#### SEDIMENT AND EROSION CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313–1855).
- 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 1994 MARYLAND STANDARDS AND SPECS.
- 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 stuctures,
- project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol.1, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm

dikes, perimeter slopes and all slopes greater than 3:1

b) 14 days as to all other disturbed or graded areas on the

- 5. All disturbed areas must be stabilized within the time period specified above, in accordance with the 1994 MARYLAND STAND-ÁRDS AND SPÉCIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, sod, temporary seeding and mulching (Sec G). Temporary stabilization with mulch alone can only be done when
- and establishment of arasses. 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

recommended seeding dates do not allow for proper germination

- Control Inspector. 7. SITE ANALYSIS:
  - Total Area of Site: Area Disturbed: Area to be roofed or paved: Area to be vegetatively stabilized: 216 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 control must be provided, I deemed necessary 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 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
- 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.
- 12. The total amount of silt fence = 13. The total amount of super silt fence =
- \* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

#### CONSTRUCTION SEQUENCE:

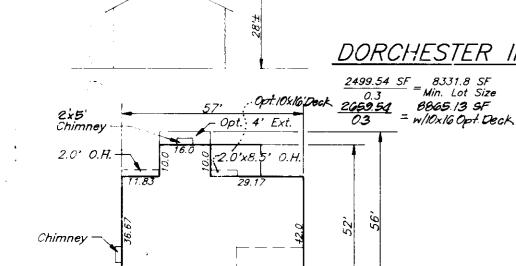
- Obtain grading permit. Install tree protection fence. Install sediment and erosion control devices and stabilize.
- 4. Excavate for foundations, rough grade and temporarily stabilize. \_ 5. Construct structures, sidewalks and driveways. 6. Final grade and stabilize in accordance with Stds. and Specs. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.
- \* Delay construction of houses on lots:

### DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE - 50' MINIMUM - ---- EARTH FILL PIPE AS NECESSARY \*\* GEOTEXTILE CLASS -MINIMUM 6" OF 2"-- 3" AGGREGATE OVER LENGTH AND WIDTH OF STRUCTURE - EXISTING GROUND PROFILE — + 50° MINIMUM ------SCE

- . Length minimum of 50' (\* 30' for a single residence lot). 2. Width -- 10' minimum, should be flared at the existing road to provide a
- 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 the entronce.
- 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.

# Location — A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized con-struction entrance.

## U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE 7 - 17 - 3 WATER MANAGEMENT ADMINISTRATION



APPROVED: DEPARTMENT OF PLANNING AND ZONING 7/24/97

#### 21.0 STANDARDS AND SPECIFICATIONS

#### <u>FOR</u> **TOPSOIL**

establishment of permanent vegetation. <u>Purpose</u>

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.

Definition

Placement of topsoil over a prepared subsoil prior to

1. This practice is limited to areas having 2:1 or flatter

Conditions Where Practice Applies

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. 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 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

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 ivv. 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:

PERSPECTIVE VIEW

JOINING TWO ADJACENT SILT

FENCE SECTIONS

Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section | - Vegetative Stabilization Methods and Materials

DETAIL 22 - SILT FENCE

Construction Specifications

. Fence posts shall be a minimum of 36" long, driven 18" 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 posts will be standard T or U section weighing not less than 1.00 pound per linear foot.

S. DEPARTMENT OF AGRICULTURS PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE I - 15 - 3 VATER MANAGEMENT ADMINISTRATION

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

- 36° MINIMUM LENGTH FENCE POS

CROSS SECTION

STANDARD SYMBOL

\_\_\_\_\_SF \_\_\_\_\_

#### 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:

1) Preferred-Apply 2 tons per acre dolomitic limestone (92 ibs/ 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.)

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

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.

(.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons

d. No sod or seed shall be placed on soil soil which 2) Acceptable-Apply 2 tons per acre dolomatic limestone (92 lbs/ 1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10- fertilizer has been treated with soil sterilants or chemicals used for weed control until sufficient time has (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper elapsed (14 days min.) to permit dissipation of three inches of soil. phyto-toxic materials. NOTE: Topsoil substitutes or amendments, as recommended 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

by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil, ii. Place topsoil (if required) and apply soil ammendments specified in 20.0 Vegetative Stabilization-Section I-Vegetative Stabilization Methods and Materials.

iii. For sites having disturbed areas over 5 acres:

i. On soil meeting topsoil specifications, chtain test

the tested soil demonstrates a pH of less than

6.0, sufficient lime shall be prescribed to raise

the pH to 6.5 or higher.
b. Organic content of topsoil shall be not less than 1.5 percent by weight.

c. Topsoil having soluble salt content greater than

500 parts per million shall not be used.

results dictating fertilizer and lime amendments required

to bring the soil into compliance with the tollowing: a. pH for topsoil shall be between 6.0 and 7.5. If

#### V. Topsoil Application

or water pockets.

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"

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

ANCHOR POSTS SHOULD BE

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.

HIGHLY VISABLE FLAGGING

MAXIMUM 8 FEET

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1. Forest protection device only.
2. Retention area will be set as part of the review process.
3. Boundaries of retention area should be staked and flagged prior to installing device.
4. Roof damage should be avoided.
5. Protection signage should be used.
6. Device should be maintained throughout construction.

BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL

- ANCHOR POSTS MUST B

SEEDBED PREPARATION: Loosen upper three inches of soil by raking 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 ty 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.

TEMPORARY SEEDING NOTES

SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

20' DRAINAGE & UTILITY -

EASEMENT

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR

#### LEGEND

CONTOUR INTERNAL EXISITNG CONTOOR PROPOSED CONTOUR DIRECTION OF DRAINAGE WALK OUT BASEMENT SPOT ELEVATION

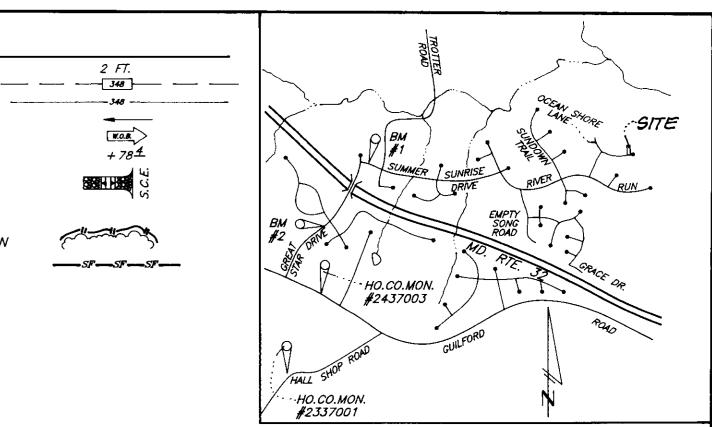
STABILIZED CONSTRUCTION LIMIT OF DISTURBED AREA TREE PROTECTION FENCE EXISTING TREES TO REMAIN SILT FENCE

2 FT.

--- 348 --

W.O.A

+ 78<u>4</u>



VICINITY MAP Scale : 1"=2000'

	ADDRESS CHART							
LOT	NUMBER	STREET ADDRESS						
	233	6517	OCEAN	SHORE	LANE			

### GENERAL NOTES

- 1. Subject property is zoned: N.T.S.F.M.D. per 10-18-93
- Comprehensive Zoning Plan.
- 3. The total number of lots included in this submission is: 1
- 4. Improvement to property: Single Family Detached
- 5. The maximum lot coverage permitted is: 30%
- 7. Utilities shown as existing are taken from approved Water and
- Sewer plans Contract # 34-3576-D , approved Road Construction plans F-97-125, and actual field survey.
- 8. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- 9. All roadways are public and existing.
- 10. The existing topography was taken from Road Construction plans F-97-125 prepared by Riemer, Muegge & Associates, Inc.,
- 11. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos.: 2337001 and 2437003.
- Division of Construction Inspection at (410) 313-1880 at
- 13. The contractor shall notify "Miss Utility" at 1-800-257-7777

- 17. No clearing, grading or construction is permitted within Wetlands
- Stream Crossings. Water Quality is provided by publicly owned

OWNER / DEVELOPER

### SPECIAL NOTES

This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans F-97-125 and/or approved Water and Sewer Plans Contract #34-3576-D.

SUBDIVISION NAME				SECTION/AREA		LOTS,	/PARCELS	
COLUMBIA VILLAGE OF RIVER HILL				TWO/SIX			233	
PLAT NO.	BLOCK NO.	ZONE	TA	X MAP NO.	ELE	CTION DIST.	CENSUS TRACT	
12835	15	NTSFMD		35		5+h	6055	
WATER CODE	•		9	SEWER CODE				
<i>I</i> –12				6652500				

## **ENGINEERS • PLANNERS • SURVEYORS**

7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.

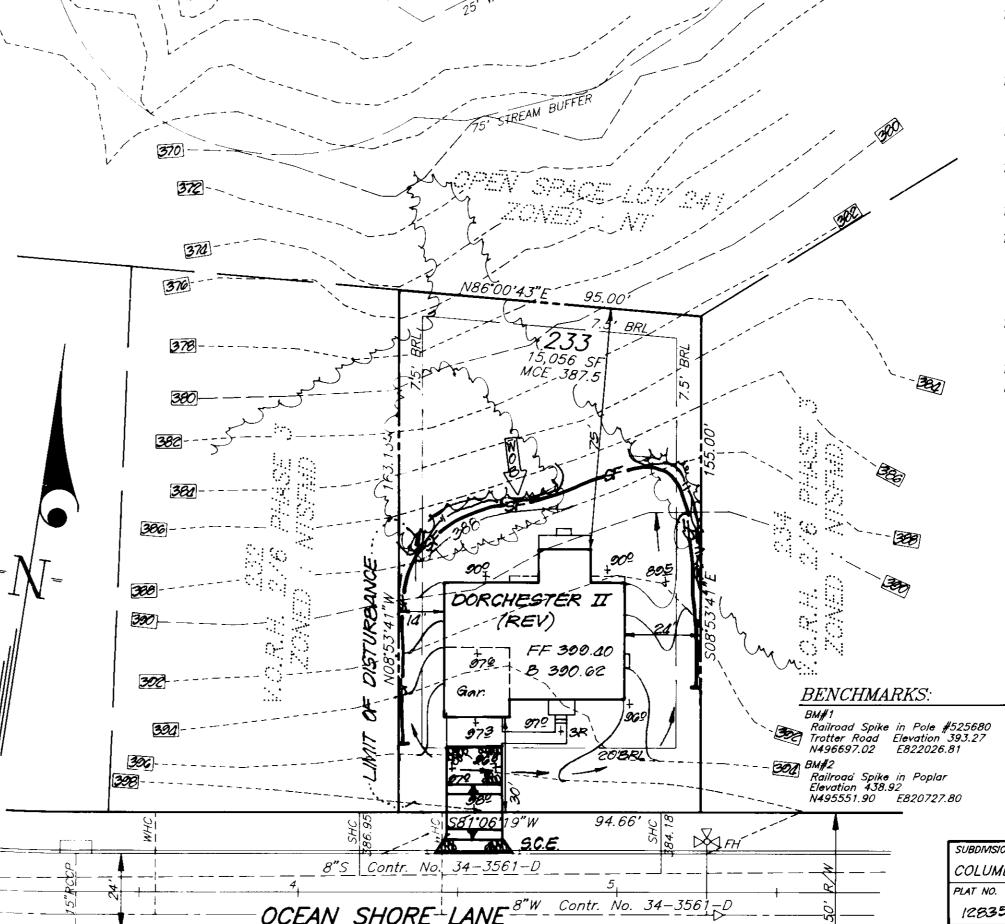
DESIGNED	SITE DEVELOPMENT, SEDIMENT & EROSION CONTROL PLAN	SCALE
JME	LOT 233	1"=30
DRAWN		DRAWIN
PS	VILLAGE OF RIVER HILL	1 of
CHECKED	SECTION 2 AREA 6 PHASE 3 FIFTH (5th) ELECTION DISTRICT	JOB NO
jnes	HOWARD COUNTY, MARYLAND	97-04
DATE	FOR : WILLIAMSBURG BUILDERS P.O. Box 1018	FILE NO.

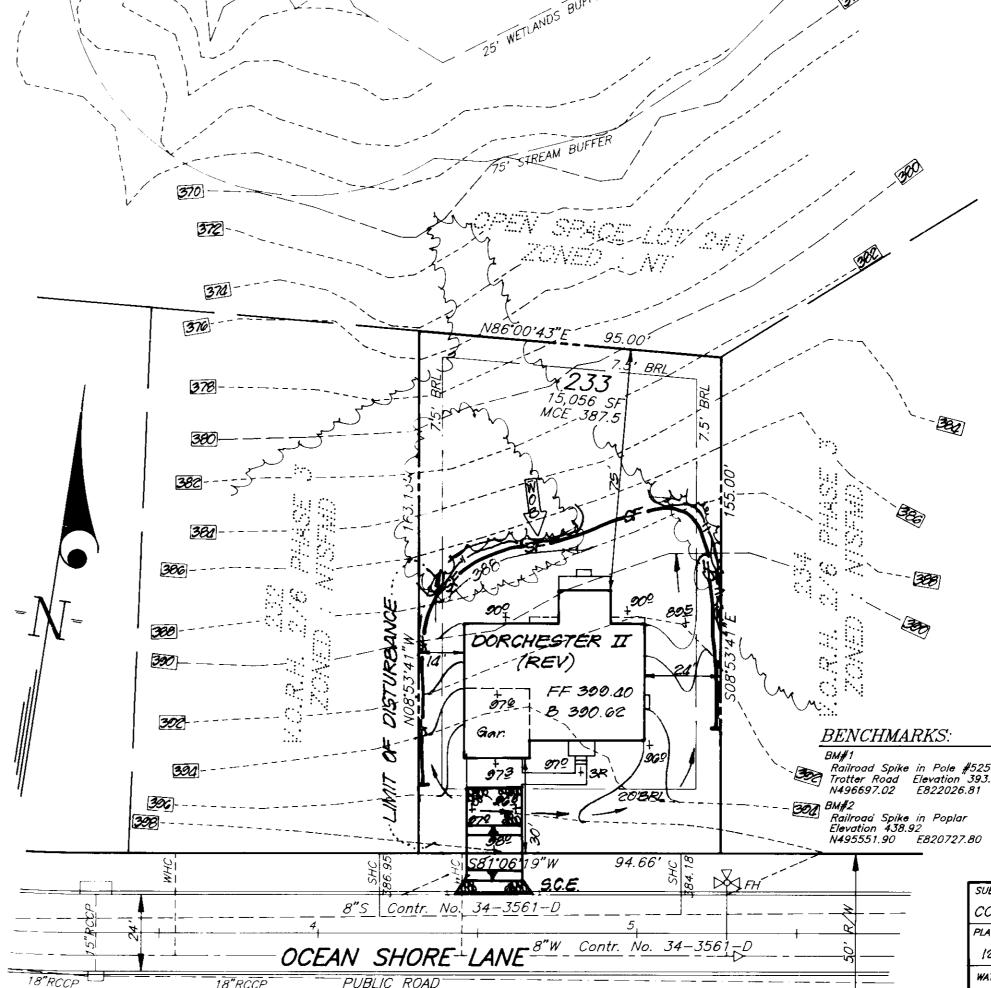
## DEVELOPER'S/BUILDER'S CERTIFICATE

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

plan based on my personal knowledge of the site conditions and that it was prepared in accordance

ENGINEER'S CERTIFICATE I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable with the requirements of the Howard Soil Conservation





"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and

necessarv'

Reviewed for HOWARD and meets Technical Requirements Signature Date U.S. Natural Resources Conservation Service

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

97-046X

2. The total area included in this submission is: 0.35 Acres 6. Department of Planning and Zoning reference file numbers are: S-91-03, P-95-17, F-96-98, F-96-138, SP-96-12, F-07-125

in January 1997.

12. The contractor shall notify the Department of Public Works/ least twenty-four (24) hours prior to the start of work.

at least 48 hours prior to any excavation work. 14. For driveway entrance details, refer to Ho. Co. Design Manual Volume IV details R-6.05.

15. Stormwater Management is provided per : F-96-138

16. In accordance with FDP-Phase 209 Part VI, bay windows or chimneys not more than 10 feet in width may project not more than 4 feet into any setbacks; porches and decks may project not more than 3 feet into the front or rear setbacks.

and Stream Buffers or Forest Conservation Easements. 18. SHC elevations shown are located at the property line.

THE HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

**CLARK • FINEFROCK & SACKETT, INC.** 

Columbia, Maryland 21044

50P 97-156

Stormwater Management Quantity Control is provided by the Md. Rte. 32