

PURCHASING AND MATERIALS MANAGEMENT (843) 918-2170 FAX: (843) 918-2182 www.cityofmyrtlebeach.com

Addendum 02 May 30, 2023 IFB 23-B0023 Broadway Wetland and Stream Improvements

The purpose of this Addendum 02 to IFB 23-B0023 for Broadway Wetland and Stream Improvements, dated May 30,2023 and previously amended on May 16, 2023, is to provide updated drawing sheets to reflect the updated level of development. The updated drawings are attached and are hereby made a part of this addendum.

All bid submissions must be received by the Procurement Office no later than 2:00P.M. on Tuesday, June 13, 2023. No electronic submissions will be accepted. The City is not responsible for late or misdirected mail.

Please submit your bid in a sealed envelope to the address below: City of Myrtle Beach Procurement 3231 Mr. Joe White Avenue Myrtle Beach, SC 29577 Attn: Brandon Hancock

PROJECT

AREA

VICINITY MAP

100%

BRO,



Sheet Number

C1

3

D2

D3

EC1

EC2

EC3

EC4

EC5

SHEET LIST

COVER

EXISTING CONDITIONS

PLAN & PROFILE -L- DOWNSTREAM

PLAN & PROFILE -Y-

SECTION VIEW

SECTION VIEW

DETAILS

DETAILS

DETAILS

EROSION CONTROL PLAN

EROSION CONTROL PLAN

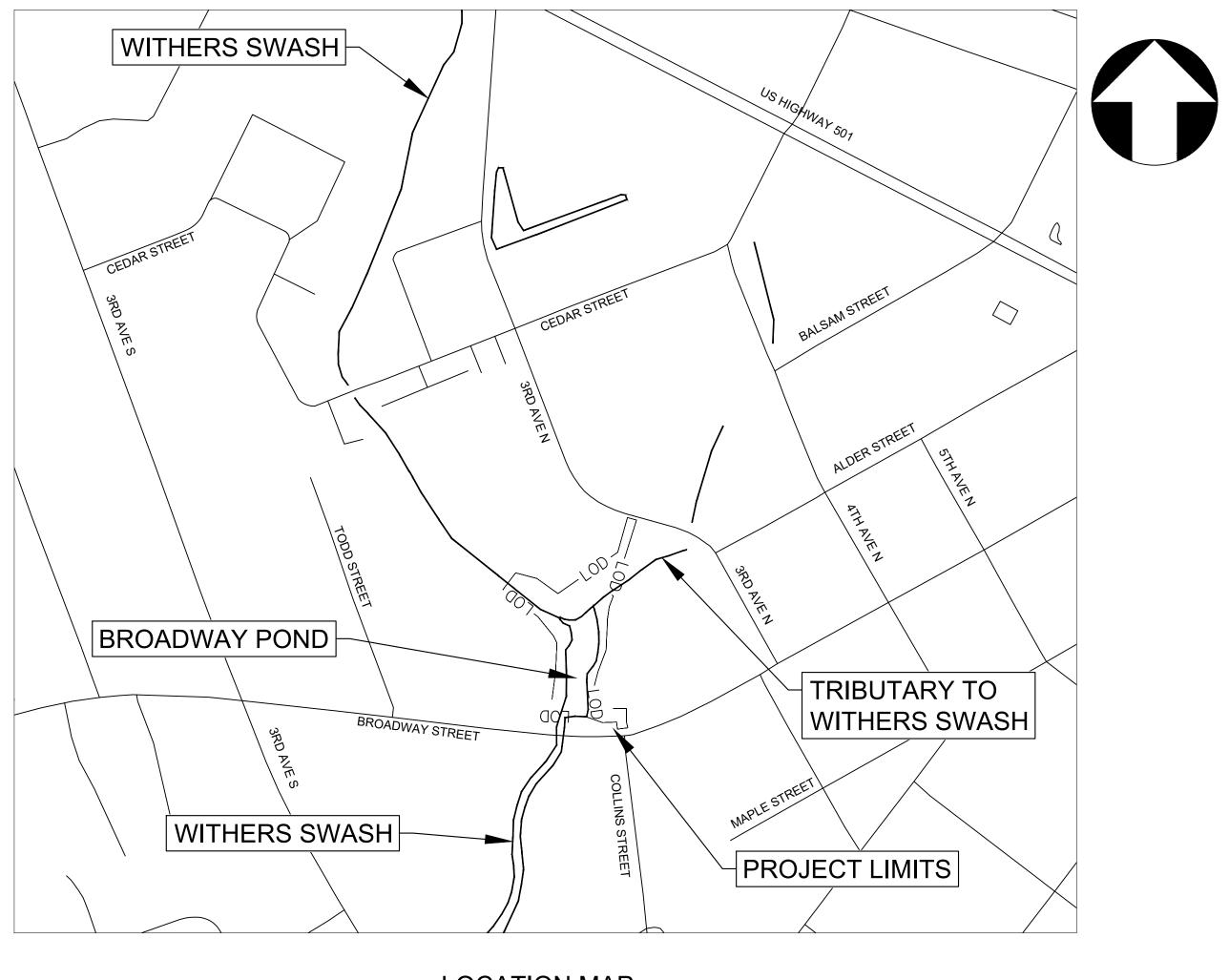
PLANTING PLAN

PLANTING PLAN

PLANTING PLAN

THE CITY OF MYRTLE BEACH PUBLIC WORKS DEPARTMENT

BROADWAY WETLAND & STREAM IMPROVEMENT SRF 494-24



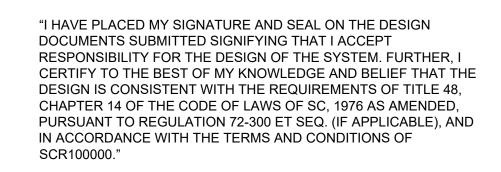






720 CORPORATE CENTER DRIVE
RALEIGH, NC 27607
(919) 782-0495

Office Locations:
Tennessee
Georgia
North Carolina
South Carolina
NC LICENSE NO. F-0374





GENERAL NOTES:

- CONTRACTOR IS TO REFER TO EROSION AND SEDIMENT CONTROL SHEETS AND INSTALL APPROPRIATE MEASURES BEFORE BEGINNING ANY WORK.
- CONTRACTOR IS TO DISPOSE OF ALL MATERIAL REMOVED OFFSITE IN A SAFE AND LEGAL MANNER.
- ALL DEWATERING REQUIRED TO EXECUTE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE PROJECT MANUAL FOR FURTHER DETAIL
- SEE SPECIFICATION SECTION 312300 FOR DESCRIPTION OF SUITABLE BACKFILL MATERIAL AND COMPACTION REQUIREMENTS. CONTRACTOR SHALL PROVIDE SUITABLE MATERIAL AS NECESSARY TO ACHIEVE FINAL PROJECT GRADES.
- CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- TREES AND BUSHES OUTSIDE OF LIMITS OF DISTURBANCE SHALL NOT BE DISTURBED.
- CONTRACTOR SHALL COMPLY WITH OSHA 29 CFR. PART 1926 SUBPART P, EXCAVATIONS, 29 CFR PART 1910.146, AND PERMIT REQUIRED CONFINED SPACES.
- LIMITS OF DISTURBANCE IS SHOWN ON THE PLANS AND SHALL BE MAINTAINED AT ALL TIMES. ANY DAMAGE TO PRIVATE PROPERTY CAUSED BY CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE TO ORIGINAL OR SUPERIOR CONDITION.
- CONTRACTOR'S WORK MUST REMAIN INSIDE THE LIMITS OF DISTURBANCE NOTED ON THESE PLANS AT ALL TIMES.
- DATA REQUIRED FOR PREPARATION OF RECORD DRAWINGS SHALL BE OBTAINED AND RECORDED BY THE CONTRACTOR AT THE TIME OF INSTALLATION. THIS DATA SHALL BE ACCUMULATED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD AND EVIDENCE PROVIDED TO THE ENGINEER AS PART OF THE MONTH PAY REQUEST. PAY REQUESTS WILL NOT BE APPROVED BY THE ENGINEER IF THIS DATA IS NOT SUBMITTED WITH THE PAY REQUEST. CONTRACTOR IS TO PROVIDE NEAT AND LEGIBLE COMPLETED RECORD DRAWINGS TO THE ENGINEER AT THE COMPLETION OF THE PROJECT
- CONTRACTOR TO REPAIR TO EXISTING OR SUPERIOR CONDITION ANY EXISTING LANDSCAPING, CONCRETE, DRIVEWAYS, PAVEMENT, CURB AND GUTTER, AND SIDEWALK THAT IS DISTURBED DUE TO
- CONSTRUCTION TOLERANCE IS ±0.1' FOR IN-STREAM STRUCTURES, AND ±0.2' FOR GRADING.

EXISTING CONDITIONS NOTES

- TREES AND SHRUBS THAT THE CONTRACTOR IS REQUIRED TO REMOVE ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL SAVE ALL OTHER TREES AND SHRUBS OUTSIDE THE LIMITS OF DISTURBANCE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- LIMITS OF DISTURBANCE SHALL BE "VISI-BARRIER" HIGH DENSITY POLYETHYLENE FABRIC, ORANGE, FOUR FEET IN HEIGHT, OR, TEMPORARY SILT FENCE. INSTALL PER MANUFACTURERS SPECIFICATIONS WHERE
- IF REQUIRED, THE CONTRACTOR SHALL RELOCATE ALL MAIL BOXES AS REQUIRED BY SECTION 11-9 OF THE SCDOT ROADWAY DESIGN MANUAL. COORDINATE THIS WORK WITH THE U.S. POSTAL SERVICE.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE CITY OF MYRTLE BEACH ANY DISCREPANCIES FOUND BETWEEN ACTUAL CONDITION AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION FROM THE CITY INSPECTOR AND ENGINEER PRIOR TO PROCEEDING.

PAVING NOTES

- SIDEWALK SHALL BE FOUR INCHES THICK, AND SIX INCHES THICK AT DRIVEWAY CROSSINGS, IF
- IF REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY RESTORE ALL DRIVEWAYS AND DRIVES TO MAIL BOXES AS GOOD AS OR BETTER THAN ORIGINAL CONDITION. CONTRACTOR SHALL MAINTAIN ALL DRIVEWAYS OR MAIL BOX DRIVES UNTIL SAID DRIVES ARE ACCEPTED BY THE ENGINEER AS BEING AS GOOD AS OR BETTER THAN THEIR ORIGINAL CONDITION.
- IF REQUIRED, THE CONTRACTOR SHALL SET AND ADJUST PROPOSED CURB ELEVATIONS AS NECESSARY TO ENSURE PROPER LONGITUDINAL GRADE FOR DRAINAGE. THE CONTRACT SHALL RETAIN EXISTING PAVEMENT, UNLESS OTHERWISE NOTED.
- ALL CALLOUTS FOR REMOVAL AND REPLACEMENT OF SIDEWALK AND PAVEMENT INCLUDE THE TOTAL AMOUNT TO BE REMOVED AND REPLACED PER CONTINUOUS SECTION. REMOVAL AND REPLACEMENT AREAS ARE HATCHED APPROPRIATELY AS NOTED ON EACH SHEET.
- PROPOSED PAVING SHALL BE COMPLETED AS INDICATED ON THE PLANS AND IN ACCORDANCE WITH DIVISIONS 6 AND 7 OF THE SPECIFICATIONS.

GRADING & DRAINAGE NOTES

- PIPE INVERT ELEVATIONS HAVE PRECEDENCE OVER SLOPES. HOWEVER, SLOPES SHALL NOT BE DECREASED FROM THOSE SHOWN ON PLAN WITHOUT PRIOR APPROVAL FROM THE ENGINEER
- POSITIVE DRAINAGE SHALL BE PROVIDED ON ALL GRADED AREAS, ESPECIALLY AREAS TO BE PAVED. THROUGHOUT CONSTRUCTION. PROPOSED CURB & GUTTER AND PROPOSED SIDEWALKS SHALL BE CONSTRUCTED TO ENSURE POSITIVE DRAINAGE
- PIPE LENGTHS INDICATED ON PLAN ARE APPROXIMATE ONLY.
- NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, TRENCHING, OR OTHER LAND DISTURBING ACTIVITY SHALL BE PERMITTED BEYOND LIMITS OF DISTURBANCE WITHOUT PRIOR APPROVAL FROM THE OWNER.
- ALL PROPOSED GRADES ARE FINISH GRADES.

Know what's below.

Call before you dig.

- GRADES, ELEVATIONS AND LOCATION SHOWN ARE APPROXIMATE. AS DIRECTED BY THE ENGINEER, THEY MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN CONDITIONS.
- LIMITS OF PROPOSED SLOPES ARE INDICATED IN THE PLANS, DETAILS AND STANDARD DRAWINGS. THE MAXIMUM FILL SLOPE SHALL NOT EXCEED A 1.5:1 (HORIZONTAL TO VERTICAL) UNLESS DESIGNATED BY THE ENGINEER. CUT SLOPES GREATER THAN 1.5:1 WILL BE USED ONLY AS DIRECTED BY THE ENGINEER AND AT THE SPECIFIC LOCATIONS SHOWN ON THE PLANS.

UTILITY NOTES

- CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF MYRTLE BEACH PUBLIC WORKS STANDARDS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING ALL APPROPRIATE PARTIES AND ASSURING THAT UTILITIES ARE LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL SC811 AT 811 FOR LITH ITY LOCATING SERVICES MINIMUM 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO
- CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES TO EXISTING UTILITIES, STORM DRAINAGE. AND OTHER FACILITIES WHETHER SAID ITEMS ARE SHOWN ON PLANS OR NOT
- CONTRACTOR SHALL NOTIFY THE CITY OF MYRTLE BEACH PUBLIC WORKS DEPARTMENT OF IMPENDING WORK. THE INFRASTRUCTURE MANAGER AND PROJECT COORDINATOR SHALL BE CONTACTED AT THE FOLLOWING ADDRESS (72 HOURS PRIOR TO CONSTRUCTION):

CHRIS MILLER INFRASTRUCTURE MANAGER TELEPHONE: (843) 918-2000

FRANKIE COLLINS PROJECT COORDINATOR TELEPHONE (843)-918-2085

- IN THE EVENT OF CONFLICTS WITH EXISTING UTILITIES OR IF FURTHER VERIFICATION OF FACILITIES OR TEMPORARY DISRUPTION OF SERVICE IS NECESSARY. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND SHALL FULLY COORDINATE ANY NECESSARY MODIFICATIONS WITH THE ENGINEER AND THE APPROPRIATE UTILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY PROVIDERS WHO MAY PROVIDE SERVICE IN THE PROJECT AREA.
- IF UTILITIES WILL NEED TO BE RELOCATED DUE TO EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION COST OF THE WATER AND SEWER ONLY
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE FEDERAL, SOUTH CAROLINA, AND LOCAL ORDINANCES, REGULATIONS, SPECIFICATIONS AND PERMITS. CONTRACTOR SHALL CONTACT SCDOT PRIOR TO ANY WORK WITHIN SCDOT RIGHT-OF-WAY. A COPY OF ALL APPROVED ENCROACHMENT AGREEMENTS SHALL BE KEPT ONSITE DURING ALL CONSTRUCTION ACTIVITIES CONTRACTOR IS RESPONSIBLE FOR COMPLETING ANY NECESSARY ENCROACHMENT AGREEMENTS AND ALL CORRESPONDENCE WITH THE SCDOT AND THE CITY OF MYRTLE BEACH ASSOCIATED WITH THESE **AGREEMENTS**
- ANY MONUMENT DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- MINIMUM SEPARATIONS BETWEEN EXISTING AND PROPOSED UTILITIES SHALL BE AS SPECIFIED IN THE CITY OF MYRTLE BEACH STANDARD SPECIFICATIONS. IF UTILITY SEPARATION CONFLICTS OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE REQUIRED ADJUSTMENTS WITH THE ENGINEER PRIOR TO PROCEEDING WITH WORK. THE CONTRACTOR SHALL WORK AROUND EXISTING
- 10. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR THE USE OF THE CONTRACTOR IN PROVIDING PROTECTIONS FOR THE UTILITIES DURING CONSTRUCTION OPERATION, THE CITY, DESIGN CONSULTANT, AND/OR AGENT SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OR LOCATION. SIZE DEPTH OR COMPLETENESS OF THE INFORMATION BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL CONTACT EACH OF THE UTILITY OWNERS IN THE AREA OF CONSTRUCTION RELATIVE TO THEIR UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY CONSTRUCTION OPERATIONS AND/OR RELATED WORK OF THE CONTRACTOR OR HIS AGENTS. THE CONTRACTOR SHALL HOLD THE CITY HARMLESS FOR ANY INCONVENIENCE OR DELAY CAUSED BY THE OPERATIONS OF OTHERS PERFORMING THE ABOVE WORK. NECESSARY ADJUSTMENT OR RELOCATION OF EXISTING UTILITIES, EXCEPT FOR CONTRACT ITEMS, WILL BE PERFORMED BY THE UTILITY SERVICE PROVIDER. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS IN ORDER TO PROVIDE SATISFACTORY PROGRESS OF THE PROJECT.
- THE CONTRACTOR SHALL COMPLETE SOFT DIGS IN ORDER TO VERIFY DEPTH AND LOCATION OF EXISTING GAS MAINS AND REPORT FINDINGS TO THE OWNER PRIOR TO CONSTRUCTION.
- 12. A CITY REPRESENTATIVE MUST BE PRESENT PRIOR TO AND DURING ANY CONSTRUCTION WITHIN THE AREA OF EXISTING GAS MAINS
- 13. THE CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OR RELOCATION OF GAS MAINS WITH THE CITY. THE CITY MUST BE NOTIFIED TWO WEEKS IN ADVANCE OF CONSTRUCTION. ALL ADJUSTMENTS AND RELOCATIONS WILL BE PERFORMED BY THE CITY.
- THE CONTRACTOR SHALL SUPPORT AND PROTECT ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCH EXCAVATION AND/OR PIPE INSTALLATION. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING IN AREAS NEAR POWER TRANSMISSION LINES.
- 15. WHERE SANITARY SEWERS AND WATER LINES ARE ENCOUNTERED, THE CONTRACTOR SHALL USE CARE IN WORKING AROUND OR NEAR THEM. IF AN EXISTING SEWER OR WATER LINE IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPLACE THE SEWER OR WATER LINE AT HIS EXPENSE IN ACCORDANCE WITH CITY OF MYRTLE BEACH UTILITY SPECIFICATIONS. THE CONTRACTOR SHALL REPLACE A MINIMUM OF 10 FEET OF SANITARY SEWER LINE AND/OR WATER LINE WITH PC 350 DUCTILE IRON PIPE WHEN DRAINAGE PIPE COMES WITHIN 18 INCHES OF SAID LINES VERTICALLY OR 10 FEET
- 16. ALL WATER VALVES, WATER BOXES, WATER METER BOXES, WATER VAULTS, SANITARY SEWER MANHOLES, AND CLEANOUTS IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO THE FINISHED GRADE BY THE CONTRACTOR.
- 17. IF THE WATER METERS ARE TO BE RELOCATED HORIZONTALLY, THEY SHALL BE MOVED TO AN AREA BEHIND THE PROPOSED CURB. IF RELOCATED METER IS IN DRIVE OR SIDEWALK, CONTRACTOR WILL PROVIDE AND INSTALL CONCRETE METER BOXES.
- WATER AND SEWER LINES ARE TO REMAIN ACTIVE AT ALL TIMES DURING CONSTRUCTION. IF THIS IS NOT POSSIBLE, THEN CONTRACTOR SHALL FOLLOW CITY OF MYRTLE BEACH SPECIFICATIONS AND NOTIFY THE OWNER PRIOR TO THE SCHEDULED SERVICE INTERRUPTIONS.
- 19. IF REQUIRED, SEWER LATERALS ARE TO BE RECONNECTED PER CITY OF MYRTLE BEACH SPECIFICATIONS.
- 20. ALL MANHOLE TOPS AND VALVE BOXES SHALL BE CONSTRUCTED FLUSH TO FINAL GRADE. WATER METER BOXES AND SANITARY SEWER SERVICES DISTURBED BY CONSTRUCTION SHALL BE SET TO GRADE IN ACCORDANCE WITH CITY OF MYRTLE BEACH STANDARDS.

TRAFFIC CONTROL NOTES

- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, MAINTAINING AND REMOVING SIGNS, BARRICADES, LIGHTS, ETC. IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. NO LANE CLOSURES OR DETOURS SHALL BE AUTHORIZED FOR THIS PROJECT, CONSTRUCTION SIGNING SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND SHALL BE INCLUDED WITHIN THE UNIT PRICE OF THE OTHER WORK
- CONTRACTOR SHALL IMMEDIATELY RESTORE ALL MAIL BOXES ROADWAY SIGNS FTC. AS SOON AS POSSIBLE BUT AT A MINIMUM. THESE ITEMS SHOULD BE REPLACED PRIOR TO COMPLETION OF WORK ON THE DATE OF REMOVAL. WHEN NECESSARY TO TEMPORARILY REMOVE A STOP SIGN. A TEMPORARY INSTALLATION OR FLAGMAN SHALL BE USED IN ITS STEAD UNTIL THE PERMANENT SIGN
- DIAMOND SHAPED ADVANCED WARNING SIGNS SHALL BE SPACED AT 200' INTERVALS FOR ROADS OF SPEED LIMITS 35 MPH AND BELOW. AND 350' INTERVALS FOR SPEED LIMITS BETWEEN 40 AND 50 MPH. MINIMUM 3 ADVANCED WARNING SIGNS PRIOR TO ROAD HAZARD.
- STANDARD SIZE FOR ADVANCED WARNING SIGNS IS 48" X 48". SIGNS TO BE MOUNTED MINIMUM 7' ABOVE ROADWAY MEASURED FROM BOTTOM OF SIGN. SIGNS ON BARRICADES TO BE MOUNTED MINIMUM 1' ABOVE ROADWAY
- ALL SIGNS TO BE USED DURING HOURS OF DARKNESS TO BE MADE OF RETROREFLECTIVE MATERIAL OR BE ILLUMINATED. REFLECTORIZE ALL ORANGE ADVANCE WARNING CONSTRUCTION SIGNS AND ANY ORANGE AREAS OF MULTI-COLORED ADVANCE SIGN WITH FLUORESCENT ORANGE COLORED PRISMATIC REFLECTIVE COATING.
- REMOVE OR COVER SIGNS DURING SUSPENSION OF WORK OR WHEN SIGNS ARE NO LONGER APPROPRIATE. PORTABLE SIGN SUPPORTS SHALL LIE FLAT WITH LEGS IN RETRACTED POSITION WHEN

EROSION CONTROL NOTES

- TOTAL DISTURBED AREA: ± 1.7 AC.
- MINIMUM EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SOUTH CAROLINA DHEC BMP HANDBOOK, U.S. DEPT. OF AGRICULTURE, U.S. SOIL CONSERVATION SERVICE, AND CITY OF MYRTLE BEACH SPECIFICATIONS.
- CONTRACTOR SHALL NOT DISTURB ANY AREAS OUTSIDE OF THE DESIGNATED LIMITS OF
- SEE SHEETS EC1-P3 FOR ADDITIONAL NOTES REGARDING EROSION CONTROL, MAINTENANCE PLAN, AND VEGETATIVE PLAN.
- ANY ONSITE STOCKPILING IS TO BE COORDINATED AND APPROVED BY A CITY INSPECTOR. THE STOCKPILE WILL BE PROVIDED WITH GROUND COVER 7-14 CALENDAR DAYS UPON COMPLETION OF ANY PHASE OF WORK. MULCH WILL BE TACKED WITH EMULSIFIED ASPHALT
- TRENCH EXCAVATION OR SPOIL MATERIAL SHALL NOT BE PERMITTED ON PAVED ROADWAYS. THE CONTRACTOR SHALL INCLUDE ADEQUATE COMPENSATION WITHIN HIS UNIT PRICE COSTS FOR ANY HAULING AND OFF-SITE STOCKPILING.

SURVEY NOTES

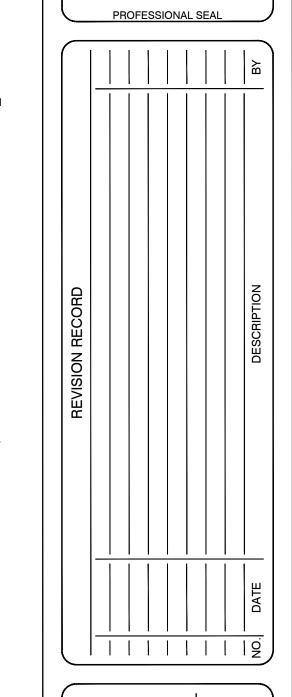
- CONTRACTOR TO VERIFY EXISTING CONDITIONS THROUGH THE CONSTRUCTION SURVEY AND STAKING PROCESS AND REPORT ANY DISCREPANCIES TO THE OWNER PRIOR TO CONSTRUCTION.
- THE UNDERGROUND UTILITIES SHOWN HEREON WERE SURVEYED BY ROBERT A. WARNER & ASSOCIATES INC. AND DATED MARCH 29 2022. THE DEPTH OF UTILITIES IS UNKNOWN, UNLESS OTHERWISE INDICATED. SURVEY COMPLETED USING THE HORIZONTAL DATUM SC GRID NAD 83 VERTICAL DATUM NAVD 88. PLEASE NOTE THAT SC LAW REQUIRES THAT THE SC811 CENTER BE NOTIFIED MINIMUM 3 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATION. CALL 811 OR VISIT WWW.SC811.COM.

SCDHEC EROSION AND SEDIMENT CONTROL NOTES:

- 1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO SEEDING. 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 AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPS BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPS. 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 ANY SEDIMENTS 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
- 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.

FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

- 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, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS AND MUST BE CONDUCTED UNTIL
- 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.



720 CORPORATE CENTER DRIVE

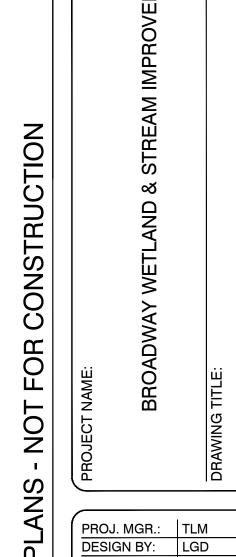
(t)919-782-0495

(f)919-782-9672

WWW.WKDICKSON.COM

NC LICENSE NO.F-0374

RALEIGH, NC 27607



DRAWN BY: BFL PROJ. DATE: JAN.2022 DRAWING NUMBER:

WKD PROJ. NO.: 20210818.00.RA

PROPOSED LEGEND

----- EXISTING CONTOURS PROPOSED CONTOURS

— w — WATER MAIN

——LOD — LIMITS OF DISTURBANCE TEMPORARY CONSTRUCTION EASEMENT

——— ss ——— SANITARY SEWER MAIN

SANITARY SEWER MAIN ---- W ---- WATER MAIN

---- EXISTING CONTOURS

EXISTING LEGEND

FIRE HYDRANT

ELECTRIC BOX

WATER VALVE

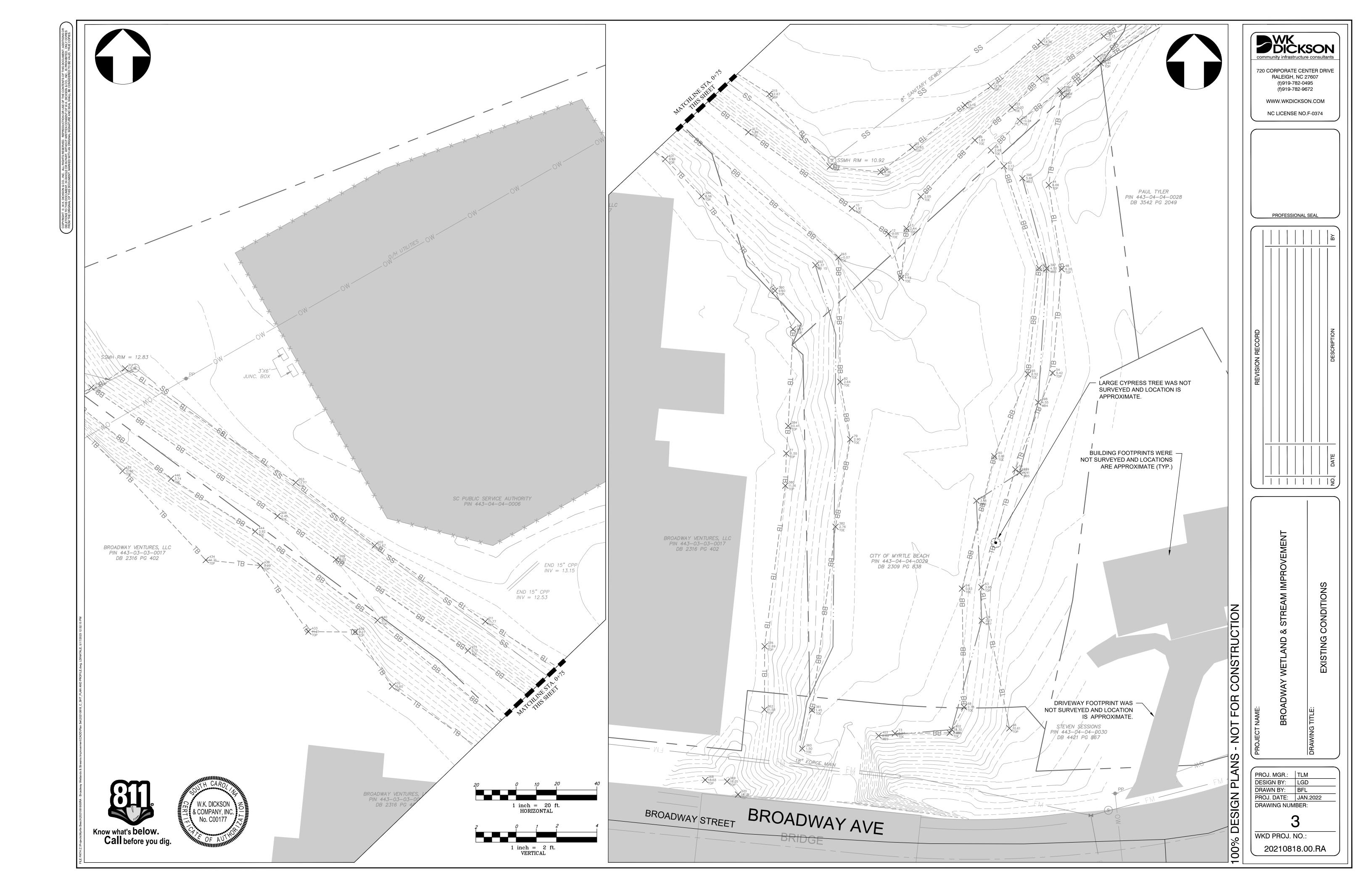
WATER METER

MANHOLE

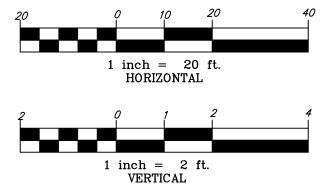
FORCE MAIN VALVE

UTILITY/POWER POLE

COMMUNICATIONS BOX



STA 2+00.00 ELEV. -2.00



PROPOSED FLOODPLAIN BENCH

PROPOSED SAND/ROCK FILTER BERM

PROPOSED LOG STRUCTURE

PROPOSED WETLAND

W.K. DICKSON
No. C00177

WKD

WKD

TIE TO EXISTING STREAM BED @ ELEV. -1.00

Call before you dig.

PROPOSED LOG STRUCTURE

4+00

PER DETAIL 3/D1 (TYP)

(PROPOSED THALWEG)

-L- STA 0+75 to 4+60

H: 1"=20'

V: 1"=2'

PROJ. MGR.: TLM
DESIGN BY: LGD
DRAWN BY: BFL
PROJ. DATE: JAN.2022
DRAWING NUMBER:

720 CORPORATE CENTER DRIVE

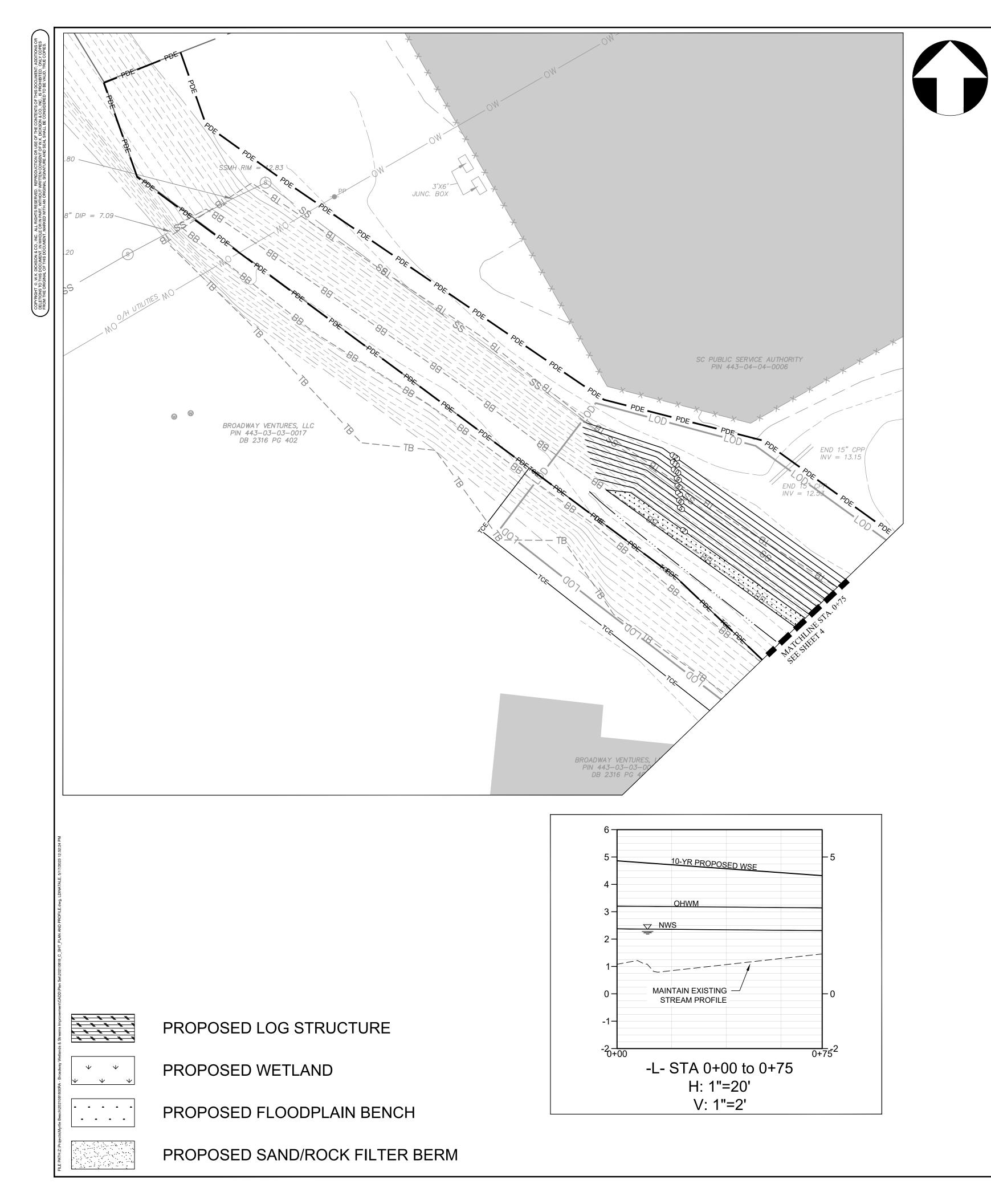
RALEIGH, NC 27607

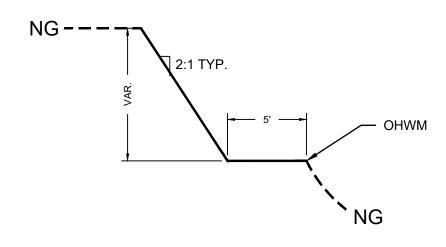
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PROFESSIONAL SEAL





UPSTREAM BENCH GRADING -L- STA 0+00 TO 1+58 NOT TO SCALE

1 inch = 2 ft. VERTICAL





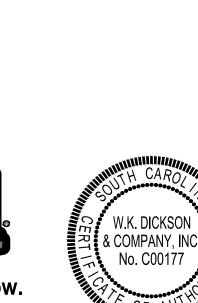
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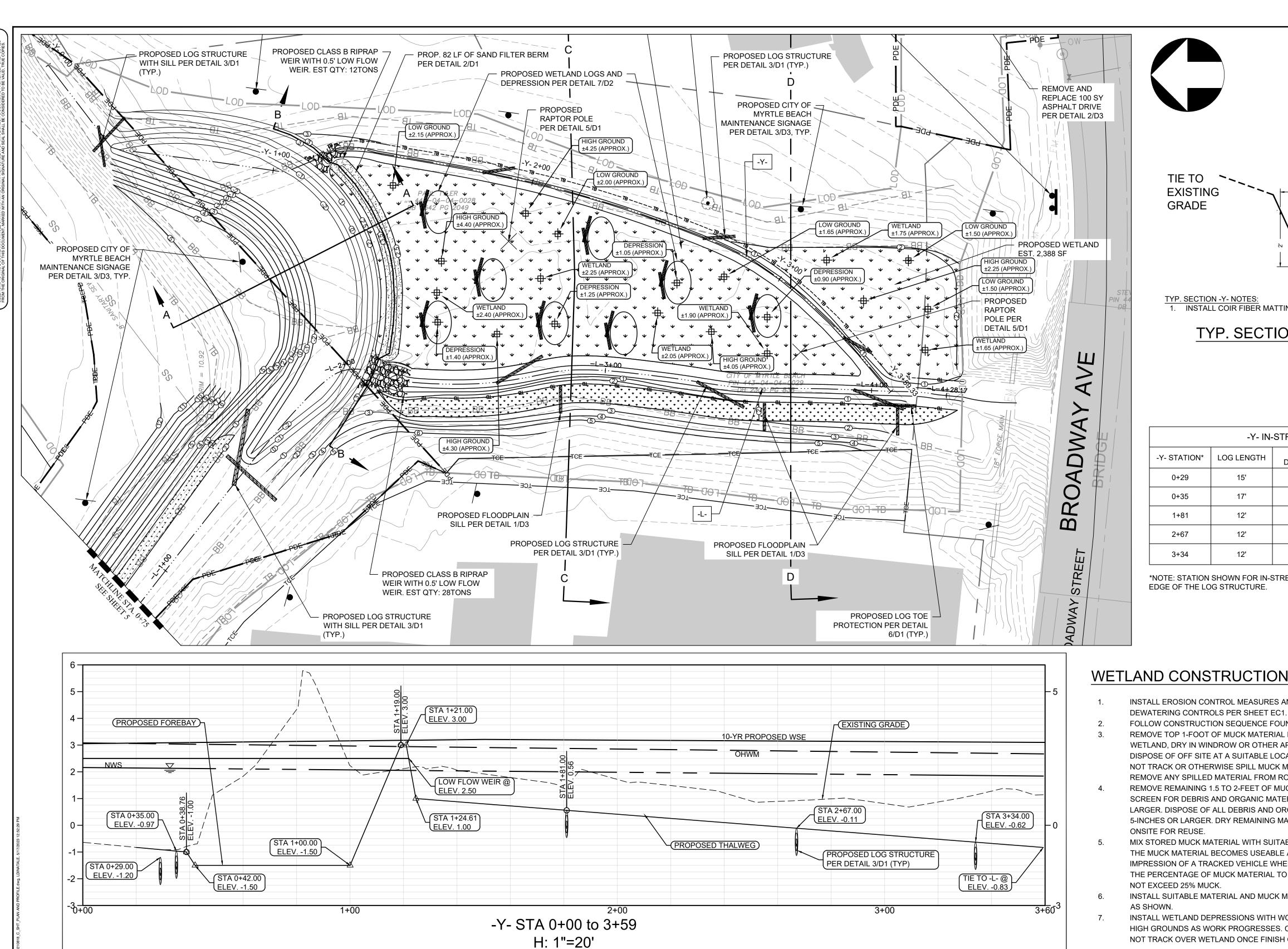
WKD PROJ. NO.: 20210818.00.RA

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V: 1"=2'

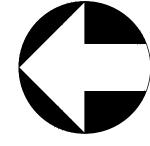
PROPOSED LOG STRUCTURE

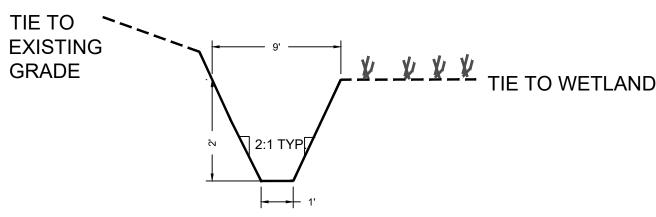
PROPOSED FLOODPLAIN BENCH

PROPOSED SAND/ROCK FILTER

PROPOSED WETLAND

BERM





TYP. SECTION -Y- NOTES: 1. INSTALL COIR FIBER MATTING ON BANKS AS SHOWN IN DETAIL 1/D1.

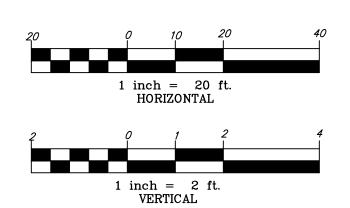
> TYP. SECTION -Y- STA. 0+00 TO 3+59 NOT TO SCALE

| -Y- IN-STREAM LOG STRUCTURE TABLE | | | | | | | | |
|-----------------------------------|------------|-----------------|-------------------|----------------------|-----------------------|--|--|--|
| -Y- STATION* | LOG LENGTH | LOG DIAMETER | NUMBER OF LOGS | NUMBER OF ANCHORS | SILL, VANE, OR TOE | | | |
| 0+29 | 15' | 10" | 2 | 2 | VANE | | | |
| 0+35 | 17' | 10" | 1 | 2 | SILL | | | |
| 1+81 | 12' | 10" | 2 | 2 | VANE | | | |
| 2+67 | 12' | 10" | 2 | 2 | VANE | | | |
| 3+34 | 12' | 10" | 2 | 2 | VANE | | | |

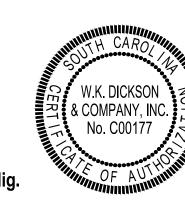
*NOTE: STATION SHOWN FOR IN-STREAM LOG STRUCTURES REFERS TO THE MOST UPSTREAM EDGE OF THE LOG STRUCTURE.

WETLAND CONSTRUCTION SEQUENCE

- INSTALL EROSION CONTROL MEASURES AND APPROVED
- FOLLOW CONSTRUCTION SEQUENCE FOUND ON SHEET EC1.
- REMOVE TOP 1-FOOT OF MUCK MATERIAL FROM EXISTING WETLAND, DRY IN WINDROW OR OTHER APPROVED METHOD AND DISPOSE OF OFF SITE AT A SUITABLE LOCATION BEING SURE TO NOT TRACK OR OTHERWISE SPILL MUCK MATERIAL ON ROADWAY REMOVE ANY SPILLED MATERIAL FROM ROADWAY IMMEDIATELY.
- REMOVE REMAINING 1.5 TO 2-FEET OF MUCK MATERIAL AND SCREEN FOR DEBRIS AND ORGANIC MATERIAL 5-INCHES OR LARGER. DISPOSE OF ALL DEBRIS AND ORGANIC MATERIAL 5-INCHES OR LARGER. DRY REMAINING MATERIAL AND STORE ONSITE FOR REUSE.
- MIX STORED MUCK MATERIAL WITH SUITABLE SOIL SUCH THAT THE MUCK MATERIAL BECOMES USEABLE AND HOLDS THE IMPRESSION OF A TRACKED VEHICLE WHEN LIGHTLY COMPACTED. THE PERCENTAGE OF MUCK MATERIAL TO SUITABLE SOIL SHALL NOT EXCEED 25% MUCK.
- INSTALL SUITABLE MATERIAL AND MUCK MIXTURE TO FINAL GRADE
- INSTALL WETLAND DEPRESSIONS WITH WOODY STRUCTURES AND HIGH GROUNDS AS WORK PROGRESSES. CONTRACTOR SHALL NOT TRACK OVER WETLAND ONCE FINISH GRADE HAS BEEN SET.

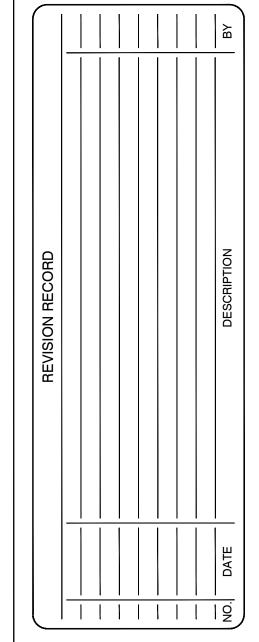






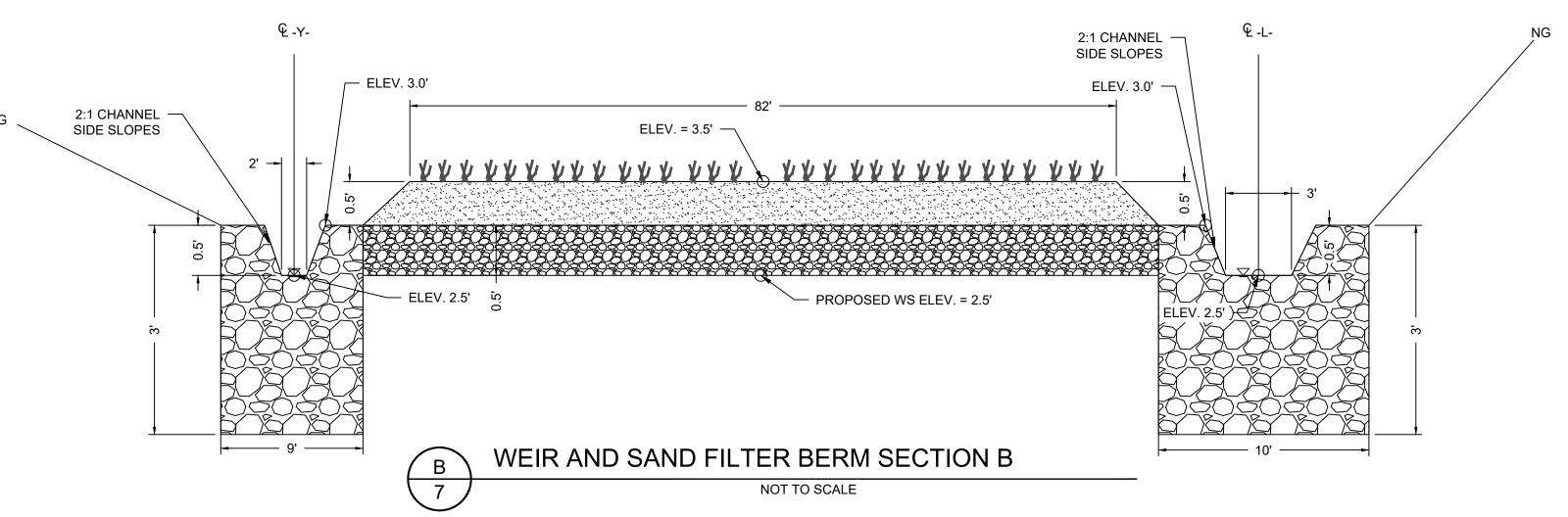
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% DESIGN PLANS - NOT FOR CONSTRUCTION

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NC LICENSE NO.F-0374

PROFESSIONAL SEAL

PROJECT NAME:

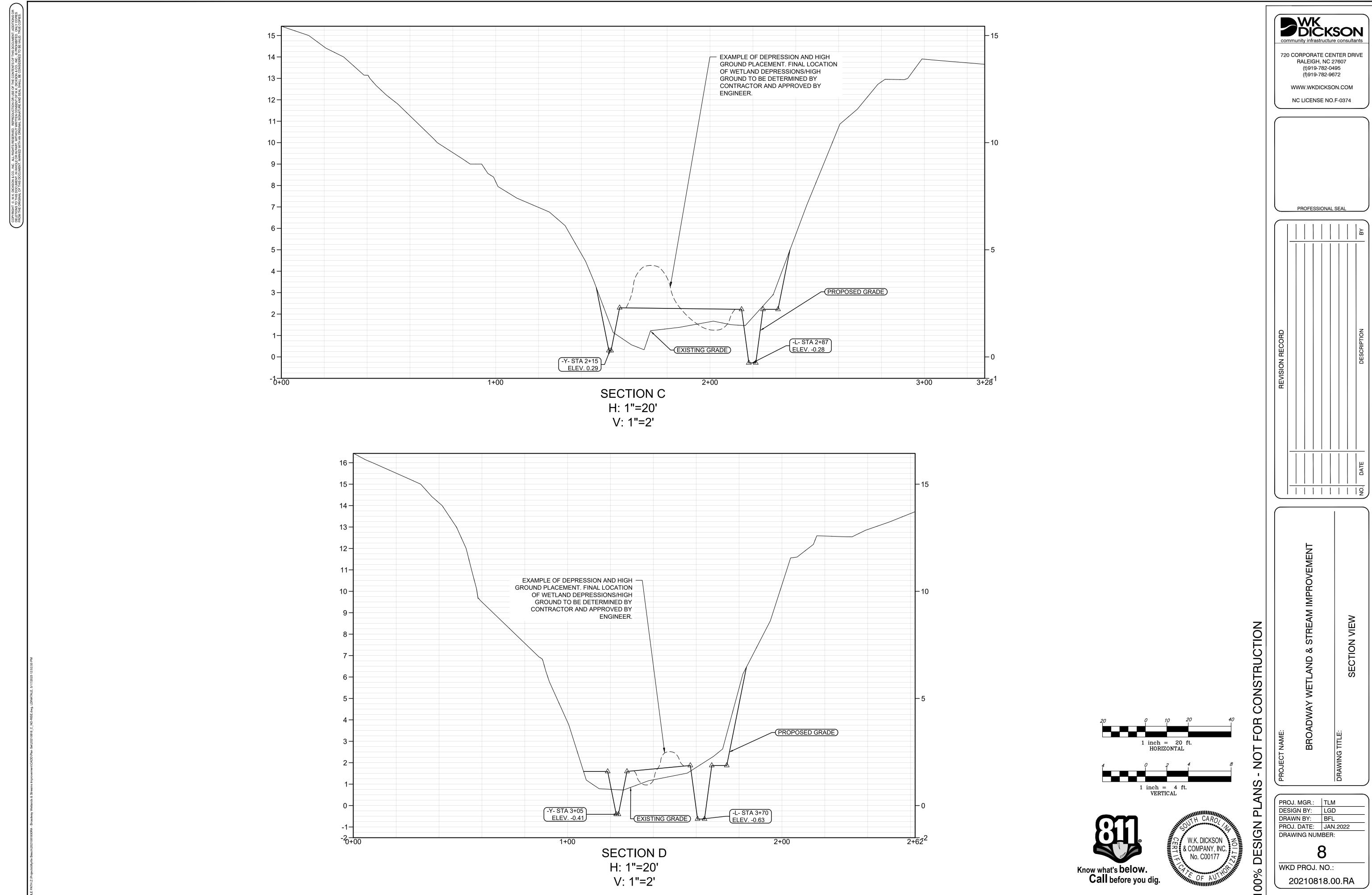
BROADWAY WETLAND & STREAM IMPROVEMENT

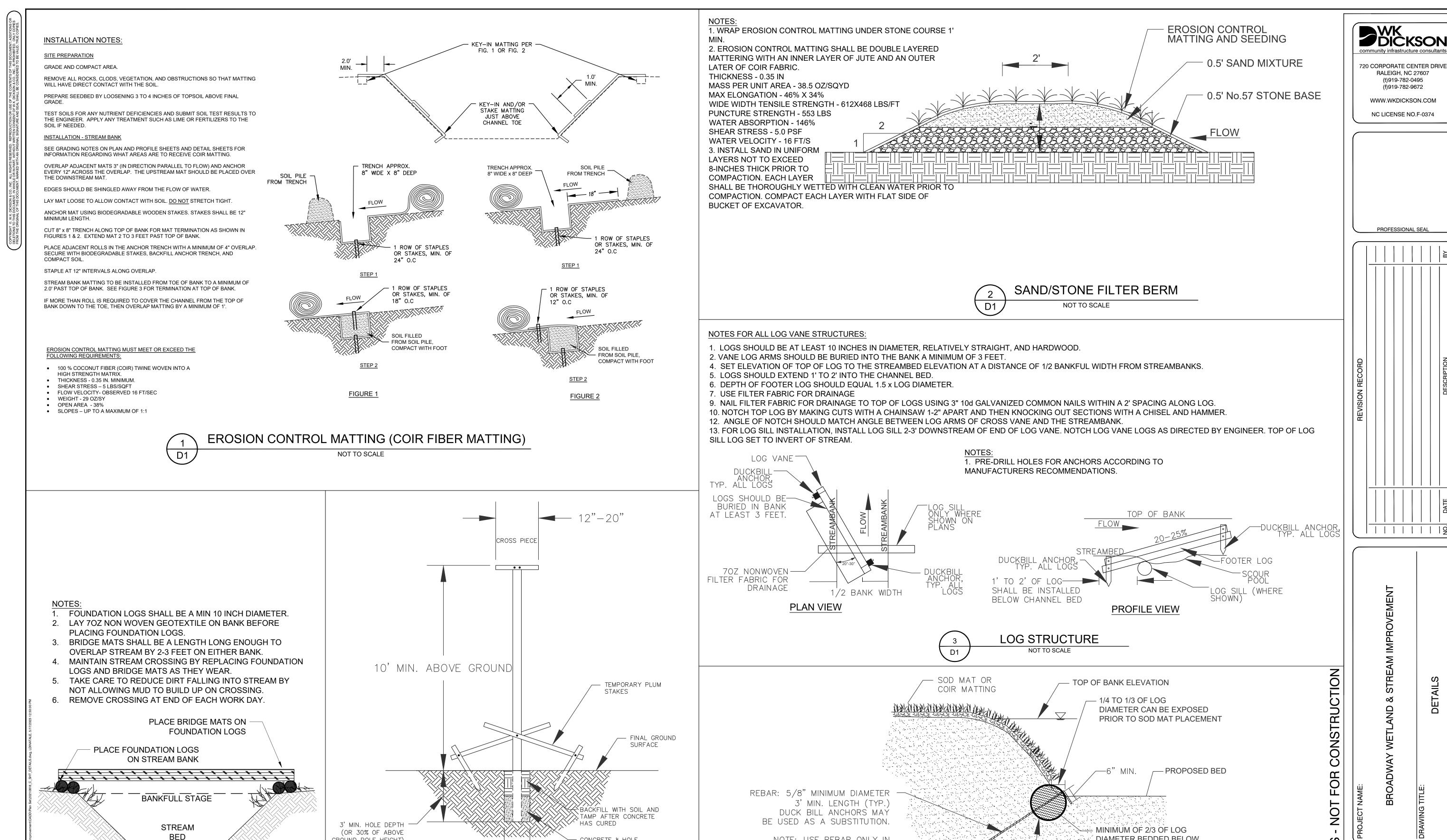
DRAWING TITLE:

SECTION VIEW

PROJ. MGR.: TLM
DESIGN BY: LGD
DRAWN BY: BFL
PROJ. DATE: JAN.2022
DRAWING NUMBER:

7





- CONCRETE 1/2 HOLE

ACCEPTABLE POLE MATERIALS:

4"x4" PRESSURE TREATED SYP

RED CEDAR LOG WITH 6" MIN. LARGE

END DIA. AND 3" MIN. SMALL END DIA.

NOTE: USE REBAR ONLY IN

EXISTING GRADE.

30° TO 45°—

D1

GROUND POLE HEIGHT)

TEMPORARY

STREAM CROSSING

NOT TO SCALE

D1

HOLE DIAMETER AT

D1

LEAST 2 x POLE

DIAMETER

RAPTOR POLE

NOT TO SCALE

PROJ. MGR.: TLM DESIGN BY: LGD DRAWN BY: BFL DRAWING NUMBER: W.K. DICKSON & COMPANY, INC No. C00177 WKD PROJ. NO.:

DIAMETER BEDDED BELOW

EXISTING CHANNEL INVERT

Know what's below.

Call before you dig.

- LOG TOE PROTECTION

LOG TOE PROTECTION

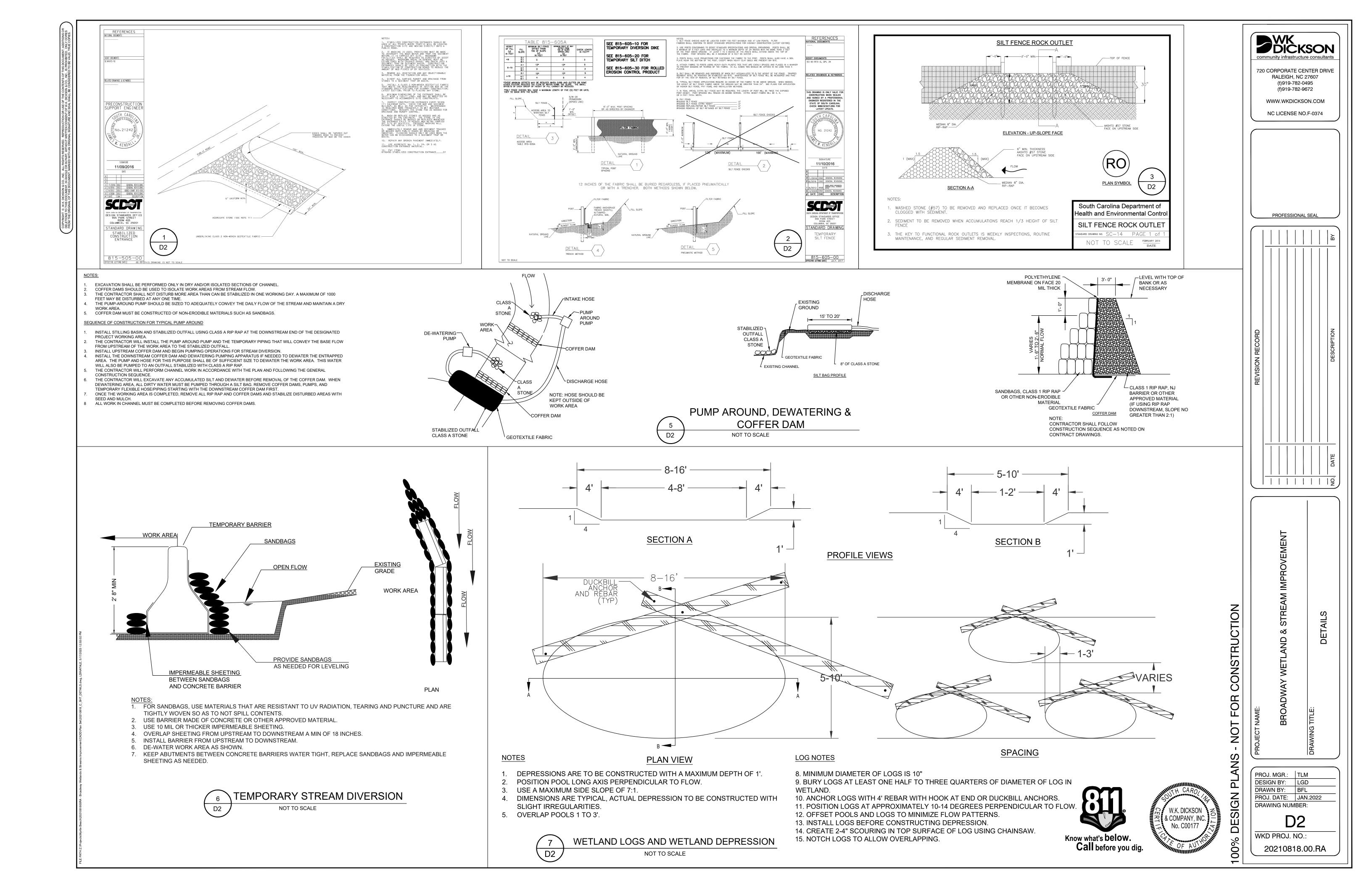
NOT TO SCALE

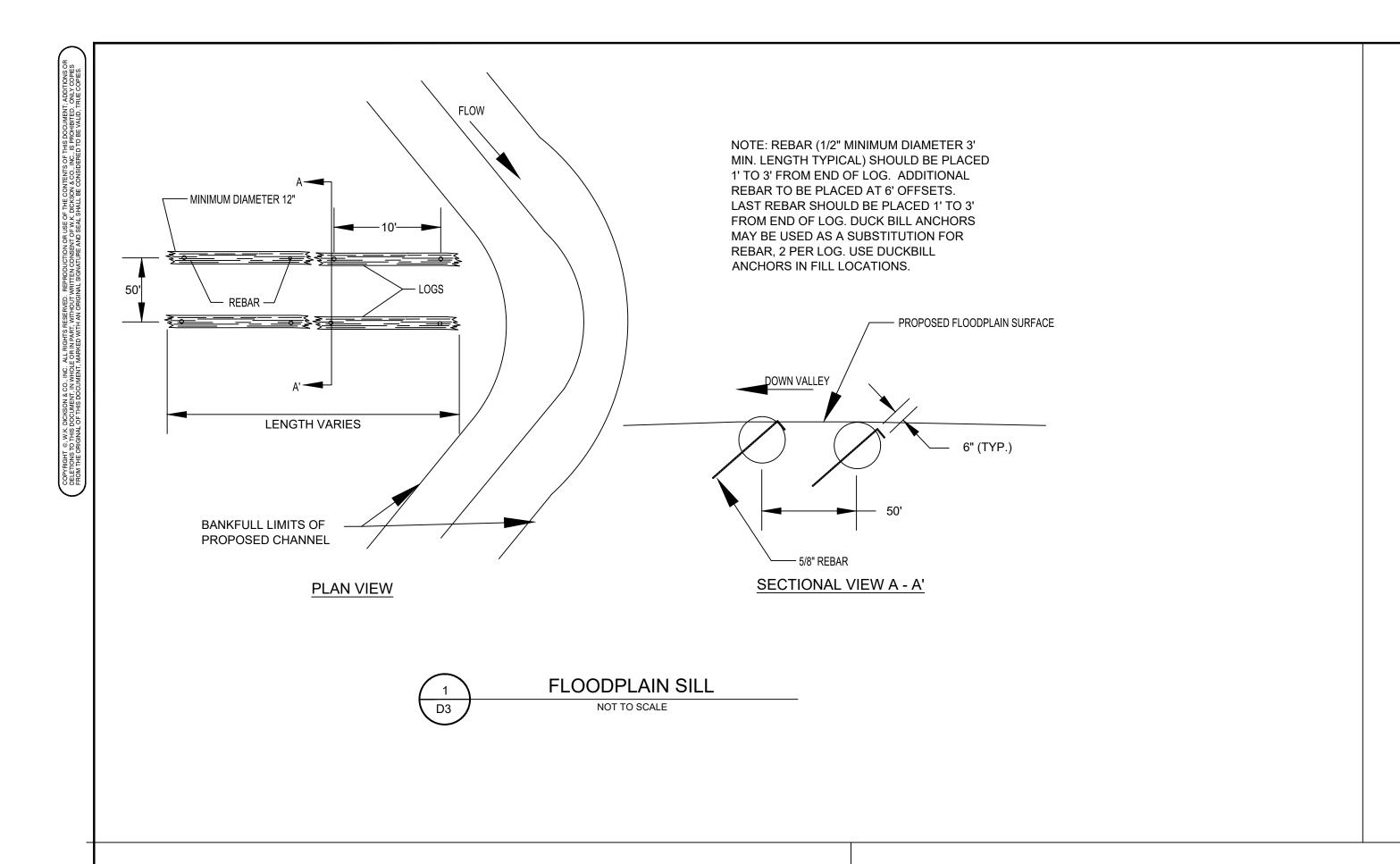
10" MINIMUM LOG

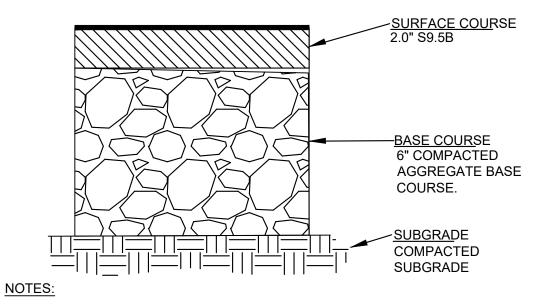
DIAMETER (TYP.)

PROJ. DATE: JAN.2022

20210818.00.RA

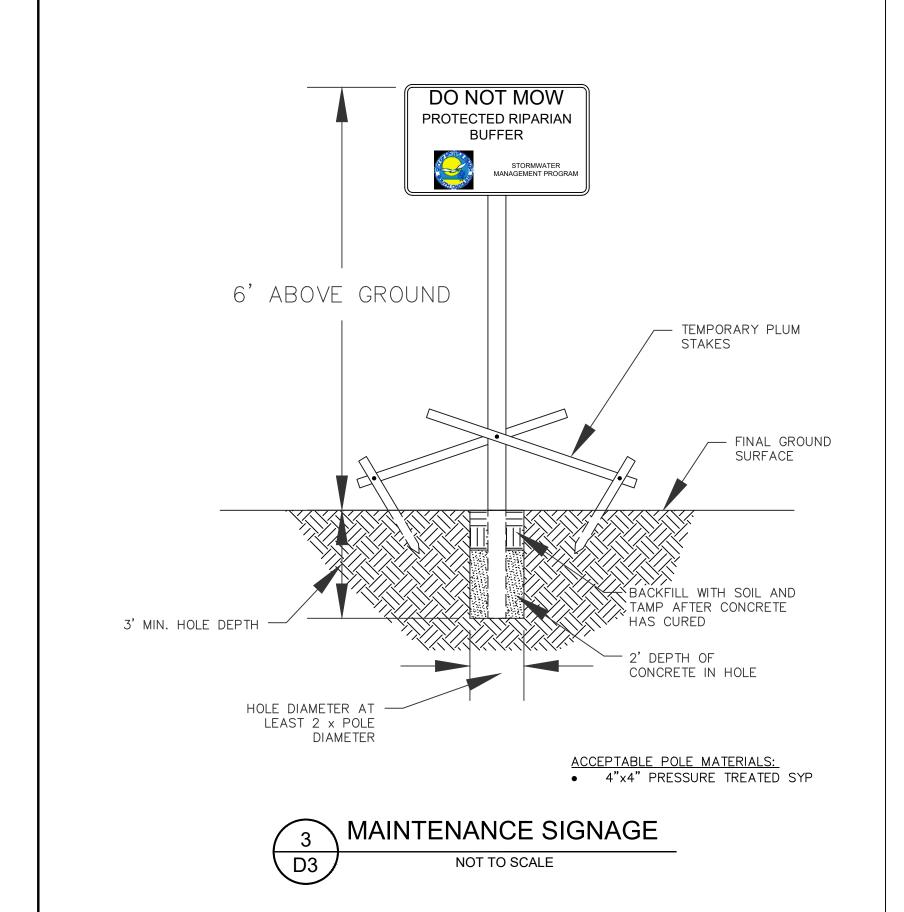


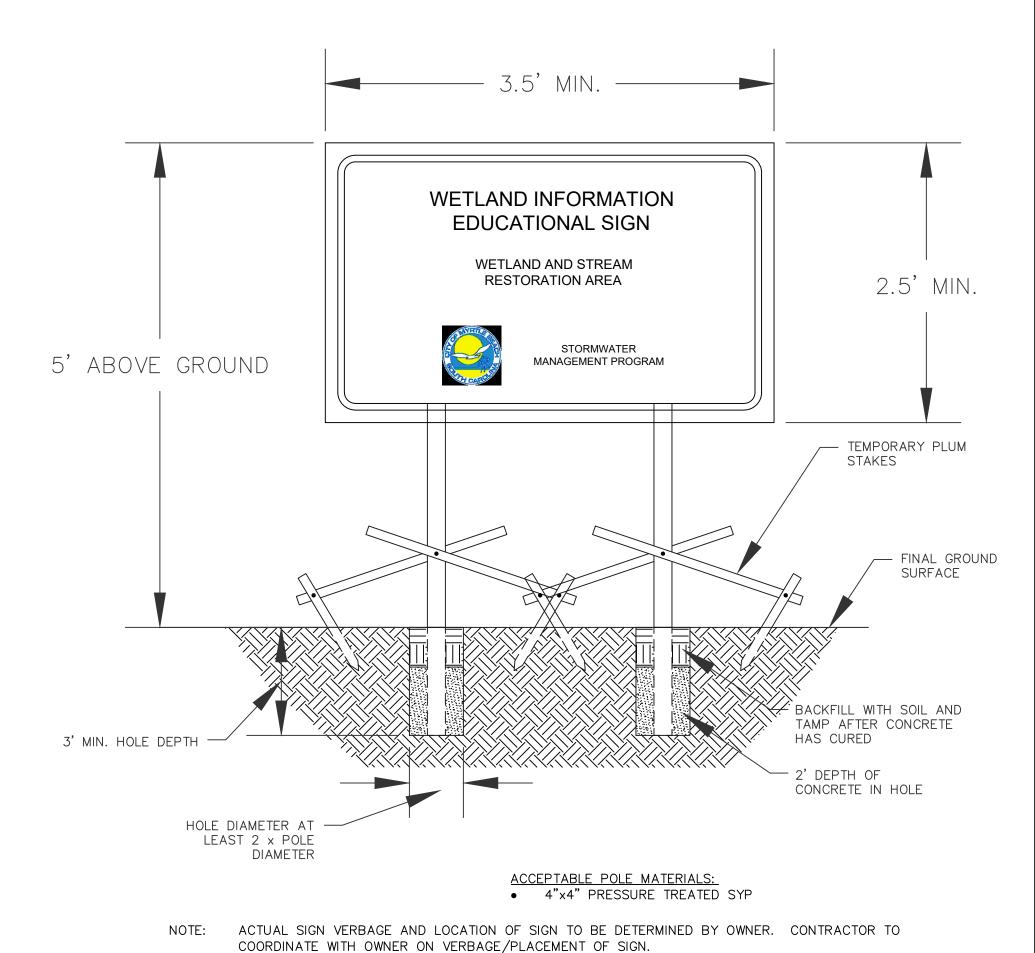




- 1. PROPOSED PAVEMENT SECTION SHALL MATCH EXISTING PAVEMENT SECTION IF DIMENSIONS SHOWN IN THIS DETAIL ARE LESS THAN WHAT IS OBSERVED DURING CONSTRUCTION.
- 2. ALL BASE AND PAVEMENT THICKNESSES SHOWN ARE FINAL COMPACTED THICKNESSES.

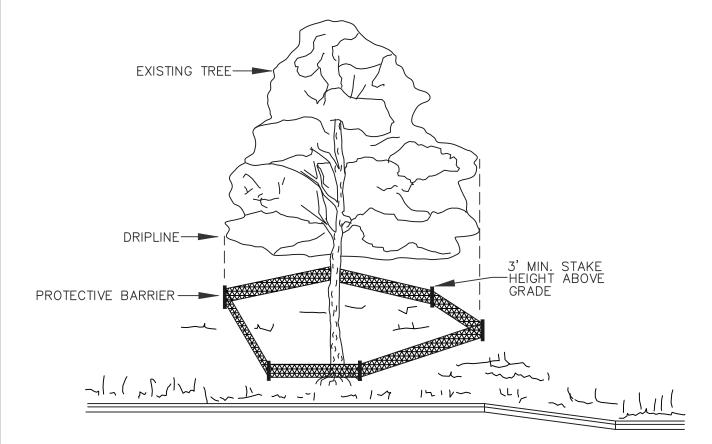






EDUCATIONAL SIGNAGE

NOT TO SCALE



TREES TO BE SAVED WILL BE CLEARLY MARKED PRIOR TO CONSTRUCTION AND HIGH VISIBILITY ORANGE FENCING IS TO BE INSTALLED AT THE DRIPLINE. DRIP LINE — THE AREA OF SOIL DIRECTLY BENEATH THE TREE EXTENDING OUT TO THE TIPS OF THE OUTERMOST BRANCHES.







PROJ. MGR.: TLM

DESIGN BY: LGD DRAWN BY: BFL PROJ. DATE: JAN.2022 DRAWING NUMBER:

WKD PROJ. NO.: 20210818.00.RA

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CONSTRUCTION SEQUENCE:

PHASE

1. INSTALL PERIMETER EROSION CONTROL DEVICES

2. INSTALL CONSTRUCTION ENTRANCE ON BROADWAY STREET

3. REMOVE RIPRAP AT SOUTH END OF EXISTING POND TO PROPOSED GRADE, ALLOW POND TO DEWATER.

4. INSTALL DIVERSION BARRIER 1 ALONG EAST BANK OF POND AND TRIBUTARY AS SHOWN.

5. CONSTRUCT PARTIAL FOREBAY.

6. REMOVE DIVERSION BARRIER 1 AND ALLOW TRIBUTARY TO FLOW THROUGH PARTIAL FOREBAY.

PHASE

1. INSTALL TEMPORARY STREAM CROSSING OVER EXISTING CHANNEL.

2. INSTALL DIVERSION BARRIER 2 AS SHOWN.

3. CONSTRUCT NEW -L- CHANNEL AND BENCH.

4. EXCAVATE UNSUITABLE SOIL AND STORE ONSITE FOR USE IN WETLAND.

5. INSTALL LOG STRUCTURES IN -L- CHANNEL.

6. REMOVE TEMPORARY DIVERSION BARRIER 1 AND ALLOW STREAM FLOW INTO NEW CHANNEL.

PHASE:

1. INSTALL CONSTRUCTION ENTRANCE ON 3RD AVE

2. INSTALL DIVERSION BARRIER 3 AS SHOWN.

3. CONSTRUCT MAINTENANCE PENINSULA

4. REMOVE DIVERSION BARRIER 3.

PHASE 4

1. INSTALL DIVERSION BARRIER 4 AS SHOWN.

2. CONSTRUCT FOREBAY BERM WITH SELECT MATERIAL AND SAND/ROCK FILTER BERM AS SHOWN.

3. CONSTRUCT NEW -Y- CHANNEL.

4. INSTALL LOG STRUCTURES IN -Y- CHANNEL.

5. CONSTRUCT WETLAND AS SHOWN INCLUDING DEPRESSIONS, HUMPS, RAPTOR POLES AND LOG STRUCTURES.

6. REMOVE DIVERSION BARRIER 4.

PHASE 5

1. INSTALL TEMPORARY DAM IN -L- CHANNEL AS SHOWN.

2. INSTALL TEMPORARY PUMP AROUND OF SWASH

3. CONSTRUCT REMAINING FOREBAY AND -L- WEIR

4. INSTALL LOG STRUCTURE.

5. REMOVE TEMPORARY DAM

PHASE 6

1. INSTALL TEMPORARY DAM IN -Y- LINE AS SHOWN

2. INSTALL TEMPORARY PUMP AROUND OF TRIB

3. CONSTRUCT REMAINING FOREBAY.

4. INSTALL LOG STRUCTURE.

5. REMOVE TEMPORARY DAM

PHASE 7

1. INSTALL PLANTING PLAN AS SHOWN.

2. REMOVE TEMPORARY CONSTRUCTION ENTRANCES

3. REMOVE TEMPORARY PERIMETER EROSION CONTROL DEVICES.

**** TREE PROTECTION FENCE (DETAIL 5/D3)

SILT FENCE (DETAIL 2/D2)

TEMPORARY DAM (DETAIL 5/D2)

DIVERSION BARRIER (DETAIL 6/D2)

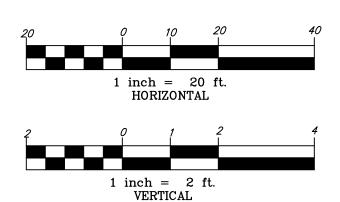
CONSTRUCTION ENTRANCE (DETAIL 1/D2)

TEMPORARY STREAM CROSSING (DETAIL 4/D1)

CONSTRUCTION STAGING AREA

SILT FENCE OUTLET (DETAIL 3/D2)

"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."







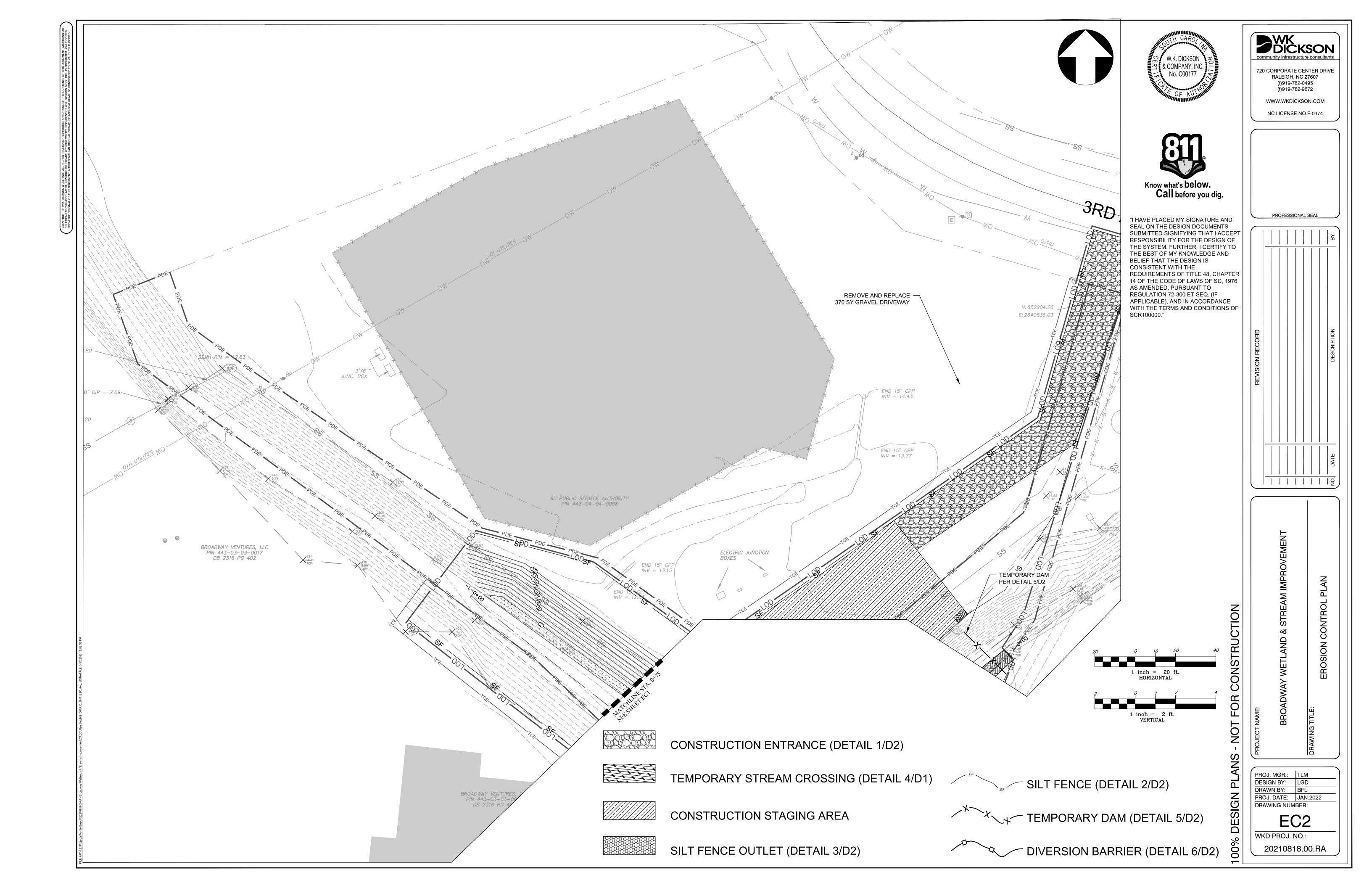
The second community infrastructure consultants

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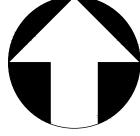
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PROJ. MGR.: TLM
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PROPOSED PLANTING UNITS - SEE SHEET P3 FOR PLANTING SCHEDULES

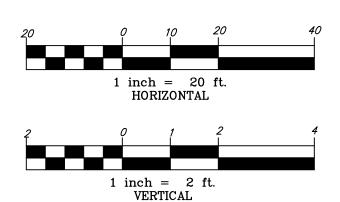
ZONE 1: EMERGENT/SCRUB SHRUB WETLAND

ZONE 2: MESIC UPLAND FOREST

ZONE 3: SAND SEEPAGE BERM

NOTE: ALL DISTURBED UPLAND AREAS WITHIN THE LOD NOT ENCOMPASSED WITHIN PLANTING UNITS TO BE STABILIZED WITH A NATIVE TURFGRASS MIX AT A RATE OF 150 LBS PER ACRE. TURF SEED MIXES TO BE APPROVED BY OWNER AND ENGINEER PRIOR TO INSTALLATION.

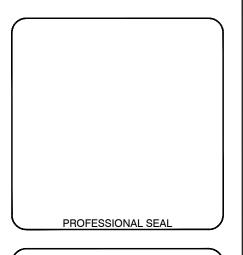
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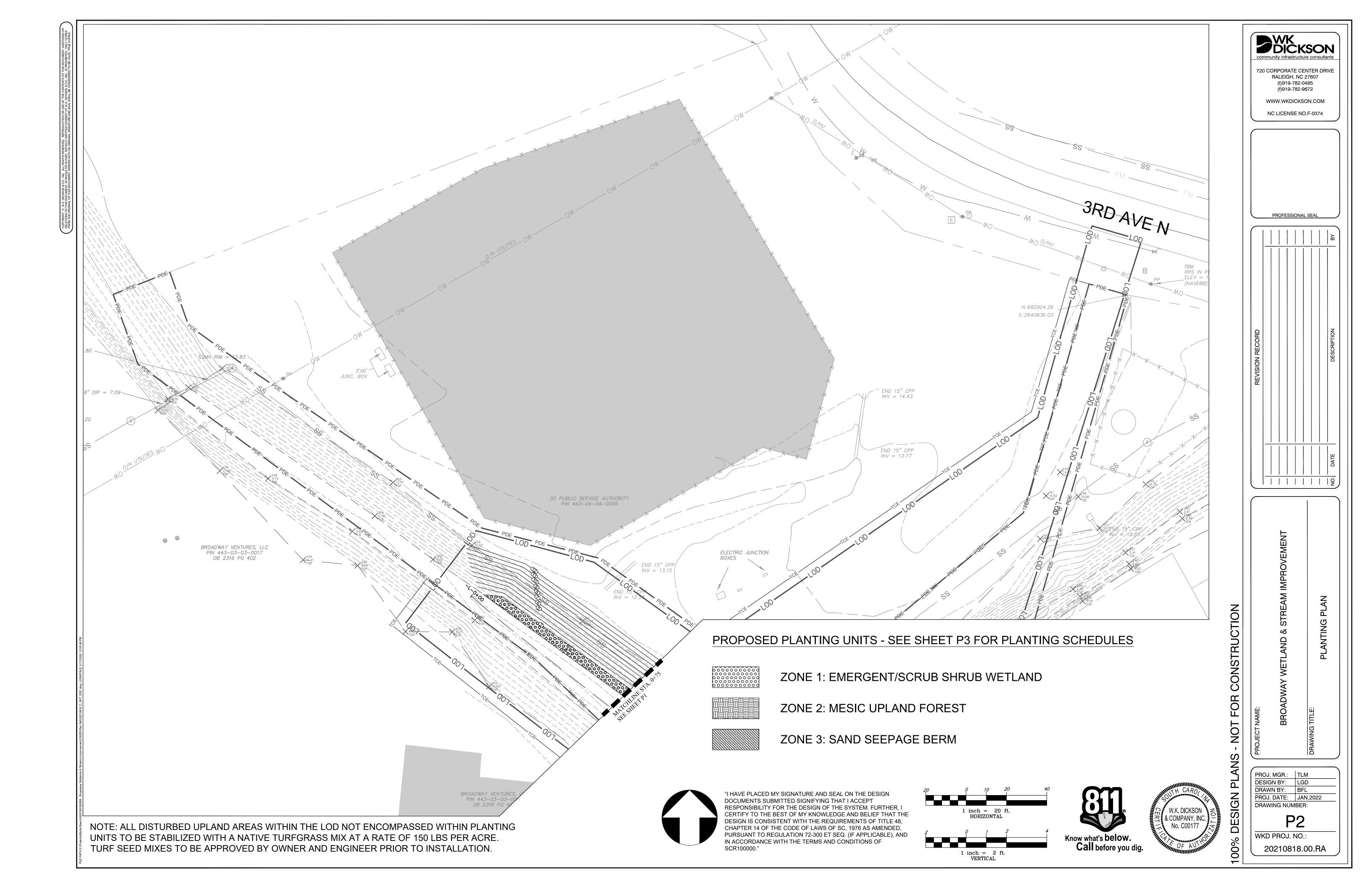


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| | | | B |
|-----------------|--|--|-------------|
| REVISION RECORD | | | DESCRIPTION |
| | | | NO. DATE |
| | | | 19 |

PROJ. MGR.: TLM DESIGN BY: LGD DRAWN BY: BFL PROJ. DATE: JAN.2022 DRAWING NUMBER:



| PLANT | | | | | | | | | |
|--------------------------|-------------------------|--|--|---|---|---|---|---|--|
| COMPOSITION SCHEDULE | | | | | | | | | |
| ZONE 1 - | | | | | | | | | |
| EMERGENT/SC | | | | | | | | | |
| RUB SHRUB | | | | | | | | Size (acres): | 0.05 |
| WETLAND Individual Plant | | | | | | | | Oize (acres). | 0.25 |
| Minimum Spacing (ft.) | Quantity per acre | Frequency (%) | Species Quantity | Species Name | Common Name | Unit | Spacing Type | Size | Overall Minimum Species Spacing (ft.) |
| 8 | 681 | | | | NATIVE SH | RUBS | | | |
| | | 25 | 43 | Hibiscus moscheutos | Rose mallow | CON | RANDOM | #3 | 4 |
| | | 30 | 52 | Cephalanthus occidentalis | Buttonbush | CON | RANDOM | #3 | 4 |
| | | 25 | 43 | Clethra alnifolia | Sweet pepperbush | CON | RANDOM | #3 | 4 |
| | | 10 | 17 | llex glabra | Inkberry | CON | RANDOM | #3 | 5 |
| | | 10 | 17 | Sambucus canadensis | Elderberry | CON | RANDOM | #3 | 5 |
| | | 100 | 172 | = total | | | | | |
| 1 | 43560 | | | | NATIVE HERBACE | OUS PLANTS | | | |
| | | 10 | 1104 | Juncus effusus | Soft rush | PLUG | RANDOM | 2-INCH | 2 |
| | | 10 | 1104 | Carex crinita | Fringed sedge | PLUG | RANDOM | 2-INCH | 2 |
| | | 15 | 1657 | Carex Iurida | Lurid sedge | PLUG | RANDOM | 2-INCH | 2 |
| | | 10 | 1104 | Carex stricta | Tussock sedge | PLUG | RANDOM | 2-INCH | 2 |
| | | 10 | 1104 | Scirpus cyperinus | Woolgrass | PLUG | RANDOM | 2-INCH | 2 |
| | | 20 | 2209 | Schoenoplectus acutus | Hard-stem bulrush | PLUG | RANDOM | 2-INCH | 2 |
| | | 25 | 2761 | Schoenoplectus pungens | Three square rush | PLUG | RANDOM | 2-INCH | 2 |
| | | 100 | 11043 | = total | | I. | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | Size (acres): | 0.25 |
| | Quantity per acre (lbs) | Frequency (%) | Species Quantity | Species Name | Common Name | Unit | Spacing Type | Size | Overall Minimum Species Spacing (ft.) |
| | 6 | | | Nati | ve Seed Mix - Similar to | Poundstone Mix | , #4 20 | | |
| | 0 | 23.4 | 0.36 | Elymus virginicus | Virginia Wild Rye | PLS | N/A | N/A | N/A |
| | | | | Andropogon virginicus | Broomsedge | | | | |
| | | 2.0 | 0.03 | | - | PLS | N/A | N/A | N/A |
| | | 18.7 | 0.29 | Panicum clandestinum | Deer Tongue Grass | PLS | N/A | N/A | N/A |
| | | 1.6 | 0.02 | Agrostis perennans | Upland Bentgrass | PLS | N/A | N/A | N/A |
| | | 3.9 | 0.06 | Panicum rigidulum | Red Top Panicum | PLS | N/A | N/A | N/A |
| | | 2.3 | 0.04 | Carex crinita | Nodding Sedge | PLS | N/A | N/A | N/A |
| | | 2.3 | 0.04 | Carex lupulina | Hop Sedge | PLS | N/A | N/A | N/A |
| | | 5.5 | 0.08 | Carex lurida | Shallow Sedge | PLS | N/A | N/A | N/A |
| | | 1.2 | 0.02 | Juncus tenuis | Path Rush | PLS | N/A | N/A | N/A |
| | | 1.6 | 0.02 | Scirpus cyperinus | Wool Grass | PLS | N/A | N/A | N/A |
| | | 1.0 | 0.02 | Pycnanthemum | Week Glass | 1.20 | 14// 1 | 14// (| 14/71 |
| | | 0.5 | 0.01 | virginianum | Virginia Mountain Mint | PLS | N/A | N/A | N/A |
| | | 1.2 | 0.02 | Penstemon digitalis | Smooth Beardtongue | PLS | N/A | N/A | N/A |
| | | 1 — — — — — — — — — — — — — — — — — — — | | | | | | N/A | N/A |
| | | 2.5 | 0.04 | Tradescantia ohiensis | Ohio Spiderwort | PLS | N/A | IN/A | |
| | | 2.5 5.8 | 0.04 | Tradescantia ohiensis Liatris spicata | Ohio Spiderwort Spiked Blazing Star | PLS PLS | N/A N/A | N/A | N/A |
| | | | | | | | | | N/A N/A |
| | | 5.8 1.1 | 0.09 | Liatris spicata Silphium perfoliatum | Spiked Blazing Star Cup Plant | PLS PLS | N/A N/A | N/A N/A | N/A |
| | | 5.8 1.1 1.0 | 0.09 0.02 0.02 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia | Spiked Blazing Star Cup Plant Seed Box | PLS PLS PLS | N/A N/A N/A | N/A N/A N/A | N/A N/A |
| | | 5.8 1.1 1.0 2.3 | 0.09 0.02 0.02 0.04 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata | Spiked Blazing Star Cup Plant Seed Box Blue Vervain | PLS PLS PLS | N/A N/A N/A N/A | N/A N/A N/A | N/A N/A N/A |
| | | 5.8 1.1 1.0 2.3 2.4 | 0.09 0.02 0.02 0.04 0.04 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed | PLS PLS PLS PLS | N/A N/A N/A N/A N/A | N/A N/A N/A N/A | N/A N/A N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 | 0.09 0.02 0.02 0.04 0.04 0.11 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed | PLS PLS PLS PLS PLS | N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A |
| | | 5.8 1.1 1.0 2.3 2.4 | 0.09 0.02 0.02 0.04 0.04 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed | PLS PLS PLS PLS PLS PLS | N/A N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 | 0.09 0.02 0.02 0.04 0.04 0.11 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed Sneezeweed | PLS PLS PLS PLS PLS | N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 1.1 | 0.09 0.02 0.02 0.04 0.04 0.11 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa Eupatorium fistulosum | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed | PLS PLS PLS PLS PLS PLS | N/A N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 1.1 | 0.09 0.02 0.02 0.04 0.04 0.11 0.02 0.02 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa Eupatorium fistulosum Helenium autumnale | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed Sneezeweed | PLS PLS PLS PLS PLS PLS PLS PLS | N/A | N/A N/A N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 1.1 1.1 0.2 | 0.09 0.02 0.02 0.04 0.04 0.11 0.02 0.02 0.00 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa Eupatorium fistulosum Helenium autumnale Mimulus ringens | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed Sneezeweed Monkey Flower | PLS PLS PLS PLS PLS PLS PLS PLS PLS | N/A | N/A | N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 1.1 1.1 0.2 3.5 5.3 | 0.09 0.02 0.02 0.04 0.04 0.11 0.02 0.02 0.00 0.05 0.08 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa Eupatorium fistulosum Helenium autumnale Mimulus ringens Vernonia altissima Verbesina alternifolia | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed Sneezeweed Monkey Flower Iron Weed Yellow Wingstem Narrow-Leaved | PLS | N/A | N/A | N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 1.1 1.1 0.2 3.5 | 0.09 0.02 0.02 0.04 0.04 0.11 0.02 0.02 0.00 0.05 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa Eupatorium fistulosum Helenium autumnale Mimulus ringens Vernonia altissima | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed Sneezeweed Monkey Flower Iron Weed Yellow Wingstem | PLS | N/A | N/A | N/A |
| | | 5.8 1.1 1.0 2.3 2.4 7.2 1.1 1.1 0.2 3.5 5.3 2.3 100 | 0.09 0.02 0.02 0.04 0.04 0.11 0.02 0.02 0.00 0.05 0.08 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa Eupatorium fistulosum Helenium autumnale Mimulus ringens Vernonia altissima Verbesina alternifolia | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed Sneezeweed Monkey Flower Iron Weed Yellow Wingstem Narrow-Leaved | PLS | N/A | N/A | N/A |
| | *CON = container; | 5.8 1.1 1.0 2.3 2.4 7.2 1.1 1.1 0.2 3.5 5.3 2.3 | 0.09 0.02 0.02 0.04 0.04 0.11 0.02 0.02 0.00 0.05 0.08 | Liatris spicata Silphium perfoliatum Ludwigia alternifolia Verbena hastata Asclepias incarnata Bidens aristosa Eupatorium fistulosum Helenium autumnale Mimulus ringens Vernonia altissima Verbesina alternifolia | Spiked Blazing Star Cup Plant Seed Box Blue Vervain Swamp Milkweed Showy Tickseed Joe-Pye Weed Sneezeweed Monkey Flower Iron Weed Yellow Wingstem Narrow-Leaved | PLS | N/A | N/A | N/A |

| PLANT COMPOSITION SCHEDULE | | | | | | | | | |
|--|-------------------------|---|--|---|---|---|---|---|---|
| ZONE 2 - MESIC UPLAND FOREST | | | | | | | | Size (acres): | 0.09 |
| Individual Plant Minimum Spacing (ft.) | Quantity per acre | Frequency (%) | Species Quantity | Species Name | Common Name | Unit | Spacing Type | Size | Overall Minimum Species Spacing (|
| 10 | 436 | | | | NATIVE TREES | | | | |
| | | 15 | 6 | Acer rubrum | Red maple | CON | RANDOM | #7 | 18 |
| | | 15 | 6 | Magnolia virginiana | Sweetbay magnolia | CON | RANDOM | #7 | 18 |
| | | 15 | 6 | Quercus virginiana | Live oak | CON | RANDOM | #7 | 18 |
| | | 10 | 4 | Pinus taeda | Loblolly pine | CON | RANDOM | #7 | 18 |
| | | 15 | 6 | Juniperus virginiana | Eastern red cedar | CON | RANDOM | #7 | 18 |
| | | 15 | 6 | Liquidambar styraciflua | Sweetgum | CON | RANDOM | #7 | 18 |
| | | 15 | 6 | Quercus phellos | Willow oak | CON | RANDOM | #7 | 18 |
| 8 | 681 | 100 | 40 | = total | NATIVE SHRUBS | | | | |
| 8 | 001 | 15 | 9 | Lyonia lucida | Fetterbush | CON | RANDOM | #3 | 5 |
| | | 15 | 9 | llex verticillata | Winterberry | CON | RANDOM | #3 | 5 |
| | | 15 | 9 | Lindera benzoin | Spicebush | CON | RANDOM | #3 | 5 |
| | | 25 | 15 | Clethra alnifolia | Sweet pepperbush | CON | RANDOM | #3 | 4 |
| | | 15 | 9 | Itea virginica | Virginia sweetspire | CON | RANDOM | #3 | 5 |
| | | 15 | 9 | Sambucus canadensis | Elderberry | CON | RANDOM | #3 | 5 |
| | | 100 | 60 | = total | | | | | |
| | | | | | | | | | |
| | | | | | | | | Size (acres): | 0.09 |
| | Quantity per acre (lbs) | Frequency (%) | Species Quantity | Species Name | Common Name | Unit | Spacing Type | Size | Overall Minimus Species Spacing |
| | 10 | Native Seed Mix-Similar to Roundstone Mix #120 | | | | | | | |
| | | 25.0 | 0.22 | Elymus virginicus | Virginia Wild Rye | PLS | N/A | N/A | N/A |
| | | 18.7 | 0.16 | Panicum anceps | Fall Panicum | PLS | N/A | N/A | N/A |
| | | | | | | | | | N1/A |
| | | 15.6 | 0.13 | Panicum virgatum | Switchgrass - GA Ecotype | PLS | N/A | N/A | I IN/A |
| | | 15.6 | 0.13 | Panicum virgatum | Switchgrass - GA Ecotype | PLS | N/A | N/A | N/A |
| | | 3.1 | 0.03 | Glyceria striata | Fowl Manna Grass | PLS | N/A | N/A | N/A |
| | | 3.1 1.2 | 0.03 | Glyceria striata Asclepias tuberosa | Fowl Manna Grass Butterfly Milkweed | PLS PLS | N/A N/A | N/A N/A | N/A N/A |
| | | 3.1 1.2 0.8 | 0.03 0.01 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis | PLS PLS PLS | N/A N/A N/A | N/A N/A N/A | N/A N/A N/A |
| | | 3.1 1.2 | 0.03 | Glyceria striata Asclepias tuberosa | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue | PLS PLS | N/A N/A | N/A N/A | N/A N/A |
| | | 3.1 1.2 0.8 | 0.03 0.01 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis | PLS PLS PLS | N/A N/A N/A | N/A N/A N/A | N/A N/A N/A |
| | | 3.1 1.2 0.8 0.9 | 0.03 0.01 0.01 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue | PLS PLS PLS | N/A N/A N/A | N/A N/A N/A N/A | N/A N/A N/A N/A |
| | | 3.1 1.2 0.8 0.9 2.4 | 0.03 0.01 0.01 0.01 0.02 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan | PLS PLS PLS PLS | N/A N/A N/A N/A | N/A N/A N/A N/A | N/A N/A N/A N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 | 0.03 0.01 0.01 0.01 0.02 0.02 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort | PLS PLS PLS PLS PLS PLS | N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 | 0.03 0.01 0.01 0.01 0.02 0.02 0.06 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower | PLS PLS PLS PLS PLS PLS | N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 | 0.03 0.01 0.01 0.01 0.02 0.02 0.06 0.03 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant | PLS PLS PLS PLS PLS PLS PLS | N/A N/A N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A N/A N/A | N/A N/A N/A N/A N/A N/A N/A N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot | PLS PLS PLS PLS PLS PLS PLS PLS PLS | N/A | N/A | N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 7.0 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 0.06 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa Heliopsis helianthoides | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot False Sunflower | PLS | N/A | N/A | N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 7.0 1.4 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 0.06 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa Heliopsis helianthoides Liatris gracilis | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot False Sunflower Slender Blazing Star | PLS | N/A | N/A | N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 7.0 1.4 0.8 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 0.06 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa Heliopsis helianthoides Liatris gracilis Helenium autumnale | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot False Sunflower Slender Blazing Star Sneezeweed | PLS | N/A | N/A | N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 7.0 1.4 0.8 1.0 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 0.06 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa Heliopsis helianthoides Liatris gracilis Helenium autumnale Euthamia graminifolia | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot False Sunflower Slender Blazing Star Sneezeweed Lance Leaved Goldenrod | PLS | N/A | N/A | N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 7.0 1.4 0.8 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 0.06 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa Heliopsis helianthoides Liatris gracilis Helenium autumnale Euthamia graminifolia Asclepias incarnata | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot False Sunflower Slender Blazing Star Sneezeweed Lance Leaved Goldenrod Swamp Milkweed | PLS | N/A | N/A | N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 7.0 1.4 0.8 1.0 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 0.06 0.01 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa Heliopsis helianthoides Liatris gracilis Helenium autumnale Euthamia graminifolia | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot False Sunflower Slender Blazing Star Sneezeweed Lance Leaved Goldenrod | PLS | N/A | N/A | N/A |
| | | 3.1 1.2 0.8 0.9 2.4 1.8 7.4 3.9 0.5 0.8 7.0 1.4 0.8 1.0 1.3 | 0.03 0.01 0.01 0.02 0.02 0.06 0.03 0.00 0.01 0.06 0.01 0.01 0.01 | Glyceria striata Asclepias tuberosa Coreopsis tinctoria Penstemon digitalis Rudbeckia hirta Tradescantia ohiensis Echinacea purpurea Silphium perfoliatum Ludwigia alternifolia Monarda fistulosa Heliopsis helianthoides Liatris gracilis Helenium autumnale Euthamia graminifolia Asclepias incarnata | Fowl Manna Grass Butterfly Milkweed Plains Coreopsis Smooth Beardtongue Blackeyed Susan Ohio Spiderwort Purple Coneflower Cup Plant Seed Box Bergamot False Sunflower Slender Blazing Star Sneezeweed Lance Leaved Goldenrod Swamp Milkweed | PLS | N/A | N/A | N/A |

- 1. ALL DISTURBED UPLAND AREAS WITHIN THE LOD NOT ENCOMPASSED WITHIN PLANTING UNITS TO BE STABILIZED WITH A NATIVE TURFGRASS MIX AT A RATE OF 150 LBS PER ACRE. TURF SEED MIXES TO BE APPROVED BY OWNER AND ENGINEER PRIOR TO INSTALLATION.
- 2. ALL PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON SHEET P4.

"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,

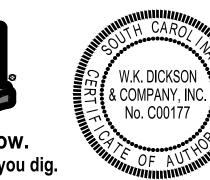
IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF

SCR100000."

PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND

Know what's below.

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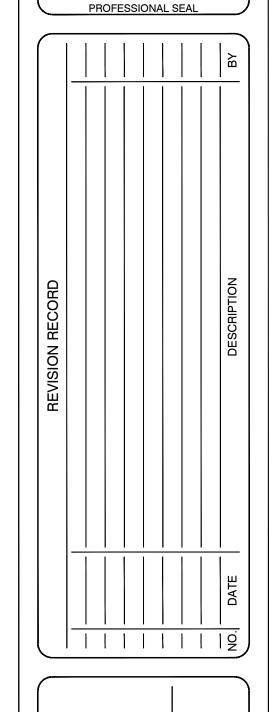


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