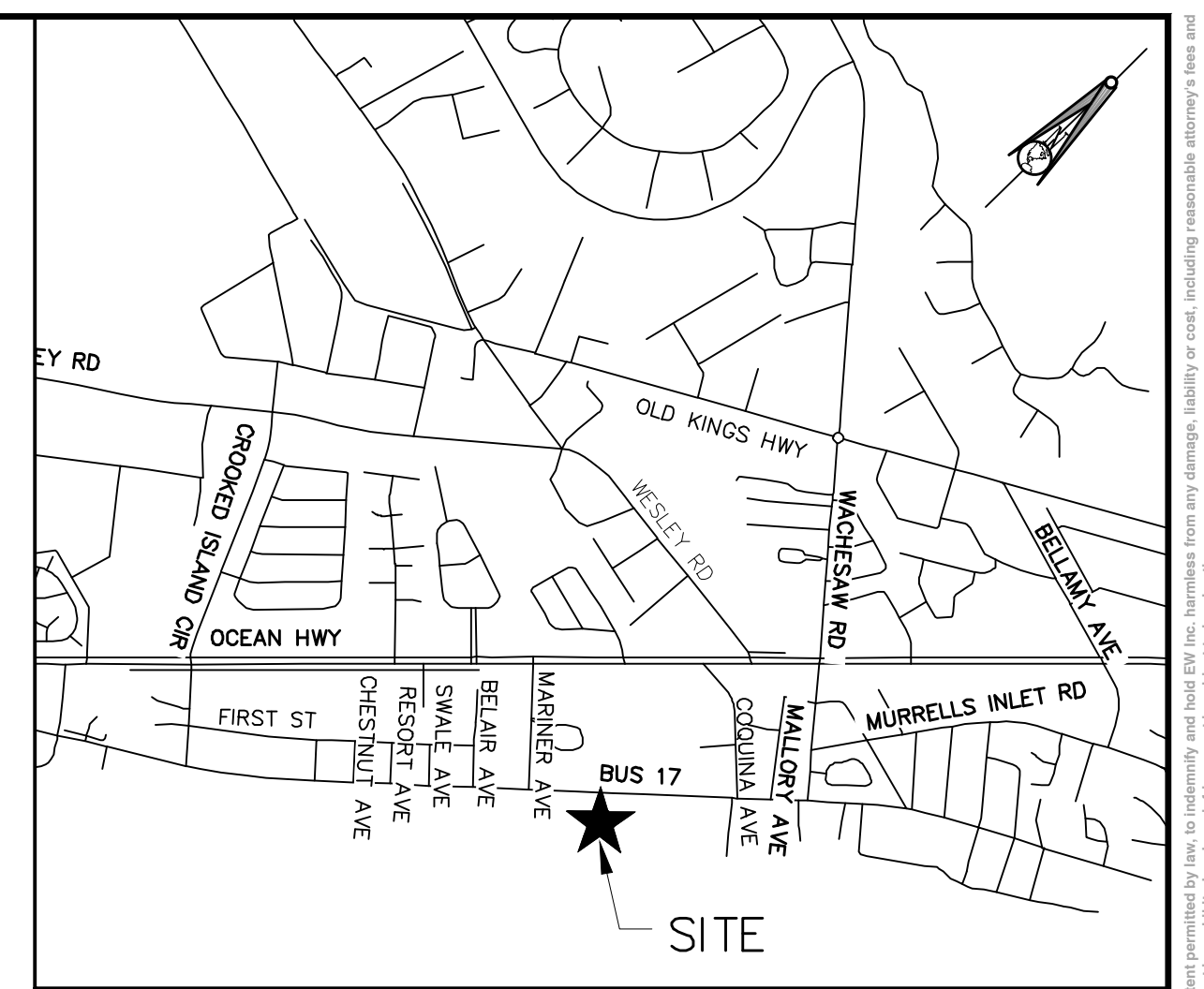
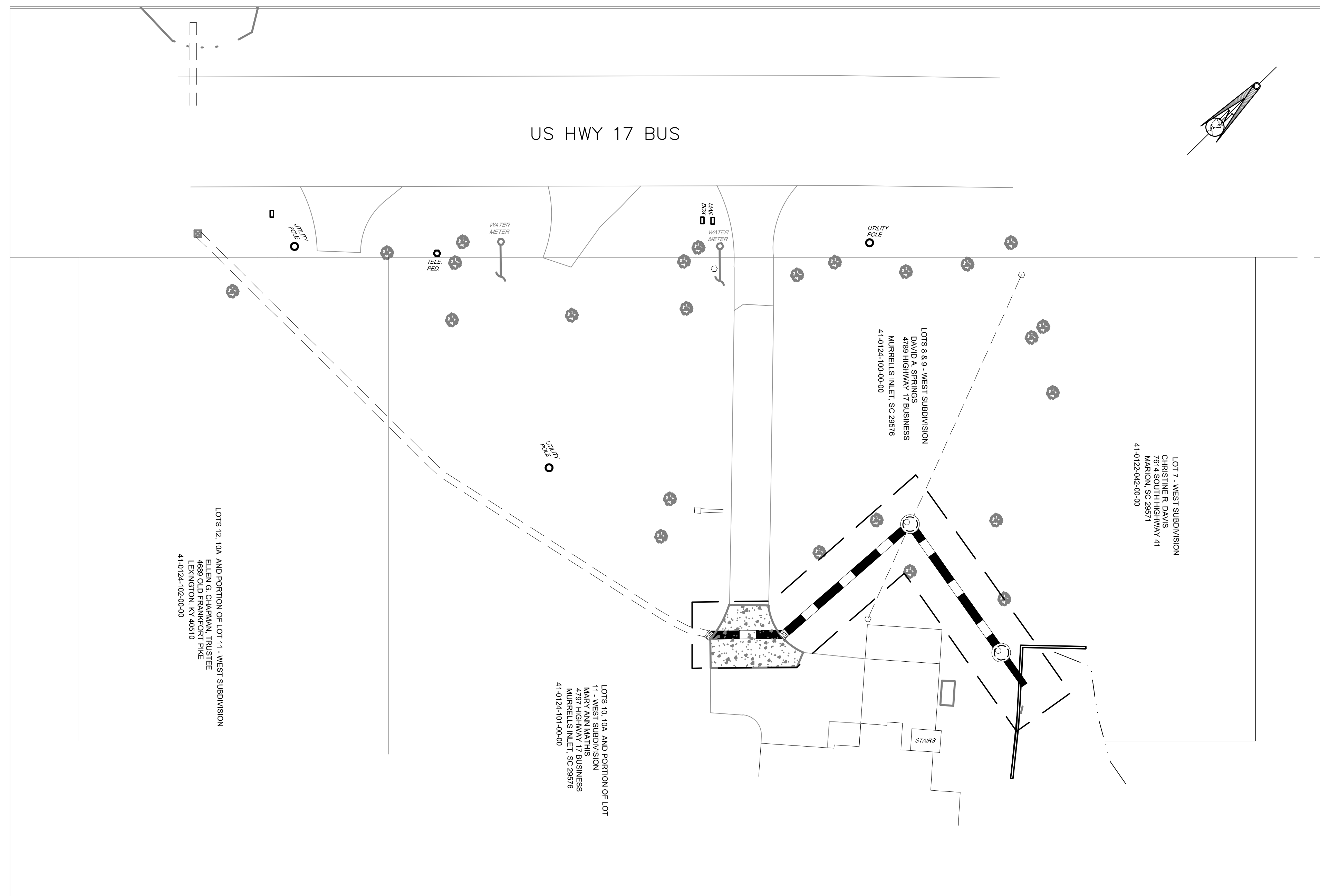


CONSTRUCTION PLANS OF SPRINGS RESIDENT OUTFALL

PREPARED FOR:
GEORGETOWN COUNTY GOVERNMENT
108 SCREVEN STREET
GEORGETOWN, SC 29544



VICINITY MAP
SCALE: 1" = 500'



- | | |
|-------|----------------------------------|
| G-001 | COVER |
| C-001 | GENERAL NOTES & REQUIEMENTS |
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[illegible]

PREPARED BY:

EARTHWORKS
planning and design consultants

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STANDARD OCRM NOTES

1. 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 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.
3. 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 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 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. 72-300 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 STORM 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, ETC.).
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;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. 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.
18. 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.
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.
- * COPIED FROM "STORMWATER MANAGEMENT AND SEDIMENT AND EROSION CONTROL PLAN REVIEW CHECKLIST FOR DESIGN PROFESSIONALS" FILE NAME CHECKLIST.DOC, UPDATED 12/2012, PG. 11 - 12

CONSTRUCTION SEQUENCE:

1. INSTALL CONSTRUCTION ENTRANCE.
2. CLEAR AND GRUB AREAS FOR PERIMETER CONTROLS.
3. INSTALL SEDIMENT BASINS/CHECK DAMS/PERIMETER SILT FENCE
4. COMPLETE SITE CLEARING & GRUBBING
5. EXCAVATE PONDS AS NEEDED
6. INSTALL UTILITIES AND STORMWATER PIPING/CONTROLS
7. ROUGH GRADE ROADS AND DRAINAGE
8. GRADING FOR REMAINDER OF SITE
9. FINAL GRADING, LANDSCAPING AND STABILIZATION
10. REMOVAL OF SEDIMENT CONTROLS WITHIN 30 DAYS OF FINAL STABILIZATION

NOTE: AS-BUILTS (RECORD DRAWINGS) ARE TO BE SUPPLIED TO GEORGETOWN COUNTY PRIOR TO FINAL INSPECTION. THESE ARE TO BE CERTIFIED BY EITHER A PE OR PLS.

STATE PLANE COORDINATES

ALL BEARINGS SHOWN HERE ON ARE BASED UPON THE SOUTH CAROLINA STATE PLAN COORDINATES SYSTEM (NAD83) AND WERE PROVIDED BY THE SURVEYOR. STATE PLANE COORDINATES SHOWN ARE FOR REFERENCE ONLY AND DO NOT REPRESENT SURVEYED COORDINATES.

VERTICAL DATUM NAVD88

THE ELEVATIONS SHOWN HEREON WERE PROVIDED BY THE SURVEYOR AND ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

NOTE: SURVEYOR AND CONTRACTOR SHALL VERIFY LOCATION OF ALL INFRASTRUCTURE IMPROVEMENTS AND PROPERTY CORNERS PRIOR TO CONSTRUCTION AND NOTIFY THE DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND.

GENERAL REQUIREMENTS:

1. CONTRACT DOCUMENTS - THESE ARE THE DOCUMENTS ISSUED FOR CONSTRUCTION OF THE PROJECT AND INCLUDE AT A MINIMUM: 1) THE OWNER/CONTRACTOR AGREEMENT; 2) THE GENERAL AND ANY SUPPLEMENTARY CONDITIONS; 3) TECHNICAL SPECIFICATIONS; 4) CONSTRUCTION DRAWINGS (PLANS); AND, 5) ANY AUTHORIZED CHANGE ORDERS. THE CONTRACTOR WILL SATISFY HIMSELF/HERSELF THAT THEY HAVE A COMPLETE SET OF THESE DOCUMENTS AND HAVE REVIEWED THE SAME AS THESE DOCUMENTS ARE COMPLIMENTARY OF EACH OTHER. SHOULD THERE BE A CONFLICT BETWEEN THE CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
2. BEFORE UNDERTAKING EACH PART OF THE WORK, CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND CHECK AND VERIFY PERTINENT FIGURES SHOWN THEREON AND ALL APPLICABLE FIELD MEASUREMENTS. CONTRACTOR SHALL PROMPTLY REPORT IN WRITING TO ENGINEER ANY CONFLICT, ERROR OR DISCREPANCY WHICH CONTRACTOR MAY DISCOVER AND SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM ENGINEER BEFORE PROCEEDING WITH ANY WORK AFFECTED THEREBY.
3. THE INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES ON OR ADJACENT TO THE SITE IS BASED ON INFORMATION AND DATA FURNISHED TO THE ENGINEER BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR AS INDICATED ON THE UTILITY PLANS. CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, AND FOR THE SAFETY AND PROTECTION OF THE SAME.

CONTRACTOR'S RESPONSIBILITIES

1. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK COMPETENTLY AND EFFICIENTLY, DEVOTING NECESSARY ATTENTION AND APPLYING SKILLS AND EXPERTISE AS MAY BE NECESSARY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT THE FINISHED WORK COMPLIES ACCURATELY WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL KEEP ON THE WORK AT ALL TIMES DURING ITS PROGRESS A COMPETENT RESIDENT SUPERINTENDENT, WHO SHALL HAVE AUTHORITY TO ACT ON BEHALF OF CONTRACTOR. ALL COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO CONTRACTOR.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO THE OWNER FOR ALL ACTS AND OMISSIONS OF THE SUBCONTRACTORS, SUPPLIERS AND OTHER PERSONS AND ORGANIZATIONS PERFORMING OR FURNISHING ANY OF THE WORK UNDER A DIRECT OR INDIRECT CONTRACT WITH CONTRACTOR JUST AS CONTRACTOR IS RESPONSIBLE FOR CONTRACTOR'S OWN ACTS AND OMISSIONS.
4. CONTRACTOR SHALL CONFINE CONSTRUCTION EQUIPMENT, THE STORAGE OF MATERIALS AND EQUIPMENT AND THE OPERATIONS OF WORKERS TO THE PROJECT SITE AND LAND AND AREAS IDENTIFIED IN AND PERMITTED BY THE CONTRACT DOCUMENTS AND OTHER AREAS AS PERMITTED (I.E. RIGHTS-OF-WAY AND EASEMENTS). CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY TO THE OWNER OR OCCUPANT FOR ANY DAMAGE TO ANY LAND OR AREA CONTIGUOUS TO THE AREAS PREVIOUSLY IDENTIFIED, RESULTING FROM THE PERFORMANCE OF THE WORK. CONTRACTOR SHALL, TO THE FULLEST EXTENT PERMITTED BY LAWS AND REGULATIONS, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM AND AGAINST ALL CLAIMS BROUGHT BY SAID PARTIES ARISING OUT OF THE CONTRACTOR'S PERFORMANCE OF THE WORK.

OWNER'S RESPONSIBILITIES

1. THE OWNER SHALL FURNISH THE DATA REQUIRED OF OWNER UNDER THE CONTRACT DOCUMENTS PROMPTLY AND SHALL MAKE PAYMENTS TO CONTRACTOR PROMPTLY AFTER THEY ARE DUE AS AGREED TO BY BOTH PARTIES.
2. THE OWNER SHALL FURNISH THE LANDS UPON WHICH THE WORK IS TO BE PERFORMED, INCLUDING RIGHTS-OF-WAY AND EASEMENTS FOR ACCESS, AND SUCH OTHER LANDS WHICH ARE DESIGNATED FOR THE USE OF CONTRACTOR. EASEMENTS FOR PERMANENT STRUCTURES OR PERMANENT CHANGES IN EXISTING FACILITIES WILL BE OBTAINED AND PAID FOR BY OWNER. CONTRACTOR SHALL PROVIDE FOR ALL ADDITIONAL LANDS AND ACCESS THERETO THAT MAY BE REQUIRED FOR TEMPORARY CONSTRUCTION FACILITIES OR STORAGE OF MATERIALS AND EQUIPMENT.
3. THE OWNER SHALL ISSUE ALL COMMUNICATIONS TO CONTRACTOR THROUGH ENGINEER.

ENGINEER'S RESPONSIBILITIES

1. THE ENGINEER WILL BE OWNER'S REPRESENTATIVE DURING THE CONSTRUCTION PERIOD. MAKE VISITS TO THE SITE AT INTERVALS APPROPRIATE TO THE VARIOUS STAGES OF CONSTRUCTION TO OBSERVE THE PROGRESS AND QUALITY OF THE EXECUTED WORK AND TO DETERMINE, IN GENERAL, IF THE WORK IS PROCEEDING IN SUBSTANTIAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THE ENGINEER WILL ISSUE WITH REASONABLE PROMPTNESS SUCH WRITTEN CLARIFICATIONS OR INTERPRETATIONS OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AS ENGINEER MAY DETERMINE NECESSARY, CONSISTENT WITH THE OVERALL INTENT OF THE CONTRACT DOCUMENTS.
3. THE ENGINEER WILL HAVE AUTHORITY TO DISAPPROVE OR REJECT WORK WHICH ENGINEER BELIEVES TO BE DEFECTIVE AND WILL ALSO HAVE AUTHORITY TO REQUIRE SPECIAL INSPECTION OR TESTING OF THE WORK AS PROVIDED HEREIN. THE ENGINEER SHALL NOTIFY THE CONTRACTOR IN WRITING OF ANY DISAPPROVAL AND/OR REJECTION.
4. ENGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, AND ENGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO PERFORM OR FURNISH THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. ENGINEER WILL PROVIDE AT THE CONTRACTOR'S REQUEST A DIGITAL FILE (AUTOCAD FORMAT) FOR STAKING OUT THE PROJECT. THE ENGINEER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, IN THE CONTRACTOR'S UTILIZATION OF THIS DATA SOLELY FOR THE STAKING OF THE WORK. THE CONTRACT DOCUMENTS, AS DEFINED ABOVE, WILL SERVE AS THE BINDING REQUIREMENTS FOR STAKING AND SUBSEQUENT CONSTRUCTION. THE CONTRACTOR AND/OR THEIR AGENT ARE RESPONSIBLE FOR THE PROPER LAYOUT OF THE PROJECT AND WILL NOTIFY THE ENGINEER OF ANY CONFLICTS ENCOUNTERED IN DIGITAL FILES RECEIVED FROM THE ENGINEER.

EXISTING UTILITIES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS/INVERTS OF EXISTING UTILITIES WHERE CONNECTIONS WILL BE MADE AS PART OF THE WORK DEFINED HEREIN PRIOR TO THE START OF ANY UTILITY WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD MEASUREMENTS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST CLARIFICATION.
2. EXISTING SUBSURFACE UTILITIES, UNLESS OTHERWISE NOTED ON THE EXISTING SURVEY PLAN, ARE BASED ON RECORD DOCUMENTS PROVIDED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL CONTACT PALMETTO UTILITY PROTECTION SERVICES (P.U.P.S.) AT 1-888-721-7877 SEVENTY-TWO (72) HOURS PRIOR TO ANY EARTHWORK OPERATIONS.

UTILITY NOTES:

1. ALL WORK SHOWN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SITE WORK SPECIFICATIONS.
2. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
3. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION. CALL PUPS 1-800-922-0983 AND GCWSD 1-843-546-8408 FOR UTILITY LINE LOCATION.
4. CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION AND SCHEDULING OF THE TIE-INS/CONNECTIONS TO THEIR FACILITIES.
5. THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
6. WHERE FIELD INSPECTIONS ARE REQUIRED BY THE REGULATORY AGENCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE SUCH INSPECTIONS.
7. A PUBLIC ENTITY SHALL BE RESPONSIBLE FOR THE OPERATION, MAINTENANCE, AND REPLACEMENT OF ALL SYSTEM COMPONENTS BEGINNING WITH THE SOLIDS INTERCEPTOR TANKS AND PUMPING SYSTEMS. PROPOSALS BY PRIVATE ENTITIES SHALL BE EVALUATED ON A CASE-BY-CASE BASIS. THE DEPARTMENT MAY EVALUATE THE CAPABILITY OF RELIABLE SYSTEM OPERATION IN ITS EVALUATION.
8. THERE SHALL BE A MINIMUM OF 18 INCHES VERTICAL SEPARATION BETWEEN ALL UTILITY LINES.

BUREAU OF WATER REQUIREMENTS:

1. AN ONSITE INSPECTION BOX SHALL BE PROVIDED AND ACCESSIBLE UNTIL FINAL STABILIZATION IS ACHIEVED.
2. RAIN GAUGE SHOULD BE PROVIDED BY CONTRACTORS AND STATE THE RAIN LOG (LOCATED IN SWPPP) SHOULD BE UPDATED DAILY BY CONTRACTOR OR 3RD PARTY.
3. THE CONTRACTOR SHALL MAINTAIN AND HAVE AVAILABLE ON SITE AT ALL TIMES REQUIREMENTS SET FORTH IN THE PROVIDED SWPPP, TO INCLUDE BUT NOT LIMITED TO THE ONSITE INSPECTION LOG AND ONSITE MAINTENANCE LOG.

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL ADJUST ANY MANHOLE RIM BY 3-1/2" (1 COURSE) UP OR DOWN TO FIT FIELD CONDITIONS. AT NO ADDITIONAL COST TO THE ENGINEER OR THE OWNER, ADJUSTMENTS ABOVE ONE COURSE FOR THE MANHOLE RIMS SHALL BE APPROVED BY THE ENGINEER.
2. PROPOSED FIRE HYDRANTS LOCATED IN FIELD SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY'S SPECIFICATIONS AS SHOWN ON THE FIRE HYDRANT DETAILS. ANY SHOWN ON PLANS, LOCATION AND SCALE HAVE BEEN MODIFIED FOR CLARITY. DO NOT SCALE THE FIRE HYDRANT LOCATIONS FROM THE PLAN.
3. PROPOSED CATCH BASIN GRATE ELEVATIONS ARE SUBJECT TO FIELD CHANGES ONLY IF APPROVED BY THE ENGINEER.
4. ANY CHANGES OR DEVIATIONS FROM THE PERMITTED PLANS DURING CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER. EXTRA WORK CAUSED BY THE FAILURE TO FOLLOW THE PLANS SHALL BE AT THE SOLE EXPENSE OF THE OWNER OR CONTRACTOR.
5. FINISHED FLOOR ELEVATION TO BE ESTABLISHED BY THE BUILDING DESIGNER / ARCHITECT. ALL BUILDINGS SHALL BE A MINIMUM OF 12 INCHES ABOVE THE ROAD CENTERLINE ELEVATION.
6. ANY LOCATIONS OR ELEVATIONS SHOWN ON PLANS AS EXISTING ARE TO BE FIELD VERIFIED BY CONTRACTOR IN COORDINATION WITH RESPECTIVE UTILITY AGENCY. ANY FOUND DEVIATION FROM PLAN LOCATIONS OR ELEVATIONS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION METHODS CAN COMMENCE.

GENERAL PAVEMENT NOTES:

1. BASE COMPACTED TO 100% MODIFIED PROCTOR DENSITY. SUBGRADE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. ALL FILL TO BE PLACED IN 6" LIFTS AND COMPACTED, MIN. 18" FOR COMPACTED SUBGRADE.
2. PROTECT INLETS PRIOR TO PAVING.
3. CONTRACTOR TO PROVIDE ASPHALT CORES, GRADATION AND DENSITY.
4. THERE MUST BE AN APPROVED S/G AND CURBLINE PROOF ROLL PRIOR TO LAYING CURB AND GUTTER.
5. UNDERDRAINS ARE TO BE INSTALLED BEHIND ALL CURB AND GUTTER AND EXTENDED FROM BOX TO BOX.
6. SOIL BORINGS SHALL BE TAKEN A MINIMUM OF EVERY 500 FT. OF ROADWAY CENTERLINE AND A GEOTECHNICAL REPORT SHALL ACCOMPANY THESE PLANS.
7. ALL CLEARING AND GRUBBING IS TO MEET SCODOT SPECIFICATIONS.
8. A MINIMUM OF 6" OF GABC IS TO BE INSTALLED BELOW CURB.
9. PROOF-ROLLING SHALL BE PERFORMED WITH A LOADED TANDEM AXLE DUMP TRUCK. WEIGHT TICKET SHOWING THE CURRENT LOAD COMING FROM A SC CERTIFIED SCALE MASTER MUST BE PROVIDED AT BEGINNING OF PROOF ROLL INSPECTION. WEIGHT TICKET CANNOT HAVE BEEN ISSUED MORE THAN ONE HOUR PRIOR TO BEGINNING PROOF ROLL INSPECTION. GROSS VEHICLE WEIGHT SHALL BE NO LESS THAN 65,000-LBS. IN LIEU OF THIS REQUIREMENT CONTRACTOR MAY PROVIDE TANDEM DUMP TRUCK LOADED WITH GABC WITH ZERO FREEBOARD. LOAD MUST BE DUMPED ONSITE AT THE END OF THE PROOF ROLL FOR INSPECTION BY THE COUNTY INSPECTOR. ANY MATERIAL FOUND OTHER THAN GABC WILL RESULT IN AN INSPECTION FAILURE.

GRASSING SPECIFICATIONS

TEMPORARY SEEDING - COASTAL SANDY, DROUGHTY SITES												
SPECIES	LIBRAC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
BROWNTOP MILLET	40											
RYE GRASS	56											
WELL DRAINED, CLAYEY LOAMY SITES												
BROWNTOP MILLET	40											
JAPANESE MILLET	40											
RYE GRASS	56											
OATS	75											

PERMANENT SEEDING - COASTAL SANDY, DROUGHTY SITES												
SPECIES	LIBRAC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
BROWNTOP MILLET	10											
BAHAGRASS	40											
BROWNTOP MILLET	10											
BAHAGRASS	30											
SPECIES LESEPREDEZ	40											
BROWNTOP MILLET	10											
ATLANTIC COASTAL PANGRASS	15											
BROWNTOP MILLET	PLS											
SWITCHGRASS	8											
ALAMIS	PLS											
LITTLE BLUESTEM	4											
SPECIES LESEPREDEZ	20											
BROWNTOP MILLET	10											
WEeping LOVEGRASS	8											
WELL DRAINED, CLAYEY LOAMY SITES												
BROWNTOP MILLET	10											
BAHAGRASS	40											
RYE GRASS	10											
BAHAGRASS	40											
CLOVER CRIMSON	5											
BROWNTOP MILLET	10											
BAHAGRASS	30											
SPECIES LESEPREDEZ	40											
BROWNTOP MILLET	10											
BERMUDA, COMMON	10											
BROWNTOP MILLET	10											
BERMUDA, COMMON	12											
KOBE LESEPREDEZ	10											
MANUAL	10											
BROWNTOP MILLET	10											
BAHAGRASS	20											
BERMUDA, COMMON	40											
SPECIES LESEPREDEZ	10											
BROWNTOP MILLET	10											
SWITCHGRASS	8											
LITTLE BLUESTEM	3											
INDIANGRASS	PLS											
	PLS											

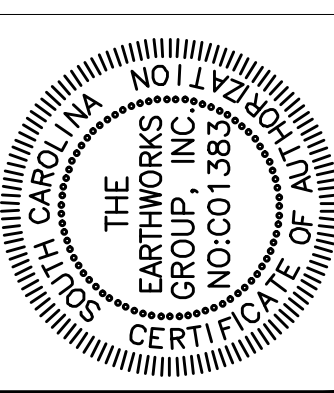
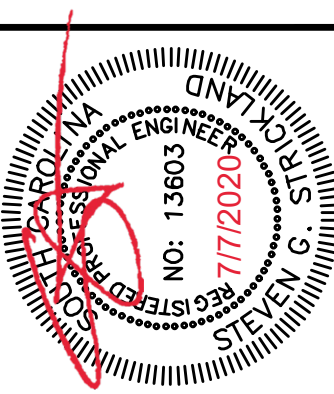
NOTE:

ALL GRASSED AREAS SHALL BE SEEDED AND WATERED UNTIL 70% OF THE AREA IS STABILIZED. ALL BARE AREAS SHALL BE RETREATED EVERY 14 DAYS UNTIL GRASS IS ESTABLISHED.

EARTHWORKS

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SPRINGS RESIDENT OUTFALL

GENERAL NOTES & REQUIREMENTS

PREPARED FOR: GEORGETOWN COUNTY
108 SHELTON STREET
GEORGETOWN, SC 29844



Scale: 1" = 40'

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06-27-2019	PER CLIENT COMMENTS 06-19-2019
2	07-17-2019	PER CLIENT COMMENTS 07-16-2019
3	11-05-2020	PER CLIENT COMMENTS 11-05-2019
4	01-03-2020	ADDED EASEMENT DATA
5	03-25-2020	PER OCRM COMMENT REMOVED RIP RAP
6	06-18-2020	PER OCRM COMMENT 24" RCP

PROJECT: 181096
DATE: 11/5/19
SCALE: N.T.S.
DESIGNED BY: DAT
DRAWN BY: DAT
CHECKED BY: SGS

SHEET TITLE

GENERAL NOTES

C001

SHEET

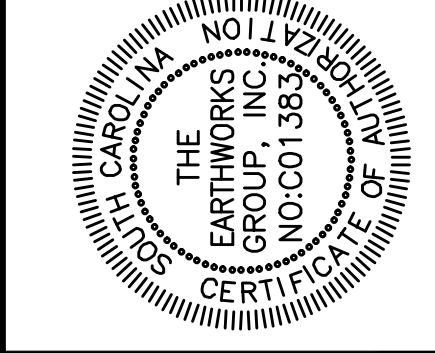
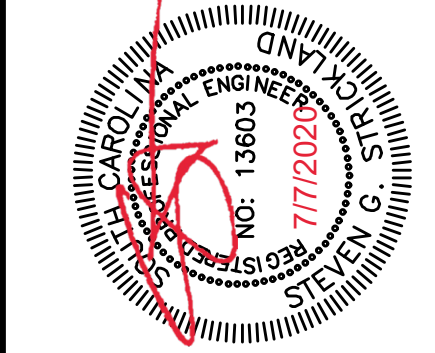


NOTES:

1. ZONED GR BUILDING SETBACKS
FRONT = 25'
SIDE = 10'
STREET SIDE = 16.5'
REAR = 20'
MIN. LOT WIDTH AT BUILDING SITE = 60'
2. ELEVATIONS HEREON BASED NAVD '88 DATUM
3. REFERENCE "TOPOGRAPHIC MAP" BY CUNNINGHAM LAND SURVEYING, LLC. PREPARED FOR GEORGETOWN COUNTY, DATED MAY 22, 2014.
4. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH ALL EXISTING UTILITIES, WATER & SEWER SERVICE OR POTENTIAL COLLISION. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY SERVICES AS NECESSARY.

EARTHWORKS
planning and design consultants

11655 HIGHWAY 707
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(FAX) 843.651.7903
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SPRINGS RESIDENT OUTFALL

EXISTING TOPO & BOUNDARY SURVEY

PREPARED FOR: GEORGETOWN COUNTY
108 SCREVEN STREET
GEORGETOWN, SC 29544



20

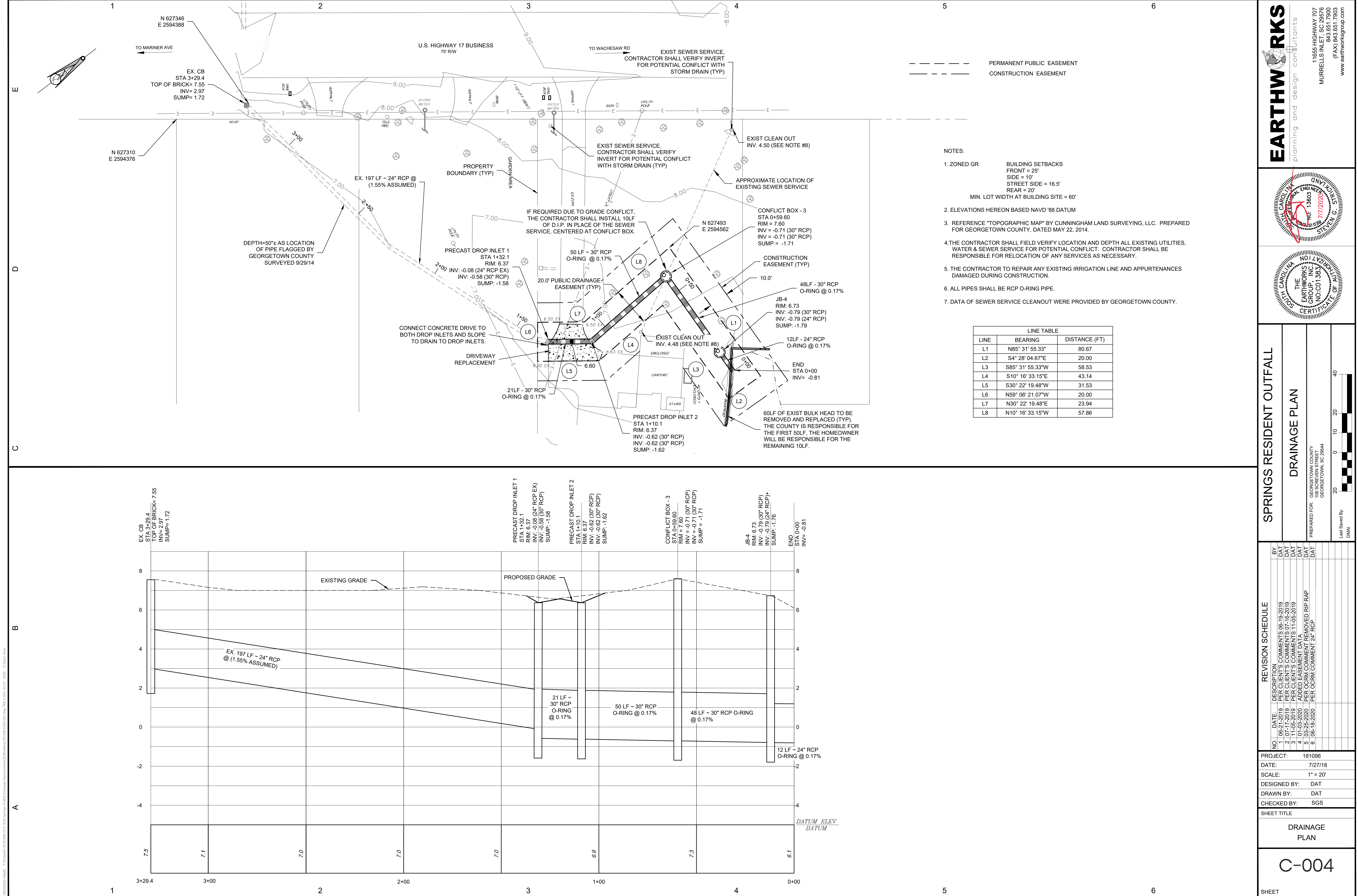
REVISION SCHEDULE		
NO	DATE	DESCRIPTION
1	06-27-2019	PER CLIENT'S COMMENTS 06-19-2019
2	07-17-2019	PER CLIENT'S COMMENTS 07-16-2019
3	11-05-2019	PER CLIENT'S COMMENTS 11-05-2019
4	01-03-2020	ADDED EASEMENT DATA
5	03-25-2020	PER OCRM COMMENT REMOVED RIP RAP
6	06-16-2020	PER OCRM COMMENT 24" RCP

PROJECT:	181096
DATE:	7/18/19
SCALE:	1" = 20'
DESIGNED BY:	DAT
DRAWN BY:	DAT
CHECKED BY:	SGS

EXISTING TOPO
& BOUNDARY SURVEY

C-002

SHEET



NOTES:

1. ZONED GR BUILDING SETBACKS
FRONT = 25'
SIDE = 10'
STREET SIDE = 16.5'
REAR = 20'
MIN. LOT WIDTH AT BUILDING SITE = 60'
2. ELEVATIONS HEREON BASED NAVD '88 DATUM
3. REFERENCE "TOPOGRAPHIC MAP" BY CUNNINGHAM LAND SURVEYING, LLC. PREPARED FOR GEORGETOWN COUNTY, DATED MAY 22, 2014.
4. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH ALL EXISTING UTILITIES, WATER & SEWER SERVICE FOR POTENTIAL CONFLICT. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY SERVICES AS NECESSARY.
5. THE CONTRACTOR TO REPAIR ANY EXISTING IRRIGATION LINE AND APPURTENANCES DAMAGED DURING CONSTRUCTION.
6. ALL PIPES SHALL BE RCP O-RING PIPE.
7. DATA OF SEWER SERVICE CLEANOUT WERE PROVIDED BY GEORGETOWN COUNTY.

PERMANENT PUBLIC EASEMENT
CONSTRUCTION EASEMENT

SPRINGS RESIDENT OUTFALL DRAINAGE PLAN

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06-21-2019	PER CLIENT'S COMMENTS 06-19-2019
2	07-17-2019	PER CLIENT'S COMMENTS 07-16-2019
3	08-01-2019	PER CLIENT'S COMMENTS 07-31-2019
4	01-03-2020	ADDED EASEMENT DATA
5	03-25-2020	PER OCRM COMMENT REMOVED RIP RAP
6	06-18-2020	PER OCRM COMMENT 24" RCP

PROJECT: 181096
DATE: 7/27/18
SCALE: 1" = 20'
DESIGNED BY: DAT
DRAWN BY: DAT
CHECKED BY: SGS
SHEET TITLE: DRAINAGE PLAN
C-004

planning and design consultants

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SPRINGS RESIDENT OUTFALL

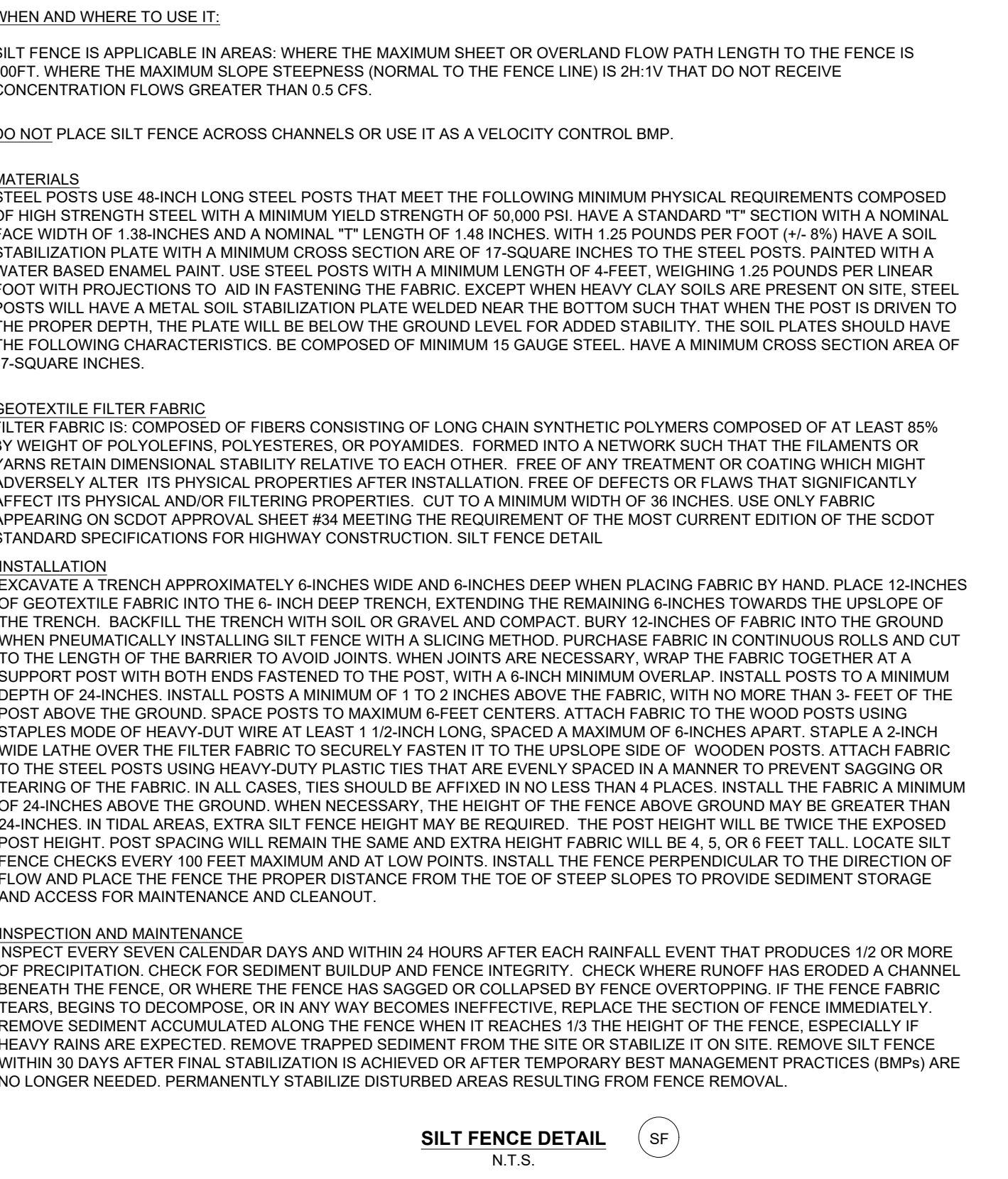
DRAINAGE PLAN

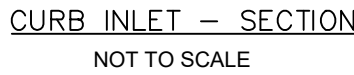
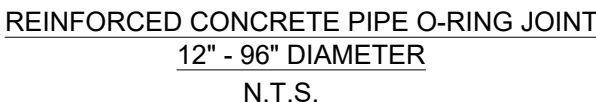
PREPARED FOR: GEORGETOWN COUNTY
GEORGETOWN, SC 29644

Last Saved By: DMAI

NO.	DATE	DESCRIPTION
1	06-21-2019	PER CLIENT'S COMMENTS 06-19-2019
2	07-17-2019	PER CLIENT'S COMMENTS 07-16-2019
3	08-01-2019	PER CLIENT'S COMMENTS 07-31-2019
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PROJECT: 181096
DATE: 7/27/18
SCALE: 1" = 20'
DESIGNED BY: DAT
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SHEET TITLE: DRAINAGE PLAN
C-004





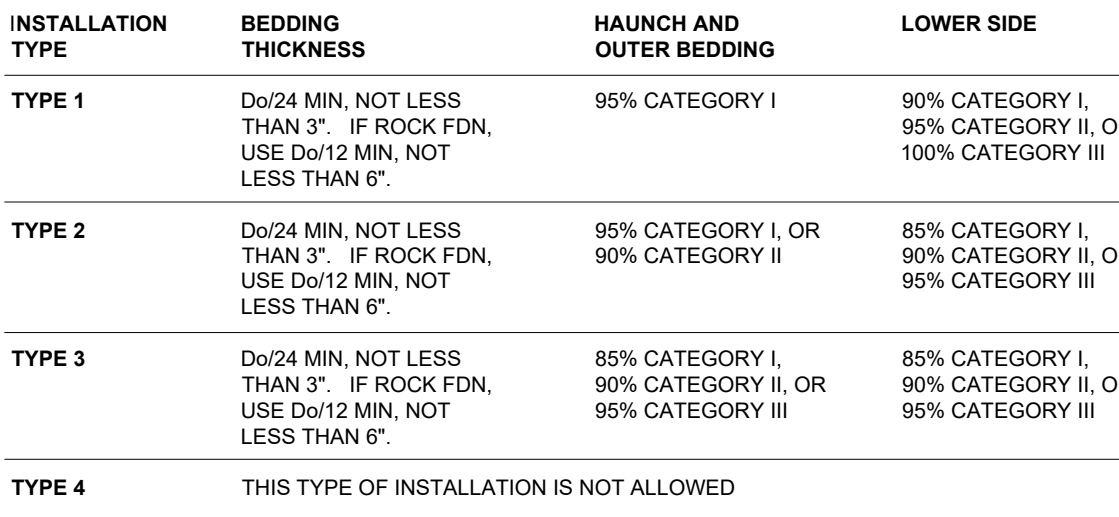
SEE PAVEMENT DETAIL FOR ASPHALT AND BASE REQUIREMENTS



MAX PIPE OUTSIDE DIAMETER=HD-0.5"
TO FIND MAX HOLE DIA. IN SHORT SIDE,
FIND SQUARE BOX WITH SAME H
[ie: 3'x5'x5' BOX \geq 3'x3'x5' = HD=36" IN THE 3' SIDE]

[illegible]

1. THE MINIMUM STEEL REINFORCEMENT REQUIRED FOR ALL BAR SIZES SHALL BE AS SHOWN ON THIS SHEET.
2. ALL LIFTING HOLES OR DEVICES MAY BE PLACED AS NECESSARY. ALL LIFT HOLES SHALL BE REINFORCED TO BRING TO COMPLETION OF THE INSTALLATION. ALL LIFTING METHODS MUST MEET OSHA REGULATIONS.
3. HOOK VERTICAL BARS #8 TO BOTTOM SLAB.
4. STANDARD HOOK #8 FOR #4 BAR AND #2 FOR #0 BAR.
5. USING MANUFACTURED REINFORCING BAR, ANY PORTION OF THE BARS (FULL THICKNESS) MAY BE EXTENDED A MINIMUM OF 2 FEET ABOVE THE TOP OF THE WALL-OUT PIPE TO BRING TO COMPLETION OF THE INSTALLATION. THE WALL-OUT PIPE SHALL MEET ALL DETAILS OF THE DRAWING TO BE USED. THE SHOP DRAWING SUBMITTAL TO THE FIELD SHALL INCLUDE ALL DETAILS OF THE WALL-OUT PIPE TO BE USED. THE WALL-OUT PIPE SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
6. BRIDGE MASONRY OR CLASS 400 CONCRETE SHALL BE USED TO FINISH THE PORTION ABOVE THE TOP OF THE PIPE (2 FEET MAX) TO BRING TO GRADE OR TO COMPLETE AN INLET PIPE STRUCTURE, THE STRUCTURE SHALL BE CONSTRUCTED TO MEET THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
7. PRECAST R/C REINFORCING BARS (#4) MAY BE USED TO BRIDGE THE BOX TO GRADE OR TO COMPLETE AN INLET STRUCTURE. RISERS AND JOINT DETAILS MUST BE DESIGNED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
8. PRECAST R/C DRAINAGE BOX WITH KNOCK-OUT PANEL SHALL NOT BE USED WITH RISERS OR JOINTS UNLESS THE STRUCTURE IS DESIGNED TO BRIDGE THE BOX TO GRADE OR TO COMPLETE AN INLET PIPE STRUCTURE.
9. RISER & INLET STRUCTURE MAY NOT EXCEED 2'-0" OVERALL PIPE TO OVERALL PIPE ELEVATION.
10. GROUT THE FLOW LINE FROM THE BASE TO THE DUTILE PIPE TO MAINTAIN A CONTINUOUS FLOW LINE. THE GROUT SHALL BE PLACED IN ACCORDANCE WITH SECTION 714 OF THE SECDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
11. CUT OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT KNOCK-OUT PANEL TO PROVIDE THE REQUIRED SIZE AND LOCATION. THE KNOCK-OUT PANELS SHALL NOT BE ENTER THROUGH THE KNOCK-OUT PANELS UNLESS THE PIPES MAY NOT ENTER THROUGH THE KNOCK-OUT PANELS.
12. JOINTS SHALL BE THROUGH A FLEXIBLE BUTTER OR BITUMINOUS SEALANT CONFORMING TO THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
13. PRECAST CONCRETE CIRCULAR STRUCTURES (AS SHOWN ON 719-420-00) ARE REQUIRED FOR THE DRAINAGE STRUCTURE UNLESS THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR GREATER THAN THE FLOW LINE ELEVATION OF THE OUTLET PIPE.
14. ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR GREATER THAN 12 FEET.
15. ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR GREATER THAN THE FLOW LINE ELEVATION OF THE OUTLET PIPE.
16. AS REQUIRED BY THE PROJECT PLANS.
17. PAY ITEM. THESE ITEMS WILL BE PAID FOR IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR THE DRAINAGE STRUCTURE UNLESS THE EXTRA DEPTH BOX WILL BE MEASURED AND PAID FOR AS AN INLET STRUCTURE.



TYPICAL RCP STORM PIPE BEDDING

1. INSTALLATION GENERALLY COMPLIES WITH STANDARD INSTALLATIONS DIRECT DESIGN (SIDO) AS DEVELOPED BY THE AMERICAN CONCRETE PIPE ASSOCIATION (ACPA).

2. EXISTING UTILITIES SHALL BE MAINTAINED. ALL ROADWAYS AND BUILDINGS. TYPE 2 INSTALLATION WILL BE UTILIZED OUTSIDE OF ROADWAYS AND BUILDINGS IN AREAS WHERE SETTLEMENT IS AN ISSUE. TYPE 3 INSTALLATION WILL BE UTILIZED IN LOCATIONS WHERE SETTLEMENT IS NOT AN ISSUE. TYPE 4 INSTALLATION IS NOT ALLOWED.

3. THE TRENCH AND BACKFILL SHALL BE MINIMUM CATEGORY 1. REFERS TO CATEGORY 1 SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%.

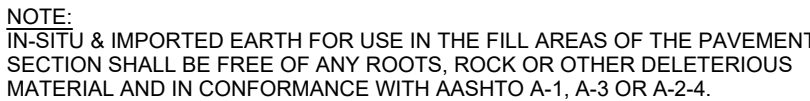
4. THE TRENCH TOP ELEVATION SHALL BE NO LOWER THAN 2' 0" BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN 1' BELOW THE BOTTOM OF THE BASE MATERIAL.

5. SOIL IN BEDDING AND BACKFILL ARE TO BE PROPERLY COMPACTED TO AT LEAST THE SAME COMPACTION AS SPECIFIED FOR THE MAJORITY OF SOIL IN THE BACKFILL ZONE.

6. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH ZONES AND BACKFILL ZONE.

7. FOR TRENCH WALLS THAT ARE WITHIN 10 DEGREES OF VERTICAL, THE COMPACTION OR FIRMNESS OF THE SOIL IN THE TRENCH WALLS AND LOWER SIDE ZONE NEED NOT BE CONSIDERED.

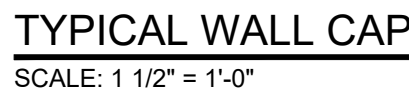
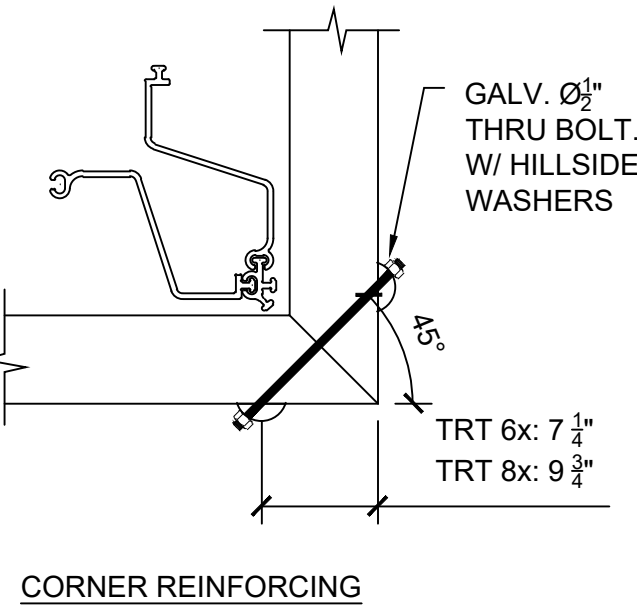
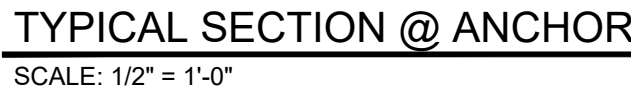
8. FOR TRENCH WALLS THAT ARE NOT WITHIN 10 DEGREES OF VERTICAL, THE COMPACTION OR FIRMNESS OF THE SOIL IN THE TRENCH WALLS AND LOWER SIDE ZONE SHALL BE AT LEAST THE SAME COMPACTION AS SPECIFIED FOR THE SOIL IN THE BACKFILL ZONE.



N.T.S.

REQUIREMENTS



[illegible]

cmilc.com

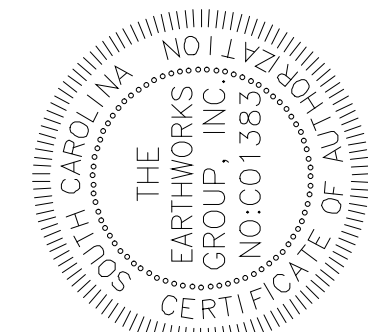
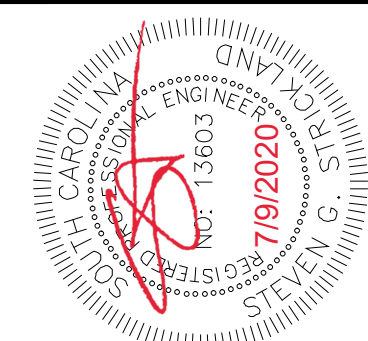
BULKHEAD SHEET DESIGN REFERENCE

SCALE: NONE

EARTHWORKS

 planning and design consultants

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	06-18-2020		DATE
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	06-18-2020		DATE

SPRINGS RESIDENT DRAINAGE OUTFALL

BULKHEAD DETAILS & SECTIONS

PREPARED FOR: GEORGETOWN COUNTY
108 SCREVEN STREET

SUBJECT LOCATION: MURRELLS INLET

GEORGETOWN COUNTY

PROJECT #: 181096

SCALE: AS NOTED

DESIGNED BY: SGS

DRAWN BY: DAT

CHECKED BY: SGS

C-007

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