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SITE DEVELOPMENT PLANS
FOR
SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA

PREPARED FOR
PATH Foundation

PROJECT NUMBER 110288C

PREPARED BY

KAIZENCOLLABORATIVE
1764 Belle Isle Circle, NE | Atlanta, GA | 30329
AND

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
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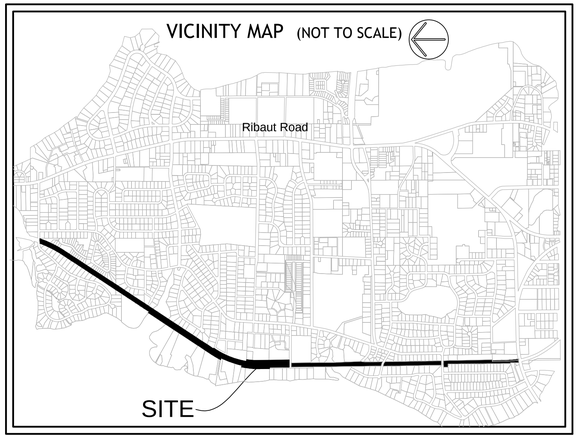
SPANISH MOSS TRAIL
BJWSA No. 2013-0XX

VICINITY MAP (NOT TO SCALE)



PROJECT DATA

DEVELOPER:	ED MCBRAYER / PATH FOUNDATION PO BOX 14327 ATLANTA, GEORGIA 30324
24 HOUR CONTACT:	ED MABRAYER
TELEPHONE:	(404) 875-7284
FAX:	(404) 875-3242
JURISDICTION:	BEAUFORT COUNTY, SC
TAX MAP #:	RAILROAD RIGHT-OF-WAY
911/STREET ADDRESS:	N/A
PROPERTY OWNER OF RECORD:	BEAUFORT JASPER WATER & SEWER AUTHORITY
NPDES DISTURBED AREA:	14.9 ACRES
APPROXIMATE LOCATION OF SITE:	
LONGITUDE:	W 80° 42' 16"
LATITUDE:	N 32° 23' 33"

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

SCHEDULE OF DRAWINGS

SHEET NO.	DESCRIPTION
C.01	COVER SHEET (THIS SHEET)
C.02	CONSTRUCTION NOTES
C.03	OVERALL SITE PLAN
C.04A-G	LAYOUT, GRADING & DRAINAGE PLAN
C.05A-F	CONSTRUCTION DETAILS
L-0-4	LANDSCAPE PLANS (KAIZEN COLLABORATIVE)

RELEASE SCHEDULE

NO.	DESCRIPTION	DATE
A.	RELEASED FOR OWNER REVIEW - LAYOUT	07-08-2013
B.	RELEASED FOR PERMITTING	07-15-2013
C.	RELEASED FOR AGENCY APPROVALS	PENDING
D.	RELEASED FOR CITY & TOWN APPROVALS	PENDING
E.	RELEASED FOR CONSTRUCTION	
F.		
G.		

SOUTH CAROLINA WARD EDWARDS, INC. No. C00152 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22816 PAUL R. MOORE 07/15/13

SCDHEC-OCRM 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."

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GENERAL NOTES:

1. SURVEY INFORMATION TAKEN FROM ATLAS SURVEYING, DATED 07-08-2013.
2. APPROXIMATE LOCATION OF CERTAIN EXISTING UNDERGROUND UTILITY LINES AND STRUCTURES ARE SHOWN ON THE PLANS FOR INFORMATION ONLY ADDITIONAL UNDERGROUND LINES OR STRUCTURES MAY EXIST THAT ARE NOT SHOWN. CALL PALMETTO UTILITY PROTECTION SERVICE AT 1-888-721-7877 BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM MONDAY THRU FRIDAY AT LEAST THREE WORKING DAYS BEFORE COMMENCING CONSTRUCTION. REQUEST UNDERGROUND UTILITIES TO BE LOCATED AND MARKED WITHIN AND NEAR THE CONSTRUCTION SITE.
3. COMPLY WITH SOUTH CAROLINA UNDERGROUND UTILITY DAMAGE PREVENTION ACT (S.C. CODE ANN, 58-35-10, CT-SEQ, SUPP. 1978). NOTIFICATION OF INTENT TO EXCAVATE MAY BE GIVEN BY CALLING THE TOLL FREE NUMBER: 1-800-922-0983.
4. PROTECT BENCH MARKS AND PROPERTY MONUMENTS FROM DAMAGE DURING CONSTRUCTION OPERATIONS. REPLACE ANY BENCH MARKS OR MONUMENTS DAMAGED OR DESTROYED AS A RESULT OF CONTRACTOR'S OPERATIONS AT NO COST TO THE OWNER.
5. OFF-STREET PARKING FOR THE CONTRACTOR'S EMPLOYEES AND AUTHORIZED VISITORS TO THE SITE MUST BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO WEIGHT LIMITS PRESCRIBED FOR ALL PUBLIC ROADS WHEN HAULING EQUIPMENT AND MATERIALS TO AND FROM THE PROJECT SITE. DAMAGES TO EXISTING PAVEMENT DUE TO THE CONTRACTOR'S CONSTRUCTION OPERATIONS OR IMPROPER TRANSPORTATION OF MATERIALS AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. AT LEAST ONE DRIVING LANE ON PUBLIC ROADS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. TRAFFIC LANES WILL ONLY BE CLOSED WITH THE EXPRESS WRITTEN CONSENT OF THE AGENCY HAVING JURISDICTION OVER THE ROADWAY. NOTIFY AGENCY HAVING JURISDICTION AT LEAST 5 DAYS BEFORE CLOSING ANY DRIVING LANES TO TRAFFIC. PROVIDE TRAFFIC CONTROL DEVICES, SIGNAGE AND FLAGMEN AS REQUIRED TO ENSURE PUBLIC SAFETY.
8. CONTRACTOR SHALL COORDINATE DEMOLITION, CLEARING AND CONSTRUCTION OF IMPROVEMENTS TO MINIMIZE INTERFERENCE WITH VEHICULAR AND PEDESTRIAN TRAFFIC AND WITH OPERATIONS OF EXISTING FACILITIES.

WATER AND SEWER LINE CONSTRUCTION:

1. ALL WATER AND SEWER LINE CONSTRUCTION SHALL CONFORM TO APPLICABLE STATE AND BEAUFORT JASPER WATER AND SEWER AUTHORITY REQUIREMENTS, STANDARDS AND SPECIFICATIONS.
2. BJWSA WILL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF ALL WATER AND SEWER SYSTEM CONSTRUCTION AND FOR ACCEPTANCE FOR OPERATION AND MAINTENANCE.
3. ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY OWNERS AND FOR FIELD VERIFICATION OF BOTH HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. ANY DAMAGES TO EXISTING UTILITIES DUE TO THIS CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. NOTIFY THE PROJECT ENGINEER, IF CONFLICTS WITH EXISTING STRUCTURES REQUIRE THAT PROPOSED UTILITIES BE RELOCATED.
5. THE CONTRACTOR MUST NOTIFY BJWSA FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION, INSPECTION OR TESTING OF THE WATER DISTRIBUTION SYSTEM.
6. PIPE, FITTINGS, VALVES AND APPURTENANCES FOR WATER AND SEWER LINES SHALL ALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY TECHNICAL SPECIFICATIONS.
7. INSTALLATION OF WATER AND SEWER LINES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
8. CONTRACTOR SHALL INSTALL MECHANICAL RESTRAINTS ON ALL BENDS, PLUGS AND TEES, 2" OR LARGER, ON WATERLINES AND SANITARY SEWER FORCE MAINS.
9. ALL WATER MAINS SHALL BE STERILIZED AND PRESSURE TESTED IN ACCORDANCE WITH BJWSA SPECIFICATIONS.
10. SEPARATION OF WATER MAINS AND SEWERS:
    a. PARALLEL INSTALLATION: UNLESS OTHERWISE SPECIFICALLY SHOWN IN A SPECIAL DETAIL ON THE PLANS, INSTALL WATER MAINS AT LEAST 10-FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER OR SANITARY SEWER FORCE MAIN, THE DISTANCE BEING MEASURED IN A HORIZONTAL PLANE BETWEEN THE OUTSIDE SURFACES OF THE PIPES.
    b. CROSSINGS: UNLESS OTHERWISE SPECIFICALLY SHOWN IN A SPECIAL DETAIL ON THE PLANS, INSTALL WATER LINES CROSSING SANITARY SEWERS OR SANITARY SEWER FORCE MAINS TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18-INCHES BETWEEN THE OUTSIDE SURFACES OF THE PIPES. THIS SHALL BE THE CASE WHETHER THE WATER LINE IS ABOVE OR BELOW THE SANITARY SEWER LINE. WHENEVER POSSIBLE LOCATE THE WATER LINE ABOVE THE SEWER LINE. WHERE A NEW WATER LINE CROSSES A NEW SEWER LINE, PLACE A FULL LENGTH OF DUCTILE IRON PIPE FOR BOTH THE WATER AND THE SEWER LINE AT THE CROSSING WITH BOTH PIPES POSITIONED SO THAT THE JOINTS ON EACH ARE AS FAR AS POSSIBLE FROM THE POINT OF CROSSING. WHERE A NEW WATER LINE CROSSES AN EXISTING SEWER LINE, PLACE ONE FULL LENGTH OF DUCTILE IRON PIPE WATER LINE SO THAT THE JOINTS ARE AS FAR FROM THE POINT OF CROSSING AS POSSIBLE.
11. THE CONTRACTOR SHALL CUT AND PATCH EXISTING PAVEMENT AS REQUIRED FOR THE INSTALLATION OF UTILITY LINES.
12. SANITARY MANHOLE RIM GRADES SHOWN ARE APPROXIMATE. ADJUST RIM ELEVATIONS TO BE FLUSH WITH FINISHED GRADE.
13. THE CONTRACTOR UNDER THIS CONTRACT SHALL NOT MAKE ANY CONNECTIONS TO THE EXISTING WATER OR SANITARY SEWER SYSTEMS UNLESS EXPRESSLY AUTHORIZED TO DO SO BY THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY. ALL WATER AND SEWER IMPROVEMENTS UNDER THIS CONTRACT MUST BE CONSTRUCTED COMPLETE, TESTED, INSPECTED AND APPROVED BY THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY BEFORE ANY AUTHORIZATION TO CONNECT WILL BE GIVEN. COORDINATION OF TESTING, INSPECTION AND CONNECTIONS WITH THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY IS THE RESPONSIBILITY OF THE CONTRACTOR UNDER THIS CONTRACT.
14. ALL WATER MAINS SHALL BE INSTALLED WITH THIRTY-SIX INCHES (36") MINIMUM COVER (FROM FINISHED GRADE). MAXIMUM DEPTH SHALL BE FIVE FEET (5'). WHERE WATER MAINS MAY CONFLICT WITH OTHER UTILITIES, THE WATER MAIN CROSSING SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE, MECHANICAL JOINT 45-DEG. BENDS AND MECHANICAL RESTRAINTS.

SITE CLEARING AND DEMOLITION:

1. NO CLEARING SHALL OCCUR WITHIN DESIGNATED BUFFER ZONES, TREE PROTECTION ZONES, OUTSIDE OF THE PROPERTY LINES OR BEYOND THE CLEARING LIMITS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE PLANS.
2. ONLY THOSE TREES DESIGNATED ON THE DRAWINGS FOR REMOVAL ARE TO BE REMOVED AS PART OF THE SITE CLEARING OPERATIONS.
3. THE CONTRACTOR SHALL INSTALL A CONTINUOUS LINE OF FLAGGING OR FENCING ALONG THE LIMITS OF CLEARING PRIOR TO COMMENCING ANY CLEARING, DEMOLITION OR CONSTRUCTION WORK ON THE PROJECT.
4. EXERCISE CAUTION DURING CLEARING OPERATIONS TO AVOID FELLING TREES INTO DESIGNATED TREE PROTECTION ZONES.
5. NO BURNING WILL BE ALLOWED WITHIN 50 FEET OF A TREE PROTECTION ZONE OR TREE DRIP LINE.
6. SELECTIVE CLEARING AREAS SHALL BE CLEARED OF ALL BRUSH AND UNDERSTORY GROWTH.

TREE PROTECTION-BEAUFORT

1. ALL TREES HAVING A TRUNK DIAMETER OF 8-INCHES (dbh) OR LARGER, AND SPECIMEN TREES MUST BE PRESERVED UNLESS SPECIFICALLY APPROVED FOR REMOVAL IN ACCORDANCE WITH THE CITY OF BEAUFORT ZONING AND DEVELOPMENT STANDARDS ORDINANCE AND INDICATED ON THE PLANS TO BE REMOVED.
2. PRIOR TO COMMENCING ANY CLEARING OR CONSTRUCTION OPERATIONS ON THE SITE, THE CONTRACTOR SHALL ERECT TREE PROTECTION BARRIERS AROUND EACH TREE OR GROUP OF TREES DESIGNATED FOR PRESERVATION IN ACCORDANCE WITH THE DETAILS ON THE PLANS AND THE REQUIREMENTS CONTAINED IN ARTICLE 7, SECTION 7.3, PAR. D.3 OF THE CITY OF BEAUFORT, SOUTH CAROLINA UNIFIED DEVELOPMENT ORDINANCE.
3. A TREE PROTECTION ZONE SHALL BE ESTABLISHED IN ACCORDANCE WITH THE PROVISIONS CONTAINED IN ARTICLE 7, SECTION 7.3, PAR. D.3 OF THE CITY OF BEAUFORT, SOUTH CAROLINA UNIFIED DEVELOPMENT ORDINANCE FOR EACH EXISTING TREE OR GROUPING OF TREES DESIGNATED FOR PRESERVATION. THE MINIMUM TREE PROTECTION ZONE AS DEFINED IN THE ORDINANCE IS A CIRCULAR AREA CENTERED ON THE TREE AND HAVING A RADIUS OF THE GREATER OF 5-FT. OR ONE-HALF FOOT PER INCH dbh (DIAMETER AT BREAST HEIGHT). THE SIZE OR CONFIGURATION OF THE TREE PROTECTION ZONE MAY BE ADJUSTED AT THE DISCRETION OF THE CITY'S ADMINISTRATOR OF THE ORDINANCE.
    A PLACEMENT OR STORAGE OF ANY SOIL, DEBRIS, OILS, FUEL, PAINTS, BUILDING MATERIALS OR ANY OTHER MATERIALS.
    B BURNING
    C VEHICLE PARKING
    D PAVING
    E TRENCHING FOR UTILITIES
4. WHERE UTILITY LINES MUST PASS THRU THE TREE PROTECTION ZONE, THEY SHALL BE INSTALLED BY HORIZONTAL BORING BENEATH THE ROOTS OF THE TREE.
5. WHERE IT IS NECESSARY FOR MACHINERY AND EQUIPMENT TO PASS WITHIN THE TREE PROTECTION ZONE, APPROVAL MUST BE OBTAINED FROM THE ZONING AND DEVELOPMENT ADMINISTRATOR. SPECIAL MEASURES WILL BE REQUIRED TO PROTECT THE ROOTS FROM EXCESSIVE COMPACTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL TREE REMOVAL PERMITS AND FOR COORDINATING ALL INSPECTIONS REQUIRED BY BEAUFORT COUNTY IN CONNECTION WITH TREE PRESERVATION AND REMOVAL ACTIVITIES. DURING CONSTRUCTION.

SITE GRADING AND DRAINAGE:

1. ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 72-HOUR NOTICE TO ALL RESPECTIVE UTILITY COMPANIES FOR FIELD VERIFICATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGES TO EXISTING UTILITIES DUE TO THIS CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. TEMPORARY CONTROL OF STORM WATER DRAINAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEQUENCING AND CONSTRUCTION TECHNIQUES SHALL PREVENT OBSTRUCTION OF STORM SEWERS, PONDING IN TRAFFIC AREAS OR RISING OF WATER LEVELS WHICH WOULD ENTER ADJACENT BUILDINGS OR STRUCTURES.
3. FULL WIDTH OF STREET AND ROAD RIGHTS-OF-WAY MUST BE CLEARED AND GRADED AS SHOWN IN THE DETAILS ON THE DRAWINGS
4. SUBGRADE PREPARATION: TOP SOIL SHALL BE REMOVED FROM PAVED AREAS TO A MINIMUM DEPTH OF 4". ALL EXCAVATION SHALL BE TO SUBGRADE LIMITS.
5. ALL UTILITY PIPE LINES, CONDUITS AND SLEEVES UNDER PAVED AREAS MUST BE IN PLACE PRIOR TO COMPLETION OF THE ROADWAY SUBGRADE COMPACTION.
6. FINISH GRADING SHALL INCLUDE THE PLACEMENT OF TOPSOIL OVER ALL UNPAVED AREAS NOT OCCUPIED BY BUILDINGS OR STRUCTURES AND FINE GRADING AROUND BUILDINGS, ADJACENT TO WALKS, CURBS, GUTTERS AND STRUCTURES TO ASSURE POSITIVE DRAINAGE.

SCDHEC/OCRM SEDIMENT AND EROSION CONTROL STANDARD NOTES (REVISED DEC-2012):

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 DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 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.

WORK ON SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY:

1. COMPLY WITH ALL SPECIAL PROVISIONS CONTAINED IN THE DEPARTMENT OF TRANSPORTATION ENCROACHMENT PERMIT ISSUED FOR THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL WORK ON DOT RIGHTS-OF-WAY WITH THE DISTRICT ENGINEERING REPRESENTATIVE.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DOT APPROVED TRAFFIC CONTROL PLAN FOR SITE ACCESS AND FOR CONSTRUCTION ON DEPARTMENT OF TRANSPORTATION RIGHTS-OF-WAY. ALL TRAFFIC CONTROL PROVISIONS MUST COMPLY WITH DEPARTMENT OF TRANSPORTATION MINIMUM REQUIREMENTS. LIGHTS, SIGNS, FLAGMEN AND ALL OTHER TRAFFIC CONTROL DEVICES MUST CONFORM TO THE REQUIREMENTS CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. PROVIDE ALL REGULATORY SIGNS, PAVEMENT STRIPING AND MARKINGS, AS REQUIRED BY THE SOUTH CAROLINA DOT DISTRICT ENGINEERING INSPECTOR. ALL SIGNS MUST CONFORM TO THE REQUIREMENTS CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TO THE SOUTH CAROLINA DOT STANDARD DETAILS WITH RESPECT TO COLOR, SIZE, REFLECTIVITY, HEIGHT AND PLACEMENT.
5. ALL PAVEMENT MARKINGS ON DOT RIGHTS-OF-WAY SHALL BE THERMOPLASTIC (125 MIL THICKNESS) AND MUST COMPLY WITH THE REQUIREMENTS IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. PLACEMENT SHALL BE IN ACCORDANCE WITH SOUTH CAROLINA DOT STANDARD DRAWINGS 603-3 AND 603-4, AS APPLICABLE.
6. ALL PAVEMENT MARKINGS TO BE REMOVED MUST BE ERADICATED BY GRINDING.

DRY UTILITY CONDUITS FOR ELECTRIC, TELEPHONE AND CABLE TV:

1. ALL DRY UTILITY CONDUIT ENDS SHALL BE CAPPED AND MARKED WITH A STEEL REBAR STAKE IMBEDDED ONE (1) FOOT BELOW GROUND SURFACE.
2. 48" MINIMUM DEPTH FOR ALL ELECTRICAL CONDUITS.
3. MAINTAIN MINIMUM 12" VERTICAL CLEARANCE WHEN CROSSING WATER, SEWER, AND STORM DRAIN LINES.
4. MAINTAIN MINIMUM 18" HORIZONTAL CLEARANCE WHEN PARALLELING WATER, SEWER AND STORM DRAIN LINES.
5. EXTEND CONDUIT BEYOND PAVEMENT, CURB, AND SIDEWALKS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE INSTALLATION OF ALL UTILITY SERVICE CONNECTIONS. REFER TO APPROVED BUILDING PLANS FOR THE EXACT LOCATION OF ALL SERVICE CONNECTIONS. THE CONTRACTOR MUST INSTALL ALL CONDUITS, AS SHOWN ON THE PLANS OR AS REQUIRED BY RESPECTIVE UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS WITH REGARDS TO THE INSTALLATION OF UTILITIES AND CONDUIT.
7. LOCATIONS SHOWN ON THE PLANS FOR PROPOSED DRY UTILITY CONDUITS ARE APPROXIMATE ONLY. ALL DIMENSIONING AND STAKING SHOULD BE BASED ON ECONOMICAL AND PRACTICAL CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE RESPECTIVE UTILITY REPRESENTATIVES, PRIOR TO ANY CONDUIT INSTALLATION.
8. TRANSFORMER PADS SHALL BE LOCATED AS DIRECTED BY THE RESPECTIVE UTILITY REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS.
9. NOTIFY THE ENGINEER IF CONFLICTS WITH EXISTING OR PROPOSED STRUCTURES REQUIRE THAT PROPOSED UTILITIES BE RELOCATED.

LEGEND

LINETYPES:

DESCRIPTION	EXISTING	PROPOSED
CENTERLINE		
CONTOUR LINE	15	15
CURB & GUTTER (standard)		
CURB & GUTTER (roll curb)		
DITCH CENTERLINE		
DRAIN LINE	SD	SD
EASEMENT		
FORCE MAIN	FM	FM
PAVEMENT		
PROPERTY LINE		
SEWER LINE	SS	SS
WATER LINE	W	WL

TYPICAL SYMBOLS:

DESCRIPTION	EXISTING	PROPOSED
TREE	9 P	
TREE TO BE REMOVED		9 P
TREE PROTECTION		9 P
SPOT ELEVATION	X15.0	FG:15.0
TOP OF PAVING	X15.0	TP:15.00
TOP OF CURB	X15.0	TC:15.00
TOP OF WALK	X15.0	TW:15.00
DIRECTION OF FLOW		

STRUCTURE SYMBOLS:

DESCRIPTION	EXISTING	PROPOSED
WEIR INLET		SDWI: A1
CATCH BASIN		SDCB: A1
CURB INLET		SDCI: A1
CURB INLET (WITH GRATE)		SDCI: A1
STORM DRAIN JUNCTION BOX	D	SDJB: A1
STORM DRAIN MANHOLE		SDMH: A1
STORM GRATE INLET		SDGI: A1
SANITARY SEWER MANHOLE	S	SSMH: A1
SANITARY SEWER CLEANOUT		CO
SANITARY SEWER WYE		

WATER SYSTEM SYMBOLS:

DESCRIPTION	EXISTING	PROPOSED
WATER METER		
WATER VALVE	W	WV
REDUCER		
POST INDICATOR VALVE		
FIRE HYDRANT		
BLOWOFF HYDRANT		
YARD HYDRANT		
FIRE DEPART. CONNECT. (FDC)		
CAP		
PLUG		

MATERIAL SYMBOLS:

DESCRIPTION	EXISTING	PROPOSED
PROPOSED DEMOLITION		
PROPOSED SIDEWALK/ CONCRETE		
EXISTING WETLANDS		
PROPOSED AGGREGATE/ STONES		
PROPOSED ASPHALT (STANDARD ASPHALT)		
PROPOSED ASPHALT (HEAVY DUTY)		
PERVIOUS PAVERS		

SEQUENCE OF CONSTRUCTION ACTIVITIES PROJECT PHASING

EST. START DATE: SEPT 1, 2013 EST. COMPLETION DATE: DEC 1, 2013

1. INSTALL TREE PROTECTION AND DELINEATE CLEARING LIMITS
2. INSTALL PERIMETER CONTROLS FOR SOIL EROSION
3. PROVIDE SITE DRAINAGE WITH DIVERSION DITCHES, SWALES AND DRAINS.
4. CLEAR AND GRUB SITE, INCLUDING DEMOLITION TO LIMITS, AS SHOWN
5. STRIP AND STOCKPILE TOP SOIL FOR USE IN LANDSCAPE AREAS AND BERMS
6. COMPLETE SITE GRADING FOR PARKING AREAS AND LANDSCAPE BERMS
7. START BUILDING CONSTRUCTION
8. COMPLETE UTILITY INSTALLATION
9. CONSTRUCT NEW CURB AND GUTTER AND PAVEMENT
10. FINISH GRADING AND FINAL GRASSING AND LANDSCAPING
11. REMOVE SEDIMENT CONTROLS AFTER SITE HAS BEEN STABILIZED

PUPS
PALMETTO UTILITY PROTECTION SERVICE INC

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

EROSION & SEDIMENT CONTROL LEGEND

EROSION PREVENTION

DESCRIPTION	SYMBOL
LAND GRADING:	LG OR
SURFACE ROUGHENING:	
TOPSOILING:	
TEMPORARY SEEDING:	TS
MULCHING:	M
ECB OR TRM:	
FGM:	FGM
BFM:	BFM
PERMANENT SEEDING:	PS
SODDING:	SO
RIPRAP:	
OUTLET PROTECTION:	RIPRAP / ECB or TRM
DUST CONTROL:	DC
POLYACRYLAMIDE (PAM):	PAM

SEDIMENT CONTROL

DESCRIPTION	SYMBOL
SEDIMENT BASIN:	
TEMPORARY SEDIMENT TRAP:	
ROCK SEDIMENT DIKE:	
ROCK CHECK DAM:	OR
SEDIMENT TUBE:	
SILT FENCE:	
REINFORCED SILT FENCE:	
TYPE A-FABRIC INLET PROTECTION:	A
TYPE A-SEDIMENT TUBE INLET PROTECTION:	A
TYPE B - WIRE MESH AND STONE DROP INLET PROTECTION:	B
TYPE C - BLOCK AND GRAVEL INLET PROTECTION:	C
TYPE D - RIGID INLET FILTERS:	D
TYPE E - SURFACE COURSE CURB INLET FILTER:	E
TYPE F - INLET TUBE:	F

RUNOFF CONVEYANCE MEASURES:

DESCRIPTION	SYMBOL
VEGETATED CHANNELS:	
RIPRAP-LINED CHANNELS:	
ECB OR TRM-LINED CHANNELS:	
PAVED CHANNELS:	PC PC PC
PIPE SLOPE DRAINS:	
TEMPORARY STREAM CROSSING:	
TEMPORARY DIVERSION DITCH OR SWALE:	TD TD
PERMANENT DIVERSION DITCH:	PD PD
DIVERSION DIKE OR BERM:	DB DB
LEVEL SPREADER:	
SUBSURFACE DRAIN:	SSD SSD

STANDARD ABBREVIATIONS

Ac	ACRE	MJ	MECHANICAL JOINT
ADT	AVERAGE DAILY TRAFFIC	N	NORTH
ASPH	ASPHALT	NBR	NORTH BOUND ROADWAY
BEG	BEGIN	NC	NORMAL CROWN
BL	BASELINE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
BM	BENCHMARK	NIC	NOT IN CONTRACT
BOB	BOTTOM OF BANK	OD	OUTSIDE DIAMETER
BOTT	BOTTOM	OH	OVERHEAD
BRG	BEARING	OHP	OVERHEAD POWER
BT	BURIED TELEPHONE	PAVT	PAVEMENT
B/C	BACK OF CURB	PC	POINT OF CURVATURE
C	RATE OF CHANGE IN SLOPE	PCC	POINT OF COMPOUND CURVATURE
C & G	CURB AND GUTTER	PERF	PERFORATED
CATV	CABLE TELEVISION	PG	PROFILE GRADE
CB	CATCH BASIN	PGE	PROFILE GRADE ELEVATION
CI	CURB INLET	PGL	PROFILE GRADE LINE
CL	CLEARANCE OR CENTERLINE	PI	POINT OF INTERSECTION
CONST	CONSTRUCTION	PR	POINT OF ROTATION
CORR	CORRECTION	PRC	POINT OF REVERSE CURVATURE
CF	CUBIC FEET	PRCST	PRECAST
CY	CUBIC YARD	PT	POINT OF TANGENCY
DA	DRAINAGE AREA	PVC	POLYVINYL CHLORIDE
DBI	DITCH BOTTOM INLET	PVI	POINT OF VERTICAL INTERSECTION
DBL	DOUBLE	Q	PEAK DISCHARGE OR FLOW VOLUME (CFS)
DHV	DESIGN HOURLY VOLUME	R	RATE OF CHANGE IN ELEVATION
DI	DROP INLET	R OR RAD	RADIUS
DIA OR D	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RDWY	ROADWAY
DT	DITCH	REQ OR REQD	REQUIRED
E	SUPERELEVATION	RT	RT
E	EAST OR EXTERNAL DISTANCE	R/W	RIGHT OF WAY
EGL	EXISTING GRADE LINE	S	SPEED OR SOUTH OR SLOPE
EL OR ELEV	ELEVATION	SAHM	SAND-ASPHALT HOT MIX
EMBK	EMBANKMENT	SAN	SANITARY
ENGR	ENGINEER	SF	SQUARE FOOT OR SILT FENCE
EQ	EQUAL	SY	SQUARE YARD
ESMT	EASEMENT	SBR	SOUTH BOUND ROADWAY
EW	ENDWALL	SD	STORM SEWER
EXIST	EXISTING	SED	SEDIMENT
F & I	FURNISH AND INSTALL	SHW	SEASONAL HIGH WATER
FES	FLARED END SECTION	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FM	FORCE MAIN	STA	STATION
FT	FOOT OR FEET	SUBGR	SUBGRADE
FUT	FUTURE	SUR	SURVEY
GI	GRATE INLET	SW OR SWK	SIDEWALK
GRD	GRADE	TC	TOP OF CURB
H OR HT	HEIGHT	TCE	TEMPORARY CONSTRUCTION EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE	TEL	TELEPHONE
HDWL	HEADWALL	TEMP	TEMPERATURE OR TEMPORARY
HORIZ	HORIZONTAL	TG	TOP OF GRATE
HP	HIGH POINT	TOB	TOP OF BANK
HW	HIGHWATER	TP	TOP OF PAVEMENT
HWY	HIGHWAY	TW	TOP OF SIDEWALK
HYD	HYDRANT OR HYDRAULIC	TYP	TYPICAL
ID	INSIDE DIAMETER	UNDDR	UNDERDRAIN
IE	INVERT ELEVATION	UG	UNDERGROUND
IN	INCH	UE	UNDERGROUND ELECTRIC
INSTL	INSTALL	UT	UNDERGROUND TELEPHONE
JB	JUNCTION BOX	UTIL	UTILITIES
LF	LINEAR FEET	VERT	VERTICAL
LGTH	LENGTH	W	WIDTH OR WEST
LOW	LIMIT OF WORK	WL	WATER LINE
LP	LOW POINT	WM	WATER MAIN
LT	LEFT	WT	WATER TABLE OR WEIGHT
MES	MITRED END SECTION	WV	WATER VALVE
MH	MANHOLE	WWF	WELDED WIRE FABRIC
MHW	MEAN HIGH WATER	YI	YARD INLET

PROJECT AREA SUMMARY

SITE AREA SUMMARY:

TOTAL SITE AREA	40.02 AC	
IMPERVIOUS COVERAGE		
PROPOSED CONCRETE	143,469 SQ. FT	
TOTAL IMPERVIOUS COVERAGE	143,469 SQ. FT	8%
PERVIOUS COVERAGE		
PROPOSED PERVIOUS PAVING (CONC.)		
PROPOSED PERVIOUS PAVING (GRAVEL)	23,727 SQ. FT	
LANDSCAPE/UNDISTURBED	1,576,075 SQ. FT	
TOTAL PERVIOUS COVERAGE	1,599,802 SQ. FT	92%

PARKING SUMMARY:

BROOME LANE	12 STANDARD & 2 HANDICAP
WESTVIEW DRIVE	12 STANDARD & 2 HANDICAP
RIBAUT ROAD	24 STANDARD & 2 HANDICAP
TOTAL PARKING COUNT	48 STANDARD & 6 HANDICAP

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22816 PAUL R. MOORE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		
7		

PLAN REVISIONS

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA
PATH Foundation
Atlanta, Georgia

CONSTRUCTION NOTES

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=60'

SHEET
C.01

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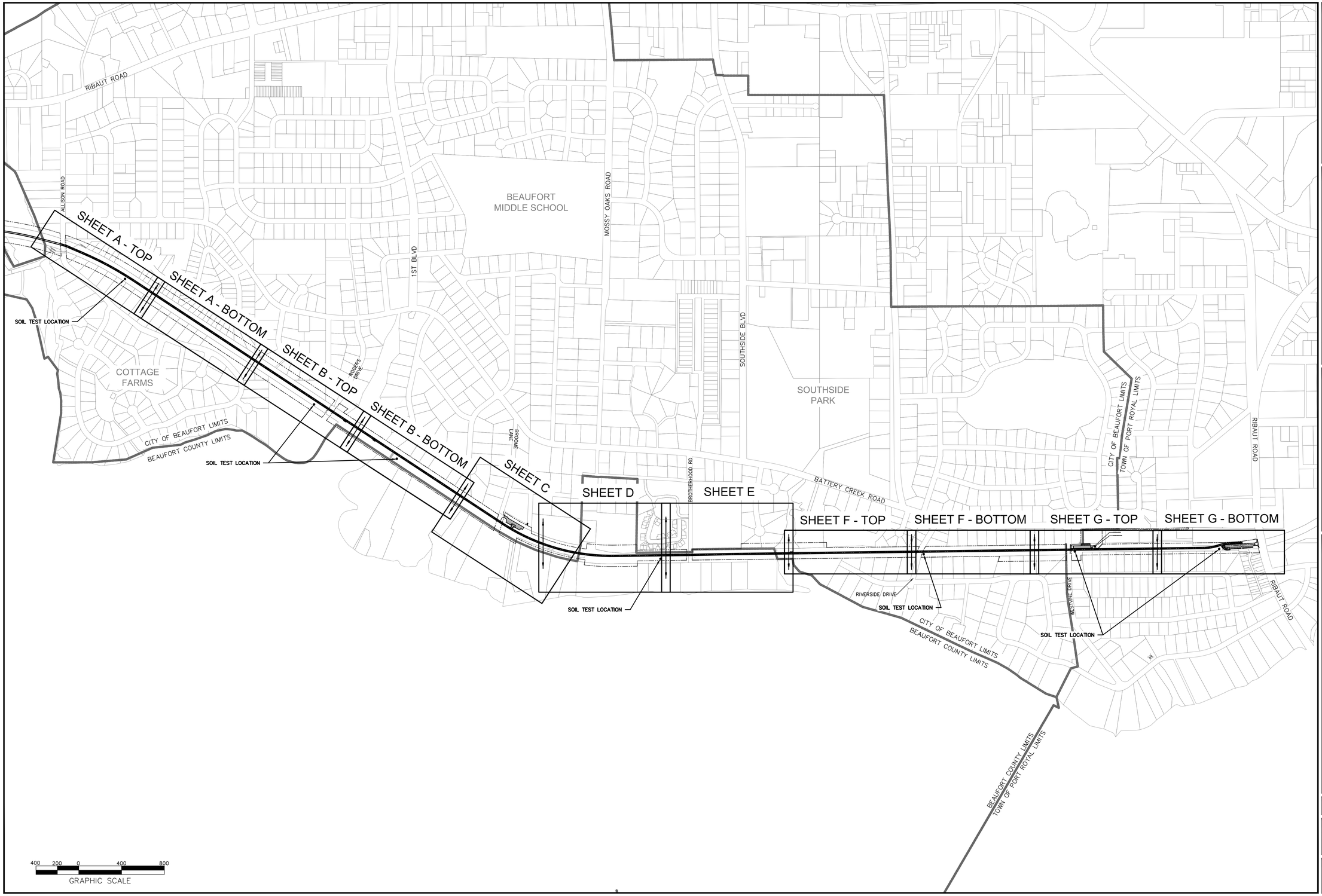

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 22816 PAUL R. MOORE

SOUTH CAROLINA WARD EDWARDS, INC. No. C00152 CERTIFICATE OF AUTHORIZATION

NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
2		
3		
4		
5		
6		
7		

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

OVERALL SITE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=400'

SHEET
C.03

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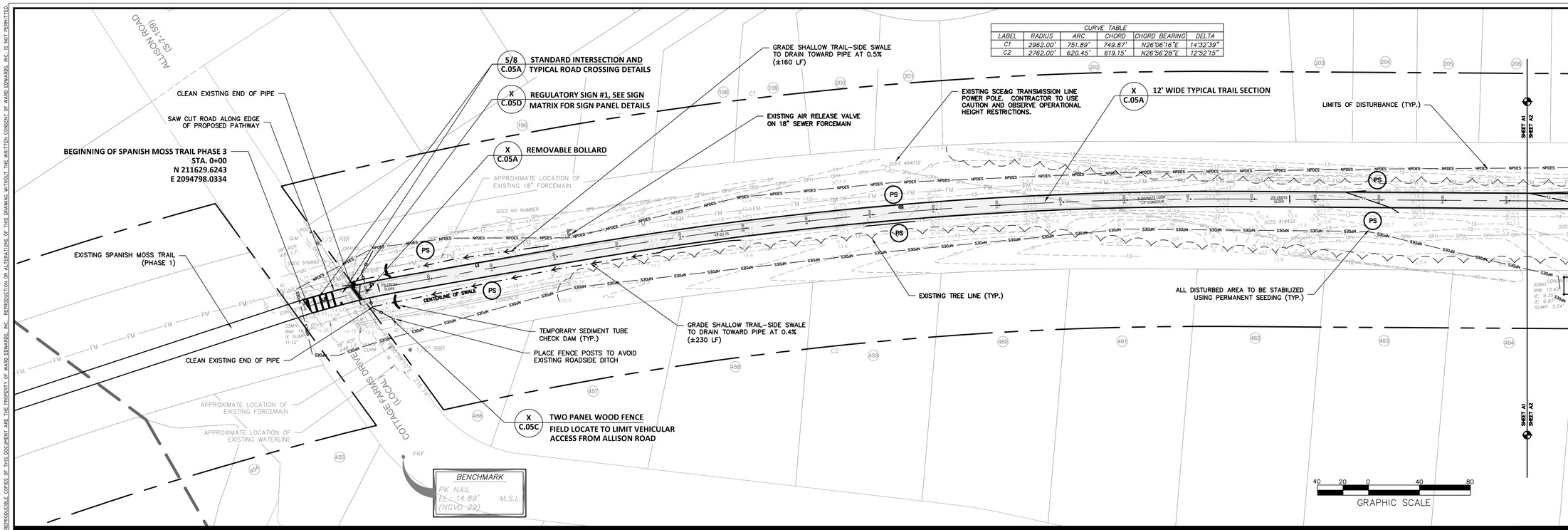
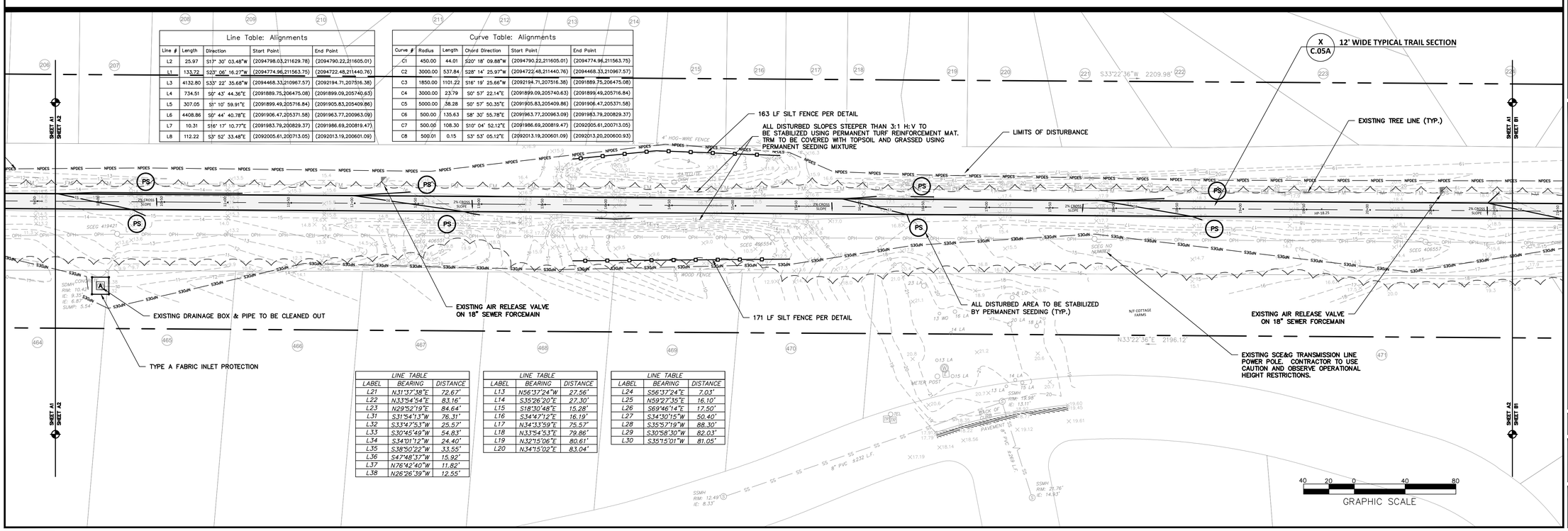


CURVE TABLE					
LABEL	RADIUS	ARC	CHORD	CHORD BEARING	DELTA
C1	2962.00'	751.89'	749.87'	N26°06'16"E	14°32'39"
C2	2762.00'	620.45'	619.15'	N26°56'28"E	12°52'15"

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	25.97	S17° 30' 03.48"W	(2094798.03,211629.78)	(2094790.22,211605.01)
L1	133.72	S23° 06' 16.27"W	(2094774.96,211563.75)	(2094722.48,211440.76)
L3	4132.80	S33° 22' 35.68"W	(2094468.33,210957.57)	(2092194.71,207516.38)
L4	734.51	S0° 43' 44.36"E	(2091889.75,206475.08)	(2091899.09,205740.63)
L5	307.05	S1° 10' 59.91"E	(2091899.49,205716.84)	(2091905.83,205409.86)
L6	4408.86	S0° 44' 40.78"E	(2091906.47,205371.58)	(2091963.77,200963.09)
L7	10.31	S16° 17' 10.77"E	(2091983.79,200829.37)	(2091986.69,200819.47)
L8	112.22	S3° 52' 33.48"E	(2092005.61,200713.05)	(2092013.19,200601.09)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	450.00	44.01	S20° 18' 09.88"W	(2094790.22,211605.01)	(2094774.96,211563.75)
C2	3000.00	537.84	S28° 14' 25.97"W	(2094722.48,211440.76)	(2094468.33,210957.57)
C3	1850.00	1101.22	S16° 19' 25.66"W	(2092194.71,207516.38)	(2091889.75,206475.08)
C4	3000.00	23.79	S0° 57' 22.14"E	(2091899.09,205740.63)	(2091899.49,205716.84)
C5	5000.00	38.28	S0° 57' 50.35"E	(2091905.83,205409.86)	(2091906.47,205371.58)
C6	500.00	135.63	S8° 30' 55.78"E	(2091963.77,200963.09)	(2091983.79,200829.37)
C7	500.00	108.30	S10° 04' 52.12"E	(2091986.69,200819.47)	(2092005.61,200713.05)
C8	500.01	0.15	S3° 53' 05.12"E	(2092013.19,200601.09)	(2092013.20,200600.93)



LINE TABLE		
LABEL	BEARING	DISTANCE
L21	N31°37'38"E	72.67'
L22	N33°54'54"E	83.16'
L23	N29°52'19"E	84.64'
L31	S31°54'13"W	76.31'
L32	S33°42'53"W	26.52'
L33	S30°45'49"W	54.83'
L34	S34°01'12"W	24.40'
L35	S38°50'22"W	33.55'
L36	S47°48'37"W	15.92'
L37	N76°42'40"W	11.82'
L38	N26°26'39"W	12.55'

LINE TABLE		
LABEL	BEARING	DISTANCE
L13	N56°37'24"W	27.56'
L14	S35°26'20"E	27.30'
L15	S18°30'48"E	15.28'
L16	S34°47'12"E	16.19'
L17	N34°33'59"E	75.52'
L18	N33°54'53"E	79.86'
L19	N32°15'06"E	80.61'
L20	N34°15'02"E	83.04'

LINE TABLE		
LABEL	BEARING	DISTANCE
L24	S56°37'24"E	7.03'
L25	N59°27'35"E	16.10'
L26	S69°46'14"E	17.50'
L27	S34°30'15"W	50.40'
L28	S35°27'9"W	88.30'
L29	S30°58'30"W	82.03'
L30	S35°15'01"W	81.05'

NO.	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1	PLAN REVISIONS	

Ward Edwards ENGINEERING
P.O. BOX 381 · BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3

BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

LAYOUT, GRADING & DRAINAGE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	II0288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=40'

SHEET
C.04A

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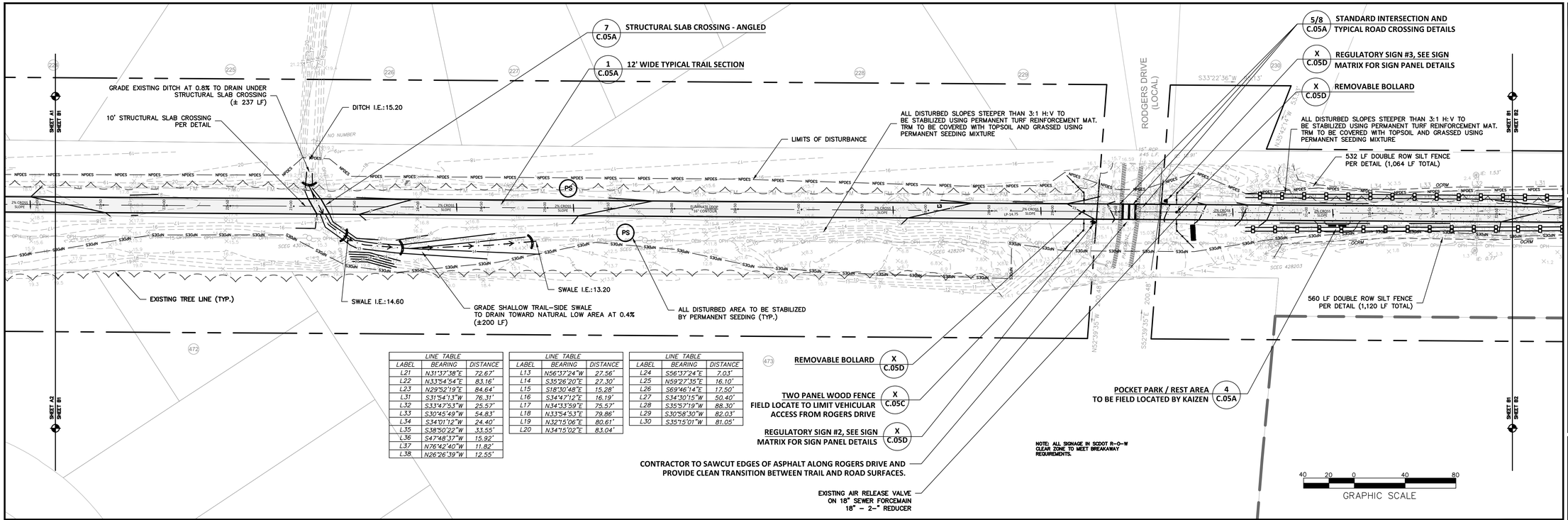

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L34	S34°01'12"W	24.40'
L35	S38°50'22"W	33.55'
L36	S47°48'37"W	15.92'
L37	N76°42'40"W	11.82'
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LINE TABLE		
LABEL	BEARING	DISTANCE
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L16	S34°47'12"E	16.19'
L17	N34°33'59"E	75.57'
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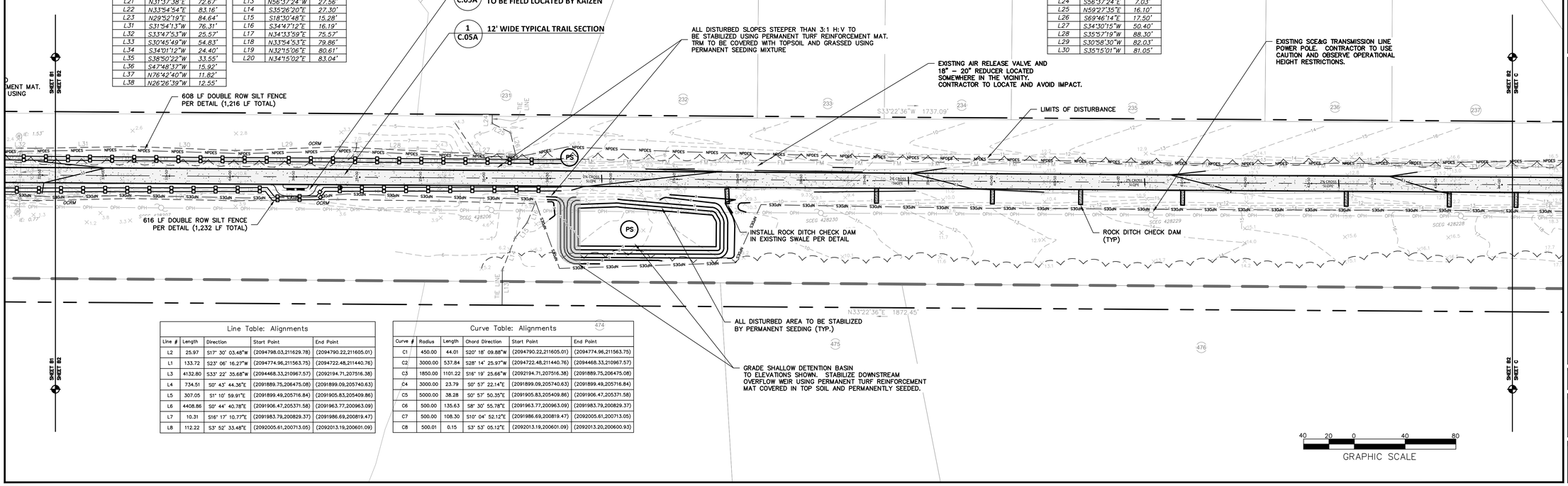

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SOUTH CAROLINA PROFESSIONAL ENGINEER PAUL R. PRIM No. 22816 LICENSED

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
2		
3		
4		
5		
6		
7		

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3

BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

LAYOUT, GRADING & DRAINAGE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=40'

SHEET
C.04B

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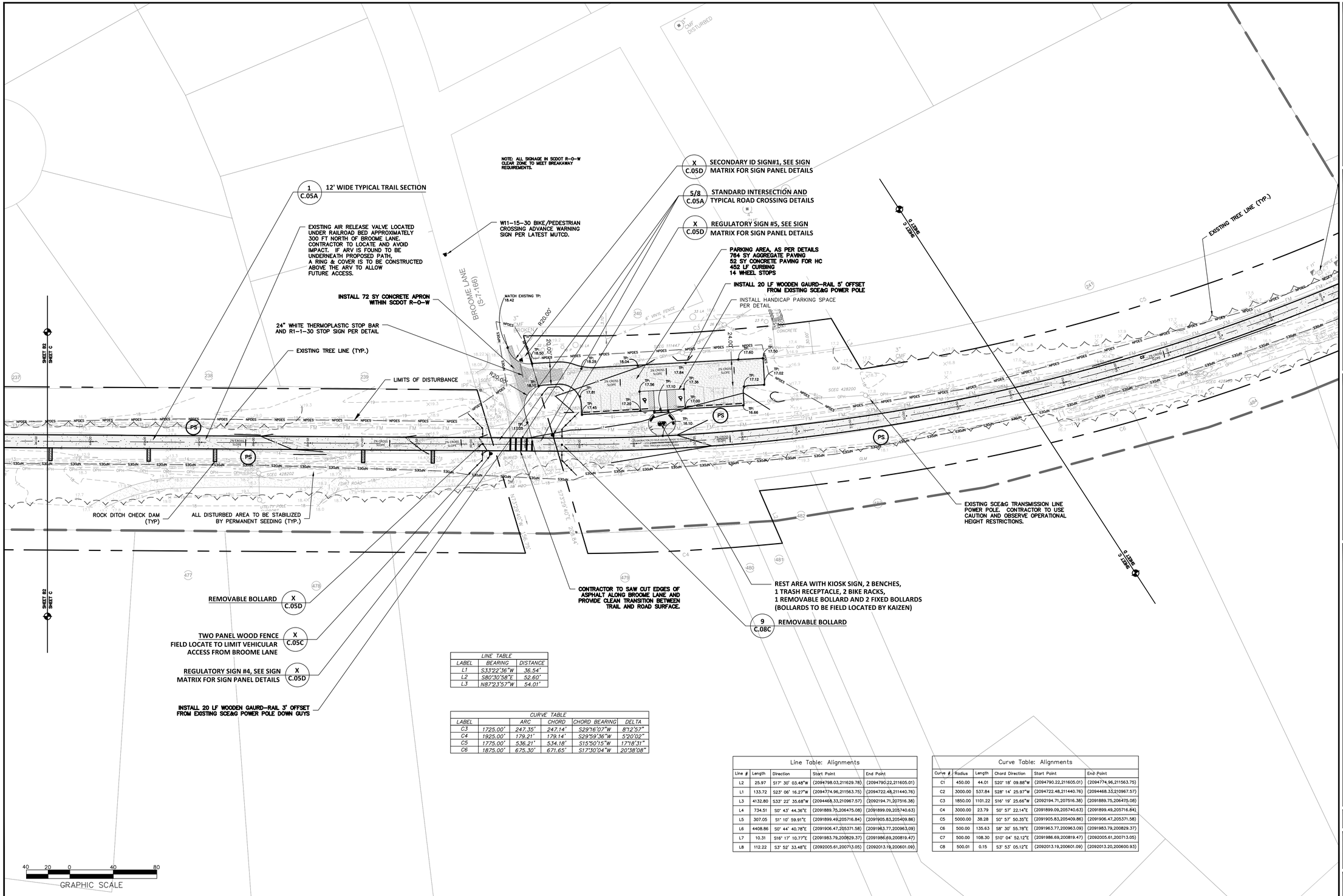

LINE TABLE		
LABEL	BEARING	DISTANCE
L1	S33°22'36"W	36.54'
L2	S80°30'58"E	52.60'
L3	N87°23'57"W	54.01'

CURVE TABLE					
LABEL		ARC	CHORD	CHORD BEARING	DELTA
C3	1725.00'	247.35'	247.14'	S29°16'07"W	8°12'57"
C4	1925.00'	179.21'	179.14'	S29°59'36"W	5°20'02"
C5	1775.00'	536.21'	534.18'	S15°50'15"W	17°18'31"
C6	1875.00'	675.30'	671.65'	S17°30'04"W	20°38'08"

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L4	734.51	S0° 43' 44.36"E	(2091889.75,206475.08)	(2091899.09,205740.63)
L5	307.05	S1° 10' 59.91"E	(2091899.49,205716.84)	(2091905.83,205409.86)
L6	4408.86	S0° 44' 40.78"E	(2091906.47,205371.58)	(2091963.77,200963.09)
L7	10.31	S16° 17' 10.77"E	(2091983.79,200829.37)	(2091986.69,200819.47)
L8	112.22	S3° 52' 33.48"E	(2092005.61,200713.05)	(2092013.19,200601.09)

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	450.00	44.01	S20° 18' 09.88"W	(2094790.22,211605.01)	(2094774.96,211563.75)
C2	3000.00	537.84	S28° 14' 25.97"W	(2094722.48,211440.76)	(2094468.33,210967.57)
C3	1850.00	1101.22	S16° 19' 25.66"W	(2092194.71,207516.38)	(2091889.75,206475.08)
C4	3000.00	23.79	S0° 57' 22.14"E	(2091899.09,205740.63)	(2091899.49,205716.84)
C5	5000.00	38.28	S0° 57' 50.35"E	(2091905.83,205409.86)	(2091906.47,205371.58)
C6	500.00	135.63	S8° 30' 55.78"E	(2091963.77,200963.09)	(2091983.79,200829.37)
C7	500.00	108.30	S10° 04' 52.12"E	(2091986.69,200819.47)	(2092005.61,200713.05)
C8	500.01	0.15	S3° 53' 05.12"E	(2092013.19,200601.09)	(2092013.20,200600.93)

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SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 22816 PAUL R. MILONE
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
1	PLAN REVISIONS	
2		
3		
4		
5		
6		
7		

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3

BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

LAYOUT, GRADING & DRAINAGE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=40'

SHEET
C.04C

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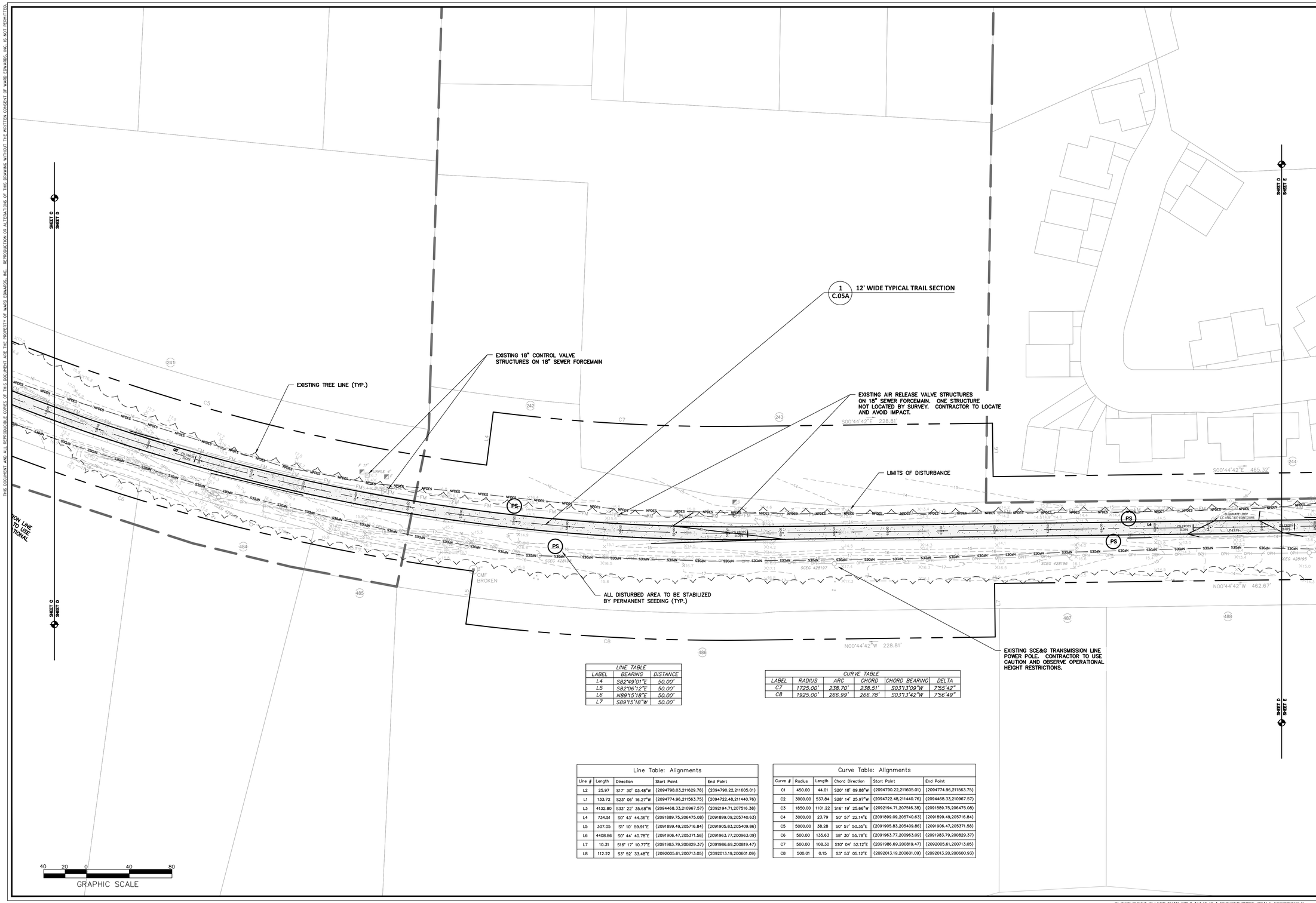

LINE TABLE		
LABEL	BEARING	DISTANCE
L4	S82°49'01"E	50.00'
L5	S82°56'12"E	50.00'
L6	N89°15'18"E	50.00'
L7	S89°15'18"W	50.00'

CURVE TABLE					
LABEL	RADIUS	ARC	CHORD	CHORD BEARING	DELTA
C7	1725.00'	238.70'	238.51'	S03°13'09"W	7°55'42"
C8	1925.00'	266.99'	266.78'	S03°13'42"W	7°56'49"

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L2	25.97	S17° 30' 03.48"W	(2094798.03,211629.78)	(2094790.22,211605.01)
L1	133.72	S23° 06' 16.27"W	(2094774.96,211563.75)	(2094722.48,211440.76)
L3	4132.80	S33° 22' 35.68"W	(2094468.33,210967.57)	(2092194.71,207516.38)
L4	734.51	S0° 43' 44.36"E	(2091889.75,206475.08)	(2091899.09,205740.63)
L5	307.05	S1° 10' 59.91"E	(2091899.49,205716.84)	(2091905.83,205409.86)
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L7	10.31	S16° 17' 10.77"E	(2091983.79,200829.37)	(2091986.69,200819.47)
L8	112.22	S3° 52' 33.48"E	(2092005.61,200713.05)	(2092013.19,200601.09)

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
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C2	3000.00	537.84	S28° 14' 25.97"W	(2094722.48,211440.76)	(2094468.33,210967.57)
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C8	500.01	0.15	S3° 53' 05.12"E	(2092013.19,200601.09)	(2092013.20,200600.93)

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SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 22816 PAUL R. MOORE 07/08/13

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
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Ward Edwards ENGINEERING
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SPANISH MOSS TRAIL - PHASE 3

BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

LAYOUT, GRADING & DRAINAGE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=40'

SHEET
C.04D

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Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	25.97	S17° 30' 03.48"W	(2094798.03,211629.78)	(2094790.22,211605.01)
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L8	112.22	S3° 52' 33.48"E	(2092005.61,200713.05)	(2092013.19,200601.09)

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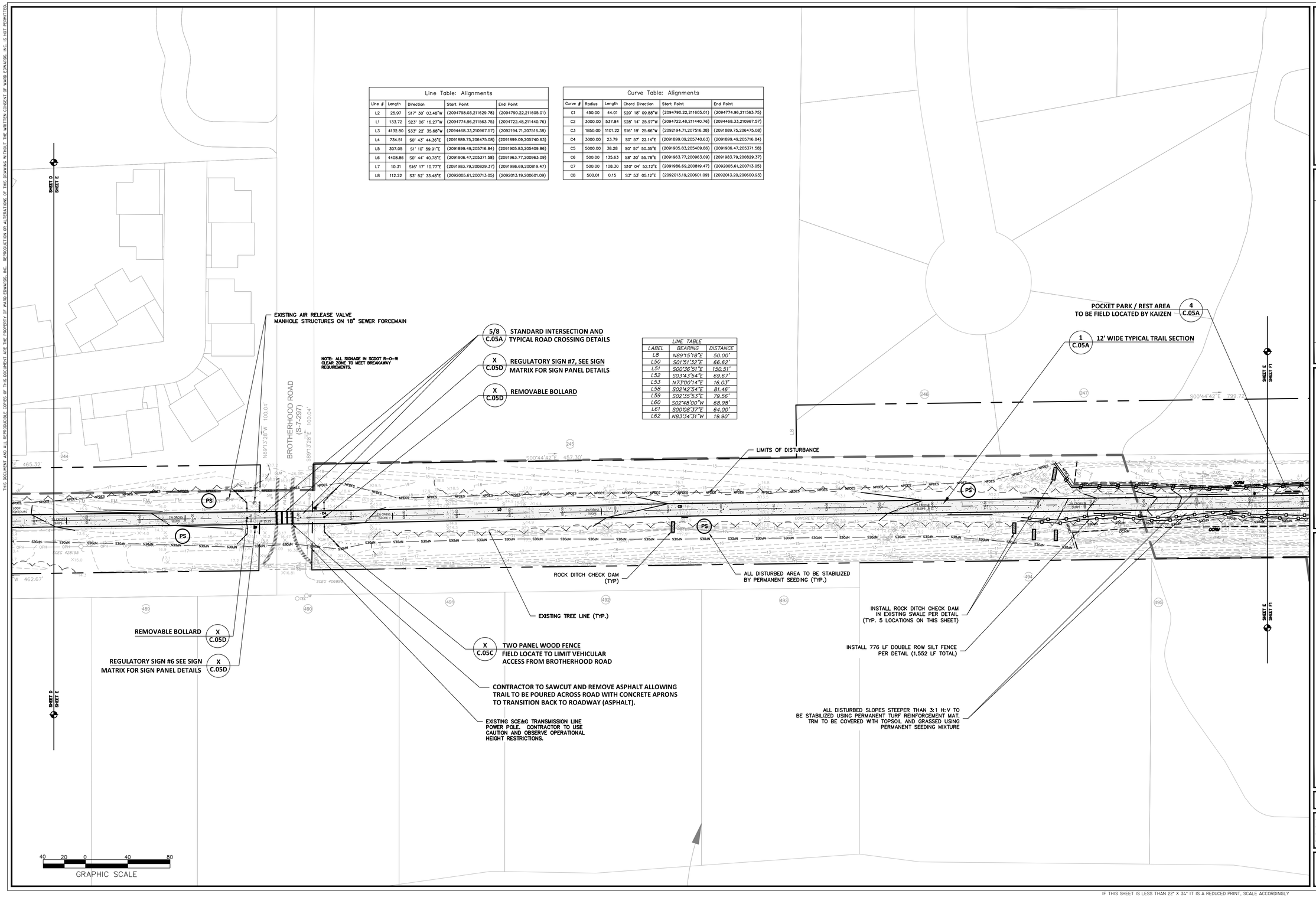

LINE TABLE		
LABEL	BEARING	DISTANCE
L8	N89°15'18"E	50.00'
L50	S01°51'32"E	66.62'
L51	S00°36'51"E	150.51'
L52	S03°43'54"E	69.67'
L53	N73°00'14"E	16.03'
L58	S02°42'54"E	81.46'
L59	S02°35'53"E	79.56'
L60	S02°48'00"W	68.98'
L61	S00°08'37"E	64.00'
L62	N83°34'31"W	19.90'

SOUTH CAROLINA PROFESSIONAL ENGINEER PAUL R. MOORE No. 22816 LICENSED

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
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Ward Edwards ENGINEERING
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WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3

BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

LAYOUT, GRADING & DRAINAGE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=40'

SHEET
C.04E

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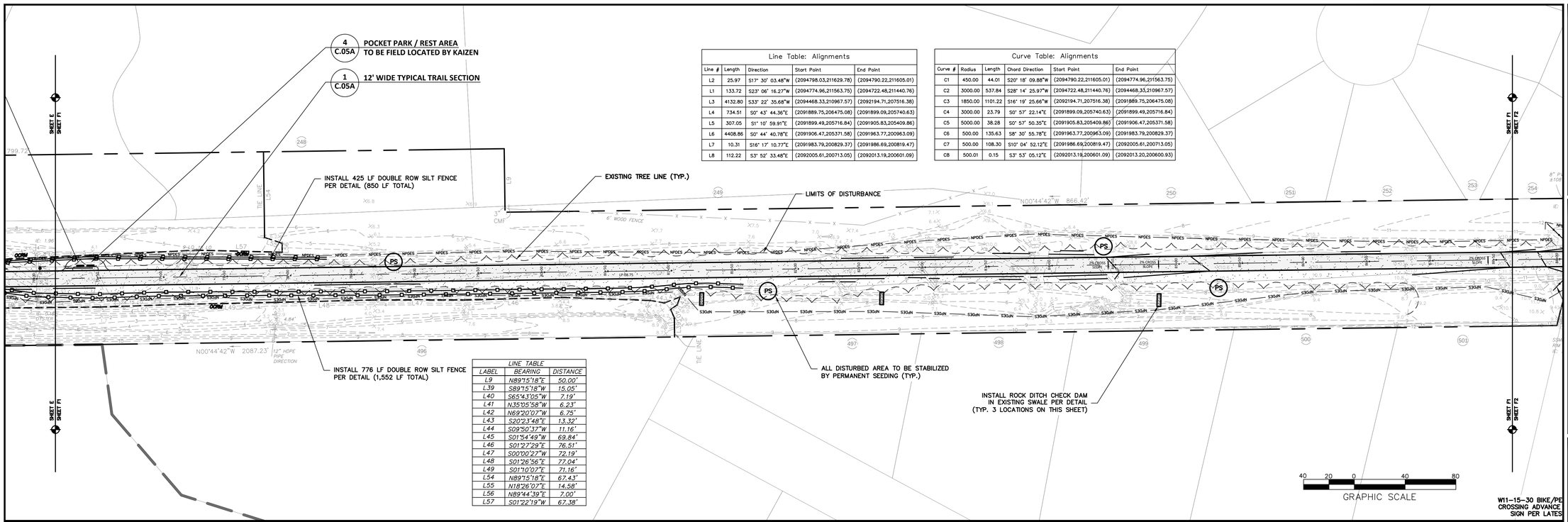
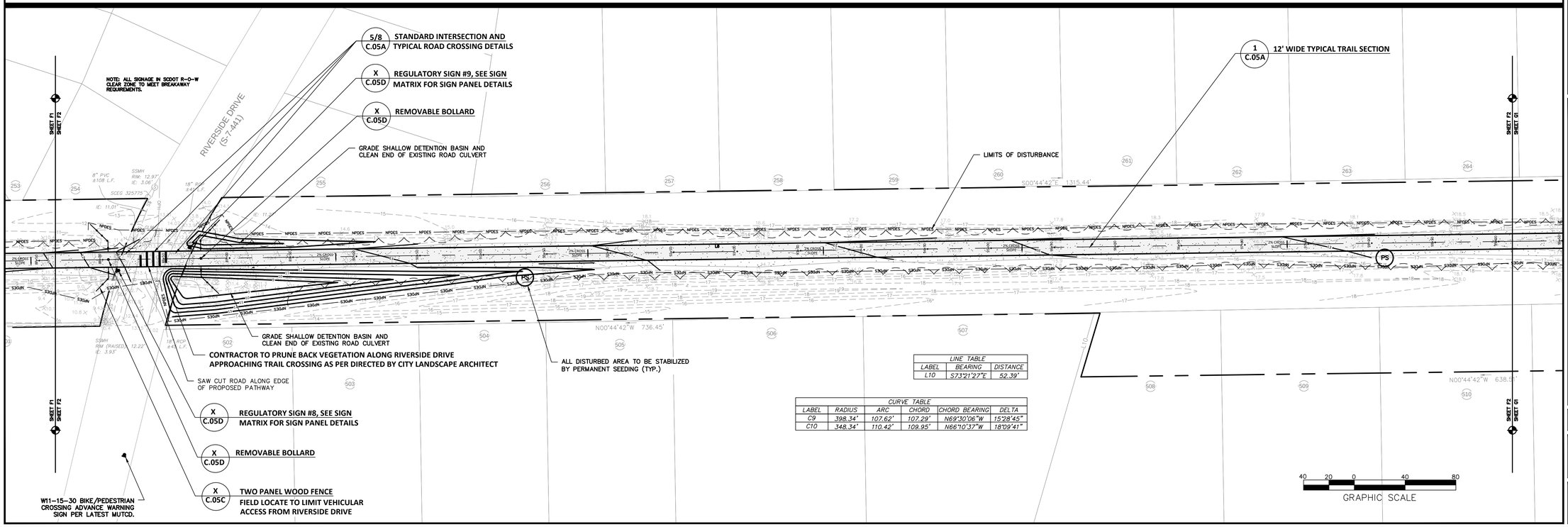


Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	25.97	S17° 30' 03.48"W	(2094798.03,211629.78)	(2094790.22,211605.01)
L1	133.72	S23° 06' 16.27"W	(2094774.96,211563.75)	(2094722.48,211440.76)
L3	4132.80	S33° 22' 35.68"W	(2094468.33,210967.57)	(2092194.71,207516.38)
L4	734.51	S0° 43' 44.36"E	(2091889.75,206475.08)	(2091899.09,205740.63)
L5	307.05	S1° 10' 59.91"E	(2091899.49,205716.84)	(2091905.83,205409.86)
L6	4408.86	S0° 44' 40.78"E	(2091906.47,205371.58)	(2091963.77,200963.09)
L7	10.31	S16° 17' 10.77"E	(2091983.79,200829.37)	(2091986.69,200819.47)
L8	112.22	S3° 52' 33.48"E	(2092005.61,200713.05)	(2092013.19,200601.09)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	450.00	44.01	S20° 18' 09.88"W	(2094790.22,211605.01)	(2094774.96,211563.75)
C2	3000.00	537.84	S28° 14' 25.97"W	(2094722.48,211440.76)	(2094468.33,210967.57)
C3	1850.00	1101.22	S16° 19' 25.66"W	(2092194.71,207516.38)	(2091889.75,206475.08)
C4	3000.00	23.79	S0° 57' 22.14"E	(2091899.09,205740.63)	(2091899.49,205716.84)
C5	5000.00	38.28	S0° 57' 50.35"E	(2091905.83,205409.86)	(2091906.47,205371.58)
C6	500.00	135.63	S8° 30' 55.78"E	(2091963.77,200963.09)	(2091983.79,200829.37)
C7	500.00	108.30	S10° 04' 52.12"E	(2091986.69,200819.47)	(2092005.61,200713.05)
C8	500.01	0.15	S3° 53' 05.12"E	(2092013.19,200601.09)	(2092013.20,200600.93)

LINE TABLE		
LABEL	BEARING	DISTANCE
L9	N89°15'18"E	50.00'
L39	S89°15'18"W	15.05'
L40	S65°43'05"W	7.19'
L41	N35°05'58"W	6.23'
L42	N69°20'07"W	6.75'
L43	S20°23'48"E	13.32'
L44	S09°50'37"W	11.16'
L45	S01°54'49"W	69.84'
L46	S01°27'29"E	76.51'
L47	S00°00'27"W	72.19'
L48	S01°26'56"E	77.04'
L49	S01°10'07"E	71.16'
L54	N89°15'18"E	67.43'
L55	N18°26'07"E	14.58'
L56	N89°44'39"E	7.00'
L57	S01°22'19"W	67.38'



LINE TABLE		
LABEL	BEARING	DISTANCE
L10	S73°21'27"E	52.39'

CURVE TABLE					
LABEL	RADIUS	ARC	CHORD	CHORD BEARING	DELTA
C9	398.34'	107.62'	107.29'	N69°30'06"W	15°28'45"
C10	348.34'	110.42'	109.95'	N66°10'37"W	18°09'41"

W11-15-30 BIKE/PE CROSSING ADVANCE SIGN PER LATES

SOUTH CAROLINA PROFESSIONAL ENGINEER 22816 PAUL R. MOORE LICENSED 12/31/14

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
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SPANISH MOSS TRAIL - PHASE 3

BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

LAYOUT, GRADING & DRAINAGE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=40'

SHEET
C.04F

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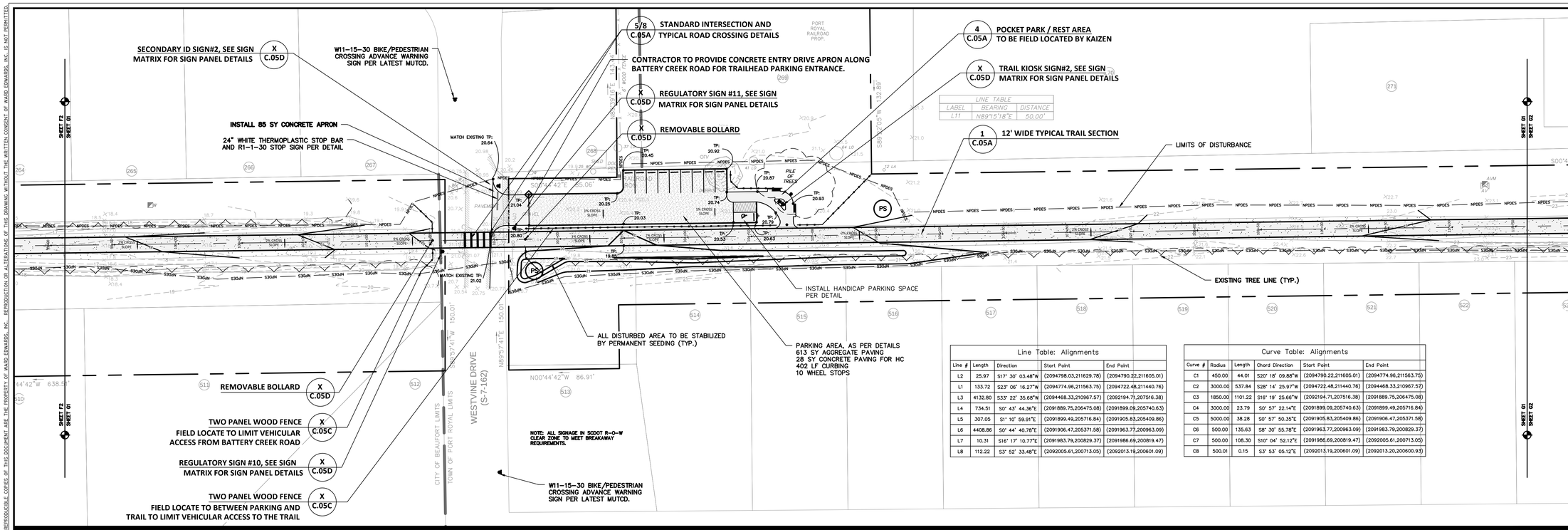

LINE TABLE		
LABEL	BEARING	DISTANCE
L11	N89°15'18"E	50.00'

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	25.97	S17° 30' 03.48"W	(2094798.03,211629.78)	(2094790.22,211605.01)
L1	133.72	S23° 06' 16.27"W	(2094774.96,211563.75)	(2094722.48,211440.76)
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Curve Table: Alignments					
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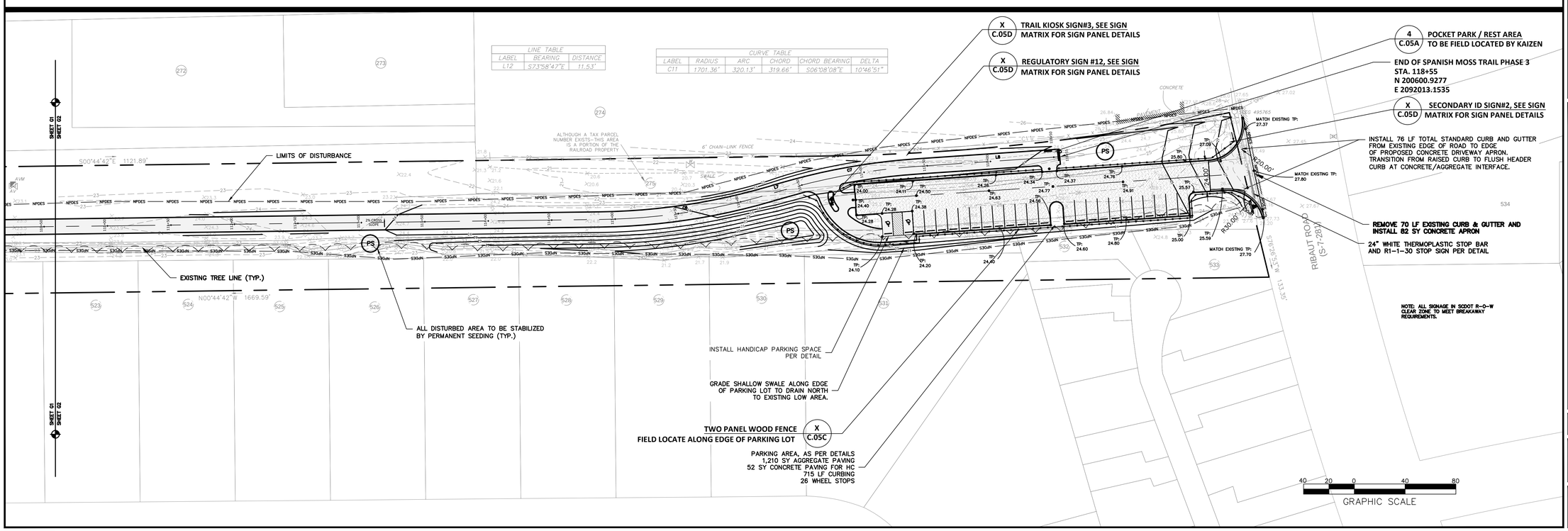

LINE TABLE		
LABEL	BEARING	DISTANCE
L12	S73°58'47"E	11.53'

CURVE TABLE					
LABEL	RADIUS	ARC	CHORD	CHORD BEARING	DELTA
C11	1701.36'	320.13'	319.66'	S06°08'08"E	10°46'51"

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SPANISH MOSS TRAIL - PHASE 3

BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

LAYOUT, GRADING & DRAINAGE PLAN

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	II0288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=40'

SHEET
C.04G

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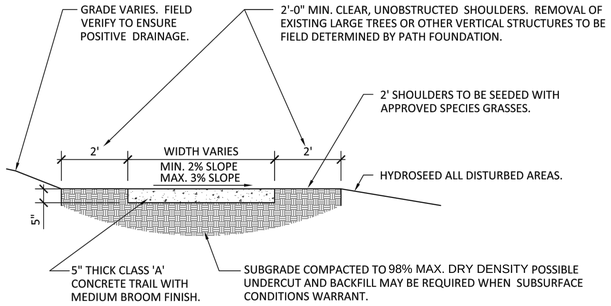
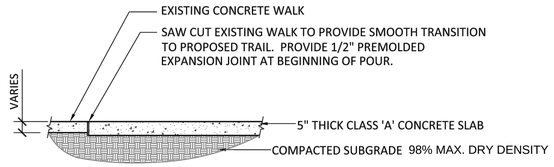


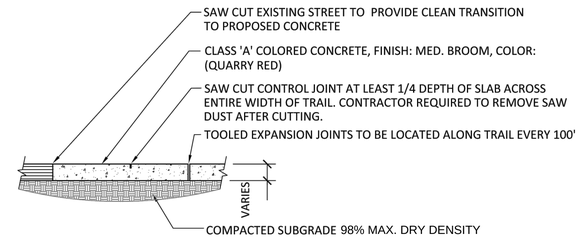
SEE PLANS — PATH TRAIL TYPICAL SECTION

SCALE: 1/2" = 1'-0"



SEE PLANS — EXISTING WALK/PATH TRAIL TRANSITION

SCALE: 1/2" = 1'-0"

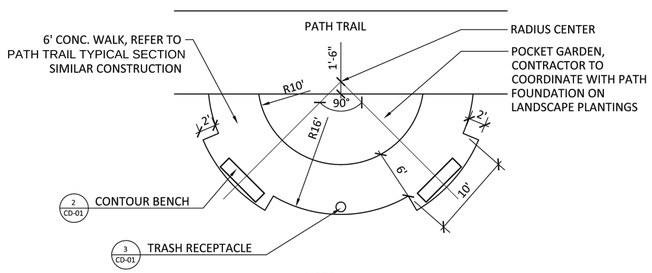


NOTE:

CONTROL JOINTS SHALL OCCUR AT INTERVALS EQUAL TO WIDTH OF THE TRAIL (MAX. 12') OR AS INDICATED ON DRAWINGS.

SEE PLANS — STREET/TRAIL TRANSITION

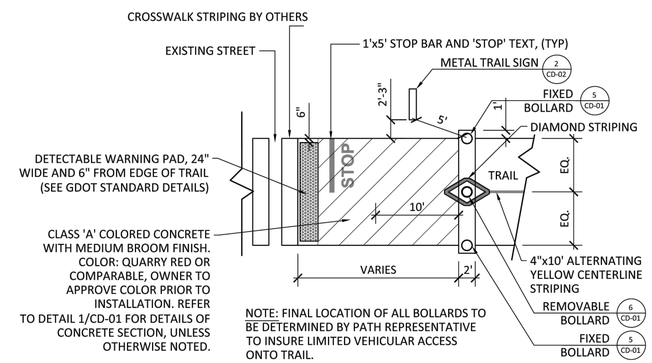
SCALE: 1/2" = 1'-0"



NOTE:
ALL PATH REST AREAS TO BE FIELD LOCATED BY PATH FOUNDATION. REFER TO PLANS FOR GENERAL LOCATION.

SEE PLANS — POCKET PARK

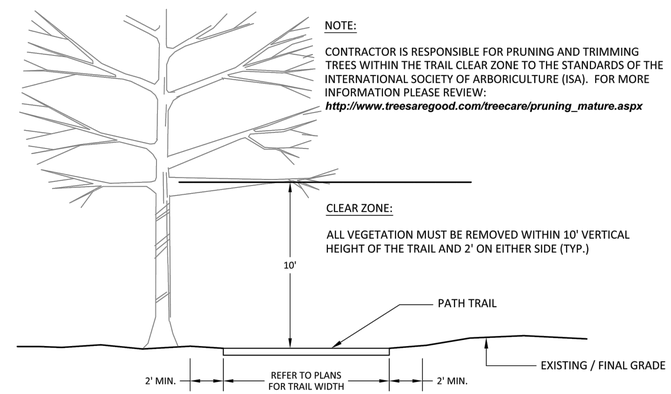
SCALE: 1/8" = 1'-0"



NOTE: FINAL LOCATION OF ALL BOLLARDS TO BE DETERMINED BY PATH REPRESENTATIVE TO INSURE LIMITED VEHICULAR ACCESS ONTO TRAIL.

SEE PLANS — STANDARD INTERSECTION: PLAN VIEW

SCALE: 1/8" = 1'-0"



NOTE:

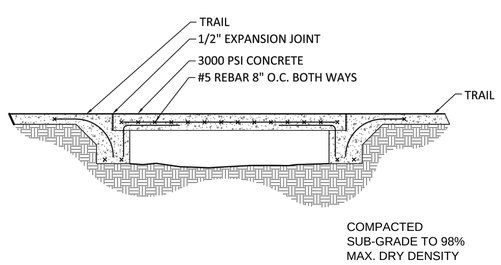
CONTRACTOR IS RESPONSIBLE FOR PRUNING AND TRIMMING TREES WITHIN THE TRAIL CLEAR ZONE TO THE STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). FOR MORE INFORMATION PLEASE REVIEW:
http://www.treesaregood.com/treecare/pruning_mature.aspx

CLEAR ZONE:

ALL VEGETATION MUST BE REMOVED WITHIN 10' VERTICAL HEIGHT OF THE TRAIL AND 2' ON EITHER SIDE (TYP.)

SEE PLANS — CLEAR ZONE

SCALE: 1/4" = 1'-0"



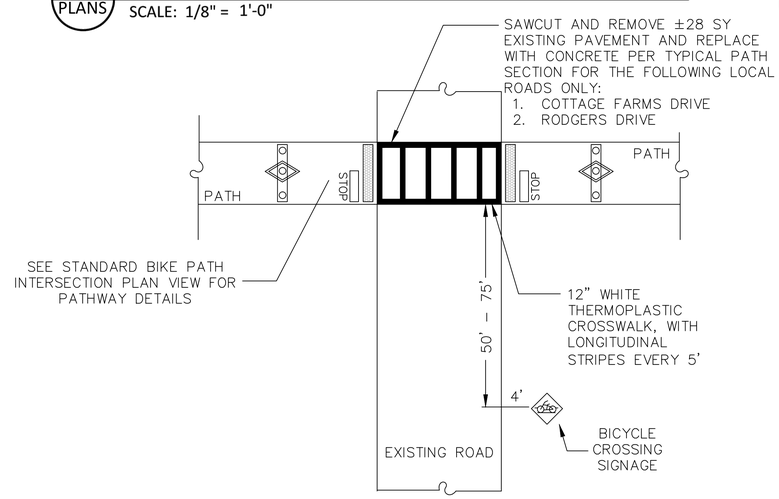
NOTES:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS COMPLETED BY A LICENSED STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION, FOR APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.

2. TOTAL HEIGHT FROM TOP OF TRAIL SURFACE TO LOW POINT OF SWALE IS NOT TO EXCEED 30".

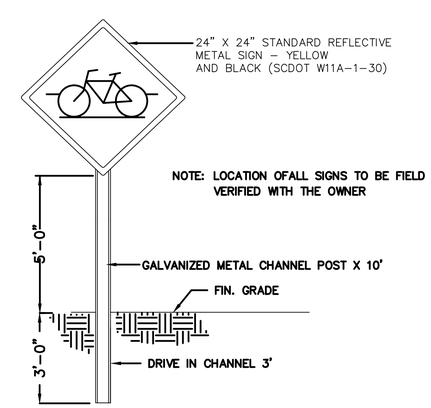
SEE PLANS — STRUCTURAL SLAB CROSSING

SCALE: 3/8" = 1'-0"



TYPICAL ROAD CROSSING DETAIL

NOT TO SCALE



SIGNAGE - BICYCLE CROSSING

NOT TO SCALE

NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		
7		

PLAN REVISIONS

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
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WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA
PATH Foundation
Atlanta, Georgia

CONSTRUCTION DETAILS

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=60'

SHEET
C.05A

IF THIS SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY

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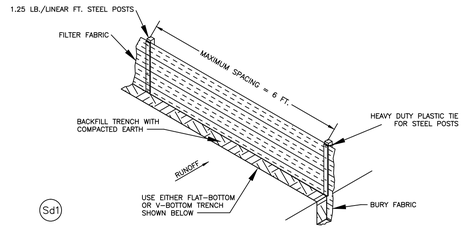
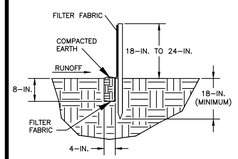
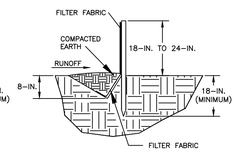


SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



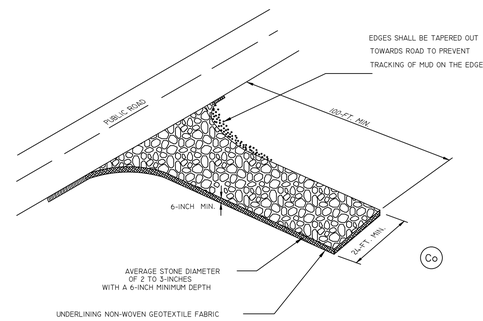
V-SHAPED TRENCH DETAIL

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE



INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

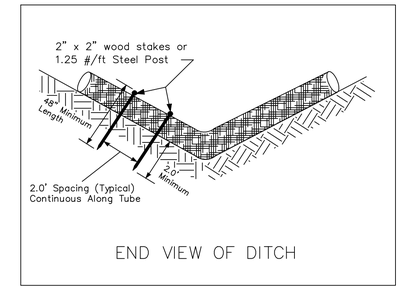
DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.

South Carolina Department of Health and Environmental Control

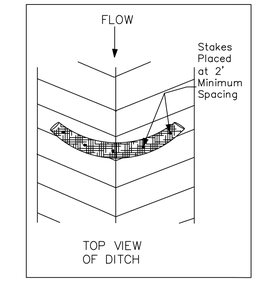
STABILIZED CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 Page 1 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE



END VIEW OF DITCH



TOP VIEW OF DITCH

South Carolina Department of Health and Environmental Control

SEDIMENT TUBE

STANDARD DRAWING NO. SC-05 Page 1 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE

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%).
Have a soil stabilization plate with a minimum cross section area of 17-square inches attached to the steel posts.
Painted with a water based baked enamel paint.

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 retain 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 SCDOT Approval Sheet #34 meeting the requirements of the most current edition of the SCDOT Standard Specifications for Highway Construction.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 2 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE

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 offsite. 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.

South Carolina Department of Health and Environmental Control

STABILIZED CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 Page 2 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE

SEDIMENT TUBE

Description
Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber or hardwood mulch. Straw, pine needle and leaf mulch-filled sediment tubes are not permitted under this specification.
When and Where to Use It:
Install sediment tubes along contours, in drainage conveyance swales, and around inlets to help reduce the effects of soil erosion by energy dissipation and retain sediment.
Materials
Sediment tubes for ditch checks and Type A Inlet Structure Filters exhibit the following properties:
Produced by a Manufacturer experienced in sediment tube manufacturing.
Composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, hardwood mulch or a mix of these materials enclosed by a flexible netting material. Straw, straw fiber, straw bales, pine needles and leaf mulch are not allowed under this specification. Utilizes outer netting that consists of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable materials. Diameter ranging from 18-inches to 24-inches.
Curled excelsior wood, or natural coconut rolled erosion control products (RECPs) that are rolled up to create a sediment tube are not allowed under this specification.
Installation:
Install over bare soil, mulched areas or erosion control blankets.
Be composed of geotextiles, curled excelsior wood, natural coconut fiber or hardwood mulch enclosed by a flexible netting material.
Straw, straw fiber, straw bales, pine needles and leaf mulch are not allowed.

The minimum diameter should be 18 inches.
Sediment tubes should be staked using wooden stakes (2-inch x 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) a minimum of 48-inches in length placed on 2-foot centers.

Stakes should be intertwined with the outer mesh on the downstream side and driven in the ground to a minimum depth of 1.5 feet leaving less than 1 foot of stake exposed above the sediment tube. Always refer to the Manufacturer's recommendations for the staking detail, Install all sediment tubes insuring that no gaps exist between the soil and the bottom of the sediment tube. The ends of adjacent sediment tubes should be lapped 6-inch to prevent flow and sediment from passing through the field joint.In no situations should sediment tubes be stacked on top of one another.

Constuct a trench that is 20% of the tube diamater to intall the tube in.
Avoid damage to sediment tubes while installing them. If the sediment tube becomes damaged during installation, a stake should be placed on both sides of the damaged area terminating the tube segment and a new tube segment should be installed.Should be installed in swales or drainage ditches perpendicular to the flow of water. Sediment tubes should continue up the side slopes a minimum of 1 foot above the design flow depth.
Sediment tubes should be spaced according to the following table.

SEDIMENT TUBE SPACING

SLOPE	MAXIMUM SEDIMENT TUB SPACING
LESS THAN 2%	150-FEET
2%	150-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
8%	30-FEET
GREATER THAN 8%	25-FEET

South Carolina Department of Health and Environmental Control

SEDIMENT TUBE

STANDARD DRAWING NO. SC-05 Page 2 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE

SILT FENCE DETAIL

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 1½-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 call 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 willremain 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 ½-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.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 3 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE

STABILIZED CONSTRUCTION ENTRANCE

Inspection and Maintenance:

Inspect construction entrances every seven (7) calendar days and within 24-hours after each rainfall event that produces ½-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.

South Carolina Department of Health and Environmental Control

STABILIZED CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 Page 3 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE

SEDIMENT TUBE

SEDIMENT TUBE LENGTH SELECTED SHOULD
MINIMIZE THE NUMBER OF SEDIMENT TUBES NEEDED TO SPAN THE WIDTH OF THE DRAINAGE CONVEYANCE.
IF THE DITCH CHECK LENGTH (PERPENDICULAR TO THE WATER FLOW) IS 15 FEET, THEN ONE 15 FOOT SEDIMENT TUBE IS PREFERRED COMPARED TO TWO OVERLAPPING 10 FOOT SEDIMENT TUBES.

SEDIMENT TUBES FOR DITCH CHECKS SHOULD REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

Inspection and Maintenance:

Check dams should be inspected every 7 calendar days and within 24-hours after each storm that produces ½-inches or more of rain to ensure continued effectiveness.

Large debris, trash, and leaves should be removed.

If erosion causes the edges to fall to a height equal to or below the height of the center, repairs should be made immediately.

Remove accumulated sediment from the upstream side of the sediment tube when the sediment has reached a height of approximately one-third of the exposed height of the tube (measured at the center).

Accumulated sediment should be removed prior to removing sediment tubes.

Sediment Tube removal should be completed only after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which gravel, stone, sediment tubes, or other materials have been removed.

South Carolina Department of Health and Environmental Control

SEDIMENT TUBE

STANDARD DRAWING NO. SC-05 Page 3 of 3

APPROVED BY: SCDHEC AUGUST, 2005 DATE

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22816 LICENSED PAUL R. MOORE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

NO.	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1		

PLAN REVISIONS

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA
PATH Foundation
Atlanta, Georgia

CONSTRUCTION DETAILS

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=60'

SHEET
C.05B

IF THIS SHEET IS LESS THAN 22 X 34 IT IS A REDUCED PRINT. SCALE ACCORDINGLY

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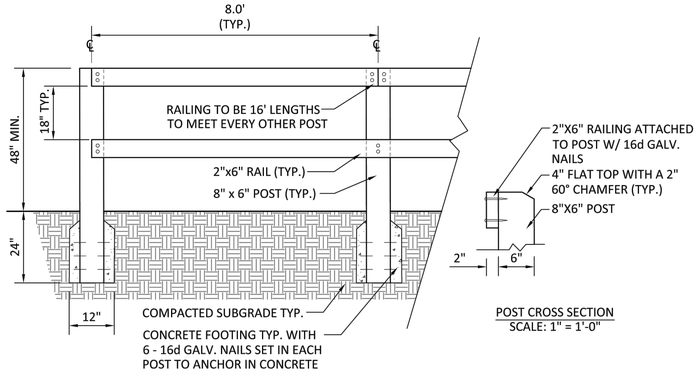


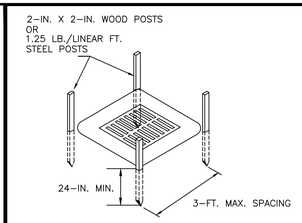
POST CROSS SECTION
SCALE: 1" = 1'-0"

NOTES:
1. FENCE TO BE CONSTRUCTED WITH PRESSURE TREATED WOOD.
2. REFER TO CONSTRUCTION PLANS FOR FENCE LOCATIONS.

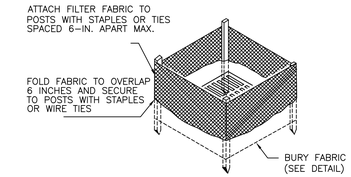
SEE PANS

2 PANEL WOOD FENCE

SCALE: 1/2" = 1'-0"

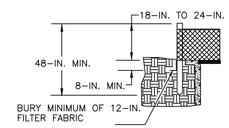


POST INSTALLATION DETAIL



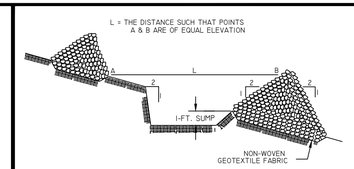
Sd2

FILTER FABRIC INSTALLATION DETAIL

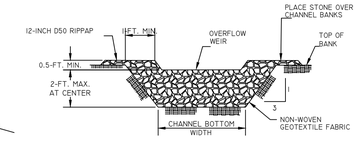


FILTER FABRIC BURIAL DETAIL

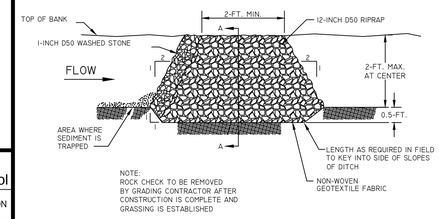
South Carolina Department of Health and Environmental Control
TYPE A – FILTER FABIC INLET PROTECTION
STANDARD DRAWING NO. SC-07 Page 1 of 2
APPROVED BY: SCDHEC AUGUST, 2005 DATE



SPACING BETWEEN DITCH CHECK



CROSS SECTION A-A THRU STONE DITCH CHECK



TYPICAL DITCH CHECK SECTION

South Carolina Department of Health and Environmental Control
ROCK DITCH CHECK
STANDARD DRAWING NO. SC-04 Page 1 of 2
APPROVED BY: SCDHEC AUGUST, 2005 DATE

FILTER FABRIC INLET PROTECTION

Materials:
Use filter fabric that conforms to SCDOT 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.
Weigh 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 ½-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.

South Carolina Department of Health and Environmental Control
Type A
FILTER FABIC INLET PROTECTION
STANDARD DRAWING NO. SC-07 Page 2 of 2
APPROVED BY: SCDHEC AUGUST, 2005 DATE

ROCK DITCH CHECK

When and Where to Use It

A rock ditch check should be installed in steeply sloped swales, or in swales where adequate vegetation cannot be established. Rock ditch checks should be used only in small open channels. Rock ditch checks should not be placed in waters of the commonwealth or USGS blue-line streams (unless approved by SCDHEC or Federal authorities).

Installation:

A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.

The body of the rock ditch check shall be composed of 12-inch D50 Riprap.

The upstream face of the rock ditch check may be composed of 1-inch D50 washed stone.

Rock ditch checks should not exceed a height of 2-feet at the centerline of the channel.

Rock ditch checks should have a minimum top flow length of 2-feet.

Stone should be placed over the channel banks to prevent water from cutting around the ditch check.

The rock must be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the ditch or swale and to ensure that the center of the check is lower than the edges.

The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

Inspection and Maintenance:

Inspect rock ditch checks every seven (7) calendar days and within 24-hours after each rainfall event that produces ½-inches or more of precipitation. Inspect for sediment and debris accumulation. Inspect ditch check edges for erosion and repair promptly as required.

Sediment should be removed when it reaches 1/3 the original check height.

In the case of grass-lined ditches and swales, rock ditch checks should be removed when the grass has matured sufficiently
to protect the ditch or swale unless the slope of the swale is greater than 4%.

After construction is complete, all stone should be removed by the grading contractor if vegetation will be used for permanent erosion control measures.

The area beneath the rock ditch checks should be seeded and mulched immediately after rock check dam removal.

South Carolina Department of Health and Environmental Control
ROCK DITCH CHECK
STANDARD DRAWING NO. SC-04 Page 2 of 2
APPROVED BY: SCDHEC AUGUST, 2005 DATE

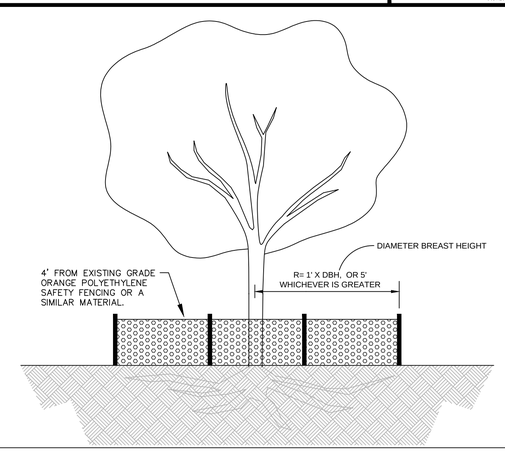
PERMANENT SEEDING – COASTAL

SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET BAHIAGRASS	10 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC												
BROWNTOP MILLET ATLANTIC COASTAL PANICGRASS	10 LBS/AC 15 LBS/AC PLS												
BROWNTOP MILLET SWITCHGRASS (ALAMO) LITTLE BLUESTEM SERICEA LESPEDEZA	10 LBS/AC 8 LBS/AC PLS 4 LBS/AC 20 LBS/AC												
BROWNTOP MILLET WEEPING LOVEGRASS	10 LBS/AC 8 LBS/AC												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET BAHIAGRASS	10 LBS/AC 40 LBS/AC												
RYE, GRAIN BAHIAGRASS CLOVER, CRIMSON (ANNUAL)	10 LBS/AC 40 LBS/AC 5 LBS/AC												
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 10 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BERMUDA, COMMON KOBE LESPEDEZA (ANNUAL)	10 LBS/AC 12 LBS/AC 10 LBS/AC												
BROWNTOP MILLET BAHIAGRASS BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 20 LBS/AC 6 LBS/AC 40 LBS/AC												
BROWNTOP MILLET SWITCHGRASS LITTLE BLUESTEM INDIANGRASS	10 LBS/AC 8 LBS/AC PLS 3 LBS/AC PLS 3 LBS/AC PLS												

PS

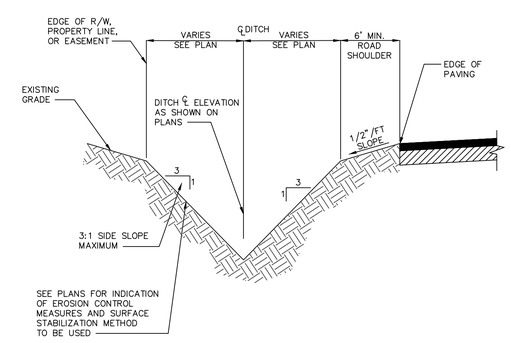
PERMANENT SEEDING - COASTAL

DETAIL 02370-010



TREE PROTECTION DETAIL

DETAIL #02915-008



TYPICAL V-SHAPED DITCH CROSS SECTION

DETAIL 02630-024

NO.	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1	PLAN REVISIONS	

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22816 LICENSED PAUL R. MOORE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION WARD EDWARDS, INC. No. C00152

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-5558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA
PATH Foundation
Atlanta, Georgia

CONSTRUCTION DETAILS

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=60'

SHEET
C.05C

IF THIS SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY

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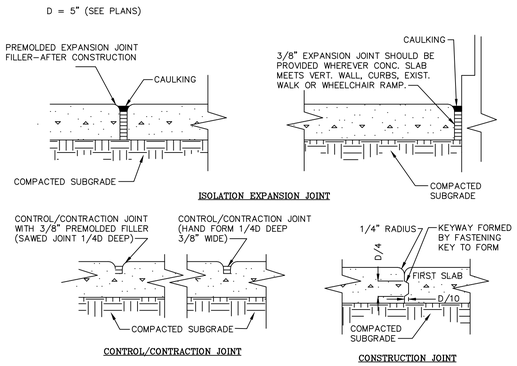
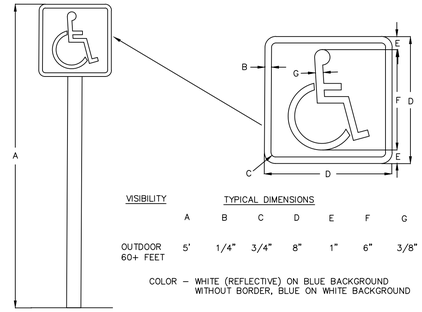


CONCRETE JOINTS

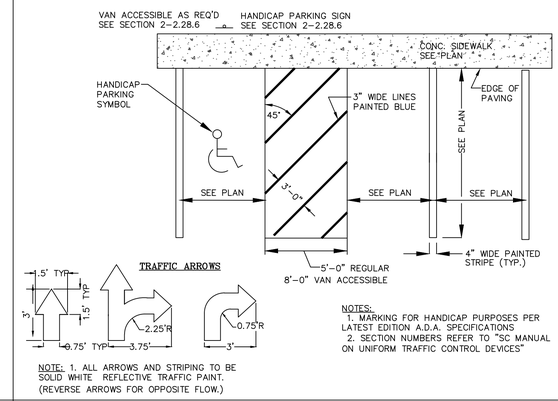


VISIBILITY — TYPICAL DIMENSIONS

	A	B	C	D	E	F	G
OUTDOOR 60+ FEET	5'	1/4"	3/4"	8"	1"	6"	3/8"

COLOR – WHITE (REFLECTIVE) ON BLUE BACKGROUND WITHOUT BORDER, BLUE ON WHITE BACKGROUND

HANDICAP PARKING SIGN

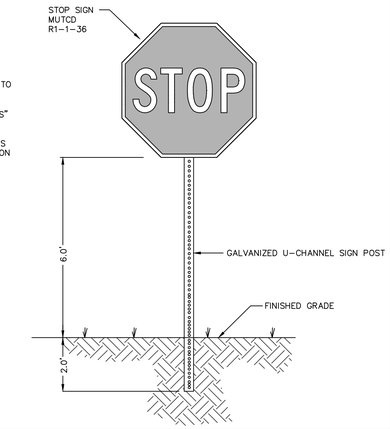


NOTES:
1. MARKING FOR HANDICAP PURPOSES PER LATEST EDITION A.D.A. SPECIFICATIONS
2. SECTION NUMBERS REFER TO "SC MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"

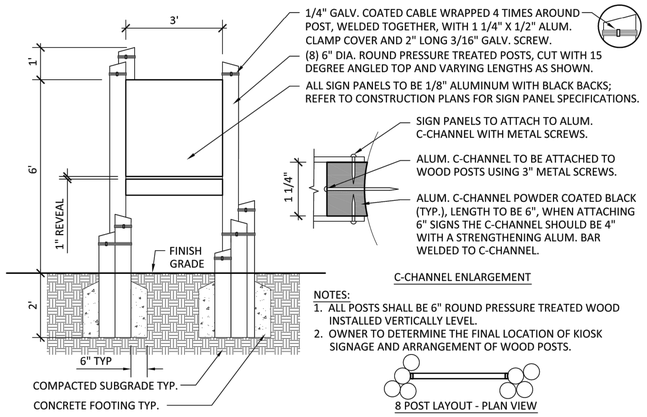
NOTE: 1. ALL ARROWS AND STRIPING TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT. (REVERSE ARROWS FOR OPPOSITE FLOW.)

PARKING SPACE STRIPING

NOTE:
ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (LATEST EDITION) AND THE DEPARTMENT OF TRANSPORTATION STANDARDS AT THE LOCATIONS SHOWN ON THE PLANS.



STOP SIGN

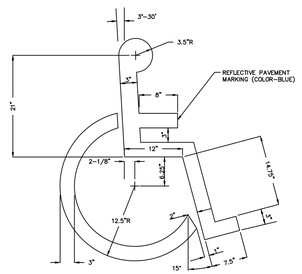


NOTES:
1. ALL POSTS SHALL BE 6" ROUND PRESSURE TREATED WOOD INSTALLED VERTICALLY LEVEL.
2. OWNER TO DETERMINE THE FINAL LOCATION OF KIOSK SIGNAGE AND ARRANGEMENT OF WOOD POSTS.

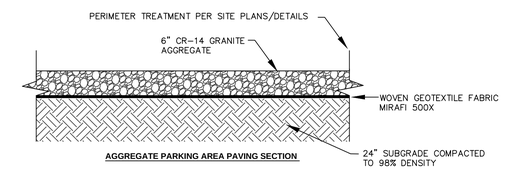
SEE PLANS

SPANISH MOSS TRAIL KIOSK SIGN

SCALE: 1/2" = 1'-0"

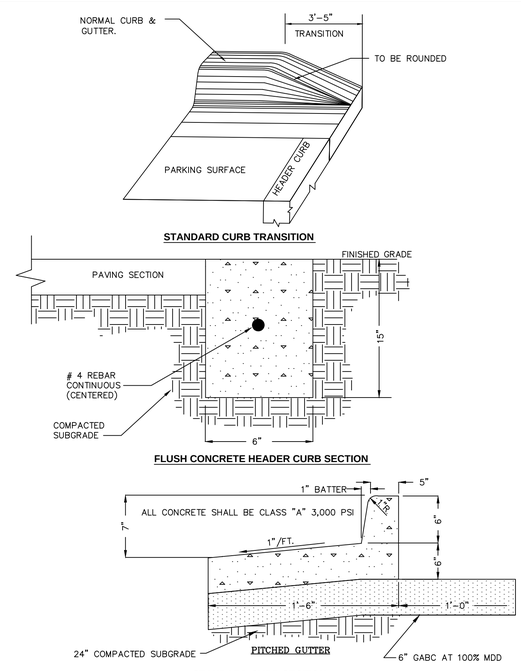


HANDICAP PARKING SYMBOL

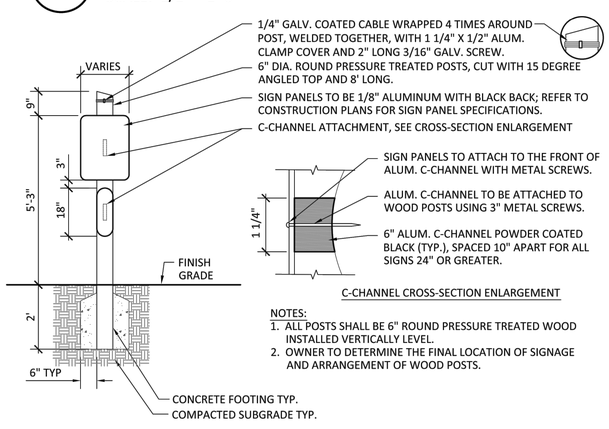


AGGREGATE PARKING AREA PAVING SECTION

PARKING AREA PAVING DETAILS



PARKING AREA CONCRETE DETAILS

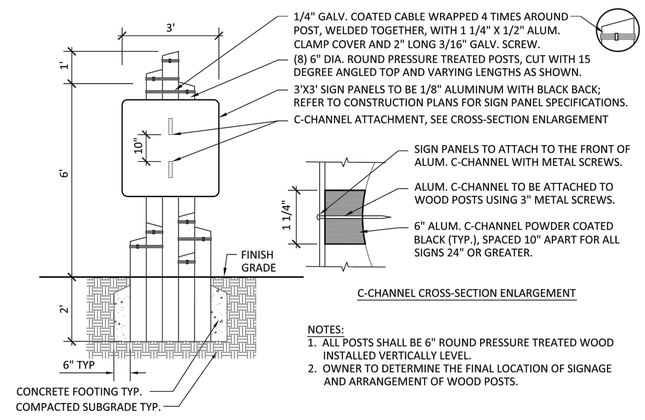


NOTES:
1. ALL POSTS SHALL BE 6" ROUND PRESSURE TREATED WOOD INSTALLED VERTICALLY LEVEL.
2. OWNER TO DETERMINE THE FINAL LOCATION OF SIGNAGE AND ARRANGEMENT OF WOOD POSTS.

SEE PLANS

SPANISH MOSS TRAIL REGULATORY SIGN

SCALE: 1/2" = 1'-0"



NOTES:
1. ALL POSTS SHALL BE 6" ROUND PRESSURE TREATED WOOD INSTALLED VERTICALLY LEVEL.
2. OWNER TO DETERMINE THE FINAL LOCATION OF SIGNAGE AND ARRANGEMENT OF WOOD POSTS.

SEE PLANS

SPANISH MOSS TRAIL SECONDARY I.D. SIGN

SCALE: 1/2" = 1'-0"

NO.	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1	PLAN REVISIONS	

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA
PATH Foundation
Atlanta, Georgia
CONSTRUCTION DETAILS

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	II0288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=60'

SHEET
C.05D

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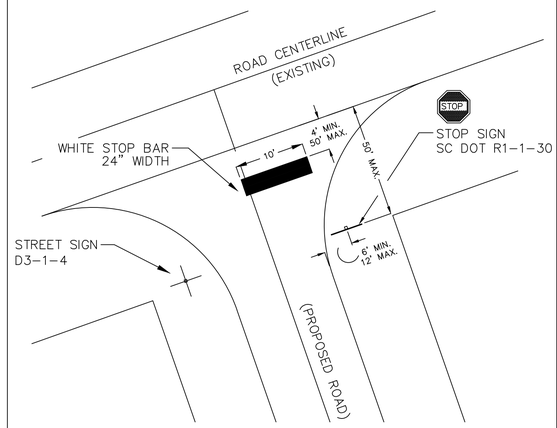
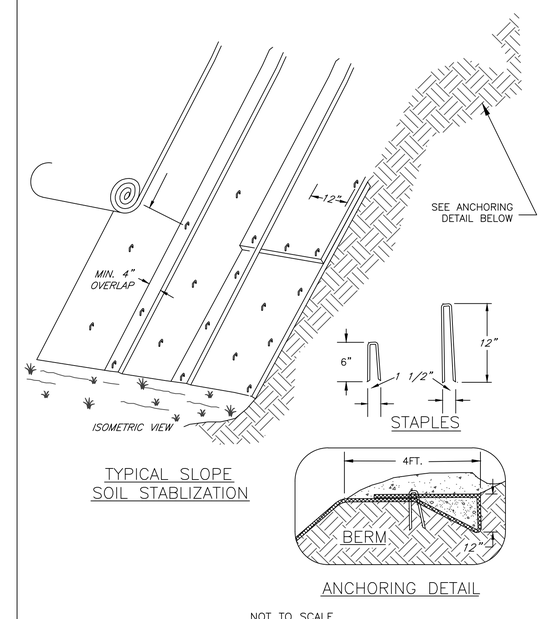


TYPICAL STOP SIGN & STOP BAR STRIPING AT INTERSECTION

DETAIL #02740-018



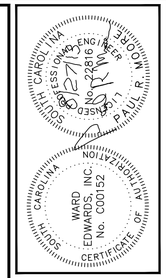
TYPICAL SLOPE
SOIL STABLIZATION

ANCHORING DETAIL

NOT TO SCALE

EROSION CONTROL – TURF MAT

EROSION BLANKETS
SLOPE INSTALLATION



NO.	DESCRIPTION	DATE
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PLAN REVISIONS

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SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA

PATH Foundation
Atlanta, Georgia

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PROJECT #:	110288C
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CHECKED BY:	PRM
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SPANISH MOSS TRAIL PHASE 3 - SIGN MATRIX

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 4.10 km 6.59 Elevation 14.0
PC 4-1
Regulatory Sign #1 - Front

STOP R1-1
ALLISON ROAD
PC 2-6
Spanish Moss Trail Mile 4.10 km 6.60 Elevation 14.0
PC 4-1
Regulatory Sign #1 - Back

STOP R1-1
ROGERS DRIVE
PC 2-6
Spanish Moss Trail Mile 3.55 km 5.68 Elevation 16.0
PC 4-1
Regulatory Sign #2 - Front

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 3.55 km 5.68 Elevation 16.0
PC 4-1
Regulatory Sign #2 - Back

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 3.54 km 5.69 Elevation 15.0
PC 4-1
Regulatory Sign #3 - Front

STOP R1-1
ROGERS DRIVE
PC 2-6
Spanish Moss Trail Mile 3.54 km 5.69 Elevation 15.0
PC 4-1
Regulatory Sign #3 - Back

STOP R1-1
BROOME LANE
PC 2-6
Spanish Moss Trail Mile 3.21 km 5.14 Elevation 16.0
PC 4-1
Regulatory Sign #4 - Front

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 3.21 km 5.14 Elevation 16.0
PC 4-1
Regulatory Sign #4 - Back

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 3.20 km 5.14 Elevation 16.0
PC 4-1
Regulatory Sign #5 - Front

STOP R1-1
BROOME LANE
PC 2-6
Spanish Moss Trail Mile 3.20 km 5.14 Elevation 16.0
PC 4-1
Regulatory Sign #5 - Back

STOP R1-1
BROTHERHOOD RD
PC 2-6
Spanish Moss Trail Mile 2.84 km 4.59 Elevation 17.0
PC 4-1
Regulatory Sign #6 - Front

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 2.84 km 4.59 Elevation 17.0
PC 4-1
Regulatory Sign #6 - Back

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 2.83 km 4.54 Elevation 17.0
PC 4-1
Regulatory Sign #7 - Front

STOP R1-1
BROTHERHOOD RD
PC 2-6
Spanish Moss Trail Mile 2.83 km 4.54 Elevation 17.0
PC 4-1
Regulatory Sign #7 - Back

STOP R1-1
RIVERSIDE DRIVE
PC 2-6
Spanish Moss Trail Mile 2.43 km 3.89 Elevation 12.0
PC 4-1
Regulatory Sign #8 - Front

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 2.43 km 3.89 Elevation 12.0
PC 4-1
Regulatory Sign #8 - Bacl

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 2.42 km 3.88 Elevation 12.0
PC 4-1
Regulatory Sign #9 - Front

STOP R1-1
RIVERSIDE DRIVE
PC 2-6
Spanish Moss Trail Mile 2.42 km 3.88 Elevation 12.0
PC 4-1
Regulatory Sign #9 - Back

STOP R1-1
BATTERY CREEK ROAD
PC 2-6
Spanish Moss Trail Mile 2.16 km 3.46 Elevation 21.0
PC 4-1
Regulatory Sign #10 - Front

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 2.16 km 3.46 Elevation 21.0
PC 4-1
Regulatory Sign #10 - Back

CUSTOM 18" DIA. LOGO SIGN
NO MOTOR VEHICLES
MOTORIZED WHEELCHAIRS ARE PERMITTED
R5-3
Spanish Moss Trail Mile 2.15 km 3.45 Elevation 21.0
PC 4-1
Regulatory Sign #11 - Front

STOP R1-1
BATTERY CREEK ROAD
PC 2-6
Spanish Moss Trail Mile 2.15 km 3.45 Elevation 21.0
PC 4-1
Regulatory Sign #11 - Back

OPEN DAWN TO DUSK
PI 1-8
Spanish Moss Trail Mile 1.93 km 3.09 Elevation 24.0
PC 4-1
Regulatory Sign #12 - Front

OPEN DAWN TO DUSK
PI 1-8
Spanish Moss Trail Mile 1.93 km 3.09 Elevation 24.0
PC 4-1
Regulatory Sign #12 - Back

Help Build the
SPANISH MOSS TRAIL
This trail is being developed by a public/private partnership between local government and the Friends of the Spanish Moss Trail, a local non profit organization.
You can help build future segments of the trail by contributing to the **Friends of the Spanish Moss Trail** at:
www.SpanishMossTrail.org
Trailhead Kiosk Sign#1 - Front

SPANISH MOSS TRAIL
TRAIL RULES
- THE TRAIL IS OPEN TO ALL NON-MOTORIZED USERS. (MOTORIZED WHEELCHAIRS ARE PERMITTED)
- THE TRAIL IS OPEN FROM DAWN TO DUSK. THE TRAIL IS CLOSED AT NIGHT.
- TRAIL USERS MUST REFRAIN FROM ENTERING POSTED PRIVATE PROPERTY.
- ALCOHOLIC BEVERAGES, DRUGS, AND UNLICENSED FIRE ARMS ARE NOT ALLOWED ON THE TRAIL.
- VANDALISM AND THEFT OF TRAIL AMENITIES WILL RESULT IN PROSECUTION.
- RECKLESS USE OF A BICYCLE OR SKATES WHICH ENDANGERS OTHER TRAIL USERS IS PROHIBITED.
- AS A COURTESY TO OTHER TRAIL USERS, PLEASE REFRAIN FROM TOBACCO USE ALONG THE TRAIL.

Trailhead Kiosk Sign#1 - Back

SPANISH MOSS TRAIL
Broome Lane Trailhead
Secondary ID Sign#1 - One Panel Only

Help Build the
SPANISH MOSS TRAIL
This trail is being developed by a public/private partnership between local government and the Friends of the Spanish Moss Trail, a local non profit organization.
You can help build future segments of the trail by contributing to the **Friends of the Spanish Moss Trail** at:
www.SpanishMossTrail.org
Trailhead Kiosk Sign#2 - Front

SPANISH MOSS TRAIL
TRAIL RULES
- THE TRAIL IS OPEN TO ALL NON-MOTORIZED USERS. (MOTORIZED WHEELCHAIRS ARE PERMITTED)
- THE TRAIL IS OPEN FROM DAWN TO DUSK. THE TRAIL IS CLOSED AT NIGHT.
- TRAIL USERS MUST REFRAIN FROM ENTERING POSTED PRIVATE PROPERTY.
- ALCOHOLIC BEVERAGES, DRUGS, AND UNLICENSED FIRE ARMS ARE NOT ALLOWED ON THE TRAIL.
- VANDALISM AND THEFT OF TRAIL AMENITIES WILL RESULT IN PROSECUTION.
- RECKLESS USE OF A BICYCLE OR SKATES WHICH ENDANGERS OTHER TRAIL USERS IS PROHIBITED.
- AS A COURTESY TO OTHER TRAIL USERS, PLEASE REFRAIN FROM TOBACCO USE ALONG THE TRAIL.

Trailhead Kiosk Sign#2 - Back

SPANISH MOSS TRAIL
Battery Creek Road Trailhead
Secondary ID Sign#2 - One Panel Only

SPANISH MOSS TRAIL
A Recreational Trail System For Everyone
In the Spring of 2012, four organizations formed a partnership to build the first mile of the Spanish Moss Trail, a regional trail network based on the core alignment of the historic Magnolia Line Railroad. The rail corridor was provided through the generosity of the Beaufort Jasper Water and Sewer Authority. Funding for the first mile was donated by the James M. Cox Foundation. The group envisions a thirteen mile linear trail interconnected with other paths, city streets and country roads to form a network that will lead the wanderer to all of Northern Beaufort County's beautiful places.
Trailhead Kiosk Sign#3 - Front

SPANISH MOSS TRAIL
TRAIL RULES
- THE TRAIL IS OPEN TO ALL NON-MOTORIZED USERS. (MOTORIZED WHEELCHAIRS ARE PERMITTED)
- THE TRAIL IS OPEN FROM DAWN TO DUSK. THE TRAIL IS CLOSED AT NIGHT.
- TRAIL USERS MUST REFRAIN FROM ENTERING POSTED PRIVATE PROPERTY.
- ALCOHOLIC BEVERAGES, DRUGS, AND UNLICENSED FIRE ARMS ARE NOT ALLOWED ON THE TRAIL.
- VANDALISM AND THEFT OF TRAIL AMENITIES WILL RESULT IN PROSECUTION.
- RECKLESS USE OF A BICYCLE OR SKATES WHICH ENDANGERS OTHER TRAIL USERS IS PROHIBITED.
- AS A COURTESY TO OTHER TRAIL USERS, PLEASE REFRAIN FROM TOBACCO USE ALONG THE TRAIL.

Trailhead Kiosk Sign#3 - Back

SPANISH MOSS TRAIL
Ribaut Road Trailhead
Secondary ID Sign#3 - One Panel Only

MILE 4 6.4 km 13.1 elev
MILE 4 6.4 km 13.1 elev
MILE 3 4.8 km 15.3 elev
MILE 3 4.8 km 15.3 elev
MILE 2 3.2 km 24.3 elev
MILE 2 3.2 km 24.3 elev
Distance Markers for Existing Rail Station Marker Posts (Front/Back)

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 22816 PAUL R. MOORE
SOUTH CAROLINA WARD EDWARDS, INC. ENGINEERING CORPORATION No. C00152 CERTIFICATE OF AUTHORIZATION

NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		
7		

PLAN REVISIONS

Ward Edwards ENGINEERING
P.O. BOX 381, BLUFFTON, SOUTH CAROLINA 29910
PH (843) 837-5250 / FAX (843) 837-2558
WWW.WARDEDWARDS.COM

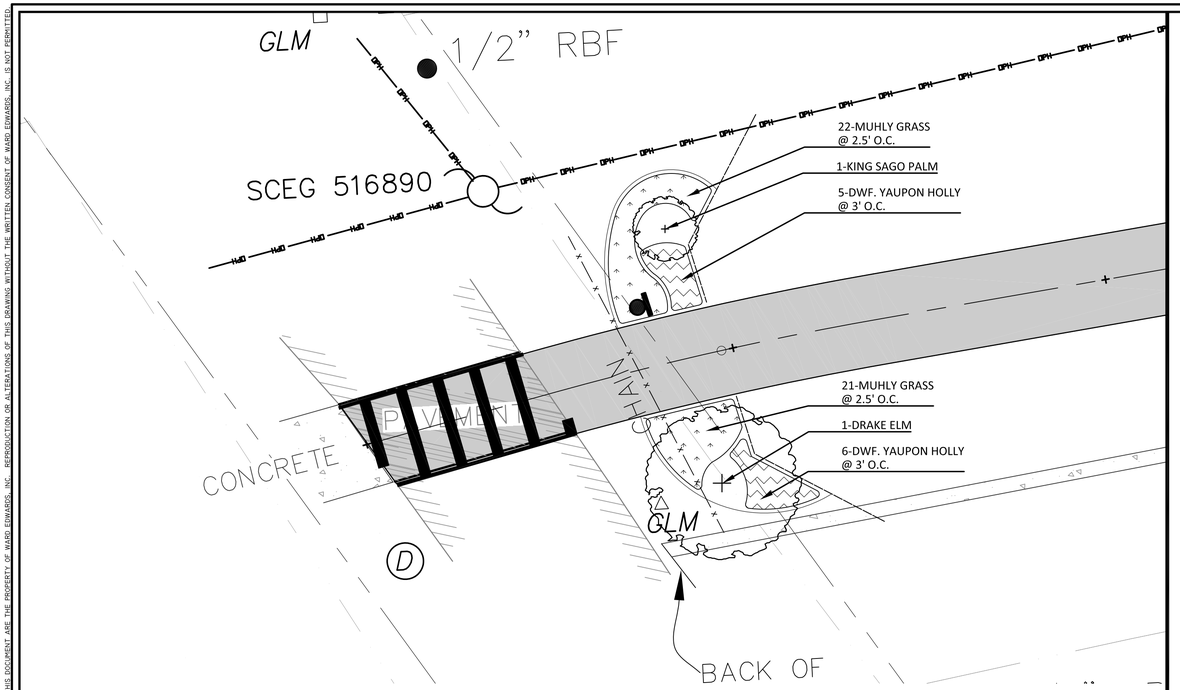
SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY, SOUTH CAROLINA
PATH Foundation
Atlanta, Georgia
CONSTRUCTION DETAILS

☐ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

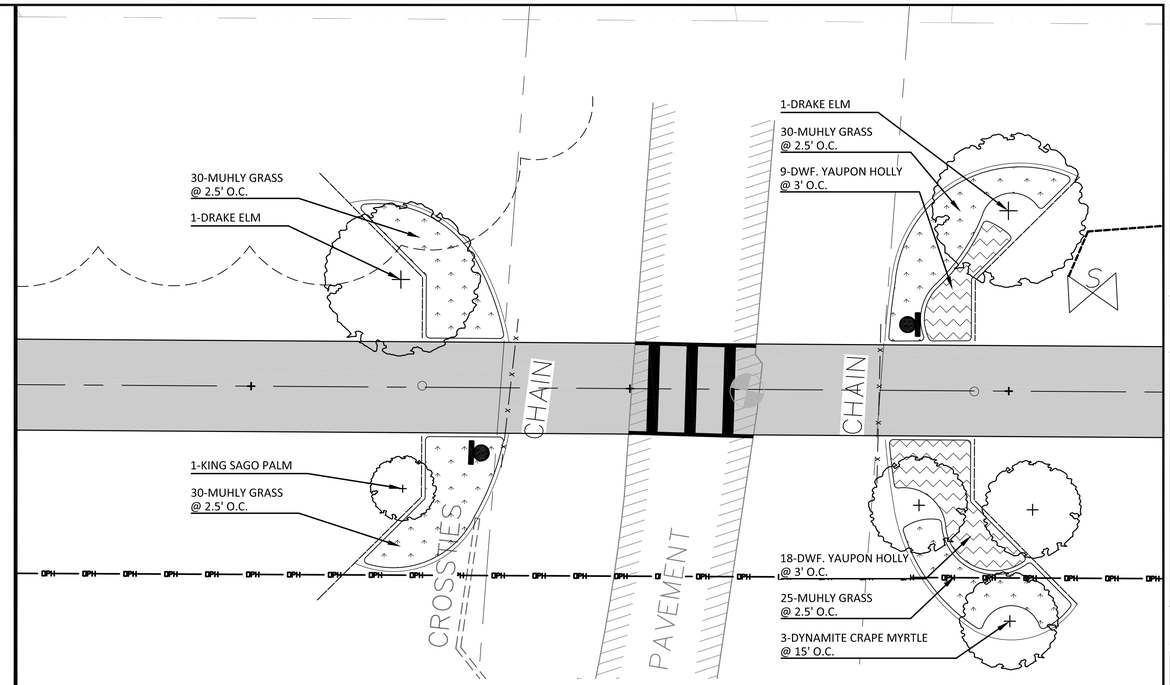
PROJECT #:	II0288C
DATE:	07/08/13
DESIGNED BY:	GAB
CHECKED BY:	PRM
SCALE:	1"=60'

SHEET
C.05F

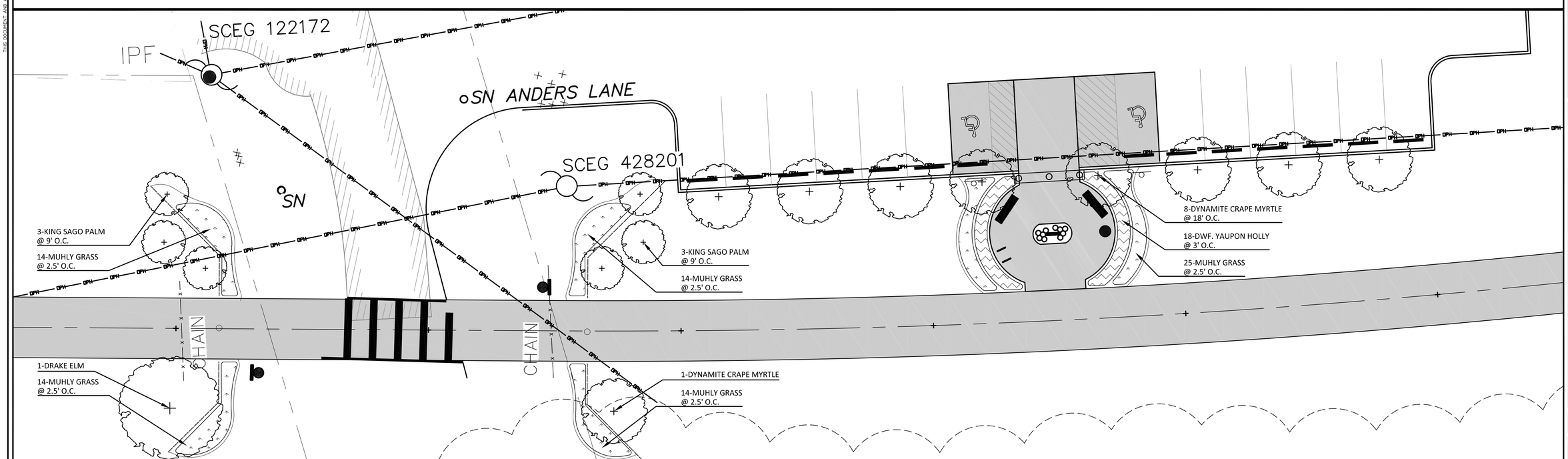
IF THIS SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY.



1 / LP-01 ALLISON ROAD INTERSECTION PLANTING PLAN
SCALE: 1"=10'-0"



2 / LP-01 ROGERS DRIVE INTERSECTION PLANTING PLAN
SCALE: 1"=10'-0"



3 / LP-01 BROOME LANE INTERSECTION AND TRAILHEAD PLANTING PLAN
SCALE: 1"=10'-0"

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SPANISH MOSS TRAIL - PHASE 3
BEAUFORT COUNTY , SOUTH CAROLINA
PATH Foundation
Atlanta, Georgia

LANDSCAPE PLANTING PLAN

☑ NOT FOR CONSTRUCTION
☐ RELEASED FOR CONSTRUCTION

PROJECT #:	110288
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DESIGNED BY:	JMP
CHECKED BY:	GGD
SCALE:	1"=10'

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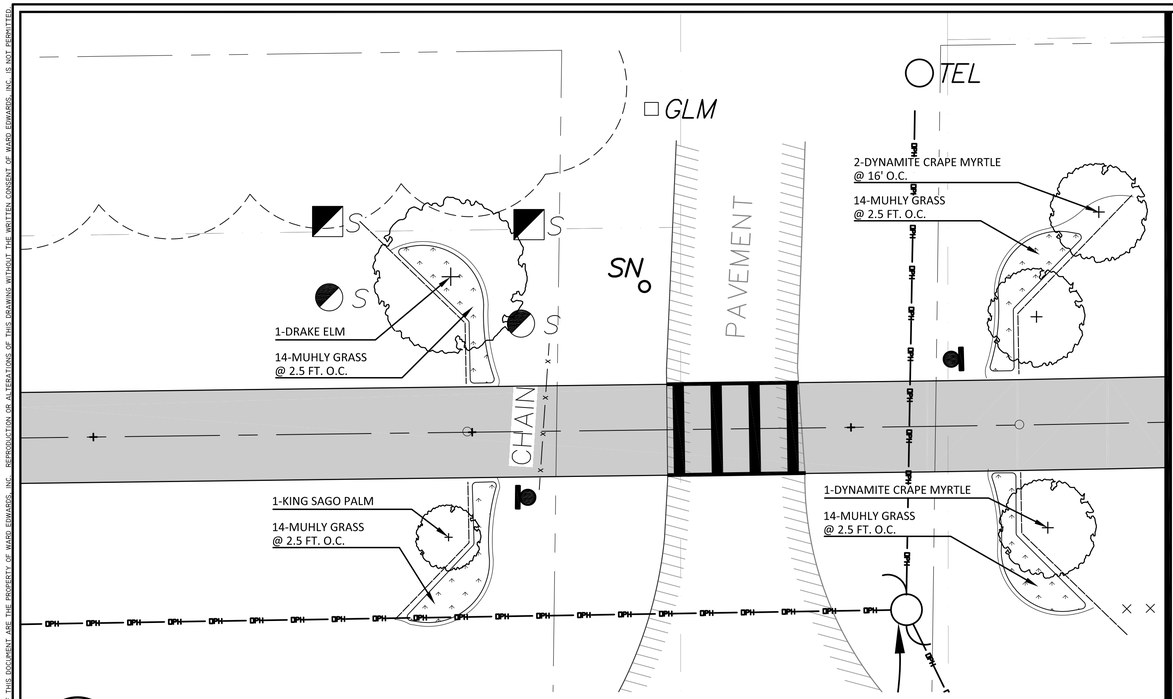
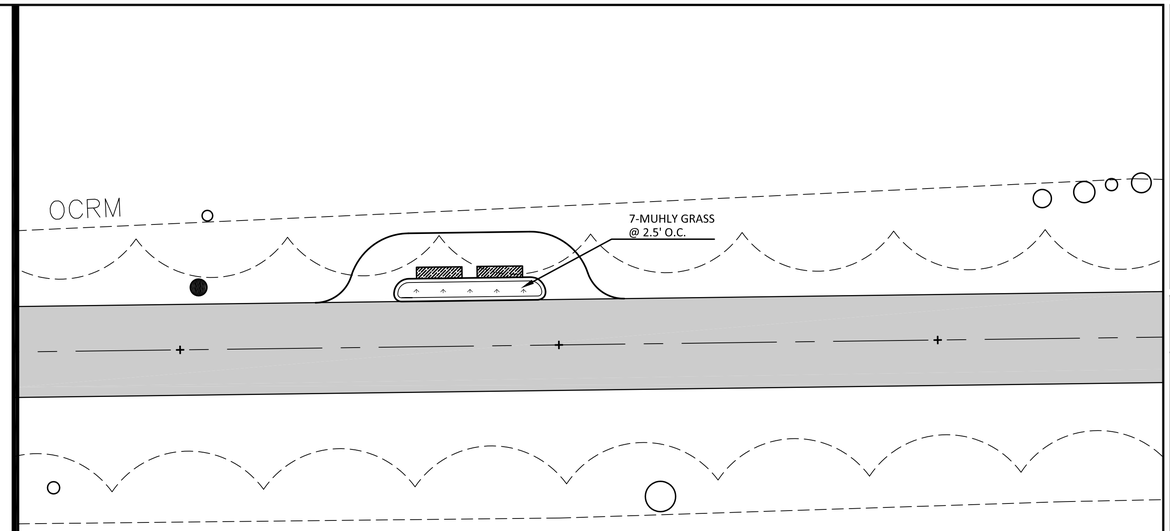
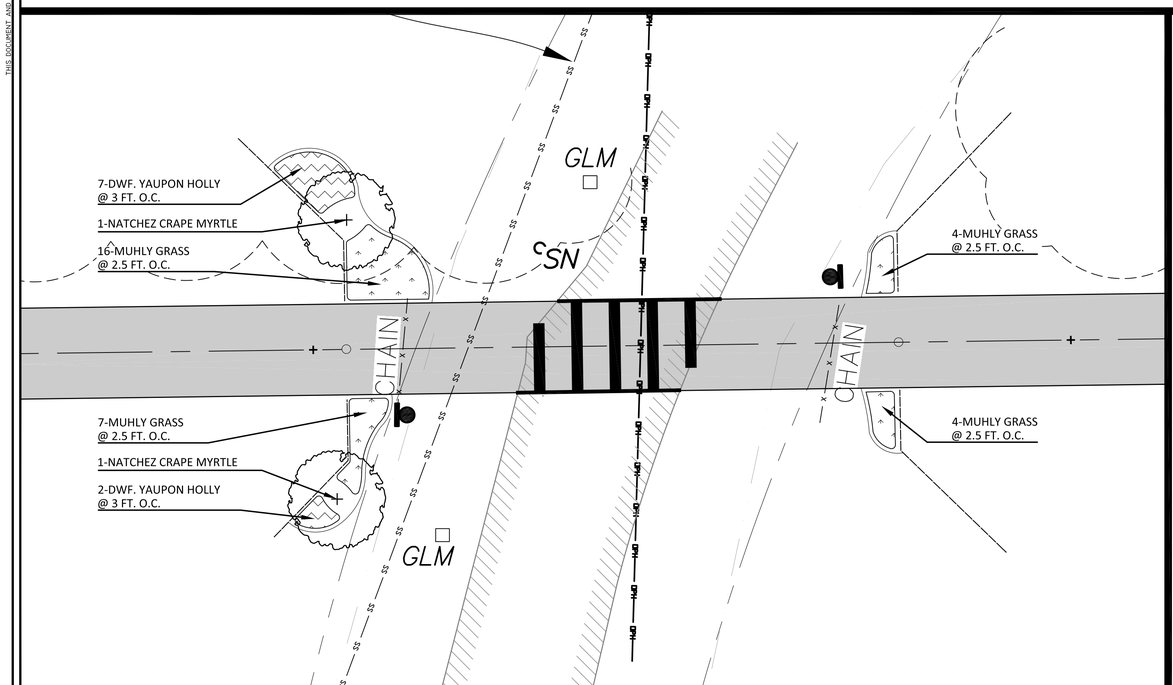


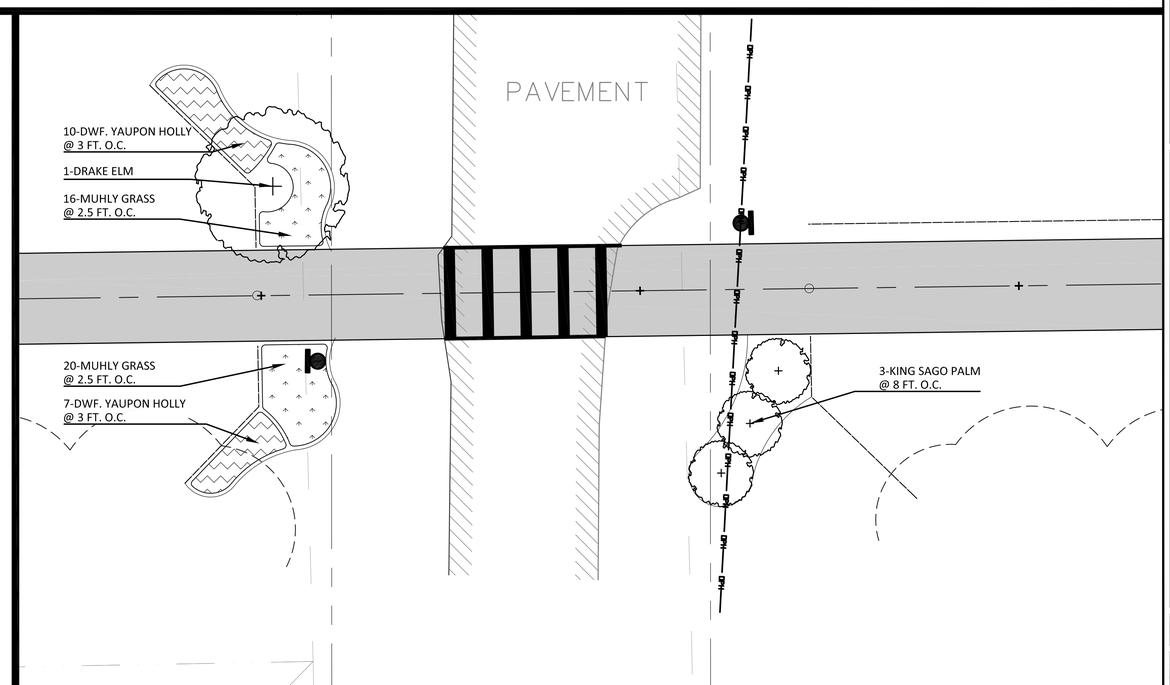
1 / LP-02 BROTHERHOOD ROAD INTERSECTION PLANTING PLAN
SCALE: 1"=10'-0"



2 / LP-02 TYPICAL POCKET PARK PLANTING PLAN
SCALE: 1"=10'-0"



3 / LP-02 RIVERSIDE DRIVE INTERSECTION PLANTING PLAN
SCALE: 1"=10'-0"



4 / LP-02 BATTERY CREEK ROAD INTERSECTION PLANTING PLAN
SCALE: 1"=10'-0"

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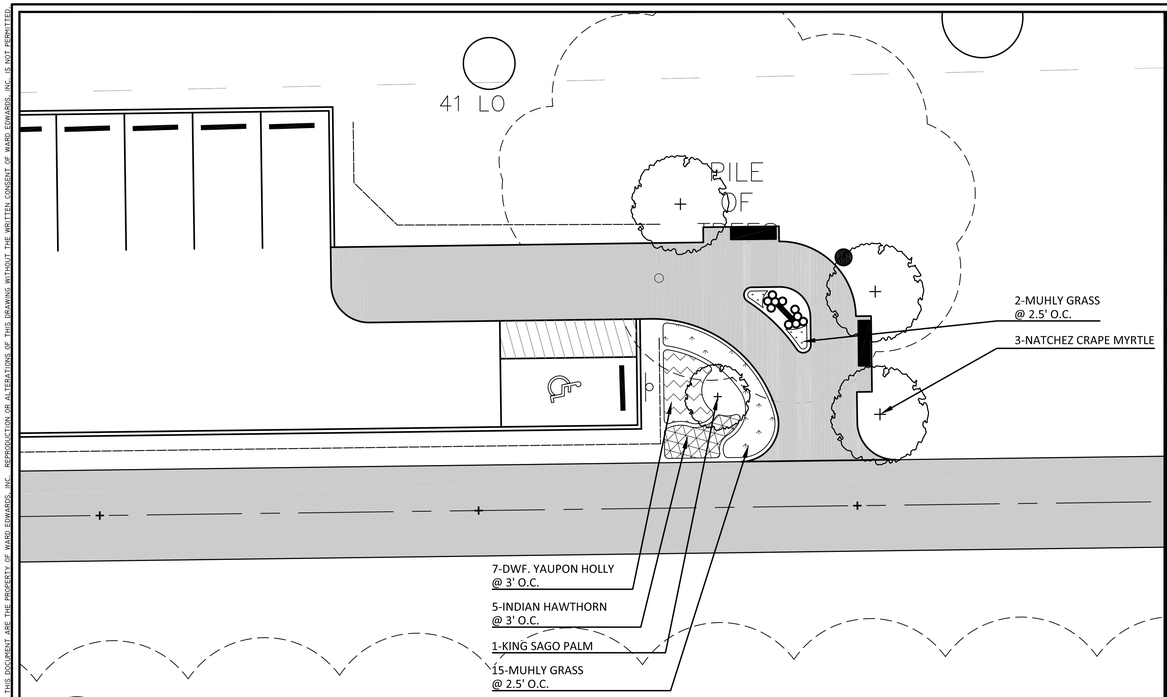
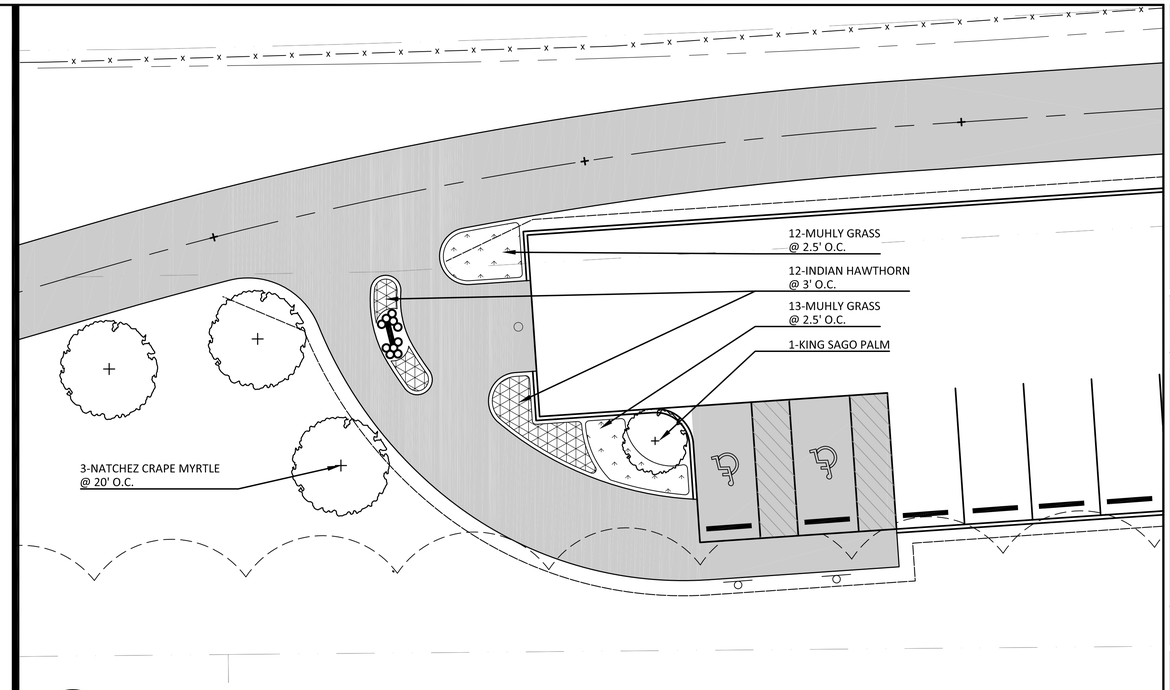
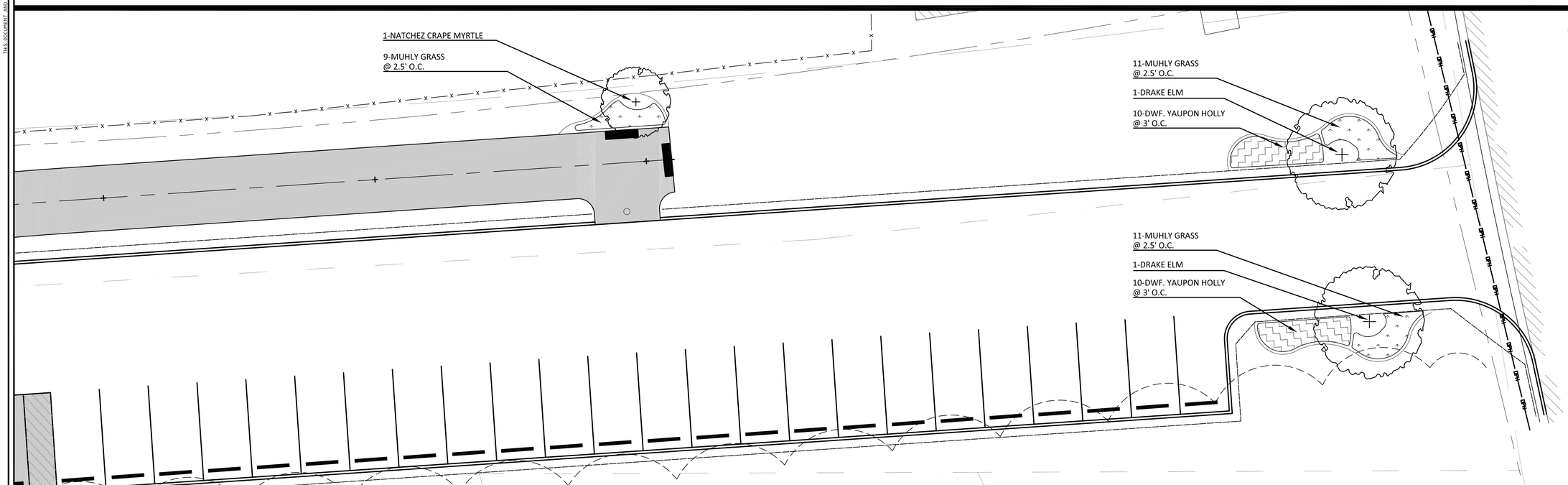


1 / LP-03 BATTERY CREEK ROAD TRAILHEAD PLANTING PLAN
SCALE: 1"=10'-0"



2 / LP-03 RIBAUT ROAD TRAILHEAD PLANTING PLAN - NORTH
SCALE: 1"=10'-0"



3 / LP-03 RIBAUT ROAD TRAILHEAD PLANTING PLAN - SOUTH
SCALE: 1"=10'-0"

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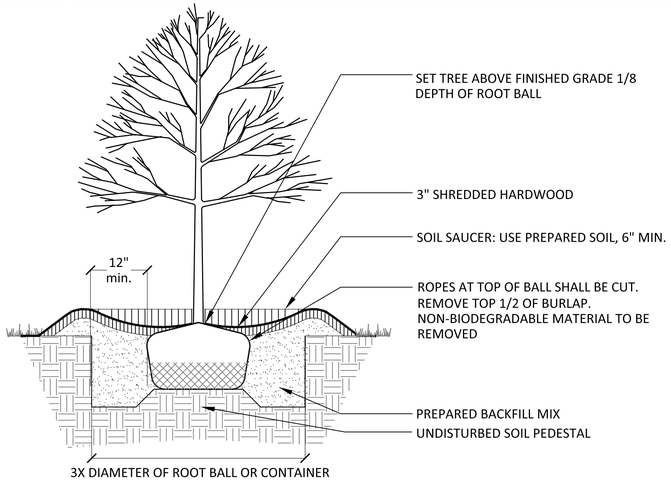
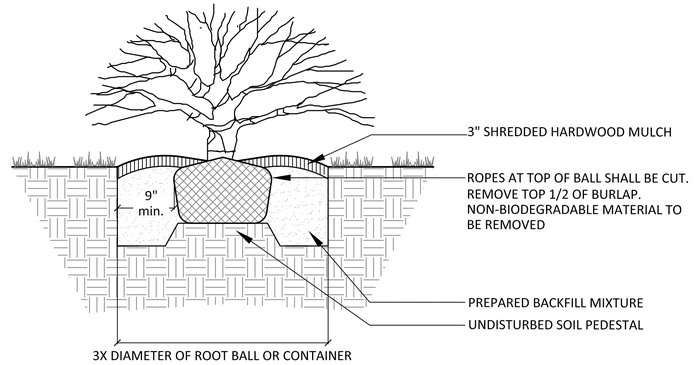


1 / L.02 **TREE PLANTING DETAIL**

SCALE: 3/4" = 1'-0"

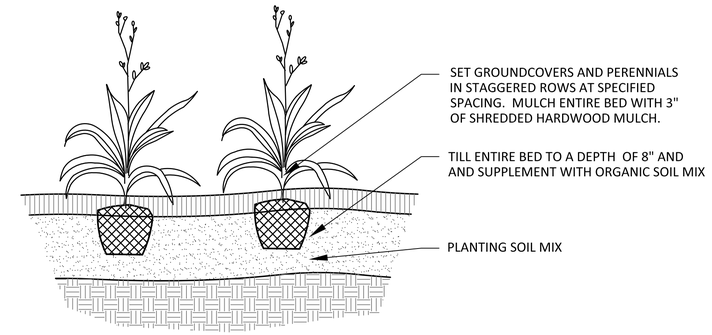
NOTE:

FOR CONTAINER GROWN SHRUBS CUT BOUND ROOTS VERTICALY 3 TIMES TO PROMOTE PROPER ROOT GROWTH



2 / L.02 **SHRUB PLANTING DETAIL**

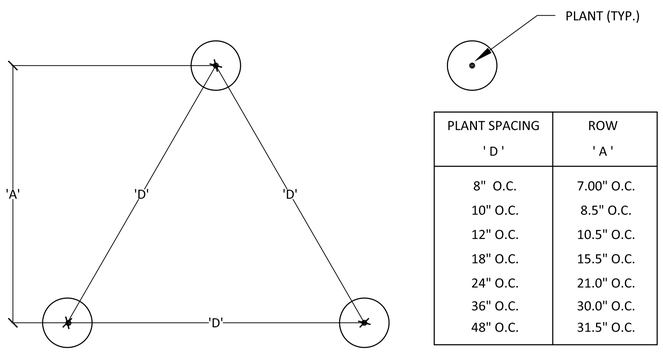
SCALE: 1" = 1'-0"



3 / L.02 **GROUNDCOVER PLANTING DETAIL**

SCALE: 1" = 1'-0"

NOTE:
GROUNDCOVERS AND PERENNIALS TO BE INSTALLED WITH TRIANGULAR SPACING.



PLANT SPACING	ROW
' D '	' A '
8" O.C.	7.00" O.C.
10" O.C.	8.5" O.C.
12" O.C.	10.5" O.C.
18" O.C.	15.5" O.C.
24" O.C.	21.0" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.

4 / L.02 **PLANT SPACING DIAGRAM**

SCALE: NTS

GENERAL PLANTING NOTES:

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS & DISEASES.
2. ALL PLANTS MUST BE CONTAINER–GROWN, BALLED & BURLAPPED (B&B), OR OTHERWISE AS INDICATED IN THE PLANT LIST.
3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL–HEADED & MEET ALL REQUIREMENTS SPECIFIED.
4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT & THE OWNER BEFORE, DURING & AFTER INSTALLATION UNTIL THE DATE OF FINAL ACCEPTANCE.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
6. ALL PLANTS & PLANTING AREAS MUST BE COMPLETELY MULCHED AS PER SPECIFICATIONS.
7. PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES & SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY & ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
8. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
9. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF PLANTING AREAS & LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE LANDSCAPE ARCHITECT & THE OWNER.
10. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF FINAL ACCEPTANCE. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS PER DIRECTION OF THE OWNER).
11. THE LANDSCAPE CONTRACTOR AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
12. THE LANDSCAPE ARCHITECT WILL APPROVE THE STAKED LOCATION OF ALL MATERIAL PRIOR TO INSTALLATION.
13. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
14. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO FINAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
15. STANDARDS SET FORTH IN 'AMERICAN STANDARDS FOR NURSERY STOCK' REPRESENT GUIDELINE SPECIFICATIONS ONLY AND CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
16. ALL SOD AND SEED TO BE AS SPECIFIED. TEMPORARY GRASS TO BE COMBINATION OF ANNUAL RYE AND FESCUE SEED. REFER TO SPECIFCATIONS FOR INSTALLATION INFORMATION.
17. PLANT SYMBOLS ON THE LANDSCAPE PLAN SUPERCEDE QUANTITIES SHOWN IN THE PLANT LIST.
18. IN SIZE GRADING B&B TREES, CALIPER SHALL TAKE PRECEDENT OVER HEIGHT
19. IN SIZE GRADING MULTI–STEM TREES, HEIGHT SHALL TAKE PRECEDENCE OVER CALIPER

LANDSCAPE NOTES:
1. TREES FOR REMOVAL SHOWN ON DEMOLITION PLANS.
2. ALL TREE PROTECTION AREAS TO BE PROTECTED FROM SEDIMENTATION AND ALL TREE PROTECTION DEVICES TO BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE, AND MAINTAINED UNTIL FINAL LANDSCAPING.
3. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY, AND REPAIRED OR REPLACED AS NEEDED.
4. NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS OR WITHIN SIX (6) FEET OF CRITICAL ROOT ZONE (CRT).
5. ALL REQUIRED VEGETATION MUST BE MAINTAINED FOR TWO GROWING SEASONS AFTER THE DATE OF FINAL INSPECTION.
6. A MANDATORY PRE-BID SITE MEETING IS REQUIRED. BIDDERS ARE ADVISED TO VISIT THE SITE TO ASSESS AREAS WITHIN LIMIT OF CONSTRUCTION REQUIRING CLEARING AND GRUBBING, TREE REMOVAL, STUMP GRINDING, NON-SELECTIVE HERBICIDE APPLICATION, ETC. QUESTIONS AND COMMENTS CAN BE DIRECTED TO ELIZA HILL, 843-525-6348 OR LHILL@CITYOFBEAUFORT.ORG
7. ALL IMPROVED CLEARED AND GRUBBED AREAS AND LANDSCAPED AREAS TO RECEIVE PINE STRAW IN A 4" LAYER.
8. AREAS SHOWN TO BE HYDROSEEDED TO BE SPRAYED WITH A NON-SELECTIVE HERBICIDE. FOLLOWING EVIDENCE OF WEED KILL, AREAS TO BE TILLED AND GRADED FOR POSITIVE DRAINAGE PRIOR TO HYDROSEEDING. COMMON BERMUDA SEED TO COMPOSE APPROXIMATELY 75% OF HYDROSEED MIXTURE.
9. ALL GROUND COVER AND SHRUB BEDS TO BE SPRAYED WITH A NON-SELECTIVE HERBICIDE. VERIFICATION OF A MINIMUM 95% DIE BACK OF EXISTING BROADLEAF WEEDS AND GRASSES TO OCCUR PRIOR TO TILLING AND PLANTING.

Plant Schedule

Qty.	Common Name	Botanical Name	Size	Spacing	Notes
8	Drake Elm	Ulmus parvifolia 'Drake'	3" cal. B&B	A.S.	Sgl. Leader; 12'-14' ht.
15	Dynamite Crape Myrtle	Lagerstroemia indica 'Whit II'	2.5" cal. B&B	A.S.	Sgl. Leader; 8'-10' ht.
14	King Sago Palm	Cyacas revoluta	3' ht.	A.S.	
9	Natchez Crape Myrtle	Lagerstroemia indica 'Natchez'	2.5" cal. B&B	A.S.	Sgl. Leader; 8'-10' ht.
109	Dwarf Yaupon Holly	Ilex vomitoria 'Nana Bordeaux'	3 gal.	12-15" ht. 15-18" spr.	
17	Indian Hawthorne	Rhaphiolepsis indica	3 gal.	12-15" ht. 15-18" spr.	
442	Muhly Grass	Muhlenbergia capillaris	3 gal.	30-36" ht. 24-30" spr.	

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