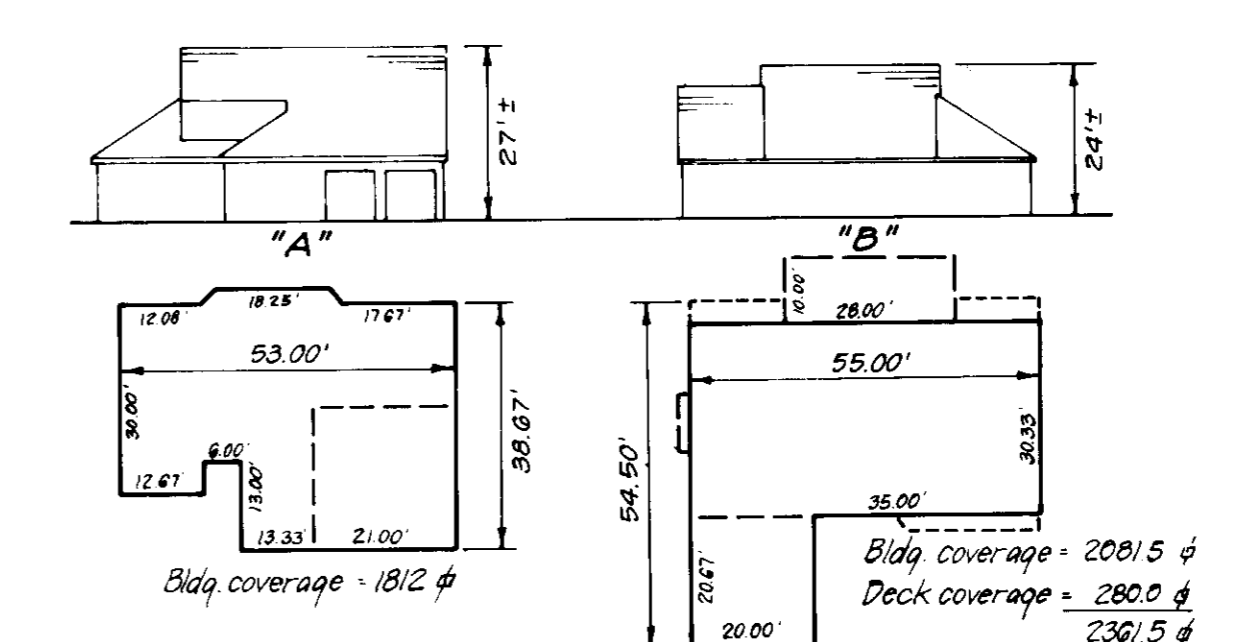


DRIVEWAY ABUTTING MOD. COMB. CURB AND GUTTER *

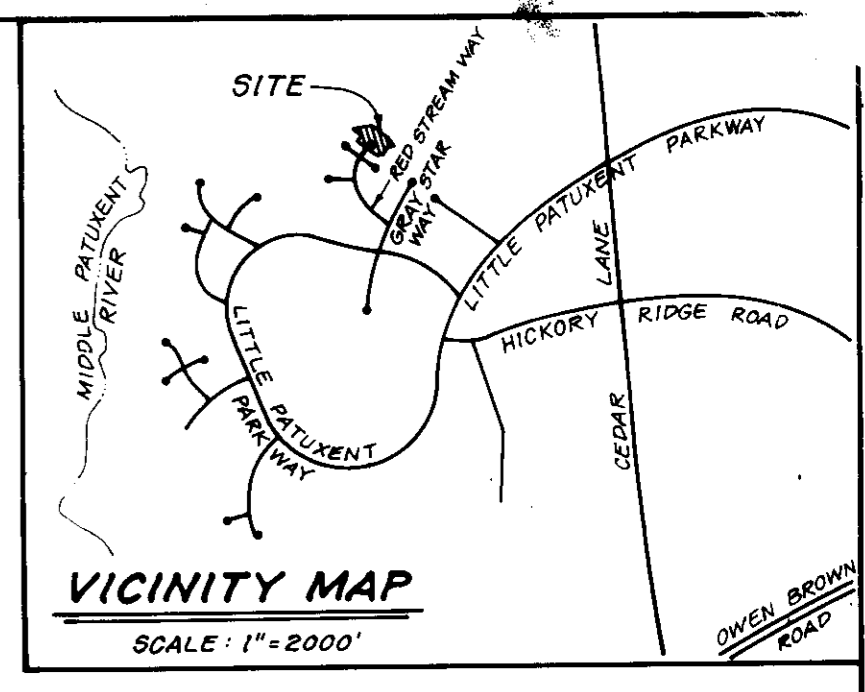
Alternate #1
1" Bit Conc. Surface
4" Bit Conc. Base

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 HOUSES
No Scale



GENERAL NOTES

- The Land included is zoned: New Town
- Coordinates are based upon traverse controls for Columbia established by Maps, Inc., in 1965 and Purdom & Ueschke in 1968, which controls were tied to the Maryland Bureau of Control Survey Monuments and to U.S. Coast and Geodetic Survey Monuments in the Columbia Area.
- All Roads are Public and Existing.
- Any damage to county owned rights-of-way to be corrected at the Developer's expense.
- Total area included: 1.403 Acres
- Total number of Lots: 7
- Stormwater Management provided for in central Facility in Village of Hickory Ridge, Sect 3 Area 1, previously approved plans F 83-120.

LEGEND

1. Contour Interval	2 Ft.
2. Existing Contour	--- 410 ---
3. Proposed Contour	--- 410 ---
4. Spot Elevation	+04.2
5. Direction of Drainage	→
6. Ex. Trees to be Saved	(Tree symbol)
7. Walk-out Basement	(WCB symbol)

ADDRESS CHART

LOT NO.	STREET	ADDRESS
32	1244	Red Stream Way
33	1248	" " "
34	1252	" " "
35	1256	" " "
36	1260	" " "
37	1264	" " "
38	1268	" " "

SUBDIVISION NAME	COLUMBIA VILLAGE OF HICKORY RIDGE	SECT./AREA	3/9	LOTS	32-38
PLAT #	G242	BLOCK #	4	ZONE	5th
WATER CODE	1-15	SEWER CODE	5585300		

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

COUNTY HEALTH OFFICER: [Signature] DATE: 11-27-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: [Signature] DATE: 11-27-85

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: [Signature] DATE: 11-27-85

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 11-27-85

APPROVED: DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 11-4-85



CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

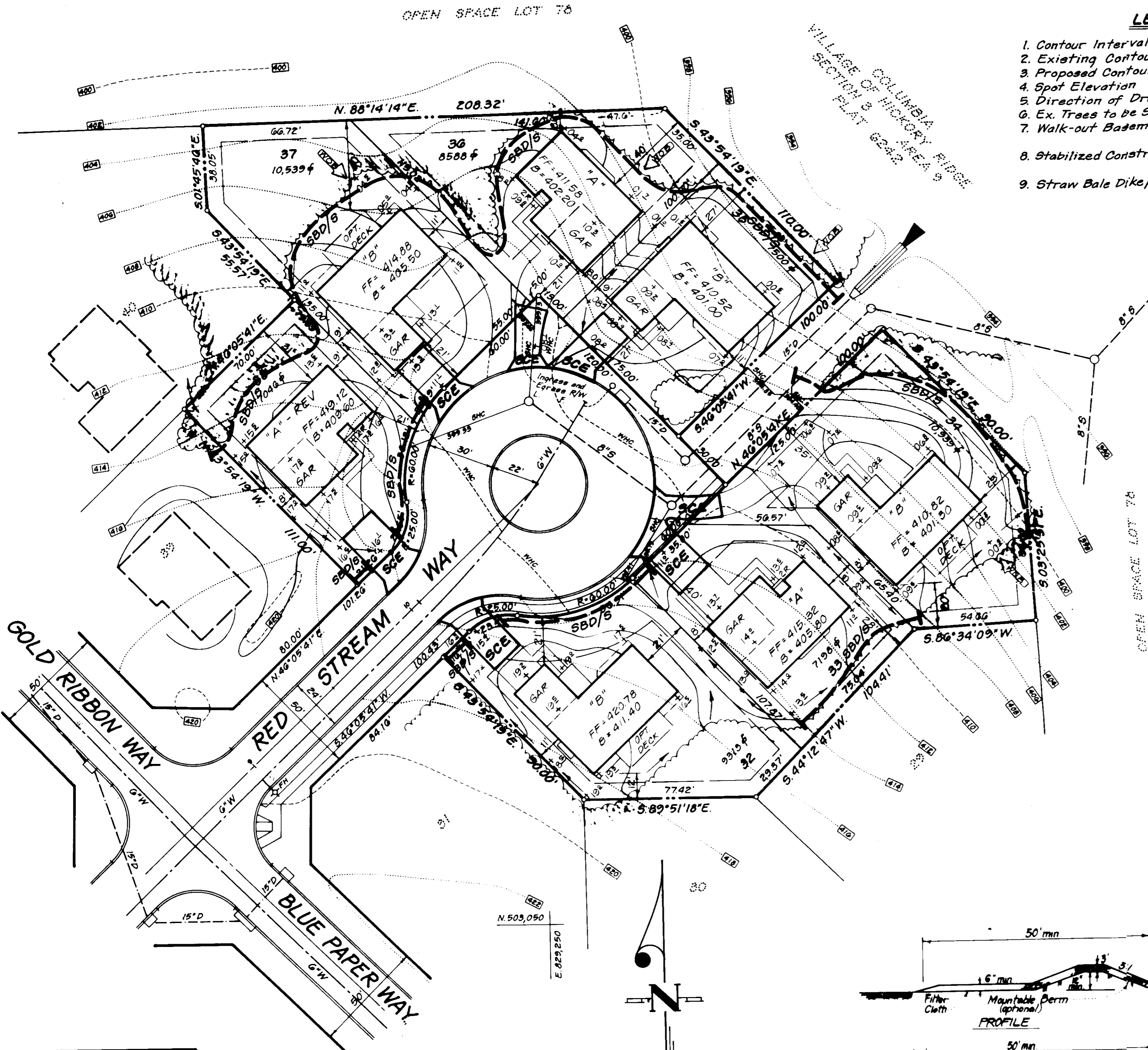
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED: BAF
DRAWN: LAI
CHECKED: JME, BAF
DATE: SEPT. 1985

SITE DEVELOPMENT PLAN
LOTS 32 THRU 38
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 9
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: WOODMAN HOMES 96 TROUTMAN CO.
Wild Lake Village Green, Suite 300
Columbia, Maryland 21044

SCALE: 1"=30'
DRAWING: 1 of 2
JOB NO.: 85-083
FILE NO.: 85-083-X



LEGEND

1. Contour Interval 2 Ft.
2. Existing Contour
3. Proposed Contour
4. Spot Elevation
5. Direction of Drainage
6. Ex. Trees to be Saved
7. Walk-out Basement
8. Stabilized Construction Entrance
9. Straw Bale Dike/Silt Fence

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded 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:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow 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. Narrow or disc into upper three inches of soil.

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 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.
- 4) 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.
- 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	1,409 Acres
Area Disturbed	1,199 Acres
Area to be roofed or paved	0.481 Acres
Area to be vegetatively stabilized	0.658 Acres
Total Cut	1,770 Cu. yds
Total Fill	1,780 Cu. yds
Offsite waste/borrow area location	N/A
- 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 DEP 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 840 L.F.

TEMPORARY SEEDING NOTES

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

Seeded 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 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.

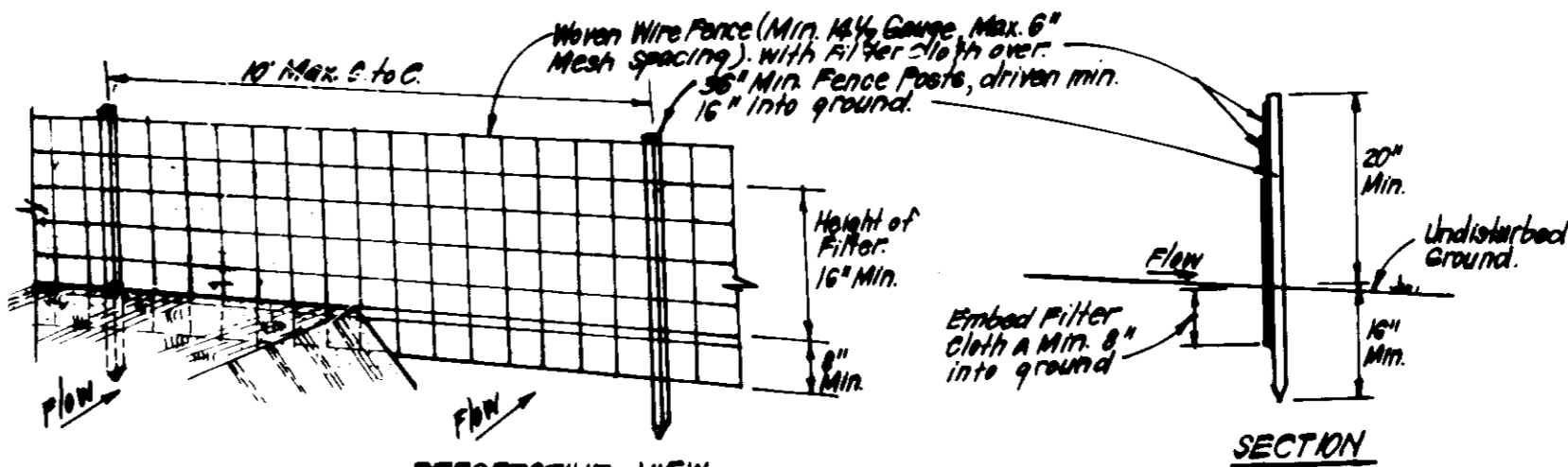
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

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

CONSTRUCTION SEQUENCE:

- | | No. of Days |
|---|-------------|
| A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize. | 5 |
| B. Excavate for Foundations, Rough Grade and temporarily stabilize. | 10 |
| C. Construct Structures, Sidewalks and Driveways. | 125 |
| 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 |



CONSTRUCTION SPECIFICATIONS:

1. When 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 4 ft and not over 1/2" from edge.
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 "bulges" develop in silt fence.

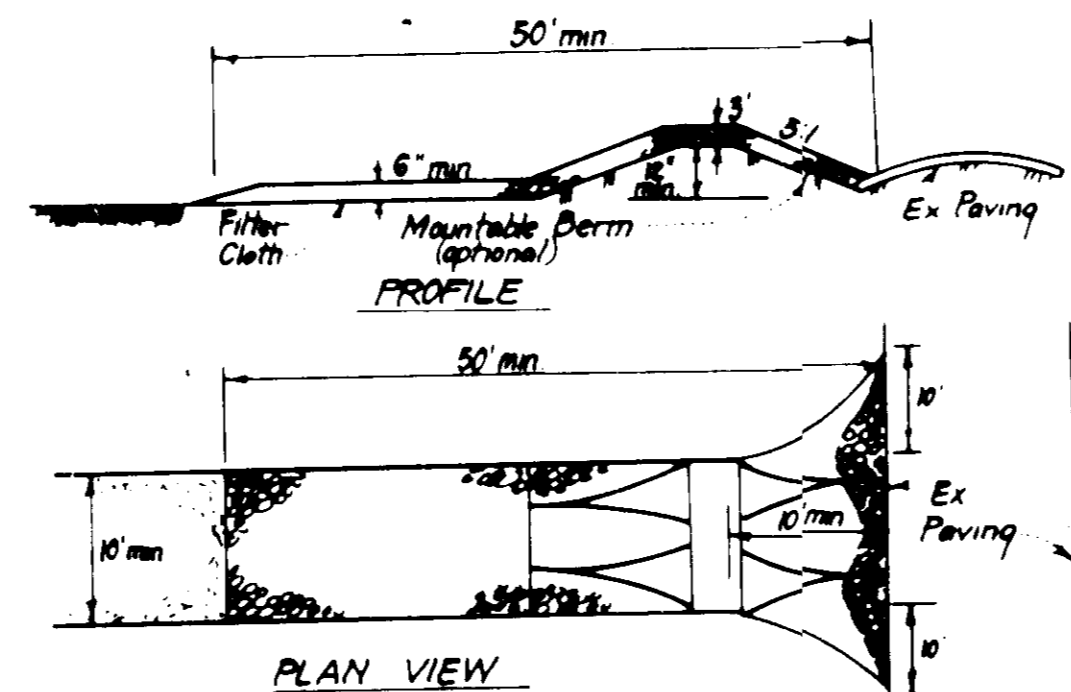
POSTS: Steel, either T or U Type or 2" Hardwood

FENCE: Woven Wire, 1 1/4" Gauge or Max. Mesh Opening

FILTER CLOTH: Filter Cloth, 100% Polypropylene, 100 Mesh, 1/2" Thick, 10' x 10' or Approved Equal

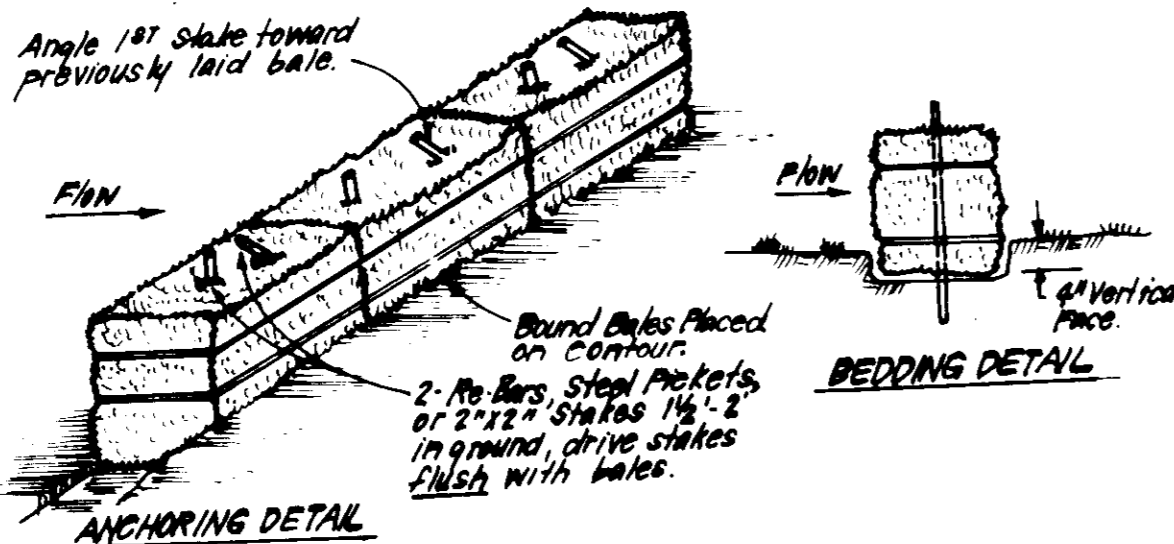
PREFABRICATED UNIT: See Detail

SILT FENCE DETAIL (9)
NO SCALE



- 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) Foot minimum, but not less than the full width at 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 3:1 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, be conditionally 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.
 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. 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.
 2. Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
 3. Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bales. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bales.
 4. Inspection shall be frequent and repair/replacement shall be made promptly as needed.
 5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE DETAIL (38D)
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY MARYLAND
DATE 11-4-85
M. H. HALL

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 11-27-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 11-27-85

DEVELOPER'S SUNDERS'S CERTIFICATE

"I certify that all development and construction will be done according to this subdivision and all soil erosion and sediment control and that all required measures required in the construction project will be installed and maintained in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 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."

Robert J. S. Baker 10-2-85
Signature Date

Reviewed for Howard S.C.D.
Name
Meets Technical Requirements
Signature Date 11-18-85
U.S. Soil Conservation Service

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

Stephen L. H. Baker 11/18/85
Approved Date

SUBDIVISION NAME	COLUMBIA	SECT./AREA	LOTS
VILLAGE OF HICKORY RIDGE	5/9	32-36	
PLAT #	6242	BLOCK #	35
WATER CODE	1-15	SEWER CODE	5585300

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS			
DESIGNED	GLB	SCALE	1"=30'
DRAWN	LAI	DRAWING	2 of 2
CHECKED	GLB	JOB NO.	85-089
DATE	SEPT. 1985	FILE NO.	85-089 SE

FOR: WOODMAN HOMES 96 TROUTMAN CO.
Wide Lake Village Green, Suite 300
Columbia, Maryland 21044

SDP-86-83c