

Using vegetation as cover for barren soil to protect it from forces that cause erosion PURPOSE Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to esode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources. Seed Specifications ired opecifications.

All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such understand on this lob.

Note Seed tags shall be made available to the inspector to verify type and rate of seed used.

If insculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of mirrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to be proculant as cool as possible until used. Temperatures above 75-80° f. can weaken bacteria and make the inoculant less effective. This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration Oup to one year). And Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockples, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc. Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. until used. Temperatures above 75°-80° F. can weaken bacteria and make the inoculatives effect of 5-seding. Apply seed uniformly with hydroseeder (skirry includes seed and fertilizer), broadcast or diop seeded, or a cultipacker seeder.

If tertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen maintain of 100 bs. per acre total of soluble nitrogen P205 (phosphorous); 200 bs/ac; K20 (potassium); 200 bs/ac.

I time - use only ground agricultural limestone, (Up to 3 tons per acre may be applied by hydroseeding). Hormally, not more than & tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

Seed and fertilizer. Sediment control devices must remain in place during grading, seedbed preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

A Site Preparation SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS Site Preparation

Install erosion and sediment control structures (either temporary of permankint) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.

Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.

Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.

Soil Amendments (Tertilizer and Lime Specifications)

Soil fests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.

Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by Seed and ferfilizer shall be mixed on site and seeding shall be some immediatery and without interruption.

Inciding: This includes use of conventional drop or broadcast spreaders.

Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact, where practical, seed should be applied in two directions perpendicular to each other.

Apply half the seeding rate in each direction.

Cultivature Seeding Machanised seeders that apply and cover seed with soil. Apply half the seeding rate in each direction.

Driff or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.

Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seededed must be firm after planting.

Where practical, seed should be applied in two directions perpendicular to each other apply half the seeding rate in each direction. Apply nail the securing rate to each unsection.

Mulch Specifications (In order of preference)

i. Straw shall consist of thoroughly threshed wheat, rive or oat straw, reasonable bright in color, and shall not be musty, moldy, called, decayed, or excessively dusty and shall be free of noxious weed seeds

as specified in the Maryland Seed Law. purposes may also be used for enemical analyses.

Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the named trade name or trademark and warrantee of the seculiars. not be musty, molely, caked decayed or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.

iii. Wood Cellulose Filter Mulch (WCPM)

iii. Word shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.

b. WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual imspection of the uniformly spread sturry.

c. WCFM including dye, shall contain no germination or growth inhibiting factors.

d. WCFM materials shall be manufactured and processed in such a manufer that the wood cellulose filter muleh will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous sturry.

The south-material shall fowm a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.

w.CFM material shall comfain no elements or gamelesunds at contentration levels that will be phyto-toxic.

WCFM must comform to the following physical requirements: fiber length to approximately 10 mm., diameter abproximately 1 mm., pH range of 4,0 to 8.5, ash content of 1.65 maximum and water holding capacity of 90% minimum.

Note: Only sterile straw mulch should be used in areas where one species of grass is desired.

Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.

Ii. If grading is completed outside at the seeding season mulch along shall be applied to a accordance with these specifications. of the producer.

of the producer.

iii Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50x total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50x will pass through a \*100 mesh sieve and 98-100x will pass through a \*20 meah sieve Incorporate lime and tertilizer into the top 3-5" of soil by disking or other suitable means. iv. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

Seedbed Pyeparation

I emplorary Seeding

a. Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural og construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than ail) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.

5. Apply fertilizer and lime as prescribed on the plans.

6. In corporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

B. Hinningin, soil conditions required for permanent venetative establishment. accordance with these specifications.

ii. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1° and 2° Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.

iii Wood (eliulose fiber used as a mulch shall be applied at a net dry weight of 1,500 bs. per acre. The word cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 bs. of wood cellulose fiber per 100 gallons of water.

Secusion Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:

A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch. 50il shall contain 1.5% minimum organic matter by weight.
 50il must contain sufficient pore space to permit adequate root penetration.
 If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
 Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope. A mulch anchoring tool size of area and erosion hazard:

A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.

Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water. to the surface area and to create horizontal erosion check slots to prevent topsol sliding down a slope.

Apply soil amendments as per soil test or as included on the plans. The soil amendments into the top 3-5 of testsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and, ready the area for seed and application. Where site conditions will not permit normal steedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to-troughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The fop 1-3 of soil should be loose and friable. Seedbed loosening may not be necessary on newly disturbed areas. of water.

Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and creat of banks. The remainder of ared should be appear uniform after binder application. Synthetic binders - such as Acrylic DLR later or Tack), DCA-70 Petroset, Terra Tax II. Terra Tack AR or other approved equal may be used at rates recommended by the manufacturer to anchor musch. Light-weight plastic metting may be stapled over the mulch according to manufacturer's recom-mendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

OPTIONAL BAY WINDOW

ON END UNITS ONLY -

OPTIONAL 10'X10' FUNROOM

 $PL\Delta N$ 

/OPTIONAL 10'X10' DECK

2 SECOND FLOOR

RIDGETOP

NOT TO SCALE

PROFILE

36.00

OVERHANG

SCHEDULE C RESIDENTIAL DEVELOPMENT INTERNAL LANDSCAPING NUMBER OF DWELLING UNITS 12 NUMBER OF TREES REQUIRED (1: DU SFA; 13 DU APTS) 12 NUMBER OF TREES PROVIDED SHADE TREES

OTHER TREES (2:1 SUBSTITUTION)

**APPROVED** 

PLANNING POLICE

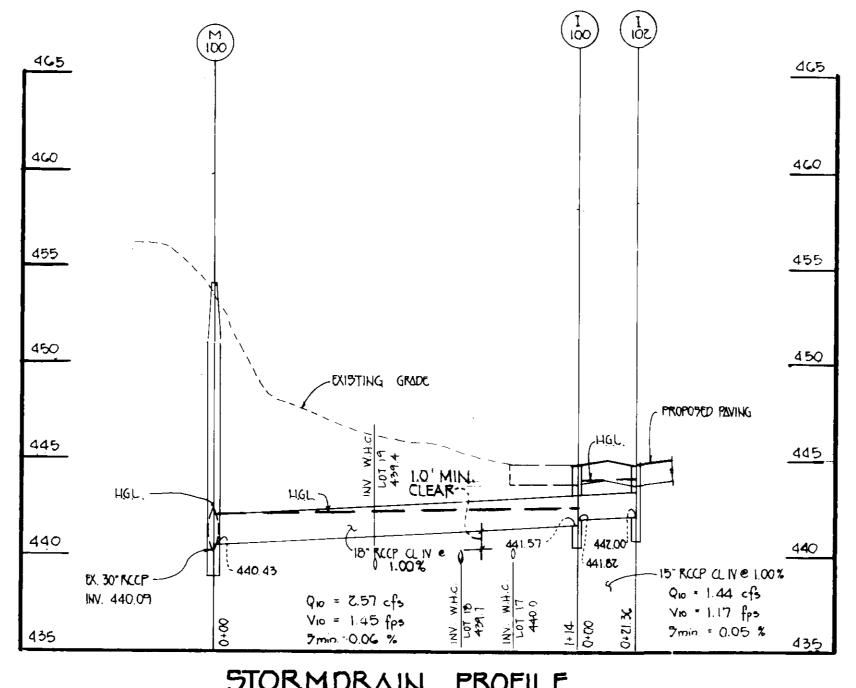
of HOWALL COUNTY

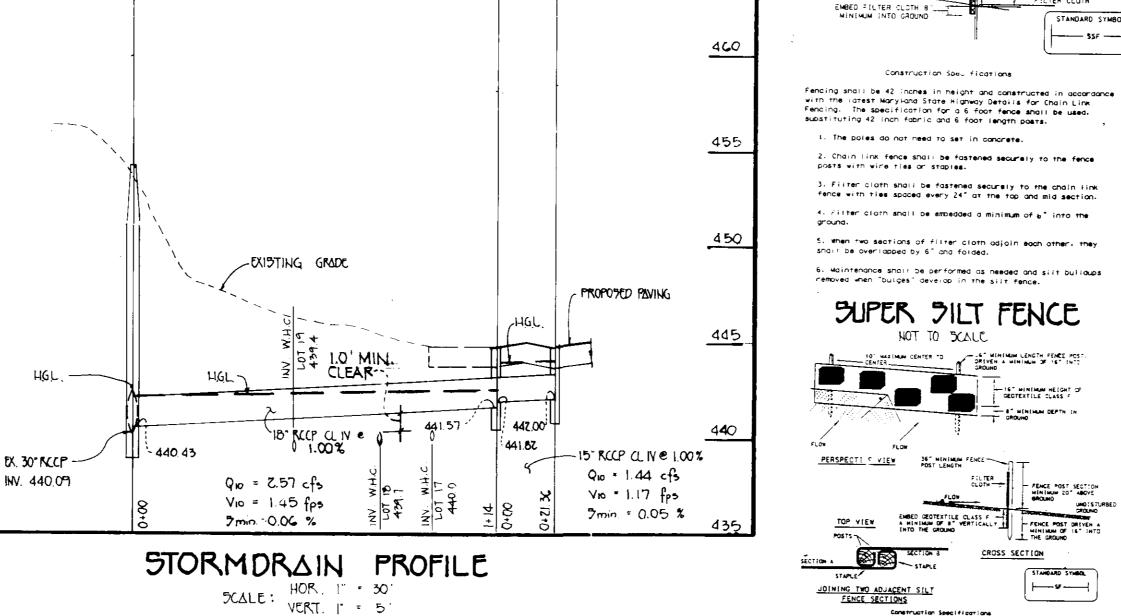
DATE 9/11/96

SCHEDULE B	
PARKING LOT INTERNAL LANDSCA	lping
NUMBER OF PARKING SPACES	10
NUMBER OF TREES REQUIRED	1
NUMBER OF TREES PROVIDED  SHADE TREES  OTHER TREES (2:1 SUBSTITUTION)	ļ —

PERIMETER L	ANDSCAPE E	DGE
CATEGORY	ADJACENT TO KOADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	E	
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	210	
CREDIT FOR EXISTING VEGETATION CIES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEED)		
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	_	
Number of plants required shade trees evergreen trees shrubs	5 (1:40) 52 (1:4)	
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES(2:1 SUBSTITUTION) SHRUBS(10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS	5 (1:40) - 52(1:4)	

BELOW IF NEEDED)





NUMBER

201-

DOUBLE 5 INLET

PRECAST MANHOLE

Construction Specifications 1. Fence posts and it be a minimum of 35° lang oriven 15° minimum into the ground. Noto bests shall be  $1^{1}\chi^{2} \times 1^{1}\chi^{2}$  square liminimum) out- or  $1^{1}\chi^{2}$  disperse tainimum) round and shall be of sound quality handwood. Steel posts will be standard T or U section weighting not less than 1.00 pand per linear foot. 2. Georextile shall be fastened securely to each fence past with wire flas or stoples at top and mid-section and shall meet the following requirements for Georextile Class  $\mathcal{E}_{\mathcal{E}}$ Tensile Strength 50 (ba/in (min.) Test: MSMT 509
Tensile Nowards 20 (ba/in (min.) Test: MSMT 509
Flow Note 0.3 got f+f/ minute (mox.) Test: MSMT 322
Filtering Efficiency 75% (min.) Test: MSMT 322 There ends of georestile tobric come rogether, they shall be overlapped foided and stapled to prevent sediment bypass. Stilt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment occumulation reached 50% of the facility in ight. SILT FENCE

FLOW

CHAIN LINK FENCIN

21/2 DIAMETE? GALVANIZED DRALUMINUM

TATA TA

	en det:			
	5. Surface Nater - all surface water flowing to entronces small be allowed through the subtracts, in installed through the legal order into one manifolised through the legals and a minisum of to be sized according to the drailings. Then the nation of clinage to convey a pipe will not be not according to the amount of runoff to be conveyed.	maintaining positive drainage. Pipe ntrunce shall be protected with a 6° of stone over the pipe. Pipe has been a country of the spot and tessary. Pipe shauld be sized		
	<ol> <li>Location - A stabilized construction entrance where construction traffic enters or leaves a co the site must travel over the entire length of ti</li> </ol>	Distriction alta. Vehicles Leguing		
.=	<u> FTABILIZED CON</u>	ISTRUCTION		
	ENTR	ANCE		
	OT TON	<b>5</b> < <u>Δ</u> ₹.5		
	2" x 4" FRAMING	EDGE OF ROADWAY OR TO OF EARTH DIKE	IP	
	TOP ELEVATION _	6" MINIMUM		
	NOTCH ELEVATION FLOW NAILING STRIP POST DRIVEN INTO CROUND	FLOW FLOW  EXCAVATE, BACKFILL AND COMPACT EARTH		
GEOTEXTILE	CLASS E WIRE MESH	STANDARD SYMBOL		
	Construction Specificat	tions		
1. no	Excavate completely around the inlet	to a depth of 18" below the		
2. Drive the 2" x 4" construction grade lumber posts 1' into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlop joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roodways where flooding and safety issues may arise.				
3. one pos	Stretch the 1/2" x 1/2" wire mesh tig I fasten securely. The ends must meet it.	phtly dround the frome tond overlop at a		
In: The	Stratch the Geotextile Class E tight! geotixtile extending from the top of et notch elevation. Fasten the geotex ends of the geotextile must meet at a ded, then Castened down.	the frome to 18" below the		

C STING PAVENENT
EMPTH FLORE

C PIPE AS NECESSARY

MENIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF STRUCTURE

PROFILE

PLAN VIEW

Length = minimum of 50' (#30' for single realdenes lot).

Construction Specification

2. Width = 10' minimum, should be flored at the existing rood to provide a turning  $\frac{1}{2}$ 

Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing state. . methe plan approval authority may not require single family residences to use geotextile.

Stone - crushed aggregate (2" to 3") or rectalmed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.

OR BETTER

STANDARD SYMBOL

SCE

36" MINIMUM

FLQW

21/2" DIAMETER GALVANIZED DR ALUMINUM POSTS

33" WINIMUM-POST AND 2ND LAYER FILTER CLOTH

\_16" MIN. 1ST LAYER OF FILTER CLOTH

STANDARD SYMBOL

---- \$\$F ----

1) A MINIMUM OF 40 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LISCENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1955).

2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN. 8) 7

CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DISES, PREIMETER SEDIMENT CONTROL STRUCTURES, DISES, PREIMETER SEDIMENT CONTROL STRUCTURES, AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL STORM DRAINAGE.

5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN TIE. TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50), SOIL SEC. 51), SOIL (SEC. 50) THE PORREY SEDIMING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE
 TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR
 THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT THEIR REMOVAL HAS BEEN OBTAINED FRU CONT.

THEIR REMOVAL HAS BEEN OBTAINED FRU CONTROL INSPECTOR.

7) SITE ANALYSIS:

TOTAL AREA OF SITE
AREA DISTURBED
AREA TO BE ROOFED OR PAVED
AREA TO BE VEGETATIVELY STABILIZED
TOTAL CUT
TOTAL FILL
OFFSITE WASTE 3.Q ACRES 3.O ACRES 5.B ACRES 7.Z ACRES CU.YDS. CU.YDS. TOTAL FILL

OCCUPIES

OFFSITE WASTE/BORROW AREA LOCATION

OFFSITE WASTE/BORROW AREA LOCATION

CU.YDS.

CU.YDS. APPROVALS HAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL
BY THE INSPECTION AGENCY IS MADE.

11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE
LENGHTS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN
ONE WORKING DAY, WHICHEVER IS SHORTER.

INV. OUT REMARKS 44 2,00 | 444.81 HO.CO. 9TD. DETAIL 904.23 69TA, 2+77.85 10.68 LT. " " " 504.23 £ 514. 2.77.85 10.68 RT 454.30 G 5.13

5. Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.

The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.

NOT TO SCALE

5. If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.

INLET PROTECTION DETAIL

AND COMMENTS			DOUBLE 5 INLET
		M-100	TTD. PRECATT MANHO!
ENGINEER'S CERTIFICATE		0	in and for HOULEON CCO. and
I certify that this plan for erosion and sedir plan based on my personal knowledge of the accordance with the requirements of the How	ment control represents a practical and workable site conditions and that it was prepared in ard 50il Conservation District."		D.ANational Resources
$\bigcap \bigcap \bigcap \bigcap \bigcap \bigcap$		Con	servailon Service
/ 1/\1 <b>\</b> \/ <b>A</b>	. 1	This	pevelopment place is approve

11/26/16 MILCHARLES J. CROVO Ingineer (Print name below signature) DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Piogram for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

ignature of Developer (Print name below signature)

Reviewed for HOWARD CD and meets Technical Require  U.S.D.ANatyfal Resources	Ments.
Conservation Service This pevelopment place is approved for soil erosion and s	
Howard SCD	12/5/96
	5
OWNER	PI
RYLAND HOMES	

441.87

440.43

APPROVED: DEPARTMENT OF PLANNING	AND ZONING		12/17/9C	
CHIEF, DIVIDION OF LAND DEVELOPMENT AND RESEARCH  CHIEF DEVELOPMENT ENGINEERING DIVIDION			TC DATE  12/10/96  VIC DATE	
SUBDIVISION	5ECT10	N LC	OT NO.	
DANIELS MILL OVERLOOK	OH	<u> </u>	G THINL 19	ΔR
DIAT NO BLOCK NO FRANCE	TAV/70NE	ELEC OVER	CONCLE TO	_

SEDIMENT CONTROL NOTES SITE DEVELOPMENT PLAN NOTES, DETAILS AND PROFILES

## DANIELS MILL OVERLOOK

FECTION ONE LOTS 6 THRU 19

REPUBDIVITION OF PARCEL "A" DANIELS MILL OVERLOOK - PLAT 12095 AND PART OF LIBER 449 AT FOLIO 6 TAX MAP 17 PART OF PARCEL 41 TELD NOITED ONE HOWARD COUNTY, MARYLAND

DATE: AUGUST 6, 1996 S.D.P.97-12

ENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL P ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

FISHER, COLLINS & CARTER, INC.

IVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. R-ED اک 12508 17 SECOND 6021 GALLERIA TOWERS WATER CODE 1447 YORK ROAD 5UITE 705 SEWER CODE SOH LUTHERVILLE, MARYLAND 21093 TCALE AT THOWN

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