

**GENERAL NOTES:**

1. The land included is zoned: New Town S.F.L.D.
2. Coordinates shown hereon are based upon the MD State Plane Coordinate System, Reference Howard County Control Points 2630002 & 2630003.
3. All roads are public and existing.
4. Any damage to county owned right-of-ways to be corrected at the Developer's expense.
5. Total Area included: 15.70 Ac.
6. Total Number of Lots: 46
7. Reference Final Development Plan Plat # 3054A-5G1.
8. Maximum Lot Coverage: 30%
9. The Contractor/Developer shall contact the Construction Inspection/Survey Division, 24hrs. prior to commencement of work at 706-2630.

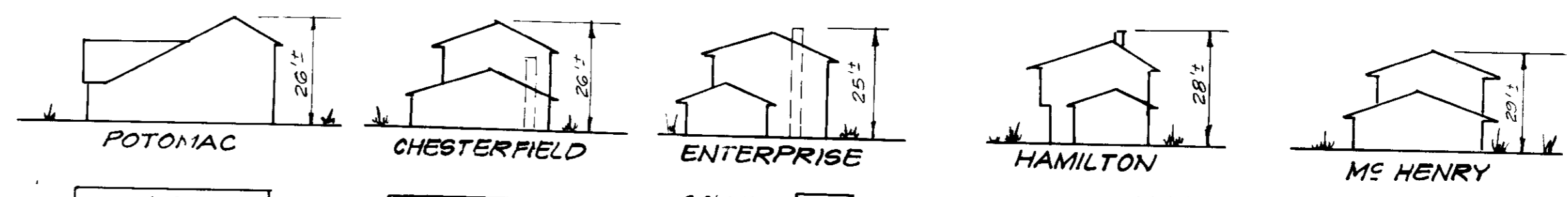
**LEGEND:**

- Contour Interval: 2 Ft.
- Existing Contour: (solid line)
- Proposed Contour: (dashed line)
- Spot Elevation: +105
- Direction of Drainage: (arrow)
- Walk-Out Basement: (W.O.B.)
- Trees to be Saved: (circle with 'X')

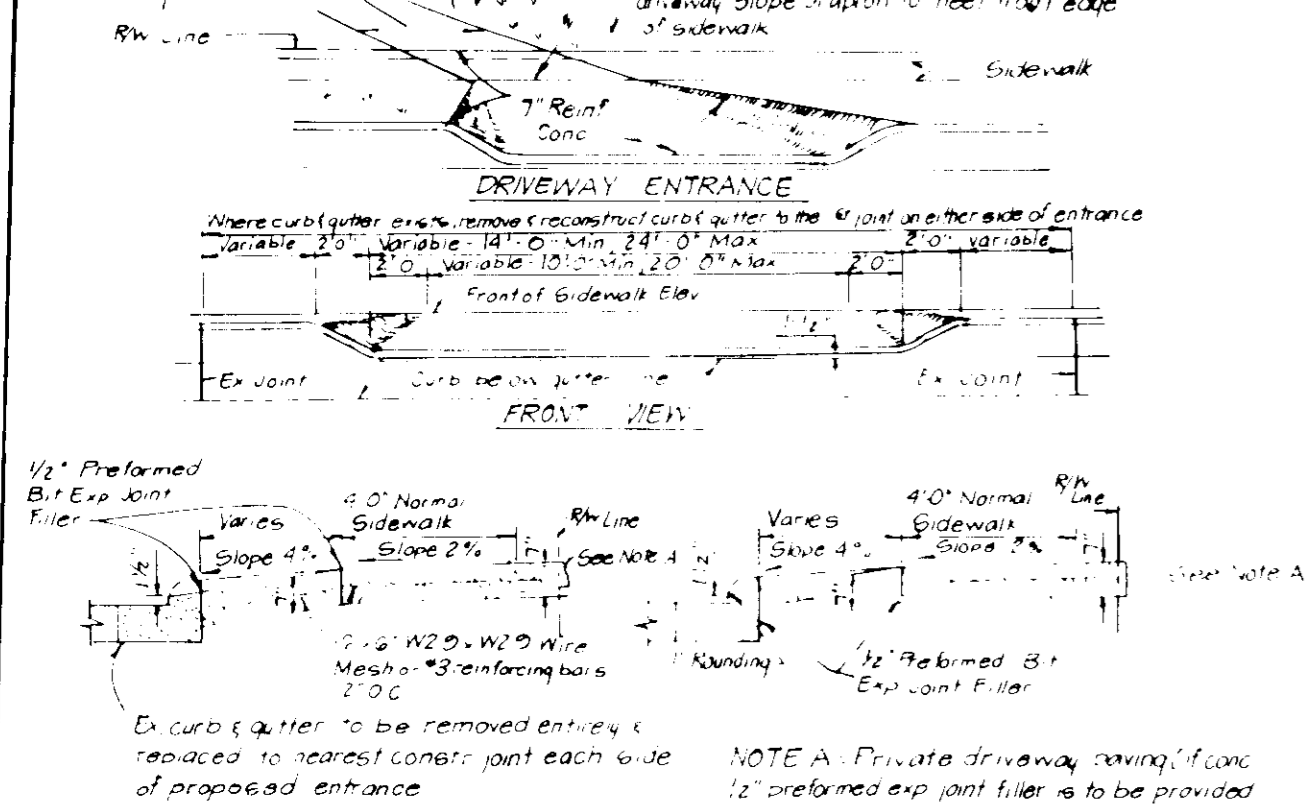
ADDRESS CHART		
Lot No	STREET	ADDRESS
1	10200	Harmel Drive
2	10201	"
3	10202	"
4	10203	"
5	10204	"
6	10205	"
7	10206	"
8	10207	"
9	10208	"
10	10209	"
11	10210	"
12	10211	"
13	10212	"
14	10213	"
15	10214	"
16	10215	"
17	10216	"
18	10217	"
19	10218	"
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27	10226	"
28	10227	"
29	10228	"
30	10229	"
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32	10231	"
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34	10233	"
35	10234	"
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37	10236	"
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40	10239	"
41	10240	"
42	10241	"
43	10242	"
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61	10260	"
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63	10262	"
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423	10622	



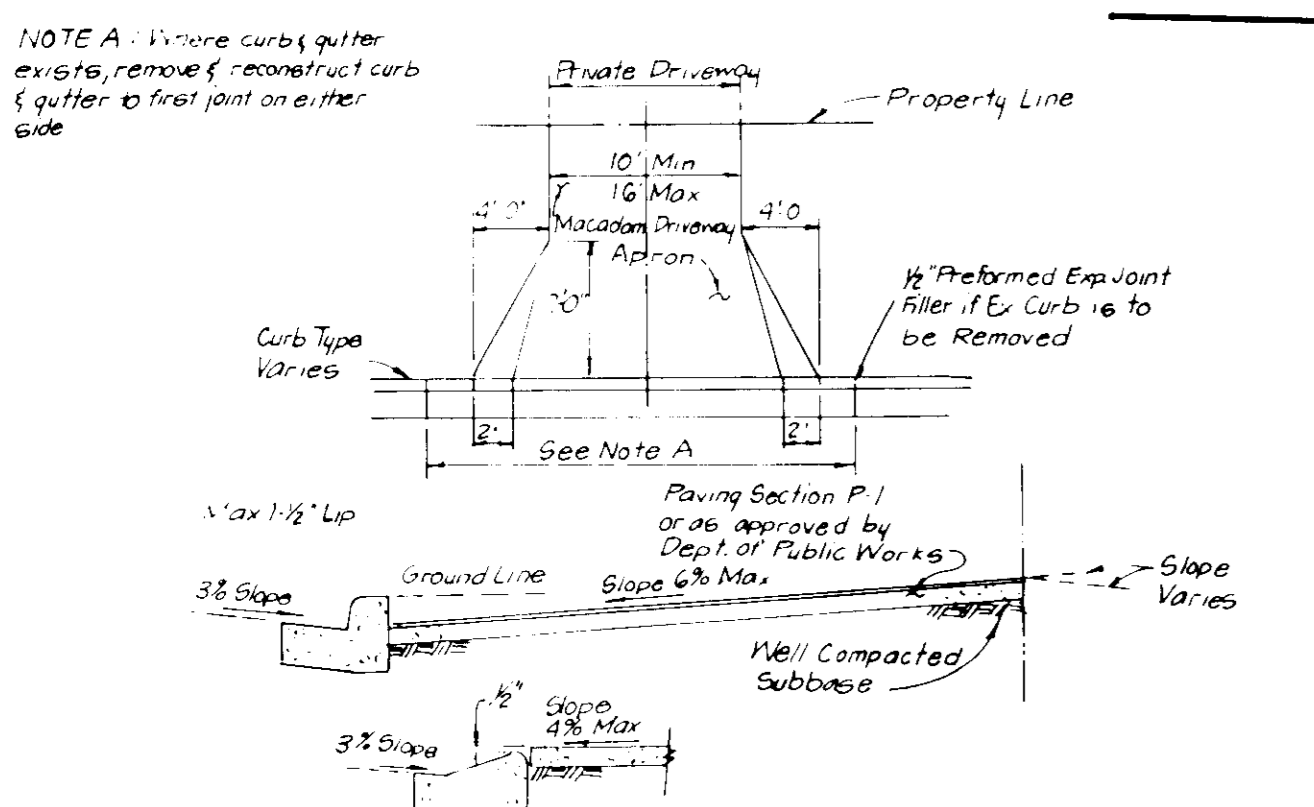
**TYPICAL HOUSES**  
Scale: 1"=30'



ADDRESS CHART	
LOT NO.	STREET ADDRESS
12	6104 DRY LEAF PATH
13	6106 " " " "
14	6112 " " " "
15	6116 " " " "
16	6120 " " " "
17	6124 " " " "
18	6128 " " " "
19	6132 " " " "
20	6136 " " " "
21	6140 " " " "
22	6144 " " " "
23	6148 DRY LEAF PATH
	WATCH CHAIN WAY



**DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK**  
**DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK**



**DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK**



APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 10-6-87  
MO

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER: [Signature] DATE: 11-13-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
PLANNING DIRECTOR: [Signature] DATE: 11-30-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR: [Signature] DATE: 11/6/87

CHIEF BUREAU OF ENGINEERING  
[Signature] DATE: 11/10/87

**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

DESIGNED: VHL  
DRAWN: VHL  
CHECKED: J.M.E.  
DATE: 9-2-87

**SITE DEVELOPMENT PLAN**  
LOTS 1 THRU 8 & 12 THRU 49  
**COLUMBIA VILLAGE OF HICKORY RIDGE**  
SECTION 4 AREA 1  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR: THE RYLAND GROUP, INC.  
7130 Mistral Way - Suite 215  
Columbia, MD 21045

SCALE: 1"=30'  
DRAWING: 2 of 7  
JOB NO: 87-000  
FILE NO: 87-009-X





STREET	ADDRESS
21	10936 HARMEL DRIVE
25	10940 " " "
22	10944 " " "
27	10948 " " "
28	10951 " " "
30	10955 " " "
30	10960 " " "
31	10964 " " "
32	10968 " " "
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38	10985 " " "
39	10985 " " "
40	10987 " " "
41	10987 " " "
42	10987 " " "
43	10989 " " "
44	10995 HARMEL DRIVE



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

*[Signature]* 11-13-87  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*[Signature]* 11-30-87  
PLANNING DIRECTOR DATE

*[Signature]* 18 Nov 1987  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

*[Signature]* 11-13-87  
DIRECTOR DATE

*[Signature]* 11-13-87  
CHIEF BUREAU OF ENGINEERING DATE

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-6-87

V.O.H.R.  
SECTION 4 AREA 1  
ZONED NT SFLD  
PLAT 7068

**CF** CLARK • FINEFROCK & SACKETT, INC.  
ENGINEERS • PLANNERS • SURVEYORS

7135 MINNISTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7200 - BALTO. • (301) 621-8100 - WASH.

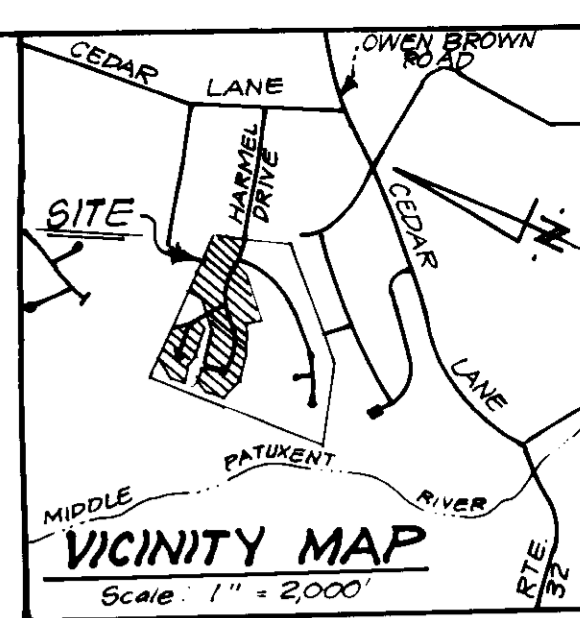
DESIGNED E.T.	<b>SITE DEVELOPMENT PLAN</b> LOTS 1 THRU 8 & 12 THRU 40 <b>COLUMBIA</b> <b>VILLAGE OF HICKORY RIDGE</b> SECTION 4 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP, INC. 7130 Minnistel Way - Suite #215 Columbia, MD. 21045	SCALE 1" = 30'
DRAWN V.H.L.		DRAWING 3 of 7
CHECKED J.M.E. V.H.L.		JOB NO. 87-009
DATE 9-2-87		FILE NO. 87-009-X





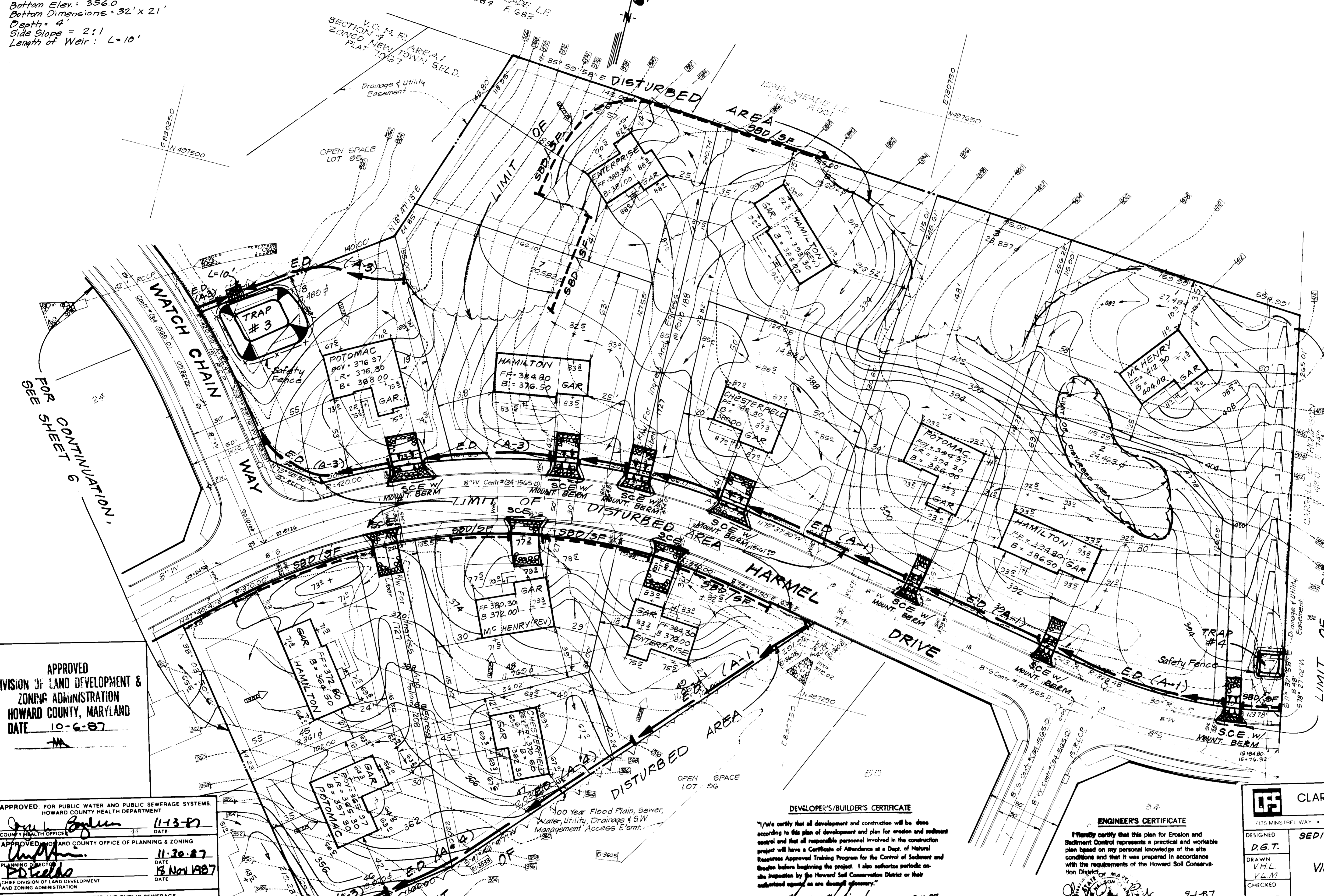
**TRAP # 3 S.O.S.T. (ST-V)**

Drainage Area = 2.5 Acres  
 Required Storage = 4500 cf  
 Provided Storage = 4640 cf  
 Weir Crest Elev. = 361.0  
 Cleanout Elev. = 358.0  
 Bottom Elev. = 356.0  
 Bottom Dimensions = 32' x 21'  
 Depth = 4'  
 Side Slope = 2:1  
 Length of Weir = L=10'



**LEGEND:**

- Contour Interval 2 Ft
- Existing Contour ---
- Proposed Contour - - - -
- Spot Elevation +10.5
- Direction of Drainage →
- Walk-Out Basement [Symbol]
- Trees to be Saved [Symbol]



**TRAP # 4 S.O.S.T. (ST-III)**

Drainage Area = 0.25 Ac.  
 Required Storage = 450 cf  
 Provided Storage = 450 cf  
 Slot Elev. = 388.7  
 Cleanout Elev. = 387.7  
 Bottom Elev. = 386.7  
 Bottom Dimensions = 13' x 13'  
 Depth = 2'  
 Side Slopes = 1:1

Reviewed for... **HOWARD**... S.C.D.  
 Name  
 and meets Technical Requirements  
 Signature Date 11-2-87  
 U.S. Soil Conservation Service

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

*Stephen L. Clark* 11/2/87  
 Approved Date

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-6-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER [Signature] DATE 11-13-87

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR [Signature] DATE 11-30-87  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE 15 Nov 1987

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR [Signature] DATE 11-9-87  
 CHIEF BUREAU FOR ENGINEERING DATE 11-9-87

**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."

*Manuel N. Dominguez* 9-4-87  
 Signature of Developer/Builder Date

**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."

*G. Nelson Clark* 9-1-87  
 Date

SUBDIVISION NAME	COLUMBIA	SECT./AREA	LOTS 1-8 & 12-49
PLAT #	7067	ZONE	111
TAX MAP	5.P.L.D.	ELEC. DIST.	5 TH
WATER CODE	E27	SEWER CODE	650000 & 6501000

**CLARK • FINEPROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINISTREL WAY • COLUMBIA, MD 21045 • (301) 720-7200 • (301) 720-1100 • WASH.

DESIGNED D.G.T.  
 DRAWN V.H.L.  
 CHECKED V.L.M.  
 DATE 9-1-87

**SEDIMENT & EROSION CONTROL PLAN**  
 LOTS 1 THRU 8 & 12 THRU 49  
**COLUMBIA**  
 VILLAGE OF HICKORY RIDGE  
 SECTION 4 AREA 1  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: THE RYLAND GROUP INC.  
 7130 Ministrel Way - Suite #215  
 Columbia, MD 21045

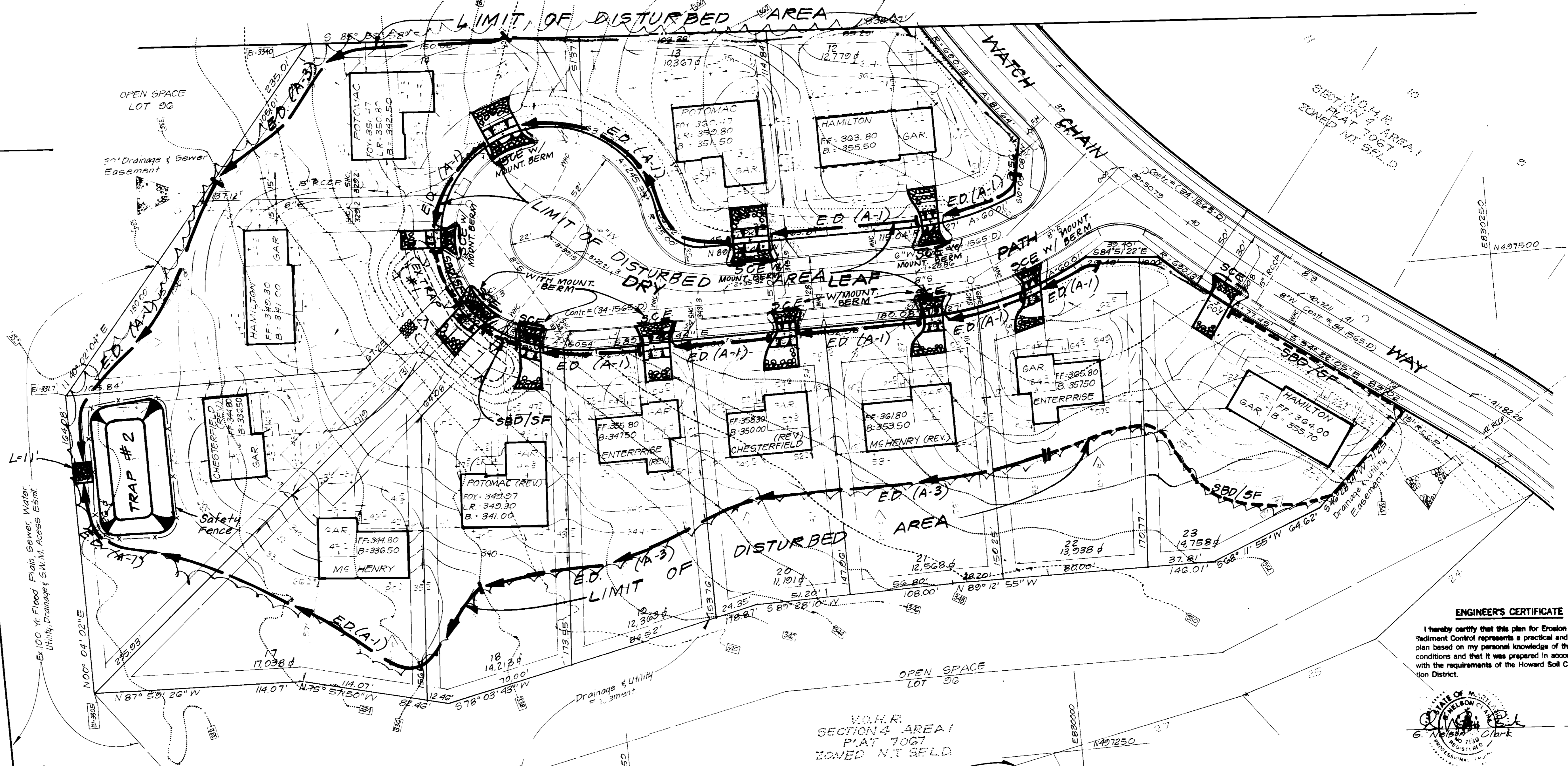
SCALE 1" = 30'  
 DRAWING 4 of 7  
 JOB NO. 87-003  
 FILE NO. 87-003SE

SDP-88-43.



KING'S MEADE LTD.  
P.T.N.H.F.  
L. 1907 R 975

**TRAP #2 S.O.S.T. (ST-V)**  
 Drainage Area = 2.6 Acres  
 Required Storage = 4680 c.f.  
 Provided Storage = 4840 c.f.  
 Weir Crest Elev. = 332.5  
 Cleanout Elev. = 329.5  
 Bottom Elev. = 327.5  
 Bottom Dimensions = 55'x22'  
 Depth = 4'  
 Side Slope = 2:1  
 Length of Weir = L=11'



**APPROVED**  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 10-6-87

**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.

CLARK  
 G. Nelson Clark  
 9-1-87 Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 11-13-87  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR: *[Signature]* DATE: 11-30-87  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 DATE: 18 Nov 1987  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* DATE: 11/6/87  
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 11/7/87

Reviewed for: HOWARD S.C.D.  
 Name  
 and meets Technical Requirements  
 Signature: *[Signature]* Date: 11-2-87  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved: *[Signature]* Date: 11/2/87

**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: *[Signature]* Date: 9-4-87

<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7130 MINSOTRA WAY • COLUMBIA, MARYLAND 21045		
DESIGNED	D.G.T.	SCALE 1" = 30'
DRAWN	VHL	DRAWING 5 of 7
CHECKED	VLM	JOB NO 87-009
D.G.T.		FILE NO 87-0095E
DATE	9-1-87	

FOR CONTINUATION SEE SHEET 6

SDP-88-43c



**TRAP #1 S.O.S.T. (ST-V)**

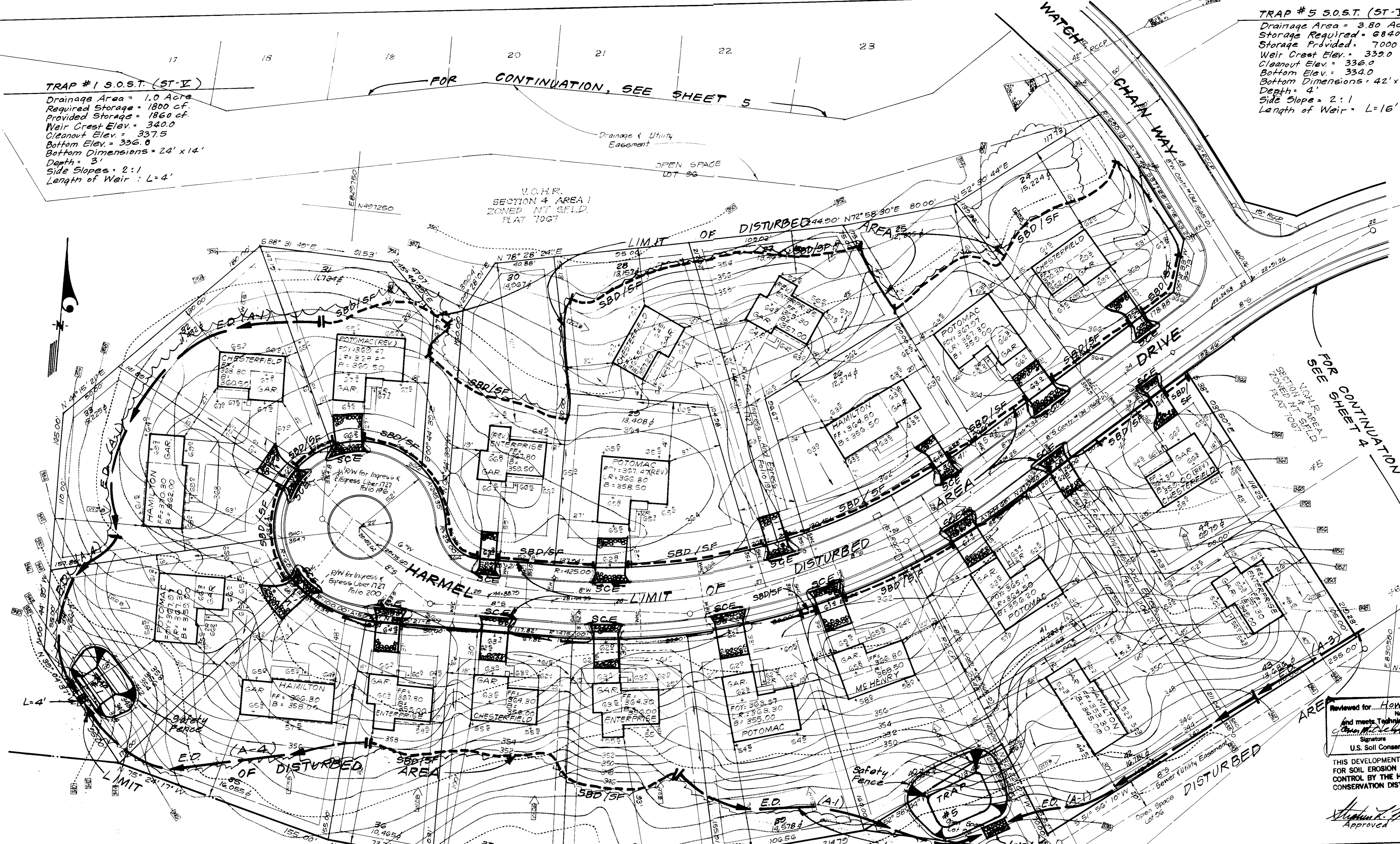
Drainage Area = 1.0 Acre  
 Required Storage = 1800 cf.  
 Provided Storage = 1860 cf.  
 Weir Crest Elev. = 340.0  
 Cleanout Elev. = 337.5  
 Bottom Elev. = 336.0  
 Bottom Dimensions = 24' x 14'  
 Depth = 3'  
 Side Slopes = 2:1  
 Length of Weir = L=4'

**TRAP #5 S.O.S.T. (ST-V)**

Drainage Area = 3.80 Ac.  
 Storage Required = 6840 cf.  
 Storage Provided = 7000 cf.  
 Weir Crest Elev. = 339.0  
 Cleanout Elev. = 336.0  
 Bottom Elev. = 334.0  
 Bottom Dimensions = 42' x 27'  
 Depth = 4'  
 Side Slopes = 2:1  
 Length of Weir = L=16'

FOR CONTINUATION, SEE SHEET 5

FOR CONTINUATION, SEE SHEET 4



V.O.H.R. SECTION 4 AREA I ZONED NT SFLD. PLAT 1097

V.O.H.R. SECTION 4 AREA I ZONED NT SFLD. PLAT 1098

Reviewed for HOWARD S.C.D. and meets Technical Requirements  
 Signature: [Signature]  
 Date: 11-2-87  
 U.S. Soil Conservation Service

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

Approved: [Signature] 11/2/87  
 Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 [Signature] 11-13-87  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 [Signature] 11-30-87  
 PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 11/9/87  
 DIRECTOR DATE

DATE: 11/9/87  
 BUREAU OF ENGINEERING

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-6-87  
 MS

**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] 9-4-87  
 Date

**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] 9-1-87  
 Date

**CLARK • FINEFROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINISTREL WAY • COLUMBIA, MD 21045 • (301) 381-7200 - BALTO. • (301) 621-8100 - WASH

DESIGNED	D.G.T.	SEDIMENT & EROSION CONTROL PLAN	SCALE 1"=30'
DRAWN	V.L.M.	LOTS 1 THRU 8 & 12 THRU 49	DRAWING 6 of 7
CHECKED	D.G.T.	COLUMBIA VILLAGE OF HICKORY RIDGE	JOB NO. 87-009
DATE	9-1-87	SECTION 4 AREA I 5TH ELECTION DISTRICT	FILE NO. 87-0095
		FOR: THE RYLAND GROUP, INC. 7130 Ministrel Way - Suite #215 Columbia, MD 21045	

SDP-88-43.



**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, disking 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 800 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.

**Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 40 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 15 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 untreated 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 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, disking 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 bushels 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 untreated 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.

**SEDIMENT CONTROL NOTES**

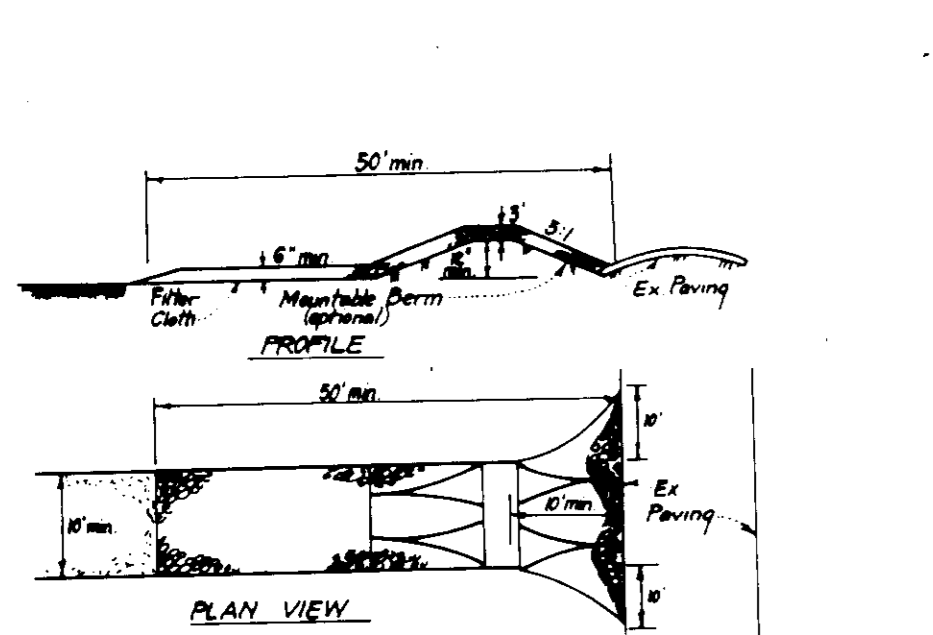
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 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 permanent 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 seedings 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	15.70 Acres
Area Disturbed	2.40 Acres
Area to be seeded or paved	2.25 Acres
Area to be vegetatively stabilized	2.25 Acres
Total Cut	Cu. yds
Total Fill	Cu. yds
Off-site 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 DSW 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).
- 13) The total amount of straw bale/dike/silt fence equals 2,630 L.F.

**CONSTRUCTION SEQUENCE:**

NOTE: Delay installation of stabilized construction entrance (SCE) for lots 16 & 17 until existing trap #1 (F 87-21) has been removed. Existing trap #1 can only be removed upon stabilization of its drainage area and with approval of the sediment control inspector. For temporary access to lots 16 & 17, use SCE's on lots 15 & 18 if applicable. # of days

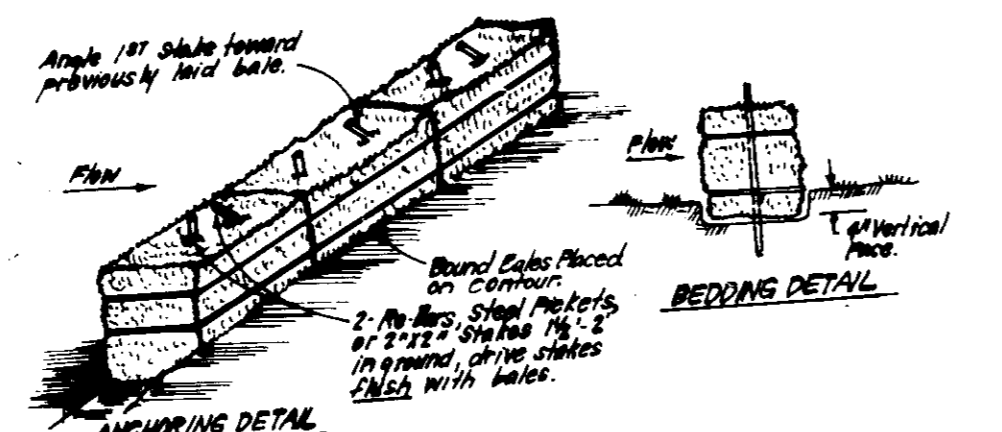
1. Obtain grading permit \_\_\_\_\_ 7
2. Install sediment & erosion control measures & stabilize. \_\_\_\_\_ 7
3. Excavate foundations & rough grade \_\_\_\_\_ 60
4. Construct structures, sidewalks & driveways \_\_\_\_\_ 75
5. Final grade & stabilize in accordance with standards & Specifications \_\_\_\_\_ 30
6. Upon approval of the Sediment Control Inspector, remove sediment & erosion controls and stabilize those areas. Deposit sediment from traps by direction of the sediment control inspector \_\_\_\_\_ 7



**CONSTRUCTION SPECIFICATIONS:**

1. Stone size - Use 2" stone or equivalent or recycled concrete equivalent.
2. Length - As required, but not less than 30" long, except on a simple residence lot where a 24" length minimum length would apply.
3. Thickness - Not less than 8" inches.
4. Width - Ten (10) feet minimum, but not less than the full width of 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 simple 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 movable berm with 5" 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 for construction entrances which are not covered by an impervious layer to trap sediment. All sediment applied, graded, swept or tracked onto public rights-of-way must be removed immediately.
8. Weeding - Weeds shall be checked to remove sediment prior to entrance on all areas disturbed with stone and which drain into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

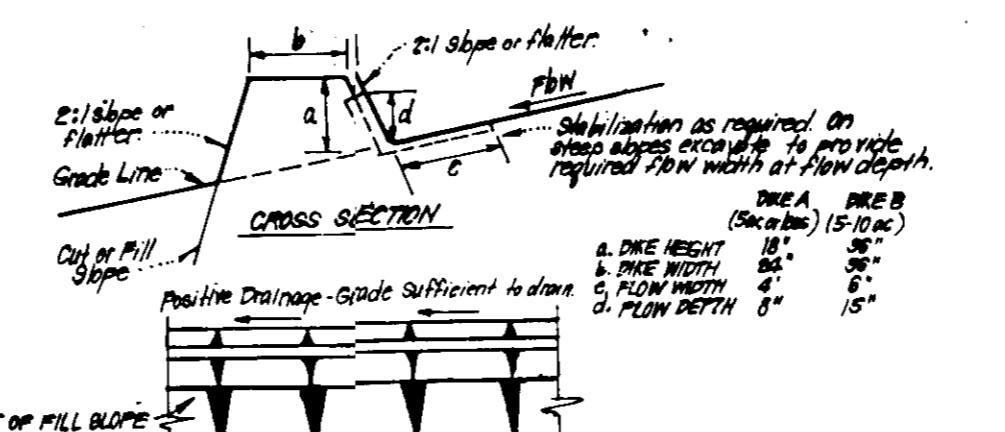
**STABILIZED CONSTRUCTION ENTRANCE (SCE)**



**CONSTRUCTION SPECIFICATIONS:**

1. Bales shall be placed at the top of a slope or on the contour and in a row with ends slightly offsetting the adjacent bales.
2. Each bale shall be embedded in the soil at a min. of 4" and placed so the bindings are horizontal.
3. Bales shall be secured together in place by either 2 stakes or 1/2" bars driven thru the bales.
4. The 1/2" bars or stakes shall be driven through the previously laid bales at an angle to force the bales together. Stakes shall be replaced as needed.
5. Inspection shall be performed and repair/replacement shall be made promptly as needed.
6. Bales shall be removed when they have served their usefulness as a wall to block or impede storm flow or drainage.

**STRAW BALE DIKE DETAIL (SBD)**



**CONSTRUCTION SPECIFICATIONS:**

1. All dikes shall be constructed by earth-moving equipment.
2. All dikes shall have positive drainage to an outflow.
3. Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction equipment.
4. Diked sections should be adjusted as needed to utilize a stabilized soil while crossing by construction equipment.
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 other site criteria in the drainage area above the dike are not adequately stabilized.
6. Sedimentation shall be: (A) in accordance with standard specifications for sand and straw mulch or straw mulch (if not in seeding season), (B) flow channel as per chart below.

**EARTH DIKE DETAIL (E.D.)**

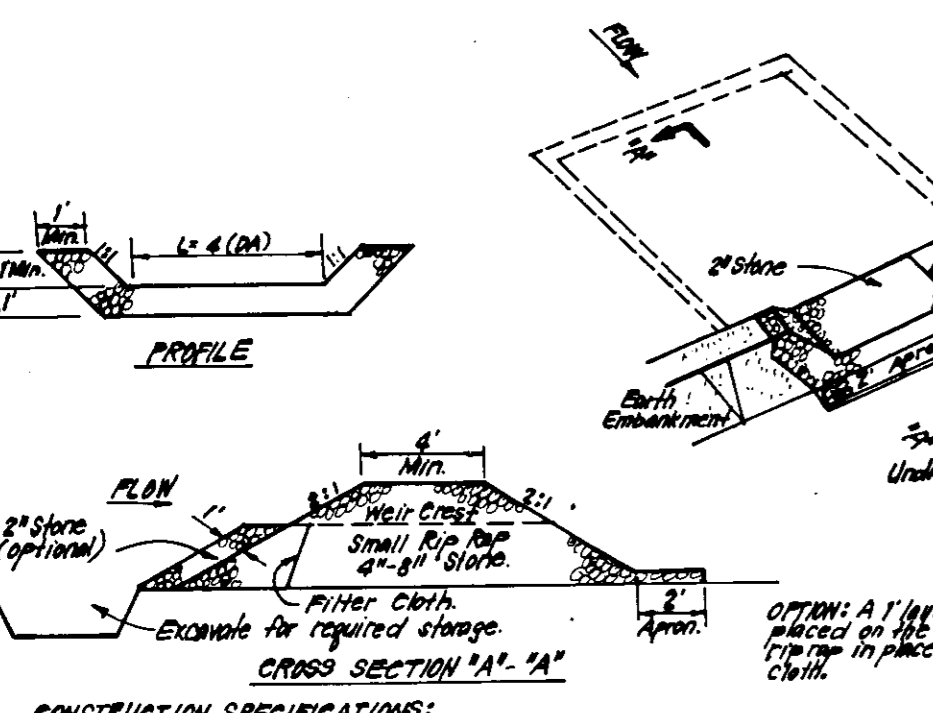
**FLOW CHANNEL STABILIZATION**

TYPE OF TREATMENT	CHANNEL GRADE	DISE A	DISE B
1	1.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 5.0%	Seed & Straw Mulch	Seed with or without or Excelsior Seed & Straw
3	5.1 - 8.0%	Seed with or without or Straw Lined Rip Rap or Stone	Lined Rip Rap or Stone
4	8.1 - 25.0%	Lined Rip Rap or Stone Engineering Design	Lined Rip Rap or Stone Engineering Design

A slope to be 2:1 slope or steeper concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.  
 B. Rip Rap to be 4" x 4" in a layer at least 4" thick, pressed into soil.  
 C. Appropriate equivalent can be substituted for any of the above materials.

**EARTH DIKE DETAIL (E.D.)**

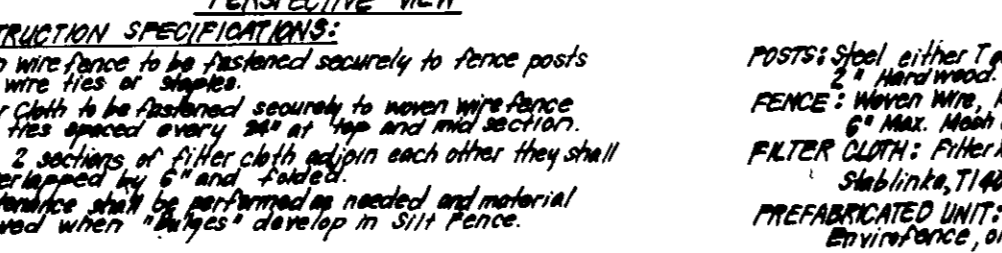
7. Periodic inspection and Required Maintenance must be provided after each rain.



**CONSTRUCTION SPECIFICATIONS:**

1. Area under enhancement shall be cleared, grubbed and stripped of any vegetation and root mat. The area shall be compacted.
2. The 1/2" material for the enhancement shall be free of rocks and other woody vegetation as well as any other debris, rocks, organic material or other objectionable material. The enhancement shall be compacted by tamping with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or steeper.
4. The stone used in the outlet shall be 2" x 2" x 2" or larger.
5. Sediment shall be trapped and flow restricted to the sediment trap. The sediment trap shall be constructed to the design shown on the plan.
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.

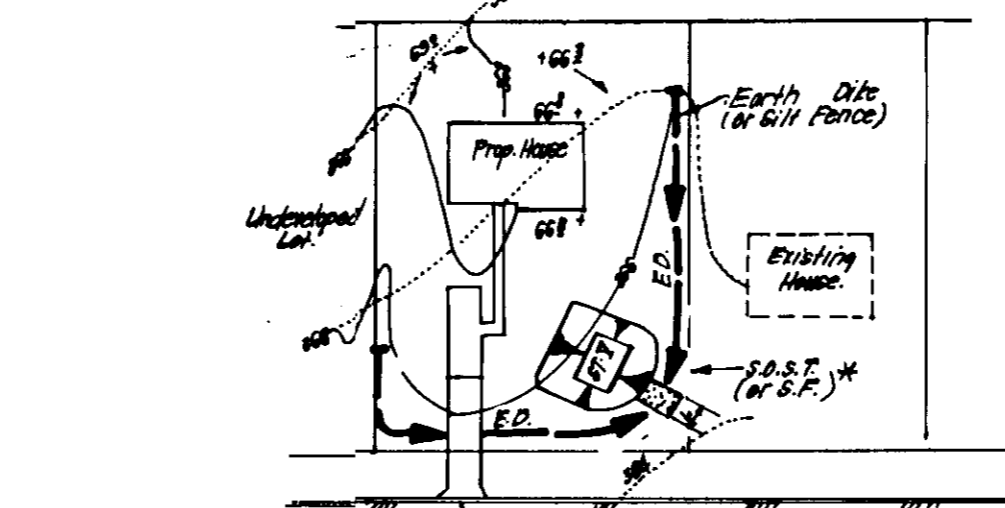
**STONE OUTLET SEDIMENT TRAP (S.O.S.T.) STV.**



**CONSTRUCTION SPECIFICATIONS:**

1. Heavy wire fence to be installed securely to fence posts with wire ties or staples.
2. Filter cloth to be attached securely to heavy wire fence with ties spaced every 30" at top and mid section.
3. When 2 sections of filter cloth align each other they shall be overlapped by 6" and stapled.
4. Maintenance shall be performed as needed and material removed when "pulpies" develop in Silt Fence.

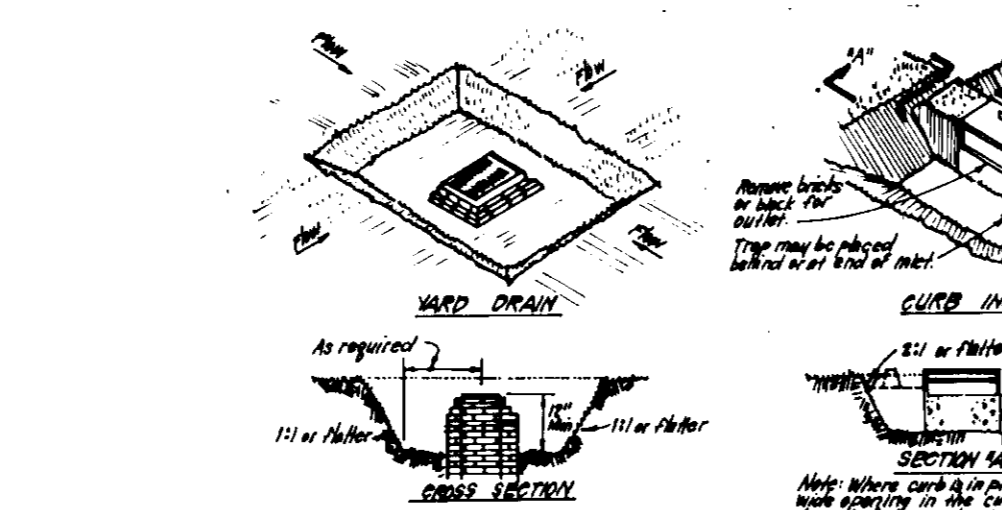
**SILT FENCE DETAIL (S)**



**TABLE**

NO.	DESCRIPTION	AREA	PERCENTAGE	AMOUNT
1	STRAW BALE DIKE	100	100%	100
2	EARTH DIKE	100	100%	100
3	SILT FENCE	100	100%	100
4	STONE OUTLET SEDIMENT TRAP	100	100%	100
5	STORM INLET SEDIMENT TRAP	100	100%	100
6	STABILIZED CONSTRUCTION ENTRANCE	100	100%	100

**SINGLE LOT SEDIMENT CONTROL PLAN**



**CONSTRUCTION SPECIFICATIONS:**

1. Sediment shall be removed and flow restricted to the sediment trap. The sediment trap shall be constructed to the design shown on the plan.
2. The structure shall be inspected after each rain and repairs made as needed.
3. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
4. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
5. All cut and fill slopes shall be 2:1 or steeper.

**STORM INLET SEDIMENT TRAP (S.I.S.T.) STV**

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND

Reviewed for HOWARD S.C.D. Name and meets Technical Requirements

Signature: [Signature] Date: 11-2-87

U.S. Soil Conservation Service

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

Signature: [Signature] Date: 11/2/87

DEVELOPER'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 unobjectionable necessary.

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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: 9-1-87

CLARK • FINECROCK & SACKETT, INC.  
 ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7200 • BALTO • (301) 621-9100 - WASH

DESIGNED: D.G.T. SCALE: 1"=30'

DRAWN: V.H.L. FILE NO: 87-009

CHECKED: V.L.M. FILE NO: 87-009

DATE: 9-1-87

FOR: THE RYLAND GROUP, INC.  
 7130 Minstrel Way - Suite #215  
 Columbia, MD 21045

SDP-88-43.