

Purpose To stabilize the soil; to reduce damages from sediment and runoff to down-

stream areas; improve wildlife habitat; enhance natural beauty

Conditions Where Practice Applies

On graded or cleared areas which are subject to erosion for a year or less permanent structures are to be installed or extensive grading of the area will be done prior to establishment of permanent vegetation.

SPECIFICATIONS

- A. Prior to seeding, install needed erosion control practices such as diversions, grade stabilization structures, berms, dikes, level spreaders, grassed waterways, and sediment basins.
- B. Final grading and shaping has usually not been completed for temporary

For temporary seedings, fertilizer shall be applied at the rate of 600 lbs/ac. or 15 lbs/1000 sq. ft., using 10-20-10 or equivalent. Soils which are known to be highly acid should be limed.

III. Seedbed Preparation

 $_{\rm s}$ When the area to be seeded has been recently loosened to the extent that an adequate seedbed exists, no additional treatment is required.

However, when the area to be seeded is packed, crusted, and hard, the top layer of soil shall be loosened by discing, raking or other acceptable means before seeding.

- A. Select a mixture from Table 50-1.
- B. Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (clurry includes seed and fertilizer).

water at

....

When seedings are made on critical sites or adverse soil conditions, other than optimum seeding dates, mulch material will be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soils and site conditions will not need to be mulched.

A. Materials and Amounts

1. Straw - Material shall be unrotted small grain straw applied at the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds per 1,000 sq. ft. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited nexious weeds which are: Canada thistle, Johnsongrass and quackgrass.

Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 sq. ft. section and place 70-90 lbs. of mulch in each section..

- 2. Wood-fiber or paper-fiber mulch at the rate of 1,500 pounds per acre or 35 pounds per 1,000 sq. ft. may be applied by hydroseeding. Use is limited to <3% and <150' length of slope and during optimum seeding periods in spring and fall.
- 3. Mulch nettings such as jute or excelsior blanket may be used Staple to surface in waterways and on steep slopes. Lighter materials of paper, plastic and cotton mulch nettings may be used where erosion hazard is not severe. If area is to be moved do not use metal staples.
- 4. Wood chips at the rate of approximately 6 tons per acre or 275 lbs. per 1,000 sq. ft. may be used when available and when
- B. Mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon size of area, erosion hasard, the contour wherever possible, except "tracking" should be done up and down the slope with 1-1/2 inch cleat marks running across the
- Peg and Twine Drive 8 to 10-inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross within a square pattern. Secure twine around each per with two or more round turns
- Nulch Nettings Staple lightweight biodegradable paper, plastic or cotton mettings over the mulch according to manufacturer's recommendations. Wetting is usually available in rolls 4 feet
- Mulch Anchoring Tool (not a disc) A tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of soil. This practice affords maximum erosien control but is limited to flatter slopes where equipment can operate safely Tracking - primarily used on steeper than 3:1 cut and fill slopes to cut the mulch into the soil with cleated bulldozer

FOR GOIL EROSION AND SEDIMENT

- Liquid Mulch Binders
 Applications of liquid binders should be heavier at edges where wind catches mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance. Caution should be used with asphalt in residential and similar areas
- a. Cutback asphalt rapid curing (RC-70, RC-250, and RC-800) or medium curing (250 or MC-800). Apply 5 gallons per 1,000 sq. ft. or gallons per acre on flat areas, and on slopes less than theet high. On slopes 8 feet or more high, use 8 gallons per 1,000 sq. ft. or 348 gallons per
- b. Emulsified asphalt (SS-1, CSS-1, CMS-2, MS-2, MS-2, MS-1, NS-2, CMS-1, and CMS-2). Apply 5 gallons per 1,000 sq. ft. or 218 gallons per acre on flat areas and on slopes less than 8 feet high. On slopes 8 ft. or more high, use 8 gallons per 1,000 sq. ft. or 348 gallons per acre.
- All asphalt designations are from the Asphalt Institute
- Synthetic binders Synthetic binders such as Curasol, DCA-70 Petroset and Terra Tack may be used at rates recommended by the manufacturer to anchor mulch material.
- Note: All names given above are registered trade names. This does not constitute a recommendation of these products to the exclusion of other products.

APPROVED DIVISION OF LAND DEVELOPMENT & **ZONING ADMINISTRATION KOWAR**D COUNTY, MARYLAND MTE 3-20-84

STANDARD AND SPECIFICATIONS

CRITICAL AREA STABILIZATION

Definition Stabilizing silt-producing areas by establishing long-term stands of grass

To stabilize the soil; reduce damage from sediment and runoff to downstream areas; enhance natural beauty.

Conditions Where Practice Applies

On exposed soils that have a potential for causing off-site environmental damage where a quick vegetative cover is desired; on sites which can be maintained with ground equipment. (2:1 or flatter slopes)

SPECIFICATIONS

- 1. Class of turfgrass sod shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.
- 2. Sod shall be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall
- Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically from a
- 4. Individual pieces of sod shall be cut to the suppliers width and length. Naximum allowable deviation from standard widths and lengths shall be 5%.
- 5. Sod shall not be harvested or transplanted when moisture content (ex-
- cessively dry or wet) may adversely affect its survival. 6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transplanted within this period shall be inspected and

approved by the contracting officer or his designated representative

prior to its installation. I. <u>Site Preparation</u>

Pertiliser and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test and the contracting officer agrees, fertilizer and lime materials may be applied in amounts shown under B. and C., below.

- A. Prior to sodding, the surface shall be cleared of all trash, debris and of all roots, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations
- B. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 100 pounds per 1,000 square feet. In all soils 30 pounds of 5-10-5, or equivalent, per 1,000 equare feet shall be uniformly applied and mixed into the top 3 inches of
- C. Slow release nitrogen at the rate of 3.5 lbs. N/1000 square feet shall be applied to the prepared soil just prior to sod installation. This material shall be approximately 1/3 immediately available and 2/3 water insoluble mitrogen. Urea formeldehyde (UP) and isobutyli-

- A. During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod.
- B. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent
- C. On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping and pegging or other approved
- D. As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil surface. Sod shall be wetered immediately after rolling or tamping until the underside of the new sod ped and soil surface below the sed are thoroughly wet. The operations of laying, tamping and

hours. III. sod Maintenance

- A. In the absence of adequate rainfall, watering shall be performed daily or as often as deemed necessary by the inspector during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Wetering should be done during the heat of the day to help prevent wilting
- B. After the first week, sod shall be watered as necessary to maintain adequate moisture and insure establishment
- C. First mowing should not be attempted until sod is firmly rooted No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.
- D. Maintenance of established sod should follow specifications outlined in table 54-1.

References

- Guideline Specifications, Soil Preparation and Sodding. MD-VA. Pub. #1. Cooperative Extension Service, University of Maryland-Virginia Polytechnic
- 2. Guideline Specifications for Sodding. American Sod Producers Association,
- Training Program, "Vegetative Soil Stabilization", which relates to

Temporary Seedings by Rates, Depths and Dates

Species 3/	Souling Rate		Deuta 2	Seeding Dates 🖭								
	Per	Lbe/1000		COASTAL PLAIN			PIRCHOST			MORNTAINS		
	Acre	sq. ft.										
Choose cae: Barley Oats Rye	2-1/2 bu. 3 bu. 2-1/2 bu.	2.8 2.2 3.2	1-2 1-2 1-2	5/ x x	-	By 10/15 - x	3/ x x	-	By 10/15 x	x x	-	By 10/1 - x
Italian or perennial ryegrass 1/	40 lbs.	. 92	1/4-1/2	5/ x	-	By 11/1	<u>5</u> /	-	By 11/1	×	-	By 8/15
Millet	40 lbs.	. 92	1-2	-	×	-	-	×	-	-	×	-
Weeping,Boer, or Lehmann's lovegrass	3 lbs.	. 07	1/4-1/2	-	×	-	-	×	45	-	×	-
Sudangrass 🛂	40 lbs.	. 92	1-2	-	×	-	-	×	-	-	×	-
	Choose one: Barley Oats Rye Italian or perennial ryegrass 1/ Millet Weeping, Boer, or Lehmann's lovegrass	Species 3/ Per Acre Choose one: Barley Oats Rye Italian or perennial ryegrass 1/ Weeping, Boer, or Lehmann's	Species 3/ Per Lbs/1000 eq. ft. Choose one: Barley 2-1/2 bu. 2.8 3 bu. 2.2 Rye 2-1/2 ba. 3.2 Italian or perennial ryegrass 1/ 40 lbs92 Millet 40 lbs92 Weeping, Boer, or Lehmann's lovegrass 3 lbs07	Species 3/ Per Lbe/1000 (Inches)	Per Acre Lbs/1000 (Inches) Q2	Per Acre Lbs/1000 Clinches CDa67AL 2/1- 5/1- 4/30 8/14	Per Acre Lbs/1000 Classes Faxilian Choose die: Barley 2-1/2 bu. 2.8 1-2 x - By 10/15 Rye 2-1/2 bu. 3.2 1-2 x - x - x - x	Per Acre Lbe/1000 Ginches Constal Fall Fa	Per Acre Lbs/1000 (Inches)	Species 3 Per Acre 2 1 1 1 2 2 1 3 1 3 1 3 1 1 1 1	Per Acre Lbs/1000 Sq. ft. Coastal Fail Fail Sq. ft. Sq. ft. ft. Sq. ft. ft. Sq. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft	Per Acre Libe/1000 Rq. ft.

- 1/ Use only on areas where seed stalks and volunteer growth are acceptable.

REVIEW FOR:

NAME

AND MITETO TECHNICAL REQUIRMENTS
6-22-84

HOW.ART

- 3/ Use varieties currently recommended for Maryland. Use certified seed when available.
- 4/ Use common sudangrass varieties only. Do not use hybrids.
- 5/ Twenty pounds per acre of annual lespedeza may be added to 1/2 the seeding rate of any species used
- 6/ Between fall and spring seeding dates, use mulching only or sodding practices
- x Applicable during entire period. Not applicable in period.

9.C.D

6-22-84

* TEMPOKARY SEEDING OF THIS PROJECT SHALL BE ONE OF THESE. A TYPES, DEPENDING ON TIME OF YEAR SEEDING IS TERFORMED. APPROVED: FOR PUBLIC WATER PUBLIC GEWERAGE &

HOWARD COUNTY DEPT. OF PLIBLIC WORKS DATE

STURM DRAIN STSTEMS & ROADS

C-28-84 CHIEF OURBALL OF ENGINEERING TO LAND DATE

DEVELOPMENT & ZONING ADMIN.

ALVIN MAIER

STANDARD AND SPECIFICATIONS

FOR

CRITTICAL AREA STABILIZATION

(With Mulching Only)

Definition

Applying plant residues or other suitable materials not produced on the site

To conserve moisture; prevent surface compaction or crusting; reduce runoff

On graded or cleared areas (not to finished condition) which are subject to

season to produce an erosion retardant cover, but which can be stabilised

erosion for 6 months or less; where seedings may not have a suitable growing

SPECIFICATIONS

A. Prior to mulching, insitall needed erosion control practices such

B. Final grading is not required prior to mulching. However, mulching

1. Straw - Straw shall be unrotted small grain straw applied at

the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds per

woods which are: Canada thistle, Johnsongrass and quackgrass

Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximate-

2. Asphalt emulsion of cutback asphalt at 600 to 1,200 gallons per

acre. This is suitable for a limited period of time where

travel by people, animals or machines is not a problem.

3. Synthetic soil stabilizers may be used according to manufac-

4. Mulch nettings such as jute or excelsion blanket may be used.

Staple to surface in waterways and on steep slopes. Lighter

materials of paper, plastic and cotton mulch nettings may be used where erosion hazard is not severe. If area is to be

Wood chips at the rate of approximately 6 tons per acre or 275 lbs. per 1,000 sq. ft. may be used when available and when

Crushed rock, stones, gravel or shale blankets. Apply at rate
of 20 to 100 tons per acre or 900 to 4,500 lbs. per 1,000 sq. ft.

B. <u>Mulch anchoring shall</u> re accomplished immediately after mulch placement to minimize loss ry wind or water. This may be done by one of

the following methods, depending upon size of area, erosion hazard,

and cost. On sloping land, practice No. 3 below, should be done on

the contour wherever possible. Applies to straw and to wood chips on more ctitical sites, except "tracking" should be done up and down the slope with 1-1/2" cleats making greeves across the slope.

Per and Twine - Drive 8 to 10-inch weeden page to within 2 to 3 inches of the soil surface every 4 feet in all directions.

Mulch Nettings - gtaple lightweight biodegradable paper, plastic or cotton netting over the mulch according to manu-

Stakes may be driven before or after applying mulch. Secure

mulch to soil surface by stretching twine between pegs in a

facturer's recommendations. Metting is usually available in rolls 4 feet wide and up to 300 feet long.

Mulch Anchoring Tool - (not a disc) - A tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of

wil. This practice affords maximum erosion control but is

limited to flatter slopes where equipment can operate safely, primarily used on steeper than 3:1 cut and fill slopes to cut the mulch into the soil with bulldoser cleats.

Applications of liquid binders should be heavier at edges where

wind catches mulch, in valleys, and at crests of banks. Remain-der of area should be uniform in appearance. Caution should be

. Cutback asphalt is rapid curing (RC-70, RC-250 and RC-800) or medium curing (MC-250 or MC-800). Apply 5 gallons per

1,000 sg. ft. or 200 gallons per acre on flat areas and

high, use 8 gallons per 1,000 sq. ft. or 348 gallons per

b. Emulsified asphalt - (SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2,

CRS-1, and CRS-2). Apply 5 gallons per 1,000 sq. ft. or

8 feet high. On slopes 8 ft. or more high, use 8 gallons

All asphalt designations are from the Asphalt Institute

Synthetic binders - Synthetic binders such as Curasol,

DCA-70, Petroset and Terra Tack may be used at rates

ecommended by the manufacturer to anchor mulch material

Note: All names given above are registered trade names

This does not constitute a recommendation of these products to the exclusion of other products.

per 1,000 square feet or 348 gallons per acre.

1. USDA - Soil Conservation Service Field Office Technical Guides

Mulches for Wind and Wathy myosion Control, USDA, and 41-84, July 1961

Note: Maryland water Resources Administration has developed an audiovisual

program, "Temporary Soil Stabilization", which relates to this subject.

OWNER:

100 gallons per acre on flat areas and on slopes less than

on slopes less than 8 feet high. On slopes 8 feet or more

4. Liquid Mulch Binders

Specifications.

criss-cross within a square pattern. Secure twine around each peg with two or more round turns.

ly 1,000 sq. ft. section and place 70-90 lbs. of mulch in

1,000 sq. ft. Mulch materials shall be relatively free of

all kinds of weeds and shall be free of prohibited noxious

spreaders, grassed waterways and sediment basins.

may be applied after final grade is reached.

moved, do not use metal staples.

as diversions, grade stabilization structures, berms, dikes, level

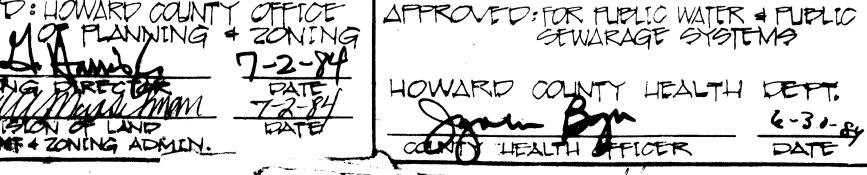
Conditions Where Practice Applies

and erosion; control weeds; and help establish plant cover.

to the soil surface.

I. Site Preparation

A. Materials and Amounts



4700 ANNAPOLIS ROAD

BLADENGBURG, MD. 20710

STANDARD AND SPECIFICATION

CRITICAL AREA STABILIZATION

(With Permanent Seedings)

Definition

To stabilise the soil; to reduce damages from sediment and runoff to downstreem areas; improve wildlife habitat; enhance natural beauty.

Planting vegetation such as grasses and legumes on critical areas

Conditions Where Practices Apply Graded or cleared areas subject to erosion and where a permanent, long-

lived vegetative cover is needed.

Vegetation cannot be expected to provide an erosion control cover and prevent seil slippage on a soil that is not stable due to its texture, structure, water movement or excessive slope.

Minimum soil conditions needed for the establishment and maintenance of a long-lived vesetative ourse:

- A. Enough fine-grained materials (over 30 percent silt plus clay) to provide the capacity to hold at least a moderate amount of available moisture. Moticeable exception would be planting lovegrass and serious lespedess which can be planted on a sandier soil.
- B. Sufficient pore space to permit adequate rest penetration
- C. The soil shall be free from any material hammful to plant growth
- D. If these minimum conditions cannot be met, see specification,

I. Site Preparation

- A. Install needed erosion control practices such as interceptor dikes, berms and spreaders, contour ripping, erosion stops, channel liners and sediment basins.
- B. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application,

II. Seedbed Preparation

Flat areas and slopes up to 3 to 1 grade shall be loose and friable to a depth of at least 3 inches. The top layer of soil shall be loosened Slopes steeper than 3 to 1 shall have the top 1-3 inches of

Lime and fertilize according to soil tests. Lime and fertilizer needs can be determined by a soil testing laboratory, such as the University of Maryland's Soil Testing Laboratory

In lieu of soil test results, apply 2 tons dolumitic limestone and 600 pounds 0-20-20, or equivalent per acre before seeding. Marrow or disc line and 0-20-20, or equivalent fertiliser uniformly into the soil to minimum depth of 3 inches on slopes flatter than 3 to 1. On slopes of greater than 3 to 1 grade, the lime and fertilizer shall be worked as directed by the contracting officer. On sloping land, the final harrowing or discing operation should be on the contour wherever feasible. No attempt should be made to drag any discod area to make the soil surface very smooth after discing. At time of seeding, apply 400 pounds 38-0-0 ureaform fertiliser and 500 pounds 10-20-20, or equivalent fertilizer per acre. For mixtures containing perennial

A. Select a mixture from table 51-1.

soil loose and friable before seeding.

B. Apply seel uniformly with a cyclone seeder, drill, cultipacker firm, moist seedhed. 'taxirum seeding depth should be 1/4 inch on clayey soils and 1/2 inch on sandy soils, when using other

A. Materials and Amounts

- 1. Straw Straw shall be unrotted small grain straw applied at the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds per 1,000 eq. ft. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited montious weeds which are: Canada thistle, Johnsongrass and quashgrass.
- Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1.000 sq. ft. section and place 70-90 lbs. of mulch in each
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- Staple to surface in waterways and on steep slopes. Lighter materials of paper, plastic and cotton mulch nettings may be used where erosion hazard is not severe. If area is to be moved, do not use metal steples. 4. Wood chips at the rate of approximately 6 tons per acre or

Mulch nettings such as jute or excession blanket may be used

275 lbs. per 1,000 sq. ft. may be used when available and when

- feasible to use. Particularly well-suited for utility and B. <u>Hulch anchoring</u> shall be accomplished immediately after mulch placement to minimise loss by wind or water. This may be done by one of
- and cost. On sloping land, practice No. 3 below, should be done on the contour wherever possible. Applies to all straw and to wood chips or more critical sites, except "tracking" should be done up and down the slope with 1-1/2 inch cleat marks running across the <u>Per and Twine</u> - Drive 8 to 10-inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions.

Stakes may be driven before or after applying mulch. Secure

mulch to soil surface by stretching twine between pegs in a

criss-cross within a square pattern. Secure twine around each

peg with two or more round turns Mulch Nettings - Staple lightweight biodegradable paper, plastic or cotton nettings over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4 feet wide and up to 300 feet long.

STWARAGE SYSTEMS

6-31-5

DATE

<u>Mulch Anchoring Tepl</u> - A tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of soil. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely. Tracking primarily used on > 3:1 cut and fill slopes to cut the mulch into the soil with bulldoser cleats.

4. Liquid Mulch Binders

Applications of liquid binders should be heavier at edges where wind catches mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance. Caution should be used with asphalt in residential and similar areas.

- a. Cuthack asphalt rapid curing (NC-70, NC-250, and NC-800) or medium curing (MC-250 or MC-800). Apply 5 callons per 1,000 sq. ft. or 200 gallons per acre on flat areas, and on slopes less than 8 feet high. On slopes 8 feet or more high, use 8 gallons per 1,000 sq. ft. or 348 gallons per
- b. Emulsified asphalt (SS-1, CSS-1, CMS-2, MS-2, MS-1, RS-2, CRS-1, and CRS-2). Apply 5 gallons per 1,000 sq. ft. or
- All asphalt designations are from the Asphalt Institute

8 feet high. On slopes 8 feet or more high, use 8 gallons

- c. Synthetic binders Synthetic binders such as Curasol, DCA-70, Petroset and Terra Tack may be used at rates recommended by the manufacturer to anchor mulch material
- Mote: All names given above are registered trade names. This does not constitute a recommendation of these products to the exclusion of other products.

VI. Irrigation

If soil moisture is deficient, supply new seedings with adequate water for plant growth until they are firmly established, if feasible. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

intenance is a vital factor in maintaining an adequate vegetative erosion control cover. See Table 51-2.

- A. Irrigation If soil moisture becomes deficient, irrigate to prevent loss of stand of protective vegetation, if feasible.
- Repairs Inspect all seed areas for failures and make necessary repairs, replacements, and resendings within the planting season,
- If stand is inadequate for eresion control, overseed and fertilise using half of the rates originally applied.
- 2. If stand is over 60% damaged, reestablish following original lime, fertilizer, seedbed preparation and seeding recom-

- 1. Lawn Care in Maryland, Bulletin 171; Cooperative Extension Service,
- University of Maryland, College Park, Maryland. 2. Maryland State Highway Administration Specifications for Materials.
- 3. USDA Soil Conservation Service Field Office Technical Guides.

Note: Maryland Department of Water Resources has developed an audiovisual

training program, "Plant Materials and Vegetative Soil Stabilisation", which relates to this practice.

Maintenance Pertilization for Permanent Sol

USS SOLI TOST RECOMMENDATIONS OF RATES SHOWN PSIGN										
Seeding Mixtures	Pormulation*	Lbs/Ac.	Lbs/1000 sq.ft.	Time	Mowing					
'Ky-31' tall fescue and)	20-10-10	250	6.75	Sept. 1 - Oct. 1	• Now no closer					
Kentucky bluegrass-)	20-10-10	250	6.75	30 days later.	than 2 inches					
Red feecue mixture)	20-10-10	250	6.75	December.	for bluegrass					
	20-10-10	₩5	2.25	May 20 - June 30, as needed.	and 3 inches for fescue.					
Permulagracs, 'Tufcote'	20-10-10	200	5.00	May 1, July 1	1-2"					
	0-10-10	200	5.00	August 15						

	Commission oversing and oversing and oversing												
		SEEDING MINUS		-			. (PTIME A		(e)			
	Mm.	(One Cortified Seed if available)	350	1004	a	MOUNL PL	ATE		PERMINENT		•	MOUNTAIN	•
	Ho.	i .		M.B.	2/1-4/30	\$43-8434	4/35-30/33	3/3-4/30	14/1-1/11	9/1-19/15	1/3-4/31	6/1-7/31	8/1-9/30
	1.	'Kastucky 31' Tall Pessus *	- 60	1.38	*			*	-	*	-	-	×
* *	2,	'Entucky 31' Tall Procus *	60	1.38	-		-	-	*	-	-	1	-
		TOTAL ASSESSMENT '-'	-			<u> </u>					<u> </u>		
	3.	'Hamtucky 31' Tall Papeus * 'Hamasm' lespedeza (b) incomisted	50 15	1.15	*	-	•	-	-	-	-	-	-
	4.	'Kentucky 31' Tall Procus * Seriesa lespedasa (b) inoculated	40 20	.92 .46	*	-	*	×	-	×	×	-	H
	5.	'Kentucky 31' Tall Pearws * Birdsfoot trefeil, immulated	40 10	.92 .23	-	-	-	-	-	-	2000 ·	elev. 6	above
	6.	Creamvetch, incomlated	15	.34	*	-	-	-	-		*	-	
	7.	Cresswetch, inoculated 'Mentucky 31' Tall Feecus *	15 40	.46		-		*	-		×	•	
-	₽.	Prysider Arese 'Kestucky 31' Tall Pescus ' Redtap	30 5	.69	×	-		*	-		×	-	×
	9.	Wasping lovegrees Seriesa laspotesa(b) impoulated,	2 20	.05 .46	*	R	-	*		-	*	=	-
	10.	Poorly Drained Aress 'Restucky 31' Full Popres "	30	.00	×	_			_	*	×	-	*
	11.	Proof canalygrass (0)	10	.23									
	12.	Shaded Areas 'Heatmain 31' Tall Pesons *	60	1.30	*	_	×		_	*	×	-	*
	13.	had Passus 'Jamestown' or 'Penn- lamn'	*	.92		-	×	=	-	ж ,	×	-	*
	14.	Lores & High Heintoness Areas 'Heriam' Enstudy Eluspress * Common Enstudy Bluogress (4) Red Pesous, 'Pennlam' or'Jamestes	40 40 1 20	.92 .92 .46	×	-	=	×	-	x	¥	-	*
	15.	'Kentucky 31' Tall Pessus o(g)	236- 360	5-6	*	x (£)	*	=	# (£)	×	×	x (£)	=

** LOF OFFDING MIXTURE NO. 2 FOR PERMANENT

SEDIMENT + EROSION CONTROL

MAIER INDUSTRIAL PARK . SPECTION ! PARCEL C.4 ALVIN MAITR WAREHOUSE

GUILIFORD ELECTION DISTRICT + G HOWARD COLINTY

JAX MAP NO 47 REVISIONS JOYCE ENGINEERING DESCRIPTION CORPORATION REVICED TITLE BLOCK Engineers • Planners • Surveyers SCOO SUMMYSIDE AVE., BELTSVILLE, MD. 20706 WANT LAMPIET 40PA SCALES NONE LOS NO 83-030 PAR 1989 FLEND BOS

JEC TILE # 53-036