SITE DEVELOPMENT PLANS
FOR
NEWTON COUNTY SENIOR ENRICHMENT CENTER

0008-002H
6244 HIGHWAY 212
COVINGTON, GA 30014
ZONING - AR
IN LAND LOTS 20 & 21 OF THE 10TH LAND DISTRICT

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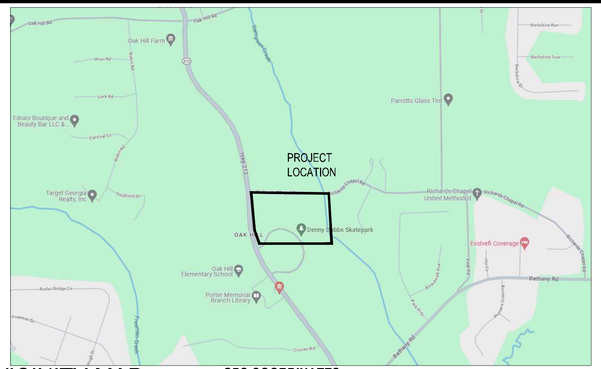
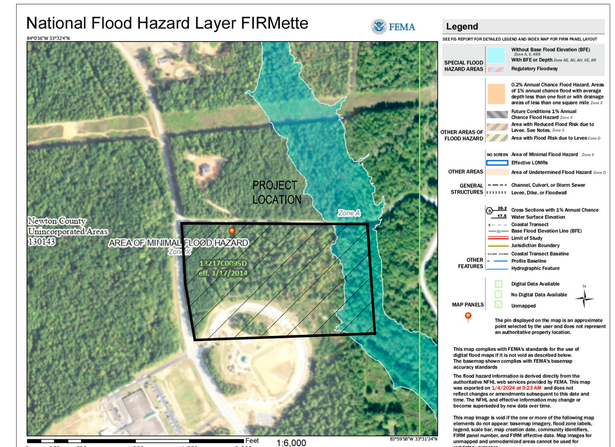
ALPHA SITE SET 08-08-2024



VICINITY MAP
NOT TO SCALE

GPS COORDINATES
N 33°31'50.48" W -84°0'16.58"
N 33.530691 W -84.004607



FLOOD MAP
NOT TO SCALE

LEGEND

STANDARD ABBREVIATIONS

APPROX.= APPROXIMATE
BLDG = BUILDING
BM = BENCH MARK
C&G = CURB AND GUTTER
CI = CURB INLET
C.L. = CHAIN LINK
CMP = CORRUGATED METAL PIPE
CO = CLEAN OUT
CPP = CORRUGATED PLASTIC PIPE
DI = DRAIN INLET
DB = DEED BOOK
DIA = DIAMETER
DS = DOWNSPOUT
DW/CB = DOUBLE WING CATCH BASIN
ESMPC = EROSION, SEDIMENTATION, AND POLLUTION CONTROL
FDC = FIRE DEPARTMENT CONNECTION
FFE = FINISH FLOOR ELEVATION
FH = FIRE HYDRANT
FO = FIBER OPTIC
FT = FEET
GI = GRATE INLET
GM = GAS METER
GP = GUY POLE
GV = GAS VALVE
ICV = IRRIGATION CONTROL VALVE
IE = INVERT ELEVATION
IMP = IMPERVIOUS
IPF = IRON PIN FOUND
JB = JUNCTION BOX
LFA = LOCAL ISSUING AUTHORITY
LP = LIGHT POLE
NTS = NOT TO SCALE
OHE = OVER HEAD POWER
PB = PLAT BOOK
PC = PAGE
PL = PROPERTY LINE
POB = POINT OF BEGINNING
PP = POWER POLE
PVC = POLYVINYL CHLORIDE PIPE
RBF = REBAR FOUND
RCP = REINFORCED CONCRETE PIPE
R/W = RIGHT OF WAY
SMH = STORM MANHOLE
SS = SANITARY SEWER
SSMH = SANITARY SEWER MANHOLE
SWCB = SINGLE WING CATCH BASIN
TC = TRAFFIC CONTROL BOX
TMP = TAX MAP PARCEL
W = WATER
WM = WATER METER
WV = WATER VALVE

STANDARD SYMBOLS

BM = BENCH MARK IDENTIFICATION
CO = CLEAN OUT
DS = DOWN SPOUT
FDC = FIRE DEPARTMENT CONNECTION
FENCE
FH = FIRE HYDRANT
FO = FIBER OPTIC
GAS LINE
GM = GAS METER
GAS VALVE
GATE
GP = GUY POLE
GUY WIRE
H/C PARKING
ICV = IRRIGATION CONTROL VALVE
IPF = IRON PIN FOUND
LB = LIGHT BOX
LP = LIGHT POLE
POWER (OVERHEAD)
POWER (UNDERGROUND)
PB = POWER BOX
PM = POWER METER
PP = POWER POLE
SIGN
SMH = STORM MANHOLE
SWH = SWITCH BOX
SS LINE
SSMH = SANITARY SEWER MANHOLE
TC = TRAFFIC CONTROL BOX
TELECOMM. STRUCTURE
TELE PEDESTAL
TRAFFIC WIRE
TRANSFORMER
WATER LINE
WM = WATER METER
WV = WATER VALVE

CONSTRUCTION SEQUENCE SCHEDULE

LAND DISTURBING ACTIVITY SHALL NOT COMMENCE PRIOR TO A PRECONSTRUCTION MEETING WITH THE LOCAL ISSUING AUTHORITY.

BMPS	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	ACTIVITY
	NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION							
INITIAL								PRECONSTRUCTION MEETING WITH LOCAL ISSUING AUTHORITY
								PERFORM INITIAL MONITORING
								INSTALL CONSTRUCTION EXIT
								INSTALL INITIAL SILT FENCE (PERIMETER SILT FENCE LOCATIONS FIRST)
								PROVIDE ANY INITIAL MULCHING, GRASSING, OR OTHER GROUND COVER
								INSTALL TOPSOIL LOCATION SILT FENCE
								BEGIN CLEARING, GRUBBING, TOPSOILING, AND GRADING OPERATIONS WITHIN LIMITS OF DETENTION POND
								INSTALL EXISTING DETENTION BASIN
								INSTALL APPROPRIATE VEGETATIVE AND STRUCTURAL BMPS (INLET / OUTLET PROTECTION, FVCs, ETC.)
								INSTALL WHEEL WASH AND FUEL STORAGE LOCATION
								COORDINATE SITE REVIEW MEETING WITH ENGINEER AND LOCAL ISSUING AUTHORITY
INTERMEDIATE								INSTALL STORM PIPE SYSTEMS WITH PROTECTED INLETS (SEDS)
								THROUGHOUT LAND DISTURBANCE PROCESS, MAINTAIN EX. BMPS (VEGETATIVE AND STRUCTURAL)
								THROUGHOUT LAND DISTURBANCE PROCESS, CONTINUE NPDES MONITORING AND REPORTING
								COORDINATE WITH UTILITY COMPANIES ON UTILITY / SLEEVE LOCATIONS
								BEGIN REMAINING CLEARING, GRUBBING, TOPSOILING, AND GRADING OPERATIONS
								INSTALL TOPSOIL #1 STOCKPILE LOCATION, MAINTAIN FV GRASS / MULCH, INSTALL ANY REMAINING TOPSOIL LOCATION SILT FENCE
								PERFORM REMAINING GRADING / ADJUST STORM RISERS WITH GRADE CHANGES (& ANY ADJUST ALL SEDS)
								AS NECESSARY BRING TO FINISH GRADE, GRADE IS IMMEDIATELY BEHIND THE FINISH GRADE OF THAT BUILDING/PAVEMENT AREA
								EACH FILL SLOPE SHALL HAVE A DIVERSION AT THE TOP THAT IS MAINTAINED AND REINSTALLED AS THE SLOPE IS CONSTRUCTED
								CONTINUE FLOCCULANT / COAGULANT APPLICATIONS (EVERY 7 DAYS THROUGHOUT PROJECT)
								INSTALL REMAINING STORM SYSTEMS (AS GRADES ARE ACHIEVED)
								IMMEDIATELY INSTALL EACH STORM STRUCTURE WITH ASSOCIATED SEDS AND ADD FLOC LOGS TO EACH STORM STRUCTURE
								GRASS / MULCH / FVCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMPS
								INSTALL SANITARY SEWER MAINS AND SERVICES
								GRASS / MULCH / FVCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMPS
								INSTALL WATER SYSTEM
								GRASS / MULCH / FVCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMPS
								INSTALL REMAINING UTILITIES (POWER, PHONE, CABLE, GAS, ETC.) WITH APPROPRIATE BMPS
								INSTALL GAS THROUGHOUT PARKING AREA UP TO DESIGNATED LINE
								INSTALL REMAINING GAS
								BUILDING CONSTRUCTION
								GRASS / MULCH / FVCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMPS
								INSTALL CURB AND GUTTER
								GRASS / MULCH / FVCs DISTURBED AREAS AND INSTALL ASSOCIATED INTERMEDIATE BMPS
								INSTALL PAVEMENT
								FINISH GRADE SHOULDERS AND STABILIZE DISTURBED AREAS WITH PERMANENT VEGETATION
								CONTINUE TO APPLY FLOCCULENT / COAGULANT APPLICATIONS, MULCHING, AND GRASSING ATEACH STEP TO LIMIT SOIL EXPOSURE
FINAL								THROUGHOUT LAND DISTURBANCE PROCESS, MAINTAIN EX. BMPS (VEGETATIVE AND STRUCTURAL)
								THROUGHOUT LAND DISTURBANCE PROCESS, CONTINUE NPDES MONITORING AND REPORTING
								COMPLETE PAVING OPERATIONS
								ACHIEVE FINAL SITE STABILIZATION
								COORDINATE SITE REVIEW MEETING WITH ENGINEER AND/OR LOCAL ISSUING AUTHORITY INSPECTOR
								CLEAN SILT FROM ALL STORM SYSTEMS (DISTRIBUTE ON SITE AND STABILIZE)
								REMOVE ANY TEMPORARY BMP PRACTICES ONCE SITE STABILIZATION IS ACHIEVED AND SIGNED OFF BY ENGINEER
								COORDINATE SITE REVIEW MEETING WITH ENGINEER FOR FINAL SITE APPROVAL

SILT FENCE TO BE CONSTRUCTED AROUND ENTIRE PERIMETER OF PROJECT AREA PRIOR TO ANY LAND DISTURBING ACTIVITIES. SILT FENCE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED. WORK WITHIN 50' OF STREAM BUFFERS TO BE COMPLETED AND STABILIZED WITHIN 14 DAYS.

SITE INFORMATION

APPROXIMATELY 2.5 ACRES OF THE TOTAL 27.66 AC SITE WILL BE DEVELOPED FOR A SENIOR ENRICHMENT CENTER INCLUDING ASSOCIATED DRIVES, PARKING, STORMWATER SYSTEM, UTILITIES, AND LANDSCAPING.

ZONING - (AS PER NEWTON COUNTY ZONING)	AR
OVERLAY DISTRICTS	NONE
PROPERTY AREA	27.66 AC
DISTURBED AREA	4.70 AC
MINIMUM LOT SIZE	1.0 AC
MINIMUM LOT WIDTH	150'
MINIMUM FRONT SETBACK	60'
MINIMUM SIDE SETBACK	15'
MINIMUM REAR SETBACK	40'
MINIMUM OPEN SPACE	N/A
MAXIMUM IMPERVIOUS %	20%

MISCELLANEOUS INFORMATION

LANDFILLS	NO LANDFILLS EXIST ON THIS SITE
NATURAL & CULTURAL RESOURCES	THERE IS NO CEMETERY, HISTORIC FEATURE, OR ARCHAEOLOGICAL SURVEY ON SITE. THE SITE IS NOT LOCATED WITHIN A GROUNDWATER RECHARGE AREA
SIGNAGE	SIGNAGE SHALL BE HANDLED UNDER A SEPARATE PERMIT
SITE LIGHTING	SITE LIGHTING IS NOT A PART OF THE CIVIL PLANS (SITE WORK CONSTRUCTION DRAWINGS). SIGHT LIGHTING PROVIDED BY OTHERS UNDER SEPARATE COVER
SOIL SERIES	AnB- APPLING SANDY LOAM, 2% TO 6% SLOPES AOC- APPLING SANDY LOAM 6% TO 10% SLOPES CcA- CARTECAY AND CHEWACLA SOILS, FREQUENTLY FLOODED GdB- GEORGEVILLE SILT LOAM, 2% TO 6% SLOPES PaC- POPE SANDY LOAM, 6% TO 10% SLOPES WkD- WEDOWEE SANDY LOAM 10% TO 15% SLOPES
FLOOD PLAIN	THERE IS A FLOODPLAIN ON THIS PROPERTY AS PER FIRM PANEL 13217C0095D DATED 03/7/2014. NO WORK IS BEING DONE WITHIN A FLOODPLAIN. THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X AND IS WITHIN A SPECIAL FLOOD HAZARD AREA.
STATE WATERS	THERE ARE STATE WATERS PRESENT ON THIS SITE. THERE ARE STATE WATERS PRESENT WITHIN 200' OF THIS SITE THERE ARE STREAM BUFFERS ON THIS PROPERTY
HYDROLOGY	THE PROPOSED SITE DEVELOPMENT CONTAINS (1) OVERALL DETENTION BASIN THAT GENERALLY FLOWS FROM THE NORTHWEST TO SOUTHEAST FROM THE PROPOSED DEVELOPMENT AREA TO AN EXISTING DETENTION POND LOCATED ON THE EAST SIDE OF AN EXISTING SKATE PARK. STORM WATER SYSTEMS AND SWALES MULI CONVEY WATER FROM THE DEVELOPED AREA OF THE SITE TO THE EXISTING POND. THE EXISTING POND IS BEING ENLARGED TO ACCOMODATE FOR THE ADDITIONAL RUNOFF GENERATED BY THE PROPOSED DEVELOPMENT. ROADWAY AND PARKING AREA WILL ALSO BE ADDED TO THE EXISTING POND FOR WATER QUALITY TREATMENT FOR THE NEW DEVELOPMENT IMPERVIOUS AREA. THE POND ADJUSTMENTS WILL INCREASE THE POST-DEVELOPMENT PEAK FLOW RATES SUCH THAT THE POST-DEVELOPMENT PEAK FLOW RATES FOR THE 1-YR THROUGH 100-YR STORM EVENTS FOR THE DELINEATED BASIN, CHANNEL PROTECTION PROVISIONS AND WATER QUALITY PROVISIONS HAVE BEEN PROVIDED WITHIN THE DETENTION BASIN BY MODIFYING THE EXISTING OUTLET CONTROL STRUCTURE.
WETLAND	**THERE ARE NO WETLANDS BEING DISTURBED ON THIS SITE.** THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLANDS INVENTORY MAPS HAVE BEEN CONSULTED AND, 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE WETLANDS AS SHOWN ON THE MAP. AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR, UNLESS APPROPRIATE FEDERAL WETLANDS ALTERATION (SECTION 404) PERMIT HAS BEEN OBTAINED. IF WETLANDS ARE IMPACTED BY THIS DEVELOPMENT, A CORPS OF ENGINEERS PERMIT SHALL BE OBTAINED PRIOR TO DISTURBANCE. ONCE ATTAINED, A COPY OF THE WETLAND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES. UPON THE CORPS OF ENGINEERS APPROVAL, A SEPARATE COPY OF THE PERMIT SHALL BE SUBMITTED TO THE LIA.

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
ADDRESS: 1124 CLARK STREET
COVINGTON, GA 30014
PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL:JPRINE@ASCENSION-PM.COM

CONTRACTOR
COMPANY: SULBELT BUILDERS
ADDRESS: 10641 HWY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY
PHONE: 404.644.2939
EMAIL: MMCCROREY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
MIKE MCCRORY
404.644.2939

GEORGIA811 www.Georgia811.com
Contact 811 before you dig

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

georgia civil
CIVIL ENGINEERING
LAND PLANNING
LAND SURVEYING
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Professional Seal
GEORGIA REGISTERED NO. PE024855 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title
COVER SHEET

Sheet Number
CV-1.0

LIDAR DISCLAIMER:

LIDAR FLIGHT DATE: 12/12/2023

TOPOGRAPHIC INFORMATION SHOWN WAS GENERATED UTILIZING AIRBORNE LIDAR (LIGHT DETECTION AND RANGING). LIDAR IS A REMOTE SENSING METHOD THAT USES LIGHT IN THE FORM OF A PULSED LASER TO GENERATE A THREE-DIMENSIONAL POINT CLOUD OF THE GROUND SURFACE AND FEATURES ON IT. THE HORIZONTAL DATUM SHOWN HEREON WAS ESTABLISHED USING GLOBAL POSITIONING SYSTEMS AND SHOWN UTILIZING THE NORTH AMERICAN DATUM OF 1983 (NAD 83) - STATE PLANE COORDINATE SYSTEM - GEORGIA - WEST ZONE. THE VERTICAL DATA SHOWN HEREON IS PROJECTED IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) VERTICAL REFERENCE FRAME TRANSFORMED USING GEOID MODEL GEOID18. DUE TO A LIMITED NUMBER OF COMPLETE LACK OF LIDAR RETURNS IN AREAS OF THICK VEGETATION OR AREAS INUNDATED WITH WATER, SUCH AS LAKES, PONDS, WETLANDS, CREEKS, AND STREAMS, THE DATA SHOWN IN THESE AREAS MAY BE UNRELIABLE AND MAY NOT REFLECT THE TRUE GROUND SURFACE. IN THE EVENT THESE AREAS ARE DEEMED CRITICAL, ADDITIONAL GROUND RUN TOPOGRAPHIC INFORMATION MAY BE REQUIRED.

THIS PLAT CONSTITUTES A TOPOGRAPHICAL SURVEY ONLY AND DOES NOT CONSTITUTE A BOUNDARY SURVEY. THE SURVEYOR'S CERTIFICATION EXTENDS ONLY TO THE TOPOGRAPHIC ASPECTS. THIS PLAT SHALL NOT BE RECORDED NOR USED TO CONVEY PROPERTY. THE BOUNDARY INFORMATION, AS SHOWN, WAS TAKEN FROM A PLAT AND SURVEY BY LOUIE D. PATRICK, DATED 11/03/1992 AND RECORDED IN PLAT BOOK 34, PAGE 270, NEWTON COUNTY RECORDS.

GRAPHIC SCALE
0 50 100 150
(IN FEET) SCALE: 1" = 50'

SURVEY NOTES:

1. THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS AND THE BASED REFERENCE FRAME ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY EGPS SOLUTIONS. THE HORIZONTAL DATUM IS GEORGIA STATE PLANE WEST ZONE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. SUBJECT AND ADJACENT PROPERTY OWNERS' DEED AND PLAT REFERENCES WERE OBTAINED BY GEORGIA CIVIL, INC. AND ARE NOT GUARANTEED AS TO ACCURACY NOR COMPLETENESS.
4. ALL DEED AND PLAT BOOK REFERENCES AS SHOWN HEREON ARE RECORDED IN THE CLERK OF SUPERIOR COURT'S OFFICE OF NEWTON COUNTY, GEORGIA.
5. STRUCTURES VISIBLE ON THE DATE OF THE SURVEY ARE AS SHOWN HEREON. ALL LOCATIONS ARE ACCURATE ONLY WHERE DIMENSIONED.
6. A PORTION OF THIS PROPERTY IS LOCATED IN ZONE "A" AND IS SHOWN TO BE LOCATED WITHIN THE LIMITS OF A SPECIAL FLOOD HAZARD AREA, PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP NO. 13217C0060C EFFECTIVE DATE: 03/17/2014. THIS STATEMENT IS BASED ON GRAPHICALLY LOCATING THE SUBJECT PROPERTY ON SAID MAP. NO ADDITIONAL FIELD WORK HAS BEEN COMPLETED TO VERIFY THIS INFORMATION.
7. THIS CERTIFICATION, AS SHOWN HEREON, IS PURELY A STATEMENT OF PROFESSIONAL OPINION BASED ON KNOWLEDGE, INFORMATION AND BELIEF, BASED ON EXISTING FIELD EVIDENCE AND DOCUMENTARY EVIDENCE AVAILABLE. THE CERTIFICATION IS NOT AN EXPRESSED OR IMPLIED WARRANTY OR GUARANTEE.
8. THE TERM "CERTIFICATION" AS USED IN RULE 180-6-.09(2) AND (3)" AND RELATING TO PROFESSIONAL ENGINEERING OR LAND SURVEYING SERVICES, AS DEFINED IN O.C.G.A. 43-15-2(6) AND (11), SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED.
9. THIS SURVEY COMPLIES WITH BOTH THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 15-6-67, IN THAT WHERE A CONFLICT EXISTS BETWEEN THOSE TWO SETS OF SPECIFICATIONS, THE REQUIREMENTS OF LAW PREVAIL.
10. UTILITIES, AS SHOWN HEREON, ARE BASED ON ABOVE GROUND VISIBLE EVIDENCE ONLY. THE SURVEYOR DOES NOT WARRANT THE EXACT SIZE, TYPE, LOCATION, ACCURACY OR THOROUGHNESS OF THE INFORMATION CONCERNING THE ABOVE/UNDERGROUND UTILITIES AND STRUCTURES. NO GUARANTEE IS MADE THAT OTHER UTILITIES MAY EXIST ON THE SITE, THAT MAY NOT BE SHOWN.
11. THE FIELD DATA UPON WHICH THIS MAP OR PLAT IS BASED HAS AN AVERAGE RELATIVE ACCURACY OF 0.03 FEET AT A 95% CONFIDENCE LEVEL AND HAS NOT BEEN ADJUSTED. THIS PLAT HAS NOT BEEN CALCULATED FOR CLOSURE. THE LINEAR AND ANGULAR MEASUREMENTS SHOWN ON THIS PLAT WERE OBTAINED BY UTILIZING A GEOMAX ROBOTIC TOTAL STATION AND A CARLSON BRX7 GPS UNIT (MF0#182.168.10.1) IN THE PREPARATION OF THIS PLAT. THE FIELD MEASUREMENTS WERE COMPLETED ON 12/18/2023.
12. THIS PROPERTY IS SUBJECT TO ALL RIGHT OF WAYS AND EASEMENTS OF RECORD.
13. IN MY OPINION, THIS IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW.
14. THIS PLAT HAS BEEN COMPLETED FOR THE USE AND PURPOSE OF THE CLIENT ASCRIBED AND CONTRACTED WITH HEREON. ALL OTHER PARTIES ARE SUBSEQUENTLY PUT ON NOTICE AS TO THE LIMITED DEGREE OF RELIANCE UPON THIS PLAT BY THIRD PARTIES.

SITE MAP
N.T.S.

ZONED: A-R
TMP: 0008 002K
JOSEPH D. SAUNDERS
DB 3540, PG 229

ZONED: A-R
TMP: 0008 002L
JOSEPH D. SAUNDERS
DB 4119, PG 398

ZONED: A-R
TMP: 0008 002M
DAVE BLAKE
DB 4117, PG 105

50' R/W RICHARDS CHAPEL ROAD
(PB 34, PG 270)

VARIABLE R/W GEORGIA HIGHWAY 212

TREE SAMPLE AREA 1

TREE SAMPLE AREA 2

ZONED: AR
TMP: 0008 002H
NEWTON COUNTY
BOARD OF COMMISSIONERS
DB 2228, PG 487

ZONED: AR
TMP: 0008 001B
NEWTON COUNTY
BOARD OF COMMISSIONERS
DB 2420, PG 240

APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE "A"

ZONE "X"

APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE "A"

APPROX. L.L.L.

LEGEND

☆	= CONCRETE MONUMENT FOUND
■	= COMPUTED POINT
○	= IRON PIN SET (1/2" REBAR)
●	= IRON PIN FOUND
⊕	= DECIDUOUS TREE
✱	= EVERGREEN TREE
⊹	= FIRE HYDRANT
▥	= TELEPHONE PEDESTAL
●PP	= POWER POLE
⊸	= GUY ANCHOR/WIRE
⊸	= SIGN
⊛	= WATER VALVE
---GAS---	= GAS LINE
---OHP---	= OVERHEAD POWER
---UT---	= UNDERGROUND TELEPHONE
---W---	= WATER LINE
---X---	= FENCE LINE
APPROX.	= APPROXIMATE
CMF	= CONCRETE MONUMENT FOUND
DB	= DEED BOOK
EX.	= EXISTING
FH	= FIRE HYDRANT
HRDW	= HARDWOOD TREE
HW	= HEADWALL
L.L.	= LAND LOT
L.L.L.	= LAND LOT LINE
NTS	= NOT TO SCALE
OTF	= OPEN TOP FOUND
℄	= PROPERTY LINE
PB	= PLAT BOOK
PG	= PAGE
R/W	= RIGHT OF WAY
RBF	= REBAR FOUND
WV	= WATER VALVE

GEORGIA 811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

ALPHA SITE SET 08-08-2024

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THE SURVEY WAS PREPARED IN CONFORMITY WITH THE TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN CHAPTER 180-7 OF THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 15-6-67, AS AMENDED BY HB1004 (2016).
CERTIFICATE OF AUTHORIZATION LSF001055

Project Information

SURVEY FOR:
NEWTON COUNTY BOARD OF COMMISSIONERS
IN LAND LOTS 20 & 21 OF THE 10th LAND DISTRICT
NEWTON COUNTY, GEORGIA

CREW CHIEF:	TG
SURVEYED:	12/18/2023
PROJECT #:	23SBB012
DRAWING DATE:	12/20/2023
DRAWN BY:	MP
CHECKED BY:	GBS

REVISIONS

DATE:	DESCRIPTION:
01/10/2024	TREE SURVEY
SCALE:	1"=50'

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Sheet Title

TOPOGRAPHICAL AND EXISTING CONDITIONS SURVEY

Sheet Number

TS-1

GEORGIA PROFESSIONAL LAND SURVEYOR, RLS#2629

GENERAL NOTES:

1. ALL UTILITY INSTALLATION SHALL BE IN ACCORDANCE WITH NEWTON COUNTY WATER AND SEWER STANDARDS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND REVIEWING SAID STANDARDS AND SPECIFICATIONS.
2. NOTIFY NEWTON COUNTY INSPECTION 24 HRS BEFORE BEGINNING OF CONSTRUCTION.
3. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION PLANS AND BE FAMILIAR WITH EXISTING CONDITIONS BY SITE VISITATION, PRIOR TO FORMULATING BID.
4. CONTRACTOR SHALL VERIFY CONDITIONS AND DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCY FOUND IN THIS SET SHALL BE REFERRED TO THE SITE DESIGN PROFESSIONAL BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR DISCREPANCIES WHICH ARE NOT REPORTED.
5. CONSTRUCTION SHALL MEET OR EXCEED NEWTON COUNTY MINIMUM STANDARDS AND SPECIFICATIONS.
6. CONTRACTOR SHALL ADHERE TO NORMAL WORKING HOURS AS PER NEWTON COUNTY ORDINANCES. CONSTRUCTION OUTSIDE OF NORMAL WORKING HOURS, MAY BE ALLOWED UPON PRIOR APPROVAL BY NEWTON COUNTY
7. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL ADHERE TO FEDERAL, STATE, COUNTY AND LOCAL LAWS, ORDINANCES, AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF WORK, INCLUDING, BUT NOT LIMITED TO, INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK (I.E. THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)). CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD NEWTON COUNTY, AND ITS AGENTS, THE OWNER AND THE SITE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
9. DO NOT BREAK THESE DOCUMENTS INTO PARTS AND SUB-PARTS. THE SITE DESIGN PROFESSIONAL AND OWNER ASSUMES NO RESPONSIBILITY FOR THE SEPARATION OF THESE DOCUMENTS BY ANY ENTITY OF THE CONTRACTING INDUSTRY. EACH CONTRACTING ENTITY SHALL BE RESPONSIBLE FOR ALL OF THE WORK RELATED TO THEIR TRADES WHEREVER IT MAY BE SHOWN WITHIN THE CONTRACT DOCUMENT PACKAGES.
10. NO WORK SHALL BE PERFORMED WITHIN GEORGIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY (IF APPLICABLE) UNTIL PERMIT(S) (INCLUDING GEORGIA DEPARTMENT OF TRANSPORTATION UTILITY ENCROACHMENT PERMIT) ARE OBTAINED FROM GEORGIA DEPARTMENT OF TRANSPORTATION AND ON SITE.
11. BARRICADES, SUFFICIENT LIGHTS, TRAFFIC SAFETY SIGNS, AND OTHER TRAFFIC CONTROL MEASURES AS DEEMED NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION ON ROADS ACCESSED BY THE GENERAL PUBLIC.
12. SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR EACH SIGN.
13. NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL SITE IMPROVEMENTS ARE COMPLETE.
14. ACCESS TO BUILDINGS DURING CONSTRUCTION SHALL BE MAINTAINED AND OPEN TO EMERGENCY VEHICLES AT ALL TIMES, THROUGH THE USE OF EXISTING OR TEMPORARY ROADS, DRIVES AND/OR WALKS.
15. SITE LIGHTING SHALL BE FULLY SHIELDED. SITE LIGHTING IS TO BE DESIGNED BY OTHERS.
16. ALL WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY CONTRACTOR.
17. CONTRACTOR IS RESPONSIBLE FOR QUANTITY TAKE OFFS AND ESTIMATING ALL QUANTITIES FOUND WITHIN THE SITE WORK CONSTRUCTION DRAWINGS. ANY QUANTITY TAKE OFFS OR ESTIMATES PROVIDED BY THE SITE DESIGN PROFESSIONAL ON THESE DOCUMENTS OR OTHERWISE SHALL BE VERIFIED BY THE CONTRACTOR BY PERFORMING HIS/HER OWN QUANTITY TAKE OFF AND/OR ESTIMATE. ANY COST OVERRUN DUE TO DISCREPANCY IN QUANTITY TAKE OFF OR ESTIMATE PROVIDED BY SITE DESIGN PROFESSIONAL AND INCLUDED CONSTRUCTION QUANTITIES SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE SITE DESIGN PROFESSIONAL AND/OR OWNER AND/OR OWNERS REPRESENTATIVE

DEMOLITION REQUIREMENTS:

1. THE CONTRACTOR SHALL INSPECT ALL STRUCTURES, FACILITIES, AND AREAS SLATED FOR DEMOLITION TO GAIN A FULL UNDERSTANDING OF THE WORK REQUIRED. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS HE/SHE DEEMS NECESSARY FOR PROTECTING HIS/HER EMPLOYEES AND AGENTS DURING THE INSPECTION AND SUBSEQUENT WORK. THE OWNER, CLIENT AND SITE DESIGN PROFESSIONAL ARE NOT RESPONSIBLE FOR THE CONDITION OF THE BUILDINGS, FACILITIES, OR OTHER AREAS SLATED FOR DEMOLITION.
2. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE OWNER TO DEMOLISH ANY STRUCTURE ON THE SITE BEFORE PROCEEDING WITH WORK.
3. ALL WORK PERFORMED ON THE SITE SHALL ADHERE TO ALL (OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION SAFETY STANDARDS.
4. ALL MATERIALS NOT SLATED FOR REUSE SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER. THE CONTRACTOR MAY SALVAGE ALL MATERIALS NOT DESIGNATED BY THE OWNER TO BE SAVED. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND STORE SAFELY ALL MATERIALS SLATED TO BE SAVED OR REUSED. THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS USING PHOTOGRAPH PRIOR TO START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR OR REPLACE MATERIALS DAMAGED DUE TO HIS WORK OR FAILURE TO PROTECT THROUGHOUT THE DURATION OF HIS CONTRACT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL APPROPRIATE UTILITY OWNERS, OPERATORS AND USERS PRIOR TO DISCONNECTION AND DEMOLITION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. ALL PLUGS, STOPS, AND CAPS SHALL BE PER AGENCIES REQUIREMENTS AND 7 MONE EXIST THEN A 3000 PSI CONCRETE PLUG WITH A THICKNESS EQUAL TO THE DIAMETER OF THE PIPE SHALL BE USED.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY AND STOP ALL WORK IN AREAS WHERE HAZARDOUS MATERIALS ARE DISCOVERED. WHEN ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE ENVIRONMENTAL AND HEALTH AGENCIES. THE CONTRACTOR SHALL FLAG OFF ALL ACCESS WITH SUFFICIENT FLAGGING THAT THERE IS AN APPARENT WARNING OF THE PRESENCE OF HAZARDOUS MATERIALS.
7. NO BURNING, EXPLOSIVES OR OTHER POTENTIALLY DANGEROUS METHODS OF DEMOLITION SHALL BE ALLOWED UNLESS WRITTEN PERMISSION IS GRANTED BY THE OWNER AND ALL APPROPRIATE PERMITS ARE GRANTED.
8. THE CONTRACTOR SHALL PROVIDE WHAT EVER SAFETY EQUIPMENT AND DEVICES ARE NECESSARY TO PROTECT THE ADJACENT PROPERTIES, STRUCTURES AND OTHER AREAS SLATED TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR OR REPLACE ANY DAMAGE CAUSED BY HIS/HER WORK. THIS SHALL ALSO INCLUDE EROSION CONTROL, DUST CONTROL, AND SETTLEMENT.
9. ALL AREAS SHALL BE BROUGHT BACK TO THEIR ORIGINAL GRADE OR THAT OF THE SURROUNDING AREA WHICH EVER IS CLOSER TO THE FINAL GRADES OF THE PROJECT FOR THAT AREA. ALL TEMPORARY SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL. ALL AREAS REQUIRING FILL SHALL BE COMPACTED TO THE REQUIREMENTS OF THE AREA BUT IN NO CASE LESS THAN 90% OF MODIFIED PROCTOR (ASTM D 1557).
10. THE CONTRACTOR SHALL PROVIDE NECESSARY EROSION CONTROL MEASURES DURING THE DEMOLITION AND REMOVAL OF EXISTING SITE FEATURES.
11. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES.
12. EXISTING BUILDINGS, APPURTENANCES, CANOPIES AND FOUNDATIONS ON THE PROPERTY SHALL BE PROTECTED UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL MAINTAIN SAFE, CLEARLY MARKED PEDESTRIAN ACCESS ROUTES TO BUILDING ENTRANCES THROUGHOUT ALL PHASES OF CONSTRUCTION. ACCESS TO BUILDINGS SHALL BE MAINTAINED AT ALL TIMES.
14. SERVICES SHOWN ARE TO ASSIST CONTRACTOR IN LOCATING UTILITIES. ITEMS ARE SHOWN SCHEMATICALLY AND NEITHER THE ARCHITECT, SITE DESIGN PROFESSIONAL NOR THE OWNER ASSUMES ANY RESPONSIBILITY FOR VARIANCES IN THE ACTUAL LOCATION OF THE EXISTING UTILITIES.
15. THE CONTRACTOR SHALL REPAIR OR REPLACE AS NECESSARY ANY UTILITIES DAMAGED. WHETHER SHOWN ON THESE PLANS OR NOT, AT NO ADDITIONAL COST TO THE CONTRACT.
16. EXISTING UTILITY APPURTENANCES (CLEAN OUTS, VALVE METER BOXES AND/OR COVERS, MANHOLES, ETC.) LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED AS NECESSARY OR ADJUSTED TO FINISHED GRADE AT THE EXPENSE OF THE CONTRACTOR.
17. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY PROVIDER OF DAMAGE TO ANY ACTIVE UTILITY AND PROVIDE CORRECTIVE MEASURES AS DIRECTED BY THE UTILITY PROVIDER AT NO ADDITIONAL COST TO THE CONTRACT.
18. EXISTING ITEMS TO REMAIN WITHIN THE PROJECT LIMITS SHALL BE RETAINED IN PLACE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION, UNLESS OTHERWISE NOTED OR DIRECTED BY THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
19. ALL DISPOSAL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES.
20. THERE SHALL BE NO ON SITE BURIAL.
21. WORK DONE AHEAD OF SCHEDULE OR FOR TEMPORARY PROVISIONS SHALL HAVE EXISTING DISTURBED SURFACES PATCHED TO MATCH ORIGINAL CONDITIONS UNTIL NEW CONSTRUCTION REPLACES SUCH REPAIRS OR MODIFICATIONS.
22. PAVEMENT AREAS TO BE SAWED SHALL BE ABRASION SAW CUT PRIOR TO DEMOLITION. FAILURE TO PROVIDE A CLEAN EDGE MAY RESULT IN ADDITIONAL DEMOLITION AND NEW PAVEMENT INSTALLATION FEE FOR AND EXECUTED BY THE CONTRACTOR.
23. LIMITS OF CURB AND GUTTER DEMOLITION ARE SUBJECT TO THE NEAREST CONSTRUCTION JOINT. CURB AND GUTTER AND WALKS SHALL BE REPAIRED TO THE NEAREST CONSTRUCTION JOINT.
24. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE REMOVAL OF EXISTING LANDSCAPE MATERIALS OR SITE FEATURES WHICH THE OWNER ELECTS TO RETAIN.
25. DEMOLITION WITHIN THE DRIP LINE OF EXISTING SPECIMEN TREES SHALL BE ACCOMPLISHED UTILIZING MANUAL PROCEDURES WITHOUT DAMAGING THE ROOT SYSTEM OF THE TREE(S).
26. THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION DESIGNATIONS AND NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTORS RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO PERFORM THE DEMOLITION AS REQUIRED TO ACCOMMODATE THE SCHEDULED NEW CONSTRUCTION.

STAKING REQUIREMENTS:

1. SURVEYING WORK PERFORMED BY THE CONTRACTOR SHALL BE SUFFICIENT AND ACCURATE TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE SITE WORK CONSTRUCTION DRAWINGS. LAYOUT AND STAKING WORK SHALL BE IN ACCORDANCE WITH GENERAL ACCEPTED SURVEYING PRACTICES AND PROVISIONS OF THE CONTRACT.
2. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS. CONTRACTOR SHALL NOT STAKE BUILDING DIMENSIONS FROM THE BUILDING(S) SHOWN ON THE SITE WORK CONSTRUCTION DRAWINGS. REFERENCES IN THESE DOCUMENTS TO BUILDING SQUARE FOOTAGES ARE FOR OWNER'S PURPOSES ONLY. DO NOT RELY ON THESE NUMBERS FOR ANY OTHER PURPOSE.
3. CONTRACTOR SHALL STAKE BUILDING CORNERS AND HAVE APPROVAL FROM THE ARCHITECT AND/OR SITE DESIGN PROFESSIONAL BEFORE COMMENCING THE CONSTRUCTION OF ANY FOOTINGS.
4. DIMENSIONS SHOWN ARE TO THE FACE OF CURB(S), UNLESS OTHERWISE NOTED. ANGLES ARE 90° (INCLUDING STREET CENTERLINES) UNLESS NOTED OTHERWISE.
5. CURB AND GUTTER RADII ARE 5.0 FT, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND OR PERPETUATION OF EXISTING RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS (AS APPLICABLE) WITHIN THE CONTRACTORS AREA OF WORK. THE CONTRACTOR SHALL NOT DISTURB OR REMOVE EXISTING RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS WITHOUT THE PERMISSION OF NEWTON COUNTY. CONTRACTOR SHALL BEAR THE EXPENSE OF RESETTING EXISTING RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS WHICH MAY BE DISTURBED OR REMOVED (SO WITH OR WITHOUT PERMISSION. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 15 WORKING DAYS NOTICE TO THE NEWTON COUNTY PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS. THE CONTRACTOR SHALL UTILIZE THE SERVICES OF A GEORGIA LICENSED LAND SURVEYOR TO RESET DISTURBED OR REMOVED RIGHT-OF-WAY MONUMENTS, BENCHMARKS CONTROL POINTS AND REFERENCE MARKS OR PROVIDE WITNESS MONUMENTS, AND FILE THE REQUIRED DOCUMENTATION WITH NEWTON COUNTY.
7. THE CONTRACTOR (UNLESS OTHERWISE INSTRUCTED BY THE OWNER) SHALL PROVIDE STAKING AND LAYOUT SERVICES, INCLUDING BUT NOT LIMITED TO, CENTERLINE STAKES, ADDITIONAL LINES, CONNECTIONS, RAMPS, SLOPE STAKES, GRADE STAKES, CONSTRUCTION BENCHMARKS AND REFERENCE STAKES LOCATING DRAINAGE, ROADWAY, AND UTILITIES NECESSARY FOR THE PROJECT. ALIGNMENT POINTS, ESTABLISHED BY THE CONTRACTOR, SHALL BE REFERENCED AND A COPY OF THE REFERENCES SHALL BE FURNISHED TO THE SITE DESIGN PROFESSIONAL.
8. THE CONTRACTOR SHALL VERIFY ALL INVERTS OF EXISTING STORM AND SANITARY SEWER TIE-INS AND ALL GRADES AT EXISTING PAVEMENT TIE-INS BEFORE PROCEEDING WITH ANY SITE WORK.
9. ALL CONTROL SHALL BE VERIFIED BEFORE PROCEEDING. SURVEYOR SHALL VERIFY INVERTS AT ALL GRAVITY STORM AND SEWER TIE IN POINTS BEFORE PROCEEDING. SURVEYOR SHALL VERIFY TIE POINT ELEVATIONS AT ALL ACCESS POINTS BEFORE PROCEEDING.

CLEAR AND GRUB REQUIREMENTS:

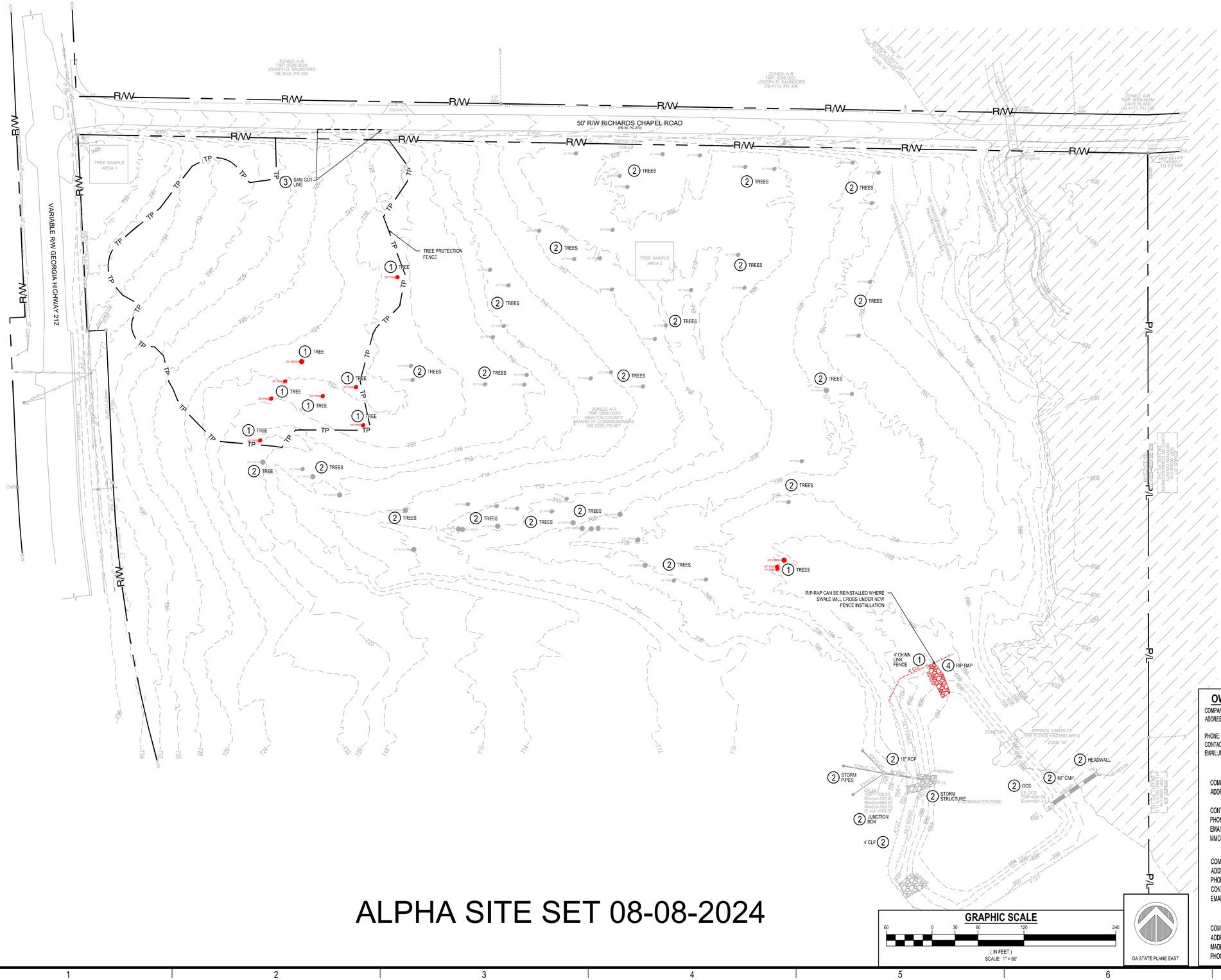
1. THE CONTRACTOR SHALL REVIEW PLANS AND IDENTIFY AND SAFELY MARK ALL PLANTS AND TREES TO BE SAVED. THE CONTRACTOR SHALL PROTECT ALL PLANTS AND TREES TO BE SAVED THROUGH OUT THE CONTRACT. THIS SHALL INCLUDE PROHIBITING ANY WORK WITHIN THE DRIP LINE OF THE TREE EXCEPT UNDER THE SUPERVISION OF A LICENSED LANDSCAPE ARCHITECT. THIS INCLUDES NOT PARKING ANY EQUIPMENT OR PILING ANY STORAGE AREAS WITHIN THE DRIP LINE OF THE TREE EXCEPT UNDER THE SUPERVISION OF A LICENSED LANDSCAPE ARCHITECT.
2. ALL AREAS TO BE CLEARED AND GRUBBED SHALL BE SURVEYED IN THE FIELD TO ESTABLISH THE APPROPRIATE LIMITS OF WORK.
3. THE CONTRACTOR SHALL TAKE WHAT EVER MEASURES NECESSARY TO LOCATE AND PROTECT EXISTING UTILITIES, STRUCTURES, AND OTHER FACILITIES TO REMAIN.
4. ALL TREES, SHRUBS, STUMPS, ROOTS AND OTHER DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
5. NO BURNING SHALL BE ALLOWED ON THE SITE.

COMPACTION FOR UTILITY INSTALLATION:

1. ANALYTICAL COMPACTION RESULTS SHALL BE SUBMITTED TO NEWTON COUNTY ENGINEERING DEPARTMENT (OR SIMILAR DEPARTMENT). THE FOLLOWING APPLIES TO STORMWATER, SANITARY SEWER, AND WATER:
   a. BACKFILL UNDER PERMANENT CONCRETE OR BITUMINOUS PAVEMENT, AND AS ELSEWHERE SPECIFIED OR INDICATED ON THE PLANS, SHALL BE APPROVED SAND-RUN SAND OR GRAVEL OR CRUSHED STONE FREE FROM LARGE STONES AND CONTAINING NOT MORE THAN TEN PERCENT (10%) BY WEIGHT OF CLAY OR CLAY. THIS BACKFILL SHALL BE COMPACTED TO ONE HUNDRED PERCENT (100%) AS DETERMINED BY THE MODIFIED PROCTOR TEST FROM PIPE BEDDING TO TWO (2) FEET BELOW TRENCH TOP. MECHANICAL VIBRATING EQUIPMENT SHALL BE USED TO ACHIEVE THE REQUIRED COMPACTION. PAVEMENT SHALL BE REPLACED IMMEDIATELY AFTER THE BACKFILLING IS COMPLETED.
   b. BACKFILL UNDER GRAVEL OR CRUSHED STONE SURFACED ROADWAYS SHALL BE THE APPROVED SUITABLE EXCAVATED MATERIAL PLACED IN SIX (6) INCH LAYERS THOROUGHLY COMPACTED FOR THE FULL DEPTH AND WIDTH OF THE TRENCH, CONFORMING TO THE COMPACTION DENSITY CONFORMING TO METHOD AND MATERIALS AS SPECIFIED IN "2" ABOVE.
   c. BACKFILL IN UNPAVED AREAS SHALL BE COMPACTED WITH MECHANICAL VIBRATING EQUIPMENT TO NINETY PERCENT (90%) AS DETERMINED BY THE MODIFIED PROCTOR TEST. BACKFILL MATERIAL FROM PIPE BEDDING TO GROUND SURFACE SHALL BE EXCAVATED FREE FROM LARGE STONES & OTHER DEBRIS.

GRADING / EARTHWORK REQUIREMENTS:

1. PRIOR TO STARTING ANY CUTS OR FILLS, THE CONTRACTOR SHALL STRIP AND STOCKPILE ALL TOPSOIL. STRIPPING OF TOPSOIL CAN ONLY COMMENCE AFTER THE CLEAR AND GRUB OPERATIONS ARE COMPLETE IN THAT AREA. TOPSOIL SHALL BE STOCKPILED IN AREAS DESIGNATED ON THE PLANS OR APPROVED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL REVIEW THE SOILS REPORTS, BORING LOGS AND, WHEN NECESSARY HIS OWN FIELD VERIFICATION SO AS TO BE FAMILIAR WITH THE DEPTH OF TOPSOIL. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT OVER AND UNDER REMOVAL.
2. UNLESS OTHERWISE NOTED, THE GRADES SHOWN ON THE PLANS ARE FINISHED GRADES. THEREFORE, PAVEMENT, FLOORS, SUBBASE AND OTHER IMPROVEMENTS MUST BE SUBTRACTED TO CALCULATE SUBGRADE ELEVATIONS. THE CONTRACTOR SHALL COORDINATE THE STAKING OF THE SITE GRADING WITH THE SURVEYOR AND ENGINEER OF RECORD BEFORE PROCEEDING WITH CONSTRUCTION STAKING.
3. THE CONTRACTOR SHALL MAINTAIN A SURVEY GRID OF NOT LESS THAN 100' X 100' OR OTHER MEANS ACCEPTABLE TO THE OWNER'S REPRESENTATIVE THAT SHALL INDICATE LOCATION AND AMOUNT OF CUT OR FILL REMAINING AT SUBGRADE THIS GRID SHALL BE 20' X 20' WITH LOCATION AND FINAL GRADE MARKED CLEARLY ON SURVEY SHALL BE COMPLETED DEMONSTRATING THAT THE SUBGRADE IS +/- 0.1 FEET OF REQUIRED SUBGRADE.
4. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL RETAIN AND PAY ALL COST FOR SOIL COMPACTION TESTING TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. COMPACTION TESTING SHALL BE DONE AT TIMES DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS REQUIRED BY LOCAL JURISDICTIONS. EACH CONTRACTING ENTITY SHALL BE RESPONSIBLE FOR ALL OF THE WORK RELATED TO THEIR TRADES WHEREVER IT MAY BE SHOWN WITHIN THE CONTRACT DOCUMENT PACKAGES.
5. COMPACTION REQUIREMENTS SHALL BE THOSE OUTLINED IN THE GEOTECHNICAL EVALUATION. IF THE GEOTECHNICAL EVALUATION IS NOT CLEAR OR DOES NOT GIVE REQUIREMENTS THE FOLLOWING SHALL BE USED: UNDER AND TO 2.0 FEET OUTSIDE THE BUILDING ENVELOPE THE SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY PER ASTM D 1557 (MODIFIED PROCTOR), ALL LANDSCAPE AREAS SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY PER ASTM D 1557 (MODIFIED PROCTOR). THE TESTING LAB SHALL TEST SOILS IN ACCORDANCE ASTM D 2922 (NUCLEAR METHOD) WITH PROCTORS FOR EACH SOIL TYPE.
6. UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT OR ON THE DRAWINGS, THE ON SITE MATERIAL SHALL BE USED TO MAKE FILLS. ALL MATERIAL TO BE USED FOR FILL SHALL BE FREE OF ORGANICS, FROZEN MATERIALS, CONTAMINATED MATERIALS, RUBBISH AND ANY ROCKS LARGER THAN 4 INCHES. FOR FILL PLACEMENT WITHIN 1 FOOT OF SUBGRADE, NO ROCK SHALL BE GREATER THAN 2 INCHES IN DIAMETER. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DRYING, SEGREGATING OR OTHER REQUIRED METHODS TO TREAT SOILS TO MEET COMPACTION AND OTHER REQUIREMENTS.
7. FILLS SHALL BE PLACED IN LIFTS NOT TO EXCEED 6 INCHES IN ALL AREAS.
8. IF IMPORTED MATERIAL IS REQUIRED, THE SOURCE AND A RANDOM COMPOSITE SAMPLE SHALL BE REVIEWED BY THE TESTING LABORATORY PRIOR TO BEING BROUGHT TO SITE. THE TESTING LABORATORY SHALL TEST FOR PERCENT PASSING OF THE NO. 200 SIEVE. THE MATERIAL SHALL BE ONE OF APPROVED FOR USE IN THE EXISTING ON SITE MATERIAL OR (IN NO CASE GREATER THAN 30%, THEY SHALL ALSO VERIFY CONSISTENCY WITH EXISTING ON SITE MATERIALS AND ALL OTHER REQUIREMENTS. WAIVERS TO THESE REQUIREMENTS CAN ONLY BE GIVEN JOINTLY BY OWNER AND THE GEOTECHNICAL ENGINEER THAT PREPARED THE GEOTECHNICAL REPORT.
9. THE TESTING LAB MAY RESTRICT SOME ON SITE MATERIALS FROM BEING USED AS FILL IN BUILDING OR PAVEMENT AREAS WHEN IT IS THEIR OPINION THAT THE MATERIAL WILL NOT MEET REQUIREMENTS STATED HERE OR IN THE GEOTECHNICAL REPORT. IF SUCH CONDITIONS EXIST AND OTHER MATERIAL IS NOT AVAILABLE ON SITE, THE OWNER'S REPRESENTATIVE MUST AUTHORIZE IN WRITING THE USE OF IMPORT MATERIAL UNLESS THERE WILL BE NO ADDITION COST TO THE CONTRACT.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EARTHWORK OPERATIONS FROM WEATHER AND GROUND WATER INCLUDING KEEPING POSITIVE DRAINAGE, DIVERTING DRAINAGE, DEWATERING, USING MULCHES, GEOTEXTILES OR SOIL STABILIZERS AS DIRECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO ENGLEMENT WEATHER
11. PRIOR PLACEMENT OF FILLS, IN AREAS WHERE THE FINAL DEPTH WILL BE LESS THAN 4 FEET, THE AREA SHALL BE PROOF-ROLLED WITH A 10 TON ROLLER OR A LOADED 10 WHEEL DUMP TRUCK. SOFT AREAS SHALL BE SCARIFIED, DRIED AND RE-COMPACTED PRIOR TO FILL BEING PLACED. RETEST BY PROOF ROLL AS NECESSARY.
12. ALL FINAL SUBGRADE UNDER PROPOSED PAVEMENT, BUILDING OR OTHER STRUCTURE SHALL BE PROOF ROLLED AS DESCRIBED ABOVE FOR THE IDENTIFICATION OF SOFT AREAS. AREAS FOUND TO BE UNACCEPTABLE TO THE GEOTECHNICAL ENGINEER OF RECORD OR THE GEOTECHNICAL ENGINEER'S TECHNICIAN SHALL BE SCARIFIED, DRIED AND RECOMPACTED. RETEST BY PROOF ROLL AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PROOF ROLLS WITH THE GEOTECHNICAL ENGINEER AND SHALL HAVE THE GEOTECHNICAL ENGINEER OR THE GEOTECHNICAL ENGINEER'S TECHNICIAN ON SITE AT THE TIME OF ALL PROOF ROLLING.
13. TRENCH EXCAVATION REQUIRING SHEETING, SHORING OR OTHER STABILIZING DEVICES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER AND MEET ALL O.S.H.A. REQUIREMENTS. ALL EXCAVATIONS SHALL MAINTAIN SAFE SLOPES IN ACCORDANCE WITH LOCAL, STATE, AND O.S.H.A. REQUIREMENTS. NO STOCKING OF MATERIAL CLOSE TO AN OPEN CUT OR STEEP SLOPE SHALL BE PERMITTED IN AN EFFORT TO PREVENT CAVE-INS.
14. TRENCH EXCAVATIONS SHALL BE MADE UNIFORM AND STRAIGHT TO WIDTHS DETERMINED BY NEWTON COUNTY. IF NO GUIDELINES FROM NEWTON COUNTY EXIST, THE FOLLOWING SHALL BE USED: FOR PIPES SIZED 24 INCHES OR LESS THE TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 16 INCHES WITH SHALL BE THE MINIMUM TRENCH WIDTH. FOR PIPES 30 INCHES AND LARGER THE TRENCH WIDTH SHALL ONLY BE ALLOWED WHEN COMPACTION EQUIPMENT LIMITATIONS REQUIRE AND ONLY AFTER APPROVAL OF THE ENGINEER OF RECORD. NO MORE TRENCH SHALL BE OPEN IN ONE DAY THAN CAN BE PROPERLY BACKFILLED IN THAT SAME DAY TO MINIMIZE WATER INFILTRATION. TRENCH SHALL BE SCARIFIED, DRIED AND RECOMPACTED AS NECESSARY DUE TO WATER INFILTRATION UNDER, ALONG AND OVER THE PIPE. CARE SHALL BE GIVEN WHILE BACKFILLING AROUND PIPES TO PREVENT DAMAGE TO THE PIPES INCLUDING: PLACING BACKFILL/BEDDING BY HAND, USING HAND OPERATED PLATE TAMPS OR JUMPING JACKS, AND OTHER LOAD RESTRICTIVE TECHNIQUES UNTIL FILLS ARE A MINIMUM OF 2 FEET OR MANUFACTURERS RECOMMENDED DEPTH, WHICH EVER IS GREATER, ABOVE THE TOP OF THE PIPE. COMPACTION REQUIREMENTS ARE NOT LESS THAN 95% MODIFIED PROCTOR AS DETERMINED BY THE ON SITE GEOTECHNICAL ENGINEER.
15. IF ROCK IS ENCOUNTERED THAT WAS NOT INDICATED ON THE PLANS OR GEOTECHNICAL REPORT, THE AREA FOR REMOVAL SHALL BE MEASURED AND REVIEWED WITH THE OWNERS REPRESENTATIVE PRIOR TO ROCK REMOVAL. ROCK WILL BE DEFINED AS THE NATURAL EARTH MATERIALS THAT CAN NOT BE REMOVED WITH A D9 DOZER WITH A SINGLE TOOTH RIPPER.
16. WHERE ROCK IS ADJACENT TO A STRUCTURE OR UTILITY, THE ROCK SHALL BE REMOVED TO A MINIMUM OF 6 INCHES BELOW AND 1 TIMES THE DIAMETER, BUT NOT LESS THAN 1 FOOT OR GREATER THAN 3 FEET BELOW SIDE.
17. NO EXPLOSIVES SHALL BE ALLOWED UNTIL ALL PERMITS ARE GRANTED AND THE OWNER HAS SIGNED OFF. PRE AND POST BLAST REPORTS SHALL BE KEPT AND RECORDED. ALL STRUCTURES WITHIN THE AREA OF THE BLAST SHALL RECEIVE A PRE-BLAST SURVEY. ALL BLASTING SHALL BE PERFORMED BY A LICENSED BLASTER.
18. UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL EXCESS TOPSOIL, CUT MATERIAL OR WASTE MATERIAL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
19. NO FILL SHALL BE PLACED ON EXISTING GROUND WITHIN THE LIMITS OF DISTURBANCE UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES OR TO A DEPTH RECOMMENDED BY THE GEOTECHNICAL REPORT AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACING OF FILL (SELECTIVE REMOVAL OF LUMBER, LOOSE BRUSH, OR ANY OTHER DAMAGEABLE MATERIALS OR RUBBISH SHALL BE REMOVED FROM AREAS TO BE FILLED AND COMPACTED FILL. UNSUITABLE MATERIALS, SUCH AS TOPSOIL, WEATHERED BEDROCK, ETC. SHALL BE REMOVED AS REQUIRED BY GEOTECHNICAL ENGINEER (AND ENGINEERING GEOLOGIST, WHERE EMPLOYED) FROM AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE FACILITIES. FILL SHALL CONSIST OF SOIL MATERIALS FREE OF ROCK OR OTHER UNSUITABLE MATERIALS, COMPACTED TO 95% STANDARD PROCTOR (UNLESS OTHERWISE NOTED). PLACE AND COMPACT IN 8 INCH LIFTS. ALL SOILS WITHIN 12 INCHES OF PAVEMENT SUB


50' R/W RICHARDS CHAPEL ROAD
(PB 34, PG 270)
VARIABLE R/W GEORGIA HIGHWAY 212
TREE SAMPLE AREA 1
TREE SAMPLE AREA 2
SAW CUT LINE
TREE PROTECTION FENCE
RIP-RAP CAN BE REINSTALLED WHERE SWALE WILL CROSS UNDER NEW FENCE INSTALLATION
4' CHAIN LINK FENCE
RIP RAP
STORM PIPES
STORM STRUCTURE
JUNCTION BOX
4' CLF
16" RCP
60" CMP
HEADWALL
OCS
STORMWATER POND
APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE "AE"
APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE "A"
100 HEIGHTENED WATER PROTECTION BUFFER
100 HEIGHTENED WATER PROTECTION BUFFER
50' MOUNTAIN PROTECTION
150' HEIGHTENED WATER PROTECTION BUFFER
ZONED: A-R TMP: 0008 002K JOSEPH D. SAUNDERS DB 3540, PG 229
ZONED: A-R TMP: 0008 002L JOSEPH D. SAUNDERS DB 4119, PG 398
ZONED: A-R TMP: 0008 002M DAVE BLAKE DB 4117, PG 196
ZONED: A-R TMP: 0008 002H NEWTON COUNTY BOARD OF COMMISSIONERS DB 2228, PG 487

SITE ENLARGEMENT- SEE SHEET C-2.2

50' R/W RICHARDS CHAPEL ROAD
(PB 34, PG 270)

VARIABLE R/W GEORGIA HIGHWAY 212

50 FT BUILDING SETBACK

ZONED: A-R
TMP: 0008 002K
JOSEPH D. SAUNDERS
DB 3540, PG 229

ZONED: A-R
TMP: 0008 002L
JOSEPH D. SAUNDERS
DB 4119, PG 398

ZONED: A-R
TMP: 0008 002M
DAVE BLAKE
DB 4117, PG 195

ZONED: A-R
TMP: 0008 002H
NEWTON COUNTY
BOARD OF COMMISSIONERS
DB 2228, PG 487

EXISTING POND PER AERIAL IMAGERY

EX. PAVED DRIVE & PARKING

LIMITS OF MODIFIED POND

4' TALL CHAIN LINK FENCE MATCHING EXISTING SHALL BE EXTENDED AROUND THE PROPOSED LIMITS OF THE POND THAT CONNECTS TO THE EXISTING FENCE

CONNECT PROPOSED FENCE TO EXISTING FENCE

STORMWATER POND

APPROX. LIMITS OF THE 100 YEAR FLOOD HAZARD AREA ZONE "A"

100' UNDISTURBED NATIVE VEGETATIVE PROTECTION BUFFER

100' IMPERVIOUS SURFACE BUFFER

ALPHA SITE SET 08-08-2024

PAVING LEGEND:

HD = HEAVY DUTY
SD = STANDARD DUTY

- ASPHALT PER NEWTON COUNTY STANDARDS AND SPECIFICATIONS
- HD CONCRETE PAVING
- SD CONCRETE PAVING
- SD ASPHALT PAVING

REFER TO DETAILS FOR SECTION REQUIREMENTS.

NOTES:

1. ALL STRIPING SHOWN INCLUDING ARROWS, STOPBARS, AND PARKING SPACES REFLECTS STRIPING TO BE DONE BY CONTRACTOR.
2. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PRIOR TO ACCEPTANCE BY THE LIA AND/OR ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
3. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INITIAL INSTALLATION OF STOP SIGNS.

OWNER/DEVELOPER

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ADDRESS: 1124 CLARK STREET
COVINGTON, GA 30014
PHONE: 404-892-5050
CONTACT: JEFF PRINE
EMAIL:JPRINE@ASCENSION-PM.COM

CONTRACTOR

COMPANY: SULBELT BUILDERS
ADDRESS: 10641 HWY 36
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CONTACT: MIKE MCCROREY
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PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER

COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896
MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED
DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

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GRAPHIC SCALE

60 0 30 60 120 240
(IN FEET)
SCALE: 1" = 60'

GA STATE PLANE EAST

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LAND SURVEYING

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Professional Seal

GEORGIA REGISTERED NO. PE024659 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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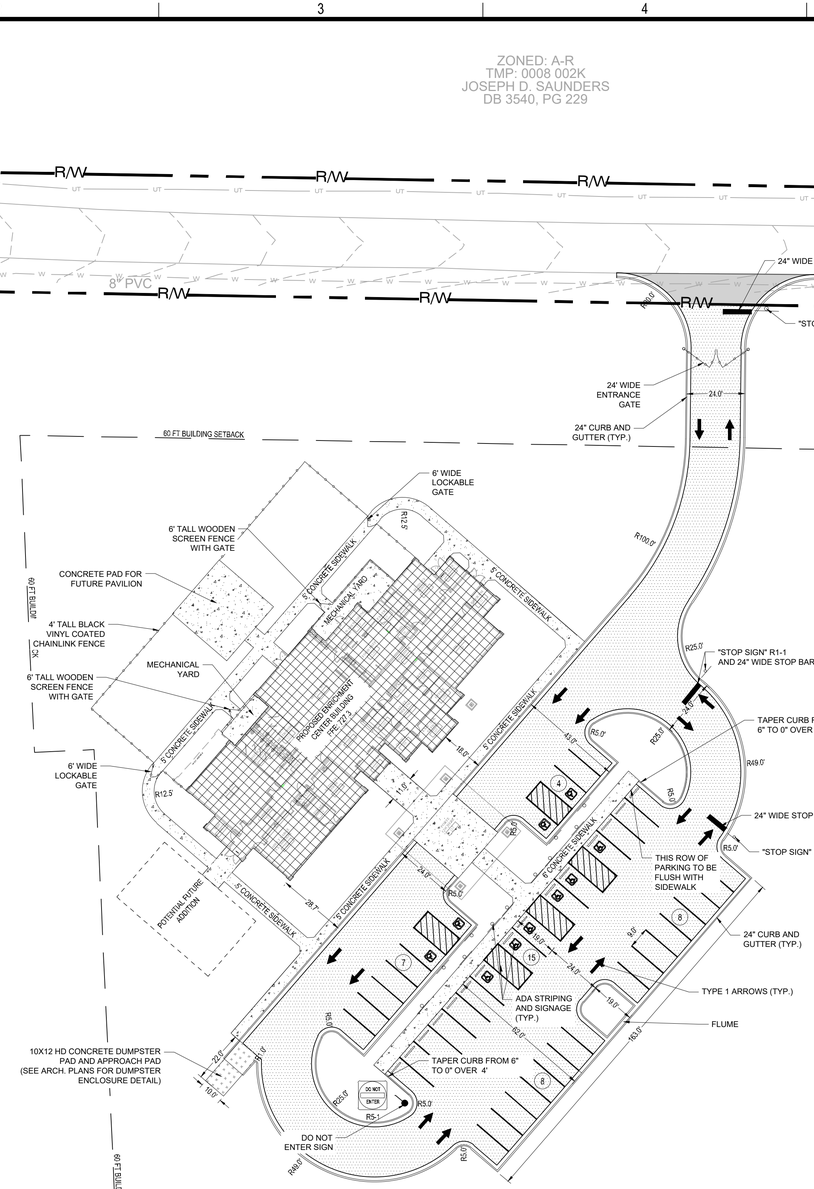
Sheet Title

LAYOUT & STAKING PLAN OVERVIEW

Sheet Number

C-2.1



ALPHA SITE SET 08-08-2024

PAVING LEGEND:

HD = HEAVY DUTY
SD = STANDARD DUTY

- ASPHALT PER NEWTON COUNTY STANDARDS AND SPECIFICATIONS
- HD CONCRETE PAVING
- SD CONCRETE PAVING
- SD ASPHALT PAVING

REFER TO DETAILS FOR SECTION REQUIREMENTS.

NOTES:

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3. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INITIAL INSTALLATION OF STOP SIGNS.

OWNER/DEVELOPER

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EMAIL:JPRINE@ASCENSION-PM.COM

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SITE DESIGNER

COMPANY: GEORGIA CIVIL, INC.
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PHONE: 706.342.1104

GRAPHIC SCALE

30 0 15 30 60 120
(IN FEET)
SCALE: 1" = 30'

GA STATE PLANE EAST

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Professional Seal

GEORGIA REGISTERED NO. PE024859 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

LAYOUT & STAKING PLAN

Sheet Number

C-2.2

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

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SITE ENLARGEMENT- SEE SHEET C-3.1

POND ENLARGEMENT- SEE SHEET C-3.2

50' R/W RICHARDS CHAPEL ROAD
(PB 34, PG 270)

VARIABLE R/W GEORGIA HIGHWAY 212

ZONED: A-R
TMP: 0008 002K
JOSEPH D. SAUNDERS
DB 3540, PG 229

ZONED: A-R
TMP: 0008 002L
JOSEPH D. SAUNDERS
DB 4119, PG 356

ZONED: A-R
TMP: 0008 002M
DAVE BLAKE
DB 4117, PG 124

ZONED: A-R
TMP: 0008 002H
NEWTON COUNTY
C/O BOARD OF COMMISSIONERS
DB 2228, PG 487

60 FT BUILDING SETBACK

EDGE OF EXISTING PAVEMENT PER AERIAL IMAGERY

EX. PAVED DRIVE & PARKING

APPROX. LIMITS OF THE 100YR FLOODPLAIN ZONE 'A'

APPROX. LIMITS OF THE 100YR HAZARD AREA ZONE 'A'

STORMWATER POND

ALPHA SITE SET 08-08-2024

GRADING NOTE: MAXIMUM SLOPE IS 3:1 UNLESS NOTED OTHERWISE

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
SCALE: 1" = 60'

GA STATE PLANE EAST

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
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EMAIL:JPRINE@ASCENSION-PM.COM

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Professional Seal

GEORGIA REGISTERED NO. PE024855 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

GRADING PLAN OVERVIEW

Sheet Number

C-3.0

ZONED: A-R
TMP: 0008 002K
JOSEPH D. SAUNDERS
DB 3540, PG 229

50' R/W RICHARDS CHAPEL ROAD
(PB 34, PG 270)

VARIABLE R/W GEORGIA HIGHWAY 212

ZONED: A-R
TMP: 0008 002H
NEWTON COUNTY
BOARD OF COMMISSIONERS
DB 2228, PG 487

MATCH EXISTING EDGE OF PAVEMENT

5' SHOULDER

SWALE

START SWALE

PROPOSED EMPLOYMENT CENTER BUILDING SITE: 12.8

SIDEWALK SHALL BE FLUSH WITH EDGE OF PAVEMENT

60 FT BUILDING SETBACK

EDGE OF EXISTING PAVEMENT PER AERIAL IMAGERY

ALPHA SITE SET 08-08-2024

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
SCALE: 1" = 30'

GA STATE PLANE EAST

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
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COVINGTON, GA 30014
PHONE: 404-992-5050
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PHONE: 706.342.1104

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#53274 - EXP. 05.01.2026

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Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

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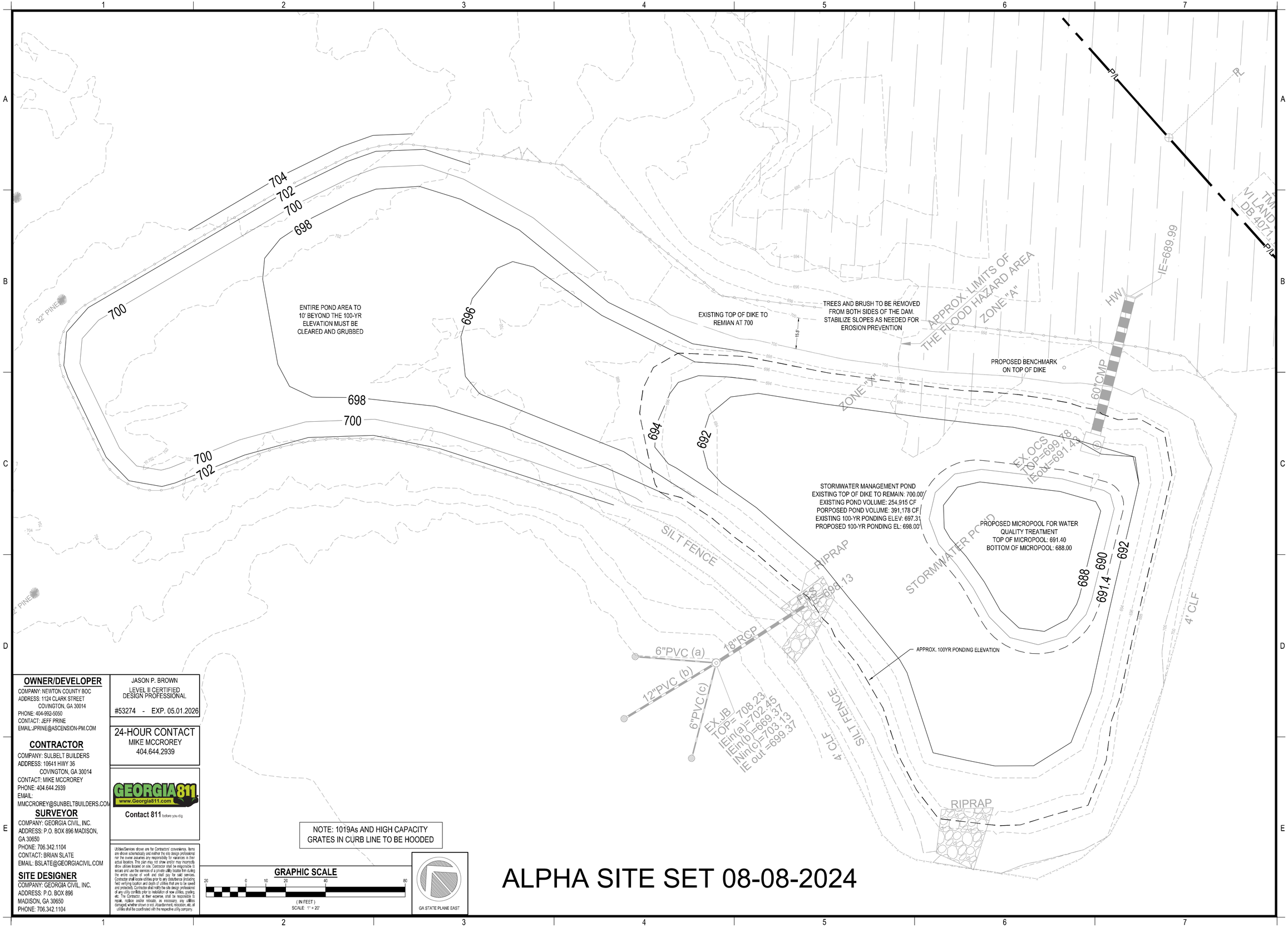
Sheet Title
GRADING PLAN SITE VIEW

Sheet Number
C-3.1



OWNER/DEVELOPER

COMPANY: NEWTON COUNTY BOC
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PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL:JPRINE@ASCENSION-PM.COM

CONTRACTOR

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PHONE: 404.644.2939
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MMCCROREY@SUNBELTBUILDERS.COM

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EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER

COMPANY: GEORGIA CIVIL, INC.
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LEVEL II CERTIFIED
DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

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NOTE: 1019As AND HIGH CAPACITY GRATES IN CURB LINE TO BE HOODED

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
SCALE: 1" = 20'

GA STATE PLANE EAST

ALPHA SITE SET 08-08-2024

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Professional Seal

GEORGIA REGISTERED NO. PE024869 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
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REVISIONS

DATE:	DESCRIPTION:
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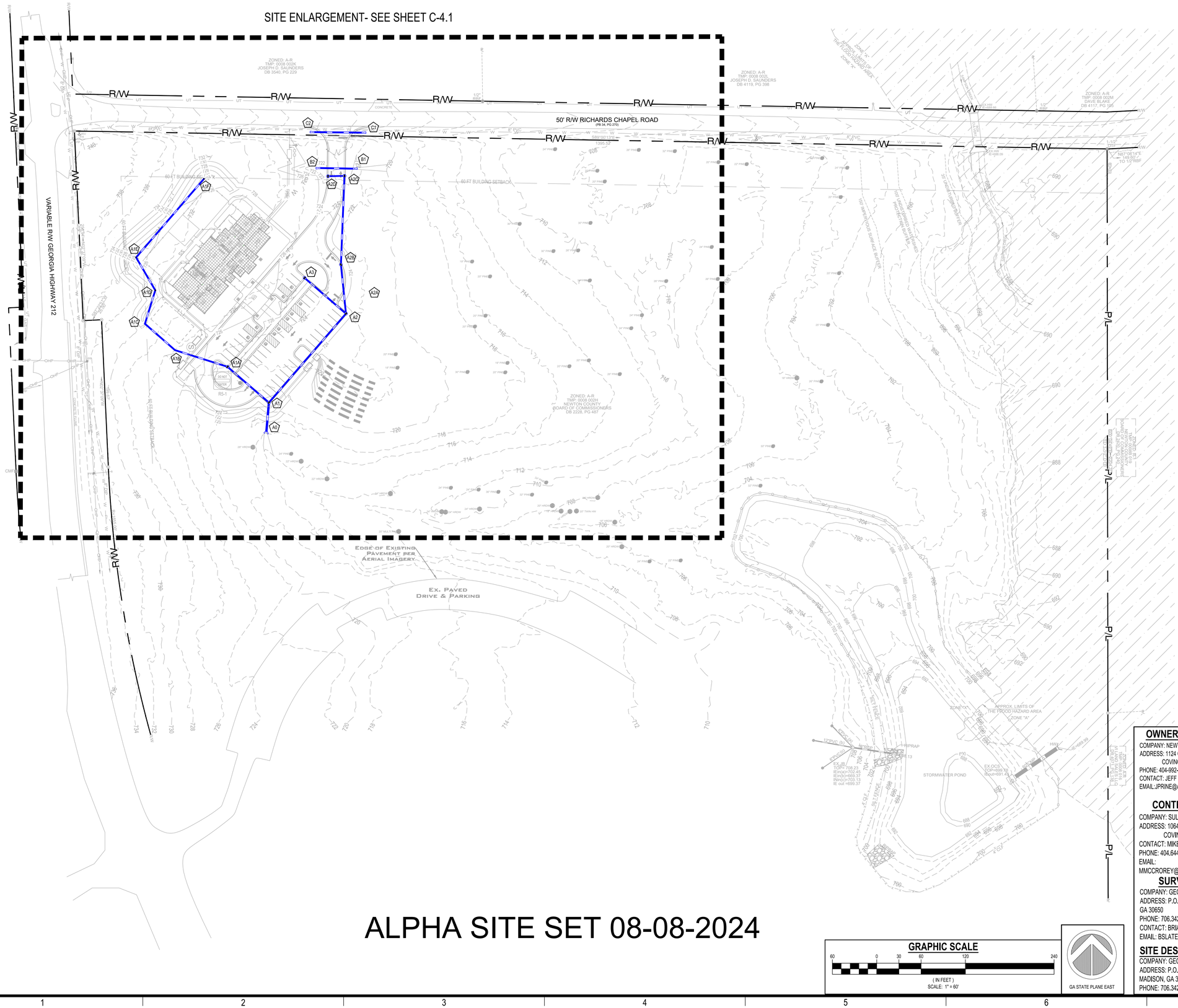
Sheet Title

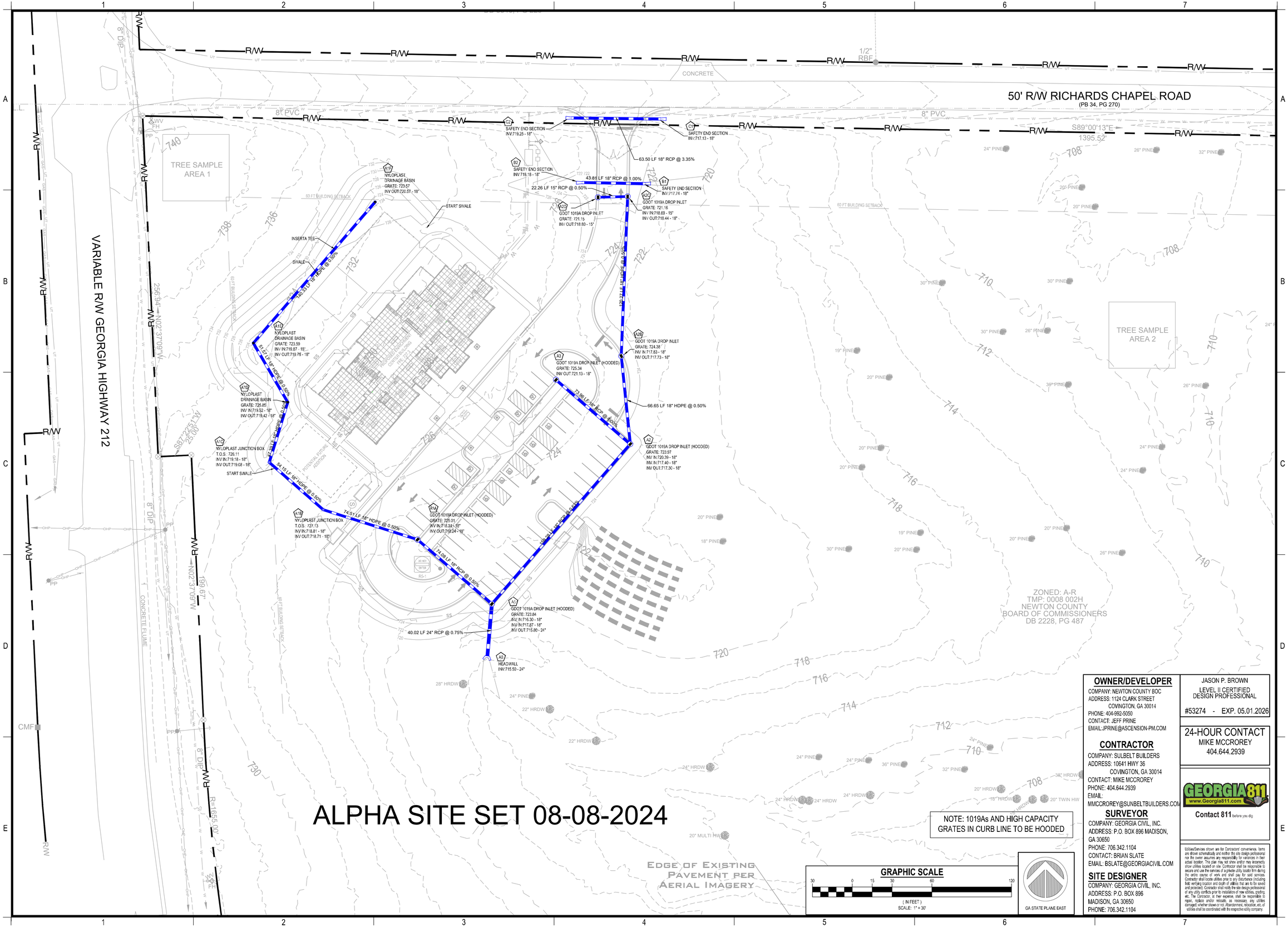
GRADING PLAN POND VIEW

Sheet Number

C-3.2

SITE ENLARGEMENT- SEE SHEET C-4.1





ALPHA SITE SET 08-08-2024

NOTE: 1019As AND HIGH CAPACITY GRATES IN CURB LINE TO BE HOODED

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
SCALE: 1" = 30'

GA STATE PLANE EAST

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
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Professional Seal

GEORGIA REGISTERED NO. PE024654 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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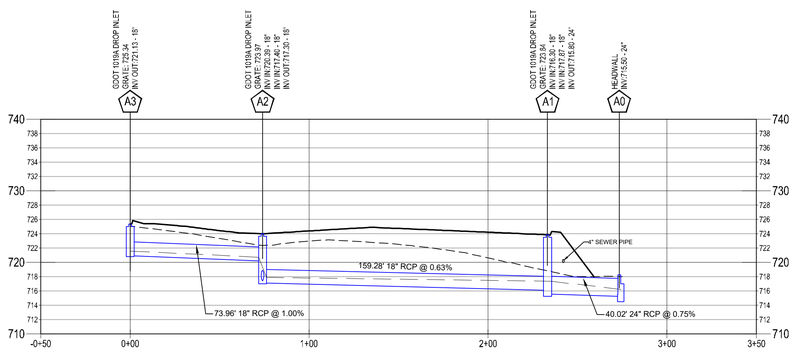
Sheet Title

STORMWATER MANAGEMENT PLAN
SITE VIEW

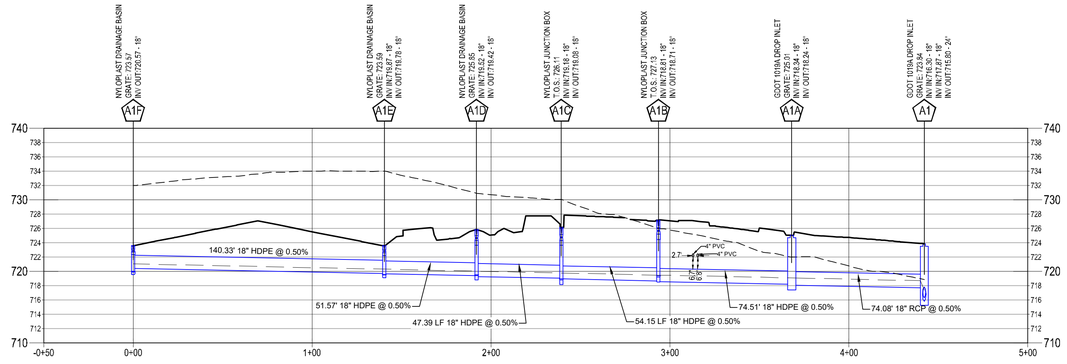
Sheet Number

C-4.1

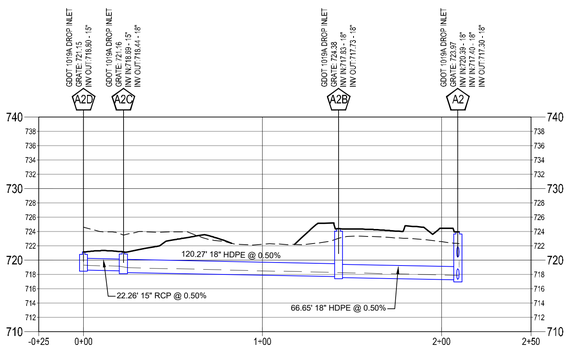
STORM A PROFILE
STA. -0+50 TO STA. 3+50



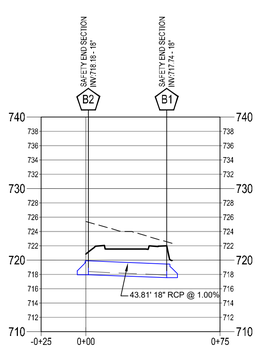
STORM A1 PROFILE
STA. -0+50 TO STA. 5+00



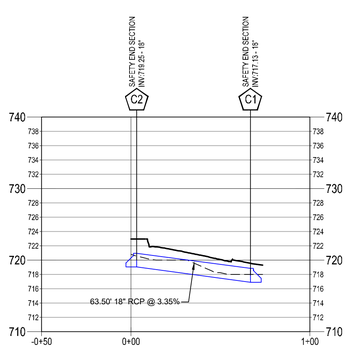
STORM A2 PROFILE
STA. -0+25 TO STA. 2+50



STORM B PROFILE
STA. -0+25 TO STA. 0+75



STORM C PROFILE
STA. -0+50 TO STA. 1+00



ALPHA SITE SET 08-08-2024

NOTE: 1019As AND HIGH CAPACITY GRATES IN CURB LINE TO BE HOODED

LEGEND

EG

FG

HGL

STORMWATER MANAGEMENT PROFILES
SCALE: HORIZONTAL: 1"=40'
VERTICAL: 1"=10'

25 YR STORM PIPE CHART

Line	ToLine	LineLength (ft)	Incr. Area (ac)	Total Area (ac)	Runoff Coeff. (C)	Incr C x A	Total C x A	Inlet Time (min)	Time Conc (min)	Rnfall Int (in/hr)	Total Runoff (cfs)	Adnl Flow (cfs)	Total Flow (cfs)	Capac Full (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)	Grnd/Rim Dn (ft)	Grnd/Rim Up (ft)	Line ID
1	Outfall	40.023	0.24	2.05	0.95	0.23	1.46	5	10.3	6.9	10.03	0	10.03	32.4	7.28	24	1.75	715.5	716.2	716.26	717.33	718.25	723.79	A1-A0
2	1	159.284	0.14	0.61	0.95	0.13	0.58	5	8.4	7.3	4.23	0	4.23	8.06	3.88	18	0.5	716.3	717.1	717.33	717.89	723.79	723.98	A2-A1
3	2	73.963	0.14	0.14	0.95	0.13	0.13	5	5	8.2	1.1	0	1.1	11.38	3.53	18	1	720.39	721.13	720.7	721.52	723.98	724.63	A3-A2
4	1	74.077	0.3	1.2	0.74	0.22	0.65	5	9.9	7	4.53	0	4.53	8.04	4.65	18	0.5	717.87	718.24	718.68	719.06	723.79	724.71	A1A-A1
5	4	74.508	0	0.9	0	0	0.43	5	9.2	7.1	3.05	0	3.05	8.02	3.85	18	0.5	718.34	718.71	719.06	719.37	724.71	726.31	A1B-A1A
6	5	54.148	0	0.9	0	0	0.43	5	8.7	7.2	3.1	0	3.1	8.03	4.16	18	0.5	718.81	719.08	719.46	719.75	726.31	726.1	A1C-A1B
7	6	47.39	0.13	0.9	0.63	0.08	0.43	5	8.3	7.3	3.14	0	3.14	8.1	4.18	18	0.51	719.18	719.42	719.83	720.09	726.1	725.71	A1D-A1C
8	7	51.568	0.37	0.77	0.45	0.17	0.35	5	7.8	7.5	2.59	0	2.59	8.08	3.95	18	0.5	719.52	719.78	720.1	720.39	725.71	723.6	A1E-A1D
9	8	140.333	0.4	0.4	0.45	0.18	0.18	5	5	8.2	1.48	0	1.48	8.03	3	18	0.5	719.87	720.57	720.39	721.03	723.6	723.57	A1F-A1E
10	2	38.418	0.06	0.33	0.95	0.06	0.31	5	8	7.4	2.32	0	2.32	8	3.33	18	0.49	717.2	717.39	717.89	717.97	723.98	723.27	A2A-A2
11	10	51.984	0.04	0.27	0.95	0.04	0.26	5	7.2	7.6	1.95	0	1.95	8.05	3.64	18	0.5	717.49	717.75	717.99	718.28	723.27	724.53	A2B-A2A
12	11	117.103	0.05	0.23	0.95	0.05	0.22	5	5.3	8.1	1.78	0	1.78	8.08	3.55	18	0.5	717.85	718.44	718.33	718.94	724.53	721.16	A2C-A2B
13	12	22.262	0.18	0.18	0.95	0.17	0.17	5	5	8.2	1.41	0	1.41	4.92	3.4	15	0.49	718.69	718.8	719.15	719.27	721.16	721.15	A2D-A2C
14	Outfall	43.806	0.13	0.13	0.35	0.05	0.05	5	5	8.2	0.38	0	0.38	11.4	2.6	18	1	717.74	718.18	717.93	718.41	719.45	719.89	B0-B1
15	Outfall	63.499	0.36	0.36	0.6	0.22	0.22	5	5	8.2	1.78	0	1.78	20.79	5.31	18	3.34	717.13	719.25	717.43	719.75	718.83	720.96	C2-C1

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
ADDRESS: 1124 CLARK STREET
COVINGTON, GA 30014
PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL: JPRINE@ASCENSION-PM.COM

CONTRACTOR
COMPANY: SULBELT BUILDERS
ADDRESS: 10641 HWY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY
PHONE: 404.644.2939
EMAIL: MMCCROREY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
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EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
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MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
MIKE MCCROREY
404.644.2939

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Professional Seal

GEORGIA REGISTERED NO. PE024888 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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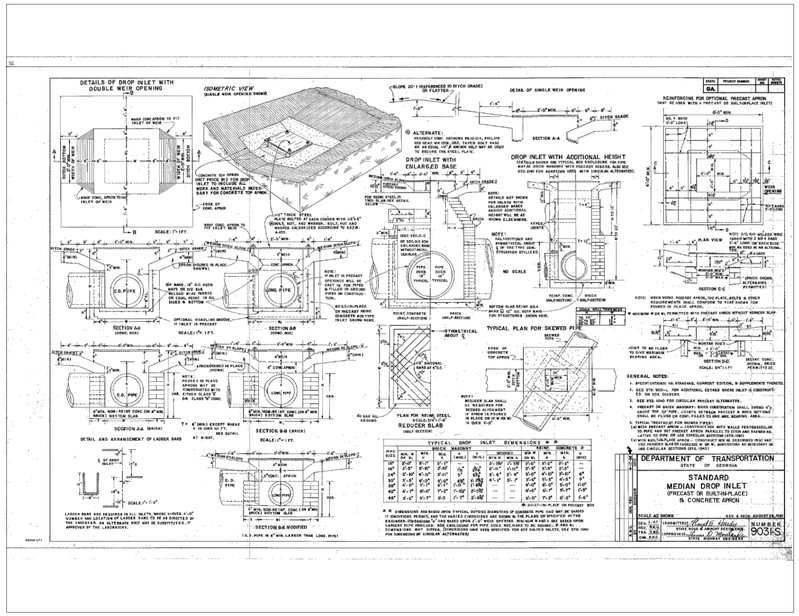
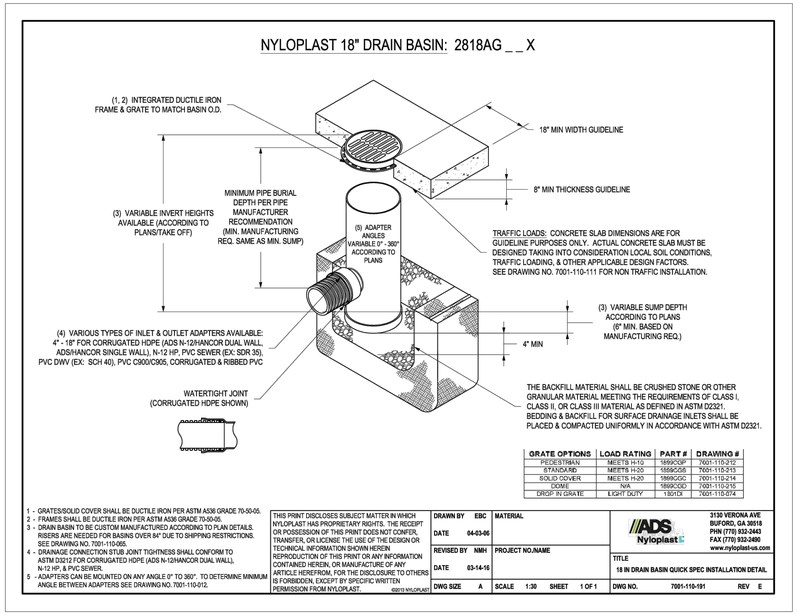
Sheet Title

STORMWATER MANAGEMENT PROFILES

Sheet Number

C-4.2





GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CGP	7001-110-212
STANDARD	MEETS H-20	1899CGS	7001-110-213
SOLID COVER	MEETS H-20	1899CGC	7001-110-214
DOME	N/A	1899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	1801DI	7001-110-074

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-095.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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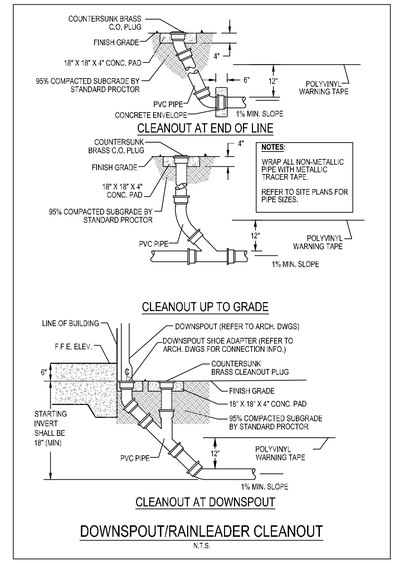
DRAWN BY	EBC
DATE	04-03-06
REVISED BY	NMH
DATE	03-14-16
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:30
SHEET	1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2643
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 18 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-191 REV E



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Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
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Sheet Title

STORMWATER MANAGEMENT DETAILS

Sheet Number

C-4.3

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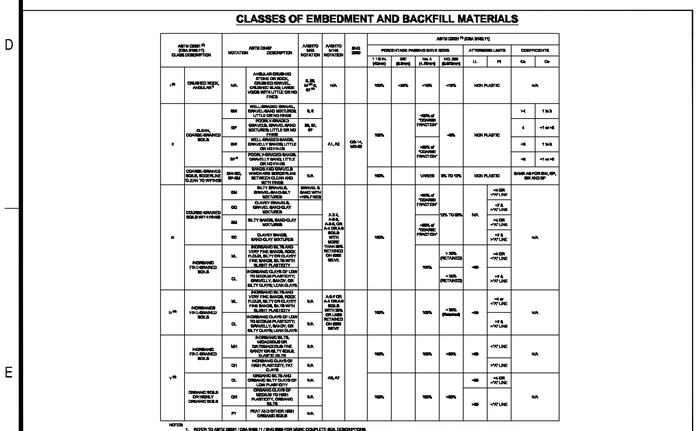
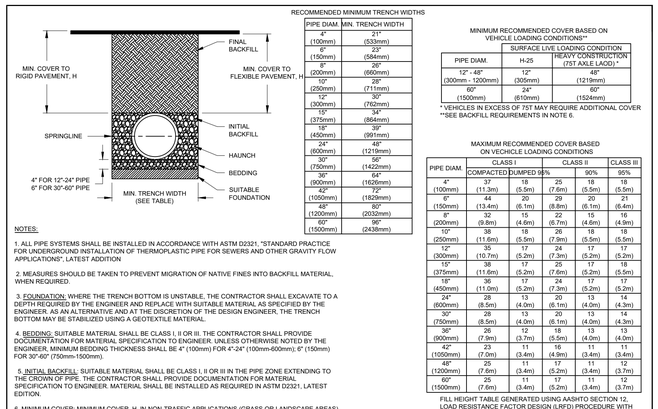
ALPHA SITE SET 08-08-2024





PIPE DIAM.	MIN. TRENCH WIDTH
6" (100mm)	21" (533mm)
8" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS*

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48" (300mm - 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

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

MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	CLASS I		CLASS II		CLASS III
	COMPACTED 95%	DUMPED 85%	90%	95%	95%
4" (100mm)	37' (11.3m)	18' (5.5m)	25' (7.6m)	18' (5.5m)	18' (5.5m)
6" (150mm)	44' (13.4m)	20' (6.1m)	29' (8.8m)	20' (6.1m)	21' (6.4m)
8" (200mm)	32' (9.8m)	15' (4.6m)	22' (6.7m)	15' (4.6m)	16' (4.9m)
10" (250mm)	38' (11.6m)	18' (5.5m)	26' (7.9m)	18' (5.5m)	18' (5.5m)
12" (300mm)	35' (10.7m)	17' (5.2m)	24' (7.3m)	17' (5.2m)	17' (5.2m)
15" (375mm)	38' (11.6m)	17' (5.2m)	25' (7.6m)	17' (5.2m)	18' (5.5m)
18" (450mm)	36' (11.0m)	17' (5.2m)	24' (7.3m)	17' (5.2m)	17' (5.2m)
24" (600mm)	28' (8.5m)	13' (4.0m)	20' (6.1m)	13' (4.0m)	14' (4.3m)
30" (750mm)	28' (8.5m)	13' (4.0m)	20' (6.1m)	13' (4.0m)	14' (4.3m)
36" (900mm)	26' (7.9m)	12' (3.7m)	18' (5.5m)	13' (4.0m)	13' (4.0m)
42" (1050mm)	23' (7.0m)	11' (3.4m)	16' (4.9m)	11' (3.4m)	11' (3.4m)
48" (1200mm)	25' (7.6m)	11' (3.4m)	17' (5.2m)	11' (3.4m)	12' (3.7m)
60" (1500mm)	25' (7.6m)	11' (3.4m)	17' (5.2m)	11' (3.4m)	12' (3.7m)

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

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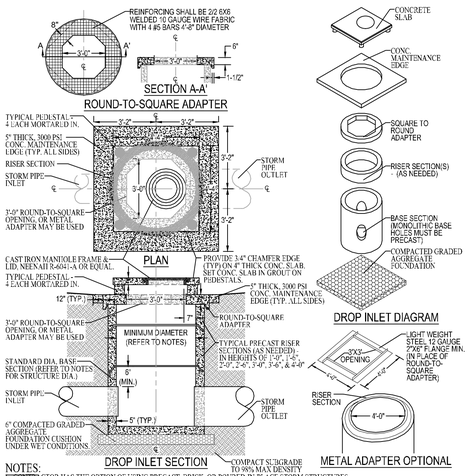
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED.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

6	INITIAL BACKFILL	JAK	04/02/20	NOTE: ALL DIMENSIONS ARE 1/2 FOOT
REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)
DRAWING NUMBER: STD-101
DIA. DET/RET SYSTEM
4640 TRUEMAN BLVD HILLIARD, OHIO 43026
ADVANCED DRAINAGE SYSTEMS, INC.
DWG NO. 7JR
REV 6
DATE 12/29/16
SCALE NTS
SHEET 1 OF 1



NOTES:
1. CONTRACTOR HAS THE OPTION OF USING PRECAST, BRICK, OR POURED-IN-PLACE STORM STRUCTURES
2. ALL PRECAST CONCRETE SHALL BE 4000 PSI.
3. SUBGRADE: SHALL BE COMPACTED TO 98% MAX. DRY DENSITY PER STANDARD PROCTOR.
4. REINFORCEMENT STEEL SHALL BE PLACED TO ALLOW A MIN. OF 1 1/2" COVER, EXCEPT WHERE NOTED.
5. REINFORCEMENT STEEL SHALL BE OF INTERMEDIATE GRADE & SHALL CONSIST OF NO. 4 @ 8" O.C. E.W.
6. WHEN 60" & 72" BASE SECTIONS ARE REQUIRED, AN ADAPTER SECTION SHALL BE USED IN CONJUNCTION WITH THE STANDARD CONE.
7. ALL JOINTS BETWEEN PRECAST BASE, RISERS, AND ROUND-TO-SQUARE ADAPTERS SHALL BE KEYED. ALL JOINTS SHALL BE GROUTED INSIDE AND OUTSIDE.
8. STORM MANHOLE STRUCTURES THAT JOIN REINFORCED CONCRETE PIPE SHALL HAVE A BRICK OR CONCRETE COLLAR WALL.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DIAMETER OF TEE STRUCTURES WITH THE SIZE AND/OR NUMBER OF PIPE PENETRATIONS IN THE STRUCTURE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR STRUCTURES LOCATED ON PIPE LARGER THAN 72" IN DIAMETER.
10. CONTRACTOR SHALL PROVIDE DRAINAGE STRUCTURE STEPS (CAST IRON) ON STRUCTURES DEEPER THAN 4'-0".
11. CAST IRON DRAINAGE STRUCTURE STEPS SHALL BE NEENAH R-1980-I OR EQUAL.
12. STEPS TO BE PLACED ON VACANT WALL WHEN POSSIBLE.
13. MANHOLE RING SHALL BE OFFSET TOWARD WALL WITH STEPS AND CENTERED ON CENTERLINE OF STEPS
14. STAGGER STEPS 2" EACH WAY FROM CENTERLINE OF MANHOLE RING.
15. TOP STEP SHALL BE 24" BELOW TOP OF 4" CONCRETE SLAB.
16. STEP SPACING SHALL BE 16", BOTTOM STEP SHALL BE NO HIGHER THAN 16" FROM INVERT.

PRECAST DROP INLET (D.I.) - PEDESTAL TOP
N.T.S.

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Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

PIPE CURVED ALIGNMENT USING SECTIONS WITH DROPPED JOINTS

NOTE TO DESIGNER:
A COST COMPARISON ESTIMATE SHALL BE MADE BEFORE PIPE CURVED ALIGNMENT IS SPECIFIED.

NOTES FOR PIPE CURVED ALIGNMENT:
1. PLANS ARE TO SPECIFY ONLY THE PIPE DIAMETER "D," THE ANGLE "Δ," AND THE TANGENT ALIGNMENT.
2. PIPE WALL THICKNESS "T," PIPE SECTION LENGTHS "L," AND DROP IN PIPE JOINT "DJM" VARIES ACCORDING TO PIPE PRODUCER AND IS BASED ON FEASIBILITY.
3. THE RADIUS "R" AND THE NUMBER OF PIPE SECTIONS "N" SHALL BE DETERMINED BY USING AN ARBITRARY MINOR MODIFICATIONS IN THE RADIUS "R" ARE NORMALLY MADE SO THAT "N" WILL BE A WHOLE NUMBER.
4. PIPE SECTIONS SHALL BE ORIENTED SUCH THAT THE PLANE OF THE DROPPED JOINTS IS RADIAL TO THE CURVE (THEORETICAL CIRCULAR CURVE). THE TOP OF SECTIONS ARE TO BE MARKED SO THAT THE ORIENTATION APPLE IS PROPERLY OBSERVED.
5. DETAILS ARE SHOWN FOR CONCRETE PIPE. CURVED ALIGNMENT FOR C.M. PIPE SHALL BE RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
6. PAYMENT PER LIN. FT. PIPE INCLUDES PIPE SECTIONS WITH DROPPED JOINTS.

WHERE:
N = NUMBER OF PIPE SECTIONS WITH DROPPED JOINTS
D = INSIDE DIAMETER OF PIPE
Δ = DEFLECTION ANGLE, ASSUMED
R = RADIUS OF CURVATURE (FT.)
T = PIPE WALL THICKNESS (FT.)
L = NOMINAL LENGTH OF PIPE SECTION (FT.) 4', 6', OR 8' TYPICAL.

SECTION WITH DROPPED JOINT

DETAILS OF CONCRETE JUNCTION BOX
(PRECAST OR BUILT IN PLACE)

REINFORCED CONCRETE TOP

SECTIONAL VIEW

OPTIONAL HANDLING GROOVE IF BOX IS PRECAST

PLAN VIEW (SHOWN WITHOUT REQ'D. TOP)

T = 6" FOR CONCRETE

T = 5½" FOR W OR W1 TO 7'-0"
T = 8" FOR W OR W1 OVER 7'-0"

DIMENSIONS FOR BRICK OR REINF. CONC. BOX			
PIPE SIZE	W OR W1	MIN H	MAX H
15"	2'-0"	1'-5"	2'-9"
18"	2'-3"	1'-5"	2'-11"
24"	2'-9"	1'-6"	3'-5"
30"	3'-3"	1'-6"	3'-11"
36"	3'-9"	1'-7"	4'-5"
42"	4'-3"	1'-8"	4'-11"
48"	4'-9"	1'-9"	5'-5"
54"	5'-3"	1'-10"	5'-11"
60"	5'-9"	1'-11"	6'-5"

SEE GEN. NOTE NO.3

DETAILS OF BRICK JUNCTION BOX
FOR BRICK T= 8" (MAX. 10 FT. DEPTH)

SECTIONAL VIEW

PLAN VIEW (SHOWN WITHOUT REQ'D. TOP)

PREVENT BOND WITH EITHER 30 LB. ASPHALT SATURATED FELT OR PROVIDED FOAM JOINT FILLER

PIPE ELBOW SECTION (PRE-FABRICATED)

NOTES FOR PIPE ELBOW:
1. PAYMENT FOR LIN. FT. OF PIPE INCLUDES ELBOWS.
2. ELBOW ANGLE Δ SHALL MEET ACCORDING TO ASCE, BUT SHALL NOT BE GREATER THAN 45°. THE CONTRACTOR SHALL INFORM PRODUCER AS TO ANGLE REQUIRED.
3. (a) CONCRETE PIPE: SHALL BE CUT BEFORE BEING LOWERED INTO TRENCH AND SHALL BE CUT SO AS TO EXPOSE ENOUGH STEEL SHALL BE REQUIRED. FILLER ROD OF LEAST EQUAL TO ROD(S) IN PIPE SHALL BE WELDED TO ROD(S) TO BE WELDED AS SHOWN. ALL VOIDS IN SPLICE SHALL BE PACKED WITH GROUT MORTAR RICH ENOUGH TO GIVE STRENGTH AT LEAST EQUAL TO REMOVED CONCRETE. WITH INSIDE SMOOTHED OUT.
4. C.M. PIPE ELBOW NOT SHOWN, BUT MAY BE SPECIFIED. JOLO-MOLD SHALL BE REQUIRED FOR C.M. ELBOW JOINT WITH GALVANIZING. JOLOTED COATING REPAIRED AS REQ'D.

PLAN VIEW

SPLICE DETAIL (TYPICAL)

NOTE: SPLICE DETAIL IS SHOWN FOR DOUBLE CAGE REINFORCING. A SIMILAR FOR SINGLE CAGE REINFORCING, BUT WITH SINGLE SPLICE ALL AROUND REINF. APPLICABLE.

BOLT, RING & WASHER DETAILS

ALTERNATE CONNECTION FOR BOLT & RING

STEEL LIFTING BAR DETAIL

LIFT BAR SHALL BE ABLE TO MOVE UP & DOWN

CONCRETE COLLAR FOR DEFLECTING PIPE

PLAN SECTION

CONCRETE COLLAR FOR JOINTING PIPE

PLAN OR SIDE SECTION

NOTES FOR CONCRETE COLLARS:
1. DO NOT KEEP CONCRETE COLLARS DO NOT HAVE TO BE SMOOTH LINES. COLLARS MAY BE FORMED AGAINST COMPACTED OR UNDISTURBED SOIL.
2. ALL CONCRETE COLLARS ARE TO BE CONSTRUCTED WITH CLASS A CONCRETE.
3. PAYMENT FOR LIN. FT. OF PIPE INCLUDES COLLARS.

GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. ILLUSTRATED PIPES, PIPE JOINTS, ALIGNMENT, SIZES, ETC. ARE SHOWN AS SCHEMATIC/TYPICAL. ACTUAL REQUIREMENTS VARY PER LOCATION AS INDICATED IN THE PLANS.
3. JUNCTION BOXES DO NOT HAVE TO BE CONSTRUCTED SQUARE. WHEN DIMENSIONS MAY VARY ACCORDING TO PIPE SIZE.
4. ALL JUNCTION BOX TOPS SHALL BE EQUIPPED WITH EITHER AN EYE BOLT & RING (SHOWN) OR A LIFTING BAR (ALTERNATE).
5. REINFORCING IS REQUIRED FOR ALL PRECAST JUNCTION BOXES. REINFORCING MAY BE OMITTED FOR BUILT IN PLACE CONCRETE BOXES NOT OVER 6'-0" DEEP AND NOT LARGER THAN 5'-0" C. CONSTRUCTION JOINTS PERMITTED IF DOWELED OR KEYED. ALL JUNCTION BOX TOPS SHALL BE REINFORCED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
PRECAST OR BUILT IN PLACE
JUNCTION BOXES
PIPE COLLARS, PIPE ELBOW & PIPE CURVED ALIGNMENT
NO SCALE. REV. & REDR. JULY 1989
DES. ENG. SUBMITTED: Jeffrey T. Hendrix
STATE BOX & PIPE DESIGN ENGR.
DRWN. CHKD. APPROVED: Jack Kistler
STATE HIGHWAY ENGINEER
NUMBER 9031U
SHEET 1 OF 3

TYPE "A" | TYPE "B" WITH WEIR | TYPE "C" | TYPE "C" WITH WEIR | TYPE "D" | TYPE "E" (WITH HOOD)

LONGITUDINAL SECTION

CROSS SECTION

PLAN

DETAILS OF C.I. GRATING & FRAME

DETAIL OF "HOOD" NON-MOUNTABLE USE WITH TYPE CURB

DETAIL OF "HOOD" MOUNTABLE

BRICK WALL THICKNESSES (FOR ALL TYPE INLETS)

SPECIAL NOTE:
STANDARD KOWA INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 9288 IS RECOMMENDED.

NOTE:
DETAILS NOT SHOWN FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO THAT SHOWN FOR BRICK MASONRY.

CONSTRUCTION ALTERNATES

TYPE "A" OR "B"

TYPE "C" OR "E"

TYPE "D"

NOTE:
FOR LARGER PIPE SIZES TYPE "D" DROP INLET BOX WILL HAVE DETAILS AND DIMENSIONS AS SHOWN FOR TYPE "C" INLETS.

GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD AND CURRENT EDITION AND SUPPLEMENTS THERETO.
2. (a) EXPANSION JOINT WILL BE REQUIRED WHERE BOOT PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
3. ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL. SEE PLANS FOR ACTUAL PIPE TO EXIST REQUIREMENTS.
4. (a) TYPE DROP INLETS WILL BE CONSTRUCTED (S) SIGNING SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
5. WHERE MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED (S) SHOWN, BOTTOM SLAB MAY BE (1) MIN. NON-REINFORCED CONCRETE, 8" (MIN.) OR (2) MIN. REINFORCED CONCRETE, SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPE "C" OPT. (BRICK) M	M1	M2	M3	MAX.	h	MIN. h	TYPE "C" OPT. M	M1	M2	M3	MAX.	h	MIN. h	TYPE "C" OPT. (REINFORCED CONCRETE) TYPE "C"	TYPE "E"	M2	M3	MAX.	h	MIN. h
15"	2'-9"	2'-7"	2'-5½"	2'-4"	2'-0"	1'-0"	0'-7½"	2'-9"	2'-9"	2'-7½"	2'-6"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
18"	2'-9"	2'-7"	2'-5½"	2'-4"	2'-0"	1'-0"	0'-7½"	2'-9"	2'-9"	2'-7½"	2'-6"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
24"	3'-1"	2'-9"	2'-7½"	2'-6"	2'-0"	1'-0"	0'-7½"	3'-1"	2'-9"	2'-7½"	2'-6"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
30"	4'-3"	3'-0"	2'-10"	2'-8"	2'-0"	1'-0"	0'-7½"	4'-3"	3'-0"	2'-10"	2'-8"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
36"	5'-3"	3'-3"	3'-1"	2'-10"	2'-0"	1'-0"	0'-7½"	5'-3"	3'-3"	3'-1"	2'-10"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
42"	6'-4"	3'-6"	3'-4"	3'-2"	2'-0"	1'-0"	0'-7½"	6'-4"	3'-6"	3'-4"	3'-2"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
48"	7'-5"	3'-9"	3'-7"	3'-5"	2'-0"	1'-0"	0'-7½"	7'-5"	3'-9"	3'-7"	3'-5"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
54"	8'-6"	4'-0"	3'-10"	3'-8"	2'-0"	1'-0"	0'-7½"	8'-6"	4'-0"	3'-10"	3'-8"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"
60"	9'-7"	4'-3"	4'-1"	3'-11"	2'-0"	1'-0"	0'-7½"	9'-7"	4'-3"	4'-1"	3'-11"	2'-0"	1'-0"	0'-7½"	2'-0"	2'-0"	2'-1"	2'-0"	2'-0"	1'-0"	0'-7½"

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
DROP INLETS
(BUILT-IN-PLACE)
SCALE AS SHOWN REV.& REDR. AUG., 1999
DESIGNED — SUBMITTED: Jeffrey T. Hendrix
DRAWN — STATE ROAD & TRANSPORTATION ENGR.
TRACED — APPROVED: Jack Kistler
CHECKED — STATE HIGHWAY ENGINEER
NUMBER 1019A

ALTERNATE I

GENERAL NOTES
ALTERNATE I

SIDE ELEVATION | FRONT VIEW | SECTION A-A | SECTION B-B

TYPE 2 CONNECTOR DETAILS
FOR 30" AND LARGER

TYPE 3 ALTERNATE CONNECTOR (NOT SHOWN)
A DIMPLE BAND COLLAR MAY BE SHOP BOLTED TO THE END SECTION

TYPE 4 CONNECTOR
SMOOTH TAPERED SLEEVE DETAIL

TYPICAL PICTORIAL VIEW (WITH CONCRETE PIPED)

TYPICAL PICTORIAL VIEW (WITH C.M. PIPE)

TYPICAL DETAIL OF SAFETY BARS

SPECIAL NOTE:
WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN DITCH AND PIPE OUTLET IS SUCH THAT THE SAFETY END SECTIONS WOULD BE LESS THAN 50 FT., CONTINUE THE PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERNATE MAY BE SPECIFIED INSTEAD.

SIZES, DIMENSIONS, AND THICKNESSES

PIPE DIA.	MIN. THCK. IN.	GAGE	A	H	W OVERALL	W SLOPE	SLOPE LENGTH (SL)	SLOPE (SW)	LENGTH (SL)
15	.064	16	8	6	25	37	44	20	66
18	.064	16	8	6	24	40	44	32	66
24	.064	16	8	6	30	43	44	50	66
30	.109	12	12	9	36	60	44	80	66
36	.109	12	12	9	42	66	44	104	66
42	.109	12	16	12	48	80	44	128	66
48	.109	12	16	12	54	86	44	152	66

*SEE STD. NO. 9037 FOR SLOPES AT SIDE ROAD OR AT DRIVES.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
SAFETY END SECTION
(METAL)
(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)
ALTERNATE I
NO SCALE SEPT., 1993
DESIGNED — SUBMITTED: Jeffrey T. Hendrix
DRAWN — STATE ROAD & TRANSPORTATION ENGR.
TRACED — APPROVED: Jack Kistler
CHECKED — STATE HIGHWAY ENGINEER
NUMBER 122
SHEET 1 OF 3

G=4D | G | STEEL TIE ROD | FRONT ELEVATION | END ELEV. LENGTH OF CULVERT | SECTION N.N. | INLET BEVEL DETAIL

STRAIGHT WALL | U TYPE WING | 45° WINGS | FRONT VIEW | SECTION "A-A"

PLAN

DIMENSIONS						QUANTITIES ONE STRAIGHT ENDWALL					
OPENING		WALL		FOOTING		CLASS "B" CONCRETE					STEEL REINF. LBS.
D	AREA SQ.FT.	G	H	A	B	E	F	CUBIC FEET WALL	CUBIC FEET FOOTING	TOTAL CU.YDS.	
12"	0.8	3'-8"	2'-0"	2'-0"	1'-0"	1'-3"	1'-3"	15.9	15.6	0.82	NONE
15"	1.2	3'-9"	2'-3"	2'-0"	1'-0"	1'-3"	1'-3"	17.4	18.0	0.94	NONE
18"	1.8	3'-10"	2'-6"	2'-0"	1'-0"	1'-3"	1'-3"	19.0	20.4	1.03	NONE
24"	3.1	4'-0"	3'-0"	2'-0"	1'-0"	1'-3"	1'-3"	22.1	25.3	1.24	NONE
30"	4.9	4'-3"	3'-6"	2'-0"	1'-0"	1'-3"	1'-3"	25.3	30.7	1.46	NONE
36"	7.1	4'-5"	4'-0"	2'-0"	1'-0"	1'-3"	1'-3"	28.4	36.7	1.68	NONE
42"	9.6	4'-8"	4'-6"	2'-0"	1'-0"	1'-3"	1'-3"	31.6	43.2	1.91	NONE
48"	12.6	4'-10"	5'-0"	2'-0"	1'-0"	1'-3"	1'-3"	34.7	50.1	2.14	NONE
54"	16.0	5'-1"	5'-6"	2'-0"	1'-0"	1'-3"	1'-3"	37.9	57.5	2.37	NONE
60"	19.6	5'-3"	6'-0"	2'-0"	1'-0"	1'-3"	1'-3"	41.0	65.4	2.61	NONE

FOR EACH ADDITIONAL 6" RISE, LONG, ADD TO G1 60+00 OR 3 FEET, WHICHEVER IS SMALLER.

DIMENSIONS						QUANTITIES ONE "U" ENDWALL					
OPENING		WALL		FOOTING		CLASS "B" CONCRETE					STEEL REINF. LBS.
D	AREA SQ.FT.	G	H	A	B	E	F	CUBIC FEET WALL	CUBIC FEET FOOTING	TOTAL CU.YDS.	
12"	0.8	3'-8"	2'-0"	2'-0"	1'-0"	1'-3"	1'-3"	15.9	15.6	0.82	NONE
15"	1.2	3'-9"	2'-3"	2'-0"	1'-0"	1'-3"	1'-3"	17.4	18.0	0.94	NONE
18"	1.8	4'-0"	2'-6"	2'-0"	1'-0"	1'-3"	1'-3"	19.0	20.4	1.03	NONE
24"	3.1	4'-3"	3'-0"	2'-0"	1'-0"	1'-3"	1'-3"	22.1	25.3	1.24	NONE
30"	4.9	4'-6"	3'-6"	2'-0"	1'-0"	1'-3"	1'-3"	25.3	30.7	1.46	NONE
36"	7.1	4'-9"	4'-0"	2'-0"	1'-0"	1'-3"	1'-3"	28.4	36.7	1.68	NONE
42"	9.6	5'-0"	4'-6"	2'-0"	1'-0"	1'-3"	1'-3"	31.6	43.2	1.91	NONE
48"	12.6	5'-3"	5'-0"	2'-0"	1'-0"	1'-3"	1'-3"	34.7	50.1	2.14	NONE
54"	16.0	5'-6"	5'-6"	2'-0"	1'-0"	1'-3"	1'-3"	37.9	57.5	2.37	NONE
60"	19.6	5'-9"	6'-0"	2'-0"	1'-0"	1'-3"	1'-3"	41.0	65.4	2.61	NONE

3d FILL SLOPES

DIMENSIONS						QUANTITIES ONE "U" ENDWALL WITH 45° WING WALLS					
OPENING		WALL		FOOTING		CLASS "B" CONCRETE					STEEL TIE RODS
D	AREA SQ.FT.	H	G	L	W	F	CUBIC FEET WALL	CUBIC FEET FOOT	CU.YDS.	TOTAL	
18"	1.8	2'-10"	3'-10"	7'-7"	7'-7"	1'-3"	5.3	10.7	20.0	0.74	NONE
24"	3.1	3'-10"	4'-4"	7'-7"	7'-7"	1'-3"	7.2	14.4	27.5	1.02	2-⅝"DIA.x2'-0"
30"	4.9	3'-6"	4'-10"	7'-9"	7'-9"	1'-3"	9.4	18.8	36.7	1.34	2-⅝"DIA.x2'-0"
36"	7.1	4'-0"	5'-4"	7'-9"	7'-9"	1'-3"	11.6	23.6	47.2	1.73	2-⅝"DIA.x2'-0"
42"	9.6	4'-3"	5'-10"	7'-9"	7'-9"	1'-3"	13.8	28.4	59.0	2.16	2-⅝"DIA.x2'-0"
48"	12.6	5'-0"	6'-4"	7'-9"	7'-9"	1'-3"	16.0	33.2	71.3	2.59	2-⅝"DIA.x2'-0"
54"	16.0	5'-6"	6'-10"	7'-9"	7'-9"	1'-3"	18.2	38.0	83.6	3.03	2-⅝"DIA.x2'-0"
60"	19.6	6'-0"	7'-4"	7'-9"	7'-9"	1'-3"	20.4	42.8	96.0	3.48	2-⅝"DIA.x2'-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	W	F	CUBIC FEET WALL	CUBIC FEET FOOT	CU.YDS.	TOTAL	
18"	1.8	2'-10"	3'-10"	7'-7"	7'-7"	1'-3"	5.3	10.7	20.0	0.74	NONE
24"	3.1	3'-10"	4'-4"	7'-7"	7'-7"	1'-3"	7.2	14.4	27.5	1.02	2-⅝"DIA.x2'-0"
30"	4.9	3'-6"	4'-10"	7'-9"	7'-9"	1'-3"	9.4	18.8	36.7	1.34	2-⅝"DIA.x2'-0"
36"	7.1	4'-0"	5'-4"	7'-9"	7'-9"	1'-3"	11.6	23.6	47.2	1.73	2-⅝"DIA.x3'-0"
42"	9.6	4'-3"	5'-10"	7'-9"	7'-9"	1'-3"	13.8	28.4	59.0	2.16	2-⅝"DIA.x3'-0"
48"	12.6	5'-0"	6'-4"	7'-9"	7'-9"	1'-3"	16.0	33.2	71.3	2.59	2-⅝"DIA.x3'-0"
54"	16.0	5'-6"	6'-10"	7'-9"	7'-9"	1'-3"	18.2	38.0	83.6	3.03	2-⅝"DIA.x3'-0"
60"	19.6	6'-0"	7'-4"	7'-9"	7'-9"	1'-3"	20.4	42.8	96.0	3.48	2-⅝"DIA.x3'-0"

METHOD OF EXTENDING PIPE AND RETAINING EXISTING HEADWALL

PLACE BED OF MORTAR TO RECEIVE PIPE

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.

STEEL TIE RODS

SECTION RUN

FRONT ELEVATION

PLAN

4-D TYP.

SECTION RUN

FRONT ELEVATION

PLAN

4-D TYP.

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	4D	CU.YDS. CONC.	STEEL TIE RODS
15"	1.2	3'-3"	5'-0"	0.98	2-⅝"DIA.x5'-0"
18"	1.8	3'-6"	6'-0"	1.26	2-⅝"DIA.x6'-0"
24"	3.1	4'-0"	8'-0"	1.55	2-⅝"DIA.x8'-0"
30"	4.9	3'-6"	10'-0"	2.00	2-⅝"DIA.x10'-0"
36"	7.1	4'-0"	12'-0"	2.46	2-⅝"DIA.x12'-0"
42"	9.6	4'-6"	14'-0"	2.98	2-⅝"DIA.x14'-0"
48"	12.6	5'-0"	16'-0"	3.53	2-⅝"DIA.x16'-0"
54"	16.0	5'-6"	18'-0"	4.13	2-⅝"DIA.x18'-0"
60"	19.6	6'-0"	20'-0"	4.85	2-⅝"DIA.x20'-0"

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

BOTTOM OF BASE FOR SHOULDER | BOTTOM OF BASE OR CONCRETE PAVEMENT | SHLDR. BASE | 18" MIN. | 30" MIN. | BASE

NOTES 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 — SUBMITTED: Jeffrey T. Hendrix
DRAWN — STATE ROAD & TRANSPORTATION ENGR.
TRACED — APPROVED: Jack Kistler
CHECKED — STATE HIGHWAY ENGINEER
NUMBER 1001-B

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UtilitiesServices shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and note the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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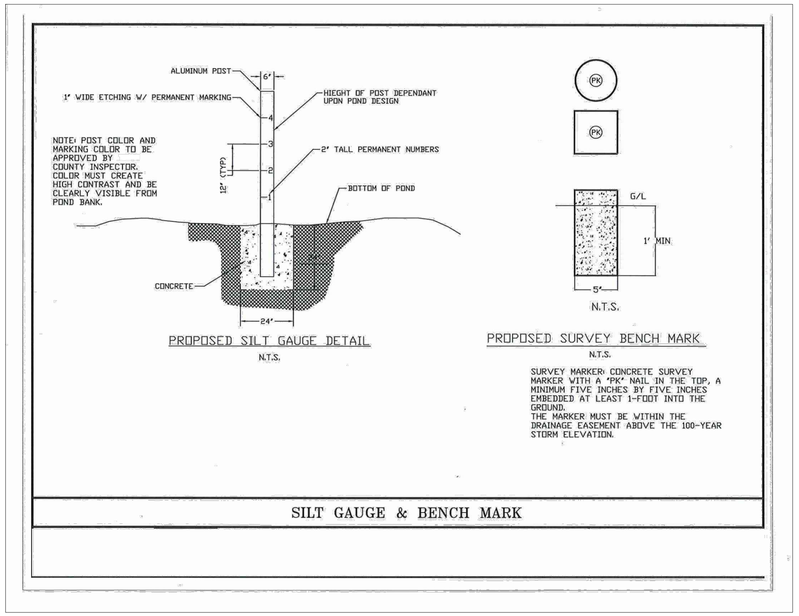
Sheet Title

STORMWATER MANAGEMENT DETAILS

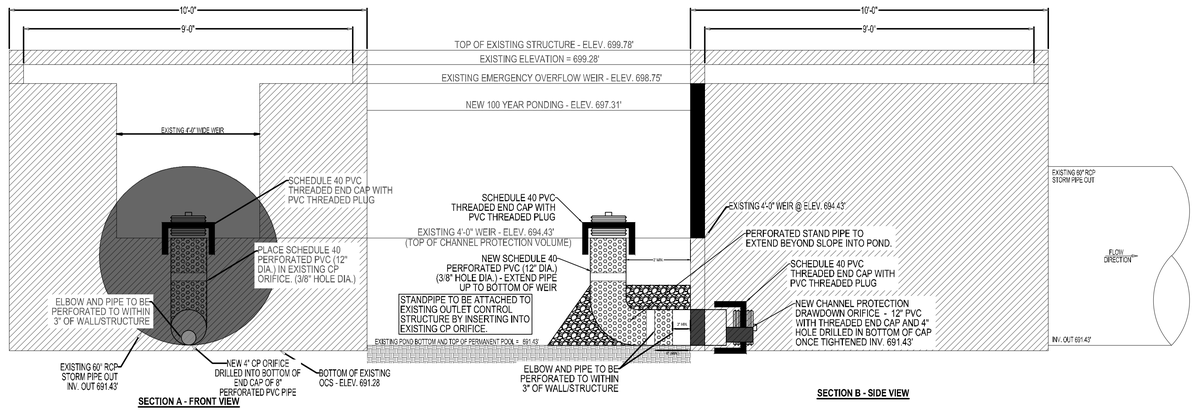
Sheet Number

C-4.4

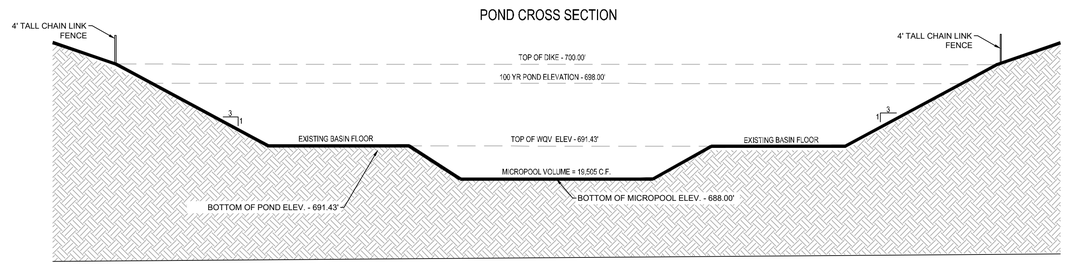
ALPHA SITE SET 08-08-2024



PERFORMATED STANDPIPE DETAIL



EXISTING SQUARE OUTLET CONTROL STRUCTURE TO REMAIN



ALPHA SITE SET 08-08-2024

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Professional Seal

GEORGIA REGISTERED NO. PE024659 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
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Sheet Title

STORMWATER MANAGEMENT DETAILS

Sheet Number

C-4.5

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SOIL TABLE & NOTES

NRCS SOIL SERIES	DEPTH TO ROCK INCHES	DEPTH TO SEASONAL HIGH WATER TABLE INCHES	RECOMMENDED TRENCH DEPTH INCHES	ESTIMATED PERCOLATION RATE MIN/IN	DPH CODE
APPLING	>72	>72	24-36	75	A
HARD LABOR 1	>72	36-48	6-12	0.10 GAL/D/SF	C
HARD LABOR 2	>72	48-54	18-24^	90	P
HELENA	>72	20-36	NA	NA	F
STARR	>72	36->72	NA	NA	D

^ TRENCH DEPTH AS DEEP AS 36" WITH CLASS 1 EFFLUENT (SEE P CODE).
* SEASONAL HIGH WATER TABLE INDICATED BY CHROMA 2 OR LESS REDOX FEATURES.
- HARD ROCK DEFINED AS MATERIAL IMPENETRABLE BY HAND AUGER, EXCLUDING SOFT SAPROLITE.

DPH SUITABILITY CODES:

C: DUE TO SEASONAL HIGH WATER TABLE INDICATORS AND/OR DRAINAGE PROBLEMS, FAILURE OF A CONVENTIONAL SYSTEM IS PROBABLE. ALTERNATIVE SYSTEMS MAY BE CONSIDERED, CONSULT LOCAL DEPARTMENT OF HEALTH. DESIGN AND INSTALLATION OF AN ALTERNATIVE SYSTEM ON THESE SOIL TYPES MUST BE APPROVED BY THE LOCAL ENVIRONMENTAL HEALTH SPECIALIST.

D: SOILS ARE LOCATED IN NATURAL DRAINAGE WAYS AND ARE SUBJECT TO INUNDATION DURING STORM EVENTS. THESE AREAS ARE NOT SUITED FOR SEPTIC SYSTEM APPLICATION.

F: UNSUITABLE FOR SEPTIC SYSTEM APPLICATION UNDER MOST CIRCUMSTANCES DUE TO ROCK AND/OR SEASONAL HIGH WATER TABLE AT OR NEAR THE SURFACE.

J: SOILS ARE SUBJECT TO SLOW PERCOLATION DUE TO HIGH CLAY CONTENTS AND LANDSCAPE POSITIONS. THIS SOIL IS WELL DRAINED WITH MODERATE PERMEABILITY DUE TO GOOD STRUCTURE IN THE UPPER BT HORIZON AND HAS SLOWER PERMEABILITY BELOW 4-5' AS STRUCTURE WEAKENS. THIS STRUCTURE IS EASILY DAMAGED DURING INSTALLATION, ESPECIALLY UNDER WET TO MOIST CONDITIONS. EXTRA CARE SHOULD BE TAKEN TO AVOID SMEARING OF TRENCH WALLS UPON INSTALLATION. A SHALLOW INSTALLATION SHOULD PROVIDE ADEQUATE PERCOLATION FOR A CONVENTIONAL DRAIN FIELD. SOME UNITS MAY BE FOUND IN LOWER LANDSCAPE POSITIONS THAT ARE SUBJECT TO WATER COLLECTION. THESE SITES SHOULD BE CONSIDERED FOR SITE ALTERATIONS TO DIVERT STORM WATER FLOW FROM DRAIN FIELD AREAS.

P: SOILS HAVE SEASONAL SATURATION OR INCIPIENT WATER TABLE IN LOWER HORIZONS AND ARE SUBJECT TO SLOW PERMEABILITY IN THE UPPER HORIZONS DUE TO FINE TEXTURES. SOILS MAY BE CONSIDERED FOR CONVENTIONAL SYSTEM APPLICATION WITH A SHALLOW INSTALLATION. IF TRENCH DEPTHS EXCEED 24". CLASS 1 EFFLUENT (AEROBIC TREATMENT OR EQUIVALENT) WILL BE REQUIRED TO ALLOW FOR 1' SEPARATION FROM TRENCH BOTTOM TO SEASONAL HIGH WATER TABLE INDICATORS. AREAS WITH IN THESE UNITS THAT ARE IN CONCAVE LANDSCAPE POSITIONS MAY BE CONSIDERED FOR WATER DIVERSION MECHANISMS UPGRADIENT OF DRAIN FIELD SITE. EXTRA CARE SHOULD BE TAKEN TO AVOID SMEARING OF TRENCH WALLS OR DAMAGE TO SOIL STRUCTURE UPON INSTALLATION.

WATER UTILITY ENLARGEMENT VIEW

SCALE: 1"=10'

6"X8" TAPPING SLEEVE W/VALVE & BOX
PROPOSED UTILITY ACCESS EASEMENT
3-WAY FIRE HYDRANT ASSEMBLY
6"x6"x6" TEE
6"x6"x2" TEE AND VALVE
6" DIP FIRE
2" DOMESTIC METER (VERIFY SIZE WITH MEP PRIOR TO INSTALLATION)
FIRE VAULT WITH DOUBLE DETECTOR CHECK
BACKFLOW PREVENTER
PIV
FDC
PRV

ALPHA SITE SET 08-08-2024

SEE ENLARGEMENT BELOW ON THIS SHEET
PROPOSED UTILITY ACCESS EASEMENT
6" FIRE LINE TO DDC
2" DIP FIRE SERVICE LINE
2" PCV DOMESTIC WATER
FIRE AND DOMESTIC WATER SERVICES REFER TO MEP PLANS FOR EXACT LOCATION AND CONTINUATION TO BUILDING
4" SS TO GREASE TRAP REFER TO MEP PLANS FOR EXACT LOCATION, INVERT, AND CONTINUATION TO BUILDING
4" SS REFER TO MEP PLANS FOR EXACT LOCATION, INVERT, AND CONTINUATION TO BUILDING
SSCO TOP:727.26 INV OUT:724.90 - 4"
SSCO TOP:726.77 INV IN:724.01 - 4" INV OUT:723.91 - 4"
SSCO TOP:727.00 INV IN:723.57 - 4" INV OUT:723.61 - 4"
SSCO TOP:727.34 INV IN:723.47 - 4" INV OUT:723.37 - 4"
SSCO TOP:727.32 INV IN:723.88 - 4" INV OUT :723.56 - 4"
SSCO TOP:726.62 INV IN:722.88 - 4" INV OUT:722.78 - 4"
SSCO TOP:726.67 INV IN:722.72 - 4" INV OUT:722.66 - 4"
SSMH TOP:726.90 INV IN:722.82 - 4" INV OUT:722.12 - 4"
SSCO TOP:727.08 INV IN:721.96 - 4" INV OUT:721.86 - 4"
SSCO TOP:726.33 INV IN:721.61 - 4" INV OUT:721.51 - 4"
SSCO TOP:726.91 INV IN:721.44 - 4" INV OUT:721.34 - 4"
SSCO TOP:726.77 INV IN:722.71 - 4" INV OUT:722.61 - 4"
SSCO TOP:726.51 INV IN:722.44 - 4" INV OUT:722.34 - 4"
SSCO TOP:723.45 INV IN:719.73 - 4" INV OUT:719.63 - 4"
SSCO TOP:724.18 INV IN:720.62 - 4" INV OUT:720.52 - 4"
66.00' 4" SDR 26 PVC @ 1% MIN.
34.34' 4" SDR 26 PVC @ 1% MIN.
25.34' 4" SDR 26 PVC @ 1% MIN.
14.21' 4" SDR 26 PVC @ 1% MIN.
66.00' 4" SDR 26 PVC @ 1% MIN.
68.24' 4" SDR 26 PVC @ 1% MIN.
17.13' 4" SDR 26 PVC @ 1% MIN.
38.50' 4" SDR 26 PVC @ 1% MIN.
6.28' 4" SDR 26 PVC @ 1% MIN.
7.03' 4" SDR 26 PVC @ 1% MIN.
117.77' 4" SDR 26 PVC @ 1% MIN.
78.61' 4" SDR 26 PVC @ 1% MIN.
62.89' 4" SDR 26 PVC @ 1% MIN.
MIN. 1,050 GAL. GREASE TRAP
1,500 GAL. SEPTIC TANK
1,500 GAL DOSING TANK CONTROL PANEL WITH ALARMS AND PIPING TO DISTRIBUTION BOX.
8 HOLE DISTRIBUTION BOX WITH LEVEL 4" CONCRETE SLAB EXTENDING 4' BEYOND EDGE OF BOX
ALL DOSING TANKS, PUMPS, CONTROLS, ALARMS, AND PRESSURE PIPING TO DISTRIBUTION BOXES TO BE DESIGNED BY OTHERS
ALL PIPING FROM DISTRIBUTION BOXES TO SEPTIC INFILTRATOR CHAMBERS SHALL BE SOLID 4" SCH 40 PVC TYPICAL, AT A MINIMUM OF 2.0% SLOPE
ALL PIPING FROM DISTRIBUTION BOXES TO INFILTRATOR CHAMBERS SHALL BE SOLID 4" SCH 40 PVC TYPICAL, AT MIN. 2% SLOPE
ALL LINES TO BE INFILTRATOR© QUICK4© HIGH CAPACITY CHAMBERS
PRIMARY SEPTIC DRAIN FIELD HIGH CAPACITY CHAMBERS FOR TOTAL TRENCH LENGTH OF 560 LF. (8) 70 LF INFILTRATOR LINES AT 8' OC. 3' WIDE TRENCHES @ 0% SLOPE
APPROX. 21,400 SF SEPTIC RESERVE AREA
POTENTIAL LAYOUT FOR RESERVE SEPTIC DRAIN FIELD WITH STANDARD CHAMBER SYSTEM
MINIMUM REQUIRED: 949 LF @ 90 MIN/IN INFILTRATION RATE
PROVIDED: (8) 125 LF INFILTRATOR LINES AT 8' OC. 3' WIDE TRENCHES @ 0% SLOPE
EX. DITCH
15' SEPTIC SETBACK
EDGE OF EXISTING PAVEMENT PER AERIAL IMAGERY
LIMITS OF SOIL SURVEY
60 FT BUILDING SETBACK
ABLE R/W GEORGIA HIGHWAY 212
CONCRETE FLUME
CONCRETE
8" DIP
8" PVC
1/2" RBF
CMF
HARD LABOR 2 2-6%
HARD LABOR 1 2-6%
STARR 2-6%
APPLING 2-6%
HELENA 0-2%
ZONED: A-R
TMP: 0008 002H
NEWTON COUNTY
BOARD OF COMMISSIONERS
DB 2228, PG 487

I CERTIFY THIS ON-SITE SEWAGE MANAGEMENT SYSTEM MEETS THE MINIMUM DESIGN REQUIREMENTS ESTABLISHED BY THE DEPARTMENT OF HUMAN RESOURCES. I HAVE MADE A SITE VISIT TO VERIFY THE SYSTEM CAN BE INSTALLED IN ACCORDANCE WITH THESE REGULATIONS.

SEPTIC SYSTEM CALCULATIONS FOR ESTIMATED FLOW:

THE SEPTIC SYSTEM IS SIZED BASED ESTIMATED DAILY USAGE CALCULATIONS PROVIDED BY NEWTON COUNTY ENVIRONMENTAL HEALTH.

TOTAL FLOW = 1,500 GPD

SEPTIC SYSTEM CALCULATIONS FOR LENGTH OF LINE REQUIRED:

TOTAL FLOW = 1,500 GPD

CALCULATION FOR LENGTH OF LINE REQUIRED:
3 FT WIDE TRENCHES, 8FT ON CENTER

PER SOILS STUDY PERC RATE IN SYSTEM: 75 MIN/IN

REQUIRED L/F= [(SQ RT 75)/ 5) * 1,500 GPD)] / 3FT = 860 LF

HIGH CAPACITY INFILTRATOR CHAMBERS WILL BE USED, AND SO A 35% REDUCTION IN DRAIN FIELD LINE IS ALLOWED. (0.65 * 680 LF = 560 LF)

PRIMARY SEPTIC FIELD PROVIDED = 560 LF
(8) 70 LF INFILTRATOR LINES AT 8' OC
(3' WIDE TRENCHES @ 0.0% SLOPE)

RECOMMENDED INSTALLATION DEPTH IS 24-36 INCHES

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
SCALE: 1" = 30'

GA STATE PLANE EAST

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
ADDRESS: 1124 CLARK STREET
COVINGTON, GA 30014
PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL:jprine@ascension-pm.com

CONTRACTOR
COMPANY: SULBELT BUILDERS
ADDRESS: 10641 HWY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY
PHONE: 404.644.2939
EMAIL: mmccrorey@sunbeltbuilders.com

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
MIKE MCCROREY
404.644.2939

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GEORGIA REGISTERED NO. PE024855 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
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Sheet Title
UTILITY PLAN

Sheet Number
C-5.0

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.

NPDES PERMIT PART IV.

(I). EXCEPT AS PROVIDED IN PART V (VII) BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED (V) NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED; OR ALONG ANY EPHEMERAL STREAM, OR WHERE BULKHEADS AND SEWALLS MUST BE CONSTRUCTED TO PREVENT THE EROSION OF THE SHORELINE ON LAKE OCONEE AND LAKE SINCLAIR. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS
2. STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER.
3. STREAM CROSSINGS FRO ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF TH FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION, OR DISTRIBUTION OF POWER, PROVIDED THAT: (A) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, (B) NATIVE RAPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (C) THE ENTITY IS NO A SECONDARY PERMITTEE FOR A PROJECT WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
4. BUFFER CROSSINGS FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS WITHIN THE BUFFER.
5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCE TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E. DISTURBANCE OF UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE. ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION.
6. RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCE IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY MUNICIPALITY, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
7. RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF TH FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
8. MAINTENANCE (EXCLUDING DREDGING), REPAIR AND/OR UPGRADE OF SOIL AND WATER CONSERVATION DISTRICT WATERSHED DAMS WHEN UNDER THE TECHNICAL SUPERVISION OF USDA NATURAL RESOURCES CONSERVATION SERVICE.

(II) NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAM" EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WIT THE PROVISIONS OF O.C.G.A. 12-7-6. OR WHERE A DRAINAY DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS TROUT STREAMS WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE SUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS
2. STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER.
3. STREAM CROSSINGS FRO ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF TH FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, (B) NATIVE RAPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (C) THE ENTITY IS NO A SECONDARY PERMITTEE FOR A PROJECT WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
4. BUFFER CROSSINGS FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS WITHIN THE BUFFER.
5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCE TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E. DISTURBANCE OF UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE. ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION.
6. RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCE IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY MUNICIPALITY, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
7. RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATED ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
8. MAINTENANCE (EXCLUDING DREDGING), REPAIR AND/OR UPGRADE OF SOIL AND WATER CONSERVATION DISTRICT WATERSHED DAMS WHEN UNDER THE TECHNICAL SUPERVISION OF USDA NATURAL RESOURCES CONSERVATION SERVICE.

(III). EXCEPT AS PROVIDED IN PART IV (II) BELOW, NO CONSTRUCTION ACTIVITY SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG COASTAL MARSHLANDS, AS MEASURED HORIZONTALLY FROM THE COASTAL MARSHLAND-UPLAND INTERFACE, AS DETERMINED IN ACCORDANCE WITH PART 4 OF ARTICLE 4 OF CHAPTER 5 OF TITLE 12, THE COASTAL MARSHLANDS PROTECTION ACT OF 1970, AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6. OR WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO CODE SECTION 12-2-8, OR WHERE AN ALTERATION WITHIN THE BUFFER AREA HAS BEEN AUTHORIZED PURSUANT TO CODE SECTION 12-5-286, OR FOR MAINTENANCE OF ANY CURRENTLY SERVICEABLE STRUCTURE, LANDSCAPING, OR HARDSCAPING, INCLUDING BRIDGES, ROADS, PARKING LOTS, GOLF COURSES, GOLF CART PATHS, RETAINING WALLS, BULKHEADS, AND PATIOS, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY STRUCTURE IS CONSTRUCTED OR MAINTAINED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED, OR ON THE LANDWARD SIDE OF ANY CURRENTLY SERVICEABLE SHORELINE STABILIZATION STRUCTURE, OR FOR THE MAINTENANCE OF ANY MANMADE STORMWATER DETENTION BASIN, GOLF COURSE POND, OR IMPOUNDMENT THAT IS LOCATED ENTIRELY WITHIN THE PROPERTY OF A SINGLE INDIVIDUAL PARTNERSHIP, OR CORPORATION PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND SUCH MEASURES ARE FULLY IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:

1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS
2. CROSSINGS FOR UTILITY LINES THAT CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER
3. ANY LAND DISTURBING ACTIVITY CONDUCTED PURSUANT TO AND IN COMPLIANCE WITH A VALID AND EFFECTIVE LAND-DISTURBING PERMIT ISSUED SUBSEQUENT TO APRIL 22, 2014 AND PRIOR TO DECEMBER 31 2015.
4. ANY LOT FOR WHICH THE PRELIMINARY PLAT HAS BEEN APPROVED PRIOR TO DECEMBER 31, 2015 IF ROADWAYS, BRIDGES, OR WATER AND SEWER LINES HAVE BEEN EXTENDED TO SUCH LOT PRIOR TO THE EFFECTIVE DATE OF THIS ACT AND IF THE REQUIREMENT TO MAINTAIN A 25 FOOT BUFFER WOULD CONSUME AT LEAST 10 PERCENT OF THE HIGH GROUND OF THE PLATTED LOT OTHERWISE AVAILABLE FOR DEVELOPMENT.
5. BUFFER CROSSINGS FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE AREAS WITHIN THE BUFFER.
6. CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCE TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E. DISTURBANCE OF UNDERLYING VEGETATION IS MINIMIZED), AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE. ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION.
7. RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
8. RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS, AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATED ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT (A) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE, (B) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE, (C) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND (D) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT; AND
9. MAINTENANCE (EXCLUDING DREDGING), REPAIR AND/OR UPGRADE OF SOIL AND WATER CONSERVATION DISTRICT WATERSHED DAMS WHEN UNDER THE TECHNICAL SUPERVISION OF USDA NATURAL RESOURCES CONSERVATION SERVICE.

(IV). EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV (I), AND (II) AND (III), NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THIS PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED OR MARSH.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CERTIFICATION:

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted; provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100001.

Signed _____ Date: 3.25.2024

Georgia Civil Inc.
JASON P. BROWN
Level II Certified Design Professional # 52374 EXP. 5-1-2026

I, JASON P. BROWN, 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.

Signed _____ Date: 3.25.2024
SIGNATURE OF PLAN PREPARER AND DATE

"The design professional who prepared the ESⅭ Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.3.page 25 of the permit. "

Signed _____ Date: 3.25.2024
SIGNATURE OF PLAN PREPARER AND DATE

NOTE: CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS ON ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND ANY SUCH OTHER MATERIALS IN ORDER TO REDUCE EXPOSURE TO PRECIPITATION AND STORMWATER.

GSWCC EROSION CONTROL NOTES:

1. Any amendments/revisions to the ESⅭ 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. 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.
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 disturbance left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

ADDITIONAL EROSION CONTROL NOTES:

1. Maximum cut slopes are 3:1, 3 horizontal to 1 vertical, unless otherwise noted.
2. Maximum fill slopes are 3:1, 3 horizontal to 1 vertical, unless otherwise noted.
3. All buffers, tree save areas, and/or limits of disturbance shall be clearly marked in the field by the contractor by flagging or fencing and signage, prior to commencement of any land disturbance activities or clearing/grubbing activities. Buffers, tree save areas, and areas beyond limits of disturbance are to be left undisturbed in their natural state.
4. Contractor shall not disturb underground utilities while installing Erosion, Sedimentation and Pollution Control Practices. Contractor shall have all utilities field located before proceeding with any work.
5. Contractor shall notify design professional 48 hours before beginning each phase of construction.
6. Contractor shall notify NEWTON COUNTY inspectors 24 hours before beginning each phase of construction.
7. Construction debris and/or waste shall not be buried or burned on site. All construction debris and/or waste shall be taken to a state approved landfill.
8. All buffers and tree save areas shall be clearly identified by flagging and/or fencing prior to commencement of any land disturbance activities.
9. The installation of erosion and sedimentation control measures and practices shall occur prior to or concurrent with land disturbing activities and construction on the site and shall be maintained until permanent ground cover is established to 90%.
10. All initial phase Erosion, Sedimentation and Pollution Control best management practices shall be installed prior to any grading.
11. All Erosion, Sedimentation and Pollution Control best management practices shall be inspected and repaired of damage daily. Any accumulated silt shall be removed and spread on site and controlled with temporary mulching and/or grassing.
12. Erosion, Sedimentation, and Pollution Control best management practices shall be maintained at all times. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OR AS REQUIRED BY ENGINEER OR LOCAL JURISDICTION INSPECTOR.
13. Maintenance of all soil erosion and sedimentation control measures and practices whether temporary or permanent shall be the responsibility of the contractor.
14. Any discrepancy within these plans shall be referred to the design professional by the contractor for clarification before proceeding with work.
15. Sediment storage maintenance indicators must be installed in sediment storage structures, indicating the 1/3 full volume.
16. Contractor shall provide temporary diversion berms and down drains on fill slopes to prevent erosion prior to stabilization.
17. Contractor shall remove accumulated sediment from detention basin at end of construction when all disturbed areas have been fully stabilized.

REVISIONS SHOWN ON ES&PC PLAN:

Amendments/revisions to the ESⅭ Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.

INTENDED LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE:

Initial Phase:

1. Preconstruction meeting with NEWTON COUNTY
2. Perform initial monitoring
3. Install construction exit
4. Install initial silt fence (perimeter silt fence locations first)
5. Provide any needed initial mulching, grassing or other ground cover
6. Install tossoil location silt fence
7. Begin clearing, grubbing, topsoiling, and grading operations within limits of detention ponds & install construction road install appropriate vegetative and structural BMPs (inlet / outlet protection, flocculants / coagulants, mulching / grassing, etc.)
8. Install wheel wash and fuel storage location (if necessary)
9. Coordinate Site Review Meeting with Engineer and/or Local Issuing Authority

Intermediate Phase:

1. Install storm pipe systems with protected inlets (Sd2's)
2. Throughout land disturbance process, maintain existing BMP's (Vegetative and Structural Practices)
3. Throughout land disturbance process, continue NPDES monitoring and reporting
4. Coordinate with utility companies on utility/sleeve locations
5. Begin remaining clearing, grubbing, tossoiling, and grading operations
6. Install tossoil pile at stockpile location and immediately grass/mulch and install any remaining tossoil locations silt fence
7. Perform initial sediment storage (adjust storm risers with grade change(s) and adjust all affected Sd2's)
8. As areas are brought to finish grade, grass and blanket any areas that are finish grade or that will be left bare for 7 days
9. Adjust storm risers with grade change(s) and adjust all Sd2's
10. Each fill slope shall have a diversion at the top that is maintained and reinstalled as the slope is constructed
11. Continue flocculant / coagulant applications and continue every 7 days throughout project
12. Install remaining storm system's as grades are achieved
13. Immediately install each storm structure with associated Sd2's and add floc logs to each storm structure
14. Grass / mulch / flocculant / coagulant disturbed areas and install intermediate BMPs
15. Install utilities (water and septic/sewer)
16. 16. Grass / mulch / flocculant / coagulant disturbed areas and install intermediate BMPs
17. Install GAB throughout roadway up to designated line
18. Grass / mulch / flocculant / coagulant disturbed areas and install intermediate BMPs
19. Install curb & gutter
20. Grass / mulch / flocculant / coagulant disturbed areas and install intermediate BMPs
21. Install pavement
22. Finish grade shoulders and stabilize disturbed areas with permanent vegetation

Final Phase:

1. Throughout land disturbance process, maintain existing BMP's (vegetative and structural practices)
2. Throughout land disturbance process, continue NPDES monitoring and reporting
3. Complete paving operations
4. Achieve Final Site Stabilization
5. Coordinate Site Review Meeting with Engineer and/or Local Issuing Authority Inspector
6. Clean silt from all storm systems (distribute onsite and stabilize)
7. Remove any temporary BMP practices once site stabilization is achieved and signed off by Engineer
8. Coordinate Site Review Meeting with Engineer for final site approval

CONCRETE WASHOUT:

Contractor shall install a concrete washdown. This area is only for the washdown of items such as tools, concrete mixer chutes, hoppers and the rear of the vehicles.
WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED

WASTE DISPOSAL, SANITARY SEWER, SEPTIC TANK REGULATIONS (ES&PC PLAN COMPLIANCE):

Construction Debris shall be recycled to the extent deemed practical by Owner/Contractor. All waste generated from the development of this site,including but not limited to solid waste, liquid waste, chemical waste, petroleum waste, concrete truck chute and pump discharge, waste from the washout facility, shall be collected and disposed of in a manner that follows all local, state, and federal laws and regulations for collection and disposal of each type of waste. All required signage, notification, documentation, and training of personnel on correct handling of waste shall be done in a manner that follows all local, state, and federal laws and regulations. Owner/Contractor is responsible for obtaining the services (and facilities) of a licensed Waste Management Contractor in the state of Georgia to adequately and quickly handle waste collection and disposal. Solid materials, including building materials, shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

BMP'S FOR PETROLEUM SPILLS AND LEAKS:

1. Fix any leaks immediately, maintain and clean equipment regularly
2. Designate areas for equipment maintenance and fueling that are located on level ground and away from any water sources
3. Park and service equipment on top of bags to insure any spills or leaks do not get into the ground.
4. Store all fluids and containers in a leak-proof, locked container to insure safe storage.
5. Collect and remove all leftover lubricants,

REQUIRED INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE:

PERMITTEE REQUIREMENTS.

(1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2) MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THIS PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR

ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):

(a) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OF THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF NON-COMPLIANCE, PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN, WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION,

SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE SAMPLES:

1. **SAMPLING REQUIREMENTS.** THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

a. *SAMPLING REQUIREMENTS* SHALL INCLUDE THE FOLLOWING:

(1). A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

b. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED). THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY. BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. *SAMPLING POINTS.*

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED (LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS
II.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

d. *SAMPLING FREQUENCY.*

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW, FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL, LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS. IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6). MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED, PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND
(a) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

RETENTION OF RECORDS:

THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

1. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION OR OTHER REPORTS REQUIRED BY THE EPD), EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERICO MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

NPDES Permit Part IV.E. Reporting:

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSES, INCLUDING TIME BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU" AND
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO:

NORTHEAST DISTRICT- ATHENS
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
745 GAINES SCHOOL RD.
ATHENS, GA 30605
(706) 369.6376

THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

INITIAL INSPECTION AND REPORTING:

For common developments that begin construction activity after the effective date of this permit, the primary permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, except when the primary permittee has requested in writing and EPD has agreed to an alternate design professional, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs which the design professional designed within seven (7) days after installation. The design professional shall determine if these BMPs have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the primary permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required.

MINIMUM QUALIFICATIONS OF INSPECTORS:

"Design Professional" means a professional licensed by the state of GA in the field of: engineering, architecture, landscape architecture, forestry, geology, or land surveying; or a person that is a certified professional in erosion and sediment control (CPESC) with a current certification by Envirocert International, Inc. Design professionals shall practice in a manner that complies with applicable GA law governing professional licensure.

"Certified Personnel" means a person who has successfully completed the appropriate certification course approved by the GEORGIA SOIL AND WATER Conservation Commission.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

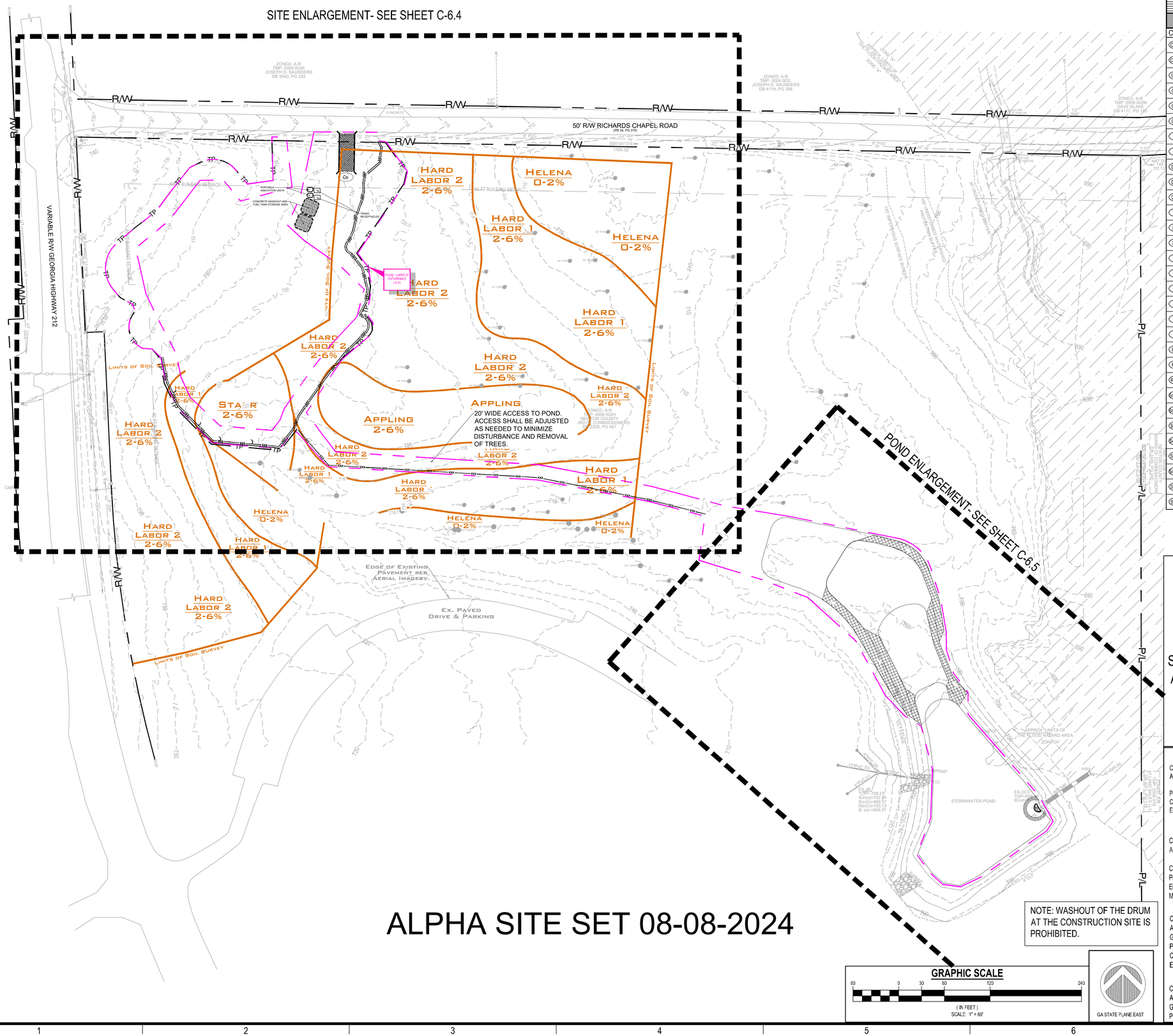
SWCD: UPPER OCMULGEE RIVER- REGION 4

Project Name: NC SENIOR ENRICHMENT CENTER **Address:** 6244 HIGHWAY 212, COVINGTON, GA 30014
City/County: CITY OF COVINGTON/ NEWTON COUNTY **Date on Plans:** 7/16/2024
Name & email of person filling out checklist: JASON@GEORGIACIVIL.COM

TO BE SHOWN ON ES&PC PLAN

Page #	Y/N	
C-6.2	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)
C-6.1, C-6.12	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		3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
C-6.1, C-6.12	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C-6.1	Y	5 Provide the name, address, email address, and phone number of primary permittee.
C-6.1	Y	6 Note total and disturbed acreages of the project or phase under construction.
C-6.1	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ALL	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C-6.1	Y	9 Description of the nature of construction activity and existing site conditions.
C-6.1	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C-6.1	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
C-6.1	Y	12 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 19 of the permit.
C-6.1	Y	13 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 19 of the permit. *
C-6.1	Y	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 and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *
C-6.1	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."
	N/A	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C-6.1	Y	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." *
C-6.1	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
C-6.1	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."
C-6.1	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."
C-6.1	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	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	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. *
C-6.1	Y	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. *
C-6.1	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
C-6.1	Y	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. *
C-6.1	Y	27 Description of practices to provide cover for building materials and building products on site. *
C-6.1	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C-6.2	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).
C-6.2	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
C-6.2	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C-6.2	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
C-6.2	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
C

SITE ENLARGEMENT- SEE SHEET C-6.4


50' R/W RICHARDS CHAPEL ROAD
VARIABLE R/W GEORGIA HIGHWAY 212
HARD LABOR 2 2-6%
HARD LABOR 1 2-6%
HELENA 0-2%
STARR 2-6%
APPLING 2-6%
APPLING
20' WIDE ACCESS TO POND. ACCESS SHALL BE ADJUSTED AS NEEDED TO MINIMIZE DISTURBANCE AND REMOVAL OF TREES.
POND ENLARGEMENT- SEE SHEET C-6.5
LIMITS OF SOIL SURVEY
EDGE OF EXISTING PAVEMENT PER AERIAL IMAGERY
EX. PAVED DRIVE & PARKING
STORMWATER POND
APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE"A"
ZONED: A-R TMP: 0008 002C JOSEPH D. SAUNDERS DB 5540, PG 229
ZONED: A-R TMP: 0008 002D JOSEPH D. SAUNDERS DB 4119, PG 398
ZONED: A-R TMP: 0008 002M DAVE BLAKE DB 4117, PG 195
ZONED: A-R TMP: 0008 002H NEWTON COUNTY NEWTON COUNTY COMMISSIONERS DB 2028, PG 487
PHASE 1 LIMITS OF DISTURBANCE (18 AC)
PORTABLE SANITATION UNITS
CONCRETE WASHOUT AND FUEL TANK STORAGE AREA
TRASH RECEPTACLES
60' BUILDING SETBACK
30' UNDISTURBED BUFFER
100' WATERCOURSE SURFACE BUFFER
NO DISTURBANCE WITHIN THIS AREA PROTECTION BUFFER
RIP-RAP
EX. 12"DI
EX. 18"CMP
EX. 24"CMP
EX. 30"CMP
EX. 36"CMP
EX. 48"CMP
EX. 6' CURB INLET
EX. 5' DROP INLET
EX. 4' DROP INLET
EX. 6' DROP INLET
EX. 8' DROP INLET
EX. 10' DROP INLET
EX. 12' DROP INLET
EX. 14' DROP INLET
EX. 16' DROP INLET
EX. 18' DROP INLET
EX. 20' DROP INLET
EX. 22' DROP INLET
EX.

50' R/W RICHARDS CHAPEL ROAD
(PB 34, PG 270)

VARIABLE R/W GEORGIA HIGHWAY 212

S89°00'13"E
1395.52'

S87°22'51"W
25.00'

N02°37'09"W
256.94'

PORTABLE SANITATION UNITS

CONCRETE WASHOUT AND FUEL TANK STORAGE AREA

TRASH RECEPTACLES

PHASE 1 LIMITS OF DISTURBANCE
2.8 AC

Ds1	Ds2
Ds3	Du

ALL DISTURBED AREAS

20' WIDE ACCESS TO POND. ACCESS SHALL BE ADJUSTED AS NEEDED TO MINIMIZE DISTURBANCE AND REMOVAL OF TREES.

ZONED: A-R
TMP: 0008 002H
NEWTON COUNT
\RD OF COMMISSIO
DB 2228, PG 487

EDGE OF EXISTING PAVEMENT PER AERIAL IMAGERY

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

ALPHA SITE SET 08-08-2024

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
C-Fs	Compost Filter Sock	CF-S
Cd-HB	Straw-Bale Check Dams	Cd-HB
Cd-S	Stone Check Dams	Cd-S
Ch-1	Channel Stabilization - Category 1 (Vegetated Sod)	Ch-1
Ch-2	Channel Stabilization - Category 2 (Ro-Rap, TRM)	Ro-Rap or TRM Ch-2
Ch-3	Channel Stabilization - Category 3 (Concrete)	Ch-3
Co	Construction Exit	Co
Cr	Construction Road Stabilization	Cr
Dc-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene film)	Dc-A or
Dc-B	Stream Diversion Channel (Geotextile alone)	Dc-B or
Dc-C	Stream Diversion Channel (Class I Ro-Rap and Geotextile)	Dc-C
Di	Diversion	Di
Dn1	Temporary Downdrain Structure	Dn1
Dn2	Permanent Downdrain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Dam	Rd
Re	Retaining Wall	Re
Ri-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Ri-B
Ri-P	Retrofit (Perforated Half-Round Pipe w/ Stone Filter)	Ri-P
Ri-Sg	Retrofit (Silt Control Gate)	Ri-Sg
Sd1-Bf	Sediment Barrier (Type = Brush Barrier)	Sd1-Bf
Sd1-Nb	Sediment Barrier (Type = Non-Sensitive Areas)	Sd1-Nb
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	Sd1-S
Sd1-Cf	Sediment Barrier (Type = Compost Filter Media Sock)	Sd1-Cf
Sd2-B	Inlet Sediment Trap (Baffle Box)	
Sd2-Bg	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	Sd2-Bg
Sd2-I	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	
Sd2-P	Inlet Sediment Trap (Filter Fabric w Supporting Frame)	Sd2-P
Sd2-Gi	Inlet Sediment Trap (Gravel Drop Inlet Protection)	
Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)	
Sd2-S	Inlet Sediment Trap (Sod Inlet Protection)	Sd2-S
Sc1	Temporary Sediment Basin	Sd1
Sc3	Temporary Sediment Trap	Sd1
Sk	Floating Filter Surface Skimmer	Sk
SoB	Seep Berm	SoB
Sr-B	Temporary Stream Crossing (Bridge)	Sr-B
Sr-C	Temporary Stream Crossing (Culvert)	Sr-C
St	Storm Drain Outlet Protection	St
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	
Tc-S	Turbidity Curtain (Staked)	Tc-D
Tp	Topsoiling	Tp
Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt

Indicate type

VEGETATIVE MEASURES

Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Ss	Streambank Stabilization (Using Permanent Vegetation)	Ss
St	Slope Stabilization (Rolled Erosion Control Products (RECPs))	St
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

Indicate type

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
SCALE: 1" = 30'

GA STATE PLANE EAST

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

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CONTRACTOR
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SURVEYOR
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PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	
DRAWN BY:	
CHECKED BY:	

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

INITIAL EROSION SEDIMENTATION & POLLUTION CONTROL PLAN SITE VIEW

Sheet Number

C-6.4

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
Cs-F	Compost Filter Sock	Cs-FS
Cs-H	Straw-Bale Check Dams	Cs-HB
Cs-S	Stone Check Dams	Cs-S
Ch-1	Channel Stabilization - Category 1 (Vegetalid/Sod)	Ch-1
Ch-2	Channel Stabilization - Category 2 (Ro-Rap, TRM)	Ch-2
Ch-3	Channel Stabilization - Category 3 (Concrete)	Ch-3
Cx	Construction Exit	Cx
Cr	Construction Road Stabilization	Cr
Di	Diversion	Di
Dc-A	Stream Diversion Channel (Geotextile, Soil, or Polyethylene film)	Dc-A
Dc-B	Stream Diversion Channel (Geotextile alone)	Dc-B
Dc-C	Stream Diversion Channel (Cobb / Rip-Rap and Geotextile)	Dc-C
Dn1	Temporary Downdrain Structure	Dn1
Dn2	Permanent Downdrain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Dam	Rd
Re	Retaining Wall	Re
Rt-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rt-B
Rt-P	Retrofit (Perforated Half- Round Pipe w/ Stone Filter)	Rt-P
Rt-Sc	Retrofit (Silt Control Gate)	Rt-Sc
St1-BB	Sediment Barrier (Type = Brush Barrier)	St1-BB
St1-HB	Sediment Barrier (Type = Hay Bale)	St1-HB
St1-S	Sediment Barrier (Type = Silt Fence)	St1-S
St1-SF	Sediment Barrier (Type = Super Silt Fence)	St1-SF
St1-SS	Sediment Barrier (Type = Non-Sensitive Areas)	St1-SS
St1-T	Sediment Barrier (Type = Sensitive Areas)	St1-T
St1-WB	Sediment Barrier (Type = Compost Filter Media Sock)	St1-WB
St1-O	Sediment Barrier (Excavated Inlet Sediment Trap)	St1-O
St2-B	Inlet Sediment Trap (Baffle Box)	St2-B
St2-BG	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	St2-BG
St2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	St2-E
St2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	St2-F
St2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	St2-G
St2-P	Inlet Sediment Trap (Curb Inlet Protection)	St2-P
St2-S	Inlet Sediment Trap (Sod Inlet Protection)	St2-S
St3	Temporary Sediment Basin	St3
St4	Temporary Sediment Trap	St4
Sk	Floating Filter Surface Skimmer	Sk
Sp6	Slope Berm	Sp6
Sr-B	Temporary Stream Crossing (Bridge)	Sr-B

STRUCTURAL PRACTICES

Code	Practice	Symbol
St-C	Temporary Stream Crossing (Culvert)	St-C
Sl	Storm Drain Outlet Protection	Sl
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	Tc-F
Tc-S	Turbidity Curtain (Slidoc)	Tc-S
Tp	Tooooling	Tp
Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt

VEGETATIVE MEASURES

Code	Practice	Symbol
Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Cs	Flocculants Coagulants	Fl-Cs
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

Ds1	Ds2
Ds3	Du

ALL DISTURBED AREAS

PHASE 1 LIMITS OF DISTURBANCE
2.8 AC

APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE "A"

ZONE "X"

ZONED: A-1
TMP: 0008 015
VI LAND SALES LLC
DB 4071, PG 138

NPDES MONITORING POINT

HW

IE=689.99

60" CMP

EX OCS
TOP=699.28
IEout=699.13

RH-P

Fr

SILT FENCE

RIPRAP

STORMWATER POND

FES
IE=699.13

18"RCP

6"PVC (a)

12"PVC (b)

6"PVC (c)

EX JB
TOP= 708.23
IEin(a)=702.45
IEin(b)=669.37
IEin(c)=703.13
IE out =699.37

4' CLF

SILT FENCE

RIPRAP

690
692
694
696
698
700

ALPHA SITE SET 08-08-2024

OWNER/DEVELOPER
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GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
SCALE: 1" = 20'

GA STATE PLANE EAST

NOTE: 1019As AND HIGH CAPACITY GRATES IN CURB LINE TO BE HOODED

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

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PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	
DRAWN BY:	
CHECKED BY:	

REVISIONS

DATE:	DESCRIPTION:
7/10/24	1ST SUBMITTAL COMMENTS

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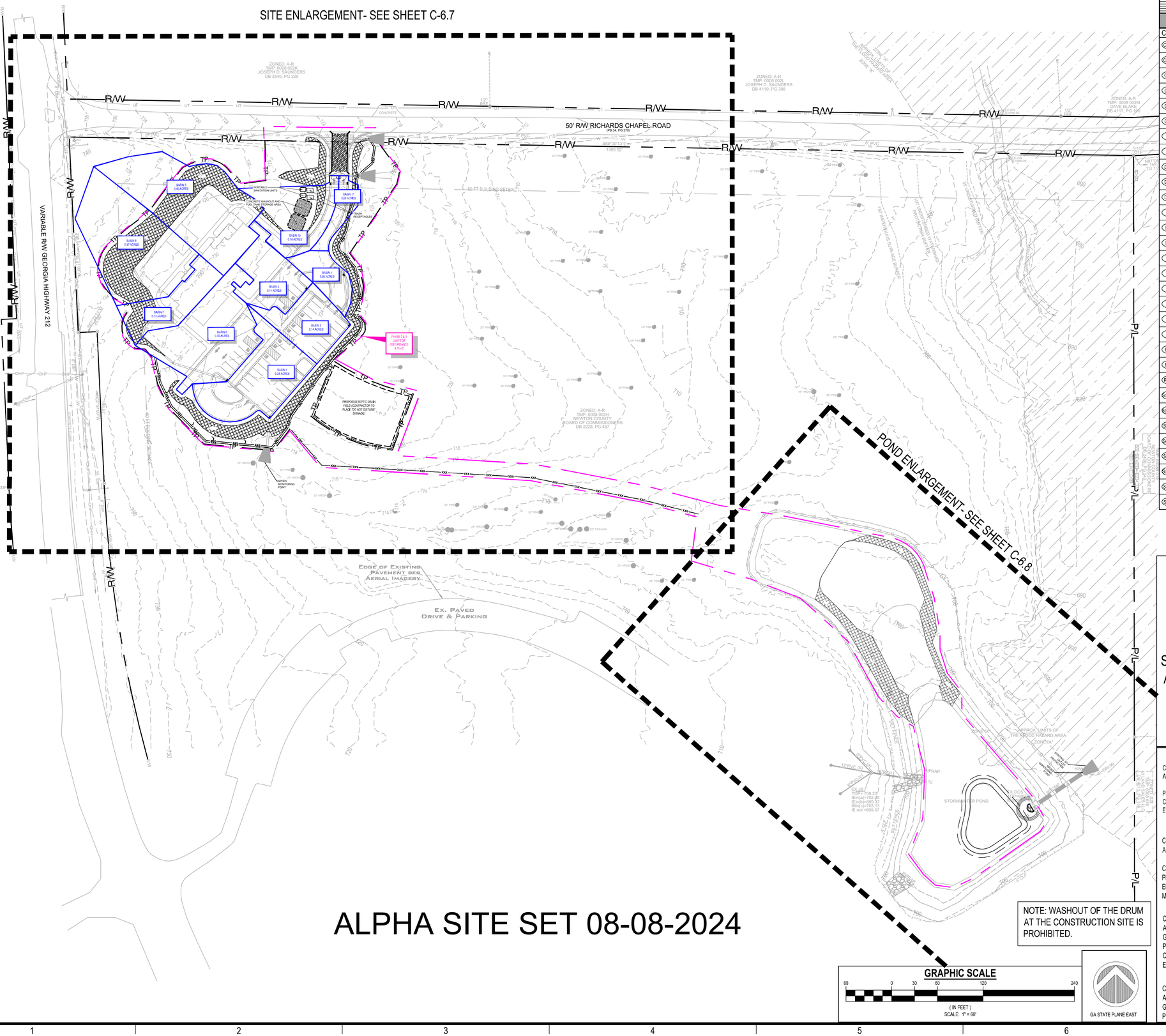
Sheet Title

INITIAL EROSION SEDIMENTATION & POLLUTION CONTROL PLAN POND VIEW

Sheet Number

C-6.5



GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol	Code	Practice	Symbol
Cd-Fs	Compost Filter Sock	Cd-Fs	Sd/I-P	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sd/I-P
Cd-Hb	Straw-Bale Check Dams	Cd-Hb	Sd/I-B	Inlet Sediment Trap (Curb Inlet Protection)	Sd/I-B
Cd-S	Stone Check Dams	Cd-S	Sd/I-S	Inlet Sediment Trap (Sod Inlet Protection)	Sd/I-S
Ch-1	Channel Stabilization - Category 1 (Vegetative/Sod)	Ch-1	Sd3	Temporary Sediment Basin	Sd3
Ch-2	Channel Stabilization - Category 2 (Rip-Rap, TRM)	Ch-2	Sd4	Temporary Sediment Trap	Sd4
Ch-3	Channel Stabilization - Category 3 (Concrete)	Ch-3	Sk	Floating Filter Surface Skimmer	Sk
Cc	Construction Exit	Cc	Sp6	Seep Berm	Sp6
Cr	Construction Road Stabilization	Cr	Sr-B	Temporary Stream Crossing (Bridge)	Sr-B
Dc-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene film)	Dc-A or Dc-B or Dc-C	Sr-C	Temporary Stream Crossing (Culvert)	Sr-C
Dc-B	Stream Diversion Channel (Geotextile alone)		St	Storm Drain Outlet Protection	St
Dc-C	Stream Diversion Channel (Cured Rip-Rap w/o Geotextile)		Su	Surface Roughening	Su
Di	Diversion	Di	Tc-F	Turbidity Curtain (Floating)	Tc-D
Dn1	Temporary Downdrain Structure	Dn1	Tc-S	Turbidity Curtain (Staked)	Tc-D
Dn2	Permanent Downdrain Structure	Dn2	Tp	Topsoiling	Tp
Fr	Filter Ring	Fr	Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt
Gb	Gabion	Gb			
Gr	Grade Stabilization Structure	Gr			
Lv	Level Spreader	Lv			
Rd	Rock Filter Dam	Rd			
Re	Retaining Wall	Re			
Rt-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rt-B			
Rt-P	Retrofit (Perforated Half- Round Pipe w/ Stone Filter)	Rt-P			
Rt-Sg	Retrofit (Silt Control Gate)	Rt-Sg			
Sd1-B/I	Sediment Barrier (Type = Brush Barrier)	Sd1-B/I			
Sd1-N/I	Sediment Barrier (Type = Non-Sensitive Areas)	Sd1-N/I			
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	Sd1-S			
Sd1-C/I	Sediment Barrier (Type = Compost Filter Mesh Sock)	Sd1-C/I			
Sd2-B	Inlet Sediment Trap (Baffle Box)				
Sd2-B/I	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	Sd2/I			
Sd2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)				
Sd2-I	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)				

⊡ Indicate type

VEGETATIVE MEASURES

Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Dst	Disturbed Area Stabilization (w/ Sodding)	Dst
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
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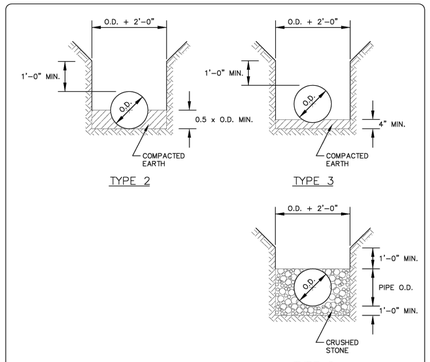
Sheet Title

INTERMEDIATE EROSION SEDIMENTATION & POLLUTION CONTROL OVERVIEW

Sheet Number

C-6.6



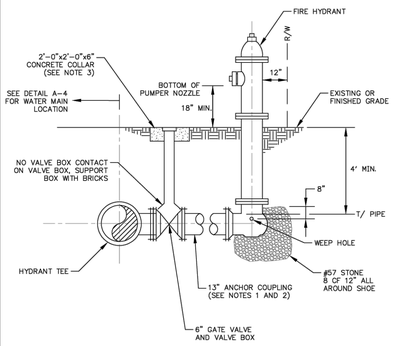
NOTES

1. STONE SHALL BE #57 STONE COARSE AGGREGATE IN ACCORDANCE WITH GDOT SPECIFICATION SECTION 800.
2. PUSH-ON DIP SHALL UTILIZE TYPE 2 BEDDING AT A MINIMUM.
3. RESTRAINED JOINT DIP SHALL UTILIZE TYPE 3 BEDDING AT A MINIMUM.
4. TYPE 6 BEDDING SHALL BE USED IN WET TRENCH CONDITIONS.

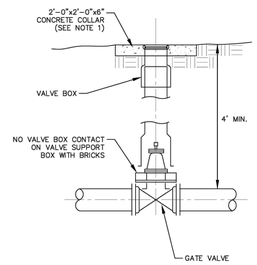
WATER MAIN PIPE BEDDING
NOT TO SCALE
REVISED AUGUST 2021
STANDARD DETAIL NO. A-5

NOTES

1. PROVIDE LONGER ANCHOR COUPLING, WHERE NEEDED, TO PLACE HYDRANT 12" INSIDE RIGHT-OF-WAY.
2. REPLACE ANCHOR COUPLING WITH GRADELOK HYDRANT CONNECTOR WHERE REQUIRED FOR VERTICAL ADJUSTMENT TO EXISTING OR FINAL GRADE.
3. TYPE II CONCRETE IN ACCORDANCE WITH ASTM C 150 FOR ALL UNPAVED AREAS. CENTER WITH #4 REBAR EA. SIDE, EA. WAY.
4. FOR MAIN SIZES 16-INCH AND LARGER, 6-INCH GATE VALVE MAY BE CONNECTED TO MAIN BY TAPPING SADDLE AND ANCHOR COUPLING INSTEAD OF HYDRANT TEE.



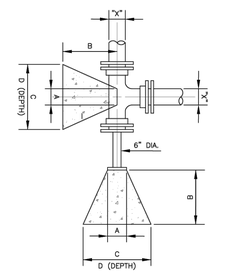
FIRE HYDRANT INSTALLATION ROADS AND HIGHWAYS
NOT TO SCALE
REVISED AUGUST 2021
STANDARD DETAIL NO. A-13



NOTES

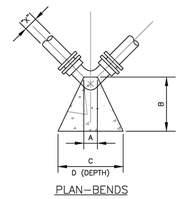
1. TYPE II CONCRETE IN ACCORDANCE WITH ASTM C 150 FOR ALL UNPAVED AREAS. CENTER WITH #4 REBAR EA. SIDE, EA. WAY.
2. WHERE DEPTH TO MAIN REQUIRES, PROVIDE VALVE EXTENSION.

GATE VALVE
NOT TO SCALE
REVISED AUGUST 2021
STANDARD DETAIL NO. A-14



NOTES

1. "X" = DIAMETER OF THE PIPE TO BE BLOCKED.
2. SEE DETAIL A-17 FOR THRUST BLOCK DIMENSIONS.



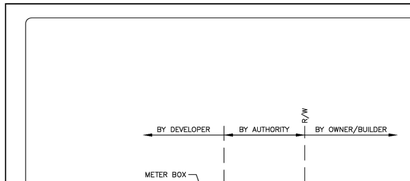
TYPICAL BLOCKING DETAIL
NOT TO SCALE
REVISED AUGUST 2021
STANDARD DETAIL NO. A-16

BLOCKING DIMENSIONS				
"X"	A	B	C	D
TEES AND DEAD ENDS				
16"	1'-3"	3'-6"	7'-6"	4'-9"
12"	1'-0"	3'-0"	5'-6"	3'-6"
10"	1'-0"	2'-6"	4'-9"	3'-0"
8"	0'-10"	2'-0"	4'-0"	2'-6"
6"	0'-8"	1'-6"	2'-9"	1'-9"
90° BENDS				
16"	1'-3"	5'-6"	9'-0"	5'-6"
12"	1'-0"	4'-0"	6'-9"	4'-3"
10"	1'-0"	3'-0"	5'-9"	3'-6"
8"	0'-10"	2'-6"	4'-9"	3'-0"
6"	0'-8"	1'-6"	3'-6"	2'-9"
45° BENDS				
16"	1'-3"	3'-6"	6'-9"	4'-3"
12"	1'-0"	2'-3"	5'-3"	3'-3"
10"	1'-0"	2'-3"	4'-6"	2'-9"
8"	0'-10"	1'-6"	3'-6"	2'-3"
6"	0'-8"	1'-3"	2'-6"	1'-6"
22 1/2° BENDS				
16"	1'-3"	1'-6"	4'-9"	3'-0"
12"	1'-0"	1'-6"	3'-6"	2'-3"
10"	1'-0"	1'-3"	3'-0"	2'-0"
8"	0'-10"	1'-0"	2'-6"	1'-6"
6"	0'-8"	1'-0"	1'-9"	1'-3"
11 1/4° BENDS				
16"	1'-3"	1'-6"	3'-3"	2'-0"
12"	1'-0"	1'-6"	2'-6"	1'-6"
10"	1'-0"	1'-0"	2'-3"	1'-3"
8"	0'-10"	1'-0"	1'-9"	1'-0"
6"	0'-8"	1'-0"	1'-6"	0'-4"

NOTES

1. THRUST BLOCK DIMENSIONS ARE BASED ON THE FOLLOWING CONDITIONS:
   LINE PRESSURE = 250 PSI
   SOIL BEARING CAPACITY = 2,000 PSF
   CONTRACTOR SHALL PROVIDE CALCULATIONS FOR THRUST BLOCK SIZING WHEN CONDITIONS EITHER EXCEED THE MAXIMUM PRESSURE OR SOIL CAPACITY IS BELOW THE MINIMUM BEARING CAPACITY.
2. MECHANICAL JOINT FITTINGS 4" ID AND LESS SHALL BE RESTRAINED WITH RETAINER GLANDS.

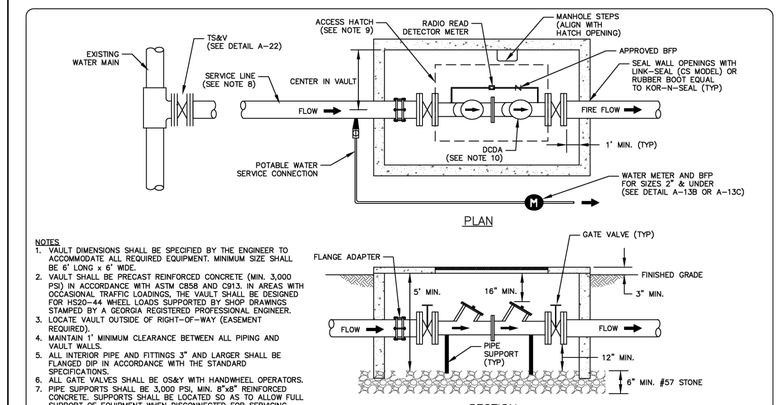
TYPICAL BLOCKING SIZES
NOT TO SCALE
REVISED AUGUST 2021
STANDARD DETAIL NO. A-17



NOTES

1. SEE STANDARD DETAIL A-21 FOR SERVICE LINE CONNECTION DETAILS.
2. METER BOX TO BE FURNISHED AND INSTALLED BY DEVELOPER.
3. WATER METER TO BE FURNISHED AND INSTALLED BY THE AUTHORITY.
4. OWNER OR DEVELOPER SHALL FURNISH AND INSTALL ALL MATERIALS PAST THE AUTHORITY-FURNISHED STUB-OUT.

RESIDENTIAL WATER METER AND BOX
NOT TO SCALE
REVISED AUGUST 2021
STANDARD DETAIL NO. A-22



NOTES

1. VAULT DIMENSIONS SHALL BE SPECIFIED BY THE ENGINEER TO ACCOMMODATE ALL REQUIRED EQUIPMENT. MINIMUM SIZE SHALL BE 6' LONG x 6' WIDE.
2. VAULT SHALL BE PRECAST REINFORCED CONCRETE (MIN. 3,000 PSI) IN ACCORDANCE WITH ASTM C858 AND C913. IN AREAS WITH OCCASIONAL TRAFFIC LOADINGS, THE VAULT SHALL BE DESIGNED FOR HS20-44 WHEEL LOADS SUPPORTED BY SHOP DRAWINGS STAMPED BY A GEORGIA REGISTERED PROFESSIONAL ENGINEER.
3. LOCATE VAULT OUTSIDE OF RIGHT-OF-WAY (EASEMENT REQUIRED).
4. MAINTAIN 1' MINIMUM CLEARANCE BETWEEN ALL PIPING AND VAULT WALLS.
5. ALL INTERIOR PIPE AND FITTINGS 3" AND LARGER SHALL BE FLANGED DIP IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
6. ALL GATE VALVES SHALL BE OS&Y WITH HANDWHEEL OPERATORS.
7. PIPE SUPPORTS SHALL BE 3,000 PSI, MIN. 8"x8" REINFORCED CONCRETE. SUPPORTS SHALL BE LOCATED SO AS TO ALLOW FULL SUPPORT OF EQUIPMENT WHEN DISCONNECTED FOR SERVICING, REPLACEMENT, ETC. A MINIMUM OF ONE SUPPORT SHALL BE SUPPLIED FOR EACH CHECK VALVE ASSEMBLY.
8. RESTRAIN MJ PIPE WITH MEGA-LUGS OR PUSH-ON JOINT PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
9. ACCESS HATCH OPENING SHALL BE GREATER THAN LONGEST EQUIPMENT PIECE AND NO LESS THAN 36"x36". CAST HATCH IN TOP SLAB CENTERED OVER THE WATER METER. HATCH SHALL BE BILCO TYPE J-AL.
10. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) SHALL BE WATTS MODEL 709DCDA, FEBCO MODEL 856, OR AMES MODEL 3000SS.
11. BACKFLOW PREVENTERS SHALL BE TESTABLE PER AWWA STANDARDS.
12. PRESSURE TEST AND DISINFECT IN ACCORDANCE WITH AWWA.
13. THIS DETAIL IS FOR USE ON SERVICES WITH DEDICATED FIRE SPRINKLER LINES. SEE DETAILS A-27 AND A-28 FOR INSTALLATIONS WHERE THERE ARE FIRE HYDRANTS ON PRIVATE PROPERTY.

FIRE LINE SERVICE CONNECTION AND POTABLE WATER METER 2" AND UNDER
NOT TO SCALE
REVISED AUGUST 2021
STANDARD DETAIL NO. A-28

ALPHA SITE SET 08-08-2024

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Professional Seal

GEORGIA REGISTERED NO. PE024899 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

SITE DETAILS

Sheet Number

C-8.1

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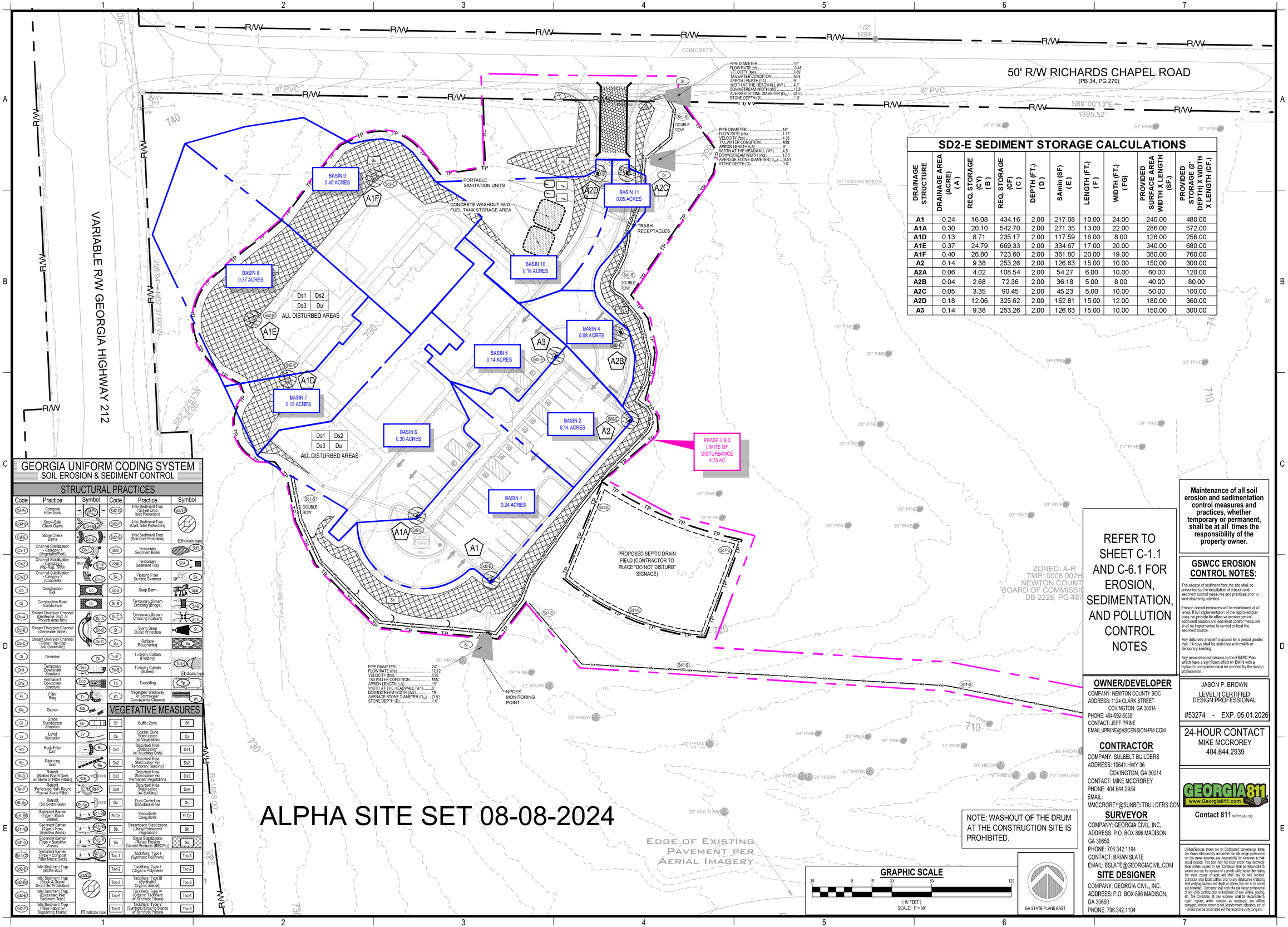
Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility location firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.



SD2-E SEDIMENT STORAGE CALCULATIONS

DRAINAGE STRUCTURE	DRAINAGE AREA (ACRE) (A)	REQ. STORAGE (CY) (B)	REQ. STORAGE (CF) (C)	DEPTH (FT.) (D)	SAmin (SF) (E)	LENGTH (FT.) (F)	WIDTH (FT.) (FG)	PROVIDED SURFACE AREA WIDTH X LENGTH (SF.)	PROVIDED STORAGE (2' DEPTH) X WIDTH X LENGTH (CF.)
A1	0.24	16.08	434.16	2.00	217.08	10.00	24.00	240.00	480.00
A1A	0.30	20.10	542.70	2.00	271.35	13.00	22.00	286.00	572.00
A1D	0.13	8.71	235.17	2.00	117.59	16.00	8.00	128.00	256.00
A1E	0.37	24.79	669.33	2.00	334.67	17.00	20.00	340.00	680.00
A1F	0.40	26.80	723.60	2.00	361.80	20.00	19.00	380.00	760.00
A2	0.14	9.38	253.26	2.00	126.63	15.00	10.00	150.00	300.00
A2A	0.06	4.02	108.54	2.00	54.27	6.00	10.00	60.00	120.00
A2B	0.04	2.68	72.36	2.00	36.18	5.00	8.00	40.00	80.00
A2C	0.05	3.35	90.45	2.00	45.23	5.00	10.00	50.00	100.00
A2D	0.18	12.06	325.62	2.00	162.81	15.00	12.00	180.00	360.00
A3	0.14	9.38	253.26	2.00	126.63	15.00	10.00	150.00	300.00

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
C-Sf	Compost Filter Sock	C-Sf
C-Hb	Straw-Bale Check Dams	C-Hb
C-Ks	Stone Check Dams	C-Ks
Ch-1	Channel Stabilization Category 1 (Vegetative/Sod)	Ch-1
Ch-2	Channel Stabilization Category 2 (Rip-Rap, TRM)	Rip-Rap or TRM, Ch-2
Ch-3	Channel Stabilization Category 3 (Concrete)	Ch-3
Co	Construction Exit	Co
Cr	Construction Road Stabilization	Cr
Dc-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene film)	Dc-A or
Dc-B	Stream Diversion Channel (Geotextile alone)	Dc-B or
Dc-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	Dc-C
Di	Diversion	Di
Dn1	Temporary Downchain Structure	Dn1
Dn2	Permanent Downchain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Dam	Rd
Re	Retaining Wall	Re
Rt-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rt-B
Rt-P	Retrofit (Perforated Half- Round Pipe w/ Stone Filter)	Rt-P
Rt-Sc	Retrofit (Silt Control Gate)	Rt-Sc
Sd1-Bf	Sediment Barrier (Type = Brush Barrier)	Sd1-Bf
Sd1-Nf	Sediment Barrier (Type = Non-Sensitive Areas)	Sd1-Nf
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	Sd1-S
Sd1-C	Sediment Barrier (Type = Compost Filter Mesh Sock)	Sd1-C
Sd2-B	Inlet Sediment Trap (Baffle Box)	Sd2-B
Sd2-Bd	Inlet Sediment Trap (Brick & Gravel Drop Inlet Protection)	Sd2-B
Sd2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	Sd2-E
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	Sd2-F

Code	Practice	Symbol
Sd2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sd2-G
Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)	Sd2-P
Sd2-S	Inlet Sediment Trap (Sod Inlet Protection)	Sd2-S
Sd3	Temporary Sediment Basin	Sd3
Sd4	Temporary Sediment Trap	Sd4
Sf	Floating Filter Surface Skimmer	Sf
Sp-B	Seep Berm	Sp-B
Sr-B	Temporary Stream Crossing (Bridge)	Sr-B
Sr-C	Temporary Stream Crossing (Culvert)	Sr-C
St	Storm Drain Outlet Protection	St
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	Tc-F
Tc-S	Turbidity Curtain (Staked)	Tc-S
Tp	Tiossoiling	Tp
Wr	Vegetated Waterway or Stormwater Conveyance Channel	Wr

VEGETATIVE MEASURES

Code	Practice	Symbol
Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

Indicate type

ALPHA SITE SET 08-08-2024

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
SCALE: 1" = 30'

GA STATE PLANE EAST

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

GSWCC EROSION CONTROL NOTES:

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.

Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

Any amendments/revisions to the ESⅈPC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.

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COVINGTON, GA 30014
PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL:JPRINE@ACSENSION-PM.COM

CONTRACTOR
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CONTACT: MIKE MCCROREY
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JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
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COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	
DRAWN BY:	
CHECKED BY:	

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

INTERMEDIATE EROSION SEDIMENTATION & POLLUTION CONTROL SITE VIEW

Sheet Number

C-6.7

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
Co-F	Compost Filter Sock	Co-F
Co-HB	Straw-Bale Check Dams	Co-HB
Co-S	Stone Check Dams	Co-S
Ch-1	Channel Stabilization - Category 1 (Vegetation/Sod)	Ch-1
Ch-2	Channel Stabilization - Category 2 (Rip-Rap, TRM)	Ch-2
Ch-3	Channel Stabilization - Category 3 (Concrete)	Ch-3
Cx	Construction Exit	Cx
Cr	Construction Road Stabilization	Cr
Di	Diversion	Di
Dc-A	Stream Diversion Channel (Geotextile, Soil, or Polyethylene film)	Dc-A
Dc-B	Stream Diversion Channel (Geotextile alone)	Dc-B
Dc-C	Stream Diversion Channel (Cross | Rip-Rap and Geotextile)	Dc-C
Dn1	Temporary Downdrain Structure	Dn1
Dn2	Permanent Downdrain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Berm	Rd
Re	Retaining Wall	Re
Rt-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rt-B
Rt-P	Retrofit (Perforated Half- Round Pipe w/ Stone Filter)	Rt-P
Rt-Sc	Retrofit (Silt Control Gate)	Rt-Sc
Rt-BB	Sediment Barrier (Type = Brush Barrier)	Rt-BB
Sd1-NS	Sediment Barrier (Type = Non-Sensitive Areas)	Sd1-NS
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	Sd1-S
Sd1-C	Sediment Barrier (Type = Compost Filter Media Sock)	Sd1-C
Sd2-B	Inlet Sediment Trap (Baffle Box)	Sd2-B
Sd2-BG	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	Sd2-BG
Sd2-C	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	Sd2-C
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	Sd2-F
Sd2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sd2-G
Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)	Sd2-P
Sd2-S	Inlet Sediment Trap (Sod Inlet Protection)	Sd2-S
Sd3	Temporary Sediment Basin	Sd3
Sd4	Temporary Sediment Trap	Sd4
Sk	Floating Filter Surface Skimmer	Sk
Sp6	Slope Berm	Sp6
Sp8	Temporary Stream Crossing (Bridge)	Sp8

STRUCTURAL PRACTICES

Code	Practice	Symbol
Sl-C	Temporary Stream Crossing (Culvert)	Sl-C
Sl	Storm Drain Outlet Protection	Sl
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	Tc-F
Tc-S	Turbidity Curtain (Slotted)	Tc-S
Tp	Tarping	Tp
Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt

VEGETATIVE MEASURES

Code	Practice	Symbol
Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Cs	Flocculants Coagulants	Fl-Cs
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

PHASE 2 & 3 LIMITS OF DISTURBANCE 4.70 AC

Ds1	Ds2
Ds3	Du

ALL DISTURBED AREAS

SEDIMENT STORAGE CALCULATIONS
1) REQUIRED STORMWATER STORAGE = XXX CY (AS DETERMINED BY LOCAL ORDINANCE)
2) REQUIRED SEDIMENT STORAGE = XXX CY (67 CY/AC x XXX AC DISTURBED AREA)
3) "TOTAL REQUIRED STORAGE = XXX + XXX = XXX CY
4) AVAILABLE STORAGE = XXXX CY
5) IS THE AVAILABLE STORAGE (4) GREATER THAN THE REQUIRED STORAGE (3)?
X YES ___ NO
6) IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
___ RAISE THE INVERT OF THE OUTLET STRUCTURE ____ INCHES.
___ UNDERCUT THE POND ____ FEET.
___ OTHER
7) CLEAN-OUT ELEVATION = XXX.X FT. (ELEVATION CORRESPONDING TO 22 CY/YD x XXX DISTURBED AREA)
8) IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?
X YES ___ NO
9) IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
___ BAFFLES (TYPE OF BAFFLE_____)
___ OTHER

ZONED: A-R
TNP: 0008 016
VI LAND SALES LLC
DB 4071, PG 138

APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE "A"

ZONE "X"

EXISTING ST OUTLET PROTECTION

NPDES MONITORING POINT

HW IE=689.99

60"CMP

EX.OCS
TOP=699.18
IE(w)=694.47

CONTRACTOR SHALL NOT UNDERCUT MICROPOOL UNTIL SITE IS STABILIZED AND SEDIMENT HAS BEEN REMOVED FROM POND

STORMWATER POND

SILT FENCE

RIPRAP

FES
IE=698.13

18"RCP

6"PVC (a)

12"PVC (b)

6"PVC (c)

EX.JB
TOP= 708.23
IEin(a)=702.45
IEin(b)=699.37
IEin(c)=703.13
IE out =699.37

4' CLF

SILT FENCE

4' CLF

RIPRAP

ALPHA SITE SET 08-08-2024

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
ADDRESS: 1124 CLARK STREET
COVINGTON, GA 30014
PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL:JPRINE@ASCENSION-PM.COM

CONTRACTOR
COMPANY: SULBELT BUILDERS
ADDRESS: 10641 HWY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY
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EMAIL:
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PHONE: 706.342.1104
CONTACT: BRIAN SLATE
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SITE DESIGNER
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JASON P. BROWN
LEVEL II CERTIFIED
DESIGN PROFESSIONAL
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REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

GSWCC EROSION CONTROL NOTES:

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.

Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

Any amendments/revisions to the ESⅈPC Plan which have a significant effect on SMPs with a hydraulic component must be certified by the design professional.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
SCALE: 1" = 20'

GA STATE PLANE EAST

NOTE: 1019As AND HIGH CAPACITY GRATES IN CURB LINE TO BE HOODED

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

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Professional Seal

GEORGIA REGISTERED NO. PE019869 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	
DRAWN BY:	
CHECKED BY:	

REVISIONS

DATE:	DESCRIPTION:
7/1/24	1ST SUBMITTAL COMMENTS

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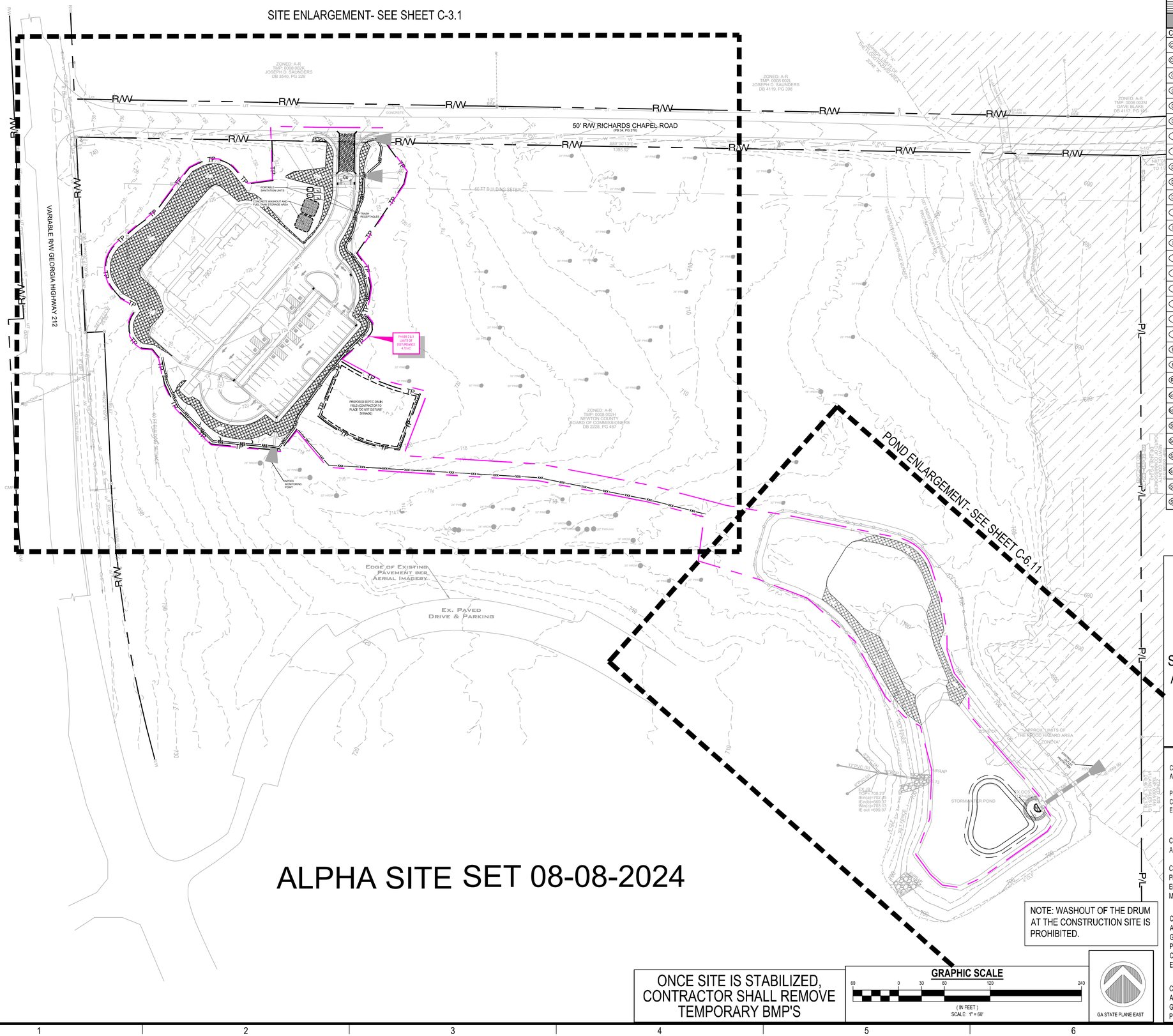
Sheet Title

INTERMEDIATE EROSION SEDIMENTATION & POLLUTION CONTROL POND VIEW

Sheet Number

C-6.8



NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

ONCE SITE IS STABILIZED, CONTRACTOR SHALL REMOVE TEMPORARY BMP'S

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
SCALE: 1" = 60'

GA STATE PLANE EAST

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Code	Practice
Cd-Fs	Compost Filter Sock	Sd/I-P	Inlet Sediment Trap (Gravel Drop Inlet Protection)
Cd-Hb	Straw-Bale Check Dams	Sd/I-B	Inlet Sediment Trap (Curb Inlet Protection)
Cd-S	Stone Check Dams	Sd/I-S	Inlet Sediment Trap (Sod Inlet Protection)
Ch-1	Channel Stabilization - Category 1 (Vegetative/Sod)	Sd1	Temporary Sediment Basin
Ch-2	Channel Stabilization - Category 2 (Rip-Rap, TRM)	Sd4	Temporary Sediment Trap
Ch-3	Channel Stabilization - Category 3 (Concrete)	Sk	Floating Filter Surface Skimmer
Cc	Construction Exit	Sp6	Seep Berm
Cr	Construction Road Stabilization	Sr-B	Temporary Stream Crossing (Bridge)
Dc-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene film)	Sr-C	Temporary Stream Crossing (Culvert)
Dc-B	Stream Diversion Channel (Geotextile alone)	St	Storm Drain Outlet Protection
Dc-C	Stream Diversion Channel (Class I Rip-Rap w/o Geotextile)	Su	Surface Roughening
Di	Diversion	Tc-F	Turbidity Curtain (Floating)
Dn1	Temporary Downdrain Structure	Tc-S	Turbidity Curtain (Staked)
Dn2	Permanent Downdrain Structure	Tp	Tarping
Fr	Filter Ring	Wt	Vegetated Waterway or Stormwater Conveyance Channel
Gb	Gabion		
Gr	Grade Stabilization Structure		
Lv	Level Spreader		
Rd	Rock Filter Dam		
Re	Retaining Wall		
Rt-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)		
Rt-P	Retrofit (Perforated Half- Round Pipe w/ Stone Filter)		
Rt-Sc	Retrofit (Silt Control Gate)		
Sd1-BB	Sediment Barrier (Type = Brush Barrier)		
Sd1-NB	Sediment Barrier (Type = Non-Sensitive Areas)		
Sd1-S	Sediment Barrier (Type = Sensitive Areas)		
Sd1-C	Sediment Barrier (Type = Compost Filter Mecia Sock)		
Sd2-B	Inlet Sediment Trap (Baffle Box)		
Sd2-Bg	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)		
Sd2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)		
Sd2-I	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)		

VEGETATIVE MEASURES

Bf	Buffer Zone
Cs	Coastal Dune Stabilization (w/ Vegetation)
Ds1	Disturbed Area Stabilization (w/ Mulching Only)
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)
Ds4	Disturbed Area Stabilization (w/ Sodding)
Du	Dust Control on Disturbed Areas
Fl-Co	Flocculants Coagulants
Sb	Streambank Stabilization (Using Permanent Vegetation)
Ss	Slope Stabilization (Rolled Erosion Consrol Products (RECPs))
Tac-1	Tackifiers: Type I (Synthetic Polymers)
Tac-2	Tackifiers: Type II (Organic Polymers)
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

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Professional Seal

GEORGIA REGISTERED NO. PE019886 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	
DRAWN BY:	
CHECKED BY:	

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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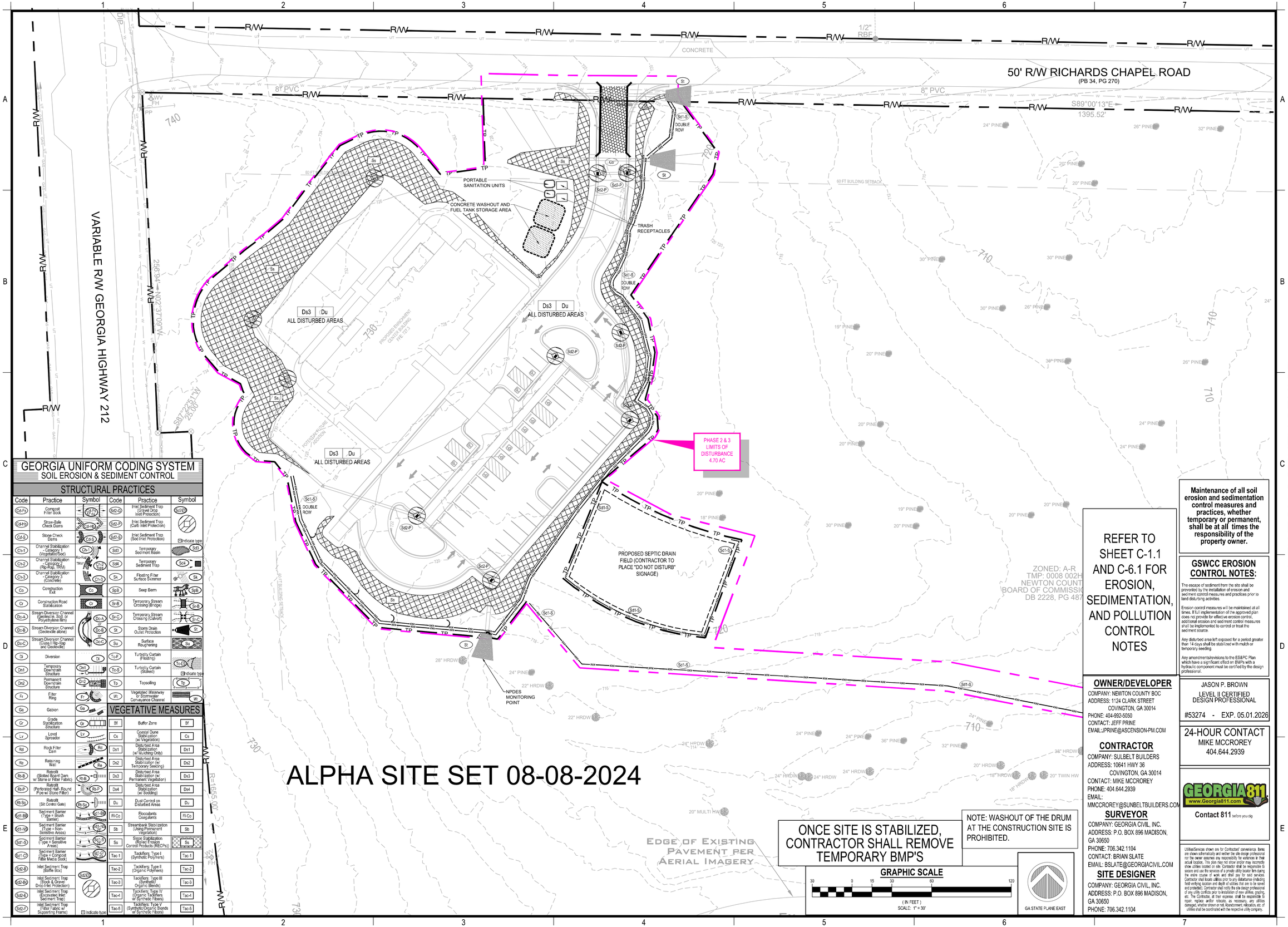
Sheet Title

FINAL EROSION SEDIMENTATION & POLLUTION CONTROL PLAN OVERVIEW

Sheet Number

C-6.9



GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Code	Practice
C-S-Fs	Compost Filter Sock	Sd2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)
C-I-Hb	Straw-Bale Check Dams	Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)
C-I-S	Stone Check Dams	Sd1-S	Inlet Sediment Trap (Sod Inlet Protection)
Ch-1	Channel Stabilization - Category 1 (Vegetation/Sod)	Sd1	Temporary Sediment Basin
Ch-2	Channel Stabilization - Category 2 (Rip-Rap, TRM)	Sd4	Temporary Sediment Trap
Ch-3	Channel Stabilization - Category 3 (Concrete)	Sk	Floating Filter Surface Skimmer
Co	Construction Exit	SpB	Seep Berm
Cr	Construction Road Stabilization	Sr-B	Temporary Stream Crossing (Bridge)
Dc-A	Stream Diversion Channel (Geotextile, Sod or Polyethylene film)	Sr-C	Temporary Stream Crossing (Culvert)
Dc-B	Stream Diversion Channel (Geotextile alone)	St	Storm Drain Outlet Protection
Dc-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	Su	Surface Roughening
Di	Diversion	To-F	Turbidity Curtain (Floating)
Dn1	Temporary Downdrain Structure	To-S	Turbidity Curtain (Staked)
Dn2	Permanent Downdrain Structure	Tp	Trossolling
Fr	Filter Ring	Wr	Vegetated Waterway for Stormwater Conveyance Channel
Ga	Gabion		
Gr	Grade Stabilization Structure		
Lv	Level Spreader		
Rd	Rock Filter Dam		
Re	Retaining Wall		
Ri-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)		
Ri-P	Retrofit (Perforated Hat- Round Pipe w/ Stone Filter)		
Ri-Sg	Retrofit (Silt Control Gate)		
Sf1-Bf	Sediment Barrier (Type = Brush Barrier)		
Sf1-Ns	Sediment Barrier (Type = Non-Sensitive Areas)		
Sf1-S	Sediment Barrier (Type = Sensitive Areas)		
Sf1-Tf	Sediment Barrier (Type = Compost Filter Media Sock)		
Sd2-B	Inlet Sediment Trap (Baffle Box)		
Sd2-G	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)		
Sd2-E	Inlet Sediment Trap (Excavated Inlet Sediment Trap)		
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)		

VEGETATIVE MEASURES

Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers, Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers, Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers, Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers, Type IV (Organic Tackifiers w/ Syntheic Fibers)	Tac-4
Tac-5	Tackifiers, Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

Indicate type

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

ONCE SITE IS STABILIZED, CONTRACTOR SHALL REMOVE TEMPORARY BMP'S

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

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CONTACT: JEFF PRINE
EMAIL:JPRINE@ASCENSION-PM.COM

CONTRACTOR
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GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
SCALE: 1" = 30'

GA STATE PLANE EAST

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Professional Seal

GEORGIA REGISTERED NO. PE019855 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER

6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	
DRAWN BY:	
CHECKED BY:	

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

FINAL EROSION SEDIMENTATION & POLLUTION CONTROL PLAN SITE VIEW

Sheet Number

C-6.10

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
Co-F	Compost Filter Sock	Co-F
Co-HB	Straw-Bale Check Dams	Co-HB
Co-S	Stone Check Dams	Co-S
Ch-1	Channel Stabilization - Category 1 (Vegetation/Sod)	Ch-1
Ch-2	Channel Stabilization - Category 2 (Rip-Rap, TRM)	Ch-2
Ch-3	Channel Stabilization - Category 3 (Concrete)	Ch-3
Cx	Construction Exit	Cx
Cr	Construction Road Stabilization	Cr
Di	Diversion	Di
Dc-A	Stream Diversion Channel (Geotextile, Soil, or Polyethylene Film)	Dc-A
Dc-B	Stream Diversion Channel (Geotextile alone)	Dc-B
Dc-C	Stream Diversion Channel (Cobb / Rip-Rap and Geotextile)	Dc-C
Dn1	Temporary Downdrain Structure	Dn1
Dn2	Permanent Downdrain Structure	Dn2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Berm	Rd
Re	Retaining Wall	Re
Rt-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rt-B
Rt-P	Retrofit (Perforated Half- Round Pipe w/ Stone Filter)	Rt-P
Rt-Sc	Retrofit (Silt Control Gate)	Rt-Sc
Sf1-BB	Sediment Barrier (Type = Straw Barrier)	Sf1-BB
Sf1-SS	Sediment Barrier (Type = Non-Sensitive Areas)	Sf1-SS
Sf1-S	Sediment Barrier (Type = Sensitive Areas)	Sf1-S
Sf1-CF	Sediment Barrier (Type = Compost Filter Media Sock)	Sf1-CF
Sd2-B	Inlet Sediment Trap (Baffle Box)	Sd2-B
Sd2-DI	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	Sd2-DI
Sd2-I	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	Sd2-I
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	Sd2-F
Sd2-G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sd2-G
Sd2-P	Inlet Sediment Trap (Curb Inlet Protection)	Sd2-P
Sd2-S	Inlet Sediment Trap (Sod Inlet Protection)	Sd2-S
Sd3	Temporary Sediment Basin	Sd3
Sd4	Temporary Sediment Trap	Sd4
Sk	Floating Filter Surface Skimmer	Sk
Sp6	Slope Berm	Sp6
Sr-B	Temporary Stream Crossing (Bridge)	Sr-B

STRUCTURAL PRACTICES

Code	Practice	Symbol
Sr-C	Temporary Stream Crossing (Culvert)	Sr-C
St	Storm Drain Outlet Protection	St
Su	Surface Roughening	Su
Tc-F	Turbidity Curtain (Floating)	Tc-F
Tc-S	Turbidity Curtain (Slotted)	Tc-S
Tp	Topsoiling	Tp
Wt	Vegetated Waterway or Stormwater Conveyance Channel	Wt

VEGETATIVE MEASURES

Code	Practice	Symbol
Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	Ds4
Du	Dust Control on Disturbed Areas	Du
Fl-Cs	Flocculants Coagulants	Fl-Cs
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

PHASE 2 & 3 LIMITS OF DISTURBANCE 4.70 AC

Ds3 | Du
ALL DISTURBED AREAS

ZONE "X"

APPROX. LIMITS OF THE FLOOD HAZARD AREA ZONE "A"

ZONED: A-R
TMP: 0008 016
VI LAND SALES LLC
DB 4071, PG 138

EXISTING ST OUTLET PROTECTION

NPDES MONITORING POINT

HW IE=689.99

60"CMP

EX OCS
TOP=699.43
IE DN=690.43

STORMWATER POND

CONTRACTOR SHALL NOT UNDERCUT MICROPOOL UNTIL SITE IS STABILIZED AND SEDIMENT HAS BEEN REMOVED FROM POND

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18"RCP

6"PVC (a)

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GEORGIA811 www.Georgia811.com
Contact 811 before you dig

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

GSWCC EROSION CONTROL NOTES:

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.

Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

Any 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.

ONCE SITE IS STABILIZED, CONTRACTOR SHALL REMOVE TEMPORARY BMP'S

NOTE: 1019As AND HIGH CAPACITY GRATES IN CURB LINE TO BE HOODED

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
SCALE: 1" = 20'

GA STATE PLANE EAST

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Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	
DRAWN BY:	
CHECKED BY:	

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

FINAL EROSION SEDIMENTATION & POLLUTION CONTROL PLAN POND VIEW

Sheet Number

C-6.11

Ds1

GSWCC 2016 Edition

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to 6 months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than 6 months.

If any area will remain undisturbed for greater than 6 months, permanent vegetative techniques shall be employed. Refer to Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding)

SPECIFICATIONS (Mulching Without Seeding)

This standard applies to graded or cleared areas where seedlings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compacted soil to a minimum depth of 3".

Mulching Materials (select one of the following materials and apply at the depth indicated):

1. Dry straw or hay shall be applied at a depth of 7" to 4" providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2" to 3". Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch (straw mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.)

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20" or more in diameter and 8" to 12" apart. The edges of the disks should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

   Straw or hay mulch sprayed with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substituted for emulsified asphalt. Please refer to specification Tac - Tackifiers. Plastic mesh or netting with mesh no larger than 1" by 1" shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor branched at the top as well as incrementally as necessary.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) - (Ds1)

N.T.S.

Ds2

GSWCC 2016 Edition

Table 6-4.1 - Temporary Cover or Companion Cover Crops

PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS [1]

SPECIES	BROADCAST RATES	RESOURCE AREA [2]	PLANTING DATES BY RESOURCE AREA (SOLID lines indicate optimum dates, DOTTED lines indicate permissible, but marginal dates)	REMARKS
BARLEY *Hordeum vulgare*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	3 lbs. (144 lbs)	3.3 lbs	M - L P C	14,000 seed per pound. Winter hardy. Use on productive soils.
in mixture	½ lbs. (24 lbs)	0.6 lb		
LESPEDEZA, ANNUAL *Lespedeza sisaia*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	40 lbs	0.9 lb	M - L P C	200,000 seed per pound. May volunteer for several years. Use inoculant if...
in mixture	10 lbs	0.2 lb		
LOVEGRASS, WEEPING *Eragrostis curvula*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	4 lbs	0.1 lb	M - L P C	1,500,000 seed per pound. May last for several years. Mix with Sericea lespedeza.
in mixture	2 lbs	0.05 lb		
MILLET, BROWNTOP *Panicum fasciculatum*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	40 lbs	0.9 lb	M - L P C	137,000 seed per pound. Quick dense cover. Will provide excessive competition in mixtures if seeded at high rate.
in mixture	10 lbs	0.2 lb		
MILLET, PEARL *Pennisetum glaucum*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	50 lbs	1.1 lbs	M - L P C	68,000 seed per pound. Quick dense cover. May reach 8' in height. Not recommended for mixtures.
OATS *Avena sativa*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	4 lbs (128 lbs)	2.9 lbs	M - L P C	13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
in mixture	1 lbs. (32 lbs)	0.7 lb		
RYE *Secale cereale*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	3 lbs. (168 lbs)	3.9 lbs	M - L P C	18,000 seed per pound. Quick cover. Drought tolerant and winter hardy.
in mixture	½ lbs. (28 lbs)	0.6 lb		
RYEGRASS, ANNUAL *Lolium temulentum*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	40 lbs	0.9 lb	M - L P C	227,000 seed per pound. Dense cover. Very competitive and is not to be used in mixtures.
SUDANGRASS *Sorghum sudanense*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	60 lbs	1.4 lbs	M - L P C	55,000 seed per pound. Good on droughty sites. Not recommended for mixtures.
TRITICALE *X-Triticosecale*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	3 lbs. (144 lbs)	3.3 lbs	C	Use on lower part of the Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
in mixture	½ lbs. (24 lbs)	0.6 lb		
WHEAT *Triticum aestivum*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	3 lbs. (180 lbs)	4.1 lbs	M - L P C	15,000 seed per pound. Winter hardy.
in mixture	½ lbs. (30 lbs)	0.7 lb		

[1] Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily

[2] Reduce seeding rates by 50% when drilled.

[3] M-L represents the Mountain, Blue Ridge, and Ridges and Valleys MLRA*; P represents the Southern Piedmont MLRA* C represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRA*

* Refer to Georgia Major Land Resource Areas Map

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than 6 months. If an area is expected to be undisturbed for longer than 6 months, permanent perennials vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to 6 months, but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification Ds1-Disturbed Area Stabilization (With Temporary Seeding).

CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are used to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass).

Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water runoff shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others. Re-shaping or grading is required if slopes can be stabilized by hand-secured vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

Where hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, tracked or otherwise scarified to 2" to 5" deep where practical.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for 6" depth. Quick-acting lime should be incorporated to mostly pH during the germination period. Soil amendments should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before seed preparation and incorporated with a disk, ripper, or shredder. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, than topped with the remaining required application rate.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed no more than ½" deep. Broadcast seed in twice the normal rate. Cover seed lightly by raking or by using a cultipacker seeder or other suitable equipment. Hydraulic seeding is the application of seed and fertilizer with water as a carrier. Refer to Table 6-4.2 for seeding rates. Hydraulic seeding may be used on all soils suitable for mechanical seeding. Hydraulic seeding is not appropriate on very steep slopes where rainfall will wash seed off before germination. Hydraulic seeding is also inappropriate on soils that are too wet or too dry.

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed.

Subsequent Applications

Subsequent applications should be made when needed.

Plant Selection

Table 6-4.1, 6-5.2, 6-5.3 and 6-8.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the NRCS 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 need 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 Sericea Lespedeza and Serecea Lespedeza, are slow to become established and should be planted with companion crops. Companion crops are annuals or perennials that provide quick cover to protect the soil while the slower perennials are becoming established. Companion crops should not be confused with temporary cover crops. Companion crops are usually planted at lower seeding rates than temporary cover crops. Companion crops may also include annual companion crops. Annual companion crops are usually used when perennial species are not planted during their optimum planting period. A common mixture is Browntop Millet with Common Bermuda or Weeping Lovegrass. Millet should be fished in spring and Bermuda in summer. Other annual crops commonly used are Sudangrass, annual ryegrass, or Wheat with Common Bermuda or Weeping Lovegrass. Sudangrass should be fished in spring and Bermuda in summer. Other annual crops commonly used are Sudangrass, annual ryegrass, or Wheat 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 autocompete and its ability to germinate under adverse conditions.

Seed Quality

The term "Pure live seed" is used to express the quality of seed and is not shown on the label. Pure seed, PLS, is expressed as a percentage of 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 is necessary to calculate the amount of seed to be planted. For example, if the seeding rate is 10 pounds PLS and the seed is 90% PLS (i.e. 70% germination, 89% purity), the bulk seeding rate is: 10 lbs. PLS/acre / 90% PLS = 11.2 lbs/acre. You would need to plant 11.5 lbs/acre to provide 10 lbs/acre of pure live seed.

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding equipment and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

Tillage, at a flat , shall adequately loosen soil to a depth of 4" to 6"; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for proper placement of seed, sprigs, or plants, and allow for anchoring of straw or hay mulch if a disk is to be used.

1. Tillage shall be done with any suitable equipment.
2. Tillage should be done on the contour where feasible.
3. 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" apart in which seed may code and germinate. Hydraulic seeding may also be used.

Anchor/Last Phase

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" deep on the contour 4 to 6 months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Inoculants

All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The inoculant 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 inoculant to the seed. For conventional seeding, use twice the amount of inoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of inoculant 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 broadcasted plantings, 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 ½" to ¾" of soil for small seed and ¾" to 1" 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. Mulch seeding should be done with appropriate mulch seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Arrival Last Phase

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 as originally grown. The top 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 hole. 2" of soil shall be added and the plant shall be set in the hole.

Mulching

Mulch if required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, consider the mulch's functional longevity, vegetation establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

1. *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 2.5 tons per acre.
2. *Wood cellulose mulch or wood pulp fiber* shall be used with hydraulic seeding. It shall be applied at the rate of 500 lbs per acre. Any straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. *Mulch tie of wood cellulose or wood pulp fiber*, which includes a tackifier, shall be used with hydraulic seeding on slopes 3:1 or steeper.
4. *Serious exception to* free containing mature seed shall be applied at a rate of 8 tons per acre.
5. *Wood chips* shall be applied to a depth of 2" to 3" for existing concrete or asphalt. Other suitable materials in sufficient quantity may be used where ornamentals or other plantings are desired. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or blanket sod, mulch is not required.
7. *Bituminous treated* mulch may be applied on planted areas, slopes, or ditches or only waterways to prevent erosion. Bituminous treated mixing shall be applied within 24 hours after an area has been planted. Application rates and materials must meet GA Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contains 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 seedings.

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 applications by one of the following methods:

1. *Dry 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" or more in diameter and 8" to 12" 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.
2. *Synthetics binders, binders or hydraulic mulch specifically designed to tack straw*, shall be applied in conjunction with or immediately after the mulch is spread. Synthetic binders shall be mixed and applied according to manufacturer's specifications. All binders, binders or hydraulic mulch specifically designed to tack straw should be verified erosion through EPA 2021.0 testing. Refer to "binders-tac".
3. Bye or wheat can be mulched with Tall and Winter ryegrass to stabilize the mulch. They should be applied at a rate of ½ to ¾ bushel per acre.
4. Plastic mesh or netting with mesh no larger than 1" by 1" 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.

Seeding Material

Mulch is used as bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bare areas on lawns.

Material	Depth
Small Grain	4" to 6"
Grass Hay	4" to 6"
Pine needles	4" to 8"
Wood waste	4" to 8"

Irrigation

Irrigation will be applied at a rate that will not cause runoff.

Topdressing

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 6-8.5.

Second Year and Maintenance Fertilization

Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-8.5.

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.

Use and Management

Mow Bahia and Bermuda 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" of top growth under any use and management. Wintertime use of top growth is beneficial after establishment. Exclude traffic until plants are well established. Because of quail nesting season, mowing should not take place between May and September.

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool Season Grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
2. Cool Season Grasses and Legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	---
	Maintenance	10-10-10	400 lbs./ac.	---
3. Ground Covers	First	10-10-10	1300 lbs./ac. 3/	---
	Second	10-10-10	1300 lbs./ac. 3/	---
	Maintenance	10-10-10	1100 lbs./ac.	---
4. Pine Seedlings	First	20-10-5	500 lbs./ac. of seedling placed in the planting hole	---
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	---
	Maintenance	0-10-10	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 & Lespedeza	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm Season Grasses & Legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 6/
	Second	0-10-10	1000 lbs./ac.	---
	Maintenance	0-10-10	400 lbs./ac.	---

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 3" to 4".

Table 6-5.5. Durable Shrubs and Ground Covers for Permanent Cover

Ground covers indicate a wide range of low-growing plants planted together in considerable numbers to cover large areas of the landscape. Ground covers grow lower than grasses. Weeds are likely to compete, especially the first year. Maintenance is needed to insure survival. These shrubs should not be used unless proper maintenance is planned. Maintain mulch at 3" thickness until plants provide adequate cover. Fall planting is encouraged because the need for constant watering is reduced and plants have time to establish new roots before hot weather.

COMMON NAME	SCIENTIFIC NAME	MATURE HEIGHT	PLANT SPACING	COMMENT
Abelia	*Abelia grandiflora*	3'-4'	5'	Also a prostate form 1' high. Sun, semi-shade. Semi-evergreen.
Carolina Yellow Jessamine	*Gelsemium sempervirens*	low	3'	Vine. Yellow trumpet-like flowers. Hardy, one of best vines. Evergreen. Native to GA.
Carpet Blue	*Ajuga reptans*	2"-4"	5'	Blue flower clusters. Partial shade. Blue or white flowers. Evergreen.
Sweetberry Cotoneaster	*Cotoneaster dammeri*	2'-4'	6'	White flowers, red fruit. Sun. Evergreen.
Ground Cover Cotoneaster	*Cotoneaster adpressus 'Praecox'*	1'-2'	5'	White flowers, red fruit. Sun. Evergreen.
Rock Cotoneaster	*Cotoneaster horizontalis*	1'-2'	5'	Semi-Evergreen. Sun.
Virginia Creeper	*Parthenocissus quinquefolia*	low	3'	Red in fall. Vine. Deciduous. Native to GA.
Daylily	*Hemerocallis spp.*	2'-3'	2'	Many flower colors. Full sun. Very hardy.
Compacta Holly	*Ilex cornuta 'Compacta'*	3'-4'	5'	Sun. Semi-shade.
Chinese Holly	*Ilex cornuta 'Rotunda'*	3'-4'	5'	Very durable. Sun. Semi-shade.
Dwarf Burford Holly	*Ilex burfordii 'Nana'*	5'-6'	8'	
Dwarf Yaupon Holly	*Ilex vomitoria 'Nana'*	3'-4'	5'	Very durable. Sun. Semi-shade.
Rapandens Holly	*Ilex cornuta 'Rapandens'*	2'-3'	5'	Sun. Semi-shade.
Andorra Juniper	*Juniperus horizontalis 'Plumosa'*	2'-3'	5'	Excellent for slopes. Sun.
Andorra Compacta Juniper	*Juniperus horizontalis 'Andorra Compacta'*	1'-2'	5'	More compact than Andorra.
Compacta Juniper	*Juniperus horizontalis 'Plumosa Compacta'*	1'-2'	5'	More compact than Andorra.
Blue Chip Juniper	*Juniperus horizontalis 'Blue Chip'*	6"-10"	4'	- -
Blue Rug Juniper	*Juniperus horizontalis 'Wiltonii'*	4"-6"	3'	Very low. Sun.
Pfitzer Juniper	*Juniperus chinensis 'Pfitzeriana'*	5'-6'	6'	One of the best, good winter cover.
Parsons Juniper	*Juniperus chinensis 'Parsonii'*	18"-24"	5'	Needs room.
Prince of Wales Juniper	*Juniperus horizontalis 'Prince of Wales'*	6"-10"	4'	Feathery appearance.
Sargent Juniper	*Juniperus chinensis 'Sargentii'*	1'-2'	5'	Full sun. Needs good drainage. Good winter color.
Shore Juniper	*Juniperus conferta*	2'-3'	5'	Emerald Sea or Blue Pacific cultivars are good.
Liriope	*Liriope muscari*	6"-10"	3'	Sun.
Creeping Liriope	*Liriope spicata*	10"-12"	1'	Spreads by runners.
Big Leaf Periwinkle	*Vinca major*	12"-15"	4'	Lilac flowers in spring. Semi-shade.
Common Periwinkle	*Vinca minor*	6"-8"	4'	Lavender-blue flowers in spring. Semi-shade.
Cherokee Rose	*Rosa laevigata*	3'	5'	Rampant grower. Not for restricted spaces. Stout thorn.
Memoria Rosa	*Rosa wechurriana*	3'	5'	Rampant grower.
St. Johnswort	*Hypericum calycinum*	6"-12"	3'	Semi-shade.
Anthony Waterer Spirea	*Spirea bumalda*	3'-4'	5'	Sun.
Thunberg Spirea	*Spirea thunbergii*	3'-4'	5'	Sun.

Other trees and shrubs listed on Table 6-25.3 may be interplanted with the pines for improved wildlife benefits.

Type of Planting	Tree Spacing	No. of Trees per Acre
Trees Alone	4' x 4'	2,722
Trees in Combination w/ grasses and/or other plants	6' x 6'	1,210

[1] M-L represents the Mountain, Blue Ridge, and Ridges and Valleys MLRA*; P represents the Southern Piedmont MLRA*; C represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRA*

* Refer to Georgia Major Land Resource Areas Map

[2] Fertilization of companion crop is ample for this species.

Table 6-5.4. Trees for Erosion Control

SITE	SOIL MATERIAL	COMMON SOILS	PLANTING TREE SPECIES [1]	SPACING	PLANTING DATES [2]
Borrow areas, grades areas, and spoil material	Sandy	Lakeland, Troup	Loblolly Pine (*Pinus taeda*) Longleaf Pine (*Pinus palustris*)	2	M-L, P = 2/1 - 3/15 C = 2/1 - 3/1
	Loamy	Dunnyburg, Tifton	Loblolly Pine (*Pinus taeda*) Slash Pine (*Pinus elliottii*)	2	M-L, P = 2/1 - 3/15 C = 2/1 - 3/1
	Clay	Cecil, Fascevilla	Slash Pine (*Pinus elliottii*) Virginia Pine (*Pinus virginiana*)	2	M-L, P = 2/1 - 3/15 C = 2/1 - 3/1
Streambanks	--	--	Willows* (*Salix spp.*)	2' x 2'	ALL

[1] Reduce seeding rates by 50% when drilled

[2] PLS is an abbreviation for Pure Live Seed. Refer to Section V.E. of these specifications.

[3] M-L represents the Mountain, Blue Ridge, and Ridges and Valleys MLRA*; P represents the Southern Piedmont MLRA* C represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRA*

* Refer to Georgia Major Land Resource Areas Map

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) - (Ds3)

N.T.S.

Ds3

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Table 6-5.2- Permanent Cover Crops

PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

SPECIES	BROADCAST RATES	RESOURCE AREA [2]	PLANTING DATES BY RESOURCE AREA (SOLID lines indicate optimum dates, DOTTED lines indicate permissible, but marginal dates)	REMARKS
BAHIA, PENSACOLA *Paspalum notatum*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone or with temporary cover	60 lbs	1.4 lbs	P C	108,000 seed per pound. Low growing, Sod forming. Slow to establish. Plant with a companion crop. 1/2 hour mix Bermuda. Lasts min and lower 1 cut to 3 cut. Not recommended for mowing lawns.
with other perennials	30 lbs	0.7 lb		
BAHIA, WILMINGTON *Paspalum notatum*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone or with temporary cover	60 lbs	1.4 lbs	M - L P C	108,000 seed per pound. Low growing, Slow to establish. Plant with a companion crop. 1/2 hour mix Bermuda. Lasts min and lower 1 cut to 3 cut. Not recommended for mowing lawns.
with other perennials	30 lbs	0.7 lb		
BERMUDA, COMMON *Cynodon dactylon*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
Hulled seed alone	10 lbs	0.2 lb	P	787,000 seed per pound. Quick cover. Low growing and self-healing. Full sun. Good for athletic fields.
with other perennials	6 lbs	0.7 lb	C	
BERMUDA, COMMON *Cynodon dactylon*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
Unhulled seed with temporary cover	10 lbs	0.2 lb	P	Plant with winter rye only.
with other perennials	6 lbs	0.1 lb	C	Plant with Tall Fescue.
BERMUDA SPRIGS *Cynodon dactylon*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
Coastal, Common, Midland, or Tifton 44	43 cu. ft.	0.9 cu. ft.	M - L P	Cover fast in approx. 450 sq/yds. A bushel cants in 1.25 cows feed or pasture. Plant in spring. Not for lawns.
Coastal, Common, or Tifton 44	or	or	C	
Tift 78	sod plugs 3 x3'			Southern Coastal Plain only.
CENTIPEDE *Eremochloa ophiuroides*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
	Block sod only		P C	Drought tolerant. Fall liver or winter shade. Effective adjacent to concrete walks. Slow to establish. Not for lawns. Vegetative is intended and it. By established by sprigging or plugging. Plant in spring. Not for use in pure stand seeding.
CROWNVETCH *Coronilla varia*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
with winter annuals or cool season grasses	15 lbs	0.3 lb	M - L P C	28,000 seed per pound. Dense grass. Grows 2 years. Grows 6" to 24". Not for lawns. Attractive mass, grey and with a blossom very similar to the Tall fescue in PS. Will be killed by 1st hard frost. Not for use in pure stand seeding. Not for mowing lawns.
RESCUE, TALL *Festuca arundinacea*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	30 lbs	1.1 lbs	M - L P C	227,000 seed per pound. Use also in soil for other mixtures. Will not survive mowing. Not for lawns. Not for use in pure stand seeding. Not for mowing lawns. Tall plantings. Not for heavy use pasture. Not for mowing lawns.
with other perennials	30 lbs	0.7 lb	P	
LESPEDEZA SERICEA *Lespedeza cuneata*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
scarified	60 lbs	1.4 lbs	M - L P C	352,667 seed per lb. Will survive mowing. Mix with Weeping Lovegrass or other low-growing bunch grasses. Not for use in pure stand seeding.
unscarified	75 lbs	1.7 lbs	M - L P C	Mow at 6" Tall fescue or use on other mixtures.
seed-bearing hay	3 tons	1338 lbs	P C	Cut when seed heads are brown & dry. Before, Industries. Add Tall fescue or other mixtures.
LESPEDEZA *Kobe Lespedeza virginia Ex or Appalow Lespedeza cuneata (Dumont) G. Don)*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
scarified	60 lbs	1.4 lbs	M - L P C	330,000 seed per pound. A high of growth to 18"-24". Accepts to all other areas. Control "grass" both. Mow growth from once in duration. Not for mowing lawns. Not for use in pure stand seeding. Not for mowing lawns. Not for use in pure stand seeding. Not for mowing lawns.
unscarified	75 lbs	1.7 lbs	M - L P C	
LESPEDEZA, SHRUB *Lespedeza bicolor, Lespedeza thunbergii*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
plants	3'x2'		M - L P C	Price at wildlife food and cover.
LOVEGRASS, WEEPING *Eragrostis curvula*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	4 lbs	0.1 lb	M - L P C	1,500,000 seed per pound. Quick cover. Drought tolerant. Mix with Sericea lespedeza.
with other perennials	2 lbs	0.05 lb		
MAIDENCANE, *Panicum hemitomon*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
sprigs	2'x3' spacing	ALL		
RINGGRASS, ATLANTIC COASTAL *Panicum amarum var. amarulum*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
	20 lbs	0.5 lb	P C	Grows well on coastal sand dunes, contour areas, in PC and Ply. Has also a very low fertility. Mix with Sea Oats. Not for use in pure stand seeding. Not for mowing lawns.
REED CANARY GRASS *Phalaris arundinacea*	Rate Per Acre / Pure Live Seed Per 1000 sq.ft.		J F M A M J J A S O N D	
alone	50 lbs	1.1 lbs	M - L P	Cross similar to Tall fescue.
with other perennials	30 lbs	0.7 lb	P	
SUNFLOWER, "AZTEC" MAXIMILLIAN *Helianthus maximiliani*	R

Sd2-E

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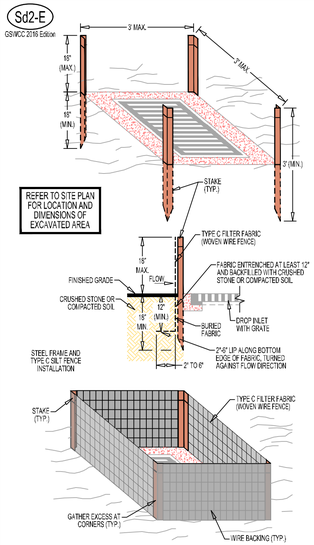

NOTE:

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS)
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAX. OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection

An excavation may be created around the inlet sediment trap to provide additional sediment storage. The trap shall be sized to provide a minimum storage capacity calculated at the rate of 67 cubic yards per acre of drainage area. A minimum depth of 1.5 feet for sediment storage should be provided. Side slopes shall not be steeper than 2:1

CONSTRUCTION SPECIFICATIONS
Filter Fabric with Supporting Frame

Silt fence material with wire reinforcement and supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3' apart, and securely driven into the ground, approximately 18" deep. The fabric shall be 36" tall and entrenched 12" and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18" or wrapped together around a post to provide a continuous fabric barrier around the inlet.

MAINTENANCE
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Soil /exit protection shall be maintained as specified in Dx4 - Disturbed Area Stabilization (With Sodding). Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again. When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

EXCAVATED INLET SEDIMENT TRAP - (Sd2-E)

N.T.S.

Sd2-F

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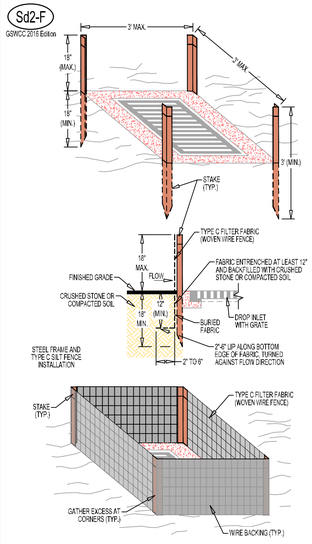

NOTE

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAX. OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection

PURPOSE
To prevent sediment from entering a storm drainage systems prior to permanent stabilization of the disturbed area draining to the inlet.

CONDITIONS
All storm drain drop inlets that receive runoff from disturbed areas.

DESIGN CRITERIA
Through testing there are 2 different categories (high retention and high flow) supported. In areas where BMPs are being used on paved surfaces, or safety is a concern, the potentially negative effects of ponding should be taken into account. In such cases, a high flow BMP is preferred. On unpaved areas where ponding will not cause a safety hazard, high retention shall be taken into account. If high retention is not used in this situation a rationale shall be given on the plan and an unpaved application should apply. Sediment traps must be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than 1 acre. If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also a storm filter may be used on the up slope side of the inlet to slow runoff and filter larger soil particles. Refer to F-Storm Filter Ring.

CONSTRUCTION SPECIFICATIONS
Filter Fabric with Supporting Frame

This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 5%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. As shown in Figure 6-28.1 Type S silt fence supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3' apart, and securely driven into the ground, approximately 18" deep. The fabric shall be 36" tall and entrenched 12" and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18" or wrapped together around a post to provide a continuous fabric barrier around the inlet.

MAINTENANCE
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Soil /exit protection shall be maintained as specified in Dx4 - Disturbed Area Stabilization (With Sodding). Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again. When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

INLET SEDIMENT TRAP (FILTER FABRIC W/ SUPPORTING FRAME) - (Sd2-F)

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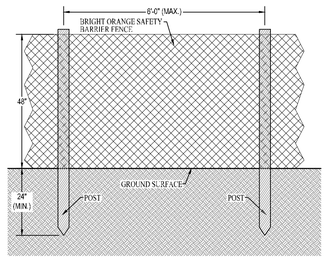

NOTES:

1. THE FENCE SHALL BE LOCATED AS SHOWN ON THE TREE PROTECTION AND REPLACEMENT PLAN.
2. FENCE POSTS SHALL BE EITHER 2"x 4" WOOD POSTS OR STANDARD STEEL POSTS.
3. THE FENCE SHALL BE BRIGHT ORANGE POLYETHYLENE SAFETY BARRIER FENCE - GRAINGER ITEM #5W418 (4 FEET HEIGHT, 50 FEET LENGTH, 1 3/4 IN MESH HEIGHT, 2 1/8 IN MESH LENGTH, DIAMOND SHAPE MESH, 160 POUNDS PER FOOT BREAKING STRENGTH.

BRAND: ALLSAFE SMC

MFR. MODEL: #3010763

CATALOG PAGE NO.: 2773

TREE PROTECTION FENCING

N.T.S.

Ss

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

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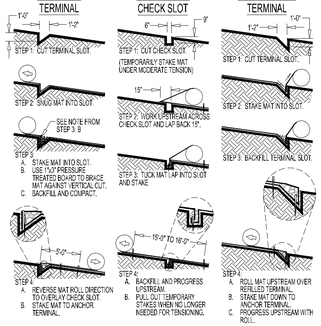
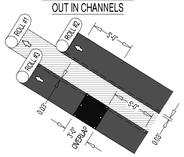
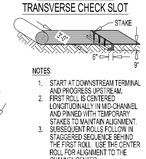


SEQUENTIAL ROLL RUN OUT IN CHANNELS



PICTORIAL VIEW OF TRANSVERSE CHECK SLOT



NOTES

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 THE FIRST ROLL. USE THIS CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 3" OVERLAPS AND STAKE AT 5'-0" INTERVALS ALONG THE SEAMS.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

TYPICAL INSTALLATION GUIDELINES FOR MATTING AND BLANKETS (Figure 6-9.10.1)

CONDITIONS
Slope stabilization can be applied to flat areas or slopes where the erosion hazard is high and slope protection is needed during the establishment of vegetation.

PLANNING CONSIDERATIONS
Care must be taken to choose the type of slope stabilization product that is most appropriate for the specific needs of a project. Two general types of slope stabilization products are discussed within this specification.

Rolled Erosion Control Products (RECP)
A natural fiber blanket with single or double photodegradable or biodegradable nets

Hydraulic Erosion Control Products (HECP)
HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent that works to stabilize soil particles. Paper mulch should not be used for erosion control.

CRITERIA
Rolled Erosion Control Products (RECPs) and Hydraulic Erosion Control Products (HECPs):

- Installation and sizing of RECPs and application rates for HECPs shall conform to manufacturer's guidelines for application.
- Short-Term RECPs as a minimum shall be used to stabilize concentrated flow areas with a velocity less than 5ft/sec on slopes 3:1 or greater with a height of 10' or greater.

MATERIALS

HECP
Hydraulic erosion control products shall be precpackaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed. Fibrous components should be all natural or biodegradable. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012.

RECP
Blankets shall be non-toxic to vegetation, seed, or wildlife. Products shall be determined to be non-toxic in accordance with EPA821-R-02-012. At minimum, the plastic or biodegradable netting shall be stitched to the fibrous matrix to maximize strength and provide for ease of handling.

RECPs are categorized as follows:

a. Short-Term (functional longevity 12 mo.)
   i. Photodegradable
   Straw blankets with a top and bottom side photodegradable net. The maximum size of the mesh should be openings of 0.5" x 0.5". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.
   ii. Biodegradable
   Straw blanket with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.
b. Extended-Term (functional longevity 24 mo.)
   i. Photodegradable
   Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" x 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.6 lbs per square yard.
   ii. Biodegradable
   Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.
c. Long-Term (functional longevity 36 mo.)
   i. Photodegradable
   Blankets that consist of 100% coconut with a top and bottom side photodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.
   ii. Biodegradable
   Blankets that consist of 100% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

NOTES
In the intension of this section to allow interchangeable use of RECPs and HECPs for erosion protection on slopes. The project engineer should select the type of erosion control product that best fits the need of the particular site.

SITE PREPARATION
After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than 1" in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, nutrient any runoff from the ditch or slope during installation.

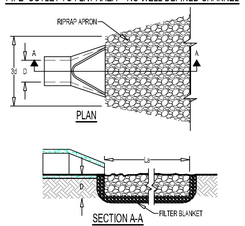
MAINTENANCE
All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

SLOPE STABILIZATION - (Ss)

St

STORM DRAIN OUTLET PROTECTION (USING RIP-RAP)

PIPE OUTLET TO FLAT AREA – NO WELL DEFINED CHANNEL



PIPE OUTLET TO WELL DEFINED CHANNEL

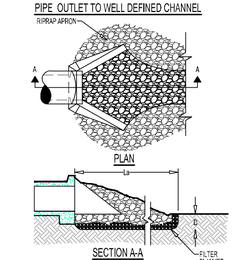


Figure 6-34.3 - Riprap Outlet Protection

NOTES:

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

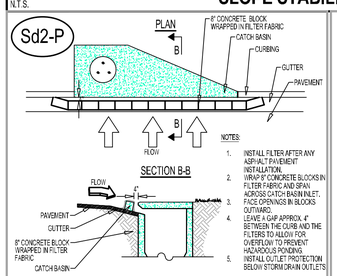
CONSTRUCTION SPECIFICATIONS

1. Ensure that the subgrade for the filter and rip-rap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the rip-rap thickness.
2. The rip-rap and gravel filter must conform to the specified grading limits shown on the plans.
3. Geotextile must meet design requirements and be properly protected from punching or tearing during installation. Repair any damage by removing the rip-rap and placing another piece of filter fabric over the damaged area. All connecting joints should overlap a minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.
4. Rip-rap may be placed by equipment, but take care to avoid damaging the filter.
5. The minimum thickness of the rip-rap should be 1.5 times the maximum stones diameter.
6. Construct the apron on zero grade with no overfall at the end. Make the top of the rip-rap at the downstream end level with the receiving area or slightly below it.
7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper section of the apron.
8. Immediately after construction, stabilize all disturbed areas with vegetation.
9. Stone quality - Select stone for rip-rap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific Gravity of the individual stones should be at least 2.5.
10. Filter - Install a filter to prevent soil movement through the openings in the rip-rap. The filter should consist of a graded gravel layer or a synthetic filter cloth.

MAINTENANCE
Inspect rip-rap outlet structures after heavy rains to see if any erosion around or below the rip-rap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

N.T.S.

Sd2-P



NOTES:

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

CONSTRUCTION SPECIFICATIONS
Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas. This method of inlet protection shall be removed if a safety hazard is created.

One method of curb inlet protection uses "pigs-in-a-blanket" - 8" concrete blocks wrapped in filter fabric. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

A gap of approximately 4" shall be left between the inlet filter and the inlet to allow overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition.

MAINTENANCE
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap.

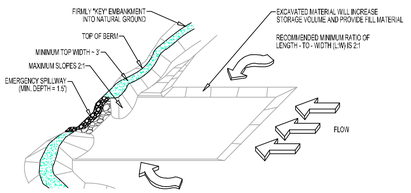
Sediment shall be removed from curb inlet protection immediately. Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

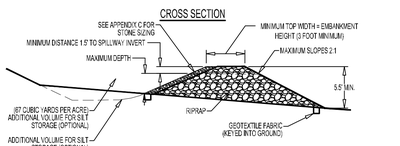
When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

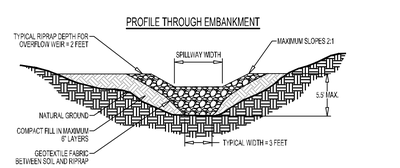
CURB INLET PROTECTION "Pigs-in-a-Blanket"

N.T.S.

TEMPORARY SEDIMENT TRAP (ROCK OUTLET) SD4-C







N.T.S.

Du

GSWCC 2016 Edition

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods
- Mulches. See standard Dx1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tsc - Tackifiers. Resins should be used according to manufacturer's recommendations.
- Vegetative Cover. See specification Dx2 - Disturbed Area Stabilization (With Temporary Seeding).
- Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tsc - Tackifiers
- Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation.
This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers.
Solid board fences, snowfences, 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.

Calcium Chloride.
Apply at rate that will keep surface moist. May seed emsietment.

B. Permanent Methods

Permanent Vegetation. See specification Dx3 - Disturbed Area Stabilization (With Permanent Vegetation). 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 specification Tp - Topsoiling.

Stone. Cover surface with crushed stone or coarse gravel. See specification Cr - Constructor Road Stabilization.

DUST CONTROL ON DISTURBED AREAS - (Du)

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www.georgiacivil.com

Professional Seal

GEORGIA REGISTERED NO. PE024660 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
PARCEL ID:0008-002H
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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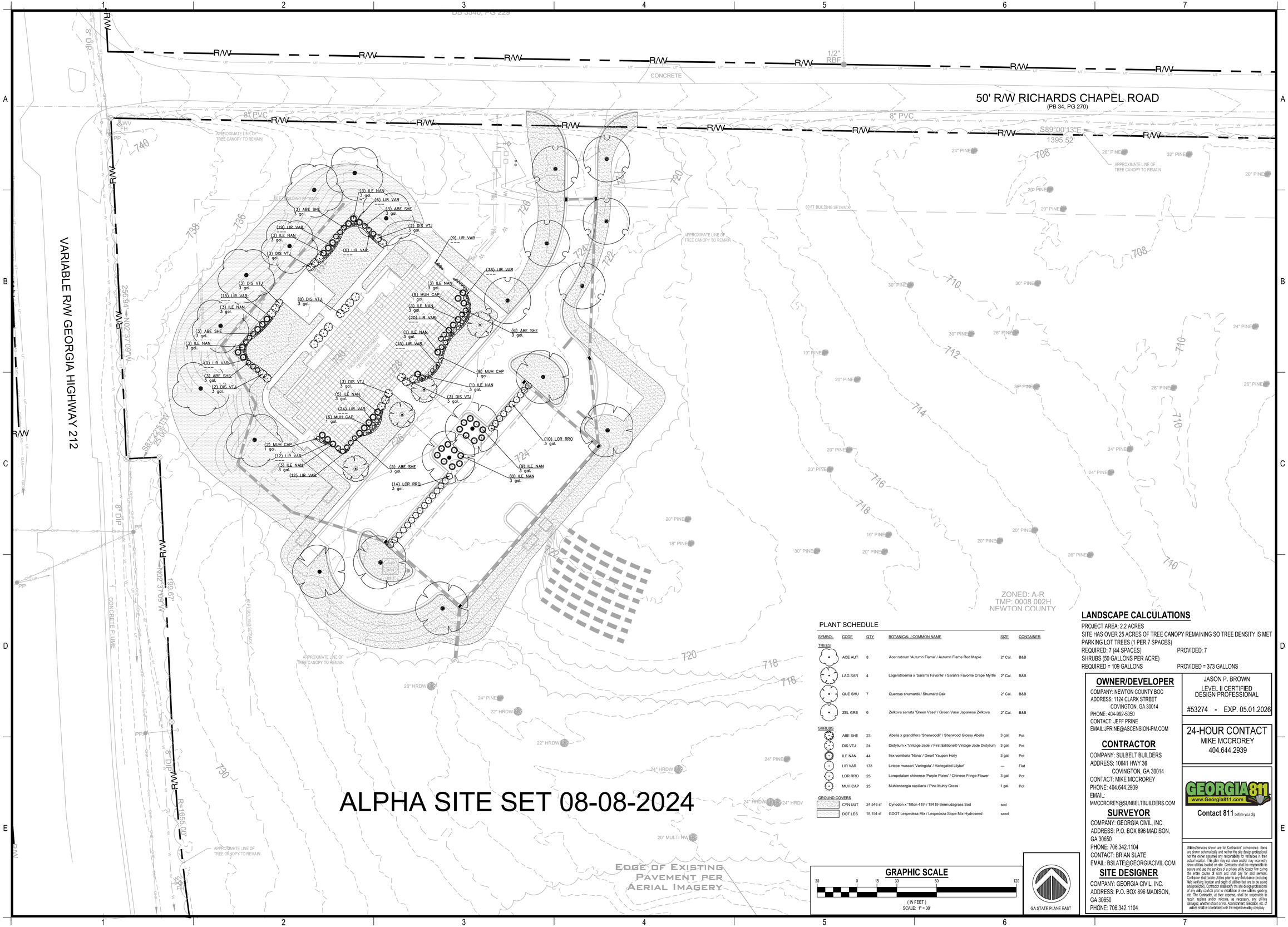
Sheet Title

EROSION SEDIMENTATION AND POLLUTION CONTROL DETAILS

Sheet Number

C-6.13

ALPHA SITE SET 08-08-2024



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES					
	ACE AUT	8	Acer rubrum 'Autumn Flame' / Autumn Flame Red Maple	2" Cal.	B&B
	LAG SAR	4	Lagerstroemia x 'Sarah's Favorite' / Sarah's Favorite Crape Myrtle	2" Cal.	B&B
	QUE SHU	7	Quercus shumardii / Shumard Oak	2" Cal.	B&B
	ZEL GRE	6	Zelkova serrata 'Green Vase' / Green Vase Japanese Zelkova	2" Cal.	B&B
SHRUBS					
	ABE SHE	23	Abelia x grandiflora 'Sherwoodii' / Sherwood Glossy Abelia	3 gal.	Pot
	DIS VTJ	24	Distylium x 'Vintage Jade' / First Editions® Vintage Jade Distylium	3 gal.	Pot
	ILE NAN	44	Ilex vomitoria 'Nana' / Dwarf Yaupon Holly	3 gal.	Pot
	LIR VAR	173	Liriope muscari 'Variegata' / Variegated Lilyturf	---	Flat
	LOR RRO	25	Loropetalum chinense 'Purple Pixies' / Chinese Fringe Flower	3 gal.	Pot
	MUH CAP	25	Muhlenbergia capillaris / Pink Muhly Grass	1 gal.	Pot
GROUND COVERS					
	CYN UUT	24,546 sf	Cynodon x 'Tifton 419' / Tif419 Bermudagrass Sod	sod	
	DOT LES	18,154 sf	GDOT Lespedeza Mix / Lespedeza Slope Mix-Hydroseed	seed	

LANDSCAPE CALCULATIONS

PROJECT AREA: 2.2 ACRES
SITE HAS OVER 25 ACRES OF TREE CANOPY REMAINING SO TREE DENSITY IS MET
PARKING LOT TREES (1 PER 7 SPACES)
REQUIRED: 7 (44 SPACES) PROVIDED: 7
SHRUBS (50 GALLONS PER ACRE)
REQUIRED = 109 GALLONS PROVIDED = 373 GALLONS

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
ADDRESS: 1124 CLARK STREET
COVINGTON, GA 30014
PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL: JPRINE@ASCENSION-PM.COM

CONTRACTOR
COMPANY: SULBELT BUILDERS
ADDRESS: 10641 HWY 36
COVINGTON, GA 30014
CONTACT: MIKE MCCROREY
PHONE: 404.644.2939
EMAIL: MMCCROREY@SUNBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
MIKE MCCROREY
404.644.2939

GEORGIA811 www.Georgia811.com
Contact 811 before you dig

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

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Sheet Title

LANDSCAPE PLAN

Sheet Number

C-7.0

GENERAL PLANTING NOTES

1. SELECTION:
   A. ALL PLANT MATERIALS TO BE (GEORGIA #1) OR BETTER (GEORGIA FANCY) DEFINED AND SPECIFIED ACCORDING TO GRADES AND STANDARDS FOR NURSERY STOCK PUBLISHED BY THE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY UTILIZING THE LATEST UPDATED EDITION.
   B. ALL PLANT MATERIAL SHALL MEET THE MINIMAL SIZE REQUIREMENT AS STATED ON THE PLANT LIST.
   C. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY LOCATION. LANDSCAPE ARCHITECT WILL DECIDE FINAL APPROVAL OF ALL PLANT MATERIAL DELIVERED TO THE PROJECT SITE.
   D. THE LANDSCAPE ARCHITECT MAY MAKE SELECTION OF PLANT MATERIAL PROCURED UNDER THIS PROJECT AT THE PLACE OF CULTIVATION BEFORE THE CONTRACTOR PURCHASES AND PREPARES FOR DELIVERY TO PROJECT SITE. THE CONTRACTOR IS TO RETAIN AND SUBMIT CERTIFICATION TAGS VERIFYING TYPE AND PURITY OF LANDSCAPE MATERIAL.
   E. ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, UNLESS OTHERWISE NOTED. PLANTS SHALL BE EXCEPTIONALLY DENSE WITH A NATURALISTIC BRANCHING CHARACTER AS INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT.
   F. LANDSCAPE CONTRACTOR SHALL REFER TO PLANTING PLAN AND PLANT LIST FOR MATERIAL PROCUREMENT. QUANTITY ESTIMATES ON THE PLANTING PLAN AND PLANT LIST ARE FOR REFERENCE ONLY.
   G. CONTRACTOR SHALL FURNISH ALL QUANTITIES NECESSARY TO COMPLETE THE PLANTING AREAS AS SHOWN ON THE DRAWING TO ACCEPTANCE AND SATISFACTION AT THE LANDSCAPE ARCHITECT.
   H. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT SHOULD THERE BE CHANGES IN THE PLANTING AREAS ON SITE RESULTING IN SUBSTANTIAL DIFFERENCE IN QUANTITIES AND SPECIES REQUIRED.
   I. WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE AND HEALTHY AND IN VIGOROUSLY THRIVING CONDITION FOR PERIOD OF 1 YEAR FROM DATE OF FINAL ACCEPTANCE.

2. EXECUTION:
   A. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH DRAWINGS, SPECIFICATIONS AND INSTRUCTIONS PROVIDED BY LANDSCAPE ARCHITECT.
   B. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AS NECESSARY TO EXECUTE AND COMPLETE PROPOSED LANDSCAPE / IRRIGATION INSTALLATION IN A TIMELY MANNER COMPLYING WITH THE SCHEDULED COMPLETION DATE.
   C. WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE INTENTIONS OF THE SPECIFIED DRAWINGS. ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE OF BEST QUALITY AND TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
   D. PLANTING PLANS INDICATE DIAGRAMMATIC LOCATION ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO LANDSCAPE ARCHITECT APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER.
   E. LANDSCAPE CONTRACTOR SHALL STAKE AND/OR MARK ALL TREE AND PLANT LOCATIONS AT SITE AND NOTIFY LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLANT INSTALLATION.
   F. UTILITIES: THE LANDSCAPE CONTRACTOR SHALL DETERMINE LOCATION OF ALL ABOVE GRADE AND UNDERGROUND UTILITIES PERFORM WORK THAT WILL AVOID DAMAGE TO UTILITIES. THE CONTRACTOR SHALL MAKE GOOD ALL DAMAGED UTILITIES AT NO COST TO OWNER.
   G. DRAINAGE: CONTRACTOR SHALL CONDUCT PERCOLATION TEST IN AREAS TO BE PLANTED: NOTIFY LANDSCAPE ARCHITECT OF ANY POOR DRAINAGE PROVIDE SUPPLEMENTAL PIT DRAINAGE AS REQUIRED TO ENSURE HEALTHY PLANT MATERIALS (SEE SPECIFICATIONS FOR DETAILS)
      IF DRAINAGE IS NOT SUFFICIENT NOTIFY LANDSCAPE ARCHITECT BEFORE INSTALLING THE PLANTS. OTHERWISE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE GUARANTEE AND LIVABILITY OF THE PLANT.

3. GENERAL PLANTING:
   A. THE CONTRACTOR'S FIELD SUPERVISOR SHALL ACCOMPANY LANDSCAPE ARCHITECT ON ALL PLANT TAGGING AND SITE VISITS.
   B. CONTRACTOR SHALL PLACE 2" DEPTH OF AGED MUSHROOM COMPOST IN ALL PLANTING BEDS THAT ARE WELL DRAINED. MUSHROOM COMPOST SHALL THEN BE THOROUGHLY TILLED INTO EXISTING SOIL TO A DEPTH OF 10"-12" PRIOR TO PLANTING.
   C. PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE VIEWED.
   D. PROVIDE 1" THICK MULCH (MEASURED AFTER WATERING IN) AT ALL PLANTS AND PLANTING BEDS. MULCH SHALL BE DOUBLE SHREDDED OR FINE HARDWOOD UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.
   E. PROVIDE A CLEAN SHARP EDGING OF LANDSCAPE BEDS ADJACENT TO LAWN AREAS UNLESS OTHERWISE NOTED.
   F. CONTRACTOR SHALL BE RESPONSIBLE FOR "ROLLING" ALL SOD THAT IS INSTALLED (ON THE DAY THE SOD IS INSTALLED). HOWEVER, NO SOD SHALL BE LAID WHERE THE GRADE IS NOT CORRECT.

4. TREE PLANTING:
   A. REMOVE FIRST 8-10" OF WIRE BASKET FROM ROOTBALLS. IF REMOVAL WILL RESULT IN ROOTBALL INJURY, CUT AND REMOVE WIRES ONCE IN HOLE TO ALLOW FOR ROOT EXPANSION.
   B. MULCH SAUCERS TO BE 8' (MIN.) DIAMETER FOR ALL TREES NOT INCLUDED W/I A MULCH BED.
   C. STAKING AND GUYING DETAILS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ADAPT STAKING AND GUYING METHOD ACCORDING TO SITE CONDITIONS.
   D. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE STAKING AND GUYING PERIODICALLY AS NECESSARY OR AS INSTRUCTED BY LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL MAINTAIN PLANT MATERIAL IN AN UPRIGHT POSITION AT ALL TIMES DURING THE CONTRACT PERIOD.
   E. STAKING AND GUYING OF TREES SHALL BE FOR THE PURPOSE OF ESTABLISHMENT ONLY. STAKING AND GUYING DETAILS ARE NOT DESIGNED OR ENGINEERED TO WITHSTAND STRONG WIND OR WINDSTORM CONDITIONS.
   F. IF CONTRACTOR SEES ANY SITUATION ON THE SITE WHERE A TREE IS TO BE STAKED WITH ARBORTIES, BUT IT APPEARS TO PRESENT A SAFETY HAZARD TO RESIDENCE OF THE PROPERTY, THEIR CHILDREN OR THEIR GUEST, THE TREE SHALL NOT BE STAKED AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED.
   G. SPECIMEN TRANSPLANTED TREE PROTECTION IS THE OWNER'S RESPONSIBILITY.
   H. PROPER DRAINAGE FROM ROOTBALL IS THE RESPONSIBILITY OF THE CONTRACTOR.
   I. USE ARBORGUARD WEBBING TO SECURE PLANT. SPACE STAKES EQUALLY AT 120° ANGLES AROUND TREE
   J. NYLON WEBBING SHOULD BE SECURED IN SUCH A WAY AS TO ALLOW SOME MOVEMENT OF TREE
   K. PLANT TREE 2" ABOVE FINISHED GRADE IF MIXING SOIL TYPES, OTHERWISE PLANT AT FINISHED GRADE

5. PRUNING AND MAINTENANCE:
   A. PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS AS A RESULT OF TRANSPLANTING OPERATION AND TO MAINTAIN SAFETY IN VEHICULAR AREAS.
   B. PRUNING SHALL BE DONE IN SUCH A MANNER AS TO NOT CHANGE THE NATURAL HABIT OR SHAPE OF THE PLANT. ALL CUTS SHALL BE MADE FLUSH, LEAVING NO STUBS ACCORDING TO A.N.A STANDARDS.
   C. THE LANDSCAPE ARCHITECT SHALL BE THE SOLE PARTY TO APPROVE ALL APPROPRIATE PRUNING.
   D. MAINTENANCE WORK AS DESCRIBED IN THE SPECIFICATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND UNTIL DATE OF THE FINAL ACCEPTANCE BY OWNER AND LANDSCAPE ARCHITECT.

MEADOW AND STORMWATER PLANTING SEED MIXES

1. SITE PREPARATION:
   A. PRIOR TO PLANTING, SITE SHALL BE INSPECTED FOR PROPER ELEVATION AND SUITABILITY OF SOILS.
   B. UNCULTIVATED AND CULTIVATED SITES WITH FEW OR NO NATIVES REQUIRE THE USE OF BROAD-SPECTRUM SYSTEMIC HERBICIDE GLYPHOSATE. THIS SHOULD BE APPLIED AS SOON AS THE SITE IS ACCESSIBLE. THE MOST COMMON GRASS-SPECIFIC HERBICIDES USED IN RESTORATION WORK ARE FLUAZIFOP (FUSILADE), SETHOXYDIM (POAST), AND CLETHODIM (ENVOY, SELECT 2EC, AND SECTION).
   C. SUGGESTED APPLICATION RATES ARE 2 QUARTS/ACRE IN COOL WEATHER AND I QUART/ACRE IN WARM WEATHER (1-2% GLYPHOSATE SOLUTION). TIMING OF THE APPLICATION IS CRUCIAL. IT IS DESIRABLE TO ELIMINATE WEEDS BEFORE THEY FLOWER.
   D. HARD TO KILL PERENNIAL FORBS CAN BE TREATED WITH A BROADLEAF HERBICIDE SUCH AS TRICLOPYR (GARLON).
   E. DISC OR DRAG HARROW THE TOP 1-2" OF SOIL ONLY (DO NOT TILL DEEPLY AS THIS WILL BRING ADDITIONAL WEED SEEDS IN THE SOIL TO THE SURFACE).
   F. DO NOT ADD LIME. LIME CAN BURN SEEDLINGS OR IMPACT GERMINATION RATES.
   G. AMENDMENTS ARE GENERALLY NOT NECESSARY, BUT MAY BE USED IF YOUNG PLANTS

2. PLANTING:
   A. PLANT MATERIAL SHOULD BE LIFTED AS CLOSE TO THE PLANTING DATE AS POSSIBLE. FURTHERMORE, PLANT MATERIALS SHALL NOT BE STORED BEYOND THE TIME LIMITS SPECIFIED BY THE SUPPLIER. PLANTS SHALL BE STORED PER THE SUPPLIER'S SPECIFICATIONS AND IN SUCH A MANNER AS TO PROTECT THEIR INTEGRITY AND VIABILITY. PLANTS LOST DURING STORAGE SHALL BE REPLACED WITH FRESH STOCK UNDER THE RESPONSIBILITY OF THE CONTRACTOR.
   B. IT IS RECOMMENDED THAT PLANTING COMMENCE IN THE FALL SEASON CONCURRENT WITH OR AFTER PROJECT CONSTRUCTION HAS TAKEN PLACE. FALL PLANTINGS ARE "DORMANT SEEDINGS" IN WHICH THE SEED OVER-WINTERS IN THE SOIL AND GERMINATES THE FOLLOWING SPRING.
   C. FALL (SEPT. TIL SOIL FREEZE UP)- IN GENERAL, WILDFLOWER SEEDS HAVE INCREASED GERMINATION RATES DURING THE SPRING AFTER A FALL PLANTING THAN WHEN PLANTED IN THE SPRING. FALL PLANTINGS TAKES ADVANTAGE OF COLD, MOIST WINTER CONDITIONS, BREAKING SEED DORMANCIES AND PROMOTING EARLIER GERMINATION AND FASTER SEEDLING ESTABLISHMENT THE FOLLOWING SPRING.
   D. SPRING (MARCH-MAY) - IN GENERAL, WARM SEASON GRASSES (GRASSES SUCH AS LITTLE BLUESTEM, BIG BLUESTEM, AND INDIANGRASS WHICH DO MOST OF THEIR GROWING DURING THE WARM SUMMER MONTHS) SHOW HIGHER GERMINATION RATES WHEN PLANTED IN LATE SPRING/EARLY SUMMER, COMPARED TO FALL SEEDINGS. SPRING PLANTING IS ALSO GENERALLY RECOMMENDED FOR PRAIRIE WILDFLOWER AND GRASS TRANSPLANTS TO AVOID "FROST HEAVING." TRANSPLANTING IN SPRING ALSO ALLOWS SUBSTANTIAL TIME FOR ROOT ESTABLISHMENT BEFORE THE COLD WINTER MONTHS.
   E. WHERE BARE SOIL IS A CONCERN AND WHERE THE SITE WILL REMAIN DISTURBED FOR AN EXTENDED PERIOD OF TIME, A SEASONAL COVER CROP IS RECOMMENDED.
   F. OPTIMAL TIME TO SOW NATIVE GRASS SPECIES IS IN THE FALL (SEPT. - NOV.). THIS WILL ALLOW STRATIFICATION (MOISTURE AND COLD SO SEED WILL IMBIBE WATER AND GERMINATE) REQUIREMENTS TO BE MET. MAY SPECIES OF ANNUALS AND SOME PERENNIALS DO NOT NEED LONG STRATIFICATION.
   G. BEST TO SEED BEFORE RAIN EVENT OR ENSURE SITE IS WELL IRRIGATED AFTER SEEDING (IRRIGATION GENERALLY NOT NEEDED A/F GERMINATION UNLESS RAIN EVENT HAS NOT OCCURRED W/I 2-3 WKS). WATCH SEEDLINGS TO DETERMINE IF IRRIGATION IS NEEDED. SEED SHOULD HAVE GERMINATED AFTER TWO WEEKS.
   H. BROADCAST THE SEED AT A RATE OF 1LB./1,000S.F. OR 20LBS./ACRE. CRISS-CROSSING THE AREA IN A NORTH-SOUTH DIRECTION FOLLOWED BY AN EAST-WEST DIRECTION TO DETERMINE EXTENT OF AREA TO BE SEEDED
   I. USE ONLY REPUTABLE SEED SOURCES WITH PURE LIVE SEED, WHICH ACCOUNT FOR THE WILDFLOWERS SPECIFIED ARE TO BE NATIVE TO THE UPPER PIEDMONT REGION OF GEORGIA.
   J. LAY DOWN STRAW AFTER SEEDING. USE WHEAT STRAW ONLY SO AS TO MINIMIZE INTRODUCTION OF FOREIGN OR UNDESIRABLE SPECIES. DO NOT USE HAY AS IT CONTAINS A VARIETY OF PLANT MATTER AND SEEDS THAT CAN POTENTIALLY COMPOUND EFFORTS AT ERADICATING FOREIGN AND UNDESIRABLE SPECIES.

3. SITE MAINTENANCE:
   A. BEST TO NOT DISTURB SEEDLINGS DURING FIRST GROWING SEASON. IF MOWING IS DESIRED TO MAINTAIN "TIDY" APPEARANCE, MOW AT HEIGHT NO LOWER THAN 6-8" NOTE: HEAVY MACHINERY MAY DISTURB OR DAMAGE YOUNG SEEDLINGS. NATIVE MEADOW SEEDLINGS MAY ONLY GROW 1-2" IN THE FIRST GROWING SEASON AS MOST OF THE ENGERY IS BEING PUT INTO THE ROOT SYSTEM.

4. NURSERY RECOMMENDATIONS:
   BAKER ENVIRONMENTAL NURSERY
   949 MARSHALL CLARK ROAD
   HOSCHTON, GA 30548

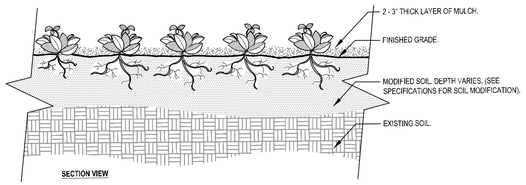
   GROWILD, INC.
   7190 HILL HUGHES ROAD
   FAIRVIEW, TN 37062

   HOFFMAN NURSERY
   5520 BAHAMA ROAD
   ROUGEMONT, NC 27572

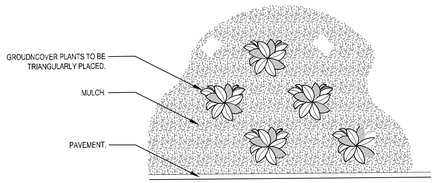
   NORTH CREEK NURSERIES
   388 NORTH CREEK RD
   LANDENBERG, PA 19350

   ROCKSPRING RESTORATIONS
   12 PACES WEST DRIVE, NW
   ATLANTA, GA 30327

   WOODLANDERS, INC
   1128 COLLETON, AVE, SE
   AIKEN, SC 29801



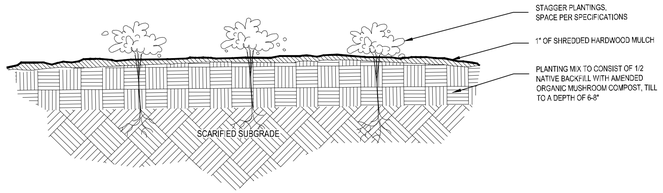
SECTION VIEW



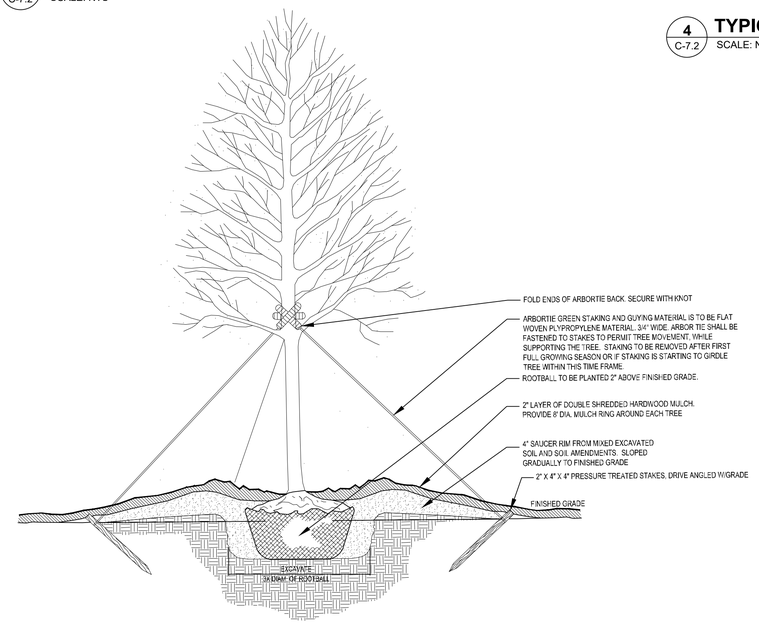
PLAN

Notes:
1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES , SIZE AND SPACING DIMENSION.
2- SMALL ROOTS (¼" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).
3- SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

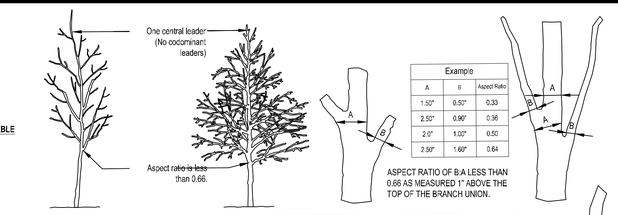
1 GROUNDCOVER
C-7.2 SCALE: NTS



3 TYPICAL PLANTING DETAIL - CONTAINER OR PLUG
C-7.2 SCALE: NTS

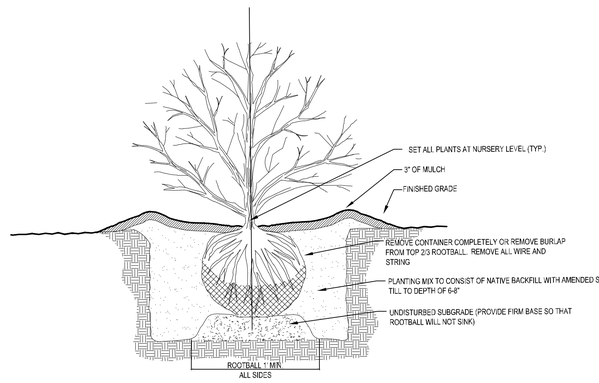


5 TYPICAL TREE PLANTING DETAIL - BALL AND BURLAP
C-7.2 SCALE: NTS



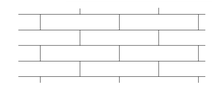
NOTES:
1- ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.
2- ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.

2 CROWN OBSERVATIONS - HIGH BRANCHED
C-7.2 SCALE: NTS

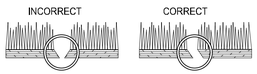


4 TYPICAL SHRUB PLANTING DETAIL - BALL AND BURLAP
C-7.2 SCALE: NTS

SOD LAYOUT AND PREPARATION



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.



BUTTING : ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

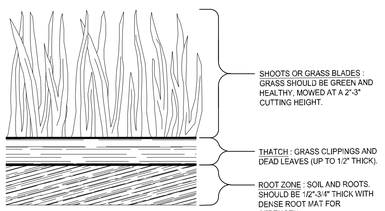
DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED – IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



5 SOD MAINTENANCE AND INSTALLATION
C-7.2 SCALE: NTS

OWNER/DEVELOPER
COMPANY: NEWTON COUNTY BOC
ADDRESS: 1124 CLARK STREET
COVINGTON, GA 30014
PHONE: 404-992-5050
CONTACT: JEFF PRINE
EMAIL:JPRINE@ASCENSION-PM.COM

CONTRACTOR
COMPANY: SULBELT BUILDERS
ADDRESS: 10641 HWY 36
COVINGTON, GA
30014
CONTACT: MIKE MCCROREY
PHONE: 404.644.2939
EMAIL: MCCRORE@SULBELTBUILDERS.COM

SURVEYOR
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104
CONTACT: BRIAN SLATE
EMAIL: BSLATE@GEORGIACIVIL.COM

SITE DESIGNER
COMPANY: GEORGIA CIVIL, INC.
ADDRESS: P.O. BOX 896 MADISON, GA 30650
PHONE: 706.342.1104

JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
MIKE MCCRORY
404.644.2939

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Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

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Professional Seal

GEORGIA REGISTERED NO. PE024660 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

ALPHA SITE SET 08-08-2024

NEWTON COUNTY SENIOR ENRICHMENT CENTER
6244 HIGHWAY 212
COVINGTON, GA 30014
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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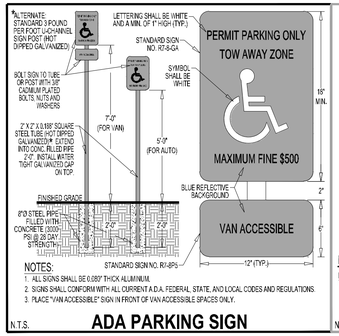
Sheet Title

LANDSCAPE DETAILS

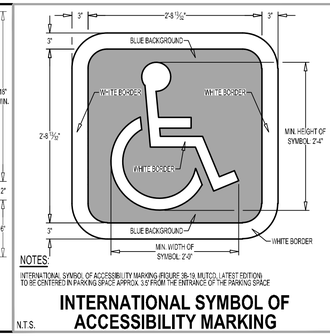
Sheet Number

C-7.1



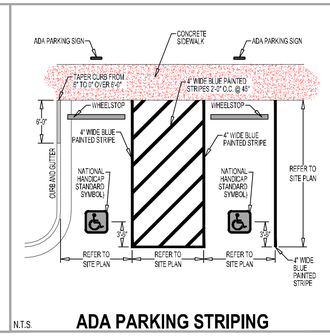
NOTES:
1. ALL SIGNS SHALL BE 0.080" THICK ALUMINUM.
2. SIGNS SHALL CONFORM WITH ALL CURRENT A.D.A. FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
3. PLACE "VAN ACCESSIBLE" SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.

N.T.S. **ADA PARKING SIGN**

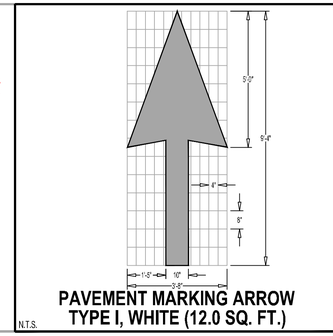


NOTES:
INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING (FIGURE 36-10 MUTCD, LATEST EDITION) TO BE CENTERED IN PARKING SPACE APPROX. 3.5' FROM THE ENTRANCE OF THE PARKING SPACE

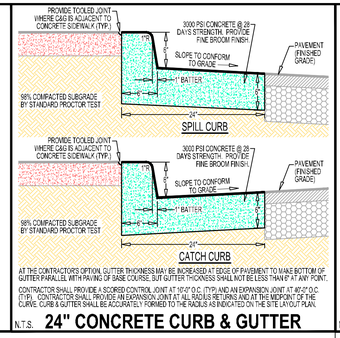
N.T.S. **INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING**



N.T.S. **ADA PARKING STRIPING**



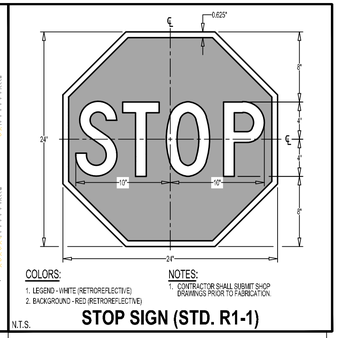
N.T.S. **PAVEMENT MARKING ARROW TYPE I, WHITE (12.0 SQ. FT.)**



AT THE CONTRACTOR'S OPTION, GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT GUTTER THICKNESS SHALL NOT BE LESS THAN 6" AT ANY POINT.

CONTRACTOR SHALL PROVIDE A SCORED CONTROL JOINT AT 10'-0" O.C. (TYP.) AND AN EXPANSION JOINT AT 40'-0" O.C. (TYP.). CONTRACTOR SHALL PROVIDE AN EXPANSION JOINT AT ALL RADIUS RETURNS AND AT THE MIDPOINT OF THE CURVE. CURB & GUTTER SHALL BE ACCURATELY FORMED TO THE RADIUS AS INDICATED ON THE SITE LAYOUT PLAN.

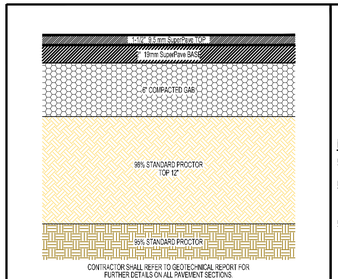
N.T.S. **24" CONCRETE CURB & GUTTER**



COLORS:
1. LEGEND - WHITE (RETROREFLECTIVE)
2. BACKGROUND - RED (RETROREFLECTIVE)

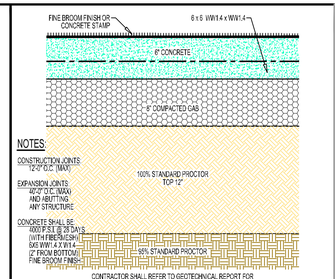
NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.

N.T.S. **STOP SIGN (STD. R1-1)**



CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAILS ON ALL PAVEMENT SECTIONS.

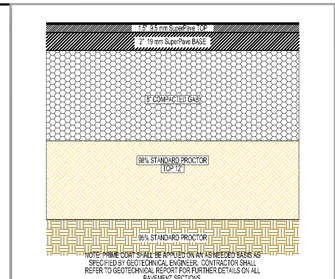
N.T.S. **STANDARD DUTY ASPHALT PAVING SECTION**



NOTES:
CONSTRUCTION JOINTS 10'-0" O.C. (MAX)
EXPANSION JOINTS 40'-0" O.C. (MAX) AND ABUTTING ANY STRUCTURE
CONCRETE SHALL BE 4000 P.S.I. @ 28 DAYS (WITH FIBER MESH) 6X6 WW1.4 X WW1.4 (2" FROM BOTTOM) FINE BROOM FINISH

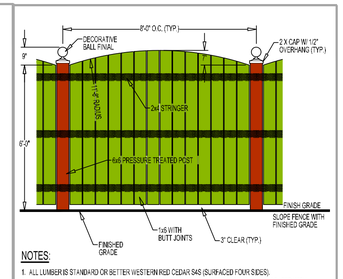
CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAILS ON ALL PAVEMENT SECTIONS.

N.T.S. **HEAVY DUTY CONCRETE SECTION**



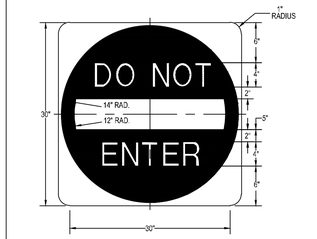
NOTE: PAVE CONTRACT SHALL BE APPLIED ON AS NEEDED BASIS AS SPECIFIED BY GEOTECHNICAL ENGINEER. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAILS ON ALL PAVEMENT SECTIONS.

N.T.S. **HEAVY DUTY ASPHALT PAVING SECTION**



NOTES:
1. ALL LUMBER IS STANDARD OR BETTER WESTERN RED CEDAR S4S (SURFACED FOUR SIDES).
2. ALL LUMBER SHALL BE BACK-PRIMED PRIOR TO ASSEMBLY. PRIMED AFTER ASSEMBLY, AND COATED WITH 2 COATS SOLID BODY PAINT TO MATCH HOUSE (BUILDING) TRIM. COORDINATE COLORS WITH ARCHITECT.
3. 2 X 4 STRINGERS MUST FACE OWNERS PROPERTY.

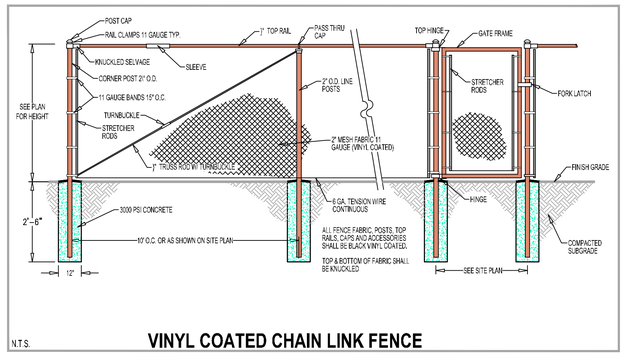
N.T.S. **6' HIGH WOOD SCREEN FENCE**



COLORS
SYMBOL - RED (REFLECTIVE)
BACKGROUND - WHITE (REFLECTIVE)

NOTE:
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.

DO NOT ENTER SIGN
N.T.S.



N.T.S. **VINYL COATED CHAIN LINK FENCE**

ALPHA SITE SET 08-08-2024

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Professional Seal

GEORGIA REGISTERED NO. PE024887 PROFESSIONAL ENGINEER JASON P. BROWN

Project Information

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COVINGTON, GA 30014
ZONING: AR

DRAWING DATE:	7/16/2024
DRAWN BY:	MSF
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:
7/16/24	1ST SUBMITTAL COMMENTS

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Sheet Title

SITE DETAILS

Sheet Number

C-8.0

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