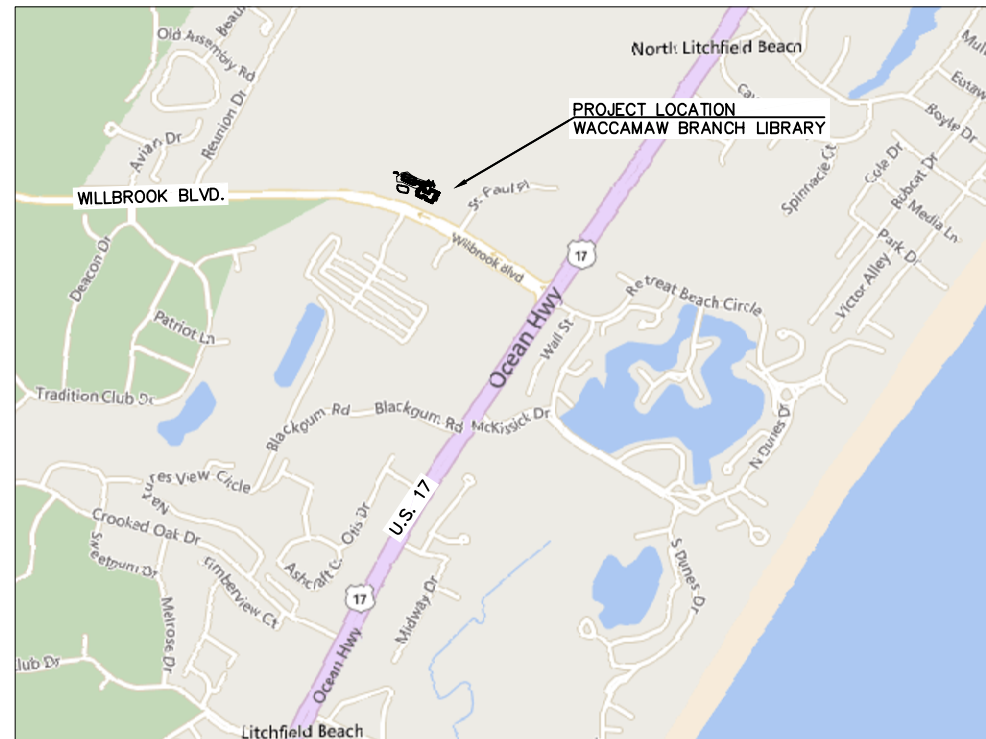




DESIGN DRAWINGS

WACCAMAW BRANCH LIBRARY PARKING LOT EXPANSION



LOCATION MAP

Index of Sheets			
Sheet #	Sheet Title	Rev #	Rev Date
C-00	COVER SHEET	2	9/13/2019
C-01	GENERAL NOTES	2	9/13/2019
C-02	GENERAL LEGENDS	2	9/13/2019
C-03	EXISTING CONDITIONS AND DEMOLITION PLAN	2	9/13/2019
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C-07	SEDIMENT AND EROSION CONTROL PLAN	2	9/13/2019
C-08	SEDIMENT AND EROSION CONTROL DETAILS	2	9/13/2019
C-09	PAVEMENT AND OUTLET STRUCTURE DETAILS	2	9/13/2019
C-10	SCDOT DETAILS (CURB AND SIDEWALK)	2	9/13/2019
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C-12	SCDOT DETAILS	2	9/13/2019
C-13	SCDOT DETAILS	2	9/13/2019
L-01	LANDSCAPE PLAN		

PROJECT CONTACTS

<p>GEORGETOWN COUNTY DEPT: PUBLIC SERVICES DIRECTOR</p> <p>CONTACT: RAY C. FUNNIE ADDRESS: 108 SCREVEN STREET GEORGETOWN, SC 29440 Phone: (843) 545-3325</p>
<p>DEPT: STORMWATER ADMINISTRATOR</p> <p>CONTACT: TRACY D. JONES, P.E. ADDRESS: 129 SCREVEN STREET GEORGETOWN, SC 29442 PHONE: (843) 545-3524</p>
<p>ENGINEERING AND DEPT: CAPITAL PROJECTS MANAGER</p> <p>CONTACT: ART BAKER, PE ADDRESS: 1918 CHURCH STREET GEORGETOWN, SC 29440 PHONE: (843) 545-3255</p>

<p>Surveyor</p> <p>NAME: PLS, INC CONTACT: GREG CUNNINGHAM, PLS</p>
--

<p>UTILITY COMPANIES</p> <p>NAME: GCWSD CONTACT: TOMMY KENNEDY ADDRESS: PO BOX 2730 PAWLEYS ISLAND, SC 29585 PHONE: (843) 237-9719</p> <p>Name: SANTEE ELECTRIC COOP. PHONE: (843) 546-4521</p>
--

<p>NAME: TIME WARNER CABLE CONTACT: DAN HELMICK PHONE: (843) 913-7994</p> <p>NAME: FRONTIER COMMUNICATION</p> <p>CONTACT: ROBERT HELMS PHONE: (843) 655-7994</p>
--

CAUTION

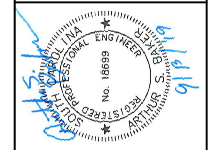


THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.
Call before you dig.

GEORGETOWN COUNTY, SOUTH CAROLINA



DESIGN DRAWINGS	
STORMWATER REVISION 1	
NO. 1	4/17/2019
NO. 2	9/13/2019

PROJECT:
WACCAMAW LIBRARY-PARKING LOT EXPANSION
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE:	N.T.S.
DESIGNED BY:	ASB
DRAWN BY:	MPM
DATE:	9/13/2019

COVER SHEET
SHEET NO: C-00

GENERAL NOTES

SCDHEC STANDARD NOTES

GRASSING NOTES

DEMOLITION AND CLEARING NOTES

SCDOT STANDARD NOTES

SCDOT STANDARD NOTES (CONT.):

- 1. TOPOGRAPHIC AND BOUNDARY SURVEY BY GTC PUBLIC WORKS.
2. 2208 BROWN FERRY ROAD, GEORGETOWN, SC 29424.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT ELEVATION OF ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION HAS BEGUN...

- 1. IF NECESSARY, SLOPES, WHICH EXCEED 6% (6) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT ELEVATION OF ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION HAS BEGUN...
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY SITE VISITS AND INSPECTIONS TO FAMILIARIZE HIMSELF WITH THE PROJECT AND MAKE ANY INVESTIGATIONS WHICH ARE APPROPRIATE TO CONFIRM THE SOURCE/DEPTH INFORMATION...

- 1. AREAS TO BE GRASSING SHALL BE DEFINED AS ALL AREAS OF SITE WITHIN THE GRADING LIMITS AND NOT OCCUPIED BY PAVING, CRUSHED STONE SURFACING OR STRUCTURES.
2. LIME SHALL BE AGRICULTURAL GRADE, GROUND Limestone, GROUND Limestone AND/OR CRUSHED STONE SURFACING.
3. FERTILIZER SHALL BE GRADE 10-10-10 COMPLETE FERTILIZER OF UNIFORM COMPOSITION...

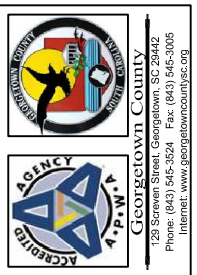
- 1. THE CONTRACTOR SHALL INCLUDE IN HIS BID, CLEARING AND GRUBBING: THE LANDSCAPE ARCHITECT'S AND/OR ENGINEER'S LISTED AREAS SHALL BE CLEARED UNDER THIS CONTRACT AND SHALL DESIGNATE TREES TO REMAIN WITHIN THE AREAS TO BE CLEARED.
2. OWNER'S REPRESENTATIVE, GOVERNING AGENCIES AND UTILITY COMPANIES SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY DEMOLITION OPERATIONS.
3. CONTRACTOR SHALL COORDINATE WITH GOVERNING AGENCIES AND ALL UTILITY COMPANIES TO COORDINATE TRING OF AND RESPONSIBILITY OF DEMOLITION OPERATIONS INCLUDING ANY REQUIRED INSPECTIONS...

- 1. THERE CAN BE NO WORK PERFORMED IN THE SCOT R/W BEFORE AN ENCROACHMENT PERMIT HAS BEEN ISSUED AND A PRECONSTRUCTION MEETING HAS BEEN HELD.
2. ANY WORK PERFORMED BEFORE THE PRECONSTRUCTION MEETING WILL HAVE TAKEN PLACE WITHOUT SCOT KNOWLEDGE, OVERSIGHT, AND CONSENT AND SHALL BE SUBJECT TO REMOVAL BY THE APPLICANT AND/OR AT THE APPLICANT'S EXPENSE.
3. ANY REVISIONS TO THIS APPROVED PLAN SET MUST HAVE PRIOR, WRITTEN APPROVAL FROM SCOT OR BE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE.
4. THE CONSTRUCTION ENTRANCE MUST BE ESTABLISHED AT THE LOCATION DESIGNATED IN THIS PLAN SET...

- 27. IF REQUIRED UNDER THE APPROVED SCOT ENCROACHMENT PERMIT, A THIRD PARTY TESTER SHALL BE REQUIRED AT THE APPLICANT'S EXPENSE TO PERFORM COMPACTION ANALYSIS AND WITNESS A PASSING PROOF ROLL ON ALL SUB-GRADE, BASE, AND ASPHALT.
28. AN INSPECTION DATE SHALL BE SET UP IN ADVANCE FOR WHICH THE INSPECTOR WILL COME OUT AND INSPECT THE SIDEWALK FORMS BEFORE POURING CONCRETE.
29. ADA MATS (RAISED DETECTABLE WARNING PADS) SHALL BE INSTALLED AS WET INSETS AND AT ROADWAY INTERSECTIONS ONLY.
30. NO UNVALUED OR OTHER APPURTENANCES IN ROADWAY ASPHALT, WITHIN 5 FEET OF EDGE OF PAVEMENT, OR WITHIN DITCH LINE OR SWALL LINE...
31. PROPOSED UTILITY INSTALLATION LOCATED IN SHOULDER AREA SHALL HAVE A MINIMUM COVER OF 42" ACCORDING TO FIGURE 6 OF APPENDIX B...

WATER & SEWER UTILITY NOTES

- 1. THE CONTRACTOR SHALL CONSTRUCT THE GRAVITY SEWER LATERAL, GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS.
2. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION.
3. THE CONTRACTOR SHALL RESTORE ALL VEGETATION IN KIND.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATION...
12. DRIVEWAY RADI SHALL BE 30 FEET, (UNLESS NOTED OTHERWISE ON THE SCOT APPROVED PLANS).
13. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH REFLECTIVE BEADS PER SECTION 627 OF THE SCOT STANDARD SPECIFICATIONS.
14. ALL PERMANENT SIGNAGE SHALL BE INSTALLED ON BREAKAWAY POSTS PER SCOT STANDARD DRAWING 651-110-00 AND SHALL HAVE A 7 VERTICAL FOOT CLEARANCE FROM THE GROUND TO THE BOTTOM OF THE SIGN.
15. DRIVEWAYS SHALL BE CONSTRUCTED TO HAVE A MINIMUM OF A 2 FOOT GRASS SHOULDER ON EACH SIDE OF THE DRIVEWAY THROAT.
16. DITCH SLOPES SHALL BE NO STEEPER THAN 3H:1V.
17. WATER LINES AND FORCE MAIN SHALL BE PVC DR 26, 3000 CLASS 100, SANITARY SEWER BETWEEN DEPTHS OF THREE (3) TO TWELVE (12) FEET SHALL BE SDR-35, AND DR 18 FOR DEPTHS GREATER THAN TWELVE (12) UNLESS OTHERWISE NOTED ON PLANS.
18. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
19. A TREN FOOT (10) MINIMUM HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER MAINS AND STORM DRAIN, SANITARY SEWER AND FORCE MAIN LINES.
20. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED IN AREAS TO RECEIVE PAVING SHALL BE COVERED AND COMPACTED IN EIGHT (8) 1/4" LIFTS IN ACCORDANCE WITH THE DETAILS AND OR SPECIFICATIONS.
21. ALL WATER MAINS TO HAVE A MINIMUM COVER OF 36" UNLESS OTHERWISE NOTED. ALL WATER SYSTEM FITTINGS SHALL BE MEGALUG RESTRAINED.
22. NO VEGETATION INSTALLED ON PRIVATE PROPERTY SHALL BLOCK THE SCOT SIGHT TRIANGLES OR SIGHT DISTANCES FOR MOTORISTS INGRESS OR EGRESS FROM APPEARED DRIVEWAYS AND/OR ROADWAY INTERSECTIONS. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR KEEPING OFFSITE LANDSCAPINGS PROPERLY MAINTAINED TO IMPROVE ALL SIGHT DISTANCES.
23. THE DEPARTMENT SHALL NOT BE RESPONSIBLE FOR DAMAGE TO ANY UTILITY STRUCTURES LOCATED WITHIN THE RIGHT-OF-WAY AS A RESULT OF ROUTINE HIGHWAY MAINTENANCE OPERATIONS.
24. APPLICANT IS RESPONSIBLE FOR THE INSTALLATION AND SECURING OF ANY VALVE OR MANHOLE RISERS AS NEEDED.
25. THE DEPARTMENT SHALL BE HELD HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES AND LOSSES ASSOCIATED WITH WORK AS APPROVED UNDER THIS PERMIT APPLICATION.
26. APPLICANT IS RESPONSIBLE FOR THE REPAIR OF ANY TRAFFIC SIGNAL LOPS/WIRES/HEAD/CABINETS IF DAMAGED DUE TO THIS INSTALLATION. ALL WORK SHALL BE APPROVED UNDER THE DIRECTION OF THE SCOT DISTRICT SIGNAL SHOP AND PERFORMED BY A SCOT APPROVED SIGNAL CONTRACTOR.



DESIGN DRAWINGS STORMWATER REVISION 1
NO. 4-17-2019
NO. 2-9-13-2019

WACAMAW LIBRARY-PARKING LOT EXPANSION
GEORGETOWN COUNTY, SOUTH CAROLINA
SCALE: H.T.S.
DESIGNED BY: ASB
DRAWN BY: MPM
DATE: 9/13/2019
SHEET NO: C-01

TEMPORARY SEEDING

Table with 5 columns: SPECIES, RATES PER ACRE, PLANTING DATES, REMARKS. Rows include BROWN TOP MILLET, RYEGRASS (ALONE), WHEAT (ALONE), and DATS (ALONE).

NOTE: USE 10-10-10 FERTILIZER FOR TEMPORARY GRASSINGS AT 500 LBS/AC. STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.

PERMANENT SEEDING

Table with 5 columns: SPECIES, RATES PER ACRE, PLANTING DATES, REMARKS. Rows include ANNUAL RYE GRASS, COMMON BERMUDA GRASS (UNMULCHED), and TALL FESCUE.

NOTE: USE 10-10-10 FERTILIZER FOR PERMANENT GRASSINGS AT 1000 LBS/AC. STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.

DHEC CONSTRUCTION SEQUENCE

- ITEMS MUST OCCUR IN THE ORDER LISTED; ITEMS CANNOT OCCUR CONCURRENTLY UNLESS SPECIFICALLY NOTED.
1. PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NONLINEAR)
2. NOTIFY DHEC AND REGIONAL OFFICE OR OCRM OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
3. INSTALLATION OF CONSTRUCTION ENTRANCE(S).
4. CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.

STORM DRAINAGE NOTES:

- 1. LOCATIONS AND TOP ELEVATIONS OF INLETS AND STRUCTURES WILL BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE OTHERWISE INDICATED.
2. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN BASE MATERIALS.
3. MAINTENANCE RESPONSIBILITY OF ALL STORM DRAINAGE PIPING AND STRUCTURES SHALL AS FOLLOWS:
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS CONSTRUCTED RECORD DRAWINGS PREPARED BY A SOUTH CAROLINA REGISTERED LAND SURVEYOR OF THE STORM DRAINAGE SYSTEM, DETALLED OUTFALL STRUCTURE DATA WHICH MEET ALL APPLICABLE DHECCORM AND GEORGETOWN COUNTY REQUIREMENTS.

PROJECT:

NOTES

SITE LAYOUT LEGEND

DESCRIPTION	EXISTING	PROPOSED
BUILDING		
ASPHALT PAVEMENT		
CONCRETE PAVEMENT		
STONE BASE		
CONCRETE SIDEWALK		
CUT AND PATCH		
CENTERLINE		
LIMITS OF DISTURBANCE (LOD)		
CURB & GUTTER		
FENCE (AS INDICATED)		
RIGHT-OF-WAY LINE		
SIGN (POST MOUNTED)		
TRAFFIC FLOW ARROW		
EXISTING TREE/PROPOSED TREE		
TREE TO BE REMOVED		

UTILITIES LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER		
WATER LINE W/SIZE		
UNDERGROUND ELECTRIC		
CLEANOUT		
FIRE HYDRANT ASSEMBLY		
FORCE MAIN W/SIZE		
GAS LINE		
GATE VALVE & BOX		
HOSE BIBB		
OVERHEAD WIRE		
FIRE DEPT. CONNECTION		
SANITARY SEWER		
TAPPING SLEEVE & VALVE		
TELEPHONE		
TELEPHONE LINE		
WATER METER		
UTILITY POLE		

SEDIMENT AND EROSION CONTROL LEGEND

SYMBOL	PRACTICE	DESCRIPTION
		TYPE - A FILTER FABRIC INLET PROTECTION A TEMPORARY SEDIMENT BARRIER LAID AROUND A STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
		TYPE - A SEDIMENT TUBE INLET PROTECTION USE SEDIMENT TUBE INLET PROTECTION FILTERS THAT HAVE A MINIMUM HEIGHT OR DIAMETER OF 18-24 INCHES PLACED AROUND THE INLET STRUCTURE STAKED IN PLACE OR DANDY BAGS.
		OUTLET PROTECTION RIP RAP CHANNEL / BANK PLACED BELOW DRAINAGE OUTLETS TO REDUCE THE VELOCITY OF FLOW, EROSION, AND STABILIZE GRADES DOWNSTREAM OF OUTLET STRUCTURES.
		CONSTRUCTION ENTRANCE A STONE STABILIZED PAD LOCATED AT ANY POINT THAT TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING LOT WHICH WILL REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE.
		SILT FENCE A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF.
		STONE CHECK DAM A TEMPORARY STONE BARRIER CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW USED TO REDUCE VELOCITY, FILTER SEDIMENT, AND STABILIZE GRADE.
		TEMPORARY DISTURBED AREA STABILIZATION ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDING ON DISTURBED AREAS.
		PERMANENT SEEDING DISTURBED AREA STABILIZATION ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
		CONCRETE WASHOUT AREA TEMPORARY ONSITE CONTAINMENT FOR CONCRETE TRUCKS TO WASHOUT PRIOR TO LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR MAY RELOCATE THE WASHOUT AREA PENDING SITE ACTIVITIES. THE SWPPP PERMIT BOX IS TO LOCATED ADJACENT TO WASHOUT AREA.

DRAINAGE LEGEND

DESCRIPTION	EXISTING	PROPOSED
SPOT ELEVATIONS	28.75	
DRAINAGE PIPE		
CATCH BASIN		
FINISHED GRADE		
DRAINAGE FLOW ARROW		
DRAINAGE BASIN DIVIDE		
SOIL BORING LOCATION		
STORM DRAIN JUNCTION BOX		
CURB INLET		
DROP INLET		
CONTOUR LINE		
SWALE		
HEADWALL		

NOTES:

- PIPE LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- VERTICAL ELEVATIONS ARE BASED UPON ASSUME DATUM, THE TBM IS LOCATED AT THE EXISTING CATCH BASIN WITH TOP ELEVATION 16.1.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDED THE COUNTY WITH A STORMWATER AS-BUILT RECORD DRAWING SIGNED AND SEALED BY A LICENSED LAND SURVEYOR. THE SURVEY SHOULD SHOW GRADES, CONTOURS, AND DEPTHS FOR ALL STRUCTURES, PONDS AND SHOULD INCLUDE THE ELEVATIONS AND DIMENSIONS OF ALL OUTLET STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPES, ORIFICES, RISERS, WEIRS AND EMERGENCY SPILLWAYS. THE SURVEY SHOULD INCLUDE ALL OF THE STORMWATER IMPROVEMENTS INSTALLED BY THE CONTRACTOR INDICATING THEIR SIZES AND MATERIAL.
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE DROP INLET IN ACCORDANCE WITH SCDOT STANDARD DRAWING NO. 719-105-01, 02 AS SHOWN ON SHEET C-8.



DESIGN DRAWINGS	
STORMWATER REVISION 1	
NO. 1	4/17/2019
NO. 2	9/13/2019
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

WACCAMAW LIBRARY-PARKING LOT EXPANSION
GEORGETOWN COUNTY, SOUTH CAROLINA

PROJECT:

SCALE: N.T.S.

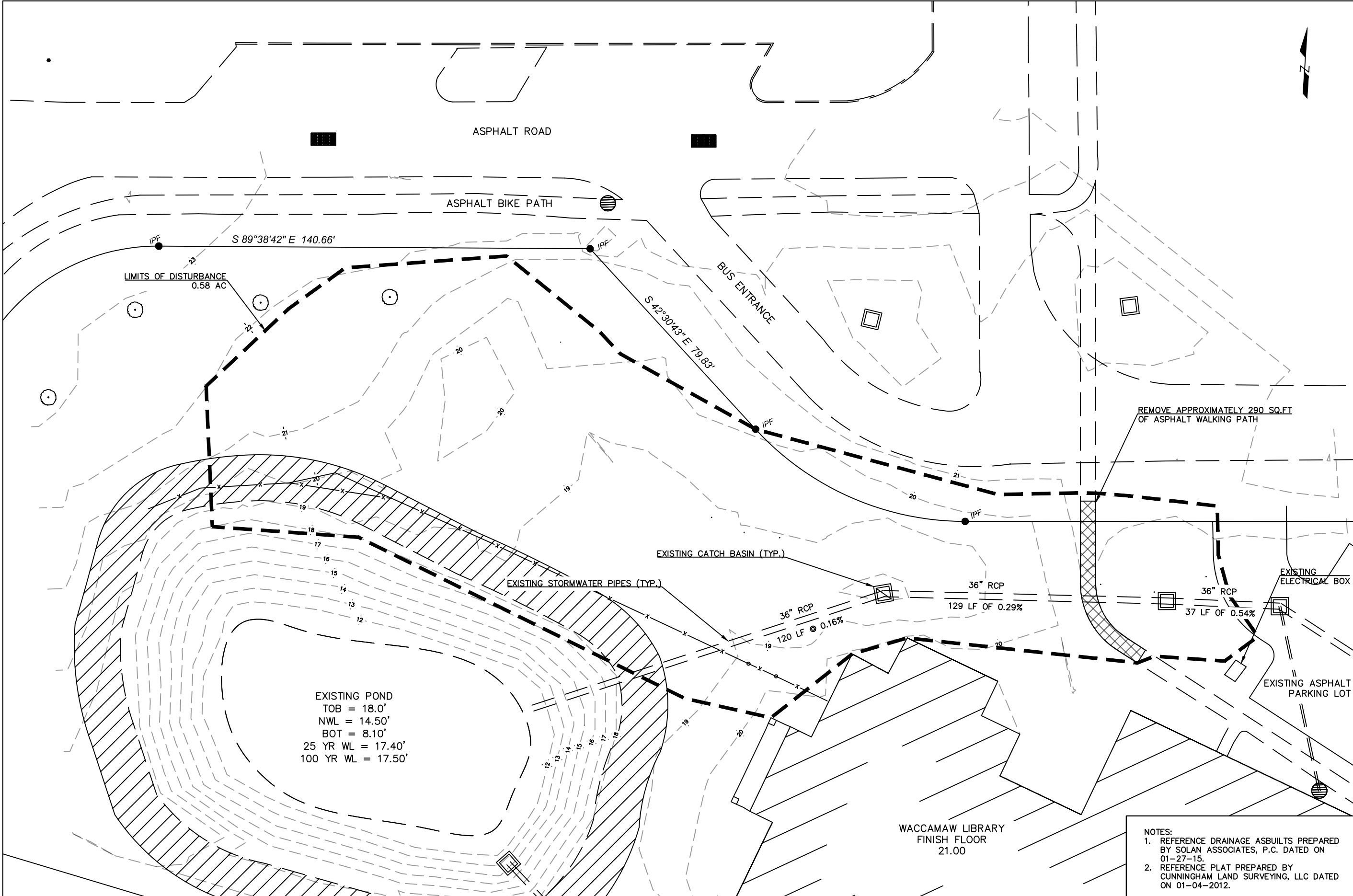
DESIGNED BY: ASB

DRAWN BY: MPM

DATE: 9/13/2019

GENERAL LEGEND

SHEET NO: C-02



DESIGN DRAWINGS	
STORMWATER REVISION 1	
No. 1	4/17/2019
No. 2	9/13/2019

WACCAMAW LIBRARY-PARKING LOT EXPANSION
 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: 1:30
 DESIGNED BY: ASB
 DRAWN BY: MPM
 DATE: 9/13/2019

EXISTING CONDITIONS AND DEMOLITION PLAN
 SHEET NO: C-03

- NOTES:
1. REFERENCE DRAINAGE ASBUILTS PREPARED BY SOLAN ASSOCIATES, P.C. DATED ON 01-27-15.
 2. REFERENCE PLAT PREPARED BY CUNNINGHAM LAND SURVEYING, LLC DATED ON 01-04-2012.

ASPHALT ROAD

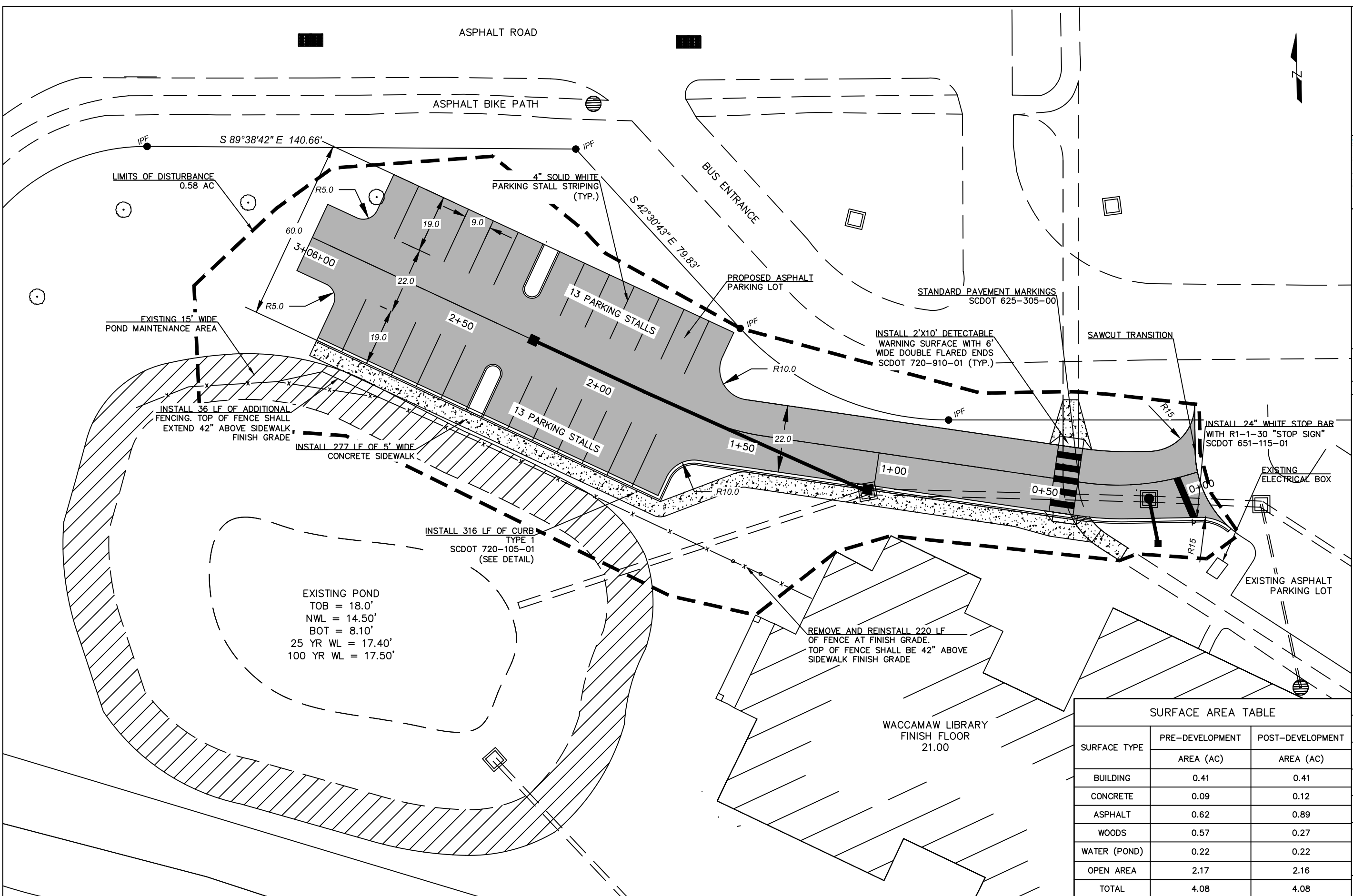
ASPHALT BIKE PATH



DESIGN DRAWINGS	
STORMWATER REVISION 1	
No. 1: 4/17/2019	
No. 2: 9/13/2019	

WACCAMAW LIBRARY-PARKING LOT EXPANSION
 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE:	1:30
DESIGNED BY:	ASB
DRAWN BY:	MPM
DATE:	9/13/2019
SITE PLAN	
SHEET NO:	C-04



SURFACE TYPE	PRE-DEVELOPMENT	POST-DEVELOPMENT
	AREA (AC)	AREA (AC)
BUILDING	0.41	0.41
CONCRETE	0.09	0.12
ASPHALT	0.62	0.89
WOODS	0.57	0.27
WATER (POND)	0.22	0.22
OPEN AREA	2.17	2.16
TOTAL	4.08	4.08

WACCAMAW LIBRARY
 FINISH FLOOR
 21.00

ASPHALT ROAD

ASPHALT BIKE PATH

S 89°38'42" E 140.66'

24"x24" DROP INLET
TG EL.: 19.20'
INV.: 16.70'

BUS ENTRANCE

S 42°30'43" E 79.83'

120 LF OF 15" RCP
@ 1.41% GRADE
(O-RING M315)

EXISTING DROP INLET
TO BE CONVERTED
TO CURB INLET (TYPE 16)
(CONTRACTOR TO PROVIDE DETAIL)
PROPOSED THROAT: 18.30'
INV IN: 15.00'
EX. INV IN: 9.09'
EX. INV OUT: 9.03'
EX. SUMP: 8.47'

EXISTING DROP INLET
TO BE CONVERTED
TO MANHOLE WITH CAST-IN-
RING AND COVER TOP.
TOP EL. = 20.30'
PROPOSED INV: 17.85'
EXISTING INV IN: 9.34'
EXISTING INV OUT: 9.46'
SUMP: 8.77'

LIMITS OF DISTURBANCE
0.58 AC

EXISTING POND
TOB = 18.0'
NWL = 14.50'
BOT = 8.10'
25 YR WL = 17.40'
100 YR WL = 17.50'

INV. = 8.84'

OUTLET STRUCTURE TO BE
MODIFIED PER THOMAS AND HUTTON
DESIGN (SEE DETAIL)

EMERGENCY EARTHEN SPILLWAY
TO BE INSTALLED PER THOMAS
AND HUTTON DESIGN

WACCAMAW LIBRARY
FINISH FLOOR
21.00

15 LF OF 12" ADS PIPE
@ 1.0% GRADE

ADS YARD INLET
NYOPLAST 15"x15" H-20
TG EL.: 20.35'
INV IN: 18.0'

EXISTING ELECTRICAL BOX

EXISTING ASPHALT
PARKING LOT



DESIGN DRAWINGS	NO. 1: 4/17/2019
STORMWATER REVISION 1	NO. 2: 9/13/2019

WACCAMAW LIBRARY-PARKING LOT EXPANSION
GEORGETOWN COUNTY, SOUTH CAROLINA

PROJECT:

SCALE: 1:30

DESIGNED BY: ASB

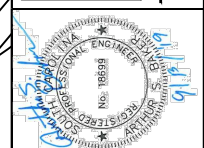
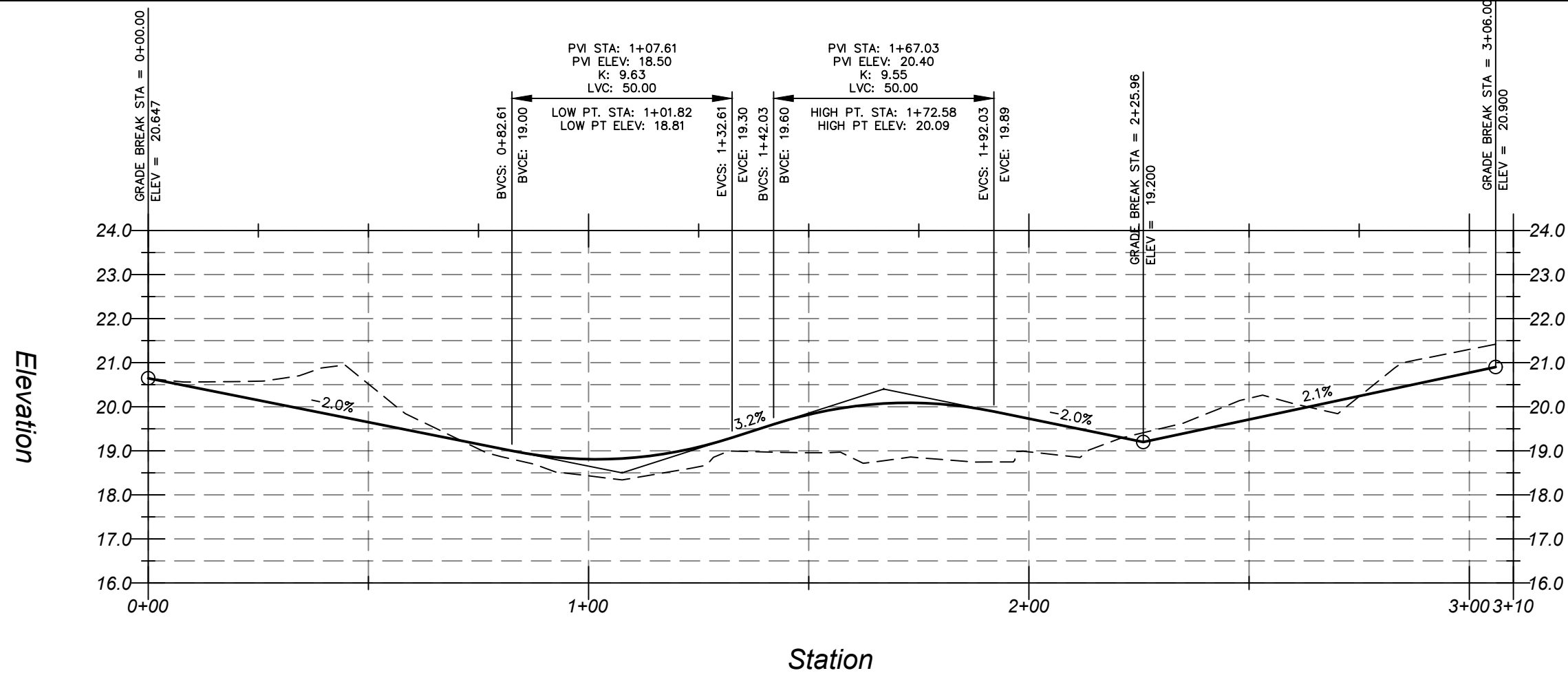
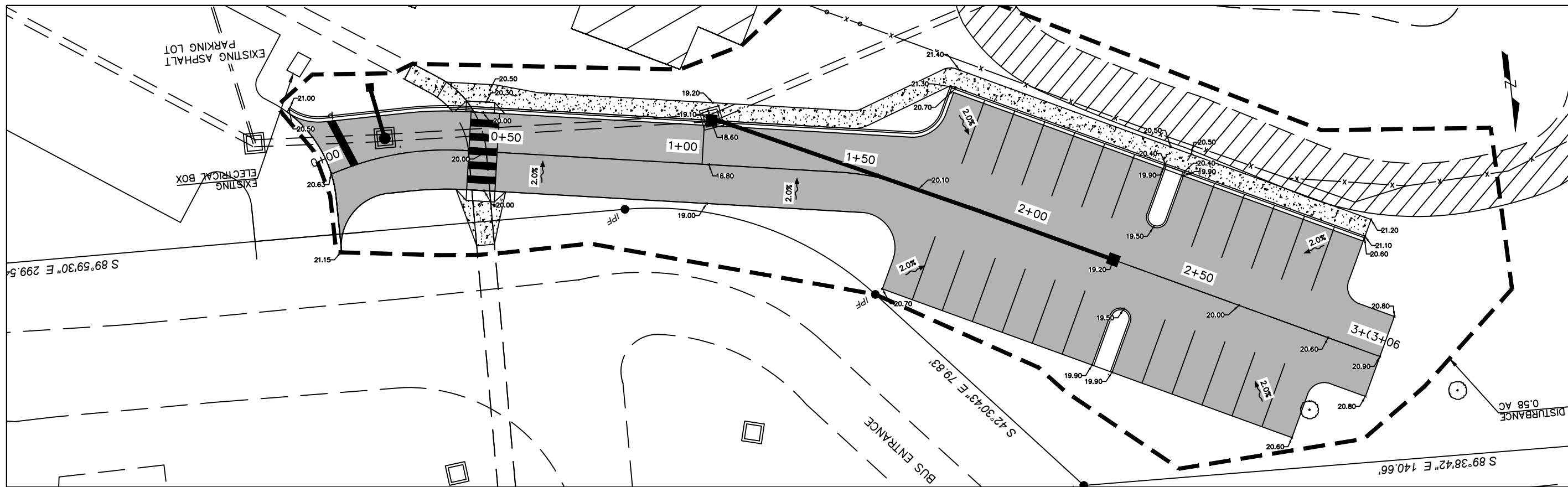
DRAWN BY: MPM

DATE: 9/13/2019

GRADING AND DRAINAGE
PLAN

SHEET NO: C-05

Georgetown County
129 Sawwen Street, Georgetown, SC 29442
Phone: (843) 545-3524 Fax: (843) 545-3005
Internet: www.georgetowncountysc.org



DESIGN DRAWINGS	NO. 1: 4/17/2019
STORMWATER REVISION 1	NO. 2: 9/13/2019

WACCAMAW LIBRARY-PARKING LOT EXPANSION
 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: H:1:30
 V:1:3

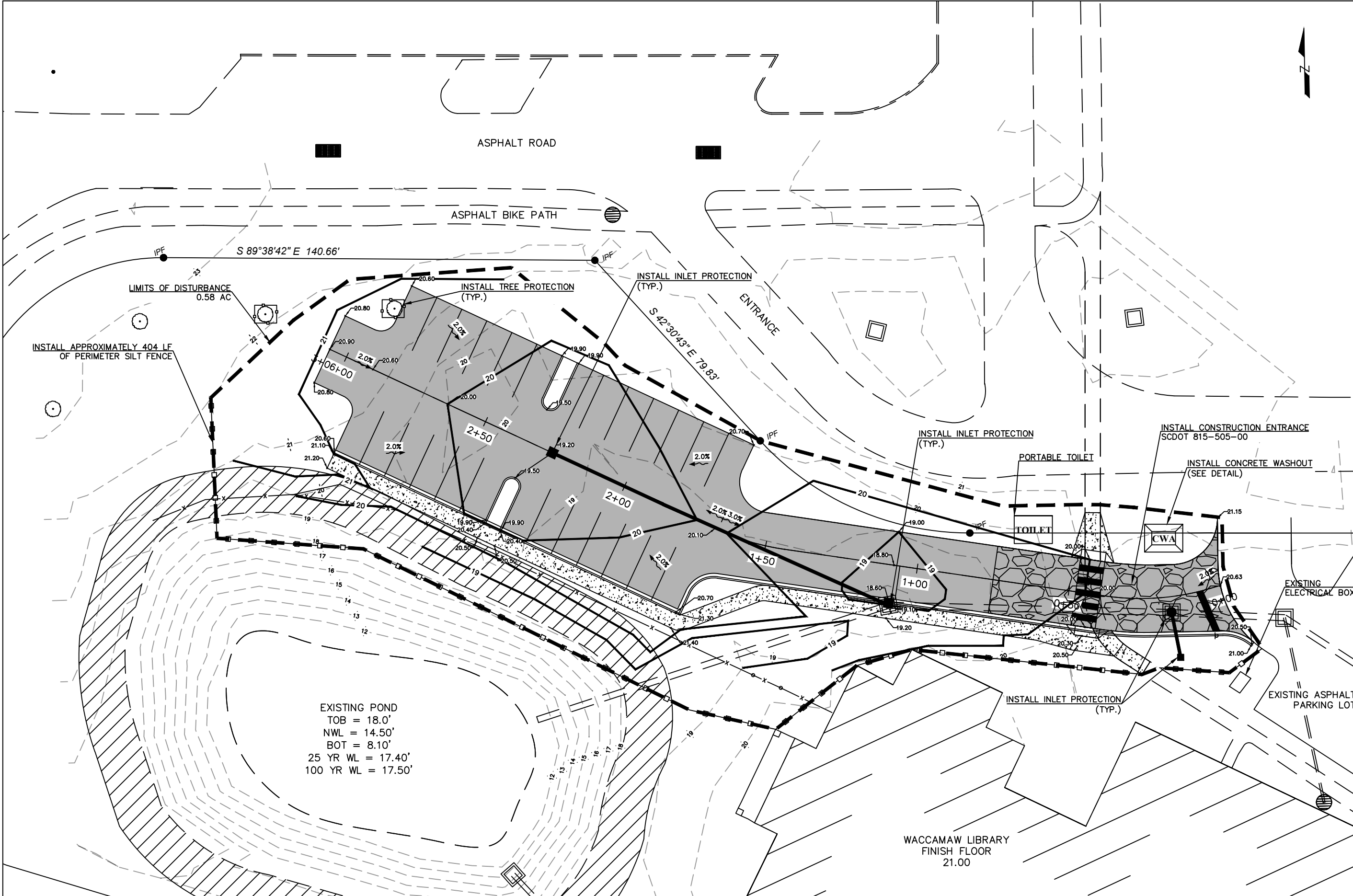
DESIGNED BY: ASB

DRAWN BY: MPM

DATE: 9/13/2019

DRIVEWAY PROFILE

SHEET NO: C-06



DESIGN DRAWINGS	
STORMWATER REVISION 1	
No. 1: 4/17/2019	
No. 2: 9/13/2019	

WACCAMAW LIBRARY-PARKING LOT EXPANSION
 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: 1:30

DESIGNED BY: ASB

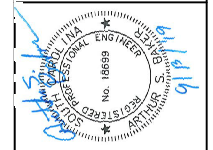
DRAWN BY: MPM

DATE: 9/13/2019

SEDIMENT AND EROSION CONTROL PLAN

SHEET NO: C-07

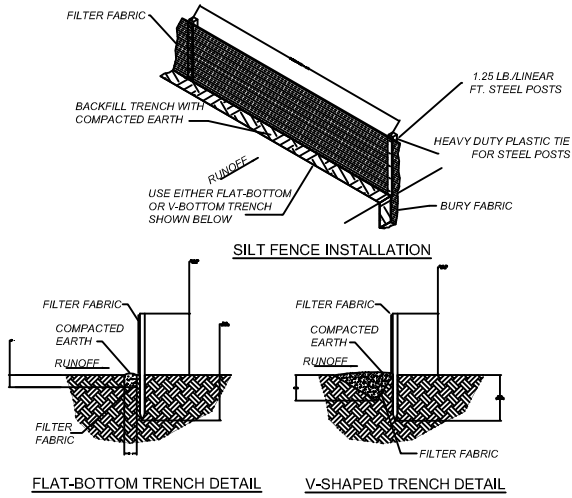
Georgetown County
 129 Sawwen Street, Georgetown, SC 29442
 Phone: (843) 545-3524 Fax: (843) 545-3005
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DESIGN DRAWINGS
STORMWATER REVISION 1
NO. 1 4/17/2019
NO. 2 9/13/2019
NO. 3
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NO. 10
NO. 11
NO. 12
NO. 13
NO. 14
NO. 15
NO. 16
NO. 17
NO. 18
NO. 19
NO. 20

WACCAMAW LIBRARY-PARKING LOT EXPANSION
 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE:	N.T.S.
DESIGNED BY:	ASB
DRAWN BY:	MPM
DATE:	9/13/2019
SEDIMENT AND EROSION CONTROL DETAILS	
SHEET NO:	C-08



South Carolina Department of Health and Environmental Control

STANDARD SILT FENCE DETAIL

SC-03 Page 1, 2 & 3 of 3

SILT FENCE DETAIL

WHEN AND WHERE TO USE IT
 SILT FENCE IS APPLICABLE IN AREAS:

WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100- FEET, WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V, THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

MATERIALS

STEEL POSTS
 USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS: COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI. HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES. WEIGH 1.25 POUNDS PER FOOT (± 8%).

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4- FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY. THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS: BE COMPOSED OF MINIMUM 15 GAUGE STEEL. HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

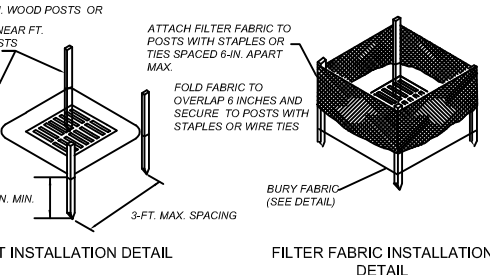
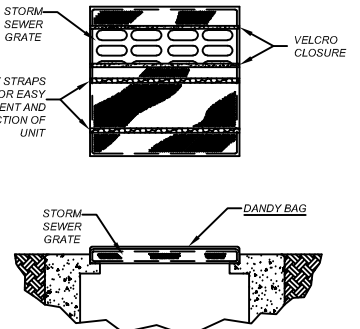
GEOTEXTILE FILTER FABRIC
 FILTER FABRIC IS COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES. FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RELAY DIMENSIONAL STABILITY RELATIVE TO EACH OTHER. FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION. FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES. CUT TO A MINIMUM WIDTH OF 36 INCHES.

USE ONLY FABRIC APPEARING ON SCODT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCODT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

INSTALLATION
 EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC WITH NO MORE THAN 3- FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6- FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1 1/2-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4- 5-, OR 6- FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

INSPECTION AND MAINTENANCE
 INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/4-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.

NOTE: ALL DANDY BAGS CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS



South Carolina Department of Health and Environmental Control

TYPE A - FILTER FABRIC INLET PROTECTION

SC-07 Page 1 & 2 of 2

FILTER FABRIC INLET PROTECTION

MATERIALS:
 USE FILTER FABRIC THAT CONFORMS TO SCODT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). REFER TO THE SILT FENCE GEOTEXTILE FABRICS APPROVAL SHEET #34.

USE STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS: BE COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI. HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES. WEIGHT 1.25 POUNDS PER FOOT (± 8%). BE PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

ATTACH FABRIC TO METAL POSTS WITH HEAVY-DUTY PLASTIC TIES.

INSTALLATION:
 EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

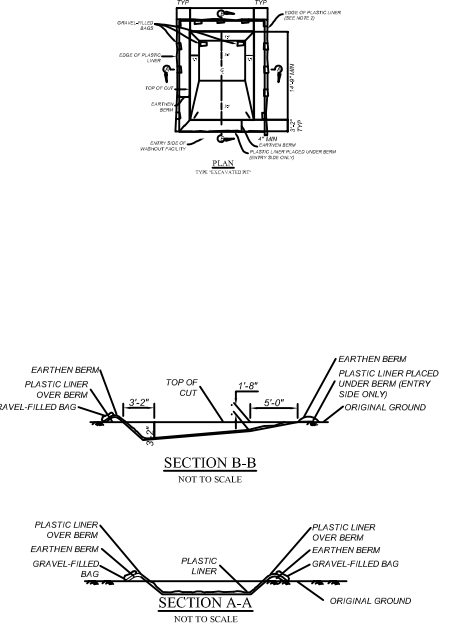
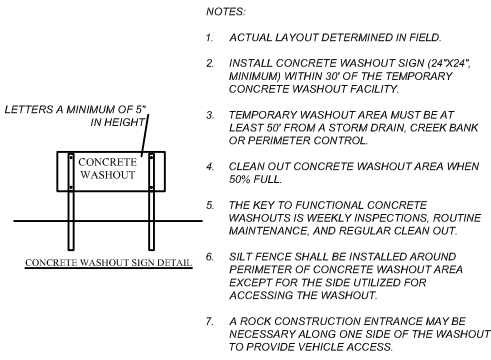
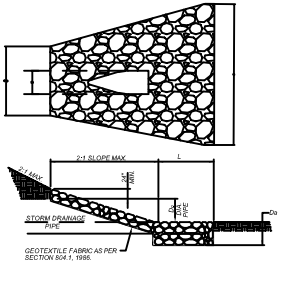
USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (± 8%). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3- FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.

ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

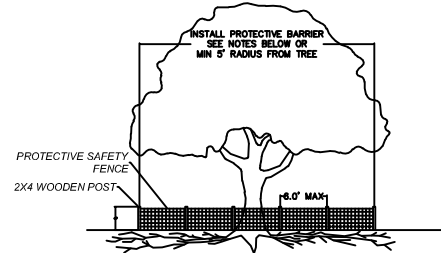
INSPECTION AND MAINTENANCE:
 INSPECTIONS SHOULD BE MADE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/4-INCHES OR MORE OF RAIN. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT IF A SUMP IS USED. SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.



EXCAVATED PIT CONCRETE WASHOUT DETAIL

SCALE: N.T.S.



NOTES:

1. INSTALL PROTECTIVE BARRIERS AROUND TREES TO REMAIN TO BE A MINIMUM OF FEET OF THE DBH OF THE TREE IN INCHES SUCH AS A 24" DBH SHALL REQUIRE A 24" DIA BARRIER.
2. THE BARRIERS SHALL BE A MINIMUM OF 4 FT HIGH USING A POST AND RAIL SYSTEM CONSISTING OF 2X4 POST AND 1X4 RAILS

STABILIZED CONSTRUCTION ENTRANCE

WHEN AND WHERE TO USE IT
 STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

IMPORTANT CONSIDERATIONS
 IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDHEC AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.

CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

INSTALLATION:
 REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN. INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

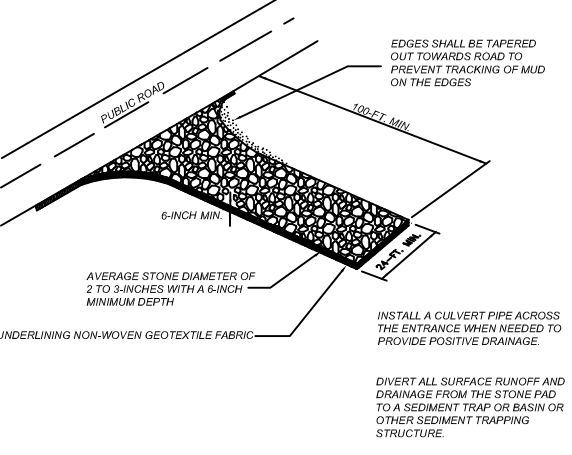
THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24- FEET WIDE BY 100- FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS. THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:
 INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/4-INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

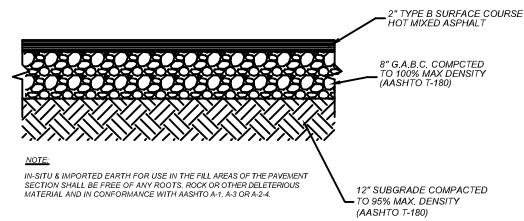
IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

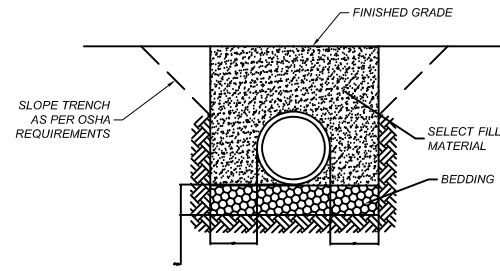


STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.



STANDARD ASPHALT PAVEMENT SECTION
SCALE: N.T.S.

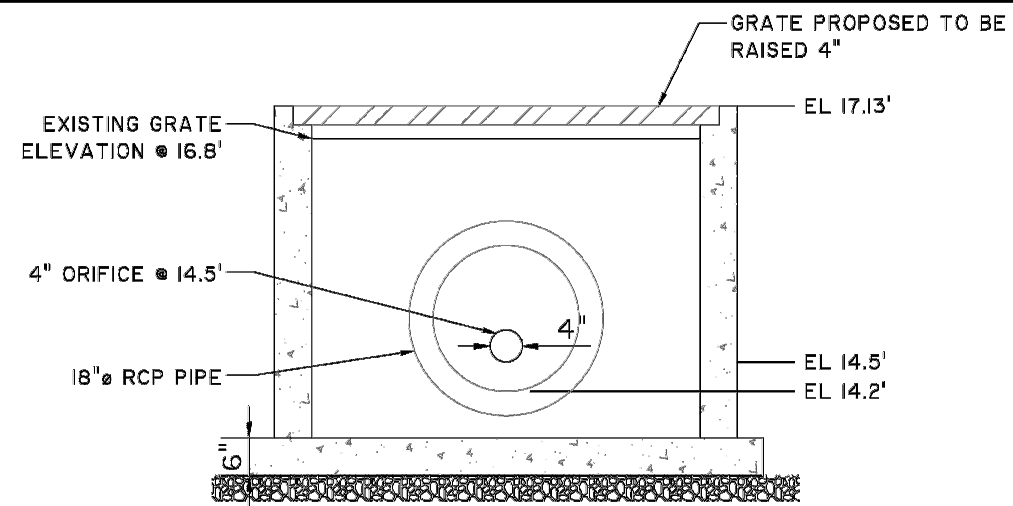


NOTES:

- BEDDING SHALL BE COMPACTED CRUSHED STONE (CLASS 1 MATERIAL) SHAPED TO THE BOTTOM OF THE PIPE.
- SELECT FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS, DEBRIS OR ORGANICS AND PLACED IN 6" OR 8" LOOSE LIFTS AND COMPACTED TO MIN. 95% OF THE SOILS STANDARD PROCTOR, AND 98% WHEN UNDER PAVEMENT.

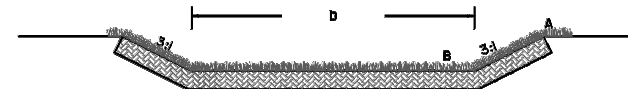
CLASS "C" STORM DRAINAGE PIPE BEDDING
SCALE: N.T.S.

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EXISTING CONTROL STRUCTURE IMPROVEMENTS

NOT TO SCALE



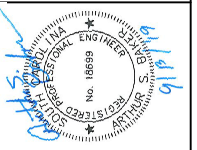
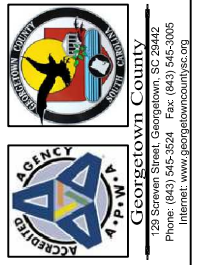
OVERFLOW WEIR SUMMARY	
	C-OVERFLOW
TOP OF BANK (A)	18.0'
SPILLWAY INVERT (B)	17.2'
NORMAL WATER ELEVATION	14.6'
SPILLWAY WIDTH (D)	18'

PROPOSED NEW OVERFLOW WEIR

NOT TO SCALE

Waccamaw Neck Branch Library
STORMWATER REPORT FIGURE 9
Proposed Outfall Structures Modification
Client:
Georgetown County
LOCATION: Georgetown County, SC
DATE: 07/19/19
JOB NUMBER: 23618.0001

THOMAS & HUTTON
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NO.	DATE	REVISION
1	4/17/2019	DESIGN DRAWINGS
2	9/13/2019	STORMWATER REVISION 1

PROJECT:
WACCAMAW LIBRARY-PARKING LOT EXPANSION
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: N.T.S.
DESIGNED BY: ASB
DRAWN BY: MPM
DATE: 9/13/2019
PAVEMENT AND OUTLET STRUCTURE DETAILS
SHEET NO: C-09

REFERENCES

NATIONAL DOCUMENTS

SC-M-815-9
01 SF

INSTALLATION:

1. FILTER FABRIC IS USED FOR INLET PROTECTION WHEN STORMWATER FLOWS ARE RELATIVELY SMALL (1.0 CFS OR LESS) WITH LOW VELOCITY FLOWS. THE INLET DRAINING AREA HAS GRADES TO EXCEED 1% AND THE INLET FABRIC IS DESIGNED TO PREVENT THE INLET FROM BEING OVERFLOWED. THE FABRIC SHALL BE PREVIOUSLY INSTALLED.
2. FILTER FABRIC SHALL CONFORM TO SCOD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). FILTER FABRIC SHALL BE LAYED ON THE GROUND AND THE TRENCH SHALL BE PREVIOUSLY INSTALLED.
3. USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 3 FEET CONSISTING OF STANDARD "1" SECTIONS WITH A MINIMUM OF 12" ABOVE THE POST TOP. THE HEIGHT OF THE FILTER FABRIC ABOVE THE GROUND SHALL BE 6" MINIMUM AND BE SECURED TO THE GROUND WITH A MINIMUM OF 2" PLASTIC TIES TO PREVENT SLIDING OR TEARING OF THE FABRIC.
4. FILTER FABRIC SHOULD BE IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE PROTECTED AREA TO AVOID JOINTS. FABRIC SHOULD BE OVERLAPPED BY 6" AND SECURED TO THE GROUND WITH A MINIMUM OF 2" PLASTIC TIES TO PREVENT SLIDING OR TEARING OF THE FABRIC.
5. PROVIDE A FILTER FABRIC CAPABLE OF REMOVING EFFLUENT SEDIMENT CONCENTRATIONS BY NOT LESS THAN 80% UNDER TYPICAL SEDIMENT WAGATION CONDITIONS.

INSPECTION AND MAINTENANCE:

1. INSPECTIONS SHOULD BE MADE EVERY SEVEN (7) CALENDAR DAYS. ANY NEEDED REPAIRS SHOULD BE HANDLED IMMEDIATELY.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FILTER FABRIC. USE A SHovel TO REMOVE SEDIMENT. SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/2 THE DEPTH OF THE HOLES. MAINTAIN THE HOLES ALWAYS PROTECTED BY GRADES SEDIMENT STORAGE HOLES FOR THE NEXT STORM. TAKE CARE NOT TO DAMAGE OR LOOSEN FILTER OR DEPOSITED SEDIMENT FROM THE AREA ADJACENT TO EACH INLET STRUCTURE FILTER.
4. STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM IN AN APPROPRIATE MANNER. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.
5. THE PAY ITEMS SHALL BE:
 - 815415 CLEANING INLET STRUCTURE FILTER TYPE A
 - 815415 CLEANING INLET STRUCTURE FILTER TYPE A

POST INSTALLATION DETAIL

FILTER FABRIC BURIAL DETAIL

FILTER FABRIC INSTALLATION DETAIL

TYPE A LOW FLOW INLET FILTERS (FILTER FABRIC INLET PROTECTION)

TYPE A LOW FLOW INLET FILTERS (SEDIMENT TUBE INLET PROTECTION)

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

PRECONSTRUCTION SUPPORT ENGINEER
No. 21242
JAMES W. KENDALL, JR.
SIGNATURE: James W. Kendall, Jr.
11/18/2016
DATE

REFERENCES

NATIONAL DOCUMENTS

SCOD DOCUMENTS

WQM, SC-M-810,
SC-M-815-9, QPL 55

RELATED DRAWINGS & REVIEWS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
GRASSED CHANNELS AND SWALES

815-008-01
EFFECTIVE LETTING DATE: JUL 2017

REFERENCES

NATIONAL DOCUMENTS

SCOD DOCUMENTS

WQM, SC-M-810,
SC-M-815-9, QPL 55

RELATED DRAWINGS & REVIEWS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
GRASSED CHANNELS AND SWALES

815-008-01
EFFECTIVE LETTING DATE: JUL 2017

PLAN VIEW

VARIES - MIN 3 EARTHEN FLOW CONTROL STRUCTURES PER LAST 100 FT PRIOR TO OUTFALL

USE GRASSED EARTHEN BERM FOR FLOW CONTROL

OUTFALL

FLOW

6.0% MAXIMUM CHANNEL SLOPE

SECTION A

2:1 MAXIMUM CHANNEL SIDE SLOPE

SIDE SLOPE CAN BE REDUCED TO MATCH ROAD CROSS-SECTION

10-YEAR STORM

WATER QUALITY STORM

FREEBOARD DISTANCE OF 1 FT IF SITE CONDITIONS ALLOW

DO NOT OPERATE HEAVY EQUIPMENT IN SWALE

2' MINIMUM BOTTOM WIDTH

VEGETATION MAINTAINED TO 6" HEIGHT

0.5 FT EARTHEN FLOW CONTROL STRUCTURE

NOTES:

1. GRASSED CHANNELS AND SWALES WILL BE DESIGNED IN ACCORDANCE WITH THE SCDOT WATER QUALITY MANUAL.
2. 1 FOOT OF FREEBOARD SHALL BE PROVIDED ABOVE THE 10-YEAR STORM IF SITE CONDITIONS ALLOW.
3. V-SHAPED DITCHES SHALL NOT BE USED AS GRASSED CHANNELS AND SWALES FOR WATER QUALITY.
4. THE STANDARD APPLICATION FOR WATER QUALITY APPLIES ONLY TO THE LAST 100 FEET OF GRASSED CHANNELS AND SWALES PRIOR TO OUTFALL AND DOES NOT INCLUDE THE ENTIRE CONVEYANCE.
5. PAY ITEMS FOR PERMANENT AND TEMPORARY SEEDING FOR CHANNEL AND SWALE STABILIZATION ARE PROVIDED IN SUPPLEMENTAL SPECIFICATION SC-M-810-4 OR MOST RECENT VERSION.
6. THE PAY ITEM SHALL BE:
 - 2031000 UNCLASSIFIED EXCAVATION.....CY

THIS DRAWING IS NOT TO SCALE

REFERENCES

NATIONAL DOCUMENTS

SCOD DOCUMENTS

SC-M-815-12
01 SF

RELATED DRAWINGS & REVIEWS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
SEDIMENT TUBE DITCH APPLICATION

815-205-00
EFFECTIVE LETTING DATE: JUL 2017

NOTES:

1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS MANUAL. ALL TUBES MUST MEET THE CRITERIA OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS BEFORE BEING LISTED ON QPL AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.
2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT TUBES ARE IN THE PROPER POSITION. THE TUBES SHALL BE LAYED ON THE GROUND AND THE TRENCH SHALL BE PREVIOUSLY INSTALLED. THE TRENCH SHALL BE 2" DEEP AND 2" WIDE. THE TUBES SHALL BE LAYED ON THE GROUND AND THE TRENCH SHALL BE PREVIOUSLY INSTALLED. THE TRENCH SHALL BE 2" DEEP AND 2" WIDE. THE TUBES SHALL BE LAYED ON THE GROUND AND THE TRENCH SHALL BE PREVIOUSLY INSTALLED. THE TRENCH SHALL BE 2" DEEP AND 2" WIDE.
3. SEDIMENT TUBE SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION. SEDIMENT TUBE IS TO BE REMOVED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.
4. SEDIMENT TUBES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW AND EXTEND UP SIDE SLOPE A MINIMUM OF 1 FOOT ABOVE DESIGN FLOW DEPTH. SPACE TUBES ACCORDING TO THE FOLLOWING TABLE:

SLOPE	MAXIMUM SEDIMENT TUBE SPACING
LESS THAN 2%	150 FEET
2%	100 FEET
3%	75 FEET
4%	50 FEET
5%	40 FEET
6%	30 FEET
GREATER THAN 6%	25 FEET

5. STAKE SEDIMENT TUBES FOR DITCH CHECKS USING STAKES WITH A MINIMUM HEIGHT ABOVE THE GROUND OF 4" AND A MAXIMUM HEIGHT OF 6". USE 2" DIA. STEEL STAKES. STAKES SHALL BE PLACED AT THE CENTER OF EACH TUBE AND THE CENTER OF EACH TUBE SHALL BE 2" FROM THE CENTER OF THE STAKE. STAKES ON THE DOWNSTREAM THIRD OF THE TUBE DO NOT REQUIRE STAKES. DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE STAKES.

6. SELECT PROPER LENGTH OF TUBE TO MINIMIZE THE NUMBER NEEDED TO SPAN THE TRENCH. THE TRENCH SHALL BE 2" DEEP AND 2" WIDE. THE TRENCH SHALL BE 2" DEEP AND 2" WIDE. THE TRENCH SHALL BE 2" DEEP AND 2" WIDE.

7. INSTALL SEDIMENT TUBES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS, OR CRACKED ASPHALT. SEDIMENT TUBES SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION. SEDIMENT TUBE IS TO BE REMOVED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.

8. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBE AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS.

9. REMOVE SEDIMENT TUBES FROM THE SITE WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE.

10. PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS, AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.

11. CLEAN OUT OF TUBES WILL BE PAID FOR AS CLEANING SILT BASINS.

12. PAYMENT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, MAINTENANCE, AND INCIDENTALS NECESSARY TO COMPLETE WORK.

13. THE PAY ITEMS SHALL BE:

- 815400 CLEANING SILT BASINS.....CY

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

PRECONSTRUCTION SUPPORT ENGINEER
No. 21242
JAMES W. KENDALL, JR.
SIGNATURE: James W. Kendall, Jr.
11/18/2016
DATE

REFERENCES

NATIONAL DOCUMENTS

SCOD DOCUMENTS

SC-M-815-10

RELATED DRAWINGS & REVIEWS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
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955 PARK STREET
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STANDARD DRAWING
STABILIZED CONSTRUCTION ENTRANCE

815-505-00
EFFECTIVE LETTING DATE: JUL 2017

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NOTES:

1. STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A PUBLIC ROAD ON SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.
2. IF WASHING IS USED, PROVISIONS MUST BE MADE TO PROTECT THE ROAD PAVEMENT AND THE SEDIMENT FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDOT AS NECESSARY. WASHING SHALL BE PERFORMED BY ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN. CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION AREAS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.
3. REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
4. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO MEET THE REQUIREMENTS OF SECTION 804 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, PRIOR TO PLACING ANY STONE.
5. INSTALL A CLASS 2 NON-WOVEN GEOTEXTILE FABRIC THAT MEETS THE REQUIREMENTS OF SECTION 804 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, PRIOR TO PLACING ANY STONE.
6. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24" MIN. x 100" MIN. AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
7. INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS. CHECK FOR MUD AND SEDIMENT BUILDUP AS WELL AS PAD INTEGRITY. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. REPAIR THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
8. WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE ENGINEER. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER ONE STONE IS FOUND TO BE LOOSE. WASHING WILL EXTEND THE USEFUL LIFE OF STONE.
9. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. MUD AND SEDIMENT SHOULD BE REMOVED WHEN THE MUD CAN BE DISLINED SHOULD A SEDIMENT TRAP OR BASIN.
10. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.
11. USE AGGREGATE NO. 1, 2, 24, OR 3 AS CONSTRUCTION ENTRANCE MATERIAL.
12. PAY ITEM:
 - 8156400 STABILIZED CONSTRUCTION ENTRANCE.....CY

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ROOM 405
COLUMBIA, SC 29201

PRECONSTRUCTION SUPPORT ENGINEER
No. 21242
JAMES W. KENDALL, JR.
SIGNATURE: James W. Kendall, Jr.
11/09/2016
DATE

GEORGETOWN COUNTY
129 Sawwen Street, Georgetown, SC 29442
Phone: (843) 545-3524 Fax: (843) 545-3005
Internet: www.georgetowncountysc.gov

AGENCY
41 P.W.P.
No. 18808

DESIGN DRAWINGS
STORMWATER REVISION 1

No. 1: 4/17/2019
No. 2: 9/13/2019

WACCAMAW LIBRARY-PARKING LOT EXPANSION
GEORGETOWN COUNTY, SOUTH CAROLINA

PROJECT: WACCAMAW LIBRARY-PARKING LOT EXPANSION

SCALE: N.T.S.

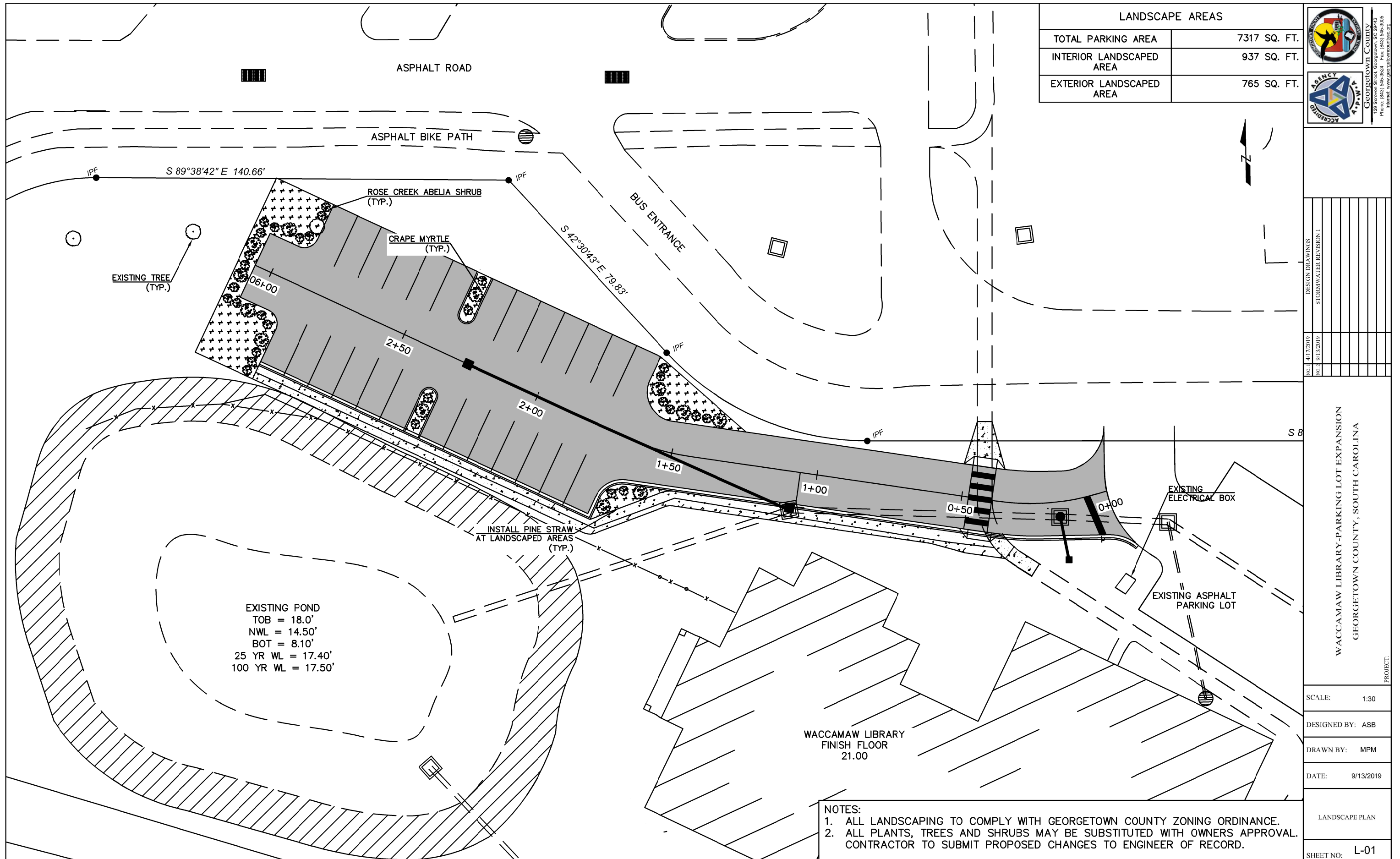
DESIGNED BY: ASB

DRAWN BY: MPM


DATE: 9/13/2019

SCDOT DETAILS

SHEET NO: C-13



LANDSCAPE AREAS	
TOTAL PARKING AREA	7317 SQ. FT.
INTERIOR LANDSCAPED AREA	937 SQ. FT.
EXTERIOR LANDSCAPED AREA	765 SQ. FT.




 GEORGETOWN COUNTY

 128 Seawater Street, Georgetown, SC 29542

 Phone: (843) 545-3524 Fax: (843) 545-3005

 Internet: www.georgetowncountysc.org



 AGENCY

 4 P.W.P.

NO.	DATE	DESCRIPTION
NO. 1	4/17/2019	DESIGN DRAWINGS
NO. 2	9/13/2019	STORMWATER REVISION 1

PROJECT:

 WACCAMAW LIBRARY-PARKING LOT EXPANSION

 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: 1:30

 DESIGNED BY: ASB

 DRAWN BY: MPM

 DATE: 9/13/2019

LANDSCAPE PLAN

 SHEET NO: L-01

EXISTING POND

 TOB = 18.0'

 NWL = 14.50'

 BOT = 8.10'

 25 YR WL = 17.40'

 100 YR WL = 17.50'

WACCAMAW LIBRARY

 FINISH FLOOR

 21.00

- NOTES:
1. ALL LANDSCAPING TO COMPLY WITH GEORGETOWN COUNTY ZONING ORDINANCE.
 2. ALL PLANTS, TREES AND SHRUBS MAY BE SUBSTITUTED WITH OWNERS APPROVAL. CONTRACTOR TO SUBMIT PROPOSED CHANGES TO ENGINEER OF RECORD.