

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. (308-18.05)
- 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. I, 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 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.
- 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.
- SITE ANALYSIS:**
 Total Area of Site: 0.36 AC
 Area Disturbed: 0.36 AC
 Area to be roofed or paved: 0.09 AC
 Area to be vegetatively stabilized: 0.11 AC
 Total Cut: 270 CY
 Total Fill: 270 CY
 Offsite Waste/Borrow Area Location: _____
 Any sediment control practice which is disturbed by grading 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 OPM Sediment Control Inspector.
 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.
 If houses are to be constructed on an "as sold" basis, at random, Single Family Sediment Control, as shown below shall be implemented.
 All pipes to be blocked at the end of each day (see detail this sheet).
 The total amount of silt fence = 215 LF

* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector at the site and it's 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, disking 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 (14 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 unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (8 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

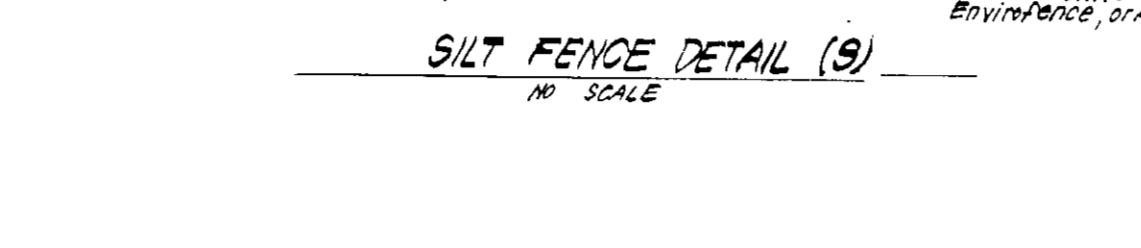
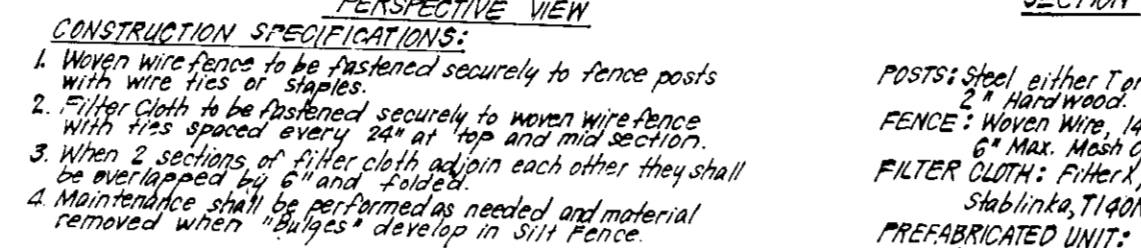
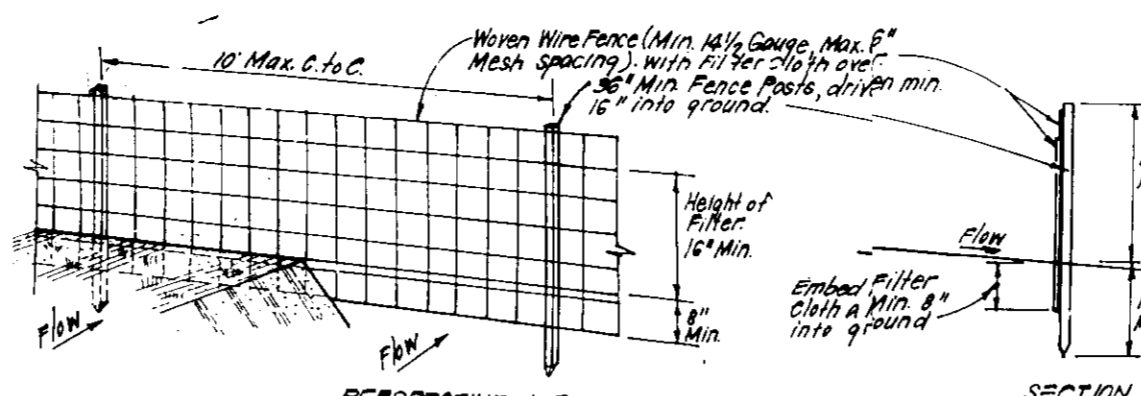
SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

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.

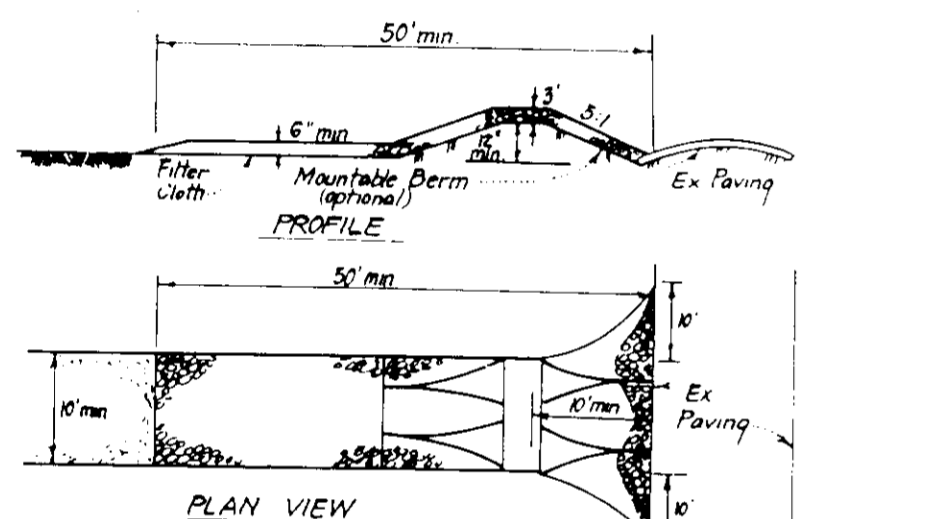
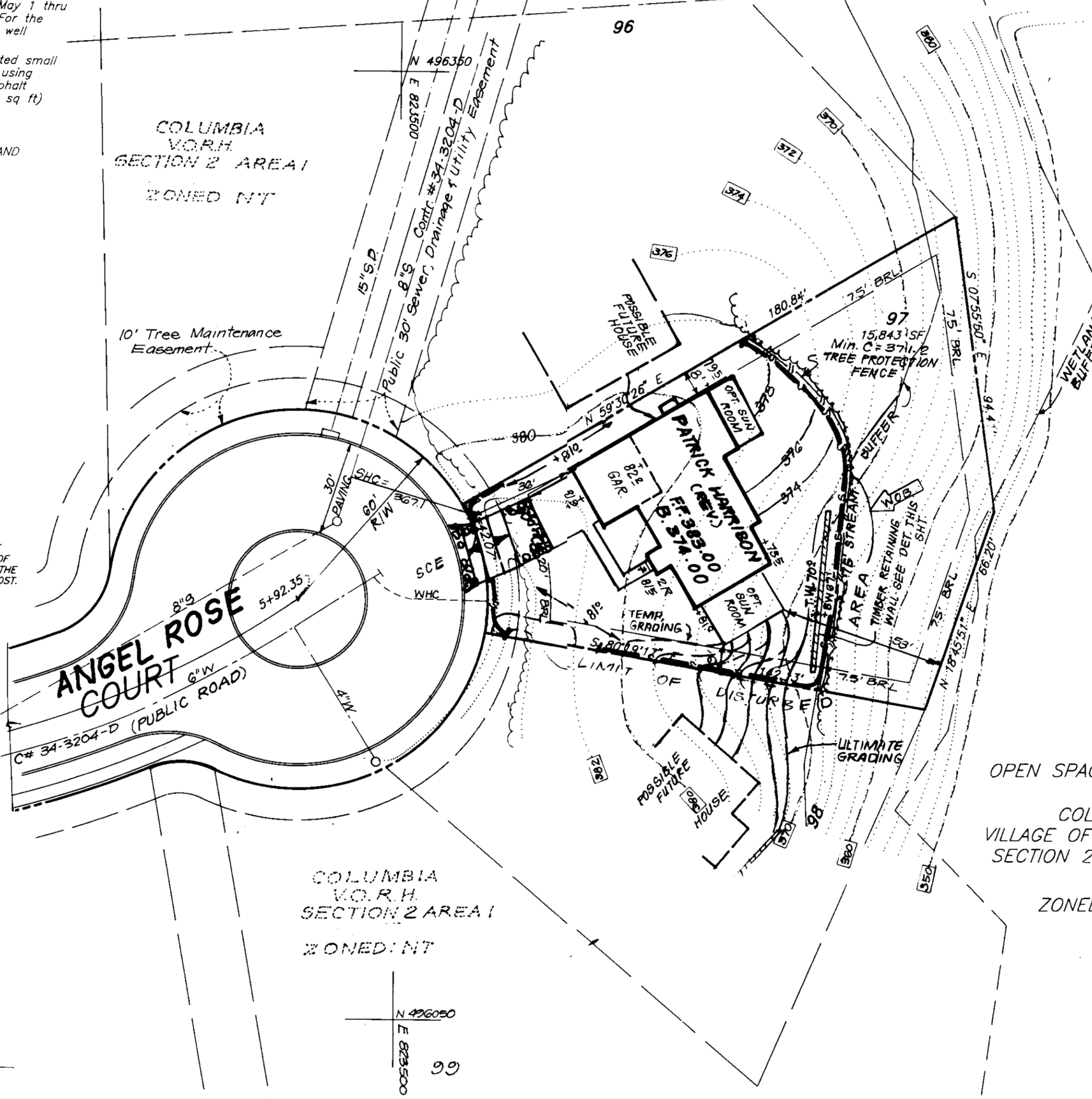
MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq ft) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (8 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, 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.



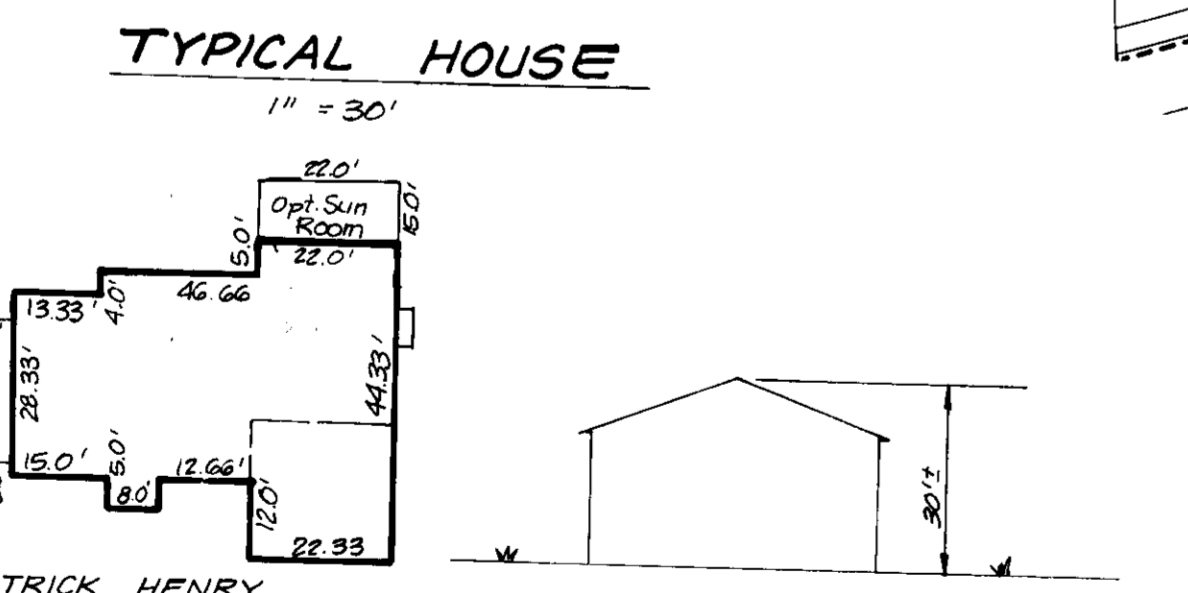
CONSTRUCTION SEQUENCE:

NO.	NO. OF DAYS
A. Obtain grading permit	7
B. Install tree protection fence	7
C. Install sediment and erosion control devices and stabilize	14
D. Excavate for foundations, rough grade and temporarily stabilize	30
E. Construct structures, sidewalks and driveways	60
F. Final grade and stabilize in accordance with Specs. and Specs.	14
G. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize	7



- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 2" stone, or reclaimed 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 or egress 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 diverted toward construction entrances shall be passed across the entrance. If piping is impractical, a mounds of berm with 3:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment into public rights of way. This may require periodic top dressing with additional stone as conditions demand. Sediment should be cleaned, washed or tracked onto public rights of way must be removed immediately.
 - Warning - Signs shall be obtained to remove sediment prior to entrance onto public rights of way. When warning 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.

STABILIZED CONSTRUCTION ENTRANCE (SCE)



PATRICK HENRY
 2984.74 994.913
 0.3 Min. Lot 5120

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER: [Signature] DATE: 6-16-93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.
 DIRECTOR: [Signature] DATE: 7/2/93
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 7/2/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR: [Signature] DATE: 6-11-93
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 6-10-93

Reviewed for: HOWARD S.C.D.
 Name: [Signature]
 and made the following recommendations:
 [Signature] 6/1/93
 US Soil Conservation Service

DEVELOPER'S/BUILDER'S CERTIFICATE
 "I 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: [Signature] Date: 3/15/93
 Harry L. Lundy

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: [Signature] Date: 3-15-93
 G. Nelson Clark



CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINISTREL WAY • COLUMBIA, MD 21046 • (410) 381-7500 • FAX: (410) 381-8000 • WASH.

SITE DEVELOPMENT PLAN AND SEDIMENT AND EROSION CONTROL PLAN
 LOT 57
 COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 1
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR WILLIAMSBURG BUILDERS
 P.O. Box 1018
 Columbia, MD 21044

DESIGNED: J.M.E. K.I.M.M.
 DRAWN: G.A.D. K.I.W.M.E.
 CHECKED: J.M.E. K.I.M.M.
 DATE: 3-15-93

SCALE: 1" = 30'
 DRAWING: 1 of 1
 JOB NO: 93-052
 FILE NO: 93-052X

GENERAL NOTES:

- Subject property is zoned: NT SFLD per B-2-85 Comprehensive Zoning Plan.
- The total area included in this submission is: 0.36 AC.
- The total number of lots included in this submission are: 1
- Improvement to property: Single family detached
- The maximum lot coverage permitted is: 30%
- Department of Planning and Zoning reference file numbers are: S-91-03, P-92-13, WP-92-13, F-93-18 FOP Phase 207
- Utilities shown as existing are taken from approved water and sewer plan Contract # 34-3204-D, approved road construction plans F-93-18, and actual field survey.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Storm water management is provided per: F-93-18.
- All roadways are public and existing.
- The existing topography shown was taken from plans prepared by Kiemer Mugga and Associates, Inc. F-93-18.
- 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. 13, 14, 11, 21, 22, 23, 24, and 24, 37, 38.
- The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at (410) 318-1810 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-2777 at least 48 hours prior to any excavation work.
- Decks and Porches may only extend 3 feet into the front and rear setback as stated in FOP, Ph. 209 Item #6
- For driveway entrance details refer to Howard County Design Manual Volume II, Std details R-6-05

SPECIAL NOTES:

This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.C.P. are not to be used for construction. For construction, see approved Road Construction Plans F-93-18 and/or approved Water and Sewer Plans Contract #C-34-3204-D.

SHEET INDEX:

SHEET 1 SITE DEVELOPMENT PLAN & SEDIMENT & EROSION CONTROL PLAN

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
57	6329 ANGEL ROSE COURT

OWNER:		SUBMISSION NAME:		SECTION/AREA:		LOTS/PARCELS:	
HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 Little Patuxent Parkway Columbia, Maryland 21044		COLUMBIA VILLAGE OF RIVER HILL		2/1		57	
PLAT NO. 10843-10848	BLOCK NO. 14	ZONE N.T.	TAX MAP NO. 35	ELECTION DIST. 5TH	CENSUS TRACT 6053.01		
WATER CODE I-12		SEWER CODE 6652500					