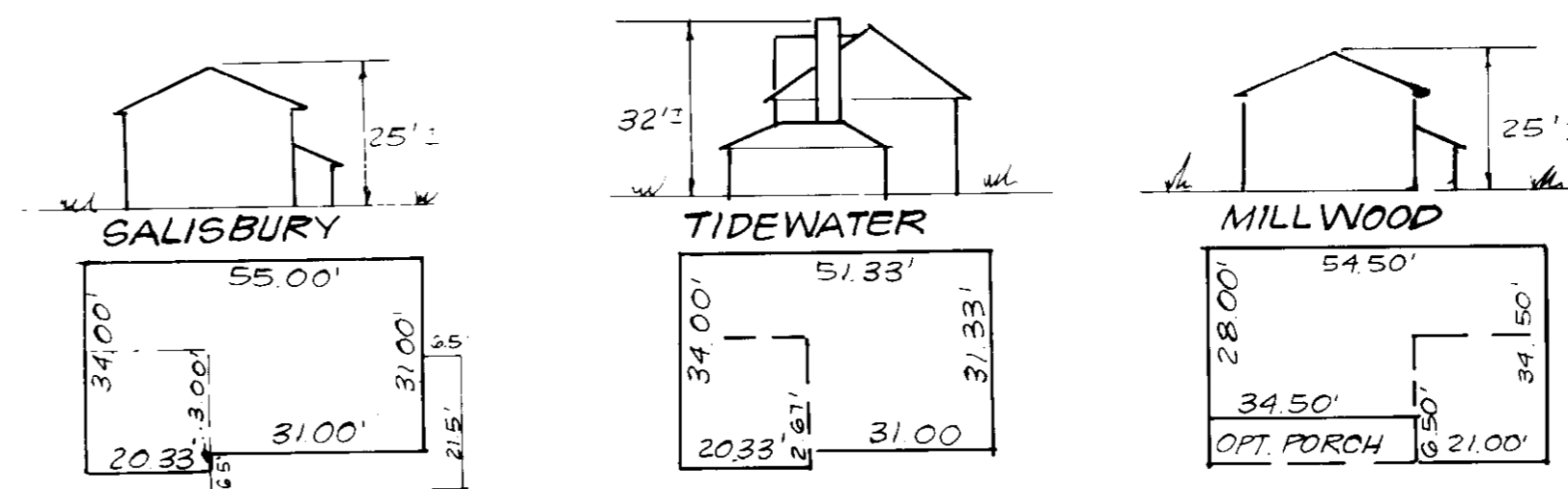
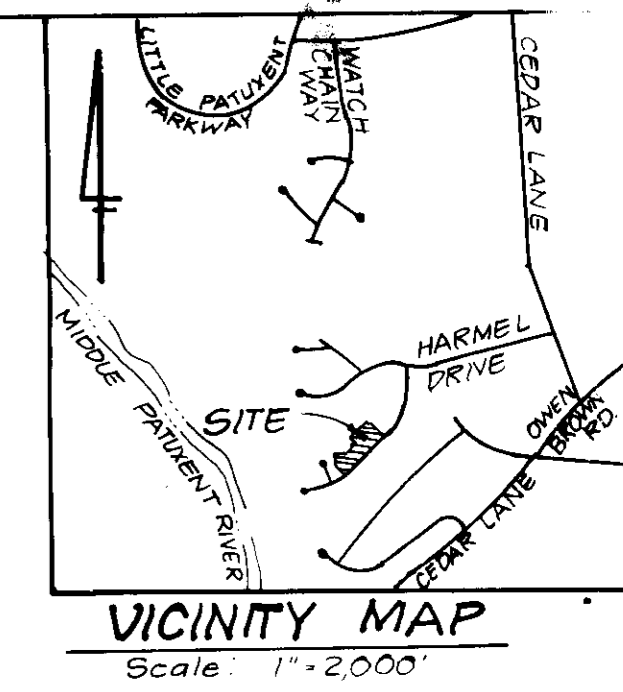


DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK



TYPICAL HOUSES
Scale 1" = 30'



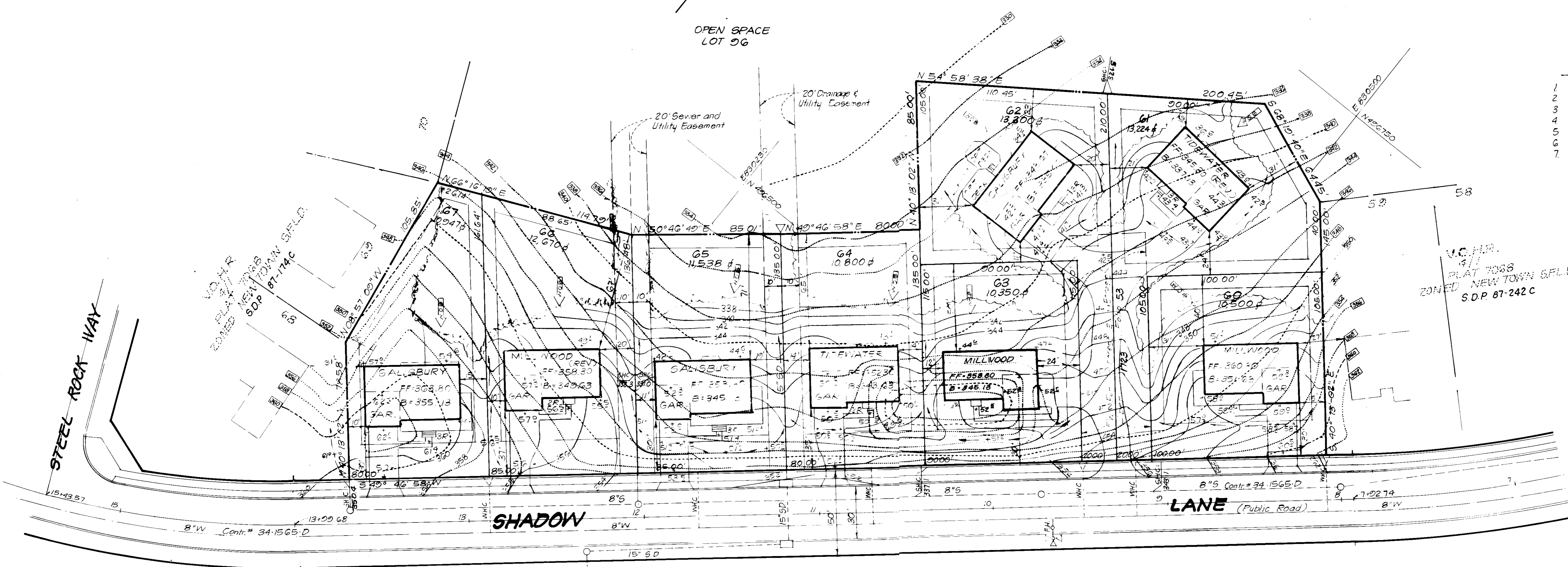
GENERAL NOTES:

- 1 The land included is zoned New Town S.F.M.D.
- 2 Coordinates are based upon the Maryland State Plane Coordinate System, reference Howard County Control Points 2630002 & 2630003.
- 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 2.143 Acres.
- 6 Total Number of Lots: 8
- 7 S.W.M. for this site provided in central facility located in
- 8 Reference Final Development Plan Phase 181 Part VII.

LEGEND:

- 1 Contour Interval 2 ft
- 2 Existing Contour 40'
- 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
G0	10942	SHADOW LANE
G1	10944	"
G2	10946	"
G3	10948	"
G4	10950	"
G5	10952	"
G6	10954	"
G7	10956	"



U.C.M.P.
PLAT 7068
ZONED NEW TOWN S.F.L.D.
S.D.P. 87-242 C

VILLAGE OF HICKORY RIDGE
SECTION 4 AREA 1
PLAT 7068
ZONED NEW TOWN S.F.L.D.

SUBDIVISION NAME	COLUMBIA	BECT./AREA	4/1	LOTS	G0 - G7
VILLAGE OF HICKORY RIDGE					
PLAT #	7068	BLOCK #	17	ZONE	BFLD
		TAX ZONE	35	MAP	5 1/2"
		ELEC DIST	10	CENSUS TR	6058.01
WATER CODE	E 27	SEWER CODE			650000

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Snyder 10-7-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
William J. Hill 10-13-87
PLANNING DIRECTOR DATE

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
William J. Hill 7-8-87
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert J. Jones 10-2-87
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
Robert J. Jones 10-2-87
DATE

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

DESIGNED: CMS
DRAWN: VHL
CHECKED: JME
DATE: 6-8-87

SITE DEVELOPMENT PLAN
LOTS G0 THRU G7
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 4 AREA 1
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: NU-HOMES INC
2050 Route 108 Suite 221
Columbia, MD 21043

SCALE: 1" = 30'
DRAWING: 1 of 2
JOB NO: 87-022
FILE NO: 87-022-X

SDP-87-245 C

- 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. (995-2437)
- 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 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.
- 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) and (Sec. 52), temporary seedings (Sec. 50) and mulching (Sec. 51). Temporary stabilization with mulch alone can only be done when recommended seedling 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 active condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area of Site	2.143 Acres
Area Disturbed	1.100 Acres
Area to be roofed or paved	0.500 Acres
Area to be vegetatively stabilized	1.200 Acres
Total Cur.	1004 Cu. yds
Total Fill	523 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 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 "A-B" soils, at random, Single Lot Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below). N/A
- The total amount of straw bale dikes/silt fence equals 2936 L.F.

Apply to graded or cleared areas not subject to immediate further disturbance a permanent long-lived vegetative cover if needed.

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

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 100 lbs per acre 30-0-0 urea-form 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 90 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 90 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.9 lbs/1000 sq ft) of seeding 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 seed. Option (3) Seed with 80 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 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 368 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.

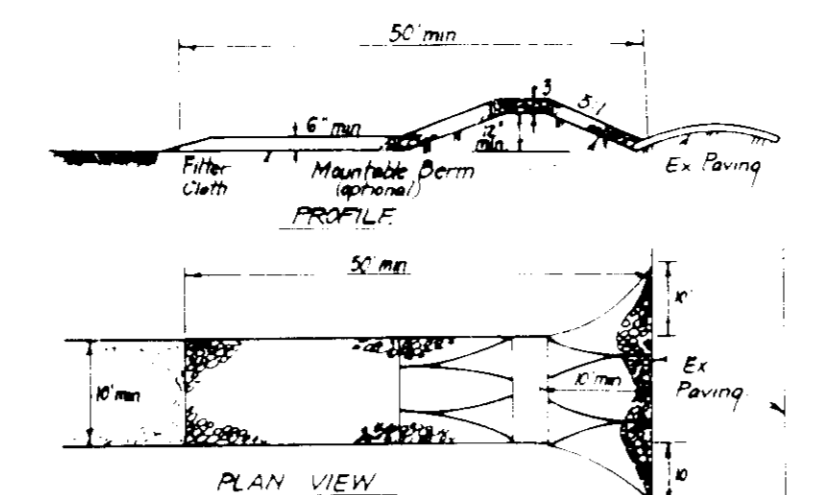
Seeding Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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

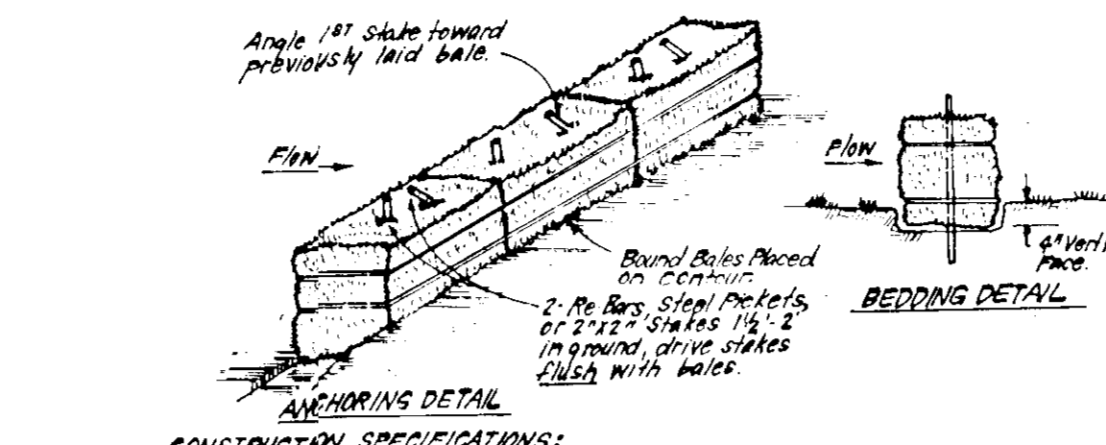
Seeding - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of seeding lovegrass (0.9 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use seed.

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 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 368 gal per acre (8 gal/1000 sq ft) for anchoring.

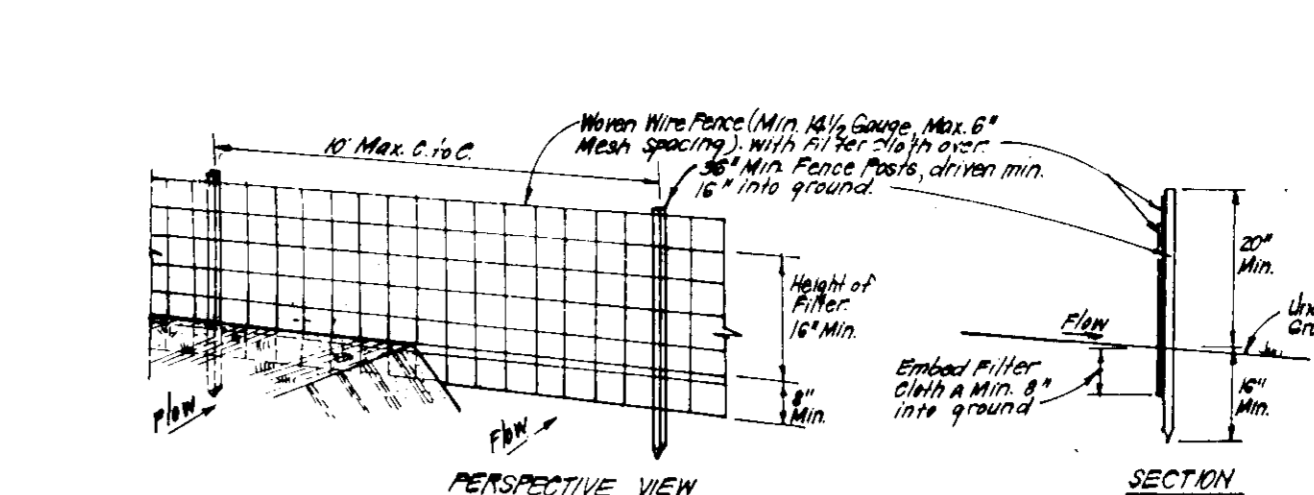
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



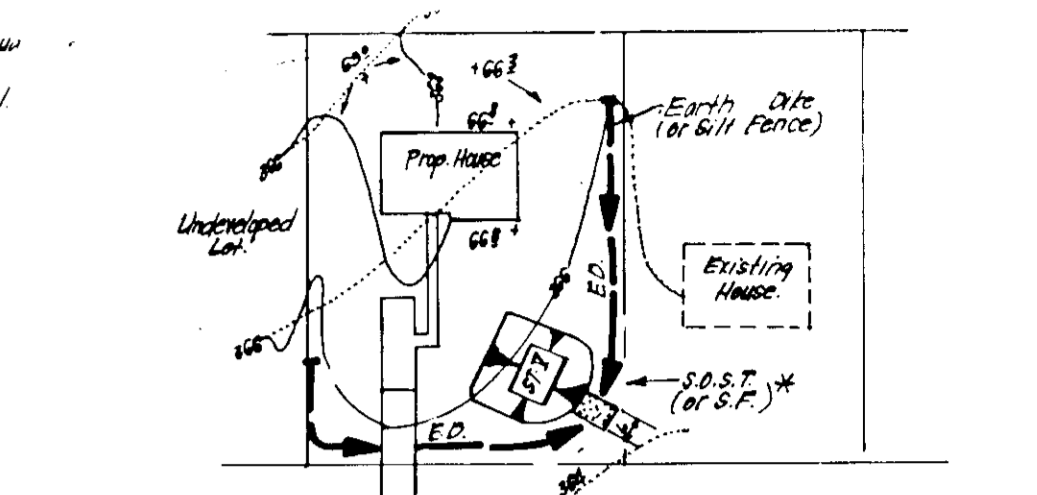
- CONSTRUCTION SPECIFICATIONS:**
- Stone size: Use 2" stone or equivalent if required concrete equivalent.
 - Length: As required, but not less than 10' (except a single residence lot where a 20' length minimum length is required).
 - Thickness: Not less than 6" inches.
 - Width: Ten (10') feet minimum, but not less than the full width at points where changes or curves occur.
 - Filter Cloth: No. 20 woven mesh polypropylene or equivalent.
 - Surface Water: All surface water should be directed toward construction entrance shall be kept across the entrance. If work is in progress, a manhole shall be provided.
 - Maintenance: The entrance shall be maintained in a condition which will prevent freezing or blocking of the entrance. If work is in progress, a manhole shall be provided. If the entrance is to be used for a long period, it shall be maintained in a condition which will prevent freezing or blocking of the entrance. If work is in progress, a manhole shall be provided.



- CONSTRUCTION SPECIFICATIONS:**
- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
 - Bales shall be securely anchored in place by either 2 stakes or rebar 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.



- CONSTRUCTION SPECIFICATIONS:**
- When wire posts in an enclosure to fence posts with wire ties or staples.
 - Filter cloth to be fastened securely to woven wire fence with ties spaced every 36" in top and mid sections.
 - When 2 sections of filter cloth join each other they shall be overlapped by 6" and stapled.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in silt fence.



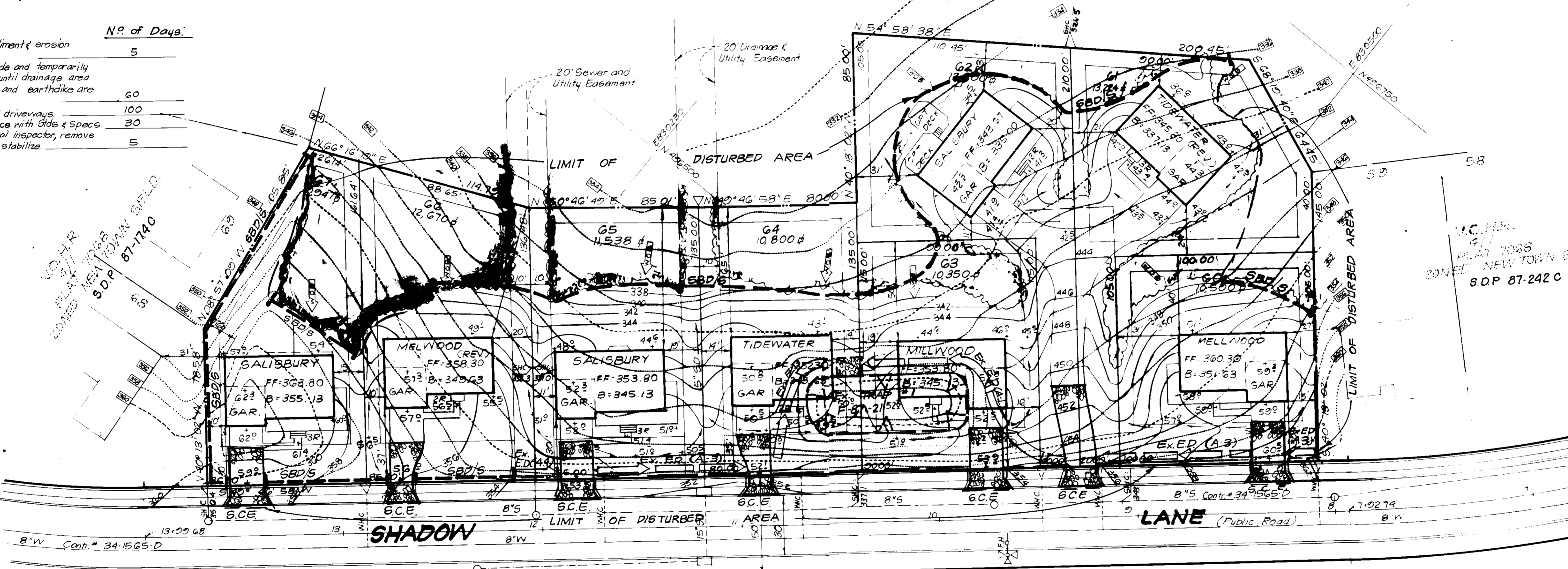
SINGLE LOT SEDIMENT CONTROL PLAN

* 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.

NO.	DESCRIPTION	SCALE
1	Contour Interval	2 ft
2	Existing Contour	4:0
3	Proposed Contour	4:0
4	Spot Elevation	+10.5
5	Direction of Drainage	
6	Walking Trees to be Saved	
7	Walk Out Basement	
8	Straw Bale Dike/Silt Fence	
9	Stabilized Construction Entrance	
10	Ex. Earth Dike	

CONSTRUCTION SEQUENCE:

No.	Description	No. of Days
1	Obtain grading permit and install sediment & erosion control devices and stabilize.	5
2	Excavate for foundations, rough grade and temporarily stabilize. Delay work on lots G2 & G3 until drainage area to Ex. Trap #1 is stabilized and trap and earthdike are removed.	100
3	Construct structures, sidewalks and driveways.	60
4	Final grade and stabilize in accordance with S.D.P. Specs.	30
5	Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	5



LEGEND:

- Contour Interval 2 ft
- Existing Contour 4:0
- Proposed Contour 4:0
- Spot Elevation +10.5
- Direction of Drainage
- Walking Trees to be Saved
- Walk Out Basement
- Straw Bale Dike/Silt Fence
- Stabilized Construction Entrance
- Ex. Earth Dike

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
10-7-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 10-12-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 10-2-87

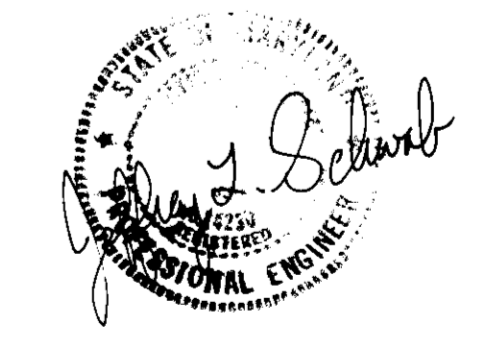
Reviewed for HOWARD S.C.D. Name and meets Technical Requirements
Signature: [Signature]
Date: 9-30-87
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved: [Signature] Date: [Date]

VILLAGE OF HICKORY RIDGE SECTION 4 AREA 1 TOSR ZONED NEW TOWN S.F.L.D.

DEVELOPER'S/BUILDER'S CERTIFICATE
I hereby certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
Signature: [Signature] Date: 6/8/87

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.
Signature: [Signature] Date: 6/8/87



SUBDIVISION NAME	COLUMBIA VILLAGE OF HICKORY RIDGE	SECT. AREA	4.11	LOTS	60-67
PLAT #	7068	BLOCK #	17	ZONE	5TH
TAXIDISTRICT	MAPLELEC DISTRICT	BLK. NO.	35	BLK. NO.	6058.01
WATER CODE	E-27	SEWER CODE	G500000		

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

DESIGNED: CMS, DGT
DRAWN: VHL
CHECKED: JME, JLS
DATE: 6-8-87

SEDIMENT & EROSION CONTROL PLAN
LOTS GO THRU G7
COLUMBIA VILLAGE OF HICKORY RIDGE
SECTION 4 AREA 1
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: NU HOMES INC
8950 Route 108 Suite 221
Columbia, MD 21043

SCALE: 1"=30'
DRAWING: 2 of 2
JOB NO: 87-022
FILE NO: 87-0225E

SDP-87-245 C