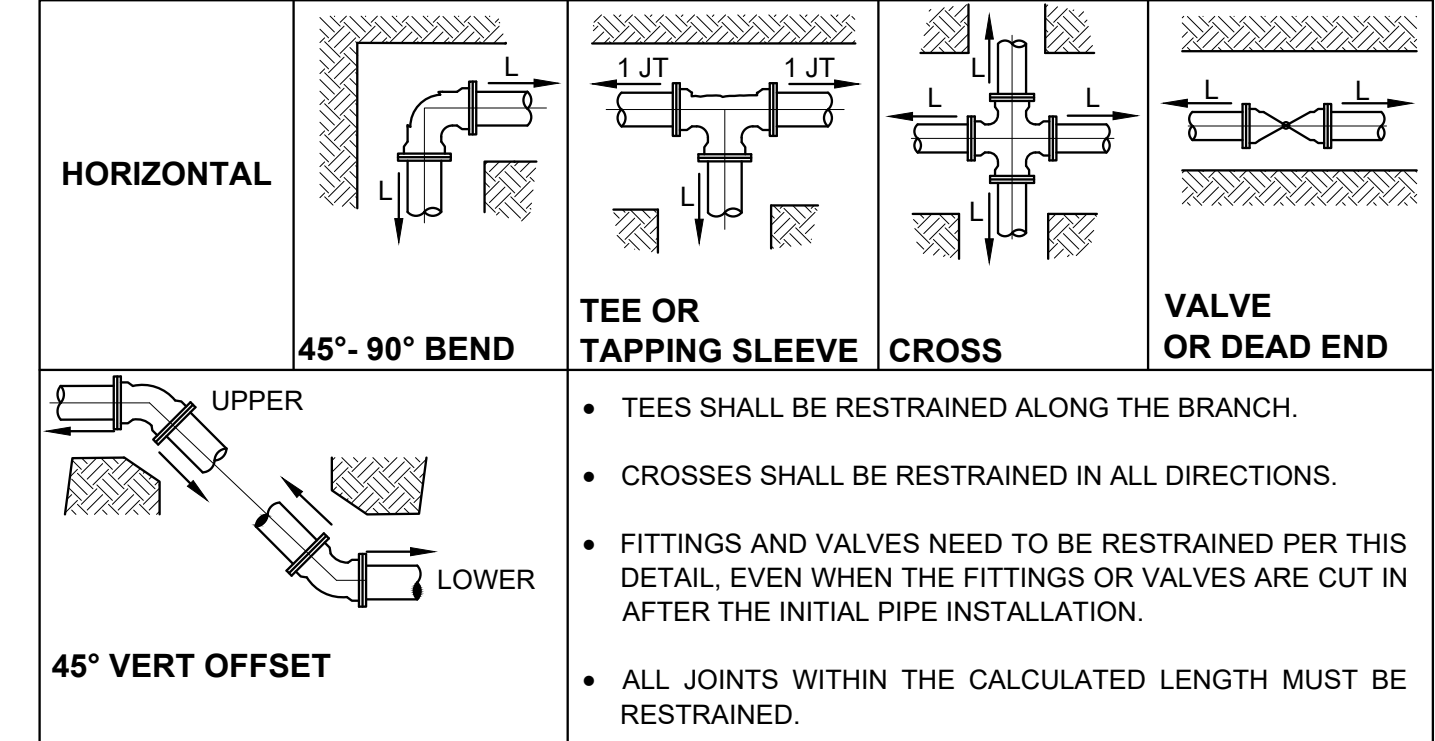
NOTE: ALL CONCRETE COLLARS, THRUST BLOCK, ETC., SHALL BE FORMED AND POURED IN PLACE. CONCRETE SHALL MEET REQUIREMENTS OF CLASS C 2500 PSI CONCRETE IN ACCORDANCE WITH GENERAL SPECIFICATION FOR REINFORCED CONCRETE.



11 THRUST BLOCK DETAIL
C-902 SCALE: N.T.S



12 COMBINATION AIR RELEASE (SEWER)
C-902 SCALE: N.T.S



DIAMETER (INCHES)	HORIZONTAL PIPE (FEET)			45° VERTICAL OFFSET (FEET)			
	45°	90°	TEES OR CROSS	VALVES & DEAD ENDS	REDUCERS LARGE SIDE	UPPER	LOWER
8	10	23	19	31	13	19	7
10	12	27	25	37	13	22	8
12	14	32	32	44	13	27	10
14	16	37	38	51	13	30	11
16	18	42	45	57	13	34	12

THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH THRUST RESTRAINT CALCULATOR V7.1.3 BY EBAA IRON WITH THE FOLLOWING ASSUMPTIONS:

- SOIL CONDITIONS: LEAN CLAYS (CL)
- LAYING CONDITION: 3, LOOSE SOIL BEDDING, BACKFILL LIGHTLY CONSOLIDATED TO TOP OF THE PIPE.
- MINIMUM COVER: 3.0 FT
- SAFETY FACTOR: 1.5

IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY ENGINEER.

13 RESTRAINED JOINT LENGTHS
C-902 SCALE: N.T.S



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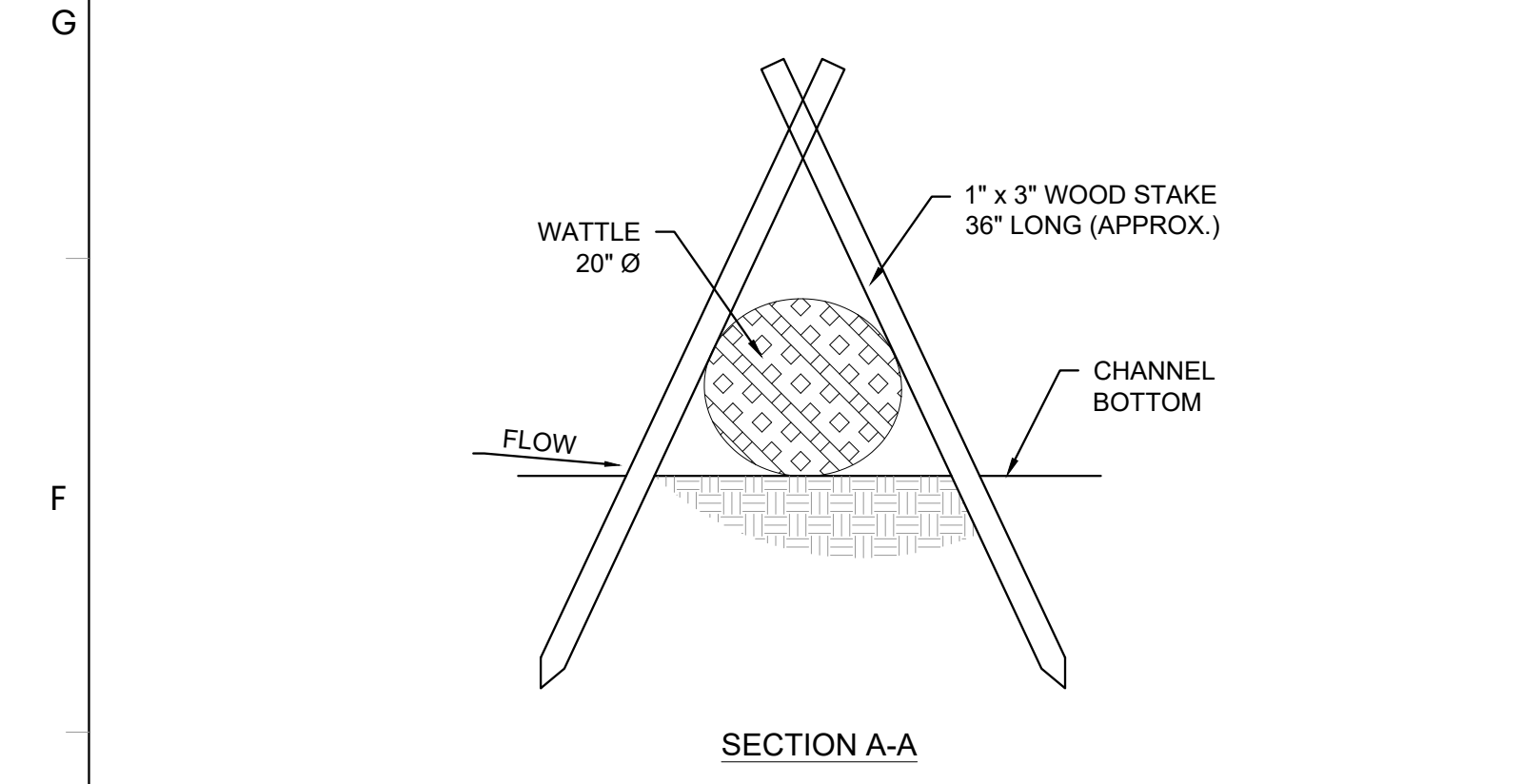
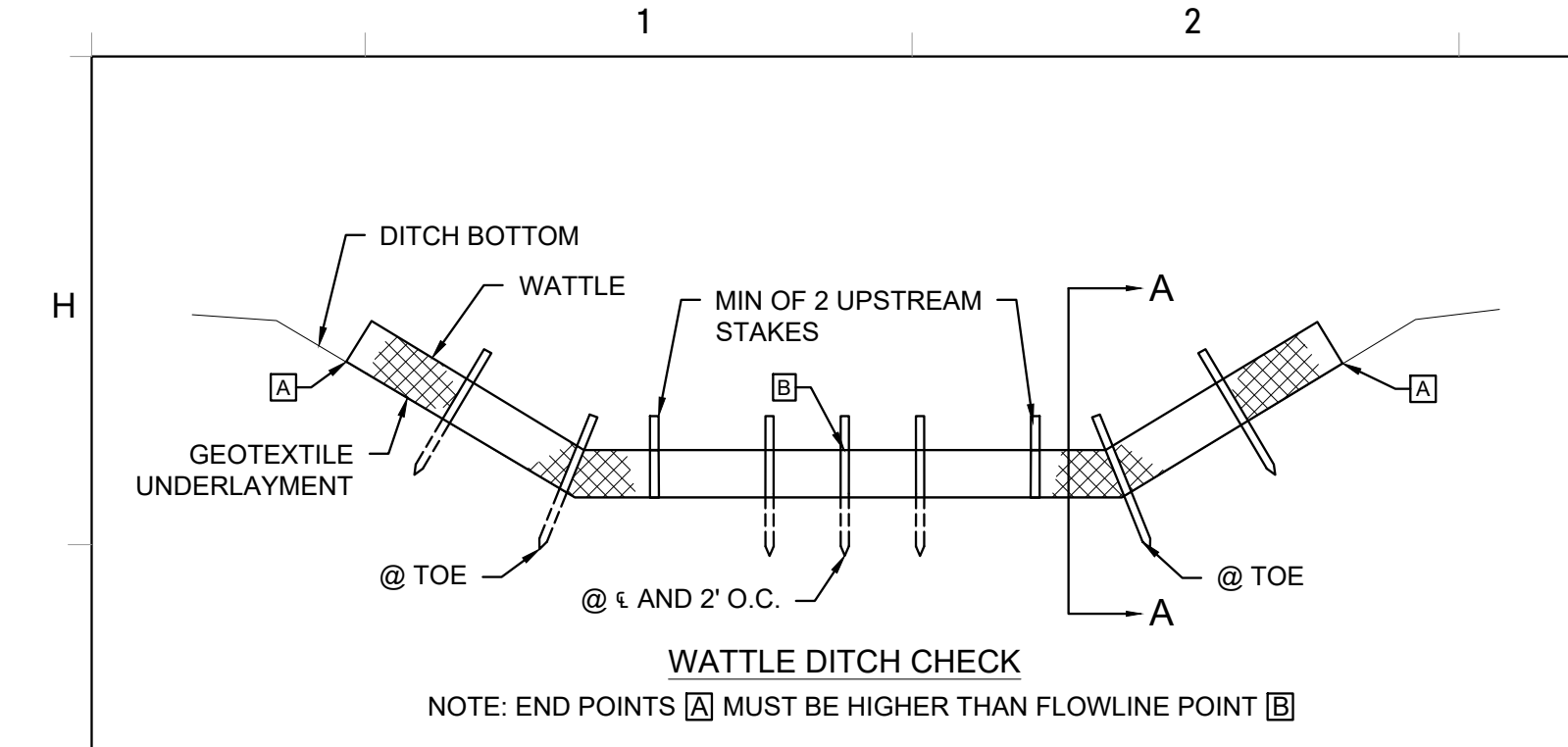
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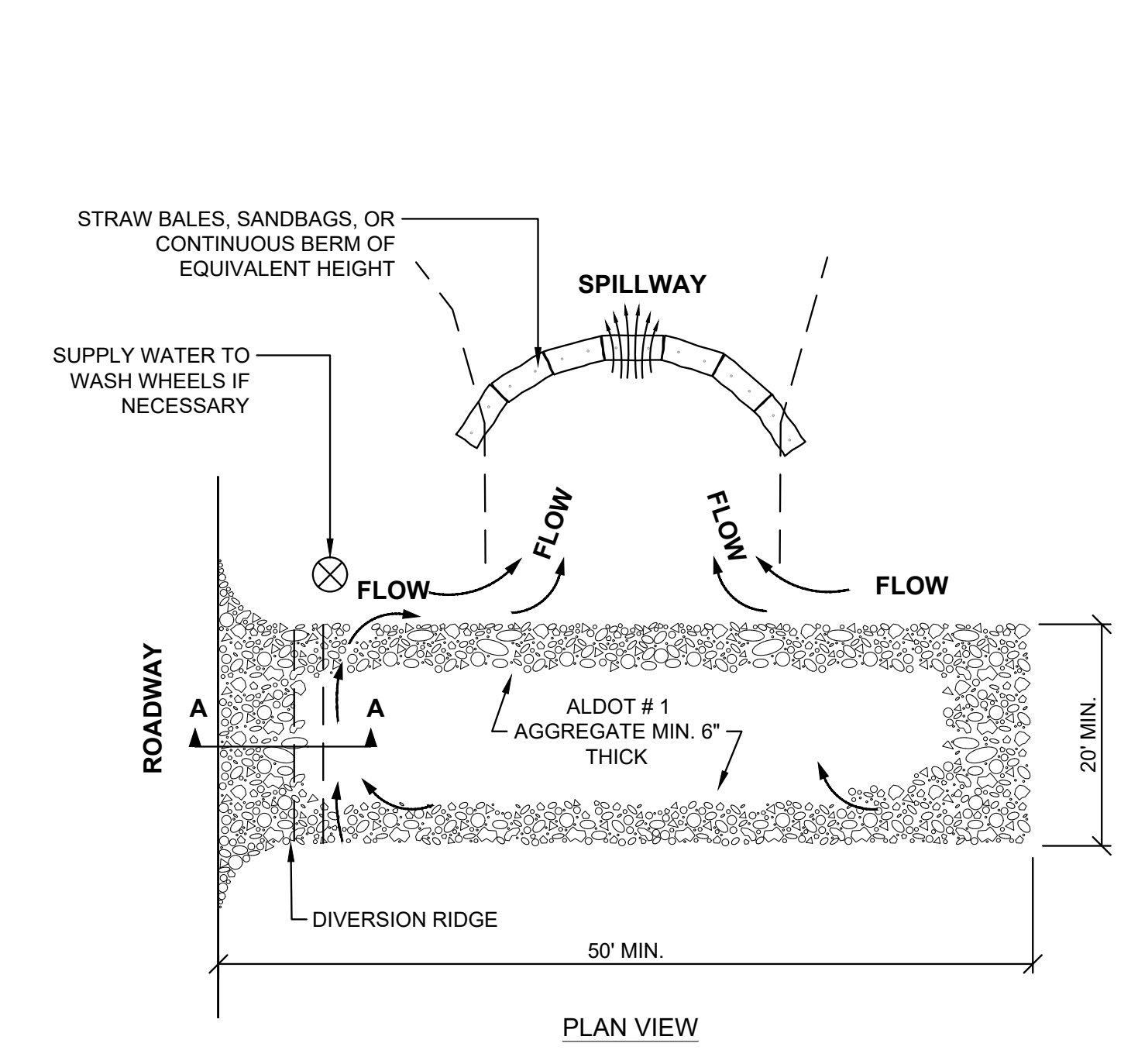
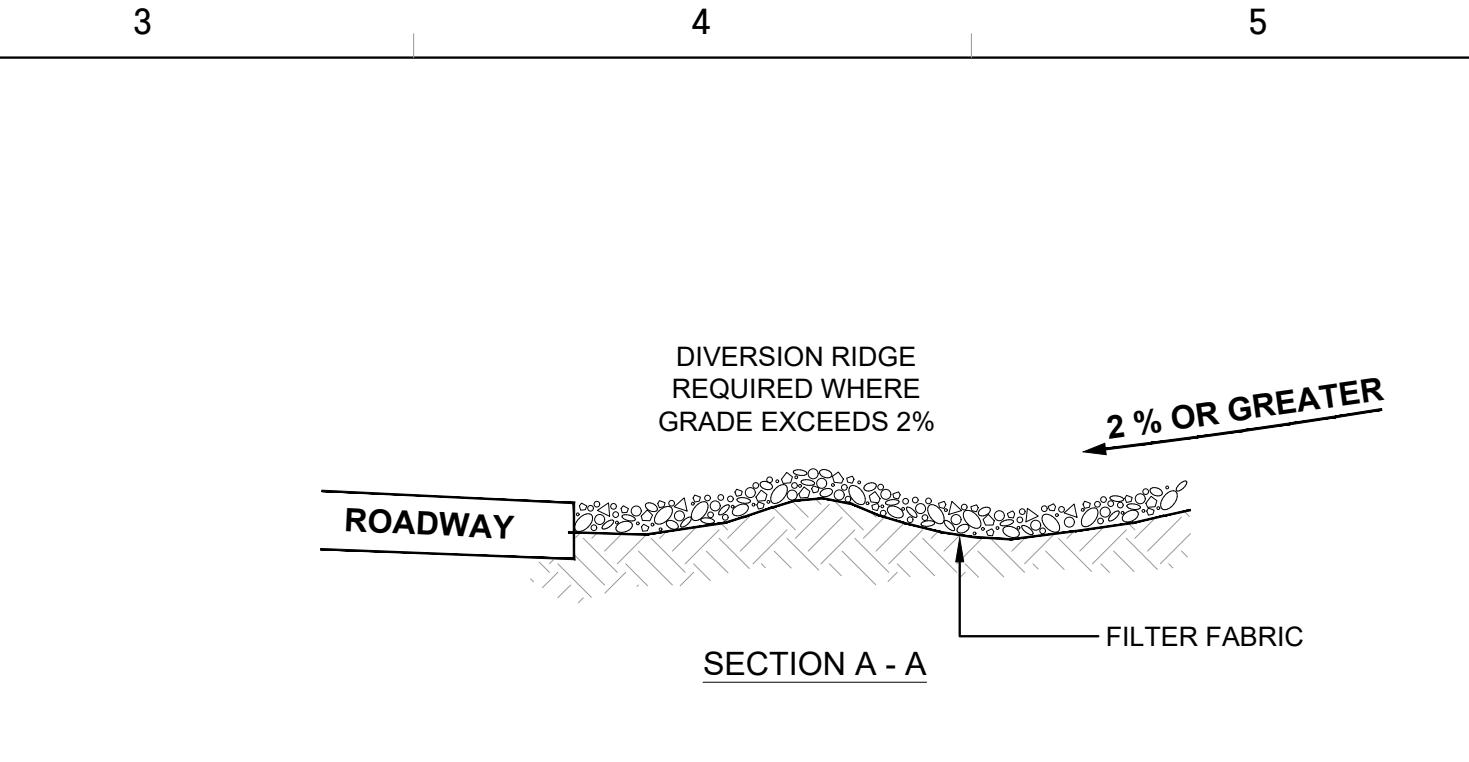
PROJECT DETAILS
C-902



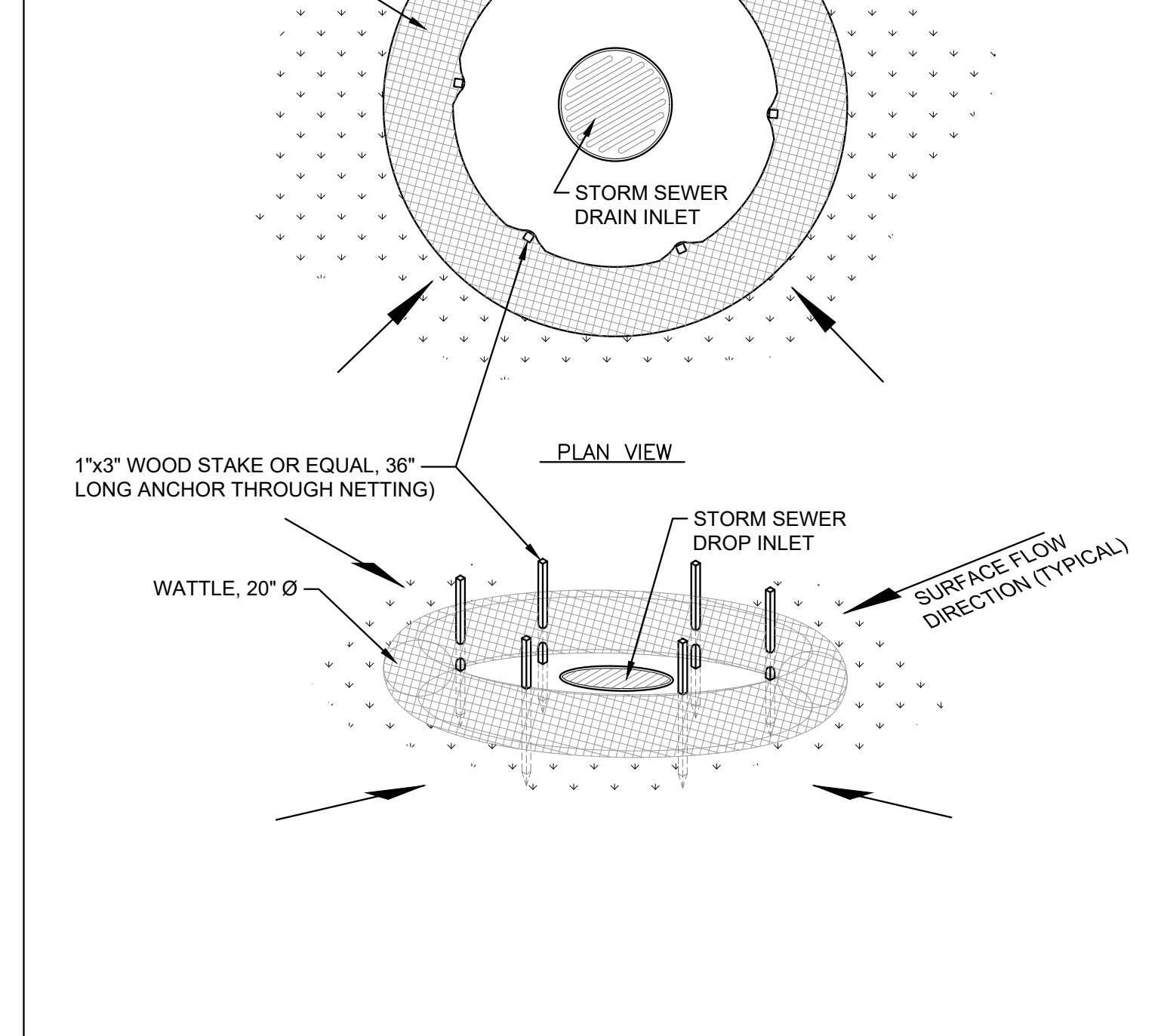
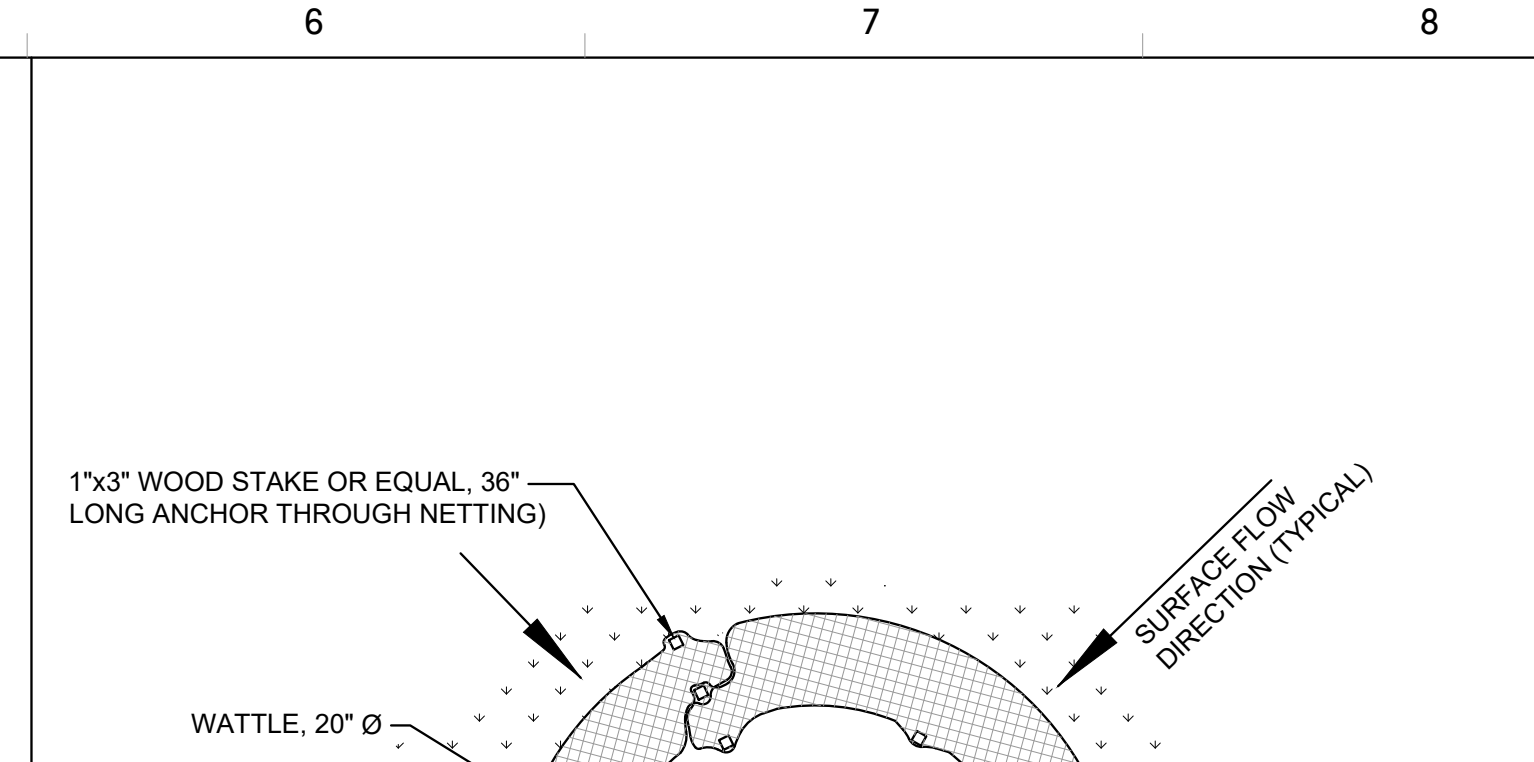
- NOTES:**
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON PLANS.
 2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. SPIKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
 3. WATTLES SHOULD NOT BE USED IN HARD BOTTOMS CHANNELS.
 4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES SPACED 10 INCHES APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.
 5. THE COST OF THE WOOD STAKES OR EQUIVALENT SHALL BE INCLUDED IN THE COST OF THE WATTLES.

- WATTLE DITCH CHECK SELECTION GUIDELINES:**
1. WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.

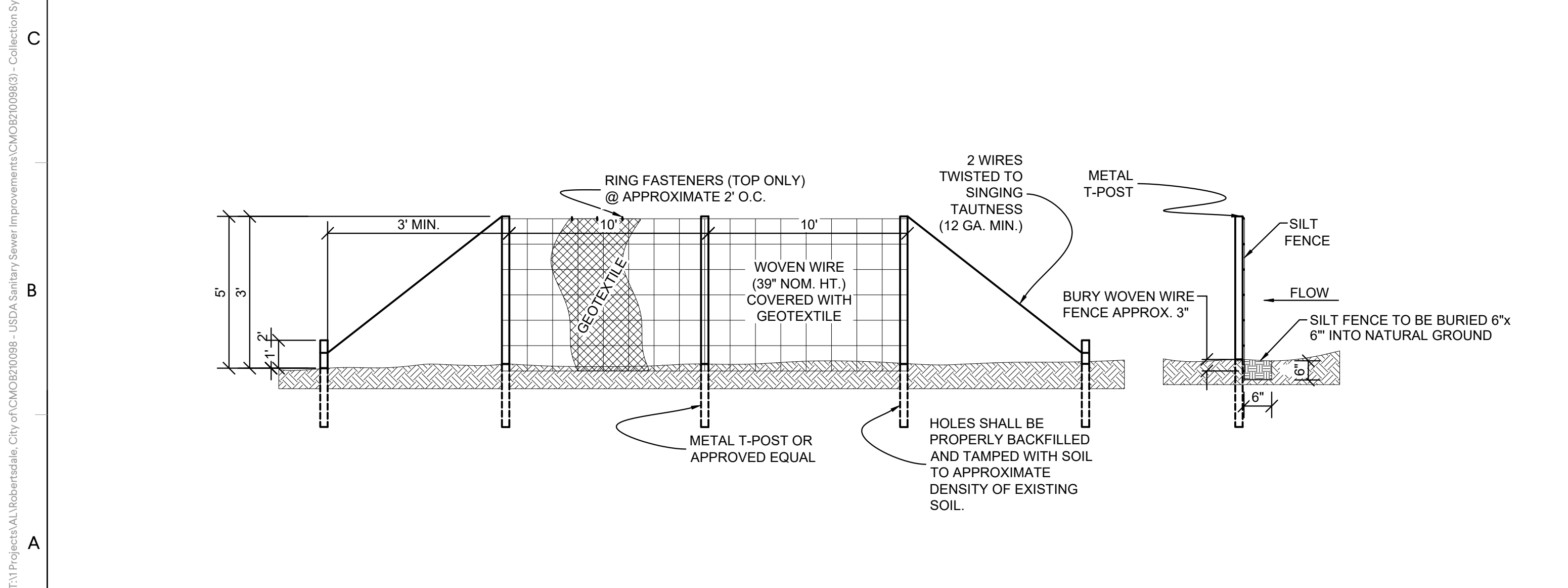
14 WATTLE DITCH CHECK
C-903 SCALE: N.T.S



15 TEMPORARY CONSTRUCTION ENTRANCE & EXIT PAD
C-903 SCALE: N.T.S



16 DRAIN INLET PROTECTION DETAIL
C-903 SCALE: N.T.S



17 TYPE "A" SILT FENCE & INSTALL
C-903 SCALE: N.T.S

- SILT FENCE NOTES**
1. TYPE "A" SILT FENCE SHALL BE USED IN AREAS OF CONCENTRATED FLOW.
 2. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
 3. SILT FENCE SHOULD BE PLACED WELL INSIDE PROPERTY BOUNDARY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
 4. WHEREVER POSSIBLE, SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
 5. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
 6. RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
 7. IF WOOD POSTS ARE USED, STAPLES FOR SECURING WOVEN WIRE TO POSTS SHALL BE NINE (9) GAUGE, GALVANIZED, 1 1/2" LONG, FIVE (5) PER POST @ APPROXIMATELY 1'-0" ON CENTER.
 8. WOVEN WIRE TO BE 12 1/2 GAUGE (MINIMUM).
 9. SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT ALDOT CONSTRUCTION SPECIFICATIONS.

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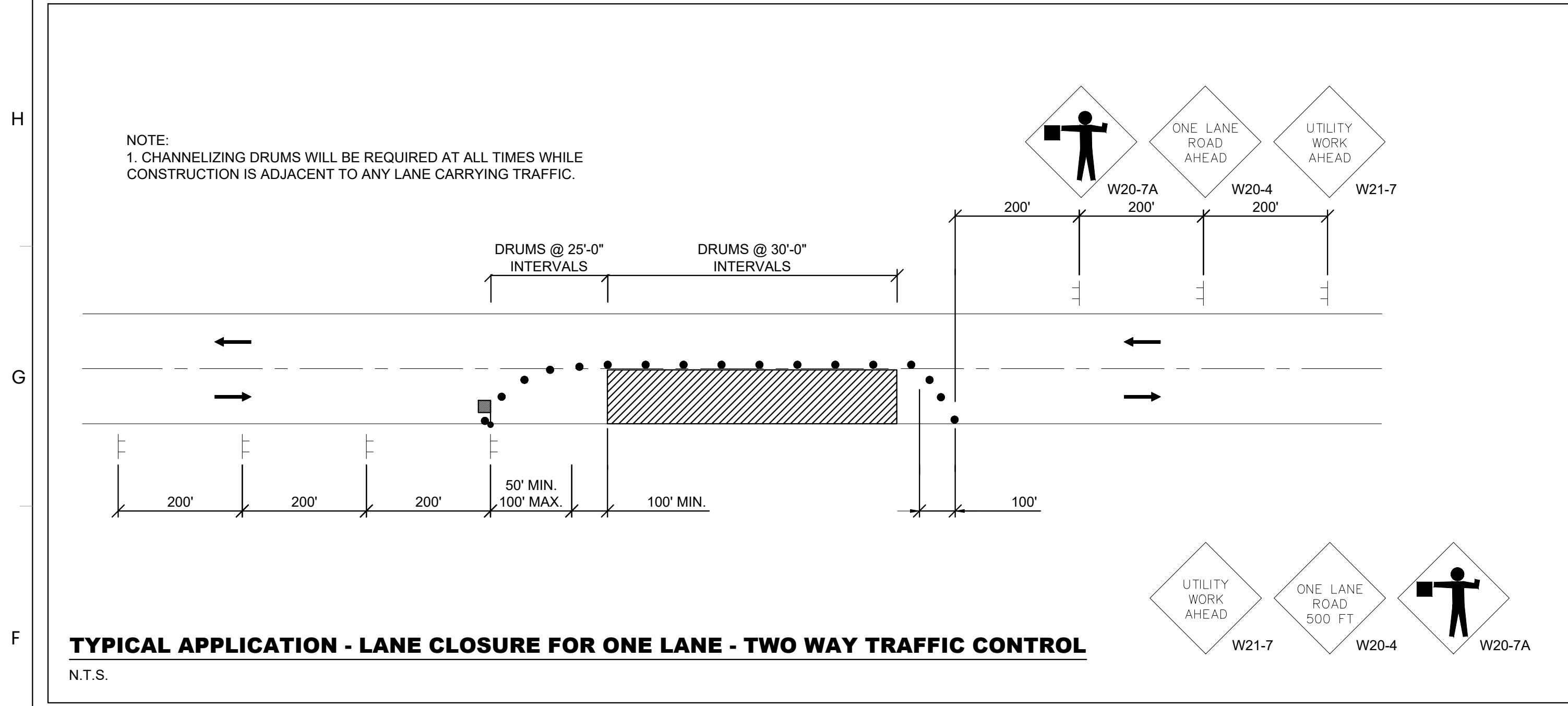
USDA FORCE MAIN UPGRADES
ROBERTSDALE, ALABAMA

GMC # CMOB210098(3)

ALABAMA PROFESSIONAL ENGINEER
STEPHEN WALKER
No. 35222
4/03/2026

PROJECT DETAILS

C-903

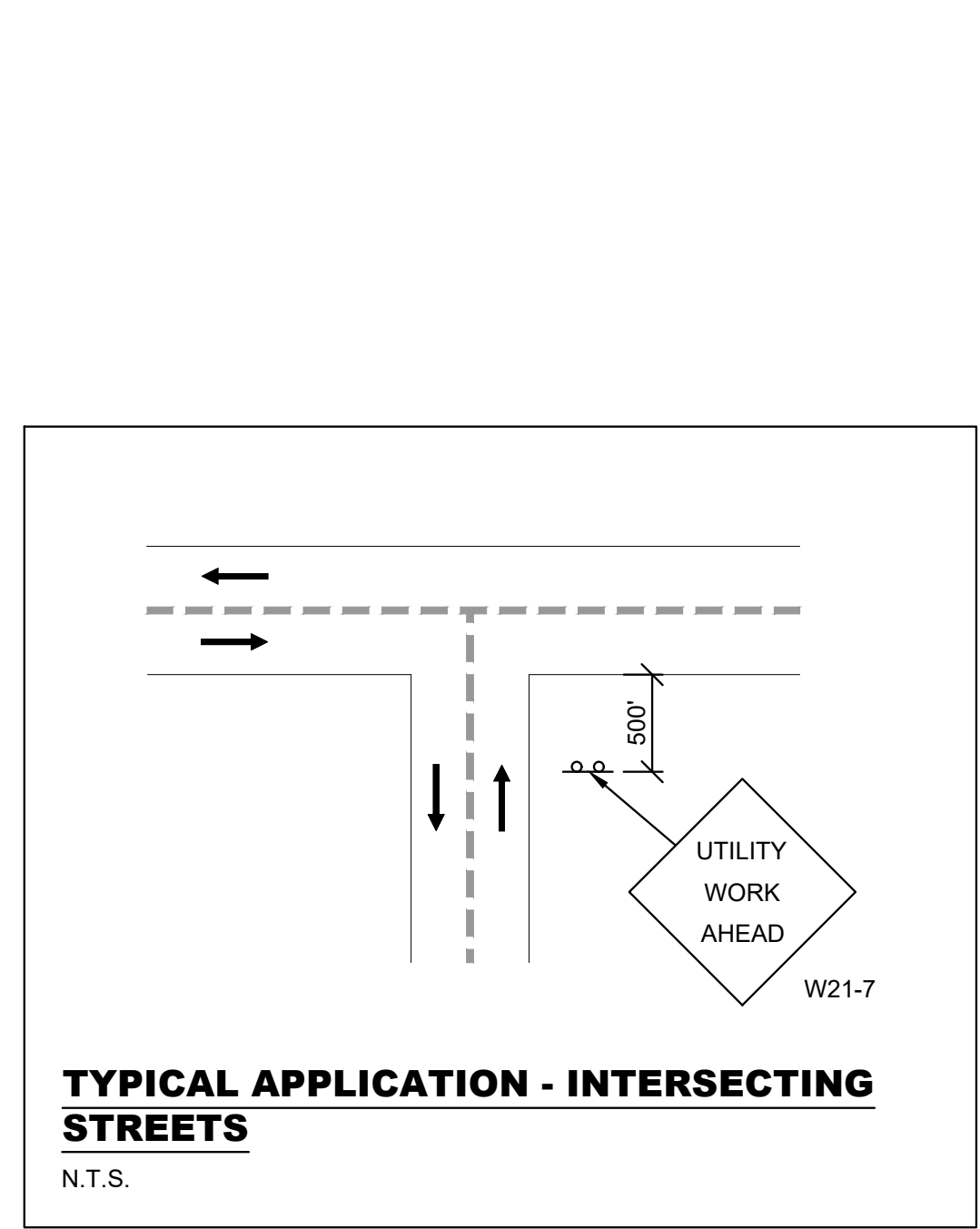
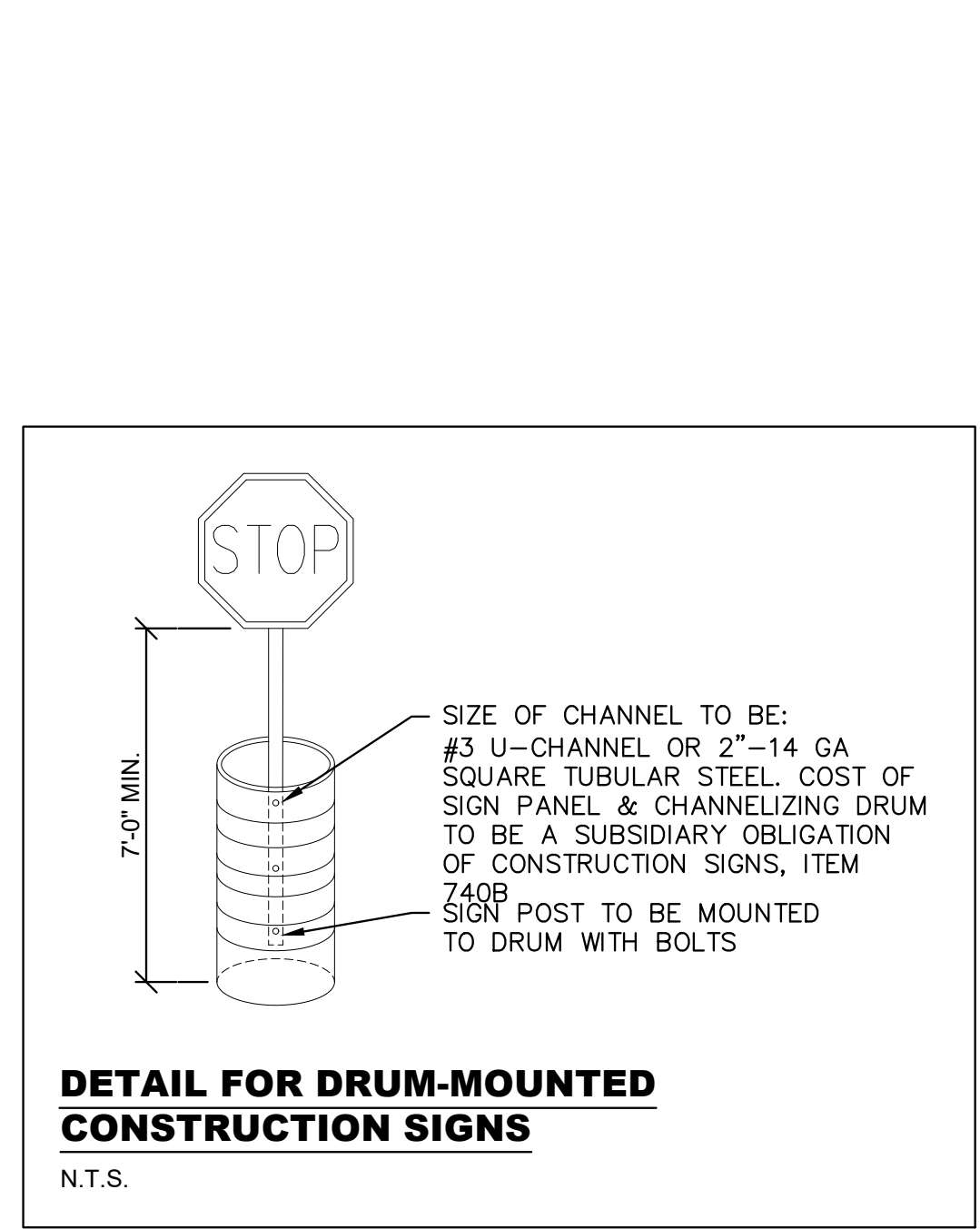
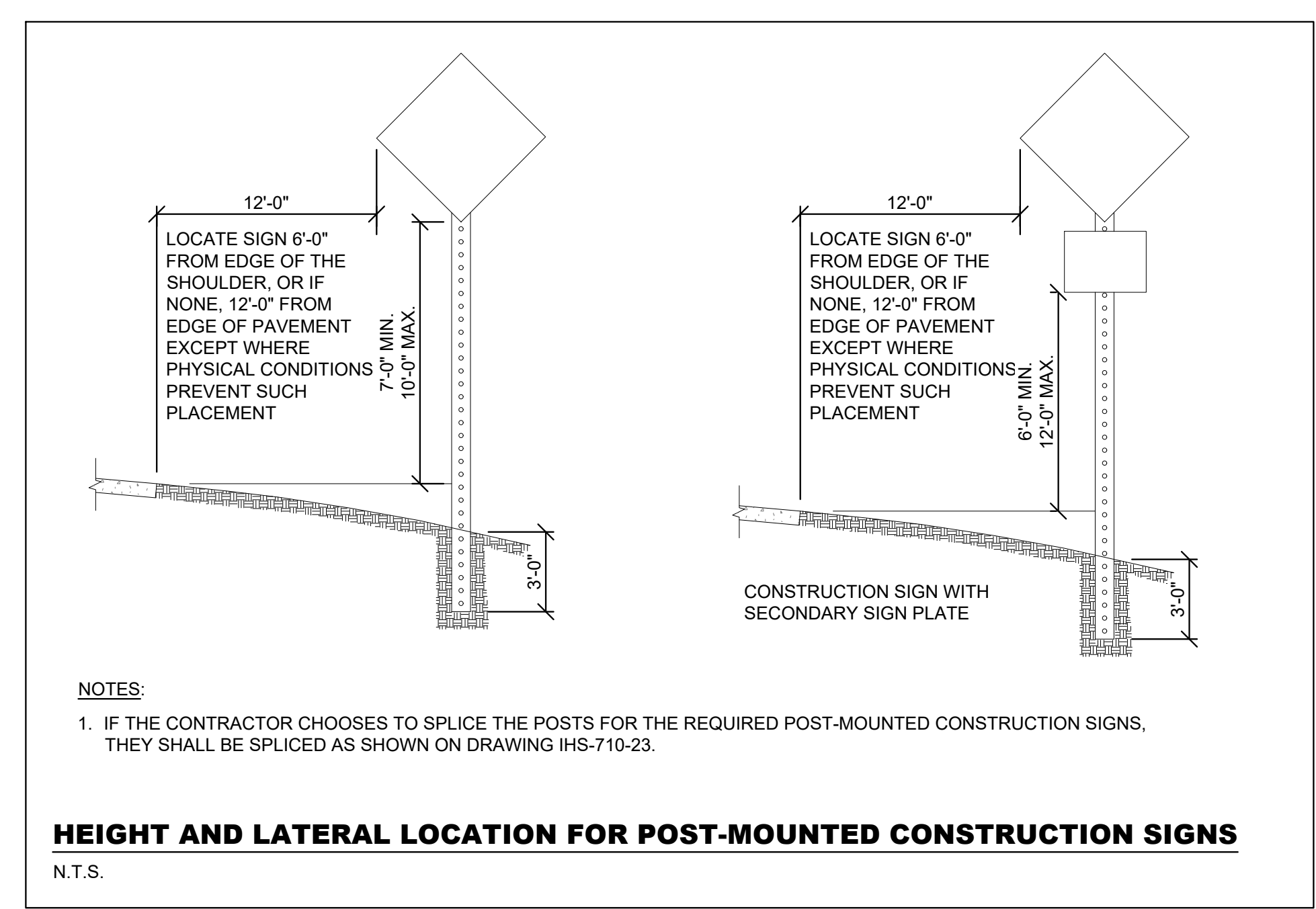
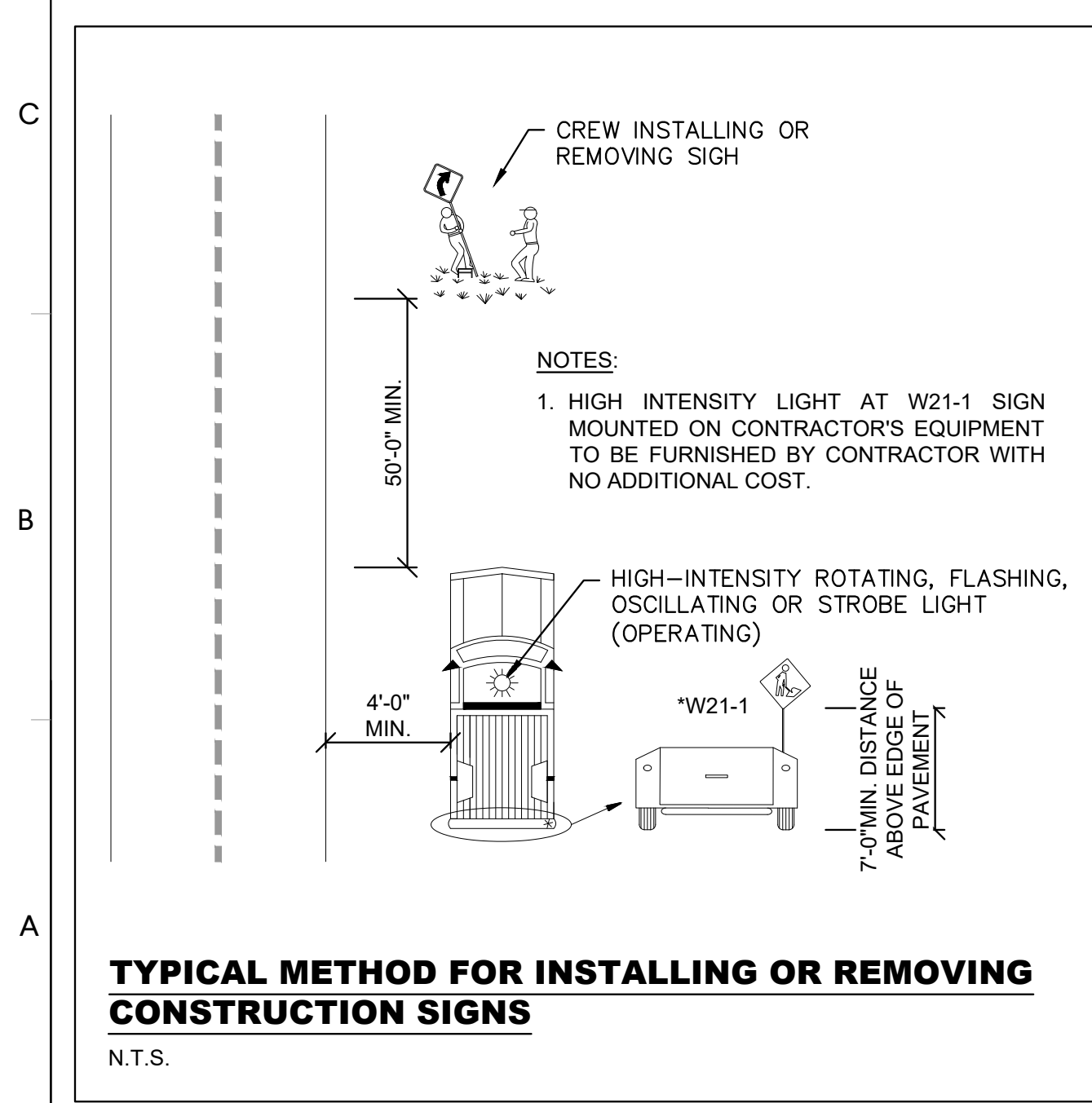
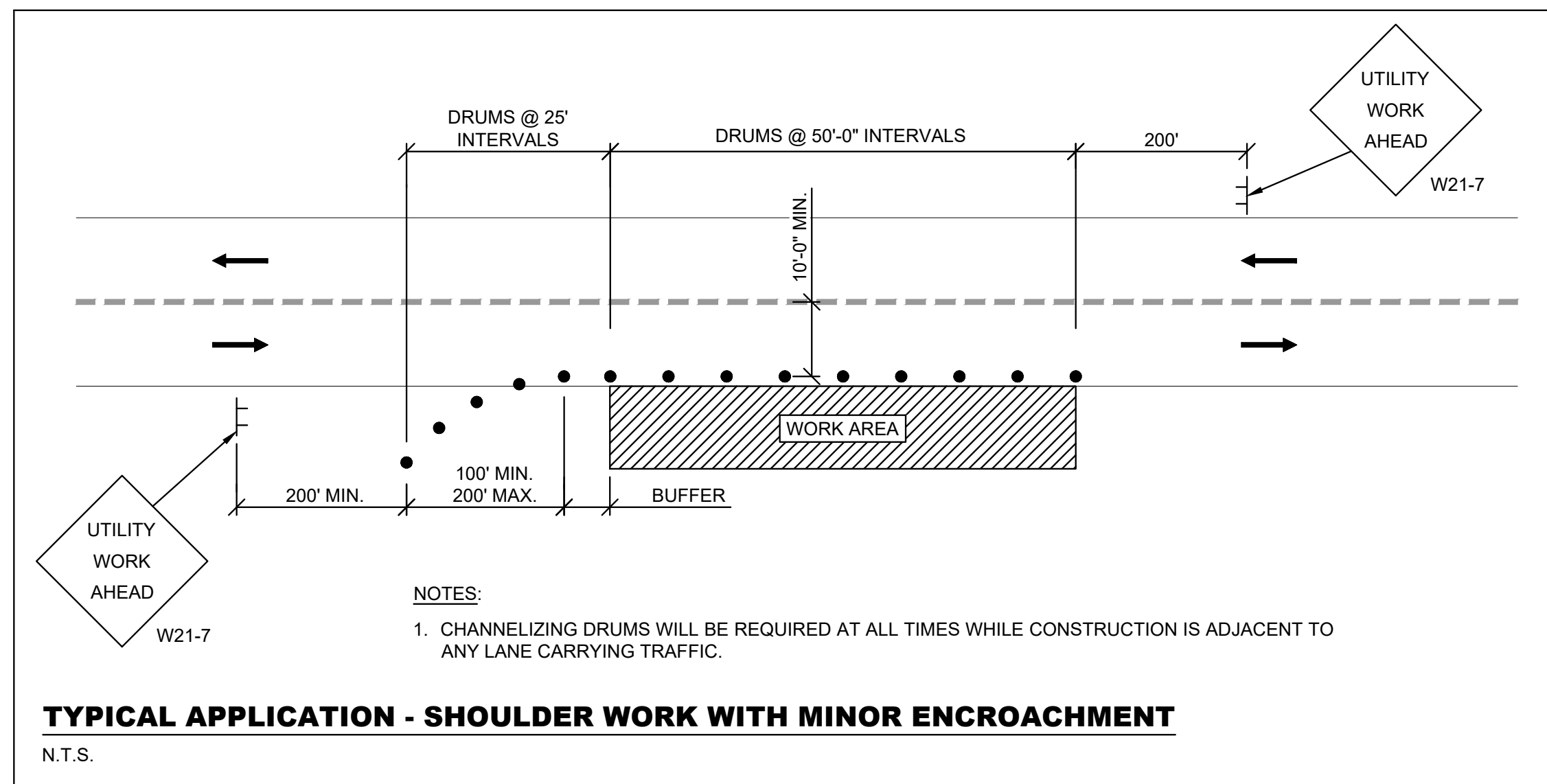
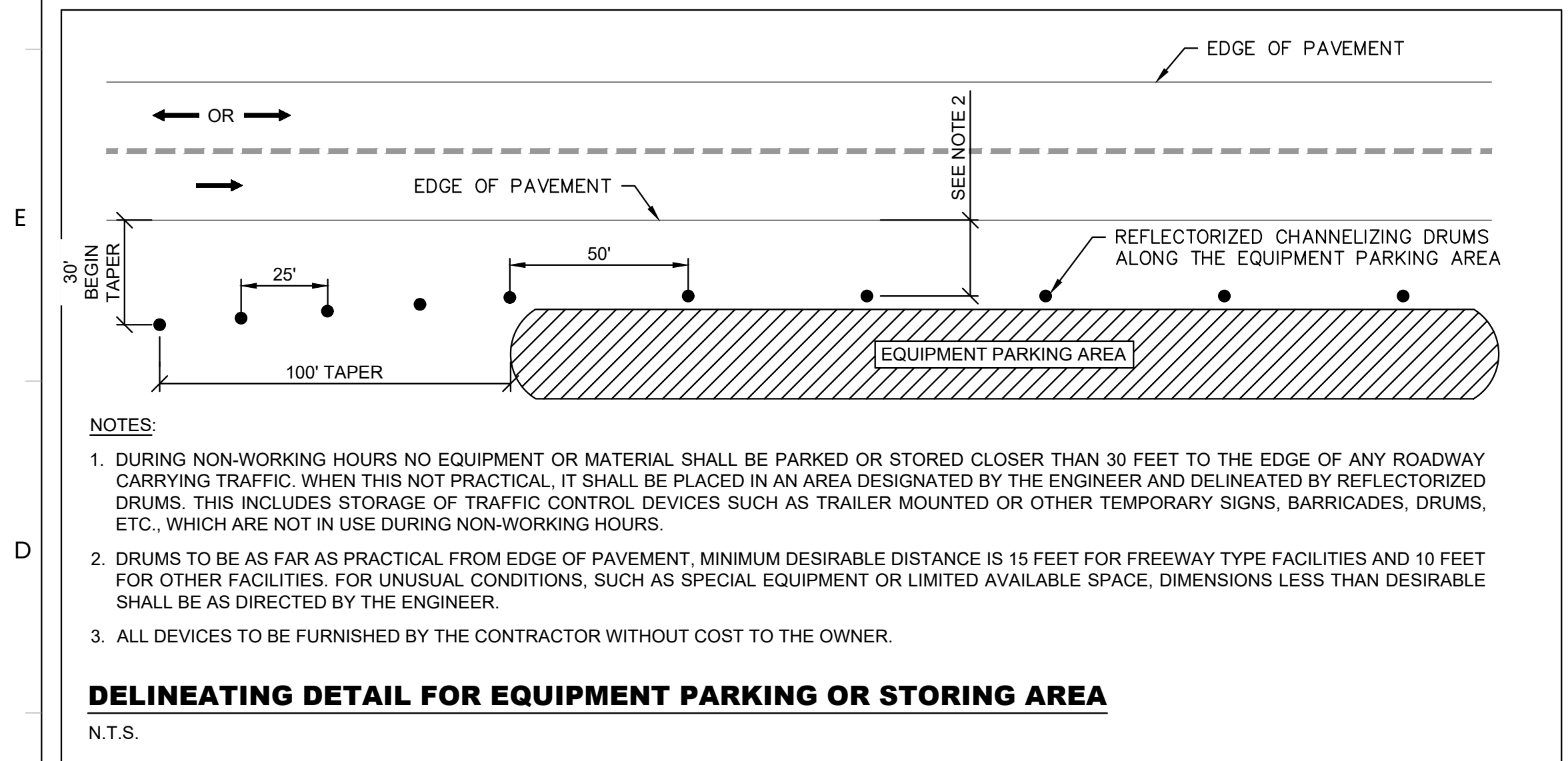


LEGEND

- ⊕ SIGN, POST MOUNT
- ⊕ SIGN, TEMPORARY MOUNT
- ▲ CONE
- ▨ WORK AREA
- CHANNELIZING DRUM
- ▤ PORTABLE SEQUENTIAL ARROW & CHEVRON SIGN UNIT

CONSTRUCTION SIGNS

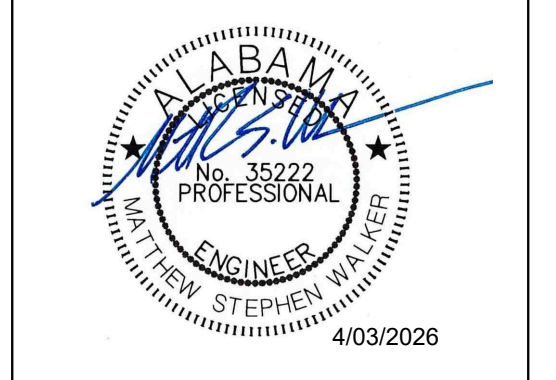
SIGN	DESCRIPTION	SIZE	MOUNT	STANDARD DWG. NO.
W4-2	LANE MERGE	48"x48"	TEMP	SHS-13
W20-5	RIGHT LANE CLOSED	48"x48"	TEMP	SHS-29
W21-7	UTILITY WORK AHEAD	48"x48"	TEMP	SHS-30



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PROJECT DETAILS
C-904