

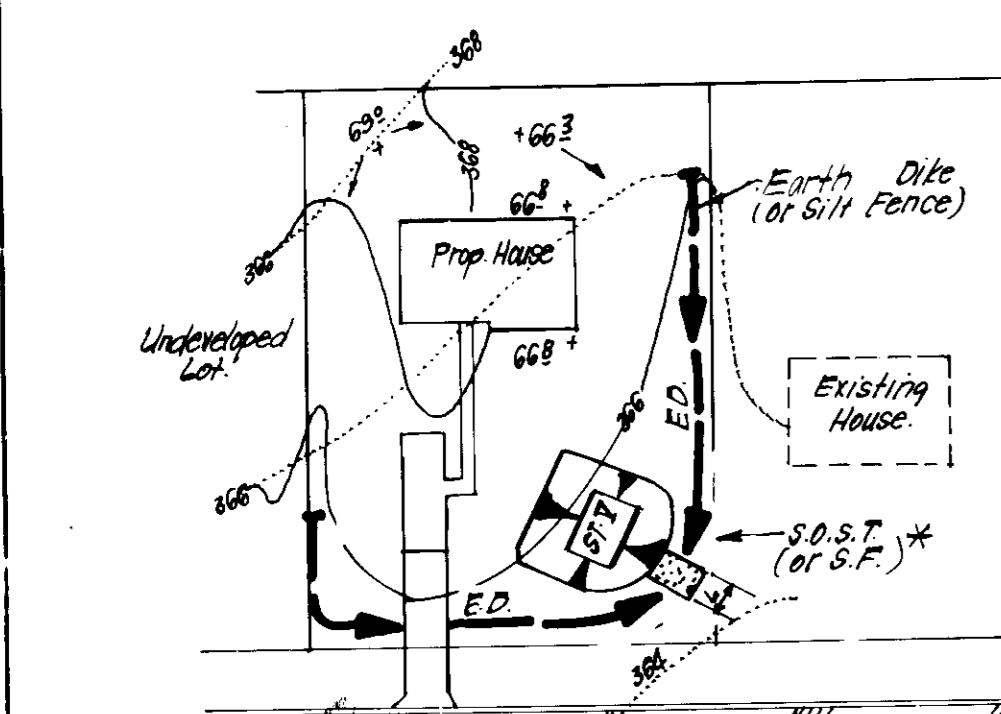
SEDIMENT CONTROL

- 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 performance 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 11, 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 does not allow for proper permit 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	0.584 Acres
Area Disturbed	0.433 Acres
Area to be roofed or paved	0.166 Acres
Area to be vegetatively stabilized	0.287 Acres
Total Cut	422 Cu. yds
Total Fill	622 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 DPW 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 lot sediment control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below). N/A
- The total amount of straw bale dikes/silt fence equals 450 L.F.

Activity	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	4
B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.	10
C. Construct Structures, Sidewalks and Driveways.	50
D. Final Grade and stabilize in accordance with Stds. & Specs.	2
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	2



Property	Area	Depth	Length	Width	Area
1	12.10	2'	26'	36'	676.8
2	12.10	2'	26'	36'	676.8
3	12.10	2'	26'	36'	676.8
4	12.10	2'	26'	36'	676.8
5	12.10	2'	26'	36'	676.8
6	12.10	2'	26'	36'	676.8
7	12.10	2'	26'	36'	676.8
8	12.10	2'	26'	36'	676.8
9	12.10	2'	26'	36'	676.8
10	12.10	2'	26'	36'	676.8
11	12.10	2'	26'	36'	676.8
12	12.10	2'	26'	36'	676.8
13	12.10	2'	26'	36'	676.8
14	12.10	2'	26'	36'	676.8
15	12.10	2'	26'	36'	676.8
16	12.10	2'	26'	36'	676.8
17	12.10	2'	26'	36'	676.8
18	12.10	2'	26'	36'	676.8
19	12.10	2'	26'	36'	676.8
20	12.10	2'	26'	36'	676.8

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

12-27-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

12-31-85

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

12-3-85

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.

Seeded Preparation: Loosen upper three inches of soil by raking, disking 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 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 500 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 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 rotted 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.

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.

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

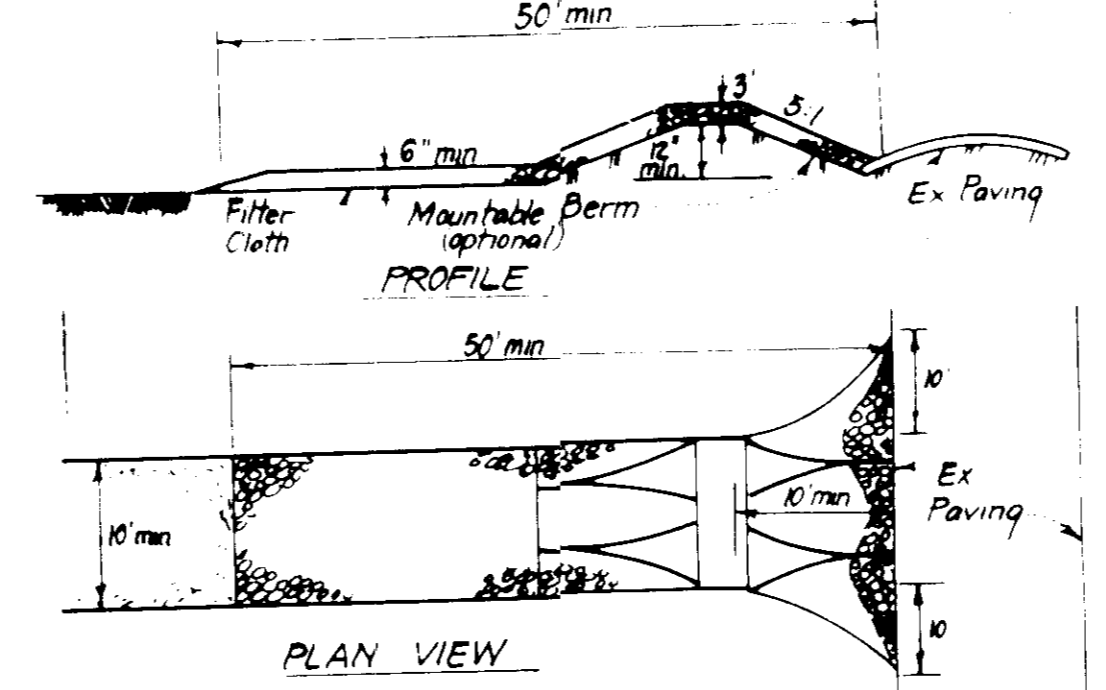
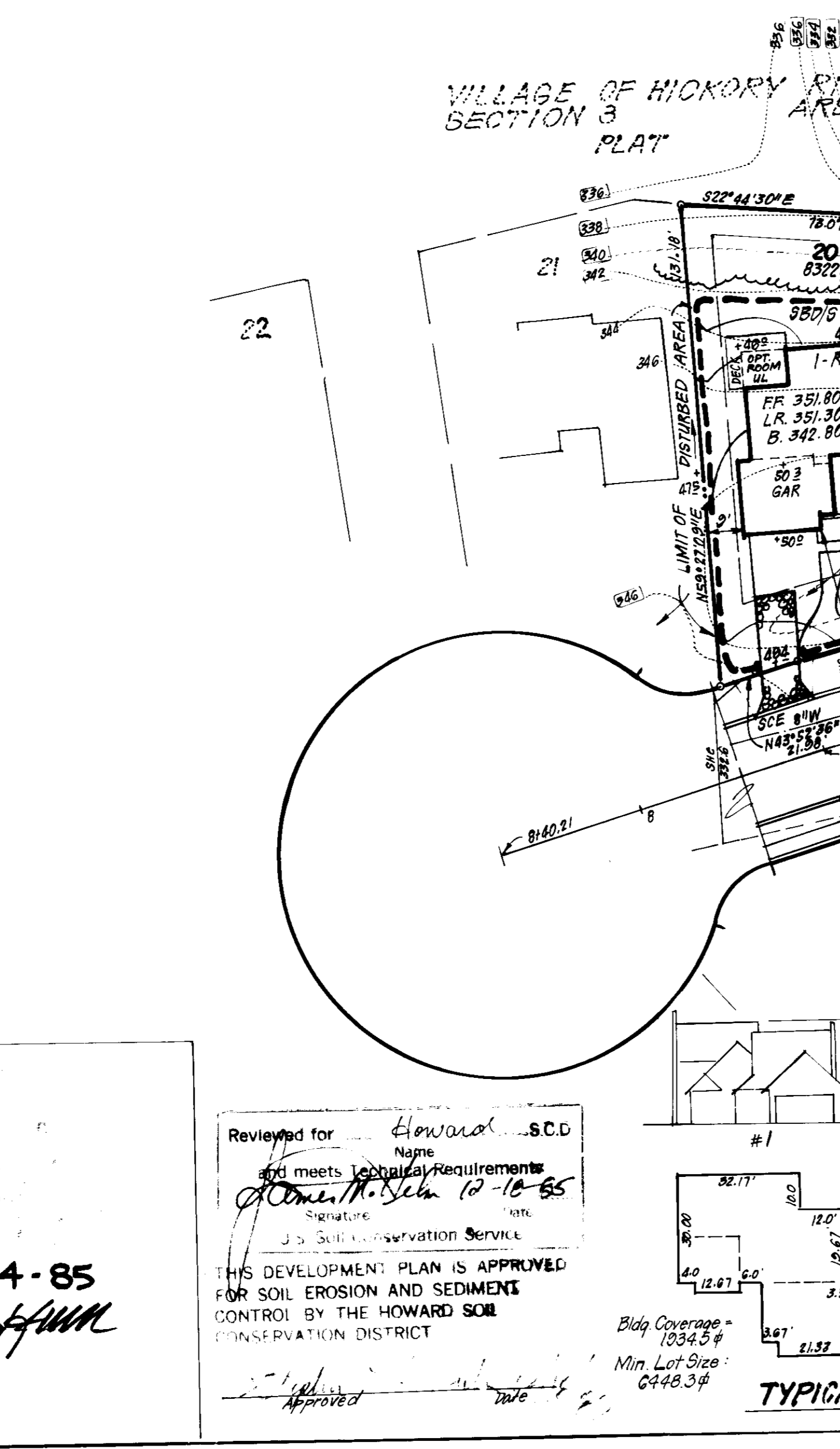
Soil Amendment: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

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 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 rotted 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.

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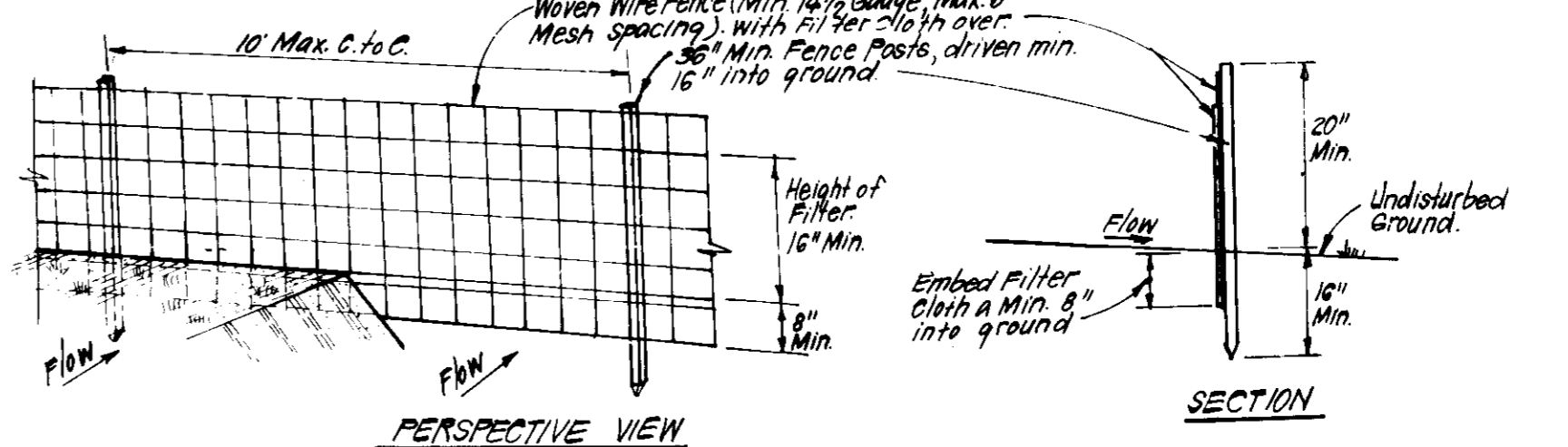


CONSTRUCTION SPECIFICATIONS:

- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet, except on a 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 piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- 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, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- 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.
- Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE



CONSTRUCTION SPECIFICATIONS:

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
- When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and material removed when "bulges" develop in Silt Fence.

POSTS: Steel either T or U type or 2" Round Wood
 FENCE: Woven Wire, 14 1/2 Gauge
 6" Max. Mesh Opening
 FILTER CLOTH: Filter X, Miraf 100X, Stabilink, T140N or Approx. equal
 PREFABRICATED UNIT: Geofab, Envirofence, or Approx. equal

SILT FENCE DETAIL (S)

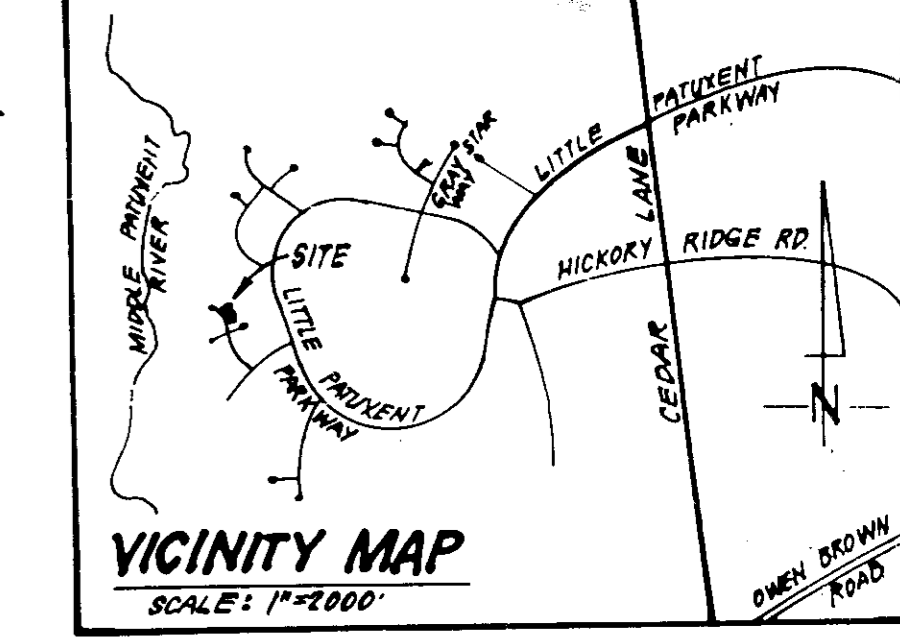
NO SCALE

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 securely anchored in place by either 2 stakes or rebar's driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale of the bales together. Stakes shall be driven flush with the bale.
- 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



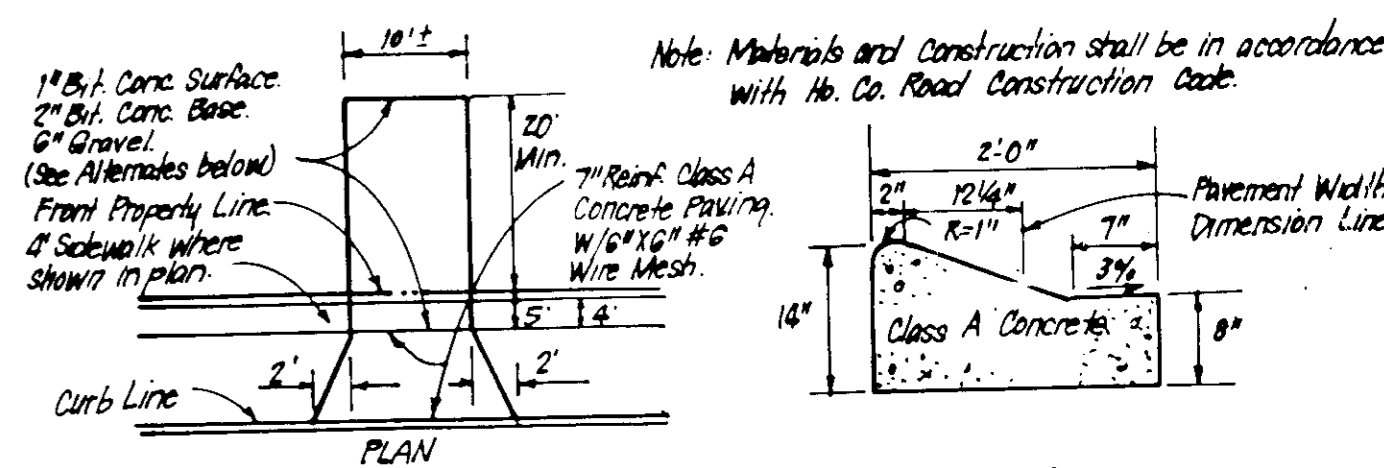
GENERAL NOTES:

- The land included is zoned New Town, SFMD as per approved F.D.P. Phase 1B1 Part III.
- Coordinates are based upon traverse controls for Columbia established by Maps Inc. in 1965 and Fugate Research in 1966, 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: 0.584 Acres.
- Total Number of Lots: 3

NOTE: The contractor or developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work, at 792-1278.

LEGEND:

- Contour Interval - 2 Ft.
- Existing Contour - Dashed line
- Proposed Contour - Solid line
- Spot Elevation - 410, 415, 420, 425
- Direction of Drainage - Arrow
- Existing Trees to be Saved - Tree symbol
- Walk Out - Basement - SBD/S
- Straw Bale Dike or SCE
- Stabilized Construction Entrance - SCE



ALTERNATE #1: 1" Bl. Conc. Surface, 4" Bl. Conc. Base

ALTERNATE #2: 1" Bl. Conc. Surface, 3" Bl. Conc. Base

* See H.C. Std. R.3.01 for 8' x 7" Comb. Curb & Gutter necessary on the Cut-De-Sec.

LOT NO.	STREET ADDRESS
18	11824 Winterlong Way
19	11830 " "
20	11834 " "

DEVELOPER'S/BUILDER'S CERTIFICATE

I, the undersigned, hereby 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.

John F. McDonough III, 11-6-85

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.

John F. McDonough III, 11-5-85

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 583-3400

DESIGNED	SCALE
BAF	1"=30'
DRAWN	DRAWING
HIW	10/1
CHECKED	JOB NO.
JME	85-124
DATE	FILE NO.
11-5-85	85-124

COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 11
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: J. McDONOUGH BUILDERS, INC.
 630 Stevens Forest Rd. #104
 Columbia, Md. 21044

SDP-86-107C