

SEEDBED PREPARATION: -- Loosen upper three inches of soil by raking, disking, or other

acceptable means before seeding, if not previously loosened.

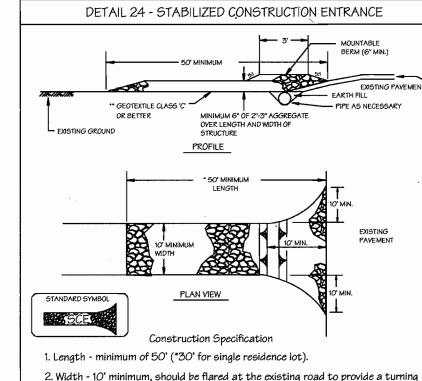
SOIL AMENDMENTS: -- Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000sq. ft.).

SEEDING -- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-12 bushels per acre of annual rye (3.2 lbs/1000sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION

AND SEDIMENT CONTROL for additional rates and methods not covered.

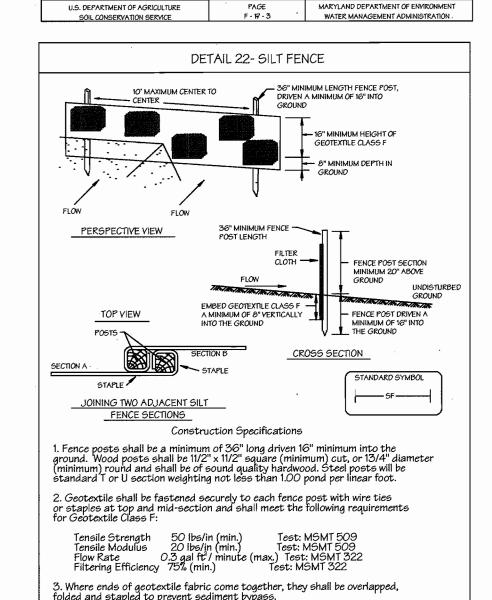


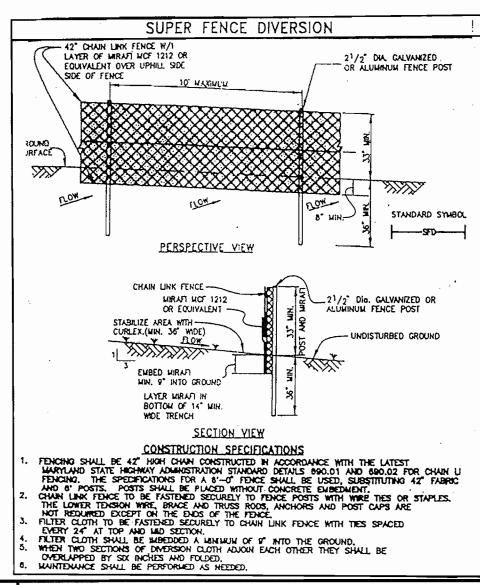
2. Width - 10' minimum, should be flared at the existing road to provide a turning

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile. 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.





4. Silt Fence shall be inspected after each rainfall event and maintained when

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U.S. DEPARTMENT OF AGRICULTURE

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation. Conditions Where Practice Applies

I. This practice is limited to areas having 2:1 or flatter slopes where:

a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasible.

II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the following:

i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay Loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1-1/2" in diameter.

ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified. iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread

at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

III. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section ! - Vegetative Stabilization Methods and Materials.

IV. For sites having disturbed areas over 5 acres:

i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.

b. Organic content of topsoil shall be not less than 1.5 percent by weight. c. Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization --Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins. ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.

iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below

i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the

Environment under COMAR 26.04.06. b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements

c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet, ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb./1,000 square feet, and 1/3 the normal lime application rate.

UNDER ADVANCED

DEPOSIT ORDER (ADO)

BLOSSOM DRIVE

EX. PAVING

706/

FLOWER

EX. PAVING @ C

(C-14-1686-D) ~

(C-14-1686-D)

393.4 +/-

EX. 8" W.

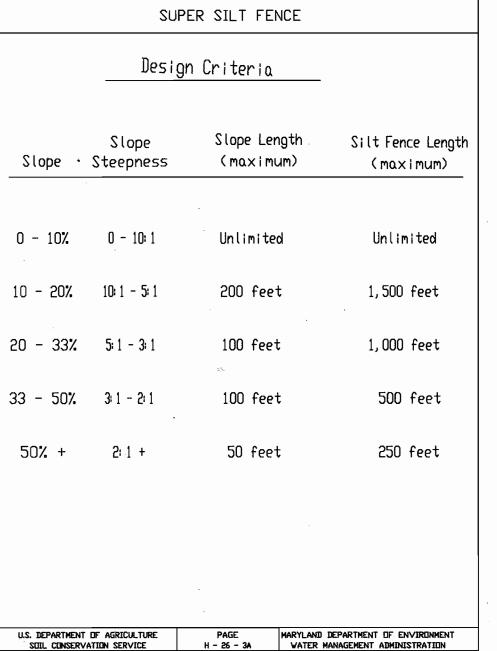
References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub.#1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

DETAIL 33 - SUPER SILT FENCE 36" MINIMUM CHAIN LINK FENCING -FLOW FILTER GLOTH STANDARD SYMBO *IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42

onstruction Specifications . Fencing shall be 42' in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42' fabric and 6' length posts. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24' at the top and mid section. 4. Filter cloth shall be embedded a minimum of 8° into the ground.

When two sections of filter cloth adjoin each other, they shall be overlapped by 6' and folded. 6. Maintenance shall be performed as needed and silt buildups removed when 'bulges' develop in the silt fence, or when % of fence height silt reaches 50 . Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class Fi Tensile Strengt Tensile Modulus Flow Rate Filtering Efficiency 50 lbs/in (min.) 20 lbs/in (min.)

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410 385

405 380

400 375

395 370

390 365

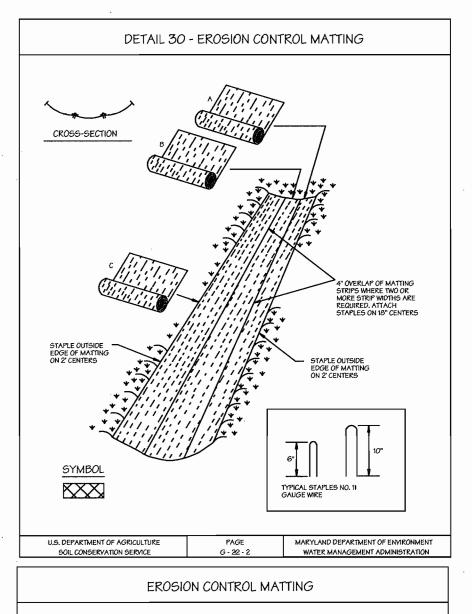
MAINTAIN MINIMUM

PRESSURE SEWER

COVER OVER

1-1/4" LOW PRESSURE

SEWER (BY PLUMBER) -



Construction Specifications

1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6". 2. Staple the 4" overlap in the channel center using an 18" spacing

3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil. 4. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center. 5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples

spåce'd 6" apart in a staggered pattern on either side 6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples. Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMEN

SEQUENCE OF CONSTRUCTION

1 DAY

1 DAY

3 DAYS

6 DAYS

90 DAYS

142 DAYS

 OBTAIN GRADING PERMIT. 2. NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTIONS, LICENSES & PERMITS AT LEAST 24 HOURS PRIOR TO

STARTING WORK. 3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE 4. INSTALL SUPER SILT FENCE AND SILT FENCE AT LIMIT OF DISTURBANCE AS SHOWN HEREON.

5. CLEAR AND GRUB SITE TO SUB-GRADE. 6. BEGIN EXCAVATION FOR HOUSE FOUNDATION AND BEGIN HOUSE CONSTRUCTION. 7. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY 30 DAYS

MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL AND ON A DAILY BASIS. 5 DAYS

8. FINE GRADE AND STABILIZE WITH PERMENANT SEEDING MIXTURE AND STRAW MULCH. INSTALL INDIVIDUAL DRIVEWAY AND HOUSE WALK.

WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, 5 DAYS REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH.

F.F. 384.50

PROPOSED

DWELLING

B.F. 374.00

370

365

TOTAL TIME:

INSTALLED BY PLUMBER

-EX. GROUND .

PROP.GRADE -

INV. OUT

368.50

4" SHC @

1.80%

- INV. IN

368.00

architect and/or builder. LANDSCAPE PERIMETER TABLE neter No. Perimeter Length Buffer Type Adjacent Land use SFD SFA 1445 L.F. 1662 L.F. ROAD

Scale: 1"=20'

Prior to construction stake-out,

confirm building dimensions with

FIRST FLOOR AREA: 2730 SQ. FT.

TOTAL FLOOR AREA: 5876 SQ. FT.

SECOND FLOOR AREA: 3146 SQ. FT.

MEAN ROOF ELEV.

MEAN GROUND ELEV.

SCHEDULE A PERIMETER LANDSCAPE EDGE			
Category	Adjacent to Roadways	Adjatent to Perimeter Propertie	
Perimeter	P-3	P-2	P-1
Landscape Type	В	A	В
Linear Feet of Roadway Frontage/Perimeter	1662 L.F.	1445 L.F.	2197 L
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	Yes 1662 L.F.	Yes 1445 L.F.	Y <i>es</i> 2197 I
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	No	No .	No
Number of Plants Required Shade Trees Evergreen Trees Shrubs	N/A	N/A	N/A
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	N/A	N/A	N/A

Comments: 1) The site is permanently protected by a conservation easement administered by the Maryland Environmental Trust. Credit is provided for all perimeters by retention of existing vegetation.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

THIS DEVELOPMENT PLAN IS APPRO D FOR SOIL EROSION AND SEDIMENT

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

395

393.5 +/-

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR

INSTALL CLEANOUT @ PL (ADO

SEWER TO BE INSTALLED BY PLUMBER

-PRESSURE SEWER CONNECTION @

- 4" 5. @ 2.00%

SEWER PROFILE

1" = 5' V

SCALE: 1" = 50' H

4" STANDPIPE BY PLUMBER

·400.20 +/-

400.00 +/-

-8" S. @ 4.00%

MAINTAIN MINIMUM COVER OVER PRESSURE SEWER

1-1/4" LOW PRESSURE

SEWER (BY PLUMBER)

SEWER PROFILE SCALE: 1" = 50' H 1" = 5' V BDB REVISIONS Description Date KBW BDB 12/2005

9250 Rumsey Road, Suite 106, Columbia, MD. 21045 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax) SEDIMENT CONTROL, LANDSCAPE & CONSTRUCTION DETAILS

As Shown MULROY PROPERTY 4194 NEW CUT ROAD 50F5 Liber 8919 Folio 80 JOB NO. Tax Map No. 25, Grid No. 19 Parcel 71 05-012 2nd Election District, Howard County, Maryland revious Submittals: N/A ROBERT J. & KIMBERLY R. MULROY FILE NO. 8367 KING HEIGHTS ROAD 3DP06-012 Ellicott City, Maryland 21043 443-280-1739

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SDP 06 - 012