

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- forium) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lb/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi- forium)	50 - 100 (lb/acre)
May 1 - Aug. 31	German Millet	50 (lb/acre)
FERTILIZER & LIME		
<ul style="list-style-type: none"> 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 50 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 disk or by other means. 3. When applying Slowly Available Nitrogen, use rates available in <i>Erosion & Sediment Control Technical Bulletin</i> #4, 2000 Nutrient Management for Development Sites at http://www.vdot.state.va.us/technicalbulletins		

TS TEMPORARY SEEDING SPECIFICATIONS

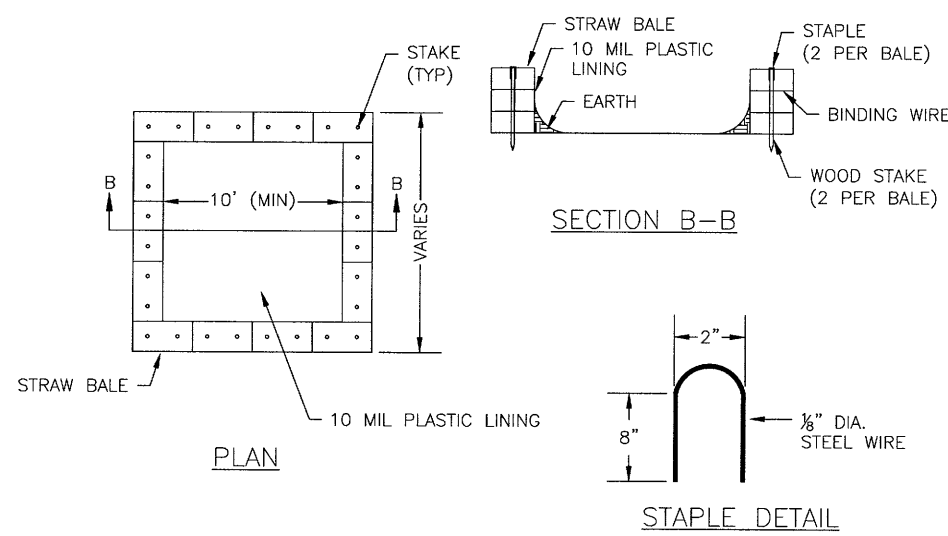
TABLE 3.32-C (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN MOUNTAIN AREA		
LAND USE	SPECIES	APPLICATION RATES
Minimum Core Plant (Commercial or Residential)	Tall Fescue Perennial Ryegrass Kentucky Bluegrass	50-100lb 0-10lb 0-10lb TOTAL: 200-250 lbs
High-Maintenance Lawn	Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia	TOTAL: 125 lbs
Seasonal Slope (3:1 or less)	Tall Fescue Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop	125 lbs 2 lbs 20 lbs TOTAL: 150 lbs
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop Crownvetch	125 lbs 2 lbs 20 lbs 20 lbs TOTAL: 150 lbs
NOTE: 1. When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCA. A current turfgrass variety list is available at the local County Extension office or through VCA at 804-765-8884 or at http://www.vdot.state.va.us/technicalbulletins/vegetation.htm 2. Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescue, thereby providing cover and erosion resistance for seedbed. 3. Use seasonal nurse crop in accordance with seeding dates as stated below: March, April, May 10th Annual Rye May 10th - August 10th Perennial Rye August 10th - September, October Annual Rye November, February Winter Rye 4. All nurse seed must be properly inoculated. If Fertilizer is used, increase to 50 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods. Increase to 50-60 lbs/acre.		
FERTILIZER & LIME		
<ul style="list-style-type: none"> Apply 10-20-10 fertilizer at a rate of 800 lbs. / acre (or 12 lbs. / 1,000 sq. ft.) Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 50 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 disk or by other means. 3. When applying Slowly Available Nitrogen, use rates available in <i>Erosion & Sediment Control Technical Bulletin</i> #4, 2000 Nutrient Management for Development Sites at http://www.vdot.state.va.us/technicalbulletins		

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	Type of Grass	
September	Tall Fescue Perennial Rye	1
October	Kentucky Bluegrass	1
Early November	Bermudagrass	0
April	Zoysigrass	0
May		0-0.5
June		0-0.5
July/August		0
Yearly lbs. N/1000 sq. ft.		2.5
Pounds of nitrogen per 1,000 sq. ft. if the fertilizer is more than 50 percent WIN		
Month	Type of Grass	
August 15	Tall Fescue Perennial Rye	1.5
October 1	Kentucky Bluegrass	1.5
April	Bermudagrass	0
May 15	Zoysigrass	0
June		0
Yearly lbs. N/1000 sq. ft.		3

FERTILIZER SPECIFICATIONS AND RATES FOR MANAGEMENT

City of Roanoke
Planning, Building, & Development
COMPREHENSIVE DEVELOPMENT PLAN
APPROVED
by Aaron Cypher 03/30/2021



CONCRETE TRUCK WASHOUT DETAIL

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 DCS RULES AND REGULATIONS. LIQUIDS SHALL NOT BE DISCHARGED DIRECTLY INTO WATERWAYS, STORM DRAINS, SHALES, 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.

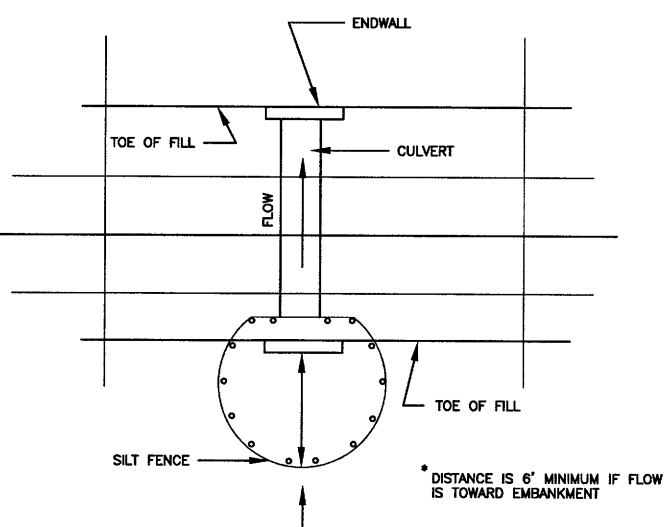
OUTLET PROTECTION STRUCTURE DATA:

OUTLET PROTECTION (PIPE 8)
EC-3, TYPE B RIP RAP
LENGTH OF APRON=12.0' (L_a)
WIDTH OF APRON=13.25' (W_o)
MIN. STONE SIZE=6"
MIN. DEPTH OF STONE=6"

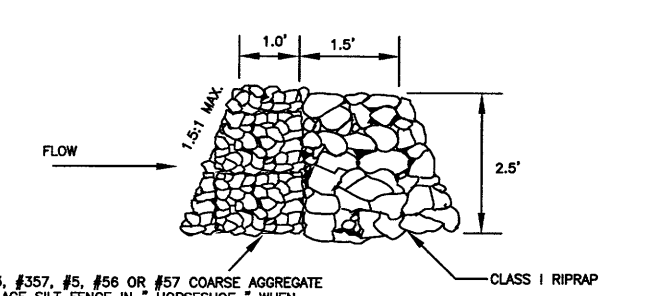
OP OUTLET PROTECTION

- NOTES:**
1. Apron lining may be rip-rap, grouted rip-rap, or concrete.
 2. L_a is the length of the rip-rap apron as calculated using plates 136d and 136e.
 3. L_a = 1.5 times the minimum stone diameter, but not less than 5'.

SILT FENCE CULVERT INLET PROTECTION



*** OPTIONAL STONE COMBINATION**



SOURCE: ADAPTED FROM VDOT Standard Sheets and Va. DSWC

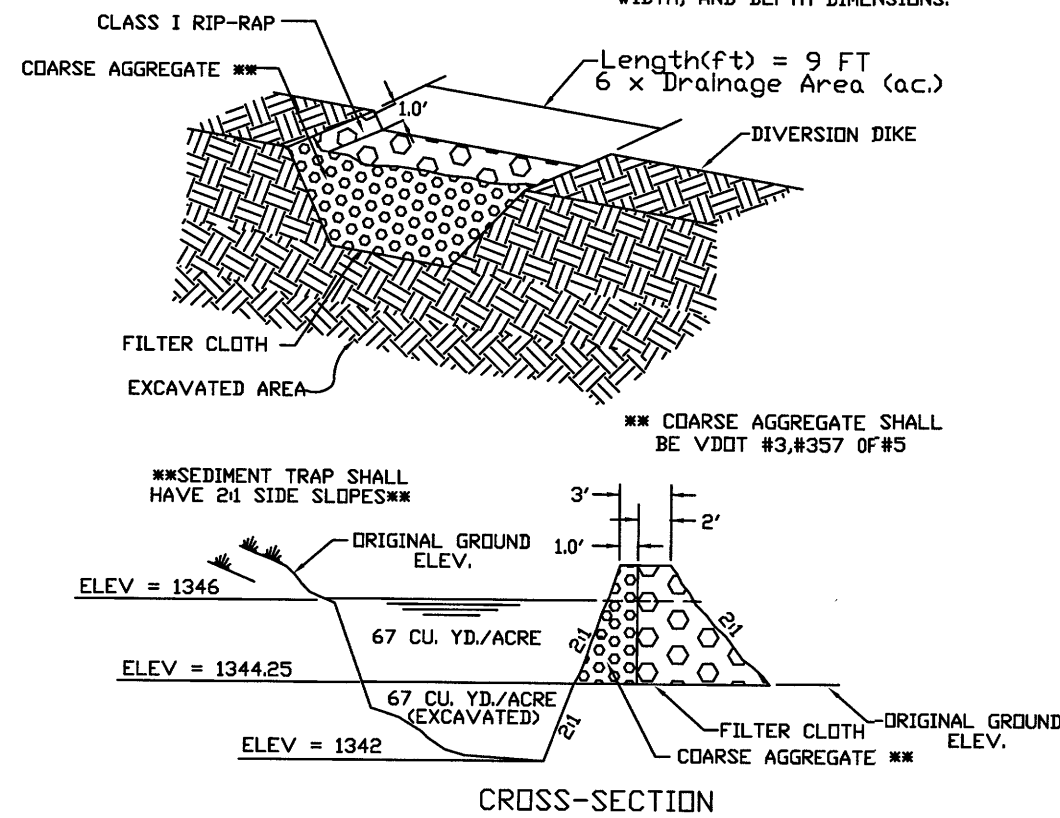
PLATE: 3.08-1

SEDIMENT TRAP SUMMARY TABLE

DRAINAGE AREA ID	ST-1
TOTAL DRAINAGE AREA SIZE	1.50 AC
BOTTOM/TOP LENGTH	90LF/106LF
BOTTOM/TOP WIDTH	16LF/32LF
DEPTH	4'
BERM HEIGHT	2.25'
WEIR LENGTH	9 LF
WEIR HEIGHT	1'
STORAGE REQUIRED (CY)	100 WET - 100 DRY
STORAGE PROVIDED (CY)	166 WET - 192 DRY

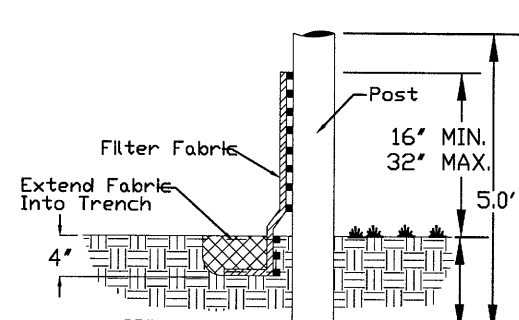
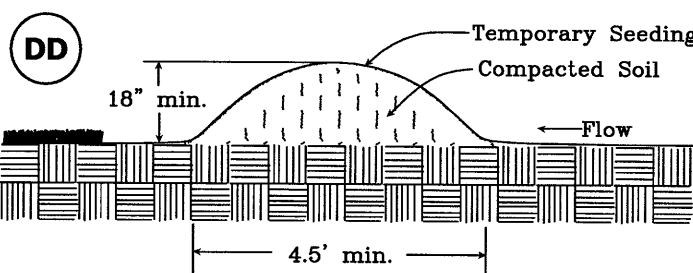
SEDIMENT TRAP #1 DETAIL

- SEE PLATE 3.13-1
SEE PLAN VIEW FOR LENGTH, WIDTH, AND DEPTH DIMENSIONS.



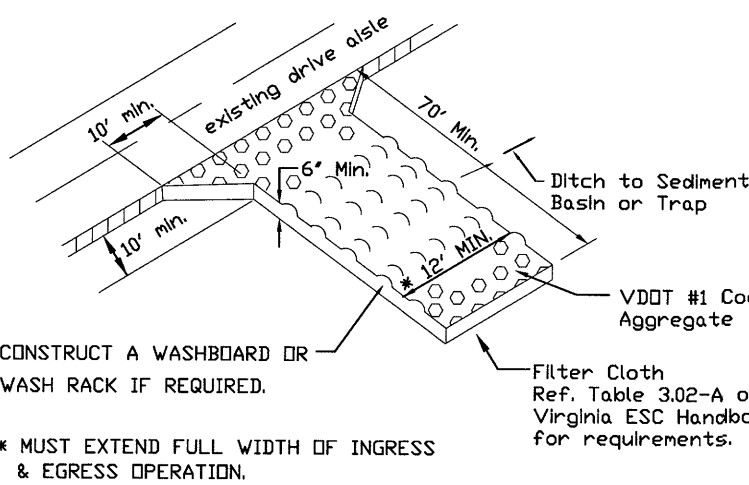
ST TEMPORARY SEDIMENT TRAP #1 SPECIFICATIONS

TEMPORARY DIVERSION DIKE

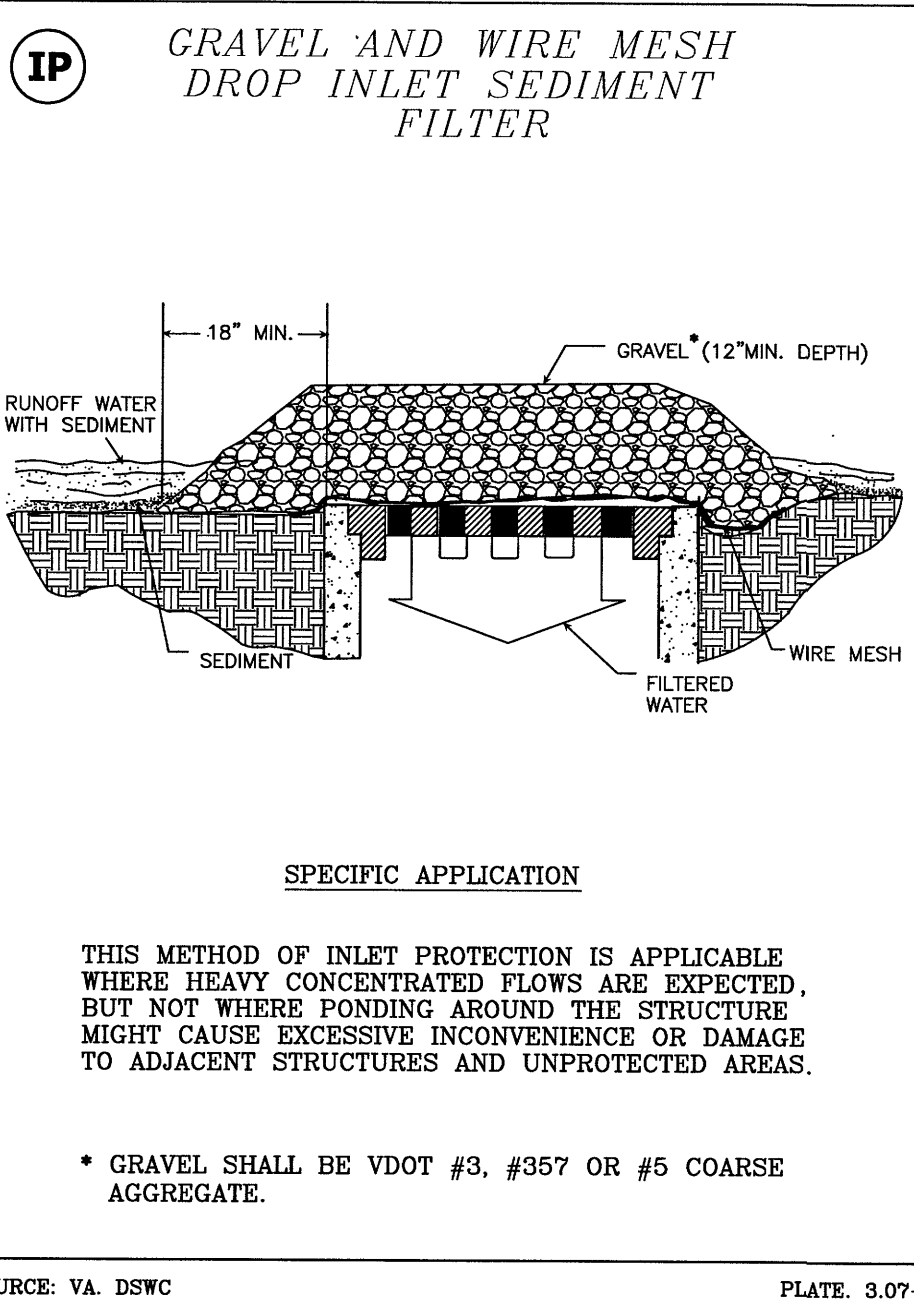


SF CONSTRUCTION OF A SILT FENCE

EROSION AND SEDIMENT CONTROL STANDARDS - 305



CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



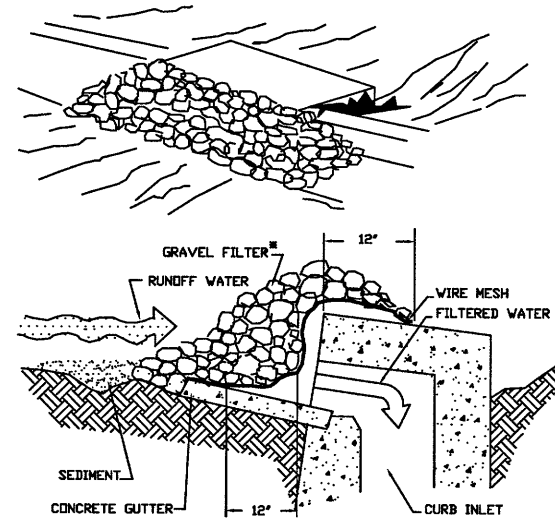
SPECIFIC APPLICATION

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.

SOURCE: VA. DSWC

PLATE: 3.07-2

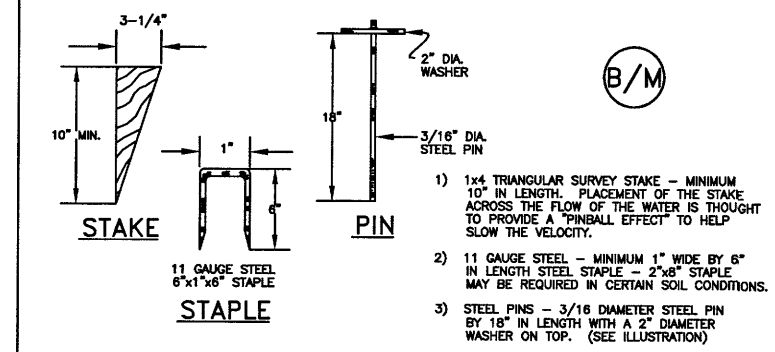


IP GRAVEL CURB INLET SEDIMENT FILTER

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.

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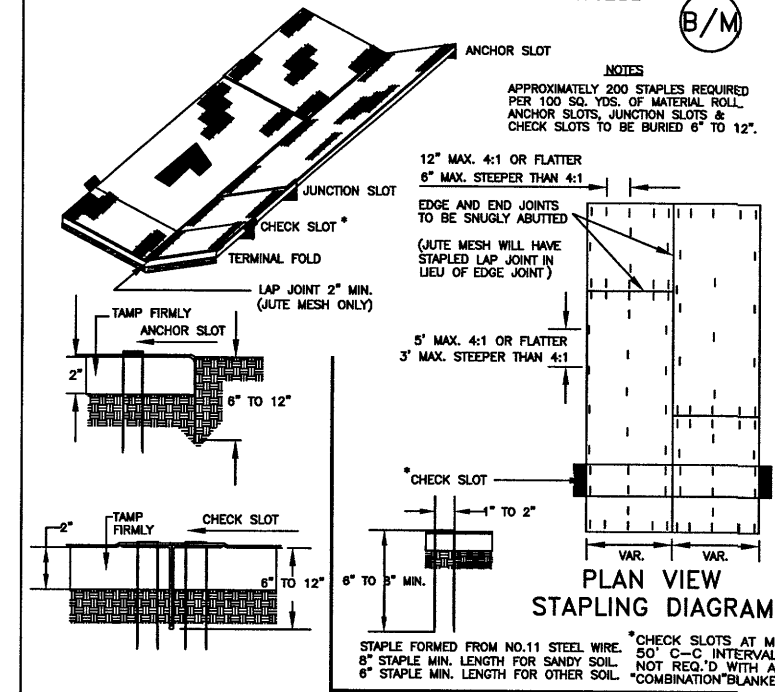
STAKES, STAPLES, & PINS FOR INSTALLATION OF TREATMENT - 2 SOIL STABILIZATION MATTING



SOURCE: PRODUCT LITERATURE FROM GREENTRAK, INC.

PLATE: 3.36-3

TYPICAL TREATMENT - 1 (SOIL STABILIZATION BLANKET) INSTALLATION CRITERIA



SOURCE: VDOT ROAD AND BRIDGE STANDARDS

PLATE: 3.36-2

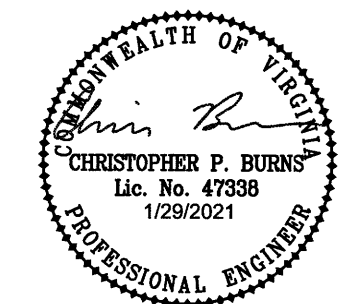
(B/M) BLANKET MATTING



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NEW HOPE CHRISTIAN CHURCH
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E.S.C. DETAILS

CITY OF ROANOKE, VIRGINIA

DRAWN BY: KAM
DESIGNED BY: BTC
CHECKED BY: BTC
DATE: 11/17/2020
SCALE: N/A
REVISIONS:
1/6/2021
1/29/2021

C12
PROJECT NO. 04200027.00