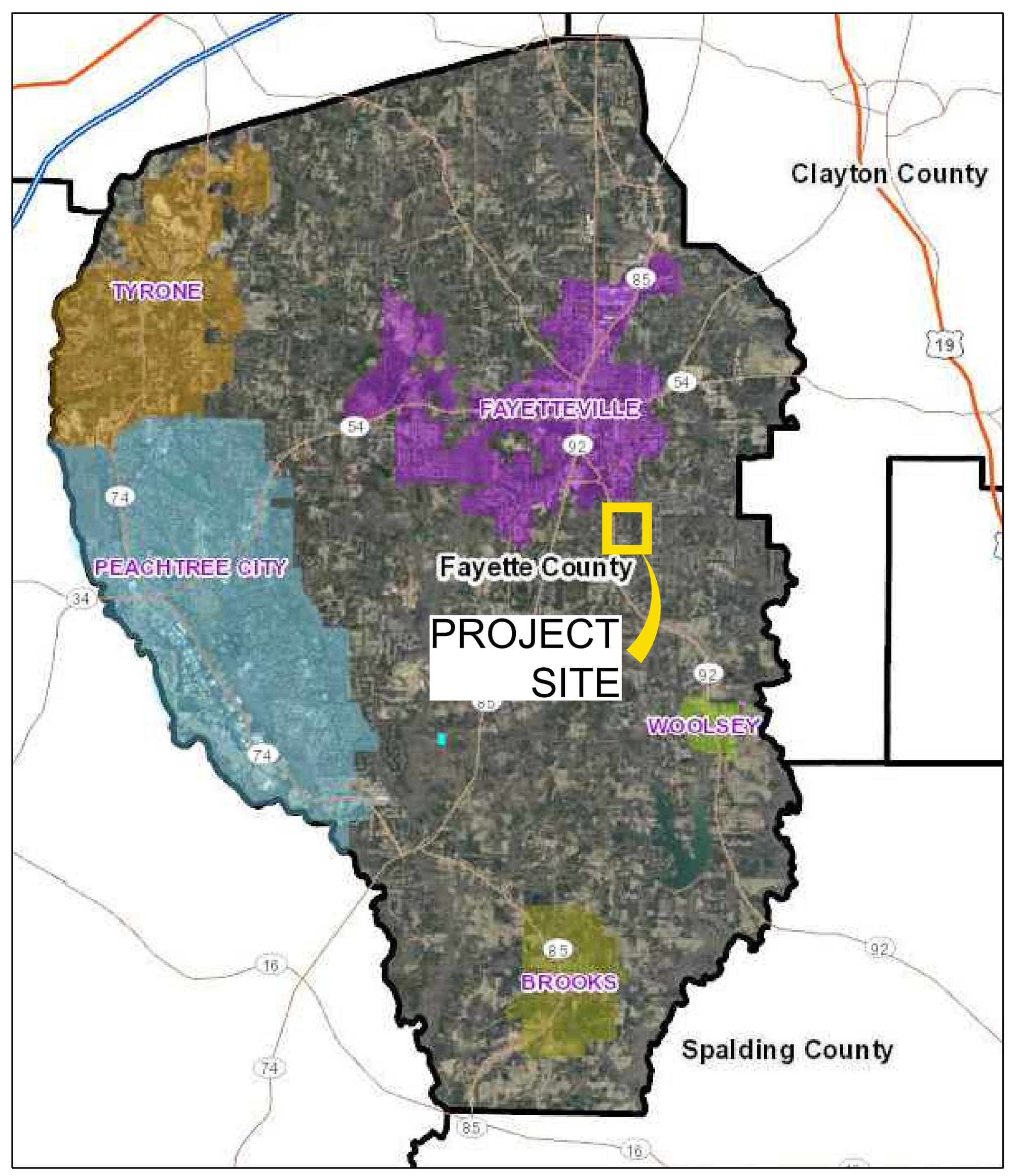
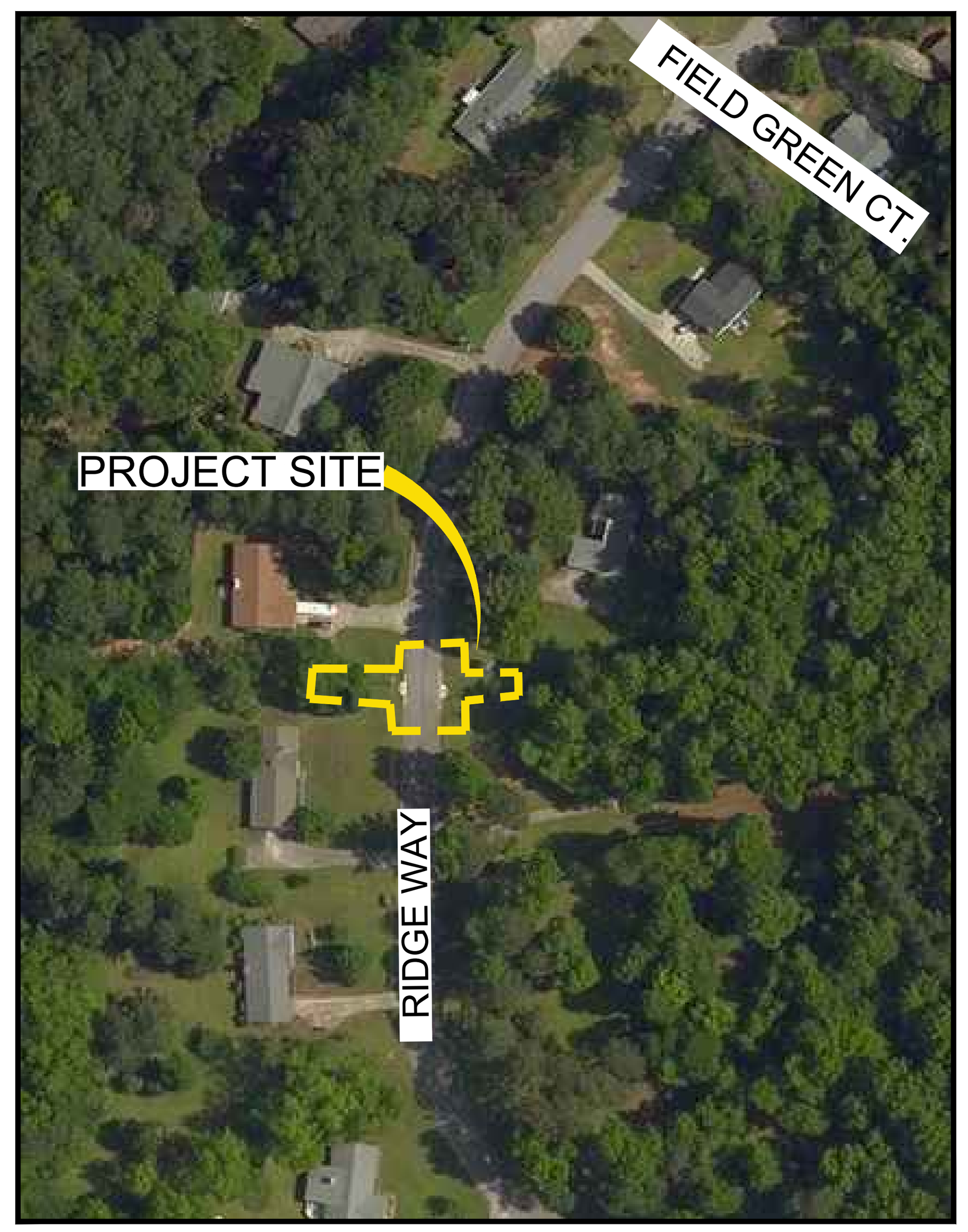
CIVIL CONSTRUCTION DOCUMENTS FOR

FAYETTE COUNTY
RIDGE WAY CULVERT REPLACEMENT

LAND LOT 57, 5TH DISTRICT, FAYETTE COUNTY, GA.
NOVEMBER 30, 2023
100% SUBMITTAL
FAYETTE COUNTY PROJECT NUMBER: 19SBM





VICINITY MAP
SCALE: NTS

CLIENT INFORMATION

OWNER CONTACT (24-HR):
PHIL MALLON
PHONE (770) 313-9855
publicworks@FayetteCountyGA.GOV

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

CIVIL DESIGN TEAM

PROJECT MANAGER:
DAVID MORGAN, PE
MORGAND@pondco.com

CIVIL ENGINEER:
DANELLE MURRAY, PE
MURRAYD.CTR@pondco.com

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 THE REMOVAL OF THE EXISTING DETERIORATED STORM DRAIN SYSTEM AT RIDGE WAY, INCLUDING A 36-INCH CMP EXTENDING 181 FT UPSTREAM AND A 42-INCH DIAMETER CMP CROSSING THE RIGHT OF WAY AND EXTENDING 121 FT DOWNSTREAM, AND REPLACEMENT IN KIND WITH RCP WITHIN THE RIGHT OF WAY AND HDPE PIPE ELSEWHERE.

PROJECT INFORMATION:

DISTURBED AREA:
0.41 ACRES

IMPERVIOUS SURFACE AREA:
0.04 ACRES

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

PROJECT SPECIFICATION:

UNLESS NOTED OTHERWISE IN THE INVITATION TO BID (ITB), THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION (GDOT) SYSTEMS, CURRENT EDITION ARE INCORPORATED BY REFERENCE INTO THE PROJECT MANUAL AND CONTRACT DOCUMENTS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GDOT SPECIFICATIONS, AND ALL PAY ITEMS SHALL BE MEASURED AND EVALUATED IN ACCORDANCE WITH THE SPECIFICATIONS. THEY SHALL SUPERSEDE ALL OTHER SPECIFICATIONS UNLESS MORE STRINGENT REQUIREMENTS ARE LISTED.

CIVIL INDEX

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 011643
EXPIRES : 06/03/2024

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

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DM	DATE: NOV 30, 2023
DWN BY: SK	CKD BY: DM
SOLICITATION NO.: -	
SUBMITTED BY: DM	CONTRACT NO.: -
FILE NAME:	FILE NUMBER: -
SIZE: 22" x 34"	PLOT SCALE:
PLOT DATE:	

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

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1193690

RIDGE WAY
CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

CIVIL COVER SHEET

SHEET IDENTIFICATION
G-000

ABBREVIATIONS

A	
AAP	ALARM ANNUNCIATOR PANEL AUTOMATIC
AARV	AIR RELEASE VALVE AUTOMATIC
AAV	AIR VENT
AB	ANCHOR BOLT
ABAN	ABANDON(ED)
ABRSV	ABRASIVE
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	ALTERNATING CURRENT
ACCMP	ASPHALT-COATED CORRUGATED METAL PIPE
ACP	ASBESTOS CEMENT PIPE
ADDM	ADDENDUM
ADH	ADHESIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AHD	AHEAD
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMT	AMOUNT
APRX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
AS	ALUM SOLUTION
ASPH	ASPHALT
ASSY	ASSEMBLY
AVE	AVENUE
A/C	AIR CONDITIONING
A/VV	AIR/VACUUM AIR VALVE
B	
BAF	BAFFLE
BCV	BALL CHECK VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BI	BLACK IRON
BITUM	BITUMINOUS OR BITUMASTIC
B/L	BASELINE
BLDG	BUILDING
BLK	BLOCK
BM	BENCH MARK
BOC	BACK OF CURB
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BSP	BLACK STEEL PIPE
BV	BALL VALVE
BW	BOTH WAYS
BWW	BACKWASH WATER
C	
CAP	CAPACITY
CA	COMPRESSED AIR
CAV	COMBINATION AIR VALVE
CB	CATCH BASIN
CCC	CHLORINE CONTACT CHAMBER
CE	CHLORINATED EFFLUENT
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CV	CHECK VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
C/L	CENTER LINE
CL2	CHLORINE GAS
CLF	CHAIN LINK FENCE
CLR	CLEAR OR CLEARANCE
CLVT	CULVERT
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CNR	CORNER
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COAG	COAGULANT
COL	COLUMN
COM	COMMON
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCT(ION)
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
COORD	COORDINATE
CO	COMPANY
CP	CONCRETE PIPE
CPA	CONCRETE PIPE ARCH
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONCENTRIC REDUCER
CS	CHLORINE SOLUTION
CSG	CASING
CTV	CABLE TELEVISION
CY	CUBIC YARD
CYL	CYLINDER
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
D	
DAT	DATUM
DBL	DOUBLE
DC	DIRECT CURRENT
DEMO	DEMOLITION
DEPT	DEPARTMENT
DESC	DESCRIPTION
DET	DETAIL
DF	DIESEL FUEL
DI	DUCTILE IRON
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DIR	DIRECTION
DMH	DROP MANHOLE
DN	DOWN
DR	DRAIN
DV	DIAPHRAGM VALVE
DW	DRIVEWAY
DWG	DRAWING
DWV	DRAIN, WASTE, AND VENT
E	
E	EAST
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EFF	EFFLUENT
E/L	EASEMENT LINE
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
EMER	EMERGENCY
EMC	ENCASE(MENT)
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPRF	EXPLOSION PROOF
EQUIP	EQUIPMENT
ER	ECCENTRIC REDUCER
ESTM	EASEMENT
EST	ESTIMATE(D)
EW	EACH WAY
EXC	EXCAVATE
EXP	EXPANSION
EXST	EXISTING
EXST	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
F	
FAB	FABRICATE(D)
FCA	FLANGED COUPLING ADAPTER
FB	FLAT BAR
FCV	FLOW-CONTROL VALVE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FILTER(ED) EFFLUENT
FHY	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH(ED)
FIN/FLR	FINISH FLOOR
FIN/GR	FINISH GRADE
FL	FLUORIDE
FLG	FLANGE(D)
FLL	FLOW LINE
FLTR	FILTER
FM	FORCE MAIN
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FUT	FUTURE
FV	FOOT VALVE
FW	FINISHED WATER
FWP	FACTORY WIRED PANEL
F/F	FACE TO FACE
G	
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GIP	GALVANIZED IRON PIPE
GJ	GROOVE JOINT
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GRTG	GRATING
GS	GALVANIZED STEEL
GSP	GALVANIZED STEEL PIPE
GSR	GROUND STORAGE RESERVOIR
GST	GROUND STORAGE TANK
GT	GROUT
GV	GATE VALVE
H	
HB	HOSE BIBB
HD	HEAVY-DUTY
HDPE	HIGH-DENSITY POLYETHYLENE
HDR	HYDRAULIC
HFA	HYDROFLUOSILICIC ACID
HGR	HANGER
HGT	HEIGHT
HNDRL	HAND RAIL
HOA	HAND-OFF-AUTO
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPA	HIGH PRESSURE AIR
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWL	HIGH WATER LEVEL
HWY	HIGWAY
HZ	HERTZ
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INF	INFLUENT
INT	INTERSECTION
INTR	INTERIOR
INV	INVERT
IP	IRON PIPE
IPS	INTERNATIONAL PIPE STANDARD
	INTERNAL RECYCLE
IR	IRRIGATION WATER
IW	
J	
JB	JUNCTION BOX
JT	JOINT
K	
K	KIP (1,000 LB)
KPL	KICK PLATE
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	
L	LEFT
LAB	LABORATORY
LAM	LAMINATE OR LAMINATION
LATL	LATERAL
LAV	LAVATORY
LEN	LEN LENGTH
LB	POUND(S)
LF	LINEAR FEET
LP	LIGHT POLE
LS	LIME SLURRY
LSS	LIME STABILIZED SLUDGE
LVR	LOUVER
LWL	LOW WATER LEVEL
M	
M	METER
MAINT	MAINTAIN OR MAINTENANCE
MAN	MANUAL(LY)
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
ME	MITERED END
MECH	MECHANICAL
MEG	MATCH EXISTING GRADE
MFR	MANUFACTURE(R)
MG	MILLION GALLONS
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MI	MILE(S)
MIN	MINIMUM, MINUTE(S)
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MIXED LIQUOR
MO	MASONRY OPENING
MON	MONUMENT
MPH	MILES PER HOUR
MPT	MALE PIPE THREAD
MS	MOTOR STARTER
MSP	MOTOR STARTER PANEL
MTD	MOUNTED
MV	MOTORIZED VALVE
MW	MANWAY
MWL	MEAN WATER LEVEL
MWP	MAXIMUM WORKING PRESSURE
N	
N	NORTH
NaOCl	SODIUM HYPOCHLORITE
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPF	NATIONAL PIPE THREAD
NPT	NATIONAL PIPE TAPER (THREAD)
NPW	NON-POTABLE WATER
NRS	NON-RISING SYSTEM
NTS	NOT TO SCALE
NW	NORTHWEST
N/A	NOT APPLICABLE
O	
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODP	OPEN DRIP PROOF
OF	OUTSIDE FACE
OH	OVER HEAD
OHW	OVER HEAD WIRE
OPP	OPPOSITE
OPT	OPTIONAL
OR	OFFICIAL RECORDS
OSY	OUTSIDE SCREW AND YOKE
O&M	OPERATION AND MAINTENANCE
P	
PA	PROCESS AIR
PC	POINT OF CURVE
PCM	PERMANENT CONTROL MONUMENT PLAIN END
PE	
PG	PRESSURE GAGE
PI	POINT OF INTERSECTION
PL	PLATE
P/L	PROPERTY LINE
PNV	PINCH VALVE
POB	POINT OF BEGINNING
POJ	PUSH-ON JOINT
POL	POLYMER
PP	POWER POLE
PPD	POUNDS PER DAY
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PRW	PROCESS WATER
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE POINT OF TANGENCY
PT	
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	POTABLE WATER
PWR	PWR POWER
Q	
Q	FLOW
QTY	QUANTITY
R	
RAD	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDCR	REDUCER
REBAR	REBAR REINFORCING STEEL REF
REF	REFERENCE
REINF	REINFORCE(D)(ING)(MENT)
REM	REMOVE(ABLE)
REQ'D	REQUIRED
RF	RAISED FACE
RJ	RESTRAINED JOINT
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RT	RIGHT
RVT	RIVETED
RW	RAW WATER
RWW	RAW WASTEWATER
R/W	RIGHT-OF-WAY
S	
S	SOUTH
SA	SAMPLE LINE
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SEFF	SECONDARY EFFLUENT
SF	SQUARE FOOT OR FEET
SHT	SHEET(ED)(ING)
SIG	SIGNAL
SIM	SIMILAR
SL	SLUDGE
SLV	SLEEVE
SM	SHEET METAL
SOLN	SOLUTION
SP	SOIL PIPE, SPACE(ING)
SPEC	SPECIFICATION
SPRT	SUPPORT
SQ	SQUARE
SS	SANITARY SEWER
SSE	SUBSTANDARD EFFLUENT
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STK	STAKE
STL	STEEL
STR	STRAIGHT
STRUCT	STRUCTURAL
SURF	SURFACE
SV	SOLENOID VALVE
SVCE	SERVICE
SVW	SERVICE WATER
SW	SOUTHWEST
SWD	SIDEWATER DEPTH
SWSH	SURFACE WASH
SYM	SYMBOL
SYMM	SYMMETRICAL
S/W	SIDEWALK
T	
TAN TB	TANGENT TOP OF BEAM
TBM	TEMPORARY BENCH MARK TEST
TB-xx	BORING-xx (e.g. TB-1)
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TE	TOTALLY ENCLOSED
TEFC	TOTALLY ENCLOSED FAN COOLED
TEL	TELEPHONE
TENV	TOTALLY ENCLOSED NON-VENTILATED
THD	THREAD(ED)
THK	THICK(NESS
TLM	TELEMETRY
TOB	TOP OF BANK
TOC	TOP OF CURB
TOS	TOE OF SLOPE
TOT	TOTAL
TP	TELEPHONE POLE
TS	THICKENED SLUDGE
TV	TELEVISION
TYP	TYPICAL
T&B	TOP AND BOTTOM
U	
UD	UNDERDRAIN
UG	UNDERGROUND
ULT	ULTIMATE
UN	UNION
UON	UNLESS OTHERWISE NOTED
UGE	UNDERGROUND ELECTRIC
UTC	UNDERGROUND TELEPHONE CABLE
UTIL	UTILITY
V	
V	VOLT(S)
V	VACUUM
VAC	VARIES
VAR	VERTICAL CURVE
VC	VITRIFIED CLAY PIPE
VCP	VELOCITY
VEL	VERTICAL
VERT	VARIABLE FREQUENCY DRIVE
VFD	VOLUME
VOL	
W	
W	WATT, WEST
W	WASTE ACTIVATED SLUDGE WALL
WAS	CLEAN OUT
WCO	WIDE FLANGE
WF	WALL HYDRANT
WH	WATER LINE
WL	WATER MAIN
WM	WATER PROOF(ING),WORKING POINT
WP	WORKING PRESSURE
WPR	WATER SURFACE
WS	WELDED STEEL PIPE
WSP	WEIGHT
WT	WATER TREATMENT PLANT
WTP	WASH WATER
WW	WELDED WIRE FABRIC
WWF	WELDED WIRE MESH
WWM	WASTEWATER TREATMENT PLANT
WWTP	WITH
W/	W/O WITHOUT
W/O	
X XFER	TRANSFER
Y	
YD	YD YARD(S)
YH	YARD HYDRANT
YR	YEAR(S)

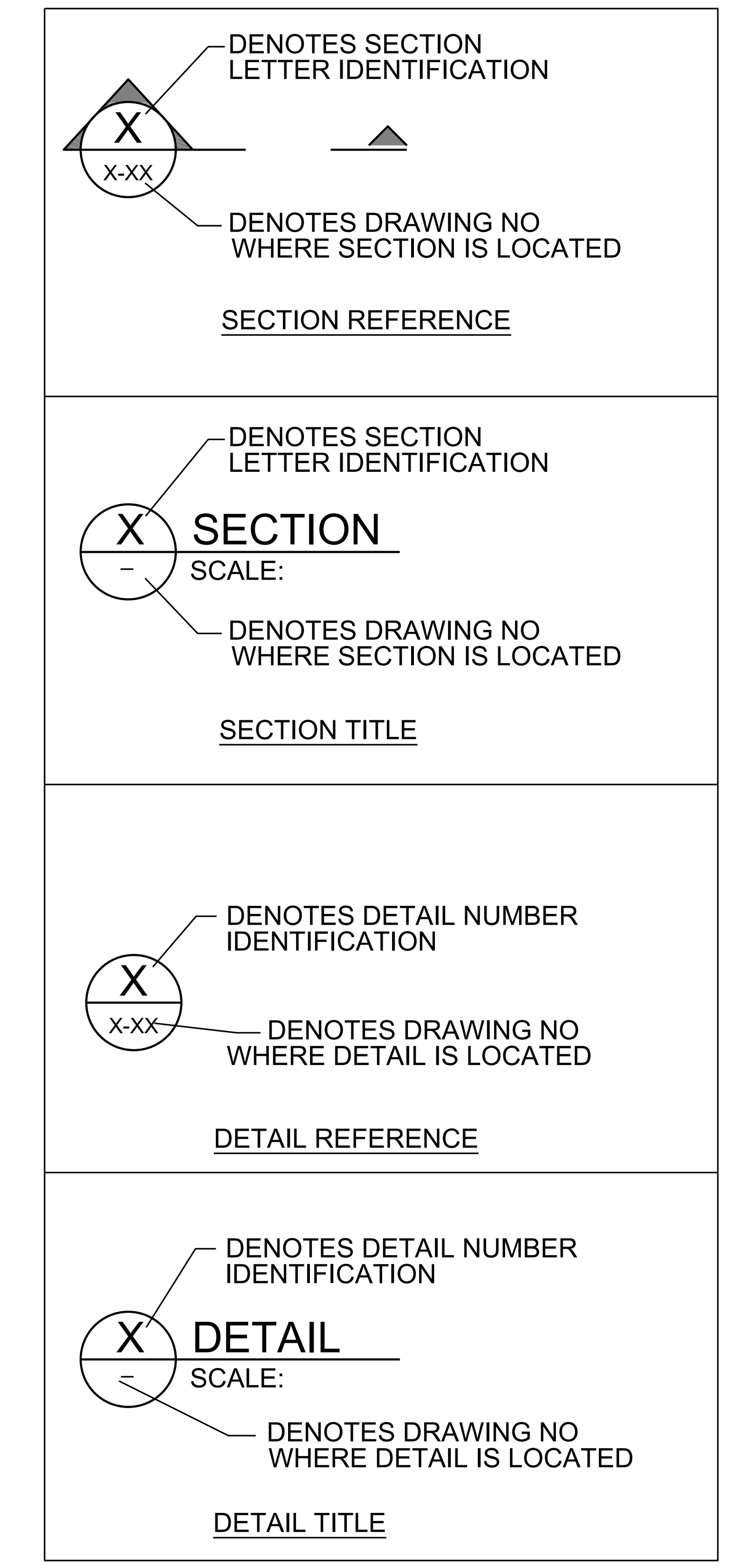
CIVIL LEGEND

PROPOSED ITEM	DESCRIPTION
+ 267.54	SPOT ELEVATION
— — — —C/L— — — —C/L—	CONSTRUCTION LIMITS
——W——W——	DOMESTIC WATER
——FW——FW——	FIRE WATER
	VALVE
	FIRE HYDRANT
——SS——SS——	SANITARY SEWER
S	SANITARY SEWER MANHOLE
CO	SANITARY SEWER CLEANOUT
	STORM DRAIN
	DROP INLET
	HEADWALL
— x ———— x —	FENCE
——40——	PROPOSED CONTOUR MAJOR
——42——	PROPOSED CONTOUR MINOR
	NORTH ARROW
——TPF——	TREE PROTECTION FENCE
——??——	UNKNOWN UTILITY
——E——	EXISTING ELECTRICAL OVERHEAD
——CM——	EXISTING COMMUNICATION LINE OVERHEAD
	GUARD RAIL
	BENCHMARK

HATCHING LEGEND

	CAST-IN-PLACE CONCRETE
	ASPHALT PAVEMENT SURFACE
	HEAVY DUTY GRAVEL
	EARTH
	GROUT
	RIP RAP

REFERENCE SYMBOLS



FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH		DATE: NOV 30, 2023	
DWN BY: ABC	CKD BY: FAH	SOLICITATION NO.: -	
SUBMITTED BY: FAH		CONTRACT NO.: -	
FILE NAME:		FILE NUMBER: -	
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140 STONEWALL AVE W, SUITE 203,
FAYETTEVILLE, GA. 30214

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1193690

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

LEGEND AND ABBREVIATIONS

SHEET IDENTIFICATION
C-001

100% DESIGN SUBMITTAL

GENERAL NOTES

1. BENCHMARK FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEET V-001.
2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND FAYETTE COUNTY STANDARDS. WHERE CONFLICTS OR OMISSIONS EXIST, FAYETTE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
3. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
4. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND FAYETTE COUNTY DEVELOPMENT REGULATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE, SHALL BE FULLY BORNE BY THE CONTRACTOR.
6. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
7. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING TO BE HELD BETWEEN FAYETTE COUNTY, UTILITIES, ENGINEER OF RECORD, CONTRACTOR AND ANY SUBCONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING LANDSCAPE SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS HOURS BEFORE REQUIRED INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO PRESSURE TESTING, OR FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE. THE CONTRACTOR IS REQUIRED TO NOTIFY 48 HOURS TO FAYETTE COUNTY FOR PROOF ROLL OF GAB PLACEMENT.
10. ALL CONTRACTORS, FAYETTE COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
12. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE. RECORD DRAWINGS TO BE CERTIFIED.
13. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WERE TAKEN FROM SURVEY PROVIDED BY: GEOSURVEY, LTD., DATED: APRIL 09, 2019.
14. ANY CONSTRUCTION BEYOND THE RIGHT-OF-WAY AND/OR ESTABLISHED EASEMENT LINES, ONTO ADJACENT PROPERTY, REQUIRES ADJACENT PROPERTY OWNER PERMISSION AND NECESSARY EASEMENTS PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR IS TO VERIFY SUCH EASEMENTS AND PERMISSIONS PRIOR TO DISTURBING ANY OFF-SITE PROPERTY.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
16. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
17. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, PRESENCE OF ROCK, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT THE PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING SITE CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
18. NEITHER OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR ERRORS OR MISINTERPRETATIONS RESULTING FROM USE OF INCOMPLETE SETS OF BIDDING DOCUMENTS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF THESE ITEMS TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
4. THE CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).
5. THE CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE FAYETTE COUNTY REGULATIONS.
6. THE CONTRACTOR SHALL REMOVE UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
7. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.
8. THE DEMOLITION SHALL BE PHASED TO PROVIDE AT LEAST ONE 12 FOOT LANE OF TRAFFIC AT ALL TIMES.
9. CONTRACTOR TO FOLLOW ALL APPLICABLE OSHA STANDARDS FOR ALL EXCAVATIONS.

FAYETTE COUNTY WATER SYSTEM NOTES

1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS.
2. ALL MATERIALS SHALL CONFORM TO FAYETTE COUNTY DEVELOPMENT SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE FAYETTE COUNTY WATER SYSTEM SUBMITTALS ON ALL PIPE AND MATERIALS USED FOR APPROVAL. ANY WORK DONE BY THE CONTRACTOR SHALL BE AT HIS OWN RISK UNTIL REVIEW AND APPROVAL OF THESE SUBMITTALS ARE COMPLETE.
3. THE CONTRACTOR SHALL NOTIFY THE FAYETTE COUNTY WATER SYSTEM 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE.
4. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE FAYETTE COUNTY WATER SYSTEM BEFORE ANY WORK IS HIDDEN FROM VIEW.
5. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING THE LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE HIS WORK WITH EXISTING UTILITIES WHICH CONFLICT WITH HIS WORK. CONTRACTOR SHALL MAINTAIN SUCH UTILITIES SHOWN OR NOT SHOWN ON THIS PLAN.
7. ALL VALVE BOXES ARE TO HAVE COLLARS AND MARKERS AS REQUIRED BY THE FAYETTE COUNTY WATER SYSTEM DEPARTMENT.
8. WATER LINES SHALL HAVE A MINIMUM COVER OF 4 FEET FROM FINISHED GRADE.
9. MINIMUM HORIZONTAL DISTANCE BETWEEN WATER LINES AND SEWER SHALL BE 10 FEET AND VERTICAL DISTANCE MINIMUM OF 2 FEET.
10. ALL OTHER UNDERGROUND UTILITIES OR STRUCTURES SHALL BE A MINIMUM HORIZONTAL AND VERTICAL DISTANCE OF 2 FEET FROM WATER LINES.
11. WATER LINES SHALL BE LOCATED 7'-0" FROM THE BACK OF THE CURB OR PER AS APPROVED UTILITY PLACEMENT DETAIL.
12. ALL WATER SERVICES SHALL BE MARKED WITH A SAWED "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.
16.

ESPC NOTES

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

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE NOTES

1. COMPACT ALL UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) AND TO 95% WITHIN OTHER AREAS.
2. If ORGANIC SOILS AS ENCOUNTERED BELOW UTILITY TRENCHES, THE ORGANIC SOILS WILL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER. SUITABLE MATERIAL SHALL BE COMPACTED TO NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
3. STABILIZED SUBGRADE TO MEET SPECIFIED REQUIREMENTS.
4. ASPHALTIC CONCRETE TO GDOT STANDARD SPECIFICATION (LATEST EDITION) SECTION 916.1 AND FAYETTE COUNTY, WHICHEVER IS GREATER.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
6. ALL CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3000 PSI CONCRETE.
7. ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED USING MEASURES THAT MATCH THE EXISTING VEGETATIVE CONDITIONS OF THE SITE. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PERMANENT GRASSING.
8. THE REINFORCED CONCRETE PIPE SHALL BE CLASS III WITH WALL THICKNESS "B" CONFORMING TO ASTM C - 76 OR AWWA 302 -74 AND GASKETS SHALL BE IN ACCORDANCE WITH ASTM C - 443 OR ASTM D - 412.
9. ALL PIPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.
10. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORM WATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS; AND STORM WATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS. THE CONTRACTOR SHALL SUBMIT FOR WATER USE PERMITS IF REQUIRED FOR DEWATERING ACTIVITIES.
11. ALL PIPES SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE ELEVATIONS AND ALIGNMENTS.
12. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRASS OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AS NOTED ON PLANS, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFF-SITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER SHALL BE STAKED.
13. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY AND SEDIMENT INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AND SILT FENCES AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY AND SEDIMENT BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS.
14. EXISTING RUNOFF COEFFICIENT FOR THE PROJECT: 70. PROPOSED RUNOFF COEFFICIENT FOR THE PROJECT: 70.
15. ALL CONCRETE STRUCTURES SHOWN ARE PRE-CAST FROM AN APPROVED VENDOR. CAST-IN-PLACE METHODS MAY BE USED FOR STRUCTURE COMPONENTS WHERE APPLICABLE FOR APPROVAL.

OTHER UTILITY INFORMATION

1. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO LOCATE THEIR FACILITIES IN THE FIELD FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
2. DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE TWENTY-FIVE (25) FEET ON EACH SIDE OF ANY PERPENDICULAR CROSSING OF METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPELINE AND FOR LOCATIONS PARALLEL TO AND WITHIN TEN FEET OF METALLIC GAS MAINS OR OTHER CATHODICALLY PROTECTED PIPE AND THROUGH THE AREA OF INFLUENCE OF CATHODIC PROTECTION ANODE BED.

SPILL CONTROL NOTES:

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

TRAFFIC CONTROL NOTES

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

GEORGIA REGISTERED No. 27428 PROFESSIONAL ENGINEER DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH | DATE: NOV 30, 2023
DWN BY: ABC | CKD BY: FAH | SOLICITATION NO.: -
SUBMITTED BY: FAH | CONTRACT NO.: -
FILE NAME: | FILE NUMBER: -
SIZE: 22" x 34" | PLOT SCALE: | PLOT DATE:

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

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1193690

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

CIVIL NOTES

SHEET IDENTIFICATION
C-002

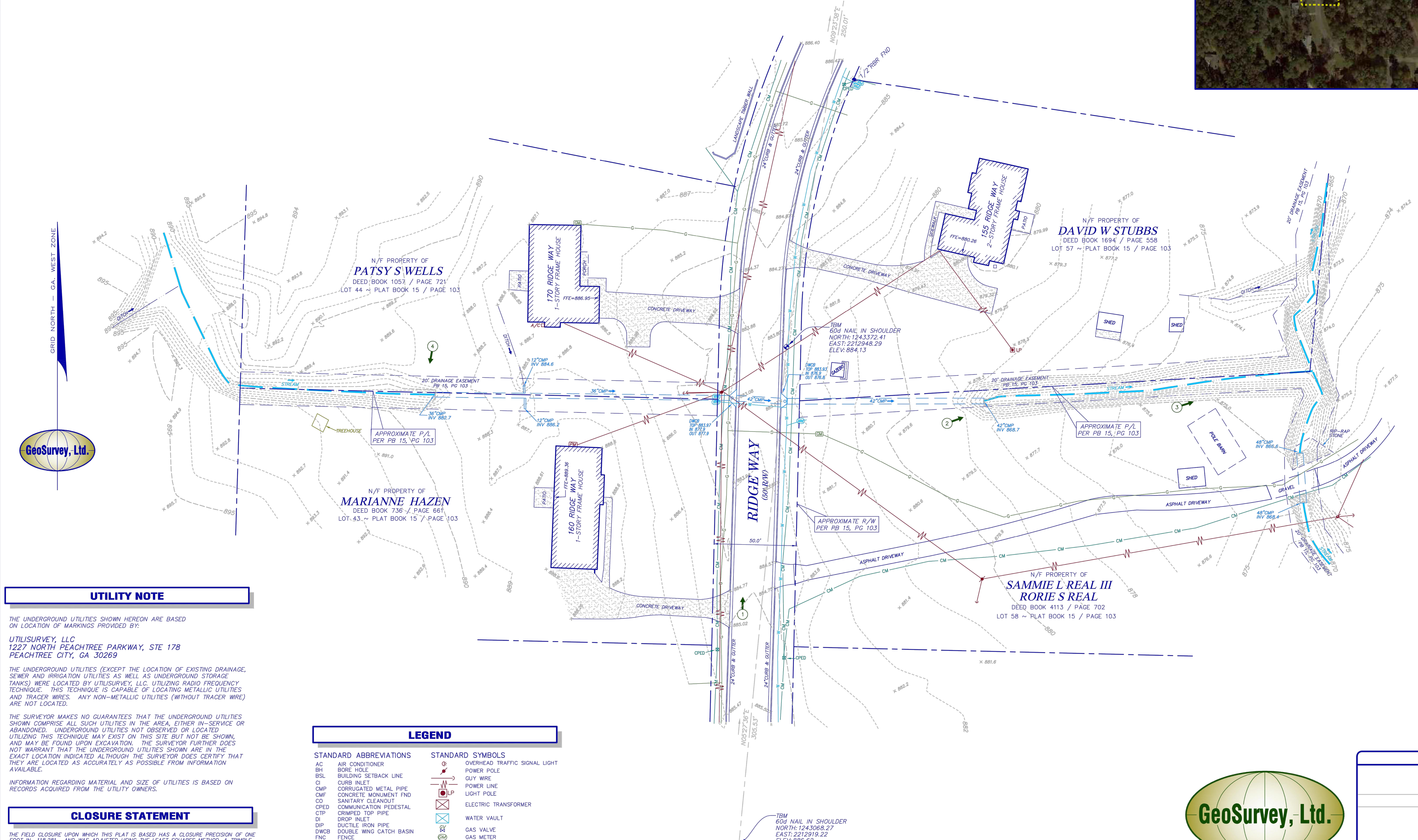
100% DESIGN SUBMITTAL

SITE PHOTOGRAPHS

AERIAL IMAGE

VICINITY MAP

SITE LOCATION – LATITUDE: 33° 25' 05" LONGITUDE: 84° 26' 27"



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.

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.

PLEASE NOTE: GEOSURVEY, LTD., ASSUMES NO LIABILITY REGARDING THE ACCURACY OR LOCATION OF PROPERTY LINES SHOWN HEREON. PROPERTY LINE INFORMATION IS SHOWN AS APPROXIMATE BASED ON SURVEY REFERENCE 1. NO BOUNDARY SURVEY WAS PERFORMED BY GEOSURVEY, LTD.

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 13113C0112E, 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.

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.

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

SURVEY REFERENCES

1> FINAL PLAT OF PARK HILL, PHASE II RECORDED IN PLAT BOOK 15, PAGE 103.

UTILITY NOTE

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

UTILISURVEY, LLC
1227 NORTH PEACHTREE PARKWAY, STE 178
PEACHTREE CITY, GA 30269

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC. UTILIZING RADIO FREQUENCY TECHNIQUE. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON-METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

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 118,281, AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE S-6 TOTAL STATION AND TRIMBLE TSC-3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

IF YOU DIG

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

LEGEND

STANDARD ABBREVIATIONS	
AC	AIR CONDITIONER
BH	BORE HOLE
BSL	BUILDING SETBACK LINE
CI	CURB INLET
CMP	CORRUGATED METAL PIPE
CMF	CONCRETE MONUMENT FND
CO	SANITARY CLEANOUT
CPED	COMMUNICATION PEDESTAL
CTP	CRIMPED TOP PIPE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWCB	DOUBLE WING CATCH BASIN
FNC	FENCE
FND	FOUND
GM	GAS METER
INV	INVERT
JB	JUNCTION BOX
MH	MANHOLE
OCS	OUTLET CONTROL STRUCTURE
OTP	OPEN TOP PIPE
PM	POWER METER
PKS	PK NAIL SET
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
RCP	REINFORCED CONCRETE PIPE
RBR	IRON REINFORCING BAR
RBS	5/8"RBR SET CAPPED LSF 621
SS	SANITARY SEWER
SWCB	SINGLE WING CATCH BASIN
TRANS	ELECTRIC TRANSFORMER

STANDARD SYMBOLS

- OVERHEAD TRAFFIC SIGNAL LIGHT
- POWER POLE
- GUY WIRE
- POWER LINE
- LP — LIGHT POLE
- ELECTRIC TRANSFORMER
- WATER VAULT
- GV — GAS VALVE
- GM — GAS METER
- WV — WATER VALVE
- WM — WATER METER
- FIRE HYDRANT
- E — UNDERGROUND ELECTRIC LINE
- G — UNDERGROUND GAS LINE
- CM — UNDERGROUND COMMUNICATION LINE
- W — UNDERGROUND WATER LINE
- 1 — PHOTO POSITION INDICATOR
- XX — REGULAR PARKING SPACE COUNT
- HANDICAP PARKING SPACE
- TREE POSITION INDICATOR
- SIGN

GRAPHIC SCALE

SCALE: 1" = 40'
0 20' 40' 80' 120'

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

GEORGIA REGISTERED LAND SURVEYOR NO. 2840 BRADLEY D. CASH

TOPOGRAPHIC SURVEY

Ridge Way Stream Crossing

FOR

Fayette County

GS JOB NO: 20196044	DRAWING SCALE: 1"= 30'	SURVEY DATE: 02-19-2019
FIELD WORK: CM	CITY: UNINCORPORATED	REVISIONS
PROJ MGR: BDC	COUNTY: FAYETTE STATE: GA	No. / Date / Description
REVIEWED: JRC	LAND LOT: 57	
DWG FILE: 20196044-01.dwg	DISTRICT: 5TH	

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: | DATE: NOV 30, 2023
DWN BY: | CKD BY: | SOLICITATION NO.: -
SUBMITTED BY: | CONTRACT NO.: -
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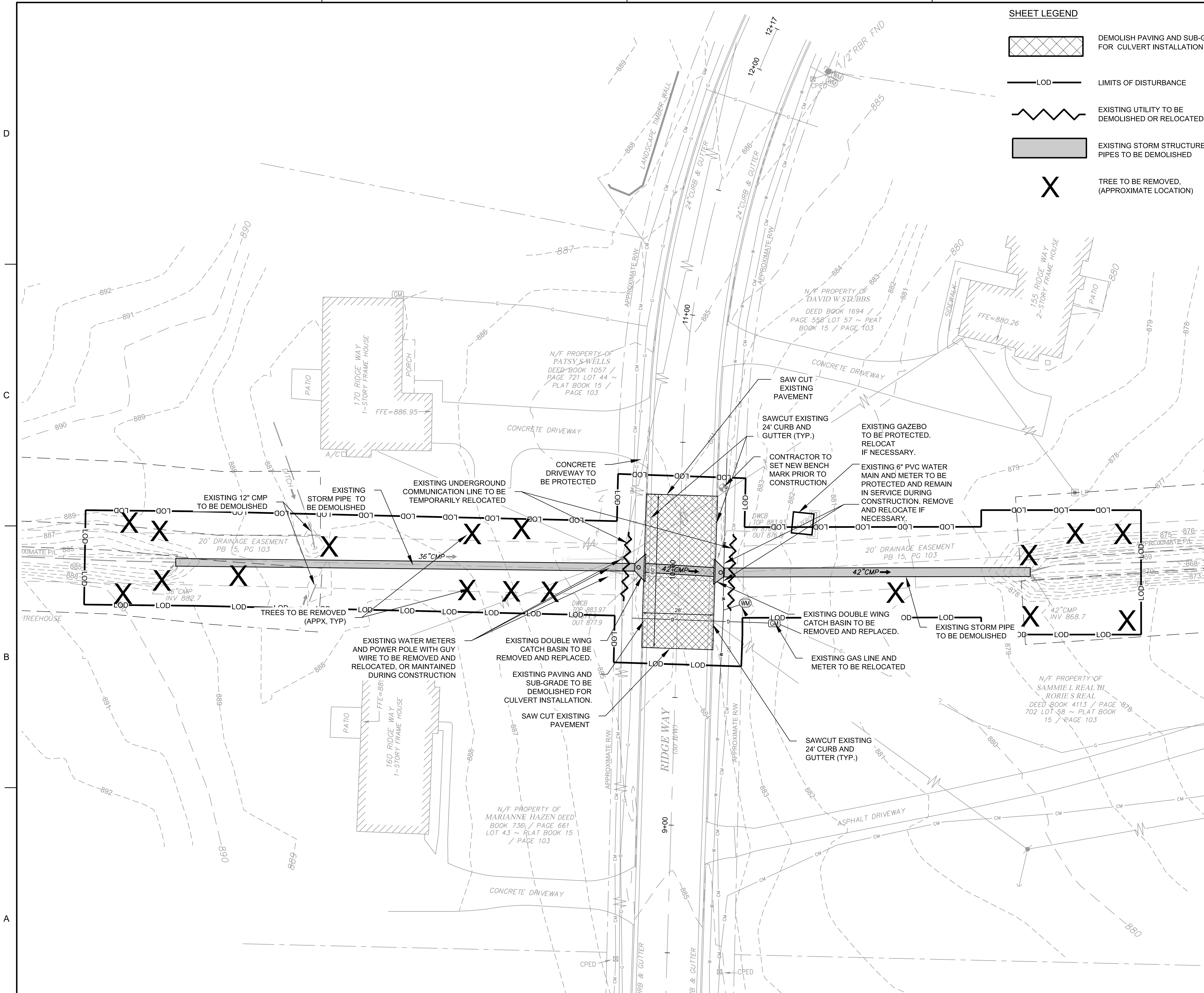
POND PROJECT NO. 1193690

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

TOPOGRAPHIC SURVEY (BY OTHERS)

SHEET IDENTIFICATION
V-001



A1 CIVIL SITE DEMOLITION PLAN

SCALE: 1" = 20'

0 10' 20' 40' 60'

SHEET LEGEND

- DEMOLISH PAVING AND SUB-GRADE FOR CULVERT INSTALLATION
- LOD — LIMITS OF DISTURBANCE
- EXISTING UTILITY TO BE DEMOLISHED OR RELOCATED
- EXISTING STORM STRUCTURE AND PIPES TO BE DEMOLISHED
- X — TREE TO BE REMOVED, (APPROXIMATE LOCATION)

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. CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE ATLEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.
4. ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS PLACED.
5. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. RECORD DRAWINGS TO BE CERTIFIED.
6. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
7. CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
8. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, DRIVEWAYS, ASPHALT, FENCING OR EXISTING ROADWAY OUTSIDE OF PAVING LIMITS DURING CONSTRUCTION.
9. ANY DAMAGED ASPHALT OUTSIDE OF THE RESURFACE OR PAVING LIMITS SHOWN ON PLANS WILL REQUIRE TO BE MILLED AND RESURFACED.
10. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO PROTECT OR RELOCATE THE EXISTING INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO GAS, COMMUNICATIONS, POWER, AND WATER.
11. CULVERT STREAM BEDDING MATERIAL, WHICH IS ALLOWED BY FAYETTE COUNTY, TO BE EMBED NATURALLY WITH FLOW.
12. LIMITS OF DISTURBANCE TO BE CLEARED IN ITS ENTIRETY.

DEMOLITION NOTES:

A. PROTECTION:
1. PERFORM DEMOLITION SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN.
2. PROTECT NEW OR EXISTING WORK FROM DAMAGE DURING DEMOLITION OPERATIONS.
3. PROTECT EXISTING SITE APPURTENANCES AND LANDSCAPING TO REMAIN.
4. 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.
5. CONTRACTOR TO ESTABLISH TEMPORARY BENCHMARKS ON SITE AT LOCATIONS THAT WILL REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
6. CONTRACTOR TO COORDINATE WITH FAYETTE COUNTY AND UTILITY COMPANIES ON THE RELOCATION OF UTILITIES.
7. CONTRACTOR TO MAINTAIN ACCESS TO AFFECTED PROPERTIES AT ALL TIMES.
8. ANY DAMAGED ASPHALT OUTSIDE OF THE RESURFACE OR PAVING LIMITS SHOWN ON PLANS WILL REQUIRE TO BE MILLED AND RESURFACED.

B. REMOVAL & DISPOSAL OF DEMOLISHED MATERIALS:
1. 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.
2. CONSTRUCTION OR ITEMS INDICATED TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
3. PROMPTLY DISPOSE OF MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DO NOT ALLOW MATERIALS TO ACCUMULATED ON SITE.
4. TRANSPORT MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
5. 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.
6. DO NOT BURN REMOVED MATERIALS ON PROJECT SITE.
7. CONTRACTOR TO COORDINATE THE LOCATION OF ANY MATERIAL LAYDOWN AREAS WITH FAYETTE COUNTY.

C. POLLUTION CONTROLS:
1. CONTROL THE SPREAD OF DUST AND DIRT WITH PRACTICAL MEANS.
2. OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS.
3. DO NOT ALLOW WATER USAGE THAT RESULTS IN FREEZING OR FLOODING.
4. DO NOT ALLOW ADJACENT IMPROVEMENTS TO REMAIN TO BECOME SOILED BY DEMOLITION OPERATIONS.

D. CLEANING:
1. REMOVE TOOLS AND EQUIPMENT. DISPOSE OF SCRAP.
2. LEAVE EXTERIOR AREAS FREE OF DEBRIS.
3. CLEAN SOIL, SMUDGES, AND DUST FROM SURFACES TO REMAIN.
4. RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF DEMOLITION.

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

FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DATE: NOV 30, 2023 | SOLICITATION NO.: -
DESIGNED BY: FAH | DWN BY: ABC | CKD BY: FAH | CONTRACT NO.: -
SUBMITTED BY: FAH | FILE NUMBER: | FILE NAME: | PLOT DATE:
SIZE: 22" x 34" | PLOT SCALE:

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

POND

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA, 30214

CIVIL SITE DEMOLITION PLAN

SHEET IDENTIFICATION
CD101

100% DESIGN SUBMITTAL

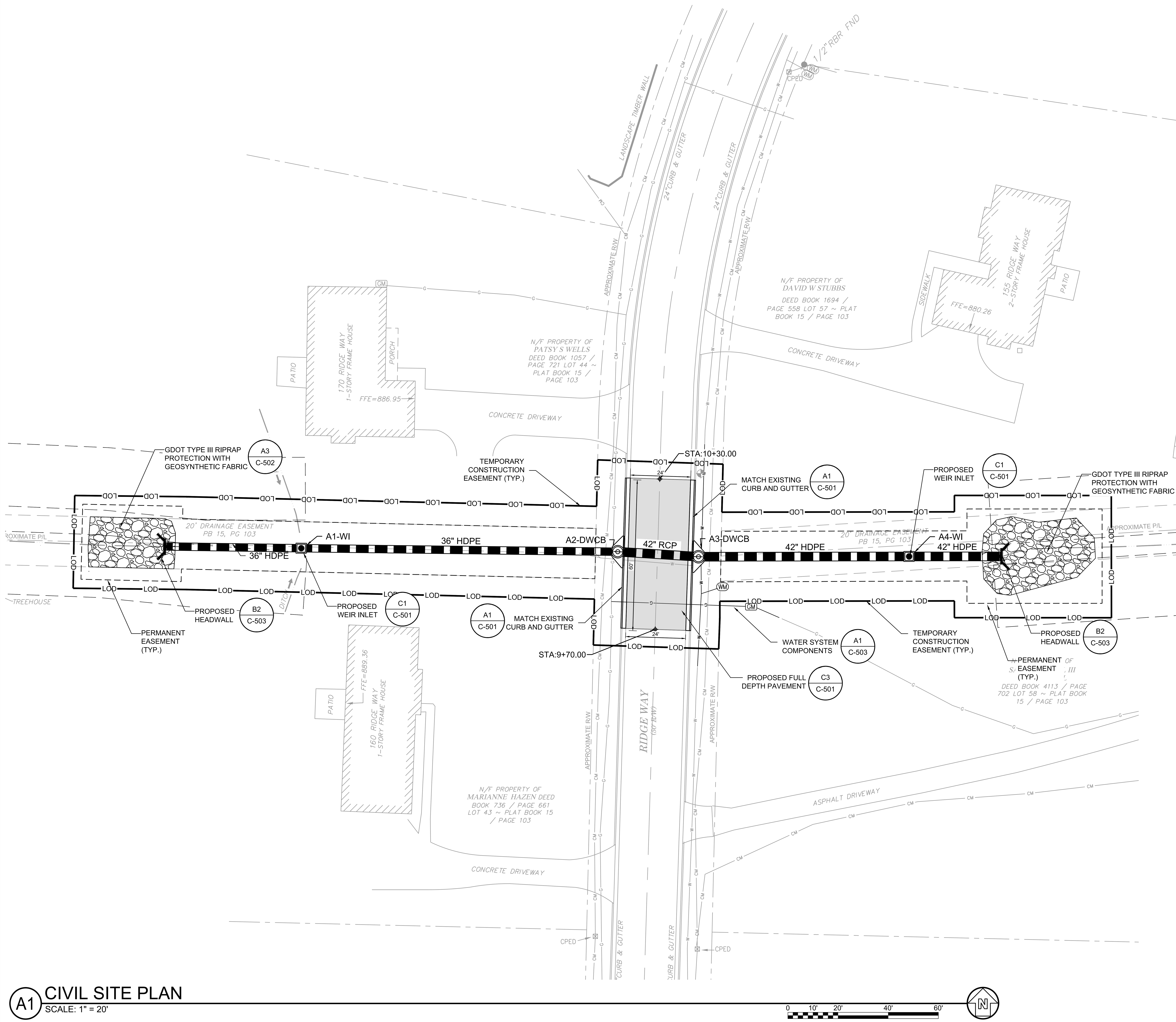
GENERAL SHEET NOTES

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. CONTRACTOR TO COORDINATE LANE CLOSURES WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.
4. ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE AND ENGINEER OR OWNER IN CONJUNCTION WITH THE CONTRACTOR'S REPRESENTATIVE BEFORE CONCRETE IS PLACED.
5. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. AS-BUILT DRAWING TO BE CERTIFIED.
6. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
7. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTION.
8. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION, AS WELL AS REPLACEMENT AND RELOCATION OF MAILBOXES.

SHEET LEGEND

FULL DEPTH ASPHALT PAVING

RIPRAP OUTLET PROTECTION



A1 CIVIL SITE PLAN
SCALE: 1" = 20'

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 011643
EXPIRES : 06/03/2024

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

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH
DWN BY: ABC
CKD BY: FAH
SUBMITTED BY: FAH
FILE NAME:
SIZE: 22" x 34"
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SOLICITATION NO.: -
CONTRACT NO.: -
FILE NUMBER: -
PLOT DATE:

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

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1193690

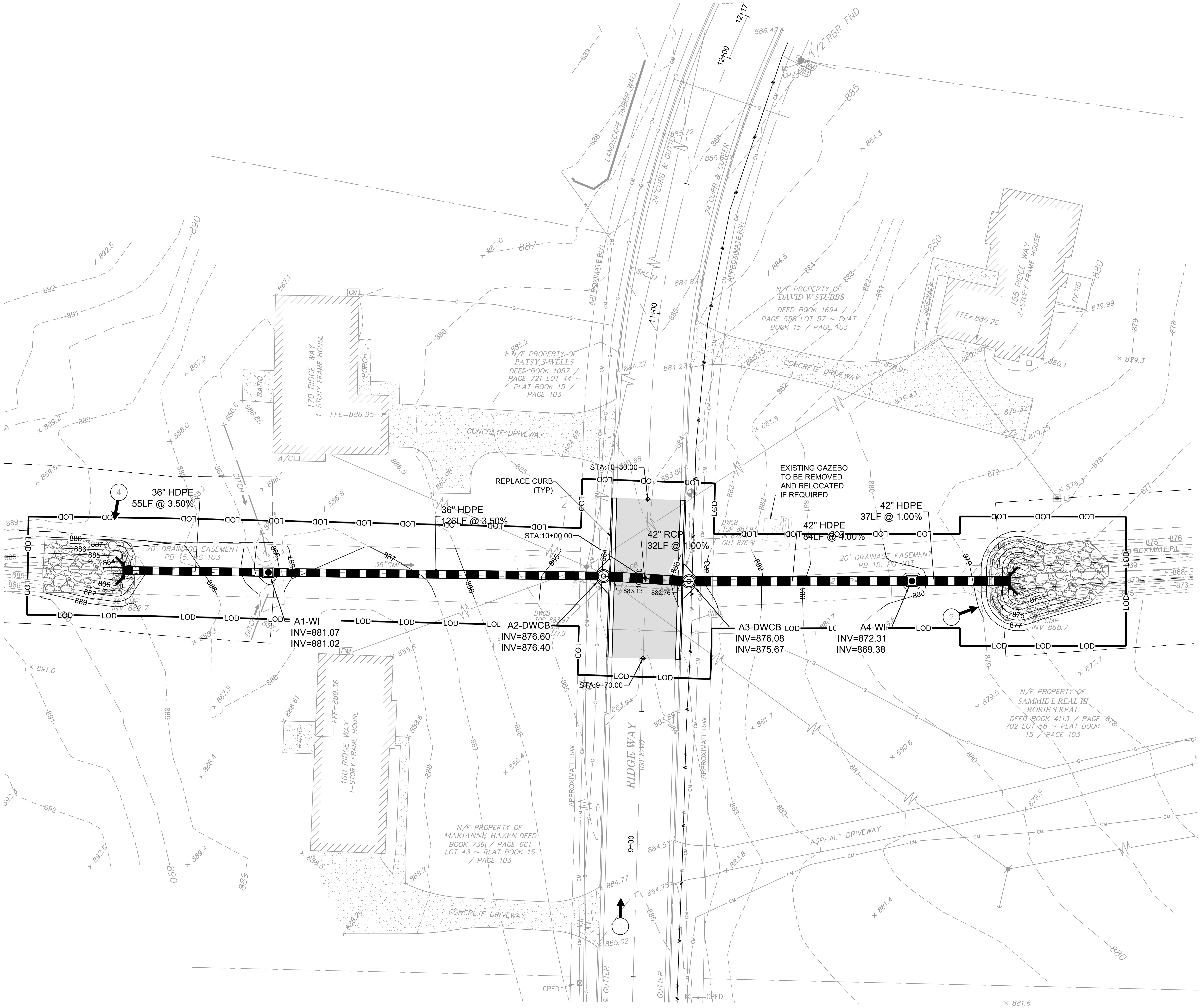
RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

CIVIL SITE PLAN

SHEET IDENTIFICATION
CS101

100% DESIGN SUBMITTAL

FILE NAME: X:\FY19\1193690\TO07 - Ridge Way 170 Culvert Replacement\04_CAD_BIM\04.02_CAD\CS-101_1.dwg PLOTTED: Thursday, November 30, 2023



GENERAL SHEET NOTES:

1. CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.
2. ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE AND ENGINEER OR OWNER IN CONJUNCTION WITH THE CONTRACTOR'S REPRESENTATIVE BEFORE CONCRETE IS PLACED.
3. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. AS-BUILT TO BE CERTIFIED.
4. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, DRIVEWAYS, ASPHALT, FENCING OR ROADWAY DURING CONSTRUCTION.
5. CONTRACTOR TO PROVIDE BYPASS PUMPING PLAN TO BE APPROVED BY THE ENGINEER AND FAYETTE COUNTY WATER SYSTEM PRIOR TO CONSTRUCTION.
6. ALL DAMAGED, DEMOLISHED, OR REMOVED SOD TO BE REPLACED IN-KIND WITH SOD.

GRADING NOTES:

1. ALL RIPRAP TO BE GDOT TYPE 3. RIPRAP TO BE PLACED AT CULVERT OUTLET FOR SCOUR PROTECTION PER DETAIL .
2. ROAD TO BE GRADED FROM CROWN TO EDGE OF ASPHALT AT ¼" PER 1'
3. MINIMUM SHOULDER WIDTH TO BE PROVIDED IS 6'. SHOULDER SHALL BE GRADED AT ½" PER 1'.
4. ROAD CROSS SECTION BETWEEN ROAD STATIONS -16.31 AND 16.29 SHALL COMPLY WITH FAYETTE COUNTY STANDARDS (SEE C1/SHEET C-501).
5. MAXIMUM SLOPES ALLOWED WITHIN FAYETTE COUNTY RIGHT-OF-WAY SHALL BE 2:1. PROVIDE 3:1 SLOPES WHERE POSSIBLE.
6. HDPE PIPE TO BE PER GDOT SPECIFICATION.

WALL ELEVATION:
TW = TOP OF RETAINING WALL
GR = GROUND ELEVATION

SHEET LEGEND

LOD	LIMIT OF DISTURBANCE / TEMPORARY EASEMENT
	RIPRAP OUTLET PROTECTION
	25 FOOT STATE BUFFER

A1 CIVIL GRADING AND DRAINAGE PLAN
SCALE: 1" = 20'

0 10' 20' 40' 60'

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

FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH | DWN BY: ABC | CKD BY: FAH | SUBMITTED BY: FAH | DATE: NOV 30, 2023 | SOLICITATION NO.: - | CONTRACT NO.: - | FILE NAME: | FILE NUMBER: - | SIZE: 22" X 34" | PLOT SCALE: | PLOT DATE:

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

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1190369

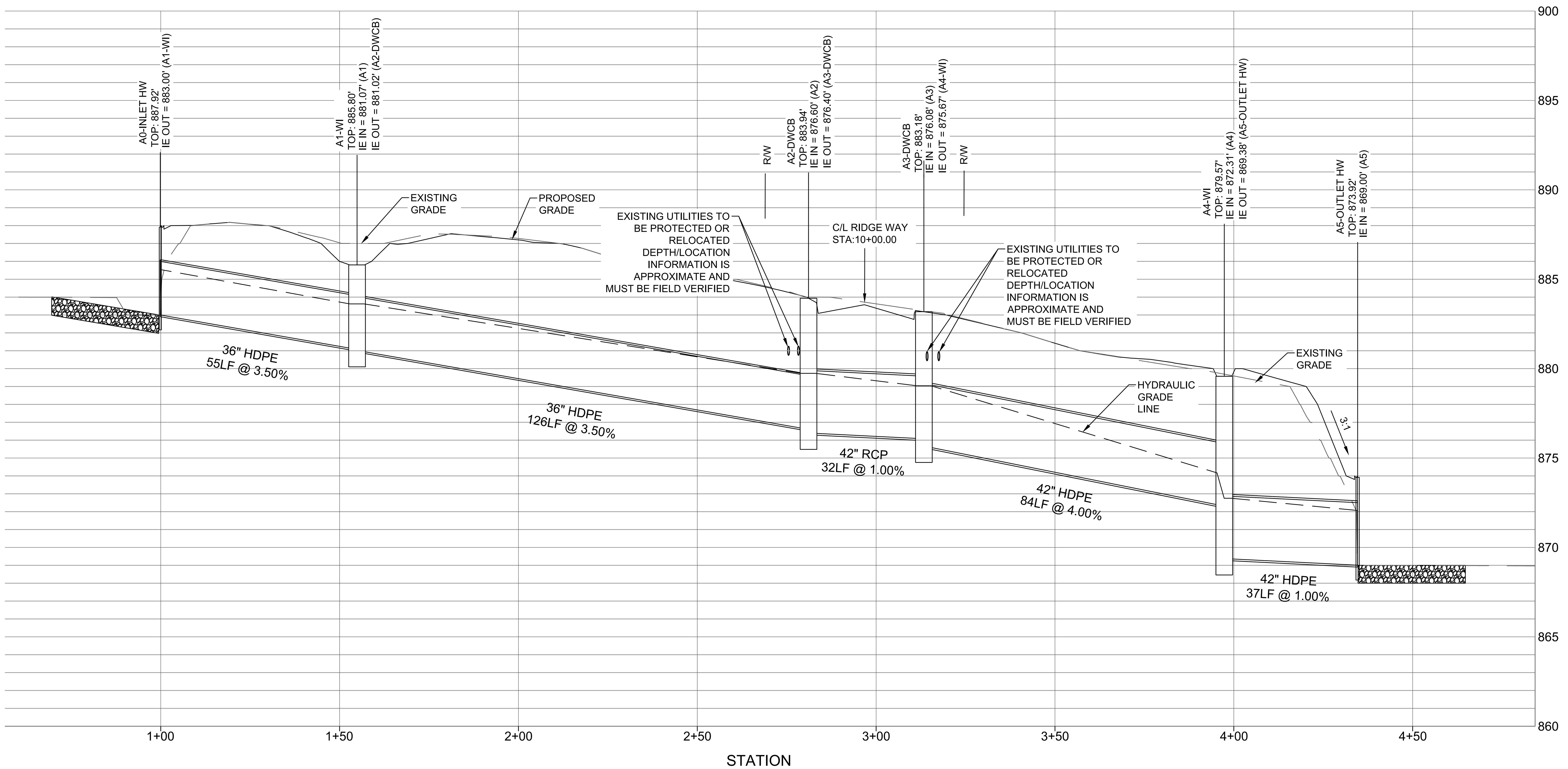
RIDGE WAY
CULVERT REPLACEMENT
FAYETTE COUNTY, GA, 30214

CIVIL GRADING AND DRAINAGE PLAN

SHEET IDENTIFICATION
CG101

100% DESIGN SUBMITTAL

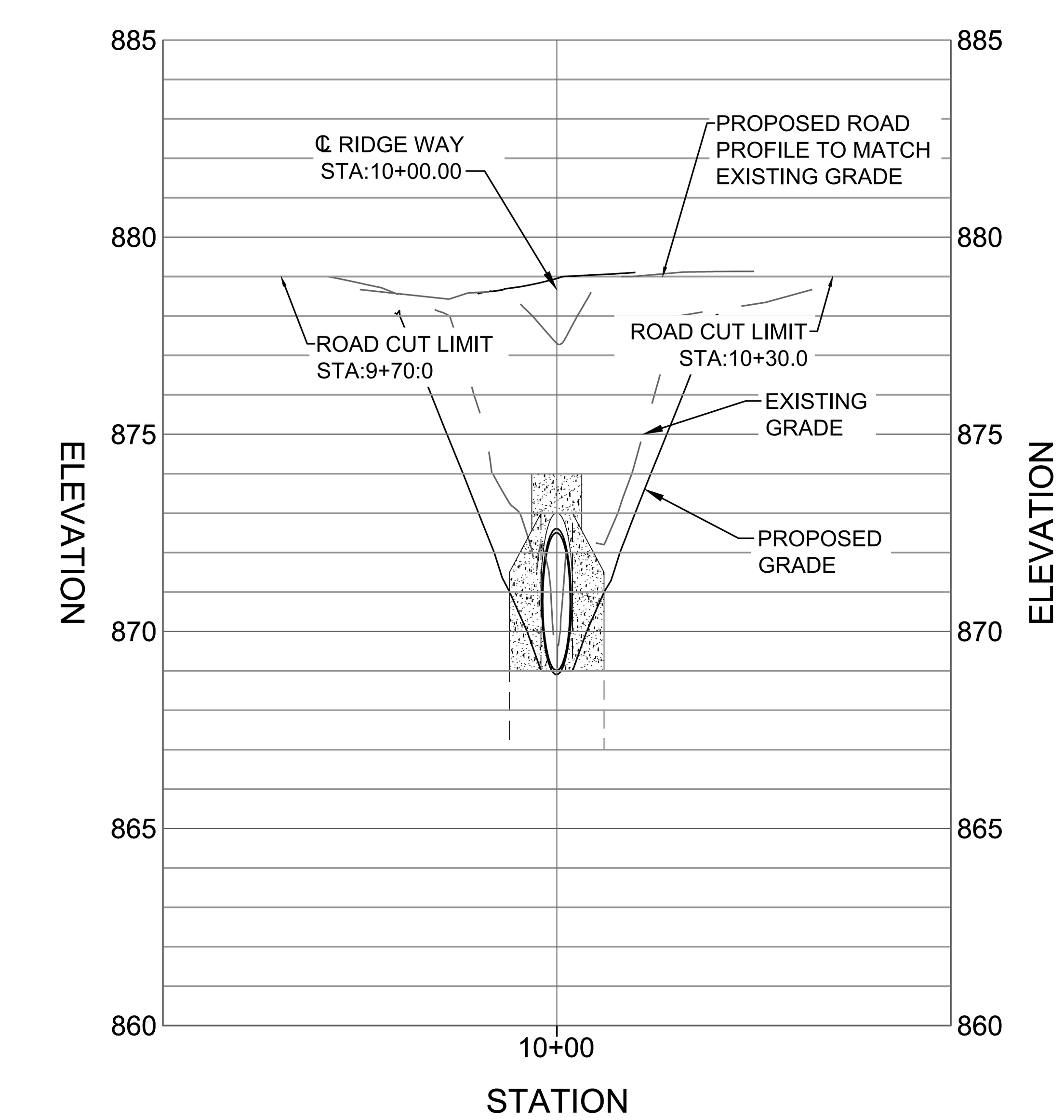
FILE NAME: X:\FY19\1190369\TO07 - Ridge Way 170 Culvert Replacement\04.CAD_BIM\04.02.CAD\CG-101.dwg PLOTTED: Thursday, November 30, 2023



PROPOSED CULVERT PROFILE

HORIZ. SCALE 1" = 20'

VERT. SCALE 1" = 4'



PROPOSED HEADWALL/CULVERT CROSS SECTION

HORIZ. SCALE 1" = 20'

VERT. SCALE 1" = 4'

A1 CIVIL CULVERT PROFILES
SCALE: 1" = 20'

0 10' 20' 40' 60'

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

FILE NAME: X:\FY19\1190369\TO07 - Ridge Way 170 Culvert Replacement\04_CAD_BIM\04.02_CAD\CG-101.dwg PLOTTED: Thursday, November 30, 2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH | DATE: NOV 30, 2023 | DWN BY: SK | CKD BY: FAH | SOLICITATION NO.: - | SUBMITTED BY: FAH | CONTRACT NO.: - | FILE NAME: | FILE NUMBER: - | SIZE: 22" x 34" | PLOT SCALE: | PLOT DATE:

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

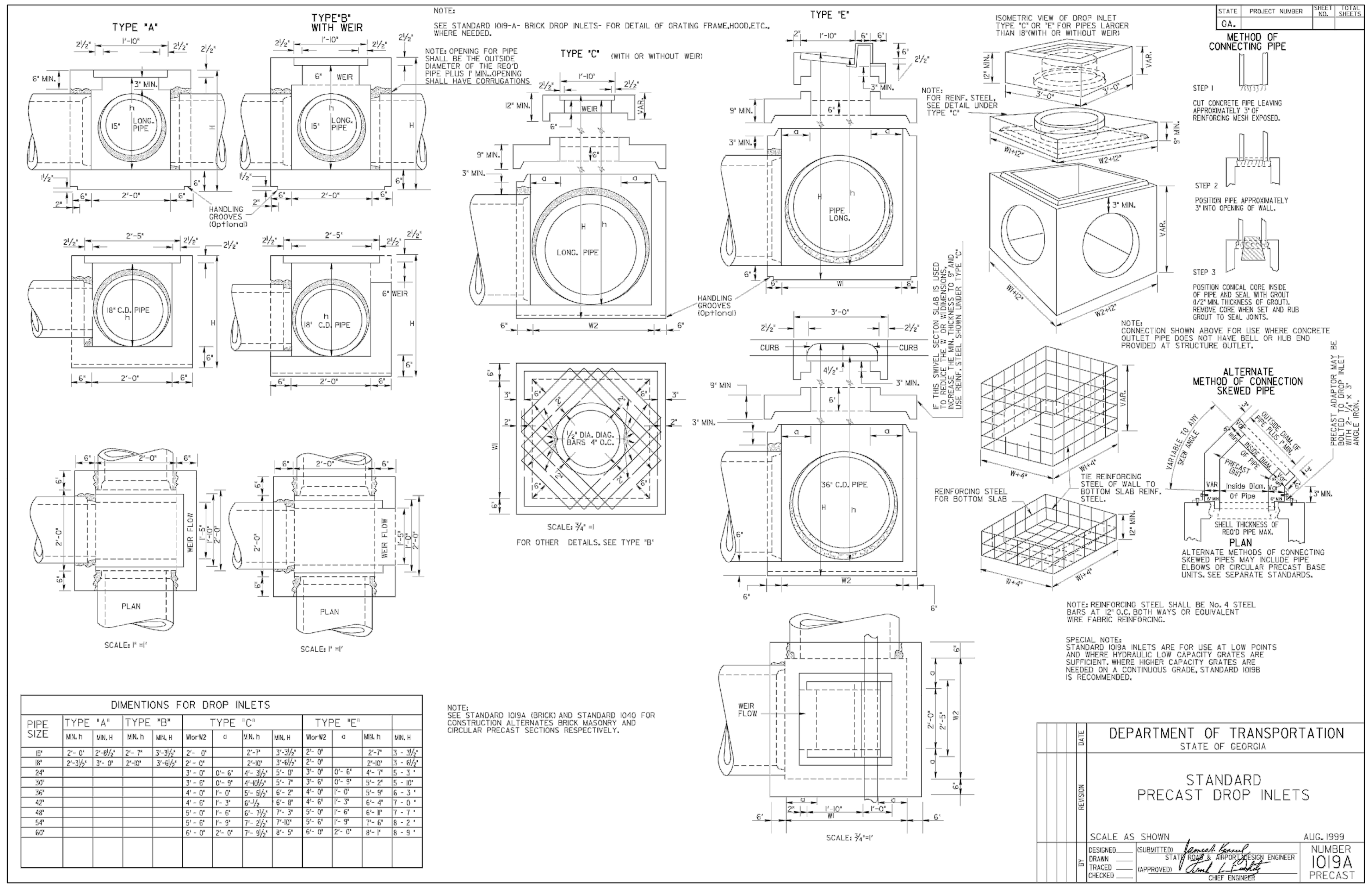
POND

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

CIVIL CULVERT PROFILES

SHEET IDENTIFICATION
CG201

100% DESIGN SUBMITTAL



C1 GDOT STANDARD DROP INLET

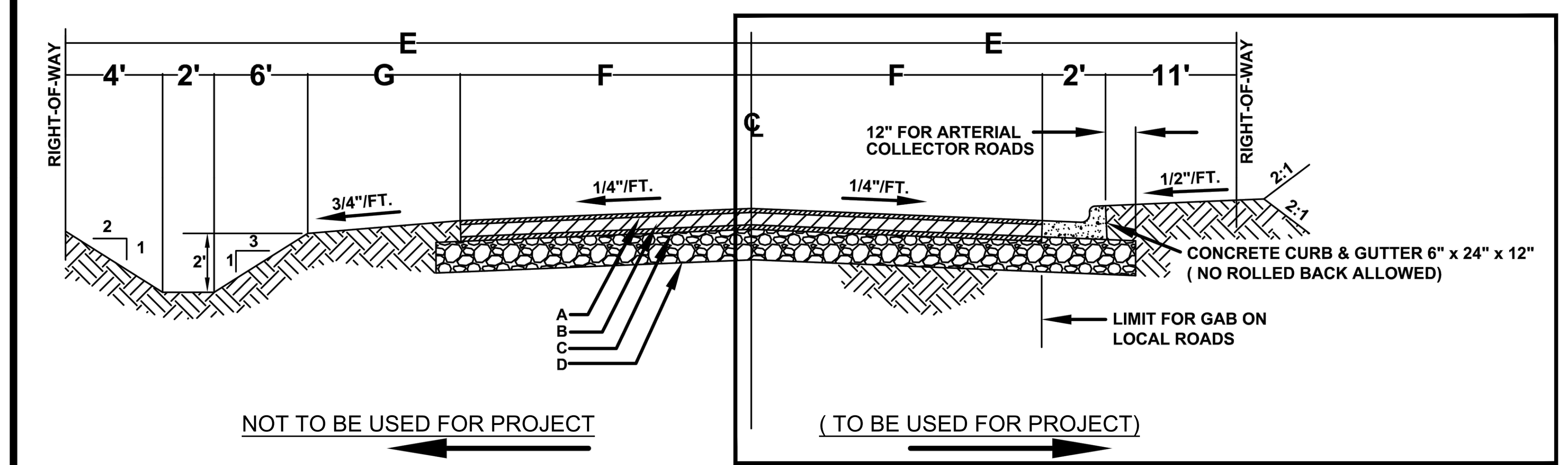
NO SCALE

*PER FAYETTE COUNTY TRANSPORTATION, DIMENSION A FOR THIS PROJECT, WHICH IS CLASSIFIED AS A LOCAL ROAD, SHALL BE RECYCLED RECYCLED ASPHALTIC CONCRETE 9.5mm SUPERPAVE AS LISTED.
CONTRACTOR MAY CHOOSE TO UPGRADE TO 12.5mm SUPERPAVE IF NECESSARY.

DIMENSION	ARTERIAL	COLLECTOR	LOCAL
A	1.5"	1.5"	1.5"
B	2"	2.5"	2"
C	3"	-	-
D	8"	8"	** 6"
E	50'	40'	30'
F	*	*	12'
G	10'	8'	6'

* SEE SEC. 8-48(2) FOR PAVEMENT WIDTH
** 10" OF GAB REQUIRED UNDER CUL-DE-SACS

*A-RECYCLED ASPHALTIC CONCRETE 9.5mm SUPERPAVE GP 2 ONLY, INCL BITUM & H LIME
B-RECYCLED ASPHALTIC CONCRETE 19mm SUPERPAVE GP 1 OR 2, INCL BITUM & H LIME
C-RECYCLED ASPHALTIC CONCRETE 25mm SUPERPAVE GP 1 OR 2, INCL BITUM MATL & H LIME
D- GRADED AGGREGATE BASE (GAB) OR SOIL CEMENT STABILIZED BASE,



TYPICAL HALF ROADWAY SECTION W/ DITCHES	TYPICAL HALF ROADWAY SECTION W/ CURB AND GUTTER

FAYETTE COUNTY, GEORGIA
ENGINEERING DEPARTMENT
TELEPHONE: 770.460.5730 EXT. 5410
WEBSITE: www.fayettecountyga.gov

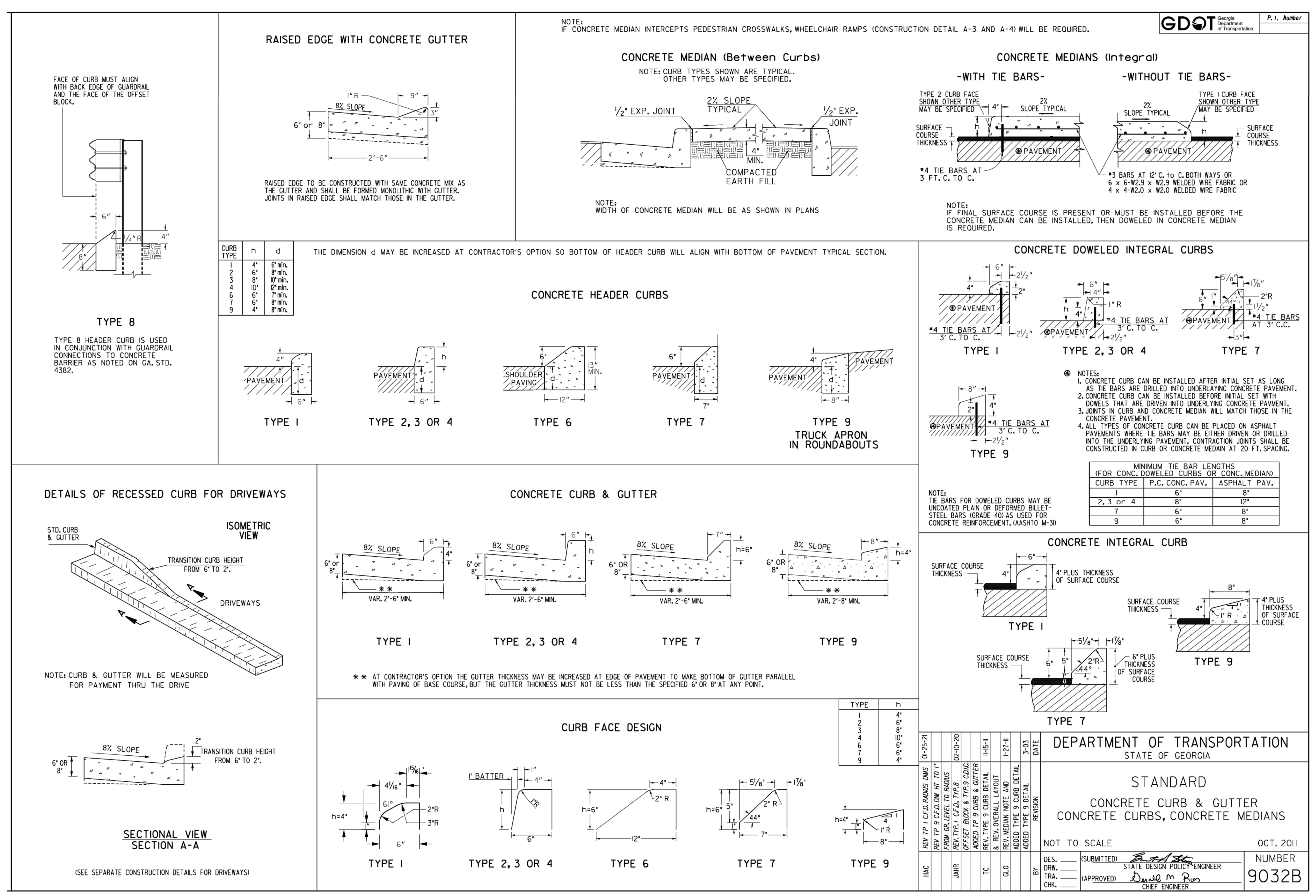
FAYETTE COUNTY TYPICAL ROAD CROSS SECTION
FIGURE 8-49(4)

NO.	DATE	BY	REVISIONS
01	02/2017	JLR	ASPHALT

DRAWN BY: JJG — SCALE: NTS — DATE: ~~SEPTEMBER 27, 2006~~ REVISED 2017

C3 FAYETTE COUNTY TYPICAL ROAD CROSS SECTION

NO SCALE



A1 GDOT STANDARD CONCRETE CURB & GUTTER

NO SCALE

FAYETTE COUNTY
GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH — DATE: NOV 30, 2023
DWN BY: ABC — CKD BY: FAH — SOLICITATION NO.: -
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FILE NAME: — FILE NUMBER: -
SIZE: 22" x 34" — PLOT SCALE: — PLOT DATE:

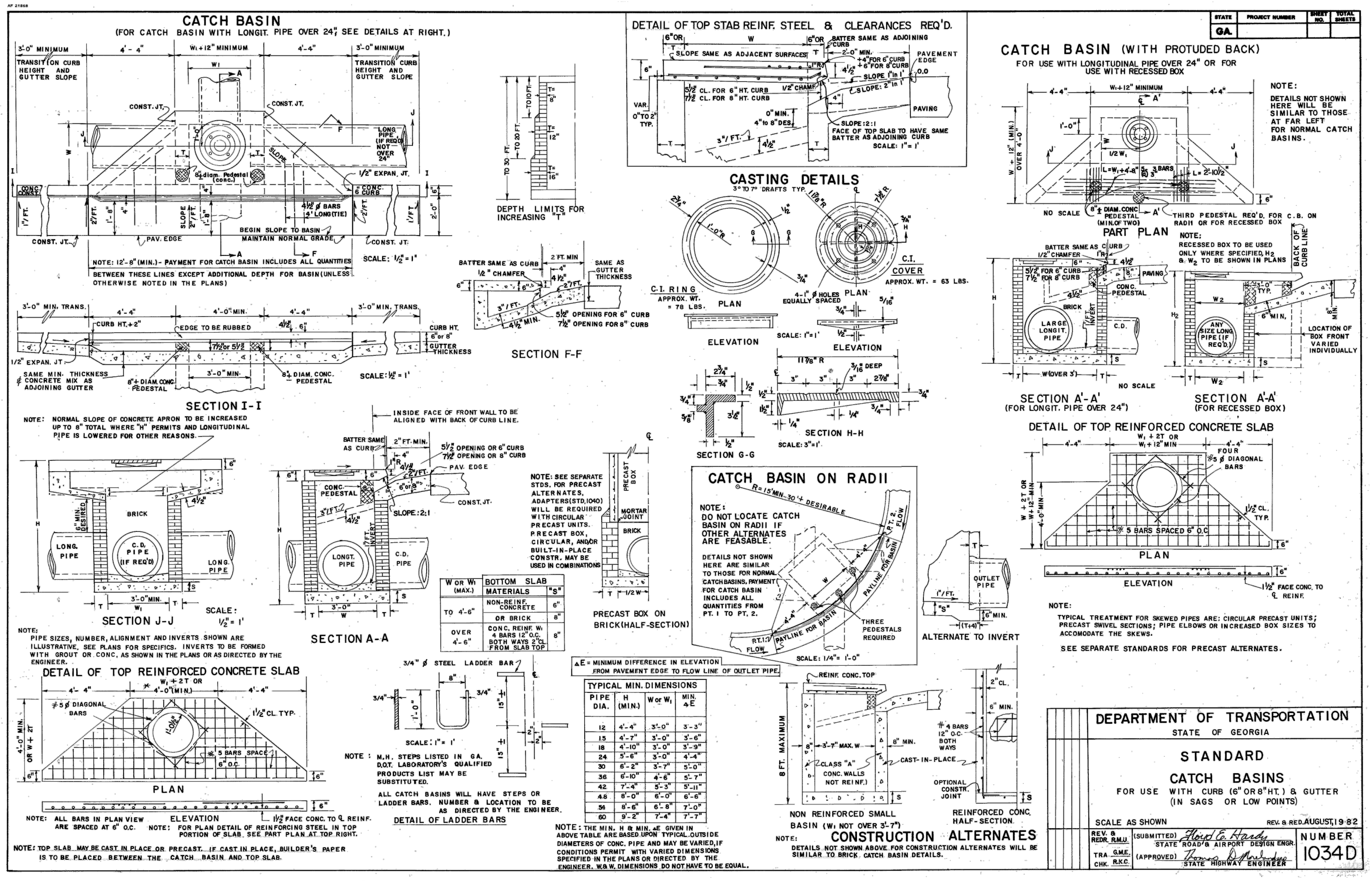
FAYETTE COUNTY
140 STONEWALL AVE W, SUITE 203, FAYETTEVILLE, GA. 30214

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1190369

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

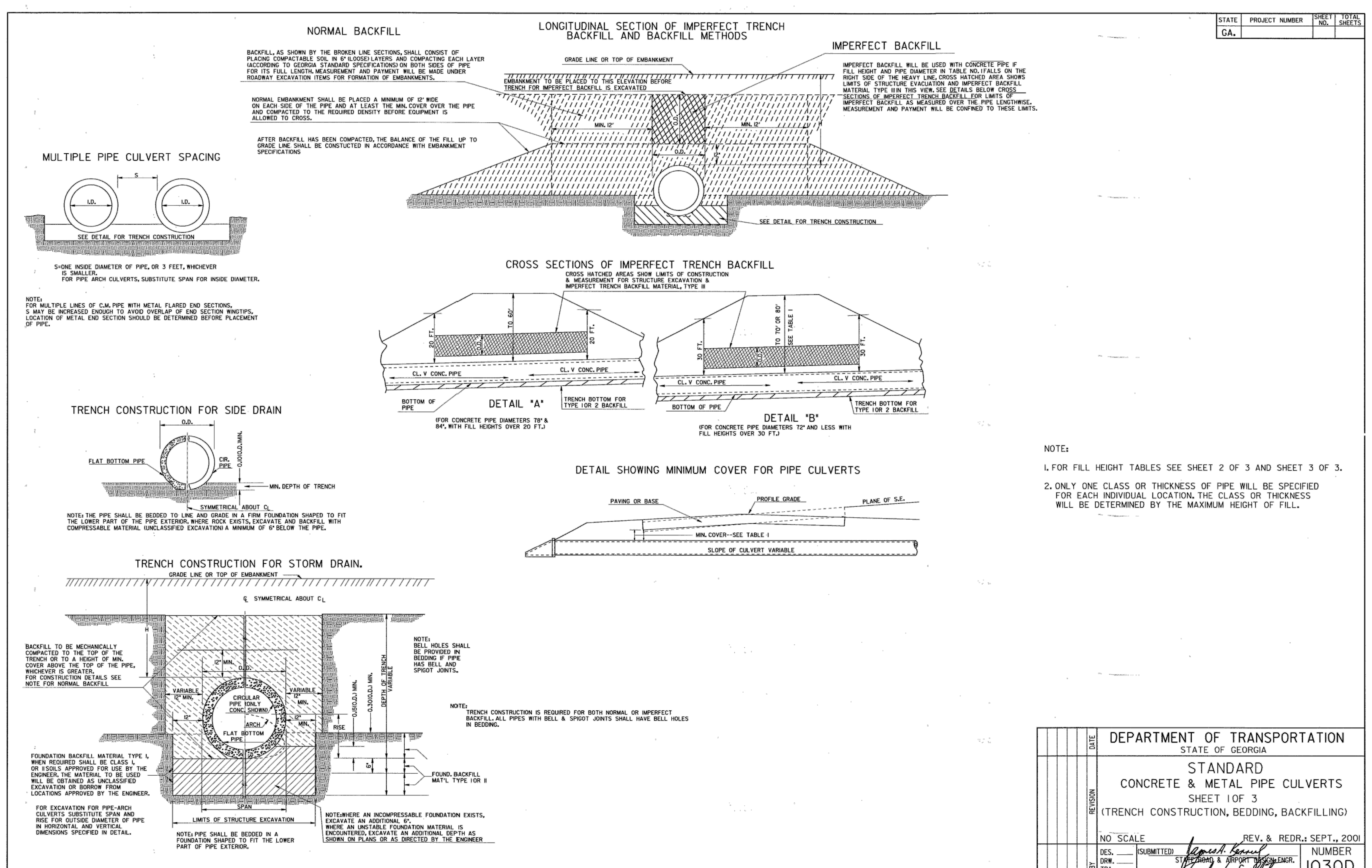
CONSTRUCTION DETAILS

SHEET IDENTIFICATION
C-501



C1 GDOT CATCH BASINS STANDARD

NO SCALE



A1 GDOT CONCRETE & METAL PIPE CULVERTS STANDARD

NO SCALE

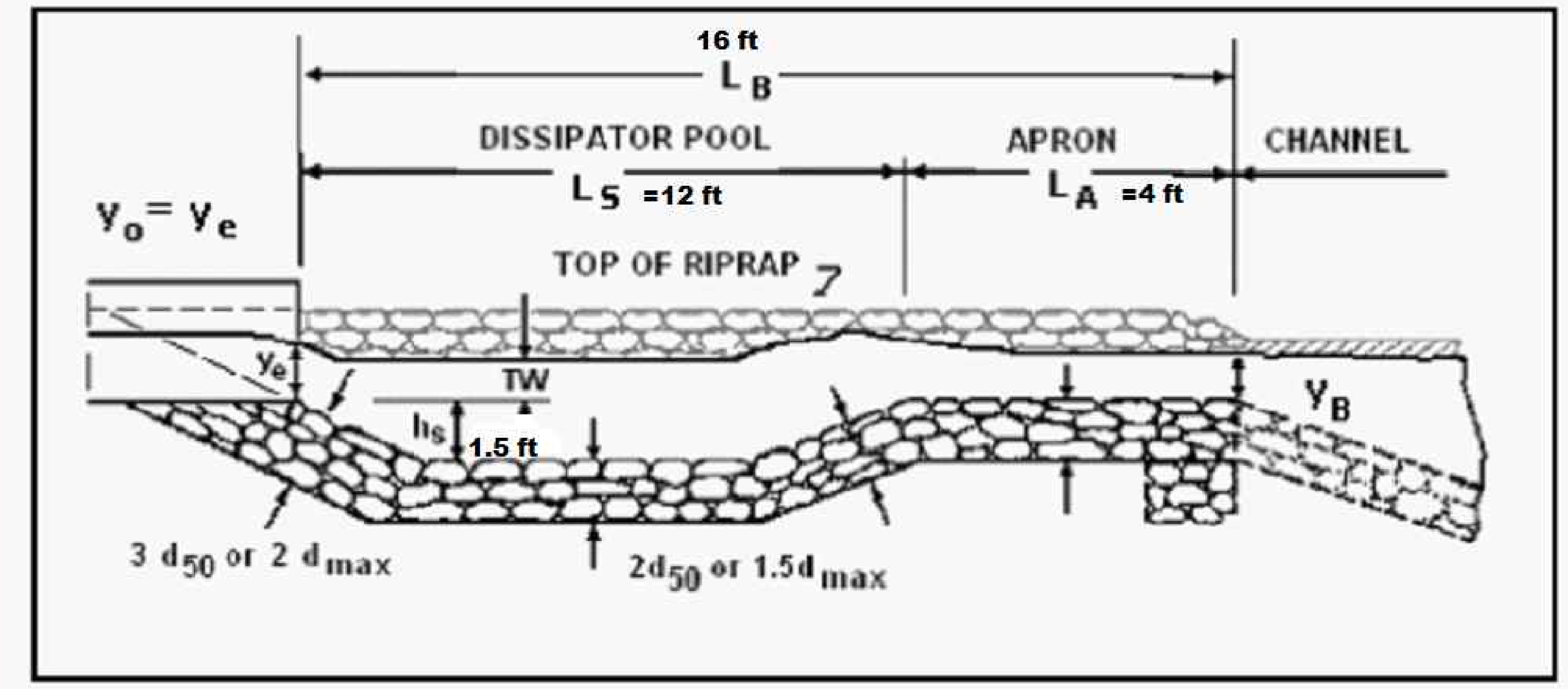


Figure 10.1. Profile of Riprap Basin

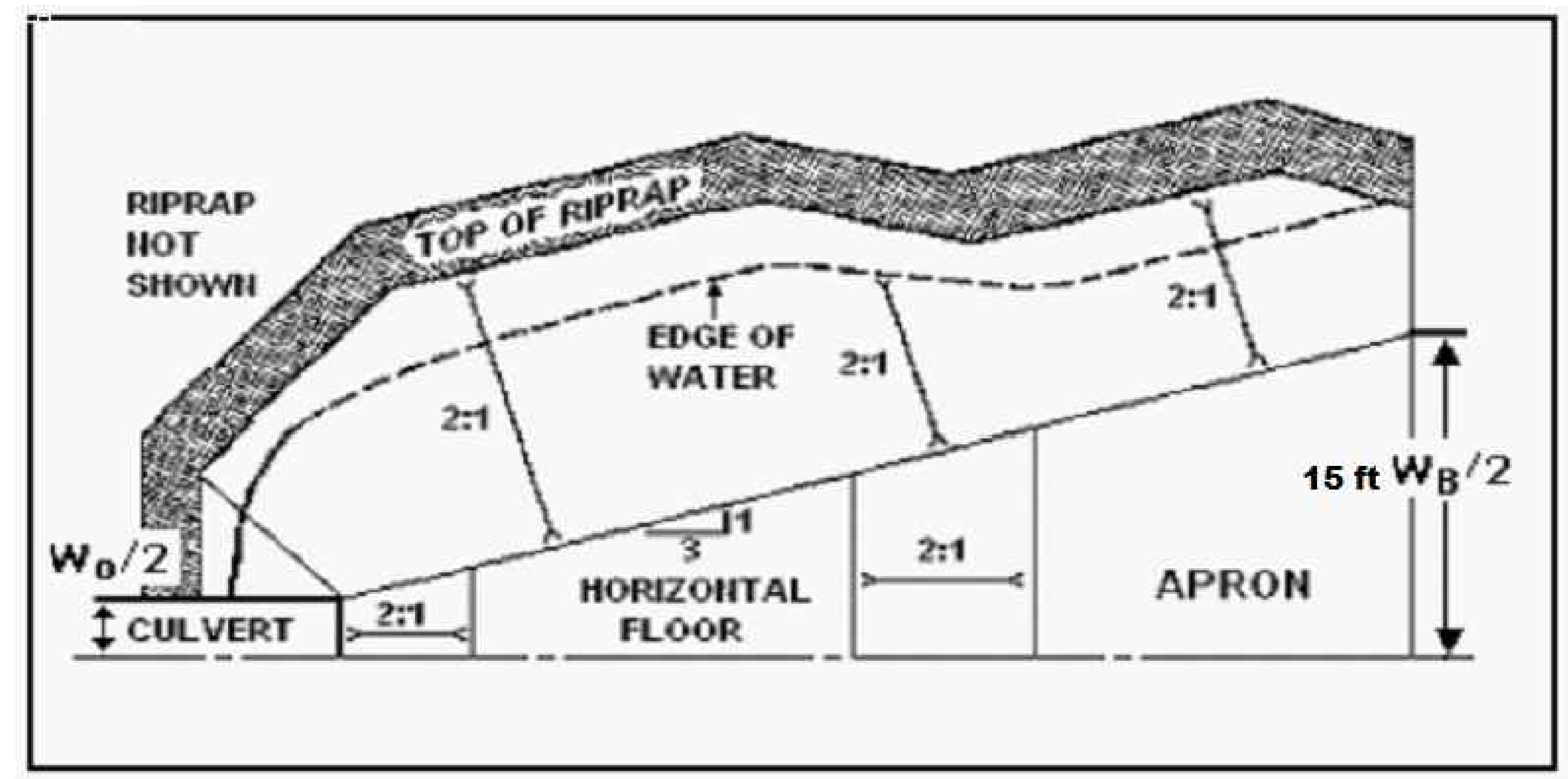


Figure 10.2. Half Plan of Riprap Basin

Outlet Velocity	11	ft/s
Basin Length (LB)	16	ft
Basin Width (WB)	15	ft
Apron Length	4	ft
Pool Length	12	ft
Pool Depth	1.5	ft
Riprap Thickness	2	ft

A3 RIPRAP BASIN DETAILS

NO SCALE

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

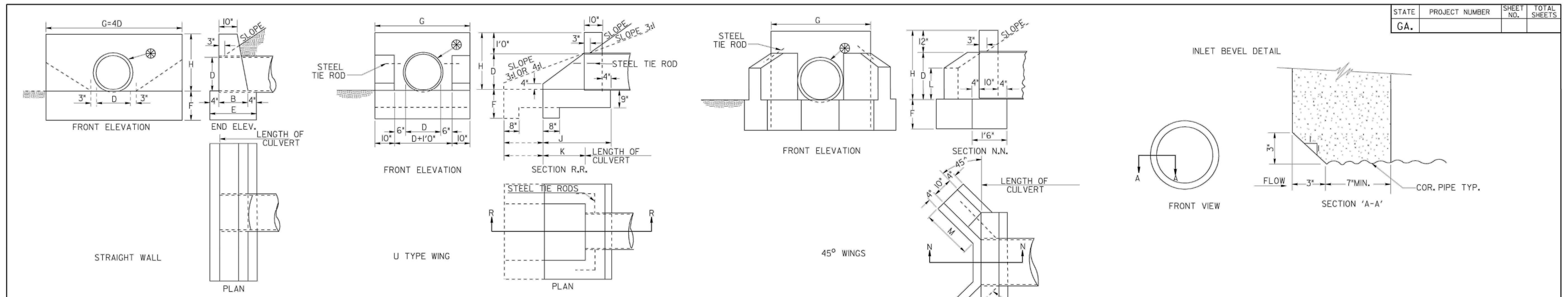
DESIGNED BY: FAH | DWN BY: ABC | CKD BY: FAH | SUBMITTED BY: FAH | DATE: NOV 30, 2023

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA 30214

CONSTRUCTION DETAILS

SHEET IDENTIFICATION
C-502

100% DESIGN SUBMITTAL

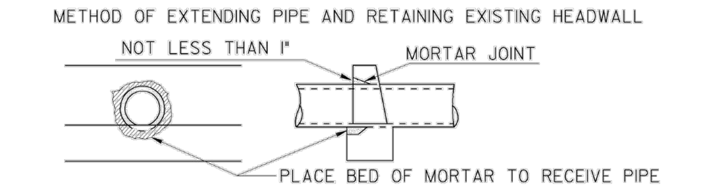


DIMENSIONS							QUANTITIES ONE STRAIGHT ENDWALL				CONC. IN WALL & FTG. FOR EACH ADDL. PIPE LINE
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				
D	AREA SQ. FT.	G	H	B	E	F	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU. FT.	TOTAL CU.YD.	CU.YD.
12"	0.8	4'0"	2'0"	1'2"	1'10"	1'0"	7.2	7.3	14.5	0.54	0.25
15"	1.2	5'0"	2'3"	1'2"	1'10"	1'2"	9.9	10.7	20.6	0.76	0.36
18"	1.8	6'0"	2'6"	1'3"	1'11"	1'3"	13.6	14.4	28.0	1.04	0.48
24"	3.1	8'0"	3'0"	1'4"	2'0"	1'4"	22.3	21.3	43.6	1.62	0.74
30"	4.9	10'0"	3'6"	1'6"	2'2"	1'6"	34.7	32.5	67.2	2.49	1.13
36"	7.1	12'0"	4'0"	1'8"	2'4"	1'8"	50.5	46.7	97.2	3.60	1.62
42"	9.6	14'0"	4'6"	1'10"	2'6"	2'0"	70.3	70.0	140.3	5.20	2.13
48"	12.6	16'0"	5'0"	2'1"	2'9"	2'0"	96.9	88.0	184.9	6.85	2.58
54"	16.0	18'0"	5'6"	2'4"	3'0"	2'0"	129.4	108.0	237.4	8.79	3.07
60"	19.6	20'0"	6'0"	2'6"	3'2"	2'0"	164.6	126.7	291.3	10.79	3.53

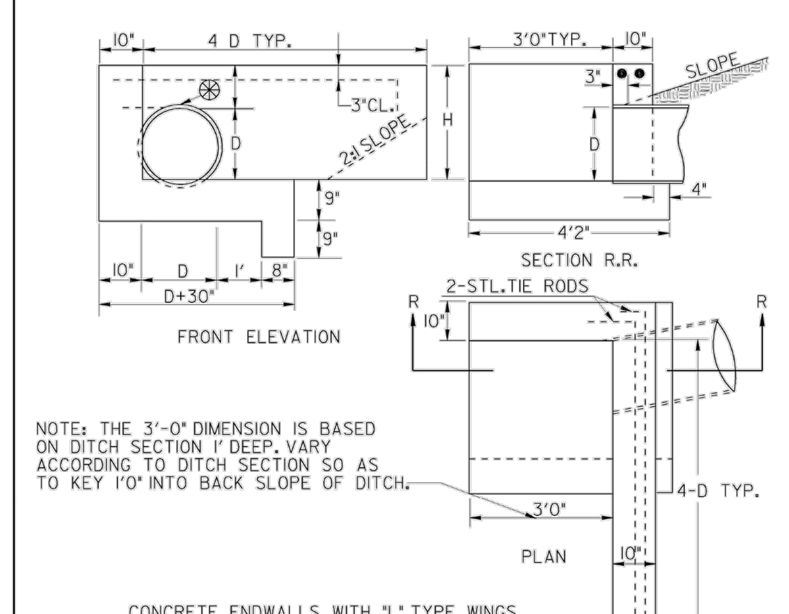
FOR EACH ADDITIONAL PIPE LINE, ADD TO G: OD+(ID OR 3 FEET, WHICHEVER IS SMALLER)

DIMENSIONS							QUANTITIES ONE "U" ENDWALL				
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ.FT	G	H	K	F	J	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU.FT.	TOTAL CU.YD.	
2:1 FILL SLOPES											
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.x2'0"
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.x2'0"
36"	7.1	5'8"	4'0"	4'0"	1'9"	5'2"	21.2	26.2	50.4	1.87	2-3/4"DIA.x2'0"
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.x2'6"
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.x3'0"
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.x3'6"
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.x4'0"
3:1 FILL SLOPES											
12"	0.8	3'8"	2'0"	2'0"	1'3"	3'2"	7.7	9.9	17.6	0.65	NONE
15"	1.2	3'11"	2'3"	2'9"	1'3"	3'11"	10.0	12.8	22.8	0.84	NONE
18"	1.8	4'2"	2'6"	3'6"	1'3"	4'8"	12.5	16.0	28.5	1.06	NONE
24"	3.1	4'8"	3'0"	5'0"	1'6"	6'2"	18.8	24.0	42.8	1.58	2-3/4"DIA.x2'0"
30"	4.9	5'2"	3'6"	6'6"	1'6"	7'8"	26.3	32.3	58.6	2.17	2-3/4"DIA.x2'0"
36"	7.1	5'8"	4'0"	8'0"	1'9"	9'2"	35.1	42.8	77.9	2.89	2-3/4"DIA.x2'0"
42"	9.6	6'2"	4'6"	9'6"	2'0"	10'8"	45.4	54.5	99.9	3.70	2-3/4"DIA.x2'6"
48"	12.6	6'8"	5'0"	11'0"	2'0"	12'2"	56.9	66.5	123.4	4.57	2-3/4"DIA.x3'0"
54"	16.0	7'2"	5'6"	12'6"	2'0"	13'8"	66.7	79.5	146.2	5.41	2-3/4"DIA.x3'6"
60"	19.6	7'8"	6'0"	13'4"	2'0"	17'2"	81.0	87.9	168.9	6.25	2-3/4"DIA.x4'0"
4:1 FILL SLOPES											
12"	0.8	3'8"	2'0"	2'8"	1'3"	3'10"	8.4	11.8	20.2	0.75	NONE
15"	1.2	3'11"	2'3"	3'8"	1'3"	4'10"	11.2	15.5	26.6	0.98	NONE
18"	1.8	4'2"	2'6"	4'8"	1'3"	5'10"	14.3	19.6	33.9	1.26	NONE
24"	3.1	4'8"	3'0"	6'8"	1'6"	7'10"	22.0	29.8	51.8	1.92	2-3/4"DIA.x2'0"
30"	4.9	5'2"	3'6"	8'8"	1'6"	9'10"	31.3	40.7	72.0	2.67	2-3/4"DIA.x2'0"
36"	7.1	5'8"	4'0"	10'8"	1'9"	11'10"	42.5	54.1	96.6	3.58	2-3/4"DIA.x2'0"
42"	9.6	6'2"	4'6"	12'8"	2'0"	13'10"	55.4	69.2	124.6	4.61	2-3/4"DIA.x2'6"
48"	12.6	6'8"	5'0"	14'8"	2'0"	15'10"	70.0	84.8	154.8	5.73	2-3/4"DIA.x3'0"
54"	16.0	7'2"	5'6"	16'8"	2'0"	17'10"	86.4	101.9	188.3	6.97	2-3/4"DIA.x3'6"
60"	19.6	7'8"	6'0"	18'8"	2'0"	19'10"	104.7	120.5	225.2	8.34	2-3/4"DIA.x4'0"

DIMENSIONS							QUANTITIES ONE ENDWALL WITH 45° WING WALLS				
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ. FT.	H	G	L	M	F	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU.FT.	TOTAL CU.YD.	
2:1 SLOPES											
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.x2'0"
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.x2'0"
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.x3'0"
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.x3'0"
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.x3'0"
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.x3'0"
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.x3'0"
3:1 SLOPES											
18"	1.8	2'6"	3'10"	1'2"	1'9"	1'3"	10.7	14.5	25.2	0.93	NONE
24"	3.1	3'0"	4'4"	1'5"	2'10"	1'4"	16.6	17.8	34.4	1.27	2-3/4"DIA.x2'0"
30"	4.9	3'6"	4'10"	1'9"	3'6"	1'6"	22.9	24.4	47.3	1.71	2-3/4"DIA.x2'0"
36"	7.1	4'0"	5'4"	2'1"	4'3"	1'8"	30.2	32.0	62.2	2.30	2-3/4"DIA.x3'0"
42"	9.6	4'6"	5'10"	2'5"	4'11"	2'0"	38.8	44.0	82.8	3.07	2-3/4"DIA.x3'0"
48"	12.6	5'0"	6'4"	2'8"	5'6"	2'0"	47.5	48.6	96.1	3.56	2-3/4"DIA.x3'0"
54"	16.0	5'6"	6'10"	3'2"	6'1"	2'0"	57.0	53.4	110.4	4.09	2-3/4"DIA.x3'0"
60"	19.6	6'0"	7'4"	3'6"	6'9"	2'0"	68.5	59.1	127.6	4.73	2-3/4"DIA.x3'0"



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: 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

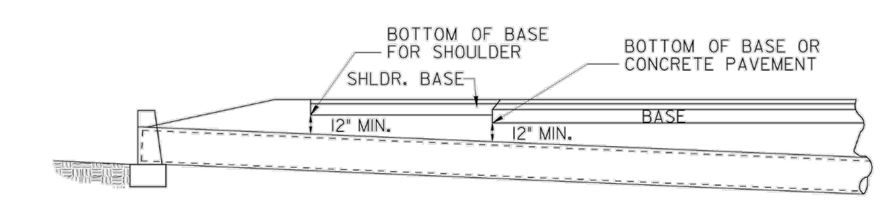
NOTE: THESE QUANTITIES WILL VARY ACCORDING TO DITCH SECTION AND ARE TO BE USED FOR ESTIMATING PURPOSES ONLY. PAYMENT TO BE MADE ACCORDING TO QUANTITIES MEASURED AS ACTUALLY PLACED.

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.x5'0"
18"	1.8	2'6"	6'0"	4'0"	1.24	2-3/4"DIA.x6'0"
24"	3.1	3'0"	8'0"	4'6"	1.59	2-3/4"DIA.x8'0"
30"	4.9	3'6"	10'0"	5'0"	2.00	2-3/4"DIA.x10'0"
36"	7.1	4'0"	12'0"	5'6"	2.46	2-3/4"DIA.x12'0"
42"	9.6	4'6"	14'0"	6'0"	2.98	2-3/4"DIA.x14'0"
48"	12.6	5'0"	16'0"	6'6"	3.53	2-3/4"DIA.x16'0"
54"	16.0	5'6"	18'0"	7'0"	4.13	2-3/4"DIA.x18'0"
60"	19.6	6'0"	20'0"	7'6"	4.85	2-3/4"DIA.x20'0"

3:1 FILL SLOPES

NOTE: QUANTITIES OF CONCRETE ARE BASED ON INSIDE DIAMETER OF PIPE. NO DEDUCTIONS SHALL BE MADE FOR SHELL THICKNESS OR SKEW OF PIPE IN COMPUTING PAY QUANTITIES.

SECTION SHOWING MINIMUM COVER OVER CULVERTS



NOTE: GRADE GENERALLY TO FOLLOW SLOPE OF STREAM.

* IF PIPE HAS NEITHER A GROOVE NOR A SPIGOT AT ITS INLET, AN INLET BEVEL WILL BE REQ'D.

— 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 / TRACED / CHECKED — (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER — (APPROVED) CHIEF ENGINEER — NUMBER 1001-B

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

B2 STANDARD PIPE CULVERT CONCRETE HEADWALL

NO SCALE

(Typical each side)

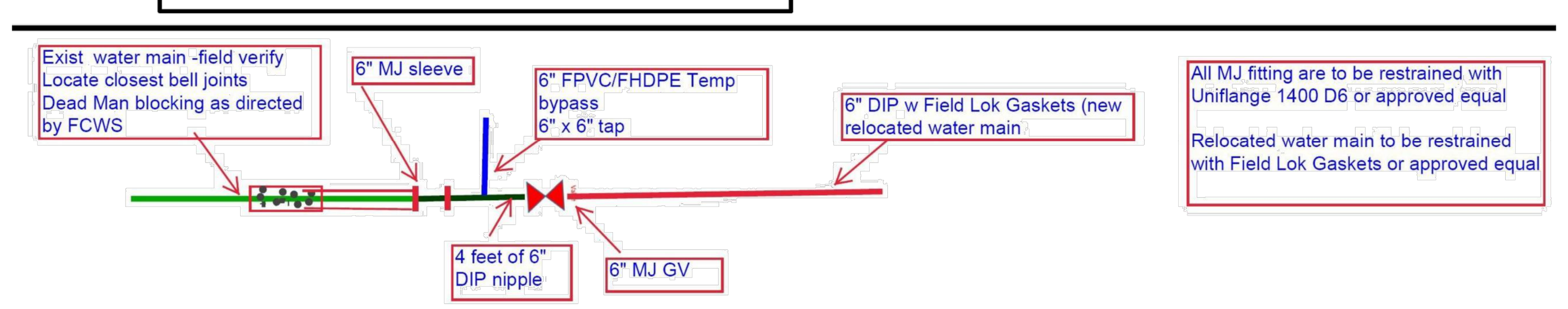
-Field verify size, type and class of existing water main

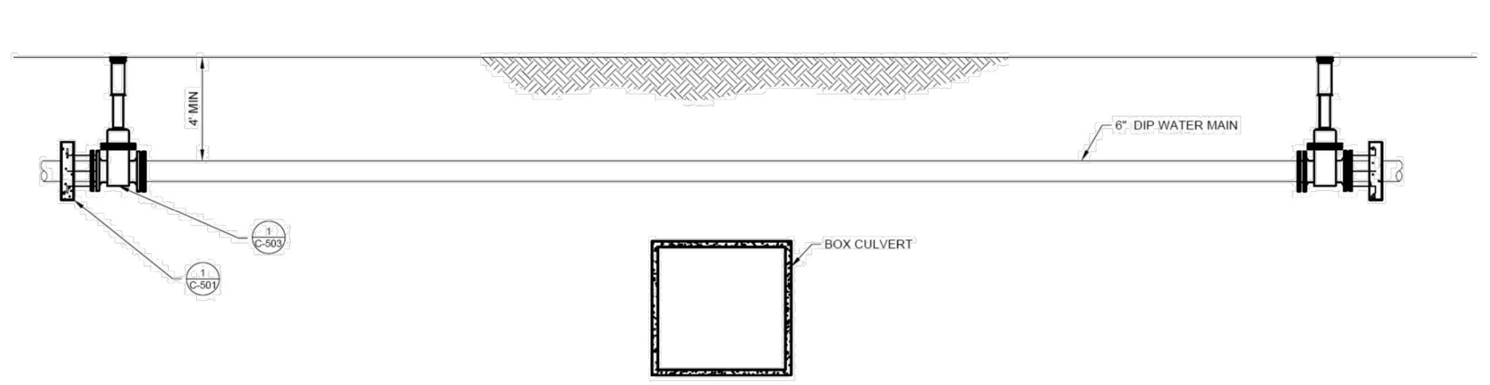
-Connect to existing water main w/ 6" long pattern MJ solid sleeve

-Install 4' DIP nipple from 6" MJ solid sleeve

-Install 6" x 6" MJ Tee

-Install 6" MJ Gate valve and dead man blocking





6" WATER LINE CULVERT CROSSING

A1 FAYETTE COUNTY WATER DETAILS

NO SCALE

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214
CONSTRUCTION DETAILS

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

POND — 3500 Parkway Lane, Suite 500, Peachtree Corners, GA 30092, Phone (678) 336-7740, Fax (678) 336-7744, POND PROJECT NO. 1193690

DESIGNED BY: FAH | DWN BY: ABC | CKD BY: FAH | SUBMITTED BY: FAH | DATE: NOV 30, 2023 | SOLICITATION NO.: - | CONTRACT NO.: - | FILE NUMBER: - | FILE NAME: | SIZE: 22" x 34" | PLOT SCALE: | PLOT DATE:

MARK | DESCRIPTION | DATE | APPR.

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

SHEET IDENTIFICATION
C-503

100% DESIGN SUBMITTAL

FILE NAME: X:\FY19\1193690\T007 - Ridge Way 170 Culvert Replacement\04.CAD_BIM\04.02.CAD\C-501.DWG PLOTTED: Thursday, November 30, 2023

DESIGN PROFESSIONAL CERTIFICATION:

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

DAVID MORGAN, P.E. — 12/22/2021 DATE

GSWCC LEVEL II CERTIFICATION # 011643

EXPIRES: 06/03/2024

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

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

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

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

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

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

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

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

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES

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

OWNER/ PRIMARY PERMITEE: FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT
PHIL MALLON
140 STONEWALL AVE. W.,
SUITE 203, FAYETTEVILLE, GA. 30214
PHONE (770) 313-9855
PUBLICWORKS@FAYETTE COUNTYGA.GOV

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

CONTACT: DAVID MORGAN, PE
GA. P.E. # 027428 , E&S LEVEL II CERTIFICATION # 011643
CONTRACTOR: TO BE DETERMINED

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

TOTAL SITE AREA: 0.41 ACRES
DISTURBED AREA: 0.41 ACRES

EXISTING LAND USE: THE EXISTING LAND USE CONSISTS OF A A STORM DRAINAGE SYSTEM CROSSING A TWO LANE PAVED ROAD WITH A 42" DIAMETER CMP EXTENDING 120 FT DOWNSTREAM AND A 36" DIAMETER CMP EXTENDING 180 FT UPSTREAM

PROPOSED LAND USE: THE PROJECT CONSIST OF THE REMOVAL OF THE EXISTING DETERIORATED STORM DRAIN CMP AND REPLACING IN KIND WITH A 42-INCH DIAMETER RCP WITHIN ROAD RIGHT OF WAY AND HDPE PIPE ELSEWHERE.

NAME OF RECEIVING WATERS: MURPHY CREEK
AREA OF ON-SITE WETLANDS: 0 AC

PLAN NORTH

FEMA FLOOD MAP - 13113C0112E

SCALE: NTS DATED 09/26/2008

THERE ARE KNOWN WETLANDS LOCATED WITHIN 200 FEET OF PROJECT AREA.

STATE WATERS DO EXIST WITHIN 200 FEET OF PROJECT AREA.

ACTIVITY SCHEDULE (FOR PERMITTING REFERENCE ONLY)

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

(TIME / 16 WEEKS)

EROSION CONTROL LEGEND

Symbol	Description
Ds1	TEMPORARY MULCHING - DETAIL A4/CE-501
Ds2	TEMPORARY SEEDING - DETAIL A1/CE-502
Ds3	PERMANENT SEEDING - DETAIL A1/CE-503
Ds4	DISTURBED AREA STABILIZATION W/ SODDING - DETAIL A3/CE-502
Ss	SLOPE STABILIZATION DETAIL A1/CE-504
Sd1-S 28"	SILT FENCING - DETAIL C2/CE-501
Du	DUST CONTROL - DETAIL A1/CE-501
Cd-Fs	FILTER SOCK -DETAIL C3/CE-502
Tr	TREE PROTECTION FENCE - DETAIL C1/CE-504
St	STORM OUTLET PROTECTION -DETAIL B1/CE-501
Sd2-P	CURB INLET PROTECTION -DETAIL C4/CE-502

SOIL MAP

SOILS LEGEND

SYMBOL	DESCRIPTION
CeB	Cecil sandy loam, 2 to 6 percent slopes
GeB	Gwinnett sandy loam, 2 to 6 percent slopes
WH	Wehadkee soils, 0 to 2 percent slopes, frequently flooded

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 011643
EXPIRES : 06/03/2024

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

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

POND 3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092 Phone (678) 336-7740 Fax (678) 336-7744 POND PROJECT NO. 1193690

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DMM | DATE: NOV 30, 2023
DWN BY: MIA | CKD BY: MDM | SOLICITATION NO.: -
SUBMITTED BY: DMM | CONTRACT NO.: -
FILE NAME: CE001 | FILE NUMBER: -
SIZE: 22" x 34" | PLOT SCALE: | PLOT DATE:

RIDGE WAY CULVERT REPLACEMENT

FAYETTE COUNTY, GA. 30214

EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND

SHEET IDENTIFICATION CE001

100% DESIGN SUBMITTAL

STRUCTURAL PRACTICES:

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

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

CRITICAL WORK ZONE:

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

CONSTRUCTION PERIOD STORM WATER POLLUTANT CONTROL:

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

STABILIZATION MEASURES:

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

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

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

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

KEEPING PLANS CURRENT:

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

PROPER OPERATION AND MAINTENANCE:

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

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

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

NON-STORM WATER DISCHARGES:

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

WASTE MATERIALS AND DISPOSAL:

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

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

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

HAZARDOUS WASTES:

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

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

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

SANITARY WASTES:

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

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

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

OFFSITE VEHICLE TRACKING / DUST CONTROL:

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

SPILL PREVENTION

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

GOOD HOUSEKEEPING

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

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

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES

(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100001)

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAINMENT. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

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

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

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

SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN:

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

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

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 011643
EXPIRES : 06/03/2024

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FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH | DATE: NOV 30, 2023
DWN BY: MDW | CKD BY: FAH | SOLICITATION NO.: -
SUBMITTED BY: FAH | CONTRACT NO.: -
FILE NAME: CE002 | FILE NUMBER: -
SIZE: 22" X 34" | PLOT SCALE: | PLOT DATE:

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

POND

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND

SHEET IDENTIFICATION
CE002

100% DESIGN SUBMITTAL

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Towaliga

Project Name: Ridge Way Culvert Replacement Project **Address:** Ridge Way

City/County: Fayette County **Date on Plans:** 12/22/2021

Name & email of person filling out checklist: Matthew Auch - auchm@pondco.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
CE-003	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
CE-001	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
N/A	N/A	3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
CE-001	Y	4 Provide the name, address, email address, and phone number of primary permittee.
CE-001	Y	5 Note total and disturbed acreages of the project or phase under construction.
CE-001	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
N/A	N/A	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
CE-001	Y	8 Descriptions of the nature of construction activity and existing site conditions.
CE-001	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
CE-001	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
CE-001	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 21** of the permit.
N/A	N/A	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 20** of the permit. *
N/A	N/A	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on **Part IV.D.6.c.(3) page 37** of the permit as applicable. *
N/A	N/A	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with **Part IV.A.5 page 26** of the permit. *
CE-001	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
CE-001	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
N/A	N/A	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
N/A	N/A	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
CE-001	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
CE-001	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
CE-001	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N/A	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
N/A	N/A	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
CE-002	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
N/A	N/A	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
N/A	N/A	27 Description of practices to provide cover for building materials and building products on site. *
N/A	N/A	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
CE-001	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
N/A	N/A	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
N/A	N/A	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
N/A	N/A	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
N/A	N/A	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
N/A	N/A	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
N/A	N/A	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
N/A	N/A	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
CE Plan	Y	37 Graphic scale and North arrow.
CE Plan	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours: USGS 1": 2000' Topographical Sheets; Proposed Contours: 1" : 400' Centerline Profile
N/A	N/A	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A	N/A	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
CE Plan	Y	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
CE Plan	Y	42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
CE Plan	Y	43 Delineation and acreage of contributing drainage basins on the project site.
N/A	N/A	44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
CE-Plan	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
N/A	N/A	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
CE-001	Y	47 Soil series for the project site and their delineation.
CE Plan	Y	48 The limits of disturbance for each phase of construction.
CE-101	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
CE-201		
CE-301		
CE Plan	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
CE-50X	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
CE-502	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.
CE-503		

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2021

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 011643
EXPIRES : 06/03/2024

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FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED No. 27428 PROFESSIONAL ENGINEER DAVID M. MORGAN
11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH
DWN BY: MDW
CKD BY: FAH
SUBMITTED BY: FAH
DATE: NOV 30, 2023
SOLICITATION NO.: -
CONTRACT NO.: -
FILE NAME: CE003
FILE NUMBER:
SIZE: 22" x 34"
PLOT SCALE:
PLOT DATE:

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

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 335-7740
Fax (678) 335-7744
POND@PONDCO.COM

RIDGE WAY
CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND

SHEET IDENTIFICATION
CE003

100% DESIGN SUBMITTAL

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.

SHEET LEGEND

- SF — SILT FENCE
- LOD — LOD — LIMITS OF DISTURBANCE
- TPF — TPF — TREE PROTECTION FENCING(TYP)
- PROPERTY LINE

NOTE

USE (St) BMP AT OUTLET UNTIL FINAL SITE STABILIZATION TO INSTALL RIP-RAP BASIN AS SHOWN ON PLAN SHEET.

SUMMARY OF AREAS

TOTAL SITE AREA:	0.41 ACRES
ONSITE DISTURBED AREA:	0.41 ACRES

DESIGN PROFESSIONAL:
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24 HR. EROSION CONTROL CONTACT
PHIL MALLON
(770) 313-9855

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

0 10' 20' 40' 60'

100% DESIGN SUBMITTAL

FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED No. 27428 PROFESSIONAL ENGINEER DAVID M. MORGAN
11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: DEF
DWN BY: FH
CKD BY: ABC
SUBMITTED BY: FH
DATE: NOV 30, 2023
SOLICITATION NO.: -
CONTRACT NO.: -
FILE NUMBER: -
FILE NAME: CE101
PLOT DATE:
SIZE: 22" x 34"
PLOT SCALE:

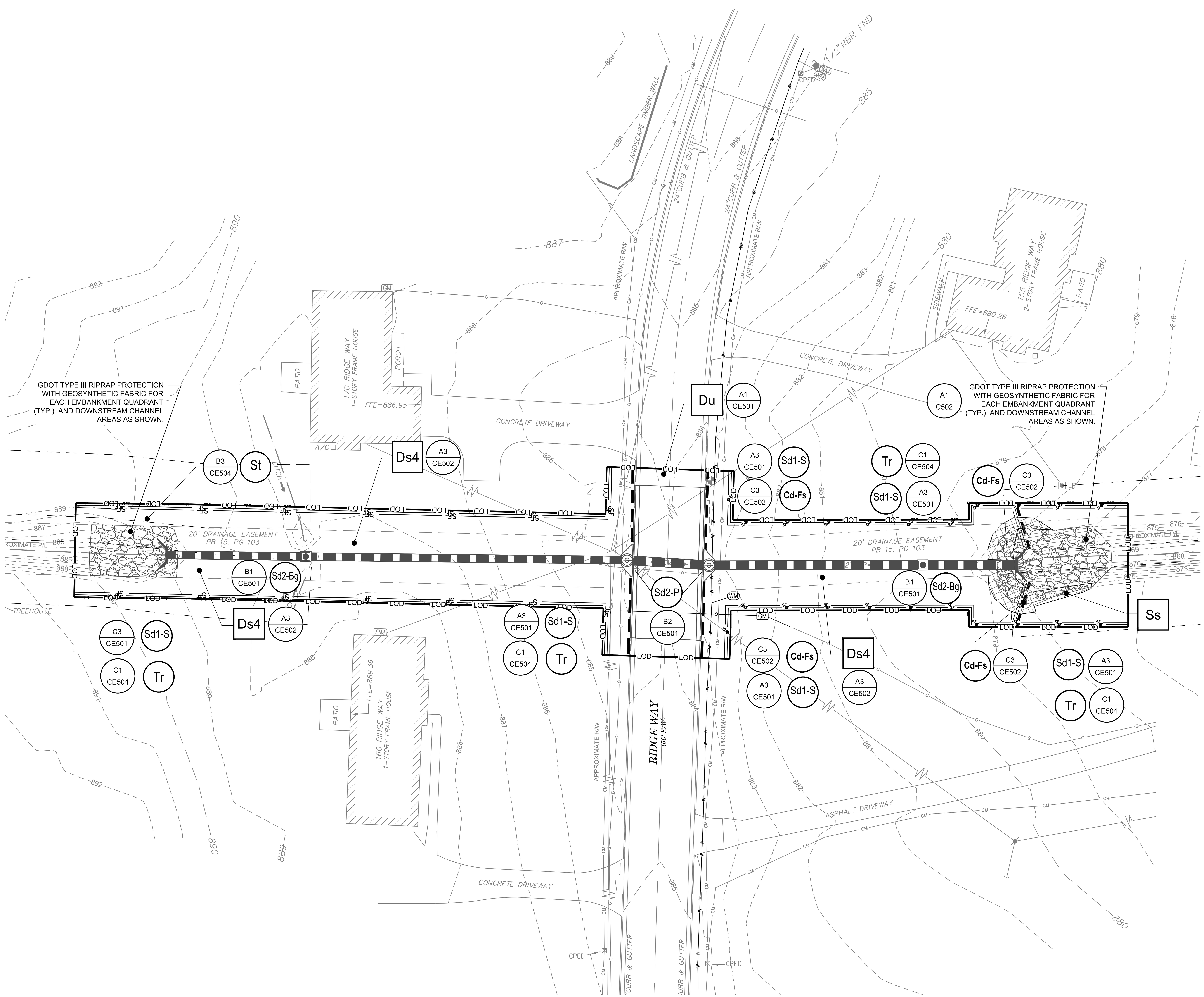
FAYETTE COUNTY
140 STONEWALL AVE W, SUITE 203,
FAYETTEVILLE, GA. 30214

POND
3660 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone: (678) 336-7140
Fax: (678) 336-7744
POND@pondco.com

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

EROSION AND SEDIMENT CONTROL PLAN - INITIAL PHASE

SHEET IDENTIFICATION
CE101



A1 EROSION AND SEDIMENT CONTROL PLAN - FINAL PHASE

SCALE: 1" = 20'

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. CONTRACTOR TO PROVIDE A SEDIMENT WASH DOWN BMP AT PROJECT EXIT, AND TO BE MAINTAINED AT ALL TIMES. CONTRACTOR MAY USE A CONSTRUCTION ENTRANCE IF APPLICABLE.

SHEET LEGEND

—SF—	SILT FENCE
—LOD—LOD—	LIMITS OF DISTURBANCE
—TPF—TPF—	TREE PROTECTION FENCING(TYP)
— - —	PROPERTY LINE

SUMMARY OF AREAS

TOTAL SITE AREA:	0.41 ACRES
ONSITE DISTURBED AREA:	0.41 ACRES

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 011643
EXPIRES : 06/03/2024

24 HR. EROSION CONTROL CONTACT
PHIL MALLON
(770) 313-9855

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

FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION
DATE	APPR.

DESIGNED BY: DEF | DATE: NOV 30, 2023
DWN BY: FH | CKD BY: ABC | SOLICITATION NO.: -
SUBMITTED BY: FH | CONTRACT NO.: -
FILE NAME: CE201 | FILE NUMBER: -
SIZE: 22" x 34" | PLOT SCALE: | PLOT DATE:

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

POND

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA, 30214

EROSION AND SEDIMENT CONTROL PLAN - FINAL PHASE

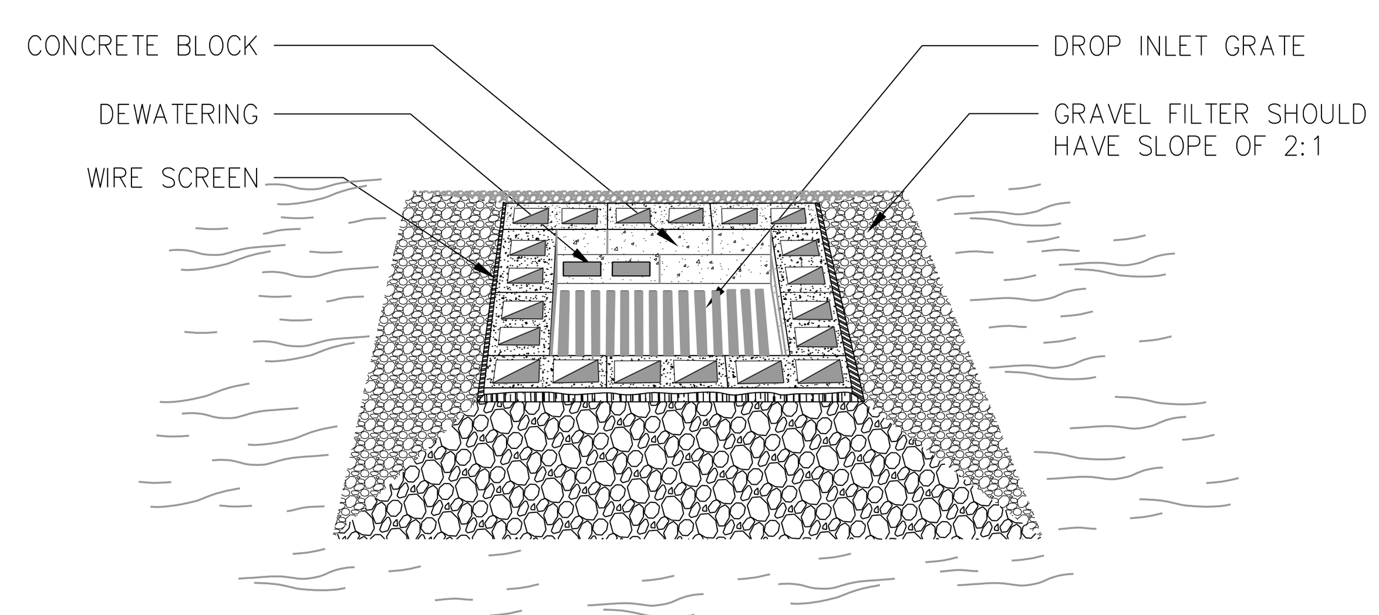
SHEET IDENTIFICATION
CE201

100% DESIGN SUBMITTAL

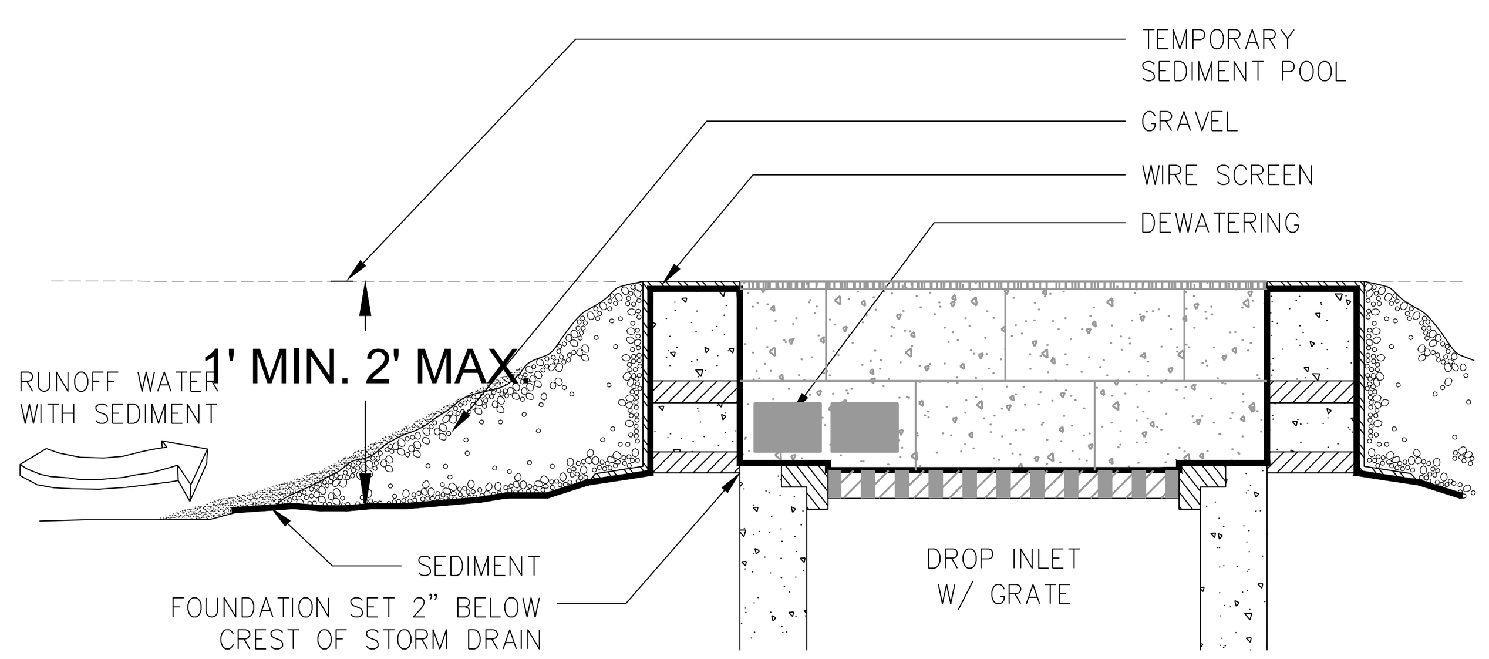
FILE NAME: X:\FY19\1190369\TO07 - Ridge Way 170 Culvert Replacement\04_CAD_BIM\04.02_CAD\CE-101.dwg PLOTTED: Thursday, November 30, 2023

BLOCK AND GRAVEL DROP INLET PROTECTION

BLOCK AND GRAVEL PERSPECTIVE



BLOCK AND GRAVEL SECTION



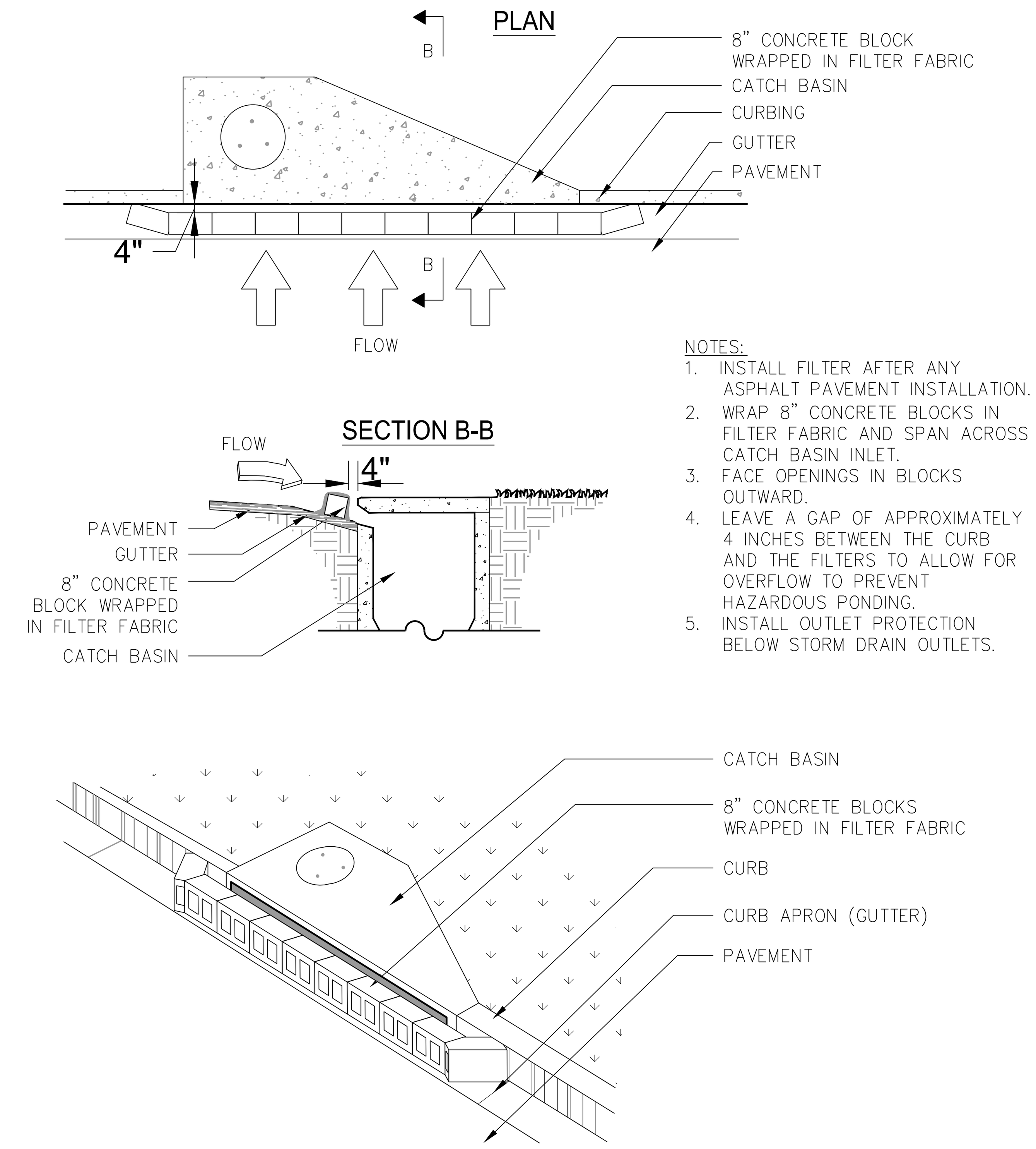
NOTE:

1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½ INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

B1 INLET SEDIMENT TRAP : BLOCK AND GRAVEL DROP INLET PROTECTION

NO SCALE

Sd2-Bg 9



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.

B2 INLET SEDIMENT TRAP FILTER FABRIC

NO SCALE

Sd2-P

MULCHING MATERIAL

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE.

2. WOOD WASTE (CHIPS, SAWDUST, OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH.

3. CUTBACK ASPHALT 9SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ. YD.)

4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION.

APPLYING MULCH

1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.

2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY DECOMPOSITION OF THE ORGANIC MULCHES.

3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.

4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

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

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

2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENING OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.

3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

TABLE 1. Mulching Application Requirements

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

INSTALLATION NOTES:

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

MAINTENANCE NOTES:

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

B4 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

NO SCALE

Ds1

METHODS AND MATERIALS

A. TEMPORARY METHODS

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

VEGETATIVE COVER
SEE TEMPORARY SEEDING.

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

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

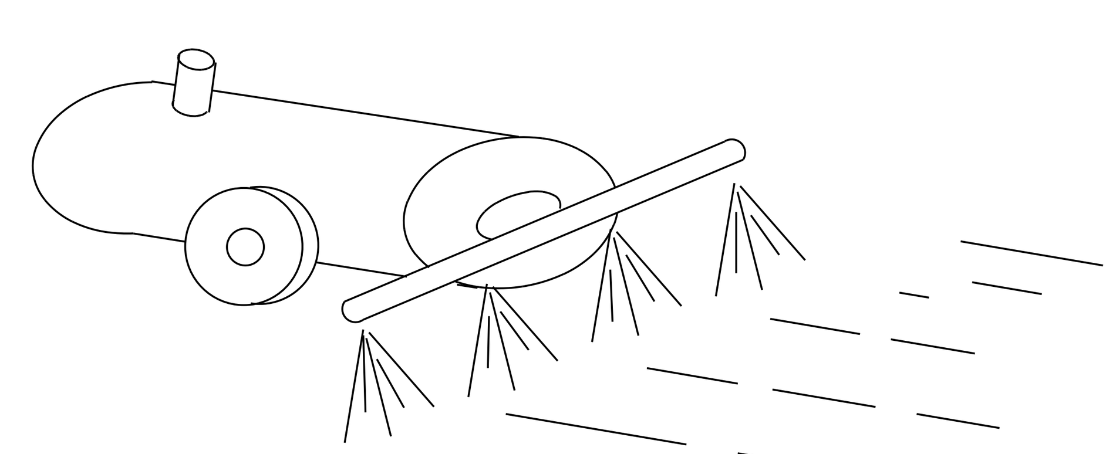
BARRIERS
SOLID BOARD FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

B. PERMANENT METHODS

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

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

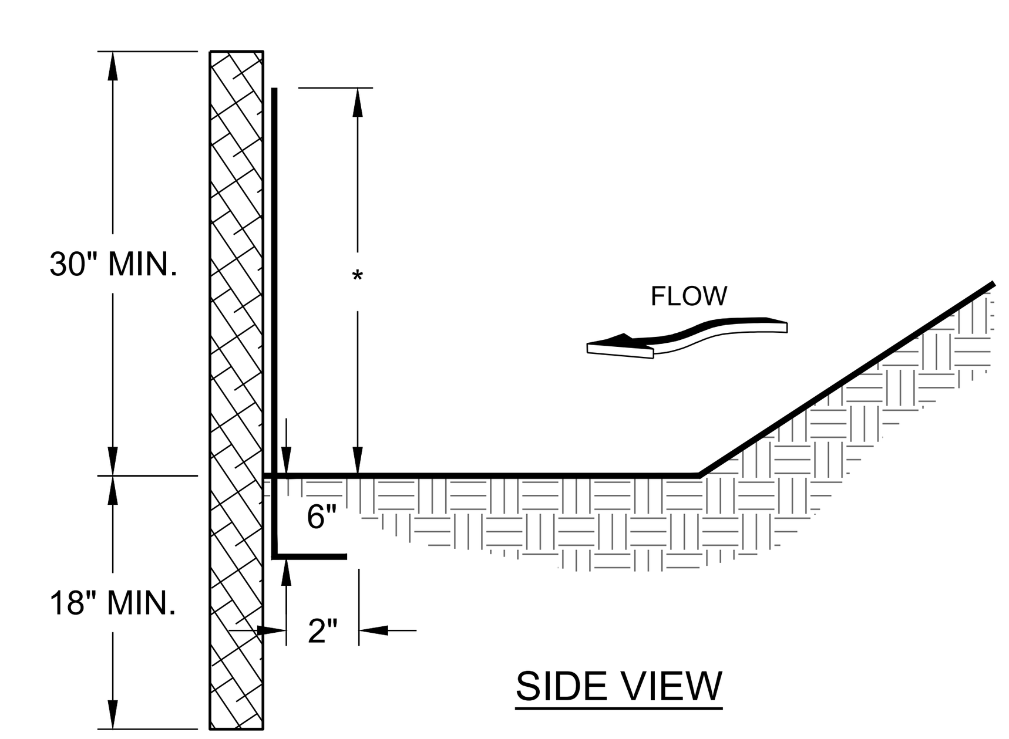
STONE
COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



A1 DUST CONTROL

NO SCALE

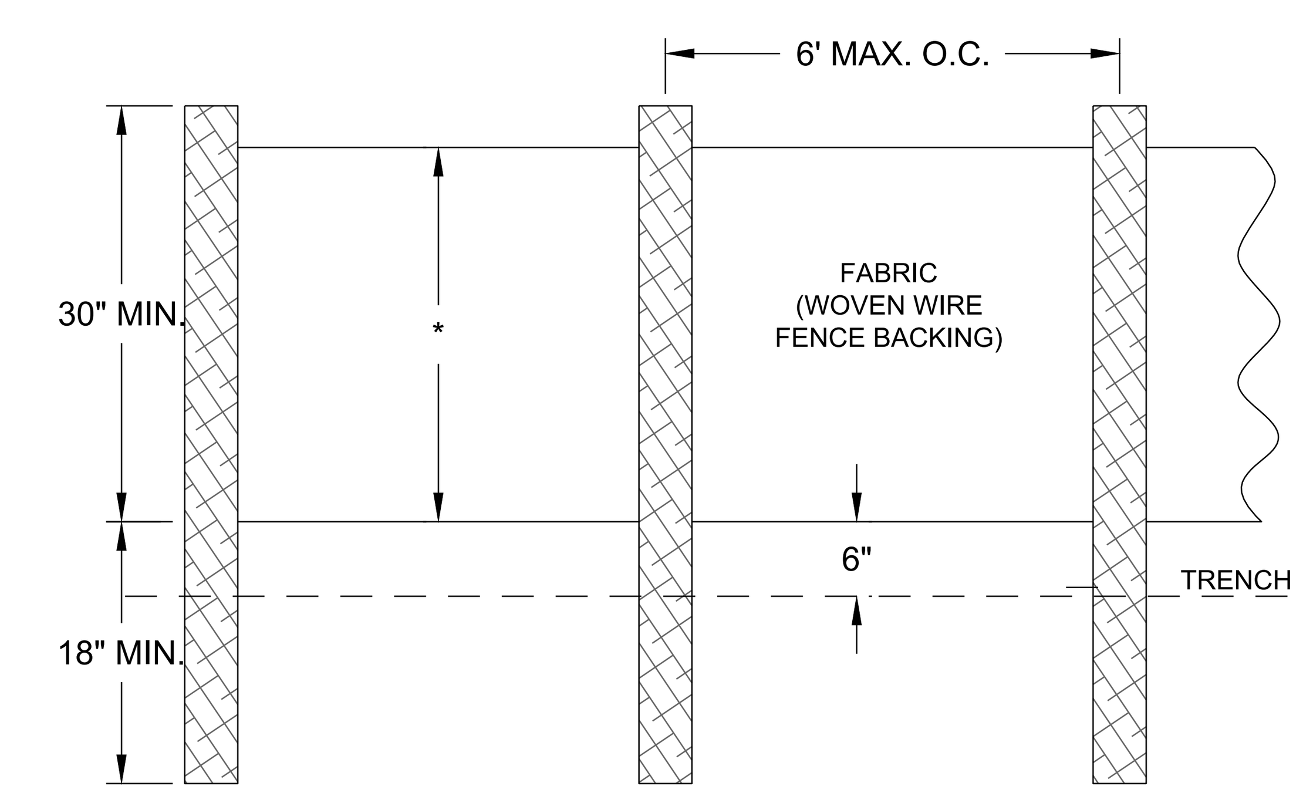
Du



SIDE VIEW

MAINTENANCE

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.



FRONT VIEW

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.

A3 TYPE 'S' SILT FENCE

NO SCALE

Sd1-S

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

FAYETTE COUNTY GEORGIA

REGISTERED PROFESSIONAL ENGINEER No. 27428 DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH		DATE: NOV 30, 2023
DWN BY: ABC	CKD BY: FAH	SOLICITATION NO.: -
SUBMITTED BY: FAH		CONTRACT NO.: -
FILE NAME:		FILE NUMBER: -
SIZE: 22" x 34"	PLOT SCALE:	PLOT DATE:

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

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1193690

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

EROSION CONTROL DETAILS

SHEET IDENTIFICATION
CE501

100% DESIGN SUBMITTAL

TEMPORARY SEEDING:

SEEDBED PREPARATION: WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AMD 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 OTHEWRWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO SEE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OF THE EQUIVALENT PER ACRE (12-16 LBS/1000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SEEDING:
REFER TO TEMPORARY SEEDING CHART THIS PAGE.

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

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

TABLE 2. FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

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

INSTALLATION NOTES:

1. INSTALL ALL E&SC 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 ¼"-½" DEEP.
9. APPLY IN ACCORDANCE WITH SPECIFICATIONS ON THE E&SC 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.

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

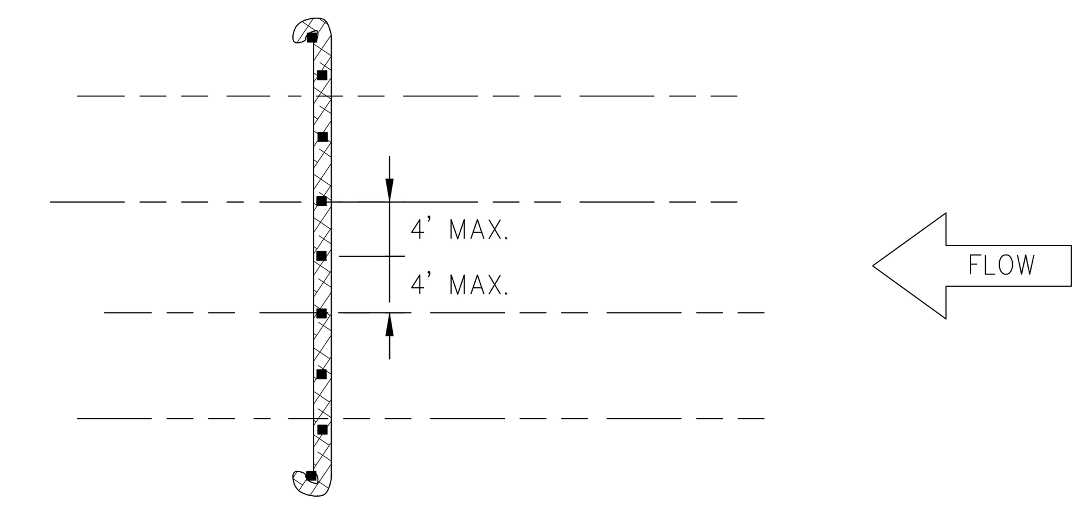
Species	Rates per 1,000 sq. ft.	Rates per Acre	Region M-L (Mountain, Blue Ridge, Ridges and Valley)	Region P (Southern Piedmont)	Region C (Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coastal Flatwoods)
Barley alone	3.3 lbs.	3 bu.	9 Sept. – 31 Oct.	15 Sept. – 15 Nov.	1 Oct. – 31 Dec.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

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIEW 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).

A1 SEEDING SCHEDULE TEMPORARY COVER
NO SCALE
Ds2

COMPOST SOCKS FOR CHECK DAMS

TYPICAL PLAN



NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. PLACE ONE STAKE AT THE CENTER OF THE DITCH/CHANNEL. ALSO PLACE STAKES AT THE BED/BANK JUNCTION AND AT END OF THE DEVICE NOT SPACED MORE THAN 4 FEET APART.
3. SEDIMENT SHOULD BE REMOVED FROM BEHIND THE CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
4. CHECK DAMS CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
5. MINIMUM STAKING DEPTH FOR SAND, SILT, AND CLAY SHALL BE 18".

C3 COMPOST SOCKS FOR CHECK DAMS
NO SCALE
Cd-Fs

DEFINITION

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

CONDITIONS

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

PLANNING CONSIDERATIONS

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

1. IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK USE.
2. REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE LACK OF WEEDS
3. 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

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 SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 -- 30
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

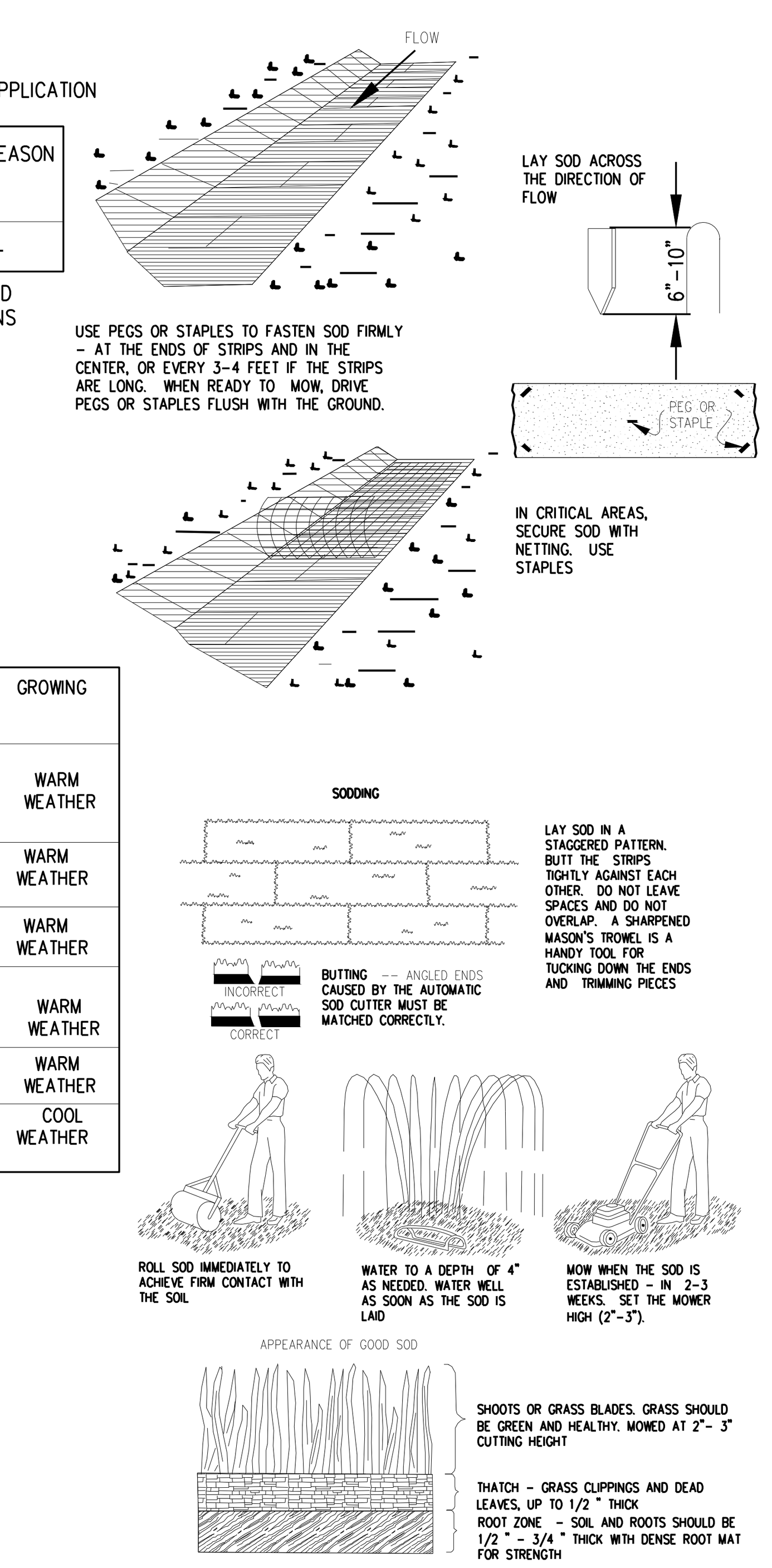
FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

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

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

SOD PLANTING REQUIREMENTS

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



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

A3 DISTURBED AREA STABILIZATION W/ SODDING
NO SCALE
Ds4

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: FAH | DATE: NOV 30, 2023
DWN BY: ABC | CKD BY: FAH | SOLICITATION NO.: -
SUBMITTED BY: FAH | CONTRACT NO.: -
FILE NAME: | FILE NUMBER: -
SIZE: 22" x 34" | PLOT SCALE: | PLOT DATE:

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

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1193690

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214
EROSION CONTROL DETAILS

SHEET IDENTIFICATION
CE502

100% DESIGN SUBMITTAL

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

INSTRUCTIONS

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGION, SUCH THAT WITHIN THE GROWING SEASON A 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. FOR LINEAR CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

PLANNING CONSIDERATIONS

1. USE CONVENTIONAL PLANTING METHODS WHERE POSSIBLE.
2. WHEN MIXED PLANTINGS ARE DONE DURING MARGINAL PLANTING PERIODS, COMPANION CROPS SHALL BE USED.
3. NO-TILL PLANTING IS EFFECTIVE WHEN PLANTING IS DONE FOLLOWING A SUMMER OR WINTER ANNUAL COVER CROP.
4. BLOCK SOD PROVIDES IMMEDIATE COVER. IT IS ESPECIALLY EFFECTIVE IN CONTROLLING EROSION ADJACENT TO CONCRETE FLUMES AND OTHER STRUCTURES. REFER TO Ds-4 DISTURBED AREA STABILIZATION (WITH SODDING).
5. IRRIGATION SHOULD BE USED WHEN THE SOIL IS DRY OR WHEN SUMMER PLANTINGS ARE DONE.
6. LOW MAINTENANCE PLANTS, AS WELL AS NATIVES, SHOULD BE USED TO ENSURE LONG LASTING EROSION CONTROL.
7. MOWING SHOULD NOT BE PERFORMED DURING THE QUAIL NESTING SEASON (MAY TO SEPT.) WILDLIFE PLANTINGS SHOULD BE INCLUDED IN CRITICAL AREA PLANTINGS. SEE MANUAL FOR PLANT LIST.

GRADING & SHAPING

GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT. WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION. CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

LIME AND FERTILIZER APPLICATION

WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INNOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INNOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.

FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS.

1. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
2. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
3. BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
4. A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH TREE SEEDLING.

LIME AND FERTILIZER RATES AND ANALYSIS

AGRICULTURAL LIME IS REQUIRED AT A RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "GROUND LIMESTONE." GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90% OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50% WILL PASS THROUGH A 50-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.

AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINELY GROUND LIMESTONE." FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98% OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70% WILL PASS THROUGH A 100-MESH SIEVE.

IT IS DESIRABLE TO USE DOLOMITIC LIMESTONE IN THE SAND HILLS, SOUTHERN COASTAL PLAIN AND ATLANTIC COAST FLATWOODS MLRA'S. (SEE MANUAL). AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES ARE PLANTED. INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES ARE LISTED IN TABLE 6-5.1.

PLANT SELECTION

REFER TO TABLES 6-4.1, 6-5.2, 6-5.3 AND 6-5.4 FOR APPROVED SPECIES. SPECIES NOT LISTED SHALL BE APPROVED BY THE STATE RESOURCE CONSERVATIONIST OF THE NATURAL RESOURCE CONSERVATION SERVICE BEFORE THEY ARE USED. PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING, METHOD OF PLANTING; AND THE NEEDS AND DESIRES OF THE LAND USER. SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE COMMON BERMUDA, TALL FESCUE AND WEEPING LOVEGRASS. OTHER PERENNIALS SUCH AS BAHIA GRASS AND SERICEA LESPEDEZA ARE SLOW TO BECOME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER PERENNIAL SPECIES. THE ADDITIONAL SPECIES WILL PROVIDE QUICK COVER AND AMPLE SOIL PROTECTION UNTIL THE TARGET PERENNIAL SPECIES BECOME ESTABLISHED. FOR EXAMPLE COMMON SEEDING COMBINATIONS INCLUDE: WEEPING LOVEGRASS WITH SERICEA LESPEDEZA (SCARIFIED) AND TALL FESCUE WITH SERICEA LESPEDEZA (UNSCARIFIED).

PLANT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A COMMON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID-SUMMER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENTS AND GROWING SPACE. A HIGH SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE ESTABLISHMENT OF PERENNIAL SPECIES. RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.

SEED QUALITY

THE TERM "PURE LIVE SEED" IS USED TO EXPRESS THE QUALITY OF SEED AND IS NOT SHOWN ON THE LABEL. PURE LIVE SEED, PLS, IS EXPRESSED AS A PERCENTAGE OF THE SEEDS THAT ARE PURE AND WILL GERMINATE. INFORMATION ON PERCENT GERMINATION AND PURITY CAN BE FOUND ON SEED TAGS. PLS IS DETERMINED BY MULTIPLYING THE PERCENT OF PURE SEED WITH THE PERCENT OF GERMINATION; I.E., PLS = % GERMINATION x % PURITY

THE PERCENT OF PLS HELPS YOU DETERMINE THE AMOUNT OF SEED YOU NEED. FOR EXAMPLE IF THE SEEDING RATE IS 10 POUNDS PLS AND THE BULK SEED IS 56% PLS,

THE BULK SEEDING RATE IS: $\frac{\text{10 LBS. OF PLS / ACRE}}{\text{56\% PLS}}$ = 17.9 LBS / ACRE

YOU WOULD NEED TO PLANT 17.9 LBS/ACRE TO PROVIDE 10 LBS/ACRE OF PURE LIVE SEED.

SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS:

1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 IN. ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
3. TILLAGE SHOULD BE DONE ON THE CONTOUR, WHERE FEASIBLE.
4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 IN. APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING.
2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

INNOCULANTS

ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. THE INNOCULANT SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER. A MIXING MEDIUM RECOMMENDED BY THE MANUFACTURER SHALL BE USED TO BOND THE INNOCULANT TO THE SEED. FOR CONVENTIONAL SEEDING, USE TWICE THE AMOUNT OF INNOCULANT RECOMMENDED BY THE MANUFACTURER. FOR HYDRAULIC SEEDING, FOUR TIMES THE AMOUNT OF INNOCULANT RECOMMENDED BY THE MANUFACTURER SHALL BE USED. ALL INOCULATED SEED SHALL BE PROTECTED FROM THE SUN AND HIGH TEMPERATURES AND SHALL BE PLANTED THE SAME DAY INOCULATED. NO INOCULATED SEED SHALL REMAIN IN THE HYDROSEEDER LONGER THAN ONE HOUR.

PLANTING

HYDRAULIC SEEDING: MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

CONVENTIONAL SEEDING: SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

NO-TILL SEEDING: NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

INDIVIDUAL PLANTS: SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TOPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED.

DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONES PER ACRE.
WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER THE HYDRAULIC SEEDING.
ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 4:1 OR STEEPER SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.

PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS.:
EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT. THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF WATER PER TON OF MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS AND OTHER STRUCTURES FROM ASPHALT DISCOLORATION. 2. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE 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 DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. 3. SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO Tb - TACKIFIERS AND BINDERS. 4. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE. 5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

BEDDING MATERIAL: MULCH USED AS A BEDDING MATERIAL TO CONSERVE MOISTURE AND CONTROL WEEDS IN NURSERIES, ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS.

MATERIAL	DEPTH
GRAIN STRAW	4" TO 6"
GRASS HAY	4" TO 6"
PINE NEEDLES	3" TO 5"
WOOD WASTE	4" TO 6"

IRRIGATION: IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

TOPDRESSING: WILL BE APPLIED ON ALL TEMPORARY AND PERMANENT (PERENNIAL) SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES. RECOMMENDED RATES OF APPLICATION ARE LISTED IN TABLE 6-5.1

SECOND YEAR AND MAINTENANCE FERTILIZATION: SECOND YEAR FERTILIZER RATES AND MAINTENANCE FERTILIZER RATES ARE LISTED IN TABLE 6-5.1

LIME MAINTENANCE APPLICATION: APPLY ONE TON OF AGRICULTURAL LIME EVERY 4 TO 6 YEARS OR AS INDICATED BY SOIL TESTS. SOIL TESTS CAN BE CONDUCTED TO DETERMINE MORE ACCURATE REQUIREMENTS IF DESIRED.

		ANALYSIS OR EQUIVALENT N-P-K		N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 1/ 2/ -- 30
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	0-50 LBS./AC. 1/ -- --
3. GROUND COVERS	FIRST SECOND MAINTENANCE	10-10-10 10-10-10 10-10-10	1300 LBS./AC. 3/ 1300 LBS./AC. 3/ 1100 LBS./AC.	-- -- --
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	--
5. SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700 LBS./AC. 700 LBS./AC. 4/	--
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 LBS./AC.	30 LBS./AC. 5/
7. WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC. 800 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 2/ 6/ 50-100 LBS./AC. 2/ 30 LBS./AC.
8. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50 LBS./AC. 6/

1/ APPLY IN SPRING FOLLOWING SEEDING.
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
3/ APPLY IN 3 SPLIT APPLICATIONS.
4/ APPLY WHEN PLANTS ARE PRUNED.
5/ APPLY TO GRASS SPECIES ONLY.
6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

USE AND MANAGEMENT: MOW SERICEA LESPEDEZA ONLY AFTER FROST TO ENSURE THAT THE SEEDS ARE MATURE. MOW BETWEEN NOVEMBER AND MARCH. BERMUDAGRASS, BAHIAGRASS AND TALL FESCUE MAY BE MOWED AS DESIRED. MAINTAIN AT LEAST 6 INCHES OF TOP GROWTH UNDER ANY USE AND MANAGEMENT. MODERATE USE OF TOP GROWTH IS BENEFICIAL AFTER ESTABLISHMENT. EXCLUDE TRAFFIC UNTIL THE PLANTS ARE WELL ESTABLISHED. BECAUSE OF THE QUAIL NESTING SEASON, MOWING SHOULD NOT TAKE PLACE BETWEEN MAY AND SEPTEMBER.

PLANTS, PLANTING RATES, AND PLANTING DATES

SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE	PER 1000 sq. ft.	RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS — PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.) J F M A M J J A S O N D	REMARKS
BAHIA, PENSACOLA (PASPALUM NOTATUM)			P C		166,000 SEED PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS.
ALONE OR WITH TEMPORARY COVER	60 LBS	1.4 LB			
WITH OTHER PERENNIALS	30 LBS	0.7 LB			
BAHIA, WILMINGTON (PASPALUM NOTATUM)			M-L P		SAME AS ABOVE
ALONE OR WITH TEMPORARY COVER	60 LBS	1.4 LB			
WITH OTHER PERENNIALS	30 LBS	0.7 LB			
BERMUDA, COMMON (CYNODON DACTYLON)			P C		1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
ALONE	10 LBS	0.2 LB			
WITH OTHER PERENNIALS	6 LBS	0.1 LB			
BERMUDA, COMMON (CYNODON DACTYLON)			P C		
UNHULLED SEED					
WITH TEMPORARY COVER	10 LBS	0.2 LB			PLANT WITH WINTER ANNUALS.
WITH OTHER PERENNIALS	6 LBS	0.1 LB			PLANT WITH TALL FESCUE.
BERMUDA SPRIGS (CYNODON DACTYLON)	40 CU. FT OR SOD PLUGS 3' X 3'	0.9 CU. FT.	M-L		A CUBIC FOOT CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 CUBIC FEET OR APPROXIMATELY 800 SPRIGS.
COASTAL, COMMON, MIDLAND, OR TIFT 44					
COASTAL, COMMON, OR TIFT 44			P C		SAME AS ABOVE
TIFT 78			C		SOUTHERN COASTAL PLAIN ONLY.
CENTIPEDE (ERMOCHLOA OPHIUROIDES)	BLOCK SOD ONLY		P C		DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.

PLANTS, PLANTING RATES, AND PLANTING DATES

SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE	PER 1000 sq. ft.	RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS — PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.) J F M A M J J A S O N D	REMARKS
CROWNVETCH (CORONILLA VARIA) WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS	0.3 LB	M-L P		100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. ATTRACTIVE ROSE, PINK, AND WHITE BLOSSOMS SPRING TO LATE FALL. MIX WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE. INOCULATE SEED WITH M INNOCULANT. USE FROM NORTH ATLANTA AND NORTHWARD.
FESCUE, TALL (FESTUCA ARUNDINACEA)			M-L P		227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
ALONE	50 LBS.	1.1 LB.			
WITH OTHER PERENNIALS	30 LBS.	0.7 LB.			
KUDZU (PUERARIA THUMBERGIANA) PLANTS OR CROWNS	3' - 7'- APART		ALL		RAPID AND VIGOROUS GROWTH. EXCELLENT IN GULLY EROSION CONTROL. WILL CLIMB. GOOD LIVESTOCK FORAGE.
LESPEDEZA SERICEA (LESPEDEZA CUNEATA)					
SCARIFIED	60 LBS.	1.4 LB.	M-L P C		350,000 SEED PER POUND. WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROADBANKS. INOCULATE SEED WITH EL INNOCULANT.
UNSCARIFIED	75 LBS.	1.7 LB.	M-L P C		MIX WITH TALL FESCUE OR WINTER ANNUALS.
SEED-BEARING HAY	3 TONS	138 LBS.	M-L P C		CUT WHEN SEED IS MATURE, BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.

PLANTS, PLANTING RATES, AND PLANTING DATES

SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE	PER 1000 SQ. FT.	RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS — PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.) J F M A M J J A S O N D	REMARKS
LESPEDEZA AMBRO VIRGATA (LESPEDEZA VIRGATA DC) OR APPALOW (LESPEDEZA CUNEATA [DUMONT] G. DON)					300,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGEOUS IN URBAN AREAS. SPREADING-TYPE GROWTH. NEW GROWTH HAS BRONZE COLORATION. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, TALL FESCUE OR WINTER ANNUALS. DO NOT MIX WITH SERICEA LESPEDEZA. SLOW TO DEVELOP SOLID STANDS. INNOCULATE SEED WITH EL INNOCULANT.
SCARIFIED	60 LBS	1.4 LB	M-L P C		
UNSCARIFIED	75 LBS	1.7 LB	M-L P C		
LESPEDEZA, SHRUB (LESPEDEZA BICOLOR) (LESPEDEZA THUMBERGII) PLANTS	3' X 3'		M-L P C		PROVIDE WILDLIFE FOOD AND COVER
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L P C		1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS
ALONE	4 LBS	0.1 LB			
WITH OTHER PERENNIALS	2 LBS	0.05 LB			
MAIDENCANE (PANICUM HERMITOMON) SPRIGS	2' X 3' SPACING		ALL		FOR VERY WET SITES. MAY CLOG CHANNELS. DIG SPRIGS FROM LOCAL SOURCES. USE ALONG RIVER BANKS AND SHORELINES.
PANICGRASS, ATLANTIC COASTAL (PANICUM AMARUM VAR. AMARULUM)	20 LBS	0.5 LB	P C		GROWS WELL ON COASTAL SAND DUNES, BORROW AREAS, AND GRAVEL PITS. PROVIDES WINTER COVER FOR WILDLIFE. MIX WITH SERICEA LESPEDEZA EXCEPT ON SAND DUNES
REED CANARY GRASS (PHALARIS ARUNDINACEA)			M-L P		GROWS SIMILAR TO TALL FESCUE
ALONE	50 LBS	1.1 LB			
WITH OTHER PERENNIALS	30 LBS	0.7 LB			
SUNFLOWER 'AZTEC' MAXIMILLIAN (HELIANTHUS MAXIMILIANI)	10 LBS	0.2 LB	M-L P C		227,000 SEED PER POUND. MIX WITH WEEPING LOVEGRASS OR OTHER LOW-GROWING GRASSES OR LEGUMES.

A1 SEEDING SCHEDULE PERMANENT COVER
NO SCALE

Ds3

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

FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED No. 27428 PROFESSIONAL ENGINEER DAVID M. MORGAN 11/30/2023

MARK	DESCRIPTION	DATE	APPR.

DATE: NOV 30, 2023 | SOLICITATION NO.: - | CONTRACT NO.: - | FILE NUMBER: - | PLOT DATE:
DESIGNED BY: FAH | DWN BY: ABC | CKD BY: FAH | SUBMITTED BY: FAH | FILE NAME: | SIZE: 22" x 34" | PLOT SCALE:

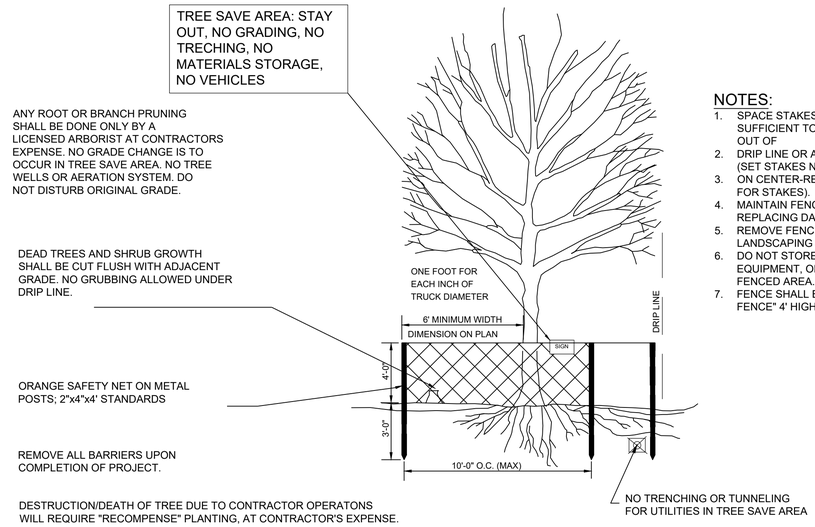
FAYETTE COUNTY
140 STONEWALL AVE W, SUITE 203, FAYETTEVILLE, GA. 30214

POND
3500 Parkway Lane, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7740
Fax (678) 336-7744
POND PROJECT NO. 1193690

RIDGE WAY CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

EROSION CONTROL DETAILS

SHEET IDENTIFICATION
CE503

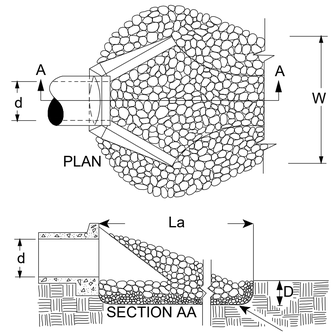


NOTES:

1. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF
2. DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET
3. ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
4. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT
5. REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
6. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
7. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

C1 TREE PROTECTION FENCE — Tr
NO SCALE

PIPE OUTLET TO WELL-DEFINED CHANNEL



NOTES

1. La 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 OF TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

GEOTEXTILE MATERIAL

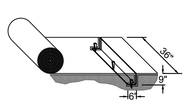
Riprap Apron Summary

(St) ID	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)
UPSTREAM	42" HDPE	88.77	8.41	Min	1.2	1.8	2.7	36	18	42	112.0
DOWNSTREAM	42" HDPE	158.4	13.02	Min	1.2	1.8	2.7	36	18	42	112.0

B3 STORM DRAIN OUTLET PROTECTION — St 15
NO SCALE

UPSTREAM TERMINAL

STEP 1: CUT TERMINAL SLOT
STEP 2: SNUG MAT INTO SLOT
STEP 3:
A. STAKE MAT INTO SLOT
B. USE 1"x3" PRESSURE-TREATED BOARD TO BRACE MAT AGAINST VERTICAL CUT
C. BACKFILL AND COMPACT
STEP 4:
A. REVERSE MAT DIRECTION TO OVERLAY CHECK SLOT
B. STAKE MAT TO ANCHOR TERMINAL



PICTORAL VIEW OF TRANSVERSE SLOT

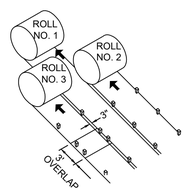
TRANSVERSE CHECK SLOT

STEP 1: CUT CHECK SLOT
TEMPORARILY STAKE MAT UNDER MODERATE TENSION
STEP 2: WORK UPSTREAM ACROSS CHECK SLOT. LAP BACK 15"
STEP 3: TUCK MAT INTO SLOT & STAKE
STEP 4: BACKFILL AND PROGRESS UPSTREAM
PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING

DOWNSTREAM TERMINAL

STEP 1: CUT TERMINAL SLOT
STEP 2: STAKE MAT INTO SLOT
STEP 3: BACKFILL TERMINAL SLOT
STEP 4:
A. ROLL MAT UPSTREAM OVER REFILLED TERMINAL
B. STAKE MAT DOWN TO ANCHOR TERMINAL
C. PROGRESS UPSTREAM WITH ROLL.

1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3' OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.



SEQUENTIAL ROLL RUN OUT IN CHANNELS

A1 TYPICAL INSTALLATION GUIDELINES FOR SLOPE STABILIZATION WITH MATTING AND BALNKETS — Ss
NO SCALE

FAYETTE COUNTY GEORGIA

GEORGIA REGISTERED No. 27428 PROFESSIONAL ENGINEER DAVID M. MORGAN
11/30/2023

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CULVERT REPLACEMENT
FAYETTE COUNTY, GA. 30214

EROSION CONTROL DETAILS

SHEET IDENTIFICATION
CE504

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

100% DESIGN SUBMITTAL

FILE NAME: X:\FY18\1190369\TO07 - Ridge Way 170 Culvert Replacement\04.CAD_BIM\04.02.CAD\CE-501.dwg PLOTTED: Thursday, November 30, 2023