

MARYLAND DEPARTMENT OF ENVIRONMENT

NO JE JAYS

\*IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42"

Tensile Modulus

7. SITE ANALYSIS:

Filtering Efficiency 75% (min.)

U.S. DEPARTMENT OF AGRICULTURE PAGE MAR

Construction Specification

1. Fending shall be 42° in height and constructed in socialization with the latest Maryland State Highway Datails for Chain in Flending. The specification for a 6' fence shall be used substituting 42° take, and no ength

The lower tension wire, brace and truss roos, arize independent and post caps are not

3. Filter cloth shar be fastened accuracy to the site in the Conde with ties spaced

5. When two sections of filter coth scioir each stratishes and be averlapped

6. Maintenance shall be performed as readed and this buildway amoved knew "builges" develop in the sit fence on when sit reaches 50% of tense thought.

SOIL CONSERVATION SERVICE H - 26 - 3 HATER MANAGEMENT ADMINISTRATION

7. Filter cloth shall be fastened securely to each tence past with wire ties or

stoples at top and mid section and shall roset the following may remembe to

20 lbs/ir (min

SEDIMENT AND EROSION CONTROL NOTES

A <u>minimum of 48 hours</u> notice must be owen 1. The Mowen's County Department of Inspections, uccesses and Permits, Sediment Control Division prior to the start of any construction (313-1855).

All vegetative and atrustural practices are to be installed according to the provisions of this pion and are to be an conformance with the 1945 MARYLAND STANDARDS AND SPECS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereby

3. Following initial soil disturbance or redisturbance permanent at temporary stabilization shall be completed within a) 7 colendor days for an perimeter sediment control studener, dikes, perimeter specified islaces greater than 3rd b) 14 days as to all other disturbed or graded stress or the project file.

4. All sediment traps/posins shown must be reposed and worming

signs posted around their perimeters in accordance with the Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm

5. All disturbed oreas must be atabilized within the time pending specified above, in accordance with the 1994 MARYLAND STAND ARDS AND SPECIFICATIONS FOR SOIL EROSION AND SECIMENT CONTROL for permanent seedings, sod, temporary sending and mulching (Sec G).

Temporary stabilization with houldn along can analy use agree when recommended seeding dotes do not allow for proper uprincipation and establishment or consens.

All sediment control structures are to remain in pince and are to be maintained in operative condition until permassion for the removal has been obtained from the Howard County, Sediment Control Inspector.

Area to be roofed or paved:
Area to be vegetatively stabilized:
Total Out:

Offsite Moste/Borrow Area Lacation

Any sediment control proctice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

Additional sediment control must be provided, if seemed necessor by the Howard County DPW Sediment Control inspector.

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but pafere proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

stabilized within one working day, or a limited to three pipe engths 

11. Trenches for the construction of utilities shall be pockfilled un

\* It is the responsibility of the contractor to identify the spoil/borrow site and ratify and gain approval from the sediment control inspector of the site and it is grading permit number at the time of construction.

. Install tree protection fence . Install sediment and erosion control devices and stabilize

sediment and erosion control devices and stabilize

3. Install sediment and erosion bontrol devices and statilize
4. Excavate for foundations, rough grade and temporary stabilize
5. Construct structures, sidewalks and driveways
6. Final grade, install Erosion Control Matting and stabilize in accordance with standards and specifications
7. Upon approval of the leadment control inspector, remove

SAMBAGE BESSENCE BESSENCE (BANKER LIGHTEN) (BESSENCE REPORTED PROSESSE PROSESSE BESSENCE FOR A CONTROL BESSENCE BESSENCE

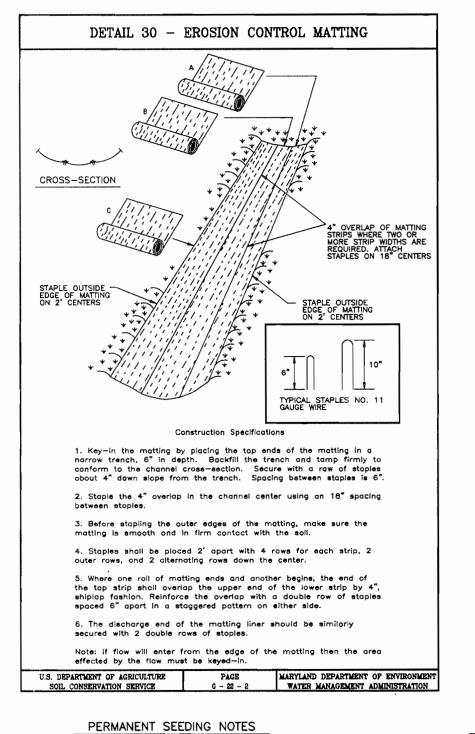
13. The total amount of super silt fence in

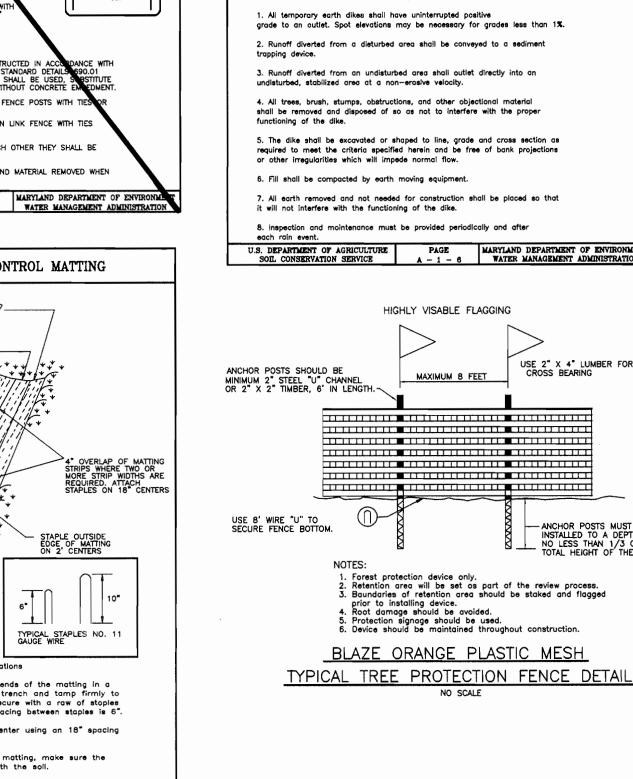
14. The total amount of super diversion fence -

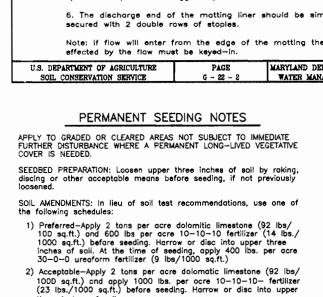
CONSTRUCTION SEQUENCE:

1. Obtain grading parmit

4. Filter cloth shall be entedoed a minimum at 3 into the shore







SEEDING: For the periods Morch 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per ocre (1.4 lbs/1000 sq.ft.) of Kentucky 31 Toll Fescue. For the period Moy 1 thru July 31, seed with 60 lbs. Kentucky 31 Toll Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

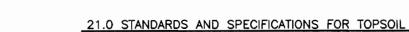
three inches of soil.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring. MAINTENANCE: Inspect oil seeded oreas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES SEEDBED PREPARATION: Loosen upper three inches of soil by roking, discing or other acceptable means before seeding, if not previously SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft). SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the period November 1 thru February 28, protect site by applying 2 tons MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain strow immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet ar higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

> Reviewed for HOWARD S.C.D. nd meets Technical Requirements Signature / CS. Zij D/ J.S. Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION ISTRICT.



Definition Placement of topsoil over a prepared subsoil prior to

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

- 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 The soil material is so shallow that the rooting zane is not deep enough to support plants or furnish continuing supplies of maisture and plant nutrients.
- 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 apprapriate stabilization shown on the plans. Construction and Material Specifications Topsoli salvaged fram 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 coaperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications Soil to be used as topsoil must mest this following: i. Topsoil shall be a loam, sondy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronamist or a soil scientist and approved by the appropriate approval authority. Regardless, tapsail 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.
- Tapsoil must be free af plants or plant parts such as Bermudo grass, quackgrass, Johnsongrass, nutsedge, polson ivy, thistle, or others as specified. iii. Where the subsail 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 tapsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with till—age operations as described in the following pracedures.

III. For sites having disturbed areas under 5 acres: Place topsoil (If required) and apply soil amend— ments as specified in 20.0 Vegetative Stabilization — Section I — Vegetative Stabilization Methods and

DETAIL 1 - EARTH DIKE

2:1 SLOPE OR FLATTER

V,V,V,V,V,V,V

PLAN VIEW

FLOW CHANNEL STABILIZATION

Construction Specifications

HIGHLY VISABLE FLAGGING

MAXIMUM 8 FEET

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 

------------

refers protection device any,
 Retention area will be set os part of the review process,
 Baundaries of retention area should be staked and flagged

Protection signage should be used.
 Device should be maintained throughout construction.

BLAZE ORANGE PLASTIC MESH

NO SCALE

. Forest protection device only.

Seed and cover with Erosion Control Matting or line with sod.
 4" - 7" stane or recycled concrete equivalent pressed into

a-DIKE HEIGHT 18" 30"

STANDARD SYMBOL A-2 B-3

<del>--</del> -/-- -

b-dike width

c-FLOW WIDTH 4' d-FLOW DEPTH 12"

2:1 SLOPE OR FLATTER

. Seed and cover with straw mulch.

CUT OR FILL SLOPE

IV. For sites having disturbed areas over 5 acres:

- On sail meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the sail into compliance with the following: following:

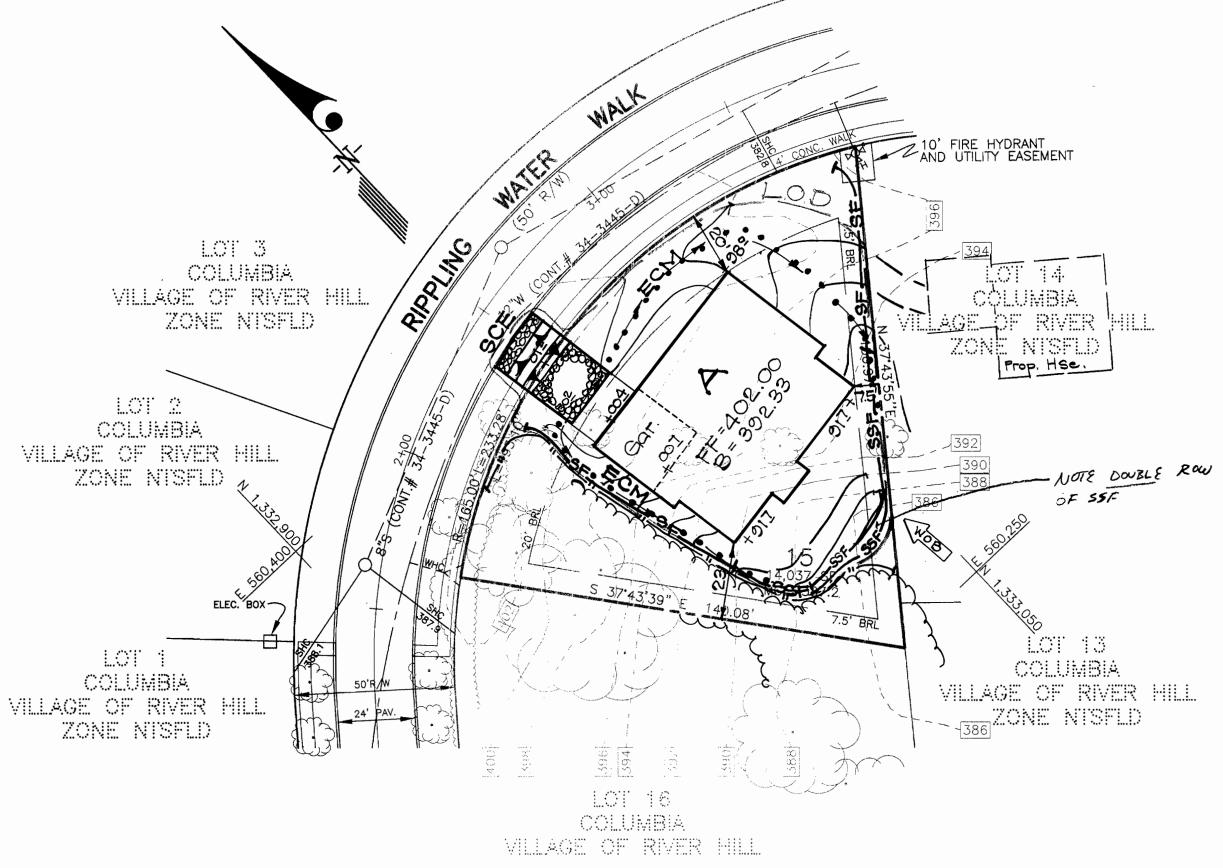
  o. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of lees than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.

  Dorganic content af topsoil shall be not less than 1.5 percent by weight.

  c. Tapsoil having soluble salt content greater than 500 parts per million shall not be used.

  d. No sad or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed contral until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.
- NOTE: Tapsail substitutes or amendments, as recommended by a qualified agronamist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
- Place topsall (if required) and apply soil amendments specified in 20.0 Vegetative Stabilization—Section I— Vegetative Stabilization Methods and Materials. V. Tapsall Application
- 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. Grades on the areas to be topsciled, which have been previously established, shall be maintained, albeit 4\*- 8" higher in elevation.
- iii. Topsoil shall be unifarmly distributed in a 4"-8" 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 top—soiling ar other operations shall be corrected in order to prevent the farmatian of depressions or water pockets. water pockets.

iv. Topsoil shall not be place while the tapsoil or subsoil is in a frozen ar muddy candition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.



OWNER / DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT CORP. 10725 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

DEVELOPER'S / BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done occording to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a 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 inspection by the Howard

Soil Conservation District or their authorized agents, as are deemed necessarv"

ENGINEER'S CERTIFICATE hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation



(9)D:/Drawings/VORH4-3/Nu-homes/lot

P.C.

CLARK · FINEFROCK & SACKETT, INC. ENGINEERS · PLANNERS · SURVEYORS 7135 MINSTREL WAY . COLUMBIA, MD 21045 . (410) 381-7500 BALT. . (301) 621-8100 WASH. SEDIMENT AND EROSION CONTROL

PLAN AND DETAILS P.C. LOT 15 **COLUMBIA** DRAWN KQL/典 VILLAGE OF RIVER HILL SECTION 4 AREA 3 CHECKED

JOB NO. FIFTH (5th) ELECTION DISTRICT 00 - 156HOWARD COUNTY, MARYLAND FILE NO. 10630 LITTLE PATUXENT PARKWAY, SUITE 146 00 - 156 - X12-7-00 COLUMBIA, MARYLAND 21044

1" = 30'

2 of 2

DRAWING

12-7-00 DATE

