

SEDIMENT AND EROSION CONTROL NOTES

- 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. (918-1855).
- 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 SPECS. 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, perimeter slopes 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/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12, 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 SPECS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and temporary seedings (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.
- 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.

• 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.

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 sq ft.) and 800 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 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 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 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 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 reseeding.

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

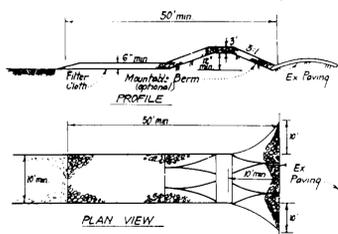
SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq ft.).

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 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 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

TEMPORARY SEEDING NOTES

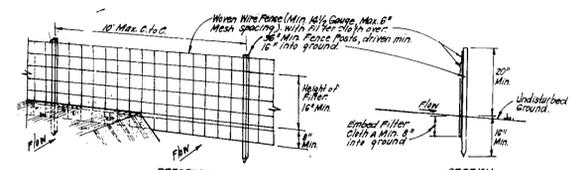


SILT FENCE DETAIL (3)
NO SCALE

- CONSTRUCTION SPECIFICATIONS:**
1. Stone Size - Use 2" stone, or equivalent in 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 8" (8) inches.
 4. Width - Ten (10) feet minimum, but not less than the full width of a driveway 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 single family residences 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 work or removal of any material used in the construction. All sediment applied, 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.

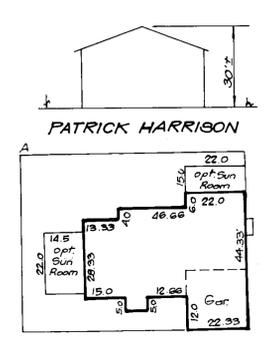
STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE

NO	REVISIONS	Date
1	Add Dorchester/D-II see typical	5-20-98



CONSTRUCTION SEQUENCE:

- | NO. OF DAYS | DESCRIPTION |
|-------------|--|
| 7 | 1. Obtain grading permit |
| N/A | 2. Install tree protection fence |
| 1 | 3. Install sediment and erosion control devices and stabilize. |
| 30 | 4. Excavate for foundations, rough grade and temporarily stabilize. |
| 60 | 5. Construct structures, sidewalks and driveways. |
| 30 | 6. Final grade and stabilize in accordance with Stds. and Specs. |
| 30 | 7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize. |



PATRICK HARRISON
2004.74 = 2049.13 sq Min. Lot Size w/All options

LEGEND

- Contour Int. Int. 2 Ft
- Existing Contour ---
- Proposed Contour ---
- Spot Elevation ---
- Direction of Driveway ---
- Existing Door to the Street ---
- Door Elevation ---
- Walk-out Basement ---
- Silt Fence ---
- Stabilized Construction Entrance ---

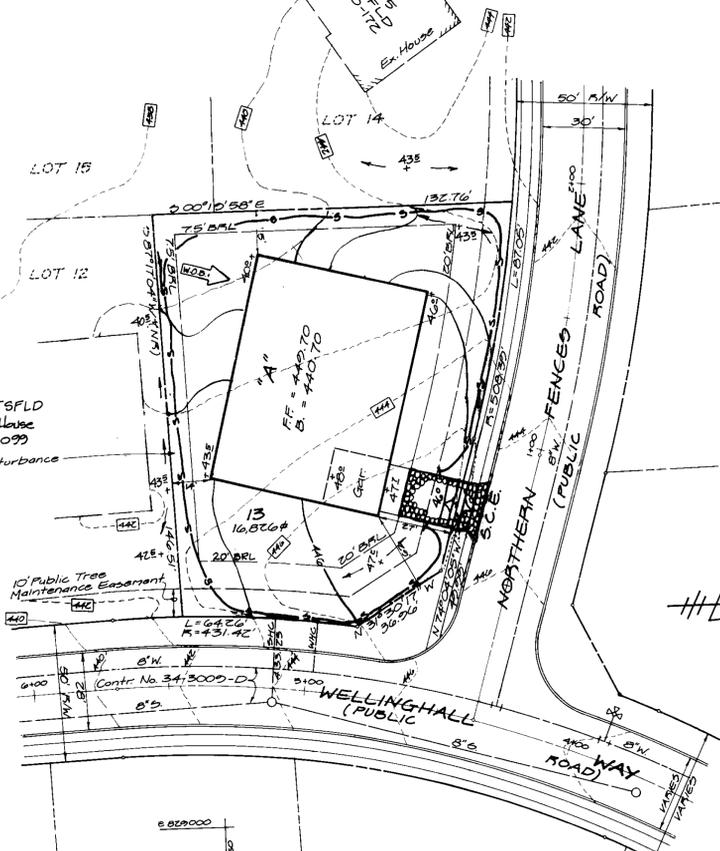
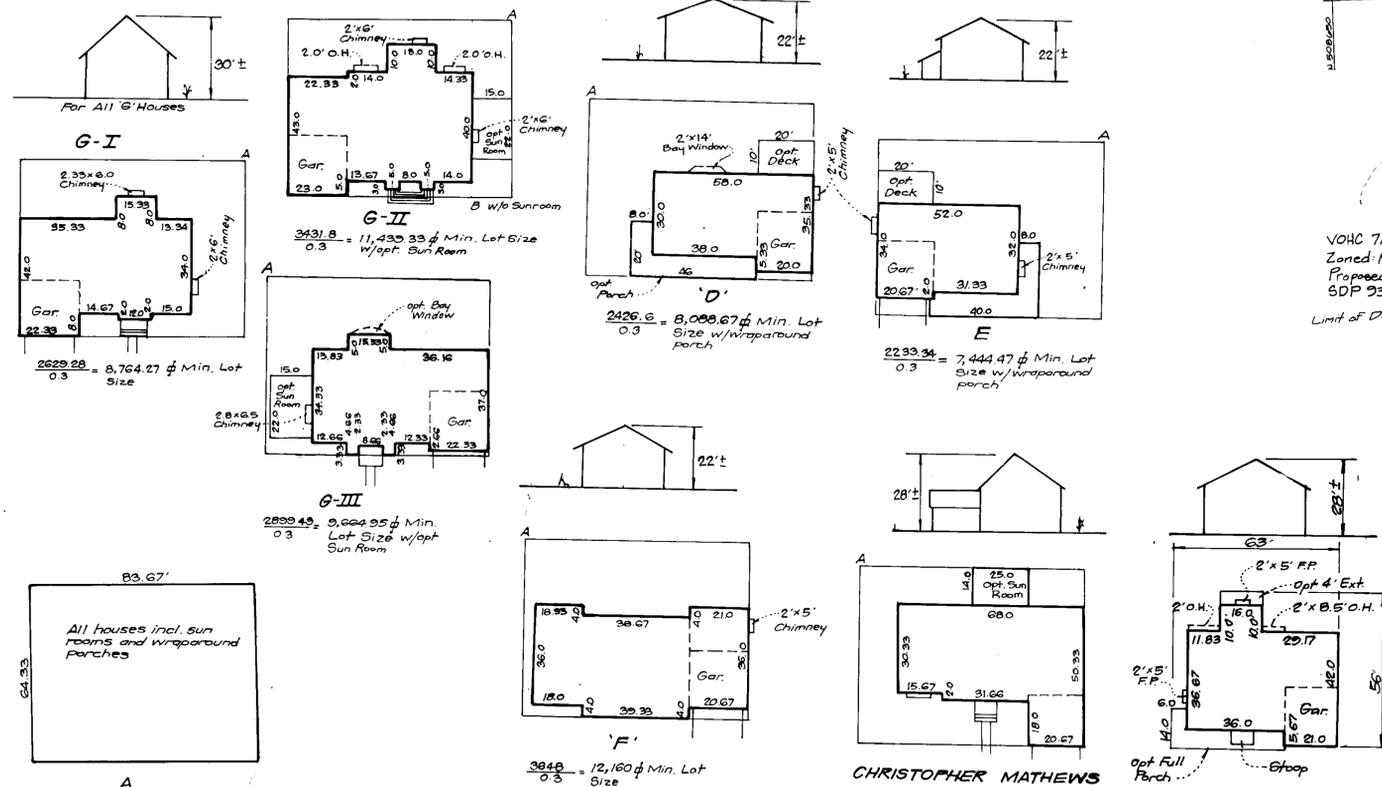
GENERAL NOTES:

1. Subject property is zoned NTSFLD per 10-18-13 Comprehensive Zoning Plan.
2. The total area included in this submission is 16,826 sq. ft. or 0.38 Ac.
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%.
6. Department of Planning and Development reference file numbers are: 6-BB-101, P-80-145, W-80-14, P-80-03, FDP Phase 204-A 34-3007-D.
7. Utilities shown as existing are taken from approved water and sewer plan Contract # 34-3000-D, approved road construction plans F-20-06, and actual field survey.
8. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
9. Storm water management shall be in accordance with the approved storm water management plan for this project.
10. All roadways are public and existing.
11. The existing topography shown was taken from road construction plans F-20-06 prepared by Kevin Condit/Intertec.
12. The coordinates shown herein are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Mainport No. 2730000 and 2730000.
13. The contractor shall notify the Department of Public Works, Bureau of Construction Inspection at (410) 313-1880 at least five (5) working days prior to the start of work.
14. The contractor shall notify "Mass Utility" at 1-800-281-1111 at least 48 hours prior to any excavation work.
15. Pursuant to FDP-204A, streets and patches must extend 3 feet into front and rear setbacks.
16. For showing extensive details refer to Howard County Drivers Manual Chapter 11, Std. Details F-6.03.

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-20-06 and/or approved Water and Sewer Plans Contract # 34-3000-D.

ADDRESS CHART			
Lot 13	5103 Northern Fences Lane		
SUBDIVISION NAME	COLUMBIA	SECTION/AREA	7/5
VILLAGE OF HARPER'S CHOICE		LOTS/PARCELS	13
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.
3317	16	NTSFLD	20
WATER CODE		ELECTION DIST.	CENSUS TRACT
I-03		5774	6055
		SERIES CODE	
			6740000



OWNER/DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10725 Little Patuxent Phwy
Columbia, Md. 21044

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COLUMBIA HEALTH OFFICER: *[Signature]* DATE: 4/6/94

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR: *[Signature]* DATE: 4/15/94

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH: *[Signature]* DATE: 3/31/94

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *[Signature]* DATE: 3/30/94

Reviewed for HOWARD S.C.D. Name: *[Signature]* Signature: *[Signature]* US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
[Signature] Approved: 3/31/94

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 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 or their authorized agents, as are deemed necessary.
[Signature] HARRY L. LUDBY DATE: 2-3-94

ENGINEER'S CERTIFICATE
I hereby 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.
[Signature] G. NELSON CLARK DATE: 2-4-94

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINNISTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 • BALTO. • (301) 621-8100 • WASH.

DESIGNED: JME/ULS
DRAWN: MCP
CHECKED: JME/ULS
DATE: 2-3-94

LOT 13 - SITE DEVELOPMENT PLAN AND SEDIMENT & EROSION CONTROL PLAN
COLUMBIA
VILLAGE OF HARPER'S CHOICE
SECTION 7 AREA 5
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: WILLIAMSBURG BUILDERS, INC.
PO Box 1018
Columbia, Md. 21044

SCALE: 1" = 30'
DRAWING: 10/1
JOB NO.: 90-075
FILE NO.: 90-075X