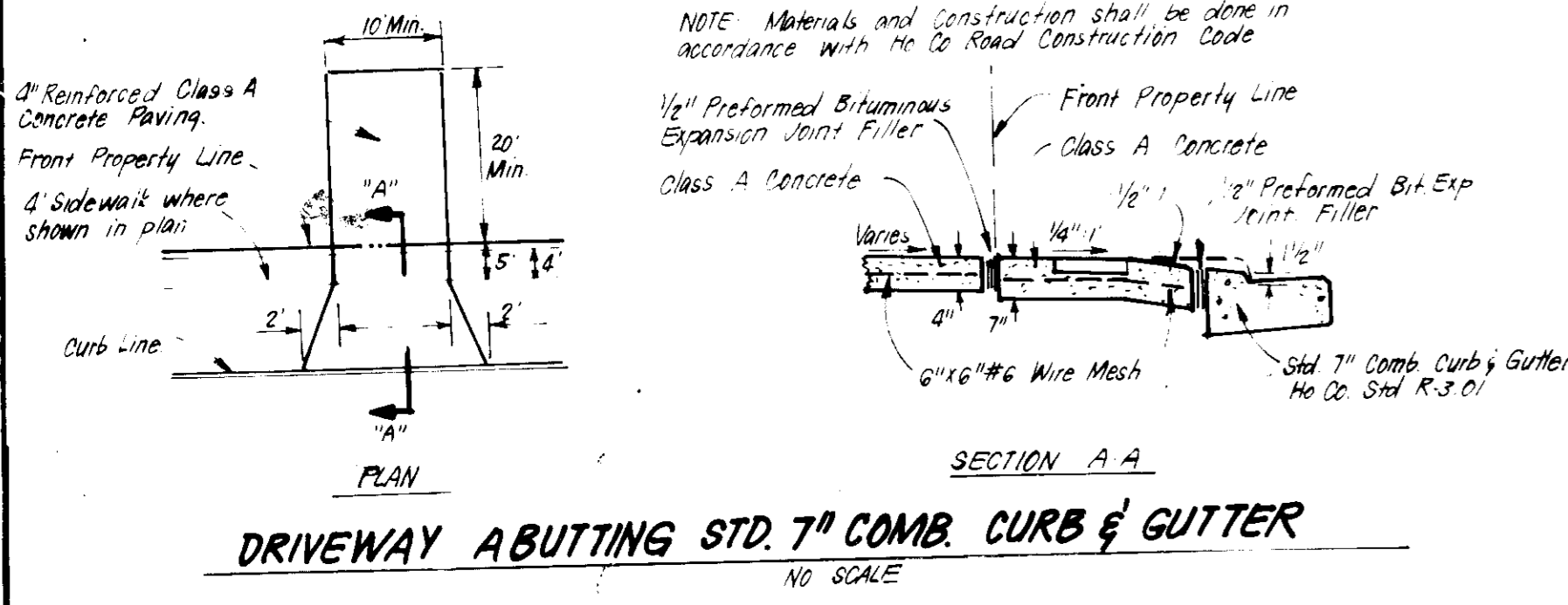


NOTE: 679'± grading taken from previously approved Rd Const Plans E 63-120.

VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 3 & 5
PLATS 5720 & 5542



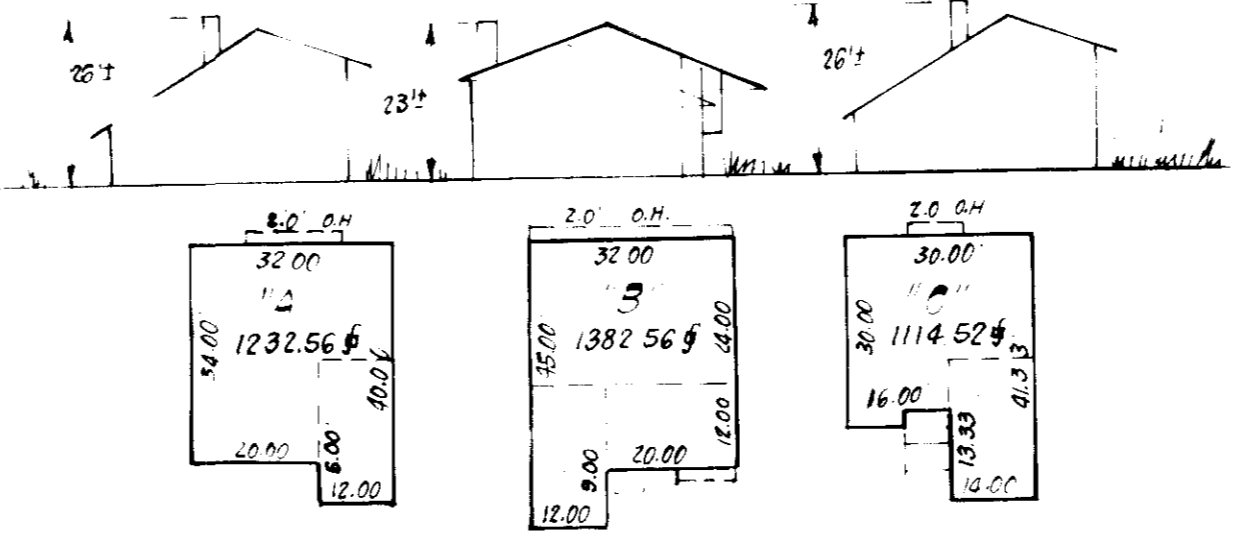
NOTE: Materials and Construction shall be done in accordance with the Co. Road Construction Code.

GENERAL NOTES:

1. The land is zoned: N.T. S.F.M.D., FDP, Pts 181, Pt III, Plat # 3054A-693 thru 705
2. Coordinates are based upon traverse controls for Columbia established by Maps Inc. in 1965 and Purdum & Deschke in 1968, which controls were tied to the Maryland Bureau of Control Survey Monuments in the Columbia Area
3. All Roads are Privately owned & Maintained
4. Any damage to county owned rights of way to be corrected at the developer's expense
5. Total Area included: 1.838 Acres
6. Total Number of Lots: 15
7. Storm Water Mgmt. provided in central Facility VCHR 31, F 83-120

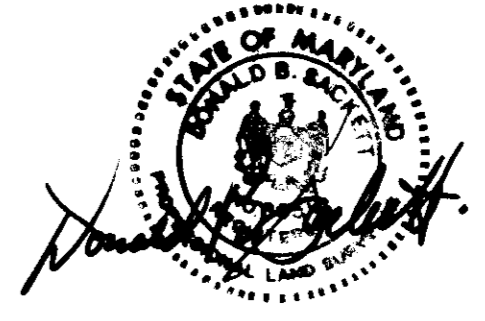
LEGEND:

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



ADDRESS CHART

LOT NO.	STREET ADDRESS
66 3/2	12051 LITTLE PATUXENT PKWY
67 3/2	12055 " " " "
68 3/2	12059 " " " "
69 3/2	12063 " " " "
70 3/2	12067 " " " "
71 3/2	12071 " " " "
72 3/2	12135 " " " "
69 3/2	12131 " " " "
10 3/2	12127 " " " "
71 3/2	12123 " " " "
72 3/2	12119 " " " "
73 3/2	12115 " " " "
74 3/2	12111 " " " "
75 3/2	12105 " " " "
76 3/2	12101 " " " "



SUBDIVISION NAME	COLUMBIA	SECT./AREA	3 / 3	LOTS	66 THRU 76
PLAT #	6239	BLOCK #	4	TAX/ZONE MAP ELEC DIST	5TH
	6240				6053.01
WATER CODE	I-15	SEWER CODE	6730300		5565300

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 10-16-85

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 10-21-85

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 10-14-85

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 9-4-85

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11317 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED: BAF
DRAWN: BAF, KIW
CHECKED: JWF, BAF
DATE: 8-13-85

SITE DEVELOPMENT PLAN
LOTS 66 THRU 71, SECTION 3 AREA 7
LOTS 68 THRU 76, SECTION 3 AREA 9

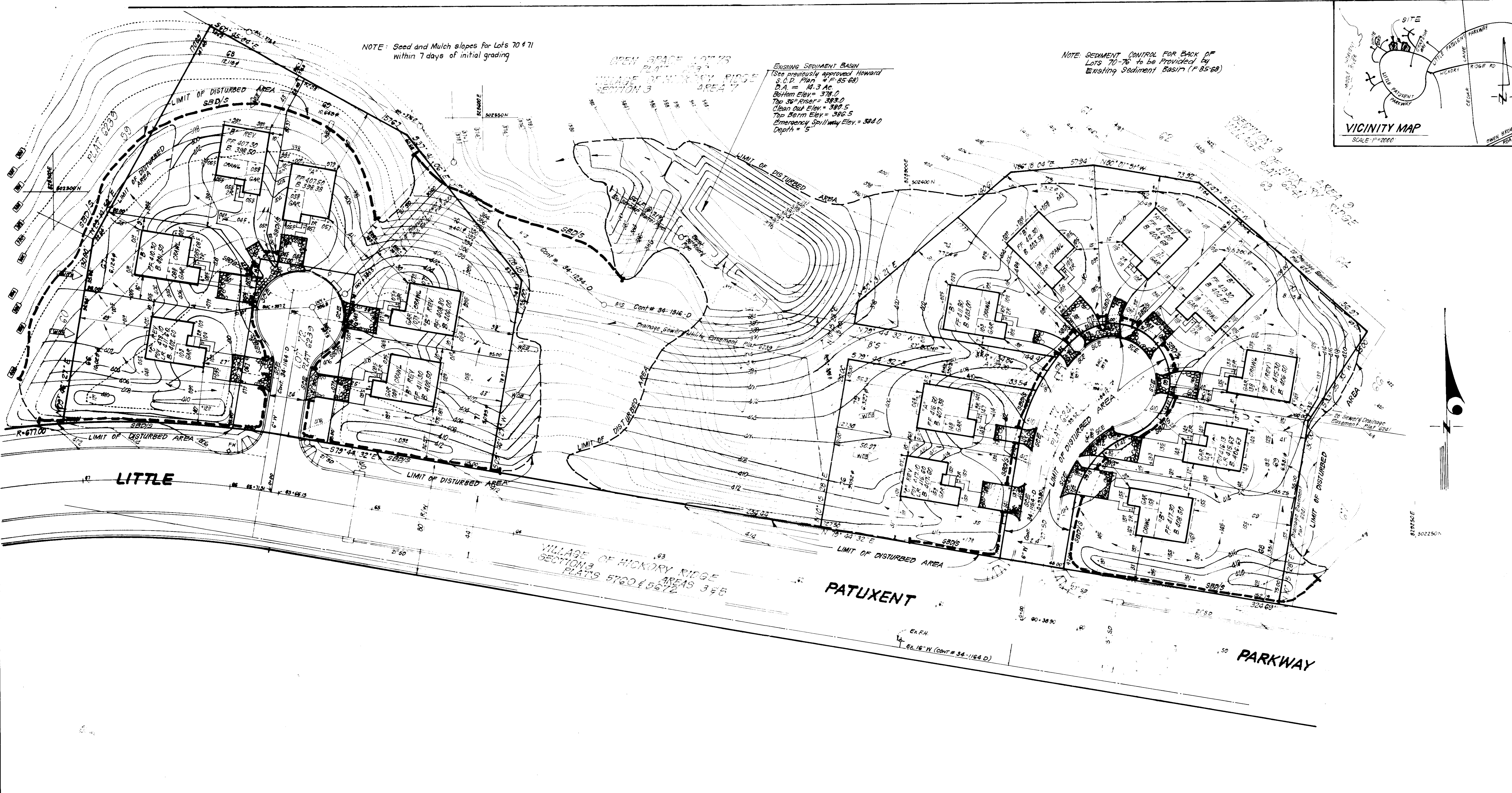
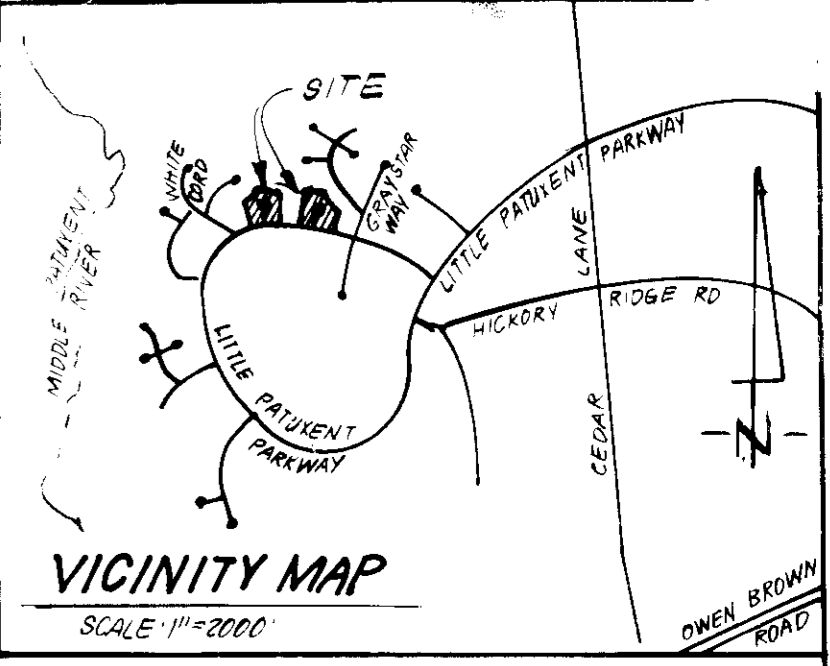
COLUMBIA
VILLAGE OF HICKORY RIDGE
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: ALLAN HOMES, INC.
P.O. Box 1058
Columbia, Md 21044

SCALE: 1"=30'
DRAWING: 10F 3
JOB NO: 85-089
FILE NO: 85-089-1

NOTE: Seed and Mulch slopes for Lots 70 & 71 within 7 days of initial grading

NOTE: SEDIMENT CONTROL FOR BACK OF Lots 70-76 to be provided by Existing Sediment Basin (P-85-68)



- LEGEND:**
- 1. Contour Interval 2.0'
 - 2. Existing Contour
 - 3. Proposed Contour
 - 4. Spot Elevation
 - 5. Storm Drainage
 - 6. Walk Out Basement
 - 7. Straw Bale Dike or Silt Fence
 - 8. Stabilized Construction Entrance

Reviewed for: *Howard...* S.C.
 Name: *Howard...*
 Signature: *Howard...* Date: *10/1/85*
 U.S. Soil Conservation Service
 APPROVED
Stephen... Approved Date: *10/1/85*

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 erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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 of Developer/Builder: *Richard J.H. Stepp* Date: *8-16-85*

ENGINEER'S CERTIFICATE
 I/We certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature: *Richard J.H. Stepp* Date: *8-15-85*

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 Director: *John W. Muschman* Date: *10-16-85*
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND ZONING
 HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Director: *John W. Muschman* Date: *10-21-85*
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *John W. Muschman* Date: *10-18-85*

9-4-85
John W. Muschman

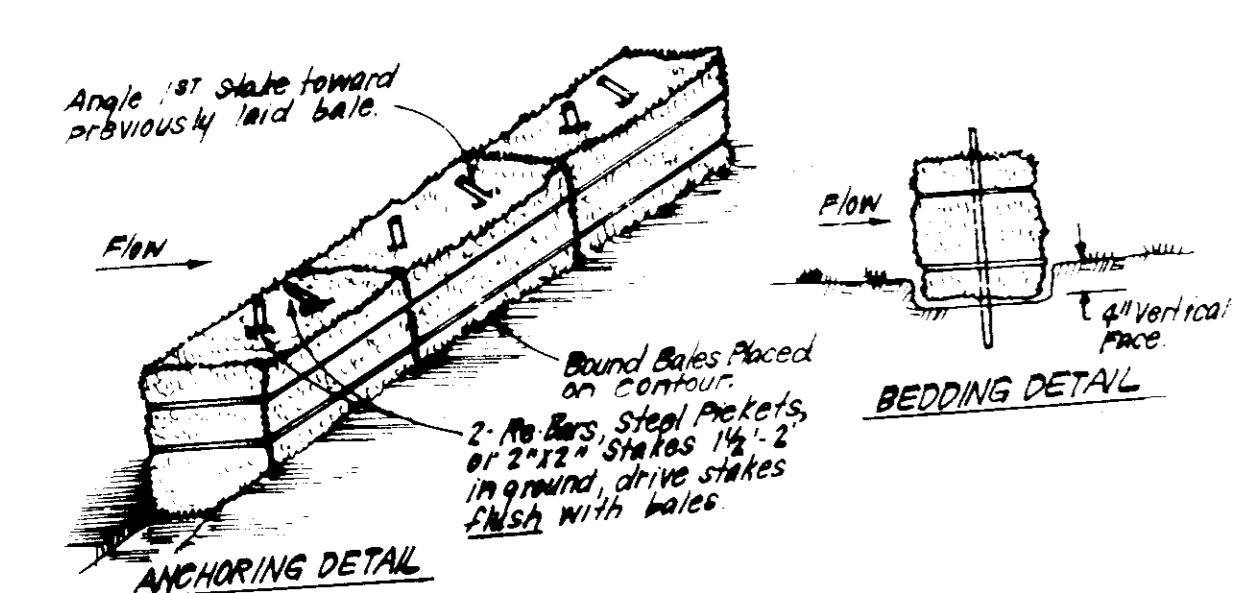
CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11311 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904

SEDIMENT/EROSION CONTROL PLAN
 LOTS 66 THRU 71, SECTION 3 AREA 7
 LOTS 68 THRU 76, SECTION 3 AREA 3

COLUMBIA
 VILLAGE OF HICKORY RIDGE
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: ALLAN HOMES, INC.
 P.O. Box 1059
 Columbia, Md 21044
 S.D.P. 86-41C

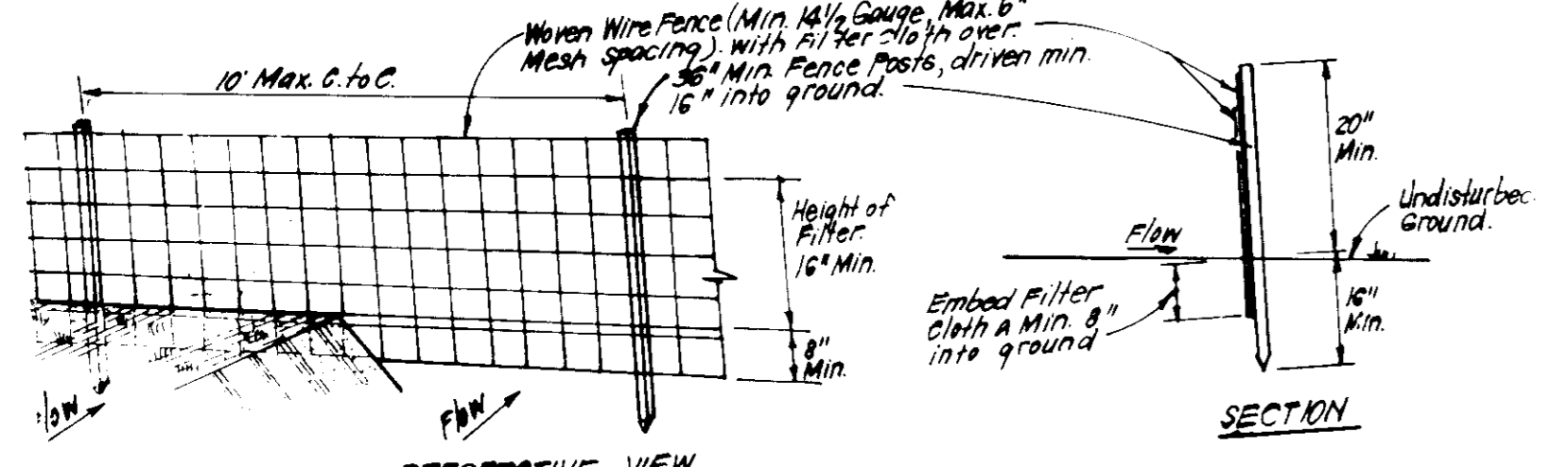
DESIGNED: *GLB*
 DRAWN: *BAF*
 CHECKED: *KIW*
 DATE: *8-3-85*

SCALE: *1"=30'*
 DRAWING: *2 OF 3*
 JOB NO: *85-089*
 FILE NO: *85-089-SE*



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 bindings are horizontal.
 Bales shall be secured in place by either 2 stakes or re-bars driven thru the bale.
 The 1st stake in each bale shall be driven through the bedding.
 The bales shall be secured together. Stakes shall be made promptly as needed.
 Inspection shall be frequent and repair replacement 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.

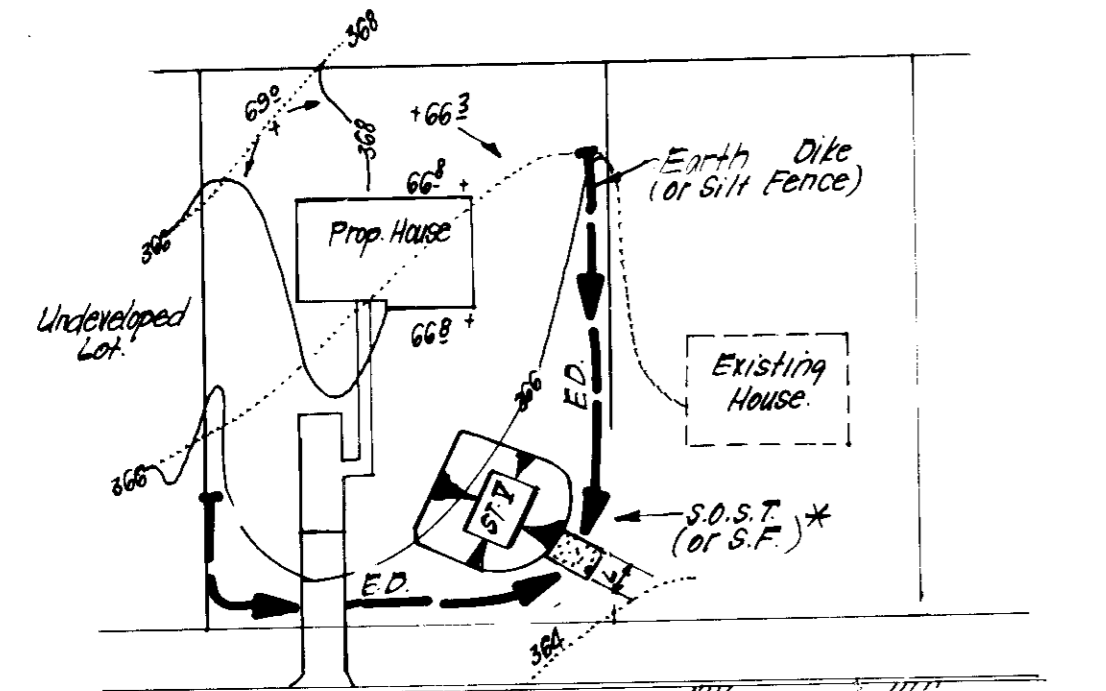
STRAW BALE DIKE DETAIL (SBD)
NO SCALE



CONSTRUCTION SPECIFICATIONS:
 1. Woven 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 24" at top and mid section.
 3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and 40 lbs. of stone shall be placed over the overlap.
 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" x 4" Hardwood
 FENCE: Woven Wire, 1/4" Gauge, 6" Max. Mesh Opening
 FILTER CLOTH: Filter Cloth, 1/2" Thick, 16" High, 1/2" Thick, 16" High, 1/2" Thick, 16" High
 PREFABRICATED UNIT: Geotextile, Envirofence, or Approved equal

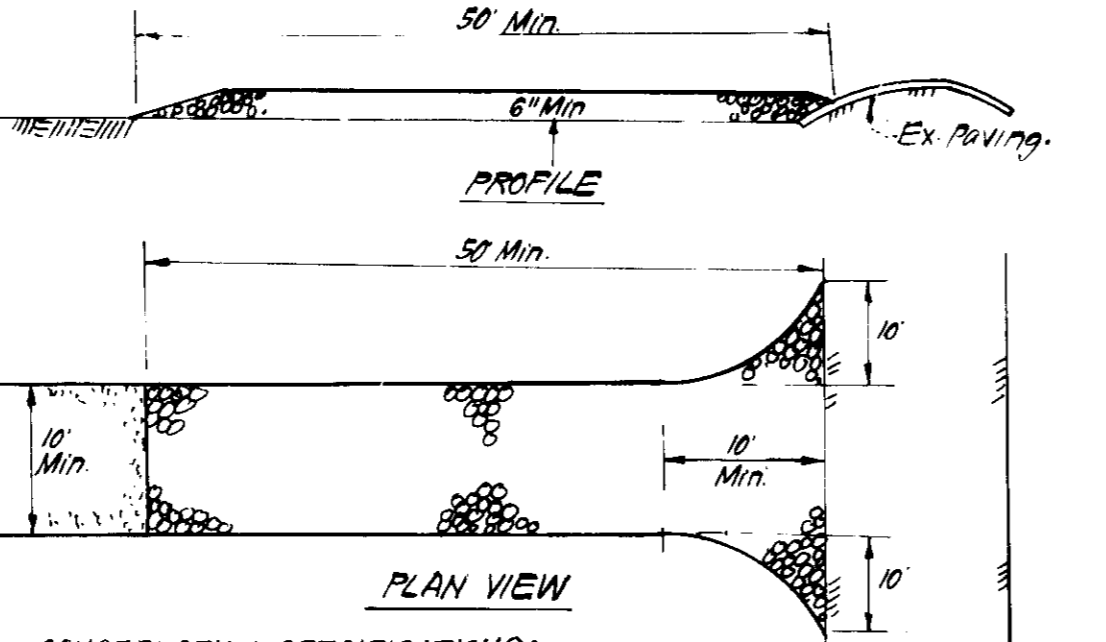
SILT FENCE DETAIL (S)
NO SCALE



* NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap.

Lot No.	Lot Size (S.F.)	Lot Area (S.F.)	Lot Area (Ac)
1	11,111	11,111	0.255
2	11,111	11,111	0.255
3	11,111	11,111	0.255
4	11,111	11,111	0.255
5	11,111	11,111	0.255
6	11,111	11,111	0.255
7	11,111	11,111	0.255
8	11,111	11,111	0.255
9	11,111	11,111	0.255
10	11,111	11,111	0.255
11	11,111	11,111	0.255
12	11,111	11,111	0.255
13	11,111	11,111	0.255
14	11,111	11,111	0.255
15	11,111	11,111	0.255
16	11,111	11,111	0.255
17	11,111	11,111	0.255
18	11,111	11,111	0.255
19	11,111	11,111	0.255
20	11,111	11,111	0.255

SINGLE LOT SEDIMENT CONTROL PLAN
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 130' min. length would apply).
 3. Thickness - Not less than 6".
 4. Width - Ten foot min, but not less than the full width at point where ingress of debris occur.
 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.
 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 and/or cleanup of any measures used to trap sediment. All sediment spilled and repair and/or cleanup of any measures used to trap sediment. All sediment spilled and repair and/or cleanup of any measures used to trap sediment. All sediment spilled and repair and/or cleanup of any measures used to trap sediment.

STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)
NO SCALE

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 redisturbance, 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) and temporary seedings (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	2.7619 Acres
Area Disturbed	2.5832 Acres
Area to be roofed or paved	0.7047 Acres
Area to be vegetatively stabilized	2.8786 Acres
Total Cut	Cu. yds
Total Fill	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 DPW 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-Built" 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). N/A
- 13) The total amount of straw bale dikes/silt fence equals 1530 L.F.

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
- 1) 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. 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.

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 reseedsings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed 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.

CONSTRUCTION SEQUENCE

- | | NO OF DAYS |
|--|------------|
| 1. Obtain Grading Permit. | 2 |
| 2. Install sediment & erosion control measures, utilizing existing sediment basin as shown in plans. | 30 |
| 3. Clear & rough grade site. | 30 |
| 4. Construct houses & driveways. | 200 |
| 5. Fine grade site and stabilize all disturbed areas in accordance w/stds. & specs. | 30 |
| 6. Remove all sediment control devices and stabilize all remaining disturbed areas in accordance w/stds. & specs. (including existing sediment basin). | 15 |
- * Seed and Mulch slopes for Lots 70 & 71 within 7 days of initial grading.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 10-16-85
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 10-10-85
 DATE

APPROVED
 PLANNING AND ZONING
 HOWARD COUNTY
 9-4-85
 DATE

Reviewed for Howard S.C.D.
 Name: Howard S.C.D.
 Date: 10/17/85
 U.S. Soil Conservation Service
 DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved: [Signature] Date: 10/16/85

DEVELOPER'S CERTIFICATE
 I hereby certify that all details and construction will be done according to this plan for development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
 [Signature] Date: 8-16-85

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment 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] Date: 8-15-85

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 543-3400

DESIGNED	GLB	SCALE	1"=30'
DRAWN	BAF	DRAWING	3 AF3
CHECKED	GLB	JOB NO.	85-089
DATE	8-13-85	FILE NO.	85-089-SL

SEDIMENT & EROSION CONTROL PLAN
 LOTS 66 THRU 71, SECTION 3 AREA 7
 LOTS 68 THRU 76, SECTION 3 AREA 9
COLUMBIA
 VILLAGE OF HICKORY RIDGE
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOX: ALLAN HOMES, INC.
 P.O. Box 1058
 Columbia, Md 21044

S.D.P. 86-410