







For supplemental notes & specifications p. 14.03, "Stabilized Construction Entrance"

GRAVEL FILTER No Scole

TEMPORARY SEEDING NOTESS Apply to graded or clesared areas likely to be redisturbed where a

short-term vegetative cover is needed. Seedbed Preparation: Loosen upper three inches of soil by raking, dising or other acceptiable means before seeding. Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 21 bushel per acre of annual rye (3.2 1bs/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 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  $1\frac{1}{2}$  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 gal: per acre (5 gal/1000 sq. ftr) of emulsified asphalt on flat areas: On slope\*; 8 ft. or higher; use 348 gal: per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

### SODDING

Site Preparation Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown below.

Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre of 100 pounds per 1,000 square feet. In all soils 1,000 pounds per acre of 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the

All areas receiving sod shall be uniformily fine graded. Hard-packed earth shall be scarfied prior to placement of sod.

During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod. The first row of sod shall be laid in a straight line with subsequent rows placed paralled to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.

On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by temping and pegging or other approved methods. As sodding is completed in any one section, the entire area shall be rolled or tamped and watered immediately.

In the absence of adequate rainfall, watering shall be performed daily or as often as necessary to prevent wilting. First mowing should not be attempted until sod is firmly rooted.

No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.

### MULCHING

### Materials and Amounts

Straw - Straw shall be unrotted small grain applied at the rate of 12 to 2 tons per acre, or 70 to 90 pounds per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds such as: thistles, Johnsongrass and quackgrass.

Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately foot section and place 70-90 pounds of mulch (two bales) in each

Mulch mattings such as jute or excelsior blanket shall be stapled to the surface in waterways and on steep slopes. Lighter materials of paper, plastic and cotton mulch mattings may be used where erosion haxard is not severe. If area is to be moved, do not use metal

Wood chips at the rate of approximately 6 tons per acre or 275 pounds per 1,000 square foot may be used when available and when feasible

Mulch anchoring spall be accomplished immediately after mulch placement 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, erosion hazard, and cost. On sloping land, practice No. 1 below, should be done on the contour wherever possible, except "tracking" should be done up and down the slope with 13 inch cleat marks running across the slope.

1. Mulch Anchoring Tool and Tracking - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of soil.

2. Mulch Nettings - Staple lightweight biodegradable paper, plastic or cotton nettings. 3. Liquid Mulch Binders - Application of liquid binders should

be heavier at edges where wind catches mulch, in valleys, and at crests of banks; and shall be cutback asphalt, emulsified asphalt of cynthetic binders.

# GENERAL SEDIMENT CONTROL NOTES

- 1. All work shall be in accordance with "1983 ND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
- 2. All site work to be per sequence of construction given herein.
- 3. Stabilize the perimeter dikes by seeding and mulching.
- 4. Only the area of immediate construction to be disturbed.
- 5. Periodic inspection and maintenance of all sediment control structures must be provided to insure intended purpose is accomplished.
- 6. At the end of each working day, check all sediment control measures for integrity and operation.
- 7. All surface run-off to be directed into the silt traps, no sediment must be allowed to leave the site.
- 8. Silt traps shall be cleaned out when sediment reaches prescribed elevation.
- 9. A. The developer is responsible for the acquisition of all required easements, right, and/or right-of-way pursuant to the discharge from the sediment and erosion control practices, storm water management practices and the discharge of storm water onto or across and grading or other work to be performed on adjacent or downstream properties affected by this plan.
  - B. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a). Seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 2 horizontal to 1 vertical (3:1) and b). Fourteen days as to all other disturbed of graded areas on the project site. The inplace sediment control measures will be maintained on a continuing basis until the site is . permanently stabilized and all permit requirements are met.
  - C. 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 by the inspection agency is made; and
  - D. Approval shall be requested upon final stabilization of all site with disturbance areas in excess of 2 acres before removal or controls.
- 10. All borrow or spoil to be at a source with an approved sediment control plan.
- 11. Use mulch only during non-seeding periods.

## SPECIAL SEDIMENT CONTROL NOTES

Total Fill

- 1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction.
- 2. 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.
- 3. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (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.
- 4. 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.
- 5. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 6. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 7. Notify "Miss Utility" at 559-0100 before beginning the construction.

Site Analysis: Total Area of Site Area Disturbed Area to be roofed or paved Area to be vegetatively stabilized Total Cut

9.973 Acres 0.582 Acres 0.338 Acres 0.244 Acres Cu. yds. 582 Cu. yds. 600 Approved site

Offsite waste/borrow area location Should additional fill be required beyond the above quantities, contractor is to provide at no additional cost to the owner.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPART-MENT.

HOWARD COUNTY OFFICE OF PLANNING

AND ZONING. 12.22 8

DEVELOPMENT AND ZONING ADM. APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE,

STORM DRAINAGE SYSTEMS AND PUBLIC HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

12. ... 87 CHIEF, BUREAU OF ENGINEERIN

BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CON-STRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDI-MENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSER-VATION DISTRICT OR THEIR AUTHORIZED AGENTS,

AS ARE DEEMED NECESSARY."

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIRMENTS OF THE HOWARD SOIL CONSER-

VATION DISTRICT.

PLAN NUMBER

HOWARD REVIEWED FOR

AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE U.S. SOIL CONSERVATION SERVICE

> OIVISION OF INC ZUNING JIMA 11-27-87

SEDIMENT CONTROL DETAILS ADDITION TO ST. JOHN'S LANE ELEMENTARY SCHOOL PARCEL 115, BLOCK\* 16/22, 2NO ELEC. DIST.



HOWARD COUNTY, MARYLAND DRAWING PENKIUNAS & ASSOCIATES 1987 Aua. OWNER - DEVELOPER HOWARD COUNTY BD. OF EDUC. SCALE: 8855 ANNAPOLIS RD. No Scale LANHAM, MD. 20706 10910 RT. 108 JOB NO. 301-577-5053 ELLICOTT CITY, MD 21043 8709 992-0500 REVISIONS SDP.88.31