



BETHEL RURAL FIRE  
 PARCEL ID: 563-00-00-002  
 DB: 13388 PG: 284  
 PB: E191 PG: 10  
 USE: FIRE DEPARTMENT

CLOVER SCHOOL DISTRICT #2  
 PARCEL ID: 478-00-00-098  
 DB: 7459 PG: 67  
 PB: D32 PG: 4  
 USE: SCHOOL

BETHEL RURAL FIRE  
 PARCEL ID: 563-00-00-002  
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N 12°03'34" E 204.37' 3/4" REBAR (PF) N 12°12'54" E 227.67' 1" OPEN TOP (PF) N 12°09'08" E 486.82'

N 12°10'23" E 191.83'

BOAT/RV STORAGE AREA

EX. OFFICE BLDG.  
 1800 OFFICE/1650 STORAGE

EX. STORAGE BLDG.

EX. STORAGE BLDG.

EX. STORAGE BLDG.

EX. STORAGE BLDG.

EX. STORAGE BLDG.

PID  
 563-00-00-005  
 AREA = 5.24 ACRES

PID  
 563-00-00-021  
 LAKE WYLIE  
 ENTERPRISES, INC  
 9.82 ACRES

CONTRACTOR TO COORDINATE  
 WITH DUKE TO RELOCATE  
 POWER LINES

PID  
 563-00-00-021  
 LAKE WYLIE  
 ENTERPRISES, INC

PID  
 563-00-00-021  
 LAKE WYLIE  
 ENTERPRISES, INC

ALEXANDER GRACE D  
 PARCEL ID: 563-00-00-004  
 DB: 6829 PG: 65  
 PB: D370 PG: 8  
 USE: RESIDENTIAL

ALEXANDER GRACE D, GOLDBERG KELLY A  
 PARCEL ID: 563-00-00-024  
 DB: 13831 PG: 1747  
 PB: D370 PG: 8  
 USE: VACCANT

LINE	BEARING	DISTANCE
L1	S 12°09'50" W	42.77'
L2	S 78°13'00" E	15.05'
L3	S 78°14'31" E	60.01'

SAW CUT AND DEMO  
 EXISTING ASPHALT

N 77°36'18" W 315.61'

N 76°35'04" W 219.73'


S 12°03'38" W 1079.60'

S 78°24'49" E 608.66'

ALEXANDER-GRACE D, GOLDBERG KELLY A  
 PARCEL ID: 563-00-00-024  
 DB: 13831 PG: 1747  
 PB: D370 PG: 8  
 USE: VACCANT

APPROVALS	
Project Engr:	_____
Drawn By:	_____
Checked By:	_____
Review:	_____
Bid:	_____
Construction:	_____

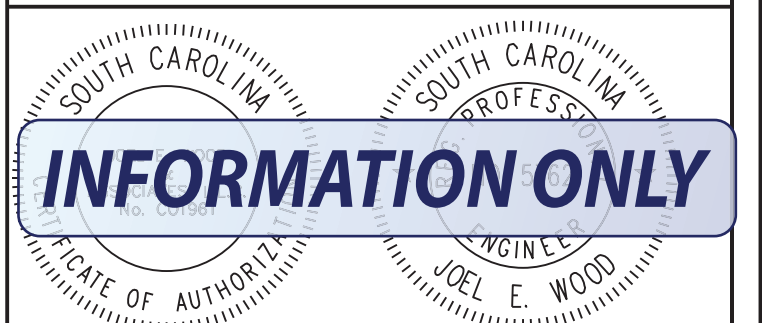
PREPARED BY



**JOEL E. WOOD & ASSOCIATES**  
 PLANNING • ENGINEERING • MANAGEMENT

P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390

SEALS



**INFORMATION ONLY**

PROJECT

**LAKE WYLIE MINI STORAGE ADDITION**

YORK COUNTY, SOUTH CAROLINA  
 PREPARED FOR  
**GREG SMITH**

SHEET TITLE

**EXISTING CONDITIONS**

NO.	DATE	REVISIONS	BY

SCALE: 1" = 40'

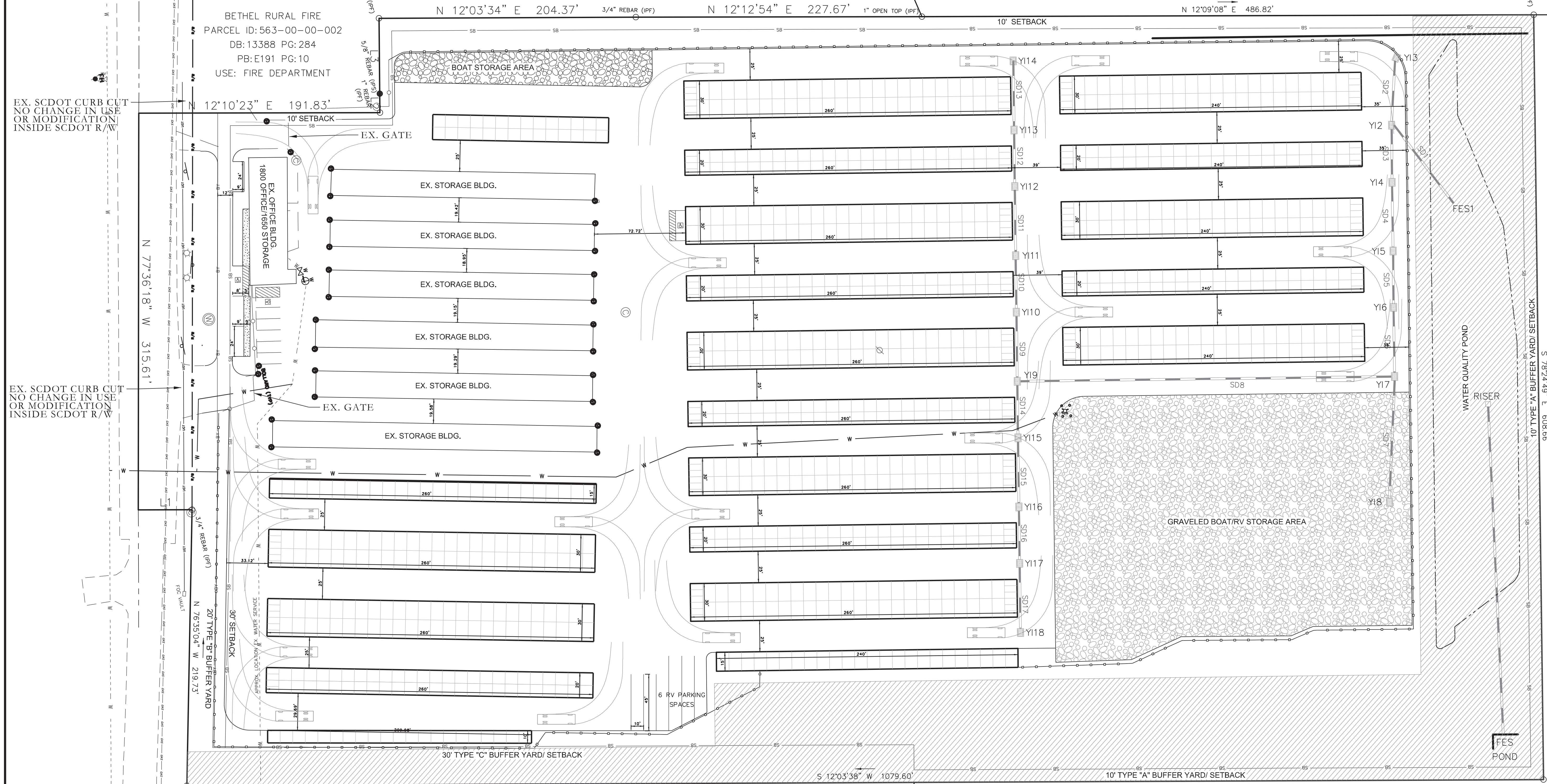
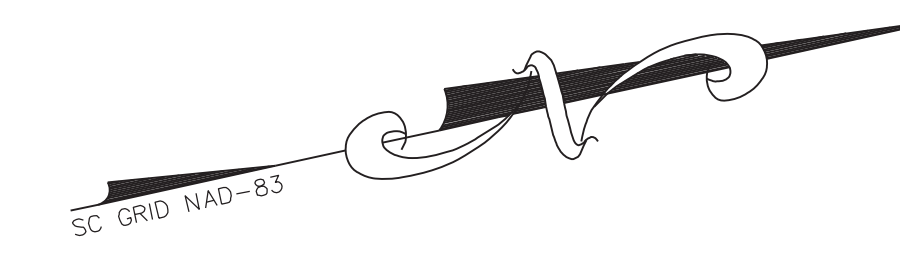
DATE: 7/18/2021

JOB NO.: 210705

SHEET **C200**

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 USE: SCHOOL



EX. SCDOT CURB CUT  
 NO CHANGE IN USE  
 OR MODIFICATION  
 INSIDE SCDOT R/W

EX. SCDOT CURB CUT  
 NO CHANGE IN USE  
 OR MODIFICATION  
 INSIDE SCDOT R/W

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L3	S 78°14'31" E	60.01'

**NOTES / LEGEND**

- THERE WERE NO GRAND TREES IDENTIFIED ON THE SITE.
  - FIRE WALLS AND BUILDING SEPARATION IS REQUIRED PER THE BUILDING CODES.
- OPEN SPACE  
 2.67 ACRES

**APPROVALS**

Project Engr: \_\_\_\_\_  
 Drawn By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_  
 Review: \_\_\_\_\_  
 Bid: \_\_\_\_\_  
 Construction: \_\_\_\_\_

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**INFORMATION ONLY**

**PROJECT**

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YORK COUNTY, SOUTH CAROLINA  
 PREPARED FOR  
**GREG SMITH**

**SHEET TITLE**

**SITE PLAN**

NO.	DATE	REVISIONS	BY

SCALE: 1" = 40'

DATE: 7/18/2021

JOB NO.: 210705

SHEET **C300**



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N 12°10'23" E - 191.83'

N 12°03'34" E 204.37'

N 12°12'54" E 227.67'

N 12°09'08" E 486.82'

TEMP. GRAVEL CONSTRUCTION ENTRANCE

LIMITS OF DISTURBANCE  
 12.6 ACRES  
 3/4" REBAR (IPF)

1" OPEN TOP (IPF)

SILT FENCE (TYP.)

SILT FENCE ROCK OUTLET

EROSION CONTROL MATTING (TYP.)

FOREBAY

FORHBAY

EMERGENCY SPILLWAY (641.00)

FAIRCLOTH SKIMMER

INLET PROTECTION (TYP.)

15'-LENGTH RHP-RAP APRON  
 20'-LEVEL SPREADER

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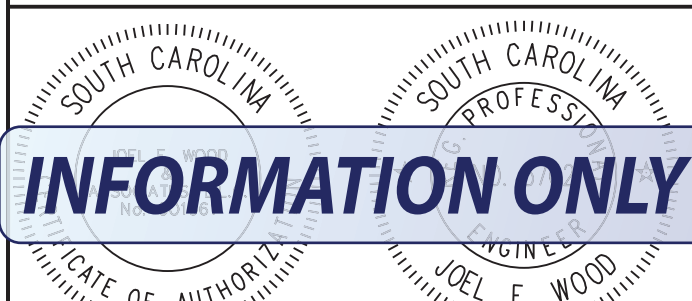
RIP-RAP APRON TO ARMOR SLOPE

EROSION CONTROL MATTING (TYP.)

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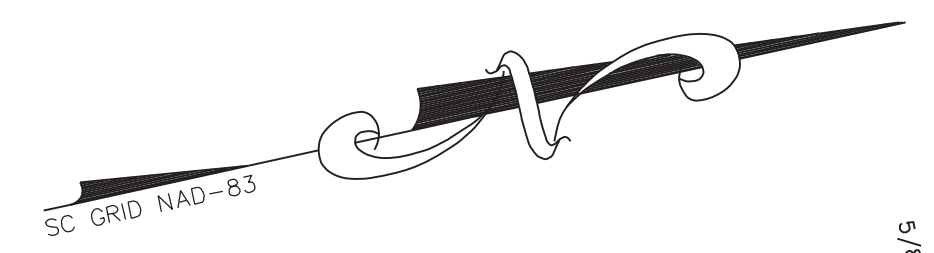
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<b>APPROVALS</b> Project Engr: _____ Drawn By: _____ Checked By: _____ Review: _____ Bid: _____ Construction: _____	<b>PREPARED BY</b>  <b>JOEL E. WOOD &amp; ASSOCIATES</b> PLANNING • ENGINEERING • MANAGEMENT P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390	<b>SEALS</b>  <b>INFORMATION ONLY</b> JOEL E. WOOD	<b>PROJECT</b> LAKE WYLIE MINI STORAGE ADDITION YORK COUNTY, SOUTH CAROLINA PREPARED FOR <b>GREG SMITH</b>	<b>SHEET TITLE</b> <b>PHASE 2          GRADING &amp; EROSION CONTROL PLAN</b>	NO.	DATE	REVISIONS	BY	SCALE: 1" = 40'
									DATE: 7/18/2021
									JOB NO.: 210705
									SHEET <b>C501</b>

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 USE: FIRE DEPARTMENT

12°10'23" E 191.83'  
 10' SETBACK

N 12°03'34" E 204.37' 3/4" REBAR (PF) N 12°12'54" E 227.67' 1" OPEN TOP (PF) N 12°09'08" E 486.82'  
 10' SETBACK

1,280 SQ.FT.

402 SQ.FT.

3,070 SQ.FT.

1,050 SQ.FT.

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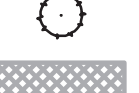

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**LANDSCAPE NOTES:**

1. THE SITE IS SUBJECT TO THE YORK COUNTY TREE ORDINANCE.
2. THE SITE IS CLASSIFIED AS TRADITIONALLY CLEARED.
3. TREE REQUIREMENTS WILL BE MET WITH NEW TREES.
4. REQUIRED LANDSCAPE AREA:  
 IMPERVIOUS PARKING AREA x 10% = 58,010 x 0.10 = 5,801 SF  
 LANDSCAPE AREA PROVIDED = 5,802 SF
5. LARGE MATURING TREE REQUIREMENTS (MIN. 3 IN. CALIPER):  
 10% IMPERVIOUS AREA / 1600 = 5,801 / 1600 = 4 TREES
6. NO PARKING SPACE SHALL BE MORE THAN 75 FEET FROM A TREE
7. ARTERIAL ROAD REQUIREMENTS:  
 1 TREE AND 3 SHRUBS PER 10 REQUIRED PARKING SPACE  
 5 SPACES REQUIRED, 1 TREE AND 3 SHRUBS PROVIDED
8. TYPE "B" ROAD BUFFER REQUIRED. SEE PLANTING SCHEDULE SHEET C703
9. THERE ARE NO GRAND TREES ON THE SITE.

**LEGEND**


-  Red Maple (*Acer rubrum*) - (2" Min. DBH, see plan for 3" Min. DBH locations)
-  Crepe Myrtle (*Lagerstroemia indica* - 'Apalachee') - (3 Stem, 6' Min. height)
-  Blue Isu (*Distyllum myricoides*) - (3 gallon)
-  4" Double hammered hardwood mulch

**APPROVALS**

Project Engr: \_\_\_\_\_  
 Drawn By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_

Review: \_\_\_\_\_  
 Bid: \_\_\_\_\_  
 Construction: \_\_\_\_\_

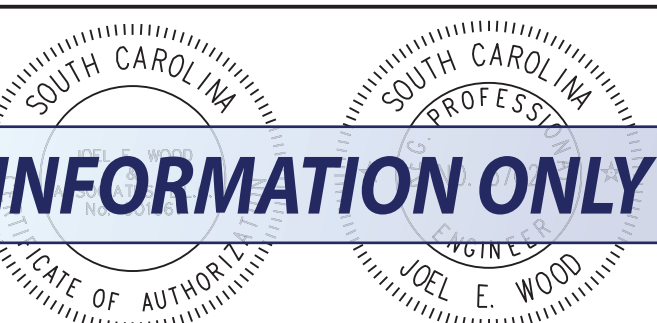
**PREPARED BY**



**JOEL E. WOOD & ASSOCIATES**  
 PLANNING • ENGINEERING • MANAGEMENT

P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390

**SEALS**



**INFORMATION ONLY**

**PROJECT**

LAKE WYLIE MINI STORAGE ADDITION

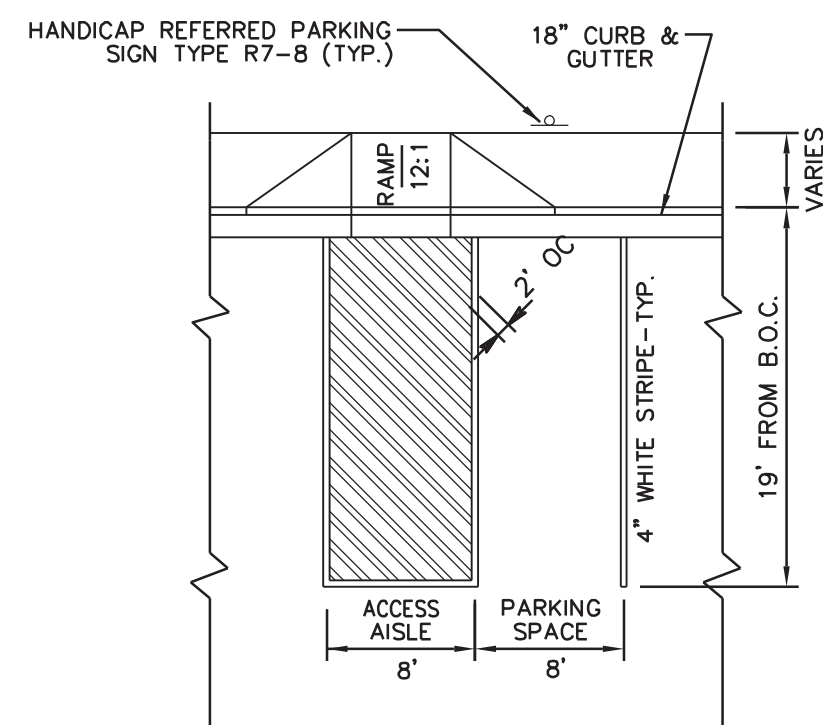
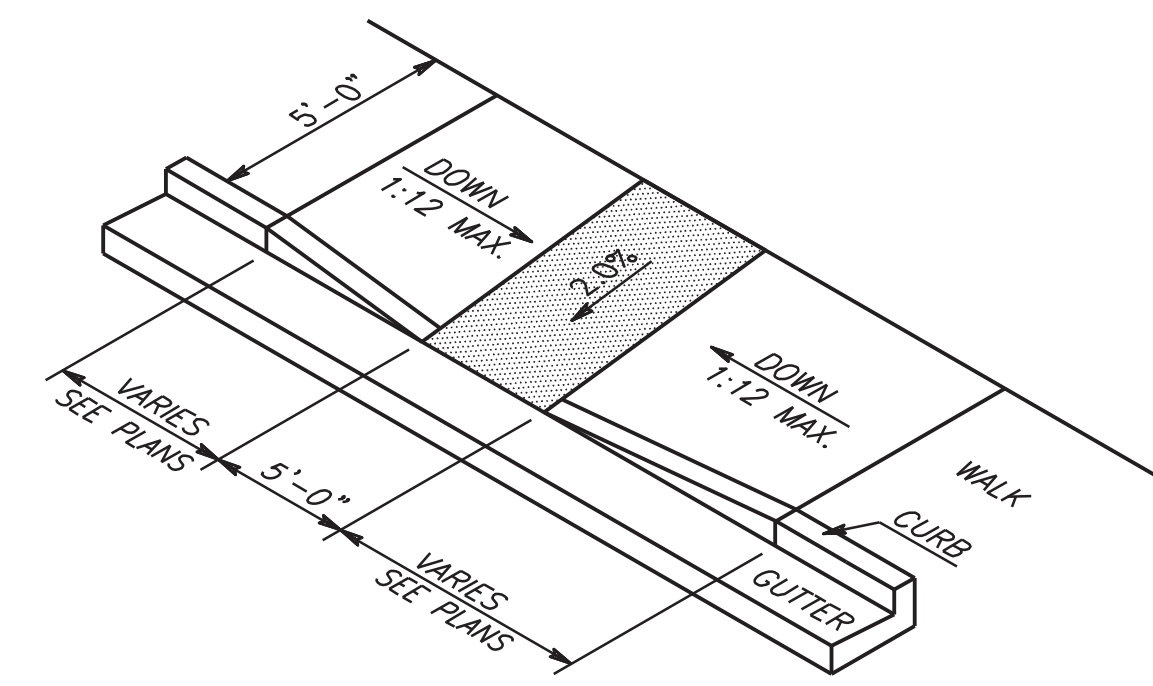
YORK COUNTY, SOUTH CAROLINA  
 PREPARED FOR  
**GREG SMITH**

**SHEET TITLE**

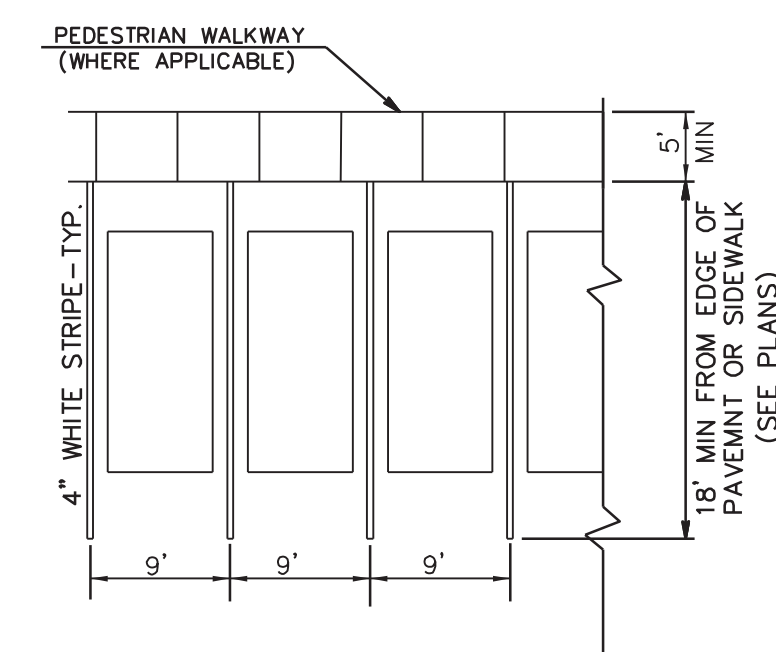
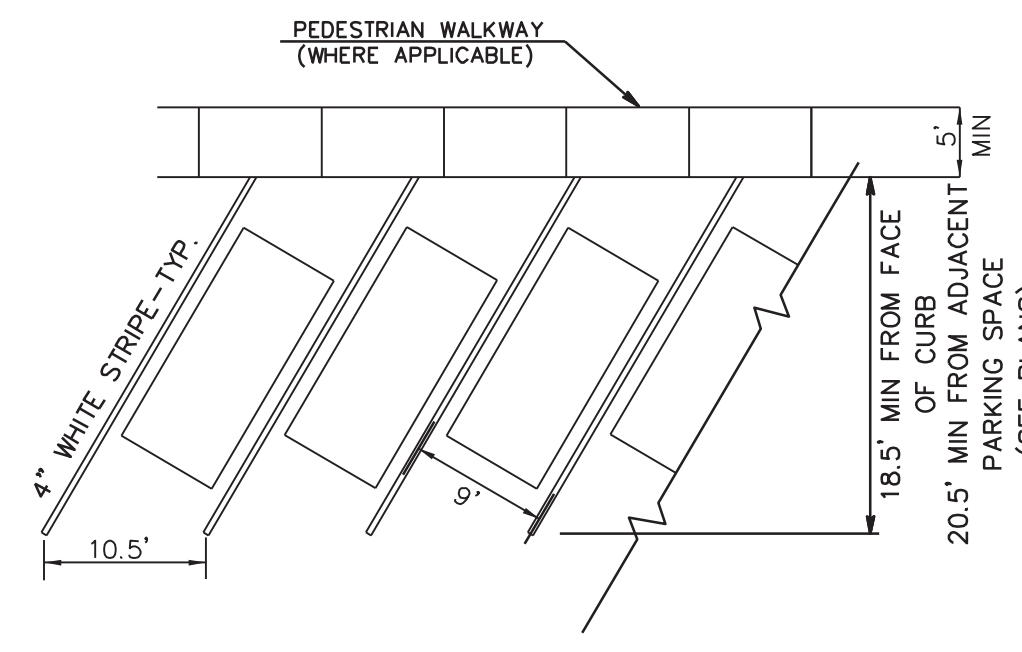
**SITE PLAN**

NO.	DATE	REVISIONS	BY

SCALE: 1" = 40'  
 DATE: 7/18/2021  
 JOB NO.: 210705  
 SHEET **C300**



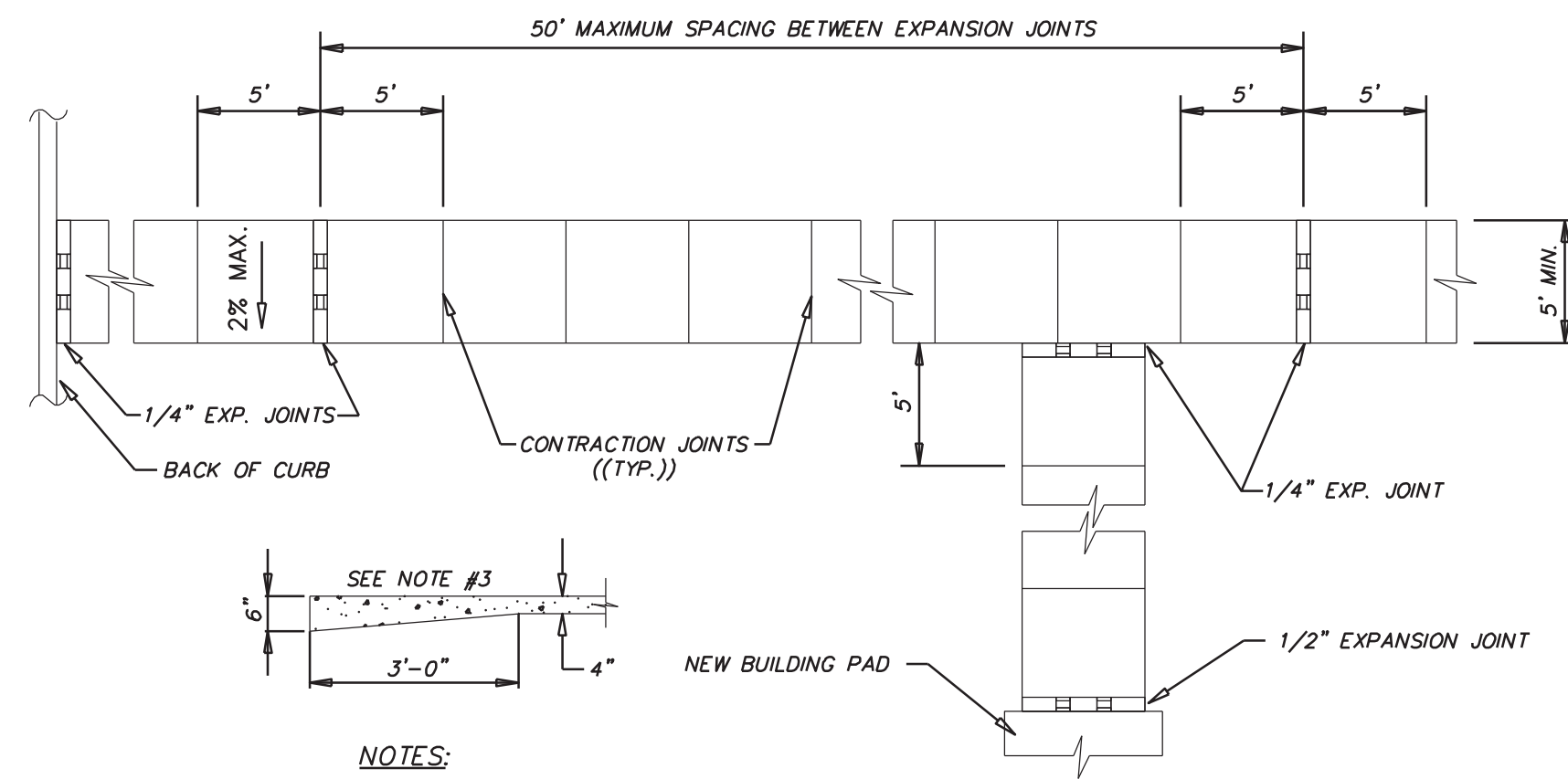
- NOTES:**
- TWO ADJACENT HANDICAP PARKING SPACES MAY SHARE A COMMON ACCESS AISLE.
  - STRIPES FOR ACCESS AISLE AND PAINTED SYMBOL TO BE BLUE.



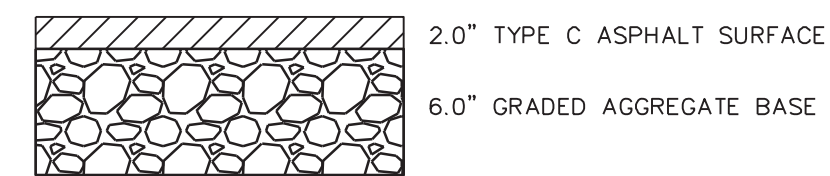
**H** TYPICAL STRIPING DETAIL  
90° & 60°  
SCALE=NTS

**A** ADA RAMP DETAIL  
SCALE=NTS

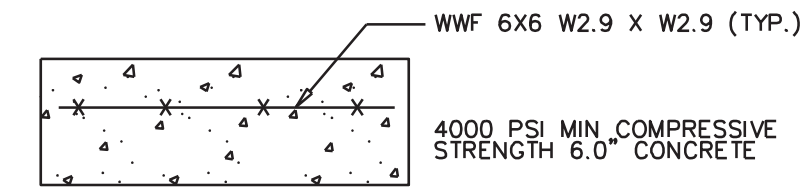
**E** ACCESSIBLE PARKING DETAIL  
SCALE=NTS



- NOTES:**
- ALL SIDEWALKS SHALL BE 4" THICK (3600 PSI @ 28 DAYS).
  - CONTRACTION JOINTS SHALL BE 1" DEEP AND EDGED WITH 1/8" RADIUS.
  - WHEN SIDEWALKS ABUT ROADWAY, WHERE THERE IS NO CURB, THICKEN WALK TO 6" IN 3'-0".
  - 1/2" EXPANSION MATERIAL REQUIRED WHERE CONCRETE SIDEWALK ABUT CONCRETE STRUCTURE.
  - A LAYER OF #15 FELT IS REQUIRED BETWEEN WALK AND ADJACENT PARALLELING CONCRETE CURB.
  - ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS-SLOPE OF 2%.



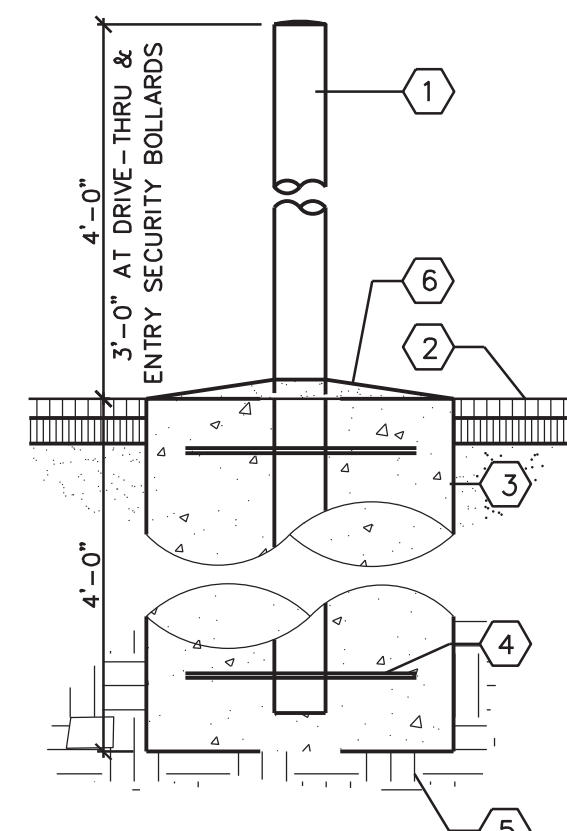
**F** LIGHT DUTY PAVING DETAIL  
SCALE=NTS



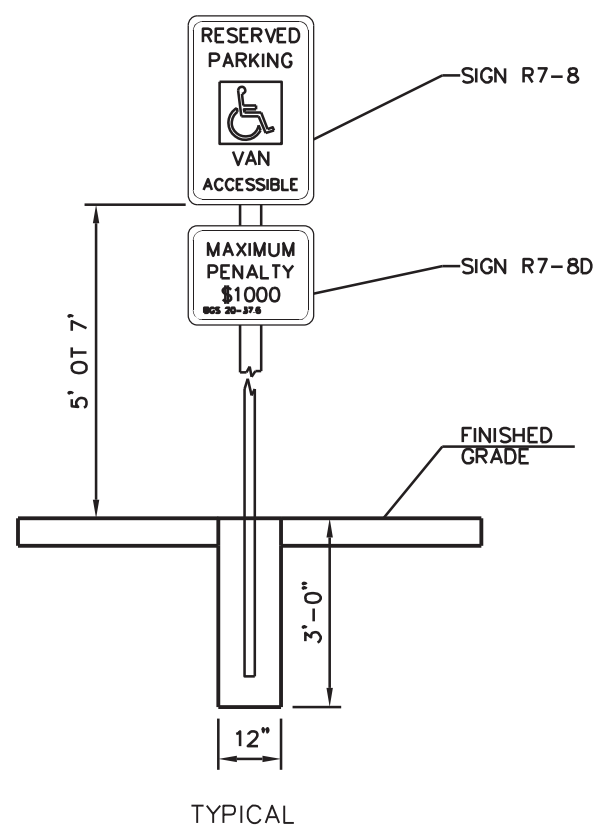
**G** CONCRETE PAVING DETAIL  
SCALE=NTS

**B** STANDARD SIDEWALK SECTION  
SCALE=NTS

- KEYED NOTES**
- 6"Ø STANDARD STL. PIPE CONCRETE FILLED IN RECEIVING LOCATIONS INCLUDING UTILITIES, TRASH ENCLOSURE, AND SPRINKLER RISERS (EXCEPTION: 4"Ø STL. PIPE AT DRIVE-THRU AND FRONT WALK). PROVIDE 1/4" WELDED CLOSURE PLATE AT BOTTOM. PAINT PIPES YELLOW. BOLLARDS ON WALK AND DRIVE-THRU TO RECEIVE GRAY POLYETHYLENE COVER (FROM IDEAL SHIELD - 313-842-7290).
  - TOP OF PAVEMENT.
  - 24"Ø CONCRETE FOUNDATION. USE SONOTUBE FORM.
  - 3/8"Ø WELDED HOOPS. 18"Ø TOP, BOTTOM, AND CENTER.
  - SOLID UNDISTURBED SOIL.
  - PROVIDE PITCH, SMOOTH CONCRETE FINISH.

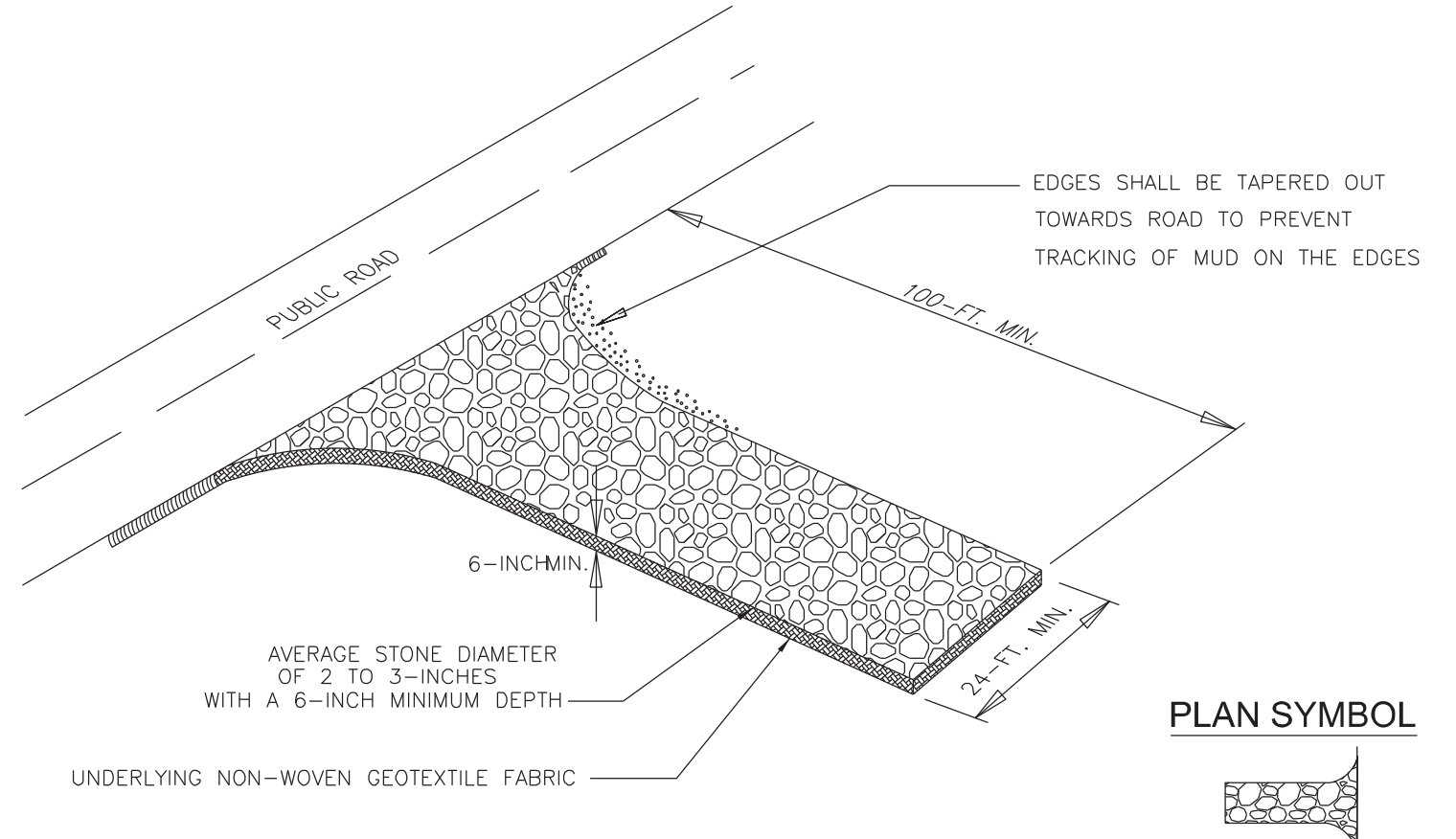


**D** PIPE BOLLARDS  
SCALE=NTS

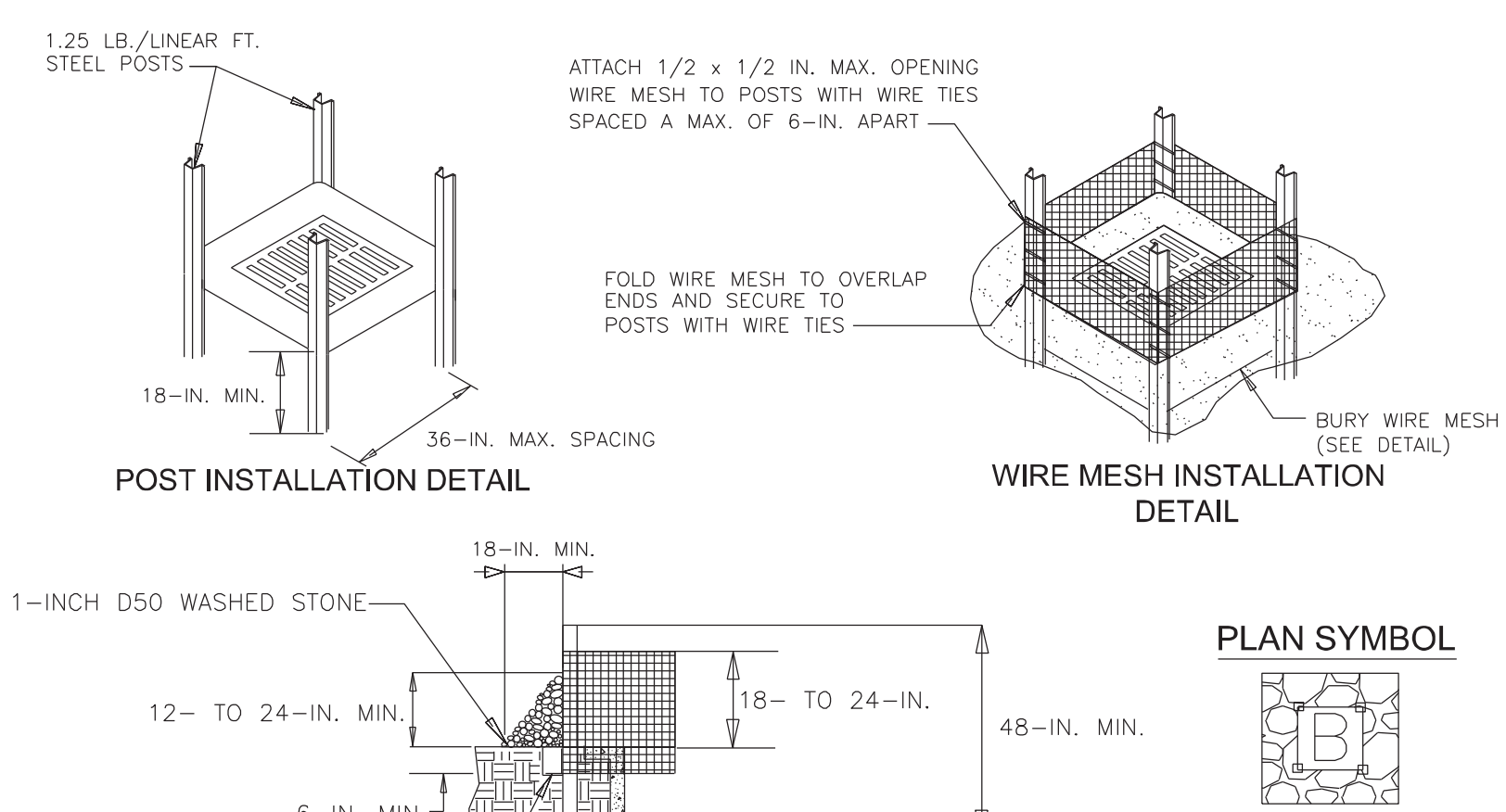


**C** ACCESSIBLE PARKING SIGN DETAIL  
SCALE=NTS

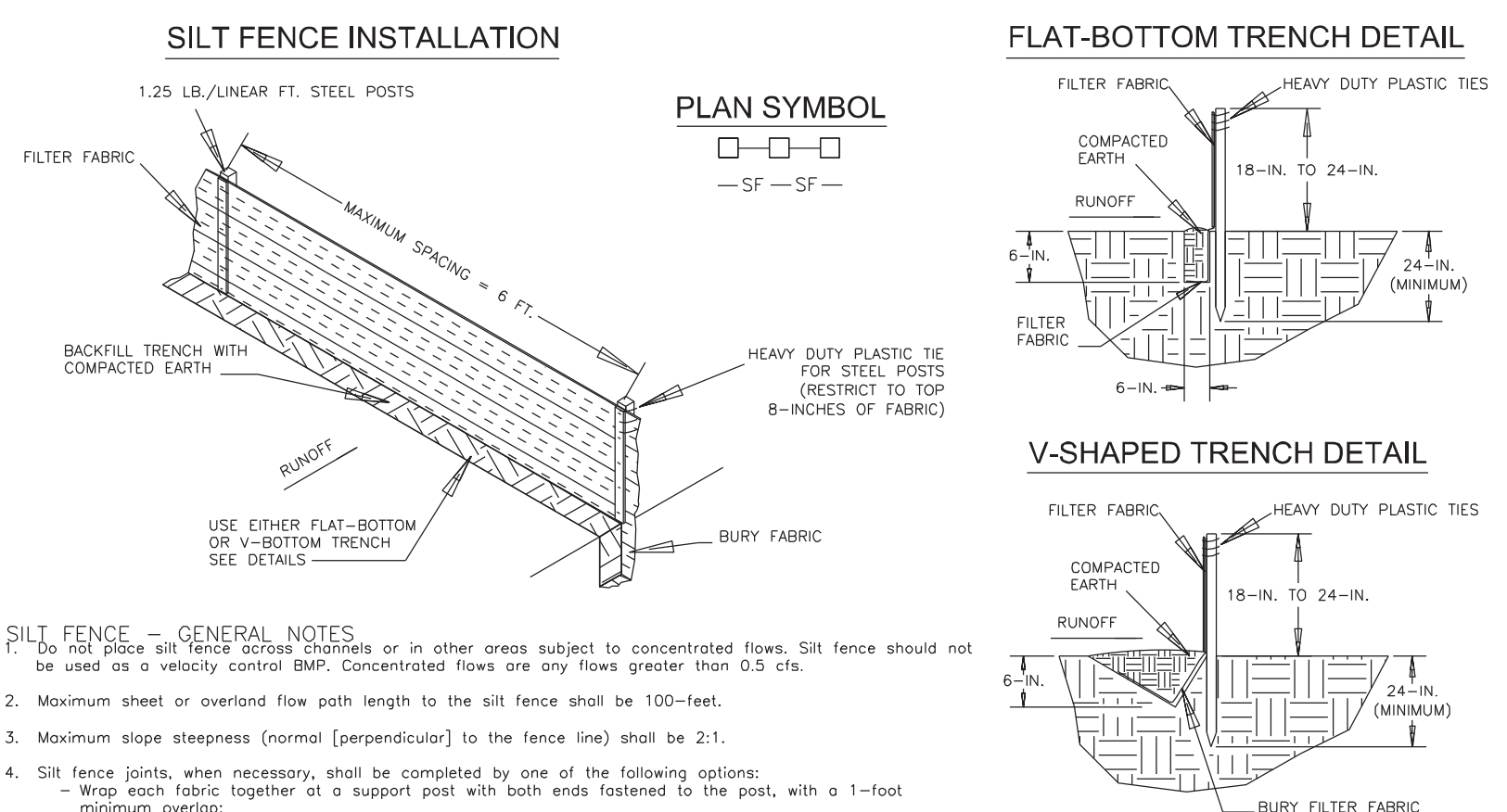
APPROVALS	PREPARED BY	SEALS	PROJECT	SHEET TITLE	NO.	DATE	REVISIONS	BY	SCALE: N.T.S.
Project Engr: _____ Drawn By: _____ Checked By: _____	<p><b>JOEL E. WOOD &amp; ASSOCIATES</b> PLANNING • ENGINEERING • MANAGEMENT P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390</p>		LAKE WYLIE MINI STORAGE ADDITION	<b>SITE DETAILS</b>					DATE: 7/18/2021
Review: _____ Bid: _____ Construction: _____			YORK COUNTY, SOUTH CAROLINA PREPARED FOR GREG SMITH						JOB NO.: 210705
									SHEET <b>C700</b>



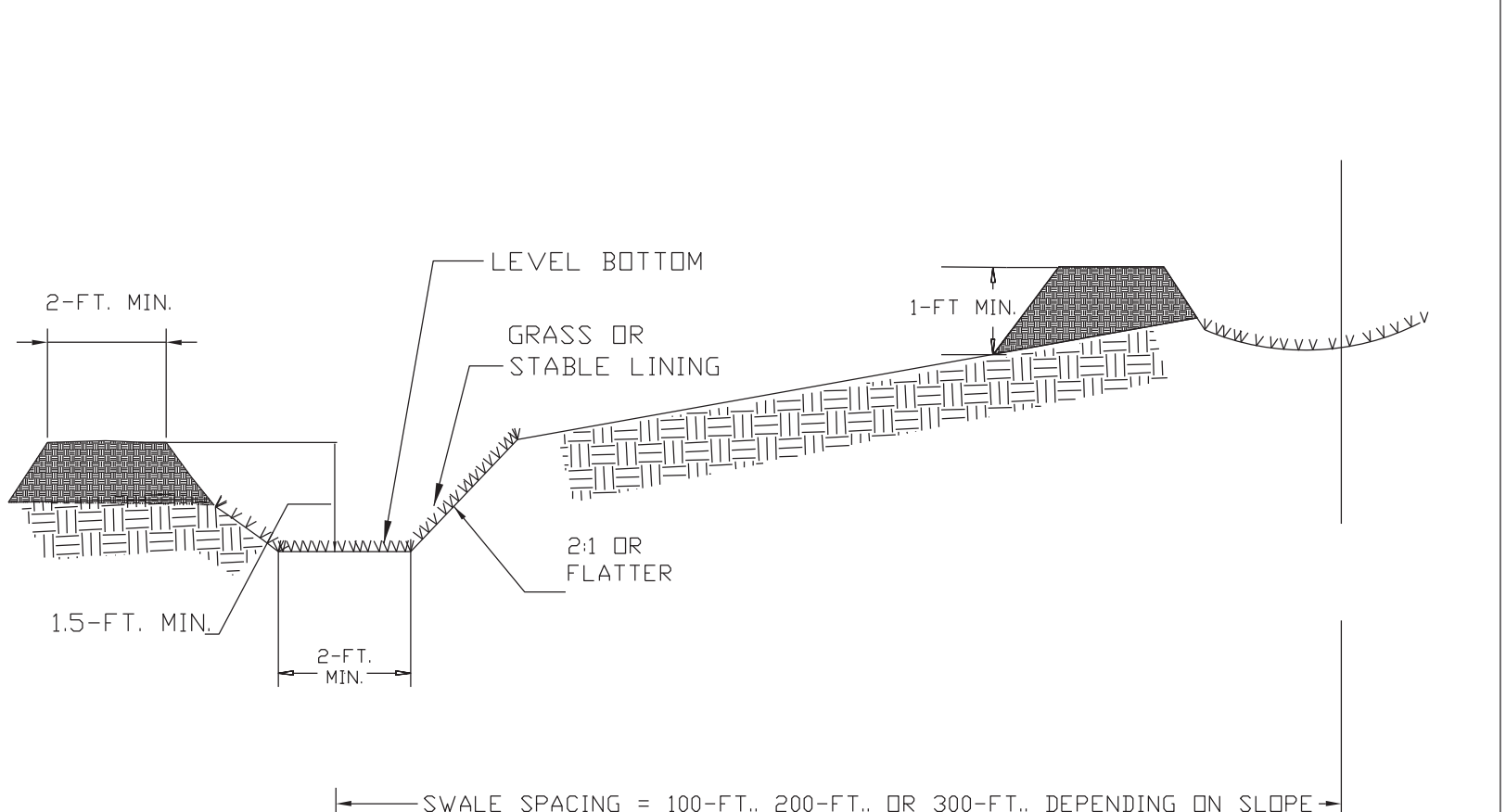
South Carolina Department of Health and Environmental Control  
**CONSTRUCTION ENTRANCE**  
 STANDARD DRAWING NO. SC-06 PAGE 1 of 2  
 NOT TO SCALE FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control  
**Type B WIRE MESH & STONE INLET PROTECTION**  
 STANDARD DRAWING NO. SC-08 PAGE 1 of 2  
 NOT TO SCALE FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control  
**SILT FENCE**  
 STANDARD DRAWING NO. SC-03 PAGE 1 of 2  
 NOT TO SCALE FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control  
**DIVERSION SWALE**  
 STANDARD DRAWING NO. RC-03 PAGE 1 of 2  
 NOT TO SCALE JULY 31, 2005 DATE

- CONSTRUCTION ENTRANCE - GENERAL NOTES**
- Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
  - 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 2-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 at the edge of the entrance.
  - Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
  - Limestone may not be used for the stone pad.
- CONSTR. ENTRANCE - INSPECTION & MAINTENANCE**
- The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
  - Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
  - During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
  - Reshape the stone pad as necessary for drainage and runoff control.
  - Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
  - Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
  - During maintenance activities, any broken pavement should be repaired immediately.
  - Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control  
**CONSTRUCTION ENTRANCE**  
 STANDARD DRAWING NO. SC-06 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

- WIRE MESH & STONE INLET PROTECTION**
- GENERAL NOTES**
- Use hardware fabric or comparable wire mesh with maximum openings of 0.5-inches x 0.5-inches as the supporting material.
  - Use steel posts that meet the following physical requirements:
    - Be composed of high strength steel with a minimum yield of 50,000 psi.
    - Have a standard "T" section with a nominal face width of 1.38 inches and a nominal "T" width of 1.48-inches.
    - Weight 1.25 pounds per foot (±8%).
  - Use heavy-duty wire ties to attach the wire mesh material to the steel posts.
  - Space the steel posts a maximum of 3-feet apart around the perimeter of the inlet and drive them into the ground a minimum of 18-inches.
  - Excavate a trench 6-inches deep around the outside perimeter of the inlet to install wire mesh. Backfill the trench with soil or crushed stone and compact over the wire mesh.
  - Place Aggregate No. 5 washed stone (or 1-inch D50 stone) to a minimum height of 12-inches, and a maximum of 24-inches against the wire mesh on all sides.
- INSPECTION & MAINTENANCE**
- The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
  - Regular inspections of wire mesh and stone inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
  - Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continuously monitored and removed when necessary.
  - Remove accumulated sediment when the sediment reaches 1/3 height of the stone fill or when stone becomes clogged. When a sump is installed in front of inlet protection, sediment should be removed when it fills approximately 1/3 the depth of the sump.
  - Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
  - Large debris, trash, and leaves should be removed from in front of the inlet protection when found.
  - After accumulated sediment is removed, pull stones from around wire mesh to wash or to replace with fresh stones as necessary.
  - Inlet protection structures should be removed 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 crest. Stabilize all bare areas immediately.

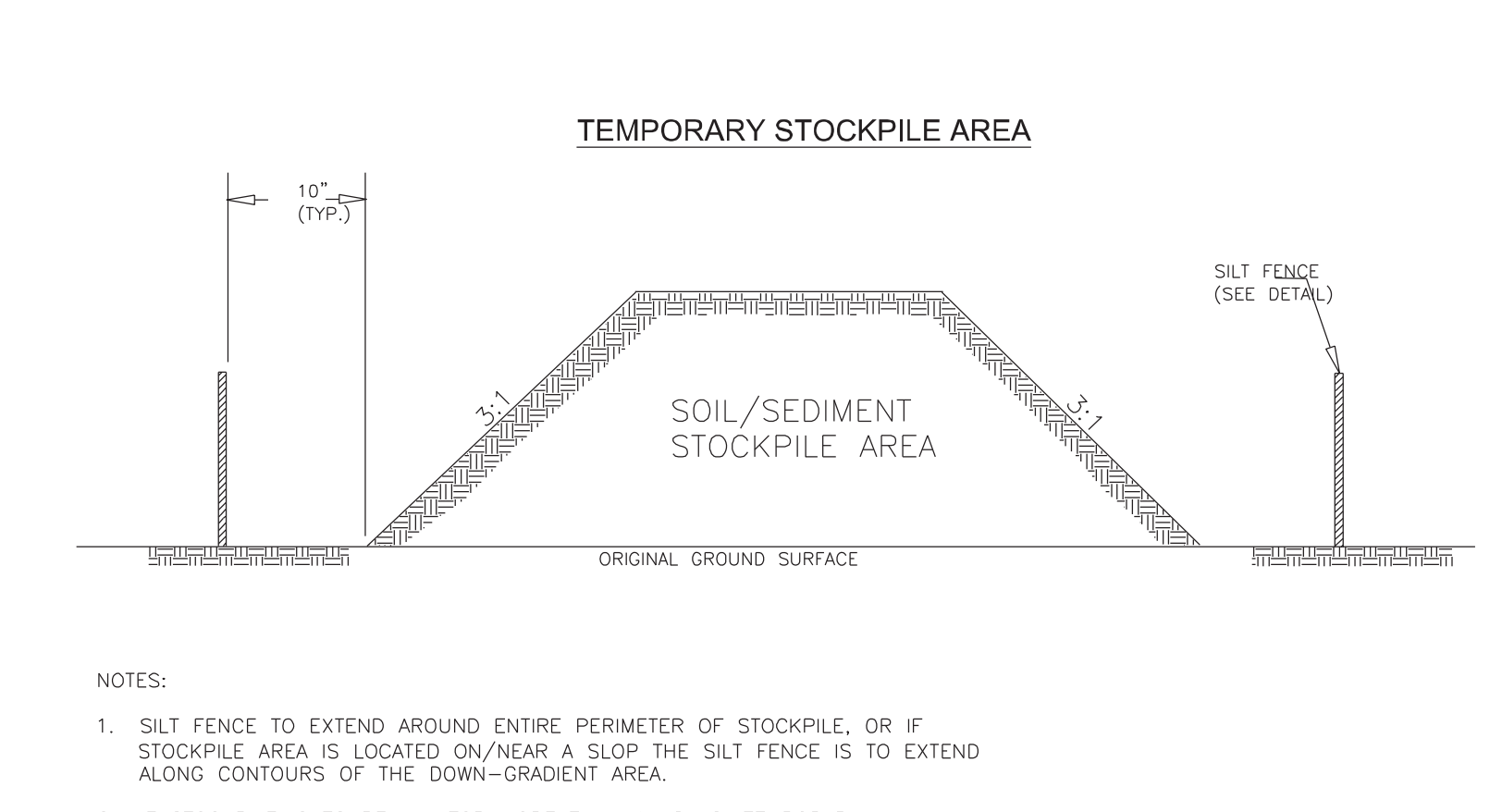
South Carolina Department of Health and Environmental Control  
**Type B WIRE MESH & STONE INLET PROTECTION**  
 STANDARD DRAWING NO. SC-08 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

- SILT FENCE - POST REQUIREMENTS**
- Silt fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
    - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
    - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
    - Weight 1.25 pounds per foot (± 8%).
  - Posts shall be equipped with projections to aid in fastening of filter fabric.
  - Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 1/2 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
  - Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
  - Post spacing shall be at a maximum of 6-feet on center.
- SILT FENCE - FABRIC REQUIREMENTS**
- Silt fence must be composed of when geotextile filter fabric that consists of the following requirements:
    - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polypropylene, polyester, or polyamides that are 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 any defects or flaws that significantly affect its physical and/or filtering properties; and,
    - Have a minimum width of 36-inches.
  - Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
  - 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
  - Filter fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
  - Filter fabric shall be installed at a minimum of 24-inches above the ground.

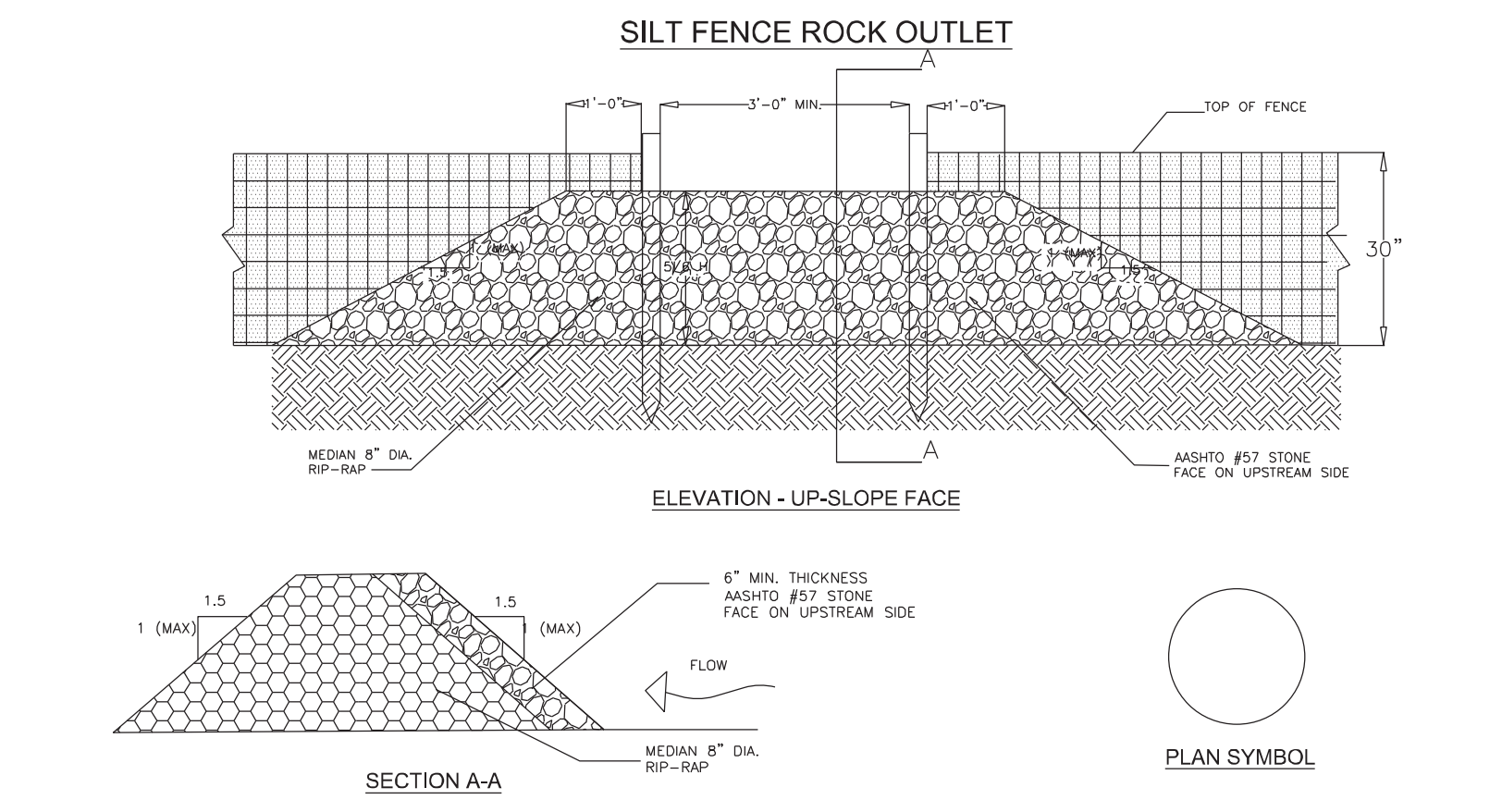
South Carolina Department of Health and Environmental Control  
**SILT FENCE**  
 STANDARD DRAWING NO. SC-03 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

- DIVERSION SWALE**
- Installation**
- The bottom width should be a minimum of 2-feet, and the bottom should be level. The depth should be a minimum of 1.5-feet and the side slopes should be 2H:1V or flatter. The maximum grade shall be 5%, with positive drainage to a suitable outlet. Slopes shall be stabilized immediately using vegetation, sod, and erosion control blankets or turf reinforcement mats to prevent erosion. The upslope side of the swale should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures as necessary. Sediment-laden runoff shall be directed to a sediment trapping facility.
- Inspection and Maintenance**
- Swales should be inspected, every seven (7) calendar days and within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation and repairs made as necessary. Damage caused by construction traffic or other activity must be repaired before the end of each working day.

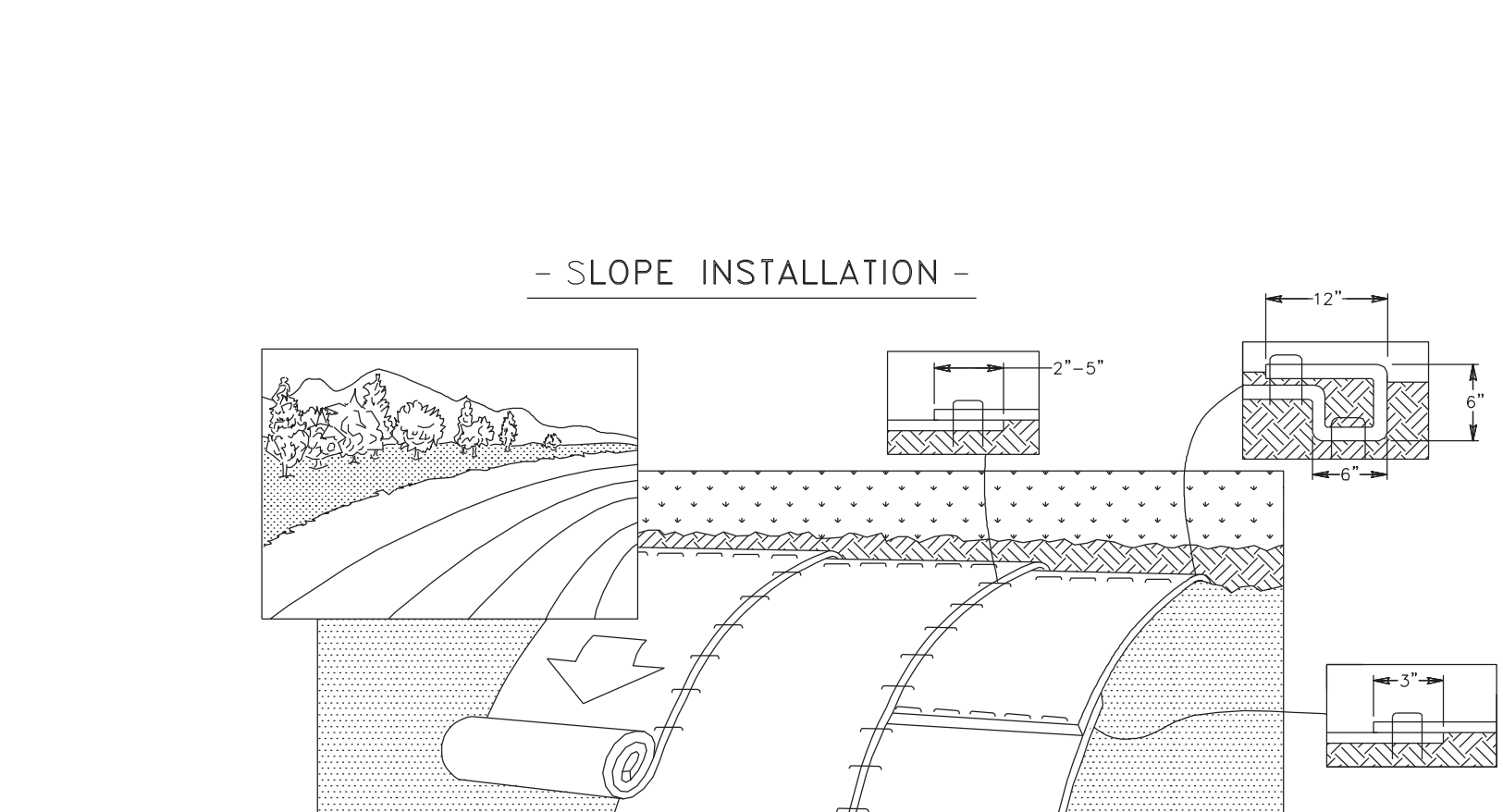
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South Carolina Department of Health and Environmental Control  
**TEMPORARY STOCKPILE**  
 STANDARD DRAWING NO. SC-15 PAGE 1 of 1  
 NOT TO SCALE FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control  
**SILT FENCE ROCK OUTLET**  
 STANDARD DRAWING NO. SC-14 PAGE 1 of 1  
 NOT TO SCALE FEBRUARY 2014 DATE



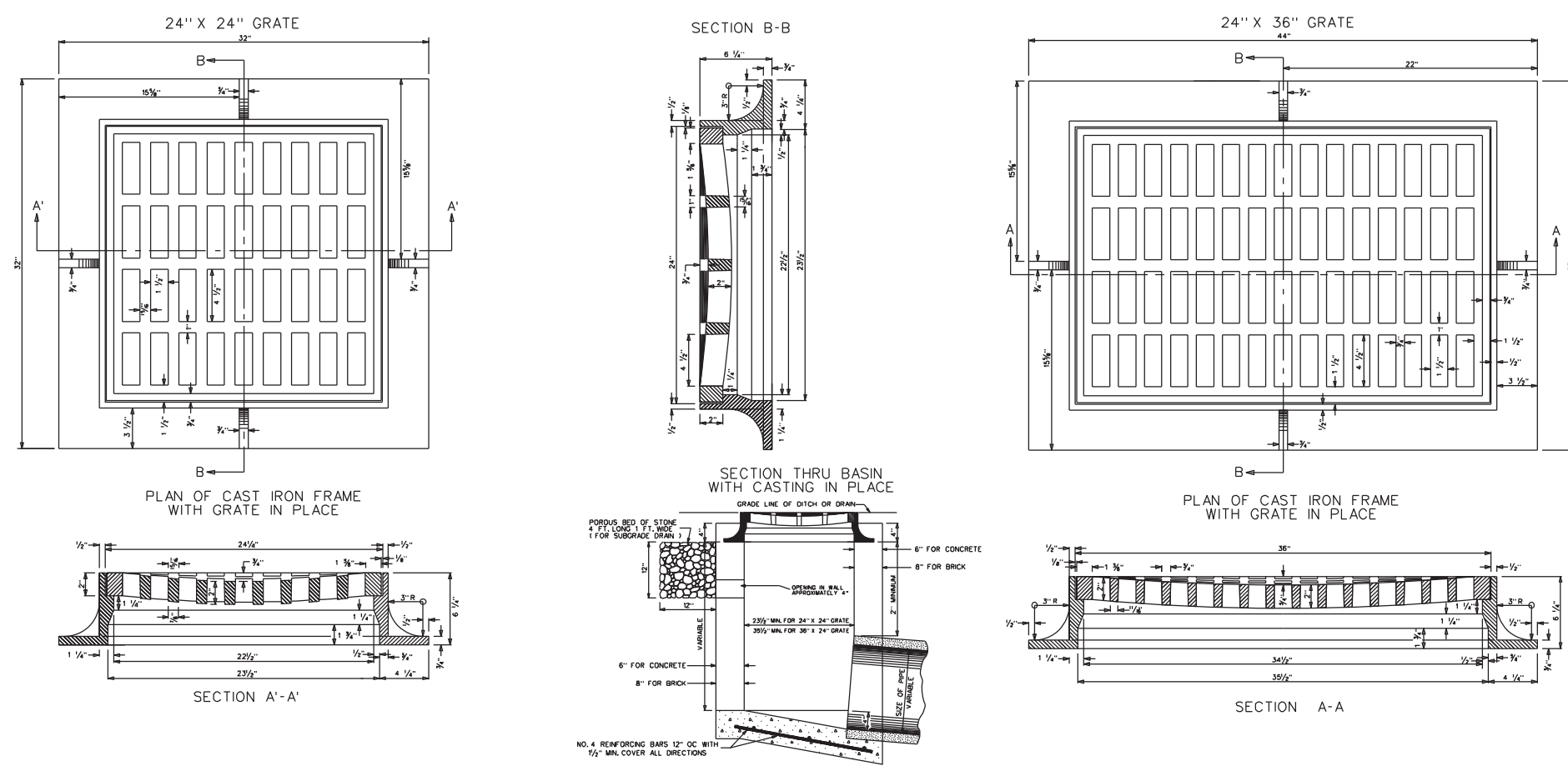
South Carolina Department of Health and Environmental Control  
**SILT FENCE**  
 STANDARD DRAWING NO. SC-03 PAGE 2 of 2  
 GENERAL NOTES FEBRUARY 2014 DATE

- NORTH AMERICAN GREEN**  
 EROSION CONTROL Products  
 Guaranteed SOLUTIONS
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOW
  - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
  - ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
  - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
  - CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

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**DIVERSION SWALE**  
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 GENERAL NOTES JULY 31, 2005 DATE

APPROVALS	PREPARED BY	SEALS	PROJECT	SHEET TITLE	NO.	DATE	REVISIONS	BY	SCALE: N.T.S.
Project Engr: _____ Drawn By: _____ Checked By: _____ Review: _____ Bid: _____ Construction: _____	<b>JOEL E. WOOD &amp; ASSOCIATES</b> PLANNING • ENGINEERING • MANAGEMENT P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390		<b>LAKE WYLIE MINI STORAGE ADDITION</b> YORK COUNTY, SOUTH CAROLINA PREPARED FOR <b>GREG SMITH</b>	<b>EROSION CONTROL DETAILS</b>					DATE: 7/18/2021 JOB NO.: 210705 SHEET <b>C701</b>





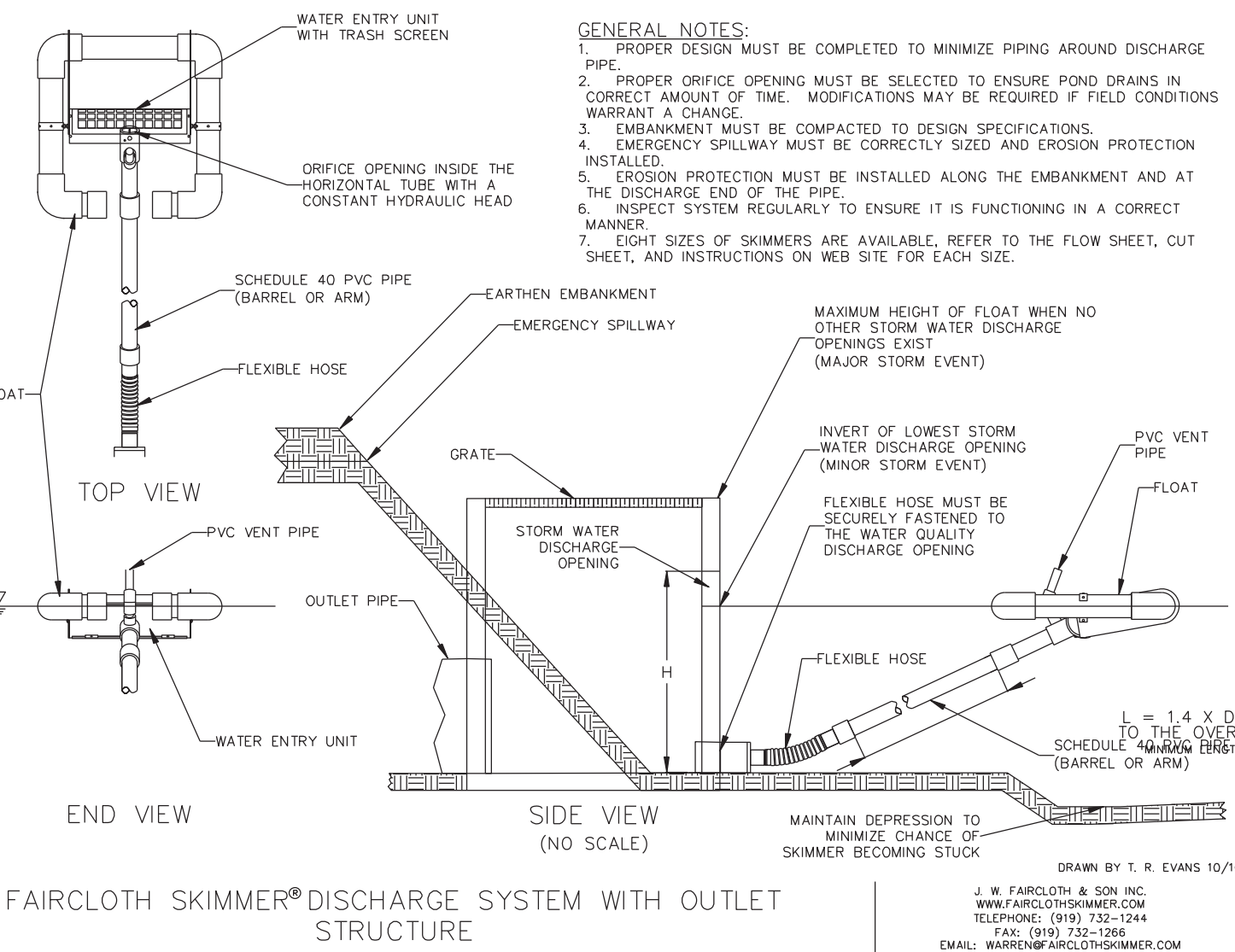
**NOTES:**

- FOR IN-PLACE CONSTRUCTION OF THE DROP INLET WALLS, EITHER BRICK MASONRY OR CLASS 3000 CONCRETE MAY BE USED. FOR CONCRETE, THE WALLS ARE TO BE 8" THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. FOR BRICK, THE WALLS ARE TO BE 8" THICK. CONCRETE BRICK AND SIMILAR SOLID UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 55, GRADE S-R.
- THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6" THICK CLASS 3000 CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. INCH PER FT. IS MET.
- MORTAR SHALL BE TYPE S OR M.
- IF DESIRED THESE ITEMS MAY BE PRECAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX OR STRUCTURE FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
- REINFORCING STEEL SHALL BE ASTM A-706, LOW-ALLOY STEEL, DEFORMED AND PLAN BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221.
- IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE STEP STANDARD DRAWING 719-16.
- ALL CASTINGS SHALL CONFORM TO AASHTO M 105, CLASS 35B. CASTINGS SHALL MEET LOAD TEST OF AASHTO M 306 (40,000 LBS.).
- STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE LOADING AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON THE DEPARTMENT'S LIST OF APPROVED SUPPLIERS.
  - (A) STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
  - (B) STEEL GRATES AND FRAMES SHALL BE DIMENSIONED TO BE INTERCHANGEABLE WITH EACH PIECE OF THE CAST IRON GRATE AND FRAME SHOWN. STEEL GRATES MUST HAVE POSITIVE MEANS TO BE RETAINED IN THE FRAME.
  - (C) STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET AASHTO M 306 (40,000 LBS.).
  - (D) MANUFACTURERS DESIRING TO BE PLACED ON THE DEPARTMENT'S APPROVAL SHEETS SHOULD CONTACT THE RESEARCH AND MATERIALS ENGINEER FOR PROCEDURES.
- THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE ORIENTED IN THE DIRECTION OF FLOW. IF PRACTICABLE, THIS GRATE IS NOT SUITABLE FOR PEDESTRIAN TRAFFIC BECAUSE GRATE OPENINGS EXCEED 1/2".
- AS SHOWN BY THIS DRAWING, THE FRAME IS SET LEVEL, BUT THE ENGINEER MAY SET SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS.
- AFTER THE FRAME IS SET IN ITS FINAL POSITION, IT IS TO BE ENCASED WITH CONCRETE AS SHOWN BY DRAWING.
- THE FLOOR OF THE BASIN MUST SLOPE IN THE DIRECTION OF THE OUTLET PIPE AS SHOWN AND THE INSIDE OF OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN.
- THE SOFFIT (INSIDE TOP OF PIPE) OF THE OUTLET PIPE SHOULD BE NO HIGHER THAN THE FLOW LINE OF THE INLET PIPE, UNLESS OTHERWISE SHOWN ON PLANS.
- THE CONTRACT UNIT PRICE FOR DROP INLETS SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN IN ACCORDANCE WITH THE SCOTT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

**A AREA BASIN (AB)**

SCALE=N.T.S.

Structure	Skimmer Size (in.)	Skimmer Orifice (in.)	Skimmer Daily Discharge Capacity (FT <sup>3</sup> /DAY)	Detouring Time (Days)	No. of Skimmers
EX. 1A-2	2.5	2.1	4.531	1	1



**GENERAL NOTES:**

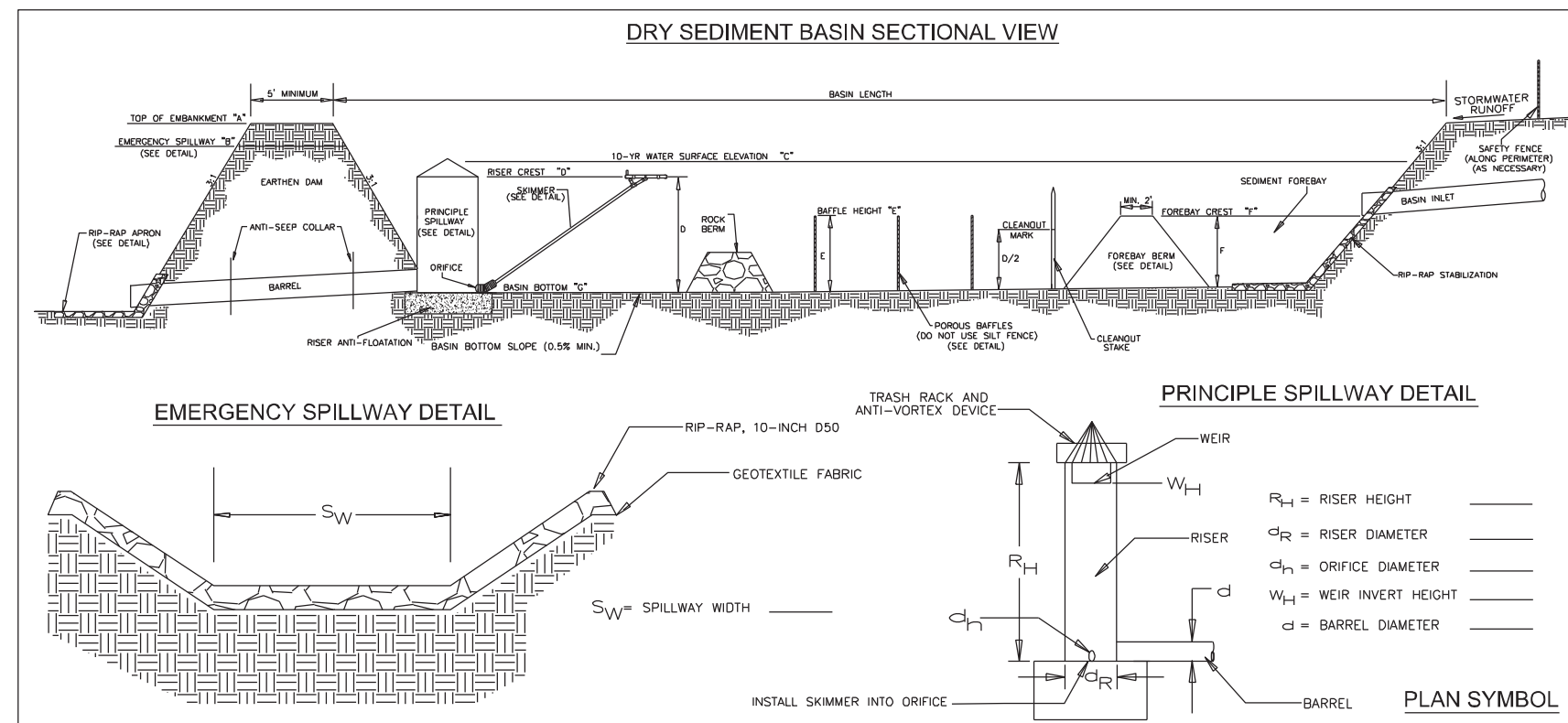
- PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
- PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
- EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
- EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
- EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
- INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
- EIGHT SIZES OF SKIMMERS ARE AVAILABLE. REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH OUTLET STRUCTURE

DESIGNED BY T. R. EVANS 10/10  
 J. W. FAIRCLOTH & SON, INC.  
 WWW.FAIRCLOTHSKIMMER.COM  
 TELEPHONE: (919) 732-1244  
 FAX: (919) 732-1246  
 EMAIL: INFO@FAIRCLOTHSKIMMER.COM

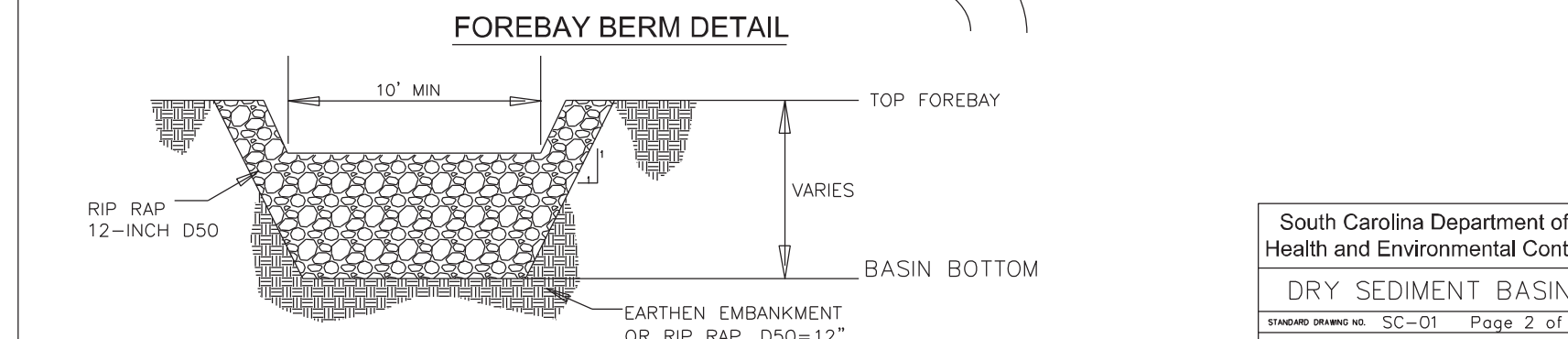
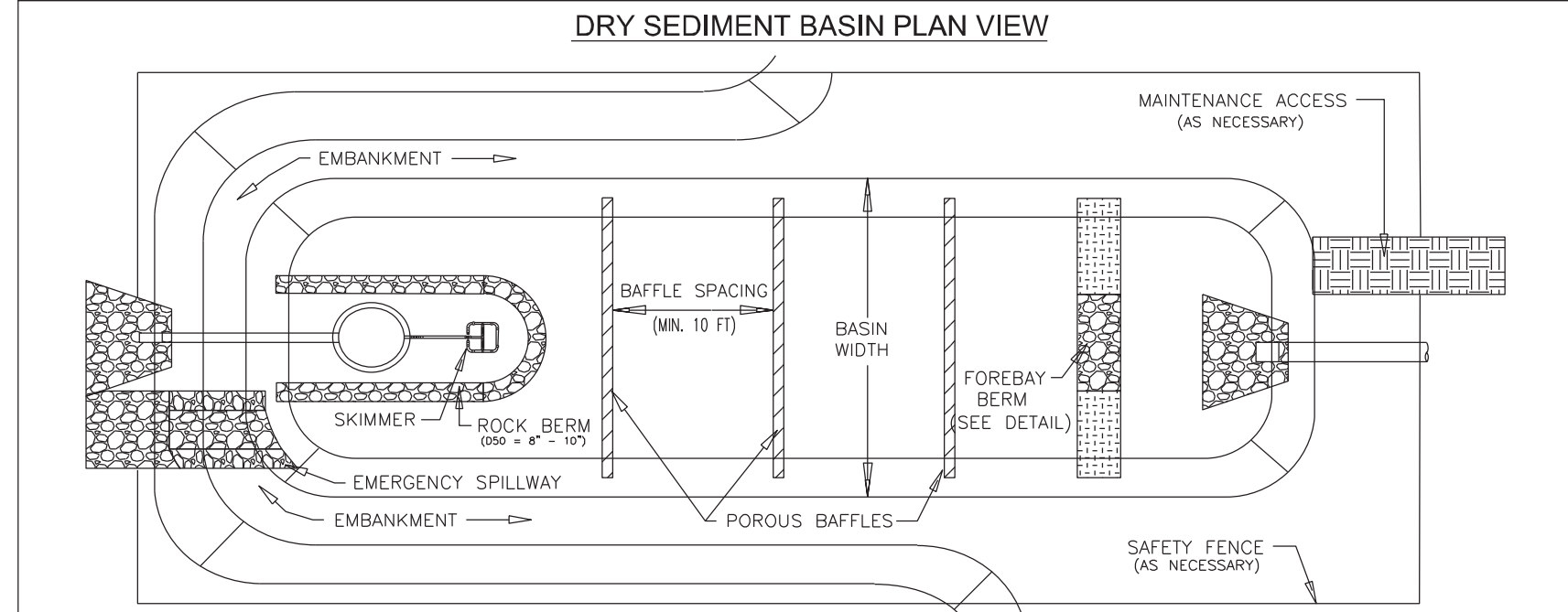
**B SEDIMENT POND SKIMMER**

SCALE=N.T.S.



SEDIMENT BASIN DESIGN TABLE													
Sediment Basin Number/Name	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Skimmer Size (in.)	Skimmer Orifice (in.)	Skimmer Daily Discharge Capacity (FT <sup>3</sup> /DAY)	Skimmer Average Discharge Rate (GPM)	Detouring Time (Days)	No. of Skimmers

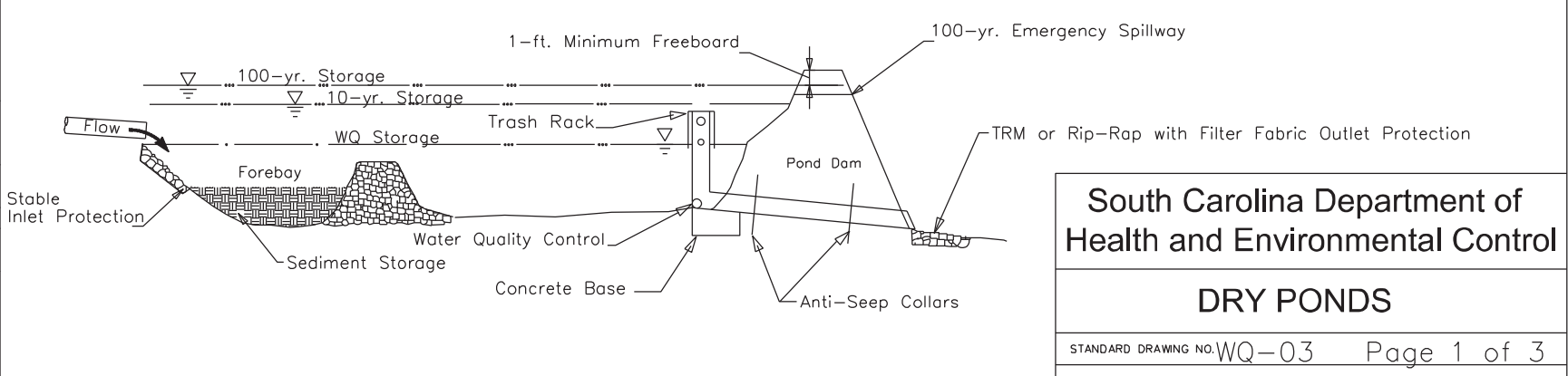
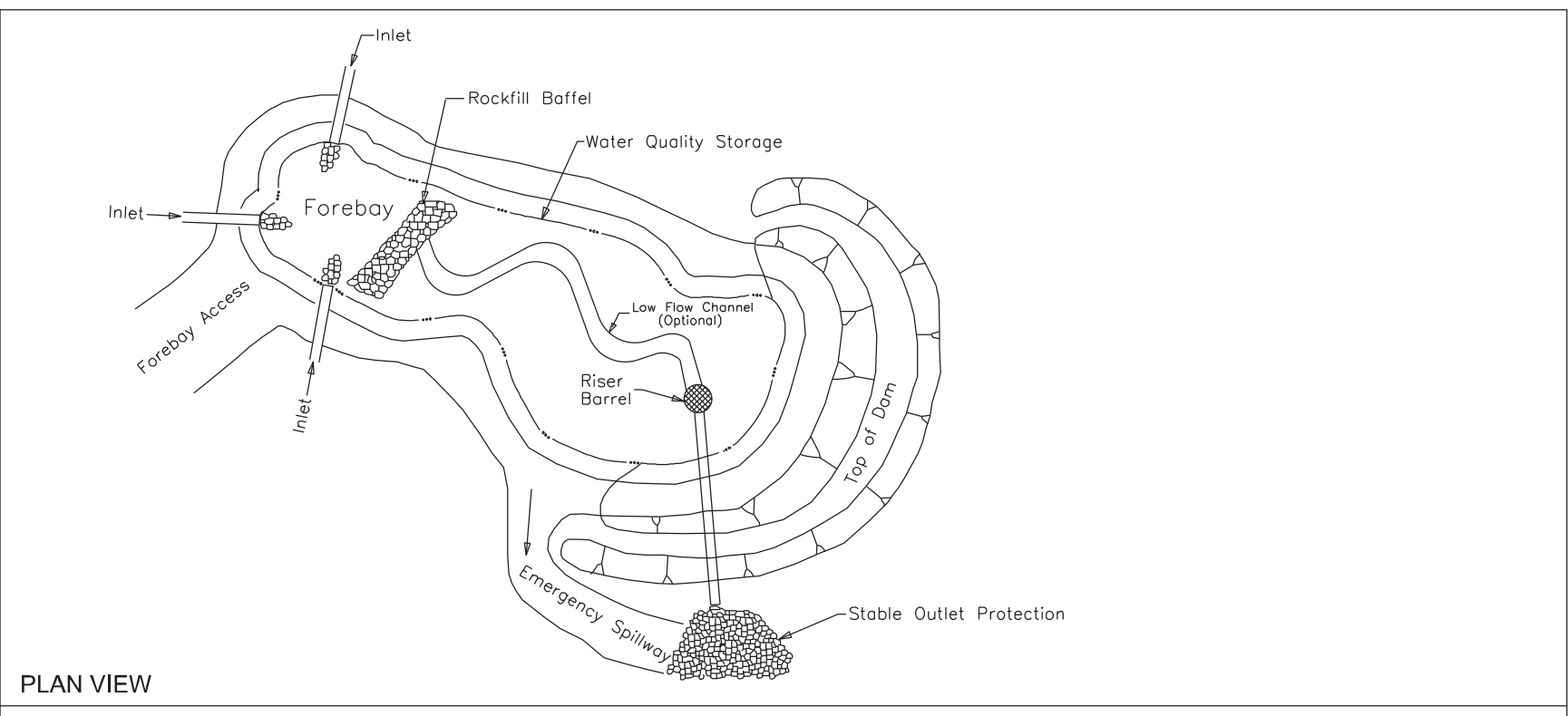
South Carolina Department of Health and Environmental Control  
**DRY SEDIMENT BASIN**  
 STANDARD DRAWING NO. SC-01 Page 1 of 3  
 NOT TO SCALE



South Carolina Department of Health and Environmental Control  
**DRY SEDIMENT BASIN**  
 STANDARD DRAWING NO. SC-01 Page 2 of 3  
 NOT TO SCALE

- DRY SEDIMENT BASIN - GENERAL NOTES**
- Sediment basins should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
  - Sediment basin's side slopes shall be seeded and, when necessary, stabilized with vegetative or synthetic matting to prevent the formation of rills and gullies.
  - Install three (3) rows of porous baffles with a minimum spacing of 10 feet. Baffles should ultimately be placed to maximize the space between each row of baffles and the basin's inlets/outlets. Only two (2) rows of baffles are necessary for basins that are less than 50 feet in length.
  - Porous baffles should be composed of coir-based materials or TRMs with a light penetration (open spaces) between 10-35%. These materials should not have loose straw. Silt Fence may not be used as Porous Baffles.
  - Each porous baffles shall be installed across the entire width of the basin and along the basin's side slope until the height of the baffle intersects the slope.
  - Install skimmer and coupling (as necessary) to riser structure at orifice along bottom of the principle spillway's riser structure. (Refer to skimmer manufacturer for installation procedures and skimmer specifications.)
  - Skimmer should be equipped with a mechanism, such as a rope, to allow easy access to skimmer to unlogged orifice or perform other necessary maintenance.
  - Stormwater runoff entering the basin must be directed into proper BMPs to prevent erosion along side slopes and to prevent scour at the basin's inlets.
  - The forebay berm should consist of rip-rap, gabion, or an earthen berm with a rock filled outlet that is constructed across the bottom of the basin's width.
  - An additional cleanout stake for the forebay area is recommended and should be marked for cleanout at 50% of provided sediment storage.
  - The elevation of the emergency spillway should be at least 1 foot below the top of the embankment. The emergency spillway should not be located on fill material, when possible. Rip-rap and geotextile liner should be placed on all spillways that must be located on fill material.
- DRY SEDIMENT BASIN - INSPECTION AND MAINTENANCE**
- The key to a functional sediment basin is weekly inspections, routine maintenance, and regular sediment removal.
  - Attention to sediment accumulations within the basin is extremely important. Accumulated sediment deposition should be continually checked and removed when necessary.
  - Remove accumulated sediment when it reaches 50% of the design sediment storage volume or 1/2 the height of the riser structure, whichever is reached first.
  - Removed sediment from the basin shall be placed in stockpile storage areas or spread thinly across the disturbed area. Stabilize the removed sediment after it is relocated.
  - Inspections of sediment basins should be conducted once every calendar week and, as recommended, within 24-hours of each rainfall event that produces 1/4-inch or more of precipitation.
  - All temporary sediment basins, which are not to be converted to a detention basin post-construction, should be removed within 30 days after final site stabilization is achieved.
  - Disturbed areas resulting from the removal of the sediment basin should be permanently stabilized and additional BMPs, such as silt fence, should be utilized to accept stormwater runoff from this disturbed area until final stabilization is reached.

South Carolina Department of Health and Environmental Control  
**DRY SEDIMENT BASIN**  
 STANDARD DRAWING NO. SC-01 Page 3 of 3  
 GENERAL NOTES



**PROFILE**

**Dry Storm Water Detention Ponds**  
 Dry pond inside slopes should not be more than 3:1.  
 The pond floor should have a minimum slope of 2% toward the outlet or underdrain system. Adequate maintenance access must be provided for all dry detention and dry ID ponds.  
**Low Flow Channel**  
 A low flow channel should be provided to prevent standing water conditions. This channel should be protected to prevent scouring. The remainder of the pond should drain toward this channel. Where recreational uses are desired, the low-flow channel should be placed to one side instead in the middle of the pond.  
**Outlet**  
 For a dry detention pond, the outlet structure is sized for water quality control and water quantity control (based upon hydrologic routing calculations) and can consist of a weir, orifice, outlet pipe, combination outlet, or other acceptable control structure.  
 A low flow orifice capable of releasing the water quality volume over 24 hours must be provided. The water quality orifice should have a minimum diameter of 2-inches and should be adequately protected from clogging by an acceptable external trash rack.  
 The outfall of dry ponds should always be stabilized to prevent scour and erosion. If the pond discharges to a channel with dry weather flow, care should be taken to minimize tree clearing along the downstream channel, and to reestablish a forested riparian zone in the shortest possible distance.  
**Emergency Spillway**  
 An emergency spillway must be included to pass the 100-year storm event. The spillway prevents pond water levels from overtopping the embankment and causing structural damage. The spillway must be designed and installed to protect against erosion problems.  
**Anti-seep Collars**  
 Seepage control or anti-seep collars should be provided for all outlet pipes.

**Inspection and Maintenance:**  
 Regular inspection and maintenance is critical to the effective operation of dry ponds as designed. Maintenance responsibility for a pond should be vested with a responsible authority by means of a legally binding and enforceable maintenance agreement that is executed as a condition of plan approval.

Inspections should be conducted semi-annually and after significant storm events to identify potential problems early. Most maintenance efforts will need to be directed toward vegetation management and basic housekeeping practices such as removal of debris accumulations and vegetation management to ensure that the pond dwelters completely to prevent mosquito and other habitats.

South Carolina Department of Health and Environmental Control  
**DRY PONDS**  
 STANDARD DRAWING NO. WQ-03 Page 2 of 2  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

<b>APPROVALS</b> Project Engr: _____ Drawn By: _____ Checked By: _____ Review: _____ Bid: _____ Construction: _____	<b>PREPARED BY</b>  P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390	<b>SEALS</b> 	<b>PROJECT</b> LAKE WYLIE MINI STORAGE ADDITION YORK COUNTY, SOUTH CAROLINA PREPARED FOR GREG SMITH	<b>SHEET TITLE</b> STORM DRAIN DETAILS	NO. DATE REVISIONS BY	SCALE: N.T.S. DATE: 7/18/2021 JOB NO.: 210705 SHEET C702

**GRASSING**  
**PART 1 - GENERAL**  
**RELATED DOCUMENTS**  
 Drawings and general provisions of the contract, including General Conditions, Supplementary Conditions, and Technical Specification sections, apply to work of this section.  
**DESCRIPTION OF WORK**  
 This specification pertains to planting, fertilizing, and cultivating grass on all fill slopes, cut slopes, and graded areas disturbed by installation of the utilities. Establish lawns and landscaped areas damaged by construction are to be restored to their former condition by seeding or sodding.  
**SUBMITTALS**  
 Submit seed vendor's certified statement for each grass seed mixture required, stating botanical and common name, percentage by weight, and percentages of purity, germination, and weed seed for each grass seed species.  
**DELIVERY, STORAGE, AND HANDLING**  
 Deliver packaged materials in containers showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery, and while stored at the site.  
**JOB CONDITIONS**  
 This specification is intended to provide a complete grassing procedure which is to be carefully followed. Some procedures may be adjusted, upon consultation with the Engineer, so as to meet unforeseen weather and soil conditions.  
 Proceed with and complete grassing work as rapidly as portions of the project site become available.  
**SPECIAL PROJECT WARRANTY**  
 Warranty grassing throughout the specified maintenance period, and until final acceptance.

**PART 2 - PRODUCTS**  
**SOIL AMENDMENTS**  
**Lime:** Natural dolomitic limestone containing not less than 85% total carbonates with a minimum of 30% magnesium carbonate, ground so that not less than 80% passes a 10-mesh sieve and not less than 50% passes a 100-mesh sieve.  
**Superphosphate:** Soluble mixture of treated minerals 20% available phosphoric acid.  
**Commercial Fertilizers:** Complete fertilizer of neutral character, with some elements derived from organic sources and containing the following percentages of available plant nutrients:  
 For grassing adjoining lawns, provide fertilizer with not less than 18% total nitrogen, 14% available phosphoric acid, and 12% soluble potash. Nitrogen is to be a form that will be available to grass during the initial growth period. At least 50% nitrogen is to be organic form. SOE slow release.  
 For grassing in unimproved areas, provide fertilizer with not less than 5% total nitrogen, 10% available phosphoric acid, and 10% soluble potash.  
**GRASS MATERIALS**  
**Sod:** Provide fresh, clean, Fescue sod complying with tolerance for purity and germination established by Official Seed Analysts of North America.  
**ANTI-EROSION MATERIALS**  
**Mulch:** Provide clean, seed-free hay or threshed straw of wheat, rye, oats, or barley.  
**Anti-Desiccant:** Provide liquid asphalt or emulsified asphalt type film-forming agent, designed to permit transpiration but prevent excessive loss of moisture. Deliver in manufacturer's fully identified containers and mix in accordance with manufacturer's instructions.  
 Liquid asphalt (kerosene thinned) is to be used during freezing weather. Liquid asphalt is to be either rapid or medium curing.  
 Emulsified asphalt (water thinned) is to be used when temperatures are above freezing.

**PART 3 - EXECUTION**  
**PREPARATION**  
**Preparation of Planting Soil:** Mix lime with dry soil prior to mixing of fertilizer. Prevent time from contacting roots of acid-loving plants.  
**Apply phosphoric acid fertilizer** (other than that constituting a portion of complete fertilizers) directly to subgrade before applying planting soil and tilling.  
**Preparation of Seed Bed:** Loosen subgrade of areas to be grassed to a minimum depth of 4". Remove stones of 1 1/2" in any dimension and sticks, roots, rubbish and other extraneous matter. Limit preparation to areas which will be planted promptly after preparation.  
 Seed bed is to conform to ground elevations as shown on the Construction Drawings, or as was existing prior to construction. Light raking and natural settlement should be taken into account. The complete seed bed should blend uniformly into the surrounding topography.  
 Good surface drainage of the bed must be provided. Visible ponding will not be allowed.  
 Apply specified commercial fertilizer at the specified rates, and thoroughly mix into the upper 2" of the seed bed. Delay application of fertilizer if lawn planting will not follow within a few days.  
 In established lawn areas, fine grade seed bed to a smooth, even surface with loose, uniform fine texture. Roll, rake, and drag lawn areas, remove ridges and fill depressions as required to meet finished grades. Limit fine grading to areas which can be planted immediately after grading.  
 Moisten prepared lawn areas before grassing if soil is dry. Water thoroughly and allow surface moisture to dry before planting. Do not create a muddy soil condition.  
 Prepare seed beds to specified conditions if seeded or otherwise disturbed after fine grading and prior to planting.

**SEEDING**  
 Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage.  
 Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour. Distribute seed evenly over entire area by sowing equal quantity in two directions at right angles to each other.  
 Sow not less than the quantity of seed specified.  
 Rake seed gently into the top 1/8 inch of soil, roll lightly, and water with a fine spray. Protect seeded slopes against erosion by spreading specified lawn mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1 1/2 inch loose measurement, over seeded areas.  
**HYDROSEEDING NEW LAWNS**  
 Mix specified seed, fertilizer, and pulverized mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry, suitable for hydraulic application.  
 Apply slurry uniformly to all areas to be seeded. Rate of applications is to be as required to obtain specific seed sowing rate.

**MULCHING RATES**  
 After fertilizing, seeding, raking, and tilling, dried straw is to be uniformly spread over the area at the rate of 90 pounds per 1000 square feet. Straw is to be sprayed with liquid asphalt to bond and anchor it.  
 Liquid asphalt (kerosene thinned) is to be applied at a rate of 150 gallons per ton of straw (approximately 7 gallons per 1000 square feet).  
**Preparation of Planting Soil:** Mix lime with dry soil prior to mixing of fertilizer. Prevent time from contacting roots of acid-loving plants.  
**Apply phosphoric acid fertilizer** (other than that constituting a portion of complete fertilizers) directly to subgrade before applying planting soil and tilling.  
**Preparation of Seed Bed:** Loosen subgrade of areas to be grassed to a minimum depth of 4". Remove stones of 1 1/2" in any dimension and sticks, roots, rubbish and other extraneous matter. Limit preparation to areas which will be planted promptly after preparation.  
 Seed bed is to conform to ground elevations as shown on the Construction Drawings, or as was existing prior to construction. Light raking and natural settlement should be taken into account. The complete seed bed should blend uniformly into the surrounding topography.  
 Good surface drainage of the bed must be provided. Visible ponding will not be allowed.  
 Apply specified commercial fertilizer at the specified rates, and thoroughly mix into the upper 2" of the seed bed. Delay application of fertilizer if lawn planting will not follow within a few days.

**SODDING**  
 Do not use sod which is moldy or otherwise damaged in transit or storage.  
 Protect sodded slopes against erosion by spreading specified lawn mulch after completion of sodding operations.  
**MAINTENANCE**  
 Begin maintenance immediately after planting.  
 Moisten seeded areas for not less than 60 days after substantial completion, and longer as required to establish an acceptable stand. If seeded in fall and not given full 60 days of maintenance, or if not considered acceptable at that time, continue maintenance the following spring until an acceptable stand is established.  
 Maintain grassing by watering, fertilizing, weeding, mowing, trimming, and other operations such as rolling, regrading and replanting as required to establish a smooth, acceptable lawn, free of eroded bare areas.

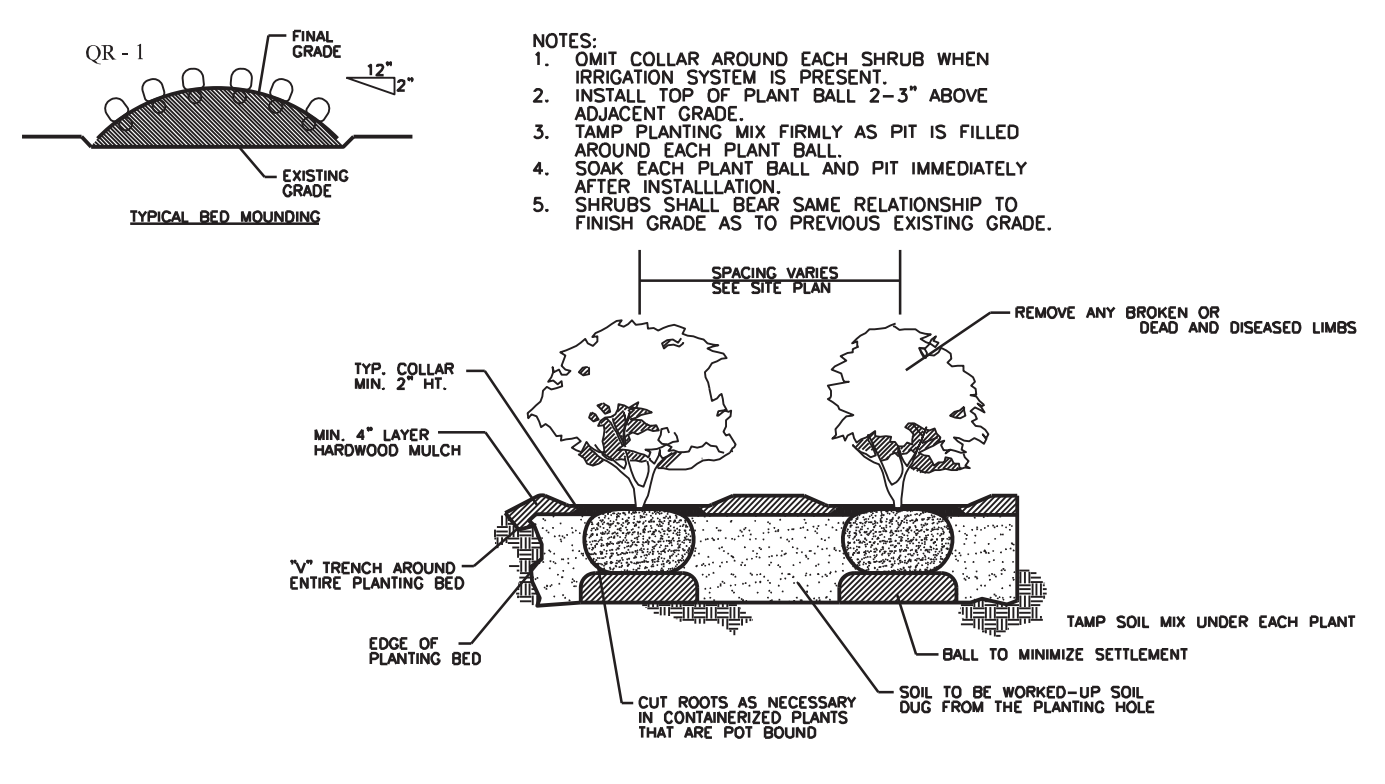
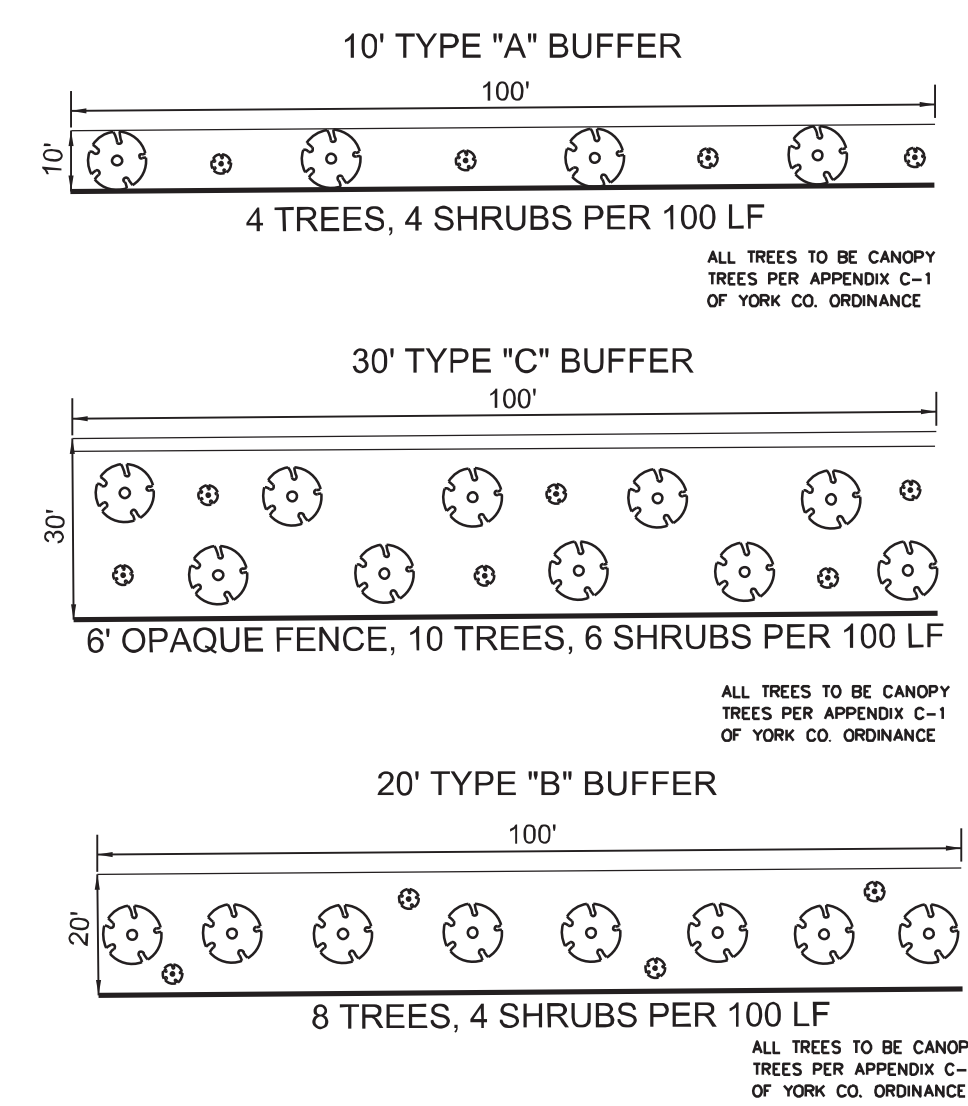
**INSPECTION AND MAINTENANCE**  
 When grassing is completed, including maintenance, the Landscape Architect will, upon request, make an inspection to determine acceptability.  
 Grassing may be inspected for acceptance in parts agreeable to the Landscape Architect, provided work offered for inspection is complete, including maintenance.  
 When inspected grassing does not comply with the requirements, replace rejected work and continue specified maintenance until re-inspected by the Landscape Architect and found acceptable.

**SEASONAL SEEDING MIXTURES AND RATES OF APPLICATION**  
 Seasonal seeding mixtures and rates of application shall be as follows. All rates are in pounds per 1000 square feet.  
 Seeding within right-of-way of state roadways will be accomplished in accordance with the requirements pertaining to maintained lawns.  
 Unless otherwise required by the State or the Engineer (pursuant to potential erosion of ditches or steep slopes) seed within road right-of-way will be treated the established lawns.

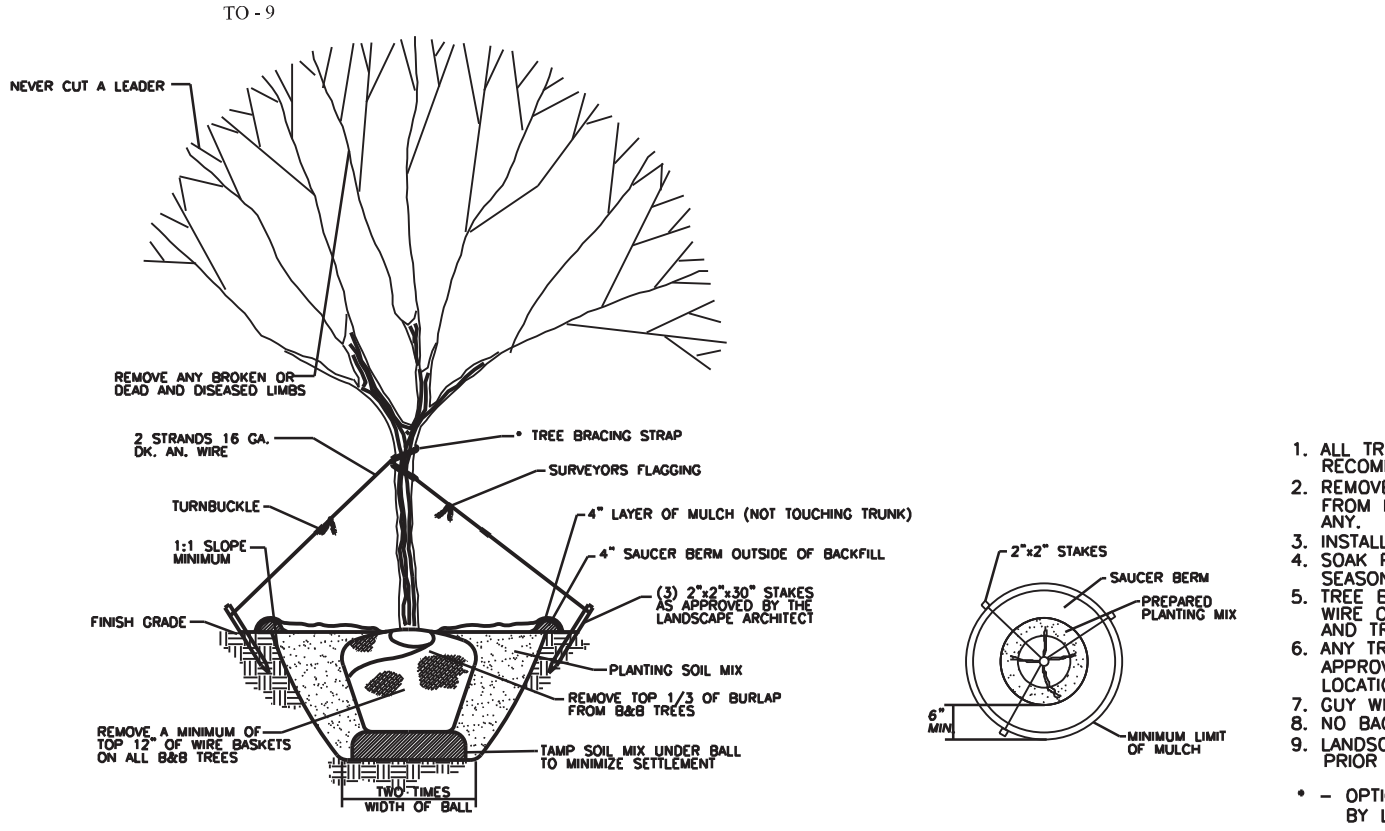
**GENERAL PLANTING NOTES**  
 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES IN THE PLANT LIST. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT. ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.  
 2. ALL TREES, SHRUBS AND PLANTS SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN.  
 3. ALL PLANT MATERIAL SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.  
 4. THE TOP OF THE ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS BORN TO PREVIOUS GROWING CONDITIONS.  
 5. ALL ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING.  
 6. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL.  
 7. MULCH A MIN. FOUR (4) FOOT AREA AROUND EACH TREE. MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN, WITHIN 2 DAYS AFTER PLANTS ARE INSTALLED. MULCH SHALL BE 3-4 IN. OF PINE NEEDLE MULCH OR DOUBLE HAMMERED SHREDED MULCH.  
 8. LANDSCAPE CONTRACTOR SHALL REMOVE TOP 1/3 OF ALL WIRE BASKETS, TOP 1/3 OF BURLAP AND ASSOCIATED TWINE AND STRAPPING FROM TREE ROOT BALLS PRIOR TO FINAL ACCEPTANCE OF PLANTS.  
 9. TOPSOIL SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING ALL PITS FOR PLANTS. PROVIDE TOPSOIL WHICH IS FERTILE, FRIABLE, NATURAL LOAM SURFACE SOIL, REASONABLY FREE OF SUB-SOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1" IN ANY DIMENSION, AND OTHER EXTRANEUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL HAVE 2-5% MIN. ORGANIC MATTER, A 60% MAX. CLAY CONTENT, AND PH VALUE OF 6-6.5.  
 10. ALL BEDS SHOULD BE TILLED PRIOR TO ADDING PLANTING MIX. PLANTING MIX SHALL CONSIST OF 4" TOPSOIL, AS PER NOTE 9, 4" OF GROUND PINE BARK SOIL CONDITIONER AND 2" MUSHROOM COMPOST. AFTER PLACEMENT OF PLANTING MIX, ALL BEDS SHALL BE DEEP TILLED TO 12" DEPTH.  
 11. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.

**TOPSOIL PLANTING MIX - MINIMUM REQUIREMENTS:**  
 1. WHERE PAVEMENT CUTOUTS ON RENOVATED SITES ARE REQUIRED AND/OR WHERE NEW PLANTING STRIPS OR ISLANDS ARE REQUIRED, ALL PAVEMENT, CONSTRUCTION DEBRIS AND GRAVEL SUB-BASE MUST BE REMOVED BEFORE PREPARING SOIL AND PLANTING TREES. EXISTING COMPACTED SOIL MUST BE REMOVED AND REPLACED WITH 24" OF TOPSOIL/PLANTING MIX -OR- EXISTING SOIL MAY BE UNCOMPACTED TO A DEPTH OF 24" AND AMENDED TO MEET TOPSOIL STANDARDS.  
 2. SOIL IN ALL PLANTING STRIPS OR ISLANDS, WHETHER EXISTING OR NEW (ON NEW OR RENOVATED SITES), MUST MEET THE MINIMUM TOPSOIL/PLANTING MIX SPECIFICATIONS. SOIL AMENDMENTS OR FRESH TOPSOIL/PLANTING MIX ARE OFTEN NEEDED FOR PLANTING AREAS AT SITES WHERE ORIGINAL TOPSOIL IS OF POOR QUALITY, HEAVILY COMPACTED OR WHERE TOPSOIL HAS BEEN COMPLETELY REMOVED DURING GRADING.  
 3. TOPSOIL/PLANTING MIX SHOULD BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHOULD BE UNIFORM COMPOSITION THROUGHOUT, WITH A MIXTURE OF SUBSOIL. IT SHOULD BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS AND OTHER EXTRANEUS MATTER. TOPSOIL SHOULD NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION.  
 4. TOPSOIL/PLANTING MIX SHALL HAVE AN ACIDITY RANGE OF pH 5.5-7.0 AND THE FOLLOWING COMPOSITION:  
 - CLAY (RED CLAY, PULVERIZED) MINIMUM 10  
 - COMPOST\* MINIMUM 5  
 - SILT MINIMUM 50  
 - COARSE SAND (FREE OF ROCKS) MINIMUM 30 MINIMUM 30  
 5. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:  
 - NITROGEN 55 % - 80%  
 - PHOSPHOROUS 10%-30%  
 - POTASSIUM 5%-8%  
 \* MAXIMUM 50%  
 \* MAXIMUM 45%

**NOTE: ALL REMAINING DISTURBED AREAS TO BE SEEDED.**



**A SHRUB PLANTING DETAIL**  
 SCALE=NTS



**B TREE PLANTING DETAIL**  
 SCALE=NTS

**NOTES:**  
 1. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.  
 2. INSTALL TOP OF PLANT BALL 2-3" ABOVE ADJACENT GRADE.  
 3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.  
 4. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.  
 5. SHRUBS SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS TO PREVIOUS EXISTING GRADE.

1. ALL TREES TO BE GROWN IN A RECOGNIZED NURSERY IN ACCORDANCE WITH RECOMMENDATION AND REQUIREMENTS OF ANSI Z60.1 STANDARD FOR NURSERY STOCK.  
 2. REMOVE ALL TREATED OR PLASTIC-COATED BURLAP STRAPPING WIRE OR NYLON TWINE FROM ROOT BALL. AFTER SETTING IN HOLE, CUT AWAY TOP 12" OF WIRE BASKET, IF ANY.  
 3. INSTALL TOP OF PLANT BALL EVEN WITH OR 1" ABOVE EXISTING GRADE.  
 4. SOAK PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION. PLACE 4-6" OF SEASONED MULCH OR PINE NEEDLES AROUND BASE OF TREE. 3" DIAMETER MINIMUM.  
 5. TREE BRACING STRAPS ARE OPTIONAL. USE POLYPROPYLENE WEAVING ONLY. NO WIRE OR ROPE TO BE IN DIRECT CONTACT WITH TRUNK. REMOVE ALL TREE STRAPS AND TRUNK WRAP AFTER ONE GROWING SEASON.  
 6. ANY TREE PROPOSED FOR PLANTING ON THE STREET RIGHT-OF-WAY MUST BE APPROVED IN ADVANCE BY THE CITY ARBORIST AS TO SPECIES, SIZE AND LOCATION (CITY ONLY).  
 7. CUT WIRES ARE NOT PERMITTED IN STREET RIGHT-OF-WAY.  
 8. NO BACKFILL ALLOWED ON TOP OF ROOT BALL.  
 9. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING BURIED UTILITIES PRIOR TO INSTALLATION.  
 \* - OPTIONAL (TREE STAKING/BRACING MUST BE REMOVED AFTER 1 GROWING BY LANDSCAPE CONTRACTOR)

<b>APPROVALS</b> Project Engr: _____ Drawn By: _____ Checked By: _____  Review: _____ Bid: _____ Construction: _____	<b>PREPARED BY</b>  P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390	<b>SEALS</b> 	<b>PROJECT</b> LAKE WYLIE MINI STORAGE ADDITION  YORK COUNTY, SOUTH CAROLINA PREPARED FOR <b>GREG SMITH</b>	<b>SHEET TITLE</b> <b>LANDSCAPING DETAILS</b>	NO.	DATE	REVISIONS	BY	SCALE: N.T.S.
									DATE: 7/18/2021