

# CIVIL CONSTRUCTION DOCUMENTS FOR FAYETTE COUNTY DOWNING COURT - CULVERT REPLACEMENT

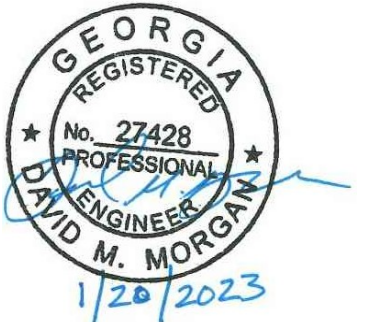
LAND LOT 169, 5TH DISTRICT, FAYETTE COUNTY, GA.

NOVEMBER 30, 2022

100% DESIGN SUBMITTAL

COUNTY PROJECT NUMBER: 19SBQ

EOR/AOR SEAL



CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME

DOWNING COURT  
CULVERT  
REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE  
12/12/2022

DESCRIPTION  
100% DESIGN PLANS

MARK

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

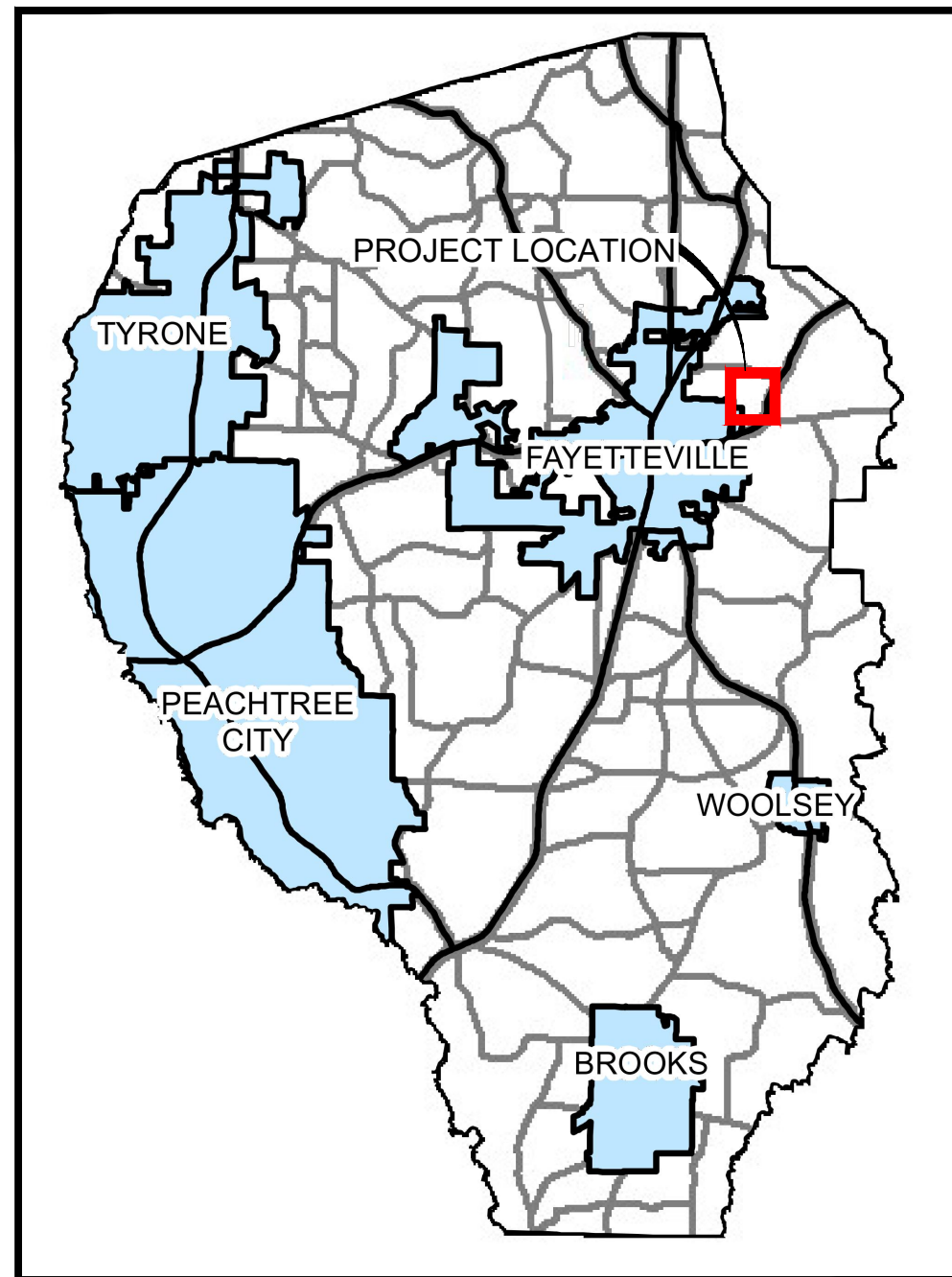
CIVIL COVER  
SHEET

SHEET NUMBER

G-001

SHEET 1 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"



VICINITY MAP  
SCALE: NTS



CLIENT INFORMATION	
OWNER CONTACT (24-HR): PHIL MALLON PHONE (770) 313-9855 publicworks@FayetteCountyGA.GOV	CLIENT INFORMATION: FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT 140 STONEWALL AVE. W., SUITE 203, FAYETTEVILLE, GA. 30214
CIVIL DESIGN TEAM	
PROJECT MANAGER: DAVID MORGAN, P.E. MorganD@pondco.com CIVIL ENGINEER: DAVID MORGAN, P.E.	POND AND COMPANY 3500 PARKWAY LANE SUITE 500 PEACHTREE CORNERS, GA 30092 PHONE (678) 336-7740 FAX (678) 336-7744 WEB: www.pondco.com

IT IS THE OWNER'S/DEVELOPER'S RESPONSIBILITY TO BE IN COMPLIANCE WITH APPLICABLE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND CLEAN WATER ACT REQUIREMENTS.

**PROJECT DESCRIPTION:**  
THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED 30-INCH DIAMETER CMP CULVERT. THE CULVERT IS TO BE REPLACED WITH A 40 LINEAR FOOT 30-INCH DIAMETER RCP CULVERT.

**PROJECT INFORMATION:**

**DISTURBED AREA:**  
0.08 ACRES

**IMPERVIOUS SURFACE AREA:**  
0.01 ACRES

**REFERENCE DATUM:**  
HORIZONTAL: NAD 1983 (2011) - STATE PLANE COORDINATE SYSTEM OF GEORGIA - WEST ZONE.  
VERTICAL: NAVD 1988.

**PROJECT SPECIFICATION:**  
THE CONTRACTOR SHALL REFER TO AND USE THE SUPPLIED COUNTY PROJECT SPECIFICATIONS. FOR OTHER APPLICABLE STANDARDS OR SPECIFICATIONS, CONTRACTOR TO USE THE CURRENT GDOT APPROVED STANDARD SPECIFICATION CONSTRUCTION OF TRANSPORTATION SYSTEM DOCUMENT FOR THIS PROJECT.

UTILITY NOTIFICATION/RELOCATION CHECKBOX				
UTILITY COMPANY	PLAN PHASE	CONTACT	DATE NOTIFIED	UTILITY RESPONSE
SOUTHERN COMPANY	35% DESIGN	MFLOYD@SOUTHERNCO.COM WCBRITTI@SOUTHERNCO.COM X2KSTEPH@SOUTHERNCO.COM	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/27/2022	NO RESPONSE
FAYETTE COUNTY WATER SYSTEM (FCWS)	35% DESIGN	JAMES ROSSER (JROSSER@FAYETTECOUNTYGA.GOV)	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		2/28/2023	RELOCATION
COMCAST	35% DESIGN	REGINALD ARNEY (REGINALD_ARNEY@COMCAST.COM)	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/27/2022	NO RESPONSE
COWETA-FAYETTE EMC	35% DESIGN	STEVE JONES (STJONES@UTILITY.ORG)	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/27/2022	NO RESPONSE
ATT	35% DESIGN	ANDRE WALTON AW9750@ATT.COM	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/27/2022	NO RESPONSE
ZAYO	35% DESIGN	ZAYOGEORGIARELOCATIONS@COBBFENDLEY.COM	12/9/2021	NO RESPONSE
	65% DESIGN		5/31/2022	NO FACILITIES LETTER RECEIVED
	95% DESIGN		NA	



Know what's below.  
Call before you dig.  
Dial 811  
Or Call 800-282-7411



# ABBREVIATIONS

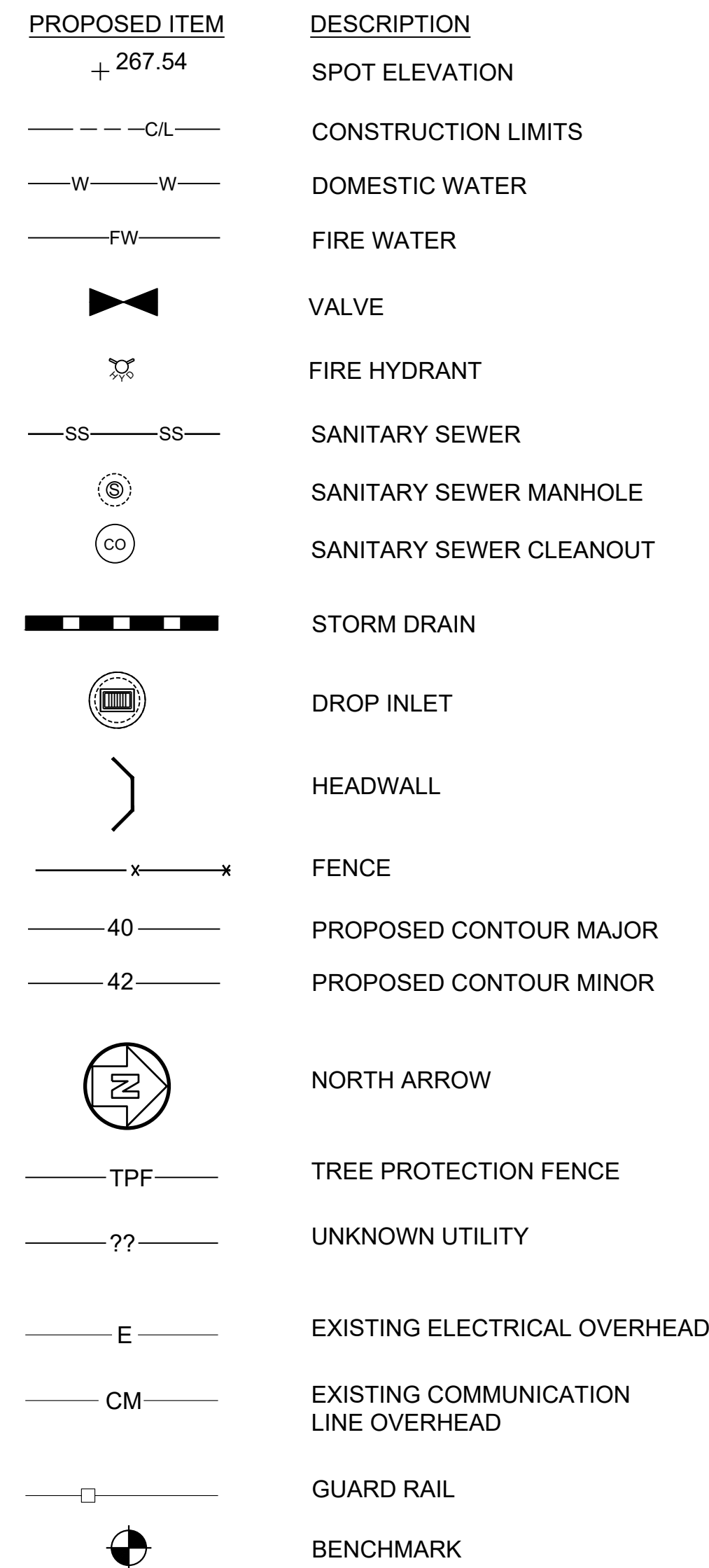
**A**  
 AAP ALARM ANNUNCIATOR PANEL AUTOMATIC  
 AARV AIR RELEASE VALVE AUTOMATIC  
 AAV AIR VALVE  
 AB ANCHOR BOLT  
 ABAN ABANDON(ED)  
 ABRSV ABRASIVE  
 ABS ACRYLONITRILE BUTADIENE STYRENE  
 ABV ABOVE  
 AC ALTERNATING CURRENT  
**D** ACCMP ASPHALT-COATED CORRUGATED METAL PIPE  
 ACP ASBESTOS CEMENT PIPE  
 ADDM ADDENDUM  
 ADH ADHESIVE  
 AFF ABOVE FINISHED FLOOR  
 AFG ABOVE FINISHED GRADE  
 AFS ABOVE FINISHED SLAB  
 AHD AHEAD  
 AL ALUMINUM  
 ALT ALTERNATE  
 AMP AMPERE  
 AMT AMOUNT  
 APRX APPROXIMATE(LY)  
 ARCH ARCHITECT(URAL)  
 AS ALUM SOLUTION  
 ASPH ASPHALT  
 ASSY ASSEMBLY  
 AVE AVENUE  
 A/C AIR CONDITIONING  
 A/VV AIR/VACUUM AIR VALVE  
  
**B**  
 BAF BAFFLE  
 BCV BALL CHECK VALVE  
 BF BLIND FLANGE  
 BFV BUTTERFLY VALVE  
 BHP BRAKE HORSEPOWER  
 BI BIT  
 BITUM BITUMINOUS OR BITUMASTIC  
**C** BLDG BUILDING  
 BLK BLOCK  
 BM BENCH MARK  
 BOC BACK OF CURB  
 BOT BOTTOM  
 BP BASE PLATE  
 BRG BEARING  
 BSP BLACK STEEL PIPE  
 BV BALL VALVE  
 BW BOTH WAYS  
 BWW BACKWASH WATER  
  
**C**  
 CAP CAPACITY  
 CA COMPRESSED AIR  
 CAV COMBINATION AIR VALVE  
 CB CATCH BASIN  
 CCC CHLORINE CONTACT CHAMBER  
 CE CHLORINATED EFFLUENT  
 CFM CUBIC FEET PER MINUTE  
 CFS CUBIC FEET PER SECOND  
 CV CHECK VALVE  
 CI CAST IRON  
 CIP CAST IRON PIPE  
 CISP CAST IRON SOIL PIPE  
 CJ CONSTRUCTION JOINT  
 CKT CIRCUIT  
 CL CENTER LINE  
 CL2 CHLORINE GAS  
 CLF CHAIN LINK FENCE  
 CLR CLEAR OR CLEARANCE  
 CLVT CULVERT  
 CMP CORRUGATED METAL PIPE  
 CMPA CORRUGATED METAL PIPE ARCH  
 CMU CONCRETE MASONRY UNIT  
 CND CONDUIT  
 CNR CORNER  
 CO CLEAN OUT  
 CO2 CARBON DIOXIDE  
 COAG COAGULANT  
 COL COLUMN  
 COM COMMON  
 CONC CONCRETE  
 CONN CONNECTION  
 CONSTR CONSTRUCTION(ION)  
 CONT CONTINUOUS  
 CONTR CONTRACT(OR)  
 COORD COORDINATE  
 CO COMPANY  
 CP CONCRETE PIPE  
 CPA CONCRETE PIPE ARCH  
 CPLG COUPLING  
 CPVC CHLORINATED POLYVINYL CHLORIDE  
 CR CONCENTRIC REDUCER  
 CS CHLORINE SOLUTION  
 CSG CASING  
 CTV CABLE TELEVISION  
 CY CUBIC YARD  
 CYL CYLINDER  
 C&G CURB AND GUTTER  
 C/C CENTER TO CENTER  
  
**D**  
 DAT DATUM  
 DBL DOUBLE  
 DC DIRECT CURRENT  
 DEMO DEMOLITION  
 DEPT DEPARTMENT  
 DESC DESCRIPTION  
 DET DETAIL  
 DF DIESEL FUEL  
 DI DUCTILE IRON  
 DIA DIAMETER  
 DIFF DIFFUSER  
 DIM DIMENSION  
 DIP DUCTILE IRON PIPE  
 DISCH DISCHARGE  
 DIR DIRECTION  
 DMH DROP MANHOLE  
 DN DOWN  
 DR DRAIN  
 DV DIAPHRAGM VALVE  
 DW DRIVEWAY  
 DWG DRAWING  
 DWV DRAIN, WASTE, AND VENT

**E**  
 EAST  
 EA EACH  
 ECC ECCENTRIC  
 EF EACH FACE  
 EFF EFFLUENT  
 EL EASEMENT LINE  
 EL ELEVATION  
 ELAST ELASTOMERIC  
 ELEC ELECTRICAL  
 EMER EMERGENCY  
 EMC ENCASE(MENT)  
 ENGR ENGINEER  
 EP EDGE OF PAVEMENT  
 EPDM ETHYLENE PROPYLENE DIENE MONOMER  
 EPRF EXPLOSION PROOF EQUIPMENT  
 ER ECCENTRIC REDUCER  
 ESTM EASEMENT  
 EST ESTIMATE(D)  
 EW EACH WAY  
 EXC EXCAVATE  
 EXP EXPANSION  
 EXST EXISTING  
 EXT EXTERIOR  
 EXTN EXTENSION  
  
**F**  
 FAB FABRICATE(D)  
 FCA FLANGED COUPLING ADAPTER  
 FB FLAT BAR  
 FCV FLOW CONTROL VALVE  
 FD FLOOR DRAIN  
 FDN FOUNDATION  
 FE FILTER(ED) EFFLUENT  
 FHY FIRE HYDRANT  
 FIG FIGURE  
 FIN FINISHED  
 FINFLR FINISH FLOOR  
 FINGR FINISH GRADE  
 FL FLUORIDE  
 FLG FLANGE(D)  
 FLL FLOW LINE  
 FLTR FILTER  
 FM FORCE MAIN  
 FPM FEET PER MINUTE  
 FPS FEET PER SECOND  
 FRP FIBERGLASS REINFORCED PLASTIC  
 FT FOOT OR FEET  
 FUT FUTURE  
 FV FOOT VALVE  
 FW FINISHED WATER  
 FWP FACTORY WIRED PANEL  
 F/F FACE TO FACE  
  
**G**  
 GA GAUGE  
 GAL GALLON(S)  
 GALV GALVANIZED  
 GALS GALVANIZED IRON PIPE  
 GIP GROOVE JOINT  
 GJ CAST IRON  
 GND GROUND  
 GPD GALLONS PER DAY  
 GPH GALLONS PER HOUR  
 GPM GALLONS PER MINUTE  
 GPS GALLONS PER SECOND  
 GR GRADE  
 GRGT GRATING  
 GS GALVANIZED STEEL  
 GSP GALVANIZED STEEL PIPE  
 GSR GROUND STORAGE RESERVOIR  
 GST GROUND STORAGE TANK  
 GT GROUT  
 GV GATE VALVE  
  
**H**  
 HB HOSE BIBB  
 HD HEAVY-DUTY  
 HDPE HIGH-DENSITY POLYETHYLENE  
 HDR HYDRAULIC  
 HGR HYDROFLUOSILICIC ACID  
 HGT HANGER  
 HNDRL HAND RAIL  
 HOA HAND-OFF-AUTO  
 HORIZ HORIZONTAL  
 PRV HORSEPOWER  
 HPA HIGH PRESSURE AIR  
 HOUR  
 HVAC HEATING, VENTILATION, AND AIR CONDITIONING  
 HWL HIGH WATER LEVEL  
 HWY HIGHWAY  
 HZ HERTZ  
  
**I**  
 ID INSIDE DIAMETER  
 IN INCH(ES)  
 INF INFLUENT  
 INT INTERSECTION  
 INV INTERIOR  
 IP INVERT  
 IPS IRON PIPE  
 IR INTERNATIONAL PIPE STANDARD  
 IRR INTERNAL RECYCLE IRRIGATION WATER  
  
**J**  
 JB JUNCTION BOX  
 JT JOINT  
  
**K**  
 KIP KIP (1,000 LB)  
 KPL KICK PLATE  
 KV KILOVOLT  
 KVA KILOVOLT-AMPERE  
 KW KILOWATT  
 KWH KILOWATT-HOUR  
  
**L**  
 LAB LABORATORY  
 LAM LAMINATE OR LAMINATION  
 LATL LATERAL  
 LAV LAVATORY

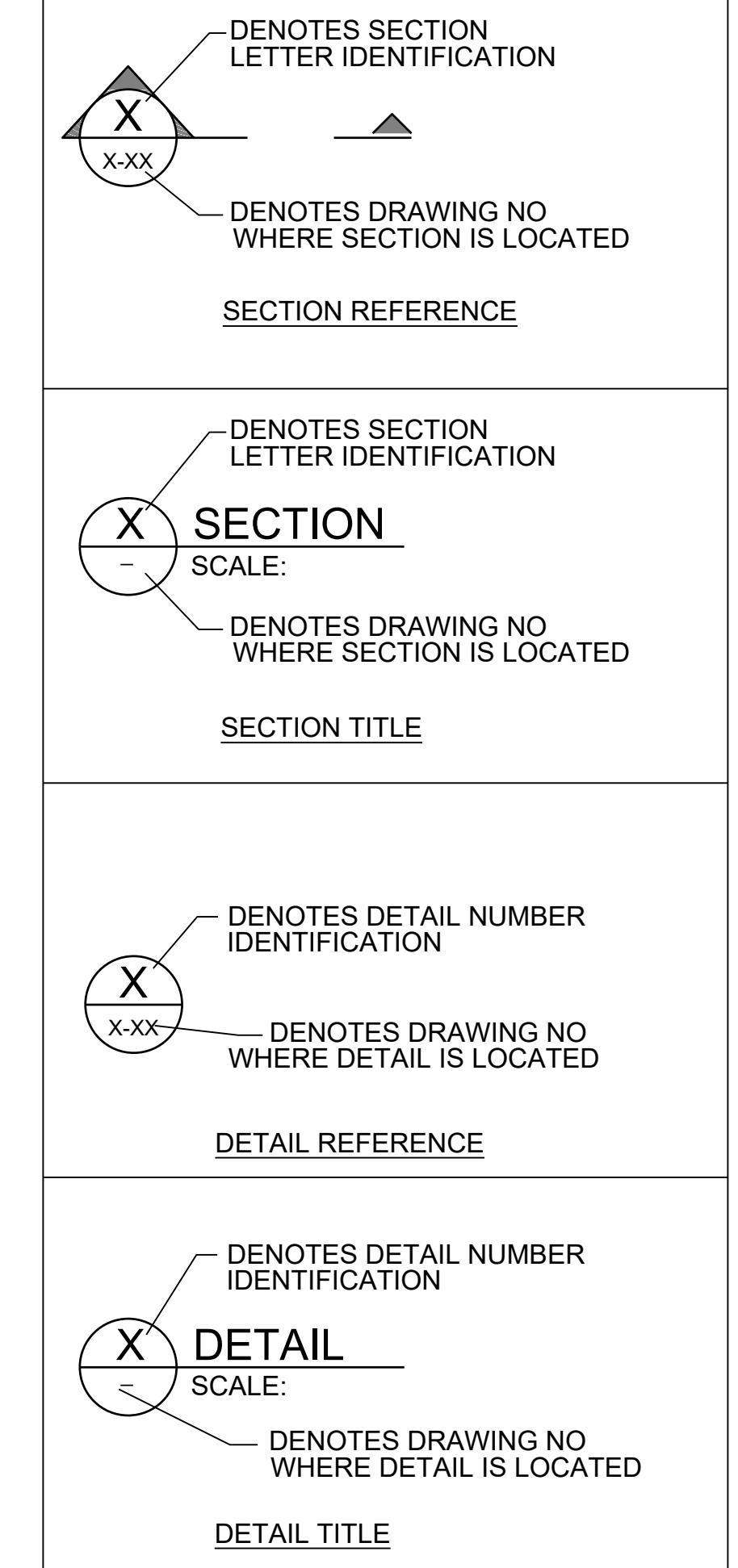
**LEN**  
 LEN LENGTH  
 LB POUND(S)  
 LF LINEAR FEET  
 LP LIGHT POLE  
 LS LINE SLURRY  
 LSS LINE STABILIZED SLUDGE  
 LVR LOUVER  
 LWL LOW WATER LEVEL  
  
**M**  
 M METER  
 MAINT MAINTAIN OR MAINTENANCE  
 MAN MANUAL(LY)  
 MAS MASONRY  
 MATL MATERIAL  
 MAX MAXIMUM  
 MCC MOTOR CONTROL CENTER  
 ME MITERED END  
 MECH MECHANICAL  
 MEG MATCH EXISTING GRADE  
 MFR MANUFACTURE(R)  
 MG MILLION GALLONS  
 MGD MILLION GALLONS PER DAY  
 MH MANHOLE  
 MI MILES(S)  
 MIN MINIMUM, MINUTE(S)  
 MISC MISCELLANEOUS  
 MJ MECHANICAL JOINT  
 ML MIXED LIQUOR  
 MO MASONRY OPENING  
 MON MONUMENT  
 MPH MILES PER HOUR  
 MPT MALE PIPE THREAD  
 MS MOTOR STARTER  
 MSP MOTOR STARTER PANEL  
 MTD MOUNTED  
 MV MOTORIZED VALVE  
 MW MANWAY  
 MWL MEAN WATER LEVEL  
 MWP MAXIMUM WORKING PRESSURE  
  
**N**  
 NORTH  
 NaOCl SODIUM HYPOCHLORITE  
 NE NORTHEAST  
 NIC NOT IN CONTRACT  
 NO NUMBER  
 NOM NOMINAL  
 NPT NATIONAL PIPE THREAD  
 NPW NATIONAL PIPE TAPER (THREAD)  
 NRS NON-POTABLE WATER  
 NRS NON-RISING SYSTEM  
 NTS NOT TO SCALE  
 NW NORTHWEST  
 N/A NOT APPLICABLE  
  
**O**  
 O2 OXYGEN  
 OC ON CENTER  
 OD OUTSIDE DIAMETER  
 ODP OPEN DRIP PROOF  
 OF OUTSIDE FACE  
 OH OVER HEAD  
 OHW OVER HEAD WIRE  
 OPP OPPOSITE  
 OPT OPTIONAL  
 OR OFFICIAL RECORDS  
 OSY OUTSIDE SCREW AND YOKE  
 O&M OPERATION AND MAINTENANCE  
  
**P**  
 PA PROCESS AIR  
 PC POINT OF CURVE  
 PCM PERMANENT CONTROL MONUMENT PLAIN  
 PE END  
 PG PRESSURE GAGE  
 PI POINT OF INTERSECTION  
 PL PLATE  
 P/L PROPERTY LINE  
 PNV PINCH VALVE  
 POB POINT OF BEGINNING  
 POJ PUSH-ON JOINT  
 POL POLYMER  
 PPD POWER POLE  
 PPM POUNDS PER DAY  
 PPS PARTS PER MILLION  
 PREFAB PREFABRICATED  
 PRESS PRESSURE  
 PRESS PRESSURE REDUCING VALVE  
 PRW PROCESS WATER  
 PSF POUNDS PER SQUARE FOOT  
 PSI POUNDS PER SQUARE INCH  
 PSIA POUNDS PER SQUARE INCH ABSOLUTE  
 PSIG POUNDS PER SQUARE INCH GAGE POINT OF TANGENCY  
 PV PLUG VALVE  
 PVC POLYVINYL CHLORIDE  
 PVMT PAVEMENT  
 PW POTABLE WATER  
 PWR PWR POWER  
  
**Q**  
 Q FLOW QUANTITY  
  
**R**  
 RAD RADIUS  
 RAS RETURN ACTIVATED SLUDGE  
 RC REINFORCED CONCRETE  
 RCB REINFORCED CONCRETE BOX  
 RCP REINFORCED CONCRETE PIPE  
 RCPA REINFORCED CONCRETE PIPE ARCH  
 RD ROAD  
 REDUCER  
 RDR REBAR REINFORCING STEEL REF  
 REF REFERENCE  
 REINF REINFORCE(D)(ING)(MENT)  
 REM REMOVE(ABLE)  
 REQD REQUIRED  
 RF RAISED FACE  
 RF RESTRAINED JOINT  
 RM ROOM  
 RBPB REDUCED PRESSURE BACKFLOW PREVENTER  
  
**RPM**  
 RPM REVOLUTIONS PER MINUTE  
 RR RAILROAD  
 RT RIGHT  
 RVT RIVETED  
 RW RAW WATER  
 RWW RAW WASTEWATER  
 R/W RIGHT-OF-WAY  
  
**S**  
 S SOUTH  
 SA SAMPLE LINE  
 SAN SANITARY  
 SCHEDULE SCHEDULE  
 SD STORM DRAIN  
 SE SOUTHEAST  
 SECT SECTION  
 SEFF SECONDARY EFFLUENT  
 SF SQUARE FOOT OR FEET  
 SHT SHEET(ED)(ING)  
 SIG SIGNAL  
 SIM SIMILAR  
 SL SLUDGE  
 SLV SLEEVE  
 SM SHEET METAL  
 SOLN SOLUTION  
 SP SOIL PIPE, SPACE(ING)  
 SPEC SPECIFICATION  
 SPRT SUPPORT  
 SQ SQUARE  
 SS SANITARY SEWER  
 SSE SUBSTANDARD EFFLUENT  
 SST STAINLESS STEEL  
 ST STREET  
 STA STATION  
 STD STANDARD  
 STK STAKE  
 STL STEEL  
 STR STRAIGHT  
 STRUCT STRUCTURAL  
 SURF SURFACE  
 SV SOLENOID VALVE  
 SVCE SERVICE  
 SVW SERVICE WATER  
 SW SOUTHWEST  
 SWD SIDEWATER DEPTH  
 SWSH SURFACE WASH  
 SYM SYMBOL  
 SYMM SYMMETRICAL  
 S/W SIDEWALK  
  
**T**  
 TAN TB TANGENT TOP OF BEAM  
 TBM TEMPORARY BENCH MARK TEST  
 TB-xx BORING-xx (e.g. TB-1)  
 TD TRENCH DRAIN  
 TDH TOTAL DYNAMIC HEAD  
 TE TOTALLY ENCLOSED  
 TEFC TOTALLY ENCLOSED FAN COOLED  
 TEL TELEPHONE  
 TENV TOTALLY ENCLOSED NON-VENTILATED  
 THD THREADED  
 THK THICKNESS  
 TLM TOWER  
 TOB TOP OF BANK  
 TOC TOP OF CURB  
 TOS TOE OF SLOPE  
 TOT TOTAL  
 TP TELEPHONE POLE  
 TS THICKENED SLUDGE  
 TV TELEVISION  
 TYP TYPICAL  
 T&B TOP AND BOTTOM  
  
**U**  
 UD UNDERDRAIN  
 UG UNDERGROUND  
 ULT ULTIMATE  
 UN UNION  
 UON UNLESS OTHERWISE NOTED  
 UGE UNDERGROUND ELECTRIC  
 UTC UNDERGROUND TELEPHONE CABLE  
 UTIL UTILITY  
  
**V**  
 V VOLT(S)  
 VAC VACUUM  
 VAR VARIES  
 VC VERTICAL CURVE  
 VCP VITRIFIED CLAY PIPE  
 VEL VELOCITY  
 VERT VERTICAL  
 VFD VARIABLE FREQUENCY DRIVE  
 VOL VOLUME  
  
**W**  
 W WATT, WEST  
 WAS WASTE ACTIVATED SLUDGE WALL  
 WCO CLEAN OUT  
 WF WIDE FLANGE  
 WH WALL HYDRANT  
 WL WATER LINE  
 WM WATER MAIN  
 WP WATER PROOF(ING), WORKING POINT  
 WPR WORKING PRESSURE  
 WS WATER SURFACE  
 WSP WELDED STEEL PIPE  
 WT WEIGHT  
 WTP WATER TREATMENT PLANT  
 WW WASH WATER  
 WWF WELDED WIRE FABRIC  
 WWM WELDED WIRE MESH  
 WWTP WASTEWATER TREATMENT PLANT  
 W/ WITH  
 W/O WITHOUT  
  
**X**  
 XFER TRANSFER  
  
**Y**  
 YD YD YARD(S)  
 YH YARD HYDRANT  
 YR YEAR(S)

**RPM**  
 RPM REVOLUTIONS PER MINUTE  
 RR RAILROAD  
 RT RIGHT  
 RVT RIVETED  
 RW RAW WATER  
 RWW RAW WASTEWATER  
 R/W RIGHT-OF-WAY  
  
**S**  
 S SOUTH  
 SA SAMPLE LINE  
 SAN SANITARY  
 SCHEDULE SCHEDULE  
 SD STORM DRAIN  
 SE SOUTHEAST  
 SECT SECTION  
 SEFF SECONDARY EFFLUENT  
 SF SQUARE FOOT OR FEET  
 SHT SHEET(ED)(ING)  
 SIG SIGNAL  
 SIM SIMILAR  
 SL SLUDGE  
 SLV SLEEVE  
 SM SHEET METAL  
 SOLN SOLUTION  
 SP SOIL PIPE, SPACE(ING)  
 SPEC SPECIFICATION  
 SPRT SUPPORT  
 SQ SQUARE  
 SS SANITARY SEWER  
 SSE SUBSTANDARD EFFLUENT  
 SST STAINLESS STEEL  
 ST STREET  
 STA STATION  
 STD STANDARD  
 STK STAKE  
 STL STEEL  
 STR STRAIGHT  
 STRUCT STRUCTURAL  
 SURF SURFACE  
 SV SOLENOID VALVE  
 SVCE SERVICE  
 SVW SERVICE WATER  
 SW SOUTHWEST  
 SWD SIDEWATER DEPTH  
 SWSH SURFACE WASH  
 SYM SYMBOL  
 SYMM SYMMETRICAL  
 S/W SIDEWALK  
  
**T**  
 TAN TB TANGENT TOP OF BEAM  
 TBM TEMPORARY BENCH MARK TEST  
 TB-xx BORING-xx (e.g. TB-1)  
 TD TRENCH DRAIN  
 TDH TOTAL DYNAMIC HEAD  
 TE TOTALLY ENCLOSED  
 TEFC TOTALLY ENCLOSED FAN COOLED  
 TEL TELEPHONE  
 TENV TOTALLY ENCLOSED NON-VENTILATED  
 THD THREADED  
 THK THICKNESS  
 TLM TOWER  
 TOB TOP OF BANK  
 TOC TOP OF CURB  
 TOS TOE OF SLOPE  
 TOT TOTAL  
 TP TELEPHONE POLE  
 TS THICKENED SLUDGE  
 TV TELEVISION  
 TYP TYPICAL  
 T&B TOP AND BOTTOM  
  
**U**  
 UD UNDERDRAIN  
 UG UNDERGROUND  
 ULT ULTIMATE  
 UN UNION  
 UON UNLESS OTHERWISE NOTED  
 UGE UNDERGROUND ELECTRIC  
 UTC UNDERGROUND TELEPHONE CABLE  
 UTIL UTILITY  
  
**V**  
 V VOLT(S)  
 VAC VACUUM  
 VAR VARIES  
 VC VERTICAL CURVE  
 VCP VITRIFIED CLAY PIPE  
 VEL VELOCITY  
 VERT VERTICAL  
 VFD VARIABLE FREQUENCY DRIVE  
 VOL VOLUME  
  
**W**  
 W WATT, WEST  
 WAS WASTE ACTIVATED SLUDGE WALL  
 WCO CLEAN OUT  
 WF WIDE FLANGE  
 WH WALL HYDRANT  
 WL WATER LINE  
 WM WATER MAIN  
 WP WATER PROOF(ING), WORKING POINT  
 WPR WORKING PRESSURE  
 WS WATER SURFACE  
 WSP WELDED STEEL PIPE  
 WT WEIGHT  
 WTP WATER TREATMENT PLANT  
 WW WASH WATER  
 WWF WELDED WIRE FABRIC  
 WWM WELDED WIRE MESH  
 WWTP WASTEWATER TREATMENT PLANT  
 W/ WITH  
 W/O WITHOUT  
  
**X**  
 XFER TRANSFER  
  
**Y**  
 YD YD YARD(S)  
 YH YARD HYDRANT  
 YR YEAR(S)

# CIVIL LEGEND

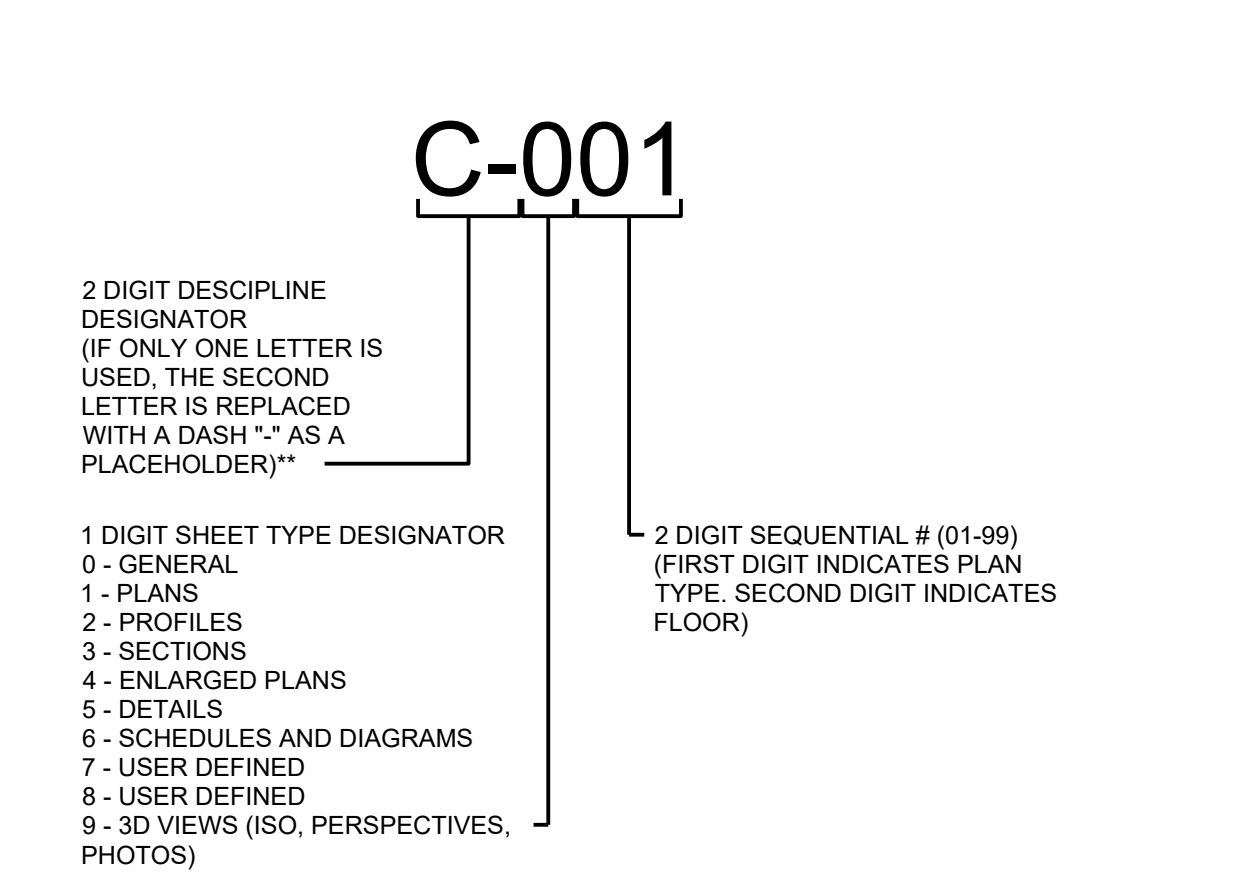


# REFERENCE SYMBOLS



**NOTE:**  
1. NOT ALL ABBREVIATIONS SHOWN WILL BE USED ON THIS PROJECT.

## SHEET NAMING CONVENTION



## PROJECT CONTACTS:

**CIVIL ENGINEER FOR THIS PROJECT IS:**  
 POND & COMPANY  
 3500 PARKWAY LANE, SUITE 500  
 PEACHTREE CORNERS, GA 30092  
 P: (678) 336.7740  
 CONTACT: DAVID MORGAN, P.E.

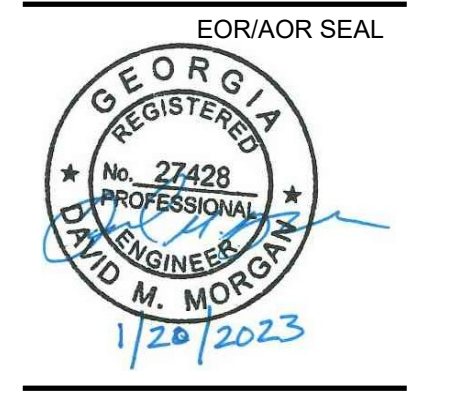
**SURVEYOR FOR THIS PROJECT IS:**  
 GEOSURVEY, L.T.D.  
 1660 BARNES MILL ROAD  
 MARIETTA, GA 30062  
 P: (770) 795.9900  
 CONTACT: BRADLEY D. CASH

FILE PATH: X:\FY21\1210495\04\_CAD\_BIM\04\_02\_CAD\CAD-001\_PLOTTED BY: MURRAY, DANIELLE DATE: 12/12/22



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

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FAYETTE COUNTY  
140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA, 30214

PROJECT NAME  
**DOWNING  
COURT  
CULVERT  
REPLACEMENT**  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE  
12/12/2022

DESCRIPTION  
100% DESIGN PLANS

MARK

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

**LEGEND AND ABBREVIATIONS**

SHEET NUMBER

**C-001**  
SHEET 2 OF 16  
ORIGINAL SHEET SIZE: 22" X 34"

100% DESIGN. ISSUED FOR CONSTRUCTION



GENERAL NOTES

- 1. BENCHMARK FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEET V-001.
- 2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND FAYETTE COUNTY STANDARDS. WHERE CONFLICTS OR OMISSIONS EXIST, 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 GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND 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.
- 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. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
- 7. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING TO BE HELD BETWEEN FAYETTE COUNTY, UTILITIES, ENGINEER OF RECORD, CONTRACTOR AND ANY SUBCONTRACTOR 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 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. THE CONTRACTOR IS REQUIRED TO NOTIFY 48 HOURS TO FAYETTE COUNTY FOR PROOF ROLL, OF GAB PLACEMENT.
- 10. ALL CONTRACTORS, FAYETTE 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.
- 13. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM SURVEY PROVIDED BY: GEOSURVEY, LTD., DATED: 10-14-2021.
- 14. ANY CONSTRUCTION BEYOND THE RIGHT-OF-WAY AND/OR ESTABLISHED EASEMENT LINES, ONTO ADJACENT PROPERTY, REQUIRES ADJACENT PROPERTY OWNER PERMISSION AND NECESSARY EASEMENTS PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR IS TO VERIFY SUCH EASEMENTS AND PERMISSIONS PRIOR TO DISTURBING ANY OFF-SITE PROPERTY.
- 15. 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.
- 16. 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.
- 17. 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, PRESENCE OF ROCK, 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 THE 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.
- 18. NEITHER OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR ERRORS OR MISINTERPRETATIONS RESULTING FROM USE OF INCOMPLETE SETS OF BIDDING DOCUMENTS.

DEMOLITION NOTES

- 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. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
- 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.
- 8. THE DEMOLITION SHALL BE PHASED TO PROVIDE AT LEAST ONE 12 FOOT LANE OF TRAFFIC AT ALL TIMES.
- 9. CONTRACTOR TO FOLLOW ALL APPLICABLE OSHA STANDARDS FOR ALL EXCAVATIONS.

FAYETTE COUNTY WATER SYSTEM NOTES:

- 1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS.
- 2. ALL MATERIALS SHALL CONFORM TO FAYETTE COUNTY DEVELOPMENT SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE FAYETTE COUNTY WATER SYSTEM SUBMITTALS ON ALL PIPE AND MATERIALS USED FOR APPROVAL. ANY WORK DONE BY THE CONTRACTOR SHALL BE AT HIS OWN RISK UNTIL REVIEW AND APPROVAL OF THESE SUBMITTALS ARE COMPLETE.
- 3. THE CONTRACTOR SHALL NOTIFY THE FAYETTE COUNTY WATER SYSTEM 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE.
- 4. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE FAYETTE COUNTY WATER SYSTEM BEFORE ANY WORK IS HIDDEN FROM VIEW.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING THE LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE HIS WORK WITH EXISTING UTILITIES WHICH CONFLICT WITH HIS WORK. CONTRACTOR SHALL MAINTAIN SUCH UTILITIES SHOWN OR NOT SHOWN ON THIS PLAN.
- 7. ALL VALVE BOXES ARE TO HAVE COLLARS AND MARKERS AS REQUIRED BY THE FAYETTE COUNTY WATER SYSTEM DEPARTMENT.
- 8. WATER LINES SHALL HAVE A MINIMUM COVER OF 4 FEET FROM FINISHED GRADE.
- 9. MINIMUM HORIZONTAL DISTANCE BETWEEN WATER LINES AND SEWER SHALL BE 10 FEET AND VERTICAL DISTANCE MINIMUM OF 2 FEET.
- 10. ALL OTHER UNDERGROUND UTILITIES OR STRUCTURES SHALL BE A MINIMUM HORIZONTAL AND VERTICAL DISTANCE OF 2 FEET FROM WATER LINES.
- 11. WATER LINES SHALL BE LOCATED 7'-0" FROM THE BACK OF THE CURB OR PER AS APPROVED UTILITY PLACEMENT DETAIL.
- 12. ALL WATER SERVICES SHALL BE MARKED WITH A SAWED "V" NOTCH PAINTED BLUE ON THE CURB.
- 13. ALL WATER MAIN CROSSING UNDER PAVEMENT SHALL BE DIP IN STEEL CASING AS PER FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS.
- 14. ALL VALVES AND FITTINGS ARE TO BE RESTRAINED WITH APPROPRIATE TYPE AND NUMBER OF EBBA IRON OR UNIFLANGE RESTRAINT SYSTEM APPURTENANCES APPROVED BY THE FAYETTE COUNTY WATER SYSTEM PRIOR TO CONSTRUCTION. ANY CONCRETE BLOCKING THAT IS ALLOWED SHALL BE INSTALLED TO UNDISTURBED EARTH.
- 15. ALL SERVICE LINES CROSSING UNDER PAVEMENT OR IN FRONT OF LOTS SHALL BE ENCASED IN 2" CONDUIT MATERIAL APPROVED BY FAYETTE COUNTY WATER SYSTEM.

ESPC NOTES

- 1. 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.
- 2. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- 3. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 4. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
- 5. INSPECT AND DOCUMENT THE CONDITION OF RUNOFF CONTROLS EVERY 7 DAYS, OR EVERY 14 DAYS AND WITHIN 24 HOURS AFTER EACH RAIN OF 0.5 INCH OR MORE.
- 6. PERMITEE SHALL SUBMIT A SIGNED NOTICE OF TERMINATION (NOT) FORM TO THE GEORGIA DIVISION OF WATER AFTER THE SITE HAS BEEN FINALLY STABILIZED.
- 7. 67 CY/AC SEDIMENT STORAGE SUBSTANTIALLY HANDLED BY SILT FENCE. THE LINEAR NATURE OF THIS PROJECT COUPLED WITH LIMITED WORK AREA (ESPECIALLY ADJACENT TO STATE WATER) DOES NOT PROVIDE OPPORTUNITY FOR INSTALLATION OF PERMANENT BMPS TO PREVENT POLLUTANTS FROM DISCHARGING THE SITE WITHOUT FURTHER ENCROACHMENT INTO ADJACENT PRIVATE PROPERTY. DURING CONSTRUCTION, SILT FENCE WILL BE USED TO PREVENT POLLUTANTS FROM DISCHARGING THE SITE. AFTER CONSTRUCTION IS COMPLETE ALL AREAS WILL BE STABILIZED.
- 8. SOIL STOCKPILES MUST BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES MUST BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
- 9. SEDIMENT-LADEN WATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER EXCAVATION ACTIVITIES MUST BE PUMPED TO A SEDIMENT TRAPPING OR FILTERING DEVICE AND CLEANED BEFORE BEING DISCHARGED. DISCHARGES TO STORM DRAINS, DITCHES, OR WATER BODIES MUST BE COVERED UNDER A EPD PERMIT.
- 10. ALL BARE SOIL AREAS NOT SUBJECT TO ACTIVE CLEARING, EXCAVATION, GRADING, OR FILL ACTIVITIES MUST BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING OR MULCHING WITHIN 14 DAYS.
- 11. GOOD HOUSEKEEPING PRACTICES MUST BE APPLIED TO PREVENT CONTAMINATED RUNOFF OR OTHER IMPACTS FROM PAINT OR CONCRETE WASTES, FUELS AND OILS, TRASH AND LITTER, OR OTHER MATERIALS.
- 12. SILT FENCES, DITCH CHECKS, NON-PERMANET SEDIMENT TRAPS, AND OTHER TEMPORARY CONTROLS MUST BE REMOVED AFTER VEGETATION IN UPGRADIENT AREAS IS ESTABLISHED AND DITCHES ARE STABLE.
- 13. GOOD HOUSEKEEPING MEASURES FOR MATERIALS STORAGE AND HANDLING, VEHICLE FUELING AND MAINTENANCE, SPILL RESPONSE AND CLEANUP, AND WASTE MANAGEMENT MUST BE FOLLOWED TO ENSURE THAT RUNOFF FROM THE SITE IS FREE OF CONTAMINANTS.
- 14. ALL BMPS SELECTED SHALL BE INSTALLED, OPERATED, AND MAINTAINED ACCORDING TO GSWCC FIELD MANUAL, GEORGIA DIVISION OF WATER GUIDELINES, MANUFACTURER'S REQUIREMENTS, OR STANDARD INDUSTRY PRACTICE, AS APPROPRIATE.
- 15. APPROVED PLANS AND NPDES DAILY LOG MUST BE ONSITE AT ALL TIMES.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE NOTES

- 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 AS DETERMINED WITHIN 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 916.1 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 USING MEASURES THAT MATCH THE EXISTING VEGETATIVE CONDITIONS OF THE SITE. 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.
- 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.
- 14. EXISTING RUNOFF CURVE NUMBER FOR THE PROJECT: 67. PROPOSED RUNOFF CURVE NUMBER FOR THE PROJECT: 67.
- 15. ALL CONCRETE STRUCTURES SHOWN ARE PRE-CAST FROM AN APPROVED VENDOR. CAST-IN-PLACE METHODS MAY BE USED FOR STRUCTURE COMPONENTS WHERE APPLICABLE FOR APPROVAL.

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. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
- 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.

TRAFFIC CONTROL NOTES

- 1. THE CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN TO THE COUNTY FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. ALL REQUIRED TRAFFIC SIGNAGE MUST MEET MUTCD STANDARDS.
- 3. ALL REQUIRED TRAFFIC STRIPING MUST MEET MUTCD AND GDOT PLAN SPECIFICATIONS AND MUST BE THERMO-PLASTIC.
- 4. ALL STRIPING LAYOUTS MUST BE APPROVED BY THE COUNTY TRAFFIC ENGINEER PRIOR TO FINAL APPLICATION.
- 5. CONTRACTOR TO COORDINATE LANE CLOSURES WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.

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 Peachtree Corners  
 Georgia 30092  
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EOR/AOR SEAL  
  
 CLIENT INFORMATION

**FAYETTE COUNTY**  
 140 STONEWALL AVE W, STE 203  
 FAYETTEVILLE, GA 30214

PROJECT NAME  
**DOWNING  
 COURT  
 CULVERT  
 REPLACEMENT**  
 FAYETTE COUNTY, GA

DRAWING ISSUE

DATE	DESCRIPTION	MARK
12/12/2022	100% DESIGN PLANS	

DESIGNED BY: MDW  
 DRAWN BY: MDW  
 CHECKED BY: DMM/MDM  
 SUBMITTED BY: DMM  
 DATE: SEPTEMBER 1, 2022  
 PROJECT # 1210495

SHEET TITLE

**CIVIL GENERAL  
 NOTES**

SHEET NUMBER

**C-002**

SHEET 3 OF 16

ORIGINAL SHEET SIZE: 22" X 34"



GENERAL NOTES

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

REVISIONS LISTED ON THIS SURVEY APPLY ONLY TO THE SPECIFIC CHANGES REFERENCED, AND DO NOT CONSTITUTE AN UPDATE OF OTHER DATA ON THIS SURVEY. THE "SURVEY DATE" SHOWN HEREON IS THE APPLICABLE DATE AS RELATED TO PROVISIONS OR STATUTES OF LIMITATION UNLESS SPECIFICALLY NOTED OTHERWISE.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. ENCUMBRANCES OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 131101010E, AND THE DATE OF SAID MAP IS 9/26/2008. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VERTICAL REFERENCE STATION NETWORK DEVELOPED BY GPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)-STATE PLANE COORDINATE SYSTEM OF GEORGIA-WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

NO ZONING REPORT OR ZONING LETTER WAS PROVIDED TO THE SURVEYOR. THE SITE IS ZONED "R-40" (SINGLE FAMILY RESIDENTIAL DISTRICT) AS SHOWN ON THE ZONING MAP OF FAYETTE COUNTY. THE MINIMUM YARD SETBACKS ARE: FRONT - 40 FEET; SIDE - 15 FEET; AND REAR - 30 FEET.

ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

RIGHT-OF-WAY LINES SHOWN ON THIS SURVEY THAT ARE NOT ACTUAL BOUNDARIES OF THE SUBJECT TRACTS ARE DEPICTED GRAPHICALLY AND ARE SHOWN APPROXIMATELY FOR INFORMATIONAL PURPOSES ONLY. SAID RIGHT-OF-WAY LINES SHOULD NOT BE UTILIZED FOR DESIGN PURPOSES.

SURVEY REFERENCES

- 1. FINAL PLAT OF HUNTINGTON CREEK SUBDIVISION, UNIT FOUR, BY EASTON PROSPEY & ASSOCIATES, INC. DATED JUNE 6, 1978 AND RECORDED IN PLAT BOOK 11 PAGE 64.
2. REVISED FINAL PLAT OF LOT 69, HUNTINGTON CREEK PHASE 4, BY DELTA SURVEYORS, INC. DATED NOVEMBER 19, 1999 AND REVISED JANUARY 26, 2003. RECORDED IN PLAT BOOK 37 PAGE 113.
3. SURVEY FOR RICHARD LOVE, REVISED FINAL PLAT OF LOTS 69B AND 69C OF HUNTINGTON CREEK BY DELTA SURVEYORS, INC. DATED MAY 21, 2001. RECORDED IN PLAT BOOK 44 PAGE 114.
4. BOUNDARY SURVEY FOR YVONNE JOSEPH AND RICHARD SHARPO OF 195 DOWNING COURT BY HANBUCK LAND SURVEYORS, DATED JUNE 3, 2021.

UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

SUBSURFACE UTILITY INVESTIGATIONS, LLC
898 SWEET BRIAR TRAIL
CONYERS, GEORGIA 30094
(770) 557-4142

SUBSURFACE UTILITY INVESTIGATIONS, LLC UTILIZED SEVERAL TECHNIQUES INCLUDING, BUT NOT LIMITED TO, ELECTROMAGNETIC, MAGNETIC LOCATION FOR FERROUS METALS, ACOUSTIC AND PASSIVE FREQUENCIES TO DESIGNATE AND MARK BURIED UTILITIES ON THE SURFACE WITH PAINT AND FLAGS COVERING THE ENTIRE AREA OF THE PROJECT.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THIS AREA, EITHER IN-SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE, BUT NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

IF YOU DIG

811 Know what's below. Call before you dig. Dial 811 Or Call 800-282-7411

UTILITY PROVIDERS

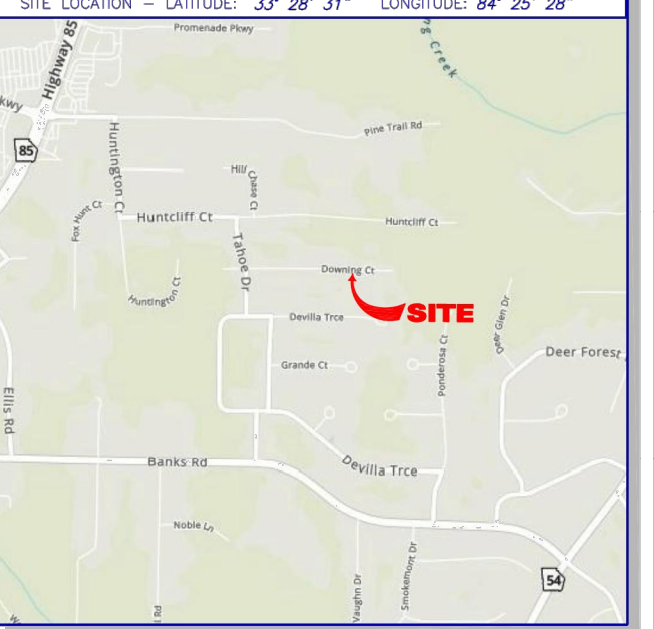
Gas: Southern Company Gas (former Atlanta Gas Light) 10 Peachtree Street NE Atlanta, GA 30309

Power: Coveto-Fayette EMC 807 Collierwood Road Fayetteville, GA 30268 (770) 502-0298 ext 4249

Water: Fayette County Water System 260 McDonough Road Fayetteville, GA 30214 (770) 461-1146 770-320-6020 Ext. 6020

Communication: AT&T 208 S. Akard St. Suite. 18 76202 210-821-4105 (770) 784-3972 Comcast (770) 559-6879 Zayo Fiber Solutions 400 Centennial Pkwy, Suite. 200 Louisville, CO 80027 (678) 666-2493

VICINITY MAP

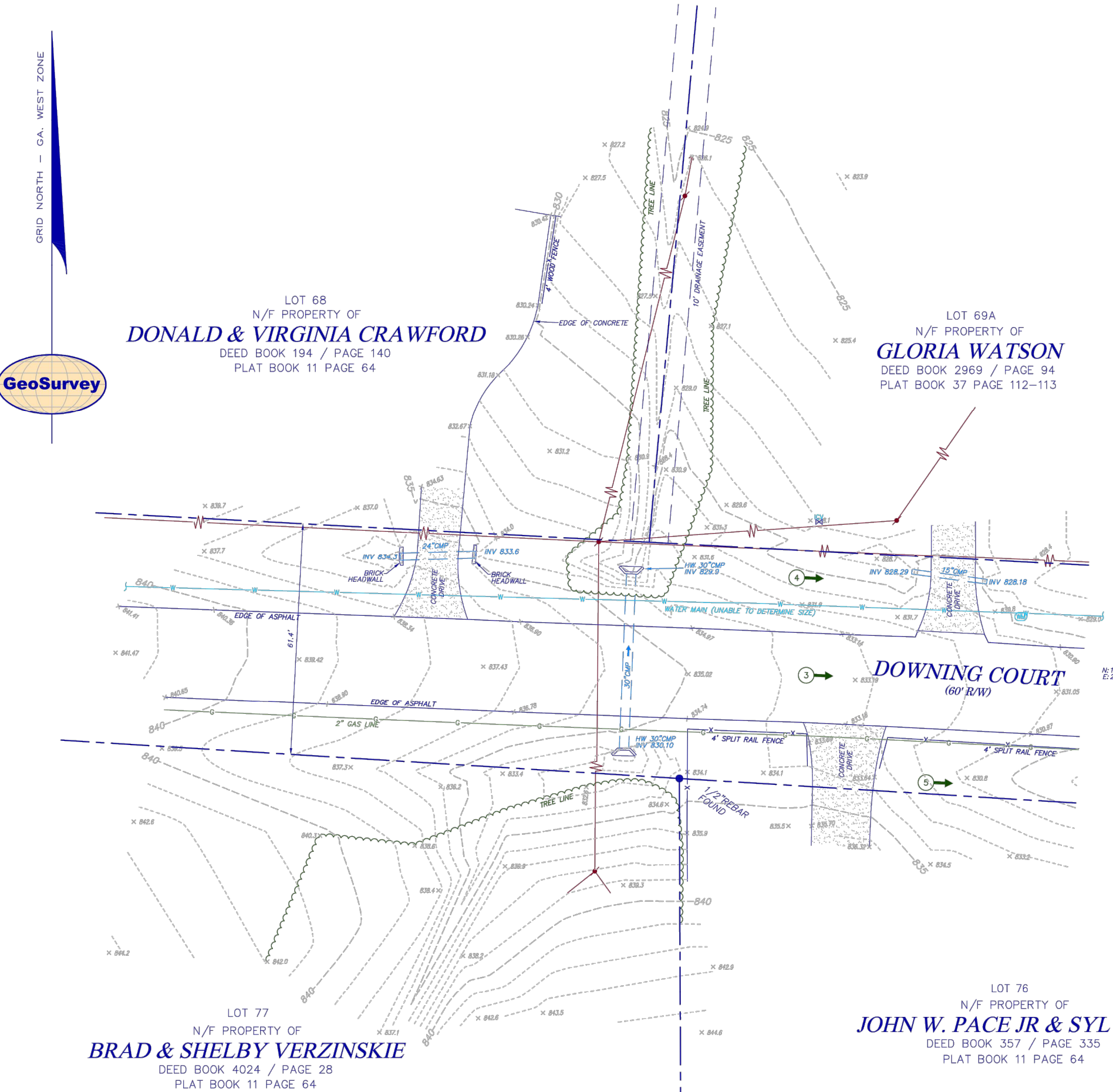


LEGEND

Table with two columns: STANDARD ABBREVIATIONS and STANDARD SYMBOLS. Lists various utility symbols and their corresponding abbreviations.

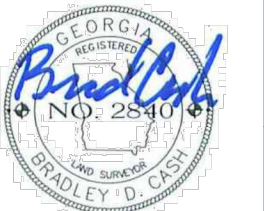
CLOSURE STATEMENT

THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 82,550, AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE "S" SERIES TOTAL STATION AND TRIMBLE TSC-3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.



Land Surveying • 3D Laser Scanning
1660 Barnes Mill Road
Marietta, Georgia 30062
Phone: (770) 795-9900
Fax: (770) 795-8880
www.geosurvey.com
EMAIL: info@geosurvey.com
Certificate of Authorization: 8137-000621

TOPOGRAPHIC SURVEY OF DOWNING COURT FOR FAYETTE COUNTY. Includes project details, drawing scale, and survey date.



A1 TOPOGRAPHIC SURVEY SCALE: 1" = 30'. Includes graphical scale bar and north arrow.

POND 3500 Parkway Lane Suite 500 Peachtree Corners Georgia 30092

EOR/AOR SEAL

CLIENT INFORMATION

FAYETTE COUNTY 140 STONEWALL AVE W, STE 203 FAYETTEVILLE, GA. 30214

PROJECT NAME DOWNING COURT CULVERT REPLACEMENT FAYETTE COUNTY, GA

DRAWING ISSUE

Table with columns: DATE (12/12/2022), DESCRIPTION (100% DESIGN PLANS), MARK.

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: SEPTEMBER 1, 2022
PROJECT #: 1210495
SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NUMBER

V-001

SHEET 4 OF 16

ORIGINAL SHEET SIZE: 22" X 34"



GENERAL SHEET NOTES:

- REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.
- ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS PLACED.
- AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (SHALL BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR)
- CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
- CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, DRIVEWAYS, ASPHALT, FENCING OR EXISTING ROADWAY OUTSIDE OF PAVING LIMITS DURING CONSTRUCTION.
- ANY DAMAGED ASPHALT OUTSIDE OF THE RESURFACE OR PAVING LIMITS SHOWN ON PLANS WILL REQUIRE TO BE MILLED AND RESURFACED.
- CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO PROTECT OR RELOCATE THE EXISTING INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO GAS, COMMUNICATIONS, POWER, AND WATER.
- EXISTING CONDITIONS AS SHOWN ARE BASED ON SURVEY PROVIDED IN GENERAL NOTES #13 FROM SHEET C-002. EXISTING CONDITIONS SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE CONFIRMED BY CONTRACTOR PRIOR TO WORK.
- CULVERT STREAM BEDDING MATERIAL IS ALLOWED BY FAYETTE COUNTY TO BE EMBED NATURALLY WITH FLOW.
- THE LIMITS OF DISTURBANCE MUST BE CLEARED IN ENTIRETY.
- TOPOGRAPHIC SURVEY FOR DOWNING COURT FOR FAYETTE COUNTY, PREPARED BY: GEOSURVEY, LTD., DATED: 10/14/2021.
- FAYETTE COUNTY TO COORDINATE AND OBTAIN REQUIRED EASEMENTS.

DEMOLITION NOTES:

- A. PROTECTION:**
- PERFORM DEMOLITION SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN TO INCLUDE AREAS OUTSIDE OF APPROVED LIMITS OF DISTURBANCE
  - 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 BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION.
  - 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 MAINTAIN ACCESS TO AFFECTED PROPERTIES AT ALL TIMES.
- 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.
  - ALL 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 AND MAINTAIN ENOUGH CLEAR SPACE FOR CONSTRUCTION EQUIPMENT ACCESS.
  - ONSITE EXCAVATED MATERIAL MAY NOT BE SUITABLE FOR RE-USE. CONTRACTOR PRICING SHALL INCLUDE ALL MATERIALS INCLUDING IMPORTED FILL, AS NECESSARY.
- 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.



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Georgia 30092

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CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA, 30214

PROJECT NAME

**DOWNING COURT  
CULVERT  
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

12/12/2022  
DATE

100% DESIGN PLANS  
DESCRIPTION

MARK

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

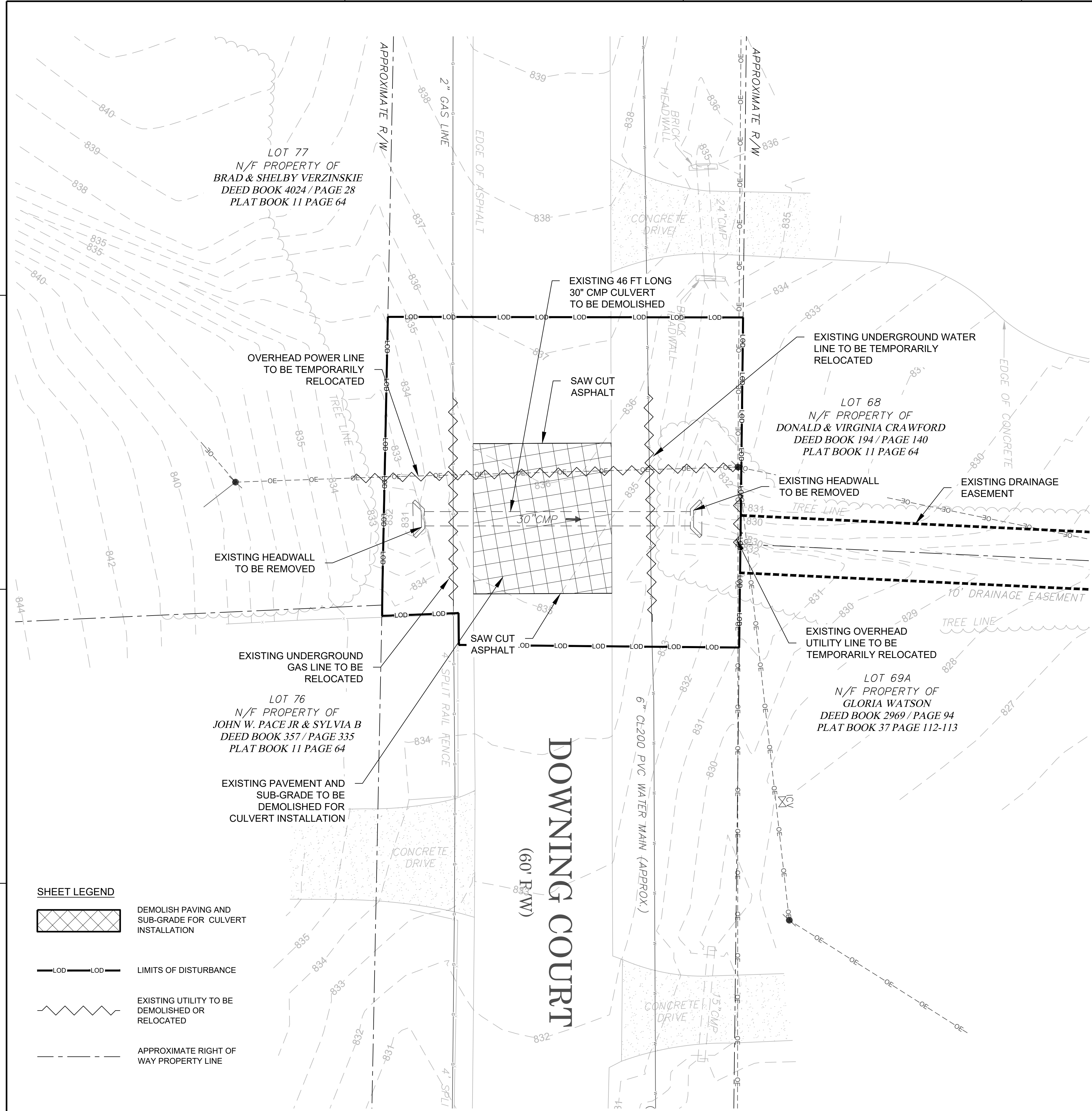
**CIVIL SITE  
DEMOLITION  
PLAN**

SHEET NUMBER

**CD101**

SHEET 5 OF 16

ORIGINAL SHEET SIZE: 22" X 34"



SHEET LEGEND

- DEMOLISH PAVING AND SUB-GRADE FOR CULVERT INSTALLATION
- LIMITS OF DISTURBANCE
- EXISTING UTILITY TO BE DEMOLISHED OR RELOCATED
- APPROXIMATE RIGHT OF WAY PROPERTY LINE

**A1 CIVIL SITE DEMOLITION PLAN**  
SCALE: 1" = 10'

FILE PATH: X:\FY21\1210495\04.CAD\_BIM\04.02.CAD\CD101 PLOTTED BY: MURRAY, DANIELLE DATE: 12/12/22



GENERAL SHEET NOTES

- REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES. CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD) AND GDOT STANDARDS.
- ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY ENGINEER'S OR OWNER'S FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTOR'S REPRESENTATIVE BEFORE CONCRETE IS PLACED.
- AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (ALL AS-BUILT DRAWINGS SHOULD BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR).
- CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, FENCE, OR DRIVEWAYS DURING CONSTRUCTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION, AS WELL AS REPLACEMENT AND RELOCATION OF MAILBOXES.
- IF PRECAST STRUCTURE IS USED IN PLACE OF A CAST-IN-PLACE STRUCTURE, THE STRUCTURE SHOP DRAWINGS ARE TO BE APPROVED BY ENGINEER FOR OWNER.

GRADING NOTES:

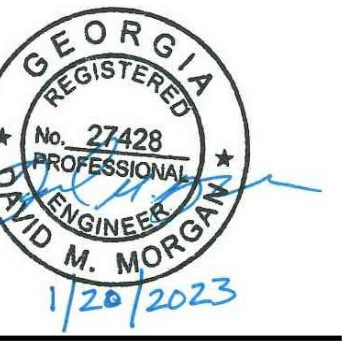
- ROAD TO BE GRADED FROM CROWN TO EDGE OF ASPHALT AT 1/4" PER 1'
- MAXIMUM SLOPES ALLOWED WITHIN FAYETTE COUNTY RIGHT-OF-WAY SHALL BE 3:1. PROVIDE GENTLER SLOPES WHERE POSSIBLE.



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CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME

**DOWNING  
COURT  
CULVERT  
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE	DESCRIPTION	MARK
12/12/2022	100% DESIGN PLANS	

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

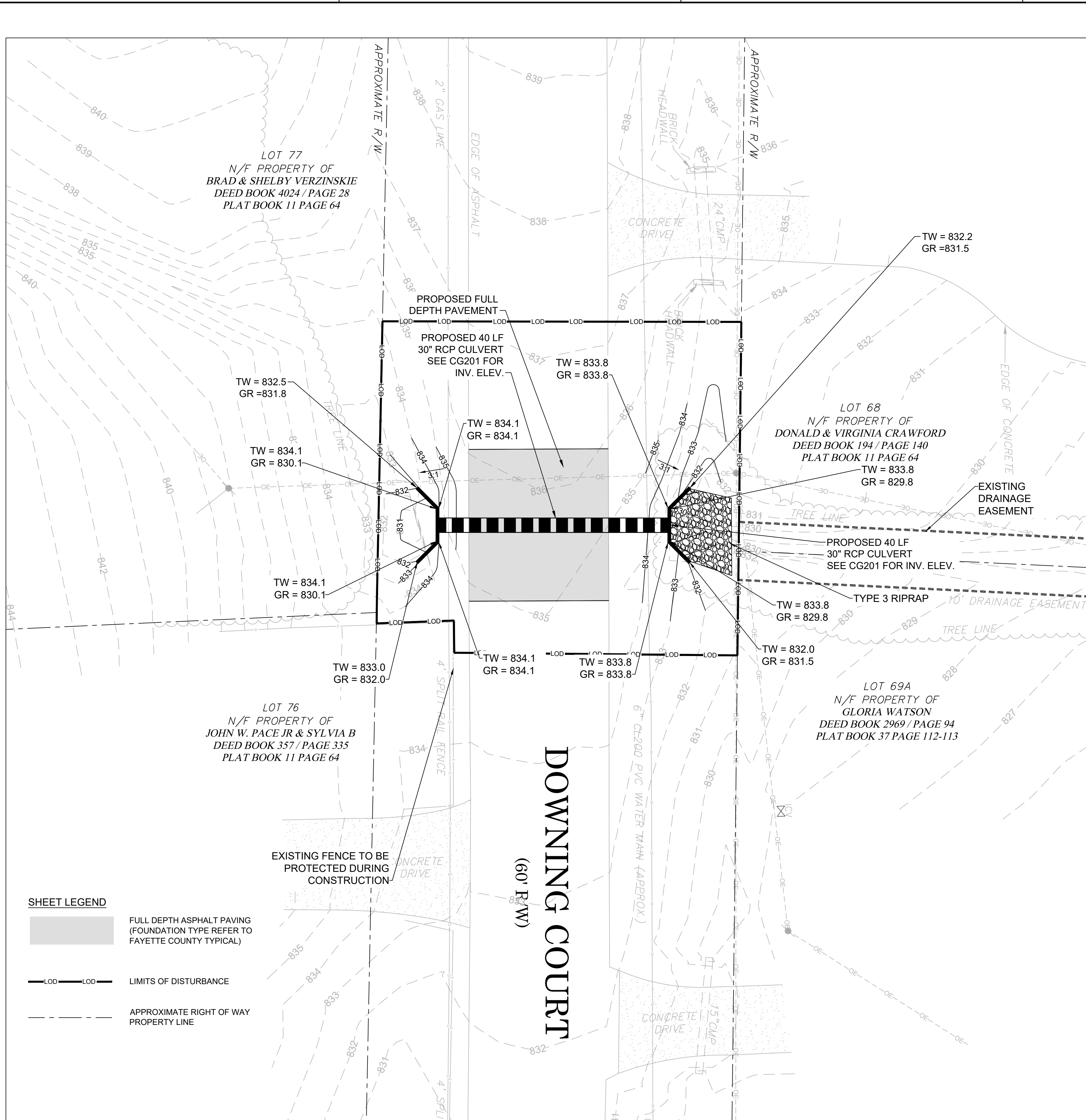
**SITE AND  
GRADING PLAN**

SHEET NUMBER

**CG101**

SHEET 6 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"

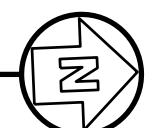


SHEET LEGEND

- FULL DEPTH ASPHALT PAVING (FOUNDATION TYPE REFER TO FAYETTE COUNTY TYPICAL)
- LIMITS OF DISTURBANCE
- APPROXIMATE RIGHT OF WAY PROPERTY LINE

**A1 SITE AND GRADING PLAN**

SCALE: 1" = 10'







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CLIENT INFORMATION

**FAYETTE COUNTY**

140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME

**DOWNING COURT  
CULVERT  
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

12/12/2022  
DATE

100% DESIGN PLANS  
DESCRIPTION

MARK

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

**CULVERT  
PROFILE**

SHEET NUMBER

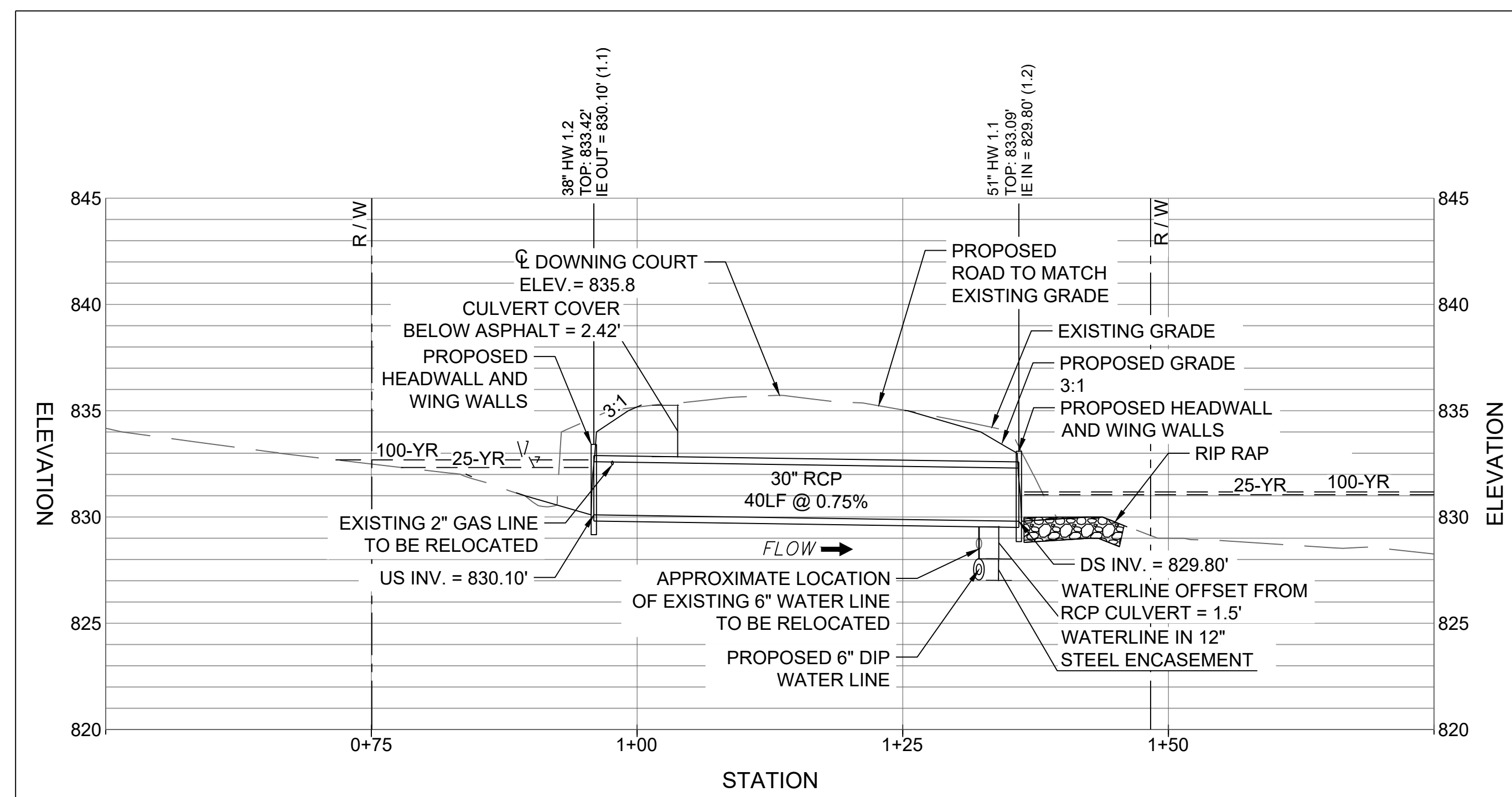
**CG201**

SHEET 7 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"

FLOW SUMMARY TABLE					
STORM FREQUENCY	FLOW (CFS)	HEADWATER ELEVATION (FT)	OUTLET VELOCITY (FPS)	DOWNSTREAM VELOCITY (FPS)	TAILWATER ELEVATION (FT)
10-YEAR	15.80	832.09	7.13	4.69	830.95
25-YEAR	18.80	832.33	7.46	4.80	831.05
100-YEAR	23.50	832.69	7.91	4.93	831.18

DRAINAGE AREA = 6 ACRES  
AVERAGE STREAM SLOPE = 5.0%



**PROPOSED 30" RCP CULVERT PROFILE**

HORIZ. SCALE 1" = 10'

VERT. SCALE 1" = 5'



NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25- OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS..

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.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT 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.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.

DESIGN PROFESSIONAL CERTIFICATION:

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 DIRECT SUPERVISION.

DAVID MORGAN, P.E. DATE
GSWCC LEVEL II CERTIFICATION # 0000011643
EXPIRES: 06/03/2024

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES
(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100001.)

OWNER/ PRIMARY PERMITEE: FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT
PHIL MALLON
140 STONEWALL AVE., SUITE 203, FAYETTEVILLE, GA. 30214
PHONE (770) 305-5410
PUBLICWORKS@FAYETTECOUNTYGA.GOV

ENGINEER: POND & COMPANY
3500 PARKWAY LANE, SUITE 500
PEACHTREE CORNERS, GEORGIA 30092
PHONE: (678) 336-7740
FAX: (678) 336-7744

CONTACT: DAVID MORGAN, PE
GA. P.E. # 27428, E&S LEVEL II CERTIFICATION # 0000011643

CONTRACTOR: TO BE DETERMINED
24-HOUR EROSION AND SEDIMENT CONTROL CONTACT: PHIL MALLON -770-313-9855

TOTAL SITE AREA: 0.15 ACRES
DISTURBED AREA: 0.08 ACRES

EXISTING LAND USE: THE EXISTING LAND USE CONSISTS OF 30-INCH DIAMETER CMP CULVERT AND A PAVED ROAD.

PROPOSED LAND USE: THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED 30 INCH DIAMETER CMP CULVERT. THE CULVERT IS TO BE REPLACED WITH A 40 LINEAR 30-INCH DIAMETER RCP CULVERT.

GPS COORDINATES OF SITE: 33°28'26.56"N, 84°25'39.93"W

NAME OF RECEIVING WATERS: FLINT RIVER
AREA OF ON-SITE WETLANDS: 0 AC

National Flood Hazard Layer FIRMette



FEMA FLOOD MAP - 13113C0106E
SCALE: NTS DATED 09/26/2008

THERE ARE KNOWN WETLANDS LOCATED WITHIN 200 FEET OF PROJECT AREA.
STATE WATERS DO EXIST WITHIN 200 FEET OF PROJECT AREA.

EROSION CONTROL LEGEND

- Ds1 TEMPORARY MULCHING - DETAIL A2/CE-501
Ds2 TEMPORARY SEEDING - DETAIL A1/CE-502
Ds4 DISTURBED AREA STABILIZATION W/ SOODING - DETAIL B3/CE-502
Sd1-NS SILT FENCING - NS DETAIL C1/CE-501
St STORM DRAIN OUTLET PROTECTION - DETAIL A1/CE-504
Du DUST CONTROL - DETAIL A1/CE-501
Tr TREE PROTECTION DETAIL C1/CE-504



SOIL MAP

Table with 2 columns: SYMBOL and DESCRIPTION. Lists soil types and their characteristics, such as AmB (Appling sandy loam, 2 to 6 percent slopes) and PaE (Pacolet sandy loam, 10 to 25 percent slopes).

ACTIVITY SCHEDULE (FOR PERMITTING REFERENCE ONLY)
Table with columns for ACTIVITY and TIME / 16 WEEKS (1-16). Lists activities like INSTALL SILT FENCE, CLEARING AND GRUBBING, and their durations.

DESIGN PROFESSIONAL: DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 0000011643
EXPIRES : 06/03/2024

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Or Call 800-282-7411

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

EOR/AOR SEAL
REGISTERED PROFESSIONAL ENGINEER
DAVID M. MORGAN
1/26/2023
CLIENT INFORMATION

FAYETTE COUNTY
140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA. 30214

PROJECT NAME
DOWNING COURT
CULVERT
REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE: 12/12/2022
DESCRIPTION: 100% DESIGN PLANS
MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: SEPTEMBER 1, 2022
PROJECT # 1210495

SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER
CE001

SHEET 8 OF 16
ORIGINAL SHEET SIZE: 22" X 34"



**STRUCTURAL PRACTICES:**

THE STRUCTURAL PRACTICES SHOWN ON THIS PLAN HAVE BEEN DESIGNED TO REDUCE EROSION & SEDIMENTATION OF DISTURBED AREAS.

SILT FENCE (SD1-TYPE "S"), TEMPORARY SEDIMENT BASINS, AND DIVERSION DITCHES WILL BE INSTALLED PRIOR TO CLEARING AND GRADING OPERATIONS TO KEEP SEDIMENT CONTAINED WITHIN THE SITE AS NECESSARY. DISTURBED AREA STABILIZATION SHALL BE STABILIZED WITH MULCH (Ds1), TEMPORARY SEEDING (Ds2), AND PERMANENT SEEDING (Ds3) AS NECESSARY. INLET SEDIMENT TRAP PROTECTION WILL BE USED TO HELP PREVENT SEDIMENT FROM ENTERING ANY EXISTING INLETS. SEDIMENT STORAGE OF 67 CY PER DISTURBED ACRE IS PROVIDED BY TEMPORARY SEDIMENT BASINS.

D

**CRITICAL WORK ZONE:**

ALL SLOPES 3:1 OR STEEPER AND HIGHER THAN 5 FEET, AND ALL SLOPES ADJACENT TO BUFFERS SHALL RECEIVE SURFACE ROUGHENING, AND EROSION CONTROL MATTING. SILT FENCING WILL BE USED TO PREVENT SEDIMENT FROM LEAVING THE DISTURBED AREA. INLET PROTECTION WILL BE USED TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER.

**CONSTRUCTION PERIOD STORM WATER POLLUTANT CONTROL:**

SEDIMENTATION AND FUEL SPILLS ARE POTENTIAL SOURCES OF STORM WATER POLLUTION DURING THE CONSTRUCTION PROCESS. THESE POLLUTANTS WILL BE REMOVED AND/OR REDUCED VIA THE BMP'S CONTAINED WITHIN THIS PLAN

**STABILIZATION MEASURES:**

THE STABILIZATION MEASURES SHOWN ON THESE PLANS HAVE BEEN DESIGNED TO STABILIZE THE DISTURBED AREAS FOLLOWING THE TEMPORARY OR PERMANENT COMPLETION OF CONSTRUCTION. ALL EXPOSED AREAS SHALL BE STABILIZED WITH TEMPORARY MULCHING (DS1) IMMEDIATELY AFTER TRENCHING IF THEY ARE TO REMAIN INACTIVE FOR 14 DAYS OR MORE. ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY (DS2) OR PERMANENT (DS3) VEGETATION AS INDICATED ON THE PLAN. SLOPES GREATER 3:1 ARE TO BE STABILIZED WITH EROSION CONTROL MATTING (MB). DUST CONTROL (DU) SHALL ALSO BE PROVIDED AS NEEDED DURING GRADING ACTIVITIES. SEE EROSION, SEDIMENTATION, AND POLLUTION CONTROL (ESPCP) DETAIL SHEETS FOR MORE DETAILS REGARDING THESE STABILIZATION MEASURES.

C

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, EXCEPT:

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL.

WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

**KEEPING PLANS CURRENT:**

THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT (I.E., THOSE BMPS WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY STORMS) OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.3. OF THIS PERMIT. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT. SECONDARY PERMITTEES MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF BECOMING AWARE OF ANY SUSPECTED BMP DESIGNED DEFICIENCIES WHICH ARE NOT EFFECTIVE IN CONTROLLING THE DISCHARGE OF POLLUTANTS FROM THE SECONDARY PERMITTEE'S SITE. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH THIS PARAGRAPH TO ADDRESS THOSE DEFICIENT BMPS WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEES WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEE(S) MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE. NOTWITHSTANDING THE FOREGOING, THE PRIMARY OR TERTIARY PERMITTEE REMAINS RESPONSIBLE FOR INSURING THAT THE PLAN, AS APPROPRIATE, MEETS THE REQUIREMENTS OF THIS PERMIT.

B

**PROPER OPERATION AND MAINTENANCE:**

THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY ASSURANCE PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY AN PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT.

EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

REFER TO THE DETAILS CONTAINED WITHIN THIS PLAN SET FOR ADDITIONAL MAINTENANCE INSTRUCTION.

**NON-STORM WATER DISCHARGES:**

A

NON-STORM WATER DISCHARGES (DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE, SPRINGS, UNCONTAMINATED GROUNDWATER, AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS) THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL BE DISCHARGED TO THE PROPOSED STORM DRAINAGE SYSTEM AND ROUTED THROUGH THE EROSION AND SEDIMENTATION CONTROLS IDENTIFIED WITHIN THIS PLAN. NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF THIS IS NOT POSSIBLE.

**WASTE MATERIALS AND DISPOSAL:**

ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROPRIATE WASTE MANAGEMENT FACILITY PERMISSIBLE UNDER GAR PERMIT NO. 100001. WASTE MANAGEMENT FACILITIES SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE WASTE MANAGEMENT FACILITIES. WASTE MANAGEMENT FACILITIES SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH SHALL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.

ALL PERSONNEL SHALL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES SHALL BE POSTED AT THE JOB SITE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS.

**HAZARDOUS WASTES:**

ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER AS REQUIRED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, SHALL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS SHALL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS SHALL BE MAINTAINED IN THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP) FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO HANDLES A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES SHALL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE SHALL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

**SANITARY WASTES:**

ALL PERMITTEES SHALL ENSURE THAT THIS PLAN IS IN COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS.

A MINIMUM OF ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH THE LOCAL STATE REGULATIONS.

ALL SANITARY WASTE UNITS SHALL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT OF BMP'S SHALL BE IMPLEMENTED AS NECESSARY, SUCH AS GRAVEL BAGS OR SPECIFICALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTE FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

**OFFSITE VEHICLE TRACKING / DUST CONTROL:**

OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. A STABILIZED CONSTRUCTION EXIT (CO) SHALL BE PROVIDED TO REDUCE VEHICLE TRACKING OF SEDIMENT. SEE ESPCP PLAN AND DETAIL SHEETS FOR THE CONSTRUCTION EXIT LOCATIONS AND DETAIL. THE PAVED STREET ADJACENT TO THE CONSTRUCTION EXIT SHALL BE INSPECTED DAILY BY A REPRESENTATIVE OF THE SITE CONTRACTOR FOR TRACKING OF MUD, DIRT, OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN. DUST CONTROL (DU) SHALL BE APPLIED AS NECESSARY TO PREVENT SURFACE AND AIR MOVEMENT OF DUST.

**INVENTORY FOR POLLUTION PREVENTION PLAN**

THE FOLLOWING MATERIALS ARE EXPECTED TO BE ONSITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEET ROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CLEANING SOLVENTS, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

**SPILL PREVENTION**

PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

**GOOD HOUSEKEEPING**

QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.

- A. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
- B. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
- C. PRODUCT MIXING, PRODUCT DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- D. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

**EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES**  
(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100001)

**PRODUCT SPECIFIC PRACTICES**

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 WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAINMENT. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED INTO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE/MASONRY - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE. THE CONCRETE PROVIDER HAS RESPONSIBILITY TO ENSURE APPROPRIATE TRAINING HAS BEEN PROVIDED TO THEIR TRUCK DRIVERS, AND MUST PROVIDE APPROPRIATE DETAILS AND RESOURCES TO ENABLE THEM TO COMPLETE A DELIVERY WITHOUT CAUSING POLLUTION. CHUTES, BARRELS, WHEELBARROWS AND OTHER EQUIPMENT MUST BE RINSED IN THE SITE WASH-DOWN AREA. SWEEP OR SHOVEL ANY SPILLS THAT OCCUR AND ALLOW RESIDUE TO SET BEFORE REMOVING. THE HARDENED RESIDUE MAY THEN BE PLACED IN A DESIGNATED CONCRETE/MASONRY RECYCLING BIN ON SITE. DO NOT WASH CONCRETE/MASONRY INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. TRUCKS SHOULD NOT TRACK ANY CONCRETE OR MUD AND SEDIMENT OFF SITE.


FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS, THE CROP ESTABLISHMENT GUIDELINES, OR THE SPECIFICATIONS CONTAINED WITHIN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

**SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN:**


- A. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.
- B. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- C. SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- D. ALL SPILLS WILL BE CLEANED IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- E. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED.
- F. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. SEC. 12-14-2, ET SEQ.), 40 CFR 117, OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. SEC. 12-14-2, ET SEQ.), 40 CFR 117, AND 40 CFR 302 AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE.
- G. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER) OR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT (800) 424-8802.
- H. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HOURS AT (404) 656-4863 OR (800) 241-4113.
- I. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED AND LOCAL AGENCIES SHALL BE CONTACTED AS REQUIRED.
- J. GENERAL NPDES PERMIT NO. GAR 100002 DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

DESIGN PROFESSIONAL:  
DAVID MORGAN, P.E.  
LEVEL II CERTIFICATION  
No.: 0000011643  
EXPIRES : 06/03/2024



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Georgia 30092  
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EOR/AOR SEAL



1/20/2023  
CLIENT INFORMATION

**FAYETTE COUNTY**  
140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME  
**DOWNING COURT  
CULVERT  
REPLACEMENT**  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE	DESCRIPTION	MARK
12/12/2022	100% DESIGN PLANS	

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

**EROSION AND  
SEDIMENT  
CONTROL  
NOTES**

SHEET NUMBER

**CE002**

SHEET 9 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"

FILE PATH: X:\FY21\1210495\04\_CAD\_BIM\04\_02\_CAD\CE001 PLOTTED BY: MURRAY, DANIELLE DATE: 12/12/22



EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST		
INFRASTRUCTURE CONSTRUCTION PROJECTS		
SWCD: TOWALIGA		
Project Name: DOWING COURT STORM DRAIN REPLACEMENT Address: 116 DOWNING COURT		
City/County: Fayette County Date on Plans:		
Name & email of person filling out checklist: DAVID MORGAN - MORGAND@POND.CO		
Plan	Included	TO BE SHOWN ON ES&PC PLAN
Page #	Y/N	
CE-003	Y	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. <i>(The completed Checklist must be submitted with the ES&amp;PC Plan or the Plan will not be reviewed)</i>
CE-001	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. <i>(Signature, seal and level II number must be on each sheet pertaining to ES&amp;PC Plan or the Plan will not be reviewed)</i>
N/A	N/A	3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
CE-001	Y	4 Provide the name, address, email address, and phone number of primary permittee.
CE-001	Y	5 Note total and disturbed acreages of the project or phase under construction.
CE-001	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
N/A	N/A	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
CE-001	Y	8 Descriptions of the nature of construction activity and existing site conditions.
CE-001	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
CE-001	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
CE-001	Y	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.
N/A	N/A	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. *
N/A	N/A	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. *
N/A	N/A	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. *
CE-001	Y	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 wooded 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."
CE-001	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
N/A	N/A	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." *
N/A	N/A	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." *

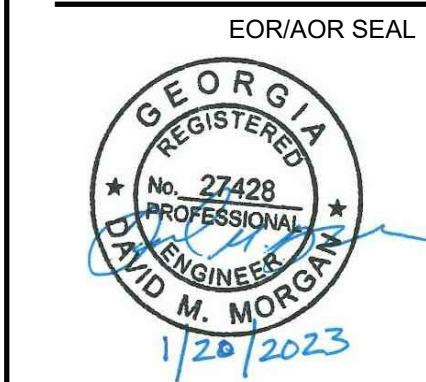
CE-001	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
CE-001	Y	20 Clearly note statement that "Erosion control measures will be maintained at all 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."
CE-001	Y	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."
N/A	N/A	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 a 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. *
N/A	N/A	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. *
N/A	N/A	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. *
CE-002	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
N/A	N/A	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. *
N/A	N/A	27 Description of practices to provide cover for building materials and building products on site. *
N/A	N/A	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
CE-001	Y	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).
N/A	N/A	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
N/A	N/A	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
N/A	N/A	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
N/A	N/A	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
N/A	N/A	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
N/A	N/A	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. *
N/A	N/A	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. *
CE Plan	Y	37 Graphic scale and North arrow.
CE Plan	Y	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

N/A	N/A	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 GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A	N/A	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. *
CE Plan	Y	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.
CE Plan	Y	42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
CE Plan	Y	43 Delineation and acreage of contributing drainage basins on the project site.
N/A	N/A	44 Delineate on-site drainage and off-site watersheds using USGS 1": .2000' topographical sheets.
CE-Plan	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
N/A	N/A	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
CE-001	Y	47 Soil series for the project site and their delineation.
CE Plan	Y	48 The limits of disturbance for each phase of construction.
CE-101	Y	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.
CE-201	Y	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.
CE plan	Y	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.
CE-502	Y	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.
CE-503	Y	* 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, 2022

JANUARY 1, 2023

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CLIENT INFORMATION  
**FAYETTE COUNTY**  
 140 STONEWALL AVE W, STE 203  
 FAYETTEVILLE, GA. 30214

PROJECT NAME  
**DOWNING COURT  
 CULVERT  
 REPLACEMENT**  
 FAYETTE COUNTY, GA

DRAWING ISSUE  
 DESIGNED BY: MDW  
 DRAWN BY: MDW  
 CHECKED BY: DMM/MDM  
 SUBMITTED BY: DMM  
 DATE: SEPTEMBER 1, 2022  
 PROJECT # 1210495

SHEET TITLE  
**EROSION AND  
 SEDIMENT  
 CONTROL  
 NOTES**

SHEET NUMBER  
**CE003**  
 SHEET 10 OF 16  
 ORIGINAL SHEET SIZE:  
 22" X 34"

FILE PATH: X:\FY21\1210495\04\_CAD\_BIM\04\_02\_CAD\CE001\_PLOTTED BY: MURRAY, DANIELLE DATE: 12/12/22



GENERAL SHEET NOTES

- REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF EROSION CONTROL PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT 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.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
- CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.



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140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME

**DOWNING  
COURT  
CULVERT  
REPLACEMENT**  
FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE
	100% DESIGN PLANS	12/12/2022

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

**EROSION AND  
SEDIMENT  
CONTROL PLAN  
INITIAL PHASE**

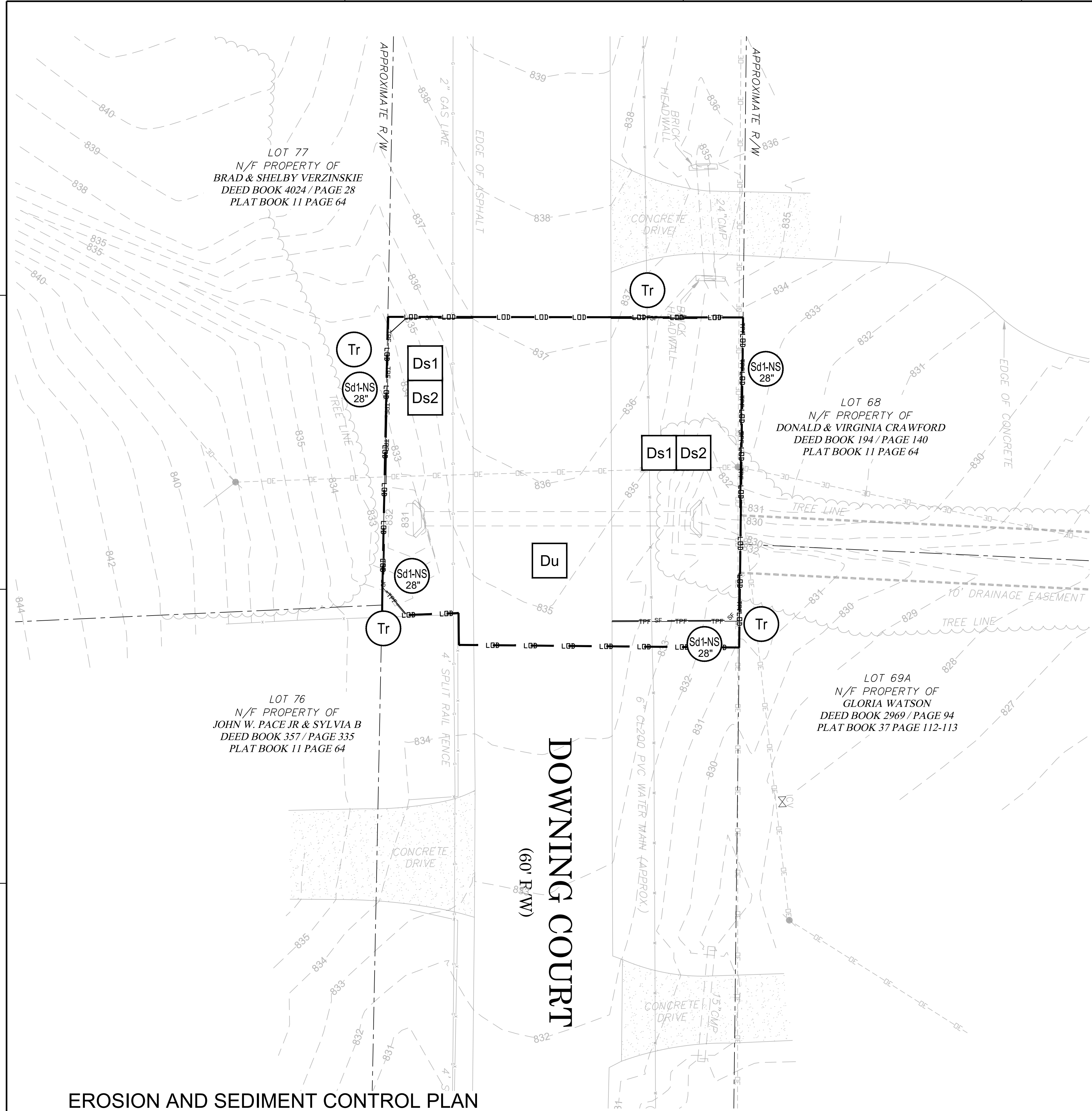
SHEET NUMBER

**CE101**

SHEET 11 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"

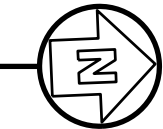
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**EROSION AND SEDIMENT CONTROL PLAN  
INITIAL PHASE**

A1

SCALE: 1" = 10'



FILE PATH: X:\FY21\1210495\04\CAD\_BIM\04\_02\CAD\ICE101 PLOTTED BY: MURRAY, DANIELLE DATE: 12/12/22





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CLIENT INFORMATION

**FAYETTE COUNTY**

140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA, 30214

PROJECT NAME

**DOWNING  
COURT  
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DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

**EROSION AND  
SEDIMENT  
CONTROL PLAN  
FINAL PHASE**

SHEET NUMBER

**CE201**

SHEET 12 OF 16

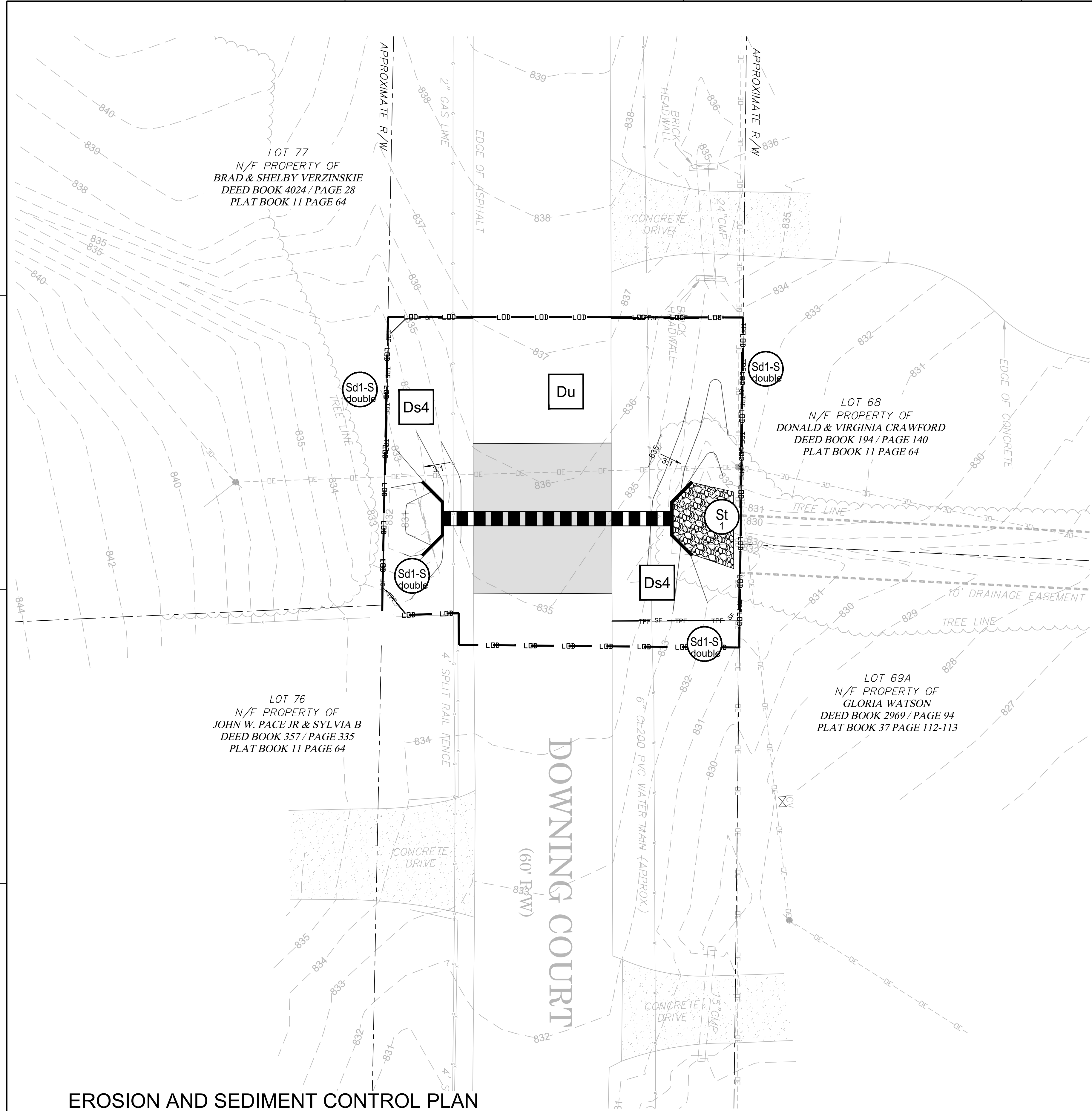
ORIGINAL SHEET SIZE:  
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**GENERAL SHEET NOTES**

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- CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.

**SHEET LEGEND**

- LOD — LOD — LIMITS OF DISTURBANCE
- - - - - APPROXIMATE RIGHT OF WAY / PROPERTY LINE
- SF — SILT FENCE
- TPF — TPF

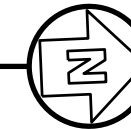


**EROSION AND SEDIMENT CONTROL PLAN**

**FINAL PHASE**

A1

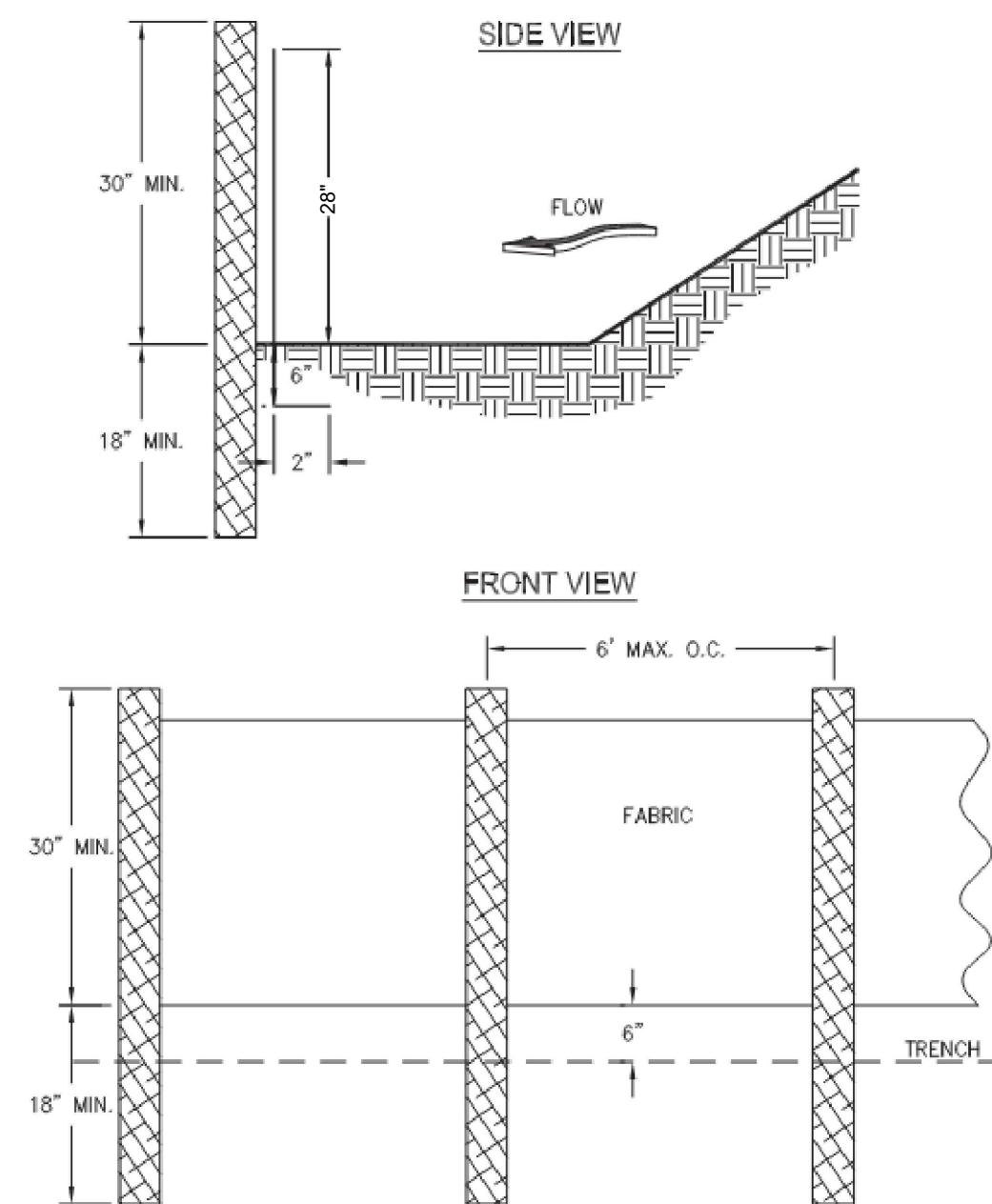
SCALE: 1" = 10'



FILE PATH: X:\FY21\1210495\04.CAD\_BIM\04\_02.CAD\CE201 PLOTTED BY: MURRAY, DANIELLE DATE: 12/12/22



### SILT FENCE - TYPE A and B



- NOTES:**
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

**C1** TYPE 'NS' SILT FENCE  
NO SCALE

Sd1-NS

#### METHODS AND MATERIALS

##### A. TEMPORARY METHODS

**MULCHES**  
SEE MULCHING. SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL.

**VEGETATIVE COVER**  
SEE TEMPORARY SEEDING.

**SPRAY-ON ADHESIVES**  
THESE ARE USED ON MINERALS SOILS. KEEP TRAFFIC OFF THESE AREAS.

**SPRINKLING**  
THE SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED. THIS METHOD IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND OTHER TRAFFIC ROUTES.

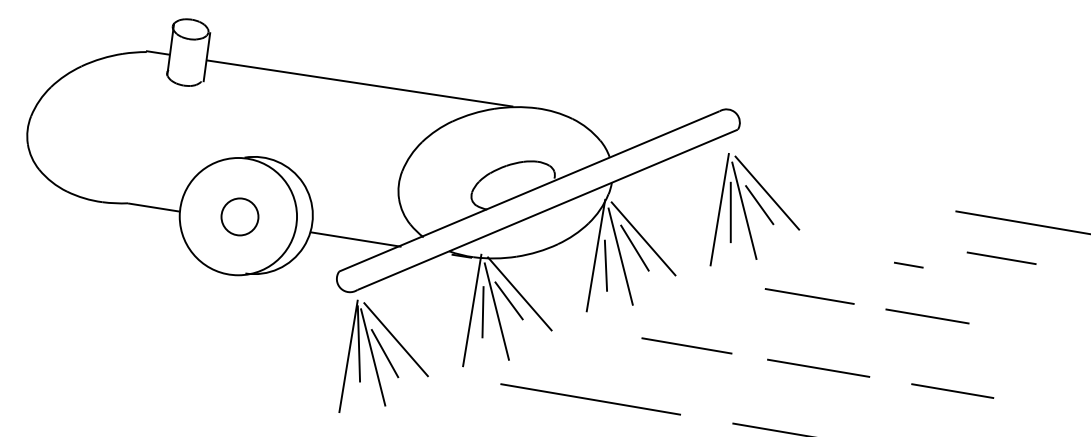
**BARRIERS**  
SOLID BOARD FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

##### B. PERMANENT METHODS

**PERMANENT VEGETATION**  
SEE STANDARD FOR PERMANENT SEEDING, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

**TOPSOILING**  
THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE TOPSOILING.

**STONE**  
COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



#### MULCHING MATERIAL

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE.
2. WOOD WASTE (CHIPS, SAWDUST, OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH.
3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ. YD.)
4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION.

#### APPLYING MULCH

1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY DECOMPOSITION OF THE ORGANIC MULCHES.
3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.
4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

#### ANCHORING MULCH

1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE USED SMOOTH OR SERRATED AND SHOULD BE 20 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN UPRIGHT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.

STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION T5-TACKIFIERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENING OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

TABLE 1. Mulching Application Requirements

MATERIAL	RATE	DEPTH
Straw or hay	-	2" to 4"
Wood waste, chips, sawdust, bark	-	2" to 3"
Cutback asphalt	1200 gal./acre, 1/4 gal./sq. yd./ or see manufacturer's recommendations	-
Polyethylene film	Secure with soil, anchors, weights	-
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	-

#### INSTALLATION NOTES:

1. INSTALL ALL OTHER REQUIRED BMPs FIRST.
2. GRADE SITE, IF POSSIBLE, TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
3. LOOSEN COMPACTED SOIL, IF POSSIBLE, TO A DEPTH OF 3 INCHES.
4. APPLY STRAW OR HAY UNIFORMLY, AS SHOWN IN TABLE 1, BY HAND OR MECHANICAL EQUIPMENT, AND ANCHOR BY PRESSING INTO SOIL OR USING NETTING.
5. MULCH ON SLOPES GREATER THAN 3% SHOULD BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1) OR OTHER SUITABLE TACKIFIER.
6. WOOD WASTE ON SLOPES FLATTER THAN 3:1 DO NOT NEED ANCHORING.
7. MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS LEFT INACTIVE FOR FOURTEEN DAYS.

#### MAINTENANCE NOTES:

1. ADD MULCH AS NEEDED TO MAINTAIN THE SUGGESTED DEPTH.
2. IF ORGANIC MULCH IS TO BE LEFT AND INCORPORATED INTO THE SOIL, APPLY 20-30 POUNDS OF NITROGEN IN ADDITION TO THE FERTILIZER REQUIRED FOR VEGETATION.

### DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

**A1** DUST CONTROL  
NO SCALE

Du

**A2** NO SCALE

Ds1



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CLIENT INFORMATION

### FAYETTE COUNTY

140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME

**DOWNING  
COURT  
CULVERT  
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

12/12/2022  
DATE

100% DESIGN PLANS  
DESCRIPTION

MARK

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

**EROSION AND  
SEDIMENT  
CONTROL  
DETAILS**

DESIGN PROFESSIONAL:  
DAVID MORGAN, P.E.  
LEVEL II CERTIFICATION  
No.: 0000011643  
EXPIRES : 06/03/2024



Know what's below.  
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Dial 811  
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SHEET NUMBER

**CE501**

SHEET 13 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"



**TEMPORARY SEEDING:**  
**SEEDBED PREPARATION:** WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL HAVE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.  
**LIME AND FERTILIZER:** AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO SEE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OF THE EQUIVALENT PER ACRE (12-16 LBS./1000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

**SEEDING:**  
 REFER TO TEMPORARY SEEDING CHART THIS PAGE.

APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROXIMATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE RAKED LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND.

Species	Broadcast Rates - PLS Per Acre	Broadcast Rates - PLS Per 1000 sq. ft.	Planting Dates (Solid lines indicate optimum dates, dotted lines indicated permissible but marginal dates.)
BARLEY (Hordeum vulgare)	3 bu. (144 lbs.) alone ½ bu. (24 lbs.) in mixtures	3.3 lb. 0.6 lb.	J F M A M J J A S O N D
LESPEDEZA, ANNUAL (lepedeza striata)	40 lbs. alone 10 lbs. in mixtures	0.9 lb. 0.2 lb.	J F M A M J J A S O N D
LOVEGRASS, WEEPING (Eragrostis curvula)	4 lbs. alone 2 lbs. in mixtures	0.1 lb. 0.05 lb.	J F M A M J J A S O N D
MILLET, BROWNTOP (Panicum fasciculatum)	40 lbs. alone 10 lbs. in mixtures	0.9 lb. 0.2 lb.	J F M A M J J A S O N D
MILLET, PEARL (Pennisetum glaucum)	50 lbs. alone	1.1 lb.	J F M A M J J A S O N D
OATS (Avena sativa)	4 bu. (128 lbs.) alone 1 bu. (32 lbs.) in mixtures	2.9 lb. 0.7 lb.	J F M A M J J A S O N D
RYE (Secale cereale)	3 bu. (168 lbs.) alone ½ bu. (28 lbs.) in mixtures	3.9 lb. 0.6 lb.	J F M A M J J A S O N D
RYEGRASS, ANNUAL (Lolium temulentum)	40 lbs. alone	0.9 lb.	J F M A M J J A S O N D
SUDANGRASS (Sorghum sudanese)	60 lbs. alone	1.4 lb.	J F M A M J J A S O N D
WHEAT (Triticum aestivum)	3 bu. (180 lbs.) alone ½ bu. (30 lbs.) in mixtures	4.1 lb. 0.7 lb.	J F M A M J J A S O N D

TABLE 2. FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	30
Cool season grasses and legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	-
	Maintenance	0-10-10	400	-
Temporary cover crops seeded alone	First	10-10-10	500	30
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

**INSTALLATION NOTES:**

- INSTALL ALL E&SC MEASURES PRIOR TO APPLYING TEMPORARY VEGETATION.
- GRADING OR SHAPING ARE NOT REQUIRED IF SLOPES CAN BE PLANTED WITH A HYDROSEEDER OR BY HAND-SEEDING.
- SEEDBED PREPARATION IS NOT REQUIRED IF SOIL IS LOOSE AND NOT SEALED BY RAIN.
- WHEN THE SOIL IS SEALED OR CRUSTED, IT SHOULD BE PITTED, TRENCHED OR SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
- AGRICULTURAL LIME IS NOT REQUIRED.
- FERTILIZE LOW FERTILITY SOILS PRIOR TO OR DURING PLANTING AT THE RATE OF 500-700 LBS./ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT (12-16 LBS./1000 SQ. FT.)
- IT IS IMPERATIVE THAT YOU CHECK THE TAG ON THE BAG OF SEED TO VERIFY THE TYPE AND GERMINATION OF THE SEED TO BE PLANTED.
- APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER. SEED PLANTED WITH A DRILL SHOULD BE PLANTED ½" - ¾" DEEP.
- APPLY IN ACCORDANCE WITH SPECIFICATIONS ON THE E&SC PLAN. IF INFORMATION IS NOT AVAILABLE, SELECT A TEMPORARY COVER FROM TABLE 1.
- TEMPORARY COVER SHALL BE APPLIED TO ALL DISTURBED AREAS LEFT IDE FOR 14 DAYS. (IF AN AREA IS LEFT IDE FOR 6 MONTHS, PERMANENT COVER SHALL BE APPLIED.)

**MAINTENANCE NOTE:**

RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.

TABLE 1. SOME TEMPORARY PLANT SPECIES, SEEDING RATES AND PLANTING DATES

Species	Rates per 1,000 sq. ft.	Rates per Acre	Region C (Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coastal Flatwoods)		
			Region M-L (Mountain, Blue Ridge, Ridges and Valley)	Region P (Southern Piedmont)	
Barley alone	3.3 lbs.	3 bu.	9 Sept. - 31 Oct.	15 Sept. - 15 Nov.	1 Oct. - 31 Dec.
Barley, in mixtures	0.6 lbs.	0.5 bu.			
Lespedeza, Annual	0.9 lbs.	40 lbs.	1 Mar. - 31 Mar.	1 Mar. - 31 Mar.	1 Feb. - 28 Feb.
Lespedeza, in mixtures	0.2 lbs.	10 lbs.			
Lovegrass, weeping	0.1 lbs.	4 lbs.	1 Apr. - 31 May	1 Apr. - 31 May	1 Mar. - 31 May
Lovegrass, in mixtures	0.05 lbs.	2 lbs.			
Millet, browntop	0.9 lbs.	40 lbs.			
Millet, in mixtures	0.2 lbs.	10 lbs.	15 Apr. - 15 Jun.	15 Apr. - 30 Jun.	15 Apr. - 30 Jun.
Millet, pearl	1.1 lbs.	50 lbs.	15 May - 15 Jul.	1 May - 31 Jul.	15 Apr. - 15 Aug.
Oats, alone	2.99 lbs.	4 bu.			
Oats, in mixtures	0.7 lbs.	1 bu.	15 Sept. - 15 Nov.	15 Sept. - 15 Nov.	15 Sept. - 15 Nov.
Rye (grain), alone	3.9 lbs.	3 bu.	15 Aug. - 31 Oct.	15 Sept. - 30 Nov.	1 Oct. - 31 Dec.
Rye, in mixtures	0.6 lbs.	0.5 bu.			
Ryegrass	0.9 lbs.	40 lbs.	15 Aug. - 15 Nov.	1 Sept. - 15 Dec.	15 Sept. - 31 Dec.
Sudangrass	1.4 lbs.	60 lbs.	1 May - 31 Jul.	1 May - 31 Jul.	1 Apr. - 31 Jul.
Triticale, alone	3.3 lbs.	3 bu.			
Triticale, in mixtures	0.6 lbs.	0.5 bu.			15 Oct. - 30 Nov.
Wheat, alone	4.1 lbs.	3 bu.			
Wheat, in mixtures	0.7 lbs.	0.5 bu.	15 Sept. - 30 Nov.	1 Oct. - 15 Dec.	15 Oct. - 31 Dec.

- UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVY SEEDING RATES.
- SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
- FOR MAJOR LAND RESOURCE AREAS (MLRAs), SEE "TACKIFIERS AND BINDERS" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
- SEEDING RATES ARE BASED ON PURE LIVE SEED (PLS).

**A1 SEEDING SCHEDULE TEMPORARY COVER**  
NO SCALE

Ds2

**DEFINITION**

A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

**CONDITIONS**

THIS APPLICATION IS APPROPRIATE FOR AREAS WHICH REQUIRE IMMEDIATE VEGETATIVE COVERS, DROP INLETS, GRASS SWALES, AND WATERWAYS WITH INTERMITTENT FLOW.

**PLANNING CONSIDERATIONS**

SODDING CAN INITIALLY BE MORE COSTLY THAN SEEDING, BUT THE ADVANTAGES JUSTIFY THE INCREASED INITIAL COSTS.

- IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK USE.
- REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE LACK OF WEEDS
- CAN BE ESTABLISHED NEARLY YEAR-ROUND.

SODDING IS PREFERABLE TO SEED IN WATERWAYS AND SWALES BECAUSE OF THE IMMEDIATE PROTECTION OF THE CHANNEL AFTER APPLICATION. SODDING MUST BE STAKED IN CONCENTRATED FLOW AREAS (SEE FIGURE 6-6.1) CONSIDER USING SOIL FRAMED AROUND DROP INLETS TO REDUCE SEDIMENTS AND MAINTAINING THE GRADE.

**CONSTRUCTION SPECIFICATIONS INSTALLATION**

**SOIL PREPARATION**

BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLOUDS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS. TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DON'T USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS. MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR TABLE 6-6.1.

**INSTALLATION**

LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD (SEE FIGURE 6-6.2) ON SLOPES STEEPER THAN 3:1. SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS. INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SOIL. IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION. SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.

**MATERIALS**

SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE.

- SOD SHOULD BE MACHINE CUT AND CONTAIN 3/4" (+ OR - 1/4") OF SOIL, NOT INCLUDING SHOOTS OR THATCH.
- SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN 4" OR 5% TORN OR UNEVEN PADS SHOULD BE REJECTED.
- SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
- AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE
- THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO TABLE 6-6.2. SEE FIGURE 6-4.1 FOR YOUR RESOURCE AREA.

**MAINTENANCE**

RE-SOD AREAS WHERE AN ADEQUATE STAND OF SOD IS NOT OBTAINED. NEW SOD SHOULD BE MOWED SPARINGLY. GRASS HEIGHT SHOULD NOT BE CUT LESS THAN 2"-3" OR AS SPECIFIED (SEE FIGURE 6-6.2). APPLY ONE TON OF AGRICULTURAL LIME AS INDICATED BY SOIL TEST OR EVERY 4-6 YEARS. FERTILIZE GRASSES IN ACCORDANCE WITH SOIL TESTS OR TABLE 6-6.3

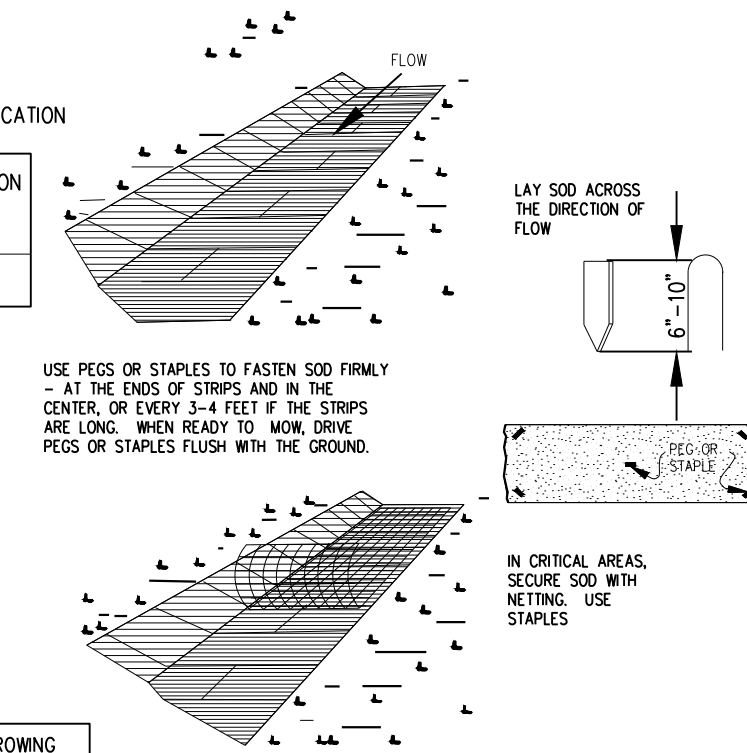
**FERTILIZER REQUIREMENTS FOR SOD**

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (lbs./acre)	NITROGEN TOP DRESSING RATE (lbs./acre)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	30
	MAINTENANCE	10-10-10	400	-
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30

**FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION**

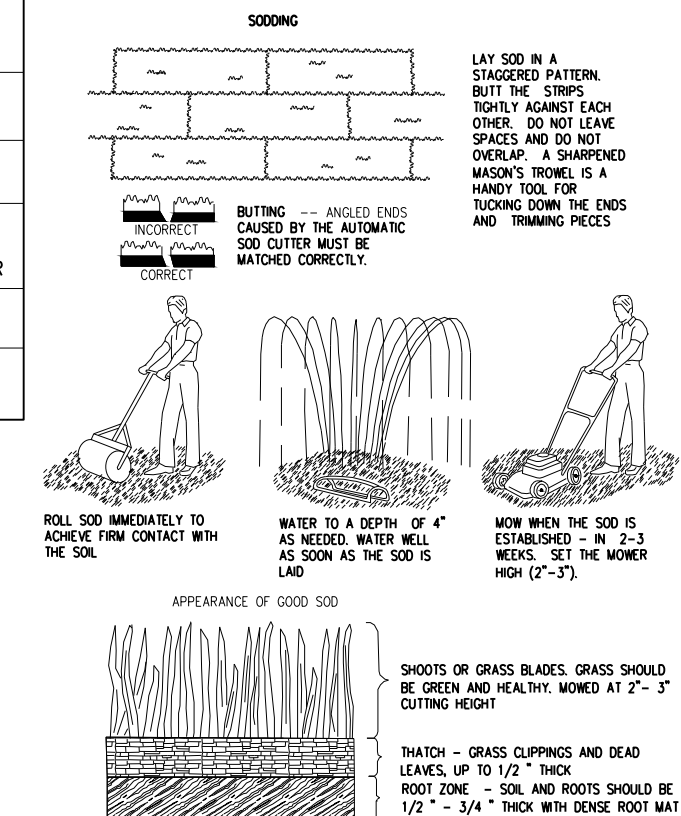
FERTILIZER TYPE	FERTILIZER RATE (lbs/acre)	FERTILIZER RATE (lbs/sq ft)	SEASON
10-10-10	1000	.025	FALL

AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.



**SOD PLANTING REQUIREMENTS**

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDAGRASS	COMMON TIFWAY TIFGREEN TIFLAWN	M-L-P C P.C P.C	WARM WEATHER
BAHAGRASS	PENSACOLA	P.C	WARM WEATHER
CENTPEDE	-	P.C	WARM WEATHER
ST. AUGUSTINE	COMMON BITTERSBLUE RALEIGH	C	WARM WEATHER
ZOYSIA	EMERALD MYER	P.C	WARM WEATHER
TALL FESCUE	KENTUCKY	M-L-P	COOL WEATHER



Ds-4 DISTURBED AREA STABILIZATION W/ SODDING N.T.S.

Ds4



3500 Parkway Lane  
Suite 500  
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CLIENT INFORMATION

**FAYETTE COUNTY**

140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME

**DOWNING COURT  
CULVERT  
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

100% DESIGN PLANS

DESCRIPTION

MARK

DESIGNED BY: MDW

DRAWN BY: MDW

CHECKED BY: DMM/MDM

SUBMITTED BY: DMM

DATE: SEPTEMBER 1, 2022

PROJECT # 1210495

SHEET TITLE

**EROSION AND  
SEDIMENT  
CONTROL  
DETAILS**

DESIGN PROFESSIONAL:  
DAVID MORGAN, P.E.  
LEVEL II CERTIFICATION  
No.: 0000011643  
EXPIRES : 06/03/2024



Know what's below.  
Call before you dig.  
Dial 811  
Or Call 800-282-7411

SHEET NUMBER

**CE502**

SHEET 14 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"

100% DESIGN. ISSUED FOR CONSTRUCTION



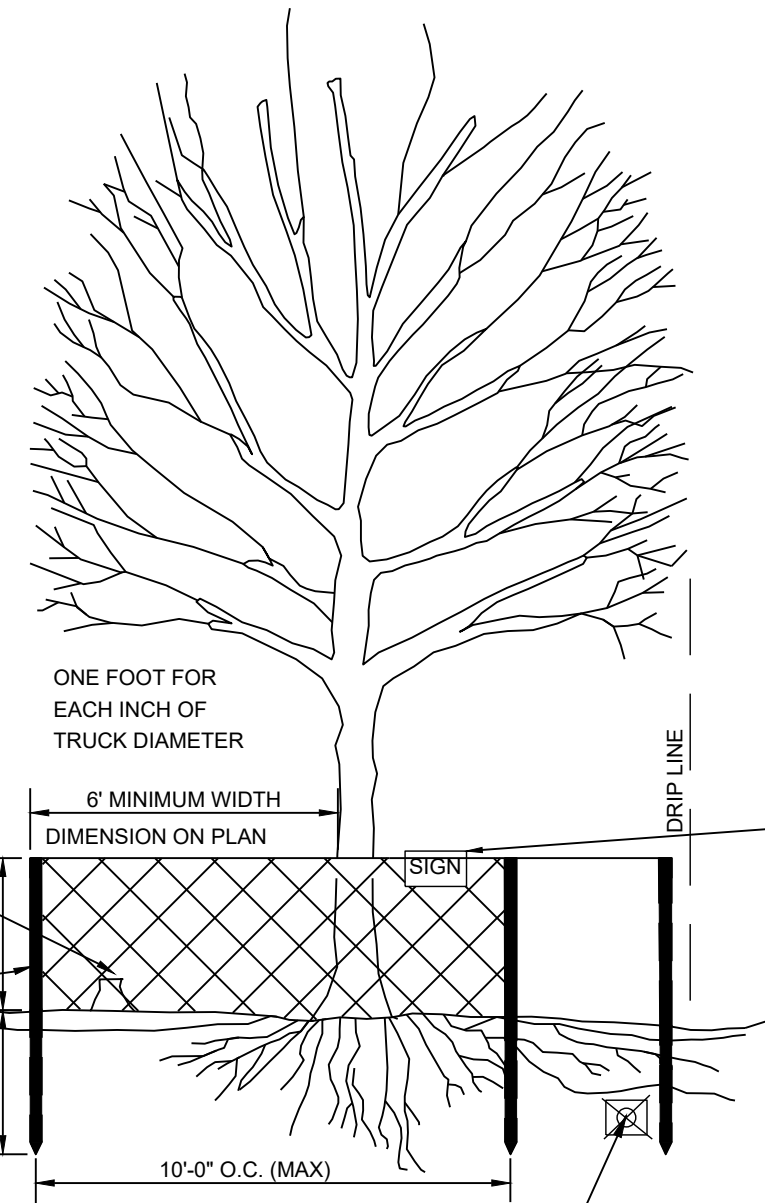
ANY ROOT OR BRANCH PRUNING SHALL BE DONE ONLY BY A LICENSED ARBORIST AT CONTRACTORS EXPENSE. NO GRADE CHANGE IS TO OCCUR IN TREE SAVE AREA. NO TREE WELLS OR AERATION SYSTEM. DO NOT DISTURB ORIGINAL GRADE.

DEAD TREES AND SHRUB GROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. NO GRUBBING ALLOWED UNDER DRIP LINE.

ORANGE SAFETY NET ON METAL POSTS; 2"x4"x4" STANDARDS

REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.

DESTRUCTION/DEATH OF TREE DUE TO CONTRACTOR OPERATIONS WILL REQUIRE "RECOMPENSE" PLANTING, AT CONTRACTOR'S EXPENSE.



- NOTES:**
1. 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)
  2. 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.

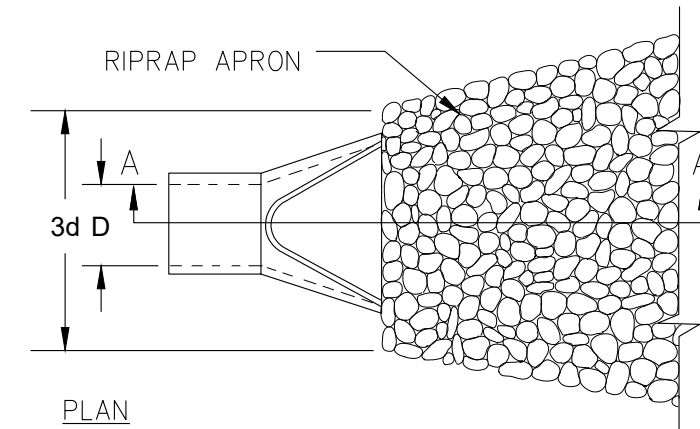
TREE SAVE AREA: STAY OUT, NO GRADING, NO TRECHING, NO MATERIALS STORAGE, NO VEHICLES

NO TRENCHING OR TUNNELING FOR UTILITIES IN TREE SAVE AREA

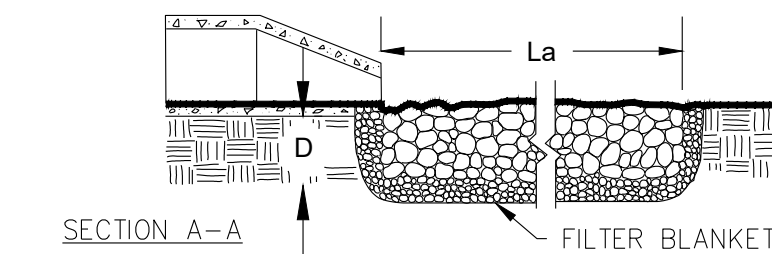
**C1 TREE PROTECTION FENCE**  
NO SCALE

Tr

**PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL**



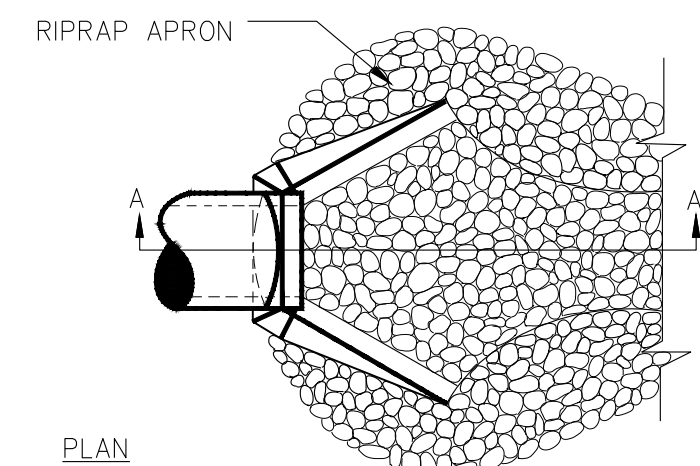
PLAN



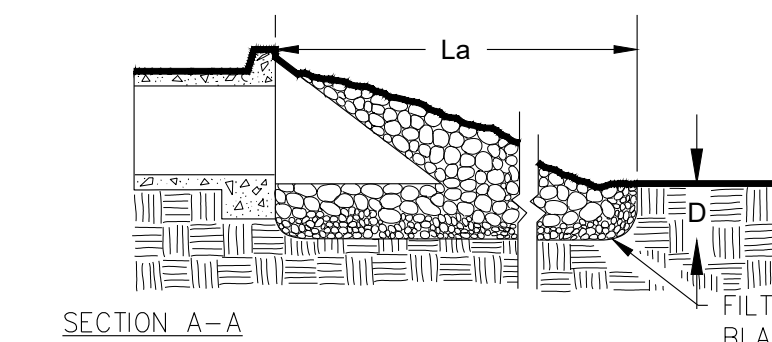
SECTION A-A

- NOTES:**
1.  $L_a$  IS THE LENGTH OF THE RIPRAP APRON.
  2.  $D = 1.5$  TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
  3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
  4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

**PIPE OUTLET TO WELL DEFINED CHANNEL**



PLAN



SECTION A-A

**A1 STORM DRAIN OUTLET PROTECTION**  
NO SCALE

St



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CLIENT INFORMATION

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140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME

**DOWNING COURT  
CULVERT  
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

12/12/2022 DATE

100% DESIGN PLANS DESCRIPTION

MARK

DESIGNED BY: MDW  
DRAWN BY: MDW  
CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT # 1210495

SHEET TITLE

**EROSION AND  
SEDIMENT  
CONTROL  
DETAILS**

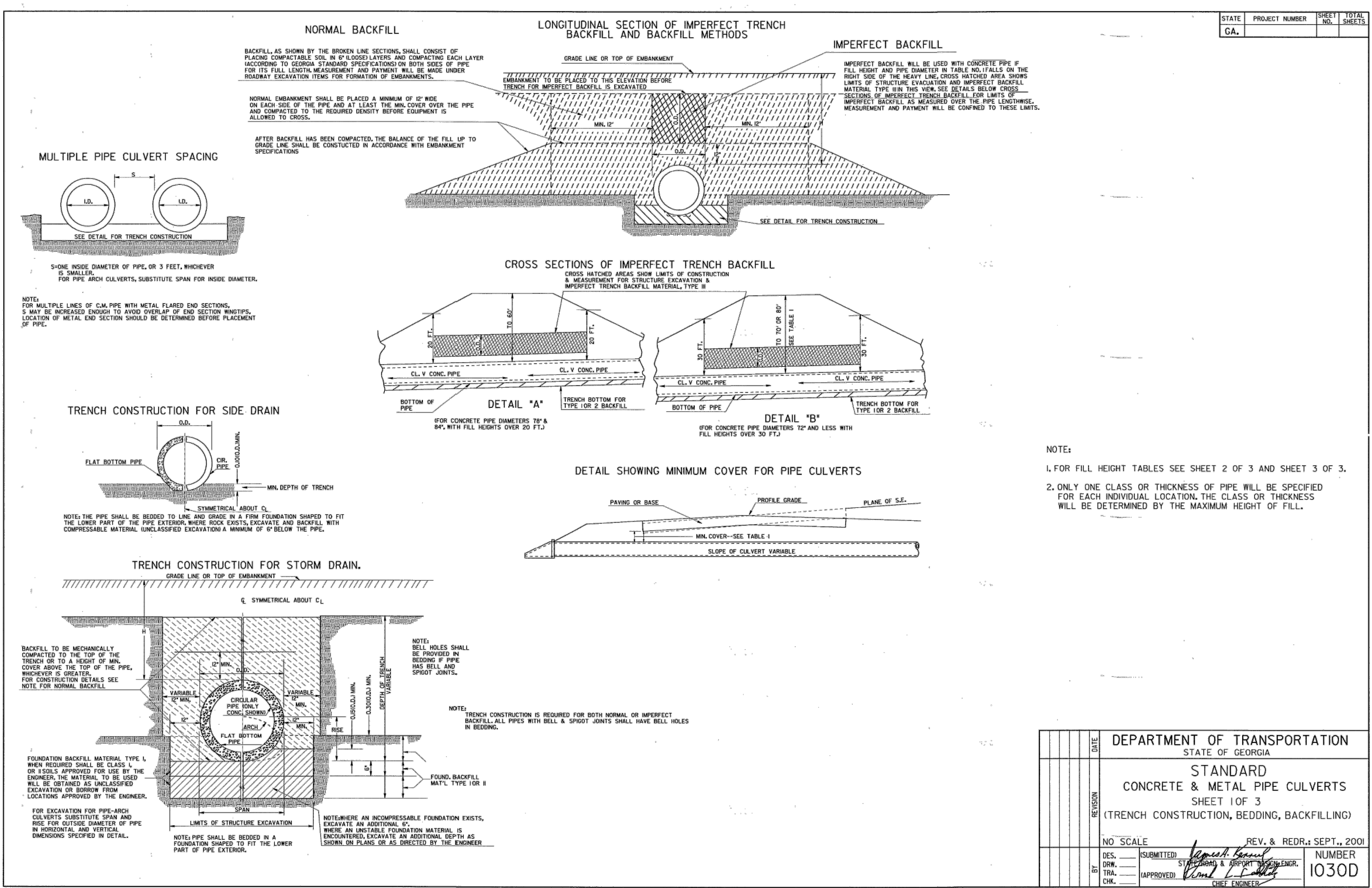
SHEET NUMBER

**CE503**

SHEET 15 OF 16

ORIGINAL SHEET SIZE:  
22" X 34"



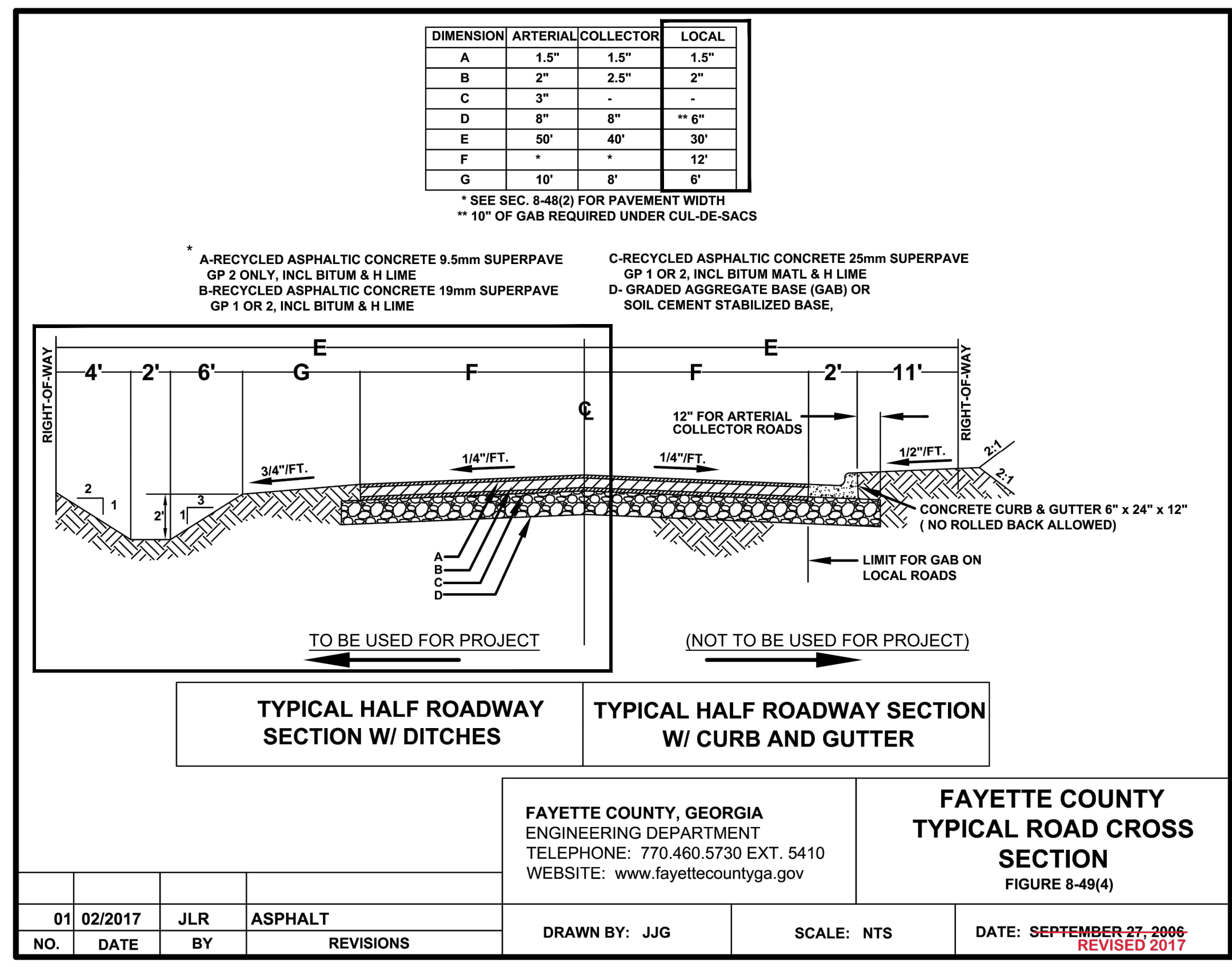


DATE	01/02/2017	BY	JLR	REVISIONS	ASPHALT
NO.	01	DATE	02/2017	BY	JLR

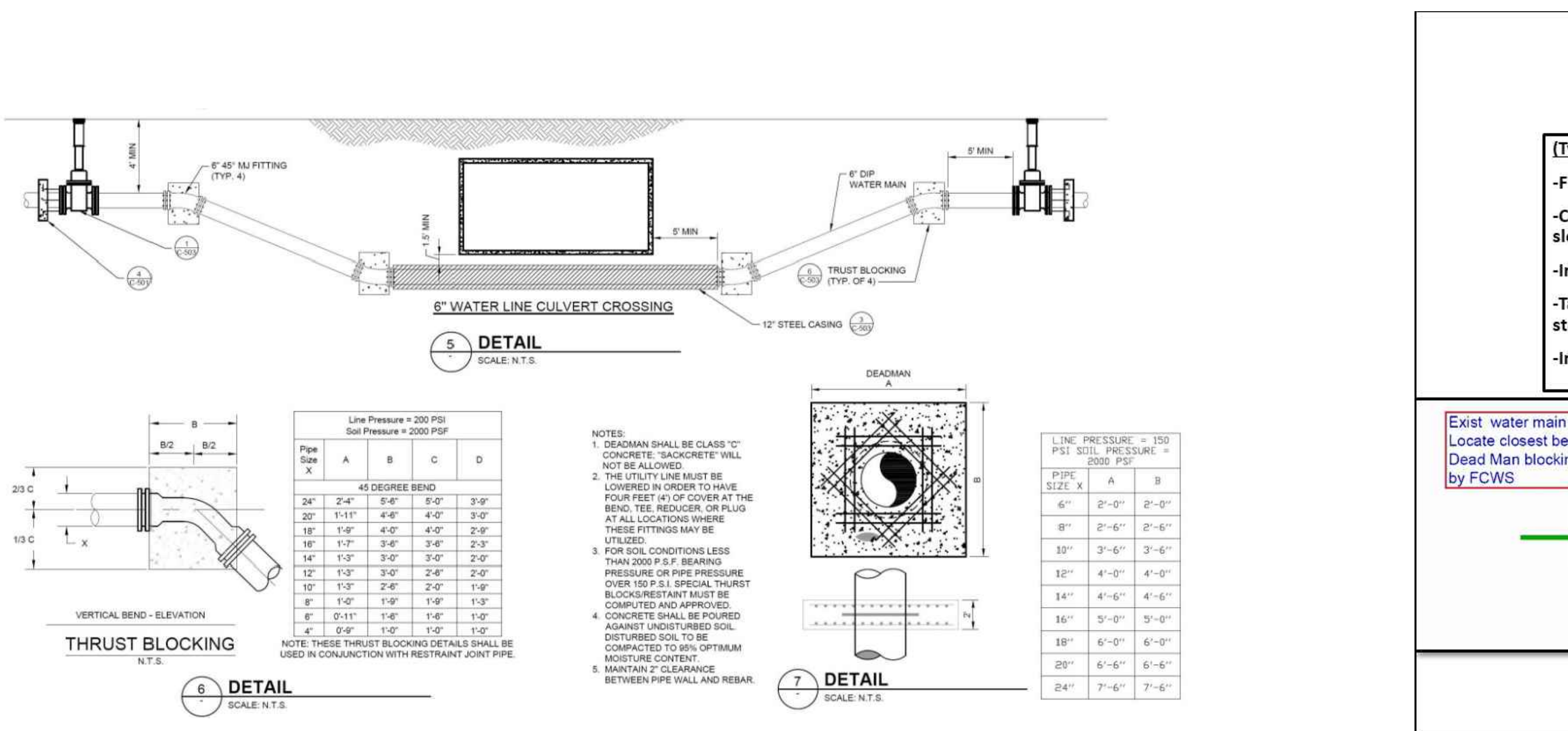
DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
STANDARD  
CONCRETE & METAL PIPE CULVERTS  
SHEET 1 OF 3  
(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)

NO SCALE  
REV. & REDL. SEPT., 2001  
SUBMITTED BY: *[Signature]*  
APPROVED BY: *[Signature]*  
DATE: 10/30/01

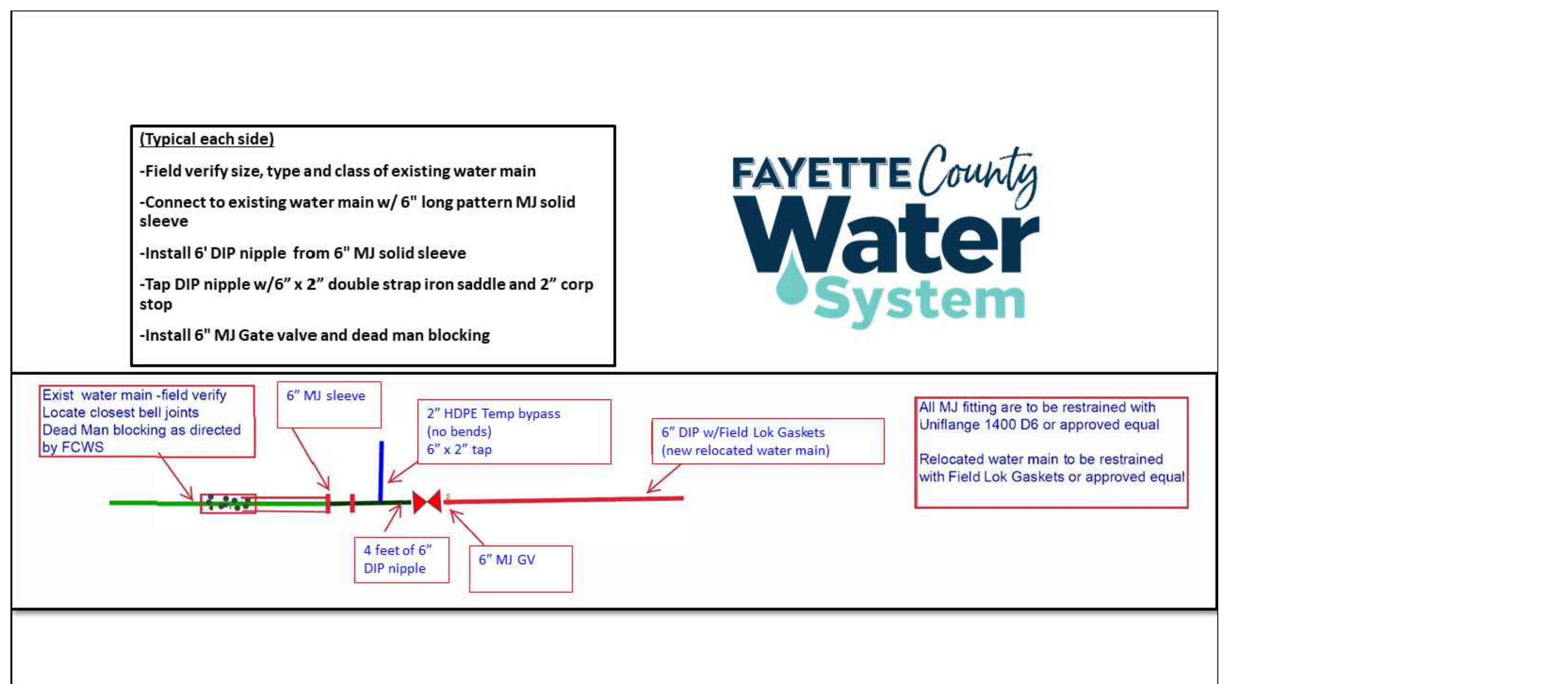
**A1** GDOT CONCRETE & METAL PIPE CULVERTS STANDARD  
NO SCALE



**C4** FAYETTE COUNTY TYPICAL ROAD CROSS SECTION  
NO SCALE



**A1** WATERLINE CROSSING DETAIL  
NO SCALE



**B1** FAYETTE COUNTY WATER DETAILS  
NO SCALE

**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
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EOR/AOR SEAL  
**DAVID M. MORGAN**  
REGISTERED PROFESSIONAL ENGINEER  
No. 27428  
1/20/2023

CLIENT INFORMATION  
**FAYETTE COUNTY**  
140 STONEWALL AVE W, STE 203  
FAYETTEVILLE, GA. 30214

PROJECT NAME  
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FAYETTE COUNTY, GA

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DESCRIPTION: 100% DESIGN PLANS

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DESIGNED BY: MDW  
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CHECKED BY: DMM/MDM  
SUBMITTED BY: DMM  
DATE: SEPTEMBER 1, 2022  
PROJECT #: 1210495

SHEET TITLE  
**CONSTRUCTION  
DETAILS**

SHEET NUMBER  
**C-501**  
SHEET 16 OF 16  
ORIGINAL SHEET SIZE:  
22" X 34"