

ROADSIDE DEVELOPMENT

SEED REQUIREMENTS

			REGULAR SEED MIXES																				LEGUME SEED MIXES																			
Min. cure seed	Min. Germination %	Weed seed not to exceed %		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	T	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO					
98	85	0.50	KY. 31 FESCUE ①	83	73	68	73	73	70	42					33	48	53	40					33	23	33	48	50	48	53	23				63	55	55	48					
92	85	1.00	RED TOP	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
85	82	0.50	KY. BLUE GRASS ②												50	50	48	45			28	38	28																			
98	85	0.50	CREEPING RED FESCUE ⑦												10	33	25	25	23																							
98	85	0.50	BERMUDA *												50	25	15	30											25													
98	85	0.50	FOXTAIL MILLET ③		10			9						10				9			10					15	15					4			4							
97	90	0.50	ANNUAL RYEGRASS			15								10				15			35															15						
98	85	0.50	CEPHEAL RYE ④				10		30								10		10		50							15					8			8						
98	85	0.50	WEeping LOVEGRASS					10	4					5				4			50				10			10				4			4							
88	85	1.00	ORCHARDGRASS (Unhulled) ⑤																	45	45	45								63	55	55										
98	75	0.50	SERICEA LESPEDEZA ***																				10	50	50				20													
98	75	0.50	CROWN VETCH ** ⑥																				20			20	20	20	15	20	20	20	20	20	20	20						
99	75	0.50	FLAT PEA																																							
POUNDS PER ACRE				85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85						

- * Fall - Unhulled
 * Spring - Hulled
 ** Scarified and Inoculated
 *** Spring - Hulled - Scarified and Inoculated
 Fall - Unhulled - Inoculated
- ① Shall be grown in Virginia, Kentucky, Missouri, Tennessee, Alabama, Arkansas, North Carolina, South Carolina, Kansas
 ② Shall be South Dakota or Kentucky grown, South Dakota strain or the varieties Flying, Adelaide or Kenbue
 ③ Varieties - Common, German, or Hungarian Millet may be substituted
 ④ Varieties - Abruzzi or Balbo ⑤ Virginia origin or Potomac variety
 ⑥ Varieties - Pennings, Emerald, Chemung, Substitution allowed - Flat Pea (Lathyrus sylvestris) ⑦ Variety - Pennlawn

All seeds shall conform to the requirements specified herein and all other contract documents. Hard seeds in legumes shall not exceed 35%
 In Crownvetch and Sericea Lespedeza or 50% in Flat Pea.

AREA 1 - SCHEDULE Bristol, Salem, Staunton, Culpeper, Northern Virginia

DATES From To	SEEDING LOCATIONS	SEED MIXTURE	FERTILIZER TYPE	FERTILIZER TONS	MULCH TYPE	REMARKS
Feb. 1 - May 15	a - Steeper than 4:1	C	I	.75	2 .50	I or II
	b - 4:1 and Flatter	C	I	.75	2 .50	I or II
	c - Lawn, utility strips, curb and gutter	C	I	.75	2 .50	I or II
May 16 - July 31	a - Steeper than 4:1	B	I	.40	2 .266	I
	b - 4:1 and Flatter	B	I	.40	2 .266	I
	c - Lawn, utility strips, curb and gutter	B	I	.40	2 .266	I
August 1 - Sept. 15	a - Steeper than 4:1	C	I	.75	2 .50	I or II
	b - 4:1 and Flatter	C	I	.75	2 .50	I or II
	c - Lawn, utility strips, curb and gutter	C	I	.75	2 .50	I or II
Sept. 16 - Nov. 15	a - Steeper than 4:1	C	I	.75	2 .50	I
	b - 4:1 and Flatter	C	I	.75	2 .50	I
	c - Lawn, utility strips, curb and gutter	C	I	.75	2 .50	I
Nov. 16 - Jan. 31	a - Steeper than 4:1	C or T	I	.25	2 .165	I
	b - 4:1 and Flatter	C or T	I	.25	2 .165	I
	c - Lawn, utility strips, curb and gutter	C or T	I	.25	2 .165	I

AREA 2 - SCHEDULE Lynchburg, Richmond

DATES From To	SEEDING LOCATIONS	SEED MIXTURE	FERTILIZER TYPE	FERTILIZER TONS	MULCH TYPE	REMARKS
Feb. 1 - April 30	a - Steeper than 4:1	I	.75	2 .50	I or II	Supplemental seeding, etc. as directed by the Engineer.
	b - 4:1 and Flatter	I	.75	2 .50	I or II	
	c - Lawn, utility strips, curb and gutter	I	.75	2 .50	I or II	
May 1 - July 31	a - Steeper than 4:1	I	.40	2 .266	I	Apply additional 700 lbs. Type 1, or 466 lbs. Type 2 Fertilizer in Sept. - Oct. Supplemental seeding, etc. as directed by the Engr.
	b - 4:1 and Flatter	I	.40	2 .266	I	
	c - Lawn, utility strips, curb and gutter	I	.40	2 .266	I	
August 1 - Sept. 30	a - Steeper than 4:1	I	.75	2 .50	I or II	Supplemental seeding, etc. as directed by the Engineer.
	b - 4:1 and Flatter	I	.75	2 .50	I or II	
	c - Lawn, utility strips, curb and gutter	I	.75	2 .50	I or II	
Oct. 1 - Nov. 15	a - Steeper than 4:1	I	.75	2 .50	I	Supplemental seeding, etc. as directed by the Engineer.
	b - 4:1 and Flatter	I	.75	2 .50	I	
	c - Lawn, utility strips, curb and gutter	I	.75	2 .50	I	
Nov. 16 - Jan. 31	a - Steeper than 4:1	I	.25	2 .165	I	Use three tons mulch per acre. Overseed with Mix plus 1000 lbs. Type 1 or plus 670 lbs. Type 2 fertilizer in March or April unless otherwise directed by the Engr.
	b - 4:1 and Flatter	I	.25	2 .165	I	
	c - Lawn, utility strips, curb and gutter	I	.25	2 .165	I	

AREA 3 - SCHEDULE Fredericksburg, Suffolk

DATES From To	SEEDING LOCATIONS	SEED MIXTURE	FERTILIZER TYPE	FERTILIZER TONS	MULCH TYPE	REMARKS
Feb. 1 - April 15	a - Steeper than 4:1	I	.75	2 .50	I or II	Supplemental seeding, etc. as directed by the Engineer.
	b - 4:1 and Flatter	I	.75	2 .50	I or II	
	c - Lawn, utility strips, curb and gutter	I	.75	2 .50	I or II	
April 16 - August 15	a - Steeper than 4:1	I	.40	2 .266	I	Apply additional 700 lbs. Type 1, or 466 lbs. Type 2 Fertilizer in Sept. - Oct. Supplemental seeding, etc. as directed by the Engr.
	b - 4:1 and Flatter	I	.40	2 .266	I	
	c - Lawn, utility strips, curb and gutter	I	.40	2 .266	I	
August 16 - Oct. 15	a - Steeper than 4:1	I	.75	2 .50	I or II	Supplemental seeding, etc. as directed by the Engineer.
	b - 4:1 and Flatter	I	.75	2 .50	I or II	
	c - Lawn, utility strips, curb and gutter	I	.75	2 .50	I or II	
Oct. 16 - Nov. 15	a - Steeper than 4:1	I	.75	2 .50	I	Supplemental seeding, etc. as directed by the Engineer.
	b - 4:1 and Flatter	I	.75	2 .50	I	
	c - Lawn, utility strips, curb and gutter	I	.75	2 .50	I	
Nov. 16 - Jan. 31	a - Steeper than 4:1	I	.25	2 .165	I	Use three tons mulch per acre. Overseed with Mix plus 1000 lbs. Type 1 or plus 670 lbs. Type 2 fertilizer in March or April unless otherwise directed by the Engr.
	b - 4:1 and Flatter	I	.25	2 .165	I	
	c - Lawn, utility strips, curb and gutter	I	.25	2 .165	I	

ROADSIDE DEVELOPMENT AND EROSION AND SILTATION CONTROL SUMMARY

PROJECT NUMBERS	TOPSOIL 2" CLASS A B	REGULAR SEEDING	OVER SEEDING	LEGUME SEEDING	LEGUME OVER SEEDING	FERT. 10 - 20 - 10	LIME 2 TONS PER ACRE	UREA FORM.	FERT. 15 - 30 - 15
VDOT PARTICIPATION	3.2	438	137	—	—	4.6	12.2	—	—
OWNER PARTICIPATION	6.4	877	276	—	—	10.6	24.4	—	—

VALLEYPOINTE - PHASE I

FERTILIZER

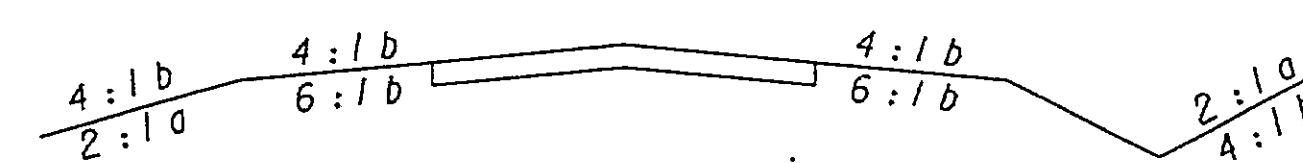
- Type I - 10 20 10 A - 15
 2 - 15 30 15
 3 - 38 0 0 C - 15 15 15

MULCH

- Type I - Straw or Hay
 II - Wood cellulose Fiber

- AREA 1 - Bristol, Salem, Staunton, Culpeper, Northern Virginia
 2 - Lynchburg, Richmond
 3 - Suffolk, Fredericksburg

SELECTION OF SEED LOCATIONS



NOTES

- Mulch Type I Straw or Hay
 When threshed Orchardgrass Straw is used for mulch, an amount sufficient to shade 80 per cent of the area shall be used.
 The cost of mulch is to be included in regular seeding, but is not to be included in the cost for overseeding.

Approximately 10.53 acres will be disturbed on this project and will require the establishment of grasses and / or legumes. (Quantities of mulch, seed, fertilizer, urea formaldehyde and lime are for estimating purposes only).

NOTES FOR FIELD USE ONLY

Supplemental seeding consists of overseeding or regular seeding as determined by the Engineer.

The Engineer will require the Contractor to perform supplemental seeding when less than a 90 percent uniform stand of the permanent grass specified in the mixture is obtained. (Annual species such as rye and millet are temporary seeding and require supplemental seeding).

Overseeding rates shall be 50% of the seed mixture specified and fertilizer rates shall be 33% of the rates specified.

Ky. 31 Fescue or Creeping Red Fescue shall not be used in Loudoun, Fauquier, Rappahannock, and Page Counties. Orchard Grass mixture shall be used for these areas.

NOTES APPLY TO AREAS 1, 2, & 3 SCHEDULE

Legume seed mixes (AA through OO) shall not be used on shoulders and other locations to be mowed.

All rates are per acre.

From Nov. 16 until January 31, Mixture T is to be used only on areas that are to be regraded or later disturbed.

When seeding areas to be regraded or later disturbed from Feb. 1 - Nov. 15, use 50% of the recommended rates of fertilizer, lime and full amount of seed and mulch required for "Regular Seeding."

Spring and Fall defined for the purpose of determining whether hulled or unhulled Bermuda and Sericea Lespedeza seed is required:

Area 1	Area 2	Area 3
Spring - May 16 - Sept. 15	Spring - May 1 - Sept. 30	Spring - Apr. 16 - Oct. 15
Fall - Sept. 16 - May 15	Fall - Oct. 1 - Apr. 30	Fall - Oct. 16 - Apr. 15

Type I mulch to be used exclusively on newly seeded areas adjacent to all waterways, wetlands, swamps, or any area in which drainage flows toward areas under the jurisdiction of the regulatory agencies.

Type I mulch shall be tacked with wood Cellulose Fiber mulch at the rate of 750 lbs. per acre.

Revised Oct. 87

2B

RC-2985