

TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS		
SEED		
APPLICATION DATES	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/s&s.htm#pubs		

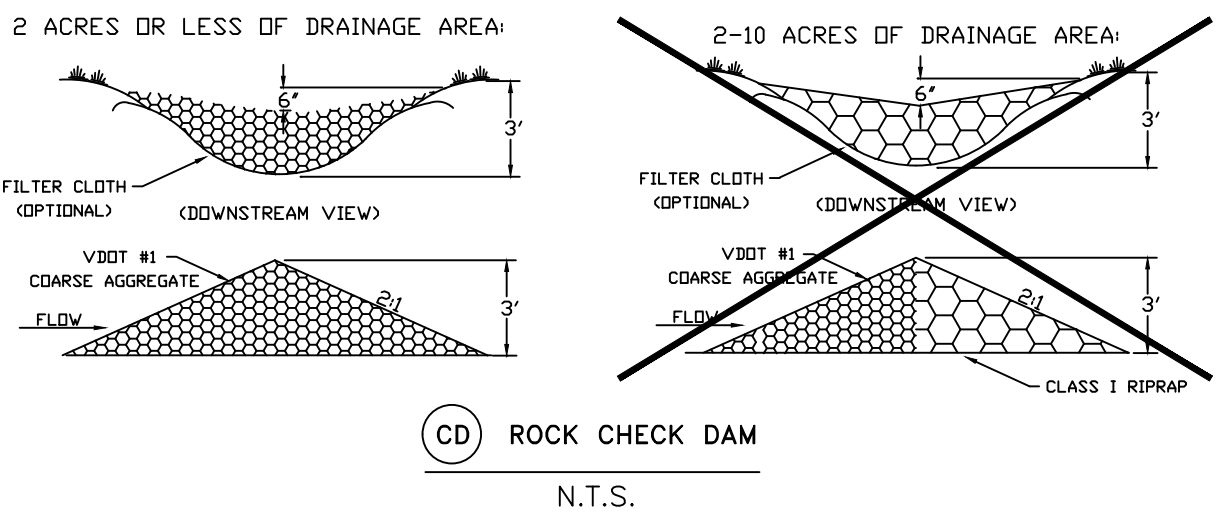
TS TEMPORARY SEEDING SPECIFICATIONS

TABLE 3.32-C (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA		
LAND USE	SEED ¹ 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 ³	TOTAL: 125 lbs. 125 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
General Slope (3:1 or less)	Tall Fescue ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ³	150 lbs. 2 lbs. 20 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 ³ Crownvetch ⁴	150 lbs. 2 lbs. 20 lbs. 20 lbs. TOTAL: 150 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 804-746-4884 or at http://auden.oses.vt.edu/html/Turfpublications/publications2.htm 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 Foxtail 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 Weeping Lovegrass is used, include in any slope or low maintenance mixture 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/s&s.htm#pubs		

PS PERMANENT SEEDING SPECIFICATIONS

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	1
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	1.5	1.5
June	0	0	1.5	1.5
Yearly Lbs. N/1000 sq ft	3	3	3	3

FERTILIZER SPECIFICATIONS AND RATES FOR MANAGEMENT



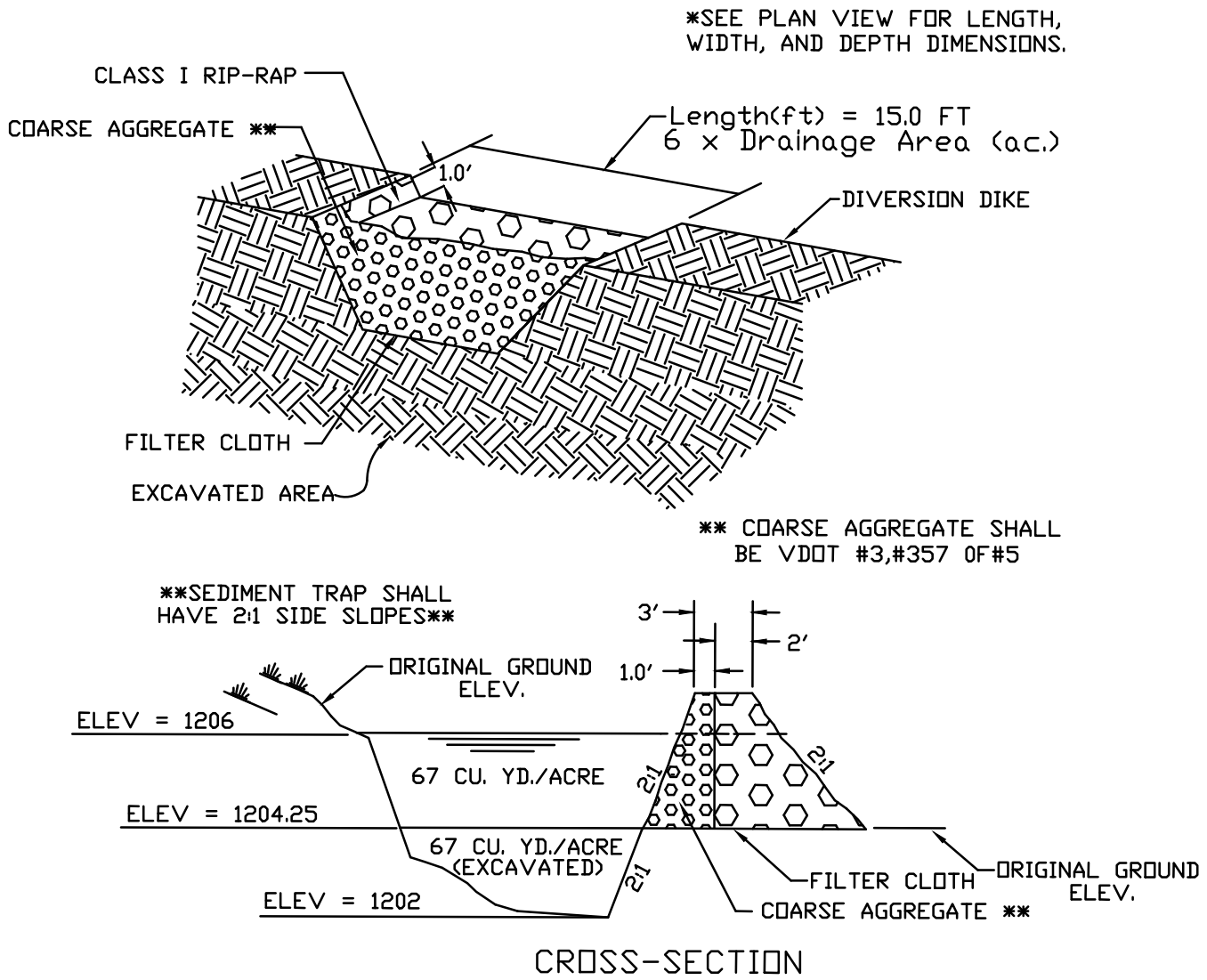
CD ROCK CHECK DAM
N.T.S.

SEDIMENT TRAP SUMMARY TABLE

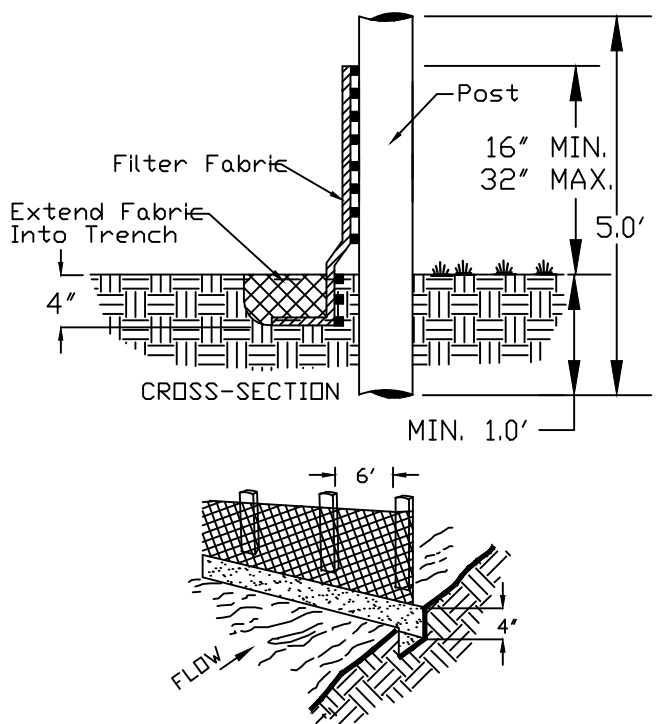
DRAINAGE AREA ID	ST-1
TOTAL DRAINAGE AREA SIZE	2.5 AC
BOTTOM/TOP LENGTH	55LF/71LF
BOTTOM/TOP WIDTH	40LF/56LF
DEPTH	4'
BERM HEIGHT	1'
WEIR LENGTH	15 LF
WEIR HEIGHT	1'
STORAGE REQUIRED (CY)	168 WET - 168 DRY
STORAGE PROVIDED (CY)	222 WET - 226 DRY

SEDIMENT TRAP #1 DETAIL

* SEE PLATE 313-1



ST TEMPORARY SEDIMENT TRAP #1 SPECIFICATIONS



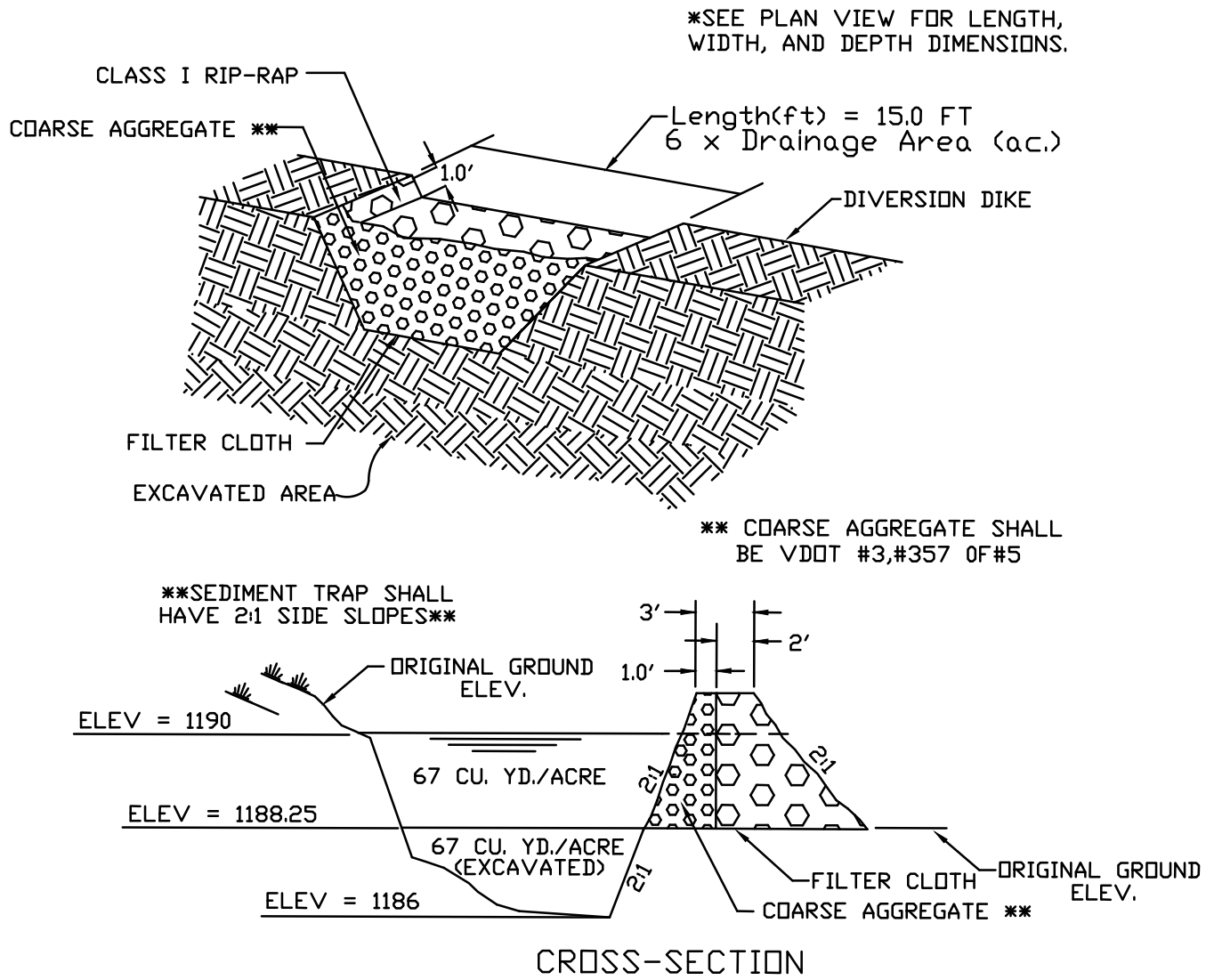
SF CONSTRUCTION OF A SILT FENCE
EROSION AND SEDIMENT CONTROL STANDARD - 3.05

SEDIMENT TRAP SUMMARY TABLE

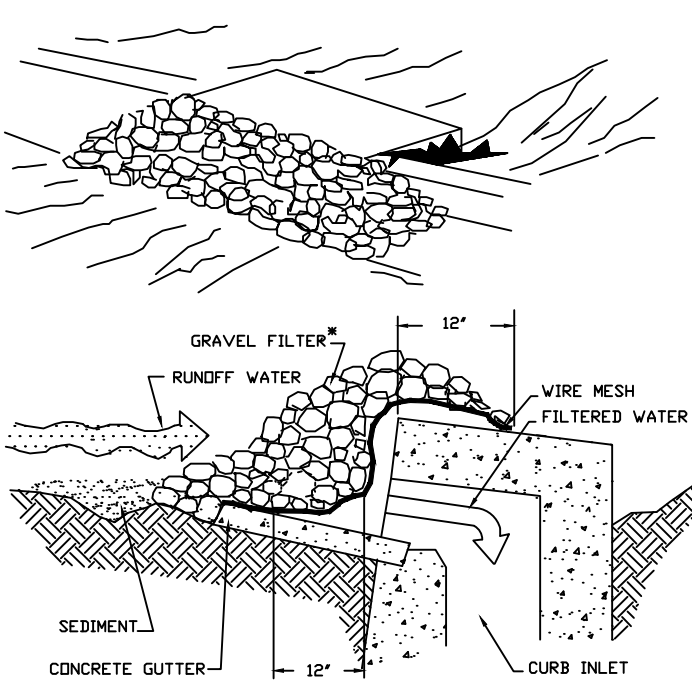
DRAINAGE AREA ID	ST-2
TOTAL DRAINAGE AREA SIZE	2.4 AC
BOTTOM/TOP LENGTH	55LF/71LF
BOTTOM/TOP WIDTH	35LF/51LF
DEPTH	4'
BERM HEIGHT	1'
WEIR LENGTH	15 LF
WEIR HEIGHT	1'
STORAGE REQUIRED (CY)	161 WET - 161 DRY
STORAGE PROVIDED (CY)	198 WET - 203 DRY

SEDIMENT TRAP #2 DETAIL

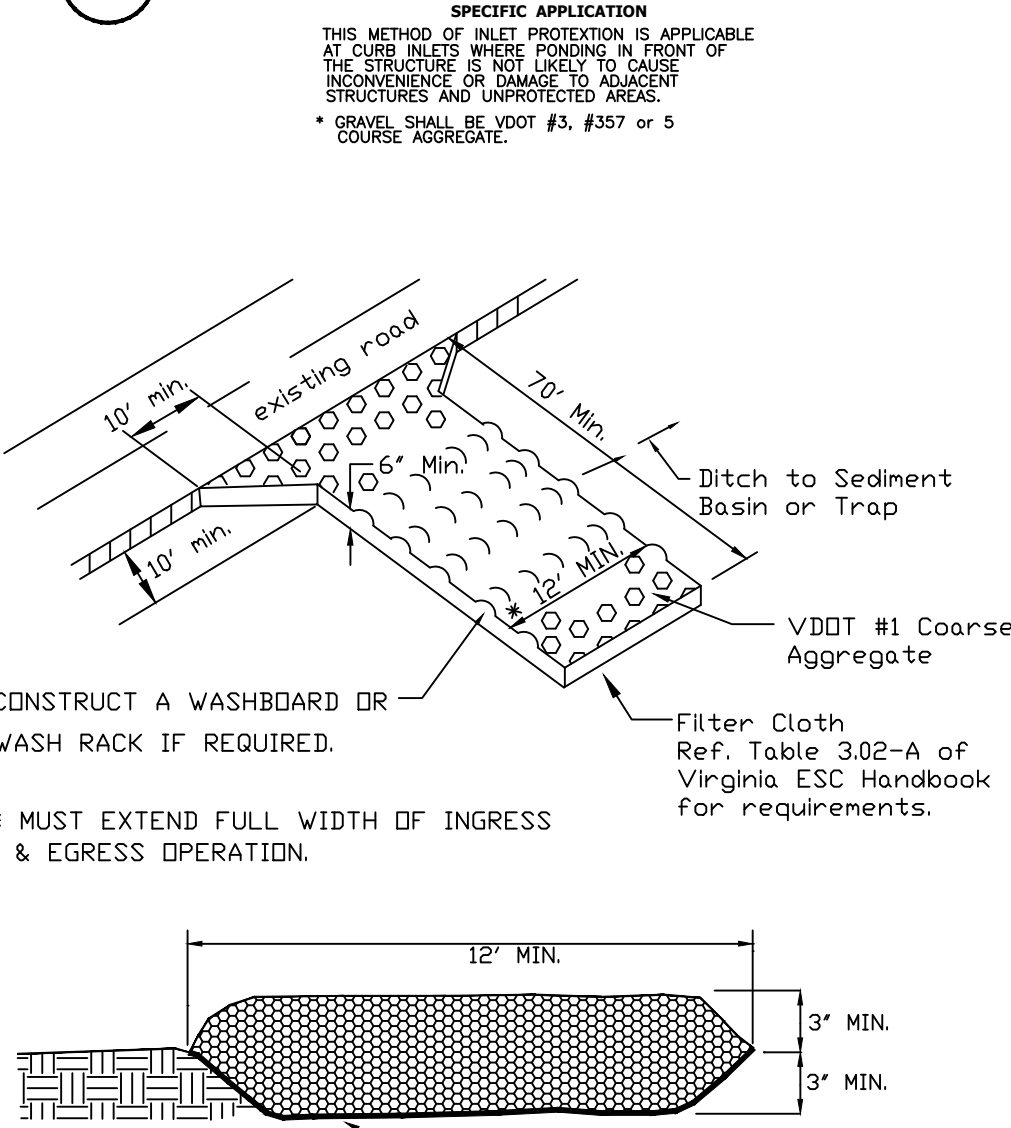
* SEE PLATE 313-1



ST TEMPORARY SEDIMENT TRAP #2 SPECIFICATIONS

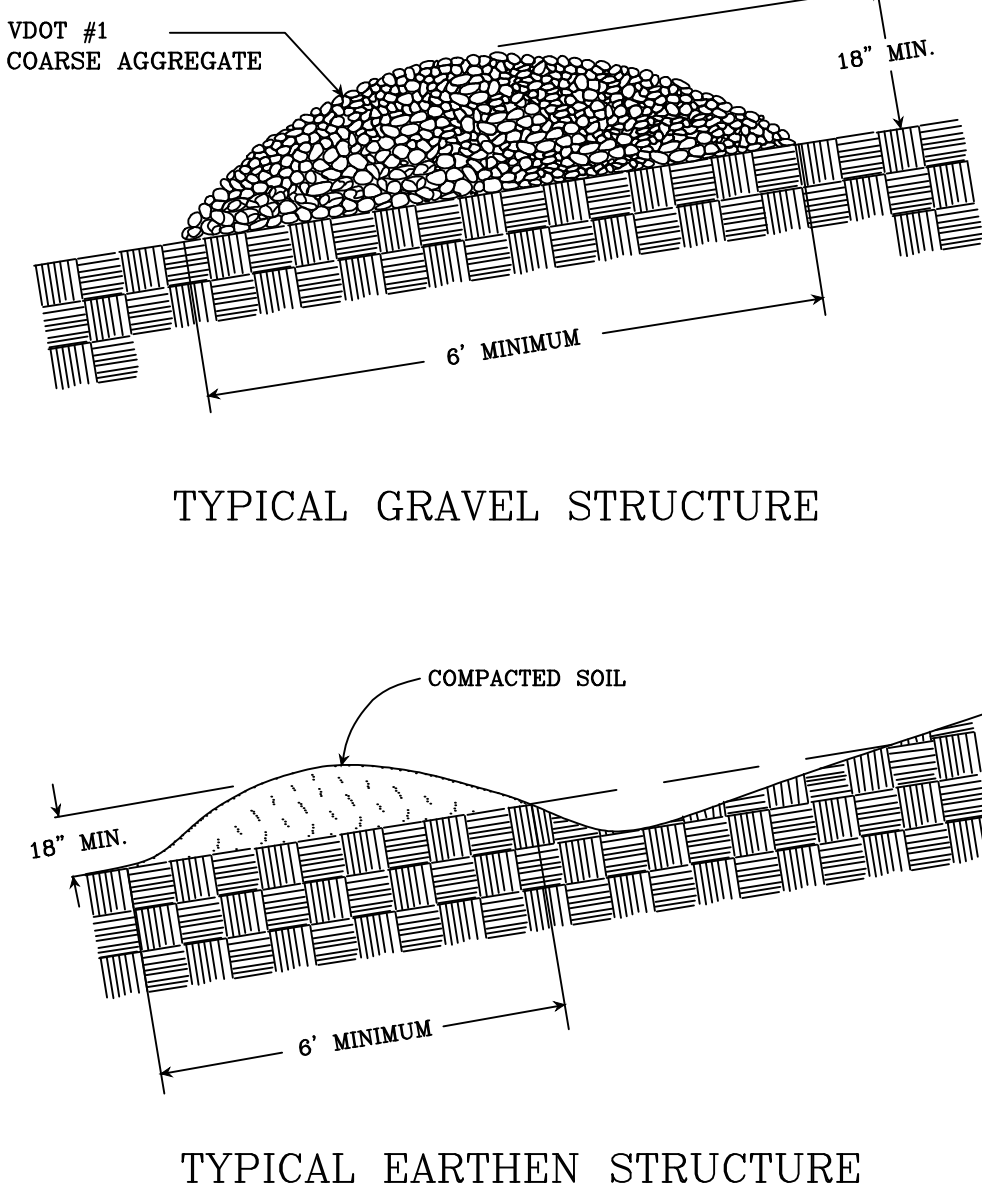


IP GRAVEL CURB INLET SEDIMENT FILTER



CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

TEMPORARY RIGHT-OF-WAY DIVERSIONS



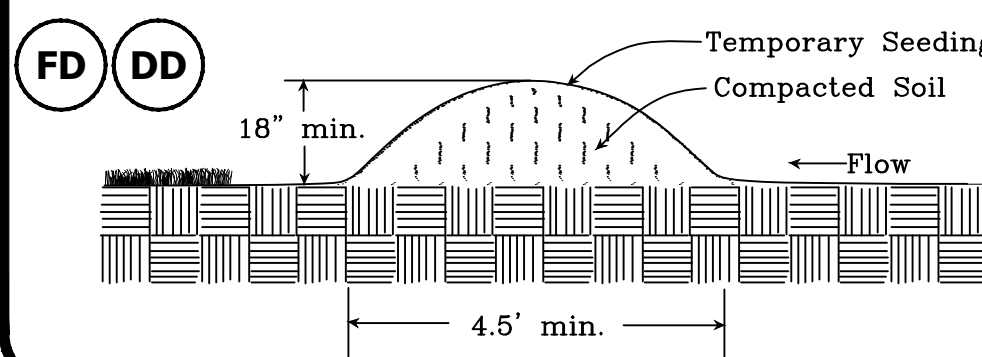
Source: Va. SWCC

EROSION-SILTATION CONTROL COST ESTIMATE

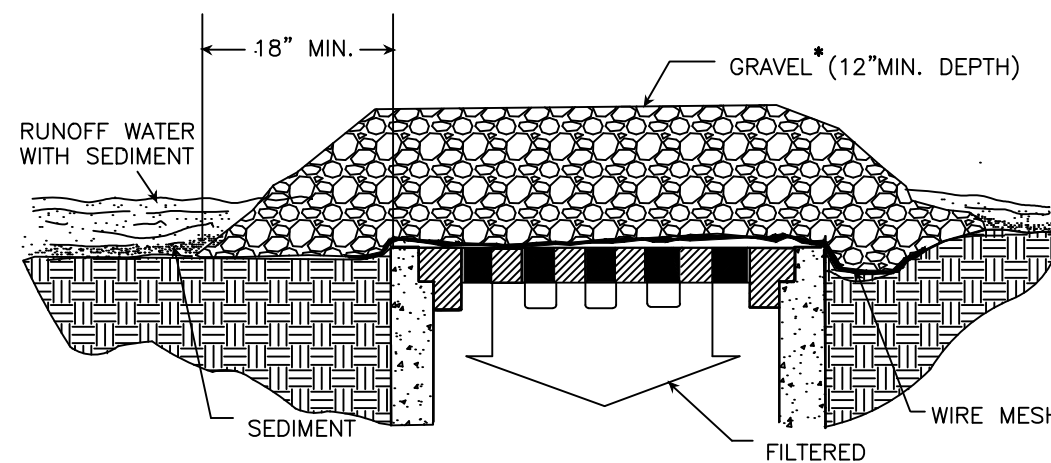
ITEM	QUANTITY	UNIT COST	TOTAL
CONSTRUCTION ENTRANCE	1 EA	\$1,200.00 per EA	\$1,200.00
SILT FENCE	1,000 LF	\$4.00 per LF	\$4,000.00
INLET PROTECTION	5 EA	\$150.00 per EA	\$750.00
TEMPORARY DIVERSION DIKE	430 LF	\$5.00 per LF	\$2,150.00
TEMPORARY FILL DIVERSION	520 LF	\$5.00 per LF	\$2,600.00
RIGHT-OF-WAY DIVERSION	45 LF	\$10.00 per LF	\$450.00
SEDIMENT TRAP	2 EA	\$1,500.00 per EA	\$3,000.00
CHECK DAM	2 EA	\$100.00 per EA	\$200.00
TEMPORARY SEEDING	315,000 SF	\$0.04 per SF	\$12,600.00
PERMANENT SEEDING	270,000 SF	\$0.05 per SF	\$13,500.00
BLANKET MATTING	17,100 SF	\$0.25 per SY	\$4,275.00
SUB-TOTAL			\$44,725.00
10% CONTINGENCY			\$4,473.00
ESTIMATED TOTAL =			\$49,198.00

THIS ESTIMATE IS FOR BONDING PURPOSES ONLY. ACTUAL QUANTITIES AND COSTS MAY VARY, BASED ON ACTUAL FIELD CONDITIONS AND CURRENT ECONOMIC CONDITIONS.

TEMPORARY DIVERSION DIKE



GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

Plate 3.11-1 SOURCE: VA. DSWC

PLATE: 3.07-2



BALZER & ASSOCIATES
PLANNERS / ARCHITECTS
ENGINEERS / SURVEYORS

Roanoke / Richmond
New River Valley / Staunton
Harrisonburg / Lynchburg
www.balzer.cc

1208 Corporate Circle
Roanoke, VA 24018
540.772.9580



RIVER OAKS SECTION 3

E.S.C. DETAILS

DRAWN BY KAM
DESIGNED BY CPB
CHECKED BY CPB
DATE 1/6/2021
SCALE N/A
REVISIONS
3/8/2021
3/30/2021

C7.4
PROJECT NO. 04200041.00