

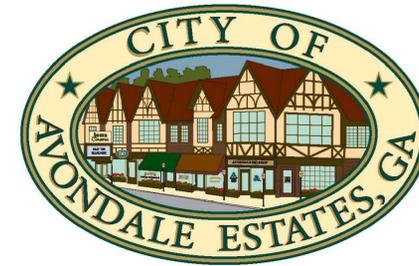
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10 SHEETS TOTAL

100-PCT CONSTRUCTION PLANS FOR: DUNWICK DRIVE PHASE II STORMWATER CONVEYANCE IMPROVEMENTS

SEPTEMBER 3, 2024



OWNER/PRIMARY PERMITTEE:

**CITY OF AVONDALE ESTATES
DEPARTMENT OF PUBLIC WORKS
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002
404-294-5400**

**CONTACT: KRISTIN MORETZ
KMORETZ@AVONDALEESTATES.ORG**

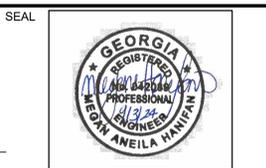
ENGINEER:

**MEGAN HANIFAN, PE
DEWBERRY
2951 FLOWERS ROAD SOUTH, SUITE 102
ATLANTA, GA 30341-5533
678.537.8645
678.530.0040 FAX**

24 HOUR EMERGENCY CONTACT:

**404.294.5400 (DISPATCH)
CITY OF AVONDALE ESTATES
PUBLIC WORKS
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002**

**DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
IMPROVEMENTS
CITY OF AVONDALE ESTATES
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002**



CITY APPROVAL

SCALE

NO.	DESCRIPTION	DATE
5	OWNER UPDATES	09/03/2024
4	ES&PC UPDATES	08/19/2024
3	100 PERCENT SUBMITTAL	07/08/2024
2	90 PERCENT SUBMITTAL	05/29/2024
1	60 PERCENT SUBMITTAL	03/07/2024

REVISIONS

DRAWN BY	JJ
APPROVED BY	SF
CHECKED BY	MH
DATE	09/03/2024

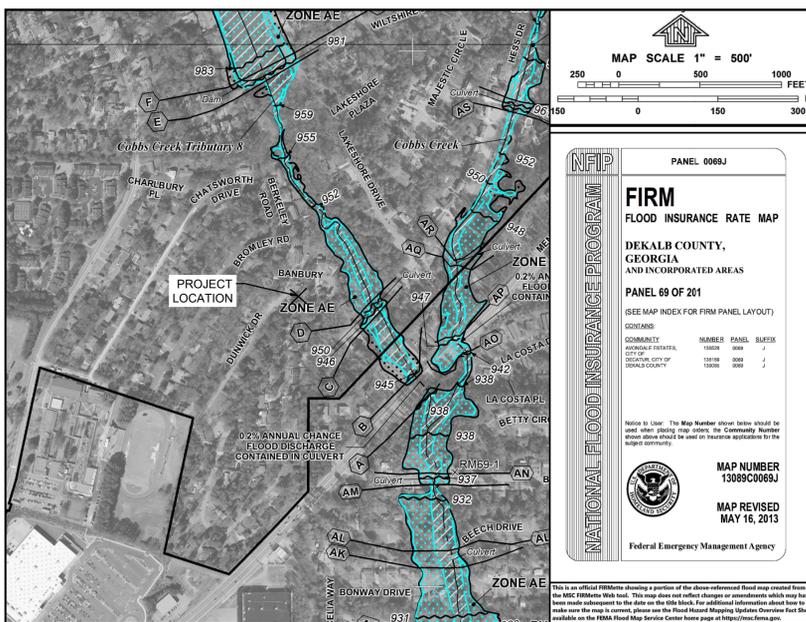
TITLE

COVER

PROJECT NO. 50169827

G-001

SHEET NO.

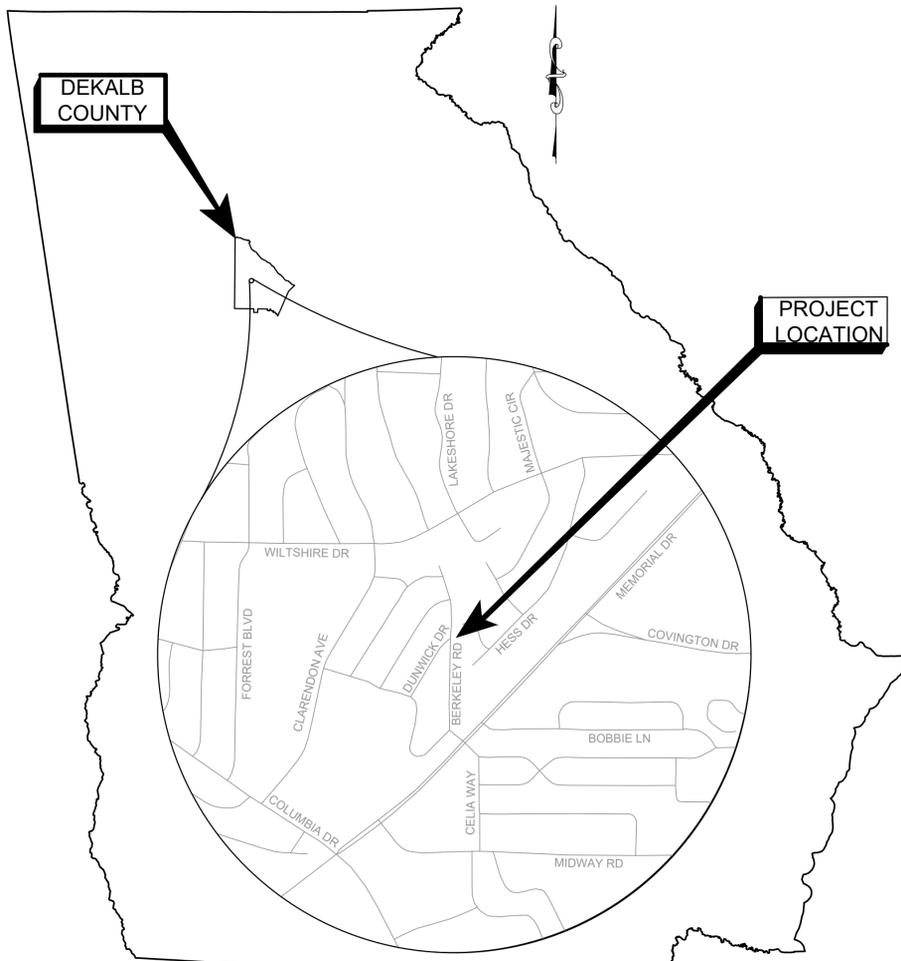


THERE IS NO DESIGNATED FLOODPLAIN ZONE ON THIS PROPERTY FROM A WATERCOURSE WITH A DRAINAGE AREA EXCEEDING 100 ACRES PER FIRM PANEL 13089C0069J DATED MAY 16, 2013.

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY DESCRIPTION	MONTH 1			MONTH 2		
	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
NTP TO CONTRACTOR	●					
PROJECT KICKOFF	●					
MOBILIZATION	■	■				
INSTALLATION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES	■	■				
MAINTENANCE OF E&S AND INTERMEDIATE PHASES	■	■	■	■	■	■
INSTALL STORMWATER CONDUITS AND STRUCTURES		■	■	■	■	
SITE RESTORATION				■	■	
FINAL STABILIZATION AND CLEANUP					■	■
REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES						■
SUBSTANTIAL COMPLETION/PUNCH LIST						■
FINAL COMPLETION						■

*NOTE - THE SCHEDULE SHOWN IS ANTICIPATED. ACTUAL ACTIVITY SCHEDULE MAY VARY FROM WHAT IS SHOWN.



**VICINITY MAP:
1:1000**

NOTES:

1. THIS PROJECT IS LOCATED 100% IN ZONING DISTRICT R-12
2. THIS PROJECT IS LOCATED 100% IN LAND DISTRICT 15.
3. THIS PROJECT IS LOCATED 79% IN LAND LOT 217 & 21% IN LAND LOT 218
4. THIS PROJECT IS LOCATED 100% IN CITY OF AVONDALE ESTATES, DEKALB COUNTY.
5. TOTAL DISTURBED AREA IS 0.32 ACRES
6. THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL COORDINATE SYSTEM OF NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 (FT), AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

UTILITY CONTACTS		
GAS SOUTHERN COMPANY GAS REGGIE TERRELL 10 PEACHTREE ST NE ATLANTA, GA 30309 404-584-34744	WATER & SEWER DEKALB COUNTY WATER & SEWER JEFFERY WOODS 4572 MEMORIAL DR DECATUR, GA 30032 770-612-7222	POWER GEORGIA POWER BRIAN GOLSON 823 JEFFERSON ST ATLANTA, GA 30318 404-506-4569
TELEPHONE AT&T DISTRIBUTION ANGELO HINES 725 PEACHTREE ST NE ATLANTA, GA 30308 770-784-3972	TELECOMMUNICATIONS GOOGLE FIBER GREG SPELL 1600 AMPHITHEATRE PKWY MOUNTAIN VIEW, GA 30403 470-242-4734	



Know what's below.
Call before you dig.

GENERAL NOTES

- DESCRIPTION: WORK PERFORMED BY THIS CONTRACT WILL INCLUDE REMOVING THE EXISTING RETAINING WALL AND REMOVING AND REPLACING THE EXISTING HEADWALL AT THE OUTLET OF THE LINED 42" STORM PIPE. NEW 42" REINFORCED CONCRETE PIPES AND DROP INLETS WILL BE INSTALLED. THE LIMITS OF LAND DISTURBANCE WILL BE CONTAINED WITHIN THE RIGHT OF WAY AND EASEMENTS. AT THE END OF EACH WORK DAY, ALL BACK-FILLING WILL BE COMPLETED AND ANY DISTURBED AREA WILL BE STABILIZED.
- EXISTING SITE CONDITIONS AND ADJACENT AREAS: THE PROJECT SITE IS ALONG A DRAINAGE DITCH BETWEEN PRIVATELY OWNED LAND LOTS AND IS VEGETATED WITH SOME WOODED AREAS. SLOPES VARY FROM GENTLE TO STEEP AND THE VEGETATION VARIES FROM OVERSTORY TREES TO SHRUBS TO GRASSES AND SOD.
- SINCE THE STREAM IS CLASSIFIED AS EPHEMERAL, NO PRE-CONSTRUCTION NOTIFICATION (PCN) WILL BE REQUIRED.
- SINCE THE STREAM IS CLASSIFIED AS EPHEMERAL, THE PROJECT WILL NOT REQUIRE A STREAM BUFFER VARIANCE AND APPROVAL FROM GEORGIA EPD.
- NO NOTIFICATION TO GEORGIA EPD IS REQUIRED FOR THIS STORMWATER CONVEYANCE IMPROVEMENT PROJECT.
- COBBS CREEK IS THE RECEIVING WATERS, AND THIS PROJECT IS LOCATED ON AN UNNAMED TRIBUTARY TO COBBS CREEK.
- THIS PROJECT IS LOCATED WITHIN 1 MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS A PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE CITY OF AVONDALE ESTATES SPECIFICATIONS AND GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, CURRENT EDITION, AND SUPPLEMENTS THERETO, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. ALL UTILITY FACILITIES WHICH ARE IN CONFLICT WITH CONSTRUCTION ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF THIS WORK.
- UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. MORE INFORMATION CAN BE FOUND AT THE GAUPEC.COM WEBSITE.
- GENERAL CONTRACTOR TO COORDINATE WITH UTILITY OWNERS EXISTING LOCATIONS OF FACILITIES AND PROPOSED WORK AROUND THESE FACILITIES. CONTRACTOR SHALL POT-HOLE TO VERIFY LOCATIONS. IF RELOCATION OF EXISTING FACILITIES IS NEEDED, COORDINATE RELOCATION WORK WITH UTILITY OWNER. COORDINATE LOSS OF SERVICE WITH UTILITY OWNERS AND CUSTOMERS.
- OVERHEAD UTILITIES ARE SHOWN SCHEMATICALLY ON THE DRAWINGS. SIZES, TYPES, VOLTAGE, HEIGHT OF CABLE, ETC. ARE NOT SHOWN/ THE CONTRACTOR SHALL COMPLY WITH THE GEORGIA HIGH VOLTAGE SAFETY ACT (OCGA 46-3-30 THROUGH 46-3-40). THE CONTRACTOR SHALL VISIT THE SITE AND NOTE THE CONDITIONS REGARDING OVERHEAD UTILITIES PRIOR TO SUBMITTING HIS/HER BID.
- ALL UTILITIES SHALL BE MAINTAINED DURING CONSTRUCTION.
- WORK ZONES WILL BE SET UP ACCORDING TO M.U.T.C.D. MANUAL.
- TYPE OF GRASS OR SOD USED ON THIS PROJECT WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED AND GROWING ON THE ADJACENT LAWN. I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA ETC. SEE PLANS FOR DELINEATION.
- INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES AND THE PARKING LOT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL.
- THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE CITY.
- HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM. SEE PLANS FOR LOCATIONS AND DESCRIPTIONS OF MONUMENTS USED.
- ALL DRIVEWAYS, WHERE ACCESS IS ALLOWED, SHALL BE PLACED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH RULES AND REGULATIONS FOR CONTROL AND PROTECTION OF CITY OF AVONDALE ESTATES RIGHTS-OF-WAY. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED, IN KIND, I.E. ASPHALT FOR ASPHALT AND CONCRETE FOR CONCRETE AND ASPHALT FOR EARTH. THE DRIVEWAY LOCATIONS INDICATED ON THE PLANS ARE FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS WHERE THEY ARE NOT IN CONFLICT WITH THE RULES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE OWNER/CITY PRIOR TO MAKING ANY REVISIONS SUCH AS TO LOCATION, WIDTH AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. ASPHALTIC AND UNPAVED DRIVEWAYS SHALL BE PAVED TO THEIR CONSTRUCTION LIMITS. WHERE REQUIRED, THE DRIVES SHALL BE PAVED AS FOLLOWS:

ASPHALTIC DRIVES	
RESIDENTIAL	1-1/2" RECY. ASPHALTIC CONCRETE, 9.5mm SUPERPAVE, GP 2 ONLY, INCL. BITUM. MAT'L & H. LIME 6" GRADED AGGREGATE BASE
COMMERCIAL	1-1/2" RECY. ASPHALTIC CONCRETE, 9.5mm SUPERPAVE, GP 2 ONLY, INCL. BITUM. MAT'L & H. LIME 2" RECY. ASPHALTIC CONC. 19mm SUPERPAVE, GP 1 OR 2. INCL. BITUM. MAT'L & H. LIME 8" GRADED AGGREGATE BASE

NOTE: IF THE PROJECT CONSISTS OF ROADWAY ASPHALT PAVING, USE THE SAME ASPHALT MIX DESIGN AS THE ROADWAY.

CONCRETE DRIVES	
RESIDENTIAL	6" CONCRETE VALLEY GUTTER 6" CONCRETE DRIVEWAY
COMMERCIAL	8" CONCRETE VALLEY GUTTER 8" CONCRETE DRIVEWAY

- THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
- CONTRACTOR SHALL MAINTAIN ACCESS TO FIRE PROTECTION APPURTENANCES (FIRE HYDRANTS AND VALVES).
- ALL RETAINING WALLS, LANDSCAPE WALLS AND SHORING OVER 4' HIGH SHALL BE DESIGNED AND SEALED BY A LICENSED GEORGIA PROFESSIONAL ENGINEER.
- STRUCTURE BASE UNITS MAY BE PRECAST, BRICK, CAST-IN-PLACE, OR A COMBINATION THEREOF. GENERAL CONTRACTOR TO DETERMINE SIZE AND CONFIGURATION OF STRUCTURE BASE UNITS.
- IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE GENERAL CONTRACTOR MUST NOTIFY THE OWNER IMMEDIATELY, AND SHALL NOT COMMENCE CONSTRUCTION UNTIL THE CONFLICTS OR DISCREPANCIES ARE RESOLVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF WATER TO INCLUDE BUT NOT LIMITED TO BYPASS PUMPING, DEWATERING, LOCALIZED DEWATERING TO CONTROL GROUNDWATER INFLOW, AND STREAM DIVERSION. COSTS FOR CONTROL OF WATER SHALL BE INCIDENTAL TO COST OF ALL BID ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.

- WHERE EXISTING PAVEMENT MARKINGS AND LINES ARE IN CONFLICT WITH THE TRAFFIC PATTERN BEING USED ON CONSTRUCTION, THE CONTRACTOR SHALL REMOVE OR OVERLAY LINES TO THE SATISFACTION OF THE OWNER SUCH THAT THE LINES DO NOT CONFUSE THE TRAVELING PUBLIC. ALL REMAINING LINES OR MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS DIRECTED BY THE OWNER. TRAFFIC SHALL NOT BE ALLOWED ON ANY PAVEMENT NOT PROPERLY STRIPED.
- STAGED CONSTRUCTION MAY BE REQUIRED IN ORDER TO MAINTAIN TRAFFIC THROUGHOUT THE PROJECT. THE CONTRACTOR MAY ELECT TO DESIGN HIS OWN STAGING PLAN. IF SO, THE CONTRACTOR'S STAGING PLAN MUST BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. ANY DEVIATION TO THE STAGE CONSTRUCTION PLANS, IF INCLUDED, SHALL BE APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION.
- AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL, HAUL AND PLACEMENT SHALL BE USED AT THE OWNER'S DIRECTION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER.
- SIDEWALK SLOPES SHALL BE ADJUSTED TO TIE IN SMOOTHLY WITH EXISTING DRAINAGE STRUCTURES.
- ORANGE BARRIER FENCE SHALL BE ADDED AROUND ALL TREES THAT ARE NOT TO BE DISTURBED.
- HANDICAP RAMPS SHALL BE CONSTRUCTED AT ALL POINTS WHERE SIDEWALK TERMINATES AT CURB OR IS BISECTED BY DRIVEWAYS, IF NECESSARY. THE EXACT TYPE OF RAMP (TERMINAL OR ON CURB RADIUS) MAY BE MODIFIED AS DIRECTED BY THE OWNER.
- CITY OF AVONDALE ESTATES DEPARTMENT OF PUBLIC WORKS, SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF ALL SIGNING, STRIPING, HANDICAP RAMP AND GUARDRAIL PLACEMENT. THE CONTRACTOR SHALL COORDINATE THIS ACTION WITH THE OWNER.
- ANY ADJUSTMENTS OR RELOCATIONS OF DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT'S FACILITIES SHALL BE IN ACCORDANCE WITH THE DEPARTMENT'S WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS, DETAILS, AND SPECIFICATIONS.
- UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE INSPECTOR, ALL WATER LINES SHALL HAVE A MINIMUM OF 48 INCHES OF COVER.
- THE SURVEY FOR THIS PROJECT WAS PREPARED BY TERRAMARK USING TOPOGRAPHIC FIELD SURVEYING METHODS.
- ALL STORM DRAIN WORK TO COMPLY WITH GDOT STANDARD DETAILS.
- ALL ROAD WORK TO COMPLY WITH DEKALB COUNTY CONSTRUCTION DETAILS.
- CONTRACTOR TO CONFIRM SANITARY SEWER, WATER LINE, AND STORM SEWER ELEVATIONS AND MAINTAIN A MINIMUM CLEARANCE FROM SANITARY SEWER OF 18", UNLESS SPECIFIED BY THE OWNER.
- WORK ON SANITARY SEWER LINES AND WATER LINES SHALL BE CLOSELY COORDINATED WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT.
- MAXIMUM SLOPE FOR CUT OR FILL IS 2H:1V EXCEPT EARTHEN DAM EMBANKMENTS SHALL BE 3H:1V.
- ALL RCP PIPE JOINTS SHALL BE BELL & SPIGOT TYPES WITH A RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M-170 AND/OR ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH ASTM C-507. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
- NOTIFY CITY OF AVONDALE ESTATES PUBLIC WORKS DEPARTMENT 24 HOURS BEFORE THE BEGINNING OF EVERY PHASE OF CONSTRUCTION, 404-294-5400.
- GEOTEXTILE FILTER FABRIC TO BE PLACED BETWEEN FOUNDATION BACKFILL MATERIAL TYPE II AND EMBANKMENT/SUBGRADE MATERIALS.
- FILL TO BE COMPACTED IN 4-6 INCH MAXIMUM LIFTS. WHERE THERE ARE EXISTING SLOPES, BENCHES ARE TO BE EXCAVATED TO KEY FILL INTO EXISTING SLOPE. THE CONTRACTOR SHALL MILL VARIABLE DEPTH TO ENSURE SMOOTH TRANSITIONS AT THE TIE-IN POINTS.
- ANY SALVAGEABLE MATERIAL BELONGS TO THE CITY OF AVONDALE ESTATES. COORDINATION BY THE CONTRACTOR WITH THE CITY OF AVONDALE ESTATES STAFF WILL BE REQUIRED AT LEAST 48 HOURS IN ADVANCE OF REMOVAL OF SALVAGEABLE MATERIAL. UPON COORDINATION, THE DELIVERY ADDRESS AND CONTACT INFORMATION WILL BE PROVIDED.
- THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENTS STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) OCCUR UNDER THE DROP LINE OF EXISTING TREES TO REMAIN IN THE RIGHT OF WAY. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION.

OUTFALL LOCATION(S)	Basin Name	Reach Name	LOCATION OF THE IMPAIRED STREAM SEGMENT AS INDICATED IN THE 305b/303d LIST	CRITERIA VIOLATED (BIO F OR BIO M)	POTENTIAL CAUSE (NP OR UR)	CATEGORY (4a, 4b, OR 5)
LAT: 33.76 LONG: -84.28 EX: 54 CMP HW	COMULGEE	COBBS CREEK	JUST UPSTREAM OF HESS DRIVE	BIO F	UR	4a

INCIDENTAL ITEMS

- THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECT TO DUST FORMATION MUST BE PERIODICALLY WATERED, SUFFICIENT TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCIDENTAL TO THE CONTRACT.
- AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWEED ON A LINE ESTABLISHED BY THE OWNER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE. COSTS FOR SAWEED JOINTS, WHEN REQUIRED, ARE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR REGRADING AS REQUIRED BY THE OWNER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- ANY OVER-EXCAVATION FOR THE CONVENIENCE OF THE CONTRACTOR AND ADDITIONAL STONE USED TO STABILIZE SUBGRADE BEYOND TYPICAL LIMITS SHOWN ON THE BEDDING DETAILS WILL BE CONSIDERED INCIDENTAL UNLESS AUTHORIZED BY THE OWNER.
- CONTRACTOR TO REPAIR ANY SEPTIC AND/OR IRRIGATION LINES AND APPURTENANCES DAMAGED AS A RESULT OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR DAMAGE TO SEPTIC AND/OR IRRIGATION LINES AND APPURTENANCES NOT ILLUSTRATED ON THE CONSTRUCTION PLANS.
- CONSTRUCTION LAYOUT WILL BE REQUIRED BY THE CONTRACTOR AND IS INCIDENTAL TO THE CONTRACT.

GEORGIA D.O.T. STANDARDS AND CONSTRUCTION DETAILS		
STANDARD DRAWING NO.	REVISION DATE	DESCRIPTION
1011A	10/1981	BRICK MANHOLES

EROSION CONTROL NOTES

- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
- IF FINES OR PENALTIES ARE LEVIED AGAINST THE PROPERTY OR THE PROPERTY OWNER BECAUSE OF A LACK OF EROSION OR SEDIMENTATION CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF SUCH FINES OR PENALTIES, OR THE COST OF SUCH FINES OR PENALTIES SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT.
- EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR WHERE DETERMINED NECESSARY BY LOCAL AUTHORITIES OR THE ENGINEER BASED UPON ACTUAL SITE CONDITIONS.
- EROSION CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE DRAWINGS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE DRAINAGE PATTERNS SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ADDITIONAL SEDIMENT BARRIERS WILL BE PLACED AS REQUIRED BY INSPECTOR.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS SHALL BE KEPT TO A MINIMUM & REMOVED BY THE END OF THE DAY.
- ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) WILL BE INSPECTED DAILY, AND ANY DEFICIENCIES WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION CONTROL BMPs WILL BE INSTALLED IF DEEMED NECESSARY BY OR BY INSPECTION OF THE ISSUING AUTHORITY.
- SEDIMENT CONTROL MEASURES WILL BE MAINTAINED UNTIL ALL UPSTREAM DISTURBED GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/PARKING HAVE BEEN PAVED.
- CONTRACTOR SHALL INSPECT AND REPAIR EROSION CONTROL MEASURES AT LEAST DAILY AND PRIOR TO EACH ANTICIPATED RAINFALL.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT FROM SEDIMENT BARRIERS AND CHECK DAMS WHICH BECOME SILTED ABOVE ONE-HALF OF THEIR ORIGINAL HEIGHT.
- ALL AREAS TO BE PAVED SHALL BE STABILIZED WITH BASE MATERIAL AS SOON AS PRACTICAL. TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION SHALL BE PROVIDED IMMEDIATELY AFTER REACHING FINAL GRADE FOR ALL AREAS NOT TO BE PAVED.
- WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE, THE CONTRACTOR SHALL NOT DEPOSIT ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC. IN THE DRAINAGE COURSE OR ASSOCIATED FLOOD PLAIN.
- 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 FROM THE ISSUING AUTHORITY.
- ALL CUT AND FILL SLOPES SHALL BE GRASSED AS DIRECTED BY THE OWNER IMMEDIATELY AFTER THE SLOPES ARE ESTABLISHED IN ORDER TO REDUCE EROSION. IF THE SEASON DOES NOT PERMIT GRASSING, TEMPORARY MULCH SHALL BE USED AS DIRECTED BY THE OWNER.
- TEMPORARY EROSION CONTROL QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY OR BY INSPECTION OR AS DIRECTED BY THE OWNER.
- ALL SILT FENCES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT FENCE INSTALLATION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SILT FENCES AND TO REPAIR OR REPLACE ANY SILT FENCE THAT IS NOT SATISFACTORY. EROSION CONTROL CHECK DAMS OR FILTER RINGS SHALL BE PLACED IMMEDIATELY AFTER DRAINAGE STRUCTURES ARE IN PLACE. ALL EROSION CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE PLANS AND AS DIRECTED BY THE OWNER. SEE THE GDOT STANDARD SPECIFICATIONS REGARDING EROSION CONTROL AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL BY G.S.W.C.C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING WETLAND AREAS FREE FROM SILTATION. THE CONTRACTOR SHALL OBTAIN AND ABIDE BY ALL CORPS OF ENGINEERS RULES AND REGULATIONS CONCERNING CONSTRUCTION ADJACENT TO WATERWAYS AND MAINTAIN WATER QUALITY.

SOIL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACT, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACT, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 60 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.
- SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE CONTRACTOR'S SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE AT LEAST ONE OTHER SITE PERSON WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THIS INDIVIDUAL WILL BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE (OR DESIGNATED ONSITE JOB LOCATION).

PRODUCT SPECIFIC PRACTICES

- PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. NO WATER FROM WASHING OFF TOOLS OR SHOES WILL LEAVE THE SITE OR DRAIN ONTO UNDISTURBED AREAS.
- FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
- BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF USING PROPER WASTE DISPOSAL PROCEDURES.



DEWBERRY ENGINEERS INC.
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DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
IMPROVEMENTS
CITY OF AVONDALE ESTATES
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002



CITY APPROVAL

SCALE

NO.	DESCRIPTION	DATE
5	OWNER UPDATES	09/03/2024
4	ESSPC UPDATES	08/19/2024
3	100 PERCENT SUBMITTAL	07/08/2024
2	90 PERCENT SUBMITTAL	05/29/2024
1	60 PERCENT SUBMITTAL	03/07/2024

REVISIONS

DRAWN BY	JJ
APPROVED BY	SF
CHECKED BY	MH
DATE	09/03/2024

TITLE

GENERAL NOTES (1)

PROJECT NO. 50169827



C-001

Know what's Below.
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SHEET NO.

12/20/2016 9:07:15 AM P:\1016827_DUNWICK\DRIVEDESIGN\CADD\DUNWICK_COVER.DWG

E

D

C

B

A

DESCRIPTION	EXISTING	NEW	DESCRIPTION	EXISTING	NEW	DESCRIPTION	EXISTING	NEW
CURB AND GUTTER (C&G)			STAND PIPE			OVERHEAD POWER LINE		
STORM DRAIN LINE			UNDERGROUND POWER BOX			UNDERGROUND POWER LINE		
CATCH BASIN (DWCB)			ELECTRIC BOX			UNDERGROUND COMMUNICATION		
CATCH BASIN (SWCB)			TRANSFORMER			CABLE TV		
DROP INLET (DI)			UNDERGROUND ELECTRIC MANHOLE			WATER		
JUNCTION BOX (JB)			HAND HOLE			SANITARY SEWER		
HEAD WALL (HW)			GUY WIRE ELECTRIC			GAS		
CURB INLET (CI)			METER POWER			PETROLEUM		
FLARED END SECTION (FES)			POLE/UTILITY			TRAFFIC CONTROL		
OUTLET CONTROL STRUCTURE			SIGNAL HEAD			GAS LINE (APPROXIMATE)		
YARD DRAIN INLET			TELEPHONE MANHOLE			UNDERGROUND POWER (APPROXIMATE)		
SS MANHOLE (MH)			TELEPHONE TERMINAL BOX			UNDERGROUND TELEPHONE (APPROXIMATE)		
CLEAN OUT (CO)			TRAFFIC SIGNAL BOX			WATER LINE (APPROXIMATE)		
IRRIGATION CONTROL VALVE (ICV)			TRAFFIC SIGNAL POLE			CHAIN LINK FENCE		
FIRE HYDRANT (FH)			UNDERGROUND CABLE TV			WOOD FENCE		
WATER VALVE (WV)			UNDERGROUND TELEPHONE BOX			WOVEN WIRE FENCE		
WATER METER (WM)			SPLICE BOX			FLOODPLAIN		
FIRE DEPT. CONNECTION (FDC)			SUBSCRIBER LOOP			25' STREAM BUFFER		
WATER VALVE MARKER			CARRIER CABINET			50' STREAM BUFFER		
AIR CONDITIONER (AC)			PHONE BOOTH			STORM EASEMENTS		
ELECTRIC UTILITY			CABLE TV PEDESTAL			SANITARY SEWER EASEMENTS		
GREASE TRAP (GT)			GAS MANHOLE			GUARDRAIL		
LIGHT POLE (LP)			GAS PRESSURE REGULATOR			CONTOUR LINES		
POWER POLE WITH LIGHT			GAS VAULT			CONSTRUCTION LIMITS		
UTILITY MANHOLE (UM)			GAS TEST STATION			EDGE OF PAVEMENT		
SPOTLIGHT			PETROLEUM VALVE			PROPERTY LINE		
GAS VALVE (GV)			GAS FILL CAP			HANDRAIL		
TELEPHONE PEDESTAL			GAS METER					
COMMUNICATION BOX			GAS VALVE					
TRAFFIC SIGNAL			UTILITY GRATE					
BOLLARD (BO)			UTILITY MARKER					
MAIL BOX			HARDWOOD TREE					
SIGN			PINE TREE					
CROSSWALK SIGNAL			CITY LIMITS LINE					
SPOT ELEVATION			LIMITED ACCESS					
CONCRETE AREA			CENTER OF CREEK					
OVERHANG AREA								
RIP-RAP AREA								
BRICK AREA								
TREELINE								

ABBREVIATIONS

A	ARC LENGTH	IPS	IRON PIN SET (CAPPED)
AC.	ACRE	N/F	NOW OR FORMERLY
AE	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PB.	PLAT BOOK
BW	BARBWIRE	PG.	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CTP	CRIMP TOP PIPE	RB	REBAR
DB.	DEED BOOK	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	SDE	STORM DRAINAGE EASEMENT
FDC	FIRE DEPARTMENT CONNECTION	SQ. FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

TREE LEGEND (ABBREVIATIONS)

	DECIDUOUS (TREE)	BIR	BIRCH	HLY	HOLLY
	CONIFEROUS (TREE)	BCH	BEECH	HW	HARDWOOD
	SHRUB	CM	CRAPE MYRTLE	JM	JAPANESE MAPLE
		CHY	CHERRY	MAG	MAGNOLIA
		CYP	CYPRESS	MAP	MAPLE
		FIR	FIR	OAK	OAK
		GINGKO	GINGKO	ORN	ORNAMENTAL
		GUM	SWEET GUM	POP	POPLAR
		HIC	HICKORY	SYC	SYCAMORE

SEAL



CITY APPROVAL

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REVISIONS

DRAWN BY	JJ
APPROVED BY	SF
CHECKED BY	MH
DATE	09/03/2024

TITLE

GENERAL NOTES (2)

PROJECT NO. 50169827

C-002

SHEET NO.



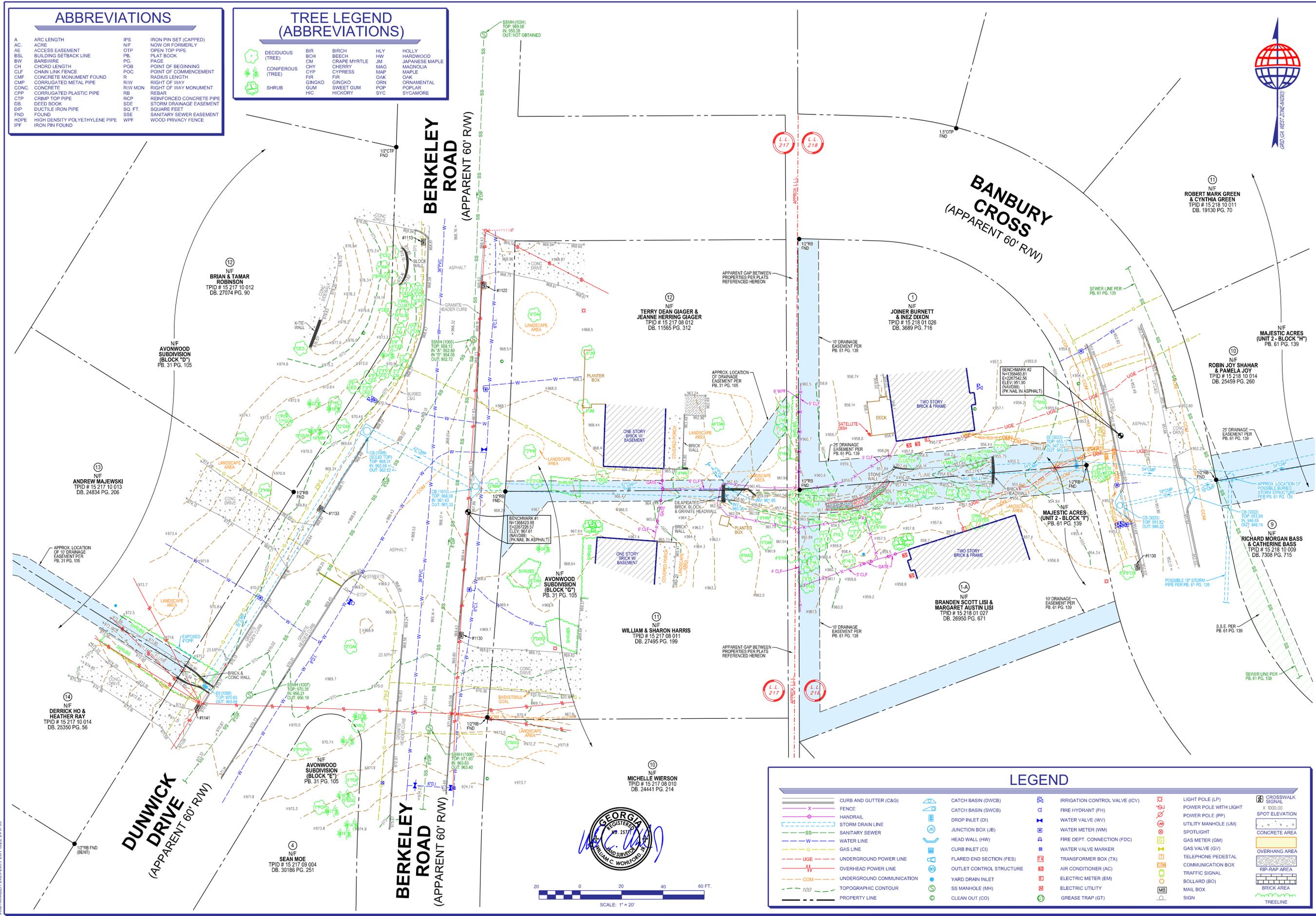
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ABBREVIATIONS

A	ARC LENGTH	IFS	IRON PIN SET (CAPPED)
AC	ACRE	NIF	NOW OR FORMERLY
AE	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PB	PLAT BOOK
BW	BARB WIRE	PG	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CPP	CORRUGATED PLASTIC PIPE	REBAR	REINFORCED CONCRETE PIPE
CTP	CRIMP TOP PIPE	RCP	REINFORCED CONCRETE PIPE
DB	DEED BOOK	SDE	STORM DRAINAGE EASEMENT
DIP	DUCTILE IRON PIPE	SD. FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

TREE LEGEND (ABBREVIATIONS)

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	CONIFEROUS (TREE)	BCH	BEECH	HW	HARDWOOD
	SHRUB	CM	CRAPE MYRTLE	JM	JAPANESE MAPLE
		CHY	CHERRY	MAG	MAGNOLIA
		CYP	CYPRESS	MAP	MAPLE
		PIR	PINE	OAK	OAK
		GIN	GINGKO	ORN	ORNAMENTAL
		GUM	SWEET GUM	POP	POPLAR
		HIC	HICKORY	SYC	SYCAMORE



Phone No. (770) 424-1827
www.TerraMark.com
C. O. A. # LSF000819

TerraMark Land Surveying, Inc.
1598 Balls Ferry Road
Marietta, Georgia 30066

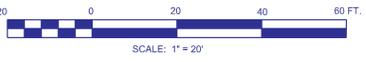
Project No.	No.	Date	Revision
2022-295	1	07/15/2024	ADDRESSED CLIENT'S COMMENTS
	2		
	3		
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	9		
	10		

PARTIAL TOPOGRAPHIC SURVEY FOR
DEWBERRY ENGINEERS INC.
(DUNWICK DRIVE AT BERKELEY ROAD)
LOCATED IN
LAND LOTS 217 & 218, 15TH DISTRICT
CITY OF AVONDALE ESTATES, DEKALB COUNTY, GEORGIA

SHEET NO.
2/2
DRAWING# TM 23-295

LEGEND

	CURBS AND GUTTER (C&G)		CATCH BASIN (DWCB)		IRRIGATION CONTROL VALVE (ICV)		LIGHT POLE (LP)		CROSSWALK SIGNAL
	FENCE		CATCH BASIN (SWCB)		FIRE HYDRANT (FH)		POWER POLE WITH LIGHT		SPOT ELEVATION
	HANDRAIL		DROP INLET (DI)		WATER VALVE (WV)		UTILITY MANHOLE (UM)		CONCRETE AREA
	STORM DRAIN LINE		JUNCTION BOX (JB)		WATER METER (WM)		SPOTLIGHT		GAS METER (GM)
	SANITARY SEWER		HEAD WALL (HW)		FIRE DEPT. CONNECTION (FDC)		GAS VALVE (GV)		TELEPHONE PEDESTAL
	WATER LINE		CURB INLET (CI)		TRANSFORMER BOX (TX)		COMMUNICATION BOX		TRAFFIC SIGNAL
	GAS LINE		FLARED END SECTION (FES)		AIR CONDITIONER (AC)		BOLLARD (BO)		MAIL BOX
	UNDERGROUND POWER LINE		OUTLET CONTROL STRUCTURE		ELECTRIC METER (EM)		SIGN		RIP-RAP AREA
	OVERHEAD POWER LINE		YARD DRAIN INLET		SS MANHOLE (MH)		BRICK AREA		TREELINE
	UNDERGROUND COMMUNICATION		CLEAN OUT (CO)						
	100' TOPOGRAPHIC CONTOUR								
	PROPERTY LINE								



JOB NUMBER 2023-295 PLOT SIZE 24 X 36

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APPROX LOCATION OF DRAINAGE EASEMENT PER PB. 51 PG. 105



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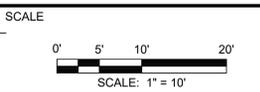
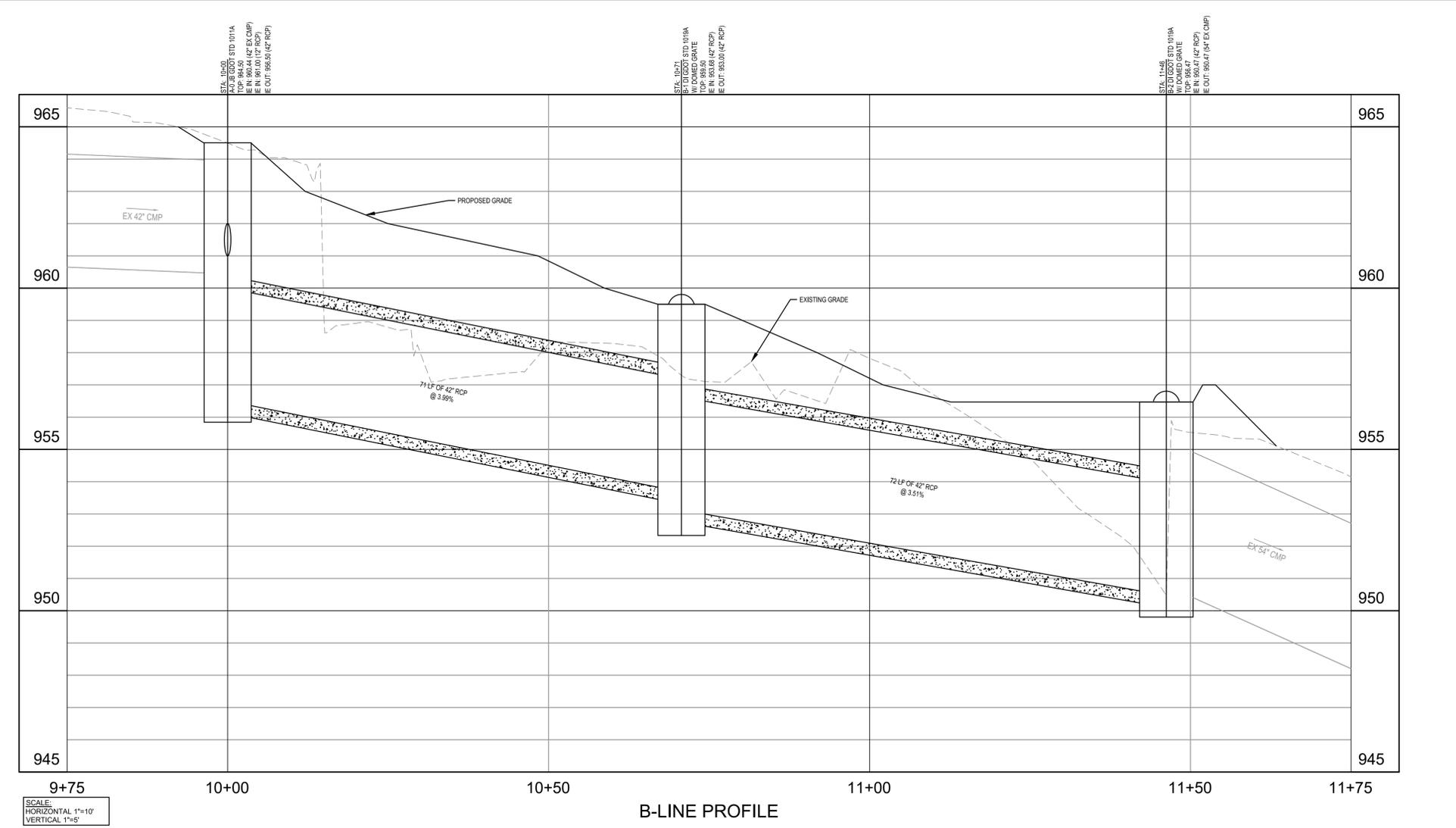
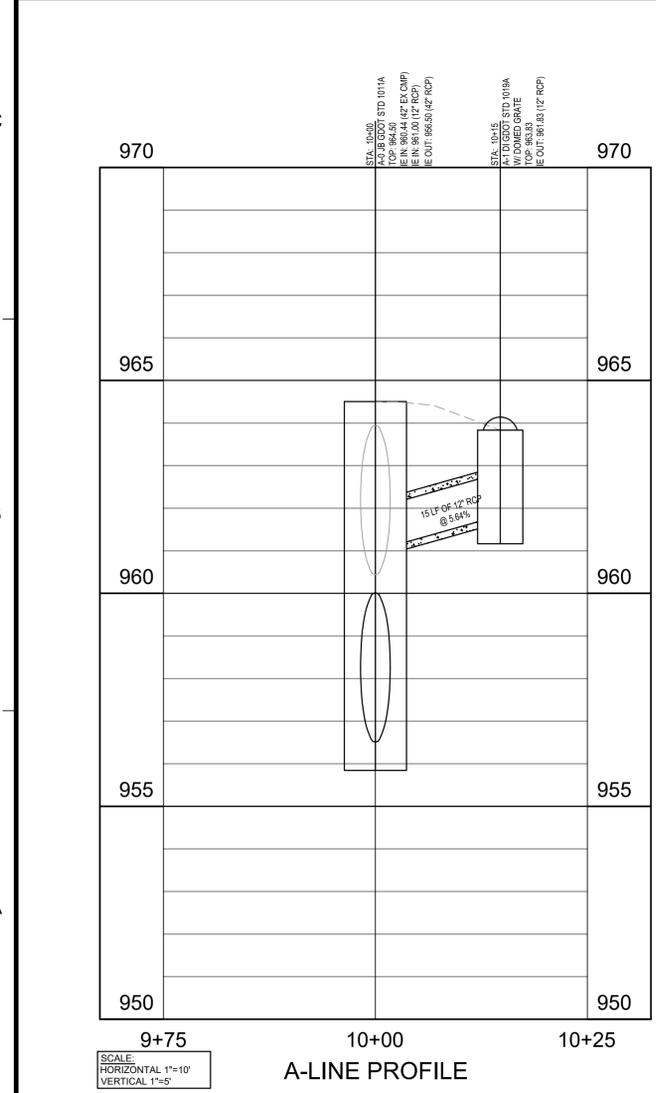
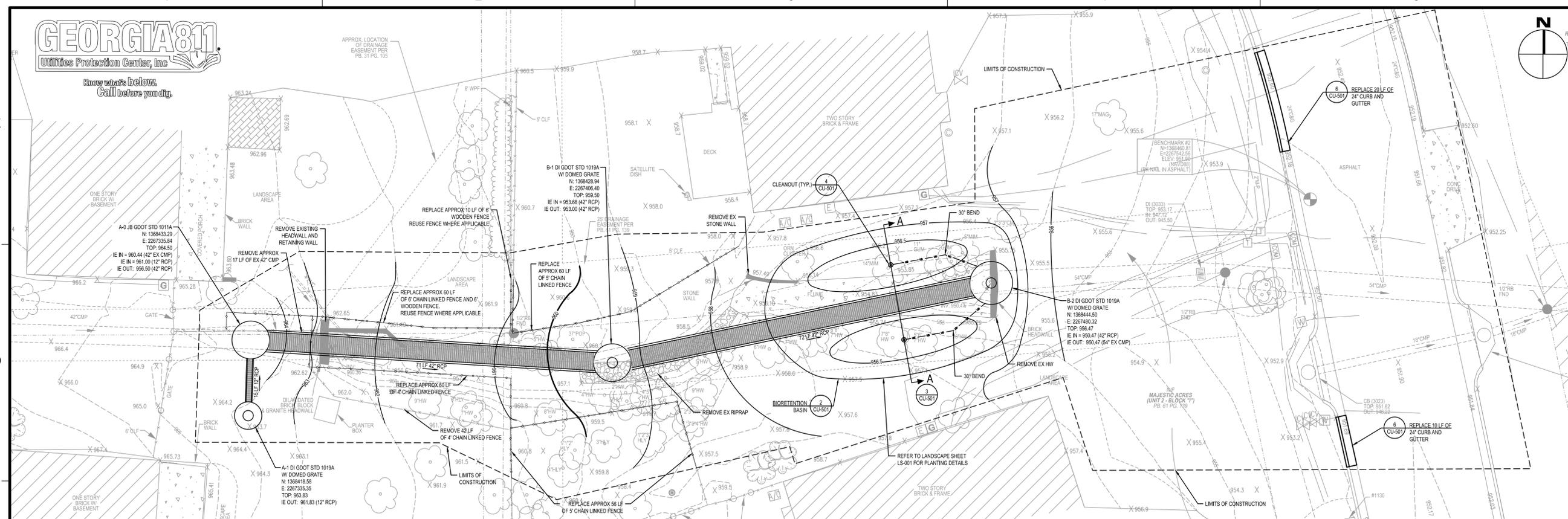
**DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
IMPROVEMENTS**

CITY OF AVONDALE ESTATES
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002

SEAL



CITY APPROVAL



NO.	DESCRIPTION	DATE
5	OWNER UPDATES	09/03/2024
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1	60 PERCENT SUBMITTAL	03/07/2024

REVISIONS

DRAWN BY _____ JJ
APPROVED BY _____ SF
CHECKED BY _____ MH
DATE _____ 09/03/2024

TITLE

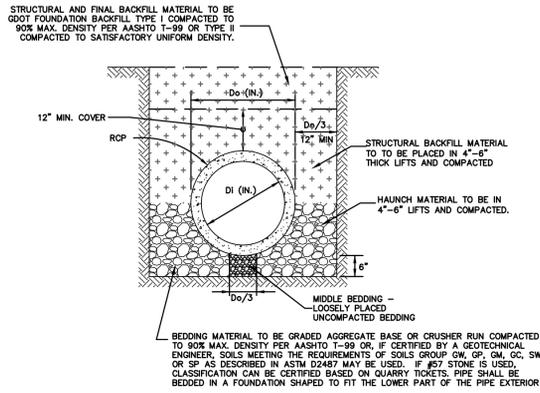
**PLAN AND
PROFILE**

PROJECT NO. 50169827

CU-101

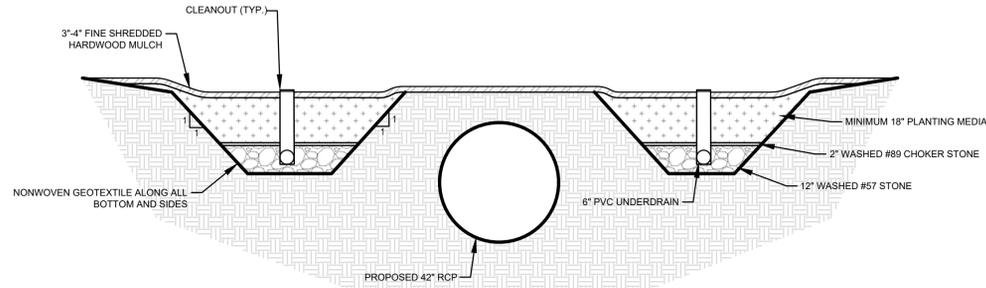
SHEET NO.

STANDARD PIPE BEDDING AND BACKFILL DETAIL



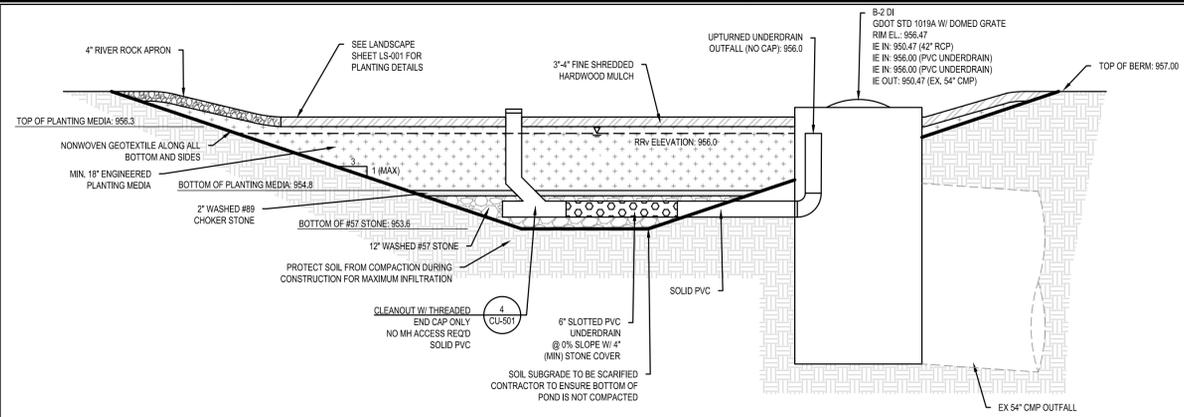
- GENERAL NOTES:**
- TRENCH BOTTOMS SHOULD BE FREE OF LARGE STONES, CLUMPS OF SOIL, FROZEN SOIL AND DEBRIS. WHERE AN INCOMPRESSIBLE FOUNDATION EXISTS, EXCAVATE AN ADDITIONAL 6". WHERE AN UNSTABLE FOUNDATION IS ENCOUNTERED, EXCAVATE AN ADDITIONAL DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER AND BACKFILL WITH GDOT FOUNDATION BACKFILL TYPE II.
 - GROUNDWATER MAY CAUSE MIGRATION OF FINES WHEN COARSE AND OPEN-GRADED MATERIAL IS PLACED ADJACENT TO A FINER MATERIAL. USE GEOTEXTILE FILTER FABRIC TO MINIMIZE SUCH MIGRATION.
 - BELL HOLES SHALL BE EXCAVATED IN THE BEDDING WHEN INSTALLING PIPE WITH EXTENDED BELLS SO THAT THE PIPE IS SUPPORTED BY THE BARREL AND NOT BY THE BELLS.
 - ALL JOINTS SHALL BE WRAPPED WITH PLASTIC POLYLINER.
 - PIPE LINE ITEM INCLUDES ALL ITEMS SHOWN IN DETAIL.

1 STANDARD BEDDING AND BACKFILL DETAIL FOR RCP
CU-501 SCALE: NTS



SECTION A-A

3 BIORETENTION SECTION VIEW
CU-501 SCALE: NTS



BIORETENTION PLANTING MEDIA MIX NOTE:

THE SOIL MIXTURE FOR USE IN A BIORETENTION FACILITY SHALL CONTAIN 60% SAND, 30% TOPSOIL CONTENT, AND 10% ORGANIC MATERIAL (COMPOST, TOPSOIL) AND HAVE A PERMEABILITY (K) RATING FROM 2 INCH/HOUR TO 4 INCH/HOUR AS MEASURED IN THE FIELD. PERMEABILITY TEST RESULTS MUST BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO INSTALLATION OF MATERIAL. THE SOIL SHOULD HAVE A pH BETWEEN 5.5 TO 6.5 AND THE CLAY CONTENT OF THE SOIL MIXTURE CANNOT EXCEED 15%. SOIL MUST NOT BE INSTALLED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND APPROVED BY THE ENGINEER. SOIL MIXTURES SHALL BE INSTALLED IN 8 TO 12 INCH LIFTS TO ENSURE ADEQUATE FILTRATION AND SHALL BE LIGHTLY BOOT COMPACTED.

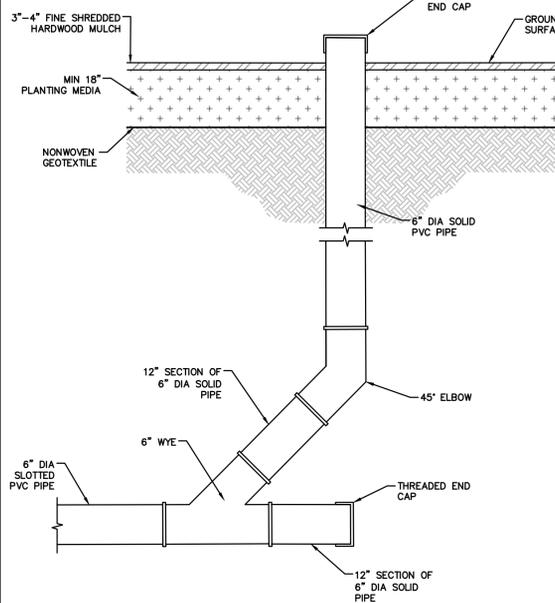
CONSTRUCTION NOTES:

- INSTALL EROSION CONTROL MEASURES AND TREE PROTECTION. THE CONTRACTOR MAY MODIFY OR RELOCATE EROSION CONTROL MEASURES TO MAKE ADJUSTMENTS FOR UNFORESEEN FIELD CONDITIONS. ALL RELOCATION SHALL HAVE THE APPROVAL OF THE ENGINEER.
- CLEAR AND GRUB AREA OF ALL TRASH AND EXOTIC/INVASIVE VEGETATION.
- APPROXIMATE STOCKPILE AREAS MAY BE RELOCATED OR ADJUSTED WITH THE APPROVAL OF THE ENGINEER.
- INSTALL EROSION CONTROL MAT PER MANUFACTURER'S INSTRUCTION.
- INSTALL PLANTS AS DESCRIBED IN PLANTING NOTES ON SHEET LS-001

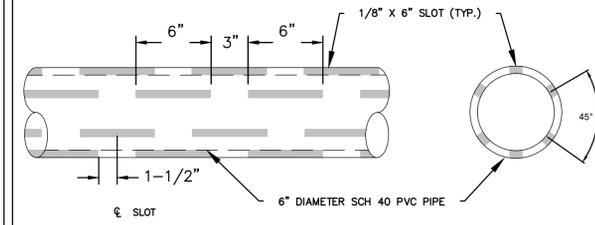
NOTES:

- CONTRACTOR SHALL INSTALL THE BIORETENTION AREA ONCE UPSTREAM DRAINAGE IS STABILIZED. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PREVENT EROSION FROM ENTERING INTO THE BIORETENTION SOIL MIX DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS OF THE PLANTING SOIL MIX AND WASHED SAND TO VERIFY SPECIFICATIONS ARE MET.
- CONTRACTOR SHALL PERFORM TWO FIELD TESTS OF THE BIORETENTION MEDIUM POST-CONSTRUCTION TO ENSURE THAT THE INFILTRATION RATE OF THE BIORETENTION MEDIUM IS 2 INCHES PER HOUR OR GREATER.

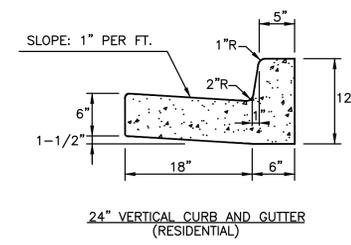
2 BIORETENTION
CU-501 SCALE: NTS



4 CLEANOUT
CU-501 SCALE: NTS



5 SLOTTED PVC UNDERDRAIN
CU-501 SCALE: NTS



- NOTES:**
- ALL CURB AND GUTTER CONCRETE SHALL BE CLASS A 3000 PSI.

6 24\"/>



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REVISIONS

DRAWN BY	JJ
APPROVED BY	SF
CHECKED BY	MH
DATE	09/03/2024

TITLE

DETAILS

PROJECT NO. 50169827

CU-501

SHEET NO.



Soil Map—DeKalb County, Georgia

SOIL SERIES LEGEND			
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC GROUP	SLOPE
CuC	Cecil sandy loam	B	6 to 10 percent slopes
PuE	Pacolet-Urban land complex	B	10 to 25 percent slopes

Natural Resources Web Soil Survey National Cooperative Soil Survey



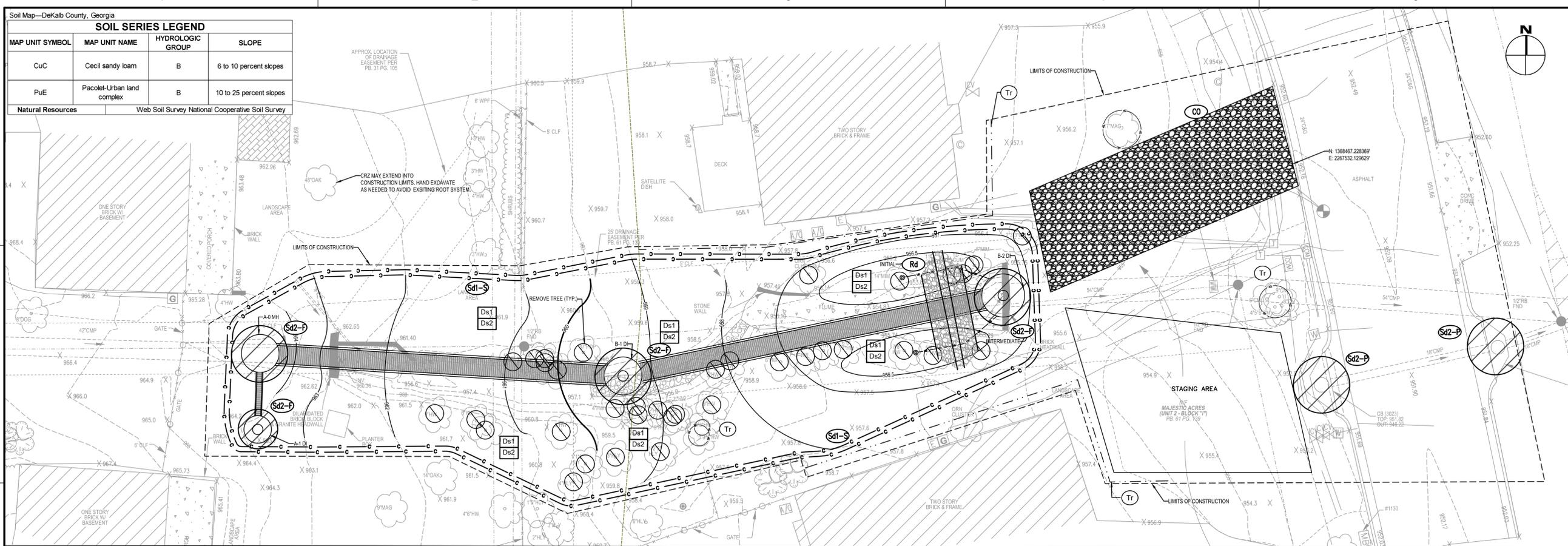
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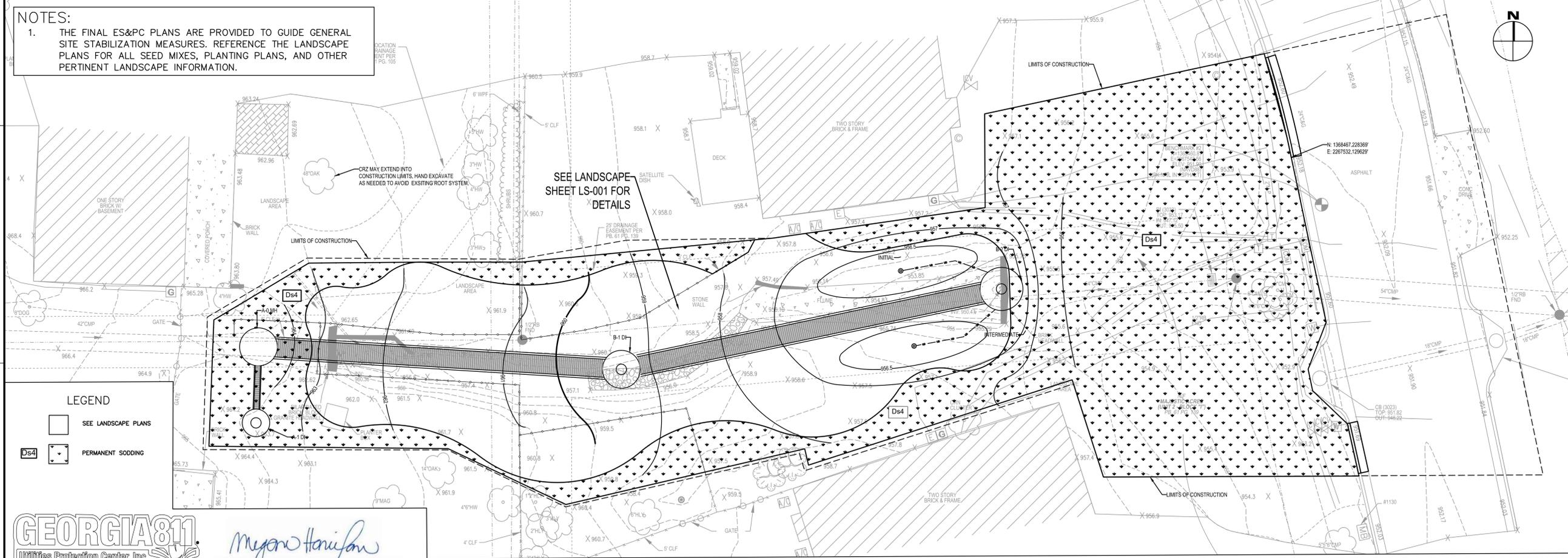


CITY APPROVAL

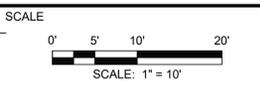


ES & PC: INITIAL AND INTERMEDIATE

NOTES:
1. THE FINAL ES&PC PLANS ARE PROVIDED TO GUIDE GENERAL SITE STABILIZATION MEASURES. REFERENCE THE LANDSCAPE PLANS FOR ALL SEED MIXES, PLANTING PLANS, AND OTHER PERTINENT LANDSCAPE INFORMATION.



ES & PC: FINAL



NO.	DESCRIPTION	DATE
5	OWNER UPDATES	09/03/2024
4	ES&PC UPDATES	08/19/2024
3	100 PERCENT SUBMITTAL	07/08/2024
2	90 PERCENT SUBMITTAL	05/29/2024
1	60 PERCENT SUBMITTAL	03/07/2024

REVISIONS

DRAWN BY: JJ
APPROVED BY: SF
CHECKED BY: MH
DATE: 09/03/2024

TITLE

ES&PC PLAN

PROJECT NO. 50169827

EC-101

SHEET NO.



Megan Hanifan
MEGAN HANIFAN, PE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWCC CERTIFICATION NO. 86325
EXPIRES 01/08/2025

UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
 GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Sd1-S	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	50-100 LBS/AC 1/2/30
	SECOND MAINTENANCE	6-12-12	1000 LBS/AC	-
	THIRD MAINTENANCE	10-10-10	400 LBS/AC	-
2. COOL SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	0-50 LBS/AC 1/30
	SECOND MAINTENANCE	0-10-10	1000 LBS/AC	-
	THIRD MAINTENANCE	0-10-10	400 LBS/AC	-
3. GROUND COVERS	FIRST MAINTENANCE	10-10-10	1300 LBS/AC 3/1100 LBS/AC	-
	SECOND MAINTENANCE	10-10-10	1300 LBS/AC 3/1100 LBS/AC	-
	THIRD MAINTENANCE	10-10-10	1300 LBS/AC 3/1100 LBS/AC	-
4. SHRUBS LESPEDEZA	FIRST MAINTENANCE	0-10-10	700 LBS/AC	-
	SECOND MAINTENANCE	0-10-10	700 LBS/AC 4/	-
5. TEMPORARY COVER CROPS SEEDED ALONE	FIRST MAINTENANCE	10-10-10	500 LBS/AC	30 LBS/AC 5/
6. WARM SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	50-100 LBS/AC 2/6/30
	SECOND MAINTENANCE	6-12-12	800 LBS/AC	-
	THIRD MAINTENANCE	10-10-10	400 LBS/AC	-
7. WARM SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	50 LBS/AC 6/
	SECOND MAINTENANCE	0-10-10	1000 LBS/AC	-
	THIRD MAINTENANCE	0-10-10	400 LBS/AC	-

MULCHING RATES:
 1. DRY STRAW: 2 TONS PER ACRE.
 2. DRY HAY: 2-1/2 TONS PER ACRE.
 3. FOR HYDRAULIC SEEDING USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE.
 4. APPLY IN SPRING FOLLOWING SEEDING.
 5. APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
 6. APPLY IN 3 SPLIT APPLICATIONS.
 7. APPLY WHEN PLANTS ARE PRUNED.
 8. APPLY TO GRASS SPECIES ONLY.
 9. APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

FERTILIZER AND MULCHING REQUIREMENTS
 SCALE:NTS E41

SPECIES	BROADCAST		RESOURCE AREA	PLANTING DATES												REMARKS	
	PER ACRE	PER 1000 SF		J	F	M	A	M	J	J	A	S	O	N	D		
BARLEY ALONE IN MIXTURE	144 LBS 24 LBS	3.3 LBS 0.6 LBS	M-L P C														14,000 SEED PER POUND WINTER HARDY. USE ON PRODUCTIVE SOILS
MILLET, BROWN TOP ALONE IN MIXTURE	40 LBS 10 LBS	0.9 LBS 0.2 LBS	M-L P C														137,000 SEED PER POUND, QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES
RYE ALONE IN MIXTURE	3 BU 1/2 BU	3.9 LBS 0.6 LBS	M-L P C														18,000 SEED PER POUND, QUICK COVER. DROUGHT TOLERANT AND WINTER HARDY
RYEGRASS, ANNUAL ALONE	40 LBS	0.9 LBS	M-L P C														227,000 SEED PER POUND, DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.

M-L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
 C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; AND ATLANTIC COAST. FLATWOOS MLRA'S

DISTURBED AREA STABILIZATION (TEMP)
 SCALE:NTS E42

SOD MAINTENANCE AND INSTALLATION

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.

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

SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

DISTURBED AREA STABILIZATION (SOD)
 SCALE:NTS DS4

**DUNWICK DRIVE PHASE II
 STORMWATER CONVEYANCE
 IMPROVEMENTS**
 CITY OF AVONDALE ESTATES
 21 NORTH AVONDALE PLAZA
 AVONDALE ESTATES, GA 30002



CITY APPROVAL

SCALE

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REVISIONS

DRAWN BY _____ JJ
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TITLE
**ES&PC DETAILS
 (1)**

PROJECT NO. 50169827

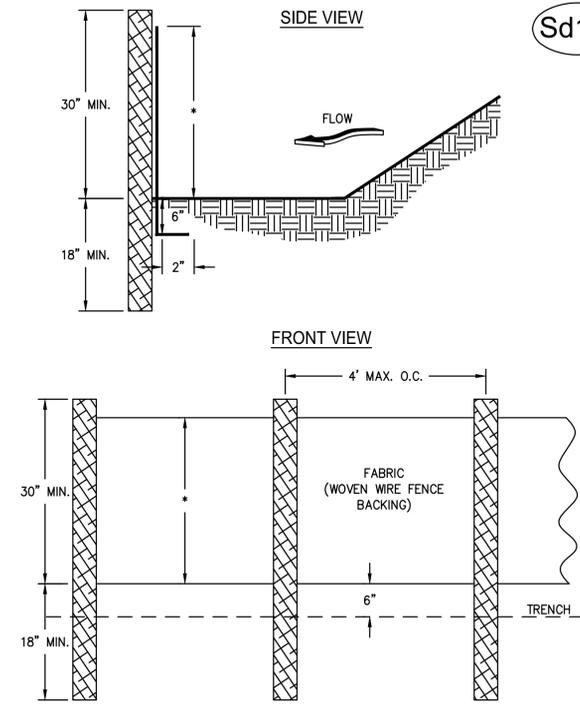
EC-501
 SHEET NO.

Megan Hanifan
 MEGAN HANIFAN, PE
 LEVEL II CERTIFIED DESIGN PROFESSIONAL
 GSWCC CERTIFICATION NO. 86325
 EXPIRES 01/08/2025

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 Utilities Protection Center, Inc.
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SILT FENCE - TYPE SENSITIVE

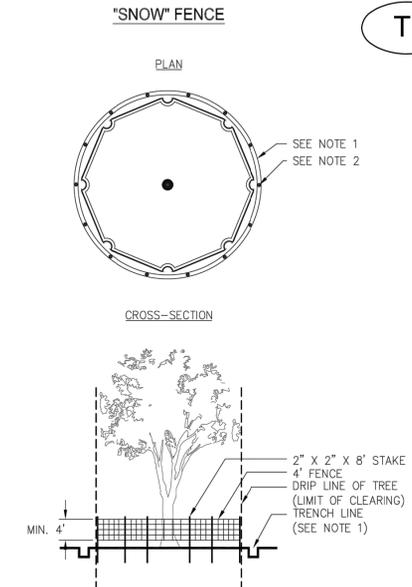
Sd1-S



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

TREE PROTECTION

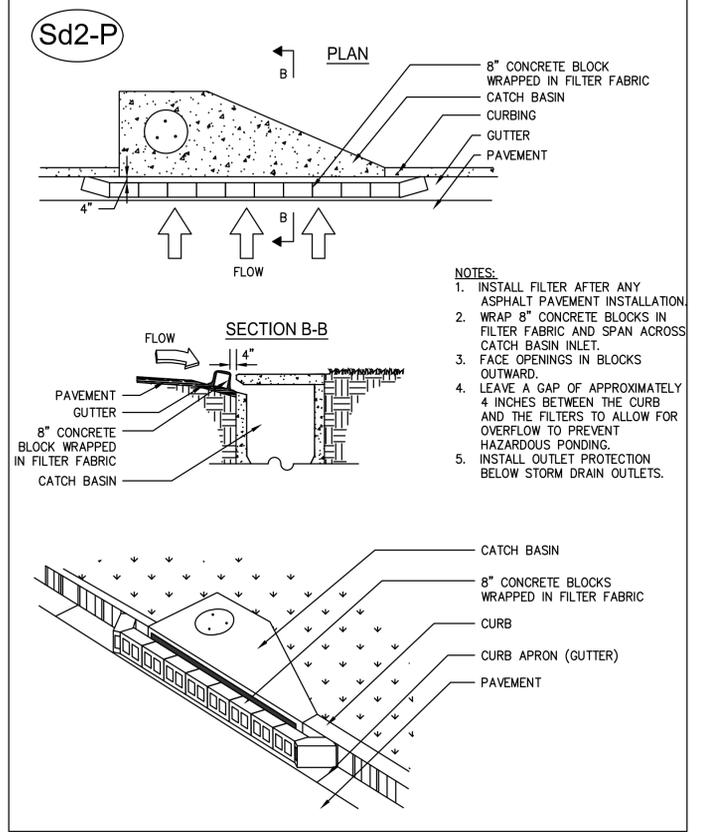
Tr



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

CURB INLET FILTER "PIGS IN BLANKET"

Sd2-P

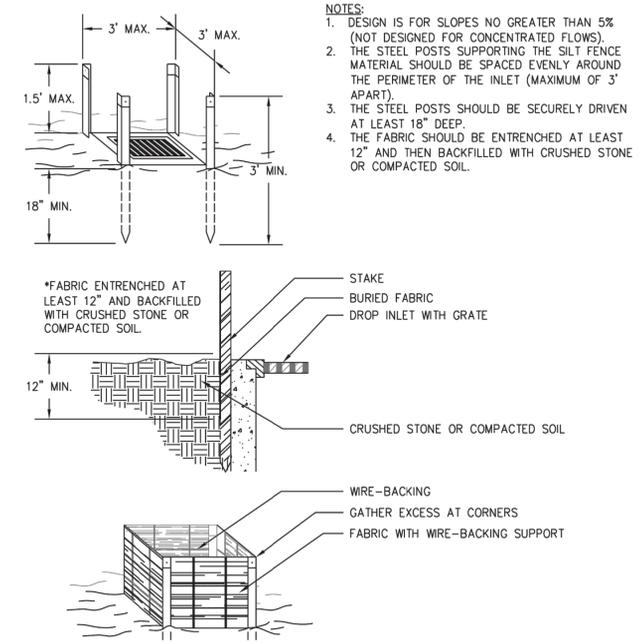


- NOTES:**
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
 2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
 3. FACE OPENINGS IN BLOCKS OUTWARD.
 4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS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

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

Sd2-F

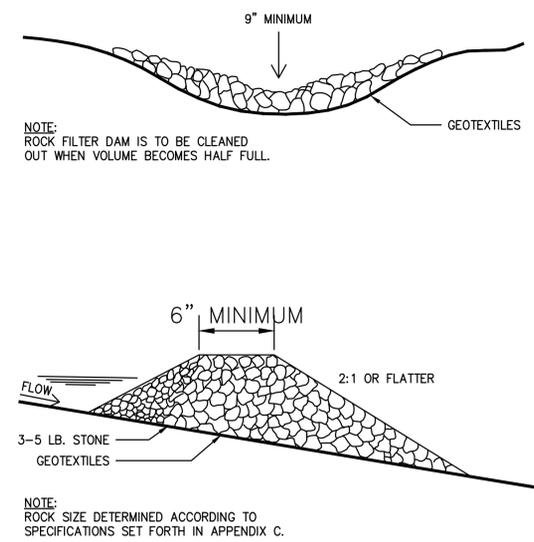
STEEL FRAME AND TYPE C SILT FENCE INSTALLATION



- NOTES:**
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 (MAXIMUM 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.

ROCK FILTER DAM

Rd



NOTE: ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.

NOTE: ROCK SIZE DETERMINED ACCORDING TO SPECIFICATIONS SET FORTH IN APPENDIX C.



DEWBERRY ENGINEERS INC.
2951 Flowers Road South
Suite 102
Atlanta, GA 30341-5533
678.530.0022
License No. PEF002398
Expires 6/30/2026

**DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
IMPROVEMENTS**

CITY OF AVONDALE ESTATES
21 NORTH AVONDALE PLAZA
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SEAL



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APPROVED BY _____ SF
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TITLE

**ES&PC DETAILS
(2)**

PROJECT NO. 50169827

EC-502

SHEET NO.

Megan Hanifan
MEGAN HANIFAN, PE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWCC CERTIFICATION NO. 86325
EXPIRES 01/08/2025



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