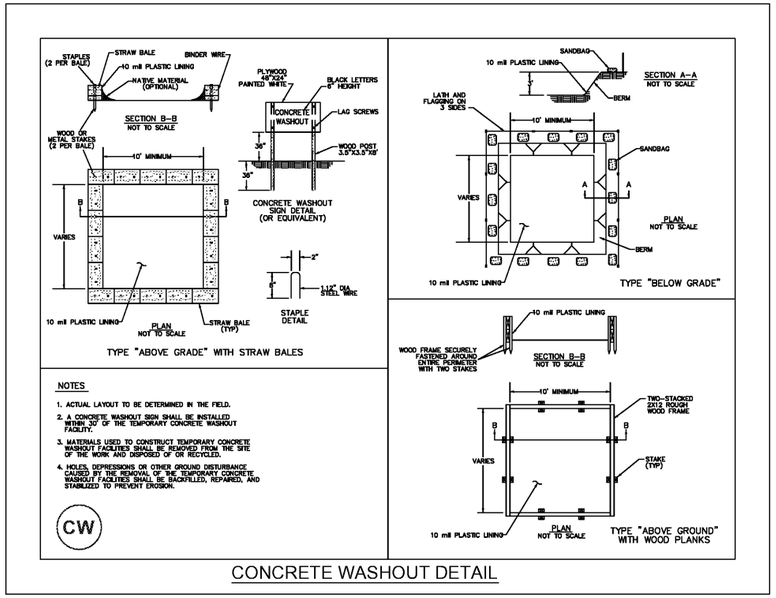


CONCRETE WASHOUT DETAIL

MAINTENANCE:

MATERIAL REMOVAL:
CHECK ALL CONCRETE WASHOUT FACILITIES DAILY TO DETERMINE IF THEY HAVE BEEN FILLED TO 75 PERCENT CAPACITY, WHICH IS WHEN MATERIALS NEED TO BE REMOVED. BOTH ABOVE- AND BELOW- GROUND SELF INSTALLED WASHOUTS SHOULD BE INSPECTED DAILY TO ENSURE THAT PLASTIC LININGS ARE INTACT AND SIDEWALLS HAVE NOT BEEN DAMAGED BY CONSTRUCTION ACTIVITIES. PREFABRICATED WASHOUT CONTAINERS SHOULD BE INSPECTED DAILY AS WELL TO ENSURE THE CONTAINER IS NOT LEAKING OR
NEARING 75 PERCENT CAPACITY. INSPECTORS SHOULD NOTE WHETHER THE FACILITIES ARE BEING USED REGULARLY; IF DRIVERS WASH OUT THEIR CHUTES OR HOPPERS IN OTHER LOCATIONS, THE SITE SUPERINTENDENT MAY NEED TO PROVIDE MORE EDUCATION. INSTALL ADDITIONAL SIGNAGE, OR PLACE ADDITIONAL WASHOUTS IN MORE CONVENIENT LOCATIONS.

INSPECTION:
CONCRETE WASHOUTS ARE DESIGNED TO TO PROMOTE EVAPORATION WHERE FEASIBLE. HOWEVER, IF STORED LIQUIDS HAVE NOT EVAPORATED AND THE WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THEM IN AN APPROVED MANNER - CHECK WITH THE LOCAL SANITARY SEWER AUTHORITY TO DETERMINE IF THERE ARE SPECIAL DISPOSAL REQUIREMENTS FOR CONCRETE WASH WATER. REMOVE LIQUIDS OR COVER THE STRUCTURES BEFORE PREDICTED RAINSTORMS TO PREVENT OVERFLOWS. COMPANIES
THAT OFFER PREFABRICATED AND WATERTIGHT WASHOUT CONTAINERS GENERALLY OFFER A VACUUM SERVICE TO REMOVE THE LIQUID MATERIAL.
HARDENED SOLIDS CAN BE REMOVED WHILE WHOLE OR CAN BE BROKEN UP FIRST DEPENDING ON THE TYPE OF EQUIPMENT AVAILABLE AT YOUR SITE. SOLIDS CAN BE REUSED ONSITE OR HAUL THEM AWAY FOR RECYCLING - CRUSHED CONCRETE MAKES EXCELLENT AGGREGATE FOR ROADBEDS AND OTHER BUILDING APPLICATIONS. CHECK WITH THE LOCAL RECYCLING AGENCY TO IDENTIFY OPPORTUNITIES FOR CONCRETE
RECYCLING. WHEN MATERIALS ARE REMOVED FROM THE CONCRETE WASHOUT, BUILD A NEW STRUCTURE OR, IF THE PREVIOUS STRUCTURE IS STILL INTACT, INSPECT THE STRUCTURE FOR SIGNS OF WEAKENING OR DAMAGE AND MAKE ANY NECESSARY REPAIRS. LINE THE STRUCTURE WITH NEW PLASTIC THAT IS FREE OF HOLES OR TEARS AND REPLACE SIGNAGE IF NECESSARY. IT IS VERY IMPORTANT THAT NEW PLASTIC IS USED AFTER EVERY CLEANING BECAUSE PUMPS AND CONCRETE REMOVAL EQUIPMENT CAN DAMAGE THE EXISTING LINER.

TABLE 3.14 PERMANENT VEGETATION SCHEDULE

Species	Rates (lbs/acre)	Optimum Dates to Plant	Remarks
Bahia Grass (Alone)	40	March 20 – June 15	Slow to become established
Bahia Grass (Mix)*	30	March 20 – June 15	Slow to become established
Bermuda Grass (Hulled) (Alone)	8–12	April – July 15	Quick cover, Sod forming, partial winter KR
Bermuda Grass (Hulled) (Mix)*	4–8	April – July 15	Quick cover, Sod forming, partial winter KR
Peanuts, Tall (KY-31) Alone	40	August 15 – October	Seldom seeded alone, not for dry or wet sites
Peanuts, Tall (KY-31) Mix*	20	August 15 – October	Seldom seeded alone, not for dry or wet sites
Sericea Lespedeza (Scarified) Alone or Mix* (Innoculate with EL Innoculant)	40	April –June	Good for slopes, ruts, and fills that require low maintenance
Lespedeza Common (Mix* only) (Innoculate with AB Innoculant)[1]	2	August 20 – October	Naturally adds nitrogen

* For details on mixes consult the Lexington Soil and Water Conservation District, (803) 359–3160 ext. 3.

TABLE 3.15 PERMANENT VEGETATION SCHEDULE FOR STEEP SLOPES/CUT SLOPES

Species	Rates (lbs/acre)	Optimum Dates to Plant	Remarks
Weeping Lovegrass (Alone)	4	April – July 20	Quick cover, deep roots, likes dry sites, seldom used alone, clumps
Weeping Lovegrass (Mix)*	2	April – July 20	Quick cover, deep roots, likes dry sites, seldom used alone, clumps

TABLE 3.18 NATIVE SPECIES THAT CAN BE USED ON NON-CRITICAL LEVEL SITES IN LEXINGTON COUNTY, SC

Species	Rates (lbs/acre)	Optimum Dates to Plant	Remarks
Switchgrass (Mix* with Legumes)	10, PLS**	February 10 – April 20	Mix with Sericea at 30 lbs/acre
Indian Grass (Mix)*	8, PLS**	February – April 20	Mix with Sericea at 30 lbs/acre
Little Bluestem, (Mix*)	8, PLS**	February 10 – April	

* Pure Live Seed

LEXINGTON COUNTY PUBLIC WORKS DEPARTMENT
PERMANENT VEGETATION NOTES & SCHEDULE (Sheet 2 of 2)
DATE: 10/20/2017
DATE: October 2017

First Question
Plant seed selection should be based on the type or soil, the season of the year in which the planting is to be done, and the needs and desires of the permanent vegetation. Tables 3.14 and 3.15 should be used to select the seeded species as is planned. Failure to carefully follow agronomic recommendations when result in an inadequate stand of permanent vegetation that provides little or no erosion control. The notes in Tables 3.14 and 3.15 are based on purity and germination standards required for certification.

The following notes apply to Tables 3.14 and 3.15.
1. In inclusions with temporary cover, the full seeding rate of permanent cover shall be used.
2. Mix means 2 or more pure farm species plus short term species. For other than those minimum, see the Lexington Soil and Water Conservation District (803) 359–3160 ext. 3.
3. A legume, such as a clover, crown vetch, and perwick should be used where it is possible.
4. The appropriate innoculants should be used.

Topsoil
If the surface soil of the seedbed is not adequate for grass growth, topsoil should be applied.

Tillage
If the area has been recently plowed, no tillage is required other than rolling or surface floodgrading to break any crust that may have formed on the surface. If the soil is compacted less than 6–inches, it should be disked for optimal germination. If the soil is compacted more than 6–inches, it should be sub-soiled one direction.

Soil Testing
Information and test provided is available from the PSU/SWC and the Soil and Water Conservation District Office.

Lime
Unless a specific soil test indicates otherwise, apply 1+ tons of ground course textured agricultural limestone per acre (70 lbs per 1000 square feet).

Fertilizer
A minimum of 1000 pounds per acre of a complete 10-10-10 fertilizer (23 pounds per 1000 square feet) shall be applied and worked into the soil at time of seedbed preparation. Soil tests may indicate a requirement above the minimum. Apply permanent seedings of grasses unless a soil test indicates a different requirement. Fertilizer and lime of types specified may be applied to the area 4–8 inches of the soil by plowing or other means where conditions allow. Do not mix the lime and the fertilizer prior to the time of application.

Seeding
The surface of the soil should be loosened just before seeding by raking, harrowing, or other means. Grass seed should be sown evenly applied by the most convenient method available for the type of seed to be applied. Typical applications may include but are not limited to: hydroseeding, broadcast spreaders, drop spreaders, broadcast spreaders, hand spreaders, cultipacker seeder, and hydro-seeders. Seeds applied seed to a depth of ¼–inch. Cultipacking or rolling after seeding will firm the soil. Lightly firm the area with a roller or cultipacker. Do not roll seed that is applied with a hydro-seeder and have been mulched.

Mulching
All permanent seeded areas should be covered with mulch. Mulch may be applied upon completion of the seeding application to retain soil moisture and reduce erosion during establishment of vegetation. The mulch should be applied evenly over the area in a manner that provides a minimum of 75% coverage. Typical mulch applications include straw, wood chips, hulls, wood fiber, and cellulose. Permanent seedings may also be mulched with netting or applied simultaneously to prevent it from being blown or carried away. The straw mulch may be applied by hand or by machine at the rate of 2 tons per acre (90 pounds per 1000 square feet). Frequent inspections are necessary to make sure that conditions for growth are adequate.

Maintenance
Permanent seedings should be kept adequately supplied with water during the specific growing seasons. Irrigate the seeded area if normal rainfall is not adequate for the germination and growth of seedlings. Water seeded areas with a fine spray to avoid washing seed and mulch into piles. Do not overwater to the point of causing runoff or erosion. Other needed actions include repairing washouts, regrading, reseeding, and applying additional mulch. Make these repairs as soon as practical after the problem is noticed. Refertilize if growth or color indicates need. Inspect seedings at least twice annually, and repair any areas in which the stand of grass has been severely damaged or destroyed. Areas that fail to have a uniform stand of grass should be reseeded. Spot reseed any eroded areas and cover with mulch.

Fertilizing
Inspect permanent seedings each year for failure. Make necessary repairs and re-seed or sodseed within the same growing season. If more than 25% of the grass cover is gone or patchy, re-establish the choice of grass and follow the practices of lime and fertilizer application. If permanent seedings have less than 40% cover, have the soil tested to determine any additional lime and fertilizer requirements. Treat inadequately established areas as necessary. Mow permanent seedings that will be maintained as mowed turf. Mow when grass is 6–inches tall. Do not cut shorter than 3–inches.

Fertilizer Application
Nitrogen use guidelines for permanent seedings can be converted to native species or for establishing an non-critical level seeding. Apply 5–lbs pure live seed native species of Lexington County that can be used.

LEXINGTON COUNTY PUBLIC WORKS DEPARTMENT
PERMANENT VEGETATION NOTES & SCHEDULE (Sheet 1 of 2)
DATE: 10/20/2017
DATE: October 2017

EROSION CONTROL NOTES

1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN ISSUED BY GOVERNING AUTHORITIES.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE & LOCAL ORDINANCES THAT APPLY.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDER WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF ONCE AT LEAST ONCE EVERY CALENDER WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
4. THE EROSION CONTROL MEASURES INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING & MAINTAINING CONTROL PRACTICES AS SHOWN ON THIS PLAN. IF SHOWN ON THESE PLANS, ENERGY-DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL. STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL SITES REMAINING UNDISTURBED FOR MORE THAN 14 DAYS.
5. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, & OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES & UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS & GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION AS SHOWN ON THESE PLANS.
8. 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 WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. OR WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, & EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE IN INITIATED ON THAT PORTION OF THE SITE. 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 CALENDER DAYS.
9. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, & FOLLOWING THE PLANS & SPECIFICATIONS INCLUDED HEREIN.
10. DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS & OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH DHEC'S MANUAL, "SOUTH CAROLINA STORMWATER MANAGEMENT & SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES".
11. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH "SOUTH CAROLINA STORMWATER MANAGEMENT & SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES".
12. 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.
13. 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 & ALL WoS. A 10-FOOT BUFFER SHALL MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE & ALL WoS.
14. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, & BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) & CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
15. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES & 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 & THE SITE IS STABILIZED.
16. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
17. THE APPROVED EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF OCNSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
18. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR NATATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
19. IF SYNTHETIC OR PERMANENT VEGETATIVE MATTING IS USED, THE MANUFACTURER'S REPRESENTATIVE WILL APPROVE IN WRITING, THE INSTALLATION OF THE MATERIAL. A LETTER WILL BE PROVIDED TO THE ENGINEER & OWNER.
20. IF THE INSTALLATION OF THE STORM DRAINAGE SYSTEM IS INTERRUPTED BY WEATHER OR NIGHTFALL, PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
21. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SILT EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, & STABILIZED WITH GRASSING IMMEDIATELY AFTER EACH UTILITY INSTALLATION. FILL, COVER, & COMPACT AT THE END OF EACH DAY ARE REQUIRED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES & EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
22. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE DETENTION POND SEDIMENT BASIN AT SUCH TIME AS IT REACHES A DEPTH OF 0.5 FEET ABOVE THE DESIGN BOTTOM ELEVATION OF THE POND/BASIN. DISPOSAL OF THE MATERIAL IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR.
23. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE DETENTION POND/SEDIMENT BASIN AFTER THE SITE IS STABILIZED, ENSURING THAT THE DESIGN VOLUME OF THE POND/BASIN WILL BE RESTORED.
24. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, INCLUDING 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.
25. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE & THE SITE IS STABILIZED.
26. THE CONTRACTOR SHALL RECYCLE OR REUSE TOPSOIL ON SITE TO THE EXTENT POSSIBLE PRIOR TO FINAL GRADING AND STABILIZATION.
27. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AT HIS EXPENSE TO REDUCE EROSION & PREVENT SEDIMENT FROM LEAVING THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL CLEANUP & REPAIR ON-SITE & DOWNSTREAM DUE TO EROSION & SEDIMENTATION.
28. 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 INDIVIDUALIZATION IN ACCORDANCE WITH S.C. REG 72-300 ET SEQ. AND SCR100000.
29. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
30. THE FOLLOWING DISCHARGES FROM THE SITE ARE PROHIBITED: WASTEWATER FROM THE WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM THE 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 AND SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
31. 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 EVEN IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
32. 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 NONLINEAR PROJECTS THAT DISTURB 10-ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

TEMPORARY SEEDBED PREPARATION

1. SURFACE WATER CONTROL MEASURES SHALL BE INSTALLED ACCORDING TO PLAN.
2. AREA TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOP SOIL 3" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 9" DEEP.
3. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION, AT FINISH GRADES SHOWN, SHALL BE REASONABLY SMOOTH AND UNIFORM.
4. IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME TO BE ACCORDING TO SEEDING SCHEDULE, IN ADDITION, PROVIDE 15 LBS./100 SF. OF SUPERPHOSPHATE.
5. IF SOIL TEST IS TAKEN, PROVIDE LIME AND FERTILIZER ACCORDING TO SOIL TEST REPORT.
6. LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
7. MULCH TO BE TACKED OR MECHANICALLY TIED DOWN WITHIN TWO DAYS AFTER MULCH IS SREAD.

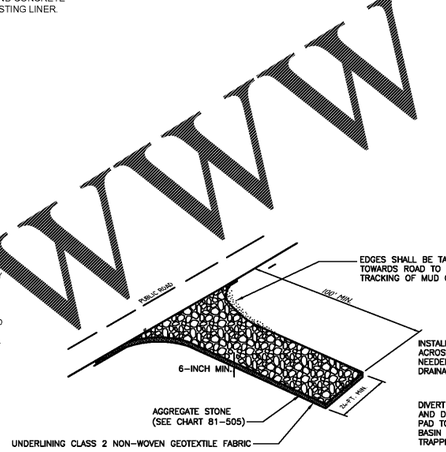
TEMPORARY SEEDING SCHEDULE

FROM MAY 1 - AUGUST 31			FROM SEPTEMBER 1 - APRIL 30		
1	POUND	BROWNTOPMILLET	2	POUNDS	ANNUAL RYE GRASS
2	POUNDS	HULLED BERMUDA	0.5	POUND	HULLED BERMUDA
25	POUNDS	10-10-10 FERTILIZER	1.5	POUNDS	UNHULLED BERMUDA
75	POUNDS	LIMESTONE	25	POUNDS	10-10-10 FERTILIZER
		OR	75	POUNDS	LIMESTONE
					OR
1	POUND	BROWNTOPMILLET			
2	POUNDS	HULLED BERMUDA	2	POUNDS	ANNUAL RYE GRASS
2	POUNDS	BAHIA GRASS	0.5	POUND	HULLED BERMUDA
25	POUNDS	10-10-10 FERTILIZER	1	POUND	UNHULLED BERMUDA
75	POUNDS	LIMESTONE	2	POUNDS	BAHIA GRASS
		OR	25	POUNDS	10-10-10 FERTILIZER
		(DEEP SANDY SOILS)	75	POUNDS	LIMESTONE
1	POUNDS	BROWNTOPMILLET			OR
2	POUNDS	BAHIA GRASS			
25	POUNDS	10-10-10 FERTILIZER	1	POUND	ANNUAL RYE GRASS
75	POUNDS	LIMESTONE	3**	POUNDS	FESCUE GRASS
			25	POUNDS	10-10-10 FERTILIZER
			75	POUNDS	LIMESTONE
					OR
					(DEEP SANDY SOILS)
			1	POUND	UNHULLED BERMUDA
			2	POUNDS	RYE GRASS/GRAIN RYE
			2	POUNDS	BAHIA GRASS
			25	POUNDS	10-10-10 FERTILIZER
			75	POUNDS	LIMESTONE

* BAHIA GRASS IS A GOOD EROSION CONTROL GRASS; HOWEVER, IT PRODUCES MANY SEED HEADS WHICH SCATTER TO OTHER AREAS. BAHIA GRASS IS HARD TO MOW, BUT IT DOES NOT REQUIRE THE CARE THAT OTHER GRASSES REQUIRE. AROUND OFFICE BUILDINGS AND WITHIN SUBDIVISIONS, USE 4 TO 6 OUNCES OF CENTIPEDE GRASS IN LIEU OF BAHIA GRASS OR IN COMBINATION WITH BERMUDA GRASS.

**FOR SOILS WITH CLAY SUBSOIL. DO NOT PLANT IN SANDY SOILS.

NOTES:
1. ON ALL VEGETATED SWALES OR DITCHES WITH SIDE SLOPES (CUT OR FILL) STEEPER THAN 2:1, ADD 4 TO 6 OUNCES PER 1,000 SQUARE FEET OF WEEPING LOVE GRASS SEED TO ANY OF THE ABOVE MIXTURES.
2. SWALE AND DITCH BOTTOMS SHOULD BE DOUBLE SEEDED.
3. ALL SLOPES STEEPER THAN 2:1 SHALL BE HYDROSEEDED.
4. GROWTH OF RYE GRASS IN EARLY SPRING MUST BE SUPPRESSED TO PREVENT RYE FROM CHOKING OUT PERMANENT GRASS SUCH AS BERMUDA, BAHIA OR FESCUE.



STABILIZED CONSTRUCTION ENTRANCE

When and Where to Use It
Stabilized construction entrances should be used at all points where traffic will be leaving a construction site and moving directly onto a public road.

Important Considerations
If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried offsite. Washdown facilities shall be required as directed by SCDHEC as needed. Washdown areas in general must be established with crushed gravel and drain into a sediment trap or sediment basin. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by vehicles.

Installation:
–Remove all vegetation and any objectionable material from the foundation area.
–Divert all surface runoff and drainage from stones to a sediment trap or basin.
–Install a non–woven geotextile fabric prior to placing any stone.
–Install a culvert pipe across the entrance when needed to provide positive drainage.
–The entrance shall consist of 1–inch to 3–inch D50 stone placed at a minimum depth of 6–inches.
–Minimum dimensions of the entrance shall be 24–feet wide by 100–feet long, and may be modified as necessary to accommodate site constraints.
–The edges of the entrance shall be tapered out towards the road to prevent tracking of mud at the edge of the entrance.

Inspection and Maintenance:
Inspect construction entrances every seven (7) calendar days and within 24–hours after each rainfall event that produces ½–inches or more of precipitation, or after heavy use. Check for mud and sediment buildup and pad integrity. Make daily inspections during periods of wet weather. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control.

Wash or replace stones as needed and as directed by the inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off–site by vehicles. Frequent washing will extend the useful life of stone.

Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

Repair any broken pavement immediately.

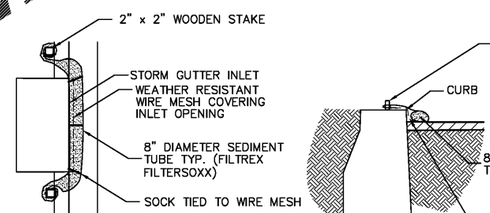
TEMPORARY CONSTRUCTION ENTRANCE

NTS

CHART 815–505 STABILIZED CONSTRUCTION ENTRANCE STONE AGGREGATE	
NOMINAL SIZE (SIEVES WITH SQUZRE OPENINGS)	PERCENT PASSING (%)
3"	100
1–1/2"	35 TO 100
3/4"	0 TO 15

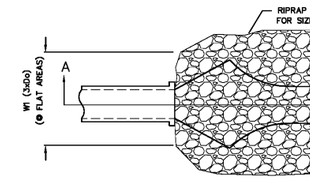
TEMPORARY CONSTRUCTION ENTRANCE (CE)

NTS



SEDIMENT TUBE INLET PROTECTION DETAIL (IP)

MAINTENANCE
WITH A STIFF BRISTLE BROOM, SWEEP SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT.



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