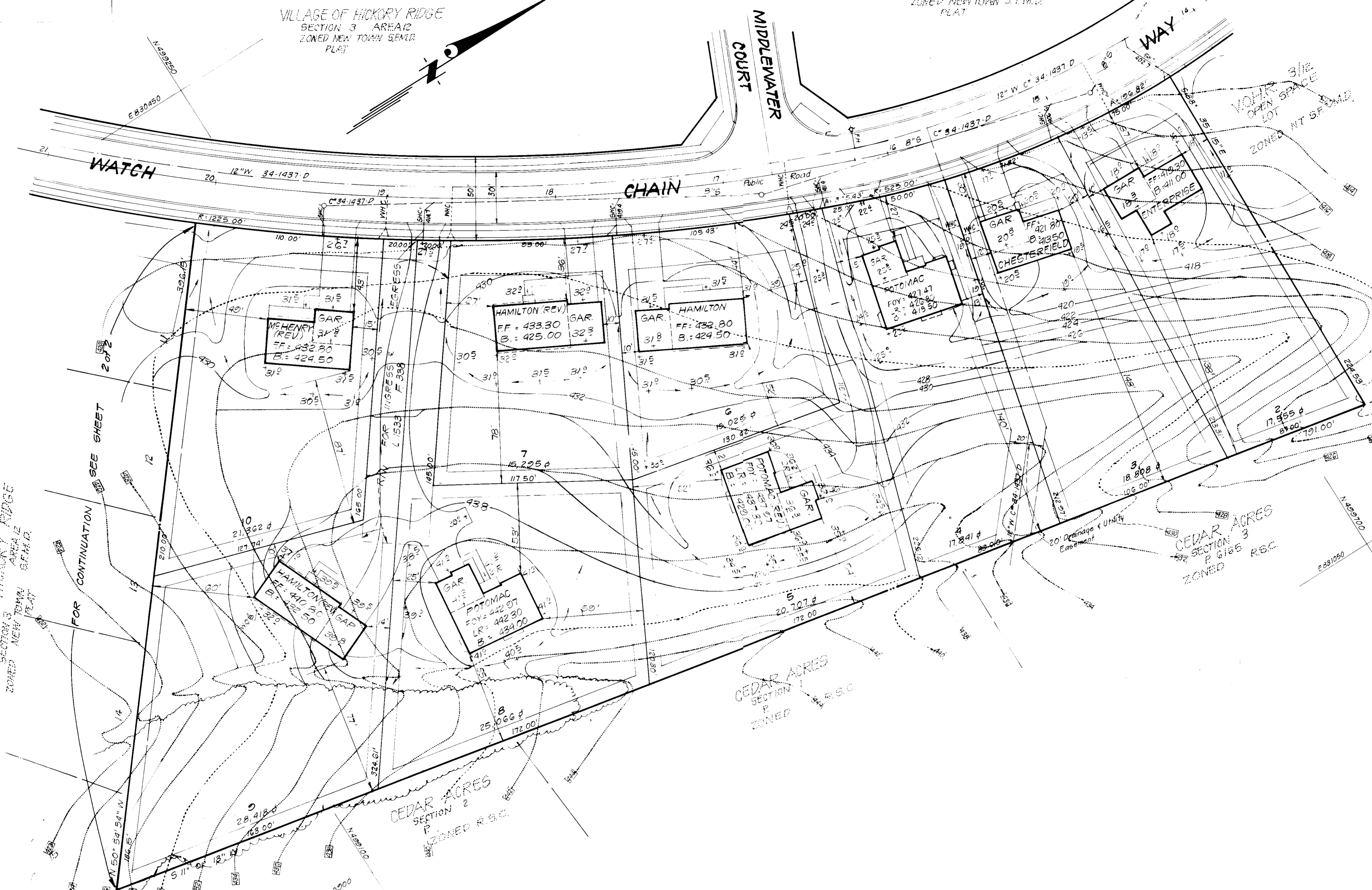


VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 12
ZONED NEWTOWN S.F.M.D.
PLAT

VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 12
ZONED NEWTOWN SEMI
PLAT



GENERAL NOTES:

1. The land included is zoned New Town S.F.M.D.
2. Coordinates are based upon traverse controls for Columbia established by Maps, Inc. in 1965 and Purdom and Jeschke in 1968 which controls were tied to the Maryland Bureau of Control Surveys Monuments and to U.S. Coast and Geodetic Survey Monuments, Ho Co Ctr. Pl. 2639002 & 2639003.
3. All roads are public and existing.
4. Any damage to county owned rights of way to be corrected at the Developer's expense.
5. Total Area included: 8.08
6. Total Number of Lots: 21
7. Storm Water Management for this site provided in central facility located in V.O.H.R.
8. Reference Final Development Plan.

LEGEND:

1. Contour Interval 2 Ft
2. Existing Contour 410
3. Proposed Contour 410
4. Spot Elevation +10.5
5. Direction of Drainage
6. Existing Trees to be saved
7. Walk Out Basement

LOT#	STREET	ADDRESS
2	6005	WATCH CHAIN WAY
3	6009	
4	6013	
5	6017	
6	6021	
7	6025	
8	6029	
9	6033	
10	6037	
11	6041	
12	6105	
13	6108	FENCE POST COURT
14	6113	
15	6117	
16	6121	
17	6120	
18	6116	
19	6112	
20	6108	
21	6104	
22	6100	

SUBDIVISION NAME	COLUMBIA	SECT./AREA	3/12	LOTS	2-22
PLAT#	884-2	BLOCK#	11	ZONE#	BT
		TAX/ZONE MAP	35	ELEC DIST	5TH
				CENSUS TR	2003.C1
WATER CODE	E-27	SEWER CODE	250.000		

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 10-31-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 11-3-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 11-3-86

8-21-86



CLARK · FINFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

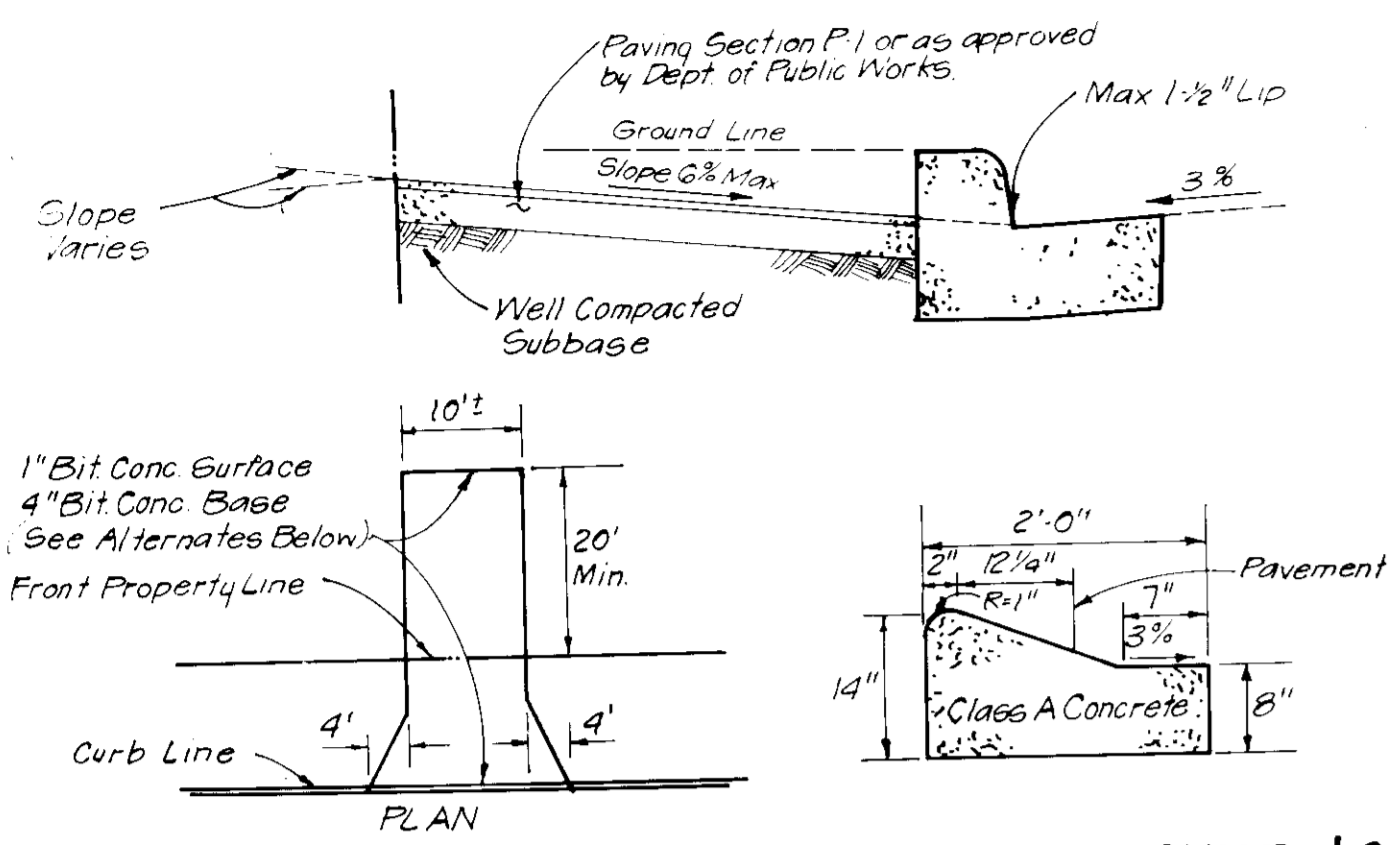
DESIGNED: BAF
DRAWN: VHL
CHECKED: BAF, JME
DATE: 7-10-82

SITE DEVELOPMENT PLAN
LOTS 2 THRU 22
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 12
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR THE RYLAND GROUP INC.
7130 Minstrel Way, #215
Columbia, MD 21045

SCALE: 1"=30'
DRAWING: 1 of 7
JOB NO.: 86-037
FILE NO.: 86-037

SDP-87-19.

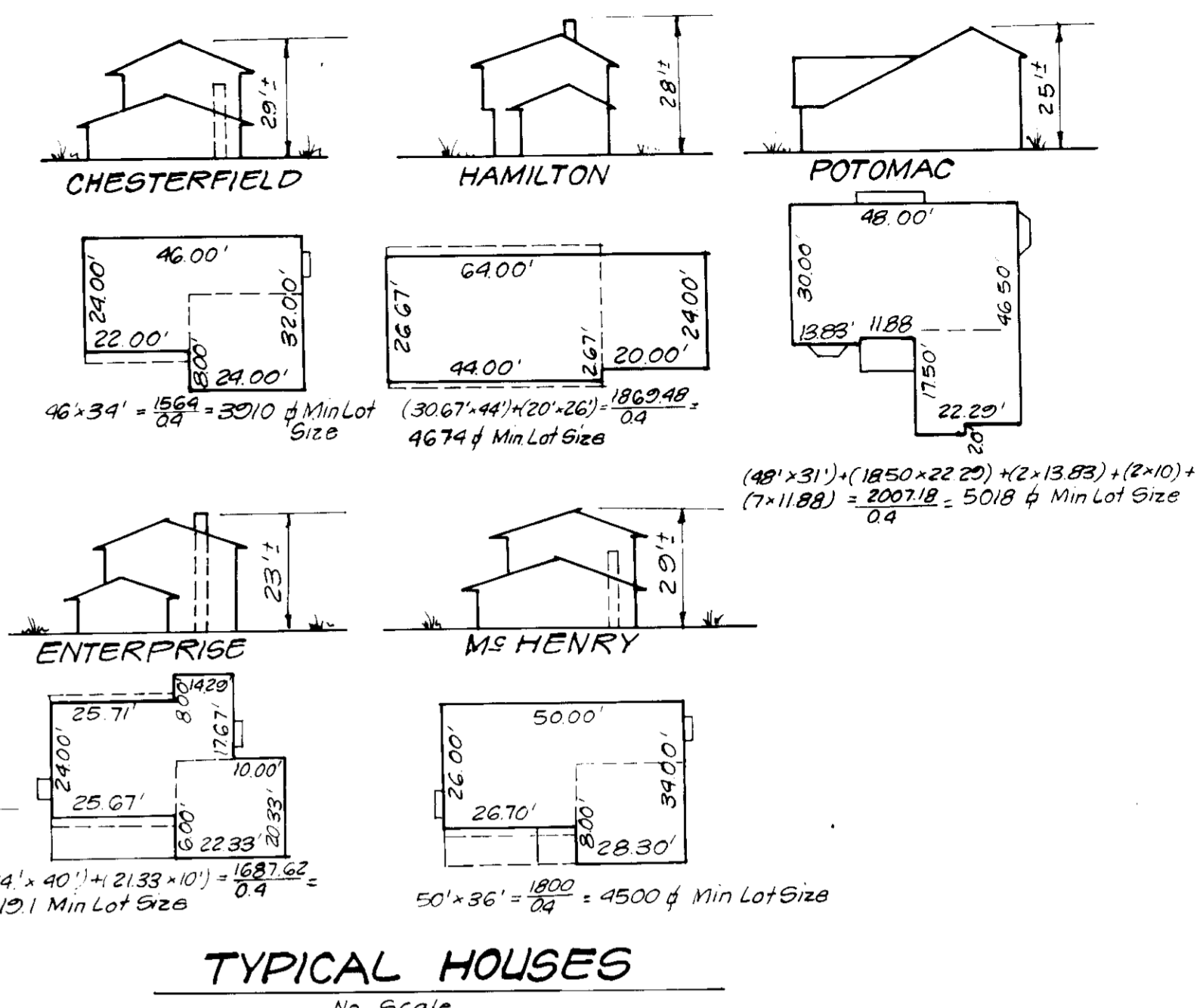
NOTE: Materials and Construction shall be done in accordance with Ho Co Road Construction Code



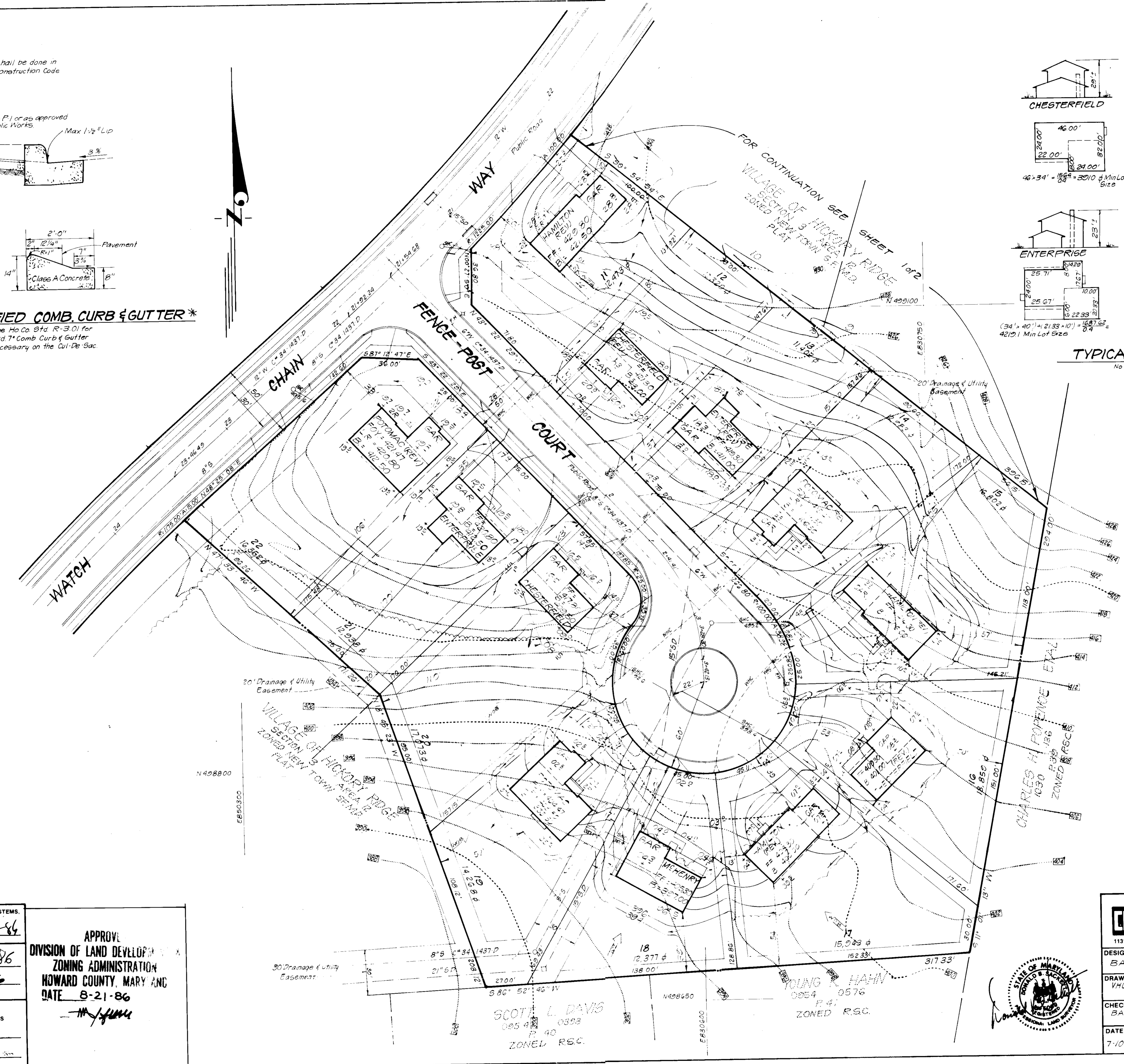
DRIVEWAY ABUTTING MODIFIED COMB. CURB & GUTTER *

ALTERNATE #1
 1" Bit Conc Surface
 2" Bit Conc Base
 5" Gravel

* See Ho Co Std. R-301 for Std. 7" Comb. Curb & Gutter necessary on the Cul-De-Sac



TYPICAL HOUSES
 No Scale



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 10-21-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] DATE: 11-3-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 11-3-86

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 11-3-86

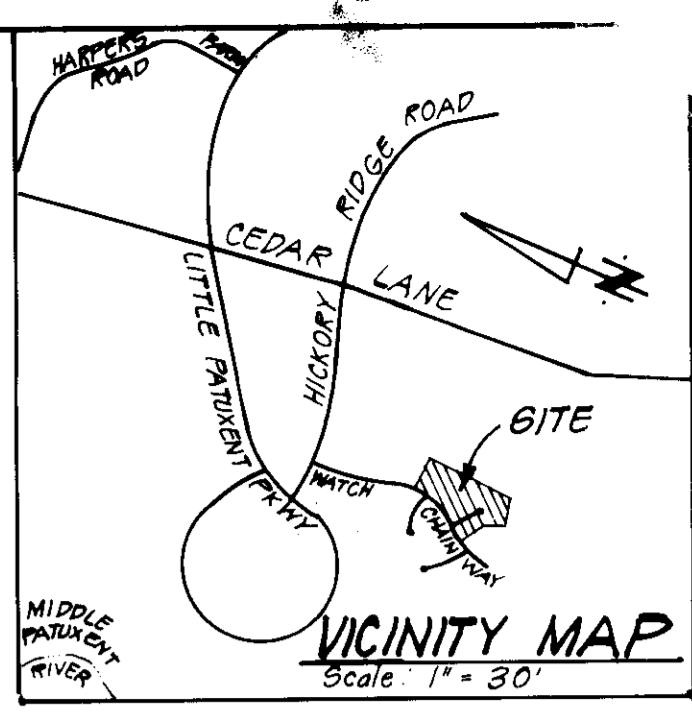
APPROVAL
 DIVISION OF LAND DEVELOPMENT
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 8-21-86

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED BAF	SITE DEVELOPMENT PLAN LOTS 2 THRU 22 COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 12 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP INC. 7130 Minirel Way Suite 215 Columbia, MD 21045	SCALE 1" = 30'
DRAWN VHL		DRAWING 2 of 7
CHECKED BAF		JOB NO. 36-037
DATE 7-10-86		FILE NO. 86-037

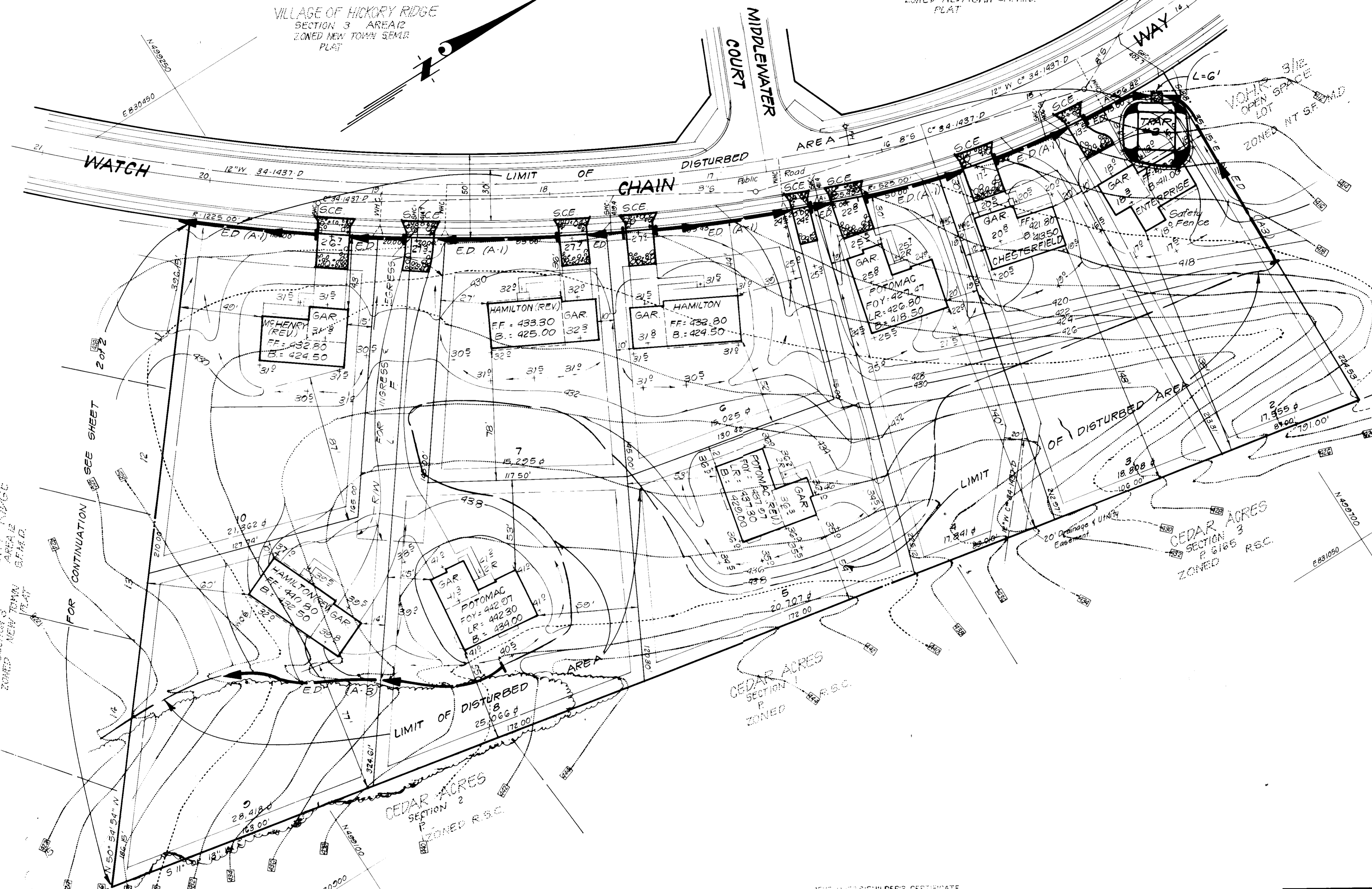
REVISION
 Revised per HCD comments
 Date: 8-20-86





VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 12
ZONED NEWTOWN S.F.M.D.
PLAT

VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 12
ZONED NEW TOWN SEMI
PLAT



TRAP #2 SOST (ST-V)

DA = 15 Ac.
Storage Required = 2700 cf
Storage Provided = 2704 cf
Depth = 4'
Top of Stone Crest = 4120
Bottom Elevation = 4070
Bottom Dimensions: 22' x 22'
Clean Out Elevation = 409.0

LEGEND:

- 1 Contour Interval 2 Ft
- 2 Existing Contour 410
- 3 Proposed Contour 410
- 4 Spot Elevation +10.5
- 5 Direction of Drainage
- 6 Existing Trees to be saved
- 7 Walk Out Basement
- 8 Straw Bale Dike / Silt Fence
- 9 Earth Dike
- 10 Stabilized Construction Entrance

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] DATE: 11-11-86
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: [Signature] DATE: 11-3-86
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [Signature] DATE: 11-3-86
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 10-28-86
CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 10-29-86

APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 8-21-86

Reviewed for HOWARD S.C.D.
Name: [Signature]
and meets Technical Requirements:
[Signature] DATE: 10-21-86
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT
[Signature] DATE: 10/27/86
Approved

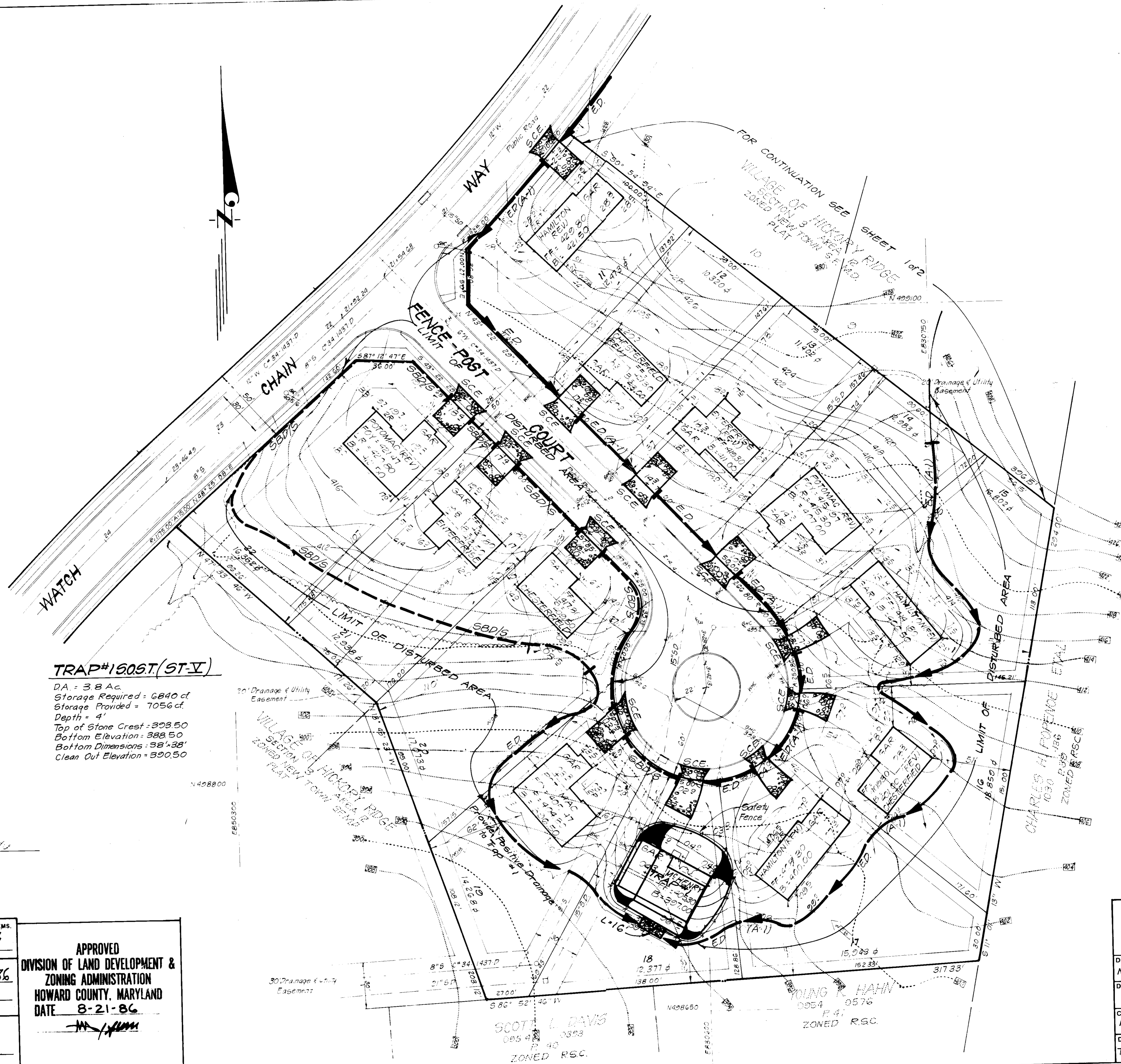
DEVELOPER'S/OWNER'S CERTIFICATE
"We certify that all development and construction will be done according to the plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize the site to be inspected by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
[Signature] DATE: 7-23-86
Maurice M. Simpkins

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: 7-23-86
G. Nelson Clark

SUBDIVISION NAME: COLUMBIA	SECT./AREA: 3/12	LOTS: 2-22
VILLAGE OF HICKORY RIDGE	PLAT #	TAX. ZONE MAP: 35
PLAT #	ZONE #	ELEC. DIST: 5TH
WATER CODE:	SEWER CODE:	

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED: MCB	SEDIMENT & EROSION CONTROL PLAN	SCALE: 1" = 30'
DRAWN: YHL	LOTS 2 THRU 22	DRAWING: 3 of 7
CHECKED: MCB	COLUMBIA	JOB NO.: 86-037
DATE: 7-22-86	VILLAGE OF HICKORY RIDGE	FILE NO.: 86-0375E
	SECTION 3 AREA 12	
	5TH ELECTION DISTRICT	
	HOWARD COUNTY, MARYLAND	
	FOR THE RYLAND GROUP INC.	
	7130 Minstrel Way, #215	
	Columbia, MD 21045	



TRAP#1505.T (ST-V)

DA = 3.8 Ac.
 Storage Required = 6840 cf.
 Storage Provided = 7056 cf.
 Depth = 4'
 Top of Stone Crest = 393.50
 Bottom Elevation = 388.50
 Bottom Dimensions = 38' x 38'
 Clean Out Elevation = 390.50

Reviewed for **HOWARD** S.C.D.
 Name
 All-natural Technical Requirements
 Signature: *[Signature]* Date: 10-21-86
 U.S. Soil Conservation Service

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

[Signature] Approved Date: 10-21-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 11-31-86
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *[Signature]* DATE: 11-3-86
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 10-21-86
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 10-21-86

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 8-21-86

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: *Maurice W. Simpkins* Date: 7-23-86
 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.
 Signature: *G. Nelson Clark* Date: 7-23-86
 G. Nelson Clark Date

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED MCB	SEDIMENT & EROSION CONTROL PLAN LOTS 2 THRU 22 COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 12 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP INC. 7130 Minnetonka Way, Suite 215 Columbia, MD 21045	SCALE 1" = 20'
DRAWN VHL		DRAWING 4-7
CHECKED MCB		JOB NO. 86-037
DATE 7-22-86		FILE NO. 86-037
S.D.P.-87-13C		

- 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 conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 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.
- 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.
- 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 seedings (Sec. 50) and (Sec. 51) sod (Sec. 54), temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination 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	808 Acres
Area Disturbed	538 Acres
Area to be roofed or paved	708 Acres
Area to be vegetatively stabilized	430 Acres
Total Cut	1410 Cu. yds
Total Fill	530 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 DW 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-Built" 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).
- The total amount of straw bale dikes/silt fence equals 720 L.F.

CONSTRUCTION SEQUENCE:

	No of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	5
B. Excavate for foundations and Rough Grade & Temporarily Stabilize	60
C. Construct Structures, Sidewalks and Driveways	180
D. Final Grade and scabblize in accordance with Stds. & Specs	30
E. Upon approval of the sediment control inspector remove sediment and erosion controls and stabilize.	14

*NOTE: Delay construction on Lots 2 and 18 until removal of Sediment Traps. Sediment traps not to be removed until all areas draining to them have been stabilized. Utilize Single Lot Sediment Control Plan on Lots 2 and 18.

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 & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 8-21-86

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

Signature: Stephen L. Guler Date: 10/27/86

U.S. Soil Conservation Service

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

Signature: Maurice M. Simpkins Date: 7-23-86

DEVELOPER'S/BUILDER'S CERTIFICATE

I hereby certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project 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.

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: G. Nelson Clark Date: 7-23-86

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED	MCB	SCALE	As Shown
DRAWN	YHL	DRAWING	5 of 7
CHECKED	MCB	JOB NO.	86-037
DATE	7-22-86	FILE NO.	86-0375

SEDIMENT & EROSION CONTROL PLAN
LOTS 2 THRU 22
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 12
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: THE RYLAND GROUP INC.
7130 Minnetel Way # 215
Columbia, MD 21045

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

- 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).
- 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 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 redisturbed where a short-term vegetative cover is needed.

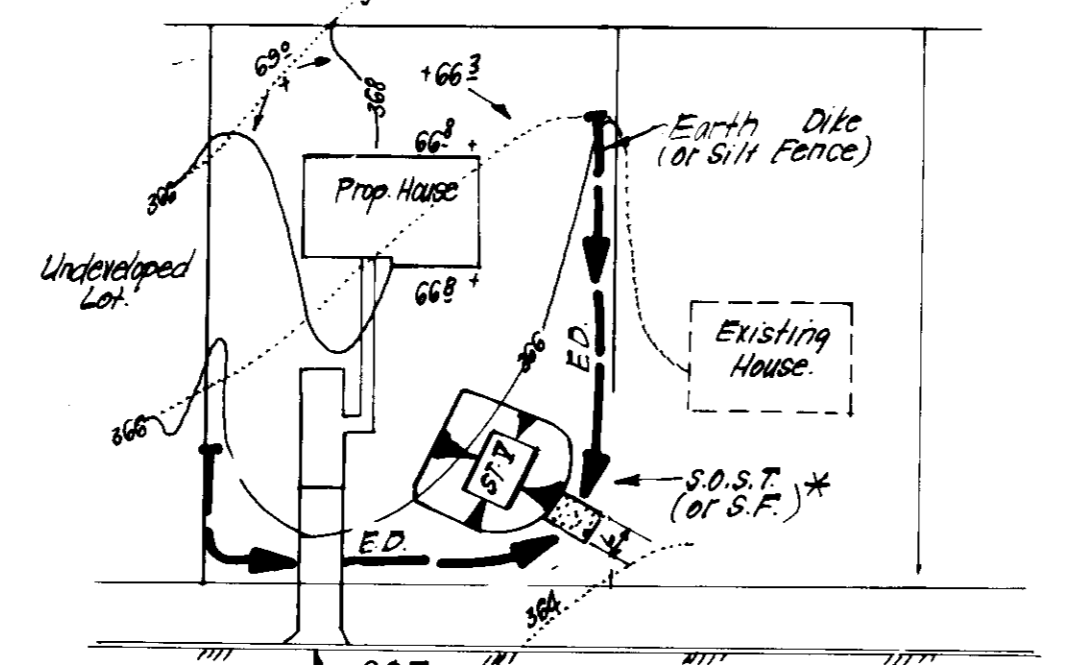
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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 15, seed with 3 lbs per acre of weeping lovegrass (4.0 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.

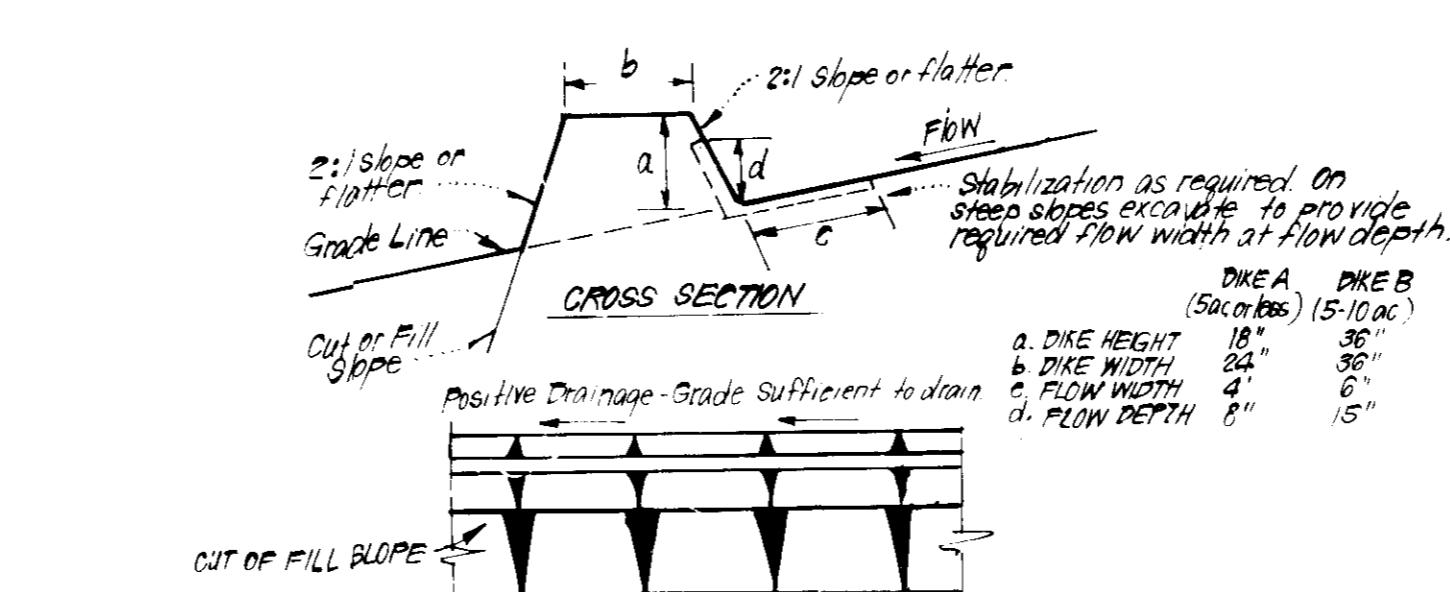


*NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap

W.S.D.S.T. (S.T.V.)	FR	16	12
LOT SIZE	VA	AC	AC
1	2	2	2
2	2	2	2
3	2	2	2
4	2	2	2
5	2	2	2
6	2	2	2
7	2	2	2
8	2	2	2
9	2	2	2
10	2	2	2
11	2	2	2
12	2	2	2
13	2	2	2
14	2	2	2
15	2	2	2
16	2	2	2
17	2	2	2
18	2	2	2
19	2	2	2
20	2	2	2
21	2	2	2
22	2	2	2

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

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE



CONSTRUCTION SPECIFICATIONS:

- All dikes shall be compacted by earth-moving equipment
- All dikes shall have positive drainage to an outlet
- Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic
- Field location should be adjusted as needed to utilize a stabilized safe outlet
- Earth dikes shall have an outlet that discharges 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
- 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

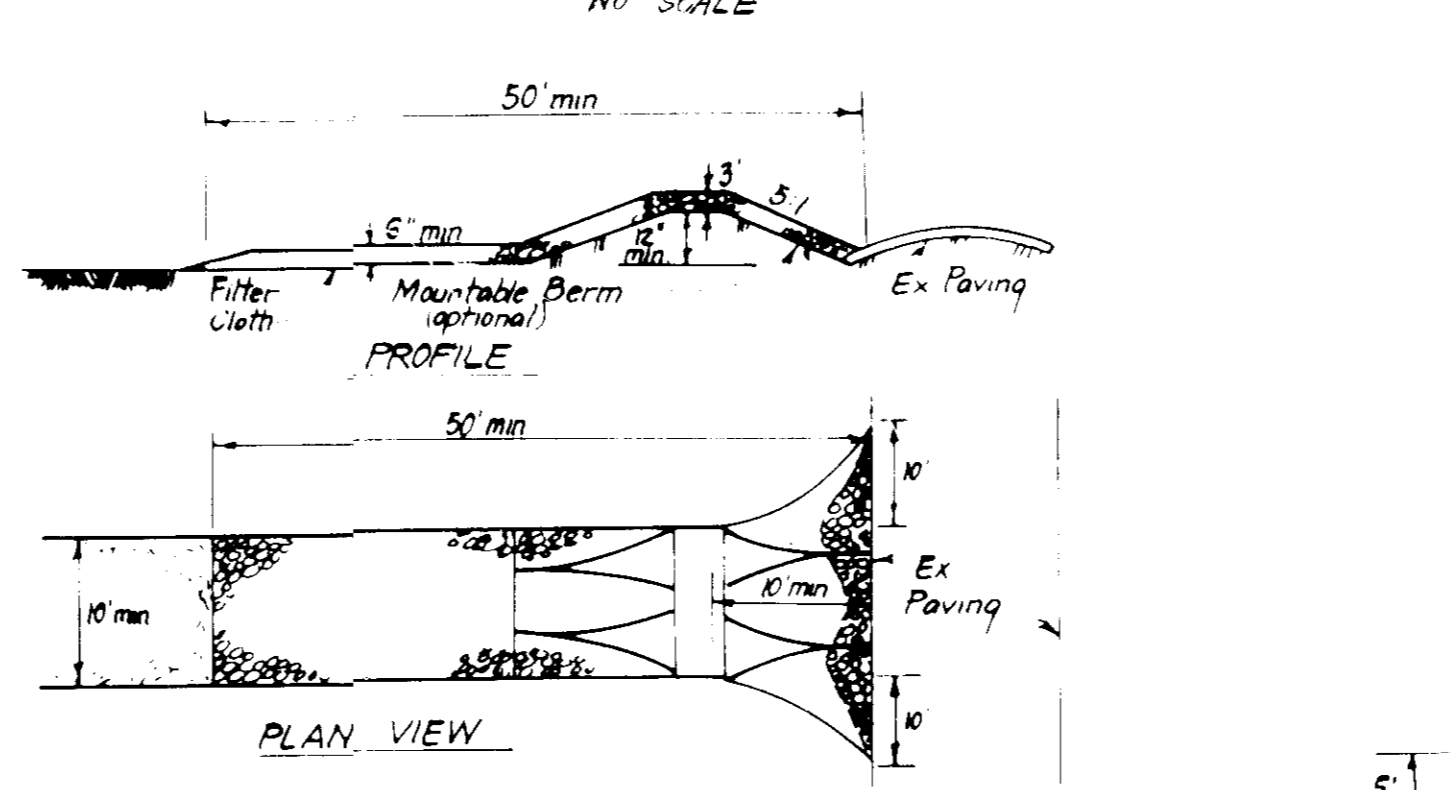
TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 5.0%	Seed & Straw Mulch	Seed with/ or Excelsior/Sod, 2" Stone
3	5.1 - 8.0%	Seed with/ or Sod; 2" Stone	Lined Rip Rap 4"-8" Stone
4	8.1 - 20.0%	Lined Rip Rap 4"-8" Stone	Engineering Design

A Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.

B Rip Rap to be 4" to 8" in size, 1/2" thick, pressed into soil.

C Approved equivalents can be substituted for any of the above materials.

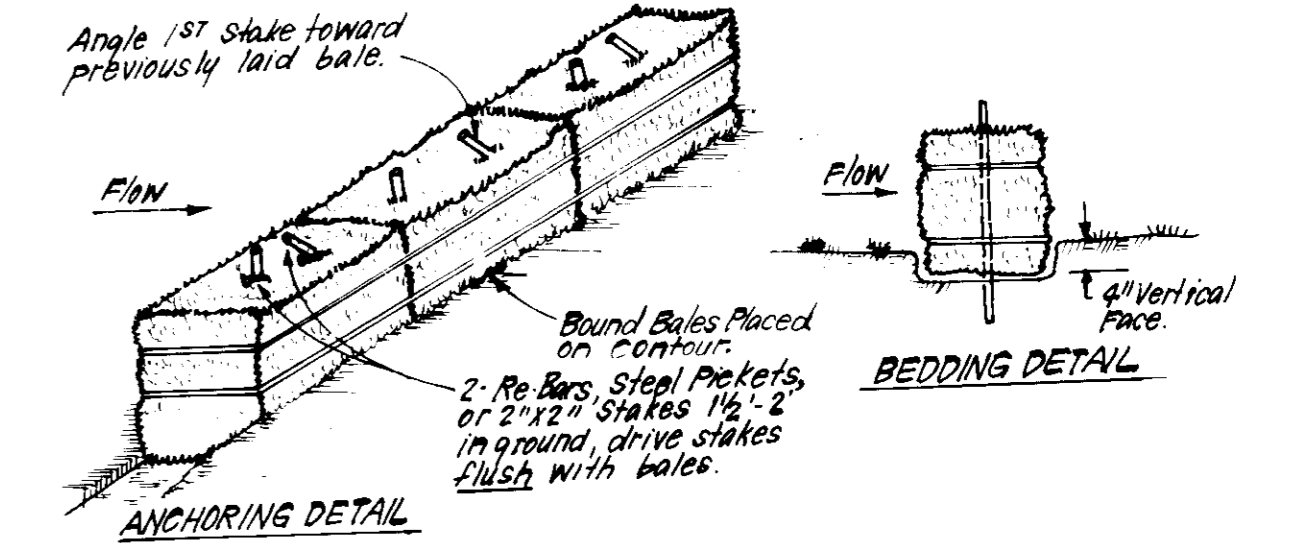
7. Periodic inspection and Required Maintenance must be provided after each rain.



CONSTRUCTION SPECIFICATIONS:

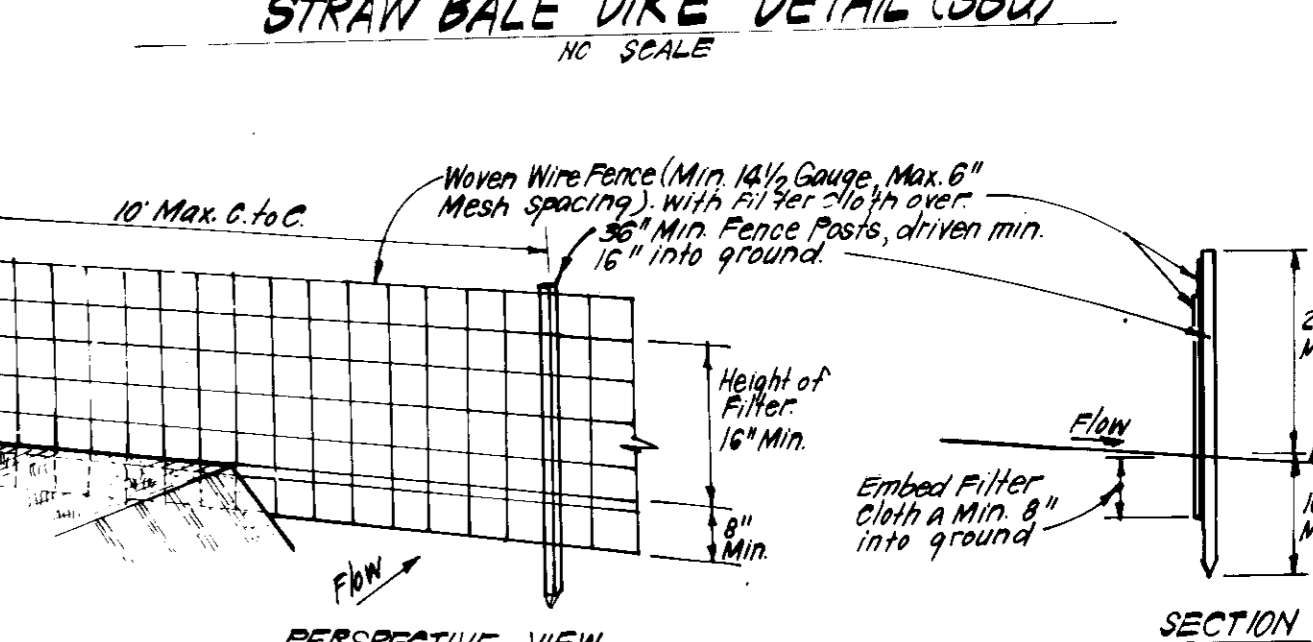
- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet except on a single residence lot where a 30 foot minimum length would apply.
- Thickness - Not less than six (6) inches
- Width - Ten (10) feet minimum, but not less than the full 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' 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 soiled, dropped, 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:

- 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 re-bars driven thru the bale. The 1st stake in each bale shall be driven through the previously laid bale at an angle to force 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.

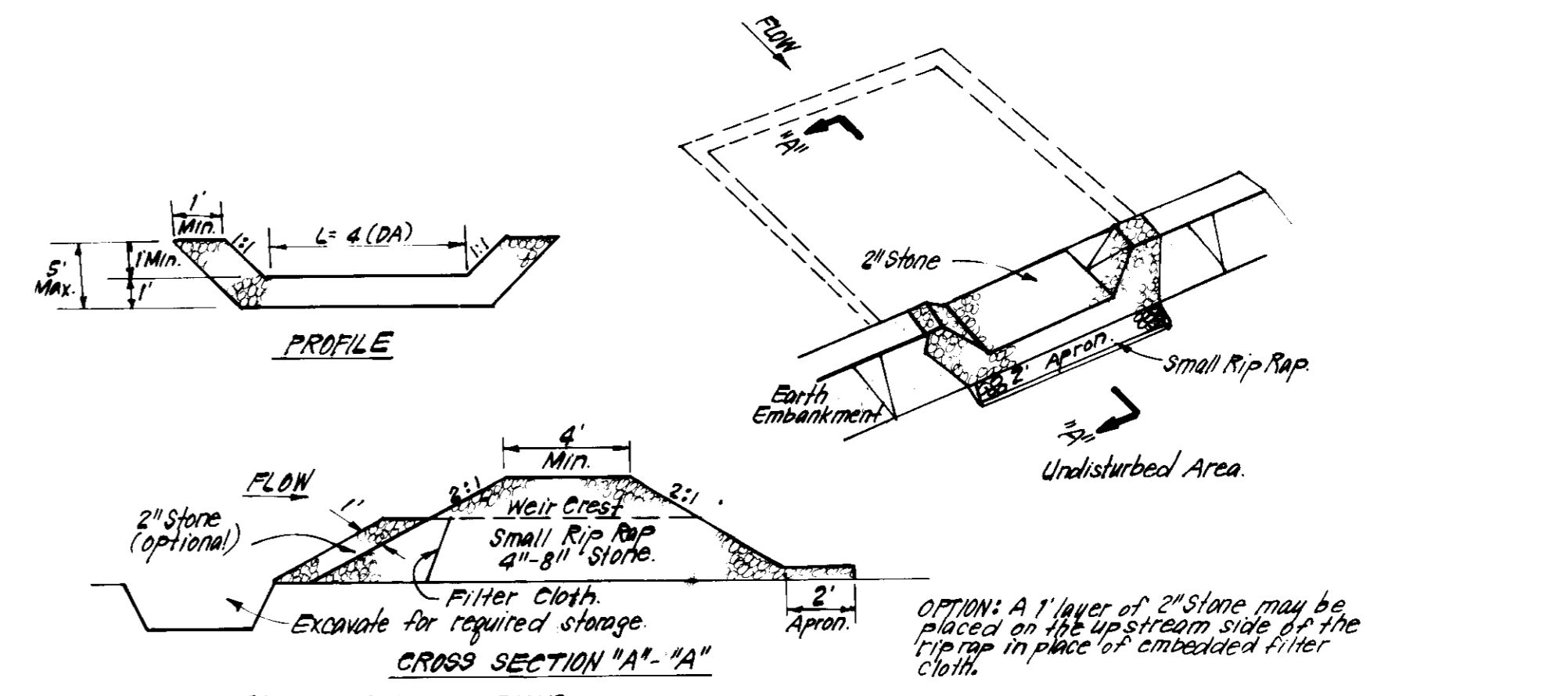


CONSTRUCTION SPECIFICATIONS:

- 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 36" 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" Hardwood
FENCE: Woven Wire, 14 1/2 Gauge
6" Max. Mesh Opening
FILTER CLOTH: Filter Cloth, Miraflex 100X, Stabilink, T140N or Approved equivalent
PREFABRICATED UNIT: Geofab, Envirofence, or Approved equal.

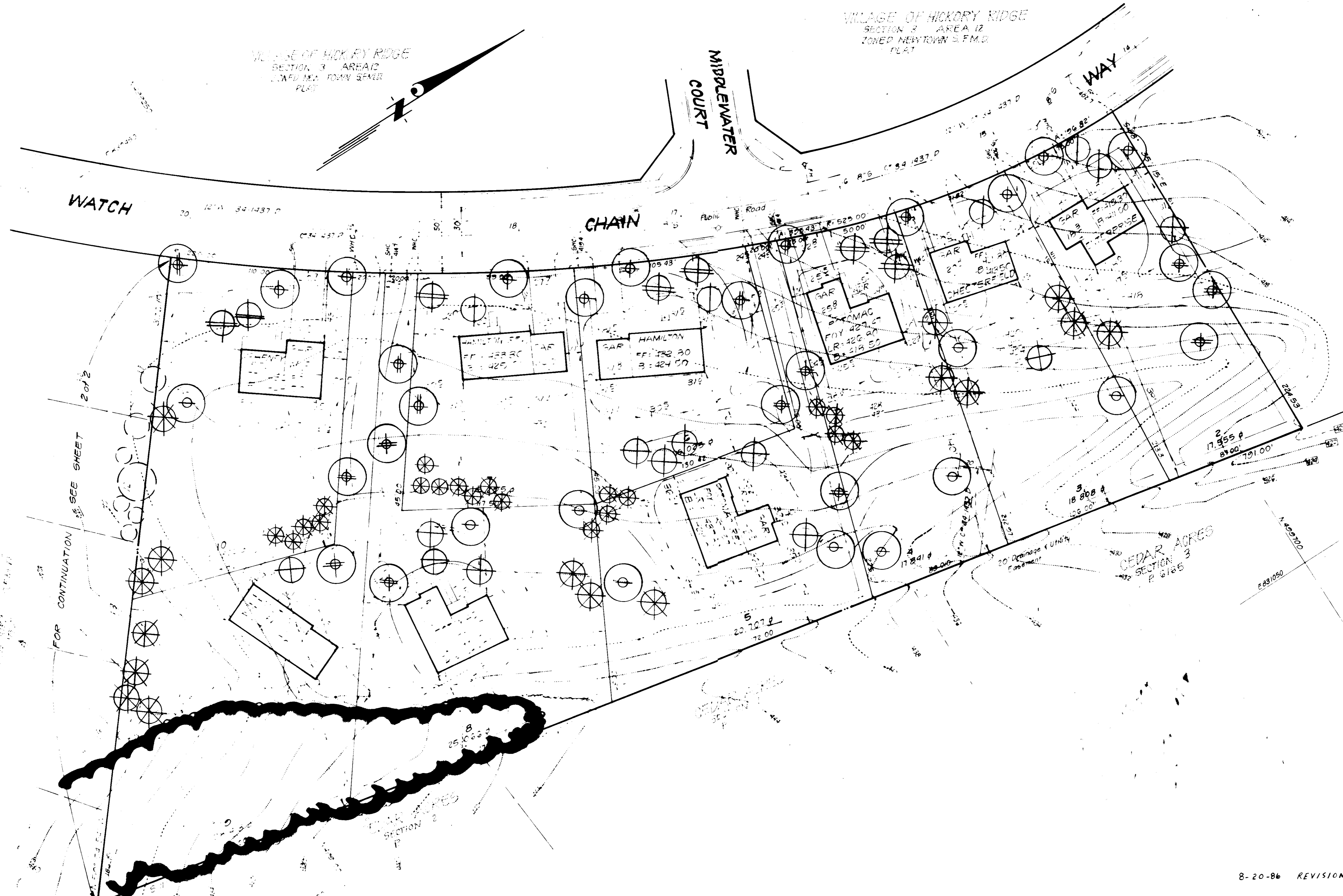
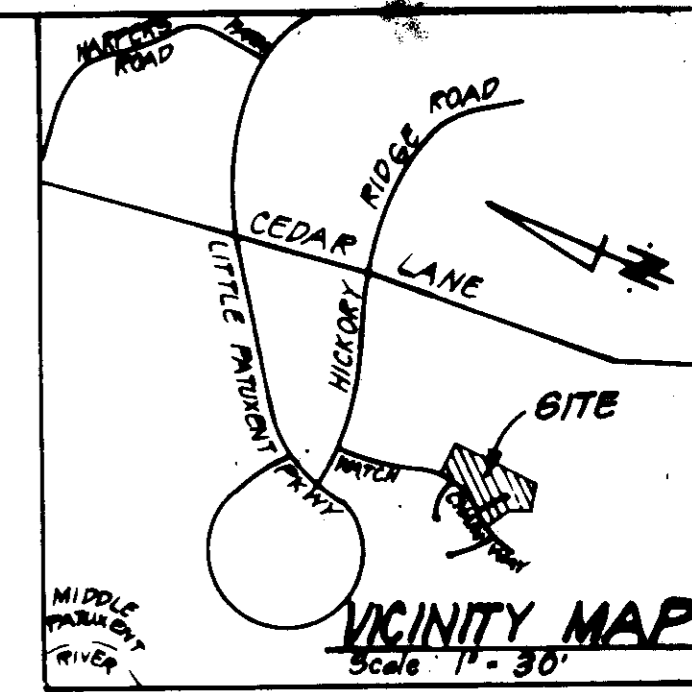
SILT FENCE DETAIL (S)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The top 12 inches shall be compacted.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- 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 of embedded filter cloth in the rip rap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the drainage area stabilized when the drainage area has been properly stabilized.

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



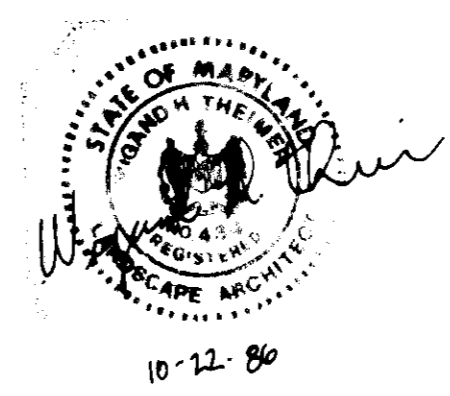
8-20-86 REVISION: AS PER HRD COMMENTS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 10-31-86
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 [Signature] 11-3-86
 PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 8-21-86
 DIRECTOR DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 8-21-86
 [Signature]

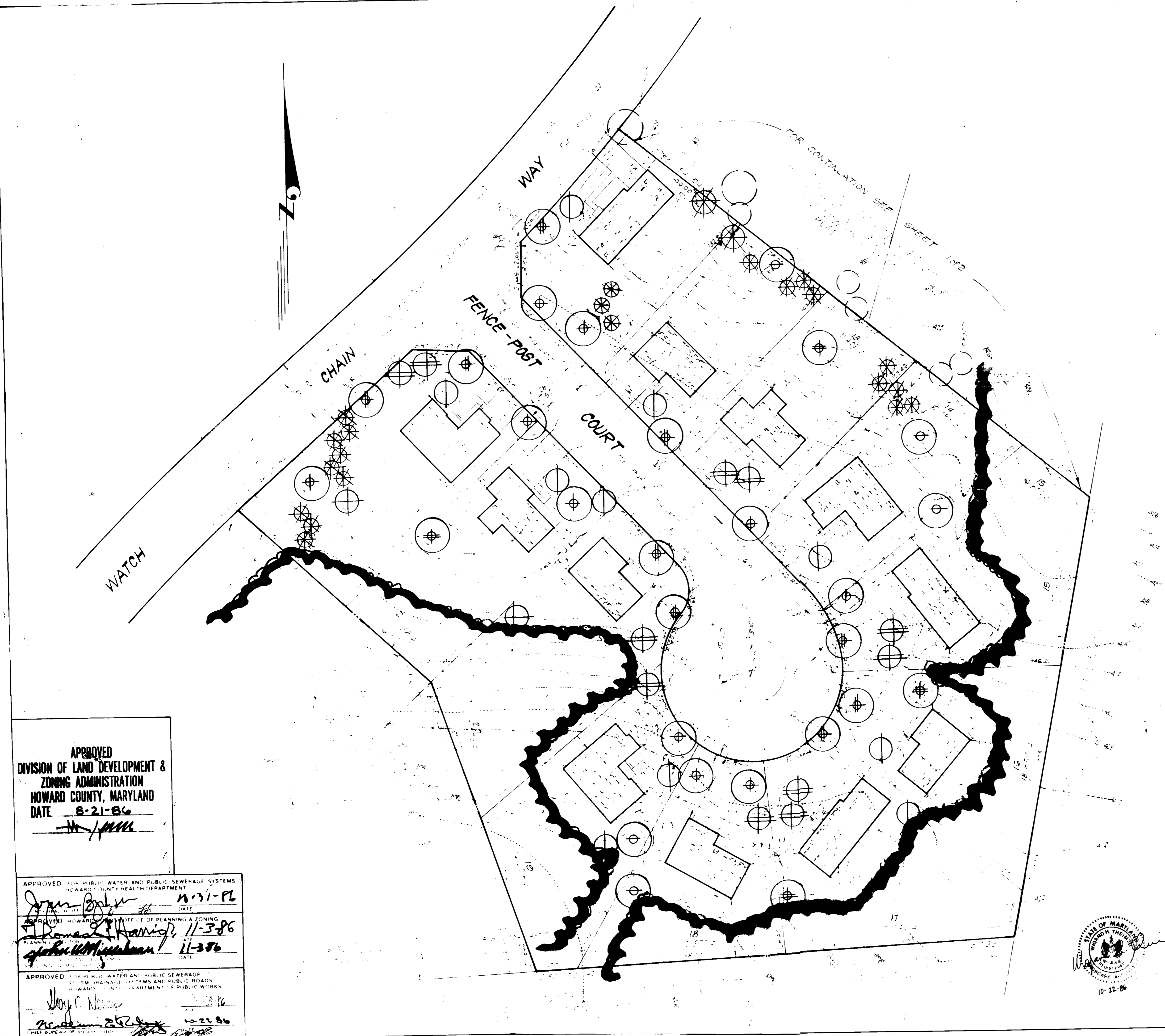


CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS		(301) 888-8488
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904		
DESIGNED HBN	LANDSCAPE PLANTING PLAN LOTS 2 THRU 22 COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 12 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN HBN		DRAWING 6 of 7
CHECKED WHT		JOB NO. 86-037
DATE 7-14-85		FILE NO. 86-037LS
FOR THE RYLAND GROUP INC 7130 Minstrel Way #215 Columbia MD 21045		

SDP-87-190

PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUANT	REMARKS
⊕	ACEP RUBRUM 'RED SUNSET' RED SUNSET MAPLE	2 1/2" CAL 12-14' HT.	18	B & B HEAVY HEADS
⊕	ACEP SACCHARUM 'GP. MT.' GREEN MOUNTAIN SUGAR MAPLE		15	
⊕	QUERCUS PALUSTRIS PIN OAK		15	
⊕	QUERCUS RUBRA NORTHERN RED OAK		13	
⊕	PRUNUS SEROTINA 'KWANZAN' KWANZA CHERRY	2-2 1/2" CAL 8-10' HT.	14	
⊕	MALUS SNOWCLOUD SNOWCLOUD CRABAPPLE		15	
⊕	MALUS PINK PERFECTION PINK PERFECTION CRAB		19	
⊕	CRATAEGUS PHAENOPYRUM WASHINGTON HAWTHORN		17	
⊕	PINUS STROBLIS EASTERN WHITE PINE	6-8' HT.	41	B & B HEAVY



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 8-21-86
[Signature]

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE 11-31-86
[Signature]

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 11-3-86
[Signature]

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 10-21-86
[Signature]

NOTE:
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
 - ALL PLANTING SHALL COMPLY WITH COLUMBIA H.P.D. PLANTING SPECIFICATIONS.
 - SUBSTITUTIONS MAY BE PERMITTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT (593-3400).

8-20-86 REVISION: AS PER HRD COMMENTS

CLARK • FINEPROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LUXWORTH DRIVE SILVER SPRING, MARYLAND 20904

LANDSCAPE PLANTING PLAN
LOTS 2 THRU 22
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 12
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DESIGNED: MBH
DRAWN: MBH
CHECKED: WHT
DATE: 7-19-86

POP: THE PYLAND GROUP, INC.
7130 MINSTREL WAY #215
COLUMBIA, MD. 21045

SCALE: 1"=30'
DRAWING: 7 OF 7
JOB NO: 86-037
FILE NO: 86-03763

