

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Engineering
 DATE: 12-2-85

APPROVED: OFFICE OF PLANNING AND ZONING
 Chief, Division of Land Development and Zoning Administration
 DATE: 12-4-85

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 Soil Conservation Service
 DATE: 12-4-85

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE: 12-4-85

PERMANENT SEEDING NOTES

- A minimum of 30 hours notice must be given to the Howard County Office of Inspection and Permit prior to the start of any construction. (902-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, silt traps and all slopes greater than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/ditches shown to be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 22, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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. 31) and (Sec. 34), temporary seeding (Sec. 30) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding data 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 notification for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 Total Area of Site: 6.8 Acres
 Area Disturbed: 2.01 Acres
 Area to be seeded or covered: 4.79 Acres
 Area to be vegetatively stabilized: 0.76 Acres
 Total Cut: 20 Cu. Yds.
 Total Fill: 0 Cu. Yds.
 Office waste/borrow area location: N/A
- Any sediment control practice which is disturbed by routine activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be required upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other buildings or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeding Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (82 lbs/1000 sq ft) and 500 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 urethane fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (82 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil.

Seeding: For 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 (0.5 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 of well anchored straw mulch and seed as soon as possible to the spring. Option (2) Use seed. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (3 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 3 1/2 gal per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

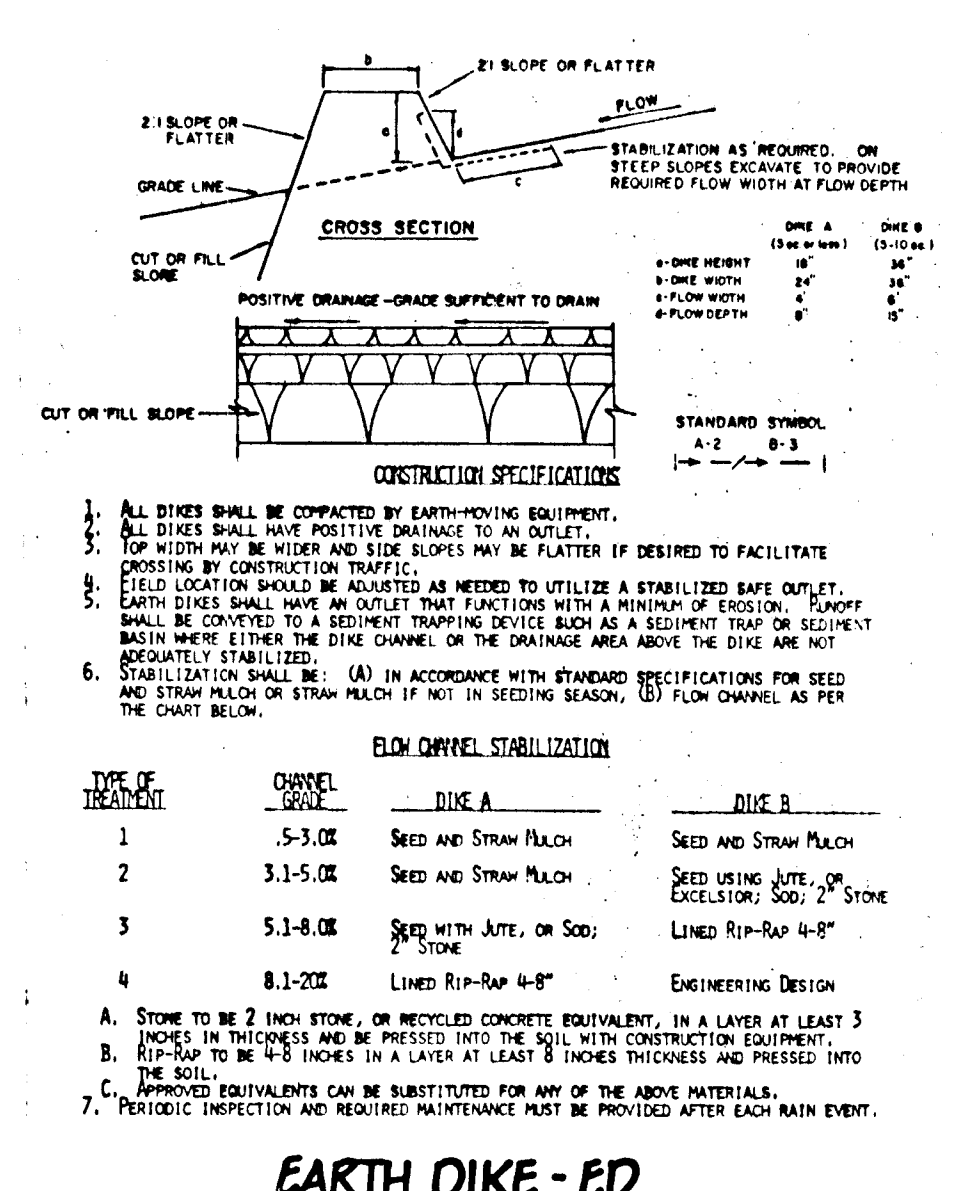
Seeding Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 400 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 7 1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 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 seed.

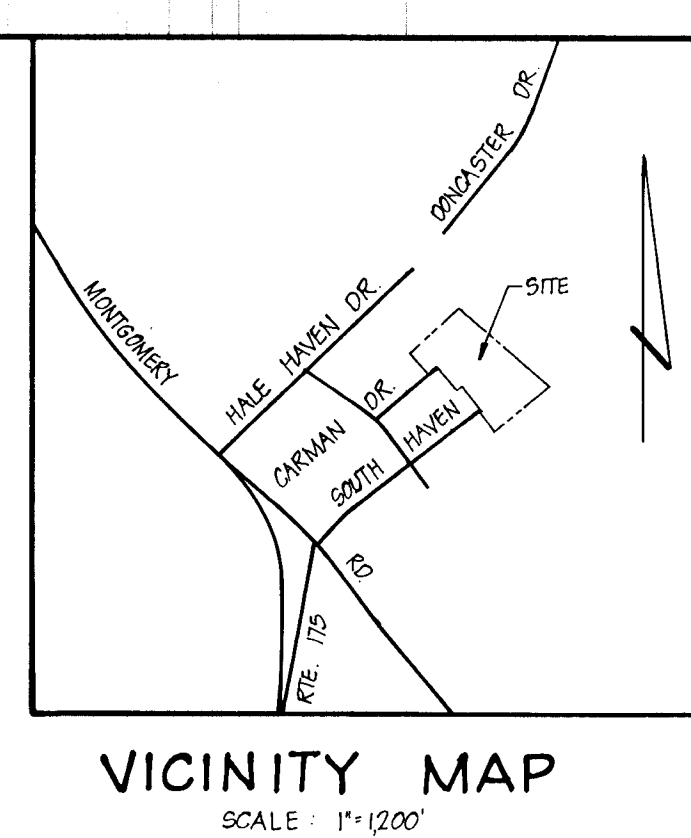
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Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



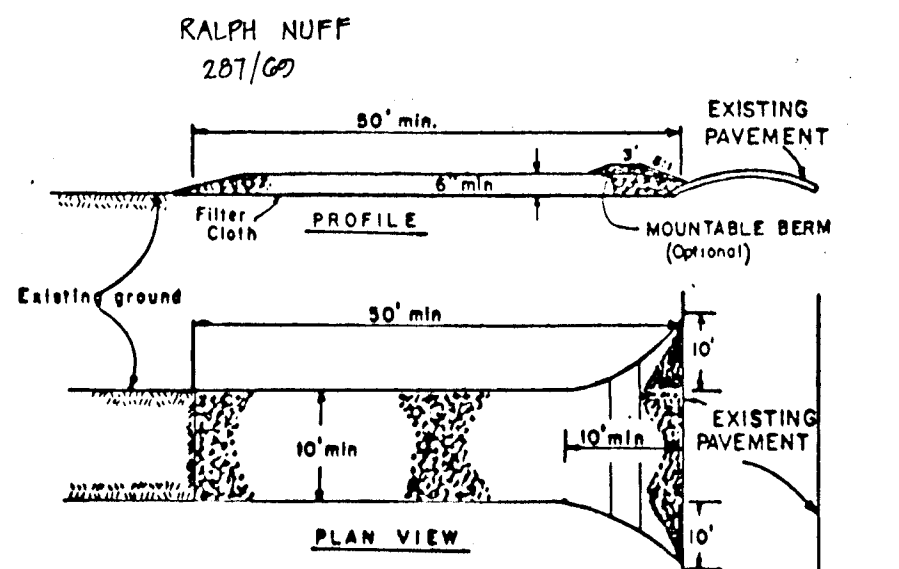
CONSTRUCTION SEQUENCE

- OBTAIN GRADING PERMIT.
- NOTIFY THE HOWARD CO BUREAU OF LICENSES, INSPECTIONS, PERMITS AND THE CONSTRUCTION INSPECTIONS DIVISION @ 702-7872 AT LEAST 24 HOURS PRIOR TO BEGINNING GRADING OPERATIONS.
- INSTALL TEMPORARY SEDIMENT CONTROL MEASURES (S.C.E., S.F., AND E.D.) - 1 DAY
- ROUGH GRADE. STABILIZE AREA TO BE PAVED WITH BASE COURSE. STABILIZE ALL OTHER DISTURBED AREAS WITH TEMPORARY STABILIZATION - 2 DAYS
- PAVE ROAD - 1 DAY
- FINISH GRADE. APPLY PERMANENT STABILIZATION MEASURES TO ALL DISTURBED AREAS - 2 DAYS
- REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITH APPROVAL OF THE HOWARD CO BUREAU OF LICENSES, INSPECTIONS AND PERMITS.



GENERAL NOTES

- TAX MAP: 31 PARCEL: 5TG
- DEED REFERENCE: 1111/489
- EX. ZONING: R-20
- PROP. SITE USE: SINGLE FAMILY DETACHED RESIDENCES
- TOTAL AREA OF SITE: 6.8 AC.
- TOTAL NUMBER OF LOTS: 10
- TOTAL AREA OF LOTS: 4.2 AC.
- TOTAL AREA OF ROAD DEDICATION: 0.4 AC.
- TOTAL AREA OF OPEN SPACE: 1.4 AC. (INCLUDES 1/2 OF FLOODPLAIN)
- CARMAN AND SOUTH HAVEN DRIVES ARE EXISTING, PUBLIC ROADS
- PUBLIC WATER AND PUBLIC SEWER ARE TO BE UTILIZED
- SEDIMENT CONTROL MEASURES WILL BE PROVIDED ON FINAL CONSTRUCTION PLANS
- TOPOGRAPHY AND BOUNDARY SHOWN HEREON WAS FIELD RUN BY BOENDER ASSOCIATES, INC.



CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 3" stone, or recycled or recycled concrete equivalent.
- Length - As required, but not less than 30 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress of water occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with 3:6 slopes will be provided.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

OWNER & DEVELOPER
 ORCHARD RIDGE JOINT VENTURE
 BOENDER ASSOCIATES, INC.
 3525 COURTHOUSE SQUARE - SUITE A
 BILLCOTT CITY, MD. 21045

ENGINEER'S CERTIFICATE

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

ENGINEER: *Walter Down* DATE: 12-2-85

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

DEVELOPER: *Charles E. Vogt* DATE:

TITLE: FLOODPLAIN STUDY & DRAINAGE AREA MAP						
PROJECT: ORCHARD RIDGE - SECTION 2						
LOCATION: 2ND ELECTION DISTRICT TAX MAP 31 HOWARD COUNTY, MD.						
DATE	SCALE	DESIGN BY	DRAWN BY	CHECKED BY	APPROVED BY	JOB NO.
12-2-85	1" = 50'	2/8	2/8	2/8	2/8	82020

boender associates engineers, surveyors, planners
 TOWN & COUNTRY PROFESSIONAL BUILDING, SUITE 101, 107 ELLICOTT CITY, MARYLAND 21043 301-465-7777