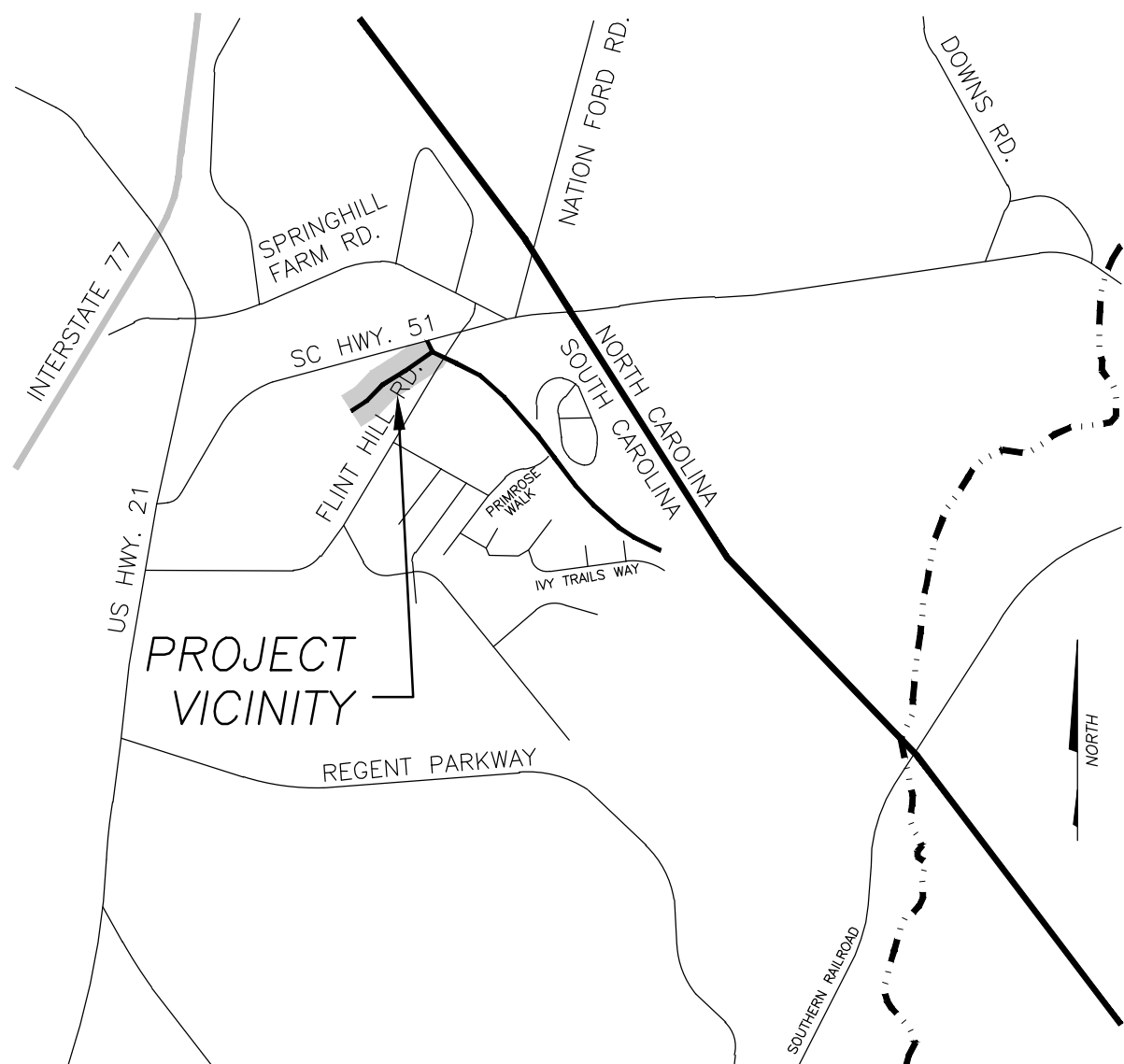


V:\GT35-400 - Carolina Container Gravity Sewer\GT35-400.dwg



LOCATION MAP

SCALE: NTS

UTILITY PROVIDERS:

WATER/SEWER/ELECTRIC

City of Rock Hill  
155 Johnston Street  
Rock Hill, S.C. 29730  
(803) 329-7000

Contact: Scott Turner (water/sewer)  
David Hope (electric)

CABLE/INTERNET/TELEPHONE

Comporium Communications  
P.O. Box 470  
Rock Hill, S.C. 29730

Contact: Sam Prete (803-326-6160)  
John Collins (803-487-6675)

NATURAL GAS

York County Natural Gas  
979 W. Main Street  
Rock Hill, S.C. 29730  
(803) 329-5255

Contact: Stephen Comer

REVISION RECORD TABLE

| No. | Date      | Description                      | By  |
|-----|-----------|----------------------------------|-----|
| 1   | 5/23/2019 | REVISED PER YORK COUNTY COMMENTS | ASH |
| 2   | 3/10/2023 | REVISED PER YORK COUNTY REQUEST  | TWD |
| 3   | 9/11/2023 | REVISED PER YORK COUNTY COMMENTS | TWD |

# CONSTRUCTION DRAWINGS FOR CAROLINA CONTAINER GRAVITY SEWER

LOCATED IN  
YORK COUNTY, SOUTH CAROLINA  
FORT MILL TOWNSHIP  
COUNCIL DISTRICT #1

THIS SET IS CURRENT THROUGH SHEET DATE 9/11/2023



COUNTY COUNCIL

Christi Cox, Chairwoman  
Tom Audette  
Allison Love  
Tommy Adkins  
William "Bump" Roddey  
Debi Cloninger

SCDHEC Permit to Construct/Operate # xxxxxxxx

System Inventory List

| System Inventory List          |      |
|--------------------------------|------|
| 4' Diameter Manhole            | 9    |
| 5' Diameter Manhole (Doghouse) | 1    |
| 8" SDR35 PVC Pipe              | 1466 |
| 8" Ductile Iron Pipe           | 102  |

YORK COUNTY ENGINEERING DEPARTMENT  
POST OFFICE BOX 148  
6 SOUTH CONGRESS STREET  
YORK, SOUTH CAROLINA 29745  
(803) 684-8571

ENGINEERING FIRM:

ADDRESS:

PHONE:

FAX:

CONTACT:

CLIENT:

ADDRESS:

PHONE:

FAX:

CONTACT:

ESP ASSOCIATES, INC.

3475 LAKEMONT BLVD.

FORT MILL, SC 29708

(803) 802-2440

(802) 802-2515

ANDREW MARTIN, PE

YORK COUNTY ENGINEERING DEPT.

6 S CONGRESS ST.

YORK, SC 29745

(803) 818-5791

(803) 684-8596

BARRY MCKINNON, PE

SHEET LIST TABLE

| SHEET NUMBER | SHEET TITLE                            |
|--------------|----------------------------------------|
| C0.0         | COVER SHEET                            |
| C1.0         | SITE NOTES                             |
| C2.0         | OVERALL PROJECT MAP                    |
| C2.1         | SSWR PLAN PROFILE (SHEET 1 of 2)       |
| C2.2         | SSWR PLAN PROFILE (SHEET 2 of 2)       |
| C2.3         | SANITARY SEWER DETAILS (SHEET 1 OF 2)  |
| C2.4         | SANITARY SEWER DETAILS (SHEET 2 OF 2)  |
| C3.0         | EROSION CONTROL DETAILS (SHEET 1 OF 2) |
| C3.1         | EROSION CONTROL DETAILS (SHEET 2 OF 2) |

APPLICANT'S CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I hereby certify that, to the best of my knowledge, these plans contain all information required by Chapter 152 - Stormwater Management and Sediment Control of the York County Code of Ordinances and as referenced by this application. I hereby certify that all land disturbing activities including clearing, grading, construction and/or development will be done pursuant to this plan and agree to indemnify any person damaged by failure to comply with the approved plan. County and state authorities will be allowed to enter upon the project site at any reasonable time provided they present appropriate credentials.

9/9/2023

DATE

*Chris Turner*

PERMIT APPLICANT

DESIGN PROFESSIONAL'S CERTIFICATION

I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000. I also certify that this plan is designed to contain sediment on the property concerned and to provide for the control of stormwater runoff from the property and that, to the best of my knowledge and belief, all the provisions are in accordance with Chapter 152 - Stormwater Management and Sediment Control of the York County Code of Ordinances.

9/12/23

Date

*Debi Cloninger*

Registered Landscape Architect  
Registered Tier B Land Surveyor  
Registered Professional Engineer

APPROVAL STAMP/PERMIT LOCATION TO BE COMPLETED BY YORK COUNTY

ESP ASSOCIATES, INC.  
P.O. Box 7030  
Charlotte, NC 28241  
3475 Lakemont Blvd  
Fort Mill, SC 29708  
(803) 802-2440  
(802) 802-2515  
www.espassociates.com



| NO. | DATE      | REVISION                         |
|-----|-----------|----------------------------------|
| 1   | 5/23/2019 | REVISED PER YORK COUNTY COMMENTS |
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|     |           |                                  |
|     |           |                                  |
|     |           |                                  |

York County  
Carolina Container Gravity Sewer

COVER SHEET

CONSTRUCTION  
SET

Project Manager:  
Andrew Martin, PE, CFM

Drawn By Checked By  
TWD BAM

Date: 9/11/2023

Scale: Varies

Engineering Project No.:  
GT35.400

Drawing No.:  
C0.0



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SANITARY SEWER GENERAL NOTES

- 1) ALL CONSTRUCTION AND MATERIALS SHALL BE IN GENERAL ACCORDANCE WITH APPLICABLE STATE, FEDERAL AND LOCAL REGULATIONS, THE MOST RECENT YORK COUNTY GOVERNMENT WATER & SEWER DEPARTMENT SPECIFICATIONS AND SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC) REGULATIONS.
- 2) CONSTRUCTION ON THIS SITE IS AUTHORIZED BY PERMITS ISSUED BY THE SCDHEC. THE WORK IS SUBJECT TO INSPECTION AT ALL TIMES BY REPRESENTATIVES OF SCDHEC, YORK COUNTY AND THE ENGINEER OF RECORD. THE PERMITS REQUIRE CERTIFICATION OF COMPLETION BY THE ENGINEER OF THE SEWER SYSTEM PRIOR TO ISSUANCE OF FINAL OPERATIONAL APPROVAL BY THE SCDHEC.
- 3) CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH ENGINEER, YORK COUNTY, SCDOT AND ANY OTHER INTERESTED PARTIES WITH A REQUIRED MINIMUM OF FIVE (5) WORKING DAYS NOTIFICATION PRIOR TO PRE-CONSTRUCTION MEETING.
- 4) CONTRACTOR SHALL CONTACT YORK COUNTY 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- 5) CONTRACTOR IS RESPONSIBLE AT CONTRACTOR'S EXPENSE FOR ENSURING AND OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION. THESE PERMITS MAY INCLUDE, BUT NOT LIMITED TO: GRADING, DEMOLITION, BLASTING, ZONING, BUILDING, DRIVEWAY, DETENTION, SUBDIVISION SPECIAL USE, WATER AND SEWER PERMITS AND APPROVALS.
- 6) CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTACTING ALL APPROPRIATE UTILITIES AND ENSURING THAT UTILITIES ARE LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION AS REQUIRED BY SOUTH CAROLINA LAW. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCY OR CONFLICTS PRIOR TO CONSTRUCTION.
- 7) PROJECT PHASE 1 IS LOCATED WITHIN FEMA FLOOD ZONE X PER FEMA FIRM MAP# 45091C0208F, EFFECTIVE DATE MAY 16, 2017.
- 8) CONNECTION TO ANY EXISTING LINES SHALL BE BY THE CONTRACTOR IN THE PRESENCE OF YORK COUNTY INSPECTION PERSONNEL. PLUG NEW CONNECTION UNTIL CONSTRUCTION AND TESTING HAVE BEEN COMPLETED, INSPECTED BY THE ENGINEER OF RECORD AND YORK COUNTY, AND FINAL CONNECTION HAS BEEN AUTHORIZED.
- 9) CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR REPAIR AND REPLACEMENT OF FENCES, MAILBOXES, DRIVEWAYS, FLOWER BEDS AND ANY/OR SIMILAR STRUCTURES DISTURBED AND/OR DAMAGED DURING CONSTRUCTION.
- 10) YORK COUNTY PROHIBITS ANY AND ALL PLANTING OF TREES AND/OR SHRUBBERY OR BUILDING OF ANY STRUCTURE ON OR WITHIN SANITARY SEWER EASEMENT AREAS.
- 11) CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE LIMITS SHOWN ON THE PLANS. ALL TIMBER, BRUSH ROOTS, STUMPS, TREES, OTHER VEGETATION AND DEMOLITION DEBRIS REMOVED SHALL BECOME THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF PROPERLY BY REMOVAL FROM PROJECT SITE. THE CONTRACTOR MAY, WITH PRIOR WRITTEN APPROVAL FROM YORK COUNTY, DISPOSE OF ORGANIC MATERIAL ONSITE BY CHIPPING/MULCHING ONLY.
- 12) APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE OR DISTURB ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT DISTURBANCE BEYOND THE PROJECT LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE PROPERTY OWNER(S).
- 13) ALL DISTURBED AREAS SHALL BE ADEQUATELY SEEDED AND STRAWED AFTER COMPLETION OF PIPE INSTALLATION. ALL NEWLY STABILIZED AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES AND/OR TESTING SHALL BE RE-SEEDED AND RE-STRAWED AS REQUIRED.
- 14) WHEN UNDERGROUND OBSTRUCTIONS NOT SHOWN ON THE CONSTRUCTION DRAWINGS (ROCK, PIPING, ETC.) ARE ENCOUNTERED, THE CONTRACTOR SHALL PROMPTLY REPORT THE CONFLICT TO THE ENGINEER AND YORK COUNTY. ALL CHANGES MUST BE APPROVED IN WRITING BY THE ENGINEER AND APPROVED BY YORK COUNTY BEFORE CONSTRUCTION CAN PROCEED.
- 15) SANITARY SEWER GRAVITY MAINS SHALL BE POLYVINYL CHLORIDE (PVC), ASTM D3034 SDR 35 FOR 4-INCH THROUGH 15-INCH DIAMETERS AND ASTM F-679 FOR 18-INCH THROUGH 24-INCH DIAMETERS, WITH STONE BEDDING EXCEPT WHERE DUCTILE IRON PIPE OR LONG SPAN STEEL PIPE IS REQUIRED.
- 16) DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF AWWA STANDARD C151 AND SHALL HAVE A CEMENT MORTAR LINING OF STANDARD THICKNESS IN ACCORDANCE WITH AWWA C104. DUCTILE IRON PIPE EXTERIOR SHALL BE BITUMINOUS COATED A MINIMUM OF 1 MM THICK.
- 17) DUCTILE IRON PIPE SHALL BE FURNISHED WITH PUSH-ON JOINTS IN ACCORDANCE WITH AWWA C111. DUCTILE IRON PIPE WITHIN STEEL ENCASEMENT PIPES SHALL BE FURNISHED WITH FIELD LOK GASKET OR APPROVED EQUIVALENT IN ACCORDANCE WITH AWWA C111.
- 18) WHEN A SEWER MAIN OR LATERAL CROSSES OR IS PARALLEL TO AN EXISTING WATER MAIN, THE CONTRACTOR SHALL PROVIDE DUCTILE IRON PIPE, INCLUDING LATERALS, FOR THE SEWER MAIN AS FOLLOWS:
- A) WHENEVER IT IS NECESSARY FOR A SEWER MAIN TO CROSS UNDER A WATER MAIN WITH LESS THAN 18-INCHES OF VERTICAL SEPARATION, THE SEWER AND WATER MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- B) WHENEVER IT IS NECESSARY FOR A SEWER MAIN TO CROSS OVER A WATER MAIN, THE SEWER AND WATER MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- C) SEWER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED WATER MAINS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT THIS SEPARATION. IN THIS CASE, THE SEWER MAIN SHALL BE LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER. IF THESE CONDITIONS CANNOT BE MET, THE SEWER AND WATER MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
- 19) EXISTING UTILITY CROSSINGS SHALL BE AS FOLLOWS:
- A) WHEN A SEWER MAIN CROSSES UNDER OTHER UTILITY LINES (GAS, TELEPHONE CONDUIT, STORM DRAIN, ETC.) THERE SHALL BE TWO (2) FEET OF SEPARATION BETWEEN THE TOP OF THE SEWER MAIN AND THE BOTTOM OF THE UTILITY. STONE BEDDING SHALL BE USED FROM 6-INCHES BELOW THE SEWER TO 12-INCHES ABOVE THE SEWER FROM ONE (1) FOOT OUTSIDE THE UTILITY TRENCH. IF THIS CONDITION CANNOT BE MET, THE SEWER MAIN SHALL BE DUCTILE IRON PIPE A DISTANCE OF ONE (1) FOOT OUTSIDE THE UTILITY TRENCH, BUT NOT LESS THAN 10 FEET IN LENGTH.
- B) WHEN A SEWER MAIN CROSSES OVER OTHER UTILITY LINES (GAS, TELEPHONE CONDUIT, STORM DRAIN, ETC.) THERE SHALL BE ONE (1) FOOT OF SEPARATION BETWEEN THE TOP OF THE UTILITY AND THE BOTTOM OF THE SEWER. IF THIS CONDITION CANNOT BE MET, THE SEWER MAIN SHALL BE DUCTILE IRON PIPE A DISTANCE OF ONE (1) FOOT OUTSIDE THE UTILITY TRENCH, BUT NOT LESS THAN 10 FEET IN LENGTH.
- 20) ALL SEWER LINES IN EXCESS OF 16 FEET IN DEPTH OR WHERE LESS THAN 36-INCHES MINIMUM COVER CAN NOT BE MAINTAINED SHALL BE CEMENT LINED DUCTILE IRON PIPE FOR A LENGTH NO LESS THAN THE DISTANCE OVER 16 FEET OR LESS THAN 36-INCHES COVER.
- 21) A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE. BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE. STONES, OTHER THAN CRUSHED BEDDING, SHALL NOT COME INTO CONTACT WITH THE PIPE AND SHALL NOT BE WITHIN SIX (6) INCHES OF THE PIPE.
- 22) ALL SANITARY SEWER MANHOLES SHALL BE PRE-CAST REINFORCED CONCRETE WITH INTEGRALLY CAST WATERTIGHT CONNECTIONS IN ACCORDANCE WITH YORK COUNTY GOVERNMENT WATER & SEWER DEPARTMENT STANDARD DETAIL DRAWINGS & SPECIFICATIONS.
- 23) MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 4 FEET FOR INVERT DEPTHS LESS THAN 20 FEET. MANHOLES WITH INVERT DEPTHS OF 20 FEET AND GREATER SHALL HAVE A MINIMUM INSIDE DIAMETER OF 5 FEET. THE MINIMUM ACCESS DIAMETER FOR ALL MANHOLES SHALL BE 22-INCHES.

24) MANHOLE FRAMES AND COVERS SHALL BE DEWEY BROTHERS RCR 2010, VULCAN VM-83, US FOUNDRY OR APPROVED EQUAL.

25) WATERTIGHT MANHOLE FRAMES AND COVERS SHALL BE PROVIDED AS INDICATED ON THE PLANS. WHERE WATERTIGHT FRAMES AND COVERS ARE SPECIFIED, THE WATERTIGHT SEAL AND COVER SHALL BE ACCOMPLISHED BY MEANS OF A RUBBER GASKET. WATERTIGHT FRAMES AND COVERS SHALL BE DEWEY BROTHERS RCR 2010, VULCAN VM-83, US FOUNDRY OR APPROVED EQUAL.

26) ALL OFF-SITE SANITARY SEWER MANHOLES SHALL EXTEND A MINIMUM OF 2 FEET ABOVE FINISHED GRADE.

27) MANHOLES EXTENDING ABOVE FINAL GRADE SHALL HAVE THE FRAME BOLTED TO THE MANHOLE.

28) ALL CREEK CROSSING METHODS OF DETAIL WORK TO BE PERFORMED MUST BE APPROVED BY THE ENGINEER AND MUST HAVE PRIOR FEDERAL, STATE AND/OR LOCAL REQUIRED APPROVAL.

29) CONTRACTOR SHALL SUBMIT FIVE (5) COPIES OF SHOP DRAWINGS FOR ALL MATERIALS TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

30) ALL SEWER MAINS SHALL BE TESTED FOR DEFLECTION WITH A 5% MANDREL NOT LESS THAN 30-DAYS AFTER COMPLETION OF BACKFILL. PERFORM LOW PRESSURE AIR TESTING IN ACCORDANCE WITH ASTM C828 AND C924 ON ALL SEWER MAINS.

31) ALL TRENCHES/EXCAVATIONS, OUTSIDE EXISTING/FUTURE ROAD RIGHT-OF-WAYS, SHALL BE BACKFILLED WITH SUITABLE SOILS COMPACTED TO A MINIMUM DRY DENSITY OF 90% OF THE SOILS MAXIMUM DRY DENSITY BASED ON A STANDARD PROCTOR (ASTM D-698) FROM THE TOP OF THE STONE BEDDING TO SUBGRADE.

32) ALL TRENCHES/EXCAVATIONS WITHIN THE PRIMROSE WALK EASEMENT SHALL BE BACKFILLED WITH SUITABLE SOILS COMPACTED TO A MINIMUM DRY DENSITY OF 95% OF THE SOILS MAXIMUM DRY DENSITY BASED ON A STANDARD PROCTOR (ASTM D-698) FROM THE TOP OF THE STONE BEDDING TO WITHIN 6-INCHES OF SUBGRADE. THE TOP 6-INCHES OF THE SUBGRADE SHALL BE COMPACTED TO 100% OF THE SOILS STANDARD PROCTOR MAXIMUM DRY DENSITY.

33) ALL TRENCHES/EXCAVATIONS WITHIN THE EXISTING FLINT HILL RIGHT-OF-WAY AND EXISTING AND FUTURE SC HWY. 51 RIGHT-OF-WAYS SHALL BE BACKFILLED IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (SCDOT) STANDARD SPECIFICATIONS.

34) YORK COUNTY SHALL CONTRACT WITH A GEOTECHNICAL ENGINEER TO PERFORM ALL COMPACTION TESTING. ALL FAILED TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

35) CONTRACTOR SHALL FURNISH, SECURE AND PROVIDE ALL NECESSARY TESTING MATERIALS, EQUIPMENT, PROCEDURES, AND CERTIFIED LABORATORY TESTING RESULTS FOR USE WITH THE ENGINEER'S FINAL CERTIFICATION OF COMPLETION.

36) ANY ASPHALT REPAIRS OR REPLACEMENTS SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PAY FOR ALL NECESSARY ASPHALT PAVEMENT. THERE IS NO ASPHALT DESIGN OR REPLACEMENT AS PART OF THIS PROJECT.

37) THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH SEWER AS-BUILTS (LOCATION, ELEVATION, LENGTH AND SLOPE) PREPARED BY A REGISTERED LAND SURVEYOR.

38) ENGINEER OF RECORD SHALL SECURE FINAL OPERATIONAL APPROVAL SCDHEC PRIOR TO ACTIVATION OF THE SYSTEM.

CONNECTION TO EXISTING SEWERS

TIE-INS TO EXISTING ACTIVATED SEWER LINES WILL BE ALLOWED WHEN PROPER PRECAUTIONS ARE TAKEN TO PROTECT THE EXISTING MAIN. TIE-INS TO EXISTING UNACTIVATED SEWER LINES NOT INSTALLED UNDER THE SAME CONTRACT WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM ALL PARTIES INVOLVED (YORK COUNTY, CONTRACTORS, CONTRACT HOLDERS, ETC.). THE CONTRACTOR SHALL BE REQUIRED TO INSTALL WATERTIGHT MASONRY PLUGS IN THE PROPOSED PIPELINE AT THE EXISTING MANHOLE AND AT THE FIRST PROPOSED MANHOLE UNTIL ALL CONSTRUCTION IS COMPLETED AND TESTING BEGUN. IF THE PROPOSED SEWER DOES NOT BEGIN AT AN EXISTING MANHOLE, A STRADDLE TYPE MANHOLE AS SHOWN ON THE STANDARD DETAILS SHALL BE CONSTRUCTED OVER (AND AROUND) THE UNDISTURBED EXISTING PIPELINE AND THE PROPOSED PIPELINE PLUGGED AS SPECIFIED. THE EXISTING PIPELINE SHALL NOT BE BROKEN-OUT AND THE NEW INVERT FORMED UNTIL ALL TESTING HAS BEEN SUCCESSFULLY COMPLETED. ANY CONNECTION WITH 18-INCH AND SMALLER PIPE AT AN EXISTING PRECAST-IN-PLACE MANHOLE SHALL REQUIRE THE CONTRACTOR TO CORE THE NECESSARY OPENING THROUGH THE MANHOLE WALL. CONNECTIONS TO EXISTING MANHOLES WITH 21-INCH AND LARGER PIPE MAY BE CORED OR SAWED AS APPROVED BY THE ENGINEER.

TEMPORARY WATERTIGHT PLUGS: THE CONTRACTOR SHALL INSTALL TEMPORARY WATERTIGHT PLUGS IN THE PROPOSED SEWER LINE AT ANY MANHOLE THAT IS INCOMPLETE. AT THE OPEN END OF THE PIPELINE PRIOR TO LEAVING THE JOB SITE DAILY AND ELSEWHERE AS DICTATED BY GOOD ENGINEERING AND CONSTRUCTION PRACTICES. ALL INSTALLED PIPE SHALL BE BACKFILLED OR OTHERWISE SECURELY TIED DOWN TO PREVENT FLOTATION IN THE EVENT WATER ENTERS OR RISES IN THE TRENCH. THE PLUGS INSTALLED SHALL PREVENT INFILTRATION OR THE INTRODUCTION OF ANY FOREIGN MATERIAL INTO EITHER THE EXISTING OR PROPOSED SYSTEMS. THE COUNTY WILL NOT ACCEPT ANY PIPELINE OR MANHOLE WHICH CONTAINS ANY SILT, SEDIMENTATION OR OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL AT HIS OWN EXPENSE FLUSH, OR OTHERWISE CAUSE THE LINE (AND MANHOLES) TO BE CLEANED OUT WITHOUT ANY DISCHARGE INTO THE EXISTING SYSTEM. UPON COMPLETION OF ALL CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL WATERTIGHT PLUGS. IN THE SEQUENCE NECESSARY TO ALLOW TESTING AND SUBSEQUENT ACTIVATION, ALL UNDER THE DIRECTION OF THE ENGINEER.

SCHEDULING: WHEN THE FLOW OF AN EXISTING SEWER MUST BE INTERRUPTED AND/OR BYPASSED, THE CONTRACTOR SHALL, BEFORE BEGINNING ANY CONSTRUCTION, SUBMIT A WORK SCHEDULE WHICH WILL MINIMIZE THE INTERRUPTION AND/OR BYPASSING OF WASTEWATER FLOW DURING CONSTRUCTION. THE SCHEDULE MUST BE APPROVED BY THE APPROPRIATE CONTROLLING AGENCIES AND ENGINEER AND MAY REQUIRE NIGHT, HOLIDAY, AND/OR WEEKEND WORK.

BYPASS PUMPING: WHEN BY-PASS PUMPING, AN IDENTICAL STANDBY PUMP SHALL BE ON SITE IN THE EVENT OF FAILURE OF THE PRIMARY PUMP. IF, AT ANY TIME DURING CONSTRUCTION, EFFLUENT FROM THE EXISTING SEWER IS NOT FULLY CONTAINED BY THE BYPASS SYSTEM, GRAVITY SERVICE SHALL BE RESTORED BY A TEMPORARY TIE TO THE NEW CONSTRUCTION AND WORK SHALL BE SUSPENDED UNTIL THE PROBLEM IS RESOLVED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES LEVED AS A RESULT OF EFFLUENT REACHING THE WATERS OF THE STATE AND/OR WETLANDS. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY HIS METHOD OF HANDLING SEWER FLOWS DURING CONSTRUCTION BY PUMPING AT PEAK FLOWS FOR 1 HOUR AS APPROVED BY THE ENGINEER.

ABBREVIATIONS

|         |                                                               |
|---------|---------------------------------------------------------------|
| ASTM    | AMERICAN SOCIETY FOR TESTING AND MATERIALS                    |
| AWWA    | AMERICAN WATER WORKS ASSOCIATION                              |
| CB      | CATCH BASIN                                                   |
| CL      | CENTERLINE                                                    |
| CONST   | CONSTRUCTION                                                  |
| DB      | DEED BOOK                                                     |
| DIP     | DUCTILE IRON PIPE                                             |
| DIA     | DIAMETER                                                      |
| ESMT    | EASEMENT                                                      |
| EXIST   | EXISTING                                                      |
| FES     | FLARED END SECTION                                            |
| INV     | INVERT                                                        |
| LF      | LINEAR FEET                                                   |
| MH      | MANHOLE                                                       |
| OHWM    | ORDINARY HIGH WATER MARK                                      |
| PB      | PLAT BOOK                                                     |
| PG      | PAGE                                                          |
| PROP    | PROPOSED                                                      |
| PVC     | POLYVINYL CHLORIDE                                            |
| RCF     | REINFORCED CONCRETE PIPE                                      |
| R/W     | RIGHT OF WAY                                                  |
| SAN SWR | SANITARY SEWER                                                |
| SCDHEC  | SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL |
| SCDOT   | SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION                   |
| SSMH    | SANITARY SEWER MANHOLE                                        |
| TEMP    | TEMPORARY                                                     |
| TYP     | TYPICAL                                                       |

CONSTRUCTION SEQUENCE

1. RECEIVE NPDES PERMIT FOR SCDHEC
2. RECEIVE NOTICE TO PROCEED
3. SCHEDULE ON-SITE PRE-CONSTRUCTION MEETING
4. MOBILIZE EQUIPMENT AND MATERIAL
5. INSTALL TEMPORARY EROSION CONTROL MEASURES FROM MH#10 - MH#5
6. INSTALL TEMPORARY STREAM DIVERSION AT STREAM CHANNEL BETWEEN MH#5 - MH#4.
7. INSTALL TEMPORARY EROSION CONTROL MEASURES FROM MH#5 - MH#1
8. OBTAIN THE FINAL LAND DISTURBANCE PERMIT AFTER FINAL GRADING INSPECTION HAS BEEN APPROVED
9. CLEAR AND GRUB PROJECT LIMITS AS REQUIRED
10. INSTALL GRAVITY SEWER (MH#1-MH#10)
11. STABILIZE DOWNSTREAM WORK AREA AS IT IS FINALIZED
12. INSPECT AND TEST INSTALLED DOWNSTREAM INFRASTRUCTURE (MH#1-MH#10)
13. RE-STABILIZE ANY DISTURBED AREAS
14. RECEIVE SCDHEC PERMIT TO OPERATE
15. PLACE NEW SEWER CONNECTION INTO OPERATION (MH#10)
16. INSTALL PROPOSED LATERAL RELOCATIONS TO MH#9, AND DISCONNECT EX. LATERALS FROM PUMP STATION
17. ABANDON LIFT STATION AND REMOVE RETAINING WALL, ELECTRICAL EQUIPMENT, AND EX. SEWER LINE BETWEEN PUMP STATION AND MH#10. (PER ABANDONMENT PLAN)
18. RE-GRADE AREA AFTER REMOVAL OF RETAINING WALL, LIFT STATION, AND ELECTRICAL EQUIPMENT (PER PLANS)
19. STABILIZE ALL REMAINING DISTURBED AREAS
20. UPON APPROVAL, REMOVE TEMPORARY EROSION CONTROL MEASURES
21. FILE FOR NOTICE OF TERMINATION WITH YORK COUNTY APPROVAL

SPILL PREVENTION AND RESPONSE

CLEANUP AND STORAGE PROCEDURES

- 1) IF A SPILL OCCURS, DEMOBILIZE IT AS SOON AS POSSIBLE.
- IF THERE IS A CHANCE THAT THE SPILL COULD ENTER A STORM DRAIN OR SEWER, PLUG THE INLET AND TURN OFF OR DIVERT ANY INCOMING WATER.
- COVER THE SPILL WITH ABSORBENT MATERIAL SUCH KITTY LITTER OR SAWDUST. DO NOT USE STRAW. DISPOSE OF THE USED ABSORBENT PER MANUFACTURER'S INSTRUCTIONS. IF THE SPILL IS FLAMMABLE, DISPOSE OF AS DIRECTED BY THE LOCAL FIRE MARSHAL.
- KEEP THE AREA WELL VENTILATED.
- MINOR SPILLS TYPICALLY INVOLVE SMALL QUANTITIES OF OIL, GASOLINE, PAINT, ETC., WHICH CAN BE CONTROLLED BY THE FIRST RESPONDER AT THE DISCOVERY OF THE SPILL. USE ABSORBENT MATERIALS ON SMALL SPILLS RATHER THAN HOSING DOWN OR BURYING THE SPILL.
- SEMI-SIGNIFICANT SPILLS STILL CAN BE CONTROLLED BY THE FIRST RESPONDER ALONG WITH THE AID OF OTHER PERSONNEL SUCH AS LABORERS AND THE FOREMAN, ETC. THIS RESPONSE MAY REQUIRE THE CESSATION OF ALL OTHER ACTIVITIES.
- CONTAIN SPILLS IMMEDIATELY:
  - IF THE SPILL OCCURS ON PAVED OR IMPERMEABLE SURFACES, CLEAN UP USING "DRY" METHODS (ABSORBENT MATERIALS, CAT LITTER AND/OR RAGS), CONTAIN THE SPILL BY ENCIRCLING WITH ABSORBENT MATERIALS AND DO NOT LET THE SPILL SPREAD WIDELY.
  - IF THE SPILL OCCURS IN DIRT AREAS, IMMEDIATELY CONTAIN THE SPILL BY CONSTRUCTING AN EARTHEN DIKE.
  - IF THE SPILL OCCURS DURING RAIN, TO THE EXTENT THAT IT DOESN'T COMPROMISE CLEAN UP ACTIVITIES, COVER SPILL WITH TARPS OR OTHER MATERIAL TO PREVENT CONTAMINATING RUNOFF.
- SIGNIFICANT OR HAZARDOUS SPILLS THAT CANNOT BE CONTROLLED BY PERSONNEL IN THE IMMEDIATE VICINITY, THE SERVICES OF A SPILL CONTRACTOR OR A HAZ-MAT TEAM SHOULD BE OBTAINED IMMEDIATELY. CONSTRUCTION PERSONNEL SHOULD NOT ATTEMPT TO CLEAN UP THE SPILL UNTIL THE APPROPRIATE AND QUALIFIED STAFF HAS ARRIVED AT THE JOB SITE.
- SPILLS SHOULD NOT BE BURIED OR WASHED WITH WATER.
- USED CLEAN UP MATERIALS, CONTAMINATED MATERIALS, AND RECOVERED SPILL MATERIAL THAT ARE NO LONGER SUITABLE FOR THE INTENDED PURPOSE SHOULD BE STORED AND DISPOSED OF PROPERLY.
- WATER USED FOR CLEANING AND DECONTAMINATION SHOULD NOT BE ALLOWED TO ENTER STORM DRAINS OR WATERCOURSES AND SHOULD BE COLLECTED AND DISPOSED OF AS DESCRIBED IN LIQUID WASTE MANAGEMENT.
- PROPER STORAGE, CLEAN-UP AND SPILL REPORTING INSTRUCTIONS FOR HAZARDOUS MATERIALS STORED OR USED ON THE PROJECT SITE SHOULD BE POSTED AT ALL TIMES IN AN OPEN, CONSPICUOUS AND ACCESSIBLE LOCATION.
- WASTE STORAGE AREAS SHOULD BE KEPT CLEAN, WELL ORGANIZED AND EQUIPPED WITH AMPLE CLEAN-UP SUPPLIES AS APPROPRIATE FOR THE MATERIALS BEING STORED, PERIMETER CONTROLS, CONTAINMENT STRUCTURES, COVERS AND LINERS SHOULD BE REPAIRED OR REPLACED AS NEEDED TO MAINTAIN PROPER FUNCTION.

INSPECTION AND MAINTENANCE

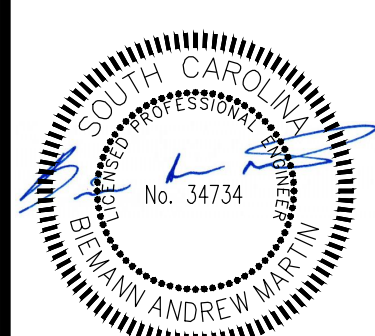
- 1) VERIFY WEEKLY, THAT SPILL CONTROL CLEAN UP MATERIALS ARE LOCATED NEAR MATERIAL STORAGE, UNLOADING AND USE AREAS.
- 2) UPDATE PLANS AND STOCK APPROPRIATE CLEAN-UP MATERIALS WHENEVER CHANGES OCCUR IN THE TYPES OF CHEMICALS USED OR STORED ONSITE.

TO REPORT CHEMICAL SPILLS, OIL SPILLS, OR FISH KILLS CALL OUR TOLL-FREE 24-HOUR EMERGENCY RESPONSE LINE AT 1-888-485-USEP

LIFT STATION ABANDONMENT SEQUENCE

- 1) COMPLETE ALL PROPOSED DOWNSTREAM GRAVITY SEWER MH#1-MH#10 AS SHOWN WITHIN THIS PLAN SET. ALL PROPOSED DOWNSTREAM GRAVITY SEWER SHALL BE INSPECTED AND APPROVED BY YORK COUNTY & SCDHEC PRIOR TO MAKING SANITARY SEWER CONNECTION FROM PROPOSED MH#9 TO EXISTING SS LINE.
- 2) PROVIDE A MINIMUM OF 48 HOURS NOTICE TO YORK COUNTY AND ENGINEER PRIOR TO LIFT STATION ABANDONMENT.
- 3) INSTALL EROSION CONTROL MEASURES AS REQUIRED.
- 4) PLUG THE OUTFLOW FROM EXISTING UPSTREAM SSMH AND PUMP THE INCOMING SEWER FLOW FROM BYPASS PUMP MANHOLE TO MH#8.
- 5) REMOVE EXISTING SS IN DOGHOUSE MH#9 AND PLUG OUTGOING EXISTING LINE. CONSTRUCT INVERT TO DIRECT FLOW TO MH #8.
- 6) INSTALL LATERALS TO MH#8.
- 7) REMOVE BY-PASS PUMPING, SHUT DOWN LIFT STATION AND PLACE NEWLY INSTALLED DOWNSTREAM SEWER INTO OPERATION.
- 8) REMOVE SOLIDS AND WASTE REMAINING IN WET WELL. WET WELL SHALL BE CLEANED BY A LICENSED CONTRACTOR.
- 9) FILL WET WELL WITH CLEAN WATER AND FLUSH ENTIRE LENGTH OF FORCE MAIN WITH CLEAN WATER.
- 10) REMOVE EXISTING ENCLOSURE, SUCTION LIFT PUMPS, VALVES, DISCHARGE PIPING AND OTHER SALVAGEABLE EQUIPMENT. ALL SALVAGED MATERIALS SHALL BE TRANSPORTED BY THE CONTRACTOR TO THE SEWER MAINTENANCE YARD AT THE NEW HERITAGE PUMP STATION.
- 11) REMOVE EXISTING CONTROL PANEL. CONTROL PANEL SHALL BE TRANSPORTED BY THE CONTRACTOR TO THE SEWER MAINTENANCE YARD AT THE NEW HERITAGE PUMP STATION.
- 12) DISCONNECT AND REMOVE EXISTING ELECTRICAL LINES THAT SERVICE THE LIFT STATION. CONTRACTOR SHALL COORDINATE WITH YORK COUNTY AND ELECTRICAL SERVICE PROVIDER FOR REMOVAL OF EXISTING ABOVE AND BELOW GROUND SERVICE LINES.
- 13) ABANDONED-IN-PLACE THE EXISTING OUTFLOW LINE FROM EXIST. SSMH TO THE EXISTING LIFT STATION WET WELL; FILL LINE W/ FLOWABLE FILL.
- 14) REMOVE EXISTING CONCRETE SLAB AROUND WET WELL.
- 15) BREAK DOWN AND REMOVE WET WELL CONCRETE TO A POINT THREE (3) FEET BELOW FINISHED GRADE.
- 16) BREAK OPEN BOTTOM OF WET WELL STRUCTURE. BOTTOM SHALL BE BROKEN TO ALLOW ACCUMULATED MOISTURE TO ADEQUATELY DRAIN TO SUBSURFACE.
- 17) FILL WET WELL AND UNDERGROUND VAULTS WITH NON-COMPRESSIBLE MATERIAL (NO. 67 WASHED STONE OR APPROVED EQUAL)
- 18) FILL DEMOLITION AREAS TO FINISHED GRADE WITH SUITABLE SOIL AND COMPACTED IN PLACE.
- 19) REMOVE EXISTING PERIMETER SILT FENCING.
- 20) GRASS SITE PER SPECIFICATIONS.
- 21) UPON APPROVAL, REMOVE REMAINING EROSION CONTROL MEASURES

ESP Associates, Inc.  
P.O. Box 7203  
Charlotte, NC 28241  
3475 Lakemont Blvd  
Fort Mill, SC 29708  
704-583-9446 (NC)  
803-802-2440 (SC)  
www.espasociates.com



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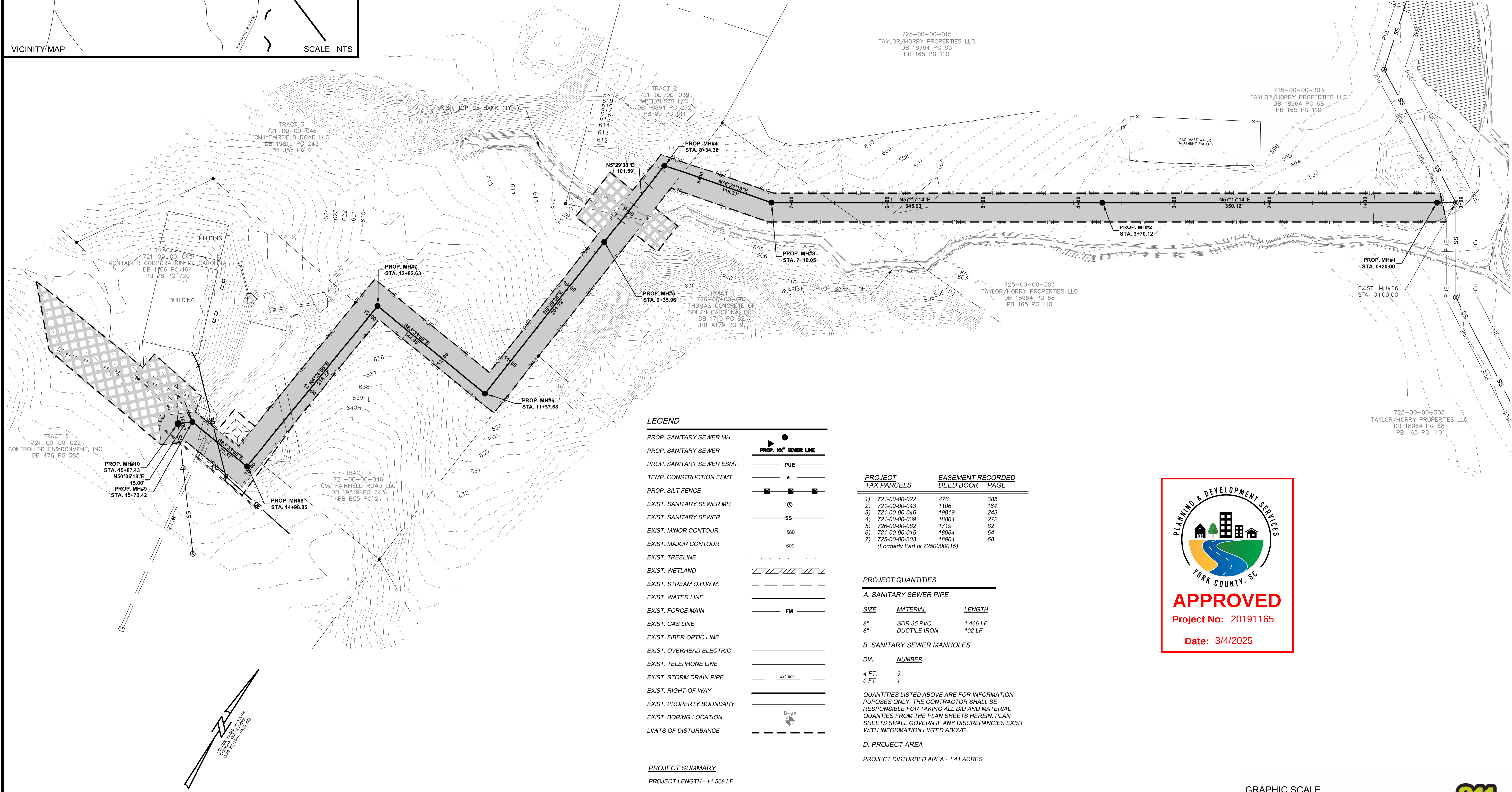
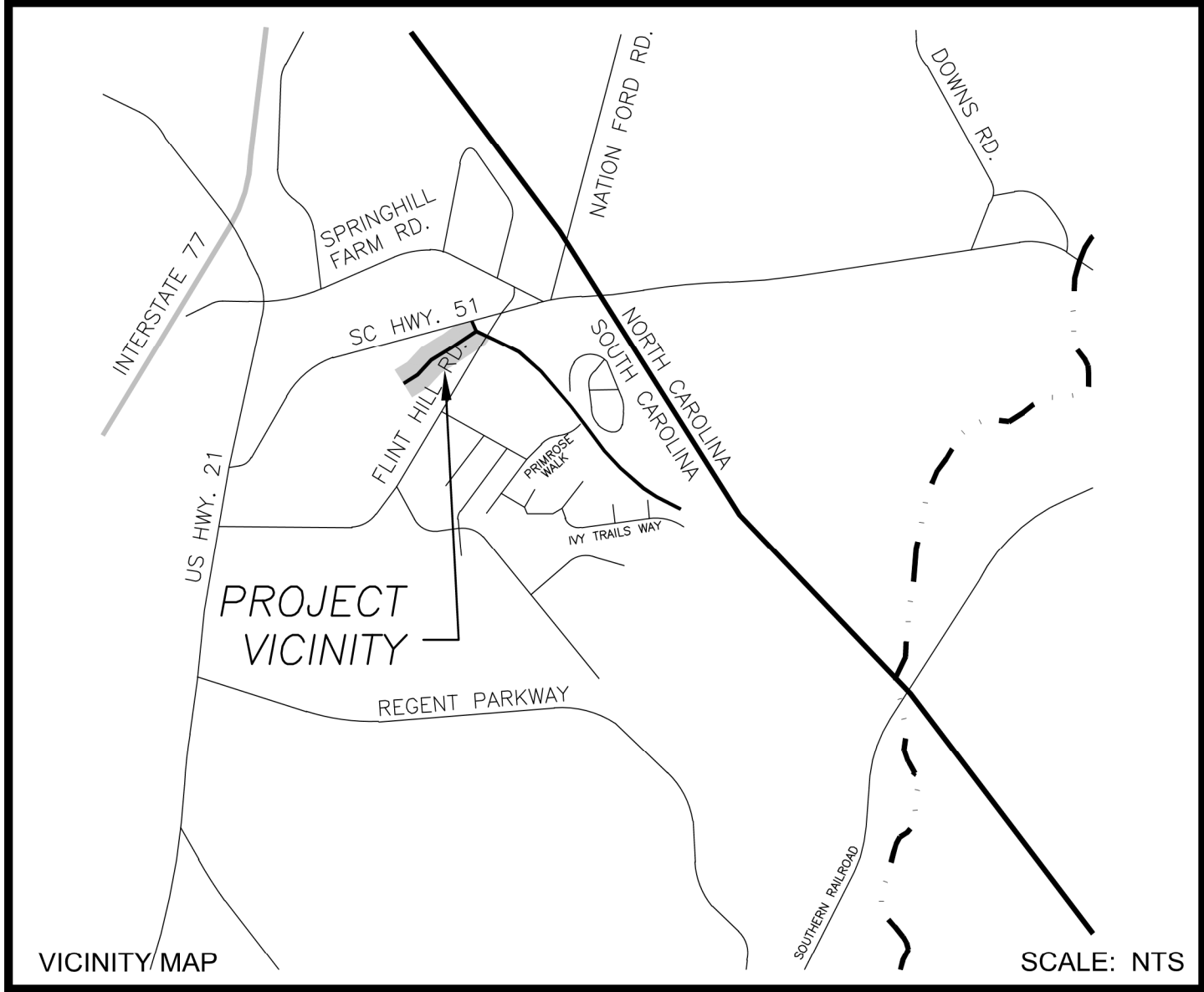
| NO. | DATE      | REVISION                         | BY  |
|-----|-----------|----------------------------------|-----|
| 1   | 3/10/2023 | REVISED PER YORK COUNTY REQUEST  | TWD |
| 2   | 9/11/2023 | REVISED PER YORK COUNTY COMMENTS | TWD |
|     |           |                                  |     |
|     |           |                                  |     |
|     |           |                                  |     |
|     |           |                                  |     |

| SITE NOTES                       | YORK COUNTY, SC |
|----------------------------------|-----------------|
| CAROLINA CONTAINER GRAVITY SEWER | YORK COUNTY     |

| PROJECT INFORMATION |          |
|---------------------|----------|
| PROJECT MANAGER:    | BAM      |
| DESIGNED BY:        | BAM      |
| DRAWN BY:           | TWD      |
| PROJECT NUMBER:     | GT35.400 |
| ORIGINAL DATE:      | 3/8/2019 |

SHEET: **C1.0**





**LEGEND**

|                            |   |
|----------------------------|---|
| PROP. SANITARY SEWER MH    | ● |
| PROP. SANITARY SEWER       | — |
| PROP. SANITARY SEWER ESMT. | — |
| TEMP. CONSTRUCTION ESMT.   | — |
| PROP. SILT FENCE           | — |
| EXIST. SANITARY SEWER MH   | ⊙ |
| EXIST. SANITARY SEWER      | — |
| EXIST. MINOR CONTOUR       | — |
| EXIST. MAJOR CONTOUR       | — |
| EXIST. TREELINE            | — |
| EXIST. WETLAND             | — |
| EXIST. STREAM O.H.W.M.     | — |
| EXIST. WATER LINE          | — |
| EXIST. FORCE MAIN          | — |
| EXIST. GAS LINE            | — |
| EXIST. FIBER OPTIC LINE    | — |
| EXIST. OVERHEAD ELECTRIC   | — |
| EXIST. TELEPHONE LINE      | — |
| EXIST. STORM DRAIN PIPE    | — |
| EXIST. RIGHT-OF-WAY        | — |
| EXIST. PROPERTY BOUNDARY   | — |
| EXIST. BORING LOCATION     | — |
| LIMITS OF DISTURBANCE      | — |

**PROJECT TAX PARCELS**

| PROJECT TAX PARCELS | EASEMENT RECORDED DEED BOOK | PAGE |
|---------------------|-----------------------------|------|
| 1) 721-00-00-022    | 476                         | 385  |
| 2) 721-00-00-043    | 1106                        | 164  |
| 3) 721-00-00-046    | 18819                       | 243  |
| 4) 721-00-00-039    | 18864                       | 272  |
| 5) 726-00-00-082    | 1719                        | 82   |
| 6) 721-00-00-015    | 18964                       | 64   |
| 7) 725-00-00-303    | 18964                       | 68   |

(Formerly Part of 725000015)

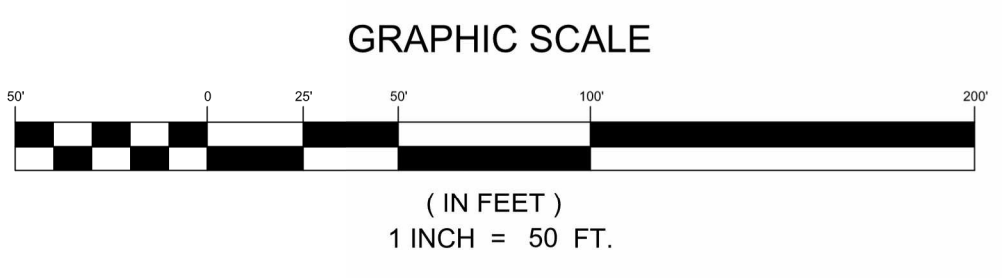
**PROJECT QUANTITIES**

| A. SANITARY SEWER PIPE     |              |          |
|----------------------------|--------------|----------|
| SIZE                       | MATERIAL     | LENGTH   |
| 8"                         | SDR 35 PVC   | 1,466 LF |
| 8"                         | DUCTILE IRON | 102 LF   |
| B. SANITARY SEWER MANHOLES |              |          |
| DIA.                       | NUMBER       |          |
| 4 FT.                      | 9            |          |
| 5 FT.                      | 1            |          |

QUANTITIES LISTED ABOVE ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL BID AND MATERIAL QUANTITIES FROM THE PLAN SHEETS HEREIN. PLAN SHEETS SHALL GOVERN IF ANY DISCREPANCIES EXIST WITH INFORMATION LISTED ABOVE.

**D. PROJECT AREA**  
PROJECT DISTURBED AREA - 1.41 ACRES

**PROJECT SUMMARY**  
PROJECT LENGTH - ±1,568 LF  
DISTURBED LIMITS - 61,335 S.F. = 1.41 ACRES



ESP Associates, Inc.  
P.O. Box 7030  
Charlotte, NC 28241  
3875 Lalemont Blvd.  
Fort Mill, SC 29708  
703-802-2440 (SC)  
www.espasociates.com

**ESP**

SOUTH CAROLINA  
ESP ASSOCIATES, INC.  
No. 5839  
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA  
Professional Engineer  
No. 34734  
BRYAN ANDREW MARTIN  
2023.03.13 13:53:18-04'00"

|          |                                  |           |
|----------|----------------------------------|-----------|
| BY       | ASH                              | TWD       |
| REVISION | REVISED PER YORK COUNTY COMMENTS |           |
| DATE     | 5/23/2019                        | 3/10/2023 |
| NO.      | 1                                | 2         |

OVERALL PROJECT MAP

CAROLINA CONTAINER GRAVITY SEWER

YORK COUNTY, SC

YORK COUNTY

PROJECT INFORMATION

|                  |          |
|------------------|----------|
| PROJECT MANAGER: | BAM      |
| DESIGNED BY:     | BAM      |
| DRAWN BY:        | TWD      |
| PROJECT NUMBER:  | GT35-400 |
| ORIGINAL DATE:   | 3/8/2019 |

SHEET:

**C2.0**

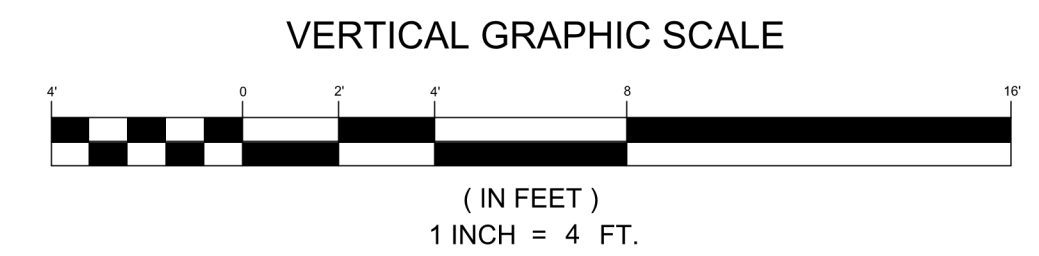
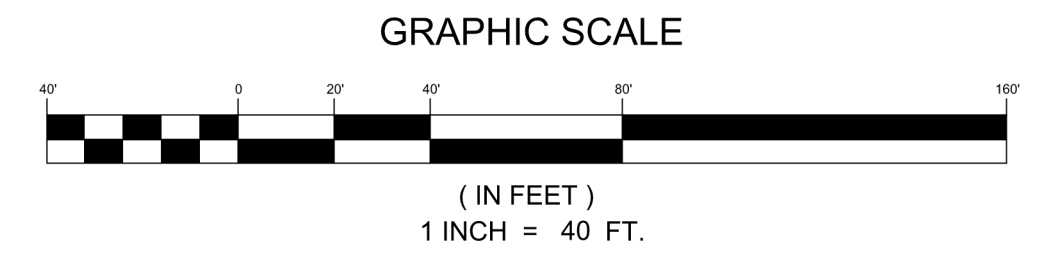




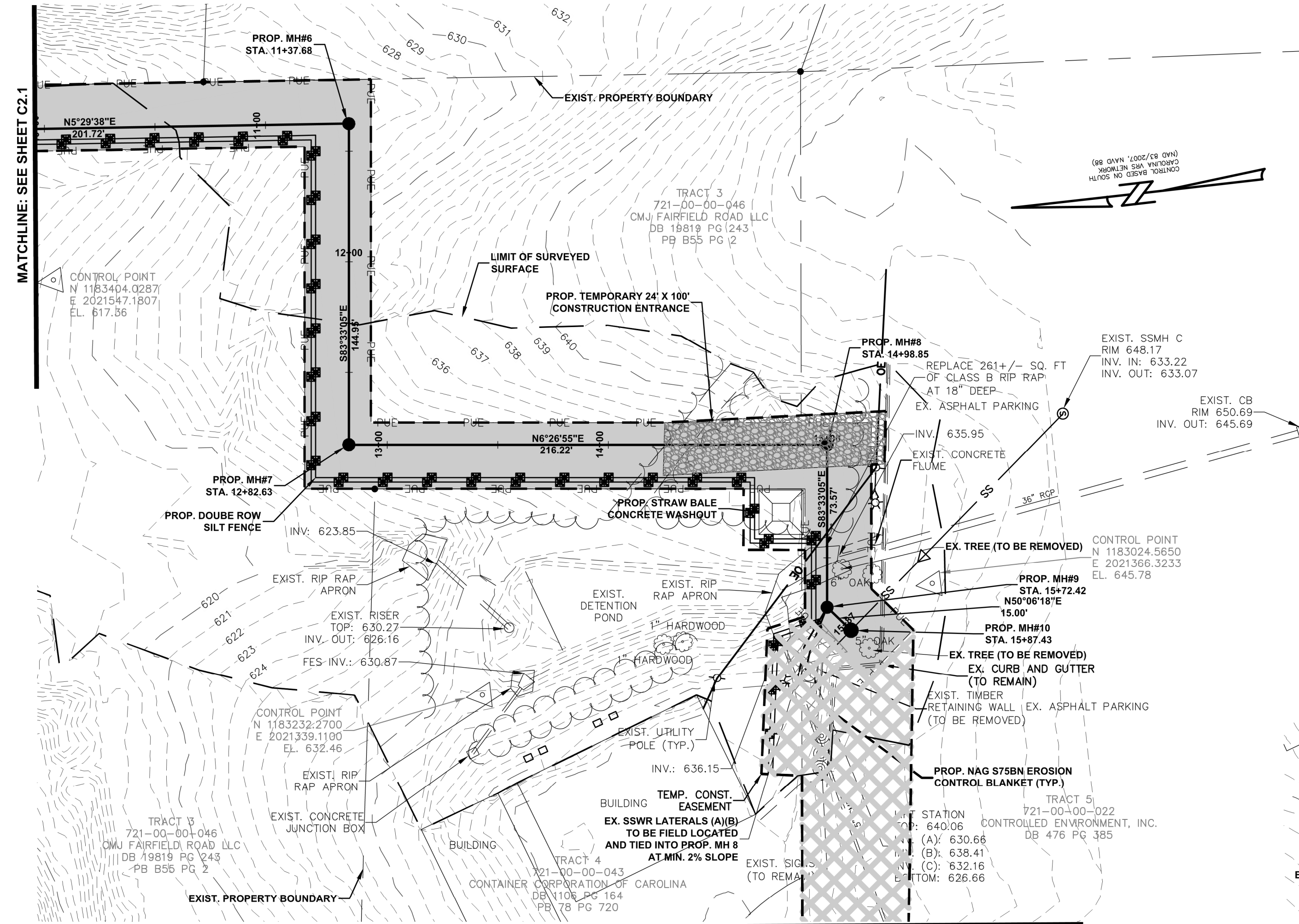
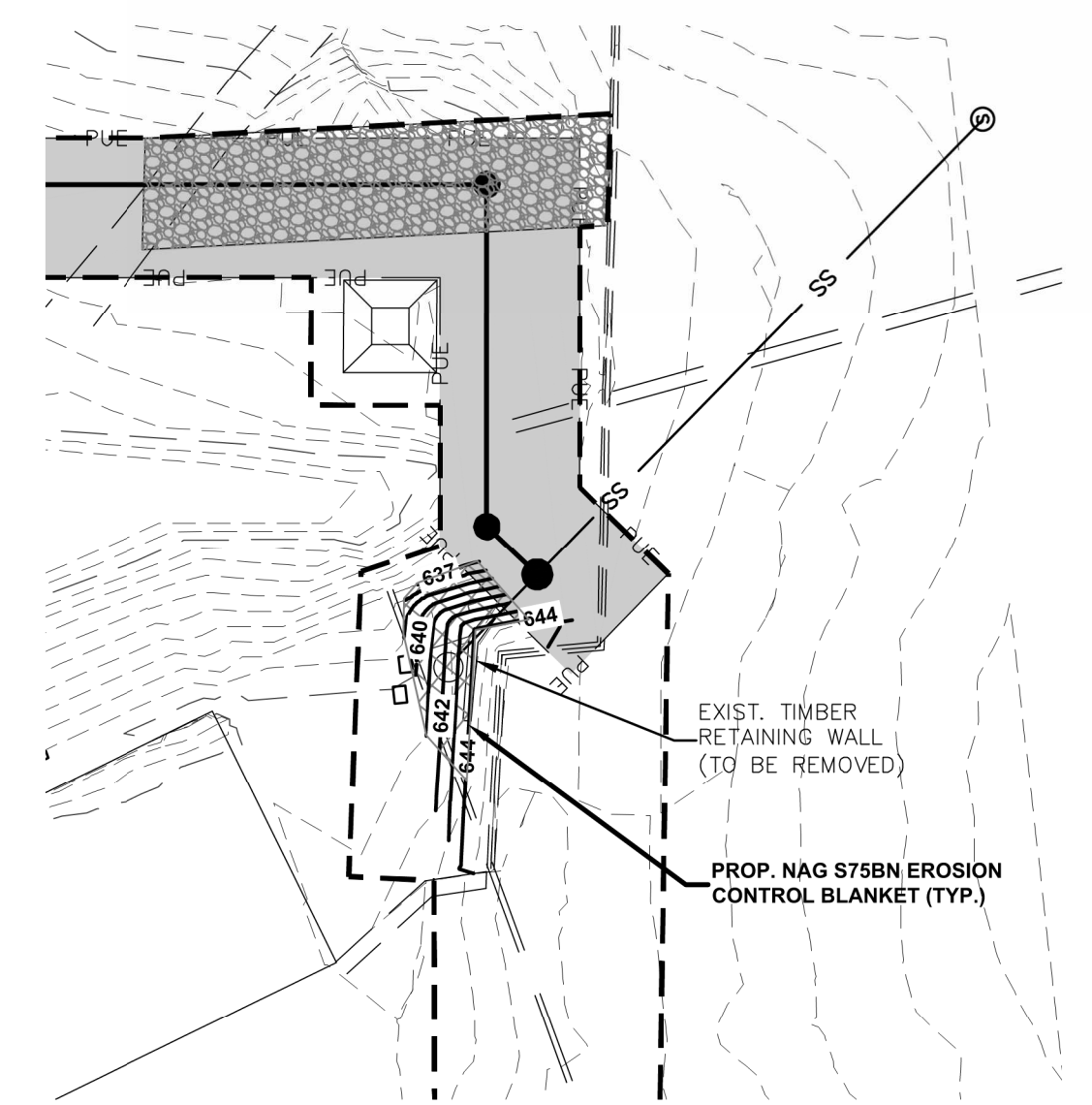


|                            |  |
|----------------------------|--|
| PROP. SANITARY SEWER MH    |  |
| PROP. SANITARY SEWER       |  |
| PROP. SANITARY SEWER ESMT. |  |
| TEMP. CONSTRUCTION ESMT.   |  |
| PROP. SILT FENCE           |  |
| EXIST. SANITARY SEWER MH   |  |
| EXIST. SANITARY SEWER      |  |
| EXIST. MINOR CONTOUR       |  |
| EXIST. MAJOR CONTOUR       |  |
| EXIST. TREELINE            |  |
| EXIST. WETLAND             |  |
| EXIST. STREAM O.H.W.M.     |  |
| EXIST. WATER LINE          |  |
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| EXIST. FIBER OPTIC LINE    |  |
| EXIST. OVERHEAD ELECTRIC   |  |
| EXIST. TELEPHONE LINE      |  |
| EXIST. STORM DRAIN PIPE    |  |
| EXIST. RIGHT-OF-WAY        |  |
| EXIST. PROPERTY BOUNDARY   |  |
| EXIST. BORING LOCATION     |  |
| LIMITS OF DISTURBANCE      |  |

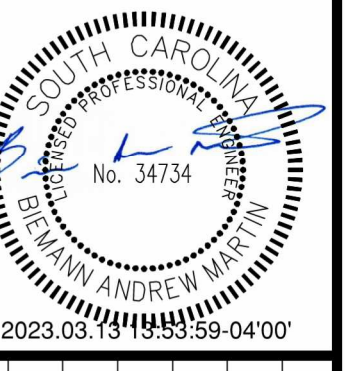
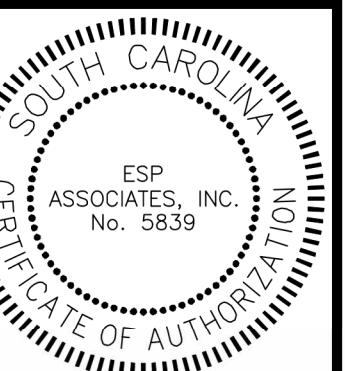
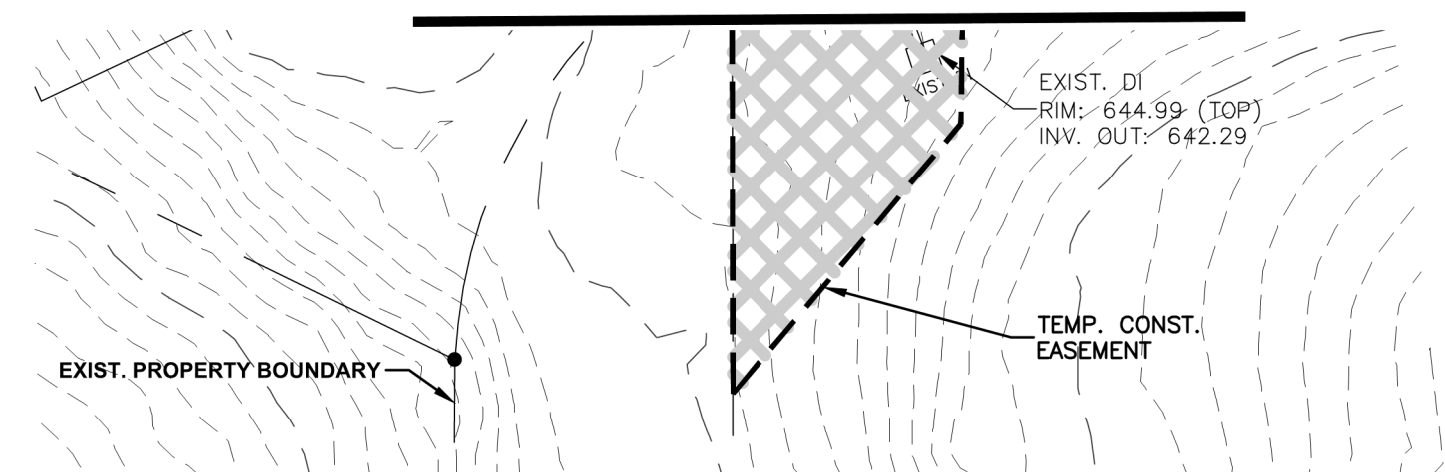
PROJECT LENGTH - ±1,568 LF  
DISTURBED LIMITS - 61,335 S.F. = 1.41 ACRES



### Grading Exhibit for Removal of Pump Station and Timber Retaining Wall



**MATCHLINE: SEE THIS SHEET**

[illegible]

SSWR PLAN PROFILE (SHEET 2 OF 2)

**CAROLINA CONTAINER GRAVITY SEWER**

**TOTAL COSTS, \$**

| PROJECT INFORMATION |          |
|---------------------|----------|
| PROJECT MANAGER:    | BAM      |
| SIGNED BY:          | BAM      |
| AWN BY:             | TWD      |
| PROJECT NUMBER:     | GT35.400 |
| ORIGINAL DATE:      | 3/8/2019 |
| SHEET:              |          |

## C2.2





|                                         |                              |               |
|-----------------------------------------|------------------------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | WATER/SEWER<br>GENERAL NOTES | STD. NO.      |
|                                         |                              | 10.01         |
|                                         |                              | DATE<br>01/21 |

- FIRE HYDRANTS SHALL BE YORK COUNTY STANDARD.
- ALL WATER MAIN VALVES MUST OPEN COUNTERCLOCKWISE IN CONFORMANCE WITH YORK COUNTY STANDARDS.
- BLOCKING SHALL BE INSTALLED AT ALL BENDS, TEES, VALVES, REDUCERS, BLOW-OFFS, AND HYDRANT LOCATIONS, UNLESS ALTERNATIVES ARE SHOWN ON DETAILS.
- WATER MAINS LESS THAN 4 INCH IN DIAMETER SHALL BE PVC ASTM D2241 SDR 13.5, CLASS 315. ALL MAINS 4 INCH TO 12 INCH SHALL BE AWWA C-900 PRESSURE CLASS 200 PVC SDR14. FITTINGS LESS THAN 4 INCH SHALL BE SLIP JOINT PVC PER SPECIFICATIONS. PVC PIPING SHALL BE INSTALLED WITH APPROVED COPPER LOCATING WIRE.
- ASBESTOS CEMENT PIPE SHALL NOT BE USED IN POTABLE WATER SYSTEMS.
- DIP SHALL BE IN ACCORDANCE WITH AWWA C150/A21.50 & AWWA C151/A21.51
- NO FLUSHING DEVICE SHALL BE DIRECTLY CONNECTED TO ANY SEWER SYSTEM.
- CHAMBERS, PITS OR MANHOLES CONTAINING VALVES, BLOW-OFFS, METERS, AIR RELIEF VALVES OR OTHER SUCH APPURTENANCES TO A POTABLE WATER DISTRIBUTION SYSTEM, SHALL NOT BE CONNECTED DIRECTLY TO ANY STORM DRAIN OR SANITARY SEWER.
- INSTALLATION OF WATER MAINS AND APPURTENANCES SHALL BE CONDUCTED IN ACCORDANCE SECTION C OF THE AWWA STANDARDS AND/OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
- A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE. BACK-FILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE, AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE. STONES, OTHER THAN CRUSHED BEDDING, SHALL NOT COME INTO CONTACT WITH THE PIPE AND SHALL NOT BE WITHIN SIX (6) INCHES OF THE PIPE.
- ALL WATER MAINS SHALL MEET THE YORK COUNTY WATER SPECIFICATIONS FOR PIPE WARNING TAPE AND TRACING WIRE. REFER TO YORK COUNTY WATER & SEWER STANDARDS TECHNICAL SPECIFICATIONS SECTION 33 05 05, SECTION 2.2 FOR PROPER INSTALLATION.
- A "W" MUST BE ETCHED INTO THE CURBING SHOWING THE LOCATION OF WATER METERS.
- A "V" MUST BE ETCHED INTO THE CURBING SHOWING THE LOCATION OF VALVES.
- VALVES CANNOT BE LOCATED IN SIDEWALKS, CURBING, DRIVEWAYS, OR ASPHALT AREAS.
- REFER TO YORK COUNTY STANDARD SPECIFICATIONS AND DETAILS REGARDING SERVICE LINE MATERIAL.
- ALL SERVICE LINES REQUIRE INDIVIDUAL CONNECTIONS TO THE MAIN. MULTIPLE SERVICE LINES INTERCONNECTING WILL NOT BE ALLOWED.
- WATER MAINS WHICH HAVE BEEN PREVIOUSLY USED FOR CONVEYING POTABLE WATER MAY BE REUSED PROVIDED THEY MEET APPLICABLE CRITERIA FROM AWWA SECTION C, ANSI/NSF 61 AND ASTM D1785 OR D2241. THE MAINS MUST BE THOROUGHLY CLEANED AND RESTORED PRACTICALLY TO THEIR ORIGINAL CONDITION.
- THERMOPLASTIC PIPE SHALL NOT BE USED ABOVE GRADE.

|                                         |                                       |               |
|-----------------------------------------|---------------------------------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | TESTING / INSPECTION<br>GENERAL NOTES | STD. NO.      |
|                                         |                                       | 10.04         |
|                                         |                                       | DATE<br>01/21 |

- NOTIFY THE ENGINEER OF RECORD AND YORK COUNTY AT LEAST 48 HOURS BEFORE STARTING CONSTRUCTION OF SEWER AND WATER FACILITIES. THE ENGINEER SHALL PERIODICALLY INSPECT THE PROGRESS OF INSTALLATION AND SHALL COMPLETE A FINAL WATER AND SEWER INSPECTION. THE ENGINEER OF RECORD AND YORK COUNTY SHALL WITNESS PRESSURE TESTING OF THE WATER SYSTEM, AND AIR AND MANDREL TESTING OF THE SEWER SYSTEM. THE CONTRACTOR SHALL FURNISH, SECURE, AND PROVIDE ALL NECESSARY TESTING MATERIALS, EQUIPMENT, PROCEDURES AND CERTIFIED LABORATORY TEST RESULTS FOR USE WITH ENGINEERS FINAL CERTIFICATION OF COMPLETION.
- WATER MAINS AND SEWER FORCE MAINS MUST BE HYDROSTATICALLY TESTED PER YORK COUNTY SPECIFICATIONS AND UNDER THE SUPERVISION OF A YORK COUNTY INSPECTOR AND THE ENGINEER OF RECORD.
- DISINFECT WATER LINES AND PROVIDE ACCEPTABLE BACTERIOLOGICAL TEST FROM A CERTIFIED TESTING LABORATORY FOR USE WITH THE ENGINEERS CERTIFICATION OF COMPLETION. A MINIMUM OF TWO (2) SAMPLES, COLLECTED AT LEAST TWENTY-FOUR (24) HOURS APART, ARE TO BE TAKEN FROM EACH SAMPLING SITE FOR TOTAL COLIFORM ANALYSIS AND TOTAL CHLORINE RESIDUAL. THE NUMBER OF TEST SITES MUST INCLUDE ALL DEAD-END LINES AND SHALL BE COLLECTED A MINIMUM OF EVERY 1,200 LINEAR FEET.
- SECURE FINAL OPERATIONAL APPROVAL FROM YORK COUNTY AND SCDEC PRIOR TO ACTIVATION OF THE SYSTEM.
- TEST SANITARY SEWER LINES FOR DEFLECTION WITH A 5 % MANDREL NOT LESS THAN 30 DAYS AFTER COMPLETION OF BACKFILL. PERFORM LOW PRESSURE AIR TESTING IN ACCORDANCE WITH ASTM C-828 AND C924 ON ALL SEWER MAINS.
- TRENCH BACKFILL AND COMPACTION TESTING SHALL BE PERFORMED BY A CERTIFIED SOILS LABORATORY UNDER ALL AREAS WITHIN ROAD AND RAILWAY RIGHTS-OF-WAY. BACKFILL MATERIAL FROM THE BOTTOM OF TRENCH TO WITHIN SIX (6) INCHES OF THE SUBGRADE SHALL HAVE A MINIMUM DRY DENSITY OF 95% AS DEFINED BY THE STANDARD PROCTOR TEST. ALL MATERIAL WITHIN THE TOP 6 INCHES OF THE SUBGRADE LEVEL SHALL HAVE AN IN PLACE DENSITY OF 100%.
- THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH SEWER AS-BUILTS (LOCATION, ELEVATION, LENGTH, AND SLOPE) PREPARED BY A REGISTERED LAND SURVEYOR AND WATER SERVICE MEASUREMENTS SUITABLE FOR PREPARATION OF FINAL RECORD DRAWINGS.
- THE ENGINEER SHALL PROVIDE TO YORK COUNTY ENGINEERING A DIGITAL SET OF RECORD DRAWINGS IN AN AUTO-CAD FORMAT THAT IS GEO-REFERENCED TO THE SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM AND A DIGITAL SET OF RECORD DRAWINGS IN A PDF FORMAT.

|                                         |                                         |               |
|-----------------------------------------|-----------------------------------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | MANHOLE<br>COPOLYMER POLYPROPYLENE STEP | STD. NO.      |
|                                         |                                         | 12.09         |
|                                         |                                         | DATE<br>01/19 |

NOTE:

- DRIVE STEP INTO TAPERED HOLES IN PRECAST MANHOLE SECTIONS. DO NOT USE AS A GROUTED-IN STEP.

|                                         |                              |               |
|-----------------------------------------|------------------------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | WATER/SEWER<br>GENERAL NOTES | STD. NO.      |
|                                         |                              | 10.01         |
|                                         |                              | DATE<br>01/21 |

- NATURAL RUBBER OR OTHER MATERIAL WHICH WILL SUPPORT MICROBIOLOGICAL GROWTH MAY NOT BE USED FOR ANY GASKETS, O-RINGS, AND OTHER PRODUCTS USED FOR JOINTING PIPES, SETTING METERS OR VALVES, OR OTHER APPURTENANCES WHICH WILL EXPOSE THE MATERIAL TO THE WATER.
- LUBRICANTS WHICH WILL SUPPORT MICROBIOLOGICAL GROWTH SHALL NOT BE USED FOR SLIP-ON JOINTS.
- THE USE OF VEGETABLE SHORTENING TO LUBRICATE JOINTS IS PROHIBITED.
- THE USE OF SOLVENT-WELD PVC PIPE AND FITTINGS IN WATER MAINS 4 INCHES AND LARGER IS PROHIBITED.
- AT NO TIME SHALL A POTABLE WATER LINE PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SEWER MANHOLE.
- AIR RELIEF VALVES SHALL BE PROVIDED IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AT HIGH POINTS IN WATER MAINS AS REQUIRED. AUTOMATIC AIR RELIEF VALVES SHALL NOT BE USED IN SITUATIONS WHERE FLOODING OF THE INSTALLATION MANHOLE OR CHAMBER MAY OCCUR.
- BLOW-OFFS SHOULD NOT BE DIRECTED TOWARDS ROADS OR SO THAT THE WATER FROM THE BLOW-OFF FLOWS INTO CREEKS, STREAMS, ETC... DIRECT BLOW-OFFS AT STREAM CROSSINGS AWAY FROM THE STREAM.
- USE DIP WITH MECHANICAL JOINTS FOR ANY LINES BEING INSTALLED IN ROCK.
- ANY PIPE, SOLDER, OR FLUX WHICH IS USED IN THE INSTALLATION OR REPAIR OF ANY PUBLIC WATER SYSTEM, USED IN ANY PLUMBING WHICH PROVIDES WATER THROUGH CONNECTION TO A PUBLIC WATER SYSTEM, FOR HUMAN CONSUMPTION, SHALL BE LEAD FREE, LEAD FREE, FOR SOLDER AND FLUX, MEAN THOSE CONTAINING NOT MORE THAN 0.2% LEAD. LEAD FREE, FOR PIPES AND PIPE FITTINGS, AS THOSE CONTAINING NOT MORE THAN 8.0% LEAD. LEADED JOINTS NECESSARY FOR THE REPAIR OF CIP SHALL BE EXEMPT FROM THE ABOVE.
- THERE SHALL BE NO CONNECTION BETWEEN THE DISTRIBUTIONS SYSTEM AND ANY PIPES, PUMPS, HYDRANTS, OR TANKS WHEREBY UNSAFE WATER OR OTHER CONTAMINATION MATERIALS MAY BE DISCHARGED OR DRAWN INTO THE SYSTEM. NO BY-PASSES SHALL BE ALLOWED, UNLESS THE BYPASS IS ALSO EQUIPPED WITH AN EQUAL, APPROVED BACK-FLOW DEVICE.
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLIES SHALL NOT BE INSTALLED IN ANY AREA LOCATION SUBJECT TO POSSIBLE FLOODING.
- ALL PIPING UP TO THE INLET OF THE BACKFLOW PREVENTION DEVICE MUST BE SUITABLE FOR POTABLE WATER. THE PIPE MUST BE AWWA OR NSF APPROVED. BLACK STEEL PIPE CANNOT BE USED ON THE INLET SIDE OF THE DEVICE.
- FIRE LINE SPRINKLERS AND DEDICATED FIRE LINES, EXCEPT THOSE IN THE HIGH HAZARD CATEGORY, SHALL BE PROTECTED BY AN APPROVED DOUBLE CHECK VALVE ASSEMBLY.

|                                         |                             |               |
|-----------------------------------------|-----------------------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | MANHOLE<br>4' & 5' DIAMETER | STD. NO.      |
|                                         |                             | 12.01         |
|                                         |                             | DATE<br>01/19 |

12.01 NOTES:

- FURNISH MANHOLES WITH CLEAR INSIDE DIAMETERS AS LISTED ACCORDING TO THE SEWER MAIN DIAMETER UNLESS AMENDED ON THE DRAWINGS OR AS NOTED BELOW:  

|                 |            |         |
|-----------------|------------|---------|
| 8" to 18" pipe  | 4' Manhole | 5' Wall |
| 21" to 36" pipe | 5' Manhole | 6" Wall |

  
INCREASE THE MANHOLE DIAMETER FROM THAT SHOWN ABOVE FOR APPLICATIONS WHERE THE ANGLE BETWEEN THE INFLUENT AND EFFLUENT PIPE PRECLUDES PROPER INSTALLATION OF THE PIPE CONNECTIONS IN THE STANDARD SIZE MANHOLE.
- PROVIDE MINIMUM 4' MANHOLE FEET FOR INVERT DEPTHS OF 19 FEET OR LESS.
- PROVIDE MINIMUM 5' MANHOLE FEET FOR INVERT DEPTHS GREATER THAN 19 FEET.
- INSTALL STEPS IN 5' DIAMETER AND GREATER MANHOLES OVER THE WIDEST SHELF UNLESS NOTED OTHERWISE.
- UNLESS OTHERWISE APPROVED, INVERT CHANNELS SHALL BE INSTALLED AT PRECAST PLANT.
- PROVIDE FULL BENCH INVERT CHANNELS. SLOPE INVERT BENCH 1/2 INCH TO 1 1/2 INCH PER FOOT.
- FIELD INSTALLED INVERTS, IF APPROVED, SHALL BE FORMED WITHOUT THE USE OF BRICK OR OTHER FILL MATERIAL.
- USE STANDARD BASE EXCEPT WHERE AN EXTENDED BASE IS INDICATED.
- PROVIDE BEDDING MATERIAL COMPACTED TO A 90% PROCTOR 6" THICK, 6" BEYOND OUTSIDE RADIUS OF MANHOLE BASE. SUPPORT SEWER PIPES WITH BEDDING MATERIAL.

|                                         |                |               |
|-----------------------------------------|----------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | SEWER<br>NOTES | STD. NO.      |
|                                         |                | 10.03         |
|                                         |                | DATE<br>01/21 |

- SEWER FORCE MAINS LESS THAN 4 INCH IN DIAMETER SHALL BE PVC ASTM-D2241 SDR13.5 CLASS 315. ALL MAINS 4 INCH TO 12 INCH SHALL BE AWWA C-900, PRESSURE CLASS 200 PVC SDR14. FITTINGS 4 INCHES AND LARGER SHALL BE MECHANICAL JOINT CAST IRON. FITTINGS LESS THAN 4 INCH SHALL BE SLIP JOINT PVC PER SPECIFICATIONS. PVC PIPING SHALL BE INSTALLED WITH APPROVED COPPER LOCATING WIRE.
- SANITARY SEWER MAINS SHALL BE PVC (ASTM D3034-SDR 35) WITH STONE BEDDING EXCEPT WHERE DUCTILE IRON PIPE OR LONG SPAN STEEL PIPE IS SHOWN. DUCTILE IRON PIPE SHALL BE BITUMINOUS COATED, CEMENT LINED WITH PUSH-ON JOINTS CONFORMING TO ASA A21.54 PC350. TRANSITIONAL COUPLINGS SHALL BE USED FOR PVC/DI SEWER CONNECTIONS. SEWER SERVICES SHALL BE SCHEDULE 40 PVC. LONG SPAN STEEL PIPE SHALL BE COATED ON BOTH SIDES ON BOTH SIDES WITH 4 MILS EPOXY. ANY SEWER LINE PLACED 16 FEET OR GREATER IN DEPTH SHALL BE DUCTILE IRON PIPE.
- ALL SEWER MANHOLES SHALL BE PRE-CAST CONCRETE WITH INTEGRALLY CAST WATERTIGHT CONNECTIONS.
- SANITARY SEWER LATERALS SHALL BE 4 INCH DIAMETER EXCEPT AS SPECIFICALLY NOTED.
- CONTRACTOR SHALL STABILIZE ALL OUT OF STREET GRAVITY SEWER RIGHTS OF WAY WITH GRASS.
- DIP SHALL BE IN ACCORDANCE WITH AWWA C150/A21.50 & AWWA C151/A21.51.
- A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE. BACK-FILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE. STONES, OTHER THAN CRUSHED BEDDING, SHALL NOT COME INTO CONTACT WITH THE PIPE AND SHALL NOT BE WITHIN SIX (6) INCHES OF THE PIPE.
- ALL OFF-SITE SEWER MANHOLES MUST BE A MINIMUM OF TWO (2) FEET ABOVE FINISHED GRADE OR THE 100 YEAR FLOOD PLAIN ELEVATION. ALL MANHOLE TOPS ARE TO BE BOLTED DOWN TO THE PRE-CAST HOUSINGS.
- AN "S" MUST BE ETCHED INTO THE CURBING SHOWING THE LOCATION OF SEWER LATERALS.
- MANHOLES MUST NOT BE PLACED WITHIN THE WHEEL-PATHS OF ANY ROADWAY TRAVELING LANES.
- SEWER SERVICE LATERALS CONNECTING TO THE MAINLINE WITHIN 10' OF A MANHOLE MUST GO DIRECTLY INTO THE MANHOLE.
- ALL SERVICE LINES REQUIRE INDIVIDUAL CONNECTIONS TO THE MAIN. MULTIPLE SERVICE LINES INTERCONNECTING WILL NOT BE ALLOWED.
- FORCE MAINS TYING INTO MANHOLES SHALL ENTER THE MANHOLE A VERTICAL DISTANCE OF NOT MORE THAN TWO (2) FEET ABOVE THE FLOW LINE OF THE RECEIVING MANHOLE.
- SEWER LATERALS BELOW MANHOLE BASE ELEVATION ARE REQUIRED TO HAVE A BACKWATER VALVE.

|                                         |                                     |               |
|-----------------------------------------|-------------------------------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | MANHOLE RING AND COVER<br>CAST IRON | STD. NO.      |
|                                         |                                     | 12.08         |
|                                         |                                     | DATE<br>01/19 |

|                                         |                                 |               |
|-----------------------------------------|---------------------------------|---------------|
| YORK COUNTY<br>ENGINEERING<br>STANDARDS | PIPE BEDDING<br>STANDARD DETAIL | STD. NO.      |
|                                         |                                 | 15.02         |
|                                         |                                 | DATE<br>08/19 |

ESP Associates, Inc.  
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803-502-2440 (SC)  
www.espassociates.com

SOUTH CAROLINA  
ESP ASSOCIATES, INC.  
No. 5839  
CERTIFICATE OF AUTHORITY  
FOR PROFESSIONAL ENGINEERING

SOUTH CAROLINA  
No. 34734  
BRADY ANDRE W. HARRIS  
Professional Engineer

2023.03.13 13:54:20 -04'00'

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|----------|-----------|----------|----------|----------|----------|
| BY       | TWD       |          |          |          |          |
| REVISION | REVISION  | REVISION | REVISION | REVISION | REVISION |
| DATE     | 3/10/2023 |          |          |          |          |
| NO.      | 1         |          |          |          |          |

SANITARY SEWER DETAILS (SHEET 1 OF 2)

CAROLINA CONTAINER GRAVITY SEWER

YORK COUNTY

YORK COUNTY, SC

|                     |          |
|---------------------|----------|
| PROJECT INFORMATION |          |
| PROJECT MANAGER:    | BAM      |
| DESIGNED BY:        | BAM      |
| DRAWN BY:           | TWD      |
| PROJECT NUMBER:     | GT35.400 |
| ORIGINAL DATE:      | 3/8/2019 |

SHEET: C2.3



**NOTES:**

**SECTION VIEW**  
**N.T.S.**



## CONCRETE TRENCH PLUG

### SEWER LINES

**NOTE:**



— UNDISTURBED  
OR ROCK

## CONCRETE TRENCH PLUG

### SEWER LINES



**APPROVED**

**Project No: 20191165**

**Date:** 3/4/2025

| NO. | DATE      | REVISION                        | BY  |
|-----|-----------|---------------------------------|-----|
| 1   | 3/10/2023 | REVISED PER YORK COUNTY REQUEST | TWD |
|     |           |                                 |     |
|     |           |                                 |     |
|     |           |                                 |     |
|     |           |                                 |     |
|     |           |                                 |     |

**SANITARY SEWER DETAILS (SHEET**  
**2 OF 2)**

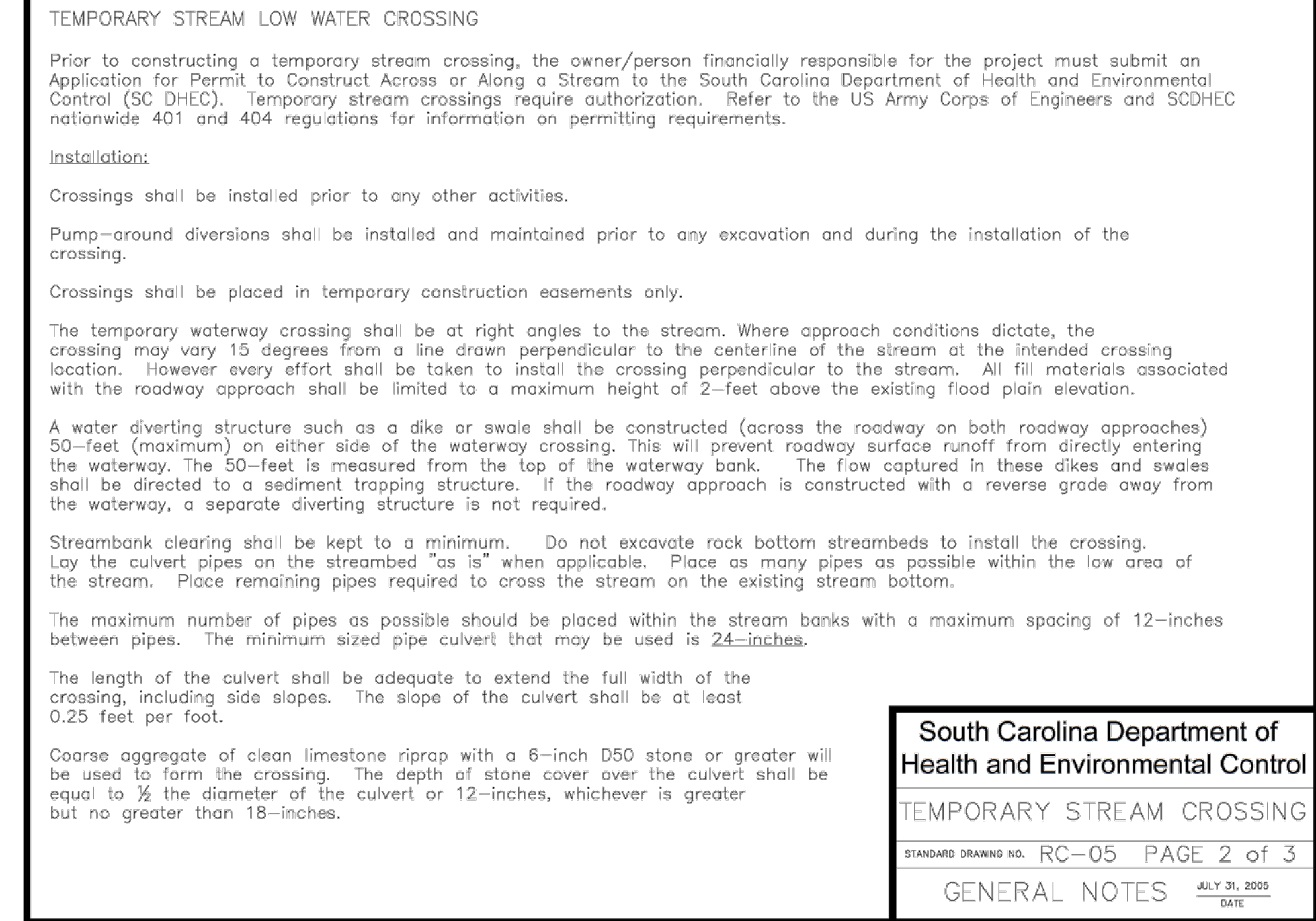
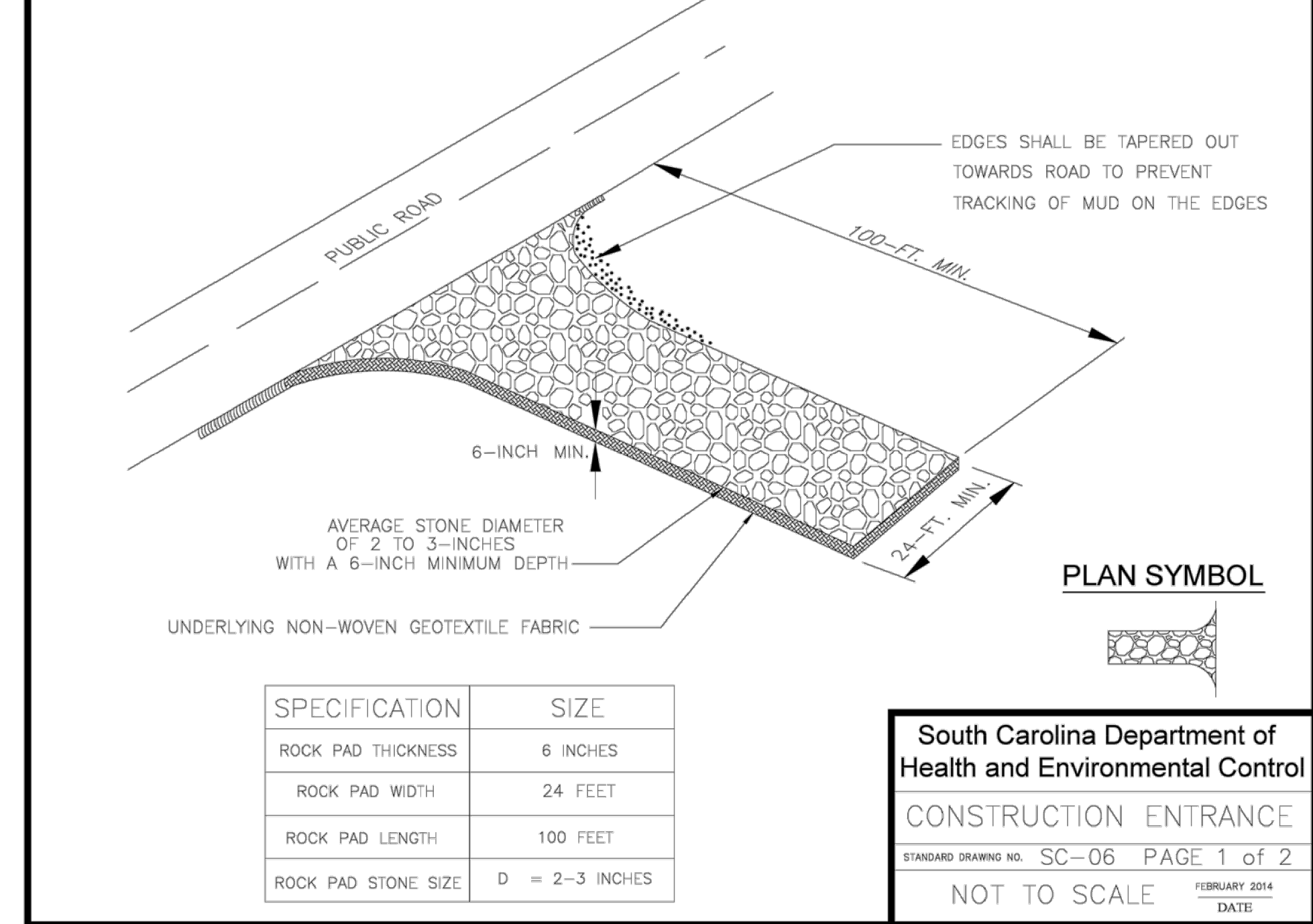
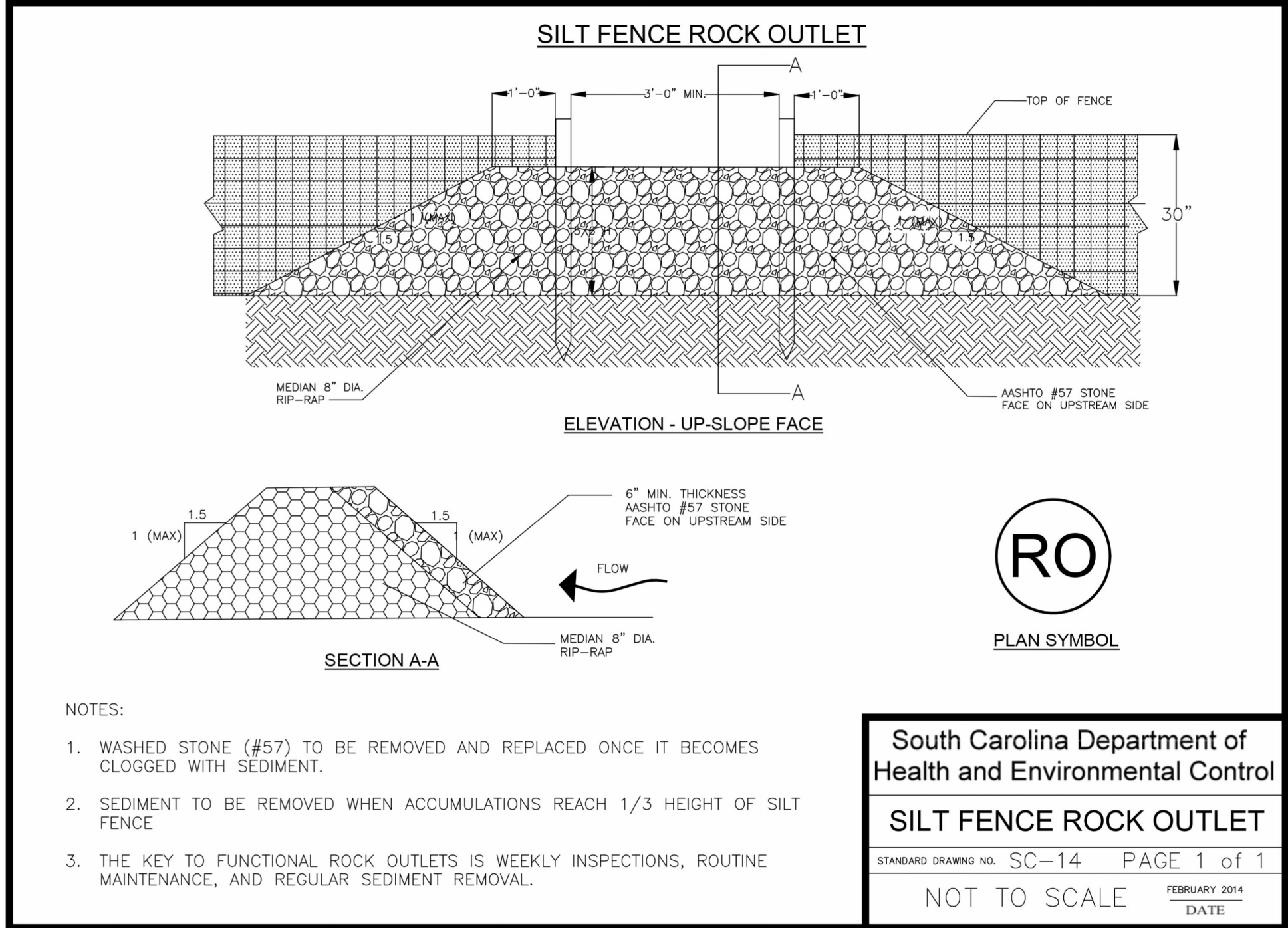
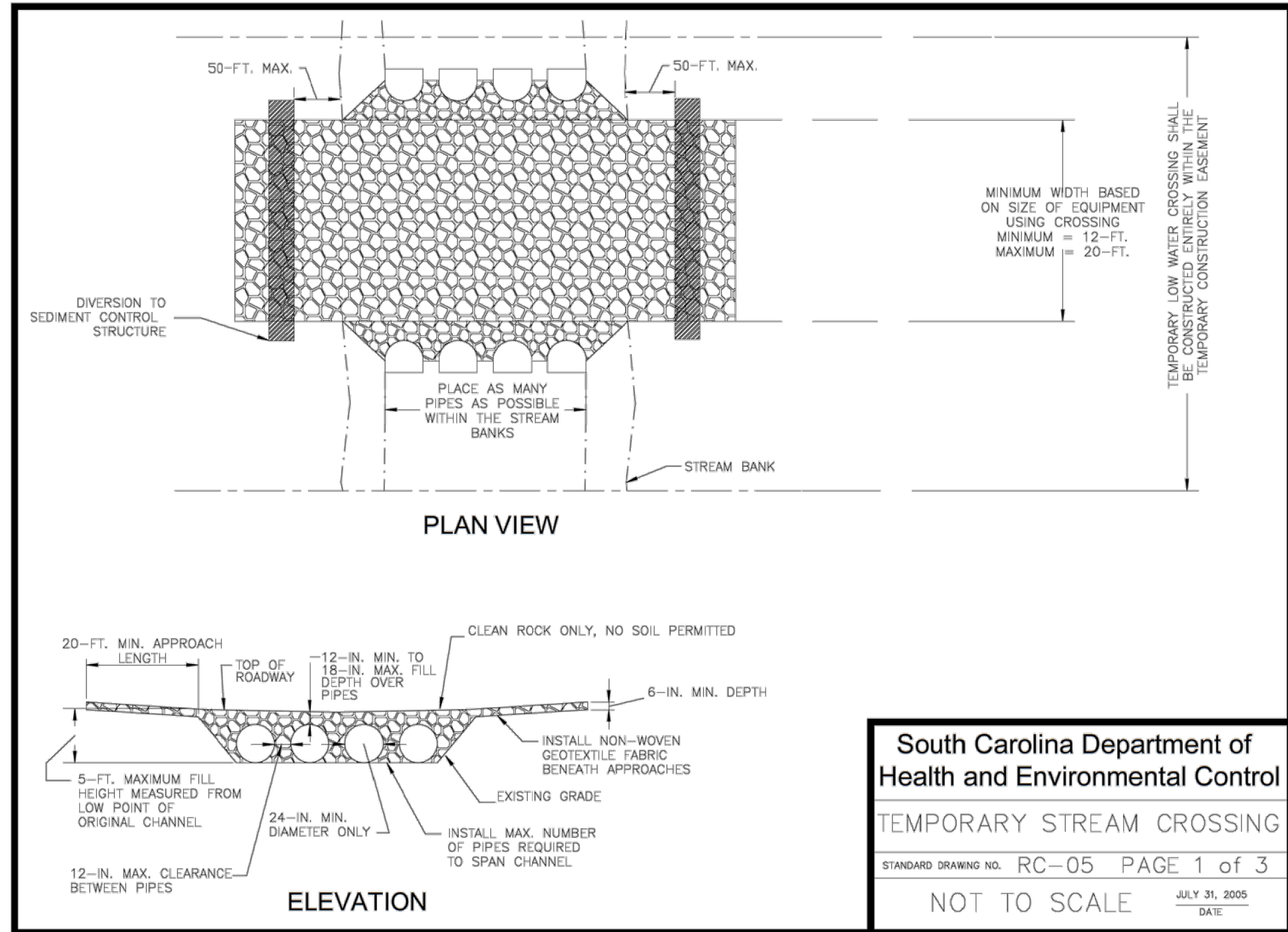
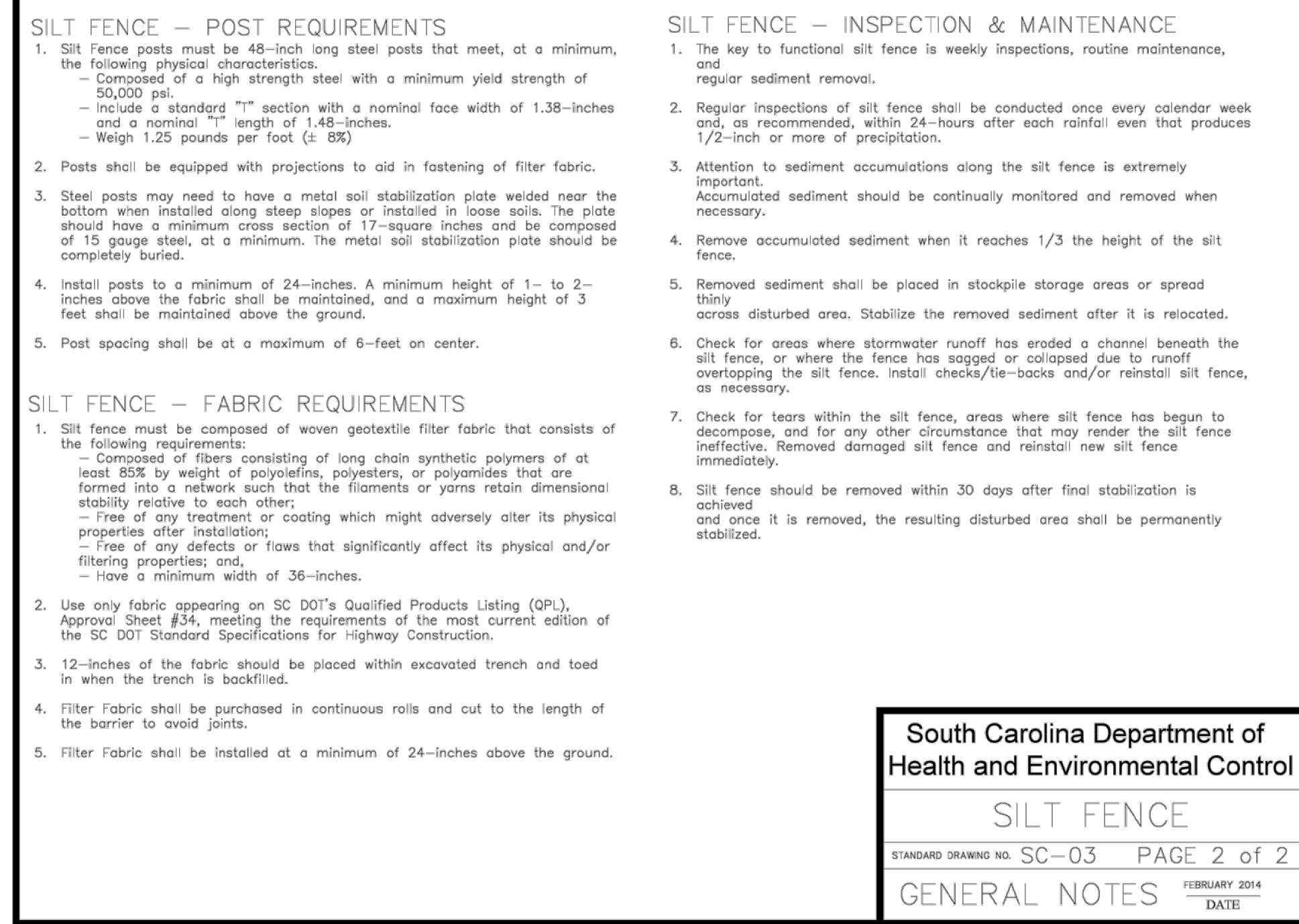
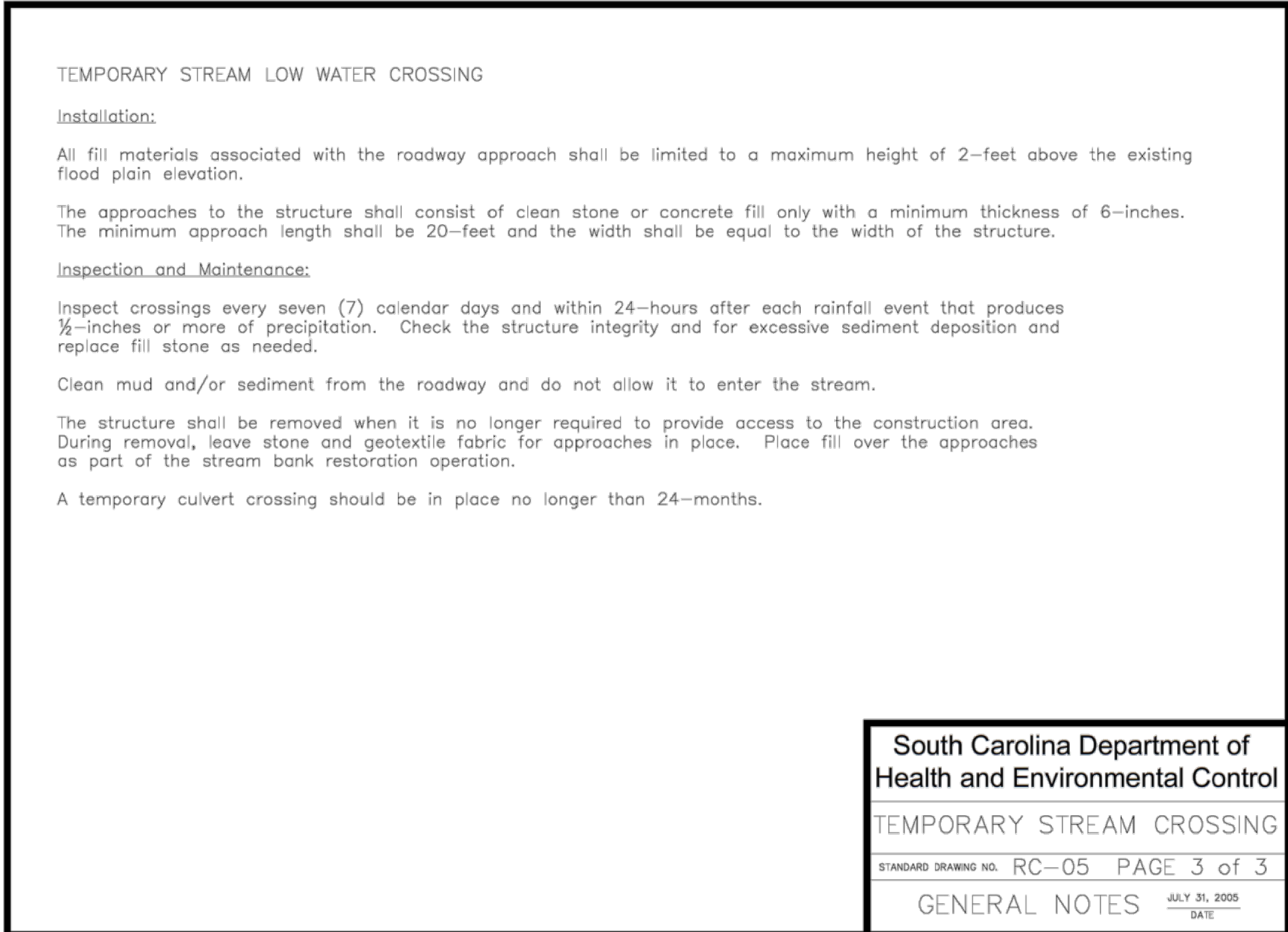
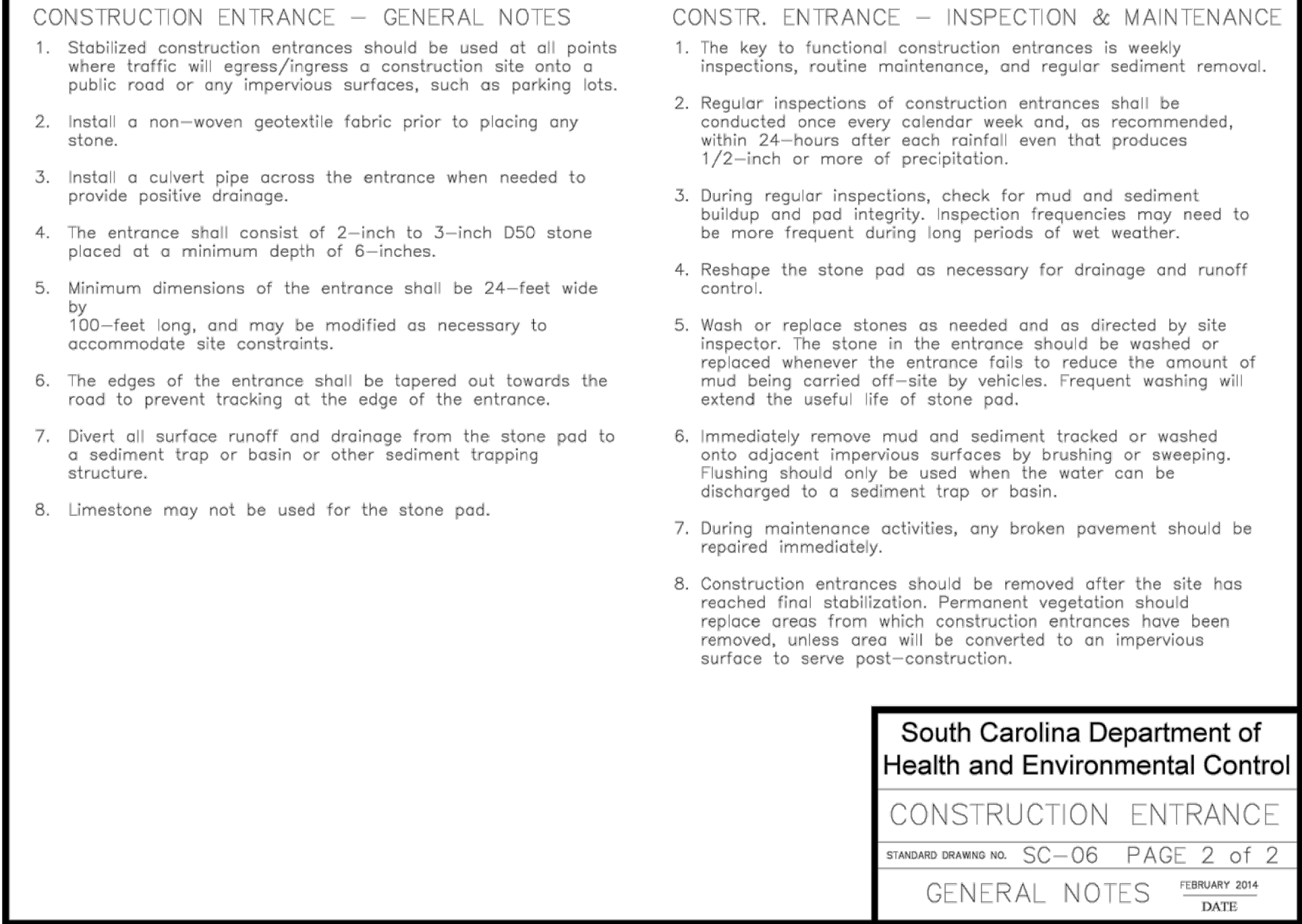
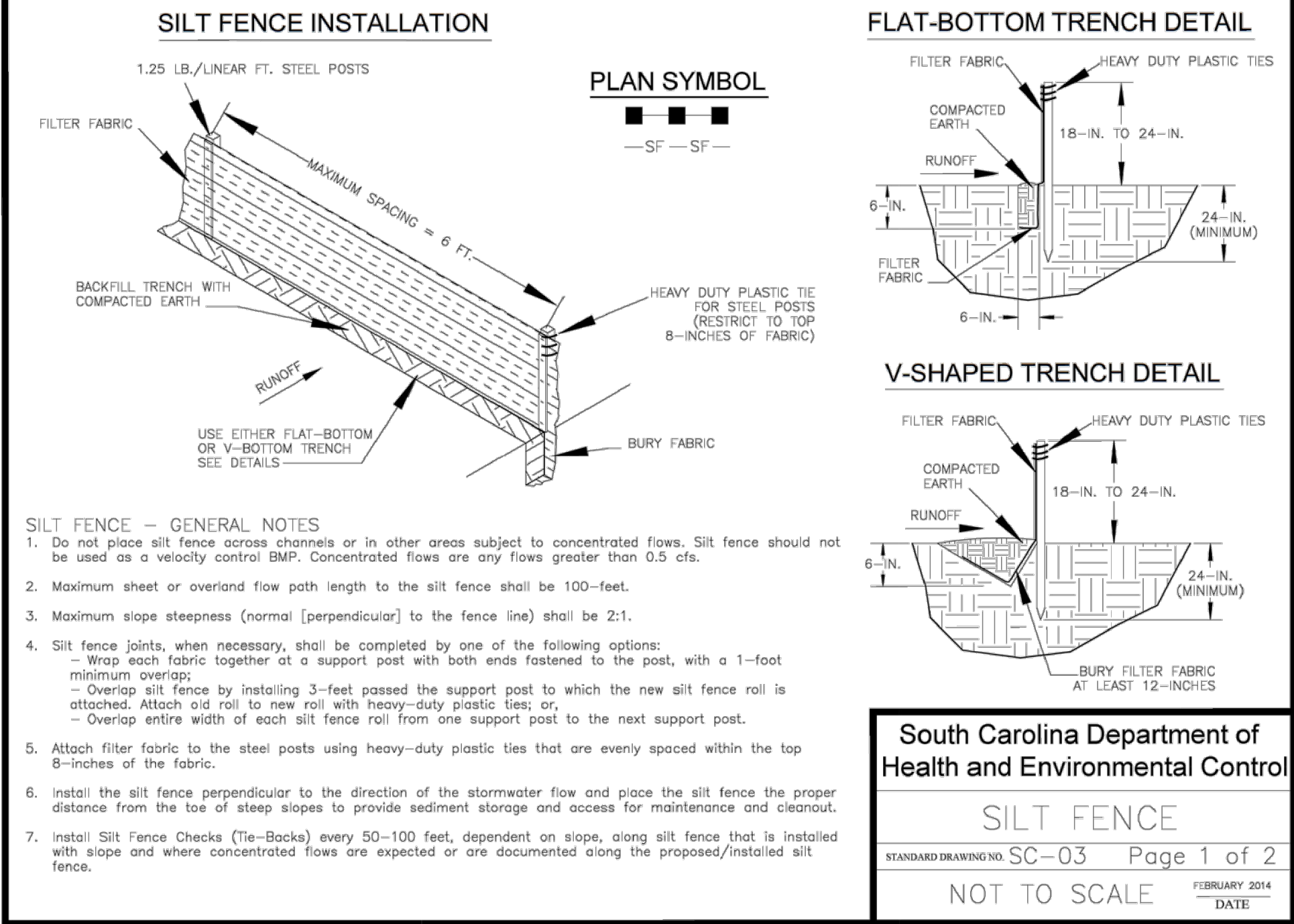
# CAROLINA CONTAINER GRAVITY SEWER

**YORK COUNTY, SC**

| PROJECT INFORMATION |          |
|---------------------|----------|
| PROJECT MANAGER:    | BAM      |
| DESIGNED BY:        | BAM      |
| DRAWN BY:           | TWD      |
| PROJECT NUMBER:     | GT35.400 |
| ORIGINAL DATE:      | 3/8/2019 |
| SHEET:              |          |

**C2.4**





ESP Associates, Inc.  
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803-502-2440 (SC)  
www.espassociates.com

**ESP**

**SOUTH CAROLINA**  
CERTIFICATE OF AUTHORIZATION  
ESP ASSOCIATES, INC.  
No. 5839

**SOUTH CAROLINA**  
REGISTERED PROFESSIONAL ENGINEER  
No. 34734  
ANDREW N. MARK

2023.09.12 13:28:39-04'00"

|          |                                 |                                  |  |  |  |
|----------|---------------------------------|----------------------------------|--|--|--|
| BY       | TWD                             | TWD                              |  |  |  |
| REVISION | REVISED PER YORK COUNTY REQUEST | REVISED PER YORK COUNTY COMMENTS |  |  |  |
| DATE     | 3/10/2023                       | 9/11/2023                        |  |  |  |
| NO.      | 1                               | 2                                |  |  |  |

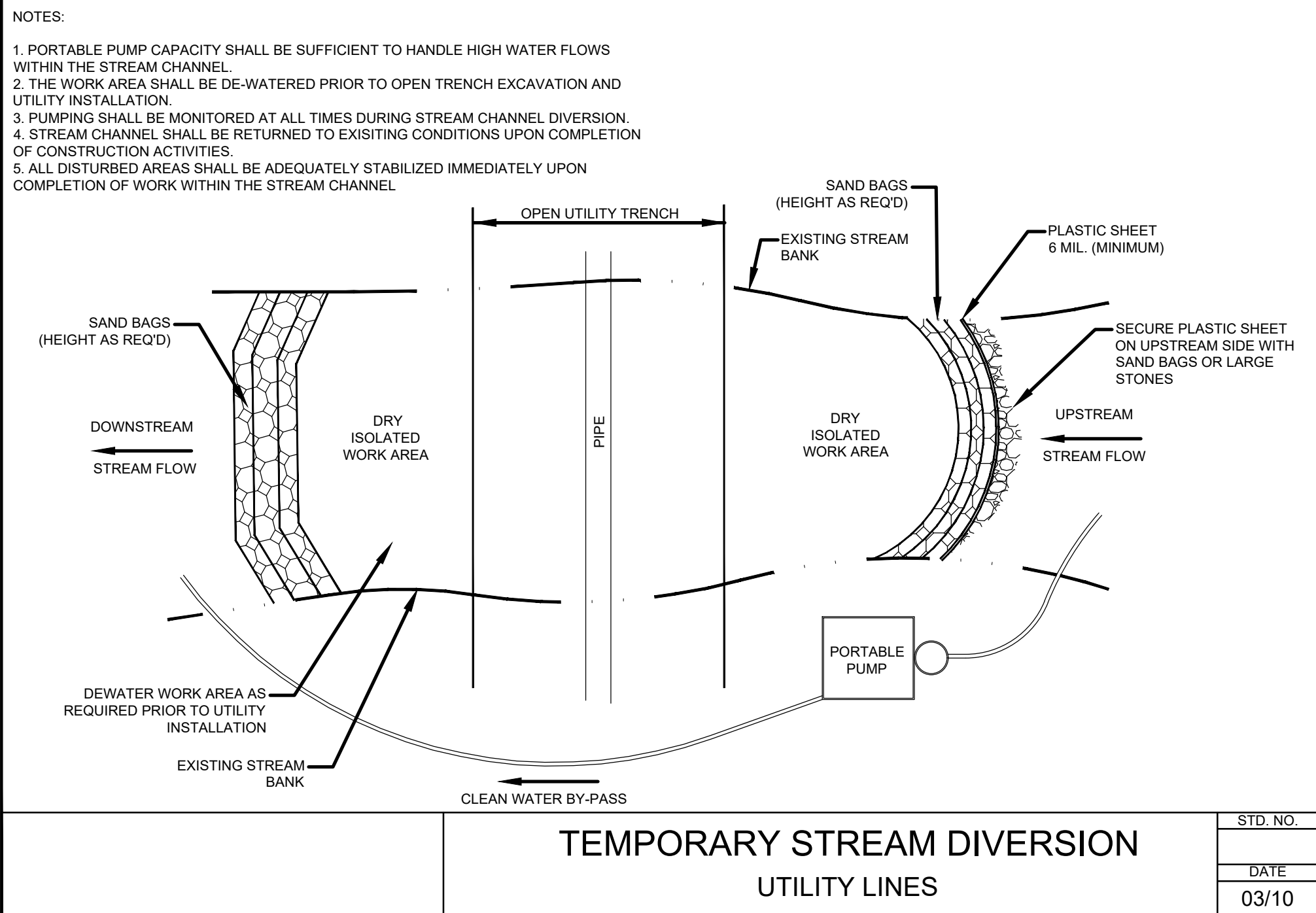
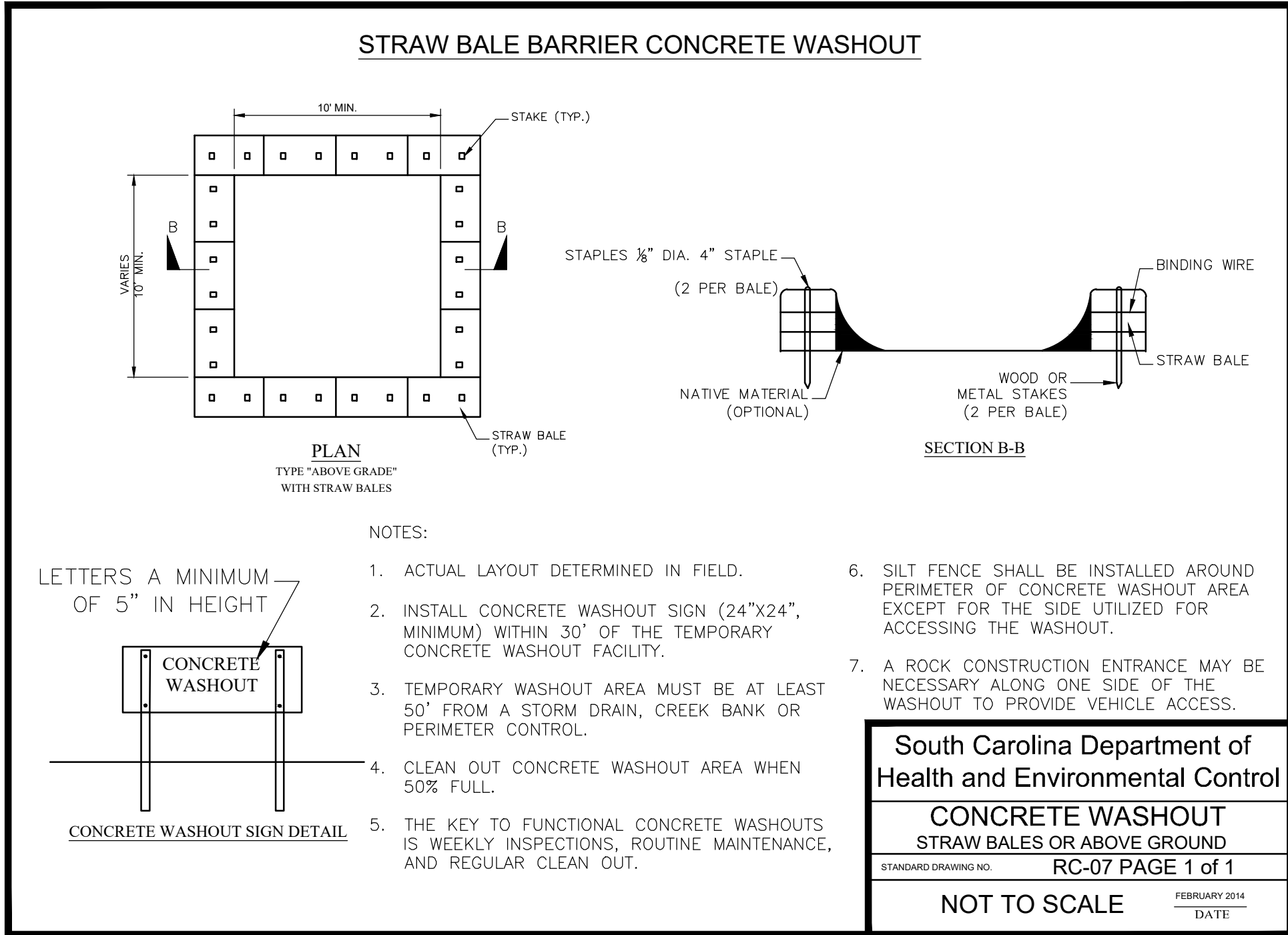
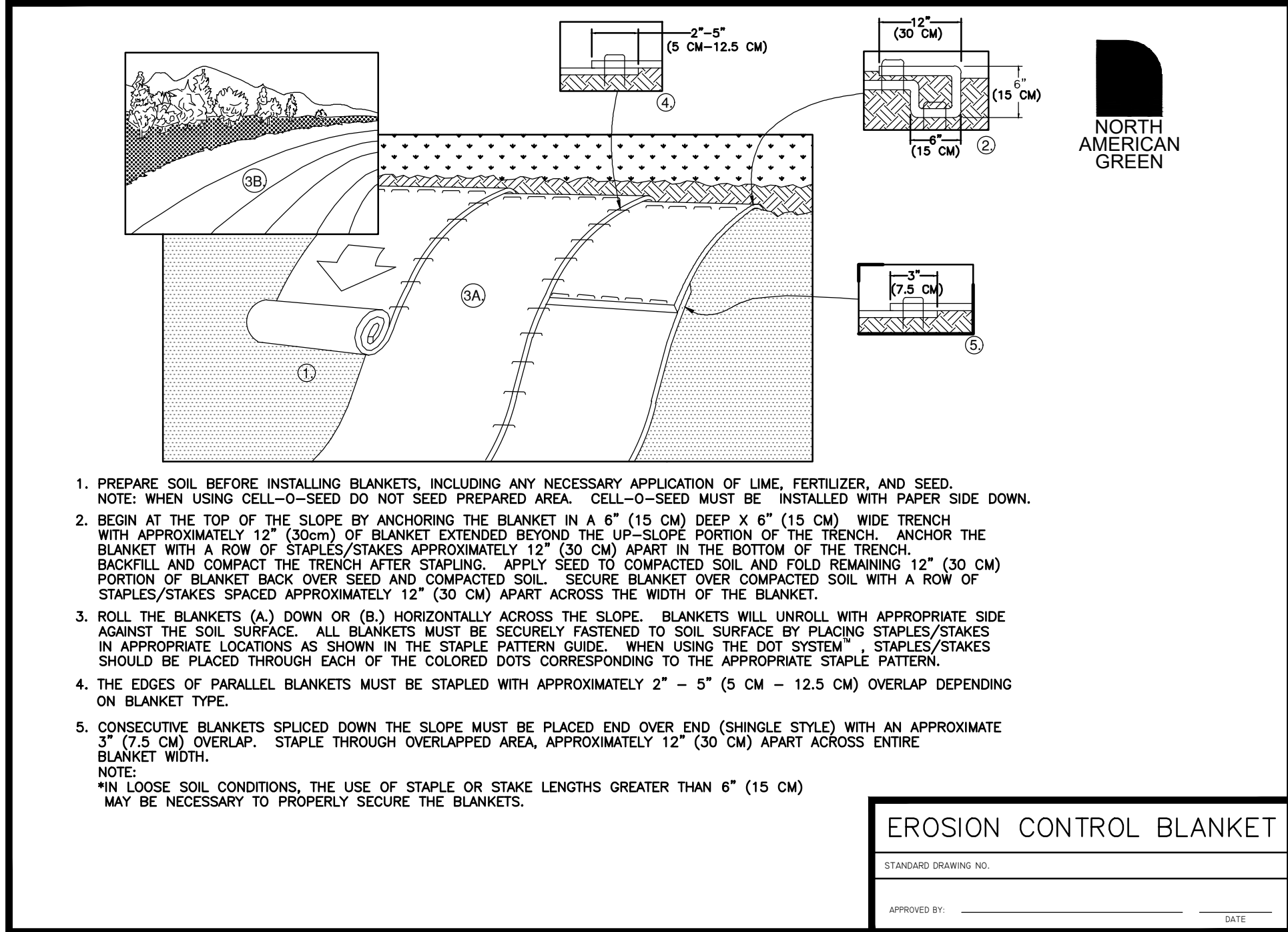
**EROSION CONTROL DETAILS**  
(SHEET 1 OF 2)

**CAROLINA CONTAINER GRAVITY SEWER**

YORK COUNTY  
YORK COUNTY, SC

|                     |          |
|---------------------|----------|
| PROJECT INFORMATION |          |
| PROJECT MANAGER:    | BAM      |
| DESIGNED BY:        | TWD      |
| DRAWN BY:           | TWD      |
| PROJECT NUMBER:     | GT35.400 |
| ORIGINAL DATE:      | 3/8/2019 |
| SHEET:              |          |
| <b>C3.0</b>         |          |





#### SCDHEC STANDARD NOTES:

- 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.
  - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 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 MEASURES 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.
  - ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
  - 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.
  - 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 OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
  - 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.
  - 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. 72-300 ET SEQ. AND SCR1000000.
  - 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.
  - 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 CANT 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.
  - 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 STORM WATER DISCHARGES.
  - 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.
  - 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.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 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.
  - 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, ETC.).
  - 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;
    - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
    - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
  - AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED 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.
  - IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs 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.
  - 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.

#### BUFFER ZONE MANAGEMENT NOTES:

- PER SECTION 3.2.4.C OF THE 2021 GCP, THIS PROJECT FALLS UNDER THE BUFFER EXEMPTION IN SECTION 3.2.4.C.IV.a AND WILL NOT REQUIRE THE USAGE OF BUFFERS.
- THE INSTALLATION OF THE GRAVITY SEWER LINE WILL REQUIRE A TEMPORARY STREAM DIVERSION. ALL AFFECTED WETLANDS AND STREAMS WILL BE RESTORED TO THEIR ORIGINAL GRADES.

#### YORK COUNTY STORMWATER ORDINANCE NOTES:

- Following the Pre-Construction Conference, contact York County Environmental Compliance at (803) 909-7250 not less than 48 hours before commencement of the land-disturbing activity. The Permittee shall also contact York County after the removal of the temporary sediment control measures and the conversion of any BMPs required to be converted into permanent control measures, once the site has been finally stabilized;
- No stage of work, related to the construction of stormwater management facilities, shall proceed to the next subsequent stage of work, according to the sequence specified in the approved C-SWPPP staged construction and inspection control schedule until it is inspected and approved by York County.
- The Permittee engaged in or conducting the land-disturbing activity shall be responsible for installing and maintaining all temporary and permanent erosion and sediment control measures and facilities during the development of a site, as required by the approved plan or any provision of the York County Stormwater Ordinance. Operations and maintenance conditions shall be included in the plan outlining how the Permittee and Owner intends to provide for operations and maintenance during and post construction;
- Stockpiles shall be temporary and shall be leveled to conform to surrounding elevation as a precondition for any of the following, whichever occurs first:
  - Request for a Notice of Termination, or
  - Request for York County acceptance of a road or street in accordance with the road/street acceptance requirements of Chapter 154 - Subdivision Code of the York County Code of Ordinances.
- Areas at final grade shall receive permanent stabilization measures within 14 calendar days of reaching final grade;
- The responsibility for maintaining all permanent erosion and sediment control measures and facilities, including easements, after site land-disturbing activity is completed shall lie with the landowner or person in possession or control including the Developer, the Developer's Designee, or any Homeowner's Association, Property Owner's Association or other common owner entity established for the governance/administration of a subdivision or common plan of development, except facilities and measures installed within road or street rights-of-way or easements accepted for maintenance by York County;
- Approved plans remain valid for five years from the date of an approval.



|                                           |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |
|-------------------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|
| EROSION CONTROL DETAILS<br>(SHEET 2 OF 2) |  |  |  |  |  |  |  |  |  | CAROLINA CONTAINER GRAVITY SEWER<br>YORK COUNTY, SC |  |  |  |  |  |  |  |  |  |
| PROJECT INFORMATION                       |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |
| PROJECT MANAGER:                          |  |  |  |  |  |  |  |  |  | BAM                                                 |  |  |  |  |  |  |  |  |  |
| DESIGNED BY:                              |  |  |  |  |  |  |  |  |  | BAM                                                 |  |  |  |  |  |  |  |  |  |
| DRAWN BY:                                 |  |  |  |  |  |  |  |  |  | TWD                                                 |  |  |  |  |  |  |  |  |  |
| PROJECT NUMBER:                           |  |  |  |  |  |  |  |  |  | GT35.400                                            |  |  |  |  |  |  |  |  |  |
| ORIGINAL DATE:                            |  |  |  |  |  |  |  |  |  | 3/8/2019                                            |  |  |  |  |  |  |  |  |  |
| SHEET:                                    |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |
| C3.1                                      |  |  |  |  |  |  |  |  |  |                                                     |  |  |  |  |  |  |  |  |  |