

FAYETTE COUNTY SILVER LEAF DRIVE CULVERT REPLACEMENT PROJECT PROJECT NUMBER 17SAN



1899 POWERS FERRY ROAD SE, SUITE 400
ATLANTA, GEORGIA 30339
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NOT TO SCALE

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PROJECT LOCATION:
175 SILVER LEAF DRIVE
FAYETTEVILLE, GA 30214

CLIENT INFORMATION:
FAYETTE COUNTY
140 STONEWALL AVE. W, SUITE 203
FAYETTEVILLE, GA 30214

Tt PROJECT No.:
200-01297-18004

CLIENT PROJECT No.:
17SAN

PROJECT DESCRIPTION / NOTES:
REFERENCE DATUM: NAD83 GEORGIA STATE PLANE, WEST ZONE, US FOOT

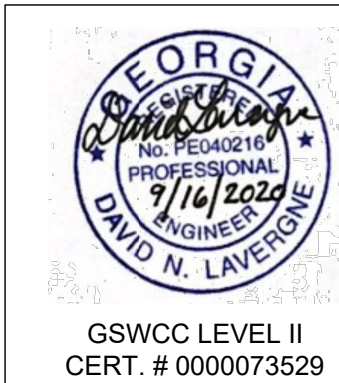
THE PROJECT SHALL CONSIST OF THE DEMOLITION OF THE EXISTING CMP CULVERT UNDER SILVER LEAF DRIVE AND THE INSTALLATION OF 84 LINEAR FEET OF 6' X 4' CONCRETE BOX CULVERT ALONG WITH THE RELOCATION OF THE EXISTING UTILITIES IN THE AREA.

ISSUED:

30% SUBMITTAL - 02/16/18
60% SUBMITTAL - 07/13/18
90% SUBMITTAL - 10/15/18
100% SUBMITTAL - 08/14/19
ISSUED FOR CONSTRUCTION SUBMITTAL - 03/12/20
ISSUED FOR CONSTRUCTION SUBMITTAL - 09/16/20



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GSWCC LEVEL II
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LIST OF STANDARD ABBREVIATIONS

A AAP AARV AAV AB ABAN ABRSV ABS ABV AC ACCOMP ACP ADD ADH AFF AFG AFS AHD AL ALT AMP AMT APRX ARCH AS ASPH ASSY AVE A/C AVV B BAF BCV BF BFV BHP BI BITUM B/L BLDG BLK BM BOC BOT BP BRG BSP BV BW BWW C CAP CA CAV CB CCC CE CFM CFS CI CIP CISP CJ CKT CL CL2 CLF CLR CLVT CMP CMPA CMU CND CNR CO CO2 COAG COL COM CONC CONN CONSTR CONT CONTR COORD CJ CP CPA CPLG CPVC CR CS CSG CTV CY CYL C&G C/C D DAT DBL DC DEMO DEPT DESC DET DF DIA DIFF DIM DIP DISCH DIR DMH DN DR DV DW DWG DWV	ALARM ANNUNCIATOR PANEL AUTOMATIC AIR RELEASE VALVE AUTOMATIC AIR VENT ANCHOR BOLT ABANDON(ED) ABRASIVE ACRYLONITRILE BUTADIENE STYRENE ABOVE ALTERNATING CURRENT ASPHALT-COATED CORRUGATED METAL PIPE ASBESTOS CEMENT PIPE ADDENDUM ADHESIVE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ABOVE FINISHED SLAB AHEAD ALUMINUM ALTERNATE AMPERE AMOUNT APPROXIMATE(LY) ARCHITECT(URAL) ALLUM SOLUTION ASPHALT ASSEMBLY AVENUE AIR CONDITIONING AIR/VACUUM AIR VALVE BAFFLE BALL CHECK VALVE BLIND FLANGE BUTTERFLY VALVE BRAKE HORSEPOWER BLACK IRON BITUMINOUS OR BITUMASTIC BASELINE BUILDING BLOCK BENCH MARK BACK OF CURB BOTTOM BASE PLATE BEARING BLACK STEEL PIPE BALL VALVE BOTH WAYS BACKWASH WATER CAPACITY COMPRESSED AIR COMBINATION AIR VALVE CATCH BASIN CHLORINE CONTACT CHAMBER CHLORINATED EFFLUENT CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHECK VALVE CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTER LINE CHLORINE GAS CHAIN LINK FENCE CLEAR OR CLEARANCE CULVERT CORRUGATED METAL PIPE CORRUGATED METAL PIPE ARCH CONCRETE MASONRY UNIT CONDUIT CORNER CLEAN OUT CARBON DIOXIDE COAGULANT COLUMN COMMON CONCRETE CONNECTION CONSTRUCT(ION) CONTINUOUS CONTRACT(OR) COORDINATE CORNER CONCRETE PIPE CONCRETE PIPE ARCH COUPLING CHLORINATED POLYVINYL CHLORIDE CONCENTRIC REDUCER CASING CABLE TELEVISION CUBIC YARD CYLINDER CURB AND GUTTER CENTER TO CENTER DATUM DOUBLE DIRECT CURRENT DEMOLITION DEPARTMENT DESCRIPTION DETAIL DIESEL FUEL DUCTILE IRON DIAMETER DIFFUSER DIMENSION DUCTILE IRON PIPE DISCHARGE DIRECTION DROP MANHOLE DOWN DRAIN DIAPHRAGM VALVE DRIVEWAY DRAWING DRAIN, WASTE, AND VENT	E EA ECC EFF EFL EL ELAST ELEC EMER EMC ENGR EP EPDM EPRF EQUIP ER ESTM EST EW EXC EXP EXST EXST GR EXT EXTN F FAB FCA FB FCV FD FDN FE FHY FIG FIN FIN FLR FIN GR FL FLG FLW FLTR FM FPM FPS FRP FT FUT FV FW FWP F/F G GA GAL GALV GIP GJ GND GPD GPH GPM GPS GR GRTG GS GSP GSR GST GT GV H HB HD HDPE HDR HFA HGR HGT HNDRL HOA HORIZ HP HPA HR HVAC HWL HWY HZ I ID IN INF INT INTR INV IP IPS IR IW J JB JT K K KPL KV KVA KW KWH L L LAB LAM LATL LAV	EAST EACH ECCENTRIC EACH FACE EFFLUENT EASEMENT LINE ELEVATION ELASTOMERIC ELECTRICAL EMERGENCY ENCASE(MENT) ENGINEER EDGE OF PAVEMENT ETHYLENE PROPYLENE DIENE MONOMER EXPLOSION PROOF EQUIPMENT ECCENTRIC REDUCER EASEMENT ESTIMATE(D) EACH WAY EXCAVATE EXPANSION EXISTING EXISTING GRADE EXTERIOR EXTENSION FABRICATE(D) FLANGED COUPLING ADAPTER FLAT BAR FLOW-CONTROL VALVE FLOOR DRAIN FOUNDATION FILTER(ED) EFFLUENT FIRE HYDRANT FIGURE FINISH(ED) FINISH FLOOR FINISH GRADE FLUORIDE FLANGE(D) FLOW LINE FILTER FORCE MAIN FEET PER MINUTE FEET PER SECOND FIBERGLASS REINFORCED PLASTIC FOOT OR FEET FUTURE FOOT VALVE FINISHED WATER FACTORY WIRED PANEL FACE TO FACE GAUGE GALLON(S) GALVANIZED GALVANIZED IRON PIPE GROOVE JOINT GROUND GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GALLONS PER SECOND GRADE GRATING GALVANIZED STEEL GSP GROUND STORAGE RESERVOIR GROUND STORAGE TANK GROUT GATE VALVE HOSE BIBB HEAVY-DUTY HIGH-DENSITY POLYETHYLENE HYDRAULIC HYDROFLUOSILICIC ACID HANGER HEIGHT HAND RAIL HAND-OFF-AUTO HORIZONTAL HORSEPOWER HIGH PRESSURE AIR HOUR HEATING, VENTILATION, AND AIR CONDITIONING HIGH WATER LEVEL HIGHWAY HERTZ INSIDE DIAMETER INCH(ES) INFLUENT INTERSECTION INTERIOR INVERT IRON PIPE INTERNATIONAL PIPE STANDARD INTERNAL RECYCLE IRRIGATION WATER JUNCTION BOX JOINT KIP (1,000 LB) KICK PLATE KILOVOLT KILOVOLT-AMPERE KILOWATT KILOWATT-HOUR LEFT LABORATORY LAMINATE OR LAMINATION LATERAL LAVATORY	LEN LB LF LP LS LSS LYR LWL M M MAINT MAN MAS MATL MAX MC ME MECH MEG MFR MG MGD MH MI MIN MISC MJ ML MO MON MPH MPT MS MSP MTD MV MW MWL MWP N N NaOCl NE NE NIC NO NOM NPF NPT NPW NRS NTS NW N/A O O2 OC OD ODP OF OH OHV OPP OPT OR OSY O&M P PA PC PCM PE PG PI PL PL PNV POB POJ POL PP PPD PPM PREFAB PRESS PRV PRW PSF PSI PSIA PT PV PVC PVMT PW PWR Q Q QTY R RAD RAS RC RCB RCP RCPA RD RDCR REBAR REF REIN REQ'D RF RJ RM RPBP RPM RR RT RVT RW RW RW RW S SA SAN SCHED SD SE SECT SEFF SF SHT SIG SIM SL SLV SM SOLN SP SPEC SPRT SQ SS SSE SST ST STA STD STK STL STR STRUCT SURF SURVE SVCE SVW SW SWD SWSH SYMB SYMM SW RAILROAD RIGHT RIVETED RAW WATER RAW WASTEWATER RIGHT-OF-WAY SOUTH SAMPLE LINE SANITARY SCHEDULE STORM DRAIN SOUTHEAST SECTION SECONDARY EFFLUENT SQUARE FOOT OR FEET SHEET(ED)(ING) SIGNAL SIMILAR SLUDGE SLEEVE SHEET METAL SOLUTION SOIL PIPE, SPACE(ING) SPECIFICATION SUPPORT SQUARE SANITARY SEWER SUBSTANDARD EFFLUENT STAINLESS STEEL STREET STATION STANDARD STAKE STEEL STRAIGHT STRUCTURAL SURFACE SURVEILLANCE VALVE SERVICE SERVICE WATER SOUTHWEST SIDEWATER DEPTH SURFACE WASH SYMBOL SYMMETRICAL SIDEWALK TAN TB TBM TB-xx TD TDH TE TEFC TEL TENV THD THK TLM TOB TOC TOS TOT TP TS TV TYP T&B U UD UG ULT UN UNON UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE CABLE UTILITY V V VAC VAR VC VCP VEL VERT VFD VOL W W WAS WCO WF WH WL WM WP WPR WS WSP WT WTP WW WWF WWW WWTP WELL WM FH SD Y YD YH YR YARD(S) YARD HYDRANT YEAR(S) YR
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PIPING LEGEND

FITTING/ APPURTENANCE	FLANGED				MECHANICAL JOINT				GROOVE JOINT				SOLVENT WELD			
	SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE	
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
BEND																
TEE																
WYE																
REDUCER																
CAP/ BLIND FLANGE					N/A	N/A	N/A	N/A								
PLUG	N/A	N/A	N/A	N/A					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUTTERFLY VALVE																
BALL VALVE					N/A	N/A	N/A	N/A								
CHECK VALVE					N/A	N/A	N/A	N/A								
GATE VALVE																
BLACK VALVE																
AUTOMATIC CONTROL VALVE					N/A	N/A	N/A	N/A								
PINCH VALVE					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				

CIVIL LEGEND

	PROPERTY LINE
	RIGHT OF WAY LINE (R-O-W)
	LIMITS OF CONSTRUCTION
	EASEMENT
	PROPOSED CONTOUR MAJOR
	PROPOSED CONTOUR MINOR (LABEL OPTIONAL)
	WATER
	STORM SEWER
	SANITARY SEWER
	SANITARY SEWER (FORCE MAIN)
	GUARD RAIL
	STEEL FENCE
	WOOD FENCE
	VEGETATION
	TOP
	BOTTOM
	WV
	WELL
	WM
	FH
	SD
	MH-??
	SS
	SV
	CO
	MW-X
	XFER
	Y
	YD
	YH
	YR
	WATT, WEST
	WASTE ACTIVATED SLUDGE
	WALL CLEAN OUT
	WIDE FLANGE
	WALL HYDRANT
	WATER LINE
	WATER MAIN
	WATER PROOF(ING), WORKING POINT
	WORKING PRESSURE
	WATER SURFACE
	WELDED STEEL PIPE
	WEIGHT
	WATER TREATMENT PLANT
	WASH WATER
	WELDED WIRE FABRIC
	WELDED WIRE MESH
	WASTEWATER TREATMENT PLANT
	WITH
	WITHOUT
	X
	XFER
	Y
	YD
	YH
	YR
	WATT, WEST
	WASTE ACTIVATED SLUDGE
	WALL CLEAN OUT
	WIDE FLANGE
	WALL HYDRANT
	WATER LINE
	WATER MAIN
	WATER PROOF(ING), WORKING POINT
	WORKING PRESSURE
	WATER SURFACE
	WELDED STEEL PIPE
	WEIGHT
	WATER TREATMENT PLANT
	WASH WATER
	WELDED WIRE FABRIC
	WELDED WIRE MESH
	WASTEWATER TREATMENT PLANT
	WITH
	WITHOUT
	X
	XFER
	Y
	YD
	YH
	YR
	WATT, WEST
	WASTE ACTIVATED SLUDGE
	WALL CLEAN OUT
	WIDE FLANGE
	WALL HYDRANT
	WATER LINE
	WATER MAIN
	WATER PROOF(ING), WORKING POINT
	WORKING PRESSURE
	WATER SURFACE
	WELDED STEEL PIPE
	WEIGHT
	WATER TREATMENT PLANT
	WASH WATER

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GENERAL NOTES

PROJECT INFORMATION:

1. THE PROJECT SHALL CONSIST OF THE DEMOLITION OF THE EXISTING CMP CULVERT UNDER SILVER LEAF DRIVE AND THE INSTALLATION OF 84 LINEAR FEET OF 6' X 4' CONCRETE BOX CULVERT ALONG WITH THE RELOCATION OF THE EXISTING UTILITIES IN THE AREA.
2. THE ORDER OF MAJOR LAND DISTURBING ACTIVITIES IS INDICATED IN THE ACTIVITY SCHEDULE LOCATED ON SHEET C-505.
3. THE DISTURBED ACREAGE FOR THE PROJECT IS 0.60 ACRES.
4. THE CULVERT REPLACEMENT PROJECT LOCATION IS:
33.45398° -84.48115°

FAYETTE COUNTY WATER SYSTEM NOTES:

1. FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WATER MAIN CONSTRUCTION.
2. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH FAYETTE COUNTY WATER SYSTEM AND AWWA STANDARDS AND SPECIFICATIONS.
3. DUCTILE IRON PIPE (D.I.P.) SHALL BE MINIMUM PRESSURE CLASS 300 CEMENT MORTAR LINED, PER ANSI C151/A21.51. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON PER ANSI A21.10 OR A21.53. ALL SERVICE PIPING SHALL BE COPPER.
4. PROVIDE THRUST RESTRAINT (THRUST BLOCKS OR RESTRAINED JOINTS) AT ALL BENDS, TEES, CROSSES AND END OF LINES. (EOL) SIDE FORMS SHALL BE USED TO PREVENT ENCASEMENT OF BOLTS. SERVICE TAPS SHALL NOT BE LOCATED BENEATH PAVEMENT.
5. MAINTAIN 24" MINIMUM CLEARANCE BETWEEN WATERLINE AND OTHER STRUCTURES.
6. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4' OVER ALL WATER LINES.
7. CONTRACTOR SHALL FLAG WATER LINE AND SERVICE LOCATIONS TO PREVENT DAMAGE BY OTHER UTILITY CONTRACTORS.
8. PROPER COMPACTION IS REQUIRED THROUGHOUT THE PROJECT. (95% PERVIOUS, 98% IMPERVIOUS)
9. UNSUITABLE SOIL MATERIALS SHALL BE REPLACED WITH SUITABLE MATERIALS.
10. NEW WATER LINE SHALL BE PRESSURE TESTED FOR 2 HOURS AT 200 P.S.I. UNACCEPTABLE LEAKAGE SHALL BE REPAIRED AND WATER LINE SHALL BE RETESTED PRIOR TO ACCEPTANCE BY FAYETTE COUNTY WATER SYSTEM. MAIN MUST BE DISINFECTED PRIOR TO BEING PLACED IN SERVICE.
11. TOP OF CURBS SHALL BE PERMANENTLY MARKED AND PAINTED BLUE AT MAIN AND SERVICE CROSSINGS, AS WELL AS, VALVE AND METER LOCATIONS.
12. WATERLINE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING SIGNAGE AND FLAGMEN, WHILE WORKING WITHIN THE RIGHT OF WAY OF ANY EXISTING ROAD.
13. WATERLINE CONTRACTOR PERFORMING ANY WORK WITHIN AN EXISTING RIGHT OF WAY MUST COMPLY WITH THE MUTCD 2003 EDITION WITH REVISIONS NUMBER 1 AND 2 INCORPORATED, DATED DECEMBER 2007. FLAGGERS MUST POSSESS A CURRENT CERTIFICATION CARD. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
14. WATER TO BE PROVIDED BY FAYETTE COUNTY WATER SYSTEM.
15. ALL TIE-INS SHALL BE COORDINATED WITH FAYETTE COUNTY WATER SYSTEM. EXISTING VALVES SHALL BE OPERATED BY COUNTY PERSONNEL ONLY.
16. CONTRACTOR MUST NOTIFY FAYETTE COUNTY WATER SYSTEM 24 HOURS PRIOR TO BEGINNING CONSTRUCTION OR REQUESTING INSPECTIONS. ALL WORK MUST BE INSPECTED PRIOR TO BACKFILL AND COMPACTION. ANY WORK COVERED PRIOR TO INSPECTION IS SUBJECT TO REJECTION UNTIL IT HAS BEEN EXPOSED AND INSPECTED BY FAYETTE COUNTY WATER PERSONNEL.
17. NO TRENCHES OR PITS ARE TO BE LEFT OPEN OVERNIGHT OR THROUGH A WEEKEND. IF CREW VACATES JOB SITE DURING DAYTIME HOURS, A PROPERLY CONSTRUCTED, HIGHLY VISIBLE BARRICADE MUST BE ERECTED.
18. WHILE THE EXCAVATION IS OPEN, UNDERGROUND INSTALLATIONS SHALL BE PROTECTED, SUPPORTED OR REMOVED AS NECESSARY TO SAFEGUARD EMPLOYEES.
19. MEANS OF EGRESS FROM TRENCH EXCAVATIONS. A STAIRWAY, LADDER, RAMP OR OTHER SAFE MEANS OF EGRESS SHALL BE LOCATED IN TRENCH EXCAVATIONS THAT ARE 4 FEET OR MORE IN DEPTH SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL FOR EMPLOYEES.
20. CONTACT BEN MARTIN AT THE FAYETTE COUNTY WATER SYSTEM PRIOR TO BEGINNING ANY WORK. PHONE: 770-320-6082
21. ALL CONTRACTORS MUST HAVE A CERTIFIED COMPETENT PERSON ON SITE WHILE WORK IS BEING PERFORMED. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
22. ALL CONTRACTORS PERFORMING ANY LAND DISTURBING ACTIVITY SHALL HAVE ATTENDED THE GSWCC SUB CONTRACTOR AWARENESS COURSE WHEN WORKING IN A COMMON DEVELOPMENT WHERE THE PRIMARY PERMITTEE HAS OBTAINED A LEVEL 1A CERTIFICATION. THE PRIMARY PERMITTEE IS REQUIRED TO HAVE A LEVEL 1A CERTIFIED REPRESENTATIVE ON SITE AT ALL TIMES. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
23. ANY CONTRACTOR PERFORMING ANY LAND DISTURBING ACTIVITY UNDER CONTRACT FOR FAYETTE COUNTY WATER SYSTEM SHALL BE CONSIDERED THE SECONDARY PERMITTEE FOR EACH PROJECT. THE CONTRACTOR SHALL BE REQUIRED TO HAVE A GSWCC LEVEL 1A CERTIFIED REPRESENTATIVE ON SITE AT ALL TIMES. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.
24. BEFORE RELEASE OF THE WATER LINES, 2 CERTIFIED AS - BUILTS (24 X 36) MUST BE SUBMITTED ALONG WITH 2 SIGNED FINAL PLATS OR FINAL SITE PLANS. ONE ELECTRONIC COPY OF EACH DOCUMENT SHOULD BE SENT TO THE INSPECTOR UPON ACCEPTANCE.

GENERAL:

1. BENCHMARK FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEET C-101 .
2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE FAYETTE COUNTY. WHERE CONFLICTS OR OMISSIONS EXIST, THE FAYETTE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
3. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
4. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE FAYETTE COUNTY DEVELOPMENT REGULATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE, SHALL BE FULLY BORNE BY THE CONTRACTOR.

GENERAL (CONTINUED):

6. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
7. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING TO BE HELD BETWEEN FAYETTE COUNTY, UTILITIES, ENGINEER OF RECORD, AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING LANDSCAPE SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS HOURS BEFORE REQUIRED INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO PRESSURE TESTING, OR FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE.
10. ALL CONTRACTORS, CITY REPRESENTATIVES, COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
12. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE. RECORD DRAWINGS MUST BE COMPLETED BY A REGISTERED LAND SURVEYOR (RLS).
13. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WERE TAKEN FROM SURVEY PROVIDED BY: ROCHESTER AND ASSOCIATES, INC. SURVEY DATE: 10/10/17.
14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
15. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
16. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT HIS PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

DEMOLITION:

1. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF THESE ITEMS TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
4. THE CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).
5. THE CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE FAYETTE COUNTY REGULATIONS.
6. THE CONTRACTOR SHALL REMOVE UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
7. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE:

1. COMPACT ALL UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) AND TO 95% WITHIN OTHER AREAS.
2. ALL ORGANIC SOILS BELOW UTILITY TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED TO NO LESS THAN 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180).
3. STABILIZED SUBGRADE TO MEET SPECIFIED REQUIREMENTS.
4. ASPHALTIC CONCRETE TO GDOT STANDARD SPECIFICATION (LATEST EDITION) SECTION 400 AND FAYETTE COUNTY, WHICHEVER IS GREATER.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
6. ALL CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3000 PSI CONCRETE.
7. ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED WITH SOD (SAME AS SURROUNDING AREA OR BETTER) OR APPROVED EQUAL. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PERMANENT GRASSING.
8. THE REINFORCED CONCRETE PIPE SHALL BE CLASS III WITH WALL THICKNESS "B" CONFORMING TO ASTM C - 76 OR AWWA 302 - 74 AND GASKETS SHALL BE IN ACCORDANCE WITH ASTM C - 443 OR ASTM D - 412.
9. ALL PIPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.
10. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORM WATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS; AND STORM WATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS. THE CONTRACTOR SHALL SUBMIT FOR WATER USE PERMITS IF REQUIRED FOR DEWATERING ACTIVITIES.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE (CONTINUED):

11. ALL PIPES SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE ELEVATIONS AND ALIGNMENTS.
12. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRASS OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AS NOTED ON PLANS, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFF-SITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER SHALL BE STAKED.
13. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY AND SEDIMENT INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AND SILT FENCES AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY AND SEDIMENT BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS.

OTHER UTILITY INFORMATION:

1. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO LOCATE THEIR FACILITIES IN THE FIELD FORTY- EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION.
2. DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE TWENTY-FIVE (25) FEET ON EACH SIDE OF ANY PERPENDICULAR CROSSING OF METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPELINE AND FOR LOCATIONS PARALLEL TO AND WITHIN TEN FEET OF METALLIC GAS MAINS OR OTHER CATHODICALLY PROTECTED PIPE AND THROUGH THE AREA OF INFLUENCE OF CATHODIC PROTECTION ANODE BED.

SPILL CONTROL NOTES:

1. IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS NOTES OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
 - a. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 - b. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 - c. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
 - d. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
 - e. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
2. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION, DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

BY

HA

HA

HA

CG

CG

MARK

DATE

DESCRIPTION

0

02/16/18

30% SUBMITTAL

1

07/13/18

60% SUBMITTAL

2

10/15/18

90% SUBMITTAL

3

08/14/19

100% SUBMITTAL

4

03/12/20

ISSUED FOR CONSTRUCTION

CG

CG

CG

FAYETTE COUNTY

SILVER LEAF DR CULVERT REPLACEMENT

GENERAL NOTES

Project No.:

200-01297-18004

Designed By:

CG

Drawn By:

HA

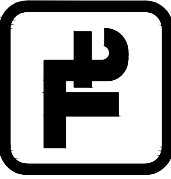
Checked By:

DL

G-002

Bar Measures 1 inch

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DAVID N. LAVETTE

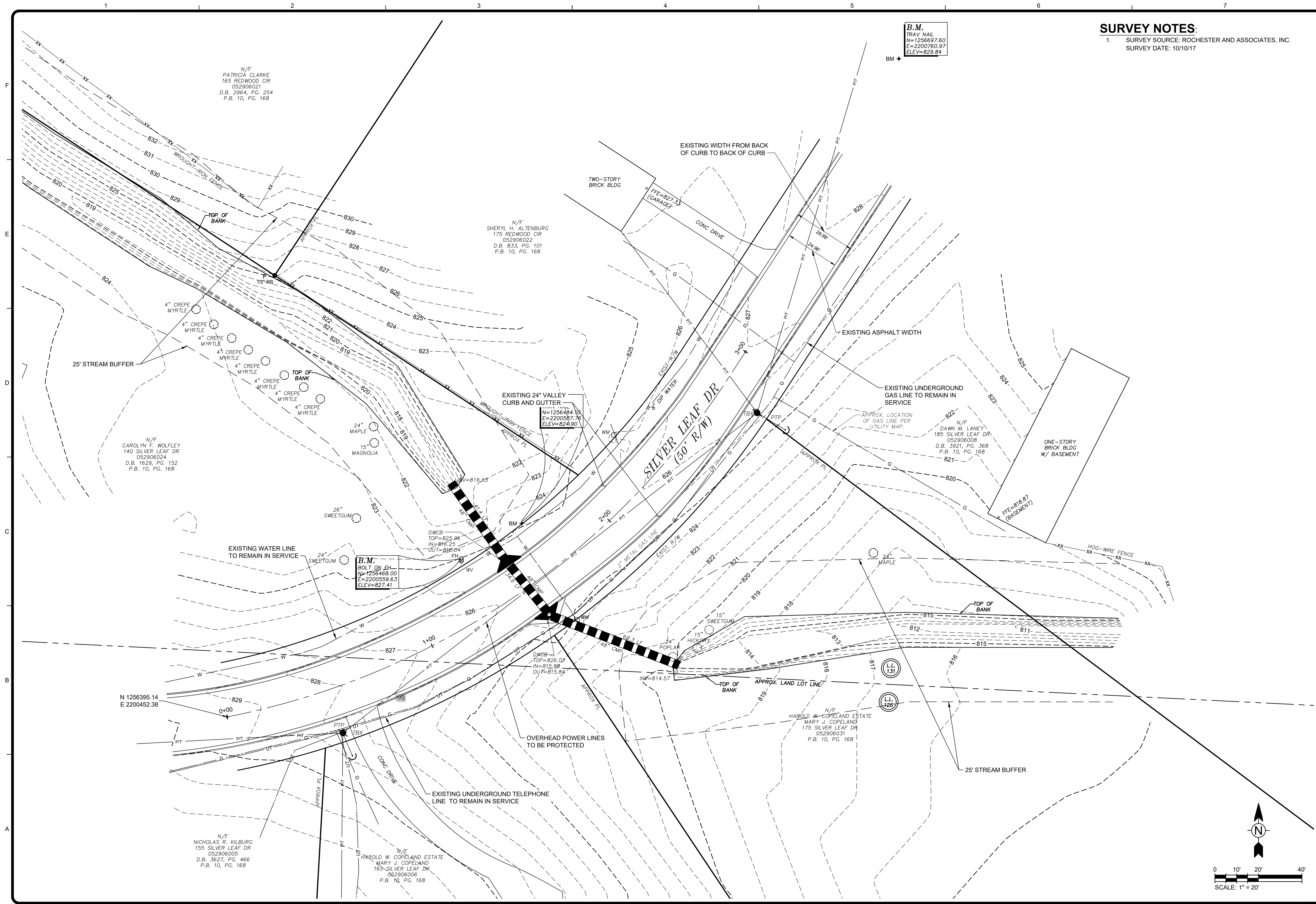
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9/16/2020

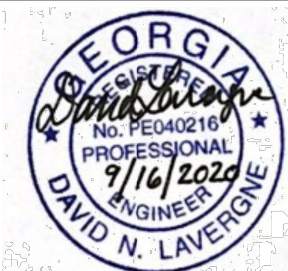
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9/16/2020 8:57:56 AM - O:\PROJECTS\ATLANTA\101297-18004\CADD\SHEETFILES\C-101 EXISTING CONDITIONS.DWG - GULMIRE, CALEB



SURVEY NOTES:
1. SURVEY SOURCE: ROCHESTER AND ASSOCIATES, INC.
SURVEY DATE: 10/10/17



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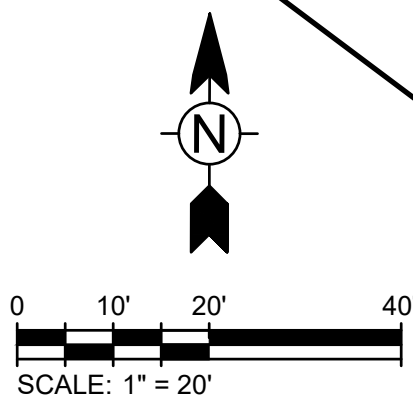
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3	08/14/19	100% SUBMITTAL	CG
4	03/12/20	ISSUED FOR CONSTRUCTION	CG
4	09/16/20	ISSUED FOR CONSTRUCTION	CG

FAYETTE COUNTY
SILVER LEAF DR CULVERT REPLACEMENT
EXISTING CONDITIONS

Project No.: 200-01297-18004
Designed By: CG
Drawn By: HA
Checked By: DL

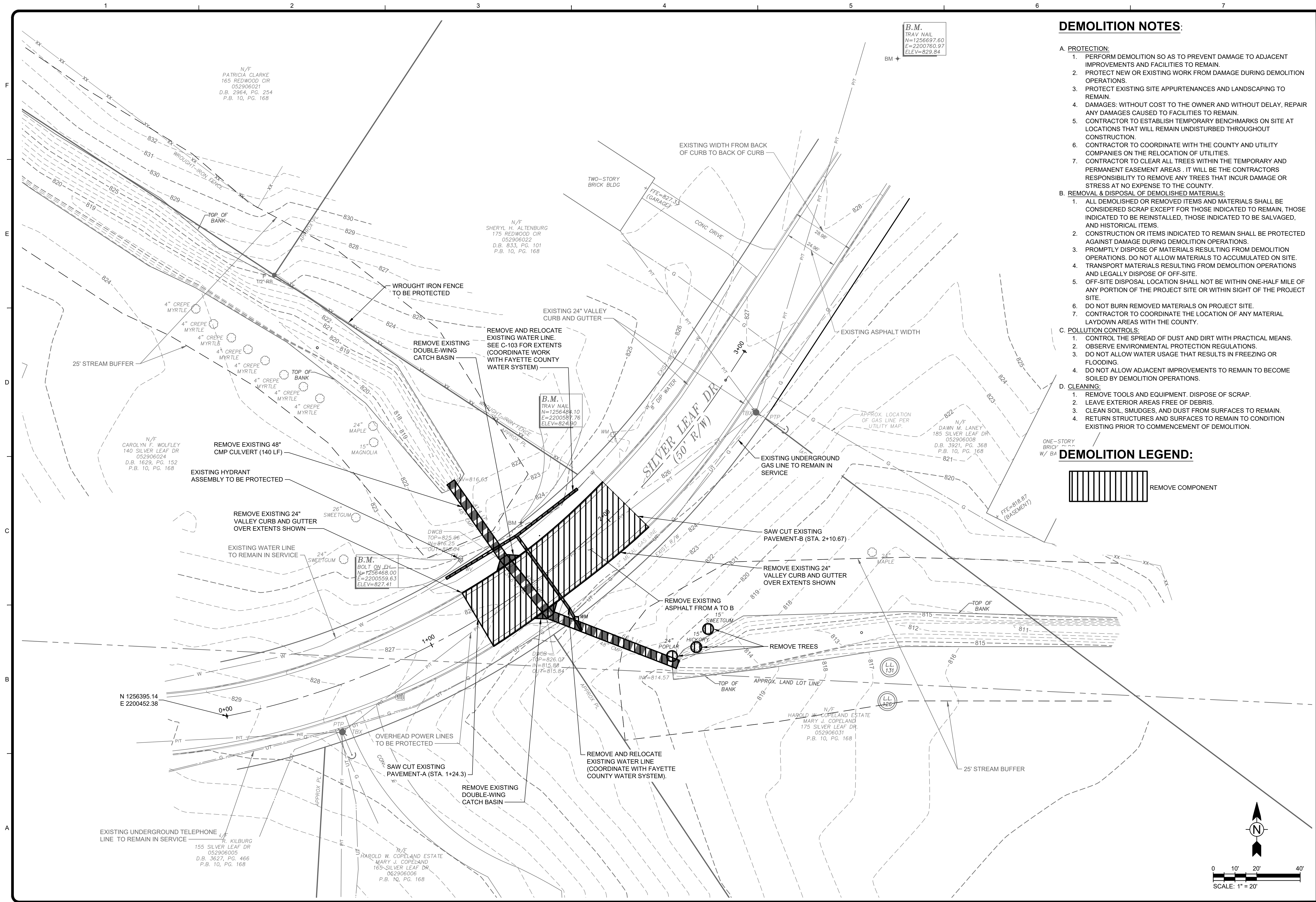
C-101

Bar Measures 1 inch



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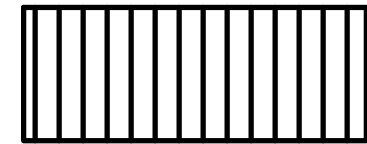
9/16/2020 9:00:03 AM - O:\PROJECTS\ATLANTA\101297-18004\CADD\SHEETFILES\C-102 DEMOLITION PLAN.DWG - GULMIRE, CALEB



DEMOLITION NOTES:

- A. PROTECTION:**
- PERFORM DEMOLITION SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN.
 - PROTECT NEW OR EXISTING WORK FROM DAMAGE DURING DEMOLITION OPERATIONS.
 - PROTECT EXISTING SITE APPURTENANCES AND LANDSCAPING TO REMAIN.
 - DAMAGES: WITHOUT COST TO THE OWNER AND WITHOUT DELAY, REPAIR ANY DAMAGES CAUSED TO FACILITIES TO REMAIN.
 - CONTRACTOR TO ESTABLISH TEMPORARY BENCHMARKS ON SITE AT LOCATIONS THAT WILL REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
 - CONTRACTOR TO COORDINATE WITH THE COUNTY AND UTILITY COMPANIES ON THE RELOCATION OF UTILITIES.
 - CONTRACTOR TO CLEAR ALL TREES WITHIN THE TEMPORARY AND PERMANENT EASEMENT AREAS. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE ANY TREES THAT INCUR DAMAGE OR STRESS AT NO EXPENSE TO THE COUNTY.
- B. REMOVAL & DISPOSAL OF DEMOLISHED MATERIALS:**
- ALL DEMOLISHED OR REMOVED ITEMS AND MATERIALS SHALL BE CONSIDERED SCRAP EXCEPT FOR THOSE INDICATED TO REMAIN, THOSE INDICATED TO BE REINSTALLED, THOSE INDICATED TO BE SALVAGED, AND HISTORICAL ITEMS.
 - CONSTRUCTION OR ITEMS INDICATED TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
 - PROMPTLY DISPOSE OF MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DO NOT ALLOW MATERIALS TO ACCUMULATED ON SITE.
 - TRANSPORT MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
 - OFF-SITE DISPOSAL LOCATION SHALL NOT BE WITHIN ONE-HALF MILE OF ANY PORTION OF THE PROJECT SITE OR WITHIN SIGHT OF THE PROJECT SITE.
 - DO NOT BURN REMOVED MATERIALS ON PROJECT SITE.
 - CONTRACTOR TO COORDINATE THE LOCATION OF ANY MATERIAL LAYDOWN AREAS WITH THE COUNTY.
- C. POLLUTION CONTROLS:**
- CONTROL THE SPREAD OF DUST AND DIRT WITH PRACTICAL MEANS.
 - OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS.
 - DO NOT ALLOW WATER USAGE THAT RESULTS IN FREEZING OR FLOODING.
 - DO NOT ALLOW ADJACENT IMPROVEMENTS TO REMAIN TO BECOME SOILED BY DEMOLITION OPERATIONS.
- D. CLEANING:**
- REMOVE TOOLS AND EQUIPMENT. DISPOSE OF SCRAP.
 - LEAVE EXTERIOR AREAS FREE OF DEBRIS.
 - CLEAN SOIL, SMUDGES, AND DUST FROM SURFACES TO REMAIN.
 - RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF DEMOLITION.

DEMOLITION LEGEND:



REMOVE COMPONENT



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0	02/16/18	30% SUBMITTAL	HA
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3	08/14/19	100% SUBMITTAL	CG
4	03/12/20	ISSUED FOR CONSTRUCTION	CG
4	09/16/20	ISSUED FOR CONSTRUCTION	CG

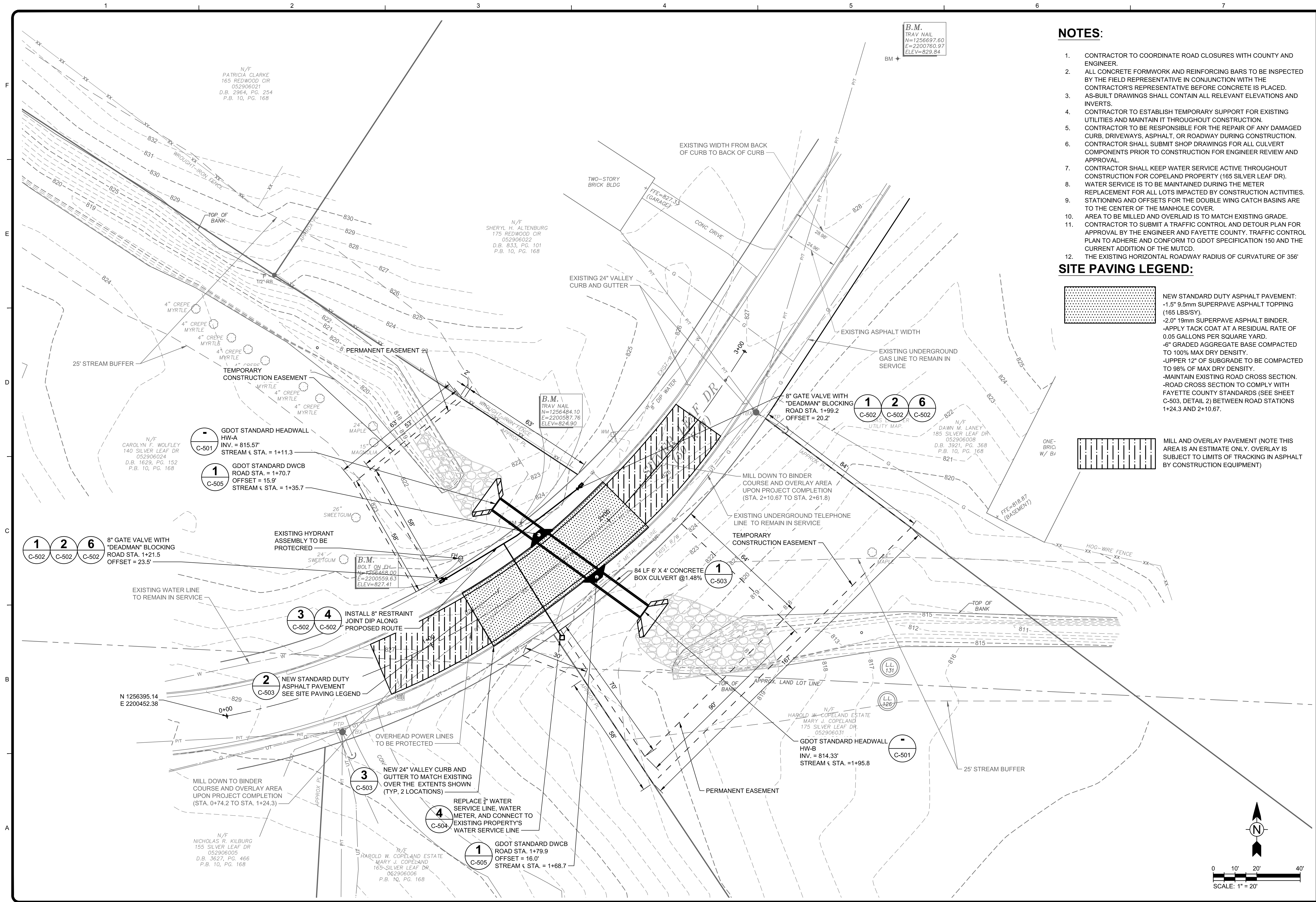
FAYETTE COUNTY
SILVER LEAF DR CULVERT REPLACEMENT
DEMOLITION PLAN

Project No.:	200-01297-18004
Designed By:	CG
Drawn By:	HA
Checked By:	DL

C-102

Bar Measures 1 inch

9/16/2020 10:18:49 AM - P:\NRI\01297\200-01297-18004\CAD\01\DWG-C-103 SITE PLAN.DWG - GULMIRE, CALEB



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Professional Engineer
DAVID N. LAVETTE
9/16/2024

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CERT. # 0000073529

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1	07/13/18	60% SUBMITTAL	HA
2	10/15/18	90% SUBMITTAL	HA
3	08/14/19	100% SUBMITTAL	CG
4	03/12/20	ISSUED FOR CONSTRUCTION	CG
4	09/16/20	ISSUED FOR CONSTRUCTION	CG

FAYETTE COUNTY

SILVER LEAF DR CULVERT REPLACEMENT

SITE PLAN

Project No.: 200-01297-18004

Designed By: CG

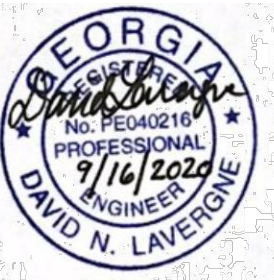
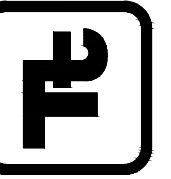
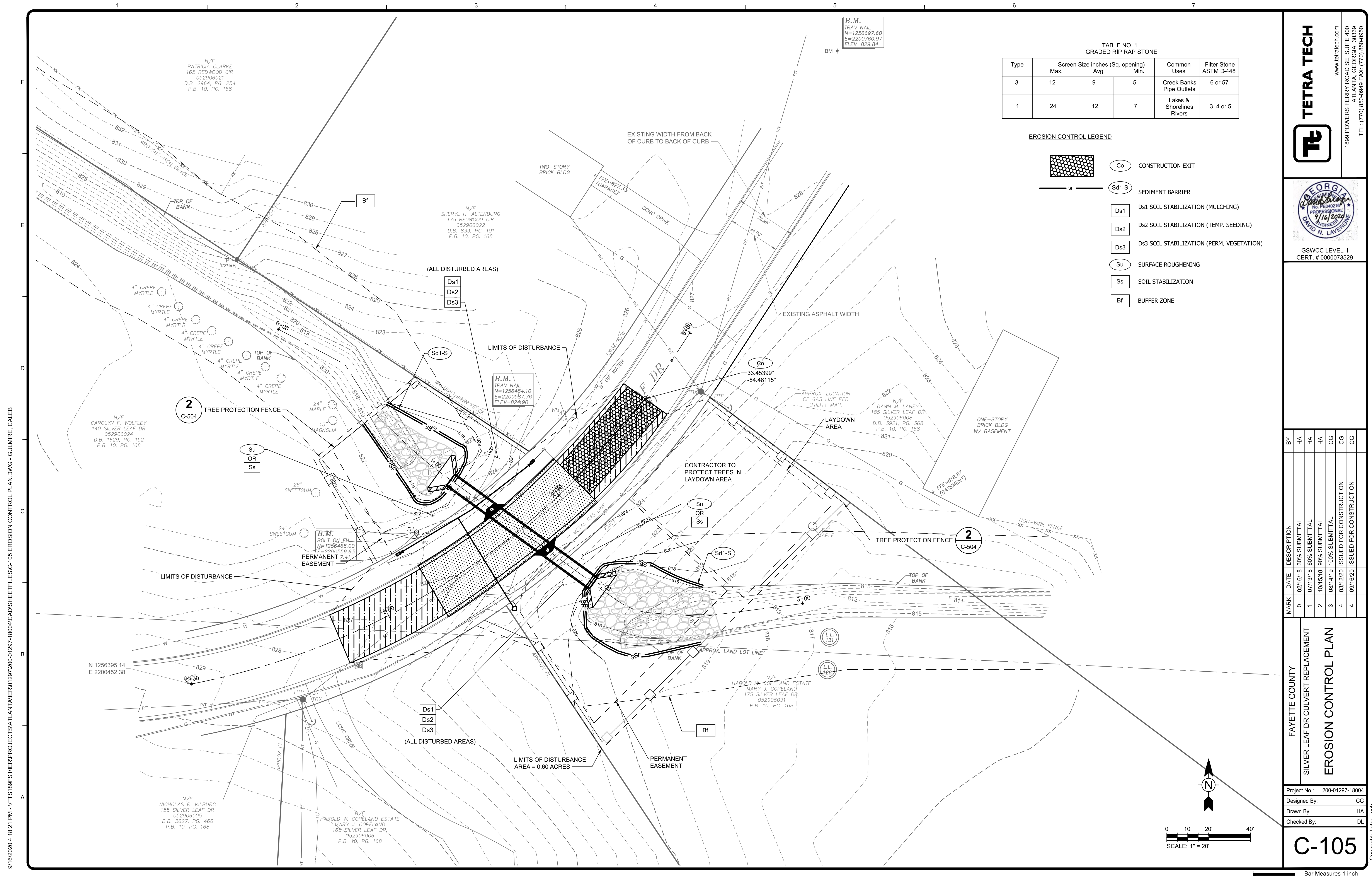
Drawn By: HA

Checked By: DL

C-103

Bar Measures 1 inch

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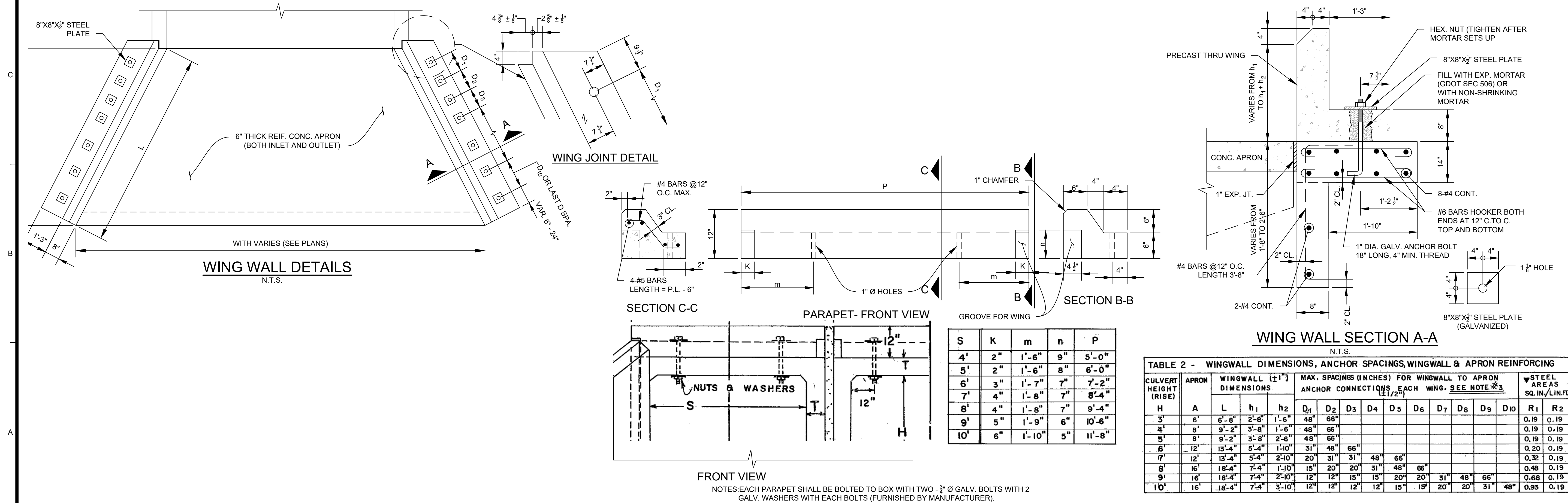
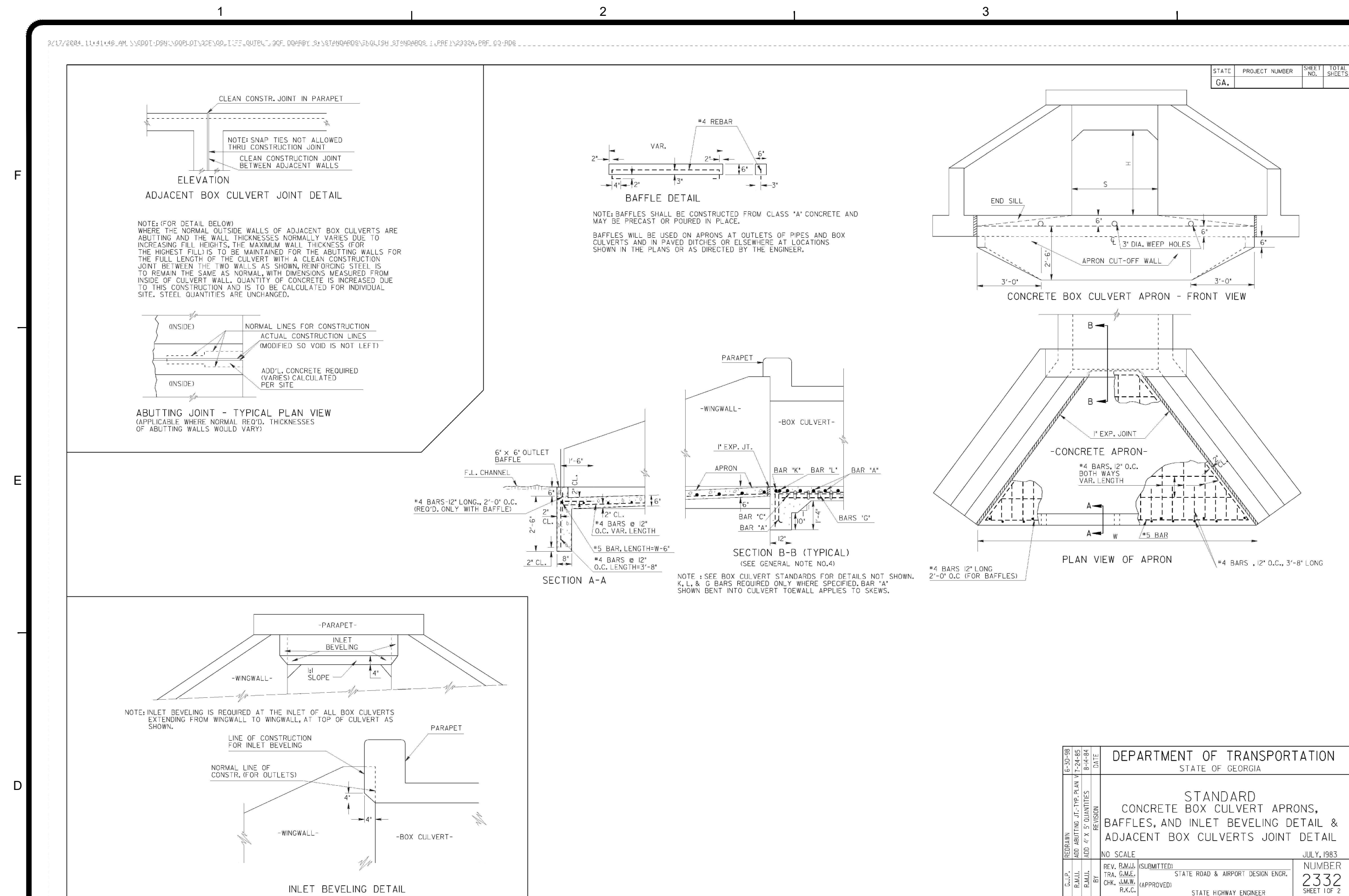
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	CG	100% SUBMITTAL	10/15/18
	CG	ISSUED FOR CONSTRUCTION	3
	CG	ISSUED FOR CONSTRUCTION	08/14/19
	CG	ISSUED FOR CONSTRUCTION	4
	CG	ISSUED FOR CONSTRUCTION	03/12/20
	CG	ISSUED FOR CONSTRUCTION	09/16/20

FAYETTE COUNTY
SILVER LEAF DR CULVERT REPLACEMENT
EROSION CONTROL PLAN

Project No.:	200-01297-18004
Designed By:	CG
Drawn By:	HA
Checked By:	DL

C-105

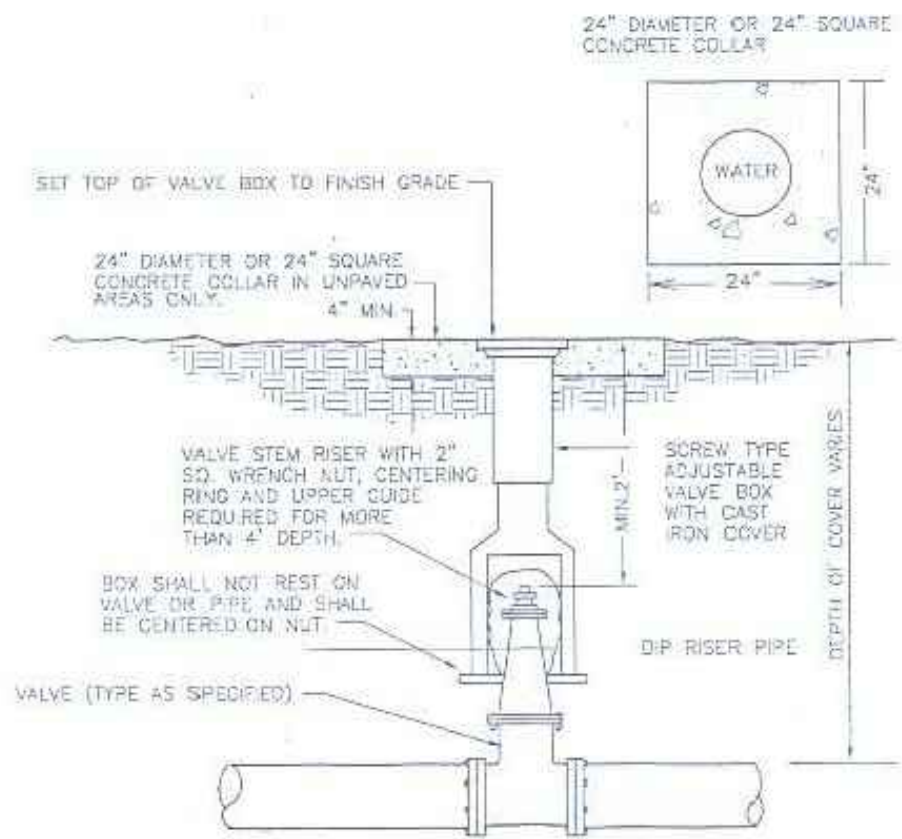
Bar Measures 1 inch



CULVERT HEIGHT (RISE)	APRON	WINGWALL ($\pm 1'$) DIMENSIONS			MAX. SPACINGS (INCHES) FOR WINGWALL TO APRON ANCHOR CONNECTIONS EACH WING. <u>SEE NOTE #3</u> ($\pm 1/2'$)											STEEL AREAS SQ. IN./LIN. FT.	
		A	L	h ₁	h ₂	D ₁	D ₂	D ₃	D ₄	D ₅	D ₆	D ₇	D ₈	D ₉	D ₁₀	R ₁	R ₂
H																	
3'	6'	6'-8"	2'-8"	1'-6"	48"	66"											0.19 0.19
4'	8'	9'-2"	3'-8"	1'-6"	48"	66"											0.19 0.19
5'	8'	9'-2"	3'-8"	2'-6"	48"	66"											0.19 0.19
6'	12'	13'-4"	5'-4"	1'-10"	31"	48"	66"										0.20 0.19
7'	12'	13'-4"	5'-4"	2'-10"	20"	31"	31"	48"	66"								0.32 0.19
8'	16'	18'-4"	7'-4"	1'-10"	15"	20"	20"	31"	48"	66"							0.48 0.19
9'	16'	18'-4"	7'-4"	2'-10"	12"	15"	15"	20"	20"	31"	48"	66"					0.68 0.19
10'	16'	18'-4"	7'-4"	3'-10"	12"	12"	12"	15"	15"	20"	20"	31"	48"				0.93 0.19

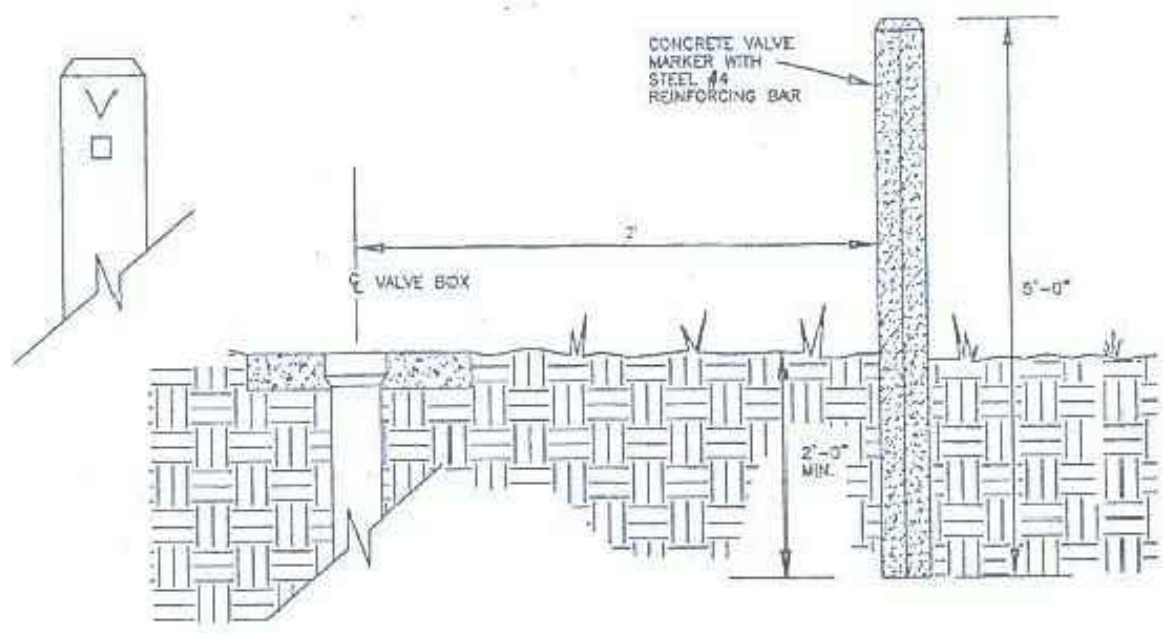
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F
E
D
C
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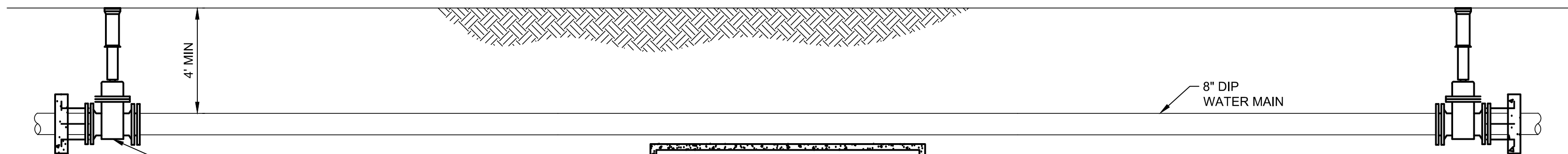
VALVE & VALVE BOX DETAIL

1
-
DETAIL
SCALE: N.T.S.



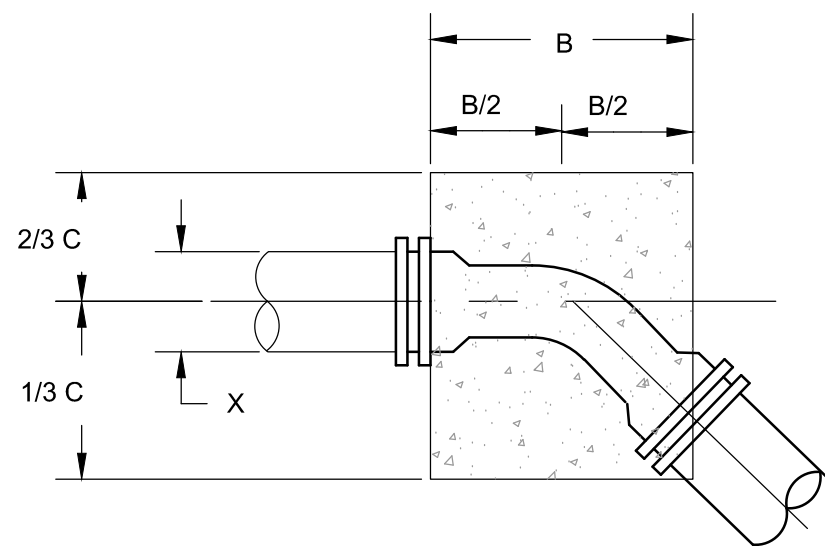
VALVE MARKER DETAIL

2
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DETAIL
SCALE: N.T.S.



8" WATER LINE CULVERT CROSSING

4
-
DETAIL
SCALE: N.T.S.

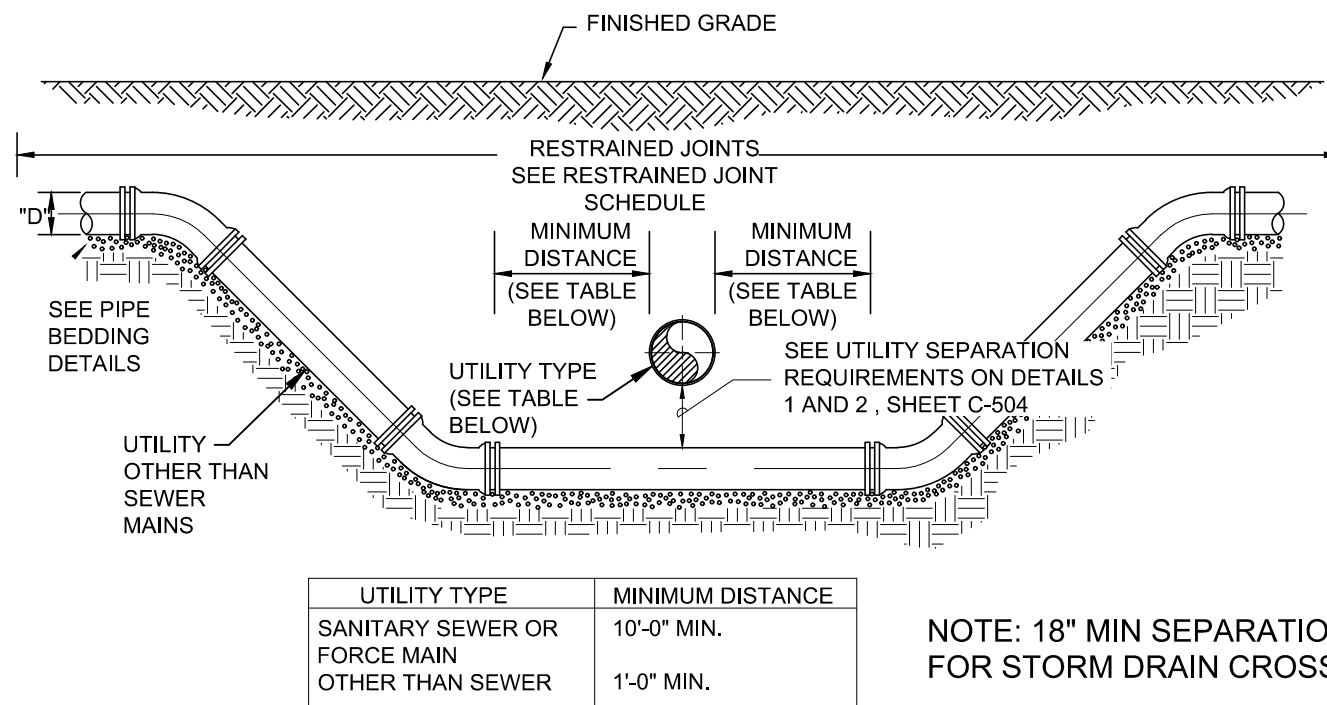


THRUST BLOCKING
N.T.S.

5
-
DETAIL
SCALE: N.T.S.

Line Pressure = 200 PSI Soil Pressure = 2000 PSF				
Pipe Size X	A	B	C	D
45 DEGREE BEND				
24"	2'-4"	5'-6"	5'-0"	3'-9"
20"	1'-11"	4'-6"	4'-0"	3'-0"
18"	1'-9"	4'-0"	4'-0"	2'-9"
16"	1'-7"	3'-6"	3'-6"	2'-3"
14"	1'-3"	3'-0"	3'-0"	2'-0"
12"	1'-3"	3'-0"	2'-6"	2'-0"
10"	1'-3"	2'-6"	2'-0"	1'-9"
8"	1'-0"	1'-9"	1'-9"	1'-3"
6"	0'-11"	1'-6"	1'-6"	1'-0"
4"	0'-9"	1'-0"	1'-0"	1'-0"

NOTE: THESE THRUST BLOCKING DETAILS SHALL BE USED IN CONJUNCTION WITH RESTRAINT JOINT PIPE.



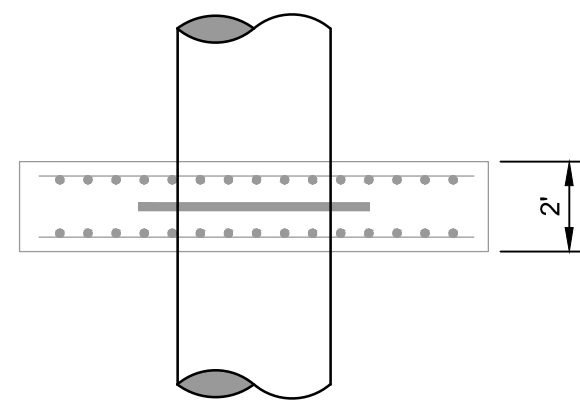
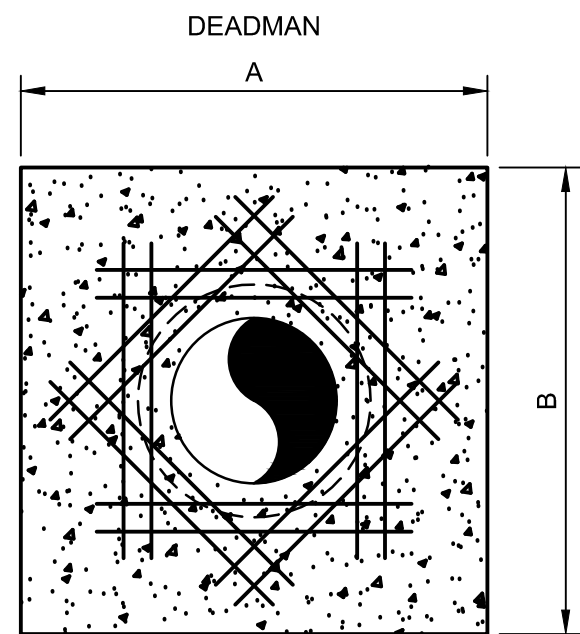
RESTRAINED JOINT UTILITY CROSSING
FOR UTILITIES OTHER THAN SEWER MAINS

RESTRAINED LENGTH EACH SIDE OF RESTRAINED FITTING (FEET)											
PIPE DIA (Inches)	DIP			PVC			RESTRAINED LENGTH FOR REDUCERS				
	90°	45°	22-1/2°	11-1/4°	90°	45°	22-1/2°	11-1/4°	3	4	6
4	35	15	10	5	55	25	15	10	40	-	-
6	55	25	10	5	80	35	20	10	50	45	-
8	65	30	15	10	90	40	20	10	75	70	40
10	80	35	20	10	110	50	25	15	95	90	70
12	95	40	20	10	130	55	30	15	120	115	100
16	120	50	25	15	165	70	35	20	160	155	140
20	150	65	30	15	200	85	40	20	200	195	185
24	160	70	35	20	210	90	45	25	160	155	150
30	190	80	40	20	250	105	50	25	195	190	185
36	220	95	45	25	-	-	-	-	225	220	215
42	245	105	50	25	-	-	-	-	245	240	235
48	260	120	60	30	-	-	-	-	255	250	245

RESTRAINED LENGTHS FOR DEAD ENDS, BRANCHES AND HDPE TO PVC TRANSITIONS SHALL BE THE SAME AS FOR 90° BENDS. IN-LINE VALVES SHALL BE RESTRAINED 20' EACH SIDE OF THE VALVE. (IF A JOINT FALLS AT THE MAXIMUM DISTANCE, IT SHALL BE RESTRAINED). TABLE BASED ON IRON FITTINGS. TEST PRESSURE 150 PSI.

RESTRAINED JOINT SCHEDULE

3
-
DETAIL
SCALE: N.T.S.

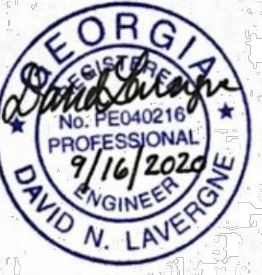


LINE PRESSURE = 150 PSI SOIL PRESSURE = 2000 PSF		
PIPE SIZE X	A	B
6"	2'-0"	2'-0"
8"	2'-6"	2'-6"
10"	3'-6"	3'-6"
12"	4'-0"	4'-0"
14"	4'-6"	4'-6"
16"	5'-0"	5'-0"
18"	6'-0"	6'-0"
20"	6'-6"	6'-6"
24"	7'-6"	7'-6"

- NOTES:
- DEADMAN SHALL BE CLASS "C" CONCRETE; "SACKCRETE" WILL NOT BE ALLOWED.
 - THE UTILITY LINE MUST BE LOWERED IN ORDER TO HAVE FOUR FEET (4') OF COVER AT THE BEND, TEE, REDUCER, OR PLUG AT ALL LOCATIONS WHERE THESE FITTINGS MAY BE UTILIZED.
 - FOR SOIL CONDITIONS LESS THAN 2000 P.S.F. BEARING PRESSURE OR PIPE PRESSURE OVER 150 P.S.I. SPECIAL THRUST BLOCKS/RESTRAINT MUST BE COMPUTED AND APPROVED.
 - CONCRETE SHALL BE POURED AGAINST UNDISTURBED SOIL. DISTURBED SOIL TO BE COMPACTED TO 95% OPTIMUM MOISTURE CONTENT.
 - MAINTAIN 2" CLEARANCE BETWEEN PIPE WALL AND REBAR.

6
-
DETAIL
SCALE: N.T.S.

TETRA TECH



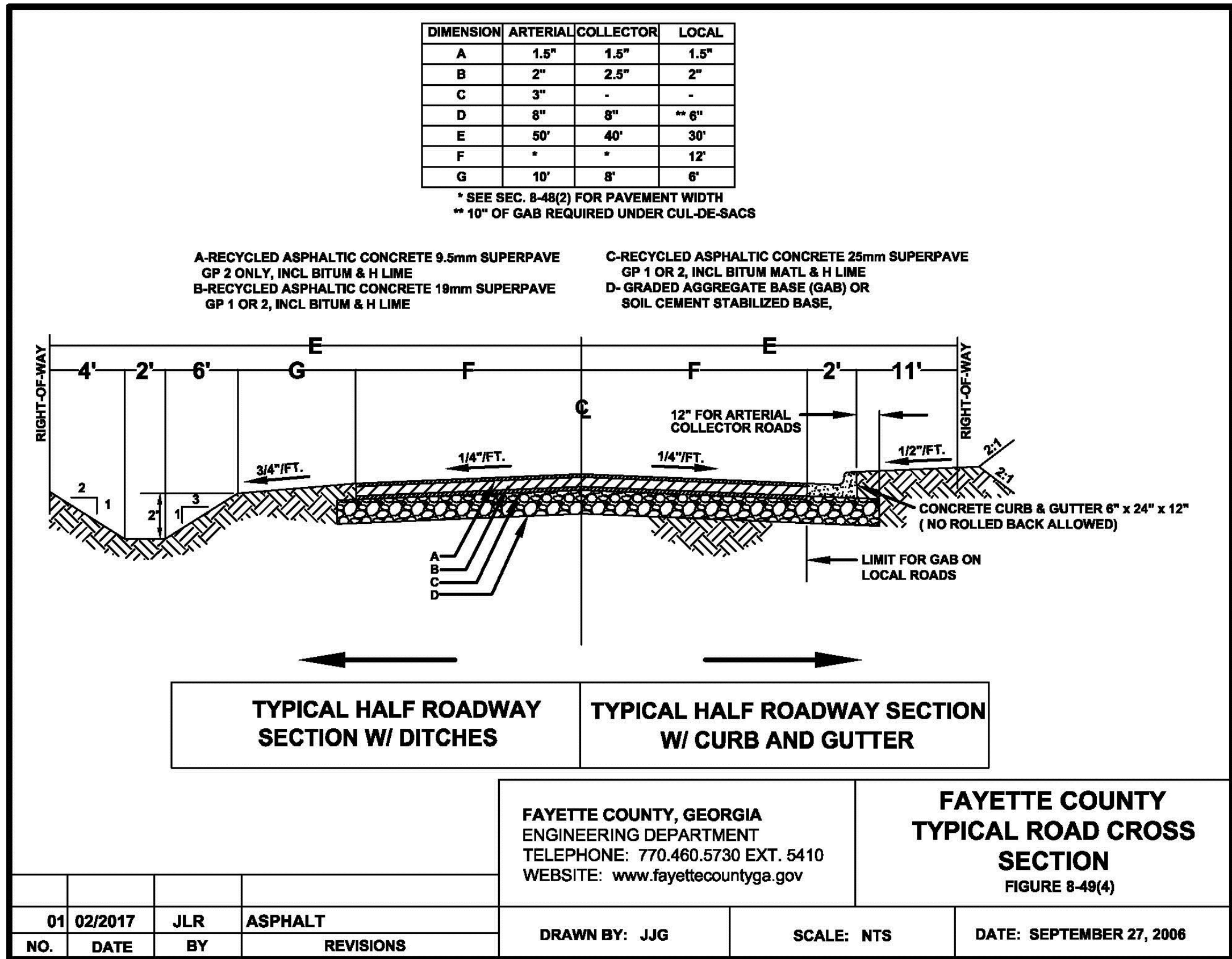
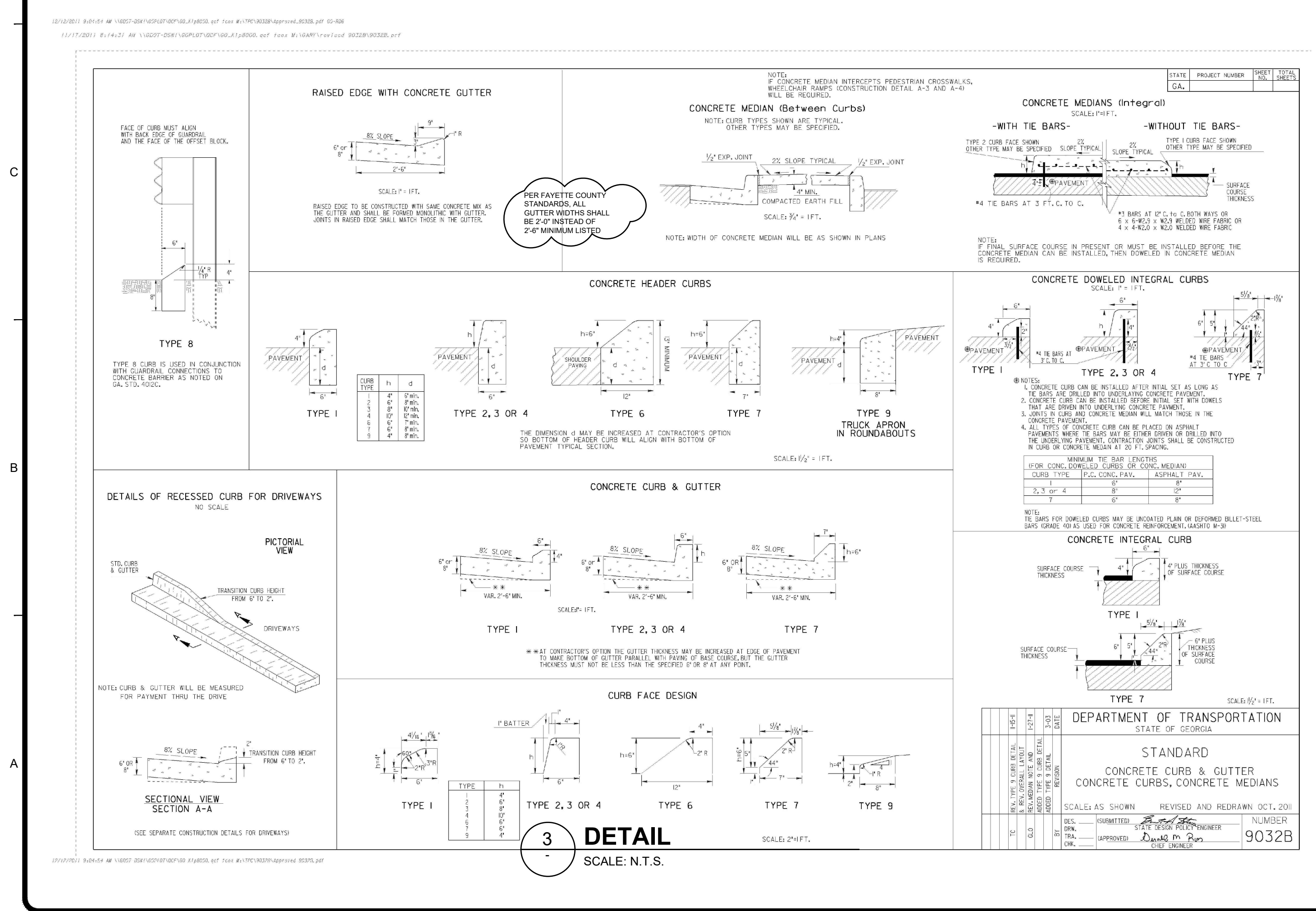
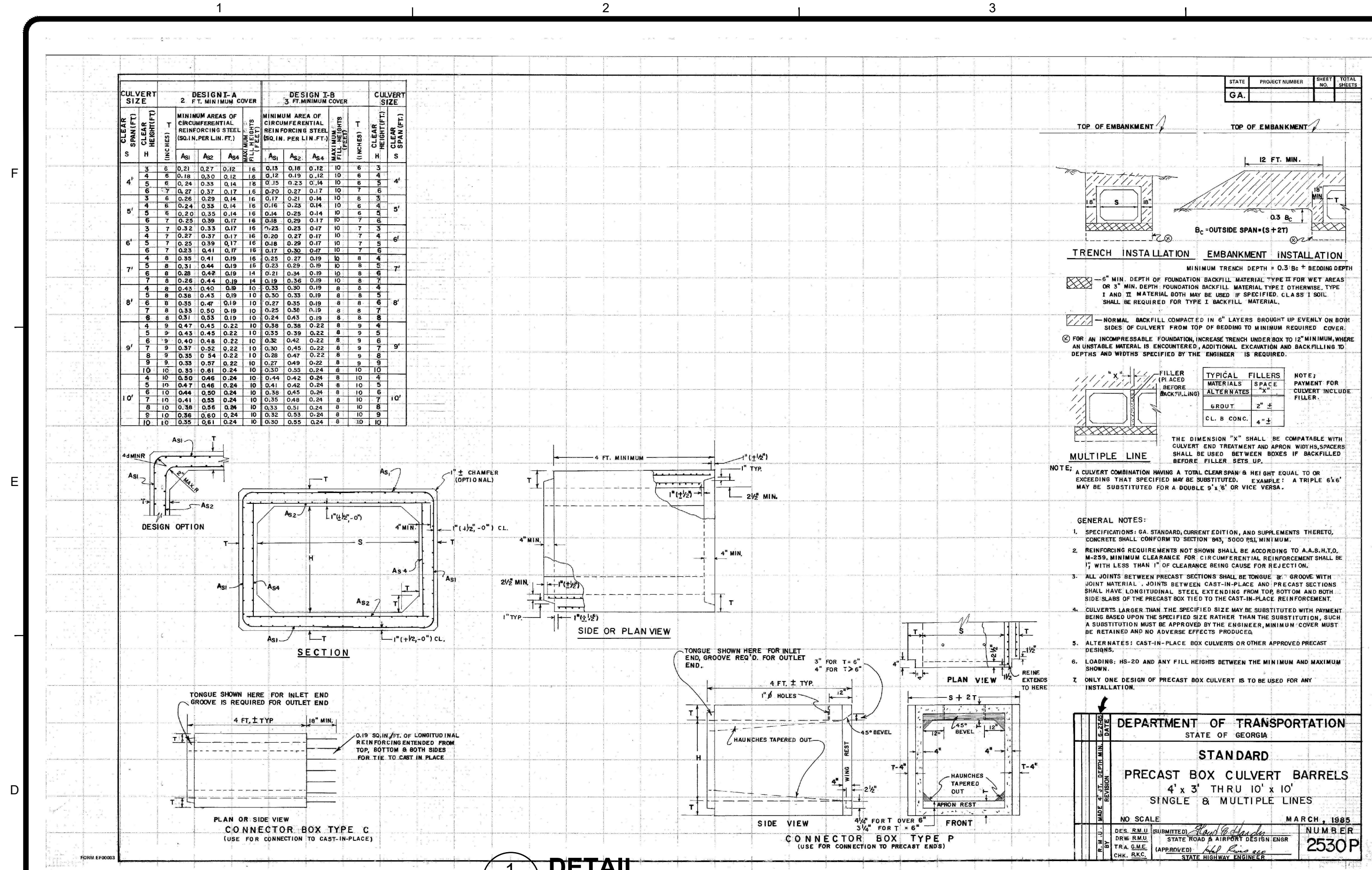
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CERT. # 0000073529

MARK	DATE	DESCRIPTION	BY
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2	10/15/18	90% SUBMITTAL	HA
3	08/14/19	100% SUBMITTAL	CG
4	03/12/20	ISSUED FOR CONSTRUCTION	CG
4	09/16/20	ISSUED FOR CONSTRUCTION	CG

FAYETTE COUNTY
SILVER LEAF DR CULVERT REPLACEMENT
CONSTRUCTION DETAILS

Project No.: 200-01297-18004
Designed By: CG
Drawn By: HA
Checked By: DL

C-502



TETRA TECH

www.tetratech.com

1899 POWERS FERRY ROAD SE, SUITE 400
ATLANTA, GEORGIA 30339
TEL: (770) 850-0949 FAX: (770) 850-0950

DAVID N. LAVELLE
REGISTERED PROFESSIONAL ENGINEER
NO. 76542
9/16/2024

GSWCC LEVEL II
CERT. # 0000073529

FAYETTE COUNTY

SILVER LEAF DR CULVERT REPLACEMENT

CONSTRUCTION DETAILS

Project No.: 200-01297-18004

Designed By: CG

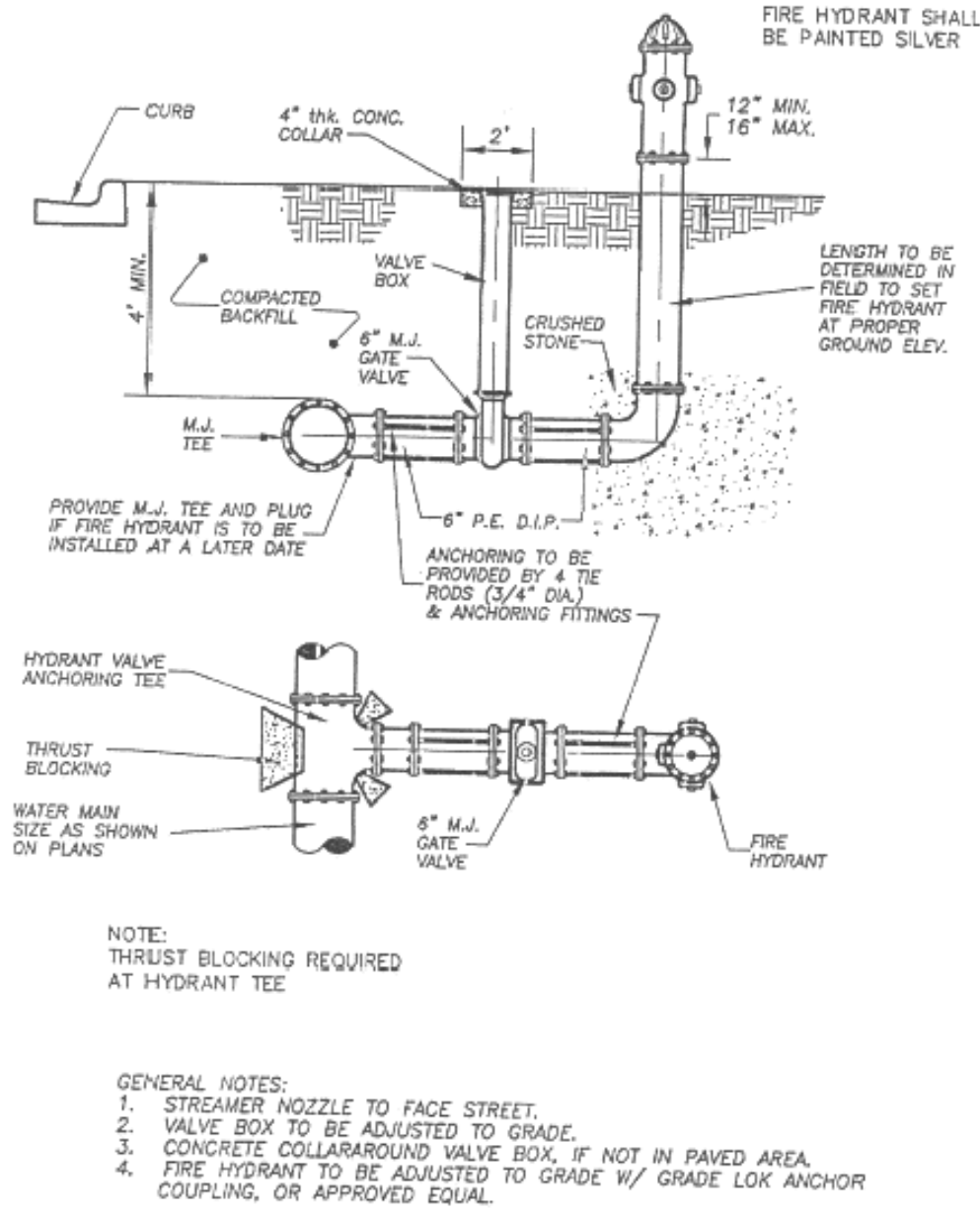
Drawn By: HA

Checked By: DL

C-503

Bar Measures 1 inch

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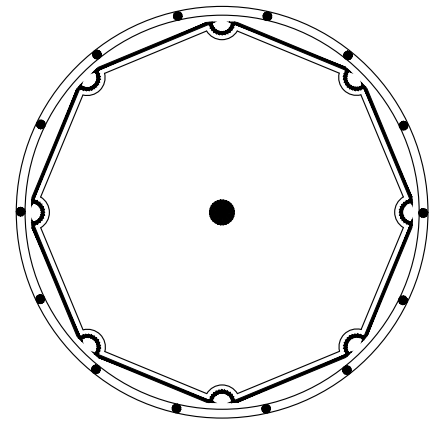
TYP. FIRE HYDRANT INSTALLATION

1
-
DETAIL
SCALE: N.T.S.

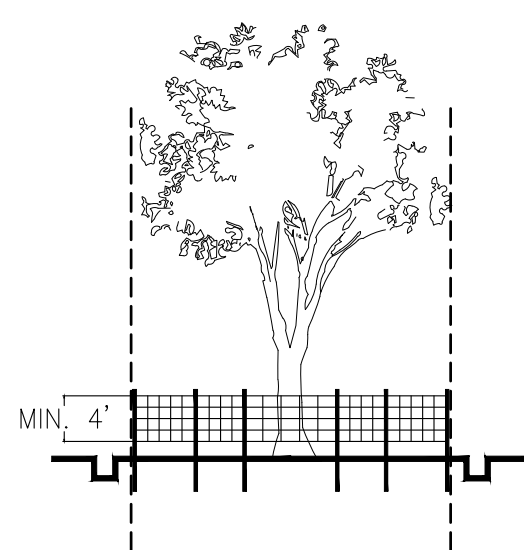
TREE PROTECTION

"SNOW" FENCE

PLAN



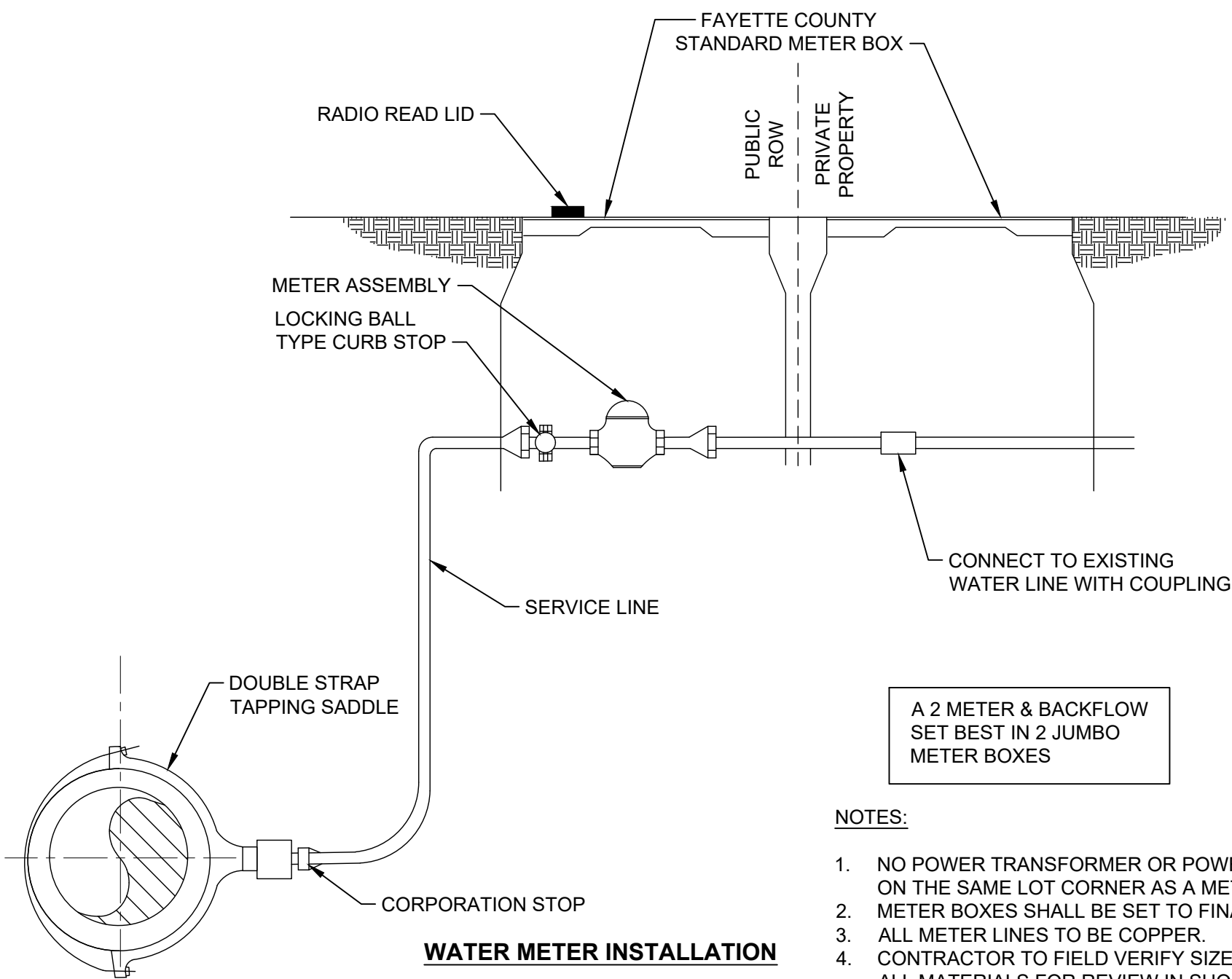
CROSS-SECTION



NOTES:

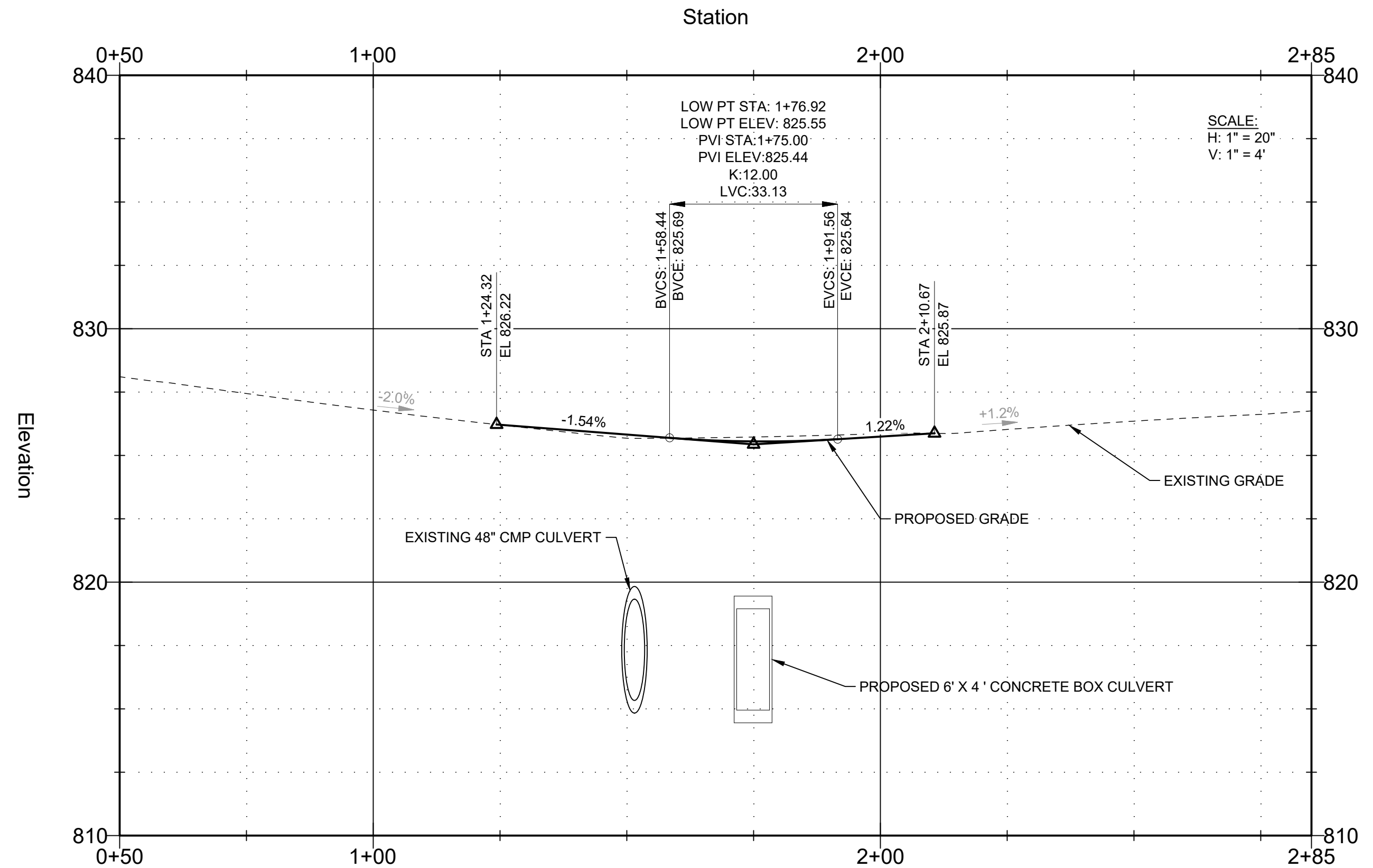
1. USE TRENCHER (I.E. DITCH WITCH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

2
-
DETAIL
SCALE: N.T.S.



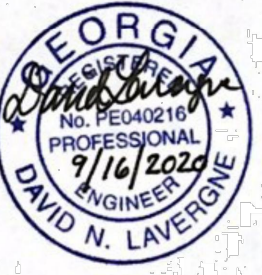
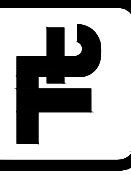
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DETAIL
SCALE: N.T.S.

ROAD CENTERLINE ALIGNMENT PROFILE



3
-
DETAIL
SCALE: N.T.S.

TETRA TECH



GSWCC LEVEL II
CERT. # 0000073529

MARK	DATE	DESCRIPTION	BY
0	02/16/18	30% SUBMITTAL	HA
1	07/13/18	60% SUBMITTAL	HA
2	10/15/18	90% SUBMITTAL	HA
3	08/14/19	100% SUBMITTAL	CG
4	03/12/20	ISSUED FOR CONSTRUCTION	CG
4	09/16/20	ISSUED FOR CONSTRUCTION	CG

FAYETTE COUNTY
SILVER LEAF DR CULVERT REPLACEMENT
CONSTRUCTION DETAILS

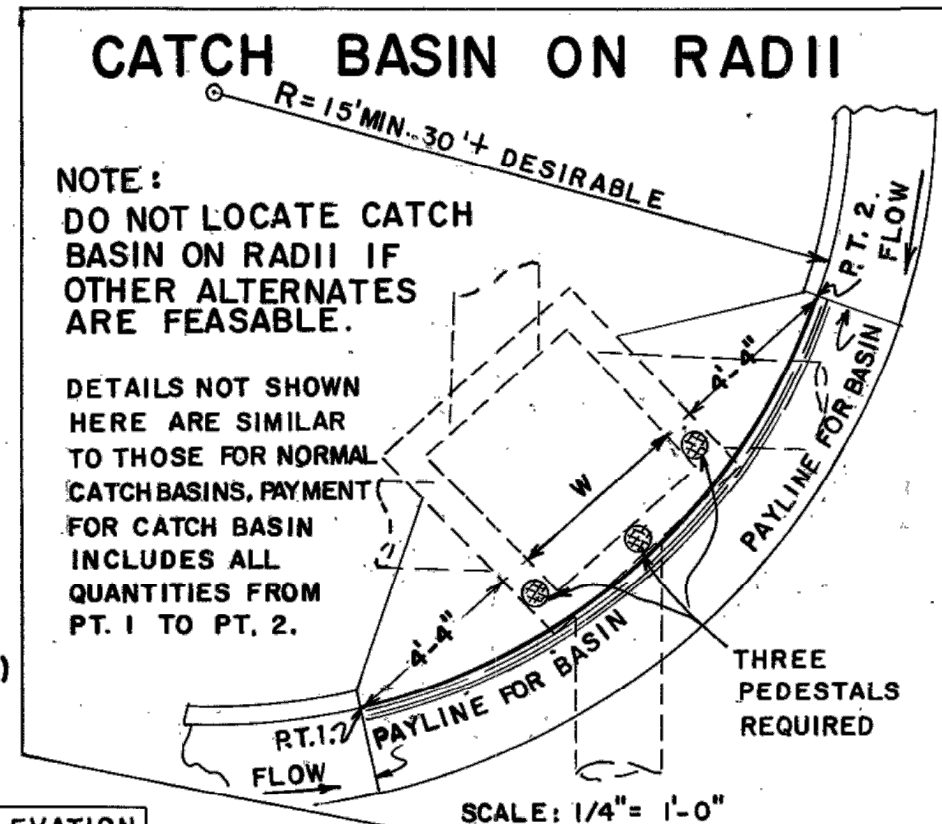
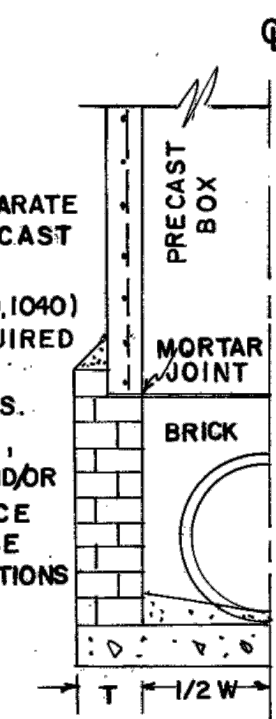
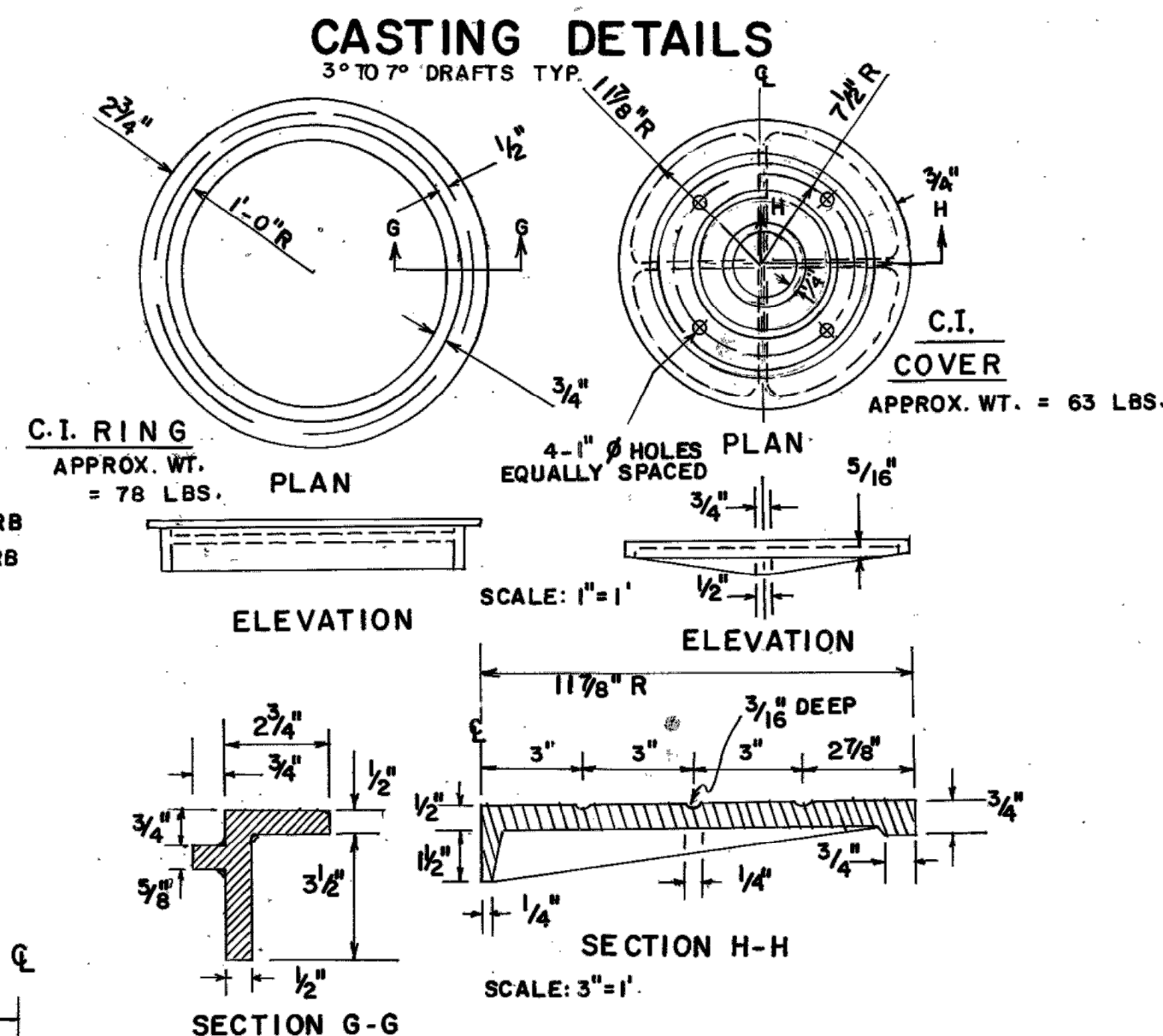
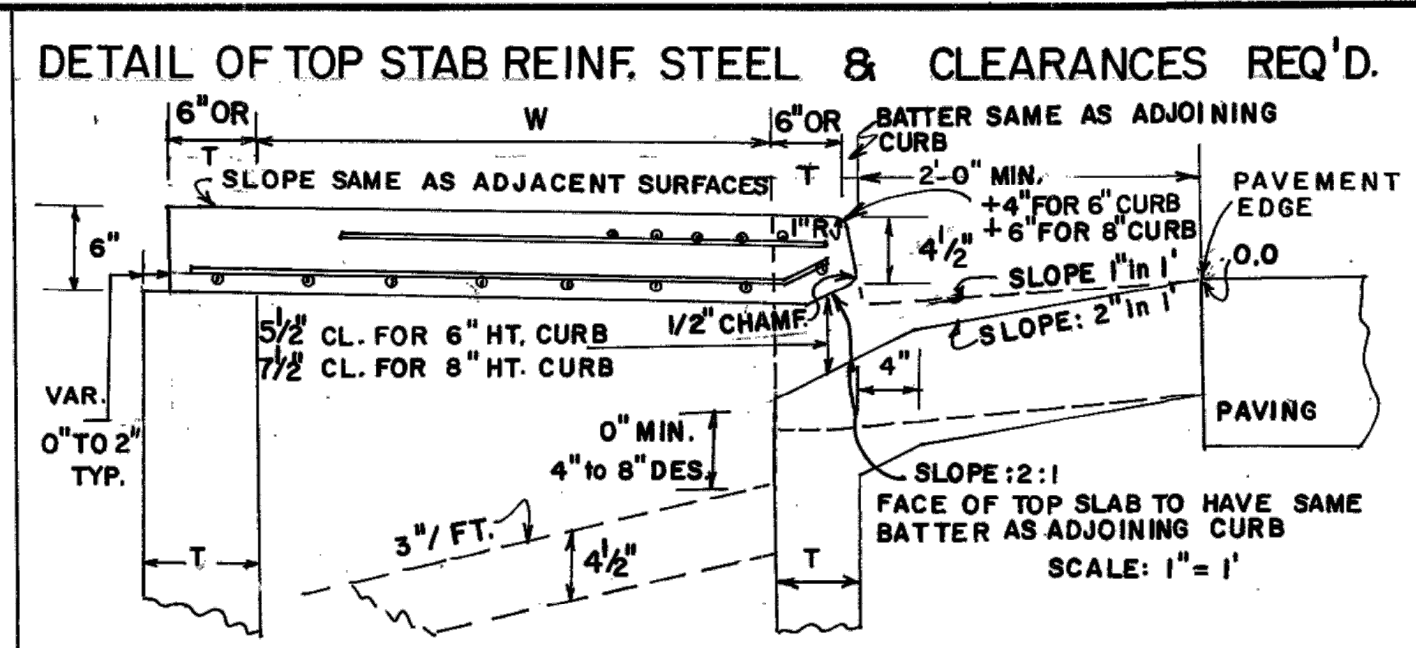
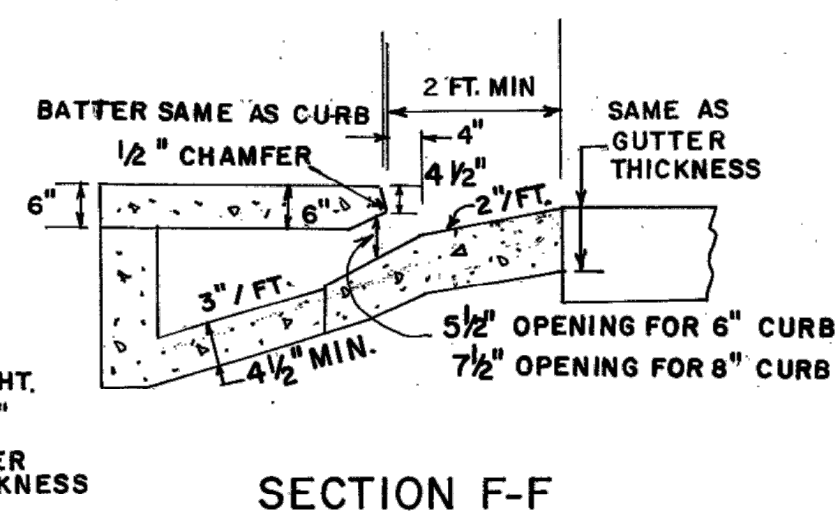
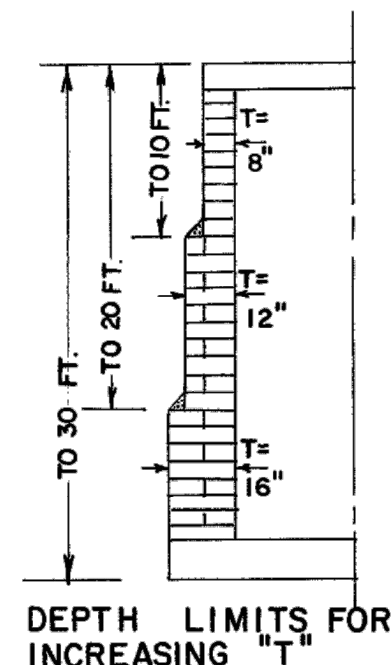
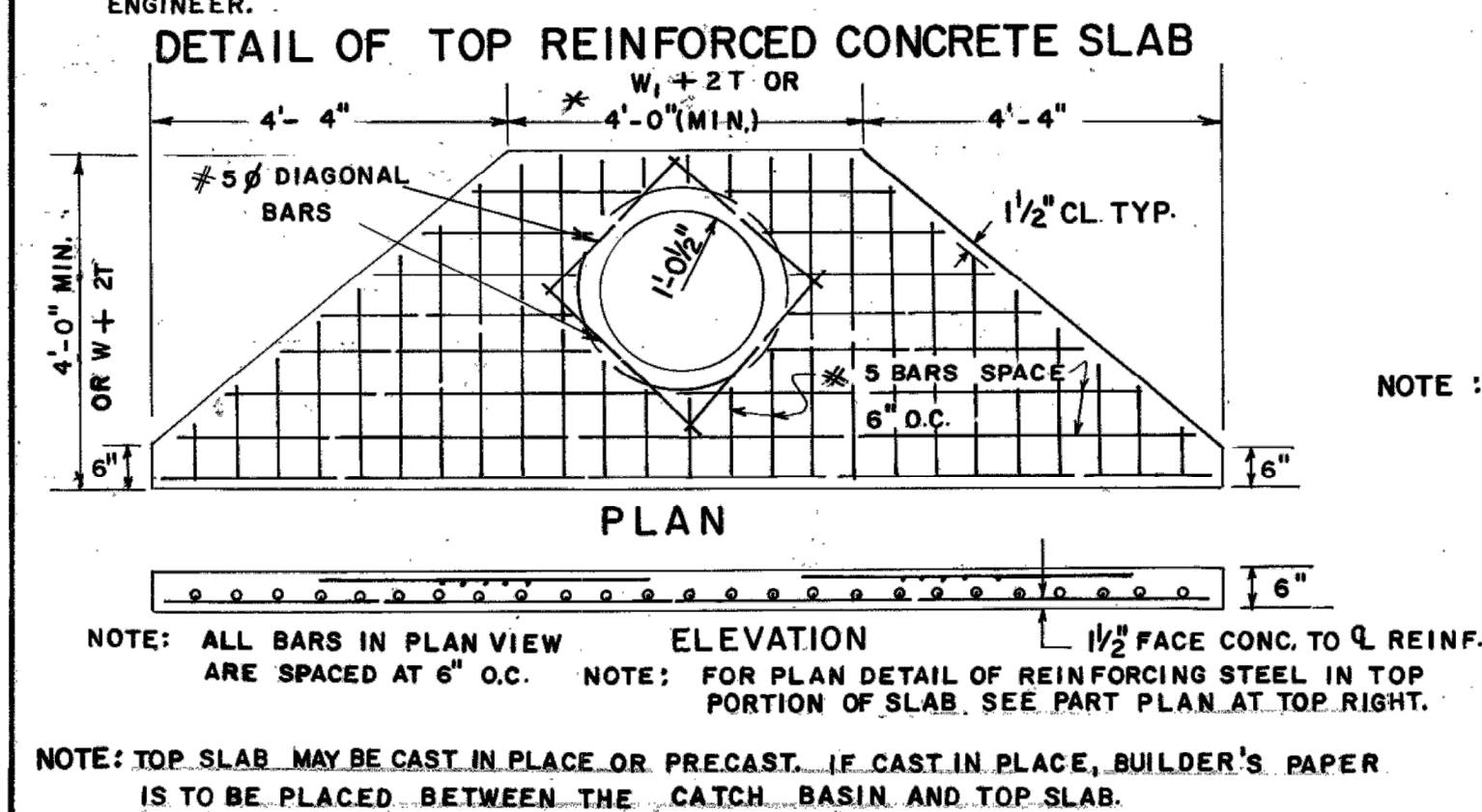
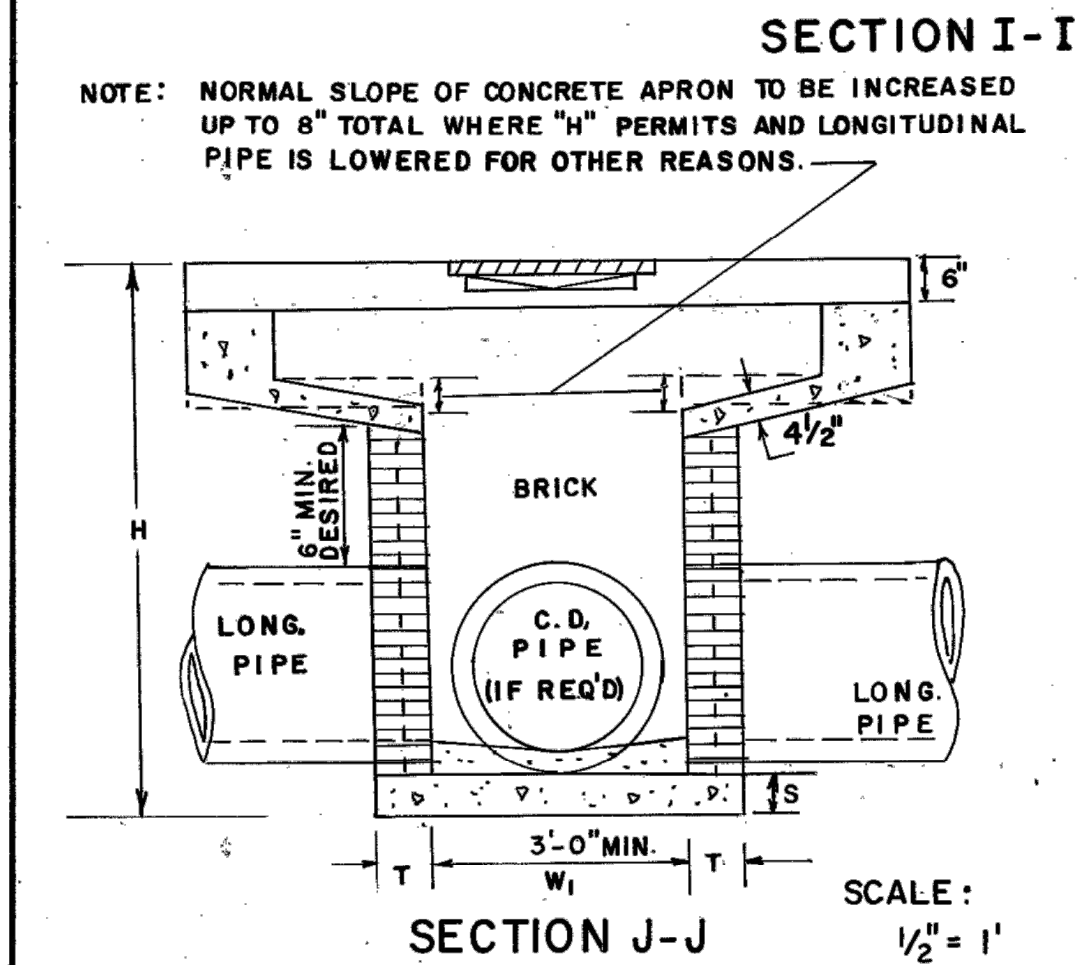
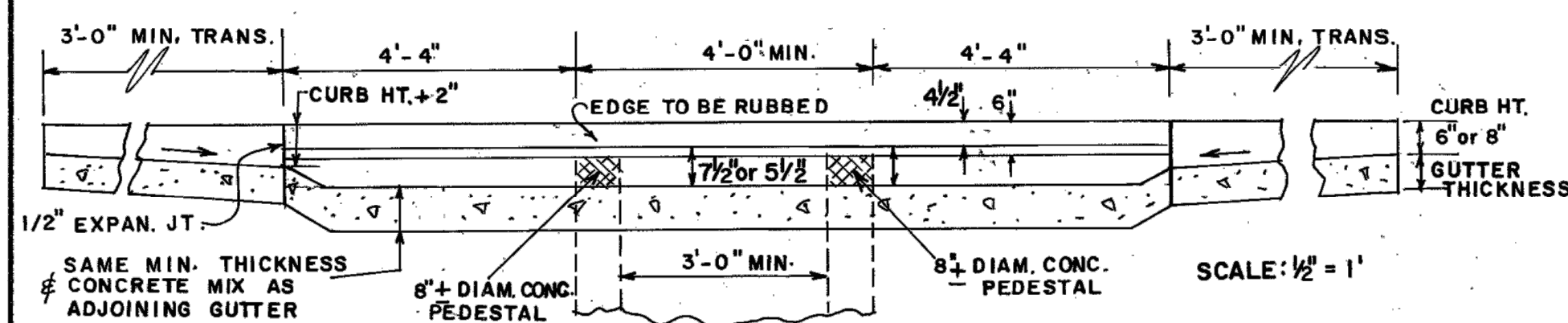
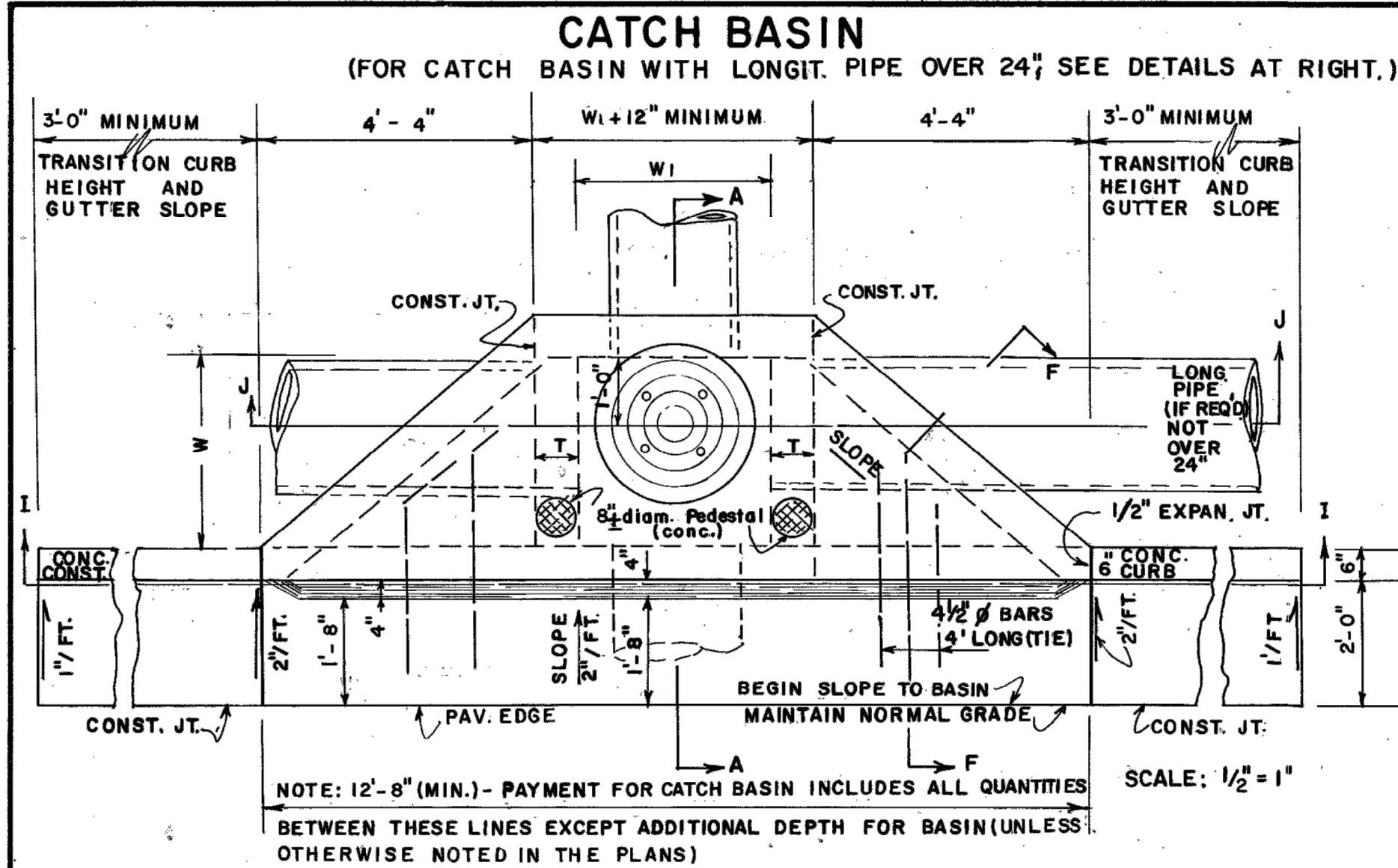
Project No.:	200-01297-18004
Designed By:	CG
Drawn By:	HA
Checked By:	DL

C-504

Bar Measures 1 inch

Copyright: Tetra Tech

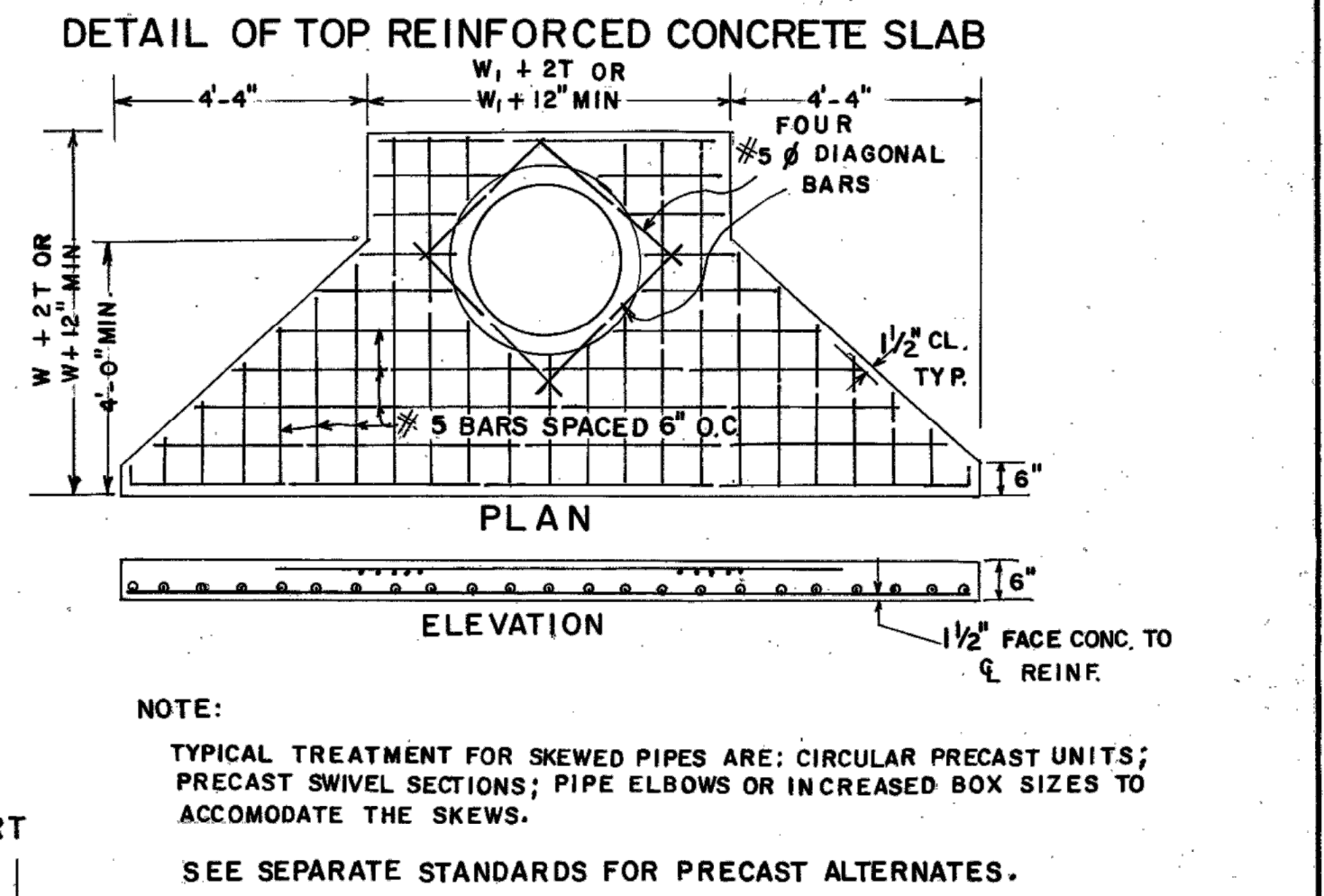
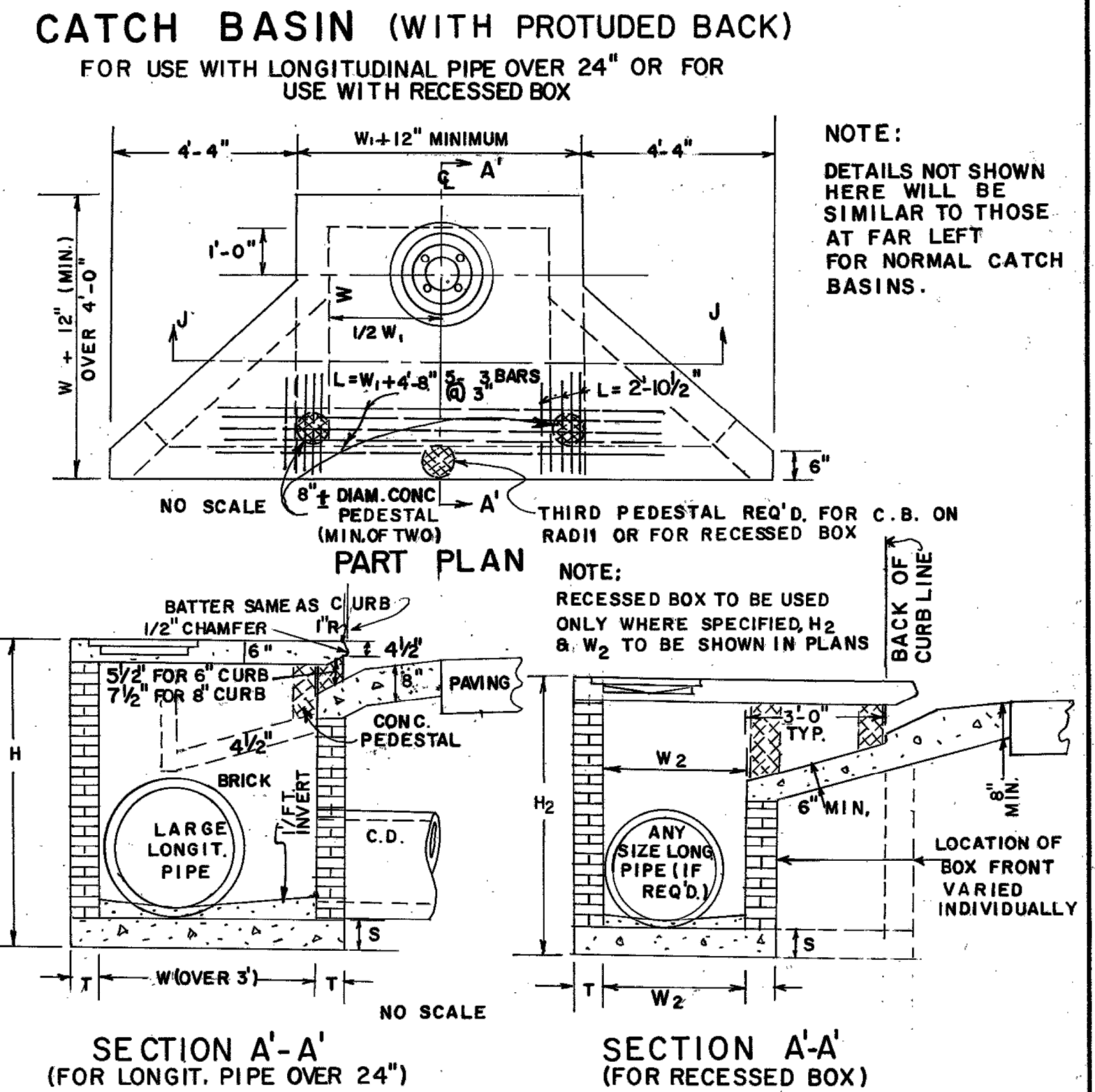
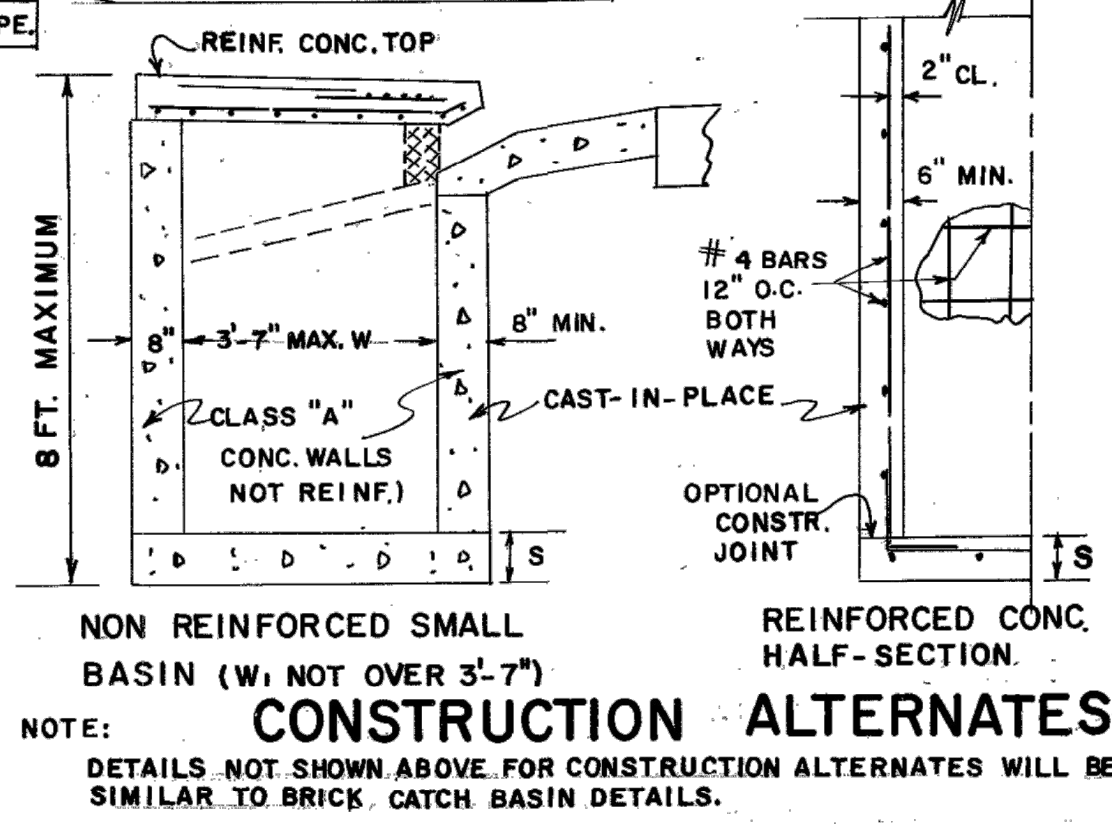
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ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

PIPE DIA.	H (MIN.)	W or W ₁	MIN. ΔE
12	4'-4"	3'-0"	3'-3"
15	4'-7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'-6"	3'-0"	4'-4"
30	6'-2"	3'-7"	5'-0"
36	6'-10"	4'-6"	5'-7"
42	7'-4"	5'-3"	5'-11"
48	8'-0"	6'-0"	6'-6"
54	8'-6"	6'-8"	7'-0"
60	9'-2"	7'-4"	7'-7"

NOTE: THE MIN. H & MIN. ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED, IF CONDITIONS PERMIT WITH VARIOUS DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W & W₁ DIMENSIONS DO NOT HAVE TO BE EQUAL.



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CATCH BASINS
FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN REV. & RED. AUGUST 1982

REV. & RED. R.M.U. (SUBMITTED) *Floyd E. Hardy* STATE ROAD & AIRPORT DESIGN ENGR.
TRA. G.M.E. (APPROVED) *Thomas D. Hardy* STATE HIGHWAY ENGINEER
CHK. R.K.C.

NUMBER 1034D

TETRA TECH

1899 POWERS FERRY ROAD SE, SUITE 400
ATLANTA, GEORGIA 30339
TEL: (770) 850-0949 FAX: (770) 850-0950

GSWCC LEVEL II
CERT. NO. 0000073529

CONSTRUCTION DETAILS

FAYETTE COUNTY
SILVER LEAF DR CULVERT REPLACEMENT

Project No.: 200-01297-18004
Designed By: CG
Drawn By: HA
Checked By: DL

C-505
Bar Measures 1 inch

EROSION CONTROL ACTIVITIES									
Co	CONSTRUCTION EXIT	DS1	DS2	DS3	DS4	DS5	DS6	DS7	DS8
DS1	SEEDING	DS2	DS3	DS4	DS5	DS6	DS7	DS8	DS9
DS1	SEEDING	DS2	DS3	DS4	DS5	DS6	DS7	DS8	DS9
DS2	SEEDING	DS3	DS4	DS5	DS6	DS7	DS8	DS9	DS10

FOR TEMPORARY PROTECTION OF CRITICAL AREAS WITHOUT SEEDING, THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECT TO EROSION FOR 6 MONTHS OR LESS, WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT WHICH CAN BE STABILIZED WITH A MULCH COVER.

MATERIALS DRY STRAW OR HAY
WOOD WASTE CHIPS SAWDUST OR BARK

INSTALLATION DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE
DEPTH OF 2 TO 3 INCHES

EROSION CONTROL MATTING OR NETTING
CUTBACK ASPHALT (SLOW CURING)
POLYETHYLENE FILM

APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
1200 GALLONS PER ACRE, OR 1/4 GALLON PER SQUARE YARD
SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM

ENTRANCE ELEVATION

NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 12".
5. PAD WIDTH SHALL BE EQUAL TO THE WIDTH OF ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2K.
7. INSTALL PIPES UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE TRENCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (OVER ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRAKES AND/OR THE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRAKE DESIGN MAY CONSIST OF ANY MATERIAL, SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS WAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CONSTRUCTION EXIT

2014 MANUAL FOR EROSION AND SEDIMENT CONTROL (GREEN BOOK) Figure 6-14.1

CO

CONSTRUCTION EXIT

2014 MANUAL FOR EROSION AND SEDIMENT CONTROL (GREEN BOOK) Figure 6-14.1

EROSION CONTROL NOTES:

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS IN THE "MANUAL FOR EROSION CONTROL AND SEDIMENT CONTROL IN GEORGIA".
2. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
3. DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED WITH TEMPORARY MULCH (DS1) OR VEGETATION (DS2). DISTURBED AREAS LEFT IDLE FOR TWO WEEKS OR MORE WILL BE ESTABLISHED WITH PERMANENT VEGETATION (DS3). ALL AREAS AT FINAL GRADE WILL BE ESTABLISHED WITH PERMANENT VEGETATION IMMEDIATELY UPON COMPLETION. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (DS3). ON SLOPES THAT ARE 2:1 OR STEEPER, MULCH WILL BE ANCHORED.
4. IN CONCENTRATED FLOW AREAS: ALL SLOPES STEEPER THAN 2.5:1, HEIGHT TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, STABILIZE WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
6. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE THIRD THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
7. THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE SOIL & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". POLYMERS USED TO STABILIZE CONSTRUCTION SITES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDROSEEDING.
8. MULCH, TEMPORARY VEGETATION, AND PERMANENT (PERENNIAL) VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE.
9. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY ENGINEER DURING CONSTRUCTION.
10. DUE TO THE NATURE AND LOCATION OF THE CONSTRUCTION ACTIVITY, PROVIDING SEDIMENT STORAGE FOR 67 CUBIC YARDS OF SEDIMENT PER ACRE DISTURBED IS NOT FEASIBLE. APPROPRIATE BMPs THAT LIMIT THE TRANSPORT OF SEDIMENT FROM THE SITE WILL BE UTILIZED. THERE BMPs INCLUDE BUT ARE NOT LIMITED TO SILT FENCE AND TEMPORARY MULCHING, GRASSING OR PERMANENT GRASSING FOR THE DISTURBED AREAS OF THE PROJECT.
11. THE EXISTING AND PROPOSED RUNOFF COEFFICIENT FOR THIS SITE IS 0.5

EROSION CONTROL CHECKLIST CERTIFICATIONS:

1. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
5. ALL STREAM BUFFER DISTURBANCES ARE ASSOCIATED WITH THE CULVERT REPLACEMENT. THE PROJECT DISTURBS LESS THAN 100 LINEAR FEET OF STREAM AND IS CLASSIFIED AS A UTILITY CROSSING. AS SUCH NO USACE PERMIT OR BUFFER VARIANCE IS ANTICIPATED. THERE ARE NO WETLAND DISTURBANCES ASSOCIATED WITH THIS PROJECT.
6. NO ALTERNATIVE BMPs WHERE USED AS PART OF THIS PROJECT.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

STRUCTURAL PRACTICES

VEGETATIVE PRACTICES

CONSTRUCTION SCHEDULE

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

UPSTREAM TERMINAL

TRANSVERSE CHECK SLOT

DOWNSTREAM TERMINAL

SEQUENTIAL ROLL OUT IN CHANNELS

PICTORIAL VIEW OF TRANSVERSE SLOT

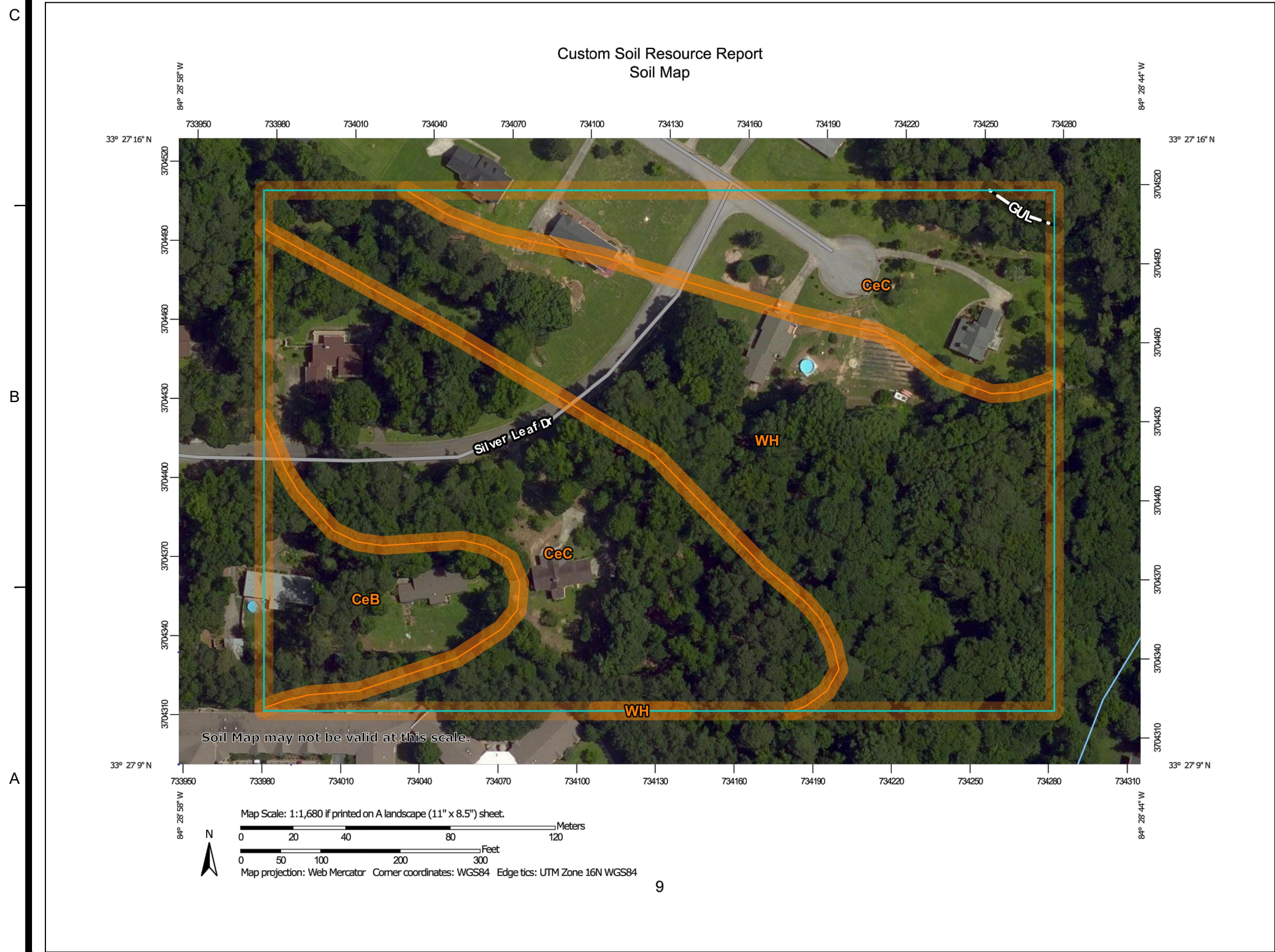
NOTES:

1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PAVED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED, SEQUENTIAL BEHIND CHANNEL CENTER TO THE CENTER LINE OF THE CHANNEL.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 2" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE STAKE.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINKS AT THE ROLL ENDS.

USGS QUAD MAP

NOT TO SCALE

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PRIMARY PERMITTEE TO BE PROVIDED AFTER PROJECT IS AWARDED.
24 HOUR EROSION CONTROL CONTACT: PHILIP MALLON (770-313-9855)

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeB	Cecil sandy loam, 2 to 6 percent slopes	1.3	9.0%
CeC	Cecil sandy loam, 6 to 10 percent slopes	7.4	50.3%
WH	Wehadkee soils, 0 to 2 percent slopes, frequently flooded	6.0	40.7%
Totals for Area of Interest		14.8	100.0%

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: TOWALIGA

Project Name: SILVER LEAF DR CULVERT REPLACEMENT Address: 175 SILVER LEAF DRIVE, FAYETTEVILLE, GA 30215
City/County: FAYETTE/FAYETTEVILLE Date on Plans: 09/16/2020

Name & email of person filling out checklist: DAVID N. LAVERGNE, DAVID.LAVERGNE@TETRA TECH.COM

Plan	Included
Page #	Y/N
C-507	Y

TO BE SHOWN ON ES&PC PLAN

- 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
- 3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- 4 Provide the name, address, email address, and phone number of primary permittee.
- 5 Note total and disturbed acreage of the project or phase under construction.
- 6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
- 7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- 8 Description of the nature of construction activity.
- 9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- 11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
- 12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *
- 13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. *
- 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV.A.5 page 26 of the permit. *
- 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
- 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
- 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
- 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *

C-506	Y
C-506	Y
C-506	Y
NA	NA
NA	NA
NA	NA
G-002	Y
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
ALL	Y
C-104	Y

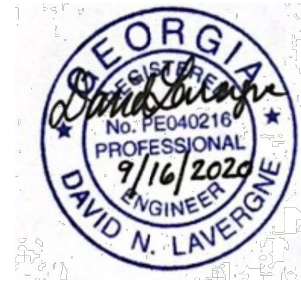
- 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
- 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
- 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
- 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
- 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
- 25 Provide BMPs for the remediation of all petroleum spills and leaks.
- 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
- 27 Description of practices to provide cover for building materials and building products on site. *
- 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
- 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
- 30 Provide complete requirements of inspections and record keeping by the primary permittee. *
- 31 Provide complete requirements of sampling frequency and reporting of sampling results. *
- 32 Provide complete details for retention of records as per Part IV.F. of the permit. *
- 33 Description of analytical methods to be used to collect and analyze the samples from each location. *
- 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
- 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
- 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
- 37 Graphic scale and North arrow.
- 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1": 400' Centerline Profile

C-506	N
NA	NA
C-105	Y
C-506	Y
C-506	Y
C-506	Y
C-104	Y
C-506	Y
C-105	Y
C-506	Y
C-105 & C-506	Y
C-506	Y
C-105 & C-506	Y

- 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
- 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
- 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
- 42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
- 43 Delineation and acreage of contributing drainage basins on the project site.
- 44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
- 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
- 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- 47 Soil series for the project site and their delineation.
- 48 The limits of disturbance for each phase of construction.
- 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
- 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
- 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.
- * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2020



GSWCC LEVEL II
CERT. # 0000073529

MARK	DATE	DESCRIPTION	BY
0	02/16/18	30% SUBMITTAL	HA
1	07/13/18	60% SUBMITTAL	HA
2	10/15/18	80% SUBMITTAL	HA
3	08/14/19	100% SUBMITTAL	CG
4	03/12/20	ISSUED FOR CONSTRUCTION	CG
4	09/16/20	ISSUED FOR CONSTRUCTION	CG

FAYETTE COUNTY
SILVER LEAF DR CULVERT REPLACEMENT
ESPC PLAN

Project No.:	200-01297-18004
Designed By:	CG
Drawn By:	HA
Checked By:	DL

C-507