SILT FENCE CULVERT INLET **PROTECTION** * DISTANCE IS 6" MINIMUM IF FLOW IS TOWARD EMBANKMENT OPTIONAL STONE COMBINATION ** VDOT #3, #357 OR #5 COARSE AGGRECATE
TO REPLACE SILT FENCE IN " HORSESHOE " WHEN
HIGH VELOCITY OF FLOW IS EXPECTED Source: Adapted from VDOT Standard Plate 3.08-1 Sheets and Va. DSWC

III - 49

PIPE OUTLET CONDITIONS PIPE OUTLET TO FLAT AREA WITH NO DEFINED PLAN VIEW PIPE OUTLET TO WELL DEFINED CHANNEL NOTES: 1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.

2. LA IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.

3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES. Source: Va. DSWC Plate 3.18-1

III - 157

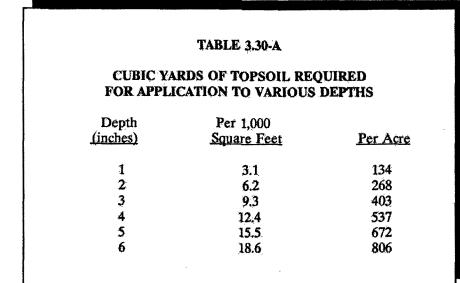
3.18

Issued 02/15/2019

seed germination. Special consideration should be given to the types of equipment used to place topsoil in areas to receive fine turf. Avoid unnecessary compaction by heavy machinery whenever possible. In areas which are not going to be mowed, the surface should be left rough in accordance with SURFACE ROUGHENING (Std. & Spec. 3.29).

Soil Sterilants

No sod or seed shall be placed on soil which has been treated with soil sterilants until sufficient time has elapsed to permit dissipation of toxic materials.



Source: Va. DSWC

III - 283

III - 25

Barriers for Sediment Control, Sherwood and Wyant

Plate 3.05-2

TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES

TABLE 3.31-C

	SEEDING RATE		NORTH ^a			SOUTH ^b			DY A NITT
SPECIES	Acre	1000 ft ²	3/1 to 4/30	5/1 to 8/15	8/15 to 11/1	2/15 to 4/30	5/1 to 9/1	9/1 to 11/15	PLANT CHARACTERISTICS
OATS (Avena sativa)	3 bu. (up to 100 lbs., not less than 50 lbs.)	2 lbs.	х	-		Х	*	_	Use spring varieties (e.g., Noble).
RYE ^d (Secale cereale)	2 bu. (up to 110 lbs., not less than 50 lbs.)	2.5 lbs.	х	-	Х	х	-	Х	Use for late fall seedings, winter cover. Tolerates cold and low moisture.
GERMAN MILLET (Setaria italica)	50 lbs.	approx. 1 lb.	-	х	•	*	X	_	Warm-season annual. Dies at first frost. May be added to summer mixes.
ANNUAL RYEGRASS ^c (Lolium multi-florum)	60 lbs.	11/2 lbs.	х	.=	х	х	•	Х	May be added in mixes. Will mow out of most stands.
WEEPING LOVEGRASS (Eragrostis curvula)	15 lbs.	5½ ozs.	-	x		•	х	•	Warm-season perennial. May bunch. Tolerates hot, dry slopes and acid, infertile soils. May be added to mixes.
KOREAN LESPEDEZA ^c (Lespedeza stipulacea)	25 lbs.	approx. 1½ lbs.	х	х	*	х	х	-	Warm season annual legume. Tolerates acid soils. May be added to mixes.

Northern Piedmont and Mountain region. See Plates 3.22-1 and 3.22-2.

b Southern Piedmont and Coastal Plain.

May be used as a cover crop with spring seeding.

d May be used as a cover crop with fall seeding.

X May be planted between these dates.

May not be planted between these dates.

3.32 **TABLE 3.32-D** SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA Total Lbs. Per Acre Minimum Care Lawn 175-200 lbs. - Commercial or Residential 95-100% - Kentucky 31 or Turf-Type Tall Fescue 0-5% - Improved Perennial Ryegrass 0-5% - Kentucky Bluegrass High-Maintenance Lawn 200-250 lbs. 100% - Kentucky 31 or Turf-Type Tall Fescue General Slope (3:1 or less) 128 lbs. 2 lbs. - Kentucky 31 Fescue - Red Top Grass 20 lbs. 150 lbs. - Seasonal Nurse Crop * Low-Maintenance Slope (Steeper than 3:1) 108 lbs. - Kentucky 31 Fescue 2 lbs. - Red Top Grass 20 lbs. - Seasonal Nurse Crop * - Crownvetch ** 20 lbs. 150 lbs. * Use seasonal nurse crop in accordance with seeding dates as stated below: ** Substitute Sericea lespedeza for Crownvetch east of Farmville, Va. (May through September use hulled Sericea, all other periods, use unhulled Sericea). If Flatpea is used in lieu of Crownvetch, increase rate to 30 lbs./acre. All legume seed must be properly inoculated. Weeping Lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods; add 10-20 lbs./acre in

Source: Va. DSWC

3.35 **TABLE 3.35-A** ORGANIC MULCH MATERIALS AND APPLICATION RATES RATES: NOTES: **MULCHES:** Per Acre | Per 1000 sq. ft. Straw or Hay 70 - 90 lbs. Free from weeds and coarse 1½ - 2 tons matter. Must be anchored. (Minimum 2 Spread with mulch blower tons for or by hand. winter cover) Fiber Mulch Do not use as mulch for Minimum winter cover or during hot, 1500 lbs. dry periods.* Apply as 4 - 6 tons | 185 - 275 lbs. | Cut or shredded in 4-6" Corn Stalks lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by 185 - 275 lbs. Wood Chips 4 - 6 tons Free of coarse matter. Airdried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand. 1-2 cu. yds. Free of coarse matter. Air-Bark Chips 50 - 70 cu. dried. Do not use in fine turf areas. Apply with Shredded mulch blower, chip handler, Bark or by hand. * When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

Source: Adapted from Ludlow Products Brochure

Plate 3.36-1

3.36

4

ON SHALLOW SLOPES, STRIPS OF NETTING PROTECTIVE COVERINGS MAY BE APPLIED ACROSS THE SLOPE.

ON STEEP SLOPES, APPLY PROTECTIVE COVERING PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY.

III - 361

AS-BuiLT

TYPICAL ORIENTATION OF

(SOIL STABILIZATION BLANKET)

TREATMENT - 1

III - 303

III - 353



WESTERN VIRGINIA V 601 South Jefferson

VIRGINIA WATER AUTHORITY	DES: PJM	SCALE: N/A
South Jefferson Street, Suite 300	DRAWN: JES	HORIZ: N/A
Roanoke, Virginia 24011	CHECK: GWF	VERT: N/A
	DATE: 05/24/18	

SUMMIT VIEW BUSINESS PARK UTILITY IMPROVEMENTS PHASE 1

EROSION & SEDIMENT CONTROL **DETAILS**

REV DATE DESCRIPTION DRAWING SHEET C2.02