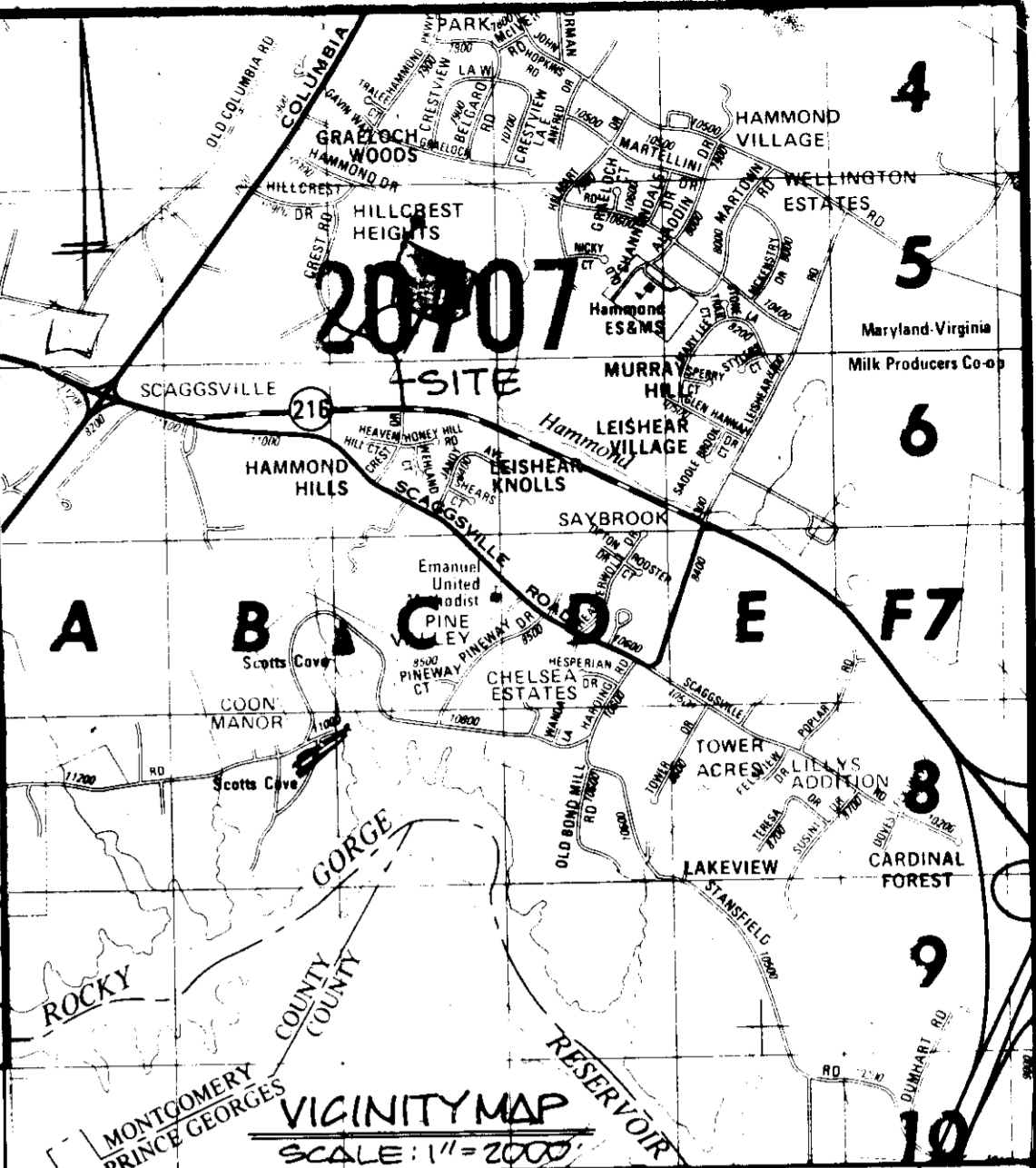


DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY
 DATE 12-2-86

HAMMOND HILLS ASSOCIATES
 L.1399 F.486
 R-20

LOT NO	STREET ADDRESS
61	8218 SLIPPERY ROCK WAY
62	8214 " " "
63	8210 " " "
64	8206 " " "
65	8202 " " "
66	8201 RIPPLING BRANCH RD
67	8205 " " "
68	8209 " " "
69	8213 " " "
70	8217 " " "
71	8221 " " "
72	8212 " " "
73	8208 " " "
74	8237 HAMMOND BRANCH WAY
75	8241 " " "
76	8245 " " "



- CONSTRUCTION SEQUENCE
1. Obtain Grading Permits.
 2. Install sediment controls.
 3. Clear site.
 4. Strip and stockpile topsoil.
 5. Excavate for foundation.
 6. Pour footings.
 7. Install foundation walls.
 8. Install utilities.
 9. Backfill foundation.
 10. Rough grade site.
 11. Install walks and drive.
 12. Fine grade site.
 13. Landscape.
 14. Stabilize site.

Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
 1) Seven (7) calendar days for all perimeter sediment control structures, dikes, swales, ditches, perimeter slopes and all slopes greater than 3:1, 2) Fourteen (14) days as to all other disturbed or graded areas on the project site.

NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-7272.

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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."

DATE

ENGINEER 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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

DATE 3/26/87

ENGINEER - NEZU SCHWARTZ

REVIEWED FOR HOWARD COUNTY S.C.D. NAME AND METS TECHNICAL REQUIREMENTS

DATE 4-1-87

U.S. SOIL CONSERVATION SERVICE

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

DATE 4-1-87

HOWARD S.C.D.

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

DATE 4-8-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE 4-9-87

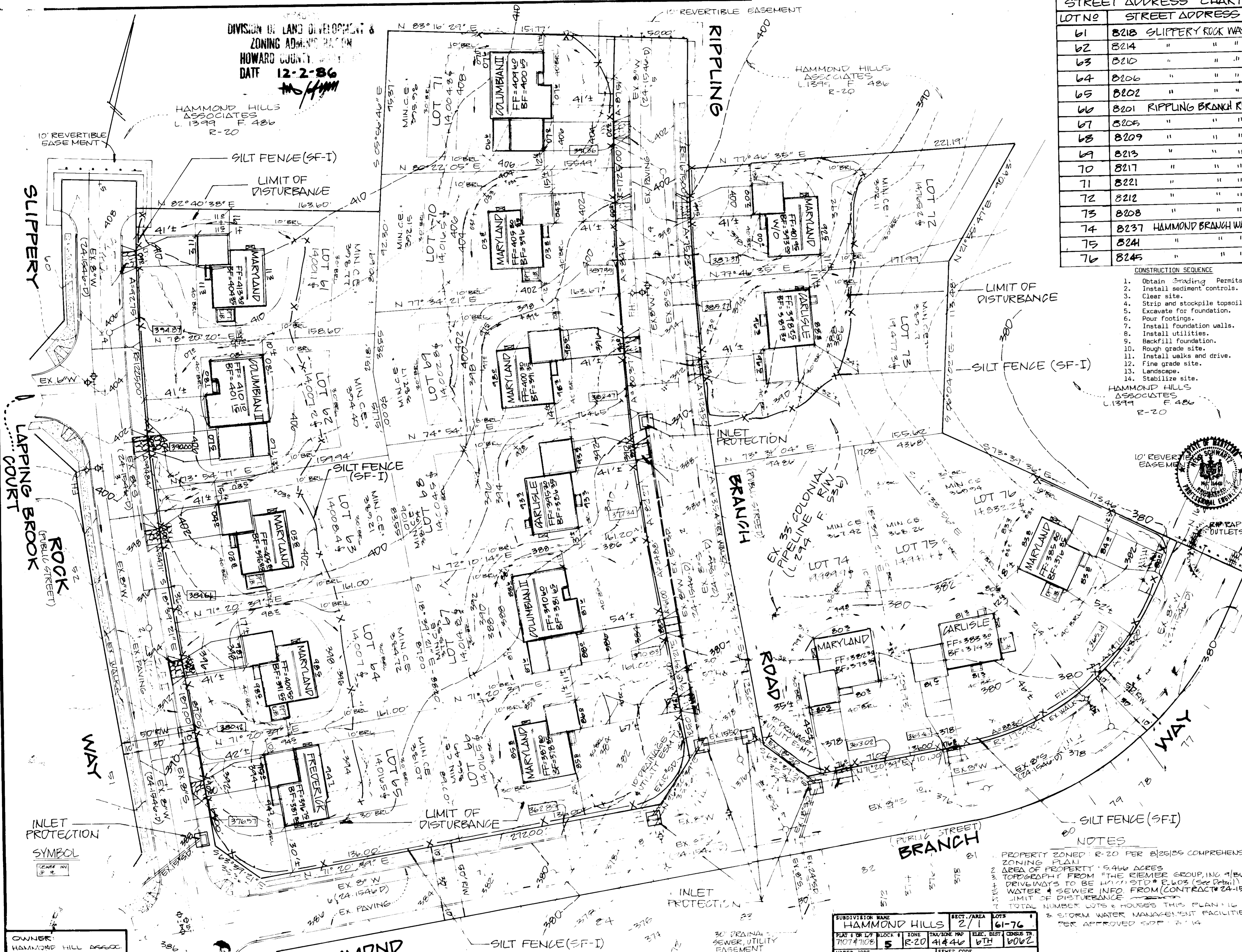
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

DATE 4-3-87

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 4-3-87

DATE 4-3-87



NOTES

PROPERTY ZONED R-20 PER 2/26/85 COMPREHENSIVE ZONING PLAN

AREA OF PROPERTY: 5.466 ACRES

TOPOGRAPHY FROM "THE RIEMER GROUP, INC 1/86"

DRIVEWAYS TO BE 14' WIDE STD # 6.6.03 (See Detail)

WATER & SEWER INFO FROM (CONTRACT # 24-1546)

LIMIT OF DISTURBANCE

TOTAL NUMBER LOTS & HOUSES THIS PLAN: 16

STORM WATER MANAGEMENT FACILITIES PER APPROVED SDP # 4-14

SUBDIVISION NAME	HAMMOND HILLS
PLAT # OR LOT #	71074708
ZONE	R-20
WATER CODE	E-18
SEWER CODE	1600000
SECT./AREA	2/1
LOTS	61-76
BLK. DIST.	6TH
CROSS ST.	8062

OWNER:
 HAMMOND HILL ASSOC
 9035 RED BRANCH ROAD
 COLUMBIA, MD 21045

CONTRACT OWNER:
 CONSOLIDATED HOME BUILDING
 GORMAN PLAZA BUILDING, SUITE 116
 8950 ROUTE 108
 COLUMBIA, MARYLAND 21045
 301-999-0095

NO.	REVISIONS	DATE



DEVELOPMENT CONSULTANTS GROUP, INC.
 17904 GEORGIA AVENUE # 102
 OLNEY, MARYLAND 20832
 301-924-4570

SITE DEVELOPMENT PLAN
 HAMMOND HILLS
 SECTION 2 AREA 1
 LOTS 61 THRU 76 - PARCEL 2 - ELECTION DISTRICT # 6
 HOWARD COUNTY, MARYLAND

SDP-87-82

DATE 10/19/86

DRAWN BY DAVE SCALY

SCALE 1/4" = 20'

Sheet 1 of 2

15-33

SDP-87-82

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING 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 FEET) 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 POUNDS 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 20 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 WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF ENHANCED 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING 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 25 BUSHEL PER ACRE OF ANNUAL RYE (3.25 TONS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 1 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 WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

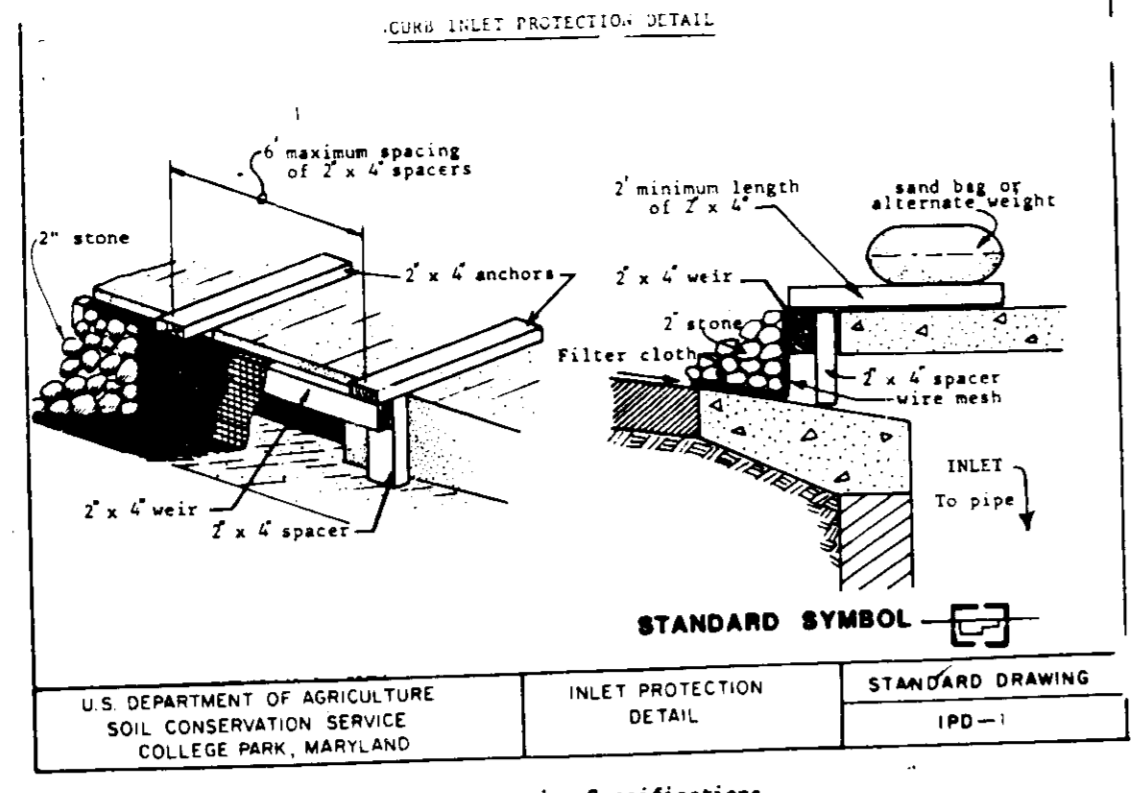
MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF ENHANCED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 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.

SEDIMENT CONTROL NOTES

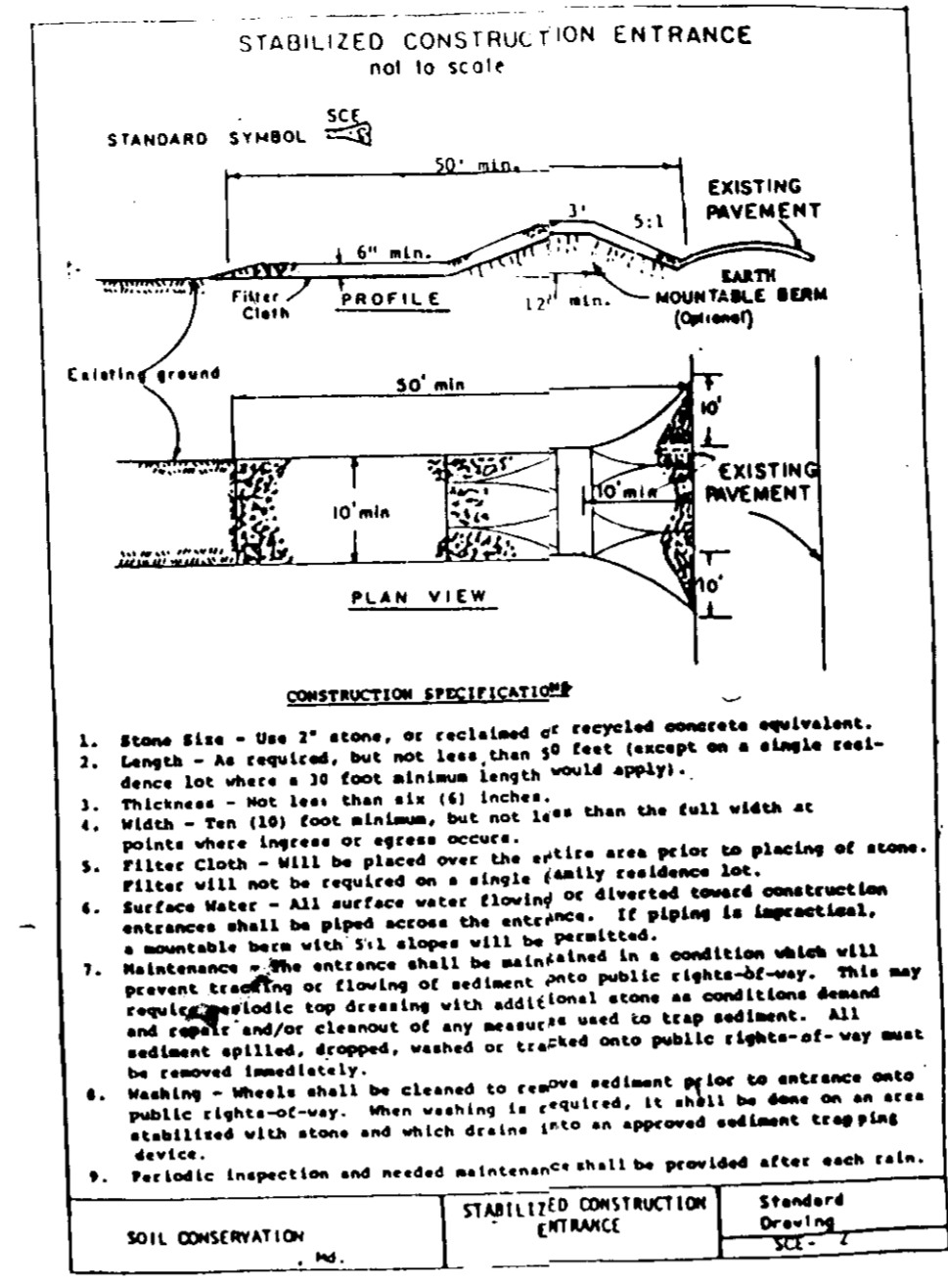
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 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 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. 54) and (Sec. 54), temporary seeding (Sec. 50) with mulch alone can only be done when recommended seeding rates 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	5.41 Acres
Area Disturbed	2.82 Acres
Area to be road or paved	1.00 Acres
Area to be vegetatively stabilized	1.82 Acres
Total Cut	8500 Cu. Yds.
Total Fill	3200 Cu. Yds.
Offsite waste/borrow area location	11
- 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 controls must be provided, if deemed necessary by the Howard County DPU 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.



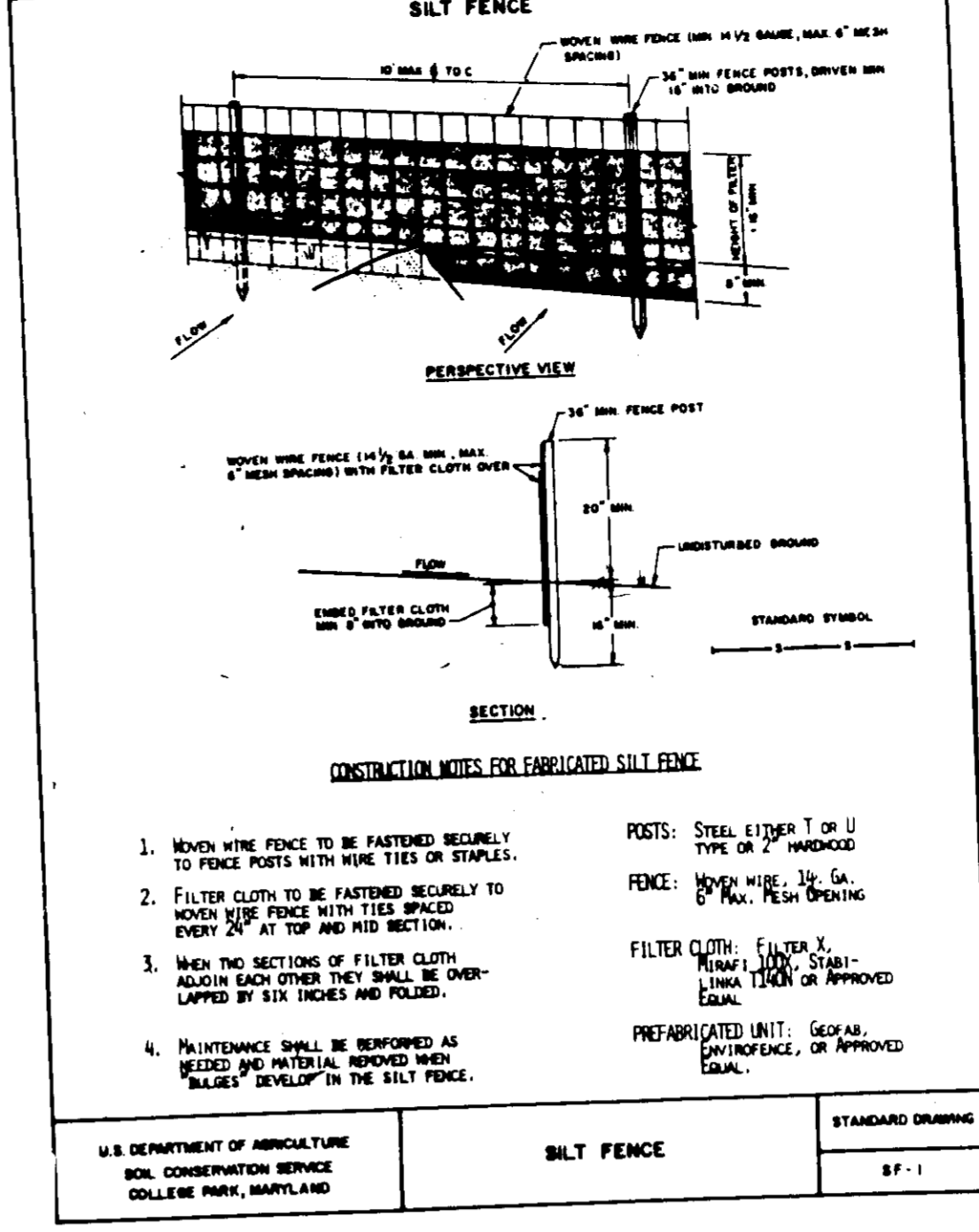
CONSTRUCTION SPECIFICATIONS

1. Materials
 - a. Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 - b. Wire mesh must be of sufficient strength to support filter fabric, and stones for curb inlets, with water fully impounded against it.
 - c. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, 80#, 40-85, to allow sufficient passage of water and removal of sediment.
 - d. Stone is to be 2" in size and clean, since fines would clog the cloth.
2. Curb Inlet Protection
 1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 4") as shown on the standard drawing.
 2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
 3. Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
 4. Place the assembly against the inlet throat and nail (minimum 2" length of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the location. Inlet top and be held in place by sandbags or alternate weight.
 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



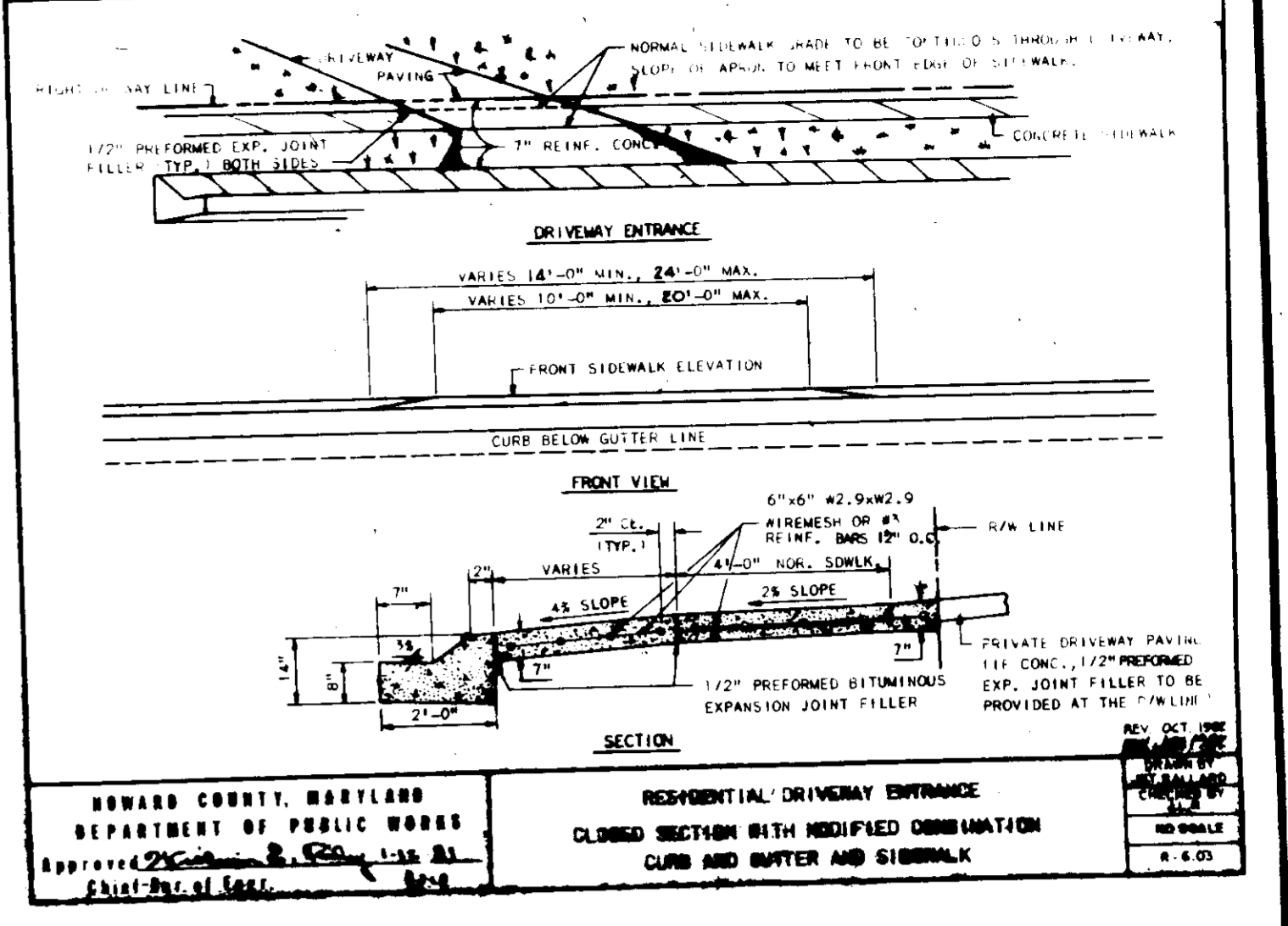
CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 9' feet (except on a single east fence lot where a 10' 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 of grass 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 directed toward construction entrance shall be piped across the entrance. If piping is impractical, a removable berm with 5:1 slope will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent trapping or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, stopped, washed or tracked onto public right-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public right-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.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

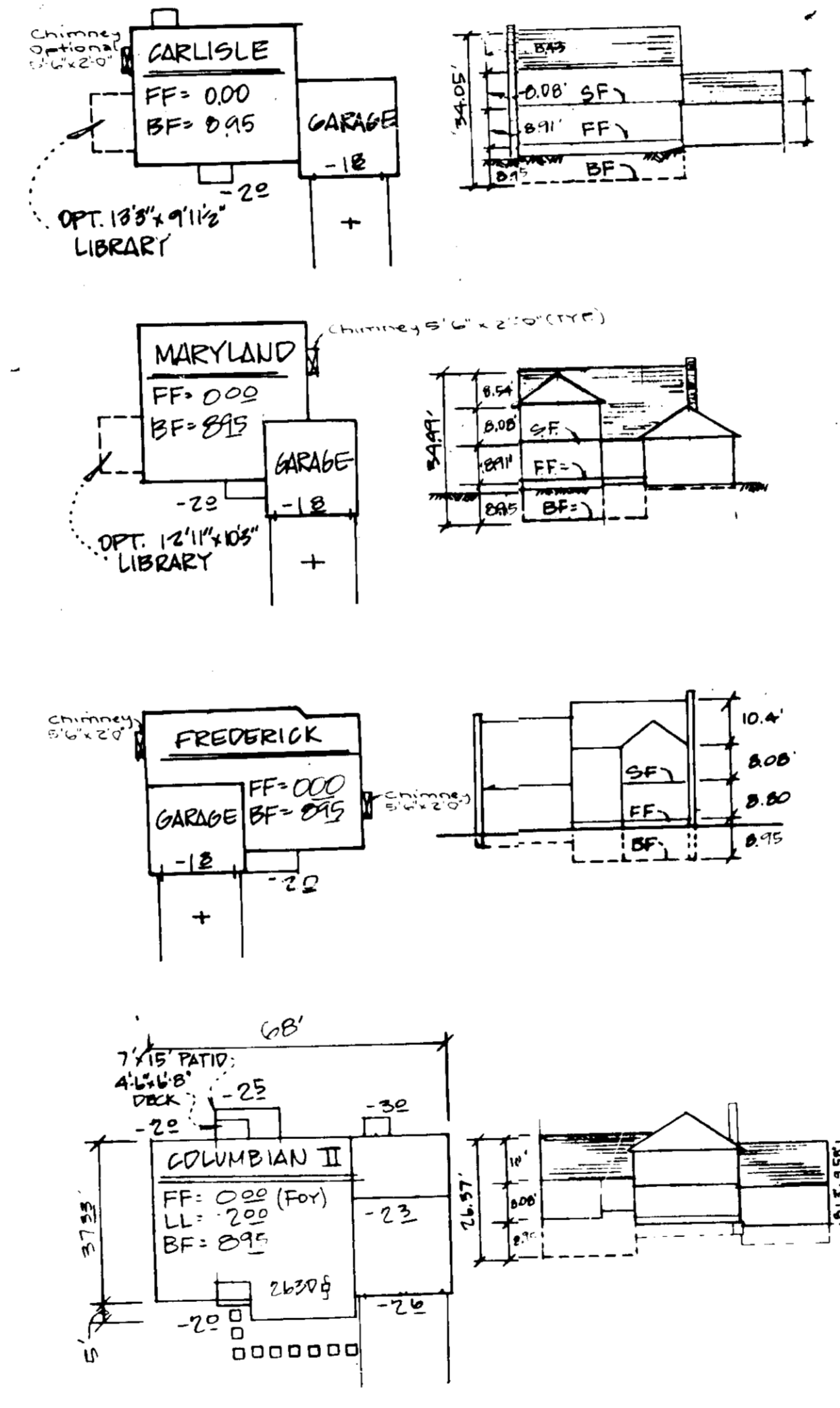
1. MONY WIRE FENCE TO BE FASTENED REGULARLY TO POLE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED REGULARLY TO MONY WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WED THE SECTIONS OF FILTER CLOTH ALONG EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND POLYED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REPOSED WHEN NEEDED DEVELOP IN THE SILT FENCE.



RESIDENTIAL DRIVEWAY ENTRANCE

CLOSED SECTION WITH MODIFIED ORNAMENT CURB AND GUTTER AND SIDEWALK

NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-7272.



SUBDIVISION NAME	HAMMOND HILLS
SECT./AREA	2/1 61-76
PLAT # OR L.P. BLOCK #	7107 #1108
ZONE	R-20
TAX/ZONE P.W.	41440
BLK. DIST.	6TH
OWNER'S TR.	8062
WATER CODE	E-18
SEWER CODE	7600000

APPROVED

DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION

HOWARD COUNTY, MARYLAND

DATE 12-2-86

Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:

- 1) Seven (7) calendar days for all perimeter sediment control structures, dikes, swales, ditches, perimeter slopes and all slopes greater than 3:1,
- 2) Fourteen (14) days as to all other disturbed or graded areas on the project site.

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DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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."

Howard Schwartz 3/27/87
DATE

ENGINEER 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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Nelu Schwartz 3/26/87
ENGINEER - NELU SCHWARTZ DATE

REVIEWED FOR HOWARD S.C.D.
NAME

AND MEETS TECHNICAL REQUIREMENTS

John N. Hill 4-1-87
U.S. SOIL CONSERVATION SERVICE DATE

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

Stephen R. Hader 4-10-87
HOWARD S.C.D. DATE

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

John P. Hill 4-8-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Thomas L. Hamill 4-9-87
DIRECTOR DATE

John M. Muschinski 4-9-87
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

George Neman 4-3-87
DIRECTOR DATE

William E. Remy 4-3-87
CHIEF BUREAU OF ENGINEERING DATE



NO.	REVISIONS	DATE

Owner/Developer: **CONSOLIDATED HOME BUILDING**

608MAN PLAZA BUILDING, SUITE 108
8950 ROUTE 108
COLUMBIA, MARYLAND 21045
301-415-0065



DEVELOPMENT CONSULTANTS GROUP, INC.

17904 GEORGIA AVENUE # 102
OLNEY, MARYLAND 20832
301-924-4570

SITE DETAILS AND NOTES

HAMMOND HILLS

SECTION 2 AREA 1
LOTS 61 THRU 76 - PARCEL 2 - ELECTION DISTRICT #6
HOWARD COUNTY, MARYLAND

DATE 10/14/86
DRAWN BILL
CHECKED PAVE
SCALE AS SHOWN
Sheet 2 of 2
15-33
SDP-87-82