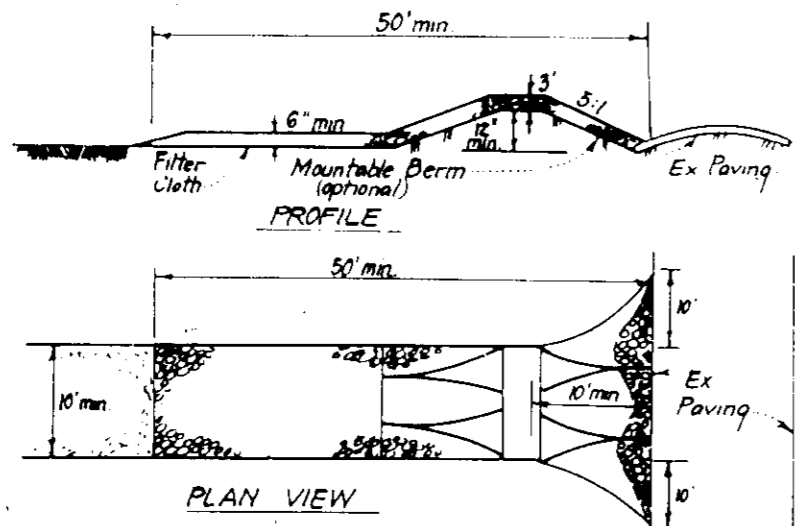


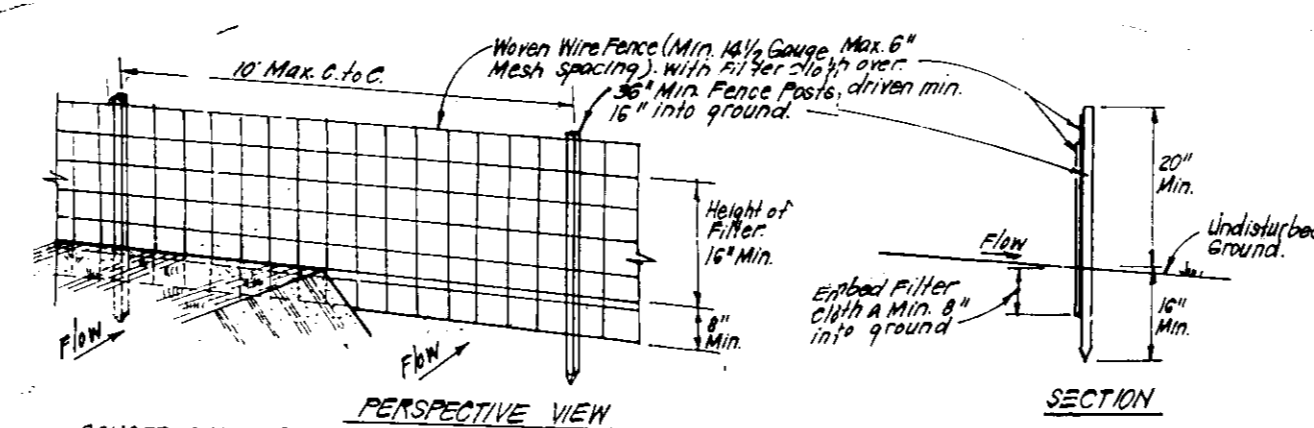
SEDIMENT AND EROSION CONTROL NOTES

- 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. (892-2437).
- 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 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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (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.



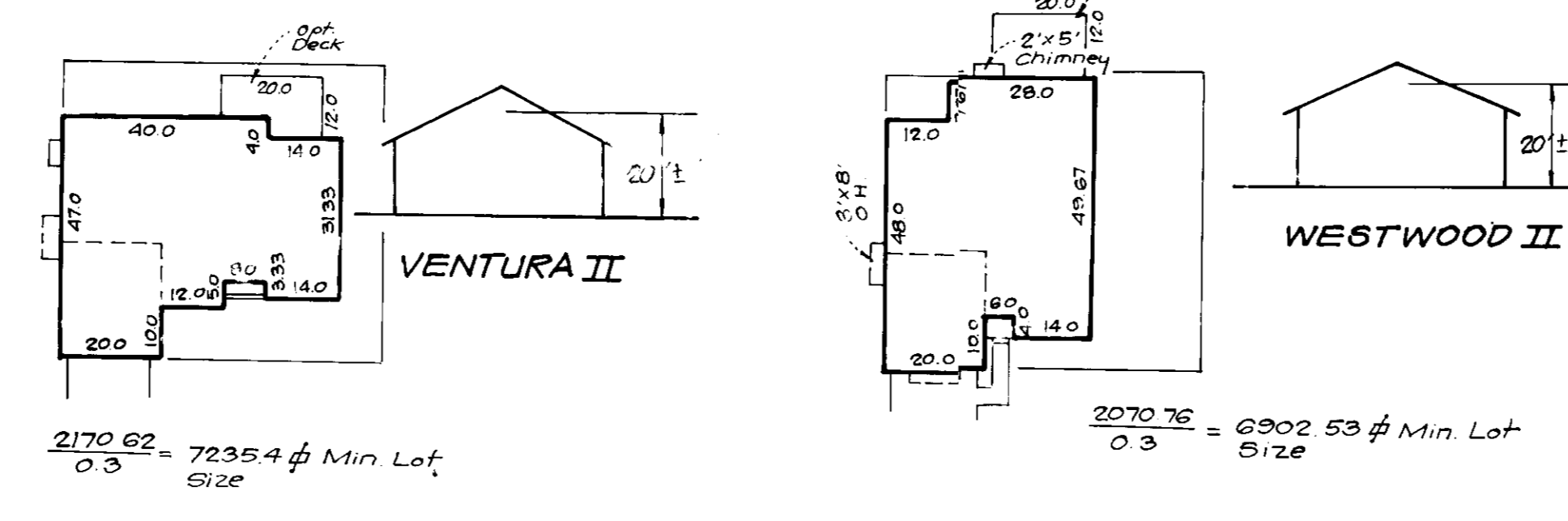
- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 2" stone or equivalent in recycled concrete equivalent.
 - Length - As required, but not less than 50' feet (exception a single residence lot where a 30' foot minimum length would apply).
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10) feet 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 over the SCE must be directed into a storm drain or other approved drainage device.
 - Main Entrance - 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 - Washing shall be provided 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.

STABILIZED CONSTRUCTION ENTRANCE (SCE)



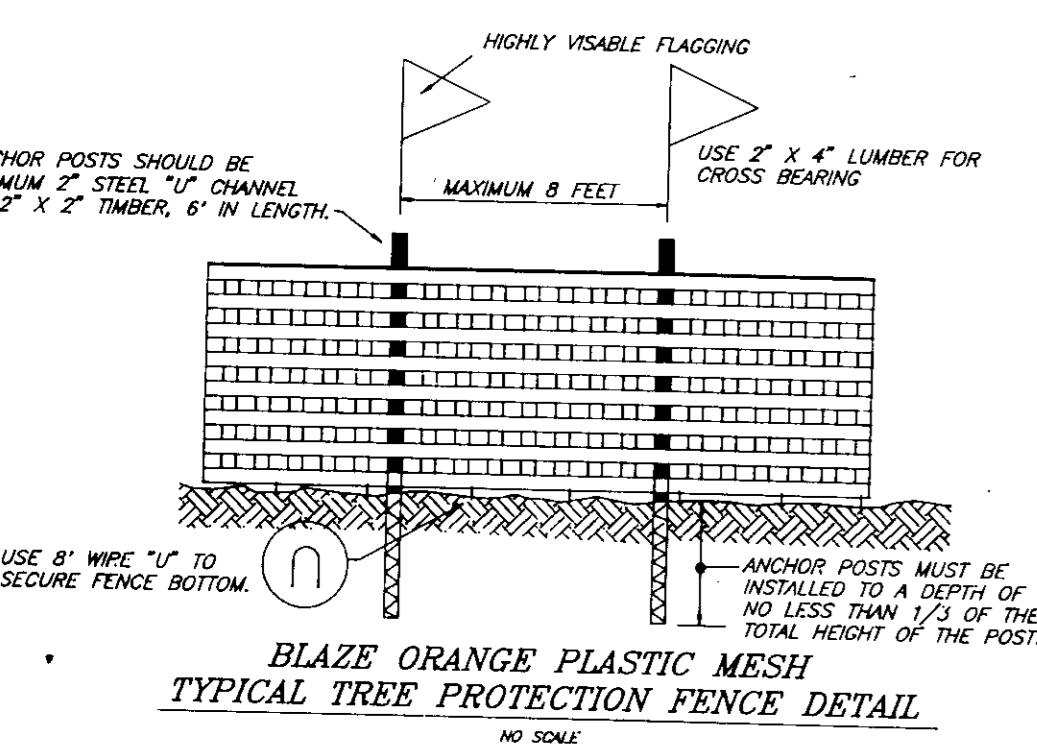
- CONSTRUCTION SPECIFICATIONS:**
- When wire fence is to be fastened securely to fence posts with wire ties or staples.
 - Filter cloth is to be fastened securely to wire fence with ties spaced every 24" at top and mid section.
 - When 2 sections of filter cloth are used, each other they shall be overlapped by 6" and stapled.
 - Maintenance shall be performed as needed and material removed when "bushes" develop in Silt Fence.

SILT FENCE DETAIL (S)



CONSTRUCTION SEQUENCE:

NO. OF DAYS	NO. OF DAYS
A. Obtain grading permit	7
B. Install tree protection fence	7
C. Install sediment and erosion control devices and stabilize	7
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



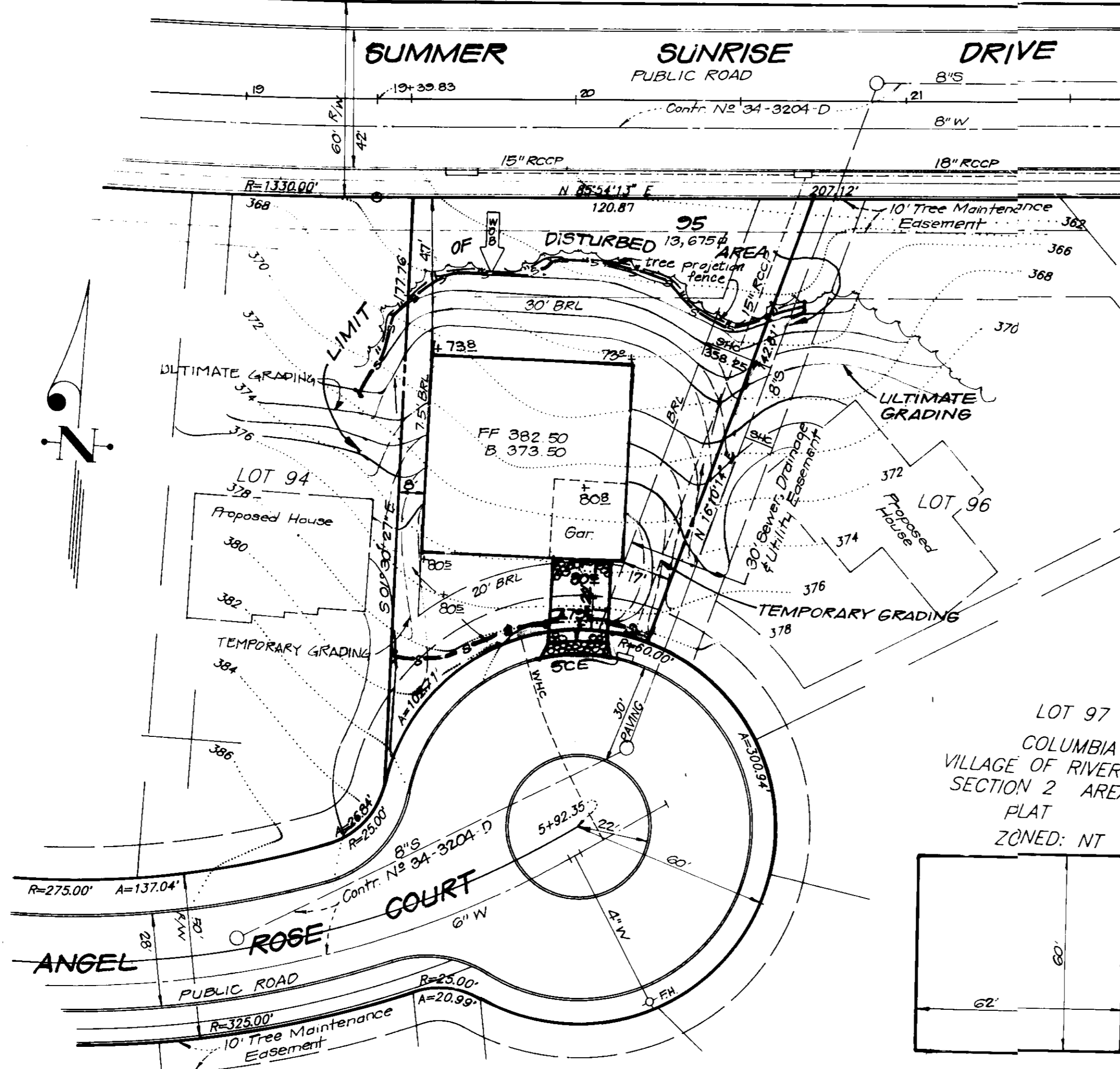
- NOTES:**
- Forest protection device only.
 - Retention area will be set as part of the review process.
 - Boundaries of retention area should be staked and flagged prior to installing device.
 - Road damage should be avoided.
 - Protection signage may also be used.
 - Device should be maintained throughout construction.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 6-25-93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] DATE: 7/2/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 2/1/93

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 6-25-93



ADDRESS CHART

LOT NO.	STREET ADDRESS
95	6321 ANGEL ROSE COURT

Reviewed for HOWARD COUNTY S.C.D. Name: [Signature] Date: 6/25/93
 and meets Technical Requirements
 Signature: [Signature] Date: 6/25/93
 US Soil Conservation Service

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, also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

Signature: [Signature] Date: 3/23/93
 C. Allan Waschak

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: 3/22/93
 Jeffrey L. Schwab

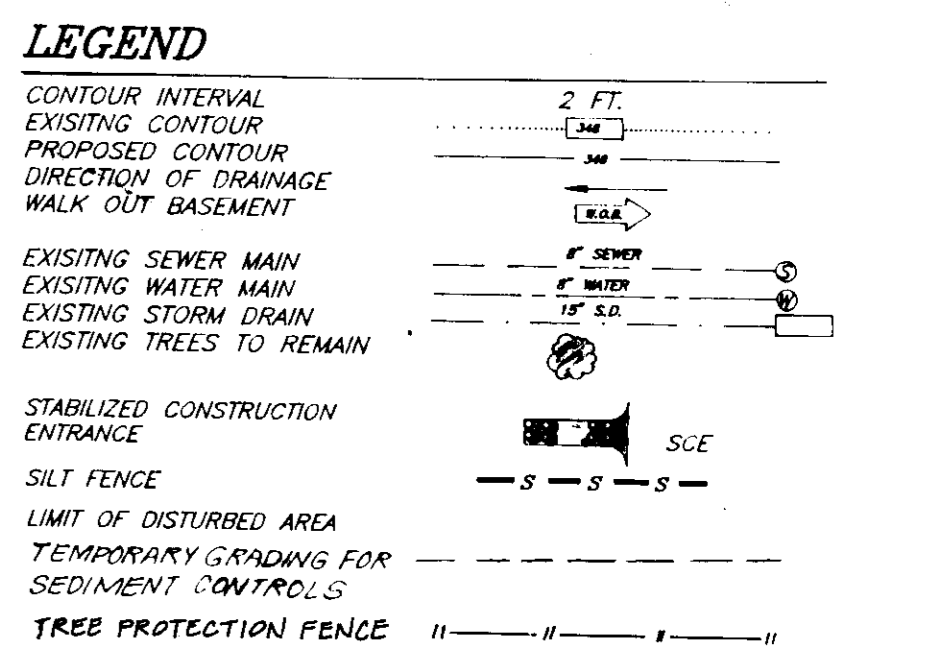
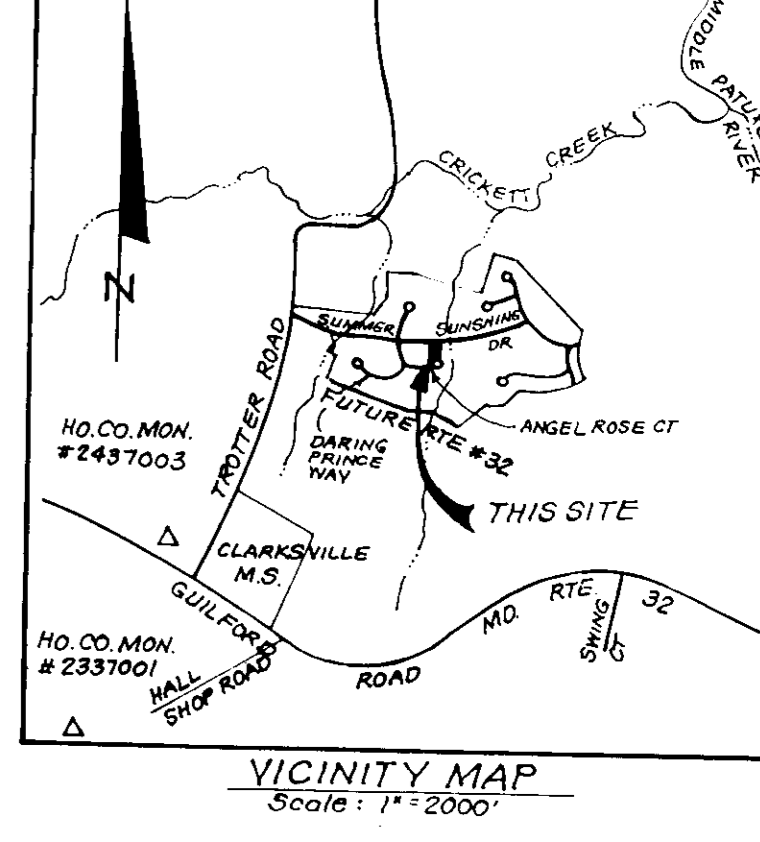
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
 Signature: [Signature] Date: 6/25/93

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 80 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 (.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 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 3 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 reseedsings.

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 1 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (32 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.
- 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 3 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.



GENERAL NOTES:

- Subject property is zoned: NTSFLD per 8-2-85 Comprehensive Zoning Plan.
- The total area included in this submission is: 18,675 sq ft or 0.3139 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: F-93-03, F-92-13, W-92-13, F-93-18 FDD Phase 209
- 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 road construction plans F-93-18 prepared by Kiemer Muegge & Assoc., Inc.
- The coordinates shown hereon are based upon the Howard County Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos.: 2337001 & 2437003.
- The contractor shall notify the Department of Public Works/ Bureau of Construction Inspection at (410) 313-1870 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- In accordance with FDD Phase 209, Part I, corridors and easements may project not more than 3 feet into the setback areas; bay windows, porches, vestibules, balconies and shutters which are more than 10 feet in width may project not more than 4 feet into the setback area and porches and decks open or enclosed may project not more than 3 feet into the setback area.
- For driveway entrance details refer to Howard County Design Manual Volume III Std Detail R-205.
- Street trees to be provided by others in accordance with approved Road Construction Plans (F-93-18)

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-93-18 and/or approved Water and Sewer Plans Contract # 34-3204-D-W5.

OWNER/DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP
 10275 LITTLE PATWENT PARKWAY
 Columbia, Maryland 21044

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS
COLUMBIA VILLAGE OF RIVER HILL	2/1	95

PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
10843-10818	14	NTSFLD	35	5TH	

WATER CODE: I-12
 SEWER CODE: 6652500

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS

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

SITE DEVELOPMENT PLAN AND SEDIMENT AND EROSION CONTROL PLAN
 LOT 95
 COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

FOR: ALLAN HOMES, INC.
 10260 Old Columbia Rd.
 Columbia, Md. 21046

SCALE: 1" = 30'
 DRAWING: 1 OF 1
 JOB NO.: 93-051
 FILE NO.: 93-051 X

DESIGNED: JME/KIWM
 DRAWN: BAL
 CHECKED: JME/KIWM
 DATE: March 1993