PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SÕILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR 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 GROWTH.

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:

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 A 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 THAT 1 AND 1/2" IN

II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, QR 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.

II. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION -SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).

ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. AND REVISIONS THERETO.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES. DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE

4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SFEDING, SOD, TEMPORARY SFEDING. AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. 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 CONTROL INSPECTOR.

7. SITE ANALYSIS

TOTAL AREA AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED TOTAL CU TOTAL FILL. 696 CY OFFSITE WASTE/BORROW AREA LOCATION_

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

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 BEFORE 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.

TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT

WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES: 1) PREFERRED-APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/ 100 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./

1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE

INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE

30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.) 2) ACCEPTABLE-APPLY 2 TONS PER ACRE DOLOMATIC LIMESTONE (92 LBS/ 1000 SQ.FT.) AND APPLY 1000 LBS. PER ACRE 10-10-10- FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PÉR 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 FESCÙÉ AND MULCH WITH 2 TONS/ACRE WELL ANCHORED

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SO. 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

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS. REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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 PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE

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.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

- LEADER MUST REMAIN INTACT SEE "LANDSCAPE SPECIFICATION -PRUNE APPROXIMATELY 30% OF CROWN- SEE 'LANDSCAPE GUIDLINES'. DO NOT PRUNE OR SUPPORTING TREES LARGER 2 STRANDS OF GALVINIZED WIRE TWISTED FOR SUPPORT -UPRIGHT STAKES- SET IN GROUND TO FIRM BEARING -RUBBER HOSE √3" DEPTH MULCH -2" EARTH SAUCER FINISH GRADE -PLANTING MIX- SEE PLANTING -LOOSENED SUBSOIL

TREE PLANTING AND STAKING

FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:

500 PARTS PER MILLION SHALL NOT BE USED.

THE PH TO 6.5 OR HIGHER.

1.5 PERCENT BY WEIGHT.

PHYTO-TOXIC MATERIALS.

STABILIZATION METHODS AND MATERIALS.

V. TOPSOIL APPLICATION

SEDIMENT TRAPS AND BASINS.

- 8" HIGHER IN ELEVATION.

OR WATER POCKETS.

RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED

A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF

THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN

5.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE

B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN

. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN

D. NO SOD OR SEED SHALL BE PLACED ON SOIL SOIL WHICH

USED FOR WEED CONTROL UNTIL SUFFICIENT TIME, HAS

ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS. AS RECOMMENDED

BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY

II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMMENDMENTS

SPECIFIED IN 20.0 VEGETATIVE STABILIZATION-SECTION I-VEGETATIVE

WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND

. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE

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

CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS

SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL

IS FXCFSSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE

DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

IV. TOPSOIL SHALL NOT BE PLACE WHILE THE TOPSOIL OR

NOTES

GUIDLINES FOR BALTIMORE— WASHINGTON METROPOLITAN AREAS" FOR ALL MATERIAL,

SEE "LANDSCAPE GUIDLINES"

THAN 2-1/2" CALIPER. PLACE UPRIGHT STAKES

SPECIFICATIONS.

BUILDINGS.

SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE

STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND

BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"

OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL

RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE

PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE

THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF

HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS

I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST

DECIDUOUS AND EVERGREEN TREES UP TO 3" CALIPER

NOT TO SCALE

SCHEDULE A PERIMETER LANDSCAPE EDGE

| CATEGORY | ADJACENT TO ROADWAYS (FRONT) | ADJACENT TO ROADWAYS (SIDE) |
|---|------------------------------------|-----------------------------------|
| PERIMETER | P-1 | P2 |
| LINEAR FEET OF PERIMETER EDGE | 183 | 145 |
| LANDSCAPE TYPE | NONE REQUIRED | TYPE 'B' |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NA | NO |
| CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NA | . NO |
| NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS | NA NA NA | 3 4 0 |
| NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED) | NA NA NA NA | 3 4 0 0 |

DRELL SKORSKI

DEVELOPER'S/BUILDER'S CERTIFICATE

! WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE

ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVICLOPMENT REGULATIONS AND THE LANDSCAPE MANUAL, I/WE

CERTIFY THAT UPON COMPLETION A LETTER OF NOTICE ACCOMPANIED BY AN EXECUTED ON EYEAR GHARANTEE OF PLANT MATERIALS WILL BE SUBHITTED PLANTING AND ZONING

| QTY | BOTANICAL NAME/ COMMON NAME | SIZE | ROOT |
|-----|---|---------------|-------|
| 3 | ACER RUBRUM 'OCTOBER GLORY'/ RED MAPLE | 2 1/2"-3" CAL | В & В |
| 4 | PINUS STROBUS/ EASTERN WHITE PINE | 6'-8' HT. | B & B |

DETAIL 1 - EARTH DIKE

2:1 SLOPE OR FLATTER - EXCAVATE TO PROVIDE REQUIRED FLOW WIDTH GRADE LINE AT DESIGN FLOW DEPTH CUT OR FILL SLOPE DIKE A___ DIKE B a-DIKE HEIGHT POSITIVE DRAINAGE SUFFICIENT TO DRAIN

b-DIKE WIDTH

c-FLOW WIDTH

d-FLOW DEPTH

CUT OR FILL SLOPE PLAN VIEW

A A A A A A

1. Seed and cover with straw mulch 2. Seed and cover with Erosion Control Matting or line with sod. 3. 4" - 7" stone ar recycled concrete equivalent pressed into the soil 7" minimum

Construction Specifications

FLOW CHANNEL STABILIZATION

GRADE 0.5% MIN. 10% MAX.

1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spat elevations may be necessary for grades less than 1%. 2. Runoff diverted from a disturbed area shall be conveyed to a sediment

3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a nan-erosive velacity.

4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.

5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.

6. Fill shall be compacted by earth moving equipment.

7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.

8. Inspection and maintenance must be provided periodically and after each rain event.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.

.S. DEPARTMENT OF AGRICULTUR

SOIL CONSERVATION SERVICE

2. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410.313.1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK. 3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES. (1 DAY)

4. INSTALL SILT FENCE. (2 DAYS) 5. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO

PROCEED, ROUGH GRADE SITE. (4 DAYS) 6. CONSTRUCT HOUSE, (4 MONTHS)

7. FINAL LOT GRADE TO BE IN SUBSTANTIAL CONFORMANCE WITH SITE DEVELOPMENT PLAN. (2 DAYS)

8. DURING GRADING AND AFTER EACH RAINFALL. THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN

9. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLIED

A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS. STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES SLOPES AND ALL SLOPES GREATER THAN 3:1.

10. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION DETAIL 30 - EROSION CONTROL MATTING

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

PROFILE

10' MINIMUM

PLAN VIEW

Construction Specification

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

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. ** The plan approval authority may not require single

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

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

leaving the site must travel over the entire length of the stabilized con-

where construction traffic enters or leaves a construction site. Vehicles

1. Length - minimum of 50' (* 30' for a single residence lot).

family residences to use aeotextile

MINIMUM 6" OF 2"-

LENGTH

AGGREGATE OVER LENGTH

'MINIMUM —

AND WIDTH OF STRUCTURE

- 50' MINIMUM

** GEOTEXTILE CLASS

- EXISTING GROUND

STANDARD SYMBOL

36"

STANDARD SYMBOL

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

A-2 B-3

→ -/-> -

'C' OR BETTER

BERM (6" MIN.)

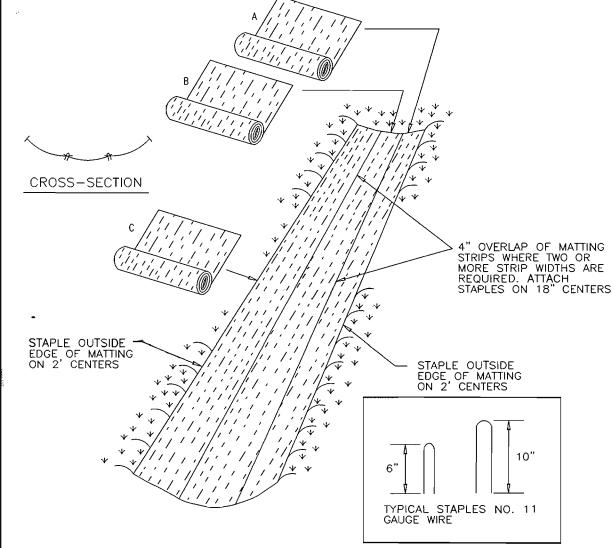
- PIPE AS NECESSARY

---- EARTH FILL

FXISTING

PAVEMENT

PAVEMENT



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

between staples. 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

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.

spaced 6" apart in a staggered pattern on either side.

SOIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

NO. REVISION DATE **RIVERSIDE ESTATES** LOT 3 SEDIMENT EROSION CONTROL DETAILS FIFTH ELECTION DISTRICT TAX MAP #41 GRID: 11 PARCEL 420 DEED REF: L1200/F.352 HOWARD COUNTY, MARYLAND 7125 RIVERWOOD DRIVE COLUMBIA, MARYLAND 21046-2354 410-720-6900 410-720-6226 fax REGIONAL OFFICES: FREDERICK WARD ASSOCIATES, INC. BEL AIR, MARYLAND AND WARRENTON, VIRGINIA ARCHITECTS ENGINEERS PLANNERS SURVEYORS www.frederickward.com

DETAIL 22 - SILT FENCE

POST LENGTH

EMBED GEOTEXTILE CLASS F -

INTO THE GROUND

SECTION B

A MINIMUM OF 8" VERTICALLY ____

Construction Specifications

1. Fence posts shall be a minimum of 36" long, driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood.

staples at top and mid-section and shall meet the following requirements

50 lbs/in (min.

20 lbs/in (min.)

75% (min.)

Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric

0.3 gal ft $\frac{1}{2}$ minute (max.)

Steel posts will be standard T or U section weighing not less than 1.00

2. Geotextile shall be fastened securely to each fence post with wire ties or

FLOW

10' MAXIMUM CENTER TO

— CENTER _

PERSPECTIVE VIEW

TOP VIEW

POSTS-

STAPLE

pound per linear foot

for Geotextile Class F

Tensile Strength

Filtering Efficiency

Tensile Modulus

Flow Rate

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

JOINING TWO ADJACENT SILT

FENCE SECTIONS

SECTION A

S" MINIMUM LENGTH FENCE POST,

6" MÍNIMUM HEIGHT OF

FENCE POST SECTION

UNDISTURBED

- GROUND

MINIMUM 20" ABOVE

- FENCE POST DRIVEN A

MINIMUM OF 16

STANDARD SYMBOL

-----SF ----

Test: MSMT 509

Test: MSMT 509

Test: MSMT 322

Test: MSMT 322

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

. THE GROUND

GROUND

GEOTEXTILE CLASS F

- 8" MINIMUM DEPTH IN

GROUND

CROSS SECTION

FILTER

DRIVEN A MINIMUM OF 16" INTO

OF MAR. HARRIO

ROBERT H. VOGEL, PE No.1619

CHECKED BY: JUNE, 2003 AS SHOWN 2024052.00

SHEET OF

SDP-04-003

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

ENGINEERS CERTIFICATE

"I 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 DISTRICT. 11/18/0> Don't good SIGNATURE OF ENGINEER DATE ROBERT H. VOGEL

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, 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. SIGNATURE OF DEVELOPER

AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION DRFIN GIKORGKI

DEVELOPER'S CERTIFICATE

im Mym RESOURCES CONSERVATION SERVICE HIS DEVELOPMENT PLAN APPROVED FOR SOIL EROSION AND THE HOWARD SOIL CONSERVATION DISTRICT u/26/03

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION

PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE 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

. 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

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 THI REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

 TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

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 A 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 THAT 1 AND 1/2" IN

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.

II. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGÉTATIVE STABILIZATION -SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

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

FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE PH TO 6.5 OR HIGHER. B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN

ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST

1.5 PERCENT BY WEIGHT. 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 SOIL WHICH

HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS

USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS LAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED Y A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY

THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMMENDMENTS SPECIFIED IN 20.0 VÈGETATIVE STABILIZATION-SECTION I-VEGETATIVE

V. TOPSOIL APPLICATION

STABILIZATION METHODS AND MATERIALS.

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 PLACE 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 SEEDBED PREPARATION.

NOTES

SEE "LANDSCAPE SPECIFICATION GUIDLINES FOR BALTIMORE-

WASHINGTON METROPOLITAN

PRODUCT, AND PROCEDURE

2. SEE "LANDSCAPE GUIDLINES"

PARALLEL TO WALKS &

KEEP MULCH 1" FROM TRUN

PLACE UPRIGHT STAKES

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE

COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

 PREFERRED-APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/ 100 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./ 1000 SQ.FT.) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL, AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.)

2) ACCEPTABLE-APPLY 2 TONS PER ACRE DOLOMATIC LIMESTONE (92 LBS/ 1000 SQ.FT.) AND APPLY 1000 LBS. PER ACRE 10-10-10- FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE .05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF CTOBER 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

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 ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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 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./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.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

-LEADER MUST REMAIN INTACT FOR SUPPORTING TREES LARGER THAN 2-1/2" CALIPER. - 2 STRANDS OF GALVINIZED UPRIGHT STAKES- SET IN RUBBER HOSE CUT BURLAP & ROPE FROM -3" DEPTH MULCH 2" EARTH SAUCER FINISH GRADE -1/8 DEPTH OF BALL -PLANTING MIX- SEE PLANTING

TREE PLANTING AND STAKING DECIDUOUS AND EVERGREEN TREES UP TO 3" CALIPER

NOT TO SCALE

-LOOSENED SUBSOIL

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. AND REVISIONS THERETO. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY

STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER

AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY

- SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, (8) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED
- DESIGN MANUAL, STORM DRAINAGE. 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND
- 6. 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 CONTROL INSPECTOR.
- 7 SITE ANALYSIS

ESTABLISHMENT OF GRASSES.

| OFFSITE WASTE/BORROW AREA LOCATION | * |
|------------------------------------|-----------|
| TOTAL FILL | 696 CY |
| TOTAL CUT | 696 CY |
| AREA TO BE VEGETATIVELY STABILIZED | 12,340 SF |
| AREA TO BE ROOFED OR PAVED | 1,171 SF |
| AREA DISTURBED | 13,511 SF |
| TOTAL AREA | 23,720 SF |

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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 BEFORE 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- . TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT

SCHEDULE A PERIMETER LANDSCAPE EDGE

| CATEGORY | ADJACENT TO ROADWAYS (FRONT) | ADJACENT TO ROADWAYS (SIDE) |
|--|------------------------------------|-----------------------------------|
| PERIMETER | P-1 | P-2 |
| LINEAR FEET OF PERIMETER EDGE | 183 | 145 |
| LANDSCAPE TYPE | NONE REQUIRED | TYPE 'B' |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NA | NO |
| CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NA | NO |
| NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS | NA NA NA | 3 4 0 |
| NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED) | NA NA NA NA | 3 4 0 0 |

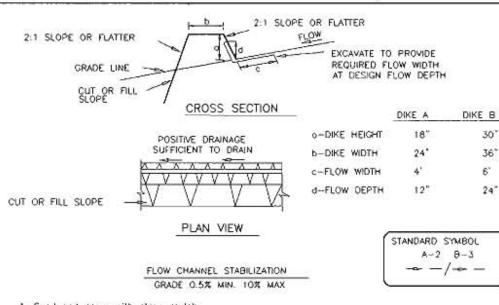
DRELL SKORSKI

DEVELOPER'S/BUILDER'S CERTIFICATE

VILL CORTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUSPIVISION AND LAND DEVICLOPMENT REGILLATIONS AND THE LANDSCAPE MANUAL, I/WE CERTIFY THAT UPON COMPLETION A LETTER OF NOTICE ACOMPANIED BY AN EXECUTED ON EYEAR GUARANTÉE OF FLANT MATERIALS WILL BE GUBHITTED PLANNING AND ZONING

BOTANICAL NAME/ COMMON NAME ROOT SIZE ACER RUBRUM 'OCTOBER GLORY'/ 2 1/2"-3" CAL B & B RED MAPLE PINUS STROBUS/ 6'-8' HT. EASTERN WHITE PINE

DETAIL 1 - EARTH DIKE



1. Seed and cover with straw mulch. 2. Seed and cover with Erasion Control Matting or line with sad. 3. 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum

Construction Specifications

- 1 All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot devations may be necessary for grades less than 1%,
- 2. Runoff diverted from a disturbed area shall be conveyed to a sediment tropping device.
- 3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- 4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper
- 5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criterio specified herein and be free of bank projections or other irregularities which will impede normal flow
- 6. Fill shall be compacted by earth moving equipment
- 7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.

8. Inspection and maintenance must be provided periodically and after

MARYLAND DEPARTMENT OF ENVIRONMENT A - I - 6 WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- 2. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410.313.1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- 5. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO
- 8. DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN
- 9. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLIED
 - A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS. STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES
- SLOPES AND ALL SLOPES GREATER THAN 3:1. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL

- 3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES. (1 DAY)
- 4. INSTALL SILT FENCE. (2 DAYS)
- PROCEED, ROUGH GRADE SITE. (4 DAYS) 6. CONSTRUCT HOUSE, (4 MONTHS)
- 7. FINAL LOT GRADE TO BE IN SUBSTANTIAL CONFORMANCE WITH SITE DEVELOPMENT PLAN. (2 DAYS)
- SEDIMENT CONTROL DEVICES.

DETAIL 30 - EROSION CONTROL MATTING

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

PROFILE

MINIMUM

PLAN VIEW

Construction Specification

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

Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone.
 The plan approval authority may not require single

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

5. Surface Water - all surface water flowing to or diverted toward construction

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. Vehicle's leaving the site must travel over the entire length of the stabilized con-

entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected

1. Length - minimum of 50' (* 30' for a single residence lot).

family residences to use geotextile.

MINIMUM 6" OF 2"

50' MINIMUM —

LENGTH

AGGREGATE OVER LENGTH

AND WIDTH OF STRUCTURE

- 50' MINIMUM

** GEOTEXTILE CLASS

- EXISTING GROUND

STANDARD SYMBOL

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

SCE SCE

BERM (6" MIN.)

PIPE AS NECESSARY

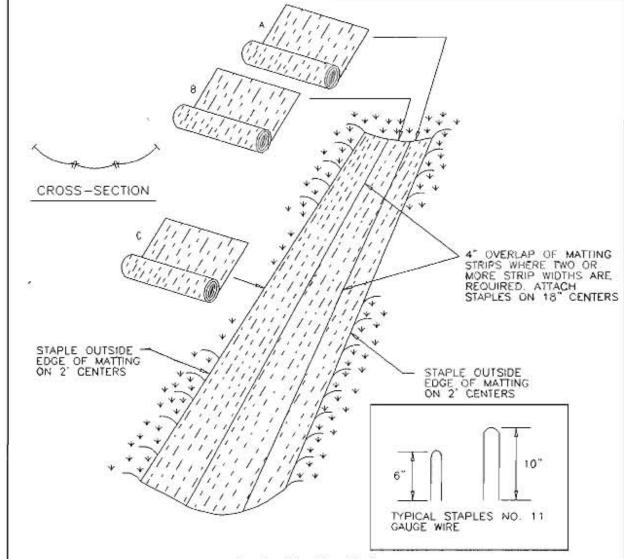
MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

- EARTH FILL

PAVEMENT

PAVEMENT



Construction Specifications

- Key-in the matting by placing the top ends of the matting in a norrow trench, 6" in depth. Bockfill the trench and tomp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between stoples is 6".
- 2. Stople the 4" overlop in the channel center using on 18" specing between stoples.
- 3. Before stapling the outer edges of the motting, make sure the motting is smooth and in firm contact with the soil. 4. Stoples shall be placed 2' aport with 4 rows for each strip, 2
- 5. Where one roll of matting ends and another begins, the end of the top strip shall overlop the upper end of the lower strip by 4", shiplop foshion. Reinforce the overlop with a double row of stoples spaced 6" oport in a staggered pattern on either side.
- 6. The discharge end of the motting liner should be similarly secured with 2 double rows of stoples.

outer rows, and 2 alternating rows down the center.

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 PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

RIVERSIDE ESTATES LOT 3

REVISION

SEDIMENT EROSION CONTROL DETAILS

TAX MAP #41 GRID: 11 PARCEL 420 DEED REF: L1200/F.352

DETAIL 22 - SILT FENCE

10' MAXIMUM CENTER TO

— CENTER

PERSPECTIVE VIEW

TOP VIEW

POSTS-

STAPLE?

JOINING TWO ADJACENT SILT

FENCE SECTIONS

Tensile Strength

Tensile Modulus

Filtering Efficiency

Flow Rate

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

NO.

SECTION A

36" MINIMUM LENGTH FENCE POST, DRIVEN A MINIMUM OF 16" INTO

MINIMUM HEIGHT OF

GROUND

FENCE POST SECTION

UNDISTURBED

GROUND

MINIMUM 20" ABOVE

FENCE POST DRIVEN

MINIMUM OF

THE GROUND

STANDARD SYMBOL

Test: MSMT 509

Test: MSMT 509

Test: MSMT 322

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

Test: MSMT 322

GEOTEXTILE CLASS F

- 8" MINIMUM DEPTH IN

GROUND

CROSS SECTION

CROUND

" MINIMUM FENCE-

FLOW

POST LENGTH

EMBED GEOTEXTILE CLASS F -

INTO THE GROUND

SECTION E

A MINIMUM OF 8" VERTICALLY

Construction Specifications

Fence posts shall be a minimum of 36" long, driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood.

Steel pasts will be standard T or U section weighing not less than 1.00

20 lbs/in (min.)

0.3 gal ft '/minute (max.)

Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements

75% (min.)

Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

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

bulges occur or when sediment accumulation reaches 50% of the fabric

7125 RIVERWOOD DRIVE COLUMBIA, MARYLAND 21046-2354 410-720-6900 410-720-6226 fox

REGIONAL OFFICES: FREDERICK WARD ASSOCIATES, INC. BEL AIR, MARYLAND AND WARRENTON, VIRGINIA ARCHITECTS ENGINEERS PLANNERS SURVEYORS www.frederickword.com

OF MARY DESIGN BY: CHECKED BY:

ROBERT H. VOGEL, PE No.16193

ELW JUNE, 2003 AS SHOWN 2024052.00

SHEET _

FIFTH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

ENGINEERS CERTIFICATE

"I 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 DISTRICT.

Bert BOOK 11/18/0> SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

DREIJ GIKORGKI

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS 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.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS im Mym USDA-NATURAL RESOURCES CONSERVATION SERVICE DEVELOPMENT PLANTAPPROVED FOR SOIL EROSION AND THE HOWARD SOIL CONSERVATION DISTRICT 4/26/03 DATE

