

Erosion & Sediment Control Technical Bulletin No. 4
Nutrient Management for Development Sites

C. When applying maintenance fertilizer on established sod,

Pounds of nitrogen per 1,000 sq. ft. if the fertilizer is less than 50 percent WIN					
Month	Tall Fescue Perennial Rye	Kentucky Bluegrass	Bermudagrass	Zoysiagrass	
September	1	1	0	0	
October	1	1	0	0	
Early November	0	0	0	0	
April	0	0	0	0	
May	0-0.5	0-0.05	1	1	
June	0	0	1	0	
July/August	0	0	0	1	
Yearly Lbs. N/1000 sq ft	2.5	2.5	2	2	

Pounds of nitrogen per 1,000 sq. ft. if the fertilizer is more than 50 percent WIN					
Month	Tall Fescue Perennial Rye	Kentucky Bluegrass	Bermudagrass	Zoysiagrass	
August 15	1.5	1.5	0	0	
October 1	1.5	1.5	0	0	
April	0	0	1.5	1.5	
May 15	0	0	0	0	
June	0	0	1.5	1.5	
Yearly Lbs. N/1000 sq ft	3	3	3	3	

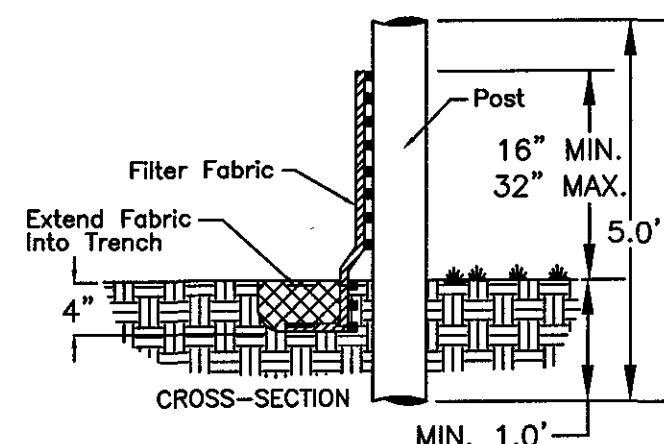
FERTILIZER SPECIFICATIONS AND
RATES FOR MANAGEMENT

TABLE 3.32-C (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA		
LAND USE	SEED SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ¹ Perennial Ryegrass ² Kentucky Bluegrass ³	90-100% 0-10% 0-10% TOTAL: 200-250 lbs.
High-Maintenance Lawn	Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia ⁴	TOTAL: 125 lbs.
General Slope (3:1 or less)	Tall Fescue ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ²	125 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ² Crownvetch ⁴	100 lbs. 2 lbs. 20 lbs. TOTAL: 120 lbs.
1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4864 or at http://euden.ces.vt.edu/html/TurfgrassPublications/publications2.html 2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescues, thereby providing cover and erosion resistance for seedbed. 3 - Use seasonal nurse crop in accordance with seeding dates as stated below: March, April - May 15 th Annual Rye May 16 th - August 15 th Fescue Millet August 16 th - September, October Annual Rye November - February Winter Rye 4 - All legume seed must be properly inoculated. If Flatpea is used, increase to 30 lbs/acre. If Veeving Legume is used, include in any slope or low maintenance mature during warmer seeding periods, increase to 30-40 lbs/acre.		
FERTILIZER & LIME		
• Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.) • Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)		
NOTE: 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. 2 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means. 3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/esw/esw.htm#nmb4		

PS PERMANENT SEEDING
SPECIFICATIONS

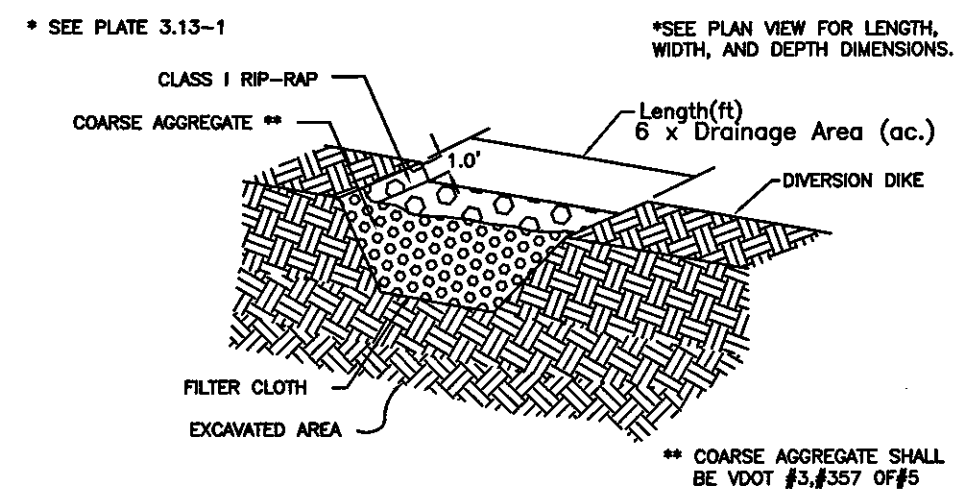
TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS		
APPLICATION DATES	SEED SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi- florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)
FERTILIZER & LIME		
• Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.) • Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)		
NOTE: 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site. 2 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means. 3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/esw/esw.htm#nmb4		

TS TEMPORARY SEEDING
SPECIFICATIONS

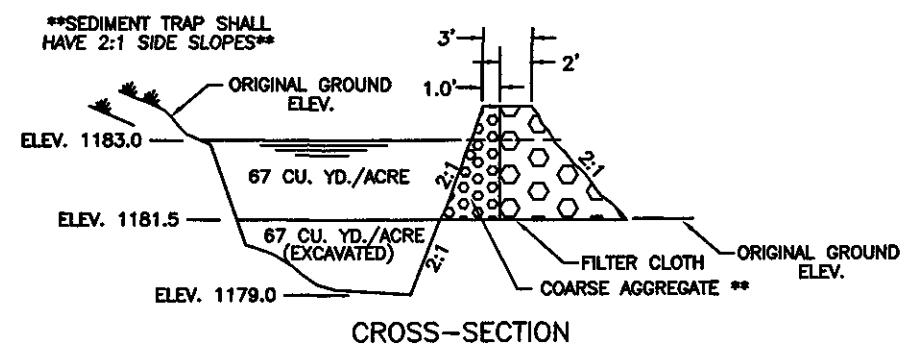


SF CONSTRUCTION OF A SILT FENCE
EROSION AND SEDIMENT CONTROL STANDARD - 3.05

SEDIMENT TRAP DETAIL

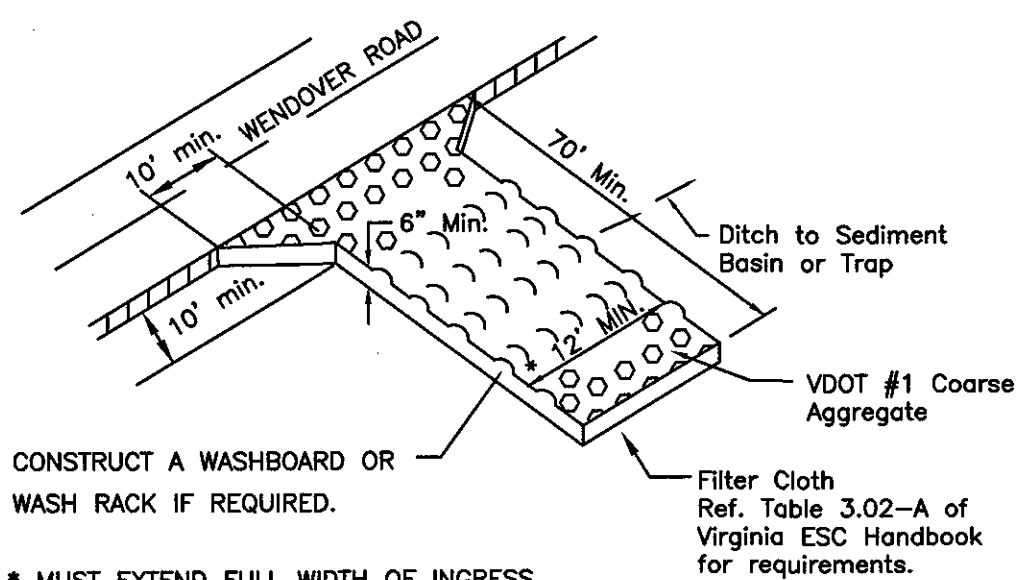


ST SEDIMENT TRAP

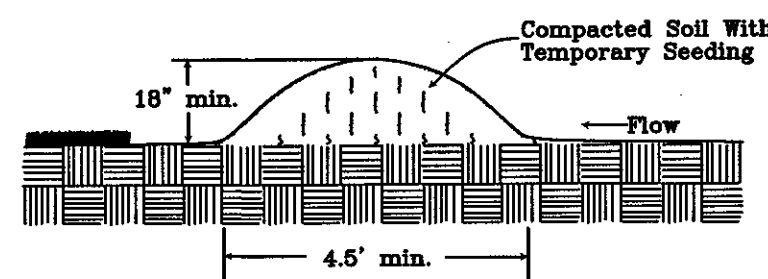


SEDIMENT TRAP SUMMARY TABLE

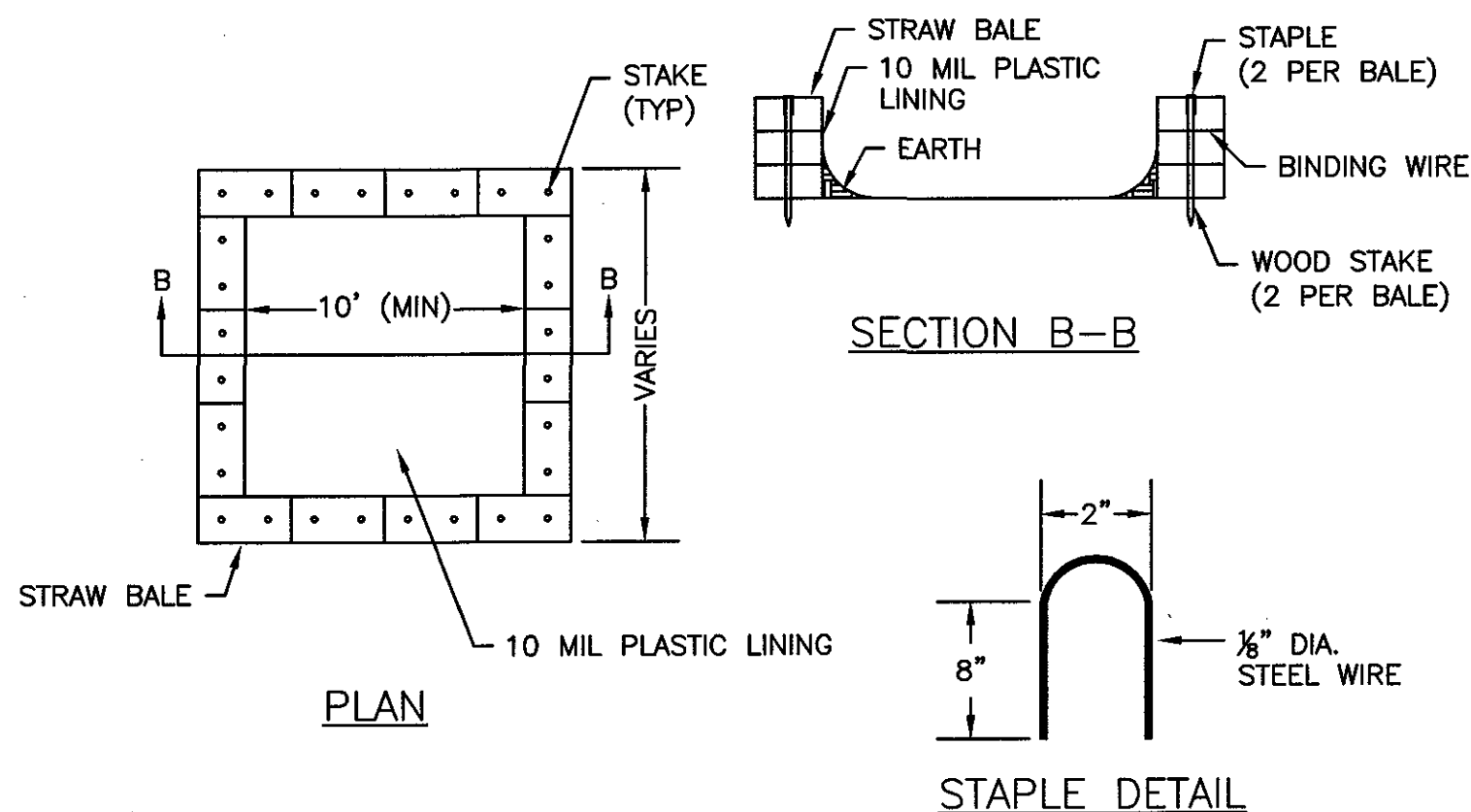
DRAINAGE AREA ID	ST-1
TOTAL DRAINAGE AREA SIZE	1.83 AC
BOTTOM LENGTH	112 FT
BOTTOM WIDTH	7 FT
DEPTH	4 FT
BERM HEIGHT	1 FT
WEIR LENGTH	11 FT
WEIR HEIGHT	1.5 FT
STORAGE REQUIRED (CY)	123 WET - 123 DRY
STORAGE PROVIDED (CY)	134 WET - 136 DRY



CE TEMPORARY GRAVEL
CONSTRUCTION ENTRANCE



DD TEMPORARY DIVERSION DIKE



CWO CONCRETE TRUCK
WASHOUT DETAIL
NTS

GENERAL NOTES:

1. ACTUAL SIZE TO BE DETERMINED IN FIELD. A MINIMUM OF 10' WIDE BY 10' LONG AND SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE. A MINIMUM OF 12" FREEBOARD SHALL BE INCLUDED.
2. THE CONCRETE WASHOUT SHALL NOT BE PLACED WITHIN 50' OF STORM DRAINS.
3. EXCESS AND SLUMP TEST SOLIDS SHALL BE PLACED ON PLASTIC LINER UNTIL HARDENED. CONTRACTOR MAY CONSIDER INSTALLING WIRE OR REBAR HOOD FOR LATER PICKUP REMOVAL.
4. INSPECTORS SHALL USE THE WASHOUT FACILITY OR PLASTIC FOR CLEANING OF THEIR TOOLS.

MAINTENANCE NOTES:

1. CHECK ALL CONCRETE WASHOUT FACILITIES DAILY TO DETERMINE IF THEY HAVE BEEN FILLED TO 75% CAPACITY. THE FACILITY SHALL BE CLEANED OUT OR CHANGED WHEN 75% FULL.
2. INSPECT LINERS DAILY TO ENSURE THAT LINERS ARE INTACT AND SIDEWALLS HAVE NOT BEEN DAMAGED BY CONSTRUCTION ACTIVITIES. LINERS SHALL BE REPLACED IF THERE ARE HOLES OR TEARS OBSERVED.
3. CONCRETE WASTE SHALL BE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN. THE HARDENED CONCRETE SHALL BE BROKEN UP AND DISPOSED OF OFFSITE PER APPLICABLE VA. DEQ RULES AND REGULATIONS. LIQUIDS SHALL NOT BE DISCHARGED DIRECTLY INTO WATERWAYS, STORM DRAINS, SWALES, OR DIRECTLY ONTO THE GROUND.
4. REMOVE LIQUIDS OR COVER STRUCTURE BEFORE PREDICTED STORMS TO PREVENT OVERFLOWS.
5. INSTALL A NEW PLASTIC LINER AFTER EVERY CLEANING.