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TOWN OF SUMMERVILLE 200 S. Main Street Summerville, SC 843.851.4226 Russell W. Cornette, Jr., PE

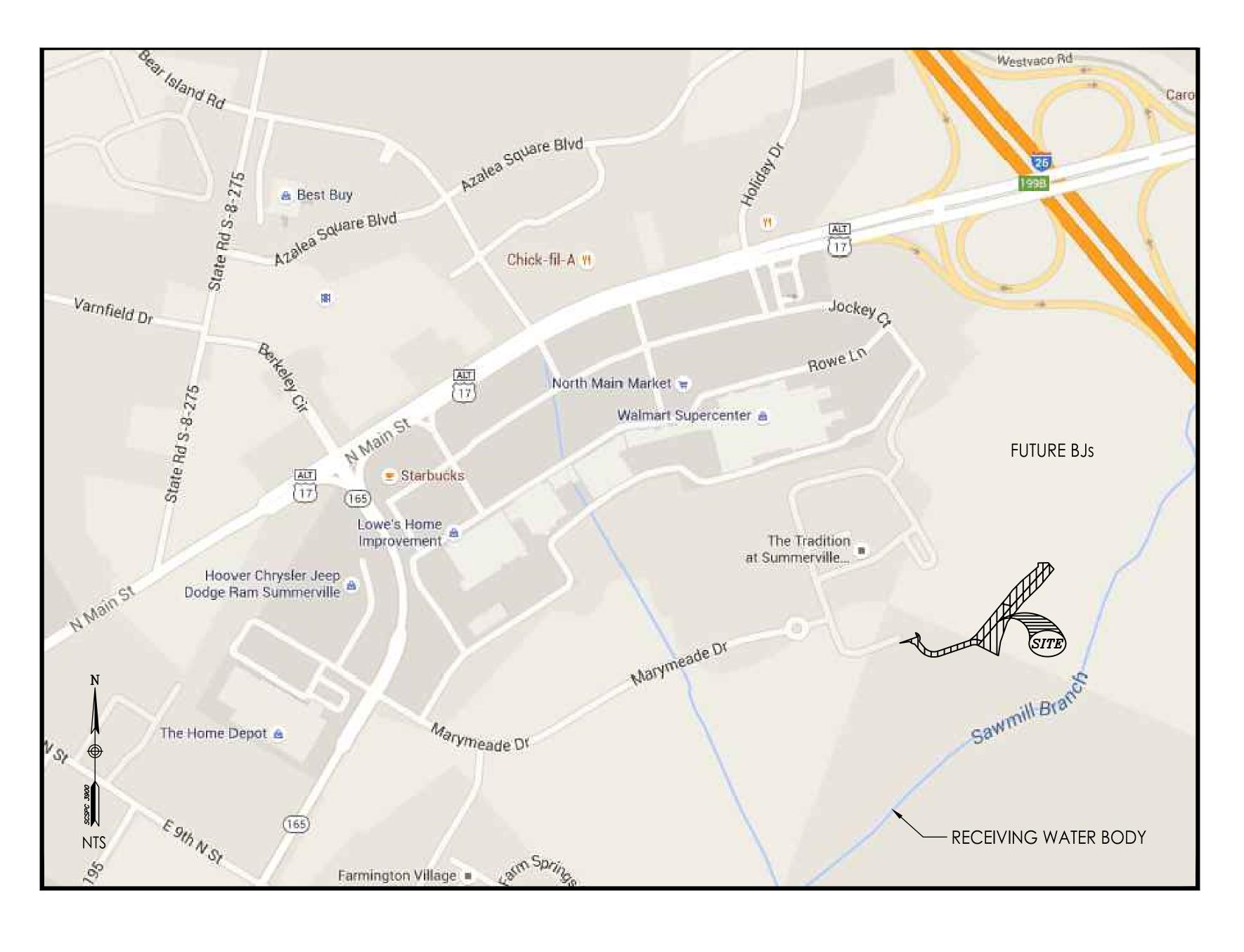
Roadway Improvements Plans for the Marymeade Drive Extension Town of Summerville, Berkeley County, SC

October 2, 2017 Project Number: 17842



Know what's **below**. **Call** before you dig.

PROJECT CONTACTS				
<u>SUBJECT</u>	MUNICIPALITY / UTILITY PROVIDER	<u>CONTACT</u>	TELEPHONE:	
PLANNING & ZONING ROADS AND DRAINAGE WATER	TOWN OF SUMMERVILLE TOWN OF SUMMERVILLE SANTEE COOPER	JESSI SHULER RUSSELL CORNETTE	(843) 851-4217 (843) 851-4226 	
SEWER ELECTRICAL POWER NPDES LAND DIST.	SUMMERVILLE CPW SCE&G SCDHEC – OCRM	R. CHRISTOPHER KAHLER WILLIAM SEILGER RICHARD GEER	(843) 875-8761 (843) - (843) 953-0238	



SHEET NO.	TITLE	REVISION
C1	COVER SHEET	0
C2	PROJECT NOTES	0
	AS-BUILT, TREE & TOPOGRAPHIC SURVEY (BY OTHERS)	0
C3	OVERALL ROAD LAYOUT PLAN	0
C4	EROSION AND SEDIMENT CONTROL PLAN STA 0+00 - 8+50	0
C5	EROSION AND SEDIMENT CONTROL PLAN STA 8+50 - 14+55	0
C6, C7	EROSION AND SEDIMENT CONTROL DETAILS	0
C8	DEMOLITION PLAN	0
C9	ROADWAY PLAN & PROFILE STA 0+00-8+50	0
C10	ROADWAY PLAN & PROFILE STA 8+50-14+55	0
C11	ROADWAY CONSTRUCTION DETAILS	0
C12	ROADWAY STORM DRAINAGE PLAN	0
C13	STORM DRAINAGE PROFILES	0
C14	STORM DRAINAGE DETAILS	0
C15	STORM DRAINAGE AND SANITARY SEWER DET	AILS 0
L01	OFF-SITE PLANTING PLAN	0

SHEET INDEX





This drawing is not to be used for construction purposes unless signed and sealed by the Engineer of Record and stamped "Approved For Construction." Use of this drawing for quantity take-offs and pricing is preliminary until all applicable permits have been obtained

Revision		Ву	Appd.	MM.DD.YY
FOR BID		 JJL	EKC	17.10.02
RELEASE FOR AGENCY REVIEW		JLL	BDK	12.16.15
Issued		Ву	Appd.	MM.DD.YY
File Name: 20659–cover–ph1.dwg	JJL	EKC	JJL	15.12.16
	Dwn.	Chkd.	Dsgn.	MM.DD.YY

GENERAL NOTES:

1. GBT REALTY FIONA HAULTER

9010 OVERLOOK BLVD. BRENTWOOD, TN 37027 TEL: (843) 370-0670

2. ENGINEER: STANTEC CONSULTING SERVICES, INC JOSHUA J. LILLY, P.E. 4969 CENTRE POINTE DR. SUITE 200 NORTH CHARLESTON, SC 29418 TEL: (843) 740-7700

3. VERTICAL DATUM USED WAS NGVD 29.

TOPOGRAPHIC INFORMATION AND ALL EXISTING CONDITIONS ARE BASED ON TOPOGRAPHIC SURVEY BY GPA PROFESSIONAL LAND SURVEYORS, DATED JULY 31, 2015. WETLANDS, CRITICAL AREAS, OTHER INDICATED ENVIRONMENTALLY SENSITIVE AREAS AND UNDISTURBED BUFFERS SHALL NOT BE DISTURBED EXCEPT WHERE SPECIFICALLY INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS AND AS AUTHORIZED BY THE USACE AND SCDHEC-OCRM.

5. THIS PROPERTY IS LOCATED WITHIN FLOOD ZONE X & AE OF F.E.M.A. INSURANCE RATE MAP (F.I.R.M.) PANEL NUMBER 450029067D.

6. ALL ROADS, RIGHT OF WAYS AND EASEMENTS TO BE DEDICATED TO TOWN OF SUMMERVILLE FOREVER.

7. CONTRACTOR IS TO VERIFY ALL INFORMATION CONTAINED HEREIN PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OR OWNER OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

8. ALL CONSTRUCTION, METHODS, MATERIALS, AND WORKMANSHIP, NOT OTHERWISE INDICATED IN THESE PLANS, SHALL CONFORM TO TOWN OF SUMMERVILLE, SCDOT, SUMMERVILLE CPW. WHERE CONFLICT OCCURS BETWEEN CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR FIELD CONDITIONS, CONTRACTOR IS TO CONTACT ENGINEER OR OWNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.

9. CONTRACTOR TO COORDINATE WITH OWNER AND ENSURE ALL APPLICABLE CONSTRUCTION, LAND DISTURBANCE, WETLANDS FILL PERMITS, AGREEMENTS, R/W'S, AND EASEMENTS ARE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

10. CONTRACTOR AND/OR OWNER IS RESPONSIBLE FOR COORDINATING CONSTRUCTION WITH UTILITY COMPANIES, ADJACENT LAND DEVELOPMENTS OR OTHER AFFECTED THIRD PARTIES.

11. TMS: 232-00-02-154, & 052

SAFETY:

- DURING THE CONSTRUCTION AND MAINTENANCE OF THE THIS PROJECT, ALL SAFETY REGULATIONS SHALL BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL PROVIDE AND MAINTAIN HIS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH HIS HEALTH AND SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING EMPLOYEES AND SUB
- CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AN REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
- THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES. WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. ALL SOUTH CAROLINA AMENDMENTS SHALL APPLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATION. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S
- INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY RECUILATION 8. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES. ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.

SEWER CONSTRUCTION NOTES:

- CONTACT: SUMMERVILLE CPW, CHRIS KAHLER 843-875-8761
- ALL MATERIALS AND INSTALLATION PROCEDURES MUST MEET THE REQUIREMENTS OF THE SUMMERVILLE CPW, SCDHEC AND THE MANUFACTURER.
- THE DEVELOPER SHALL BE AWARE THAT ANY WASTEWATER SYSTEM RELOCATIONS NECESSITATED TO ACCOMMODATE THE DEVELOPMENT WILL BE PERFORMED AT THE DEVELOPER'S EXPENSE (I.E. SERVICE RELOCATIONS TO ACCOMMODATE DRIVEWAYS).
- 3. SIX INCH WIDE, GREEN METALLIC WARNING TAPE SHALL BE PLACED 18 INCHES ABOVE ALL GRAVITY AND FORCE MAIN WASTEWATER SYSTEMS. NUMBER TWELVE (#12) SINGLE STRAND, COPPER OR EXTRA HIGH STRENGTH COPPER CLAD CARBON STEEL WIRE, WITH GREEN POLYETHYLENE INSULATION SHALL BE TAPED (EVERY 5 FEET MAX.) TO THE TOP OF ALL FORCE MAINS AND SERVICES. EACH WIRE SHALL TERMINATE AT A VALVE, CLEANOUT OR MANHOLE.
- 4. IN LOCATIONS WHERE THE WASTEWATER MAIN IS DESIGNED TO HAVE LESS THE 5.5 FEET OF COVER, THE WATER MAIN AND WASTEWATER SERVICE PIPES SHALL BE INSTALLED WITH FULL JOINTS OF DUCTILE IRON PIPE CENTERED AT THE PIPE INTERSECTION.
- ALL WASTEWATER SYSTEM AND WATER OR STORM DRAIN PIPE CROSSINGS SHALL HAVE 18 INCHES MINIMUM VERTICAL SEPARATION. OTHERWISE, A JOINT OF DUCTILE IRON PIPE WILL BE REQUIRED ON THE WASTEWATER AND WATER PIPES, CENTERED AT THE CROSSING
- THE CONTRACTOR SHALL PROVIDE SCPW WRITTEN NOTICE 48 HOURS PRIOR TO INITIATING CONSTRUCTION AND/OR MAKING CONNECTIONS TO THE EXISTING SYSTEM. THIS INCLUDES RETURN TRIPS AFTER LAYOFFS EXCEEDING 5 WORKING DAYS.
- ALL GRAVITY AND FORCE MAIN WASTEWATER SYSTEMS SHALL HAVE 3 FEET MINIMUM COVER. FORCE MAIN PIPING SHALL HAVE 5 FEET MAXIMUM COVER, EXCEPT WHERE BENDS ARE USED TO DEFLECT THE LINES ABOVE OR BELOW CONFLICTS. GRAVITY WASTEWATER SERVICES SHALL HAVE 6 FEET MAXIMUM COVER AT THE PROPERTY OR EASEMENT LINE.
- SCPW MUST BE PROVIDED WITH A COMPLETE WASTEWATER SYSTEM AS-BUILT PRIOR TO THE INAL INSPECTION BEING SCHEDULED.
- IN AREAS WHERE THE EXISTING GRADE REQUIRES FILL TO OBTAIN 3 FEET MINIMUM COVER OVER
- 10. CONSTRUCTION OF THE WASTEWATER SERVICES AND FORCE MAIN PIPING SHALL NOT BE INITIATED

TOWN OF SUMMERVILLE STANDARD NOTES

- SWPPP MUST BE KEPT ONSITE OR WITHIN THIRTY (30) MINUTES OF THE SITE AT ALL TIMES AND IN A DESIGNATED AREA THAT IS ACCESSIBLE TO THE INSPÉCTORS.
- 2. THE TOWN OF SUMMERVILLE SHALL NOT MAINTAIN STORMWATER DETENTION OR RETENTION PONDS. THE PROPERTY OWNER SHALL MAINTAIN ALL STORMWATER DETENTION FACILITIES SHOWN HEREIN.
- 3. SWPPP SHOULD INCLUDE A CONCRETE WASHOUT STAGING AREA FOR SITE AND BUILDING CONSTRUCTION AND ALL OTHER PURPOSES OF THE DEVELOPMENT TO INCLUDE BUT NOT BE LIMITED TO PAINTERS. 4. A CERTIFIED STORMWATER AS-BUILT MUST BE SUBMITTED TO SCPW PRIOR TO LETTER OF OCCUPANCY.
- CLOSEOUT PACKAGE. AND TO SCDHEC PRIOR TO RECEIVING A NOTICE OF TERMINATION.
- BE INVALIDATED.

CLEARING AND DEMOLITION:

- 1. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER
- APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION. 2. THE TOP 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER OR THE OWNER'S ENGINEER TO BE USED FOR LANDSCAPING PURPOSES. UNLESS OTHERWISE DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER. THE REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
- ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS OR AS DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER.

- THE PROPOSED WASTEWATER SYSTEM, THE FILL MUST BE PLACED PRIOR TO CONSTRUCTION OF THE WASTEWATER SYSTEM BEING INITIATED.
- UNTIL THE FINAL SITE GRADES HAVE BEEN ESTABLISHED (+/- 0.5 FOOT).
- 5. THE PROJECT/SITE MUST BE BUILT ACCORDING TO APPROVED TOWN AND SCDHEC PLANS UNLESS SWPPP
- DOCUMENTS ARE UPDATED BY THE ORIGINAL SWPPP PREPARER, OTHERWISE PERMITS AND APPROVALS WILL
- 3. ALL CONSTRUCTION DEBRIS AND OTHER WASTER MATERIALS SHALL BE DISPOSED OF OFF-SITE IN

PAVING AND GRADING

- ALL GRADING, MATERIALS & METHODS SHALL COMPLY WITH SCDOT STANDARDS.
 ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL
- FROM THE SITE. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- 4. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT
- 5. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS. 6. UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO SCDOT
- STANDARD SPECIFICATIONS, LATEST EDITION. 7. CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE APPROPRIATE MUNICIPAL AUTHORITY OR AS SHOWN ON THE DRAWINGS. PROTECT ALL
- 8. STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- IMMEDIATELY FOLLOWING FINE GRADING OPERATIONS, COMPACT SUBGRADE TO 98% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 OR AS REQUIRED BY GEOLOGICAL REPORT. 10. ALL FILLS WITHIN PUBLIC RIGHT-OF-WAYS AND EASEMENTS SHALL BE ENGINEERED. ADDITIONALLY, ANY FILLS OUTSIDE OF PUBLIC RIGHT-OF-WAYS WHICH ARE OVER 2 FEET IN DEPTH SHALL BE ENGINEERED. ENGINEERED FILLS SHALL BE CONSTRUCTED IN 6" LIFTS. EACH LIFT SHALL BE COMPACTED TO 98 % OF THE MAXIMUM DRY DENSITY PER AASHTO
- T-180 TEST METHOD (MODIFIED PROCTOR) OR AS REQUIRED BY GEOLOGICAL REPORT. 11. CRUSHED ROCK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 02630 (BASE AGGREGATE) SCDOT STANDARD SPECIFICATIONS. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR). A.C. PAVEMENT SHALL
- CONFORM TO SECTION 00745 (ASPHALT CONCRETE PAVEMENT) SCDOT STANDARD SPECIFICATIONS FOR STANDARD DUTY MIX. A.C. PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 91% OF MAXIMUM DENSITY AS DETERMINED BY THE RICE STANDARD METHOD. 12. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS. MONUMENTS. GAS VALVES. WATER
- VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA WHEREIN THEY LIE. 13. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE
- METHODS. 14. ENGINEERED FILL MATERIAL SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER THAN 3 INCHES IN MAXIMUM DIMENSIONS AND SHALL BE FREE OF VEGETATION, ORGANIC MATTER, DEBRIS, RUBBLE AND OTHER UNSUITABLE MATERIALS.
- 15. IMPORTED SOILS FOR USE AS ENGINEERED FILL SHALL BE NON-EXCLUSIVE MATERIALS AND SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER THAN 3 INCHES IN MAXIMUM DIMENSIONS AND SHALL BE FREE OF VEGETATION, ORGANIC MATTER, DEBRIS, RUBBLE, AND OTHER UNSUITABLE MATERIALS OR AS REQUIRED BY GEOLOGICAL REPORT.
- 16. AGGREGATE BASE MATERIAL SHALL MEET THE FOLLOWING GRADATION OR AS REQUIRED BY GEOLOGICAL REPORT.

SIEVE SIZE (PER ASTM D422)	PERCENT PASSING BY WEIGHT
1 INCH	100
3/4	90–100
NO. 8	35–55
NO. 200	0-8

- 17. ALL AREAS TO RECEIVE FILL, AND AREAS OF STRUCTURES AND PAVEMENTS, SHALL BE STRIPPED OF VEGETATION, ORGANIC MATER, DEBRIS, RUBBLE, AND OTHER UNSUITABLE MATERIALS. STRIPPED SOILS SHALL NOT BE USED IN ENGINEERED FILL, BUT MAY BE USED IN LANDSCAPE AREAS.
- ENGINEERED FILL MATERIAL SHALL BE COMPACTED TO AT LEAST THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT, PER ASTM D698 (STANDARD PROCTOR) OR AS REQUIRED BY GEOLOGICAL REPORT

· · ·		
ENGINEERED FILL MATERIAL	MINIMUM PERCENT COMPACTION	MOISTURE CONTENT (RANGE)
NATIVE SOIL	90%	OPTIMUM TO OPTIMUM PLUS 3%
ENGINEERED FILL UNDER STRUCTURES AND BEHIND RETAINING WALLS	95%	OPTIMUM TO OPTIMUM PLUS 3%
ENGINEERED FILL UNDER PAVEMENTS	95%	OPTIMUM TO OPTIMUM PLUS 2%
FILL IN LANDSCAPE AREAS	95%	2 TO 5% ABOVE OPTIMUM

- AGGREGATE BASE COURSE SHALL BE COMPACTED TO AT LEAST THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT, PER AASHTO T180 (MODIFIED PROCTOR) OR AS REQUIRED BY GEOLOGICAL REPORT

ENGINEERED FILL MATERIAL	MINIMUM PERCENT COMPACTION	MOISTURE CONTENT (RANGE)
AGGREGATE BASE MATERIAL OR IMPORTED GRANULAR SOIL IN BUILDING AND PAVEMENT AREAS	100%	OPTIMUM PLUS OR MINUS 2%

- NOTE: MOISTURE CONTENT OF ENGINEERED FILL MATERIAL MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION TO PREVENT SOIL PUMPING 18. ENGINEERED FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 6 INCHES THICK (LOOSE). 19. THE TOP 6 INCHES OF SOIL EXPOSED AT THE BOTTOM OF THE EXCAVATIONS SHALL BE
- COMPACTED, SCARIFIED AND COMPACTED AS ENGINEERED FILL PRIOR TO PLACEMENT OF ADDITIONAL FILL. 20. IF SOFT OR LOOSE SOIL IS PRESENT AT THE BASE OF EXCAVATIONS, IT SHALL BE
- EXCAVATED AND/OR COMPACTED AS ENGINEERED FILL OR AS RECOMMENDED BY THE ENGINEER'S FIELD REPRESENTATIVE.
- 21. IF SUBGRADE SOILS EXHIBIT PUMPING DURING COMPACTION, THE AREA SHALL BE ALLOWED TO DRY UNTIL THE SOLIDS BECOME WORKABLE WITHOUT PUMPING. THE MOISTURE CONTENT OF THE SOILS SHALL BE ADJUSTED TO PREVENT PUMPING. 22. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN
- ALL FINISH GRADE ELEVATIONS AND /OR FINISH CONTOUR LINES SHOWN, FINISH PAVEMENT GRADES AT TRANSITION TO EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES EXPOSURE TO THE ENVIRONMENT MAY REDUCE THE STRENGTH OF SOILS IN PAVED AREAS. IF THIS OCCURS. THE SOFTENED SOILS SHALL BE REMOVED AND REWORKED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. IF RAINFALL IS EXPECTED AT A TIME WHEN BEARING SOILS IN FOOTING AREAS ARE EXPOSED, A 2 TO 4 INCH THICK LAYER OF LEAN CONCRETE MAY BE PLACED IN SUCH AREA.
- 23. THE SITE SHALL BE GRADED TO TRANSPORT SURFACE RUNOFF AWAY FROM THE PAVED AREAS. WATER SHALL NOT BE ALLOWED TO ACCUMULATE (POND) ON PAVED AREAS. 24.BACKFILL AND FILL SHALL CONFORM TO THE GENERAL REQUIREMENTS FOR SOIL MATERIALS ABOVE AND SHALL BE CLASSIFIED AS GW, GP, GM, GC, SW, SP, SM, SC, ML, CL BY ASTM D2487 AND SHALL CONFORM TO THE FOLLOWING
- 1. SHALL BE CAPABLE OF BEING COMPACTED TO THE SPECIFIED DEGREE OF COMPACTION MERCENTREMINISTUTIONE CONTENT IS WITHIN 3 PERCENTAGE POINTS OF THE OPTIMUM 2. LIQUID LIMIT SHOULD NOT EXCEED 40 PERCENT WHEN TESTED IN ACCORDANCE WITH ASTM D4318.
- 3. PLASTICITY INDEX SHOULD NOT BE GREATER THAN 30 PERCENT WHEN TESTED IN ACCORDANCE WITH ASTM D4318. 4. NO MORE THAN 75 PERCENT BY WEIGHT SHALL BE FINER THAN NO. 200 SIEVE WHEN TESTED IN ACCORDANCE WITH ASTM D1140.
- 25.UNSUITABLE SOIL SHALL BE ANY SOIL MATERIALS DETERMINED BY THE INDEPENDENT GEOTECHNICAL LABORATORY AS NOT CONFORMING TO THE REQUIREMENTS DESCRIBED ABOVE FOR BACKFILL AND FILL. A MOISTURE CONTENT WHICH IS MORE THAN 3 PERCENTAGE POINTS FROM OPTIMUM SHALL NOT BE CONSIDERED UNSUITABLE IF SUCH MATERIALS WOULD OTHERWISE BE SUITABLE IF THE MOISTURE CONTENT WERE ADJUSTED. ADJUSTMENTS TO THE SOIL MOISTURE CONTENT BY DRYING, MIXING, ADDING WATER, OR OTHER MEANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 26.MEASUREMENT OF UNSUITABLE MATERIAL: THE VOLUME OF UNSUITABLE MATERIAL EXCAVATION SHALL BE DETERMINED BY A LICENSED SURVEYOR BY THE AVERAGE END AREA METHOD. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SCALED PLAN WITH SUFFICIENT ELEVATION POINTS TO ACCURATELY DEFINE THE VOLUME OF UNSUITABLE MATERIAL EXCAVATED. THE EXTENT OF UNSUITABLE MATERIAL EXCAVATION SHALL BE DETERMINED BY THE INDEPENDENT GEOTECHNICAL LABORATORY.
- 27.ALL PAINTED ARROWS AND OTHER SYMBOLS TO BE PER MUTCD AND SCDOT STANDARD SPECIFICATIONS.

8" THICK.

MAINTENANCI

DRAINAGE

1. ALL STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE, TONGUE AND GROOVE CLASS III, UNLESS OTHERWISE NOTED ON PLANS. PIPES PERMANENTLY HOLDING WATER SHALL BE O-RING JOINTS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH SCDOT STANDARDS, APPLICABLE GOVERNING AGENCY STANDARDS AND DETAILS INCORPORATED IN THIS PLAN. 2. PIPE LENGTHS SHOWN ARE APPROXIMATE AND CENTER TO CENTER ON DRAINAGE

STRUCTURES OR TO END OF PIPE. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO SUBMITTAL OF BID. 3. ALL DRAINAGE STRUCTURE GRATES AND COVERS IN RIGHT-OF-WAY SHALL BE PER SCDOT STANDARDS AND SPECIFICATIONS, LATEST EDITION, UNLESS OTHERWISE NOTED. 4. ALL STORM DRAIN PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER AND MUNICIPALITY HAVING PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE

ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS. 5. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC TH STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES. 6. FOR CONSTRUCTION OF THE DROP INLET WALLS EITHER BRICK MASONRY OR CLASS 3000 CONCRETE MAY BE USED. FOR CONCRETE THE WALLS ARE TO BE 6" THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. FOR BRICK THE WALLS ARE TO BE

7. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6 IN. THICK CLASS 3000 CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. IN. PER FT. IS MET. 8. MORTAR SHALL BE TYPE S OR M.

9. IF DESIRED THESE ITEMS MAY BE PRECAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

10. REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221. 11. IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE STEP STANDARD DRAWING 719-16. 12. CASTING SHALL CONFORM TO AASHTO M 105. CLASS 35B AND THE ALTERNATE LOAD

TEST OF AASHTO M 306. CASTINGS SHALL ALSO MEET THE LOADING REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621 (LATEST EDITION). 13. STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE LOADING AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON SCOOT LIST OF

APPROVED SUPPLIERS. 14. STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. 15. STEEL GRATES AND FRAMES SHALL BE DIMENSIONED TO BE INTERCHANGEABLE WITH EACH PIECE OF THE CAST IRON GRATE AND FRAME SHOWN, MUST HAVE A POSITIVE MEANS TO RETAIN THE GRATE IN THE FRAME. 16. STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET FEDERAL SPECIFICATION RR-F-621 (LATEST EDITION).

17. MANUFACTURERS DESIRING TO BE PLACED ON THE DEPARTMENT'S APPROVAL SHEETS SHOULD CONTACT THE RESEARCH AND MATERIALS ENGINEER FOR PROCEDURES. 18. THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE ORIENTED IN THE DIRECTION OF FLOW IF PRACTICAL. 19. AS SHOWN BY THIS DRAWING THE FRAME IS SET LEVEL, BUT THE ENGINEER MAY SET

SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS. 20. AFTER THE FRAME IS SET IN ITS FINAL POSITION, IT IS TO BE ENCASED WITH CONCRETE AS SHOWN BY DRAWING. 21. THE INSIDE OF THE OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN, UNLESS

OTHERWISE SHOWN ON PLANS (SUMP). 22. THE SOFFIT (INSIDE TOP OF PIPE) OF THE OUTLET PIPE SHOULD BE NO HIGHER THAN THE SOFFIT OF THE INLET PIPE, UNLESS OTHERWISE SHOWN ON PLANS. 23. THE CONTRACTOR IS RESPONSIBLE FOR BEDDING ALL PIPE PER SCDOT'S "THE STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION" LATEST EDITION. 24. SHOULD THE CONTRACTOR ENCOUNTER UNSUITABLE MATERIAL, THEN THE CONTRACTOR

WILL ENGAGE AN INDEPENDENT GEOTECHNICAL ENGINEER TO VERIFY UNSUITABLE MATERIAL AND MAKE RECOMMENDATIONS ON THE REMOVAL AND THE PLACEMENT AND TYPE OF NEW BEDDING AND BACKFILL MATERIAL. THE RECOMMENDATIONS BY THE INDEPENDENT GEOTECHNICAL ENGINEER SHALL BE SUBMITTED TO THE OWNER AND CIVIL ENGINEER FOR CONCURRENCE PRIOR TO PROCEEDING WITH WORK. 25. IN ADDITION TO VIDEO INSPECTION OF THE NEW STORM DRAIN LINES, TOWN OF SUMMERVILLE MAY ASK FOR A VIDEO OF THE EXISTING STORM SYSTEM.

EROSION CONTROL NOTES:

I. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE MHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

-WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURE MUST BE INITIATED AS SOON AS PRACTICABLE. -WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK, IE PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED. THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL. COVER. AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION, INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. '2–300 ET SEQ. AND SCR100000

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN TORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS. 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS.

THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

-WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; -WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS COMPOUNDS AND -FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND -SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE. 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.



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Legend

Notes

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APPROVED FOR CONSTRUCTION

Revision		Ву	Appd.	YY.MM.DD
2. FOR BID				17.10.02
1. FOR REVIEW		JJL	BDK	15.12.16
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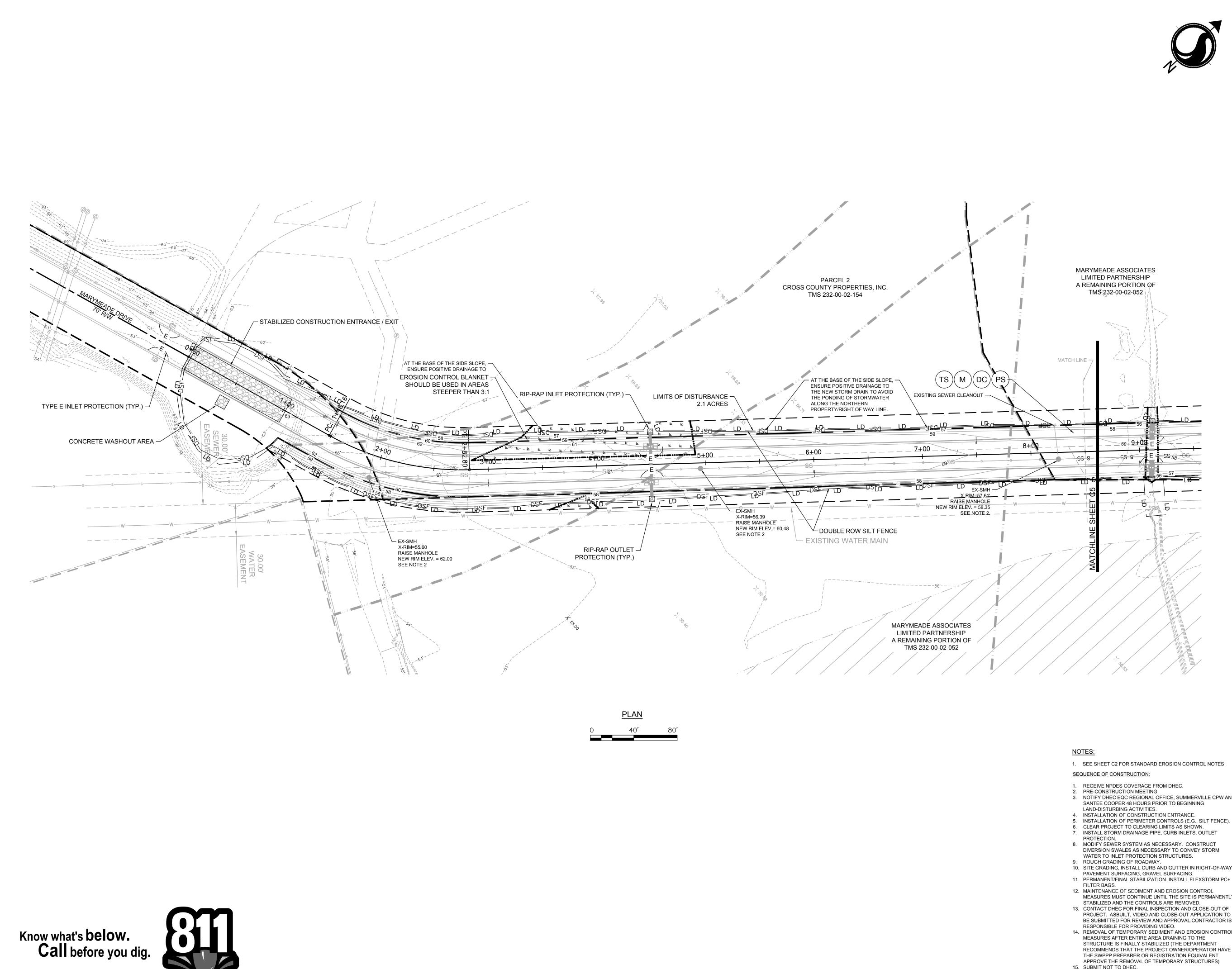
Notes

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C3



1. SEE SHEET C2 FOR STANDARD EROSION CONTROL NOTES

- 3. NOTIFY DHEC EQC REGIONAL OFFICE, SUMMERVILLE CPW AND

- DIVERSION SWALES AS NECESSARY TO CONVEY STORM
- 10. SITE GRADING, INSTALL CURB AND GUTTER IN RIGHT-OF-WAY, PAVEMENT SURFACING, GRAVEL SURFACING. 11. PERMANENT/FINAL STABILIZATION. INSTALL FLEXSTORM PC+
- MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY
- 13. CONTACT DHEC FOR FINAL INSPECTION AND CLOSE-OUT OF PROJECT. ASBUILT, VIDEO AND CLOSE-OUT APPLICATION TO
- BE SUBMITTED FOR REVIEW AND APPROVAL CONTRACTOR IS 14. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL
- STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES)
- 15. SUBMIT NOT TO DHEC.

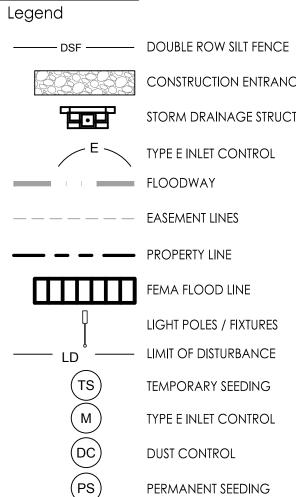
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CONSTRUCTION ENTRANCE STORM DRAINAGE STRUCTURE TYPE E INLET CONTROL FLOODWAY LIGHT POLES / FIXTURES ------ LIMIT OF DISTURBANCE TEMPORARY SEEDING TYPE E INLET CONTROL DUST CONTROL

PERMANENT SEEDING

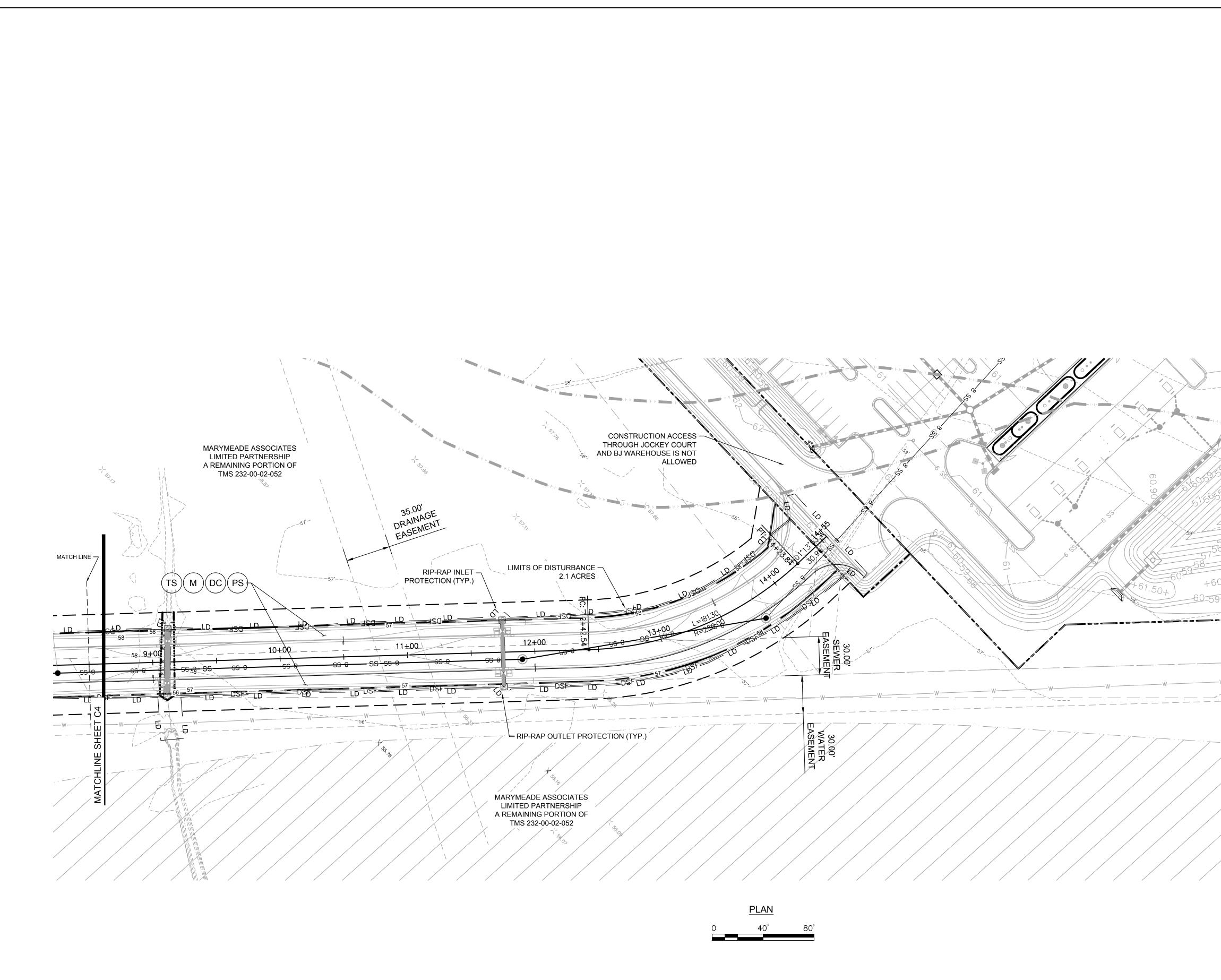
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Know what's **below. Call** before you dig.





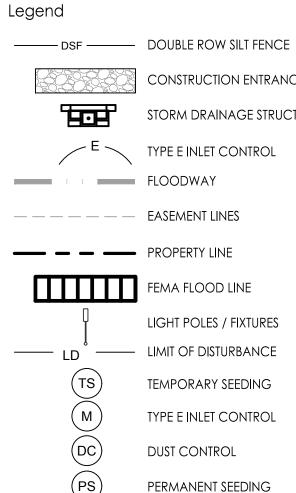


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CONSTRUCTION ENTRANCE STORM DRAINAGE STRUCTURE TYPE E INLET CONTROL LIGHT POLES / FIXTURES ——— LIMIT OF DISTURBANCE TEMPORARY SEEDING TYPE E INLET CONTROL DUST CONTROL PERMANENT SEEDING

Notes

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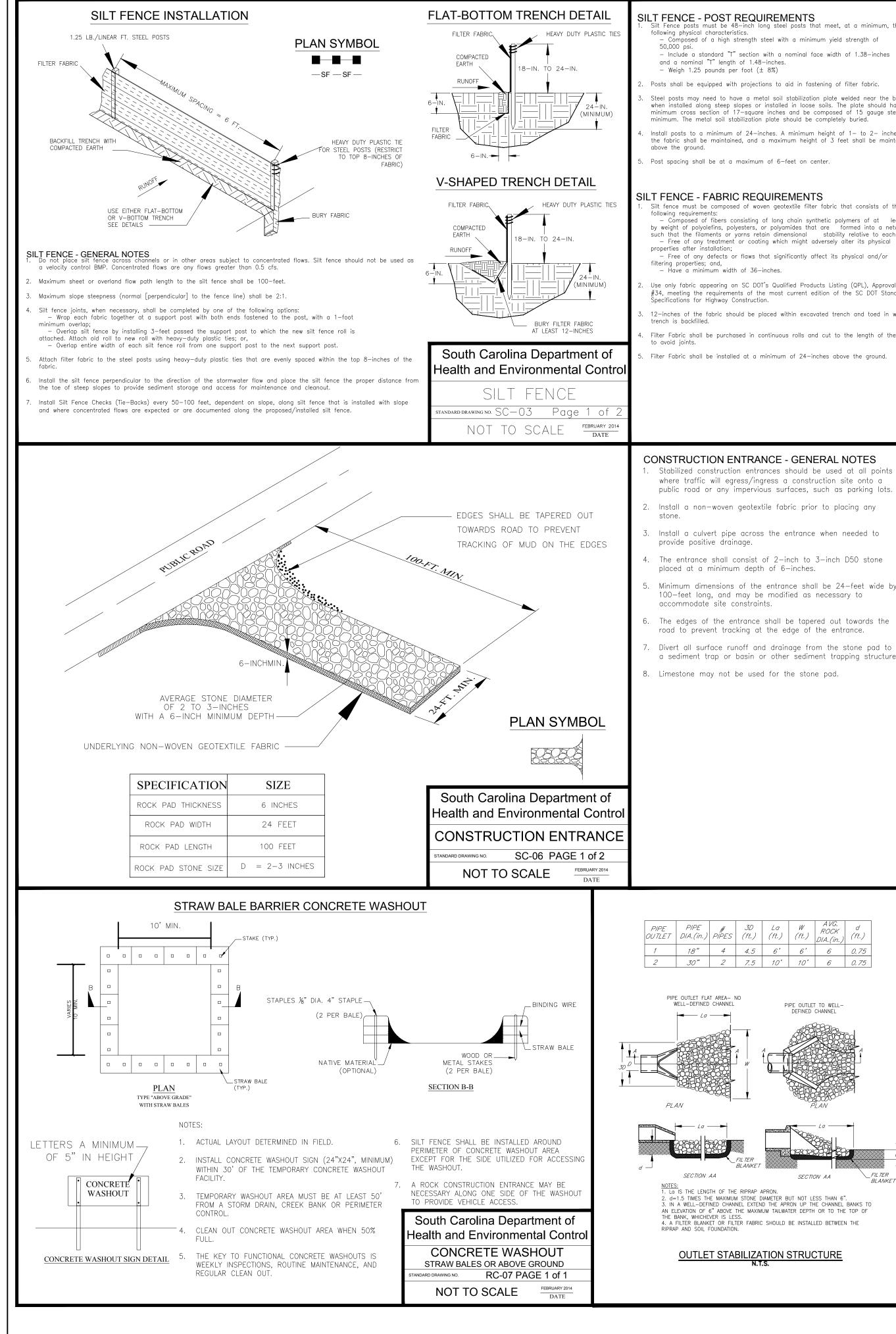
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5 of 16

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NOTES:

- 1. SEE SHEET C2 FOR STANDARD EROSION CONTROL NOTES SEQUENCE OF CONSTRUCTION:
- RECEIVE NPDES COVERAGE FROM DHEC.
 PRE-CONSTRUCTION MEETING 3. NOTIFY DHEC EQC REGIONAL OFFICE, SUMMERVILLE CPW AND SANTEE COOPER 48 HOURS PRIOR TO BEGINNING
- LAND-DISTURBING ACTIVITIES.
 INSTALLATION OF CONSTRUCTION ENTRANCE.
 INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE).
- 6. CLEAR PROJECT TO CLEARING LIMITS AS SHOWN. 7. INSTALL STORM DRAINAGE PIPE, CURB INLETS, OUTLET
- PROTECTION. 8. MODIFY SEWER SYSTEM AS NECESSARY. CONSTRUCT
- DIVERSION SWALES AS NECESSARY TO CONVEY STORM WATER TO INLET PROTECTION STRUCTURES.
- 9. ROUGH GRADING OF ROADWAY.
 10. SITE GRADING, INSTALL CURB AND GUTTER IN RIGHT-OF-WAY,
- PAVEMENT SURFACING, GRAVEL SURFACING. 11. PERMANENT/FINAL STABILIZATION. INSTALL FLEXSTORM PC+ FILTER BAGS.
- 12. MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
- CONTACT DHEC FOR FINAL INSPECTION AND CLOSE-OUT OF PROJECT. ASBUILT, VIDEO AND CLOSE-OUT APPLICATION TO BE SUBMITTED FOR REVIEW AND APPROVAL.CONTRACTOR IS
- RESPONSIBLE FOR PROVIDING VIDEO. 14. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES)
- 15. SUBMIT NOT TO DHEC.



 POST REQUIREMENTS must be 48-inch long steel posts that meet, at a minimum, the i characteristics. of a high strength steel with a minimum yield strength of standard "T" section with a nominal face width of 1.38-inches al "T" length of 1.48-inches. b pounds per foot (± 8%) squipped with projections to aid in fastening of filter fabric. need to have a metal soil stabilization plate welded near the bottom long steep slopes or installed in loose soils. The plate should have a section of 17-square inches and be composed of 15 gauge steel, at a teal soil stabilization plate should be completely buried. a minimum of 24-inches. A minimum height of 1 - to 2- inches above be maintained, and a maximum height of 3 feet shall be maintained d. all be at a maximum of 6-feet on center. EDECOMPOSED of long chain synthetic polymers of at least 85% yolefins, polyesters, or polyamides that are formed into a network laments or yarns retain dimensional stability relative to each other; y treatment or coating which might adversely alter its physical installation; y defects or flaws that significantly affect its physical and/or sig; and, nimum width of 36-inches. approved in continuous rolls and cut to the length of the barrier I be purchased in continuous rolls and cut to the length of the barrier I be installed at a minimum of 24-inches above the ground.	SILT FENCE - INSPECTION & MAINTENANCE The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary. Remove accumulated sediment when it reaches 1/3 the height of the silt fence. Removed sediment shall be placed in stackpile storage areas ar spread thirly across disturbed area. Stabilize the removed sediment after it is reaccited. Check for areas where stormwater runoff has eraded a channel beneath the silt fence, or where the frace has sogged or collopaded due to runoff overlopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, are necessary. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence insteaded admoned silt fence insteaded. Silt fence should be removed within 30 days after final stabilization is achieved and call its removed, the resulting disturbed area shall be permonently atabilized. 	Increase of the preference of the p
TON ENTRANCE - GENERAL NOTES Construction entrances should be used at all points is will egress/ingress a construction site onto a or any impervious surfaces, such as parking lots. on-woven geotextile fabric prior to placing any Uvert pipe across the entrance when needed to sitive drainage. ce shall consist of 2-inch to 3-inch D50 stone a minimum depth of 6-inches. impensions of the entrance shall be 24-feet wide by ong, and may be modified as necessary to ate site constraints. of the entrance shall be tapered out towards the event tracking at the edge of the entrance. any not be used for the stone pad.		Importance vectorial schedule SPECIES BROWNTOP MILLET (ALONE) BROWNTOP MILLET (MX)* RYE GRAIN (ALONE) RYE GRAIN (MX)* * FOR DETAILS ON MIXES CONSULT INFORMATION CENTER AT (888) 656 DERMANDAT VEGETATION SCHEDI MXX* SPECIES BERMUDA GRASS (HULLED) (MX)* SECOLE, TALL (KY31) MM* SENICEA LESPEDEZA (SCARFIED) ALONE OF MA* CENTIPEDE * ORD ETAILS ON MIXES CONSULT INFORMATION CENTER AT (888) 656-
$I = \frac{1}{1000} \frac{1}{10000} \frac{1}{10000000000000000000000000000000000$	1.25 LB./LINEAR FT. STEEL POSTS FILTER FABRIC BACKFILL TRENCH WITH COMPACTED EARTH USE EITHER FLAT-BOTTOM OR V-BOTTOM TRENCH SHOWN BELOW	HEAVY DUTY PLASTIC FOR STEEL POSTS BURY FABRIC

FILTER FABRIC

COMPACTED

FILTER-

FABRIC

. 9

EARTH

RUNOFF

FLAT-BOTTOM TRENCH DETAIL

(DOUBLE ROW)

DOUBLE ROW SILT FENCE

SILT FENCE INSTALLATION (DOUBLE ROW)

FILTER FABRIC

COMPACTED

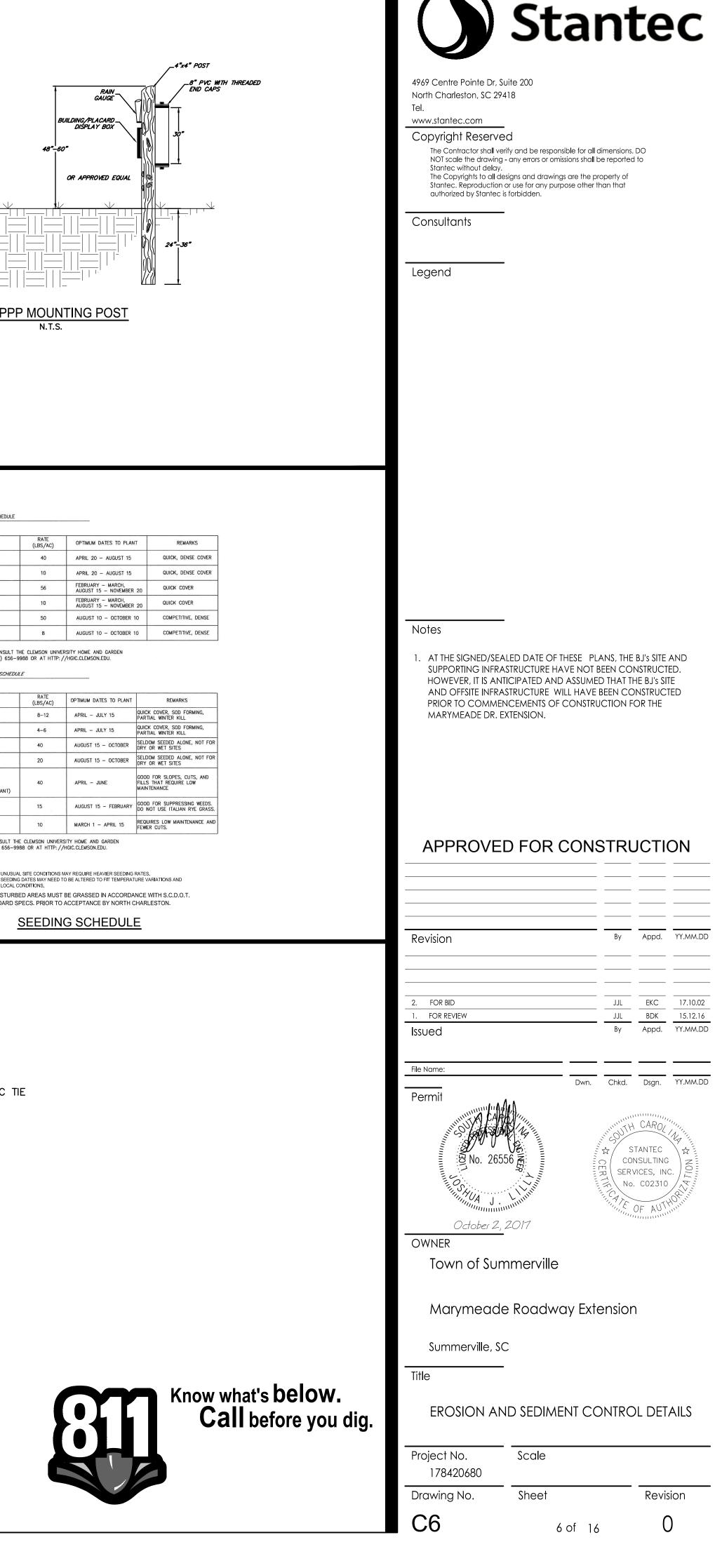
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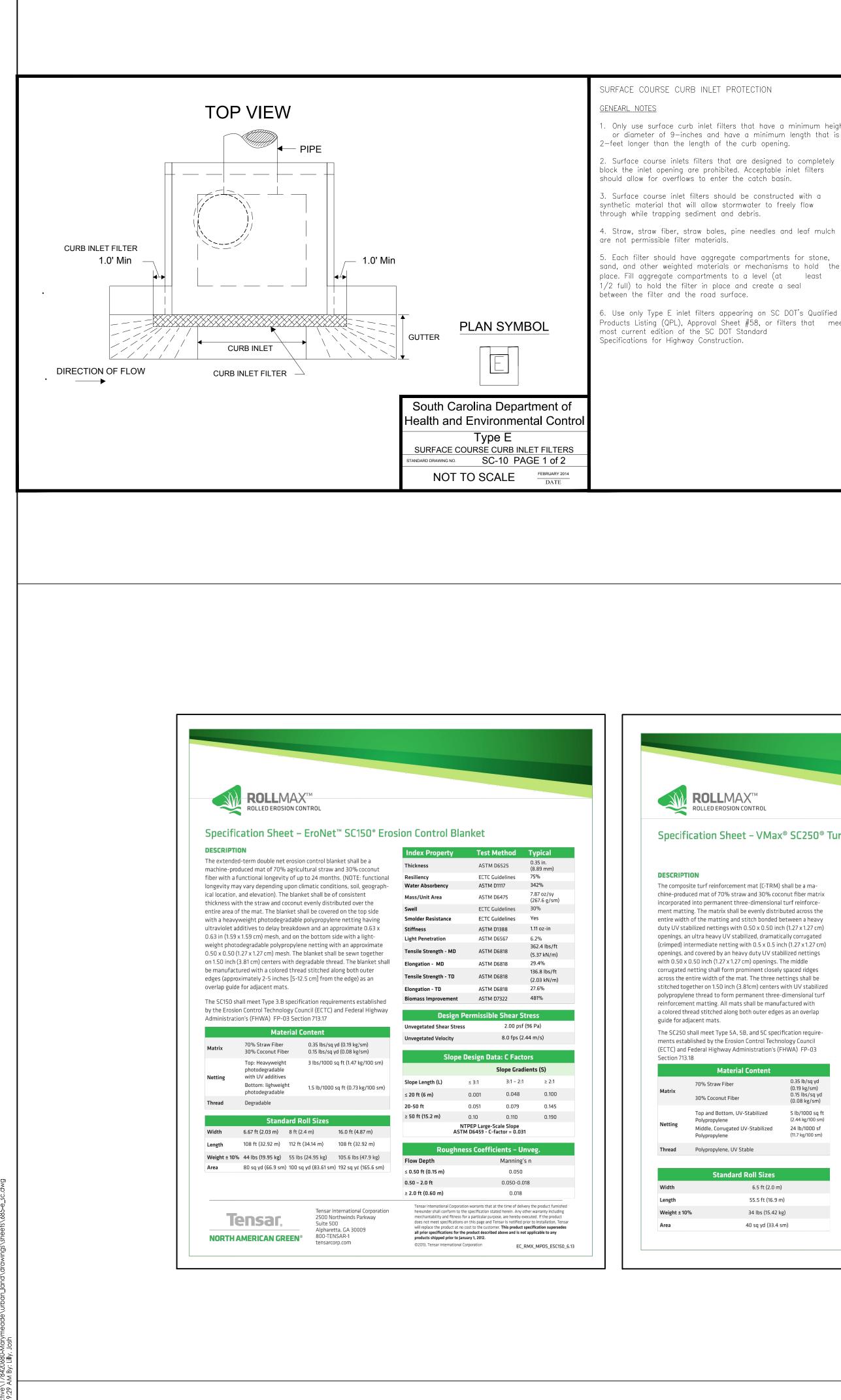
RUNOFF

FILTER FABRIC

V-SHAPED TRENCH DETAIL

(DOUBLE ROW)

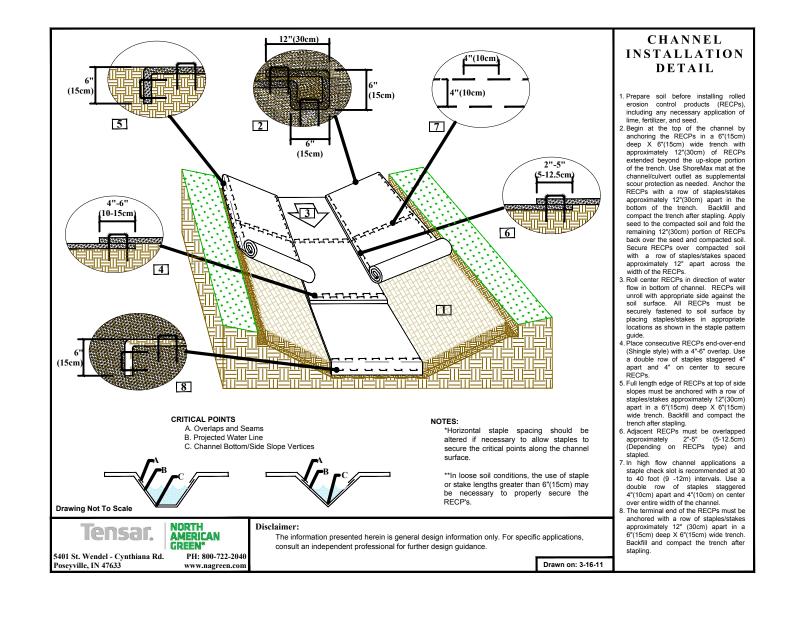




- 1. Only use surface curb inlet filters that have a minimum height or diameter of 9-inches and have a minimum length that is
- block the inlet opening are prohibited. Acceptable inlet filters
- 4. Straw, straw fiber, straw bales, pine needles and leaf mulch
- sand, and other weighted materials or mechanisms to hold the unit in place. Fill aggregate compartments to a level (at least
- 6. Use only Type E inlet filters appearing on SC DOT's Qualified
- Products Listing (QPL), Approval Sheet #58, or filters that meeting the

- INSPECTION AND MAINTENANCE
- 1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
- 2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- 3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- 4. Remove accumulated sediment when silt and/or debris has built up around the filter preventing stormwater to flow through the filter.
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- 6. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control Type E SURFACE COURSE CURB INLET FILTERS ANDARD DRAWING NO. SC-10 PAGE 2 of 2 GENERAL NOTES FEBRUARY 2014



OLLMAX TM LLED EROSION CONTROL				
tion Sheet – VMax	«® SC250® Tu	Irf Reinforceme	ent Mat	
। turf reinforcement mat (C-TRM)	shall he a ma-	Index Property	Test Method	Typical
mat of 70% straw and 30% coc o permanent three-dimensiona	onut fiber matrix	Thickness	ASTM D6525	0.62 in. (15.75 mm)
The matrix shall be evenly distri	buted across the	Resiliency	ASTM 6524	95.2%
the matting and stitch bonded b ed nettings with 0.50 x 0.50 inc	,	Density	ASTM D792	0.891 g/cm ³
ra heavy UV stabilized, dramati nediate netting with 0.5 x 0.5 in	cally corrugated	Mass/Unit Area	ASTM 6566	16.13 oz/sy (548 g/sm)
overed by an heavy duty UV sta) inch (1.27 x 1.27 cm) openings. ⁻	The middle	UV Stability	ASTM D4355/ 1000 HR	100%
ing shall form prominent closely e width of the mat. The three n	· · · -	Porosity	ECTC Guidelines	99%
er on 1.50 inch (3.81cm) centers hread to form permanent three	with UV stabilized	Stiffness	ASTM D1388	222.65 oz-in.
natting. All mats shall be manu	factured with	Light Penetration	ASTM D6567	4.1%
l stitched along both outer edge nt mats.		Tensile Strength - MD	ASTM D6818	709 lbs/ft (10.51 kN/m)
l meet Type 5A, 5B, and 5C spec led by the Erosion Control Techn		Elongation – MD	ASTM D6818	23.9%
eral Highway Administration's (I	5,	Tensile Strength - TD	ASTM D6818	712 lbs/ft (10.56 kN/m)
Material Content		Elongation - TD	ASTM D6818	36.9%
0% Straw Fiber	0.35 lb/sq yd (0.19 kg/sm)	Biomass Improvement	ASTM D7322	441%
0% Coconut Fiber	0.15 lbs/sq yd (0.08 kg/sm)	Destau		Character
op and Bottom, UV-Stabilized olypropylene	5 lb/1000 sq ft (2.44 kg/100 sm)	Design F	Permissible Shear	
Niddle, Corrugated UV-Stabilized olypropylene	24 lb/1000 sf (11.7 kg/100 sm)	Phase 1: Unvegetated	Short Duration 3.0 psf (144 Pa)	Long Duration
	(11.7 Kg/ 100 SHI)	Phase 2: Partially Veg.	8.0 psf (383 Pa)	8.0 psf (383 Pa)
olypropylene, UV Stable		Phase 3: Fully Veg.	10.0 psf (480 Pa)	8.0 psf (383 Pa)
Standard Roll Sizes		Unvegetated Velocity	• • •	(2.9 m/s)
6.5 ft (2.0 m)	Vegetated Velocity	15 fps	(4.6 m/s)
55.5 ft (16.9 r				
34 lbs (15.42 k				
40 sq yd (33.4 :				

Slo	pe Design Da	ta: C Factors		Roughness (Coefficients - Unveg.
		Slope Gradien	ts (S)	Flow Depth	Manning's n
Slope Length (L)	≤ 3:1	3:1 - 2.1	≥ 2:1	≤ 0.50 ft (0.15 m)	0.040
≤ 20 ft (6 m)	0.0010	0.0209	0.0507	0.50 – 2.0 ft	0.040-0.012
20-50 ft	0.0081	0.0266	0.0574 :	≥ 2.0 ft (0.60 m)	0.011
≥ 50 ft (15.2 m)	0.0455	0.0555	0.081		
Tens North Americ		2500 Nort Suite 500		hereunder shall conform to the s merchantability and fitness for a does not meet specifications on t will replace the product at no cos	
				ezois, rensar international corp	



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Legend

Notes

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APPROVED FOR CONSTRUCTION

Revision		Ву	Appd.	YY.MM.DD
2. FOR BID		 JJL	EKC	17.10.02
1. FOR REVIEW		By	BDK Appd.	15.12.16 YY.MM.DD
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Know what's **below. Call** before you dig.



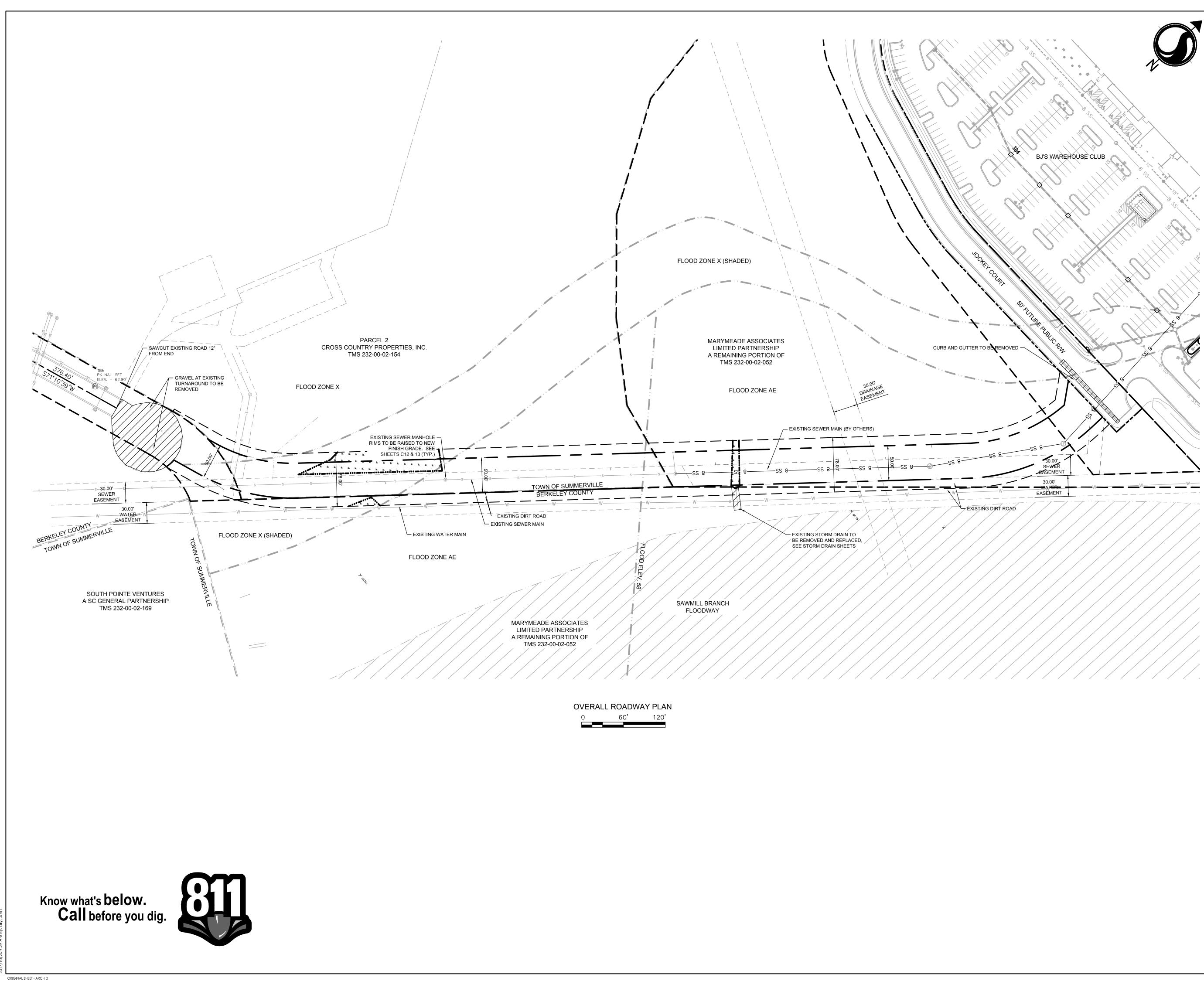
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Drawing No.

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7 of 16

Revision



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_____ LD _____ LIMIT OF DISTURBANCE

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FLOODWAY — — — — — — EASEMENT LINES FEMA FLOOD LINE

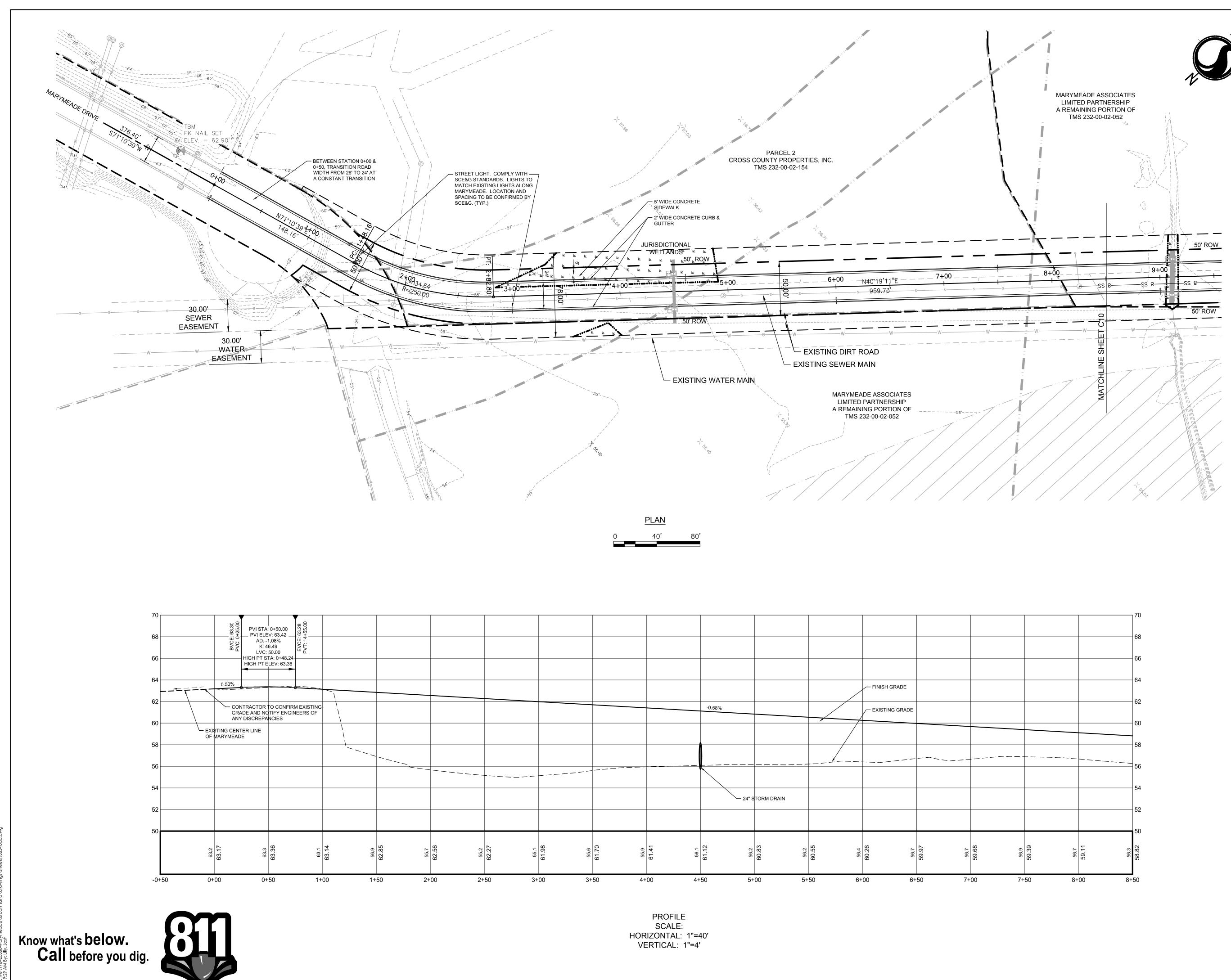
Notes

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- CLEARING LIMITS TO BE STAKED PER THE LIMITS OF DISTURBANCE LINE AS SHOWN ON THE EROSION CONTROL SHEETS. ALL TREES TO BE REMOVED IN THIS AREA.

APPROVED FOR CONSTRUCTION

Revision		Ву	Appd.	YY.MM.DD
2. FOR BID		JJL	EKC	17.10.02
1. FOR REVIEW		JJL	BDK	15.12.16
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Project No. Scale 178420680				

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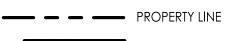
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Legend

FLOODWAY — — — — — — EASEMENT LINES

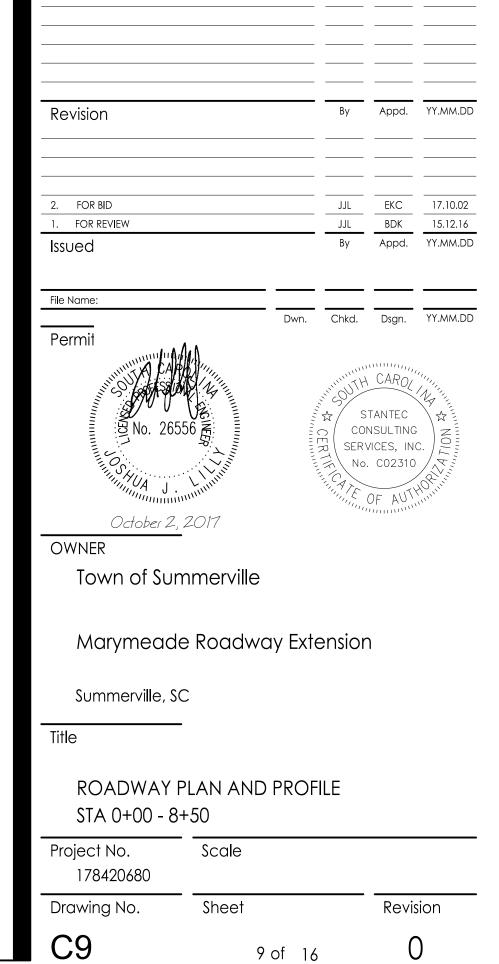


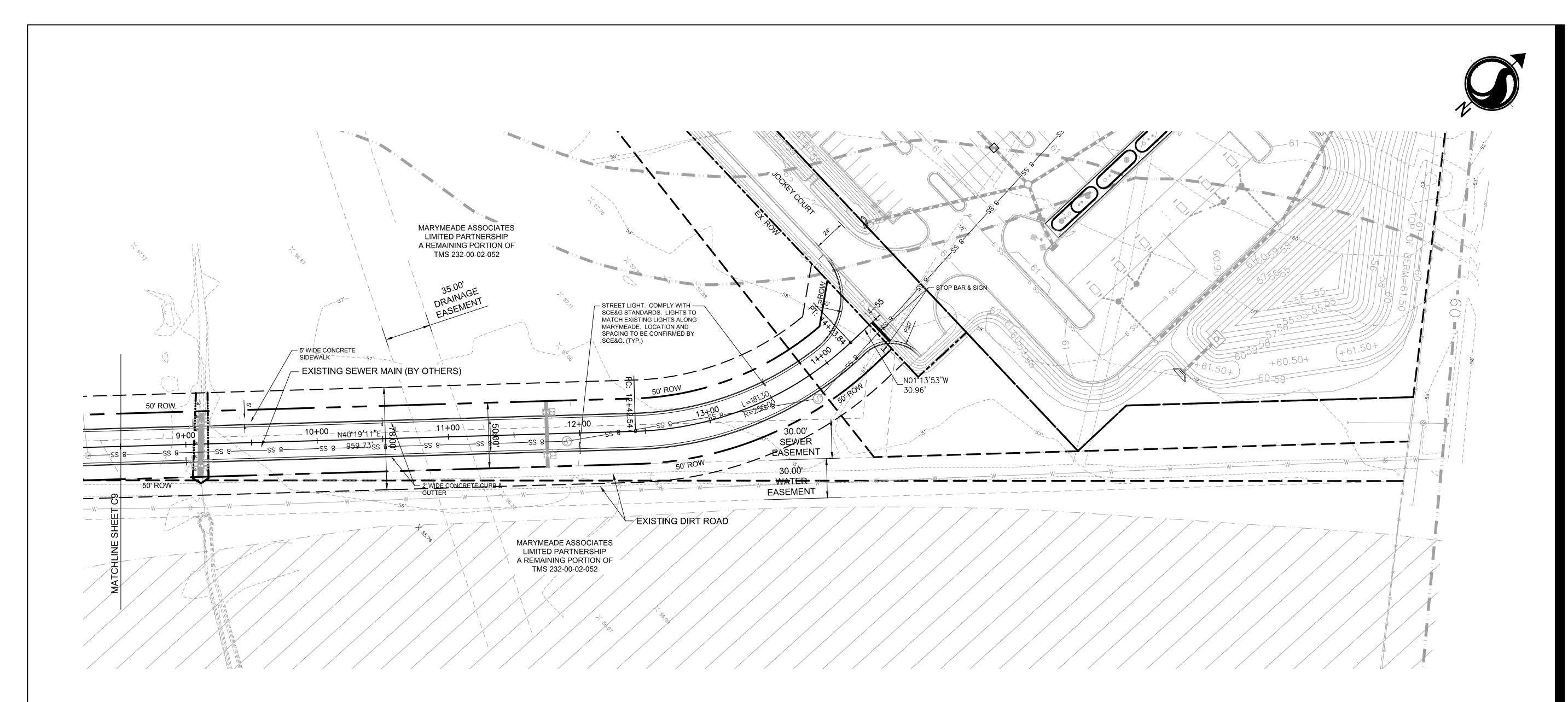


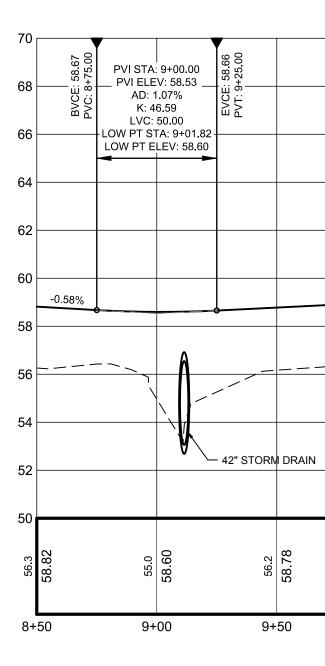
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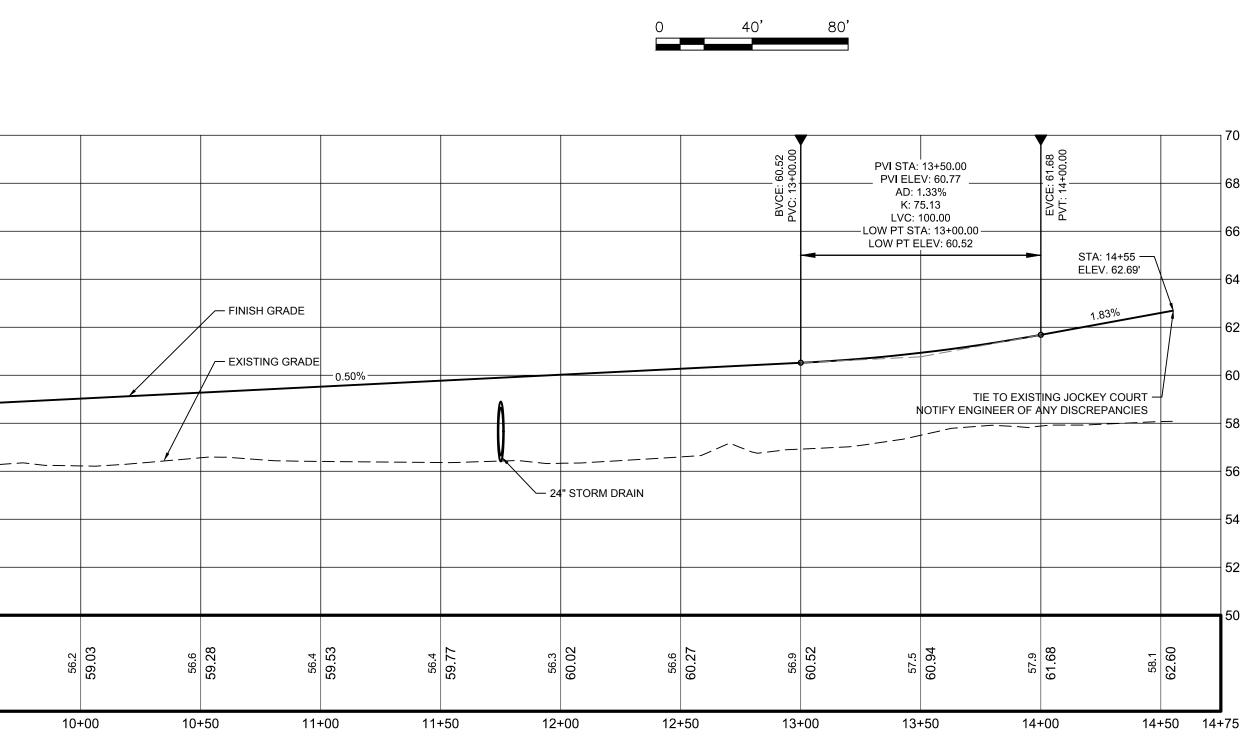






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FLOODWAY



FEMA FLOOD LINE ------ LIMIT OF DISTURBANCE

Notes

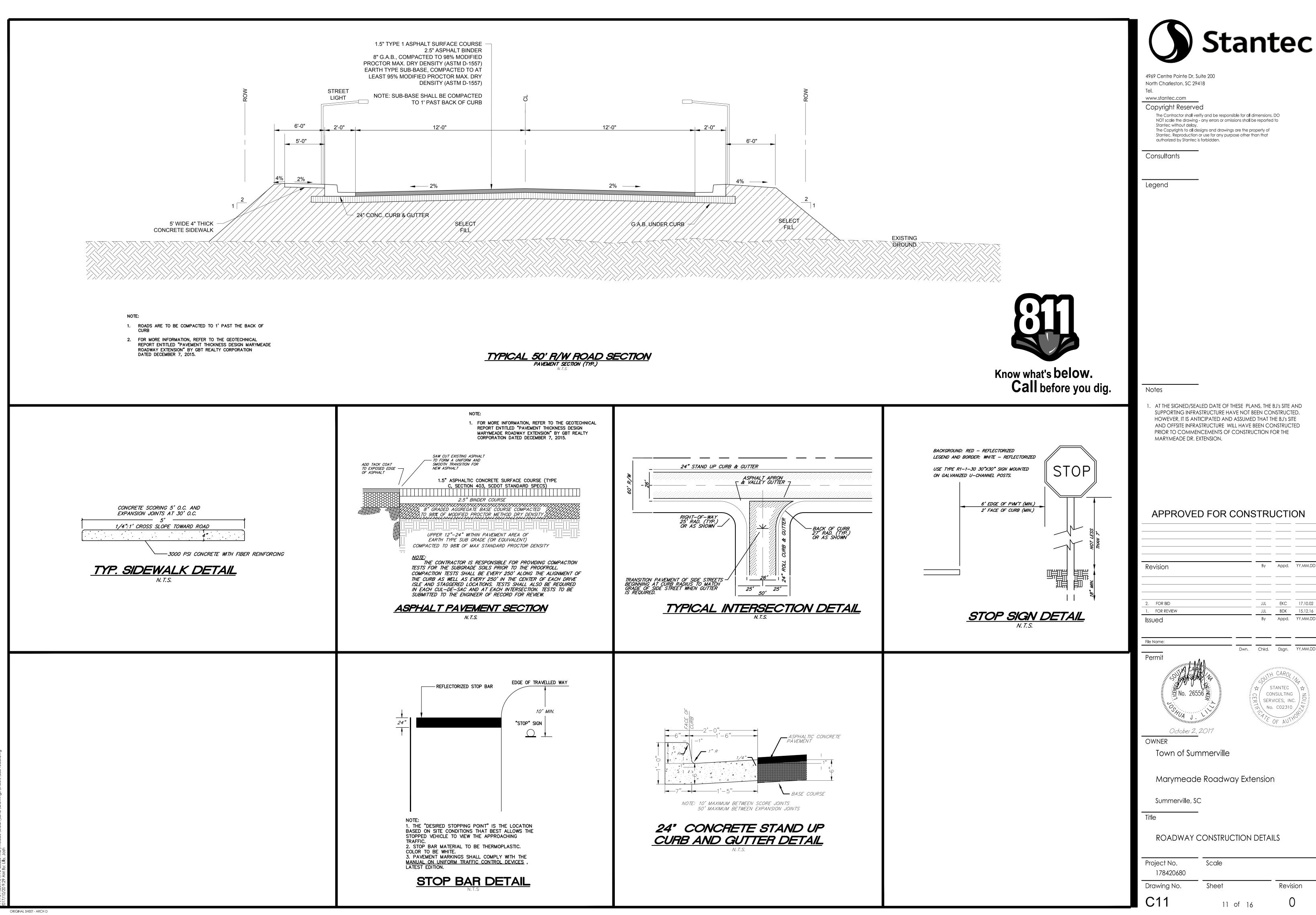
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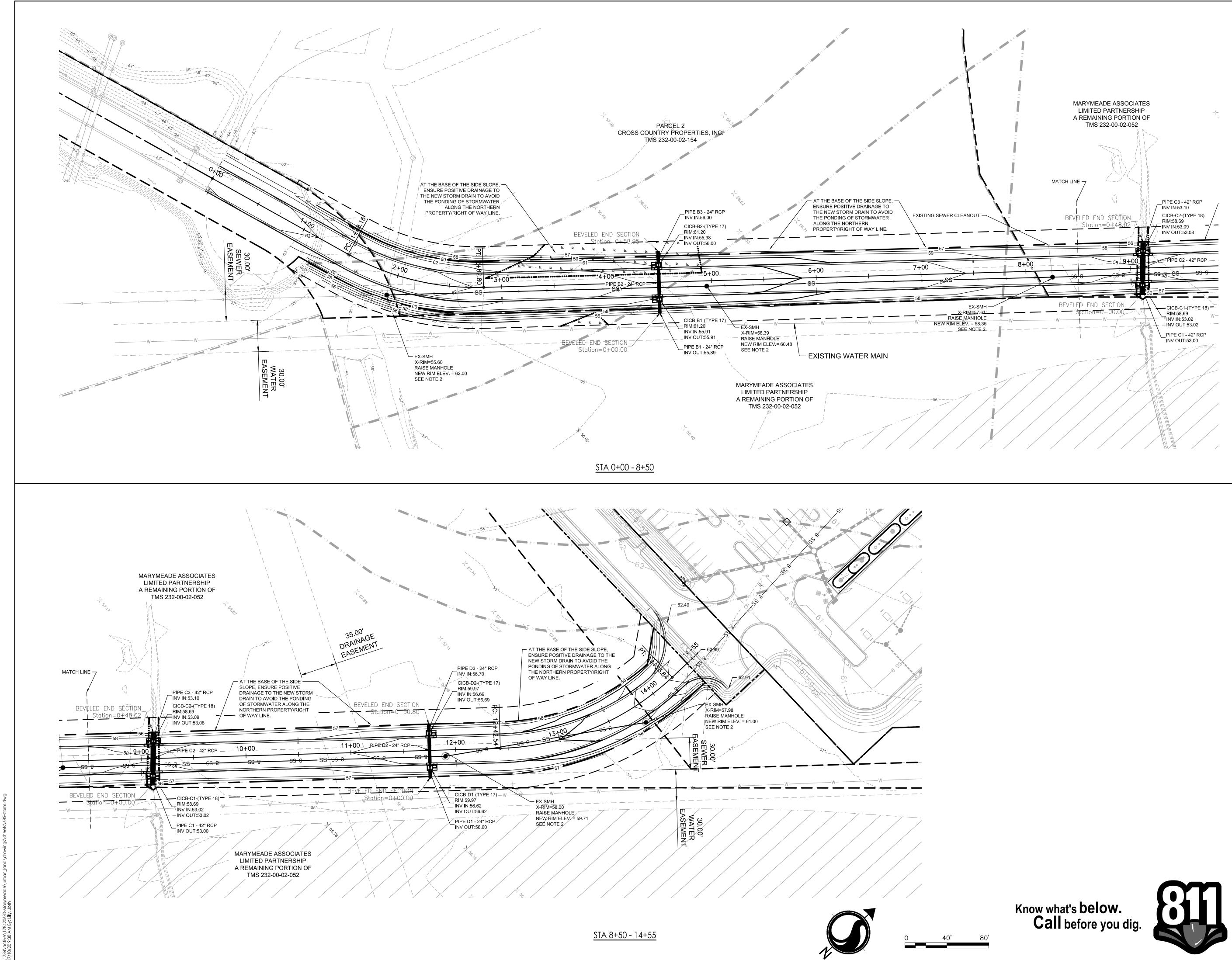
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2. FOR BID		JJL	EKC	17.10.02
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2. FOR BID 1. FOR REVIEW			JJL JJL	EKC BDK	17.10.02
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Drawing No. S	heet			Revis	sion





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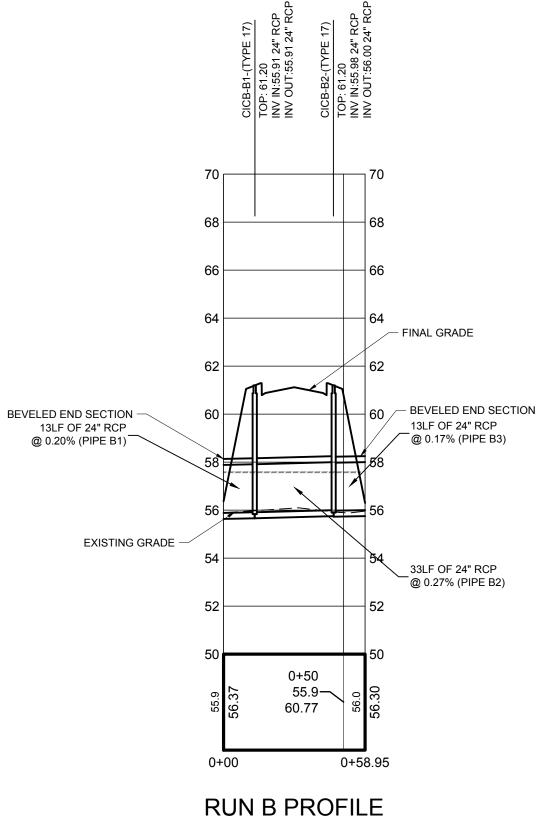
Notes

- ALL SEWER MANHOLES TO BE RAISED TO BE FLUSH WITH THE FINISH GRADE ELEVATION. SEE DETAIL. ON SEWER MANHOLES THAT NEED TO BE RAISED, THERE CAN NOT BE MORE THAN 18" OF RISER BETWEEN THE MANHOLE CONES AND THE BOTTOM OF THE FRAME/COVER. EXISTING MANHOLE CONE TO BE
- REPLACED WITH A TALLER CONE OR A REPLACED WITH A NEW RISER SECTION UNDER THE EXISTING CONE. ALL STORMWATER INLETS TO BE FITTED WITH THE
- FLEXSTORM PURE INLET FILTERS. PROVIDE 6 TOTAL. AT THE SIGNED/SEALED DATE OF THESE PLANS, THE BJ'S SITE AND SUPPORTING INFRASTRUCTURE HAVE NOT BEEN CONSTRUCTED. HOWEVER, IT IS ANTICIPATED AND ASSUMED THAT THE BJ'S SITE AND OFFSITE INFRASTRUCTURE WILL HAVE BEEN CONSTRUCTED PRIOR TO COMMENCEMENTS OF CONSTRUCTION FOR THE MARYMEADE DR. extension.

APPROVED FOR CONSTRUCTION

Revision			By	Appd.	YY.MM.DD
2. FOR BID			JJL	EKC	17.10.02
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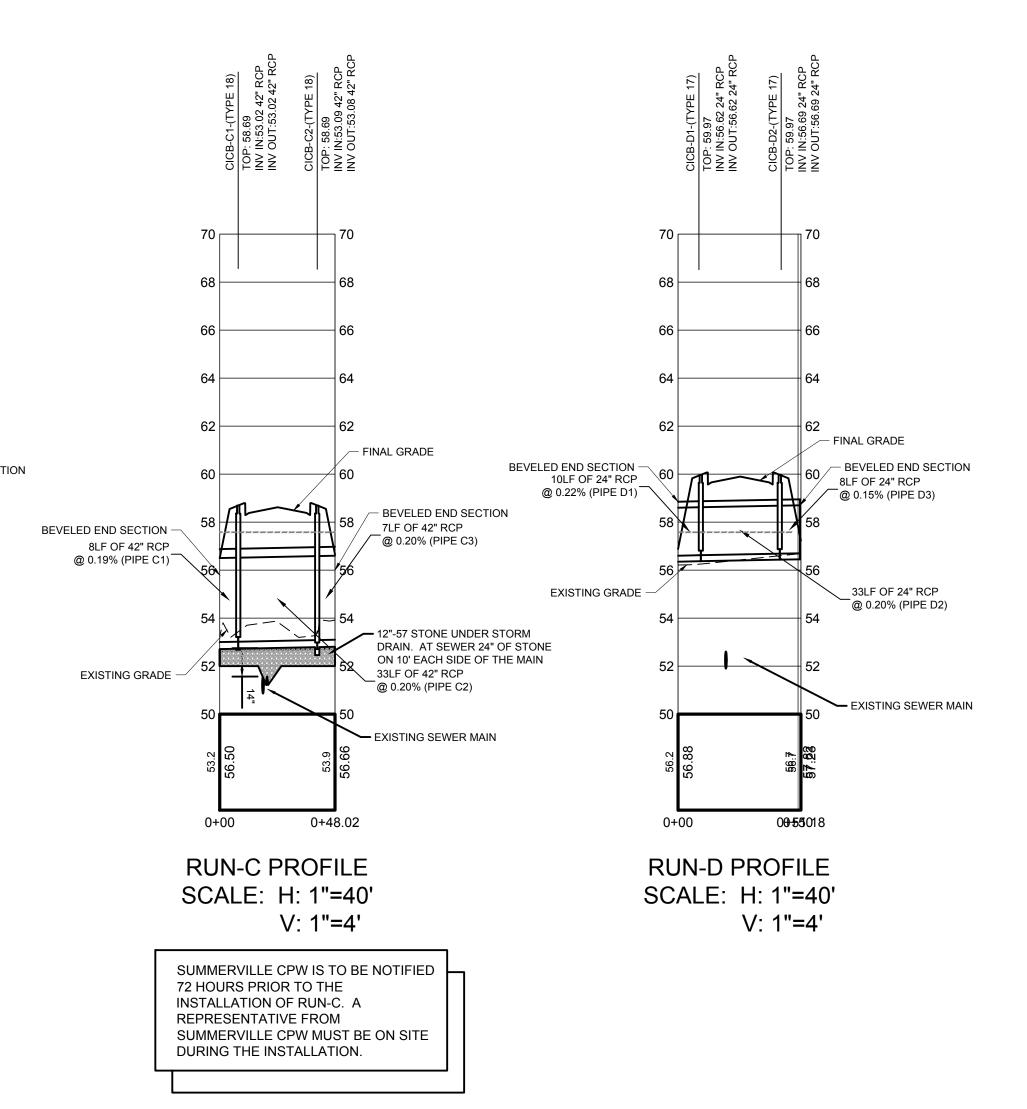
KUN B PROFILE SCALE: H: 1"=40' V: 1"=4'

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\active\178420680-Marymeade\urban_land\drawings\sheets\685-storm.dv 120.0-30.6.M Bvr 1-111v _ loch

ORIGINAL SHEET - ARCH D





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----- 25-YR HYDRAULIC GRADE LINE

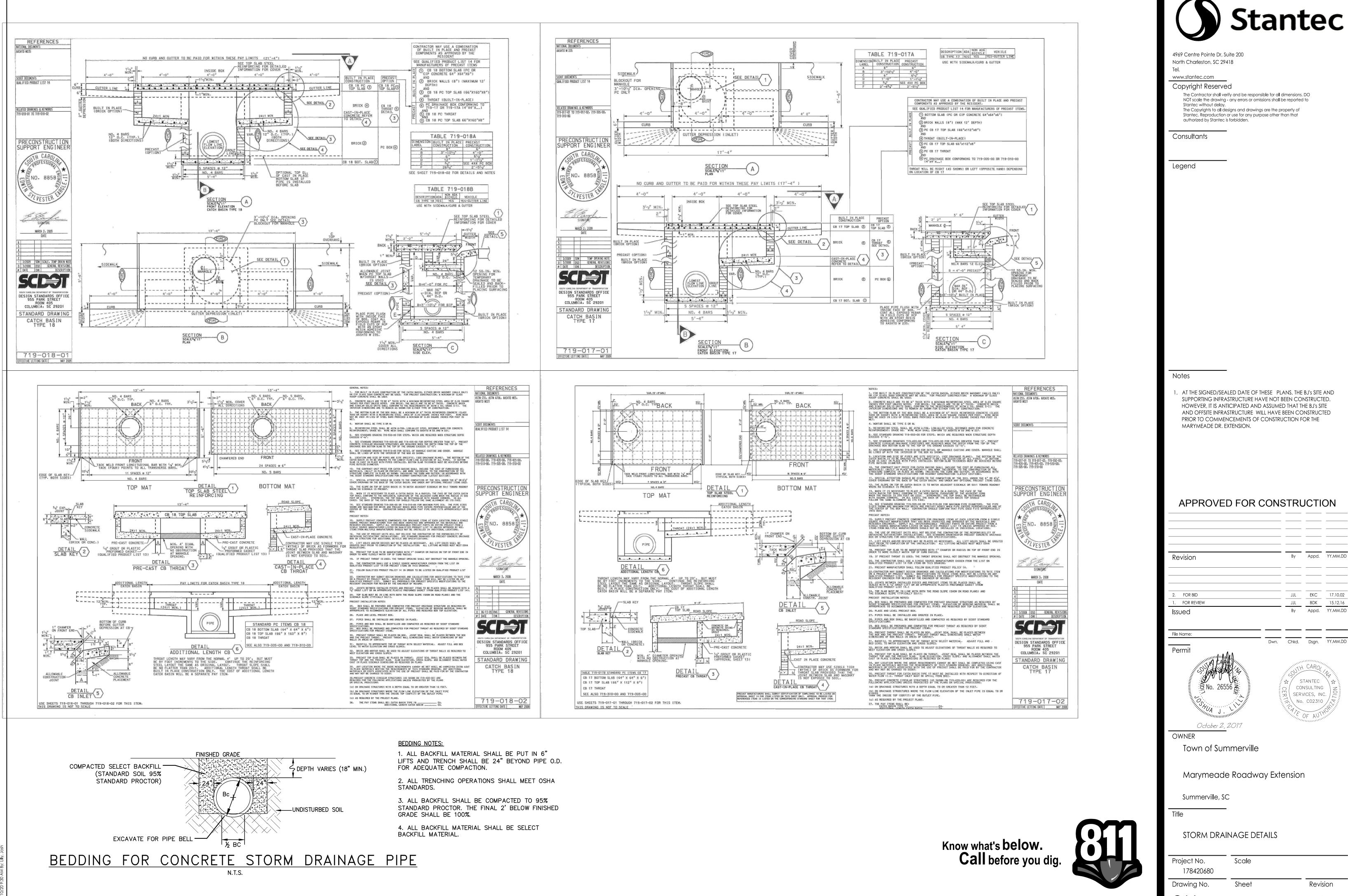
Notes

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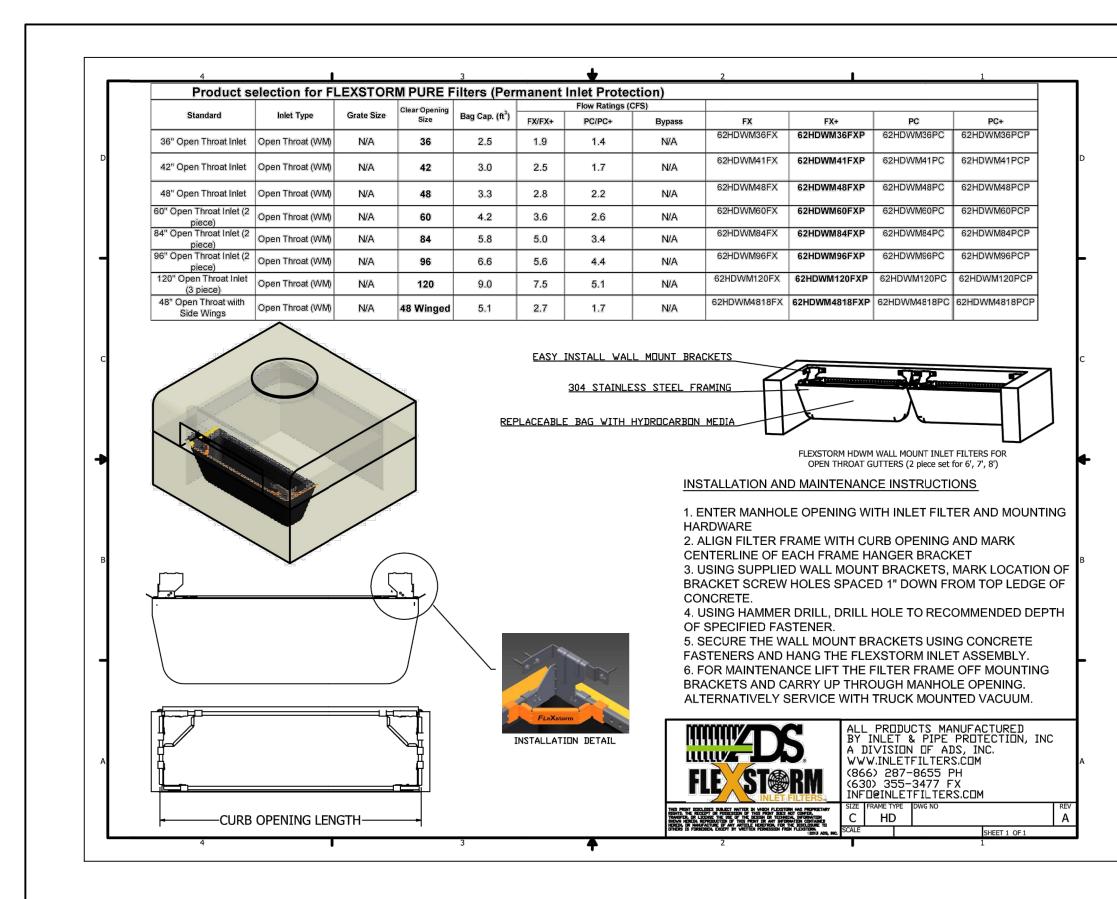
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2. FOR BID 1. FOR REVIEW		JJL JJL	EKC BDK	17.10.02
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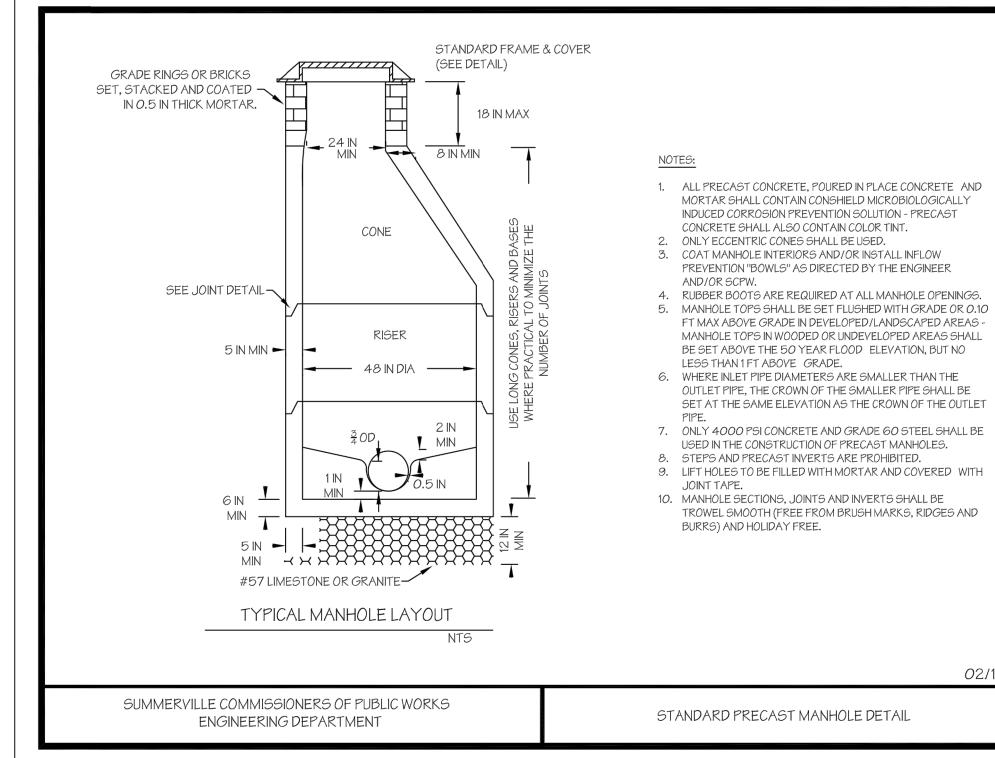
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ORIGINAL SHEET - ARCH D





02/14/11



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Notes

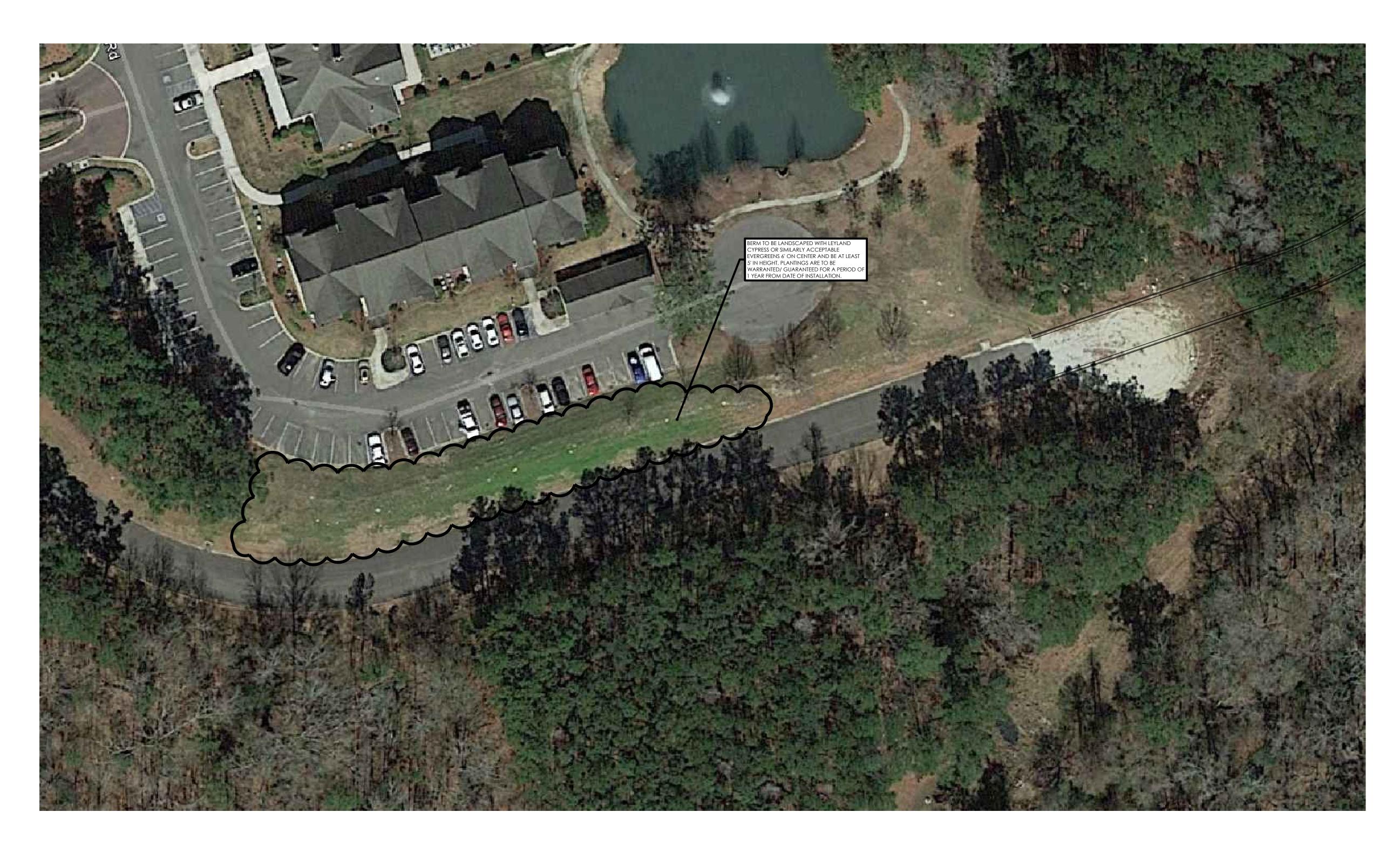
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Revision		By	Appd.	YY.MM.DD
2. FOR BID 1. FOR REVIEW ISSUED		JJL JJL By	EKC BDK Appd.	17.10.02 15.12.16 YY.MM.DD
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	PLAN	
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2. FOR BID 1. FOR REVIEW			 JJL	EKC BDK	17.10.02
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