SEDIMENT CONTROL NOTES

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. (992-2437)
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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
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 project site.
4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chaper 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5) 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.
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 of Site	0.372	Acres
Area Disturbed	0.30	Acres
Area to be roofed or paved	0.10	Acres
Area to be vegetatively stabilized	0.20	Acres
Total Cut	116	Cu. Yd.
Total Fill	65	Cu. Yd.
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, if 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 made.
11) If houses are to be constructed on an "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
12) All pipes to be blocked at the end of each day (see detail below).
13) The total amount of straw bale dikes/silt fence equals 300 L.F.

* 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 its grading permit number at the time of construction.

CONSTRUCTION SEQUENCE:

	No. of Days
A. OBTAIN GRADING PERMIT AND INSTALL SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE.	7
B. GRADE AS NECESSARY FOR CONSTRUCTION OF BASEMENT SLABS, SIDEWALKS, DRIVEWAYS AND TEMPORARILY STABILIZE.	14
C. CONSTRUCT STRUCTURES, SIDEWALKS AND DRIVEWAYS.	60
D. FINAL GRADE AND STABILIZE IN ACCORDANCE WITH STDS. AND SPECS.	14
E. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT AND EROSION CONTROLS AND STABILIZE.	7

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/1000 square 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 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 dolomitic limestone (92 lbs/1000 sq ft) and 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 thre 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 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 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 straw.

Mulching - Apply 1½ 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

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

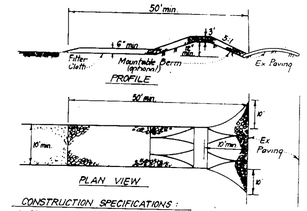
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: 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 2½ 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 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 1½ 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 ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

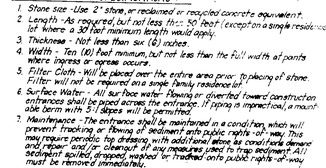
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



CONSTRUCTION SPECIFICATIONS:

1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) feet minimum, but not less than the full width of points where ingress or egress occurs.
5. 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.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



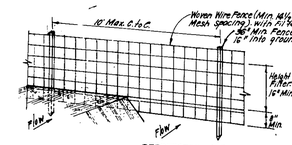
CONSTRUCTION SPECIFICATIONS:

1. All sites shall be compacted by earth-moving equipment.
2. All dikes shall have positive drainage to an outlet.
3. This width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
4. Fill material should be compacted as needed to utilize a stabilized soil which shall be compacted to a sediment trapping device such as a sediment trap or sediment basin where either the site channel or the drainage area given the dike are not adequately stabilized.
5. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.

TYPE OF TREATMENT	CHANNEL GRADE	TYPE A	TYPE B
1	0.5-3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1-5.0%	Seed & Straw Mulch	Seed w/Jute, or Excelsior Mat, or Fiber Mat
3	5.1-8.0%	Seed w/Jute or Jack Straws	Lined Rip Rap 6" thickness
4	8.1-10.0%	Lined Rip Rap 6" thickness	Engineering Design

A Slope is the 2 Nearest Tenths of a Percent.
B Rip Rap to be of a size in a layer at least twice the diameter of the stone in the rock.
C Approved equivalents can be substituted for rock or crushed stone.
D Rip Rap to be underlain with a filter cloth or approved equivalent.
E Approved equivalents can be substituted for the specified materials.
7. Periodic inspection and required maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.)
NO SCALE



PERSPECTIVE VIEW

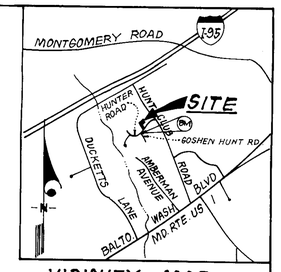
SECTION

CONSTRUCTION SPECIFICATIONS:

1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
4. Maintenance shall be performed as needed and material removed when "bulging" develops in Silt Fence.

POSTS: Steel either T or U Type or 2" x 2" Hardwood.
FENCE: Woven Wire, 14½ Gauge, 6" Max. Mesh Opening.
FILTER CLOTH: Filter-X, Mirafi 140N, Stabinka T140N or Approv. equal.
PREFABRICATED UNIT: Geofab, Enviro-Fence, or Approv. equal.

SILT FENCE DETAIL (S)
NO SCALE



VICINITY MAP
SCALE: 1" = 2,000'

LEGEND

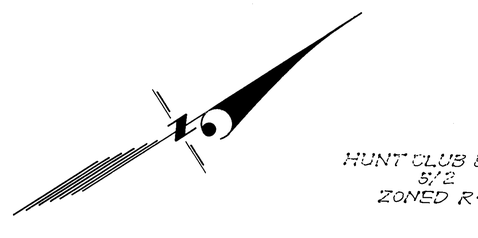
Contour Interval	2 Ft
Existing Contour	222
Proposed Contour	222
Spot Elevation	+225
Direction of Drainage	
Silt Fence	S
Earth Dike	E.D. (A-1)
Stabilized Construction Entrance	SCE

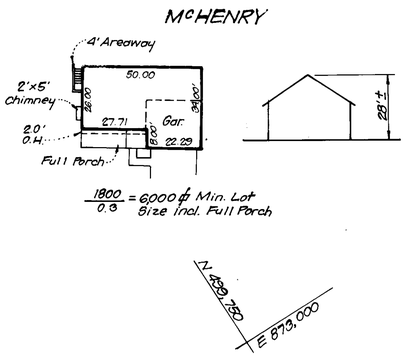
GENERAL NOTES:

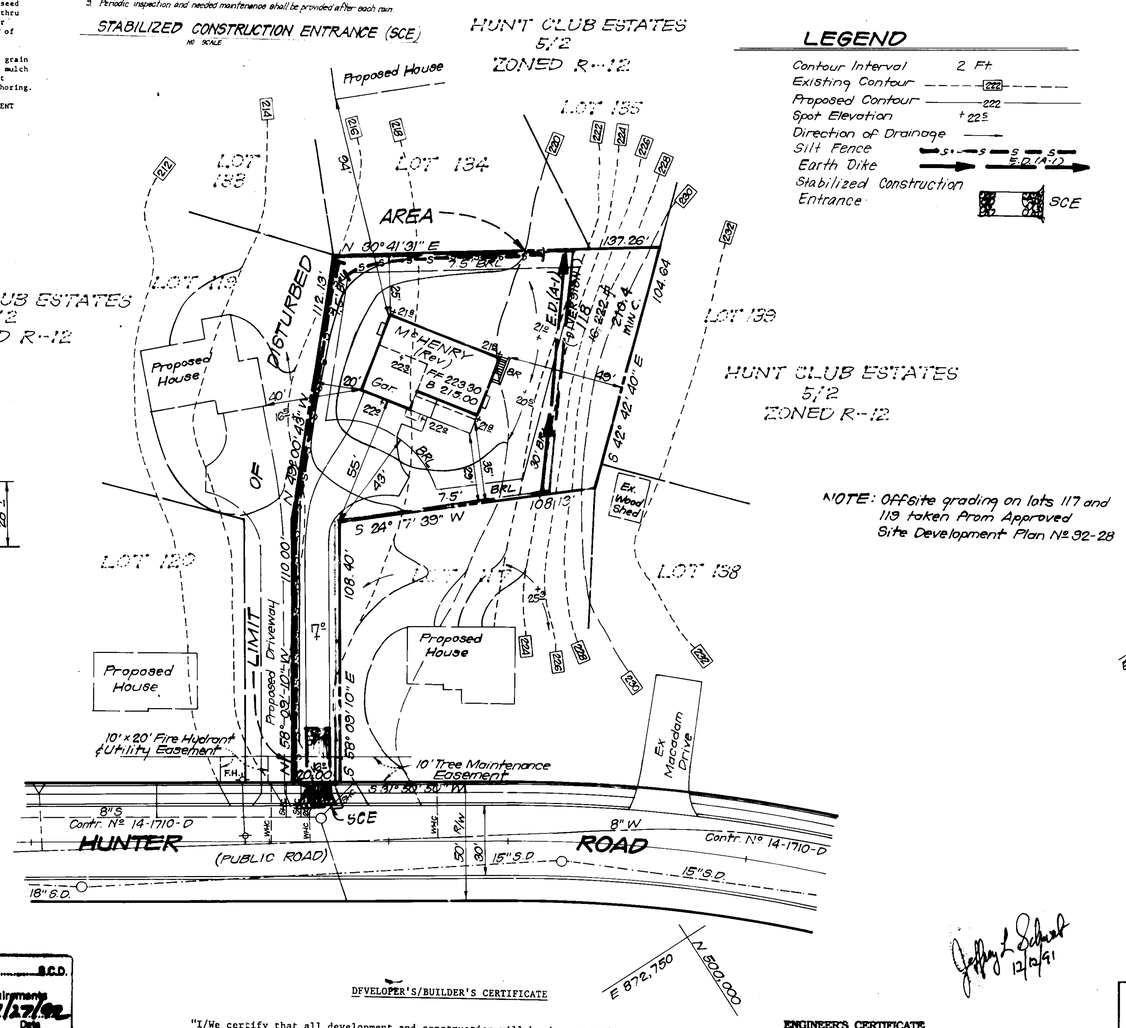
1. The Land included in this plan is zoned R-12 as per 8-2-85 Comprehensive Zoning Plan.
2. The coordinates shown hereon are based on the Md. St. Grid System as projected by Ho. Co. Geodetic Control System.
3. All roadways are public and existing.
4. Total area included in this plan: 16.222 ±
5. Any damage to county owned rights-of-way shall be corrected at the developers expense.
6. Total number of lots: 1
7. Storm Water Management for this project is provided by F-89-100.
8. Lot coverage: 30%
9. Existing topography shown was field run by Clark, Finefrock & Sackett, Inc. in June, 1991.
10. Improvements to property: Single Family Detached Units.
11. For Driveway Abutting Detail See Howard Co. Design Details R-6.03.
12. All construction and materials shall be in accordance with the latest edition of the Std's. and Specifications for Ho. Co., Design Manual Vol. IX.

SPECIAL NOTES:

1. Approved Road Construction Plans Shall be used for all public Utilities.
2. Public Water & Sewer Shown for reference only. For more detailed information - see water & sewer plans Contract No. 19-1710-D.
3. The water & sewer house connections not included in a "Developer's Agreement" Shall conform to Howard County Plumbing Code. The on-site WHC shall be 1" copper and the SHC shall be 4" Iron.
4. Storm Water Management provided for by a central facility under F-87-92.
5. This plan is for the grading of lots only. Improvements shown within the right-of-way on this plan are not to be used for construction. For construction, see approved road construction plans F-87-92 and/or approved water & sewer plans C-14-1710-D.
6. Plan Reference Numbers: F-87-092, P-88-05, F-89-100.
7. Bench Mark at the corner of Goshen Hunt Road and Hunter Road; Top of Fire Hydrant Elev. 195.73.







NOTE: Offsite grading on lots 117 and 119 taken from Approved Site Development Plan No. 92-28

LOT	GROSS LOT AREA	PIPESTEM AREA	Flood Plain / Steep Slopes	Net Area
118	16,222 ±	2,184 ±	0	14,038 ±

ADDRESS CHART	
Lot No	STREET NAME
118	6741 HUNTER ROAD

Subdivision Name	Sect/Area	Lots
HUNT CLUB ESTATES	5/2	118

Plat No.	Block No.	Zone	Tax Map No.	Elec. Distr.	Census Tr.
9073	7	R-12	38	1ST	6012

Water Code	Sewer Code
D-08	2152215

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 2-7-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR — DATE 2/20/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 2/19/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 1-30-92
CHIEF BUREAU OF ENGINEERING — DATE 1-30-92

Reviewed for HOWARD S.C.D. Name
Conformance to Technical Requirements
Signature — Date 1/27/92
U.S. Soil Conservation Service

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

John R. Robertson 1/27/92
Approved

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We 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 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 necessary."

Florence M. Schmekenko — 12 12 91
Signature — Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment 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.

Jeffrey L. Schwab — 12/12/91
Jeffrey L. Schwab — Date

Jeffrey L. Schwab 12/12/91

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 — BALTO. • (301) 621-8100 — WASH.

DESIGNED UME	SITE DEVELOPMENT PLAN AND SEDIMENT & EROSION CONTROL PLAN LOT 118	SCALE 1"=30'
DRAWN BAL	HUNT CLUB ESTATES SECTION 5 AREA 2 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 1 OF 1
CHECKED UME		JOB NO. 91-119
DATE Dec. 1991	FOR: THE RYLAND GROUP 7130 Minstrel Way Suite 215 Columbia, Maryland 21045	FILE NO. 91-118-X

S.D.P 92-63