

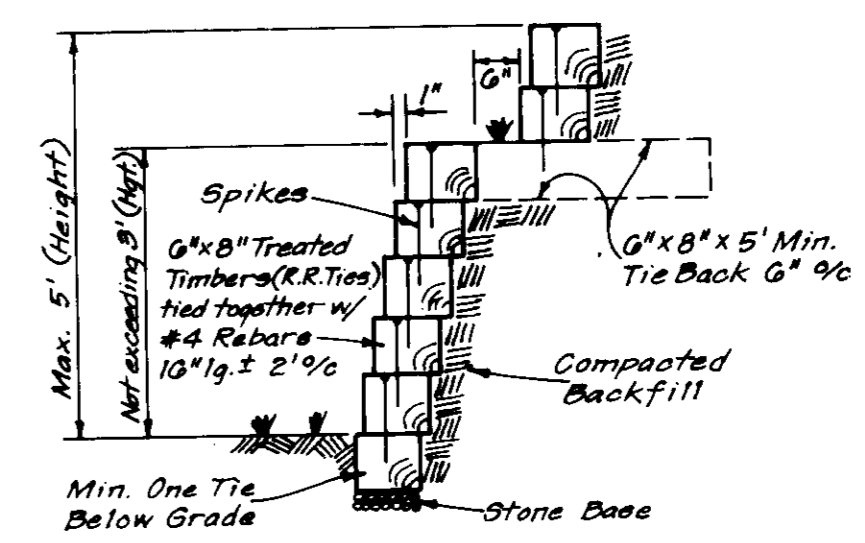
DRIVEWAY ABUTTING MOD. COMB. CURB AND GUTTER*

NOTE: Materials and Construction shall be in accordance with Howard County Road Construction Code.

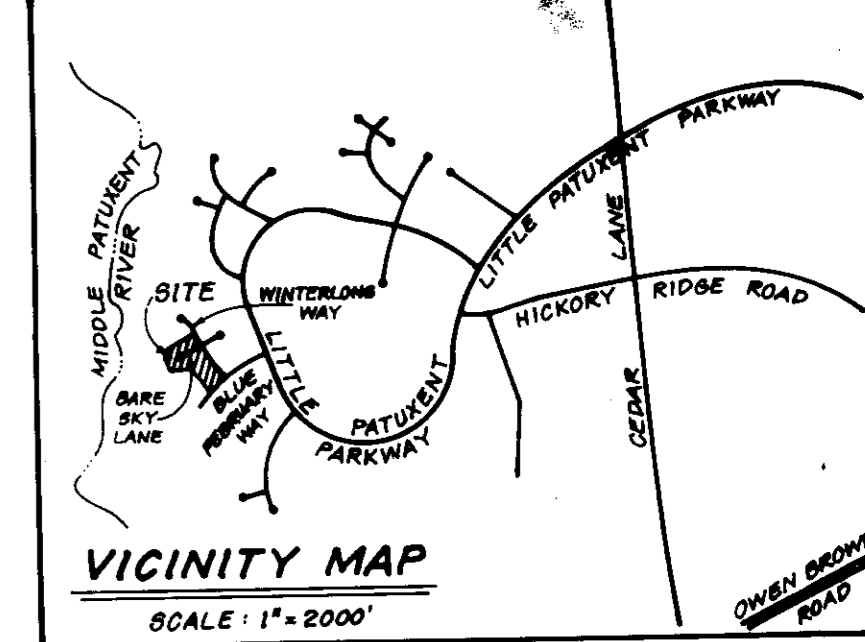
Alternate #1
1" Bit. Conc. Surface
4" Bit. Conc. Base

Alternate #2
1" Bit. Conc. Surface
3" Bit. Conc. Base
3" Gravel

* See Howard County Standard R-3.01 for Std. 7" Comb. Curb + Gutter necessary on the Cul-de-Sac.



TYPICAL RETAINING WALL



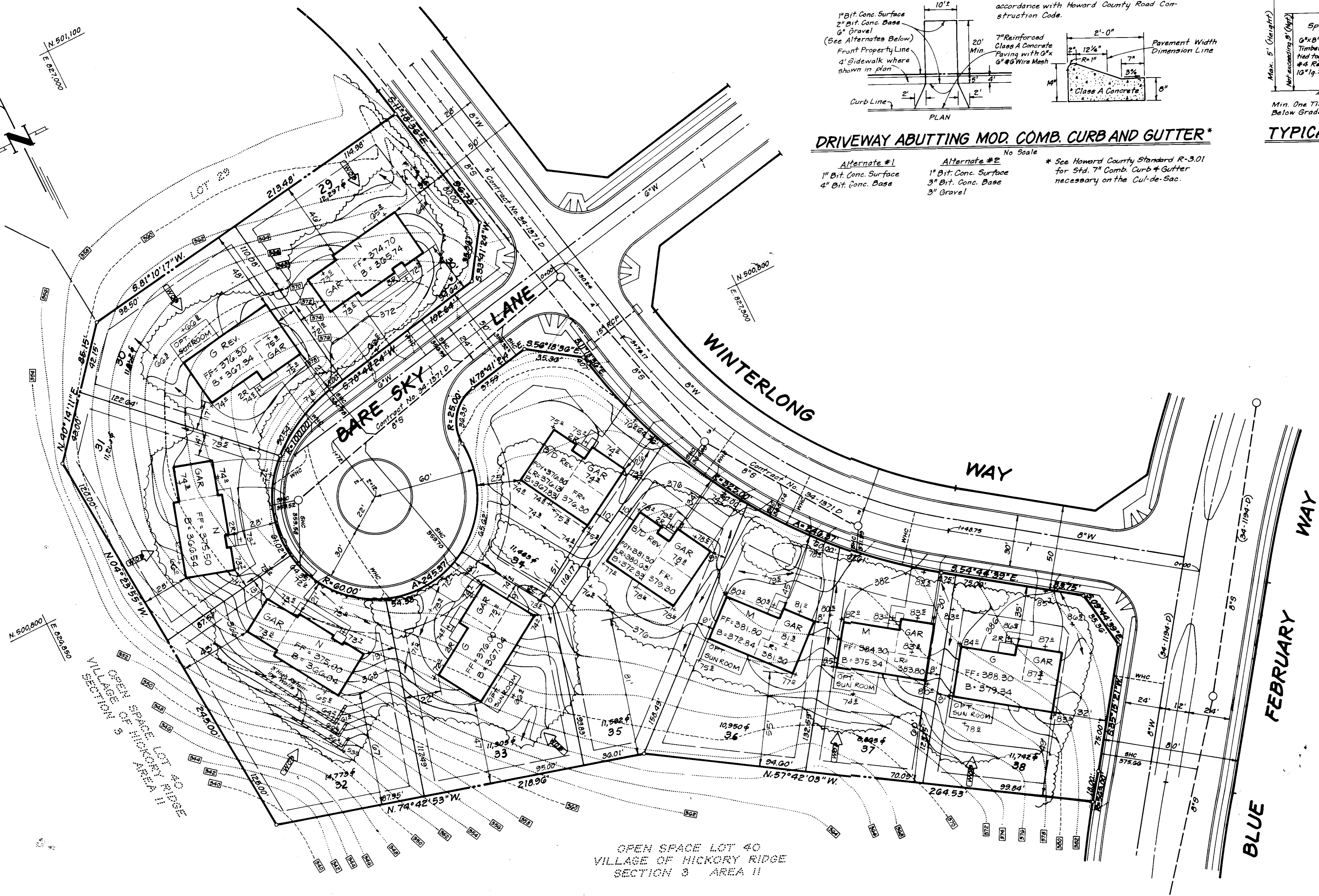
VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. The Land included is zoned: New Town S.F.M.D.
2. Coordinates are based upon traverse controls for Columbia established by Maps, Inc. in 1905 and Purdum & Jeschke in 1908, which controls were tied to the Maryland Bureau of Central Survey Monuments and to the U.S. Coast and Geodetic Survey Monuments in the Columbia Area.
3. All roads are public and existing.
4. Any damage to county owned rights-of-way to be corrected at the Developer's expense.
5. Total Area included: **2.001 Acres**.
6. Total Number of Lots: **10**.
7. Storm Water Management for this site has been provided in Y.O.H.R. #1 F.83-120 & Y.O.H.R. #15 F.84-51.

LEGEND

1. Contour Interval 2 Ft.
2. Existing Contour
3. Proposed Contour
4. Spot Elevation
5. Direction of Drainage
6. Existing Trees to be Saved
7. Walk-Out Basement



OPEN SPACE LOT 40
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA II

ADDRESS CHART	
LOT No.	STREET ADDRESS
29	11800 Bare Sky Lane
30	11804 " " "
31	11808 " " "
32	11811 " " "
33	11815 " " "
34	11817 Winterlong Way
35	11819 Winterlong Way
36	11823 " " "
37	11825 " " "
38	11801 " " "

SUBDIVISION NAME	COLUMBIA	SECT AREA	3/11	LOTS	29-38
VILLAGE OF HICKORY RIDGE					
PLAT #	6481	BLOCK #	10	ZONE	N.T. S.F.M.D.
TAX/ZONE MAP	95	ELEC DIST	5th	CENSUS TR	8053.01
WATER CODE	I-15	SEWER CODE	670000		

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

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 12-12-85

PLANNING DIRECTOR _____ DATE 12-12-85

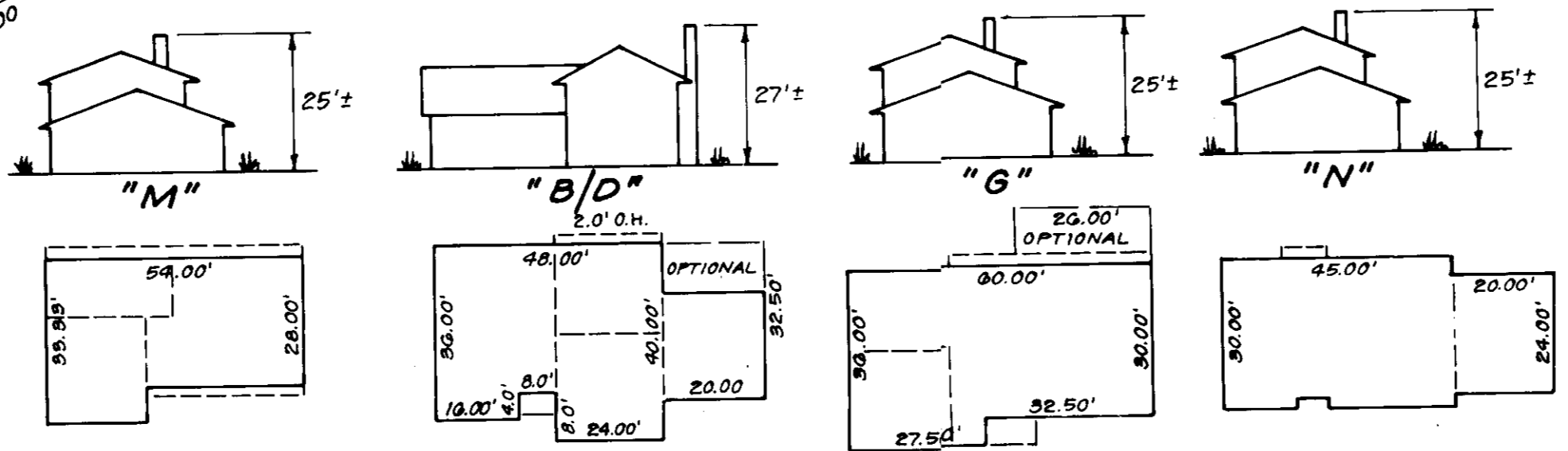
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE 12-4-85

CHIEF BUREAU OF ENGINEERING _____ DATE 12-12-85

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-6-85
JM/JMM



TYPICAL HOUSES
No Scale



CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

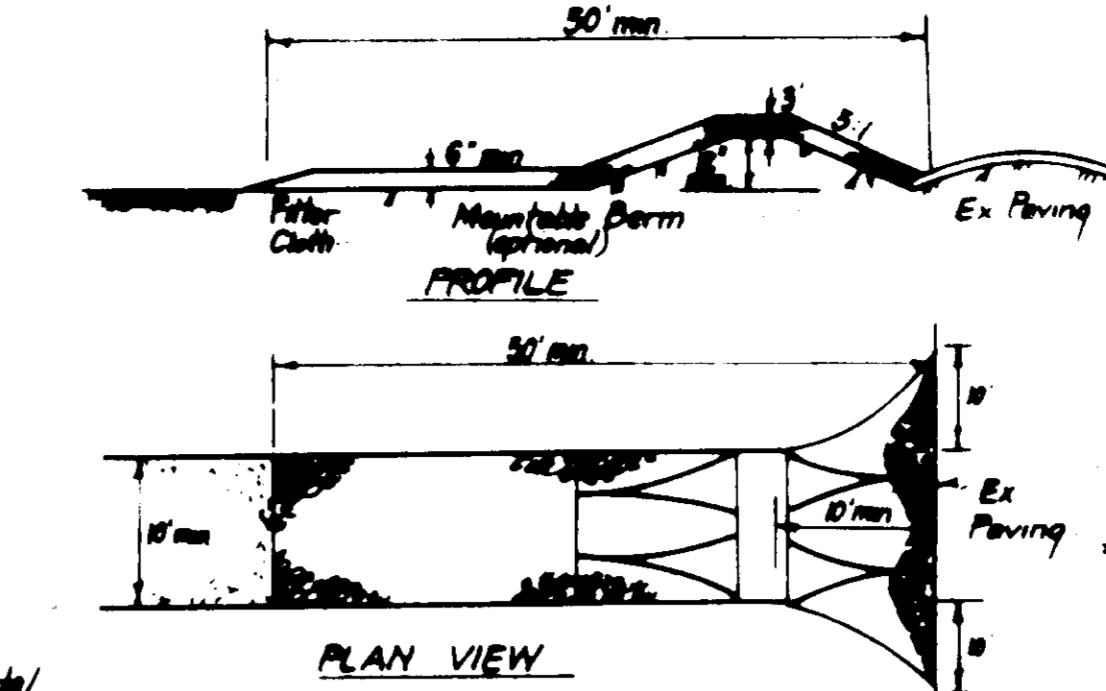
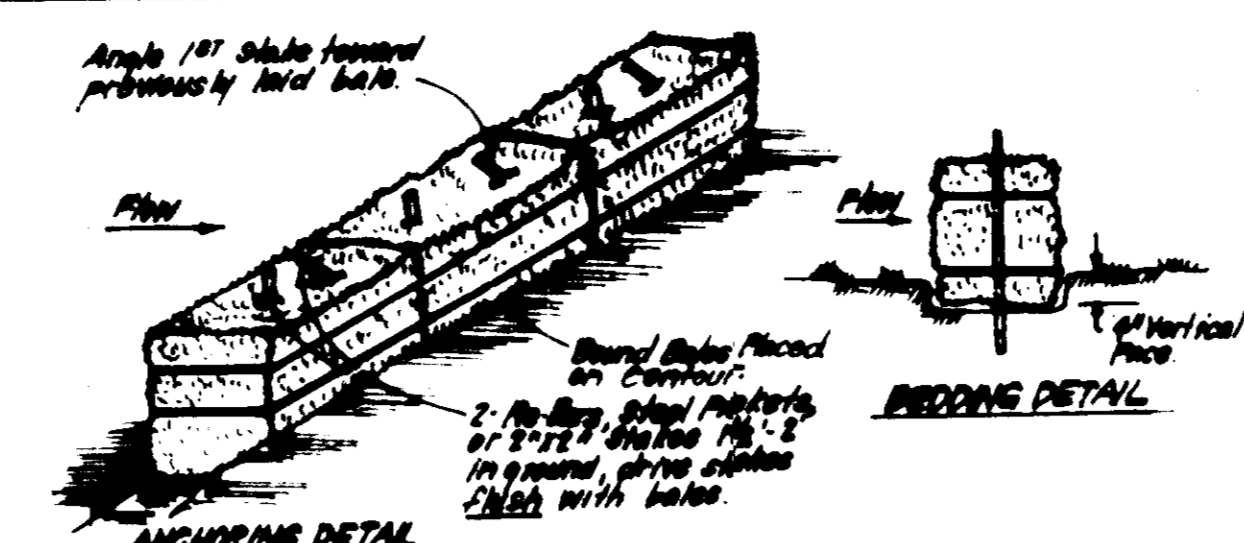
DESIGNED	JME	SITE DEVELOPMENT PLAN LOTS 29 THRU 38 COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA II 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE	1" = 30'
DRAWN	LAI		DRAWING	1 of 2
CHECKED	JME		JOB NO.	85-077
DATE	OCT. 1985		FILE NO.	85-077-X

FOR: COLUMBIA BUILDERS, INC.
Three Lake Front North Building, Suite 200
Columbia, Maryland 21044

Howard S.C.D.
 Requirements
 Date 12-4-85
 Service

THE SEEDING PLAN IS APPROVED FOR THE SEEDING AND EROSION CONTROL MEASURES AND SOIL CONSERVATION PLAN.

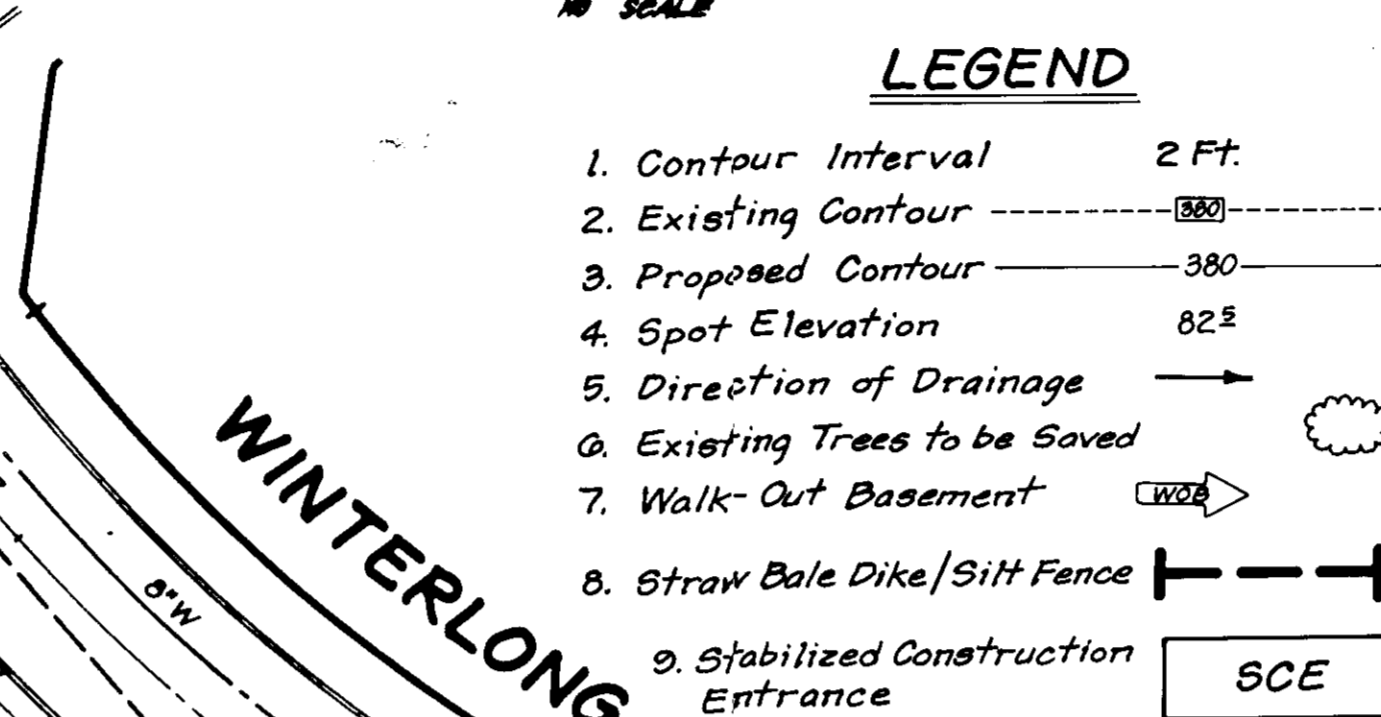
Approved 12-4-85
 Date



- CONSTRUCTION SPECIFICATIONS:**
- Stone size - Use 2" stone or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a simple 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 of 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 simple family residence lot.
 - 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' slope will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment into public rights-of-way. This may require periodic top dressing with additional stone or construction material and repair and/or cleaning of any measures used to trap sediment. All sediment trapped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Washing shall be obtained 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.

CONSTRUCTION SPECIFICATIONS:

- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a min. of 4" and placed so the bedding are horizontal.
- Bales shall be securely anchored in place by either 2 stakes or rebar driven thru the bale the length of each bale about 1/2 way down the perimeter. The stakes or rebar shall be placed in the soil a min. of 4" and placed so the bedding are horizontal.
- Inspectors shall be frequent and repair/replacements shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

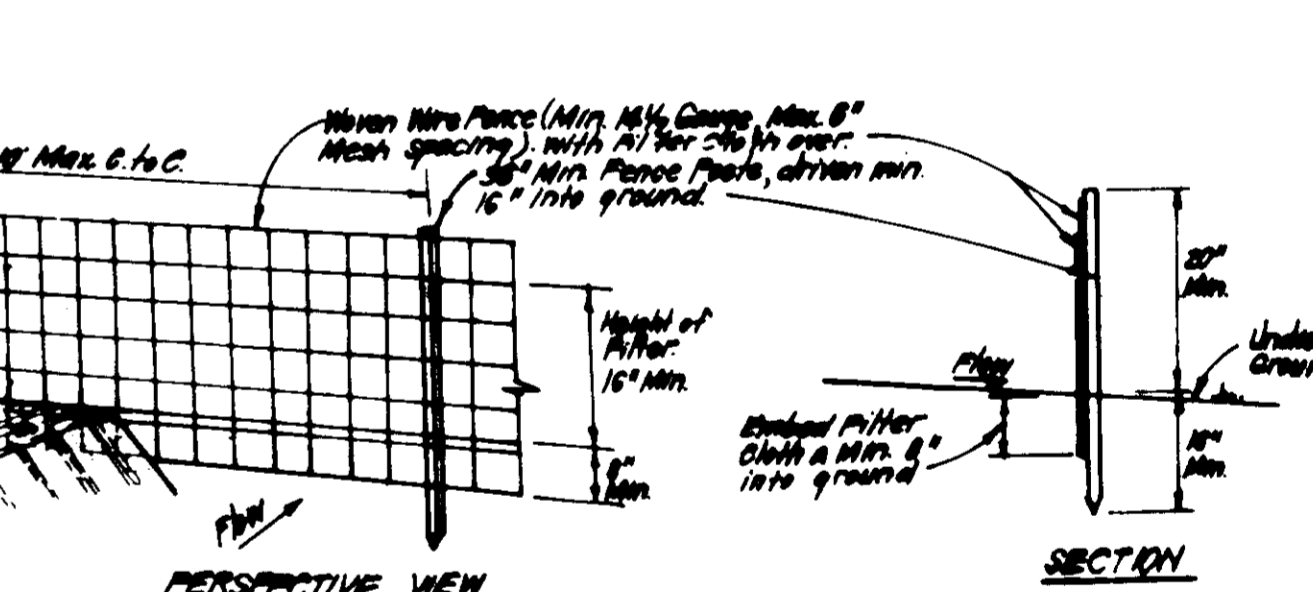


STABILIZED CONSTRUCTION ENTRANCE (SCE)
 NO SCALE

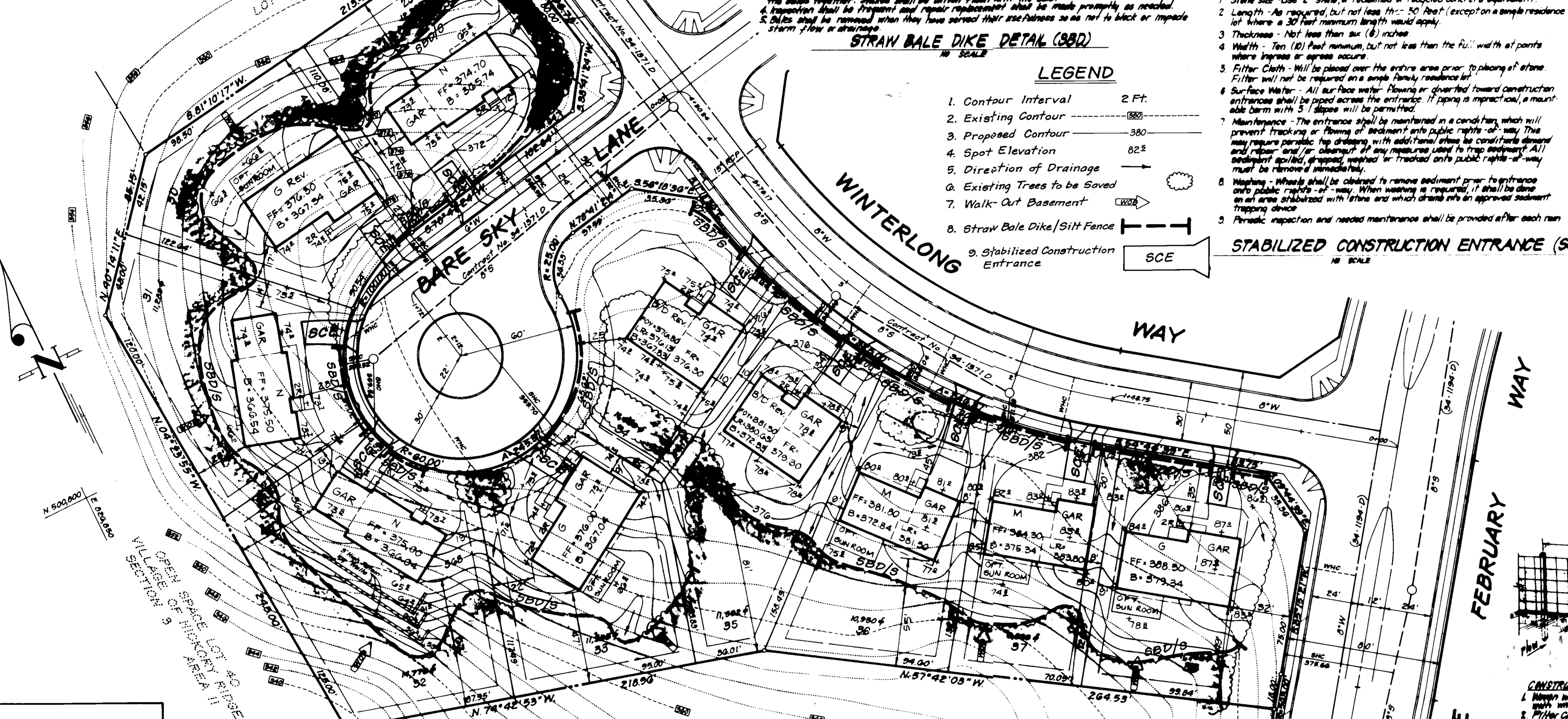
- SEDIMENT CONTROL NOTES**
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
 - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS 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 perimeter 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) 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 2.061 Acres
 Area to be roofed or paved 0.008 Acres
 Area to be vegetatively stabilized 1.044 Acres
 Total Cut 3421 Cu. yds
 Total Fill 1857 Cu. yds
 Offsite waste/borrow area location N/A
 - 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 DEW 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 least one Sediment Control as shown below shall be implemented.
 - All pipes to be blocked at the end of each day (see detail below).
 - The total amount of straw bale dikes/silt fence equals 1950 L.F.

CONSTRUCTION SEQUENCE:

Activity	Number of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	5
B. Excavate for foundations and Rough Grade of Remaining Structure.	20
C. Construct Structures, Sidewalks and Driveways.	60
D. Final Grade and stabilize in accordance with Stds. & Specs.	10
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	2



SILT FENCE DETAIL (S)
 NO SCALE



APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 11-6-85

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 DATE 12-11-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR
 DATE 12-12-85

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR
 DATE 12-4-85

CHIEF BUREAU OF ENGINEERING
 DATE 12-4-85

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.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- 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).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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 (.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 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 reseeds.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed 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.

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 24 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 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 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.

DEVELOPER'S/BUILDER'S CERTIFICATE

I hereby certify that all development and construction will be done in accordance with this plan, all sediment and erosion control and that all necessary erosion control and sediment control measures will be installed and maintained in accordance with the provisions of this plan and the provisions of the Howard County Sediment and Erosion Control Ordinance. I also authorize periodic on-site inspections by the Howard County Sediment Control Inspector or his authorized agents as and when necessary.

Signature of Developer/Builder
 B. JAMES GREENFIELD
 Date 10-11-85

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control is practical and workable, and based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Sediment and Erosion Control Ordinance.

Signature of Engineer
 B. Nelson Clark
 Date 10-11-85

SUBDIVISION NAME	COLUMBIA	SECT AREA	LOTS
VILLAGE OF HICKORY RIDGE	B/11	29-38	
PLAT #	6481	BLOCK #	10
WATER CODE	I-15	SEWER CODE	670000
TAXIDONE MAP FILED DIST	35	GENS/UTR	6053.01

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 583-3000

DESIGNED	GLB	SCALE	1"=30'
DRAWN	LAI <td>DRAWING</td> <td>2 of 2</td>	DRAWING	2 of 2
CHECKED	GLB <td>JOB NO.</td> <td>85-077</td>	JOB NO.	85-077
DATE	OCT. 1985	FILE NO.	85-077SE

FOR: COLUMBIA BUILDERS, INC.
 Three Lake Front North Building, Suite 200
 Columbia, Maryland 21044