

CIVIL CONSTRUCTION DOCUMENTS FOR FAYETTE COUNTY BRANDON MILL CIRCLE - CULVERT REPLACEMENT

140 BRANDON MILL CIRCLE, FAYETTE COUNTY, GA.

N33°28'49.467", W84°27'46.156"

ISSUED FOR REVIEW

COUNTY PROJECT NUMBER: 25SAG



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

**140 BRANDON MILL CIRCLE
CULVERT
REPLACEMENT**
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-001

SHEET 1 OF 24

ORIGINAL SHEET SIZE:
22" X 34"

| Sheet List Table | |
|------------------|---|
| Sheet Number | Sheet Title |
| G-001 | COVER SHEET |
| C-001 | GENERAL CIVIL NOTES, ABBREVIATIONS, AND LEGEND |
| C-002 | GENERAL CIVIL NOTES, ABBREVIATIONS, AND LEGEND |
| V-001 | TOPOGRAPHIC SURVEY |
| CD101 | DEMOLITION PLAN |
| CG101 | SITE AND GRADING PLAN |
| CG201 | STORM PROFILE |
| CG301 | EASEMENT EXHIBIT |
| C-501 | CONSTRUCTION DETAILS |
| C-502 | CONSTRUCTION DETAILS |
| C-503 | CONSTRUCTION DETAILS |
| C-504 | CONSTRUCTION DETAILS |
| C-505 | CONSTRUCTION DETAILS |
| C-506 | CONSTRUCTION DETAILS |
| CE001 | EROSION AND SEDIMENT CONTROL NOTES |
| CE002 | EROSION AND SEDIMENT CONTROL NOTES |
| CE003 | EROSION AND SEDIMENT CONTROL NOTES |
| CE101 | EROSION AND SEDIMENT CONTROL PLAN - INITIAL PHASE |
| CE201 | EROSION AND SEDIMENT CONTROL PLAN - FINAL PHASE |
| CE501 | EROSION AND SEDIMENT CONTROL DETAILS |
| CE502 | EROSION AND SEDIMENT CONTROL DETAILS |
| CE503 | EROSION AND SEDIMENT CONTROL DETAILS |
| CE504 | EROSION AND SEDIMENT CONTROL DETAILS |
| CE505 | EROSION AND SEDIMENT CONTROL DETAILS |

| 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: CODY OWENBY, P.E. Cody.Owenby@pondco.com CIVIL ENGINEER: CODY OWENBY, 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 48-INCH DIAMETER CMP CULVERT. THE CULVERT IS TO BE REPLACED WITH A 171 LF 48-INCH HDPE, 160 LF 54-INCH HDPE, AND 28 LF 60-INCH RCP CULVERT.

PROJECT INFORMATION:

DISTURBED AREA:
0.23 ACRES

IMPERVIOUS SURFACE AREA:
0.02 ACRES

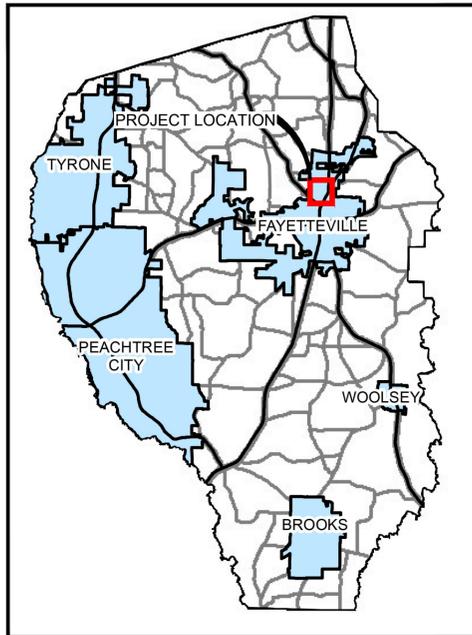
PIPE CROSSING IN CENTER OF ROAD COORDINATES:
N33°28'49.467", W84°27'46.156"

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.



VICINITY MAP

SCALE: NTS



PROJECT SITE



| UTILITY NOTIFICATION/RELOCATION CHECKBOX | | | | |
|--|------------|---|---------------|---|
| UTILITY COMPANY | PLAN PHASE | CONTACT | DATE NOTIFIED | UTILITY RESPONSE |
| SOUTHERN COMPANY | 35% DESIGN | MFLOYD@SOUTHERNCO.COM TAGALLAND@SOUTHERNCO.COM | N/A | NO RESPONSE |
| | 95% DESIGN | | 4/23/2025 | |
| FAYETTE COUNTY WATER SYSTEM (FCWS) | 35% DESIGN | TERRY BOGGS (WATERSYSTEMDEVELOPMENT@FAYETTECOUNTYGA.GOV) | N/A | NO RESPONSE |
| | 95% DESIGN | | 4/23/2025 | |
| COMCAST | 35% DESIGN | STEPHEN ADAMS (STEPHEN_ADAMS@COMCAST.COM) | N/A | NO RESPONSE |
| | 95% DESIGN | | 4/23/2025 | |
| COWETA-FAYETTE EMC | 35% DESIGN | STEVE JONES (STJONES@UTILITY.ORG) | N/A | NO RESPONSE |
| | 95% DESIGN | | 4/23/2025 | |
| ATT | 35% DESIGN | ANDRE WALTON (AW9750@ATT.COM) JERMAINE MEEKINS (JM0840@ATT.COM) | N/A | SUPPORT IN PLACE IS ALLOWED, BUT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE |
| | 95% DESIGN | | 4/23/2025 | |
| ZAYO | 35% DESIGN | MAX SMITH (MAX.SMITH@COBBFENDLEY.COM) ZAYOGEORGIARELOCATIONS@COBBFENDLEY.COM | N/A | NO FACILITIES |
| | 95% DESIGN | | 4/23/2025 | |



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ABBREVIATIONS

| | | | | | | | |
|-------------|--------------------------------------|---------|--|--------|--|--------|---------------------------------|
| AAP | ALARM ANNUNCIATOR PANEL AUTOMATIC | E | EAST | LEN | LEN LENGTH | RPM | REVOLUTIONS PER MINUTE |
| AARV | AIR RELEASE VALVE AUTOMATIC | EA | EACH | LB | POUND(S) | RR | RAILROAD |
| AAV | AIR VENT | ECC | ECCENTRIC | RT | LINEAR FEET | RVT | RIGHT |
| AB | ANCHOR BOLT | EF | EACH FACE | LP | LIGHT POLE | RW | RIVETED |
| ABAN | ABANDON(ED) | EFF | EFFLUENT | LS | LIME SLURRY | RWW | RAW WATER |
| ABRSV | ABRASIVE | EFL | EASEMENT LINE | LSS | LIME STABILIZED SLUDGE | RW | RAW WASTEWATER |
| ABS | ACRYLONITRILE BUTADIENE STYRENE | EL | ELEVATION | LVR | LOUVER | R/W | RIGHT-OF-WAY |
| ABV | ABOVE | ELAST | ELASTOMERIC | LWL | LOW WATER LEVEL | S | SOUTH |
| AC | ALTERNATING CURRENT | ELEC | ELECTRICAL | M | METER | S | SAMPLE LINE |
| ACCOMP | ASPHALT-COATED CORRUGATED METAL PIPE | EMER | EMERGENCY | MAINT | MAINTAIN OR MAINTENANCE | SAN | SANITARY |
| ACP | ASBESTOS CEMENT PIPE | ENGR | ENGINEER | MAN | MANUAL(LY) | SCHED | SCHEDULE |
| ADDM | ADDENDUM | EP | EDGE OF PAVEMENT | MAS | MASONRY | SD | STORM DRAIN |
| ADH | ADHESIVE | EPDM | ETHYLENE PROPYLENE DIENE MONOMER | MATL | MATERIAL | SE | SOUTHEAST |
| AFF | ABOVE FINISHED FLOOR | EPRF | EXPLOSION PROOF EQUIPMENT | MAX | MAXIMUM | SECT | SECTION |
| AFG | ABOVE FINISHED GRADE | EQUIP | EQUIPMENT | MCC | MOTOR CONTROL CENTER | SEFF | SECONDARY EFFLUENT |
| AFS | ABOVE FINISHED SLAB | ER | ECCENTRIC REDUCER | ME | METERED END | SF | SQUARE FOOT OR FEET |
| AHD | AHEAD | ESTM | EASEMENT | MECH | MECHANICAL | SHT | SHEET(ED)(ING) |
| AL | ALUMINUM | EST | ESTIMATE(D) | MEG | MATCH EXISTING GRADE | SIG | SIGNAL |
| ALT | ALTERNATE | EW | EACH WAY | MFR | MANUFACTURE(R) | SIM | SIMILAR |
| AMP | AMPERE | EXC | EXCAVATE | MG | MILLION GALLONS | SL | SLUDGE |
| AMT | AMOUNT | EXP | EXPANSION | MGD | MILLION GALLONS PER DAY | SLV | SLEEVE |
| APRX | APPROXIMATE(LY) | EXST | EXISTING | MH | MANHOLE | SM | SHEET METAL |
| ARCH | ARCHITECT(URAL) | EXT | EXTENSION | MIN | MINIMUM | SOLN | SOLUTION |
| AS | ALUM SOLUTION | EXTN | EXTENSION | MIN | MINIMUM, MINUTE(S) | SP | SPACE(ING) |
| ASPH | ASPHALT | F | FABRICATE(D) | MISC | MISCELLANEOUS | SPEC | SPECIFICATION |
| ASSY | ASSEMBLY | FAB | FLANGED COUPLING ADAPTER | MJ | MECHANICAL JOINT | SPRT | SUPPORT |
| AVE | AVENUE | FCA | FLANGED COUPLING ADAPTER | ML | MIXED LIQUOR | SQ | SQUARE |
| A/C | AIR CONDITIONING | FB | FLAT BAR | MO | MASONRY OPENING | SS | SANITARY SEWER |
| A/VV | AIR/VACUUM AIR VALVE | FCV | FLOW CONTROL VALVE | MON | MONUMENT | SSE | SUBSTANDARD EFFLUENT |
| B | | FD | FLOOR DRAIN | MPH | MILES PER HOUR | SST | STAINLESS STEEL |
| BAF | BAFFLE | FE | FIRE HYDRANT | MFT | MALE PIPE THREAD | ST | STATION |
| BCV | BALL CHECK VALVE | FIG | FIGURE | MS | MOTOR STARTER | STA | STANDARD |
| BF | BLIND FLANGE | FIN | FINISH(ED) | MSP | MOTOR STARTER PANEL | STD | STANDARD |
| BFV | BUTTERFLY VALVE | FIN/FLR | FINISH FLOOR | MTD | MOUNTED | STK | STAKE |
| BHP | BRAKE HORSEPOWER | FIN/GR | FINISH GRADE | MV | MOTORIZED VALVE | STL | STEEL |
| BI | BLACK IRON | FL | FLUORIDE | MW | MANWAY | STR | STRAIGHT |
| BITUM | BITUMINUS OR BITUMASTIC | FLG | FLANGE(D) | MWL | MEAN WATER LEVEL | STRUC | STRUCTURAL |
| B/L | BASELINE | FLL | FLOW LINE | MWP | MAXIMUM WORKING PRESSURE | SURF | SURFACE |
| BLDG | BUILDING | FLTR | FILTER | N | NORTH | SV | SOLENOID VALVE |
| BLK | BLOCK | FM | FORCE MAIN | NaOCl | SODIUM HYPOCHLORITE | SVV | SERVICE WATER |
| BM | BENCH MARK | FPM | FEET PER MINUTE | NE | NORTH-EAST | SW | SOUTHWEST |
| BOC | BACK OF CURB | FPS | FEET PER SECOND | NI | NOT IN CONTRACT | SWD | SIDEWATER DEPTH |
| BOT | BOTTOM | FRP | FIBERGLASS REINFORCED PLASTIC | NO | NUMBER | SWSH | SURFACE WASH |
| BP | BASE PLATE | FT | FOOT OR FEET | NOM | NOMINAL | SYM | SYMBOL |
| BRG | BEARING | FV | FOOT VALVE | NPF | NATIONAL PIPE THREAD | SYMM | SYMMETRICAL |
| BSP | BLACK STEEL PIPE | FWP | FINISHED WATER | NPT | NATIONAL PIPE TAPER (THREAD) | S/W | SIDEWALK |
| BV | BLACK VALVE | F/F | FACTORY WIRED PANEL FACE TO FACE | NPW | NON-POTABLE WATER | T | TANGENT TOP OF BEAM |
| BW | BOTH WAYS | G | | NRS | NON-RISING SYSTEM | TAN TB | TEMPORARY BENCH MARK TEST |
| BWW | BACKWASH WATER | GA | GAL | NTS | NOT TO SCALE | TBM | TEMPORARY BENCH MARK TEST |
| C | | GALV | GALVANIZED | NW | NORTH WEST | TB-xx | BORING-xx (e.g. TB-1) |
| CAP | CAPACITY | GALVZ | GALVANIZED | N/A | NOT APPLICABLE | TD | TRENCH DRAIN |
| CA | COMPRESSED AIR | G | GAL | O | OXYGEN | TDH | TOTAL DYNAMIC HEAD |
| CAV | COMBINATION AIR VALVE | GALV | GALVANIZED | OD | OUTSIDE DIAMETER | TE | TOTALLY ENCLOSED |
| CB | CATCH BASIN | GALVZ | GALVANIZED | ODP | OPEN DRIP PROOF | TEFC | TOTALLY ENCLOSED FAN COOLED |
| CCC | CHLORINE CONTACT CHAMBER | G | GAL | OF | OUTSIDE FACE | TEL | TELEPHONE |
| CE | CHLORINATED EFFLUENT | GALV | GALVANIZED | OH | OVER HEAD | TENV | TOTALLY ENCLOSED NON-VENTILATED |
| CFM | CUBIC FEET PER MINUTE | GIP | GALVANIZED IRON PIPE | OHV | OVER HEAD WIRE | THD | THREAD(ED) |
| CFD | CUBIC FEET PER SECOND | GJ | GROOVE JOINT | OPP | OPPOSITE | THK | THICKNESS |
| CV | CHECK VALVE | GND | GROUND | OPT | OPTIONAL | TLM | TELEMETRY |
| CI | CAST IRON | GPD | GALLONS PER DAY | OR | OFFICIAL RECORDS | TOB | TOP OF BANK |
| CIP | CAST IRON PIPE | GPH | GALLONS PER HOUR | OSY | OUTSIDE SCREW AND YOKE OPERATION AND MAINTENANCE | TOC | TOP OF CURB |
| CISP | CAST IRON SOIL PIPE | GPM | GALLONS PER MINUTE | O&M | | TOS | TOE OF SLOPE |
| CJ | CONSTRUCTION JOINT | GPS | GALLONS PER SECOND | P | PROCESS AIR | TOT | TOTAL |
| CKT | CIRCUIT | GR | GRADE | PA | PROCESS AIR | TP | TELEPHONE POLE |
| CL | CENTER LINE | GRTG | GRATING | PC | POINT OF CURVE | TS | THICKENED SLUDGE |
| CL2 | CHLORINE GAS | GS | GALVANIZED STEEL | PCM | PERMANENT CONTROL MONUMENT PLAIN | TV | TELEVISION |
| CLF | CHAIN LINK FENCE | GSP | GALVANIZED STEEL PIPE | PE | END | TYP | TYPICAL |
| CLR | CLEAR OR CLEARANCE | GSR | GROUND STORAGE RESERVOIR | PG | PRESSURE GAGE | T&B | TOP AND BOTTOM |
| CLVT | CULVERT | GST | GROUND STORAGE TANK | PI | POINT OF INTERSECTION | U | UNDERDRAIN |
| CMP | CORRUGATED METAL PIPE | GT | GROUT | PL | PLATE | UD | UNDERGROUND |
| CMPA | CORRUGATED METAL PIPE ARCH | GV | GATE VALVE | PL | PROPERTY LINE | ULT | ULTIMATE |
| CMU | CONCRETE MASONRY UNIT | H | HOSE BIBB | P/L | PINCH VALVE | UN | UNION |
| CND | CONDUIT | HD | HEAVY-DUTY | POB | POINT OF BEGINNING | UON | UNLESS OTHERWISE NOTED |
| CNR | CORNER | HDPE | HIGH-DENSITY POLYETHYLENE | POJ | PUSH-ON JOINT | UGE | UNDERGROUND ELECTRIC |
| CO | CLEAN OUT | HDR | HYDRAULIC | POL | POLYMER | UTC | UNDERGROUND TELEPHONE CABLE |
| CO2 | CARBON DIOXIDE | HGR | HYDROFLUOSILICIC ACID | PP | POWER POLE | UTIL | UTILITY |
| COAG | COAGULANT | HGT | HANGER | PPD | POUNDS PER DAY | V | VOLT(S) |
| COL | COLUMN | HNDRL | HAND RAIL | PPM | POUNDS PER MILLION | V | VACUUM |
| COM | COMMON | HOA | HAND-OFF-AUTO | PREFAB | PREFABRICATED | VAC | VACUUM |
| COMC | CONCRETE | HORIZ | HORIZONTAL | PRESS | PRESSURE | VAR | VARIES |
| CONC | CONCRETE | HP | HORSEPOWER | PRV | PRESSURE REDUCING VALVE | VC | VERTICAL CURVE |
| CONSTR | CONSTRUCTION | HPA | HIGH PRESSURE AIR | PSF | POUNDS PER SQUARE FOOT | VCP | VITRIFIED CLAY PIPE |
| CONSTR(ION) | | HR | HOUR | PSI | POUNDS PER SQUARE INCH | VEL | VELOCITY |
| CONT | CONTINUOUS | HVA | HEATING, VENTILATION, AND AIR CONDITIONING | PSIG | POUNDS PER SQUARE INCH ABSOLUTE | VERT | VERTICAL |
| CONTR | CONTRACT(OR) | HVL | HIGH WATER LEVEL | PT | PRESSURE TANGENCY | VFD | VARIABLE FREQUENCY DRIVE |
| COORD | COORDINATE | HZY | HERTZ | PV | PLUG VALVE | VOL | VOLUME |
| CO | COMPANY | I | INCHES | PVC | POLYVINYL CHLORIDE | W | WATT, WEST |
| CP | CONCRETE PIPE | ID | INSIDE DIAMETER | PVMT | POTABLE WATER | W | WASTE ACTIVATED SLUDGE WALL |
| CPA | CONCRETE PIPE ARCH | IN | INCHES | PW | POTABLE WATER | WAS | WASTE ACTIVATED SLUDGE WALL |
| CPED | COMMUNICATION PEDESTAL | INF | INFILTRANT | PWR | PWR POWER | WCO | WIDE FLANGE |
| CPED | COMMUNICATION PEDESTAL | INT | INTERSECTION | Q | QUANTITY | WF | WALL HYDRANT |
| CPGL | COUPLING | INTR | INTERIOR | R | RADIUS | WL | WATER LINE |
| CPVC | CHLORINATED POLYVINYL CHLORIDE | INV | INVERT | RAS | RETURN ACTIVATED SLUDGE | WM | WATER MAIN |
| CR | CENTRIC REDUCER | IP | IRON PIPE | RC | REINFORCED CONCRETE | WP | WATER PROOF(ING), WORKING POINT |
| CS | CHLORINE SOLUTION | IPS | INTERNATIONAL PIPE STANDARD | RCB | REINFORCED CONCRETE BOX | WPR | WORKING PRESSURE |
| CSG | CASING | IR | INTERNAL RECYCLE | RCP | REINFORCED CONCRETE PIPE | WSP | WATER SURFACE |
| CTV | CABLE TELEVISION | IW | IRRIGATION WATER | RCPA | REINFORCED CONCRETE PIPE ARCH | WT | WEIGHT |
| CY | CUBIC YARD | J | JUNCTION BOX | RD | REDUCER | WTP | WATER TREATMENT PLANT |
| CYL | CYLINDER | JT | JOINT | RDCR | REDUCER REBAR REINFORCING STEEL REF | WW | WASH WATER |
| C&G | CURB AND GUTTER | K | KIP (1,000 LB) | REF | REFERENCE | WWF | WELDED WIRE FABRIC |
| C/C | CENTER TO CENTER | K | KICK PLATE | REINF | REINFORCE(D)(ING)(MENT) | WWW | WELDED WIRE MESH |
| D | DATUM | KPL | KICK PLATE | REINQ | REMOVED(ABLE) | WWTP | WASTEWATER TREATMENT PLANT |
| DAT | DOUBLE | KV | KILOVOLT | REQD | REQUIRED | W | WITH |
| DBL | DIRECT CURRENT | KVA | KILOVOLT-AMPERE | RF | RAISED FACE | W/O | WITHOUT |
| DC | DEMOLITION | KW | KILOWATT | RJ | RESTRAINED JOINT | X | TRANSFER |
| DEMO | DEPARTMENT | KWH | KILOWATT-HOUR | RM | ROOM | XFER | TRANSFER |
| DEPT | DESCRIPTION | L | LEFT | RPBP | REDUCED PRESSURE BACKFLOW PREVENTER | Y | YD YARD(S) |
| DESC | DETAIL | LAB | LABORATORY | | | YH | YARD HYDRANT |
| DET | DIESEL FUEL | LAM | LAMINATE OR LAMINATION | | | YR | YEAR(S) |
| DF | DUCTILE IRON | LATL | LATERAL | | | | |
| DJ | DIAMETER | LAV | LAVATORY | | | | |
| DIA | DIFFUSER | | | | | | |
| DIFF | DIMENSION | | | | | | |
| DIM | DUCTILE IRON PIPE | | | | | | |
| DIP | DISCHARGE | | | | | | |
| DISCH | DIRECTION | | | | | | |
| DIR | DROP MANHOLE | | | | | | |
| DMH | DOWN | | | | | | |
| DN | DRAIN | | | | | | |
| DR | DIAPHRAGM VALVE | | | | | | |
| DV | DRIVEWAY | | | | | | |
| DW | DRAWING | | | | | | |
| DWG | DRAIN, WASTE, AND VENT | | | | | | |
| DWV | | | | | | | |

CIVIL LEGEND

| PROPOSED ITEM | DESCRIPTION |
|---------------|---|
| | EXISTING SPOT ELEVATION |
| | LIMITS OF DISTURBANCE |
| | WATER LINE |
| | EXISTING STORM PIPE |
| | PROPOSED STORM PIPE |
| | PROPOSED MANHOLE |
| | PROPOSED CATCH BASIN |
| | PROPOSED HEADWALL |
| | EXISTING CONTOUR MINOR |
| | EXISTING CONTOUR MAJOR |
| | PROPOSED CONTOUR MINOR |
| | PROPOSED CONTOUR MAJOR |
| | EXISTING GAS LINE |
| | EXISTING UNDERGROUND ELECTRICAL LINE |
| | EXISTING UNDERGROUND COMMUNICATION LINE |
| | BENCHMARK |
| | EXISTING TREE |
| | EXISTING LIGHT POLE |
| | COMMUNICATION PEDESTAL |

HATCHING LEGEND

| | |
|--|-------------------|
| | ASPHALT PAVEMENT |
| | CONCRETE PAVEMENT |
| | RIPRAP TYPE 1 |

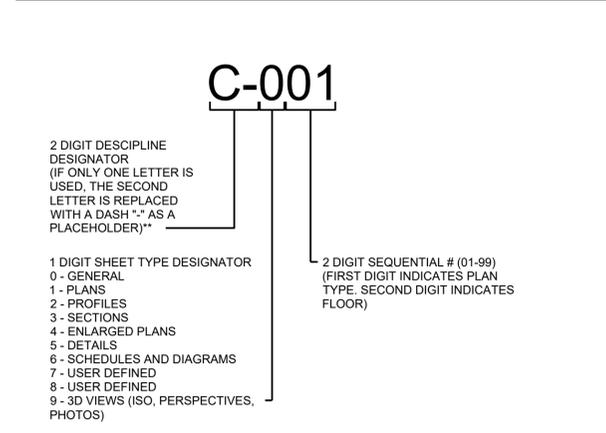
REFERENCE SYMBOLS

| | |
|--|---|
| | DENOTES SECTION LETTER IDENTIFICATION |
| | DENOTES DRAWING NO WHERE SECTION IS LOCATED |
| | SECTION REFERENCE |
| | DENOTES SECTION LETTER IDENTIFICATION |
| | DENOTES DRAWING NO WHERE SECTION IS LOCATED |
| | SECTION SCALE: |
| | SECTION TITLE |
| | DENOTES DETAIL NUMBER IDENTIFICATION |
| | DENOTES DRAWING NO WHERE DETAIL IS LOCATED |
| | DETAIL REFERENCE |
| | DENOTES DETAIL NUMBER IDENTIFICATION |
| | DENOTES DRAWING NO WHERE DETAIL IS LOCATED |
| | DETAIL SCALE: |
| | DETAIL TITLE |

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

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Georgia 30092
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EOR/AOR SEAL

GSWCC# 95439
EXP: 9/10/2027
CLIENT INFORMATION

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

PROJECT NAME
140 BRANDON MILL CIRCLE CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE
DATE
DESCRIPTION
MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE
GENERAL CIVIL NOTES, ABBREVIATIONS, AND LEGEND

SHEET NUMBER
C-001
SHEET 2 OF 24
ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\F\251250230\07 CAD-BIM\07 02 CAD\CIVIL\C-001 PLOTTED BY: URUETA, JUAN DATE: 21/10/2026

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 AND DEVELOPMENT REGULATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED. 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. 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.
- 5. 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.
- 6. THE COUNTY PROJECT MANAGER 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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) ONE ELECTRONIC PDF RECORD AS-BUILT DRAWING IMMEDIATELY UPON COMPLETION PRIOR TO FINAL ACCEPTANCE.
- 12. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM SURVEY PROVIDED BY: GEOSURVEY, LTD., DATED: 7-31-2024.
- 13. 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.
- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
- 15. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
- 16. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, 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.
- 17. 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 UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS
- 6. 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.
- 7. 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 "W" 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. 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.
- 5. PERMITEE SHALL SUBMIT A SIGNED NOTICE OF TERMINATION (NOT) FORM TO THE GEORGIA DIVISION OF WATER AFTER THE SITE HAS BEEN FINALLY STABILIZED.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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, WALLS, 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. ALL REQUIRED TRAFFIC SIGNAGE MUST MEET MUTCD STANDARDS.
- 2. ALL REQUIRED TRAFFIC STRIPING MUST MEET MUTCD AND GDOT PLAN SPECIFICATIONS AND MUST BE THERMO-PLASTIC.
- 3. ALL STRIPING LAYOUTS MUST BE APPROVED BY THE COUNTY TRANSPORTATION ENGINEER PRIOR TO FINAL APPLICATION.



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GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

140 BRANDON MILL CIRCLE CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE

GENERAL CIVIL NOTES, ABBREVIATIONS, AND LEGEND

SHEET NUMBER

C-002

SHEET 3 OF 24

ORIGINAL SHEET SIZE: 22" X 34"

AERIAL IMAGE

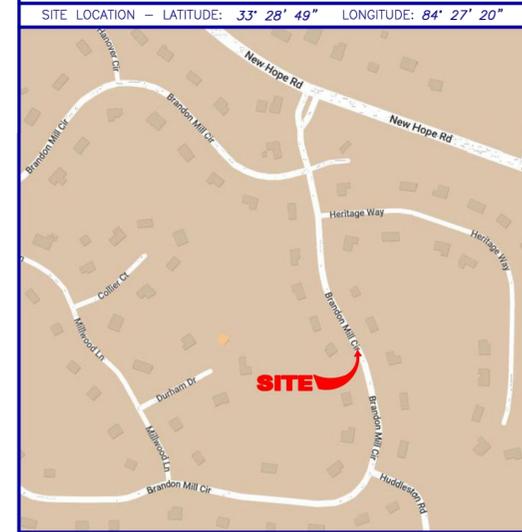


LIMITS OF TOPOGRAPHIC SURVEY

SITE PHOTOGRAPHS



VICINITY MAP



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 OF STATUTES OF LIMITATION UNLESS SPECIFICALLY NOTED OTHERWISE.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS 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 13113C0102E, AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

PLEASE NOTE: TREES 6-INCH DBH (DIAMETER AT BREAST HEIGHT) AND LARGER WERE LOCATED FOR THIS SURVEY.

THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS 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. ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

PLEASE NOTE: PROPERTY LINE INFORMATION IS SHOWN AS APPROXIMATE BASED ON SURVEY REFERENCES SHOWN HEREON. NO BOUNDARY SURVEY WAS PERFORMED BY GEOSURVEY, LTD.

SURVEY REFERENCES
1. UNIT ONE BRANDON MILL, PREPARED BY STEED & BOYD LAND SURVEYORS, DATED AUGUST 10, 1983, RECORDED IN PLAT BOOK 14, PAGE 125.
2. REVISED FINAL PLAT UNIT ONE BRANDON MILL, PREPARED BY STEED & BOYD LAND SURVEYORS, DATED SEPTEMBER 10, 1983, RECORDED IN PLAT BOOK 20, PAGE 189.

IF YOU DIG



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

UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY: GROUNDHAWK 355 ONETA STREET - SUITE D200 ATHENS, GEORGIA 30601 (762) 728-9155

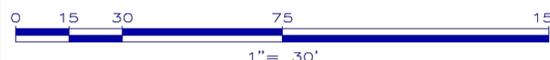
GROUNDHAWK UTILIZED SEVERAL TECHNIQUES INCLUDING, BUT NOT LIMITED TO, ELECTROMAGNETIC, MAGNETIC LOCATION FOR FERROUS METALS, ACOUSTIC AND PASSIVE FREQUENCIES TO DESIGNATE AND MARK BURIED UTILITIES ON THE SURFACE WITH PAINT AND FLAGS COVERING THE ENTIRE AREA OF THE PROJECT.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE 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.

CLOSURE STATEMENT

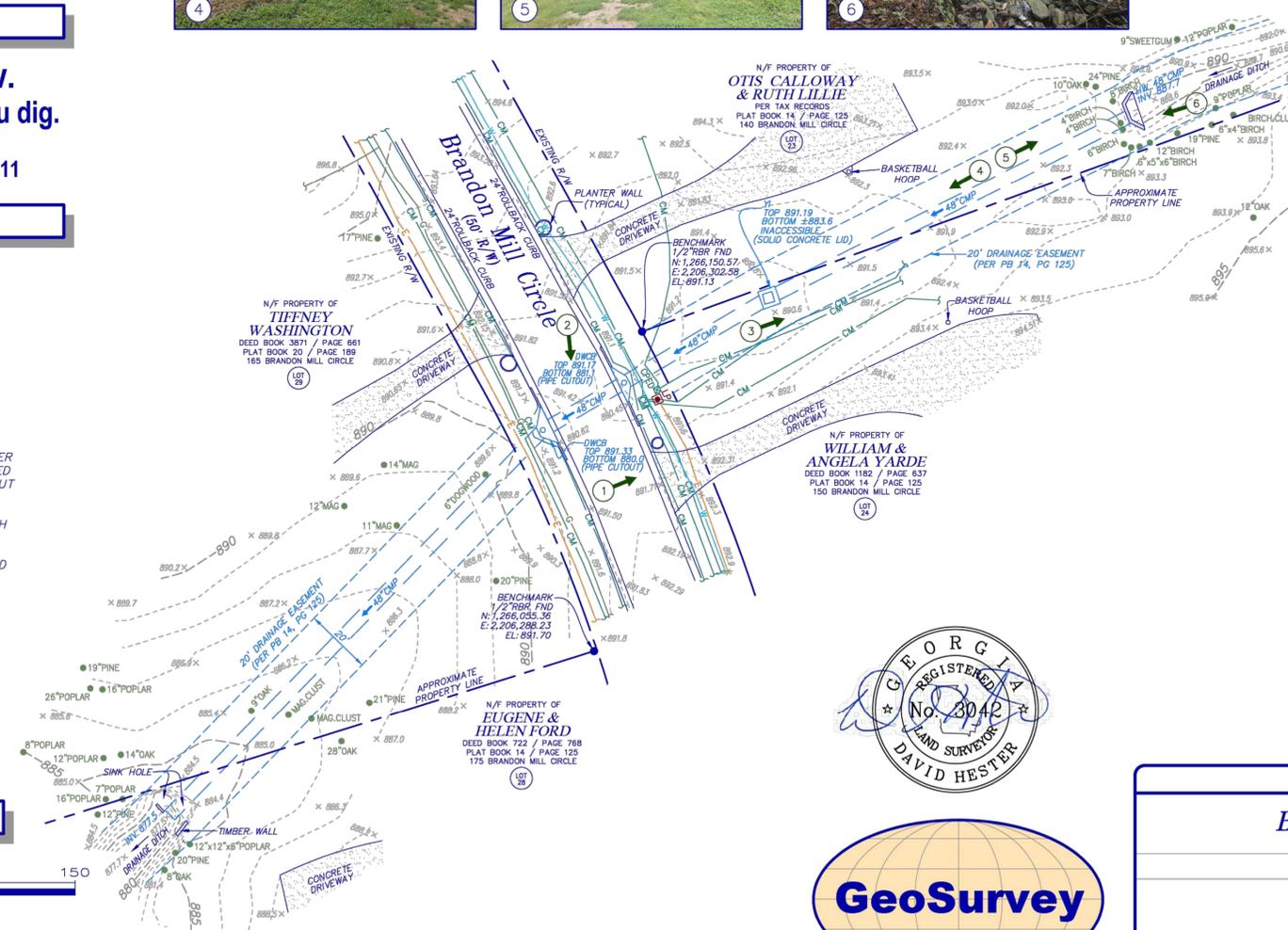
THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 22,584, AND WAS NOT ADJUSTED. A TRIMBLE "S" SERIES TOTAL STATION AND TRIMBLE TSC SERIES DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

GRAPHIC SCALE



LEGEND

Table with two columns: STANDARD ABBREVIATIONS and STANDARD SYMBOLS. Lists various symbols for utilities, structures, and markers.



Professional Land Surveying Services
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 #LSF-000621

TOPOGRAPHIC SURVEY OF Brandon Mill Circle Storm System FOR FAYETTE COUNTY. Includes project details, scale, date, and revision table.

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

140 BRANDON MILL CIRCLE
CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
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SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT #: 1250230

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NUMBER

V-001

SHEET 4 OF 24

ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\FY25\1250230\07-CAD-BIM\07-02-CAD\CIVIL\1V-001 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

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.
- 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 #12 FROM SHEET C-002. EXISTING CONDITIONS SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE CONFIRMED BY CONTRACTOR PRIOR TO WORK.
- THE LIMITS OF DISTURBANCE MUST BE CLEARED IN ENTIRETY.
- FAYETTE COUNTY TO COORDINATE AND OBTAIN REQUIRED EASEMENTS.

DEMOLITION NOTES:

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.

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.

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.

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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FAYETTE COUNTY

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

PROJECT NAME

**140 BRANDON MILL CIRCLE
CULVERT
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO

DRAWN BY: JCU

CHECKED BY: DMM

SUBMITTED BY: DMM

DATE: JUNE 12, 2025

PROJECT # 1250230

SHEET TITLE

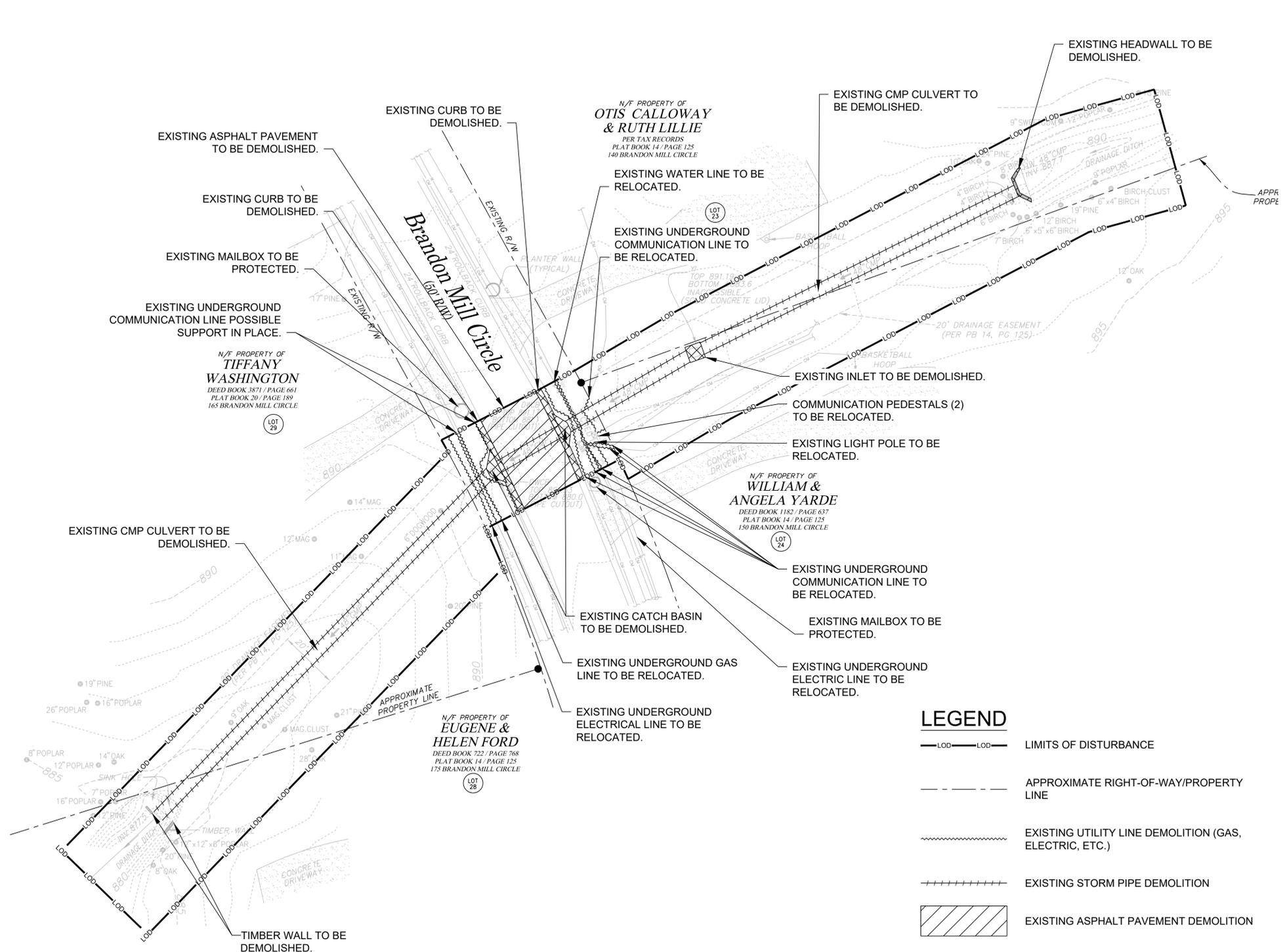
**DEMOLITION
PLAN**

SHEET NUMBER

CD101

SHEET 5 OF 24

ORIGINAL SHEET SIZE: 22" X 34"



LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- - - - - APPROXIMATE RIGHT-OF-WAY/PROPERTY LINE
- ~~~~~ EXISTING UTILITY LINE DEMOLITION (GAS, ELECTRIC, ETC.)
- +++++ EXISTING STORM PIPE DEMOLITION
- ▨ EXISTING ASPHALT PAVEMENT DEMOLITION
- ▩ EXISTING CONCRETE STRUCTURE DEMOLITION (HEADWALL, CURB, CATCH BASIN, ETC.)



A1 DEMOLITION PLAN
SCALE: 1" = 20'

FILE PATH: X:\FY25\1250230\07 CAD-BIM\07 02 CAD\CIVIL\CD101 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

GENERAL SHEET NOTES

1. REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
2. 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.
3. 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.
4. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (ALL AS-BUILT DRAWINGS MUST BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR).
5. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
6. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, FENCE, OR DRIVEWAYS DURING CONSTRUCTION.
7. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION, AS WELL AS REPLACEMENT AND RELOCATION OF MAILBOXES.

GRADING NOTES:

1. FOR EXISTING ROAD GRADE AND DRAINAGE PATTERN, REFER TO DETAIL B1/C-504.
2. MAXIMUM SLOPES ALLOWED WITHIN FAYETTE COUNTY RIGHT-OF-WAY SHALL BE 3:1. PROVIDE GENTLER SLOPES WHERE POSSIBLE.

LEGEND

- LIMITS OF DISTURBANCE
- APPROXIMATE RIGHT-OF-WAY/PROPERTY LINE
- ASPHALT PAVEMENT
- RIPRAP TYPE 1



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GSWCC# 95439,
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

**140 BRANDON MILL CIRCLE
CULVERT
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE

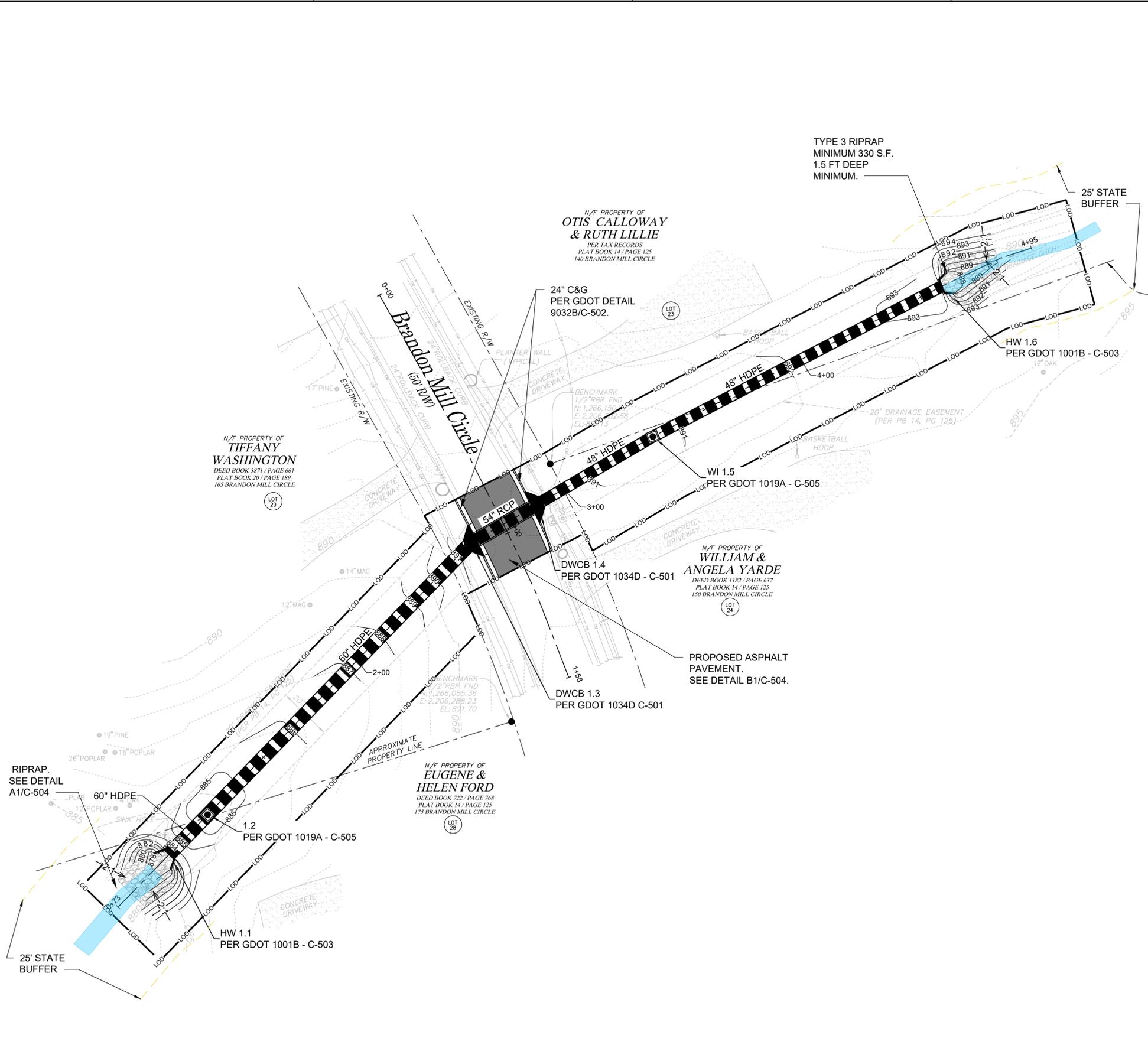
**SITE AND
GRADING PLAN**

SHEET NUMBER

CG101

SHEET 6 OF 24

ORIGINAL SHEET SIZE:
22" X 34"



TYPE 3 RIPRAP
MINIMUM 330 S.F.
1.5 FT DEEP
MINIMUM.

N/F PROPERTY OF
**OTIS CALLOWAY
& RUTH LILLIE**
PER TAX RECORDS
PLAT BOOK 14 / PAGE 125
140 BRANDON MILL CIRCLE

N/F PROPERTY OF
**TIFFANY
WASHINGTON**
DEED BOOK 3871 / PAGE 661
PLAT BOOK 20 / PAGE 189
165 BRANDON MILL CIRCLE

N/F PROPERTY OF
**WILLIAM &
ANGELA YARDE**
DEED BOOK 1182 / PAGE 637
PLAT BOOK 14 / PAGE 125
150 BRANDON MILL CIRCLE

N/F PROPERTY OF
**EUGENE &
HELEN FORD**
DEED BOOK 722 / PAGE 768
PLAT BOOK 14 / PAGE 125
175 BRANDON MILL CIRCLE

PROPOSED ASPHALT
PAVEMENT.
SEE DETAIL B1/C-504.

(A1) SITE AND GRADING PLAN
SCALE: 1" = 20'



FILE PATH: X:\FY25\1250230\07 CAD-BIM\07.02 CAD\CIVIL\CG101 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

| FLOW SUMMARY TABLE | | | | |
|--------------------|------------|---------------|-------------|-----------------------|
| STORM FREQUENCY | FLOW (CFS) | HGL DOWN (FT) | HGL UP (FT) | OUTLET VELOCITY (FPS) |
| 100-YEAR | 145.71 | 880.87 | 891.06 | 10.63 |

DRAINAGE AREA = 46.4 ACRES
 AVERAGE STREAM SLOPE = 5%



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GSWCC# 95439
 EXP. 9/10/2027

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

PROJECT NAME
140 BRANDON MILL CIRCLE CULVERT REPLACEMENT
 FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
 DRAWN BY: JCU
 CHECKED BY: DMM
 SUBMITTED BY: DMM
 DATE: JUNE 12, 2025
 PROJECT # 1250230

SHEET TITLE

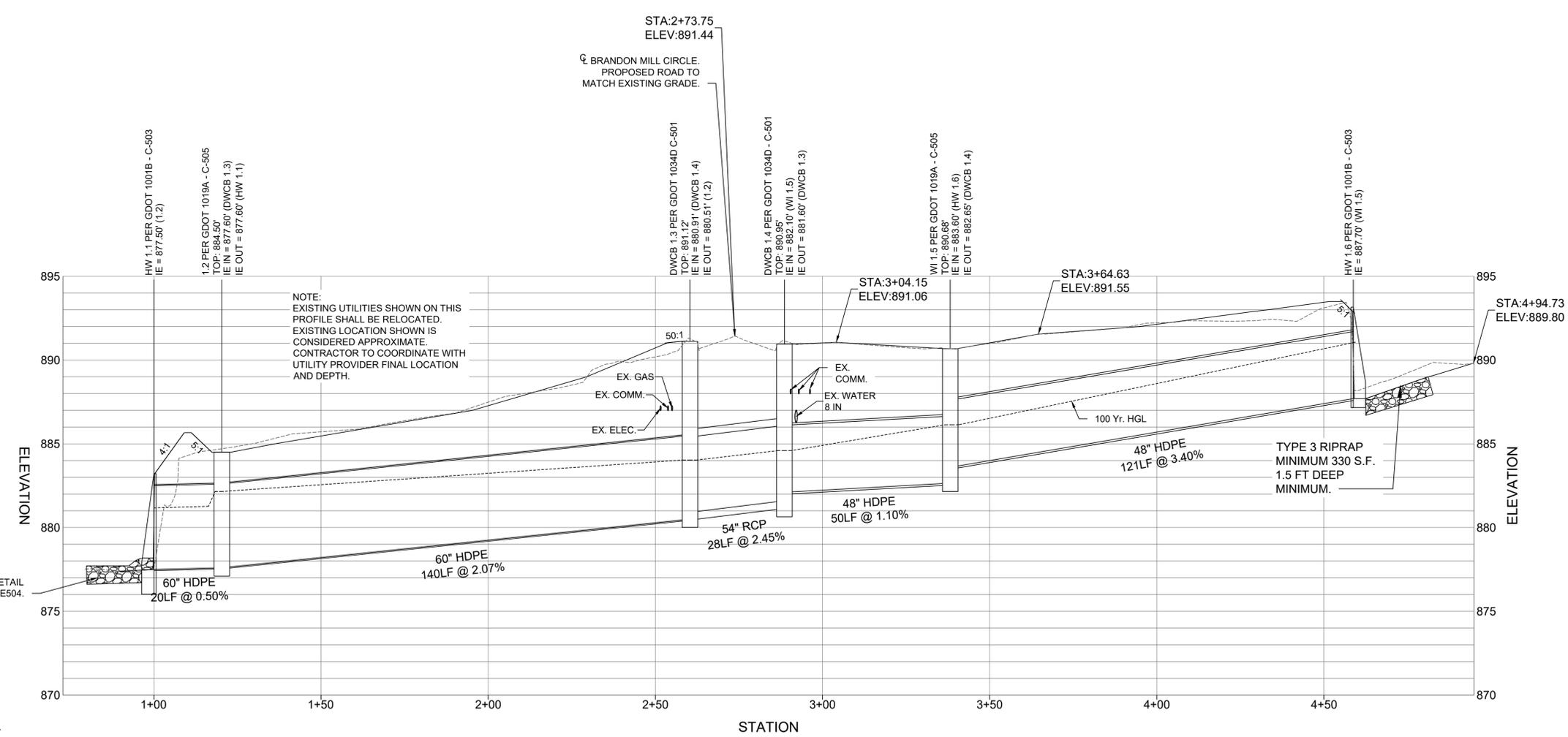
STORM PROFILE

SHEET NUMBER

CG201

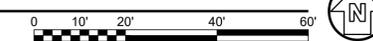
SHEET 7 OF 24

ORIGINAL SHEET SIZE:
 22" X 34"



- RIPRAP NOTE:**
- GEOTEXTILE SHALL BE USED AS A SEPARATOR BETWEEN THE GRADED STONE, THE SOIL BASE, AND ABUTMENTS.
 - GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288-06 SECTION 8, GEOTEXTILE PROPERTY REQUIREMENTS.
 - GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS.

A1 STORM PROFILE
 SCALE: 1" = 20'



GENERAL SHEET NOTES

- 1. REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
- 2. 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.

SHEET LEGEND

| | |
|--|--------------------------------|
| | PARCEL 1 TEMPORARY EASEMENT |
| | PARCEL 1 PERMANENT EASEMENT |
| | PARCEL 2 TEMPORARY EASEMENT |
| | PARCEL 2 PERMANENT EASEMENT |
| | PARCEL 2 PERMANENT EASEMENT |
| | PARCEL 3 TEMPORARY EASEMENT |
| | PARCEL 3 PERMANENT EASEMENT |
| | PARCEL 4 PERMANENT EASEMENT |

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EOR/AOR SEAL

 GSWCC# 95439
 EXP. 9/10/2027
 CLIENT INFORMATION

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

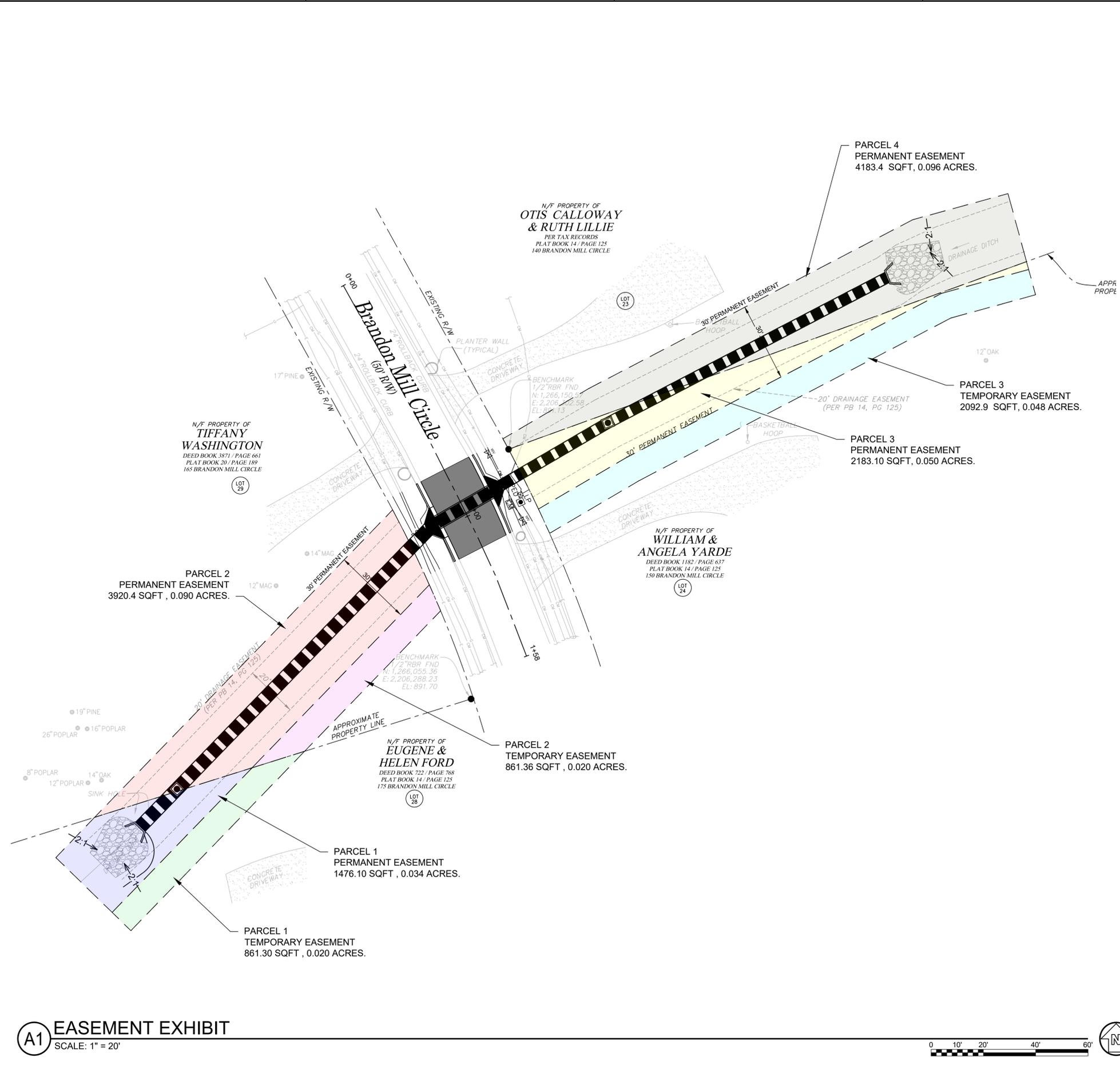
PROJECT NAME
**140 BRANDON MILL CIRCLE
 CULVERT
 REPLACEMENT**
 FAYETTE COUNTY, GA

| DRAWING ISSUE | DATE | DESCRIPTION | MARK |
|---------------|------|-------------|------|
| | | | |

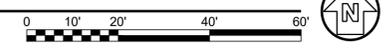
DESIGNED BY: CAO
 DRAWN BY: JCU
 CHECKED BY: DMM
 SUBMITTED BY: DMM
 DATE: JUNE 12, 2025
 PROJECT # 1250230

SHEET TITLE
**EASEMENT
 EXHIBIT**

SHEET NUMBER
CG301
 SHEET 8 OF 24
 ORIGINAL SHEET SIZE:
 22" X 34"



A1 EASEMENT EXHIBIT
 SCALE: 1" = 20'



FILE PATH: X:\FY25\1250230\07 CAD\BIM\07.02 CAD\CIVIL\CG101 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

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D
C

RAISED EDGE WITH CONCRETE GUTTER

CONCRETE CURB & GUTTER

CONCRETE MEDIAN (Integral)

CONCRETE DOWELED INTEGRAL CURBS

CONCRETE INTEGRAL CURB

CONCRETE HEADER CURBS

DETAILS OF RECESSED CURB FOR DRIVEWAYS

CURB FACE DESIGN

SECTIONAL VIEW SECTION A-A

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS
MAR. 2003
NUMBER 9032B

TABLE NO. 1 ROUND PIPE - CONCRETE OR CORRUGATED STEEL - CORRUGATED ALUMINUM

MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

| PIPE DIAMETER (INCHES) | HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE | MINIMUM COVER (INCHES) | PIPE TYPE | MINIMUM COVER (INCHES) |
|------------------------|--|------------------------|-----------|------------------------|
| 12 | 1-10 | 12 | CONCRETE | 12 |
| 12 | 10-15 | 12 | ALUM. | 12 |
| 15 | 1-10 | 15 | CONCRETE | 15 |
| 15 | 10-15 | 15 | ALUM. | 15 |
| 18 | 1-10 | 18 | CONCRETE | 18 |
| 18 | 10-15 | 18 | ALUM. | 18 |
| 24 | 1-10 | 24 | CONCRETE | 24 |
| 24 | 10-15 | 24 | ALUM. | 24 |
| 30 | 1-10 | 30 | CONCRETE | 30 |
| 30 | 10-15 | 30 | ALUM. | 30 |
| 36 | 1-10 | 36 | CONCRETE | 36 |
| 36 | 10-15 | 36 | ALUM. | 36 |
| 42 | 1-10 | 42 | CONCRETE | 42 |
| 42 | 10-15 | 42 | ALUM. | 42 |
| 48 | 1-10 | 48 | CONCRETE | 48 |
| 48 | 10-15 | 48 | ALUM. | 48 |
| 54 | 1-10 | 54 | CONCRETE | 54 |
| 54 | 10-15 | 54 | ALUM. | 54 |
| 60 | 1-10 | 60 | CONCRETE | 60 |
| 60 | 10-15 | 60 | ALUM. | 60 |
| 66 | 1-10 | 66 | CONCRETE | 66 |
| 66 | 10-15 | 66 | ALUM. | 66 |
| 72 | 1-10 | 72 | CONCRETE | 72 |
| 72 | 10-15 | 72 | ALUM. | 72 |
| 78 | 1-10 | 78 | CONCRETE | 78 |
| 78 | 10-15 | 78 | ALUM. | 78 |
| 84 | 1-10 | 84 | CONCRETE | 84 |
| 84 | 10-15 | 84 | ALUM. | 84 |
| 90 | 1-10 | 90 | CONCRETE | 90 |
| 90 | 10-15 | 90 | ALUM. | 90 |
| 96 | 1-10 | 96 | CONCRETE | 96 |
| 96 | 10-15 | 96 | ALUM. | 96 |
| 102 | 1-10 | 102 | CONCRETE | 102 |
| 102 | 10-15 | 102 | ALUM. | 102 |
| 108 | 1-10 | 108 | CONCRETE | 108 |
| 108 | 10-15 | 108 | ALUM. | 108 |
| 114 | 1-10 | 114 | CONCRETE | 114 |
| 114 | 10-15 | 114 | ALUM. | 114 |
| 120 | 1-10 | 120 | CONCRETE | 120 |
| 120 | 10-15 | 120 | ALUM. | 120 |

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
CONCRETE & METAL PIPE CULVERTS
OCTOBER 20, 1998
NUMBER 1030D

B
A

CONCRETE TO THERMOPLASTIC SIDE DRAIN OR CROSS DRAIN CONNECTION ALTERNATES

THERMOPLASTIC PIPE TRENCH INSTALLATIONS

METAL TO THERMOPLASTIC SIDE DRAIN CONNECTION ALTERNATES

BACKFILL REQUIREMENT TABLES

ALLOWABLE PIPE SIZES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
THERMOPLASTIC PIPE
SEPTEMBER 2006
NUMBER 1030P

MULTIPLE PIPE CULVERT SPACING

TRENCH CONSTRUCTION FOR SIDE DRAIN

TRENCH CONSTRUCTION FOR STORM DRAIN

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
CONCRETE & METAL PIPE CULVERTS
OCTOBER 20, 1998
NUMBER 1030D

POND

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EOR/AOR SEAL

GEORGIA
REGISTERED PROFESSIONAL ENGINEER
CODY ALAN OWENBY
02/10/2026
GSWCCT 95439
EXP. 9/10/2027
CLIENT INFORMATION

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

PROJECT NAME
140 BRANDON MILL CIRCLE CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

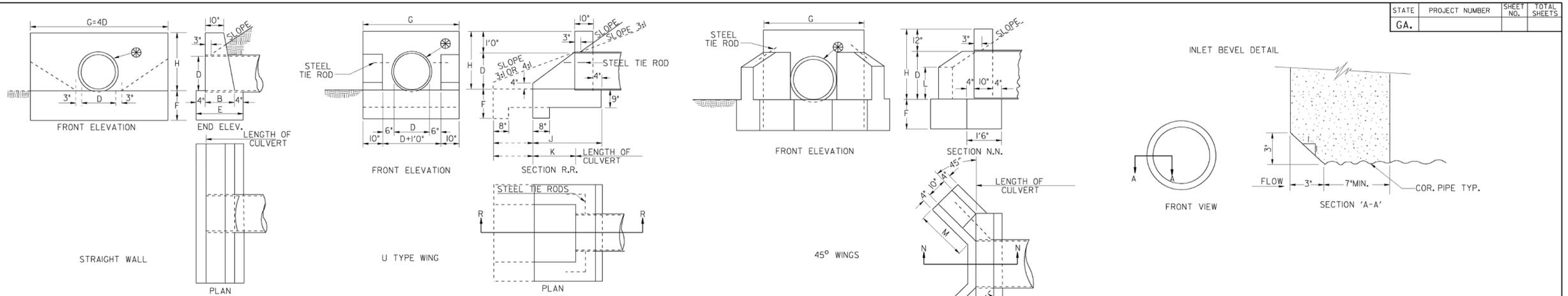
DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
C-502

SHEET 10 OF 24
ORIGINAL SHEET SIZE: 22" X 34"

9/9/2005 10:51:31 AM \\GDOT-DSW1\GDOT\PLT\QC\Fig_11ff_out\pl_qc_00rnsf1_M:\ANGEL_DESIGN_SERVICES\CORRECTED ENGLISH-METRIC STANDARDS\1001B.plt 00-006

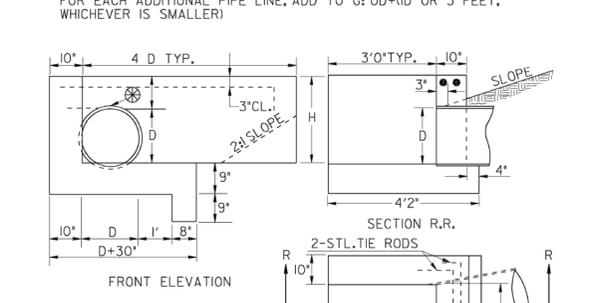


| DIMENSIONS | | | | | | QUANTITIES ONE STRAIGHT ENDWALL | | | | CONC. IN WALL & FOOTING PER LINE OF PIPE TIME |
|------------|--------------|-------|------|---------|------|---------------------------------|-------|----------------|-----------------|---|
| D | AREA SQ. FT. | WALL | | FOOTING | | CLASS 'B' CONCRETE | | STEEL TIE RODS | | |
| | | G | H | E | F | CUBIC FEET WALL | FOOT | | CU. FT. CU. YD. | |
| 12" | 0.8 | 4'0" | 2'0" | 1'2" | 1'0" | 7.2 | 7.3 | 14.5 | 0.54 | 0.25 |
| 15" | 1.2 | 5'0" | 2'3" | 1'2" | 1'0" | 9.9 | 10.7 | 20.6 | 0.76 | 0.36 |
| 18" | 1.8 | 6'0" | 2'6" | 1'2" | 1'1" | 13.6 | 14.4 | 28.0 | 1.04 | 0.48 |
| 24" | 3.1 | 8'0" | 3'0" | 1'4" | 2'0" | 22.3 | 21.3 | 43.6 | 1.62 | 0.74 |
| 30" | 4.9 | 10'0" | 3'6" | 1'6" | 2'2" | 34.7 | 32.5 | 67.2 | 2.49 | 1.13 |
| 36" | 7.1 | 12'0" | 4'0" | 1'8" | 2'4" | 50.5 | 46.7 | 97.2 | 3.60 | 1.62 |
| 42" | 9.6 | 14'0" | 4'6" | 1'10" | 2'6" | 70.3 | 70.0 | 140.3 | 5.20 | 2.13 |
| 48" | 12.6 | 16'0" | 5'0" | 2'1" | 2'9" | 96.9 | 88.0 | 184.9 | 6.85 | 2.58 |
| 54" | 16.0 | 18'0" | 5'6" | 2'4" | 3'0" | 129.4 | 108.0 | 237.4 | 8.79 | 3.07 |
| 60" | 19.6 | 20'0" | 6'0" | 2'6" | 3'2" | 164.6 | 126.7 | 291.3 | 10.79 | 3.53 |

FOR EACH ADDITIONAL PIPE LINE, ADD TO G: D+10" OR 3 FEET, WHICHEVER IS SMALLER)

| DIMENSIONS | | | | | | QUANTITIES ONE "U" ENDWALL | | | | STEEL TIE RODS | |
|------------|--------------|-------|------|---------|------|----------------------------|------|----------------|-----------------|----------------|--------------------|
| D | AREA SQ. FT. | WALL | | FOOTING | | CLASS 'B' CONCRETE | | STEEL TIE RODS | | | |
| | | G | H | K | F | CUBIC FEET WALL | FOOT | | CU. FT. CU. YD. | | |
| 12" | 0.8 | 3'8" | 2'0" | 1'0" | 1'3" | 2'2" | 6.6 | 7.3 | 13.9 | 0.52 | NONE |
| 15" | 1.2 | 3'11" | 2'3" | 1'5" | 1'3" | 2'7" | 8.3 | 9.1 | 17.4 | 0.64 | NONE |
| 18" | 1.8 | 4'2" | 2'6" | 1'9" | 1'3" | 2'11" | 9.9 | 10.7 | 20.6 | 0.76 | NONE |
| 24" | 3.1 | 4'8" | 3'0" | 2'6" | 1'6" | 3'8" | 13.9 | 15.5 | 29.4 | 1.09 | 2-3/4" DIA. x 2'0" |
| 30" | 4.9 | 5'2" | 3'6" | 3'3" | 1'6" | 4'5" | 18.7 | 20.0 | 38.7 | 1.43 | 2-3/4" DIA. x 2'0" |
| 36" | 7.1 | 5'8" | 4'0" | 4'0" | 1'9" | 5'2" | 26.2 | 26.2 | 50.4 | 1.87 | 2-3/4" DIA. x 2'0" |
| 42" | 9.6 | 6'2" | 4'6" | 4'9" | 2'0" | 5'11" | 30.3 | 33.2 | 63.5 | 2.35 | 2-3/4" DIA. x 2'6" |
| 48" | 12.6 | 6'8" | 5'0" | 5'6" | 2'0" | 6'8" | 37.3 | 39.6 | 76.9 | 2.85 | 2-3/4" DIA. x 3'0" |
| 54" | 16.0 | 7'2" | 5'6" | 6'3" | 2'0" | 7'5" | 44.2 | 45.9 | 90.1 | 3.33 | 2-3/4" DIA. x 3'6" |
| 60" | 19.6 | 7'8" | 6'0" | 7'0" | 2'0" | 8'2" | 51.1 | 49.1 | 100.2 | 3.71 | 2-3/4" DIA. x 4'0" |

| DIMENSIONS | | | | | | QUANTITIES ONE ENDWALL WITH 45° WING WALLS | | | | STEEL TIE RODS | |
|------------|--------------|------|-------|---------|----------|--|-----------------|----------------|-------|----------------|--------------------|
| D | AREA SQ. FT. | WALL | | FOOTING | | CLASS 'B' CONCRETE | | STEEL TIE RODS | | | |
| | | H | G | L | M | F | CUBIC FEET WALL | | FOOT | | CU. FT. CU. YD. |
| 18" | 1.8 | 2'6" | 3'10" | 1'2" | 1'7" | 1'3" | 9.3 | 10.7 | 20.0 | 0.74 | NONE |
| 24" | 3.1 | 3'0" | 4'4" | 1'5" | 2'1" | 1'4" | 13.1 | 14.4 | 27.5 | 1.02 | 2-3/4" DIA. x 2'0" |
| 30" | 4.9 | 3'6" | 4'10" | 1'9" | 2'5" | 1'6" | 17.4 | 18.8 | 36.7 | 1.34 | 2-3/4" DIA. x 2'0" |
| 36" | 7.1 | 4'0" | 5'4" | 2'0" | 2'11" | 1'8" | 22.6 | 24.6 | 47.2 | 1.75 | 2-3/4" DIA. x 3'0" |
| 42" | 9.6 | 4'6" | 5'10" | 2'3" | 3'6" | 2'0" | 29.1 | 34.6 | 63.7 | 2.36 | 2-3/4" DIA. x 3'0" |
| 48" | 12.6 | 5'0" | 6'4" | 2'6" | 4'0" | 2'0" | 35.9 | 39.1 | 75.0 | 2.78 | 2-3/4" DIA. x 3'0" |
| 54" | 16.0 | 5'6" | 6'10" | 2'9" | 4'6'1/4" | 2'0" | 42.9 | 46.6 | 89.5 | 3.31 | 2-3/4" DIA. x 3'0" |
| 60" | 19.6 | 6'0" | 7'4" | 3'0" | 5'0'1/2" | 2'0" | 51.8 | 51.1 | 102.9 | 3.81 | 2-3/4" DIA. x 3'0" |



NOTE: THE 3'-0" DIMENSION IS BASED ON DITCH SECTION 1' DEEP. VARY ACCORDING TO DITCH SECTION SO AS TO KEY 1'0" INTO BACK SLOPE OF DITCH.

CONCRETE ENDWALLS WITH "L" TYPE WINGS

NOTE: THESE QUANTITIES WILL VARY ACCORDING TO DITCH SECTION AND ARE TO BE USED FOR ESTIMATING PURPOSES ONLY. PAYMENT TO BE MADE ACCORDING TO QUANTITIES MEASURED AS ACTUALLY PLACED.

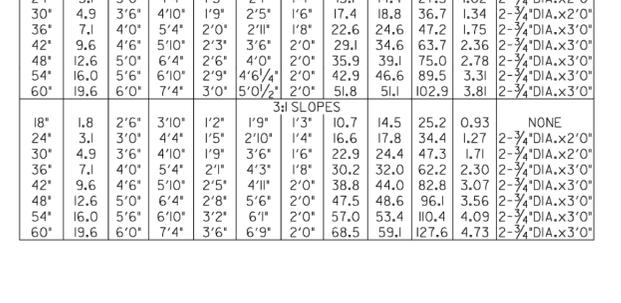
| DIMENSIONS | | | | QUANTITIES ONE "L" ENDWALL | | |
|------------|--------------|--------|---------|----------------------------|---------------|---------------------|
| D | AREA SQ. FT. | H MIN. | 4D TYP. | D+30 TYP. | CU. YD. CONC. | STEEL TIE RODS |
| 15" | 1.2 | 2'3" | 5'0" | 3'9" | 1.08 | 2-3/4" DIA. x 5'0" |
| 18" | 1.8 | 2'6" | 6'0" | 4'0" | 1.24 | 2-3/4" DIA. x 6'0" |
| 24" | 3.1 | 3'0" | 8'0" | 4'6" | 1.59 | 2-3/4" DIA. x 8'0" |
| 30" | 4.9 | 3'6" | 10'0" | 5'0" | 2.00 | 2-3/4" DIA. x 10'0" |
| 36" | 7.1 | 4'0" | 12'0" | 5'6" | 2.46 | 2-3/4" DIA. x 12'0" |
| 42" | 9.6 | 4'6" | 14'0" | 6'0" | 2.98 | 2-3/4" DIA. x 14'0" |
| 48" | 12.6 | 5'0" | 16'0" | 6'6" | 3.53 | 2-3/4" DIA. x 16'0" |
| 54" | 16.0 | 5'6" | 18'0" | 7'0" | 4.13 | 2-3/4" DIA. x 18'0" |
| 60" | 19.6 | 6'0" | 20'0" | 7'6" | 4.85 | 2-3/4" DIA. x 20'0" |

3/4" FILL SLOPES

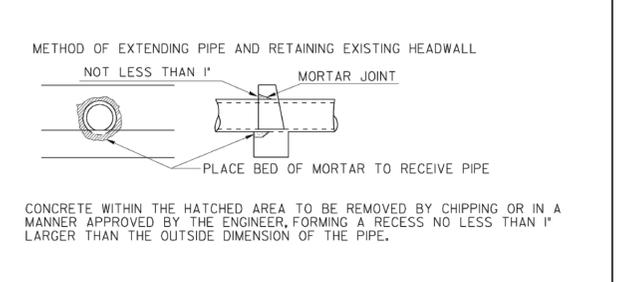
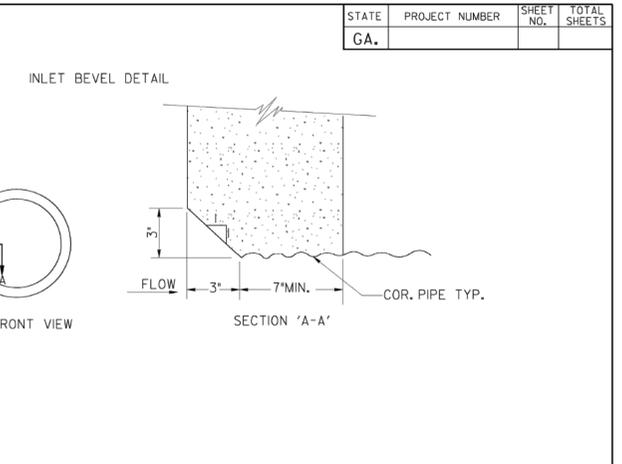
| DIMENSIONS | | | | | | QUANTITIES ONE "U" ENDWALL | | | | STEEL TIE RODS | |
|------------|--------------|-------|------|---------|------|----------------------------|------|----------------|-----------------|----------------|--------------------|
| D | AREA SQ. FT. | WALL | | FOOTING | | CLASS 'B' CONCRETE | | STEEL TIE RODS | | | |
| | | G | H | K | F | CUBIC FEET WALL | FOOT | | CU. FT. CU. YD. | | |
| 12" | 0.8 | 3'8" | 2'0" | 1'0" | 1'3" | 2'2" | 6.6 | 7.3 | 13.9 | 0.52 | NONE |
| 15" | 1.2 | 3'11" | 2'3" | 1'5" | 1'3" | 2'7" | 8.3 | 9.1 | 17.4 | 0.64 | NONE |
| 18" | 1.8 | 4'2" | 2'6" | 1'9" | 1'3" | 2'11" | 9.9 | 10.7 | 20.6 | 0.76 | NONE |
| 24" | 3.1 | 4'8" | 3'0" | 2'6" | 1'6" | 3'8" | 13.9 | 15.5 | 29.4 | 1.09 | 2-3/4" DIA. x 2'0" |
| 30" | 4.9 | 5'2" | 3'6" | 3'3" | 1'6" | 4'5" | 18.7 | 20.0 | 38.7 | 1.43 | 2-3/4" DIA. x 2'0" |
| 36" | 7.1 | 5'8" | 4'0" | 4'0" | 1'9" | 5'2" | 26.2 | 26.2 | 50.4 | 1.87 | 2-3/4" DIA. x 2'0" |
| 42" | 9.6 | 6'2" | 4'6" | 4'9" | 2'0" | 5'11" | 30.3 | 33.2 | 63.5 | 2.35 | 2-3/4" DIA. x 2'6" |
| 48" | 12.6 | 6'8" | 5'0" | 5'6" | 2'0" | 6'8" | 37.3 | 39.6 | 76.9 | 2.85 | 2-3/4" DIA. x 3'0" |
| 54" | 16.0 | 7'2" | 5'6" | 6'3" | 2'0" | 7'5" | 44.2 | 45.9 | 90.1 | 3.33 | 2-3/4" DIA. x 3'6" |
| 60" | 19.6 | 7'8" | 6'0" | 7'0" | 2'0" | 8'2" | 51.1 | 49.1 | 100.2 | 3.71 | 2-3/4" DIA. x 4'0" |

| DIMENSIONS | | | | | | QUANTITIES ONE ENDWALL WITH 45° WING WALLS | | | | STEEL TIE RODS | |
|------------|--------------|------|-------|---------|----------|--|-----------------|----------------|-------|----------------|--------------------|
| D | AREA SQ. FT. | WALL | | FOOTING | | CLASS 'B' CONCRETE | | STEEL TIE RODS | | | |
| | | H | G | L | M | F | CUBIC FEET WALL | | FOOT | | CU. FT. CU. YD. |
| 18" | 1.8 | 2'6" | 3'10" | 1'2" | 1'7" | 1'3" | 9.3 | 10.7 | 20.0 | 0.74 | NONE |
| 24" | 3.1 | 3'0" | 4'4" | 1'5" | 2'1" | 1'4" | 13.1 | 14.4 | 27.5 | 1.02 | 2-3/4" DIA. x 2'0" |
| 30" | 4.9 | 3'6" | 4'10" | 1'9" | 2'5" | 1'6" | 17.4 | 18.8 | 36.7 | 1.34 | 2-3/4" DIA. x 2'0" |
| 36" | 7.1 | 4'0" | 5'4" | 2'0" | 2'11" | 1'8" | 22.6 | 24.6 | 47.2 | 1.75 | 2-3/4" DIA. x 3'0" |
| 42" | 9.6 | 4'6" | 5'10" | 2'3" | 3'6" | 2'0" | 29.1 | 34.6 | 63.7 | 2.36 | 2-3/4" DIA. x 3'0" |
| 48" | 12.6 | 5'0" | 6'4" | 2'6" | 4'0" | 2'0" | 35.9 | 39.1 | 75.0 | 2.78 | 2-3/4" DIA. x 3'0" |
| 54" | 16.0 | 5'6" | 6'10" | 2'9" | 4'6'1/4" | 2'0" | 42.9 | 46.6 | 89.5 | 3.31 | 2-3/4" DIA. x 3'0" |
| 60" | 19.6 | 6'0" | 7'4" | 3'0" | 5'0'1/2" | 2'0" | 51.8 | 51.1 | 102.9 | 3.81 | 2-3/4" DIA. x 3'0" |

| DIMENSIONS | | | | | | QUANTITIES ONE "U" ENDWALL | | | | STEEL TIE RODS | |
|------------|--------------|-------|------|---------|------|----------------------------|------|----------------|-----------------|----------------|--------------------|
| D | AREA SQ. FT. | WALL | | FOOTING | | CLASS 'B' CONCRETE | | STEEL TIE RODS | | | |
| | | G | H | K | F | CUBIC FEET WALL | FOOT | | CU. FT. CU. YD. | | |
| 12" | 0.8 | 3'8" | 2'0" | 1'0" | 1'3" | 2'2" | 6.6 | 7.3 | 13.9 | 0.52 | NONE |
| 15" | 1.2 | 3'11" | 2'3" | 1'5" | 1'3" | 2'7" | 8.3 | 9.1 | 17.4 | 0.64 | NONE |
| 18" | 1.8 | 4'2" | 2'6" | 1'9" | 1'3" | 2'11" | 9.9 | 10.7 | 20.6 | 0.76 | NONE |
| 24" | 3.1 | 4'8" | 3'0" | 2'6" | 1'6" | 3'8" | 13.9 | 15.5 | 29.4 | 1.09 | 2-3/4" DIA. x 2'0" |
| 30" | 4.9 | 5'2" | 3'6" | 3'3" | 1'6" | 4'5" | 18.7 | 20.0 | 38.7 | 1.43 | 2-3/4" DIA. x 2'0" |
| 36" | 7.1 | 5'8" | 4'0" | 4'0" | 1'9" | 5'2" | 26.2 | 26.2 | 50.4 | 1.87 | 2-3/4" DIA. x 2'0" |
| 42" | 9.6 | 6'2" | 4'6" | 4'9" | 2'0" | 5'11" | 30.3 | 33.2 | 63.5 | 2.35 | 2-3/4" DIA. x 2'6" |
| 48" | 12.6 | 6'8" | 5'0" | 5'6" | 2'0" | 6'8" | 37.3 | 39.6 | 76.9 | 2.85 | 2-3/4" DIA. x 3'0" |
| 54" | 16.0 | 7'2" | 5'6" | 6'3" | 2'0" | 7'5" | 44.2 | 45.9 | 90.1 | 3.33 | 2-3/4" DIA. x 3'6" |
| 60" | 19.6 | 7'8" | 6'0" | 7'0" | 2'0" | 8'2" | 51.1 | 49.1 | 100.2 | 3.71 | 2-3/4" DIA. x 4'0" |



NOTE: GRADE GENERALLY TO FOLLOW SLOPE OF STREAM.



CONCRETE WITHIN THE HATCHED AREA TO BE REMOVED BY CHIPPING OR IN A MANNER APPROVED BY THE ENGINEER, FORMING A RECESS NO LESS THAN 1" LARGER THAN THE OUTSIDE DIMENSION OF THE PIPE.

NOTE TO DESIGNER

THIS STANDARD IS LIMITED FOR USE ONLY AT SPECIAL CONDITIONS, OTHERWISE, SEE CURRENT STANDARDS 1120 & 1125.

HEADWALLS ARE NOT TO BE PLACED INSIDE THE CLEAR ZONE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PIPE CULVERT
CONCRETE HEADWALL

NO SCALE
REV. & REDR. AUG, 1999

| | | |
|----------|---------------------------------------|--------|
| DESIGNED | (SUBMITTED) | NUMBER |
| TRACED | STATE ROAD DEPARTMENT DESIGN ENGINEER | 1001-B |
| CHECKED | (APPROVED) | |

9/9/2005 10:51:31 AM \\GDOT-DSW1\GDOT\PLT\QC\Fig_11ff_out\pl_qc_00rnsf1_M:\ANGEL_DESIGN_SERVICES\CORRECTED ENGLISH-METRIC STANDARDS\1001B.plt 00-006

POND

3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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EOR/AOR SEAL

GSWCC# 95439,
EXP. 9/10/2027

CLIENT INFORMATION

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

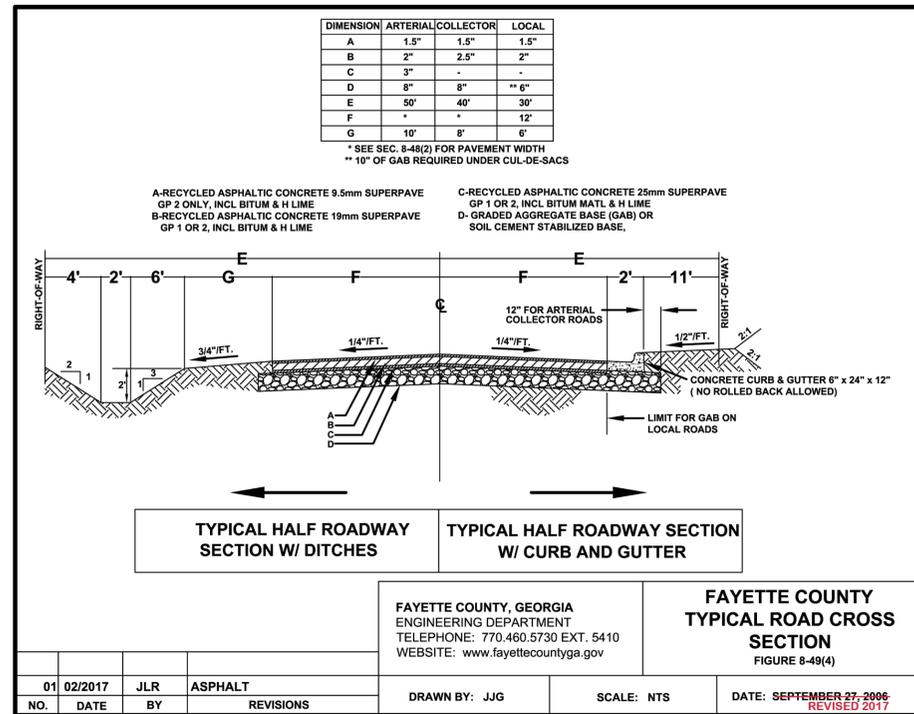
PROJECT NAME

**140 BRANDON
MILL CIRCLE
CULVERT
REPLACEMENT**

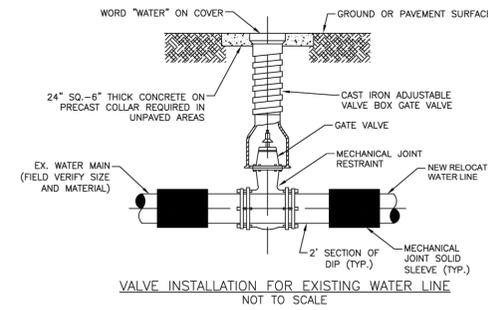
FAYETTE COUNTY, GA

| DRAWING ISSUE | DATE | DESCRIPTION | MARK |
|----------------|--------------------------------|-------------|------|
| DESIGNED BY: | CAO | | |
| DRAWN BY: | JCU | | |
| CHECKED BY: | DMM | | |
| SUBMITTED BY: | DMM | | |
| DATE: | JUNE 12, 2025 | | |
| PROJECT # | 1250230 | | |
| SHEET TITLE | CONSTRUCTION DETAILS | | |
| SHEET NUMBER | C-503 | | |
| SHEET 11 OF 24 | ORIGINAL SHEET SIZE: 22" X 34" | | |

FILE PATH: X:\F251250230\07 CAD-BIM\07.02 CAD\GVLIC-500 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

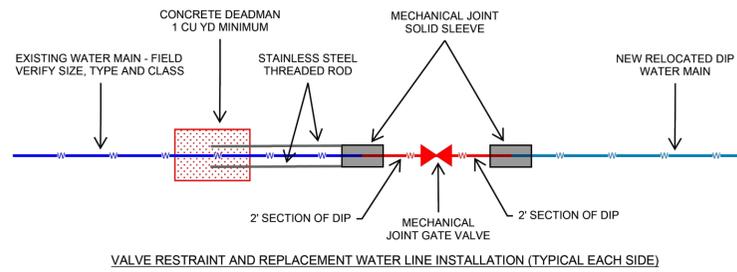
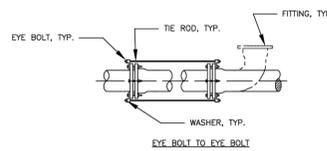


B1 FAYETTE COUNTY TYPICAL ROAD CROSS SECTION
SCALE: N.T.S.

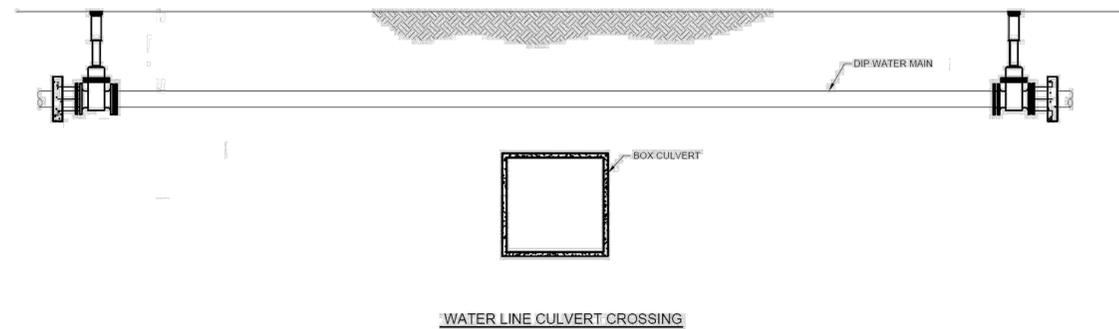


FCWS CULVERT CROSSING NOTES

1. Field-verify water line size and material type. All replacement pipe shall be ductile iron and match existing diameter.
2. All replacement water line shall be installed with Field Lok gaskets or approved equal.
3. All fittings shall be restrained with EBAA MEGALUG mechanical joint restraints or approved equal.
4. Fittings on replacement water line shall be restrained with 304 stainless steel threaded rods with a minimum yield strength of 50,000 psi as directed by FCWS.
5. Threaded rods shall be fastened with high strength, low alloy steel eye bolts, nuts and washers.
6. Utilize mechanical joint ductile iron solid sleeves to connect to existing water line as needed.
7. The minimum distance between fittings, valves, tees, sleeves, etc. is 24".
8. Ensure that replacement water line is centered over culvert with at least 6" of compacted earth underneath.



C3 FAYETTE COUNTY WATER LINE CROSSING
SCALE: N.T.S.



A3 WATER LINE CULVERT CROSSING
SCALE: N.T.S.



3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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CLIENT INFORMATION

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

PROJECT NAME

140 BRANDON
MILL CIRCLE
CULVERT
REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE

**CONSTRUCTION
DETAILS**

SHEET NUMBER

C-504

SHEET 12 OF 24

ORIGINAL SHEET SIZE:
22" X 34"

TYPE 'A'
LONGITUDINAL SECTION
CROSS SECTION
PLAN

TYPE 'B' WITH WEIR
LONGITUDINAL SECTION
CROSS SECTION
PLAN

TYPE 'C'
LONGITUDINAL SECTION
CROSS SECTION
PLAN

TYPE 'D' WITH WEIR
LONGITUDINAL SECTION
CROSS SECTION
PLAN

TYPE 'E' (WITH HOOD)
LONGITUDINAL SECTION
CROSS SECTION
PLAN

DETAILS OF C.I. GRATING & FRAME

DETAIL OF HOOD (NON-MOUNTABLE)

DETAIL OF HOOD (MOUNTABLE)

BRICK WALL THICKNESSES

CONSTRUCTION ALTERNATES

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

| PIPE SIZE | TYPE 'A' | | | | TYPE 'B' | | | | TYPE 'C' | | | | TYPE 'D' | | | | TYPE 'E' | | | |
|-----------|----------|-------|-------|-------|----------|-------|-------|-------|----------|-------|-------|-------|----------|-------|-------|-------|----------|-------|--|--|
| | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | | |
| 0 | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 12" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 18" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 24" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 30" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 36" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 42" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 48" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 54" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 60" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD DROP INLETS (BUILT-IN-PLACE)
SCALE AS SHOWN
REV. & REFR. AUG. 1999
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
NUMBER: 1019A
PRECAST

TYPE 'A'
LONGITUDINAL SECTION
CROSS SECTION
PLAN

TYPE 'B' WITH WEIR
LONGITUDINAL SECTION
CROSS SECTION
PLAN

TYPE 'C'
LONGITUDINAL SECTION
CROSS SECTION
PLAN

TYPE 'E'
LONGITUDINAL SECTION
CROSS SECTION
PLAN

DETAILS OF C.I. GRATING & FRAME

DETAIL OF HOOD (NON-MOUNTABLE)

DETAIL OF HOOD (MOUNTABLE)

BRICK WALL THICKNESSES

CONSTRUCTION ALTERNATES

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

| PIPE SIZE | TYPE 'A' | | | | TYPE 'B' | | | | TYPE 'C' | | | | TYPE 'E' | | | |
|-----------|----------|-------|-------|-------|----------|-------|-------|-------|----------|-------|-------|-------|----------|-------|--|--|
| | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | | |
| 0 | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 12" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 18" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 24" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 30" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 36" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 42" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 48" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 54" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |
| 60" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | 2'-0" | | |

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD PRECAST DROP INLETS
SCALE AS SHOWN
AUG. 1999
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
NUMBER: 1019A
PRECAST

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092
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EOR/AOR SEAL
GEORGIA
Professional Engineer
CODY ALAN OWENBY
GWSWCT 95439
EXP. 9/10/2027
CLIENT INFORMATION

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

PROJECT NAME
140 BRANDON MILL CIRCLE CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE
DATE
DESCRIPTION
MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT #: 1250230

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
C-505
SHEET 13 OF 24
ORIGINAL SHEET SIZE: 22" X 34"

RECOMMENDED MINIMUM TRENCH WIDTHS

| PIPE DIAM. | MIN. TRENCH WIDTH |
|--------------|-------------------|
| 4" (100mm) | 21" (533mm) |
| 5" (127mm) | 23" (584mm) |
| 8" (200mm) | 26" (660mm) |
| 10" (250mm) | 28" (711mm) |
| 12" (300mm) | 30" (762mm) |
| 15" (375mm) | 34" (864mm) |
| 18" (450mm) | 39" (991mm) |
| 24" (600mm) | 48" (1219mm) |
| 30" (750mm) | 58" (1472mm) |
| 36" (900mm) | 64" (1626mm) |
| 42" (1050mm) | 72" (1829mm) |
| 48" (1200mm) | 80" (2032mm) |
| 60" (1500mm) | 96" (2438mm) |

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS*

| PIPE DIAM. | SURFACE LIVE LOADING CONDITIONS** | |
|----------------------------|-----------------------------------|--|
| | H-20 | HEAVY TRUCK CONSTRUCTION (AXLE LOAD) * |
| 12" - 48" (300mm - 1200mm) | 12" (305mm) | 48" (1219mm) |
| 60" (1500mm) | 24" (610mm) | 60" (1524mm) |

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

| PIPE DIAM. | CLASS I | | | CLASS II | | |
|--------------|------------|-----------|-----------|-----------|-----------|-----------|
| | COMPACTED | DUMPED | 95% | 90% | 95% | 90% |
| 4" (100mm) | 37 (11.3m) | 18 (5.5m) | 25 (7.6m) | 18 (5.5m) | 18 (5.5m) | 18 (5.5m) |
| 6" (150mm) | 44 (13.4m) | 20 (6.1m) | 29 (8.8m) | 20 (6.1m) | 21 (6.4m) | 21 (6.4m) |
| 8" (200mm) | 44 (13.4m) | 15 (4.6m) | 22 (6.7m) | 15 (4.6m) | 16 (4.9m) | 16 (4.9m) |
| 10" (250mm) | 38 (11.6m) | 18 (5.5m) | 26 (7.9m) | 18 (5.5m) | 18 (5.5m) | 18 (5.5m) |
| 12" (300mm) | 35 (10.7m) | 17 (5.2m) | 24 (7.3m) | 17 (5.2m) | 17 (5.2m) | 17 (5.2m) |
| 15" (375mm) | 38 (11.6m) | 17 (5.2m) | 25 (7.6m) | 17 (5.2m) | 18 (5.5m) | 18 (5.5m) |
| 18" (450mm) | 36 (11.0m) | 17 (5.2m) | 24 (7.3m) | 17 (5.2m) | 17 (5.2m) | 17 (5.2m) |
| 24" (600mm) | 28 (8.5m) | 13 (4.0m) | 20 (6.1m) | 13 (4.0m) | 14 (4.3m) | 14 (4.3m) |
| 30" (750mm) | 28 (8.5m) | 13 (4.0m) | 20 (6.1m) | 13 (4.0m) | 14 (4.3m) | 14 (4.3m) |
| 36" (900mm) | 26 (7.9m) | 12 (3.7m) | 18 (5.5m) | 12 (3.7m) | 13 (4.0m) | 13 (4.0m) |
| 42" (1050mm) | 23 (7.0m) | 11 (3.4m) | 16 (4.9m) | 11 (3.4m) | 11 (3.4m) | 11 (3.4m) |
| 48" (1200mm) | 25 (7.6m) | 11 (3.4m) | 17 (5.2m) | 11 (3.4m) | 11 (3.7m) | 11 (3.7m) |
| 60" (1500mm) | 25 (7.6m) | 11 (3.4m) | 17 (5.2m) | 11 (3.4m) | 12 (3.7m) | 12 (3.7m) |

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE,
UNIT WEIGHT OF SOIL (Ys) = 120 PCF

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

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ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

| REV. | DESCRIPTION | BY | MM/DD/YY | CHKD |
|------|------------------|-----|----------|------|
| 6 | INITIAL BACKFILL | JAB | 04/02/20 | |

TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)

DRAWING NUMBER: STD-101

4DS
ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DESIGNED BY: TJR
DATE: 12/29/16
CHECKED BY: NTS
SUBMITTED BY: DMM
SCALE: 1 OF 1

POND

3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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EOR/AOR SEAL

GSWCC# 95439,
EXP. 9/10/2027

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FAYETTE COUNTY, GA

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DATE: JUNE 12, 2025
PROJECT # 1250230

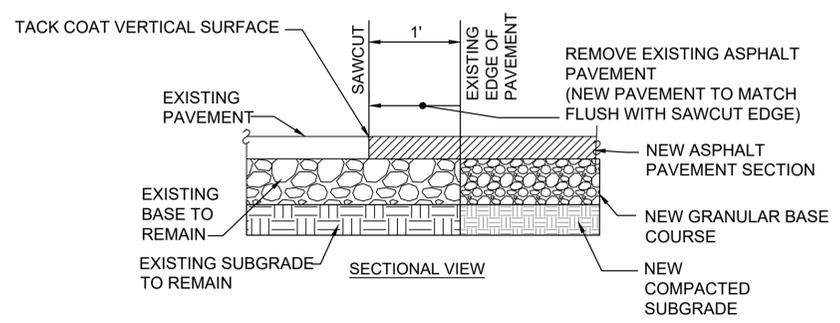
SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

C-506

SHEET 14 OF 24
ORIGINAL SHEET SIZE: 22" X 34"



A1 TIE TO EXISTING ASPHALT PAVEMENT
SCALE: N.T.S.

FILE PATH: X:\FY25\1250230\07 CAD-BIM\07.02 CAD\CIVIL\C-500 PLOTTED BY: URUETA, JUAN DATE: 21/10/2026

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.

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'S CERTIFICATION:

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

Cody A. Owenby, PE
 CODY OWENBY, P.E.

05/09/2025
 DATE

GSWCC LEVEL II CERTIFICATION # 0000095439
 EXPIRES: 09/10/2027

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES

(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100002)

GENERAL PROJECT DATA

OWNER/ PRIMARY: FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT
 PHIL MALLON
 140 STONEWALL AVE. W., 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: CODY OWENBY, PE
 GA. P.E. # 047343, E&S LEVEL II CERTIFICATION # 0000095439

CONTRACTOR: TO BE DETERMINED

24-HOUR EROSION AND SEDIMENT CONTROL CONTACT: PHIL MALLON - 770-313-9855

TOTAL SITE AREA: 0.5 ACRES
 DISTURBED AREA: 0.03 ACRES
 TOTAL IMPERVIOUS AREA: 0.02 ACRES

EXISTING LAND USE: THE EXISTING LAND USE CONSISTS OF 48-INCH DIAMETER CMP CULVERT AND A PAVED ROAD IN A RESIDENTIAL AREA.

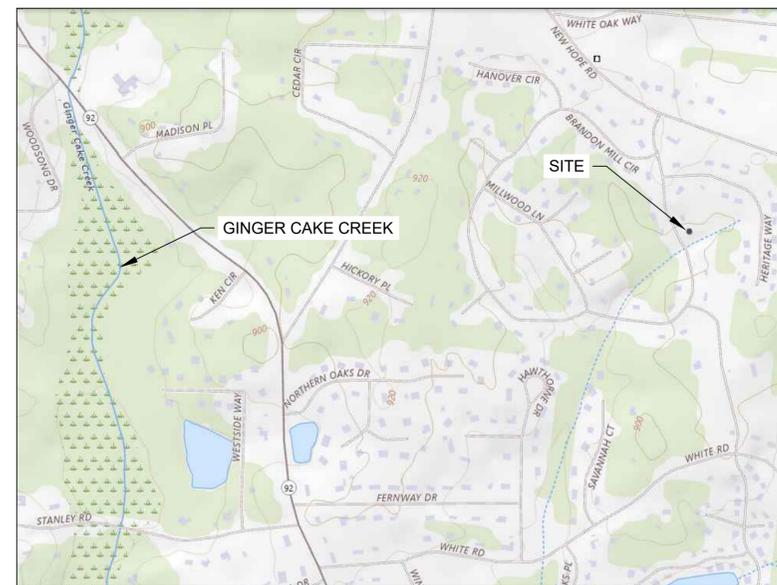
PROPOSED CONSTRUCTION ACTIVITIES: THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED 48 INCH DIAMETER CMP CULVERT. THE CULVERT IS TO BE REPLACED WITH A 359 LINEAR FEET 54-INCH DIAMETER HDPE AND RCP CULVERT.

GPS COORDINATES OF CONSTRUCTION ENTRANCE: 33.4802° N, 84.4627° W
 NAME OF RECEIVING WATERS: UNNAMED TRIBUTARY TO GINGER CAKE CREEK
 STATE AND FEDERAL WATERS EXIST ON OR WITHIN 200' OF THE PROJECT SITE.
 NO KNOWN WETLANDS EXIST ON OR WITHIN 200' OF THE PROJECT SITE.
 THERE ARE NO IMPAIRED STREAMS WITHIN ONE MILE OF THIS PROJECT.

National Flood Hazard Layer FIRMette



PLAN NORTH
FEMA FLOOD MAP - 13113C0102E
 SCALE: NTS
 DATED 09/26/2008



PLAN NORTH
VICINITY MAP
 SCALE: NTS

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
- With BFE or Depth Zone A-E, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee, See Notes, Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- no SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

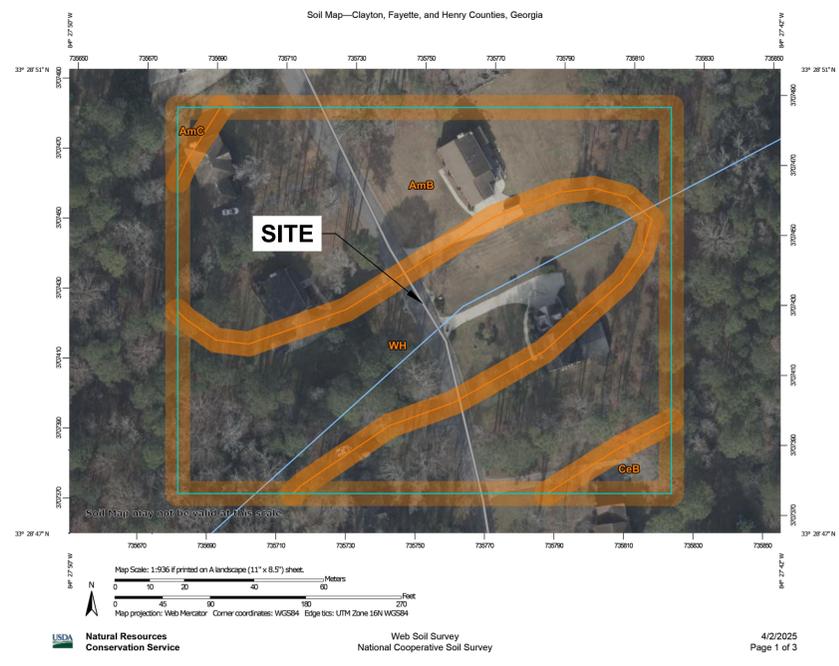
OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transsect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transsect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was reported on 4/2/2025 at 12:58 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmapped areas cannot be used for regulatory purposes.



SOIL MAP

SOILS LEGEND

| SYMBOL | DESCRIPTION |
|--------|---|
| AmB | Appling sandy loam, 2 to 6 percent slopes |
| AmC | Appling sandy loam, 6 to 10 percent slopes |
| CeB | Cecil sandy loam, 2 to 6 percent slopes |
| WH | Wehadkee soils, 0 to 2 percent slopes, frequently flooded |

ACTIVITY SCHEDULE (FOR PERMITTING REFERENCE ONLY)

| ACTIVITY | TIME / 16 WEEKS | | | | | | | | | | | | | | | |
|--|-----------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| INSTALL SILT FENCE, CONSTRUCTION EXIT | █ | | | | | | | | | | | | | | | |
| CLEARING AND GRUBBING | █ | █ | █ | █ | | | | | | | | | | | | |
| INSTALL REMAINDER OF INITIAL PERIMETER CONTROLS INCLUDING SEDIMENT BASINS, CHECK DAMS, ROCK DAMS, DIVERSION BERMS, ROCK FILTER, DOWN DRAINS, INLET SEDIMENT TRAPS, AND FILTER RINGS. | | | █ | █ | | | | | | | | | | | | |
| DEMOLITION OF SURFACE PAVEMENT, OR ANY OTHER MISCELLANEOUS REQUIRED BMP, FENCES, EXISTING CULVERTS AND UTILITY POLES | | | █ | | | | | | | | | | | | | |
| UTILITY RELOCATION | | | | █ | █ | █ | █ | █ | | | | | | | | |
| ROUGH GRADING OPERATIONS | | | | | | | █ | █ | █ | █ | | | | | | |
| INSTALLATION OF PROPOSED CULVERTS | | | | | | | | | | █ | █ | █ | █ | █ | | |
| FINAL PAVING AND GRADING | | | | | | | | | | | | | | | █ | █ |
| PERMANENT SEEDING | | | | | | | | | | | | | | | | █ |
| REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES | | | | | | | | | | | | | | | | █ |
| MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ |

DESIGN PROFESSIONAL:
 CODY OWENBY, PE.
 LEVEL II CERTIFICATION
 No.: 0000095439
 EXPIRES : 09/10/2027



Know what's below.
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 Suite 500
 Peachtree Corners
 Georgia 30092
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DESIGNED BY: CAO
 DRAWN BY: JCU
 CHECKED BY: DMM
 SUBMITTED BY: DMM
 DATE: JUNE 12, 2025
 PROJECT # 1250230

SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER
CE001
 SHEET 15 OF 24
 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"), INLET PROTECTION (SD2-F), CURB INLET PROTECTION (SD2-P), SEDIMENT TRAP (SD4), AND CONSTRUCTION EXIT SHALL BE INSTALLED PRIOR TO CLEARING, DEMOLITION, AND GRADING OPERATIONS TO KEEP SEDIMENT CONTAINED WITHIN THE SITE AS NECESSARY. SEDIMENT STORAGE OF 67 CY PER DISTURBED ACRE SHALL BE PROVIDED.

CRITICAL WORK ZONE:

ALL DISTURBED SLOPES 3:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, AND SLOPE STABILIZATION. SILT FENCING AND THE CONSTRUCTION EXIT SHALL BE USED TO PREVENT SEDIMENT FROM LEAVING THE DISTURBED AREA. INLET PROTECTION SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER.

STORM WATER MANAGEMENT:

A NEW PERMANENT STORMWATER MANAGEMENT BMP WILL BE PROVIDED AS A PART OF THIS PROJECT. THE PROJECT WILL INSTALL RIPRAP AT EACH END OF THE PROPOSED CULVERT TO TREAT STORMWATER QUALITY ON SITE.

CONSTRUCTION PERIOD STORM WATER POLLUTANT CONTROL:

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

POST-CONSTRUCTION STORM WATER POLLUTANT CONTROL:

EXISTING UNDISTURBED AREAS ARE PRIMARILY COVERED IN VEGETATION OR HARDSCAPE. MEASURES WILL BE TAKEN TO ENSURE ALL PVIOUS DISTURBED AREAS ARE VEGETATED POST-CONSTRUCTION TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES.

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) 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 STEEPER THAN 3H:1V SHALL BE STABILIZED WITH SLOPE STABILIZATION (SS). 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.

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 PERMITTEE(S), 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. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT.

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 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:

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:

NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO STORM WATER INLETS, WATERS OF THE STATE, OR WATERS OF THE UNITED STATES, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROPRIATE WASTE MANAGEMENT FACILITY PERMISSIBLE UNDER PERMIT NO. GAR 100002. 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 ARE 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. SEE SPILL CLEANUP AND CONTROL PRACTICES FOR DETAILS.

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.

SPILL CLEANUP AND CONTROL PRACTICES :

- A. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- B. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL 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 WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- D. ALL SPILLS MUST BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS MUST BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
- E. ALL SPILLS MUST BE IMMEDIATELY REPORTED TO BASE CEV (ENVIRONMENTAL FLIGHT). BASE CEV WILL PROVIDE STORMWATER TRAINING SLIDES THAT MUST BE REVIEWED AND IMPLEMENTED BY THE CONTRACTOR.
- F. FOR SPILLS THAT IMPACT SURFACE WATERS (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NCR) MUST BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- G. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONS RESPONSE CENTER NRC MUST BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- H. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. MUST BE CONTACTED WITHIN 24 HOURS.
- I. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL MUST BE CLEANED UP AND LOCAL AGENCIES MUST 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 1320 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 COUNTER MEASURERS PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

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 TARPAULIN. 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.

ONLY DOBBINS ARB APPROVED PESTICIDES/HERBICIDES WILL BE USED. A COPY OF THE APPROVED LIST WILL BE PROVIDED BY BASE CEV AND MUST BE IMPLEMENTED BY THE CONTRACTOR.

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.

J. PRODUCTS AND MATERIALS MUST BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.

K. PRODUCTS MUST BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.

L. PRODUCT MIXING, PRODUCT DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

M. THE CONTRACTOR MUST INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

MATERIALS AND PRODUCTS DRY STORAGE

"FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE)."

EROSION CONTROL LEGEND

| | |
|--------------|--|
| Ds1 | TEMPORARY MULCHING - DETAIL A1/CE501 |
| Ds2 | TEMPORARY SEEDING - DETAIL A3/CE501 |
| Ds3 | DISTURBED AREA STABILIZATION W/ PERMANENT SEEDING - DETAIL B3/CE502 |
| Ds4 | DISTURBED AREA STABILIZATION W/ SODDING - DETAIL A1/CE502 |
| Sd1-S | SILT FENCING - SENSITIVE - DETAIL A1/CE503 |
| Sd2-P | CURB INLET FILTER - DETAIL A3/CE503 |
| Co | CONSTRUCTION EXIT - DETAIL A1/CE506 |
| Du | DUST CONTROL - DETAIL C1/CE501 |
| St | RIP RAP - OUTLET PROTECTION - DETAIL A1/CE504 |
| Tr | TREE PROTECTION - DETAIL C1/CE503 |

DESIGN PROFESSIONAL:
CODY OWENBY, PE.
LEVEL II CERTIFICATION
No.: 0000095439
EXPIRES : 09/10/2027



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EOR/AOR SEAL



GSWCCT# 95439,
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

140 BRANDON MILL CIRCLE CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE

EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER

CE002

SHEET 16 OF 24

ORIGINAL SHEET SIZE:
22" X 34"

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS GAR100002

SWCD: Towaliga

Project Name: 140 Brandon Mill Circle Culvert Replacement

Address: 140 Brandon Circle, Fayetteville, GA 30214

Local Issuing Authority: Fayette County

Date on Plans: 06/12/2025

Name & Email of person filling out checklist: Liam Sullivan, liam.sullivan@pondco.com

Table with columns: Plan Page #, Included Y/N, TO BE SHOWN ON ES&PC PLAN. Rows 1-25 detailing erosion control requirements.

Table with columns: N/A, Y, Description. Rows 26-52 detailing construction and site management requirements.

Effective January 1, 2025

DESIGN PROFESSIONAL:
CODY OWENBY, PE.
LEVEL II CERTIFICATION
No.: 000095439
EXPIRES : 09/10/2027



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

PROJECT NAME
140 BRANDON
MILL CIRCLE
CULVERT
REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE
EROSION AND
SEDIMENT
CONTROL
NOTES

SHEET NUMBER
CE003
SHEET 17 OF 24
ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\F25\250230\07 CAD-BIM\07 02 CAD\CIVIL\CE001 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

GENERAL SHEET NOTES

1. REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
2. 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.
3. 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.
4. 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.
5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
6. ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
7. CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND

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



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FAYETTE COUNTY

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

PROJECT NAME

**140 BRANDON MILL CIRCLE
CULVERT
REPLACEMENT**
FAYETTE COUNTY, GA

DRAWING ISSUE

| DATE | DESCRIPTION | MARK |
|------|-------------|------|
| | | |

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE

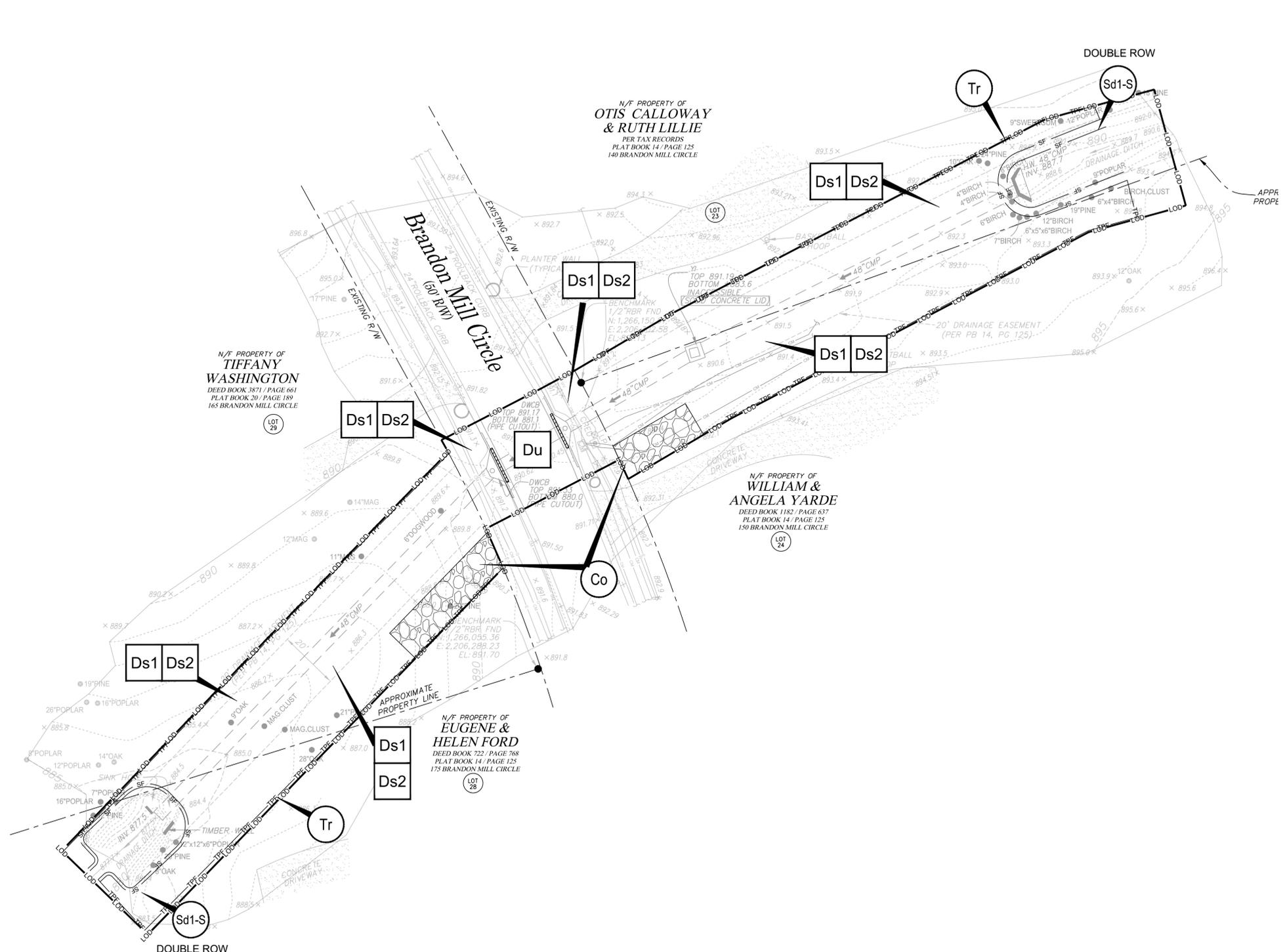
**EROSION AND
SEDIMENT
CONTROL PLAN
- INITIAL PHASE**

SHEET NUMBER

CE101

SHEET 18 OF 24

ORIGINAL SHEET SIZE:
22" X 34"



A1 EROSION AND SEDIMENT CONTROL PLAN - INITIAL PHASE
SCALE: 1" = 20'



FILE PATH: X:\F\251\250230\07 CAD-BIM\07.02 CAD\CIVIL\CE101 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

GENERAL SHEET NOTES

1. REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
2. 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.
3. 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.
4. 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.
5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
6. ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
7. CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND

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



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CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

**140 BRANDON MILL CIRCLE
CULVERT
REPLACEMENT**
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE

**EROSION AND
SEDIMENT
CONTROL PLAN
- FINAL PHASE**

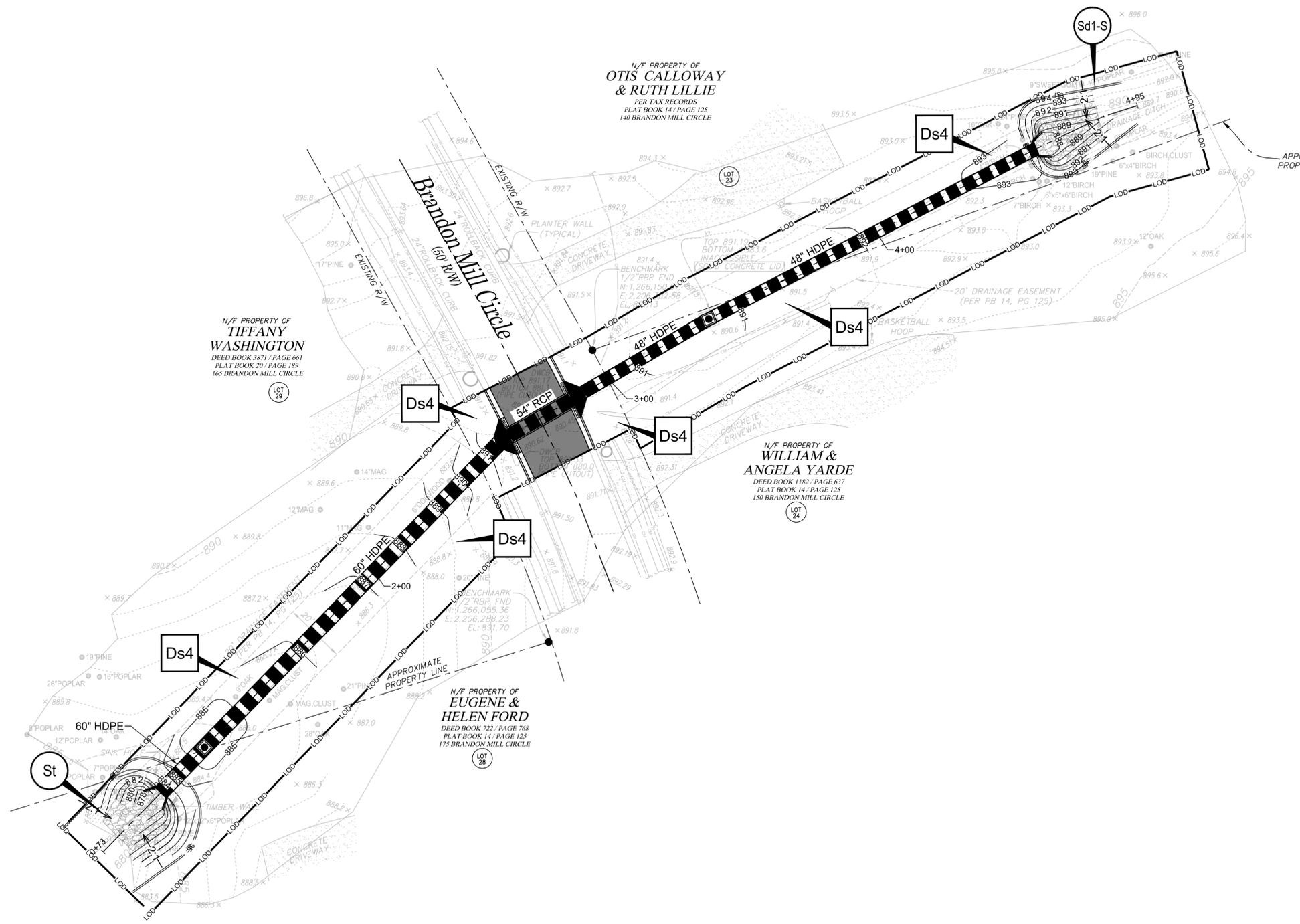
SHEET NUMBER

CE201

SHEET 19 OF 24

ORIGINAL SHEET SIZE:
22" X 34"

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C
B
A



A1 EROSION AND SEDIMENT CONTROL PLAN - FINAL PHASE
SCALE: 1" = 20'



FILE PATH: X:\F\25\1250230\07 CAD-BIM\07.02 CAD\CIVIL\CE101 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

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.

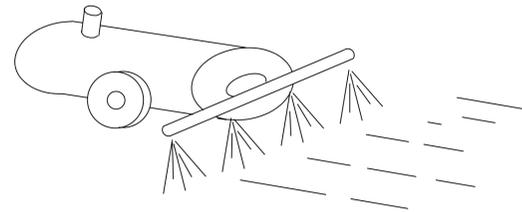
C1 DUST CONTROL
SCALE: N.T.S.

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.



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.

Table with columns: Species, Broadcast Rates - PLS Per Acre, Broadcast Rates - PLS Per 1000 sq.ft., and Planting Dates (Solid lines indicate optimum dates, dotted lines indicated permissible but marginal dates).

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

Table with columns: Species, Rates per 1,000 sq. ft., Rates per Acre, Region M-L (Mountain, Blue Ridge, Ridges and Valley), Region P (Southern Piedmont), and Region C (Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coastal Flatwoods).

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

TABLE 2. FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

Table with columns: Types of Species, Planting Year, Fertilizer (N-P-K), Rate (lbs./acre), and N Top Dressing Rate (lbs./acre).

INSTALLATION NOTES:

- 1. INSTALL ALL E&S MEASURES PRIOR TO APPLYING TEMPORARY VEGETATION.
2. GRADING OR SHAPING ARE NOT REQUIRED IF SLOPES CAN BE PLANTED WITH A HYDROSEEDER OR BY HAND-SEEDING.
3. SEEDBED PREPARATION IS NOT REQUIRED IF SOIL IS LOOSE AND NOT SEALED BY RAIN.
4. WHEN THE SOIL IS SEALED OR CRUSTED, IT SHOULD BE PITTED, TRENCHED OR SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
5. AGRICULTURAL LIME IS NOT REQUIRED.
6. 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.)
7. 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.
8. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER. SEED PLANTED WITH A DRILL SHOULD BE PLANTED 1/4"-1/2" DEEP.
9. APPLY IN ACCORDANCE WITH SPECIFICATIONS ON THE E&S PLAN. IF INFORMATION IS NOT AVAILABLE, SELECT A TEMPORARY COVER FROM TABLE 1.
10. TEMPORARY COVER SHALL BE APPLIED TO ALL DISTURBED AREAS LEFT IDLE FOR 14 DAYS. (IF AN AREA IS LEFT IDLE 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.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED. REFER TO Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING), AND Ds4 - DISTURBED AREA STABILIZATION (WITH SODDING).

MULCHING WITHOUT SEEDING

THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

- 1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES, AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

- 1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
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. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

APPLYING MULCH

MULCHING RATE: MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

- 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 THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. 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 SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 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 ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS, BINDERS, AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION Tac - TACKIFIERS. 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. OPENINGS 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.

A1 DISTURBED AREA STABILIZATION (WITH MULCHING)
SCALE: N.T.S.

Ds1

A3 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
SCALE: N.T.S.

Ds2

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

PROJECT NAME
140 BRANDON MILL CIRCLE
CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE
DESCRIPTION
MARK

DESIGNED BY: CAO
DRAWN BY: JCU
CHECKED BY: DMM
SUBMITTED BY: DMM
DATE: JUNE 12, 2025
PROJECT # 1250230

SHEET TITLE
EROSION AND SEDIMENT CONTROL DETAILS

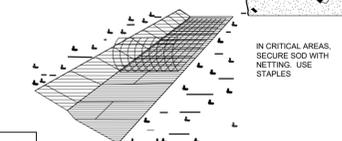
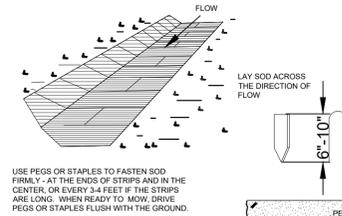
SHEET NUMBER
CE501
SHEET 20 OF 24
ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\F\251250230\07 CAD-BIM\07 02 CAD\CIVIL\CE501 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

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.



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

1. IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK USE.
2. 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 SOD 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 CLODS 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.

1. SOD SHOULD BE MACHINE CUT AND CONTAIN 3/4" (+ OR - 1/4") OF SOIL, NOT INCLUDING SHOOTS OR THATCH.
2. SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN + OR -5% TORN OR UNEVEN PADS SHOULD BE REJECTED.
3. SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
4. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
5. 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.

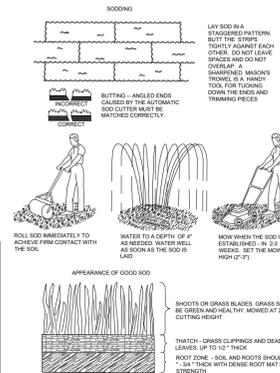
SOD PLANTING REQUIREMENTS

| GRASS | VARIETIES | RESOURCE AREA | GROWING SEASON |
|---------------|---|------------------------------|----------------|
| BERMUDAGRASS | COMMON TIFWAY TIFGREEN TIFLAWN | M-L,P,C P,C P,C P,C | WARM WEATHER |
| BAHAGRASS | PENSACOLA | P,C | WARM WEATHER |
| CENTIPEDE | - | P,C | WARM WEATHER |
| ST. AUGUSTINE | COMMON BITTERBLUE RALEIGH | C | WARM WEATHER |
| ZOYSIA | EMERALD MEYER | P,C | WARM WEATHER |
| TALL FESCUE | KENTUCKY | M-L,P | COOL WEATHER |

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 | -- |
| | MAINTENANCE | 10-10-10 | 400 | 30 |
| WARM SEASON GRASSES | FIRST | 6-12-12 | 1500 | 50-100 |
| | SECOND | 6-12-12 | 800 | 50-100 |
| | MAINTENANCE | 10-10-10 | 400 | 30 |



B3 DISTURBED AREA STABILIZATION (WITH SODDING)
SCALE: N.T.S.

Ds4

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EOR/AOR SEAL

GSWCCT# 95439,
EXP. 9/10/2027
CLIENT INFORMATION

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

PROJECT NAME
**140 BRANDON
MILL CIRCLE
CULVERT
REPLACEMENT**
FAYETTE COUNTY, GA

DRAWING ISSUE

| DATE | DESCRIPTION | MARK |
|------|-------------|------|
| | | |

DESIGNED BY: CAO
 DRAWN BY: JCU
 CHECKED BY: DMM
 SUBMITTED BY: DMM
 DATE: JUNE 12, 2025
 PROJECT # 1250230

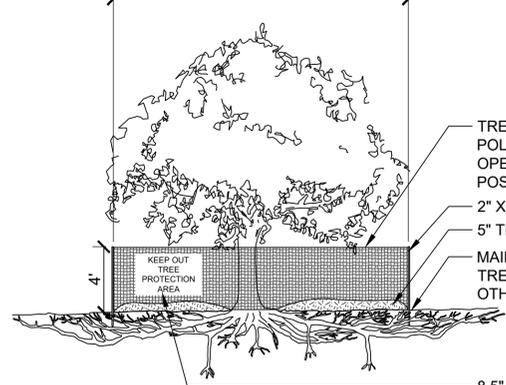
SHEET TITLE
**EROSION AND
SEDIMENT
CONTROL
DETAILS**

SHEET NUMBER
CE502
SHEET 21 OF 24
ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY25\1250230\07 CAD-BIM\07.02 CAD\CIVIL\CE501 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026

CROWN DRIP LINE OR OTHER LIMIT OF TREE PROTECTION AREA.

SEE CE101 FOR FENCE ALIGNMENT.



- TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5' X 1.5" OPENINGS; COLOR - ORANGE. STEEL POSTS INSTALLED AT 8' O.C.
- 2" X 6" STEEL POSTS OR APPROVED EQUAL
- 5" THICK LAYER OF MULCH
- MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS
- 8.5" X 11" SIGN LAMINATED IN PLASTIC SPACED EVERY 50' ALONG THE FENCE

SECTION VIEW

NOTES:

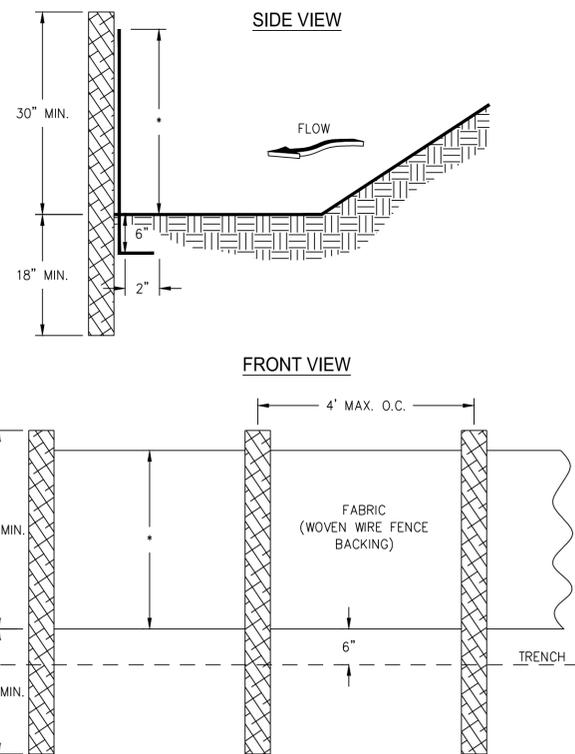
1. SEE CS101 FOR LIMITS OF ORANGE TREE PROTECTION FENCE.
2. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
3. NO EQUIPMENT SHALL OPERATE INSIDE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
4. SEE SITE PREPARATION FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

C1 ORANGE TREE PROTECTION

SCALE: N.T.S.

Tr

SILT FENCE - TYPE SENSITIVE



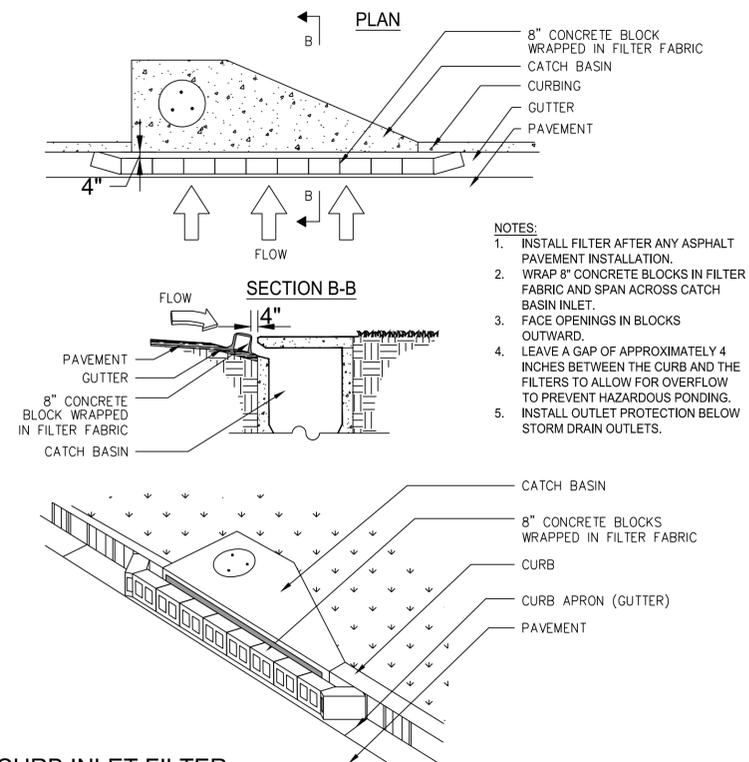
- NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

A1 SILT FENCE - SENSITIVE

SCALE: N.T.S.

Sd1-S

CURB INLET FILTER "PIGS IN BLANKET"



NOTES:

1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

A3 CURB INLET FILTER

SCALE: N.T.S.

Sd2-P



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PROJECT NAME

140 BRANDON
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FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO
 DRAWN BY: JCU
 CHECKED BY: DMM
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 DATE: JUNE 12, 2025
 PROJECT # 1250230

SHEET TITLE

EROSION AND
SEDIMENT
CONTROL
DETAILS

SHEET NUMBER

CE503

SHEET 22 OF 24

ORIGINAL SHEET SIZE:
22" X 34"



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**EROSION AND
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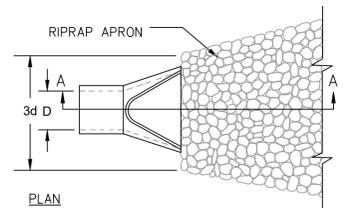
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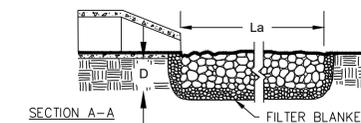
SHEET 23 OF 24

ORIGINAL SHEET SIZE:
22" X 34"

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



PLAN

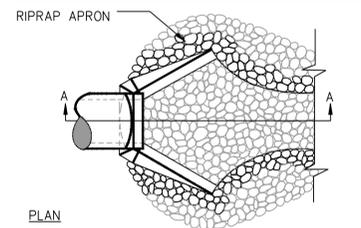


SECTION A-A

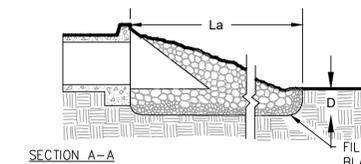
NOTES:

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

Riprap Apron Summary

| (St) | Pipe Diameter (Do) | Flow Rate (cfs) | Velocity (fps) | Tailwater (Min/Max) | Riprap size (d50) | Max Stone Size | Apron Thickness | Apron Length (La) | Apron Width at HW (W=3Do) | Apron Width at End (W=Do+La) | Apron Weight (tons) |
|------|--------------------|-----------------|----------------|---------------------|-------------------|----------------|-----------------|-------------------|---------------------------|------------------------------|---------------------|
| 1 | 54 | 98.17 | 9.72 | 0.3 | Max | 0.45 | 0.675 | 20 | 13.5 | 24.5 | 9.8 |

A1

RIP RAP - OUTLET PROTECITON

SCALE: N.T.S.

St

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| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
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| GA. | | | |

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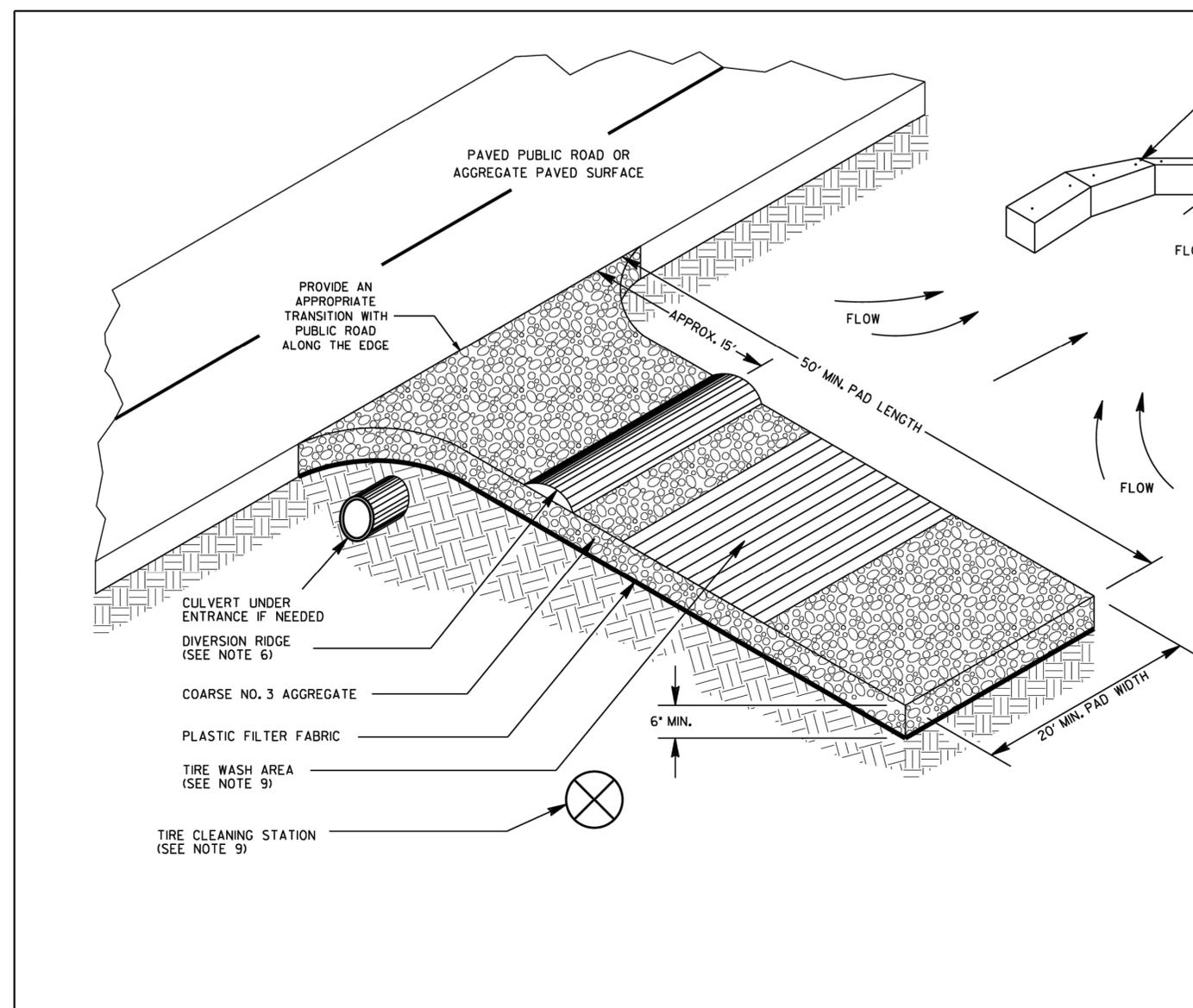
**EROSION AND
SEDIMENT
CONTROL
DETAILS**

SHEET NUMBER

CE505

SHEET 24 OF 24

ORIGINAL SHEET SIZE:
22" X 34"



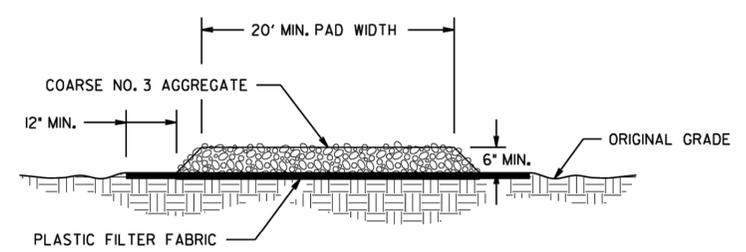
GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
 5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
 9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS THUS DICTATING ADDITIONAL TIRE CLEANING MEASURES, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER, THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES: WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM TASK. THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.

THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
 10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
 11. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA. WHEN DIRECTED BY THE ENGINEER, ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

| PAY ITEM: | DESCRIPTION | UNIT |
|--|---|-------|
| 163-0301 | CONSTRUCT AND REMOVE CONSTRUCTION EXITS | (EA) |
| 165-0101 | MAINTENANCE OF CONSTRUCTION EXIT | (EA) |
| 165-0310 | MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA | (EA) |
| PAY ITEM: FOR FIELD USE ONLY ACCORDING TO SECTION 163 | | |
| 163-0310 | CONSTRUCTION EXIT TIRE CLEANING STATION | (DAY) |

ENTRANCE ELEVATION



| HAC | REV | GEN NOTES | DATE |
|-----|------|--------------------------|----------|
| | B-11 | 11-04-20 | |
| | | REV. TIRE WASH & NOTES | 04-18-18 |
| | | REV. GSWCC 2016 MANUAL | 04-22-16 |
| | | REV. CONSTR. EXIT LABELS | 01-19-11 |
| | | REVISION | |

| | | | |
|----------|--|------|--|
| DESIGNED | | ____ | |
| DRAWN | | ____ | |
| TRACED | | ____ | |
| CHECKED | | ____ | |

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
CONSTRUCTION EXIT

NO SCALE FEBRUARY 2001

NUMBER
D-41

A1 CONSTRUCTION EXT
SCALE: N.T.S.

Co

FILE PATH: X:\F\251250230\07 CAD-BIM\07.02 CAD\CIVIL\CE501 PLOTTED BY: URUETA, JUAN DATE: 2/10/2026