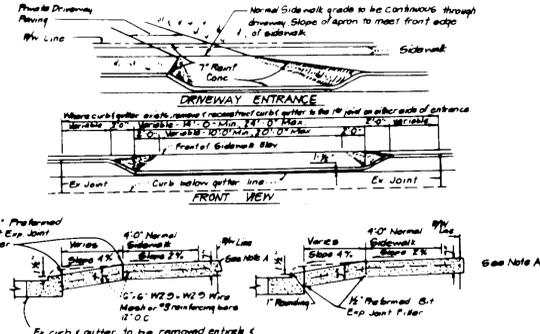
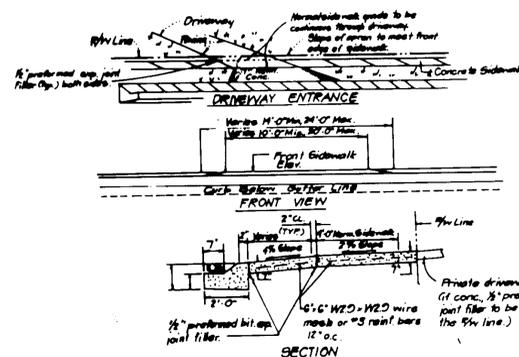


DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK



DRIVEWAY ABUTTING CLOSED SECTION WITH STR 7" COMB CURB & GUTTER (SIDEWALK SET BACK FROM CURB)

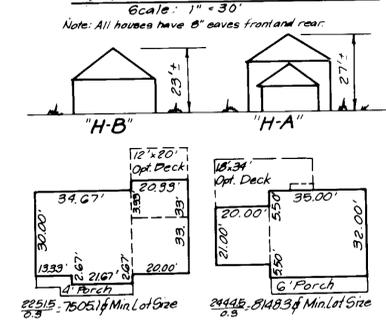


DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK

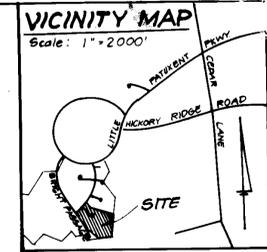
SPECIAL NOTES

Approved Road Construction Plans shall be used for all Public Utilities. Public Water & Sewer shown for reference only. For more detailed information see water and sewer plans Contract N° 34-1492-D. The water & sewer house connections not included in a "Developer's Agreement" shall conform to Howard Co. Plumbing Code. The on-site W.H.C. shall be 1" copper and the S.H.C. shall be 4" iron. Stormwater Management provided for in The Village of Hickory Ridge, Section 3, Area 1, F-83-120.

TYPICAL HOUSES



VILLAGE OF HICKORY RIDGE SECTION 3 AREA 13 PLAT 7051 ZONED NEW TOWN SFMD



GENERAL NOTES:

- The land included is zoned: New Town SFMD.
- Coordinates established by Maps, Inc. in 1965 and Fardum and Jeschke in 1968, which controls were tied to the MD Bureau of Control/Surveys monuments and to US 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: 3.166 Acres.
- Total Number of Lots: 10.
- Maximum Building Coverage is: 30% per lot.
- Reference Final Development Plan: Phase 1B Part I.
- The contractor or developer shall contact the construction inspection/survey Division, 24 hours in advance of commencement of work at 502-2417 or 502-2418.

LEGEND:

- Contour Interval: 2 ft
- Existing Contour: 410
- Proposed Contour: 410
- Spot Elevation: +10 5/8
- Direction of Drainage
- Existing Trees to be Saved
- Walk Out Basement
- Existing Spot Elevation: 385.6

BUILDING RESTRICTION LINES
 Front: 20' Min - 50' R/W
 30' Min - 60' R/W
 Rear: 7 1/2' Min
 Side: 7 1/2' Min

VILLAGE OF HICKORY RIDGE SECTION 3 AREA 13 OPEN SPACE LOT 148 PLAT 7051

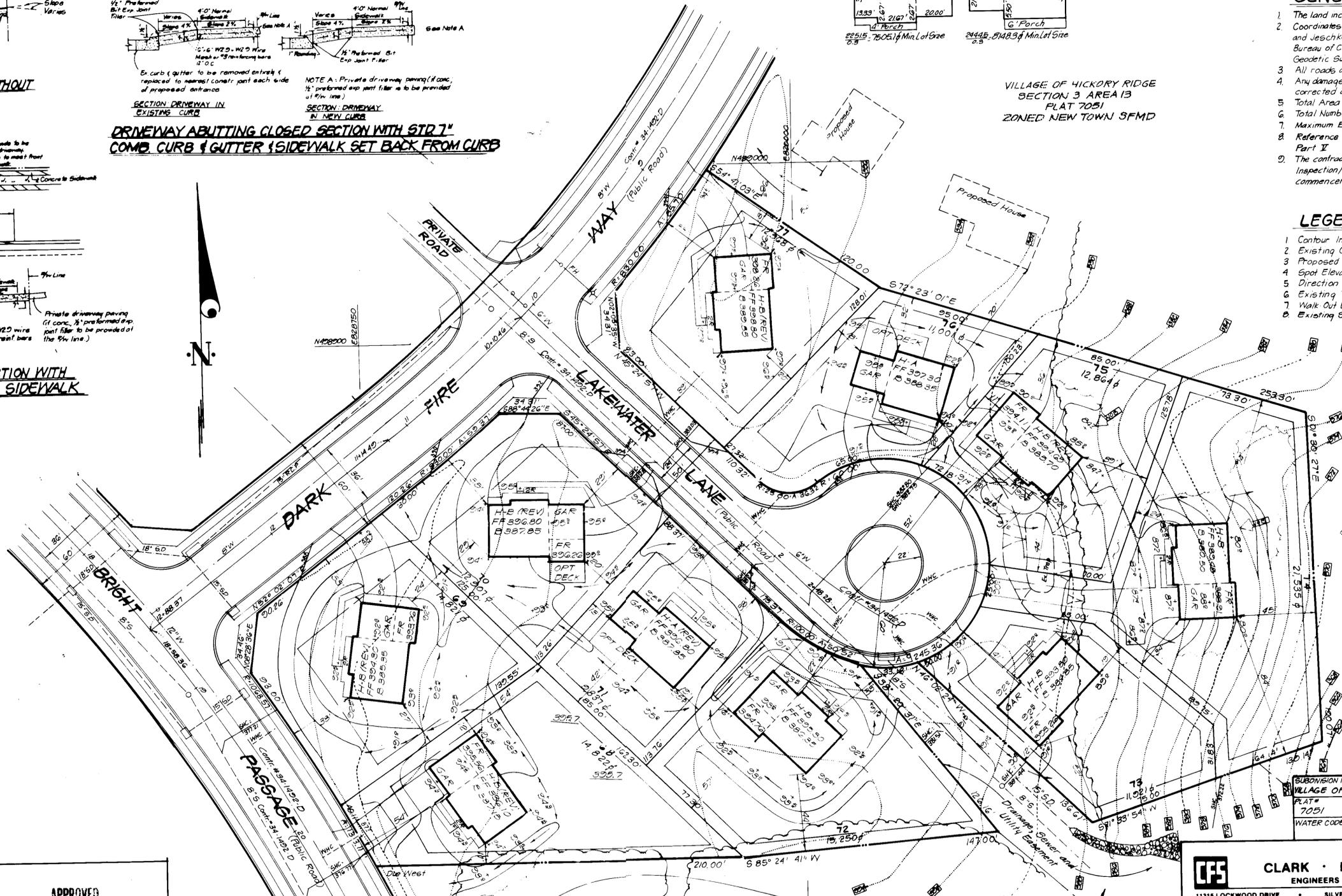
Note: Construction on Lots 73 and 74 may not begin until drainage area to Existing Trap is stabilized, road is paved, and trap removed.

LOT	STREET ADDRESS
68	11809 BRIGHT PASSAGE
69	11663 DARK FIRE WAY
70	11600 LAKEWATER LANE
71	11604 "
72	11608 "
73	11619 "
74	11615 "
75	11611 "
76	11607 "
77	11603 DARK FIRE WAY

SUBDIVISION NAME	COLUMBIA	SECT. AREA/LOTS	3/13	68-77
PLAT #	7051	BLOCK #	10	5 F.M.D.
WATER CODE	E 27	SEWER CODE	6591000	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 6-17-87
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] DATE: 6-19-87
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [Signature] DATE: 6-7-87
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 6-12-87
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 6-12-87

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE: 5-26-87



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

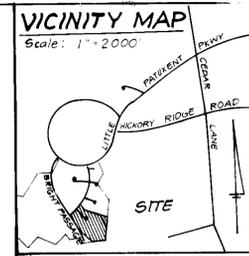
DESIGNED: CMS
 DRAWN: VHL
 CHECKED: RJD
 DATE: April, 1987

SITE DEVELOPMENT PLAN
 LOTS 68 THRU 77
COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 13
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: HALLMARK BUILDERS, INC.
 PO Box 1018
 Columbia, MD 21044

SCALE: 1"=30'
 DRAWING: 1 of 3
 JOB NO.: BG-130
 FILE NO.: BG-130 X

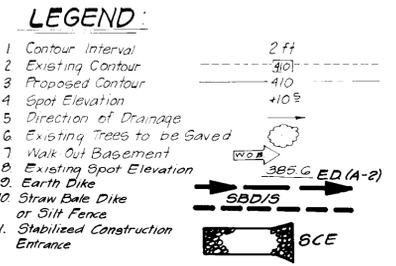
SDP-87-215.



TRAP #1 S.O.S.T. ST Y *
 D.A. = 1.0 Ac.
 Storage Req'd. = 1.0 x 1800 = 1800 cf
 Storage Provided = 1800 cf
 Depth = 4'
 Top of Stone Crest = 388.0
 Bottom Elev. = 383.0
 Cleanout Elev. = 383.0
 Bottom Dimensions = 26' x 11'
 *1:1 Side Slopes in cut

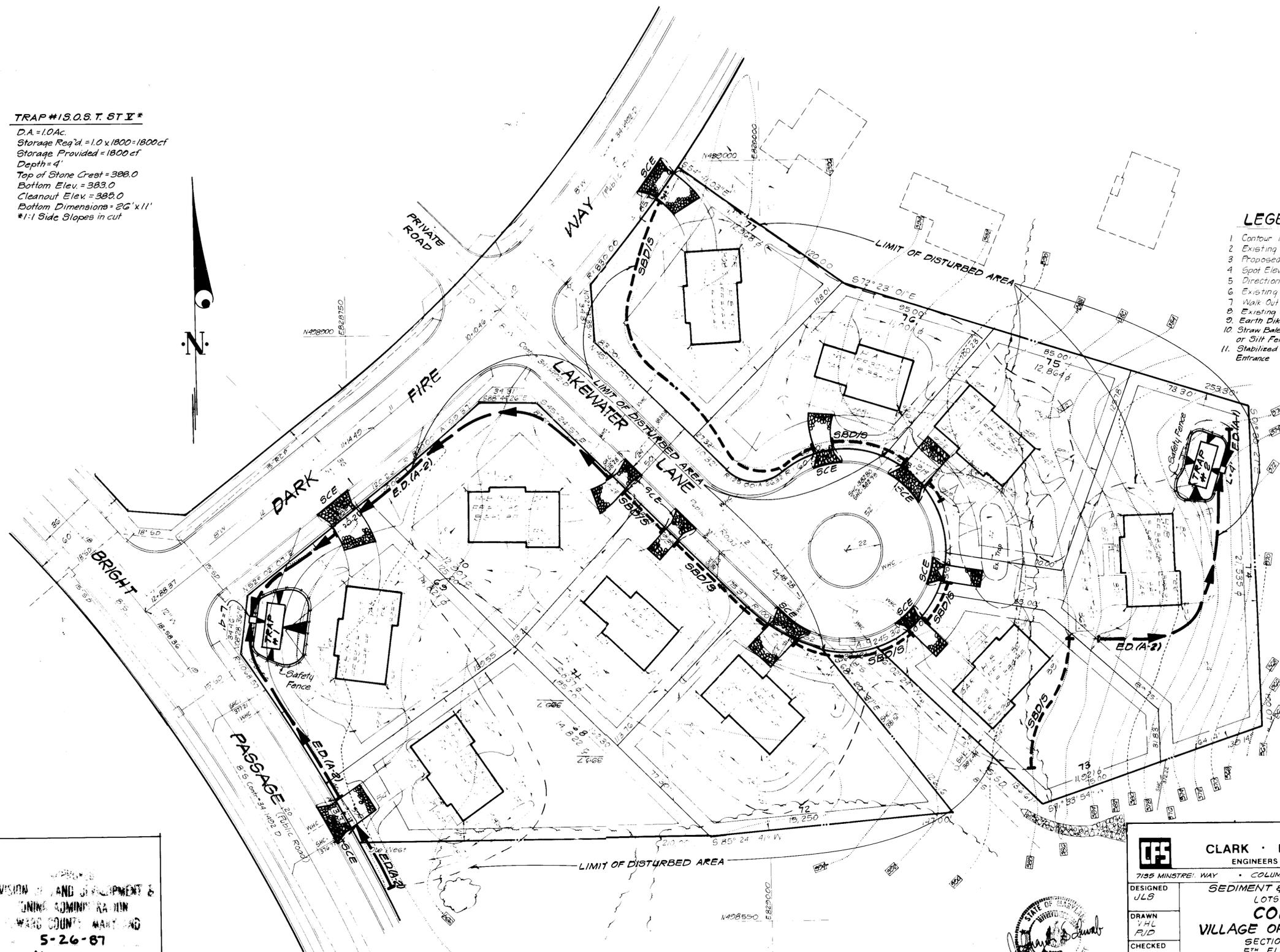
Reviewed for Howard S.C.D.
 and meets Technical Requirements
 Signature: _____ Date: _____
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved: _____ Date: 4/14/87



TRAP #2 S.O.S.T. ST Y *
 D.A. = 1.0 Ac.
 Storage Req'd. = 1.0 x 1800 = 1800 cf
 Storage Provided = 1800 cf
 Depth = 4'
 Top of Stone Crest = 375.0
 Bottom Elev. = 370.0
 Cleanout Elev. = 372.0
 Bottom Dimensions = 26' x 11'
 *1:1 Side Slopes in cut

Note: Construction on Lots 73 and 74 may not begin until drainage area to Existing Trap is stabilized, road is paved, and trap removed.



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: Jeffrey L. Schaub Date: 4/24/87

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: _____ Date: 4/23/87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 Signature: _____ Date: 6-17-87
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Signature: _____ Date: 6-19-87
 PLANNING DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: _____ Date: 6-12-87
 CHIEF BUREAU OF ENGINEERING

DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 5-26-87



CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 7135 MINISTRE WAY · COLUMBIA, MARYLAND 21046 · (301) 381-7500

DESIGNED: JLS SCALE: 1"=30'
 DRAWN: VHL RJD DRAWING: 2 OF 3
 CHECKED: JME JOB NO: 86-138
 DATE: 4-22-87 FILE NO: 86-138SE

FOR: HALLMARK BUILDERS, INC.
 P.O. Box 1018
 Columbia, MD 21044

SDP-87-215

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. (892-2437)
- 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	3,166 Acres
Area Disturbed	2,400 Acres
Area to be roofed or paved	2,690 Acres
Area to be vegetatively stabilized	1,750 Acres
Total Cut	4,120 Cu. yds
Total Fill	1,770 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 DEW 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). N/A
- 13) The total amount of straw bale dikes/silt fence equals L.F.

CONSTRUCTION SEQUENCE:

- Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.
- Excavate for Foundations and Rough Grade & Temporarily Stabilize.
- Construct Structures, Sidewalks and Driveways.
- Final Grade and stabilize in accordance with Stds. & Specs.
- Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.

APPROVED:
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 5-26-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER 6-17-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR 6-19-87
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 6-28-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR 6-12-87
 CHIEF BUREAU OF ENGINEERING

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. 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).
- 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 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 of 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 reseedings.

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.

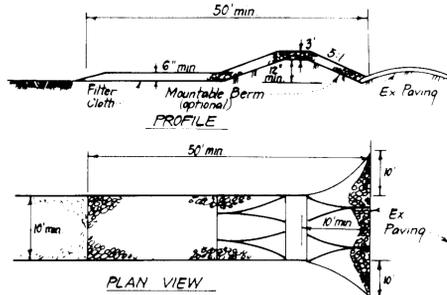
Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 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 unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool of 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.

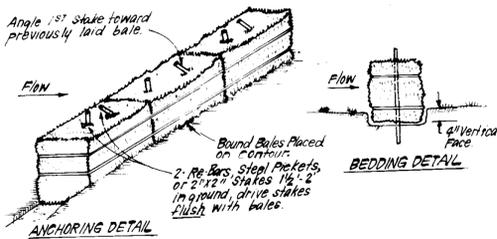
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

H DAYS	7	30	180	30	14
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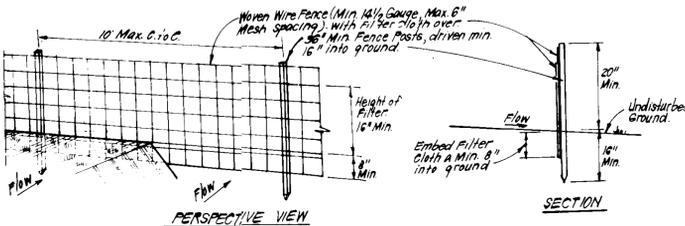
- CONSTRUCTION SPECIFICATIONS:**
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (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 5:1 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 as conditions demand and repair and/or clearing of any measures used to trap sediment. All sediment spilled, 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



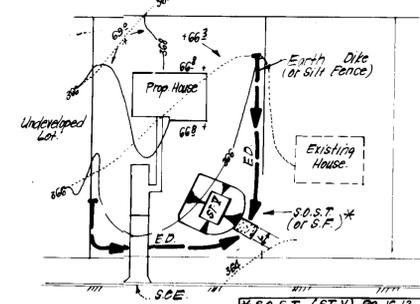
- CONSTRUCTION SPECIFICATIONS:**
1. Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 2. Each bale shall be embedded in the soil a min of 4" and placed so the bindings are horizontal.
 3. Bales shall be securely anchored in place by either 2 stakes or re bars driven thru the bale. 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 bale.
 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 (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 36" at top and mid section.
 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, 1/4" Gauge, 6" Max. Mesh Opening
 FILTER CLOTH: Filter, Miraflex 100X, Stabilink, T140N or Approx. eq.
 PREFABRICATED UNIT: Geotabs, Envirofence or Approx. 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 to any lots showing a sediment trap

NO.	AREA (SQ. FT.)	PERCENTAGE	TOTAL
1	1210	18.6%	6768
2	1210	18.6%	6768
3	1210	18.6%	6768
4	1210	18.6%	6768

* can be adjusted in field, but bottom area must be as given or greater

SINGLE LOT SEDIMENT CONTROL PLAN
 NO SCALE

Reviewed for Howard County S.C.D. Name and meets Technical Requirements Signature Date U.S. Soil Conservation Service

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

DEVELOPER'S/BUILDERS CERTIFICATE

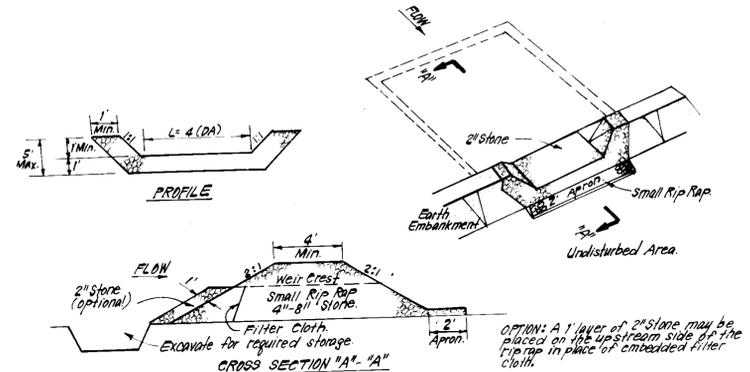
"We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard County Conservation District or their authorized agents, as are deemed necessary."

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.

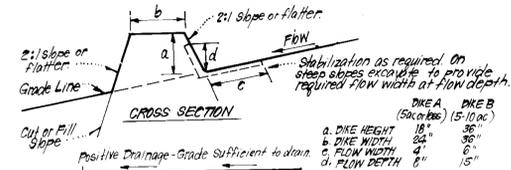
Signature: [Signature] Date: 4/23/87

Signature: [Signature] Date: 4/24/87



- CONSTRUCTION SPECIFICATIONS:**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 3. All cut and fill slopes shall be 2:1 or flatter.
 4. The stone used in the outlet shall be small rip rap 4" - 8" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.
 5. Sediment shall be removed and traps restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
 6. The structure shall be inspected after each rain and repairs made as needed.
 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST.V.
 NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. All dikes shall be compacted by earth-moving equipment.
 2. All dikes shall have positive drainage to an outlet.
 3. Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
 4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
 5. Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
 6. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 5.0%	Seed & Straw Mulch	Seed with LIME or EXCELGARD, 2" Stone
3	5.1 - 8.0%	Seed with LIME or SO2, 2" Stone, Lined Rip Rap 4" - 8" Stone	Engineering Design
4	8.1 - 20.0%	Lined Rip Rap 4" - 8" Stone	Engineering Design

A Stone to be 2" Stone, or recycled concrete equivalent, in a layer of at least 3" thick and be pressed into soil with construction equipment.
 B Rip Rap to be 4" - 8" in a layer of at least 8" thick, pressed into soil.
 C Approved equivalents can be substituted for any of the above materials.

7. Periodic inspection and Required Maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.)
 NO SCALE

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 - BALTO • (301) 621-8000 - WASH.

SEDIMENT & EROSION CONTROL PLAN
 LOTS 68 THRU 77
COLUMBIA
VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 13
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: HALLMARK BUILDERS, INC.
 P.O. BOX 1018
 COLUMBIA, MARYLAND 21044
SDP-87-215

DESIGNED JLS	SCALE As Shown
DRAWN PUD	DRAWING 3 of 3
CHECKED JLS	JOB NO. BG-138
DATE 4-22-87	FILE NO. BG-138SE