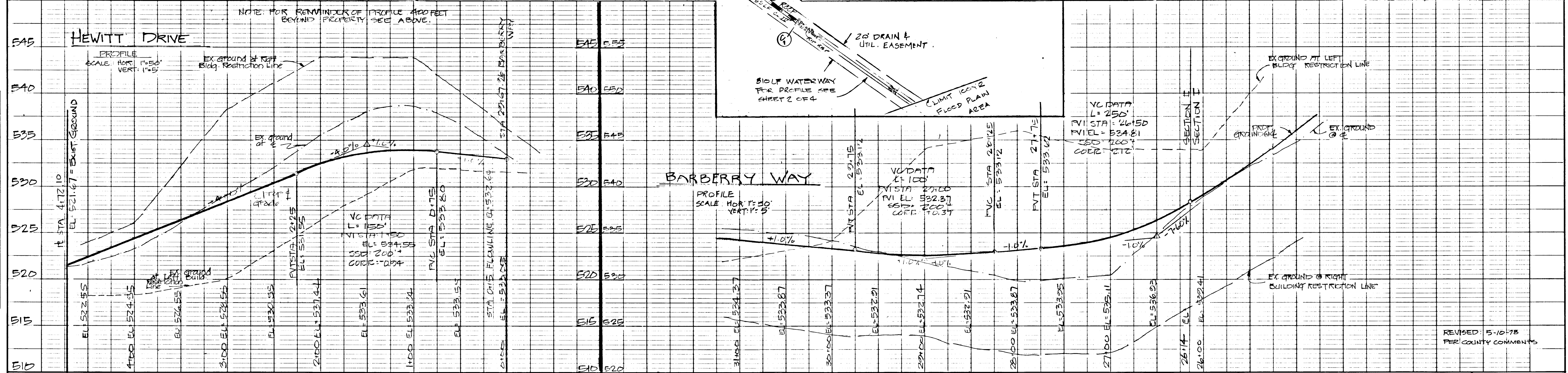
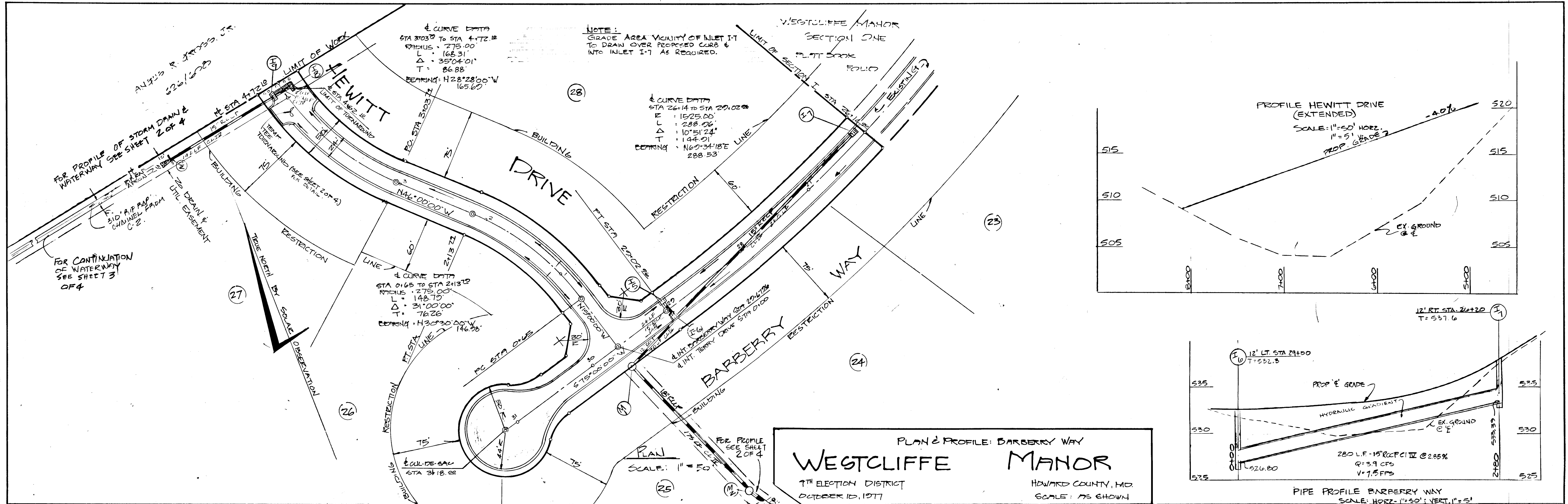


DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_ ALTIMETER CHECKED: \_\_\_\_\_  
 No. \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_ GRADE CHECKED: \_\_\_\_\_  
 No. \_\_\_\_\_



APPROVED: Department of Public Works

APPROVED: Office of Planning & Zoning

**LEON A. PODOLAK AND ASSOCIATES**  
 SURVEYING AND CIVIL ENGINEERING  
 63 EAST MAIN ST. WESTMINSTER, MD. 21157 - 848-2229  
 (P.O. BOX 266) 876-1226

OWNER / DEVELOPER  
 MARGARET A. & GORDON E. JENKINS  
 804 MORELOCK SCHOOLHOUSE ROAD  
 WESTMINSTER, MD. 21157

DESIGNED BY: R.M.  
 PRINTED BY: E.D.  
 CHECKED BY: G.R.C.

Sheet 1 of 4

DATE BY  
 CHECKED BY  
 NO.

**DEVELOPER'S CERTIFICATE**  
 I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.  
 Margaret Jenkins 3/31/78

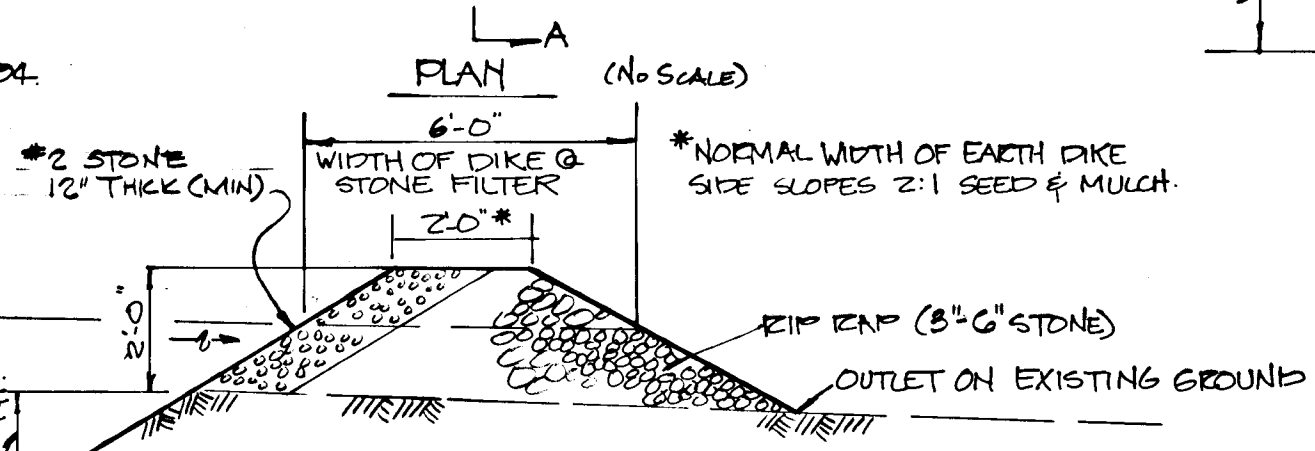
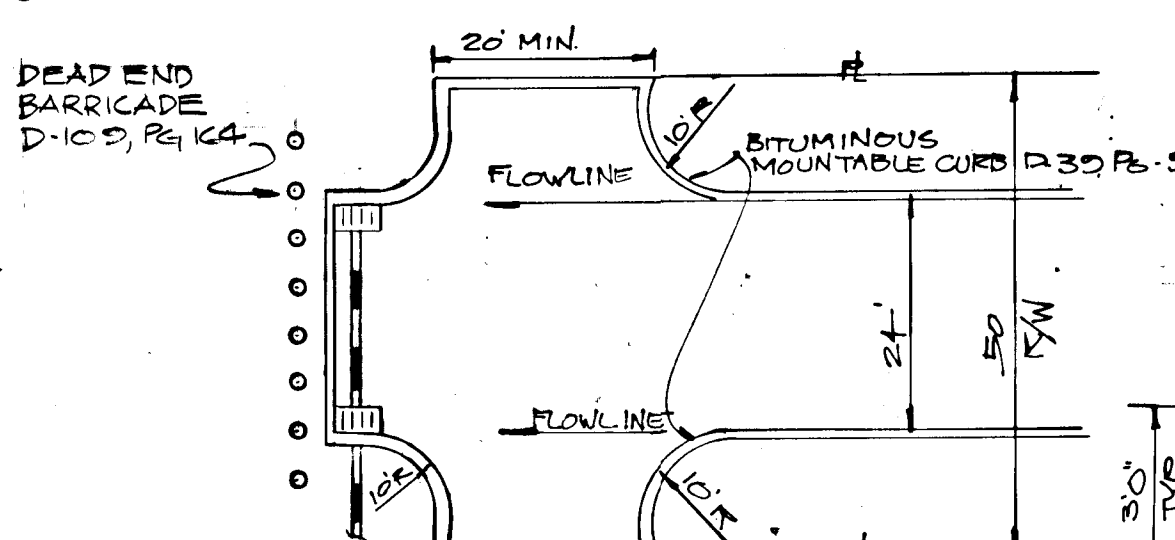
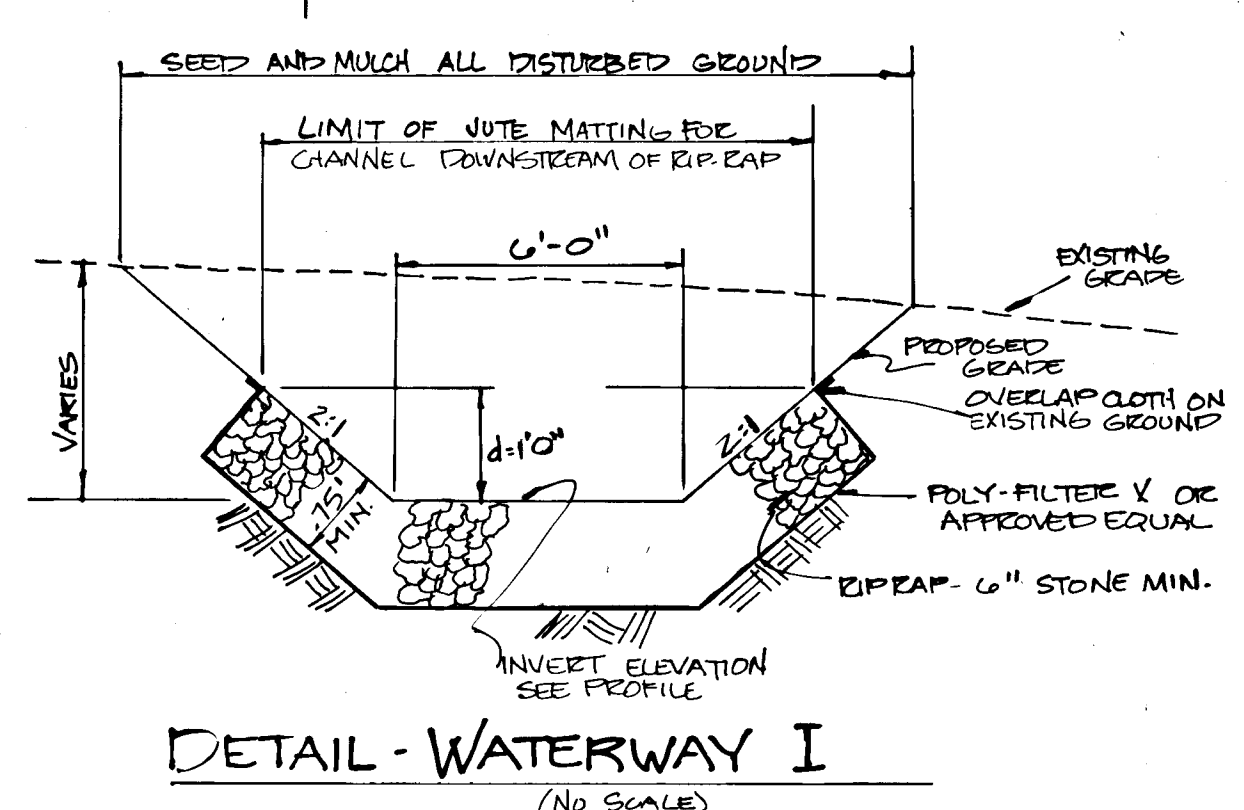
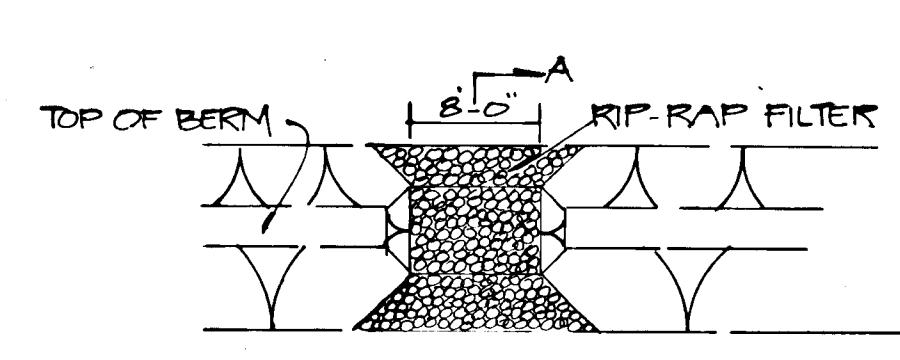
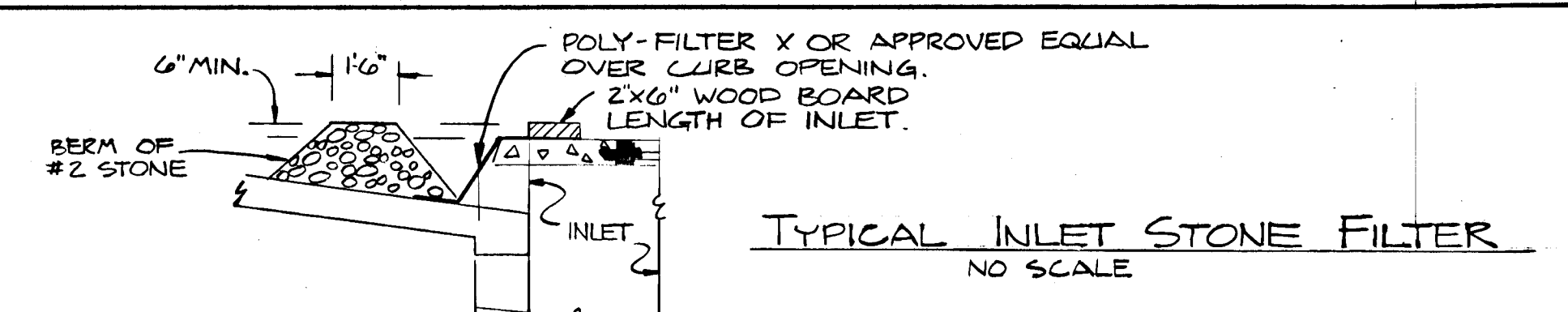
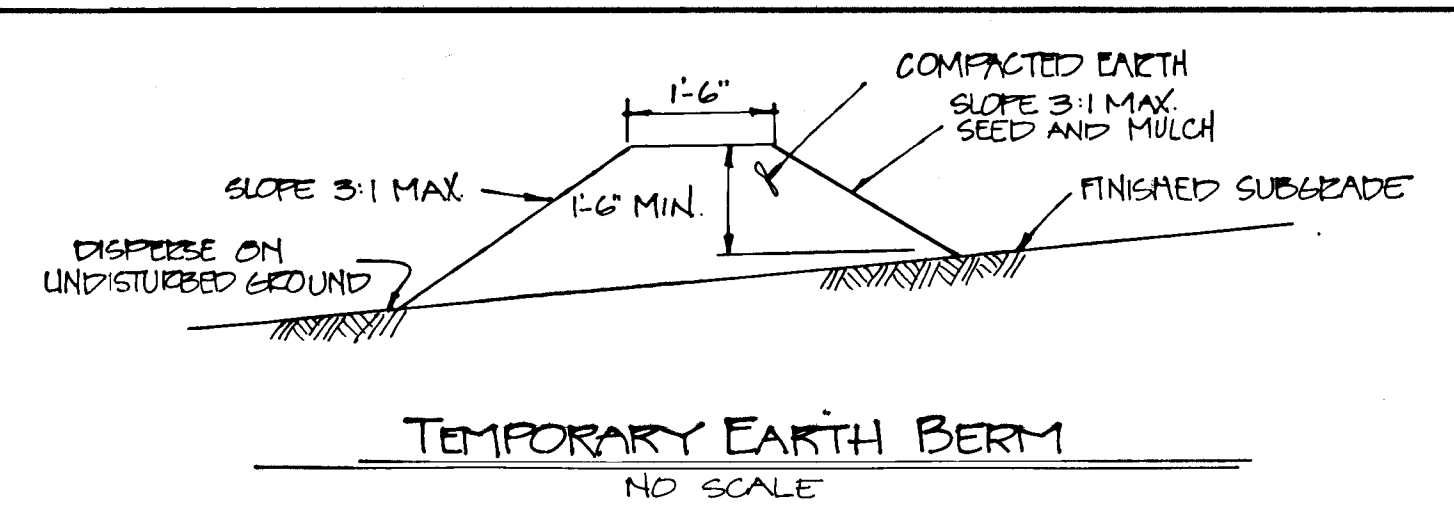
**ENGINEER'S CERTIFICATE**  
 I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Leon A. Podolak 3.31.78  
 Signature of Engineer Date

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
 Wayne Ray 6-13-78  
 District Coordinator Date

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
 APPROVED: Wes Eard 6-13-78  
 District Coordinator Date  
 Howard Soil Conservation District

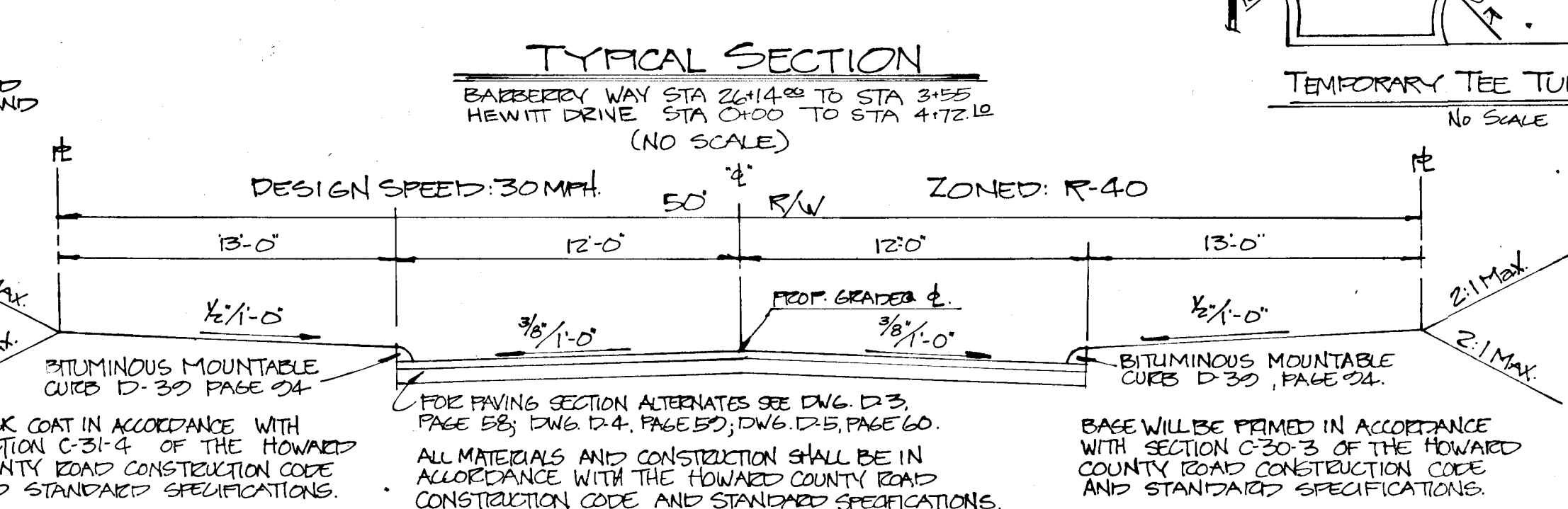
**SEDIMENT CONTROL NOTES**

- THE DEVELOPER SHALL NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTIONS & PERMITS AT LEAST 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON. (992-2436)
- BERMS, SEDIMENT TRAPS, ETC., TO BE CONSTRUCTED PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE TO ANY EXISTING SURFACE MATERIAL, AND ARE TO BE STABILIZED AS SOON AS CONSTRUCTED.
- ALL SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY DEPT. OF INSPECTIONS & PERMITS (992-2436)
- ALL GRADED AREAS NOT TO BE SEEDDED SHALL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FOLLOWING:
  - SITE PREPARATION:
    - HARROW OR DISC IN AREAS PROPOSED TO BE SEEDDED THE FOLLOWING MATERIALS AT THE SPECIFIED RATE, TO A DEPTH OF 3":
      - PULVERIZED LIMESTONE AT 1 1/2 TONS/ACRE.
      - COMMERCIAL FERTILIZER 5-10-10 AT 3/4 TONS/ACRE.
      - SUPER PHOSPHATE AT 600 LBS/ACRE.
    - SEEDING:
      - SOW THE FOLLOWING SEED MIXTURE AT THE RATE OF 200 LBS./ACRE. WITH A MECHANICAL SPREADER.
        - 20% ANNUAL RYE GRASS
        - 80% KENTUCKY 31 FESCUE
      - THE SEEDING AREA SHALL THEN BE RAKED WITH A YORK RAKE (A MINIMUM OF TWO PASSES), COVERED AND CONTACTED WITH "OUTLIFTER" OR OTHER APPROVED METHOD.
    - MULCHING:
      - SEEDING AREAS SHALL BE UNIFORMLY MULCHED IMMEDIATELY AFTER SEEDING WITH UNDERWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1/2 TONS TO 2 TONS/ACRE.
      - THE MULCH DOWN WITH LIQUID ASPHALT AT 0.1 GAL/SY OR EMULSIFIED ASPHALT AT 0.04 GAL/SY OR MULCH RETTING.
- SEDIMENT AND EROSION CONTROL REQUIREMENTS SHOWN HEREON ARE FOR EARTH AND STORM DRAIN CONSTRUCTION ONLY. FURTHER DEVELOPMENT OF INDIVIDUAL LOTS ARE SUBJECT TO ADDITIONAL SEDIMENT AND EROSION CONTROL REQUIREMENTS, IF AND AS DIRECTED BY THE HOWARD SOIL CONSERVATION DISTRICT.



- CONSTRUCTION SEQUENCE**
- PLACE EARTH DIKES AND STONE FILTERS AS INDICATED ON THE SEDIMENT & EROSION CONTROL PLAN. SEED AND MULCH DISTURBED AREAS.
  - PLACE ROADS TO SUBGRADE.
  - CONSTRUCT STORM DRAIN SYSTEMS.
  - PLACE ROAD BASE AND SURFACE COURSES, CURBS, BRING ROAD SLOPES TO FINISHED GRADE, SEED AND MULCH IN ACCORDANCE WITH SEDIMENT CONTROL NOTE #4.
  - REMOVE EARTH DIKES AND STONE FILTERS AND STABILIZE DISTURBED AREAS.

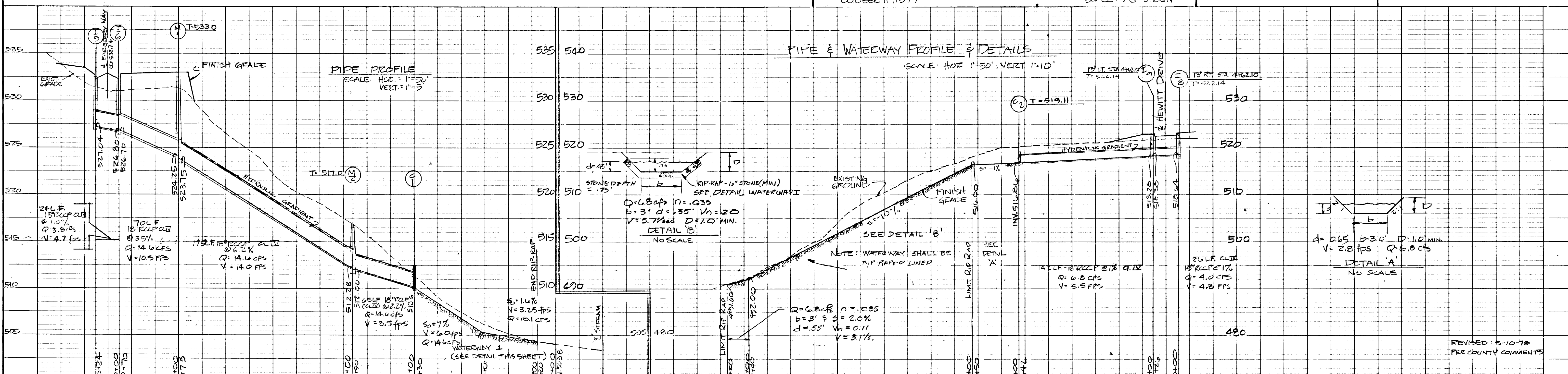
- GENERAL NOTES**
- ALL CONSTRUCTION SHOWN HEREON SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS DATED NOVEMBER 27, 1962, AND REVISED AUGUST 1967.
  - REFERENCE TO PAGE AND DRAWING NUMBERS SHOWN HEREON ARE REFERRED TO THE ABOVE MENTIONED ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
  - DESIGN SPEED - 30 MILES PER HOUR.
  - CONTRACTOR SHALL BLOCK OFF ANY UNFINISHED STORM DRAIN AT THE END OF EACH WORKING DAY.



**STORM DRAIN PROFILES & SEDIMENT CONTROL DETAILS**  
**WESTCLIFFE MANOR**  
 4TH ELECTION DISTRICT  
 OCTOBER 11, 1977  
 HOWARD COUNTY, MD  
 SCALE: AS SHOWN

**SITE ANALYSIS**

1. TOTAL AREA	= 36.84 Ac±
2. AREA TO BE GRADED	= 1.23 Ac±
3. AREA TO BE PAVED	= 0.61 Ac±
4. AREA TO BE REVEGETATED	= 0.62 Ac±
5. UNDISTURBED AREA	= 35.61 Ac±



APPROVED: DEPARTMENT OF PUBLIC WORKS  
 W. F. Libert 6-21-78  
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING & ZONING  
 John W. Mueselmann 6-19-78  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

**LEON A. PODOLAK AND ASSOCIATES**  
 SURVEYING AND CIVIL ENGINEERING  
 63 EAST MAIN ST. WESTMINSTER, MD. 21157 848-2229  
 W.P.O. BOX 2661 876-1226

Leon A. Podolak 3.31.78  
 DATE

**OWNER & DEVELOPER**  
 MARGARET A. & GORDON E. JENKINS  
 504 MORELOCK SCHOOL  
 HOUSE ROAD  
 WESTMINSTER, MD.  
 21157

DESIGNED BY: K.J.  
 DRAFTED BY: bed.  
 CHECKED BY: gfc  
 SHEET: 2 OF 4

Lot Number	Average Percolation Time in Minutes for Second Inch	Maximum depth permitted for effluent pipe to enter sewage disposal area with reference to existing ground at time of percolation test
19	2.0	3.0'
20	7.0	3.0'
21	Non-Buildable	
22	Non-Buildable	
23	6.0	4.0'
24	14.0	3.5'
25	5.0	3.0'
26	3.0	3.5'
27	5.0	4.0'
28	6.0	3.0'

Coordinate Table	
No	North East
1	2702.60 3423.71
2	2253.89 3612.66
3	2271.20 3742.44
4	3126.30 3371.13
5	3426.98 3520.21
6	3034.03 3212.21
7	4086.20 4052.04
8	4350.20 3742.07
9	4223.11 3621.00
10	4223.83 3440.30
11	4232.70 3307.72
12	4226.44 3223.13
13	4321.28 3215.75
14	4342.26 3133.26
15	4223.07 3052.58
16	3814.48 2973.25
17	2286.09 2728.71
18	2663.92 2730.92
19	2371.40 3023.40

APPROVED: For individual water and sewage systems ORIGINAL SIGNED BY HEALTH OFFICER, Health County Health Officer, Date Conversion Table

Lot No.	Original Lot No.	Conversion
19	10, 11, 13	13
20	14, 15	14
21	16, 17	16
22	18, 19	18
23	20, 21	20
24	22, 23	22
25	24, 25	24
26	26, 27	26
27	28, 29	28
28	30, 31	30

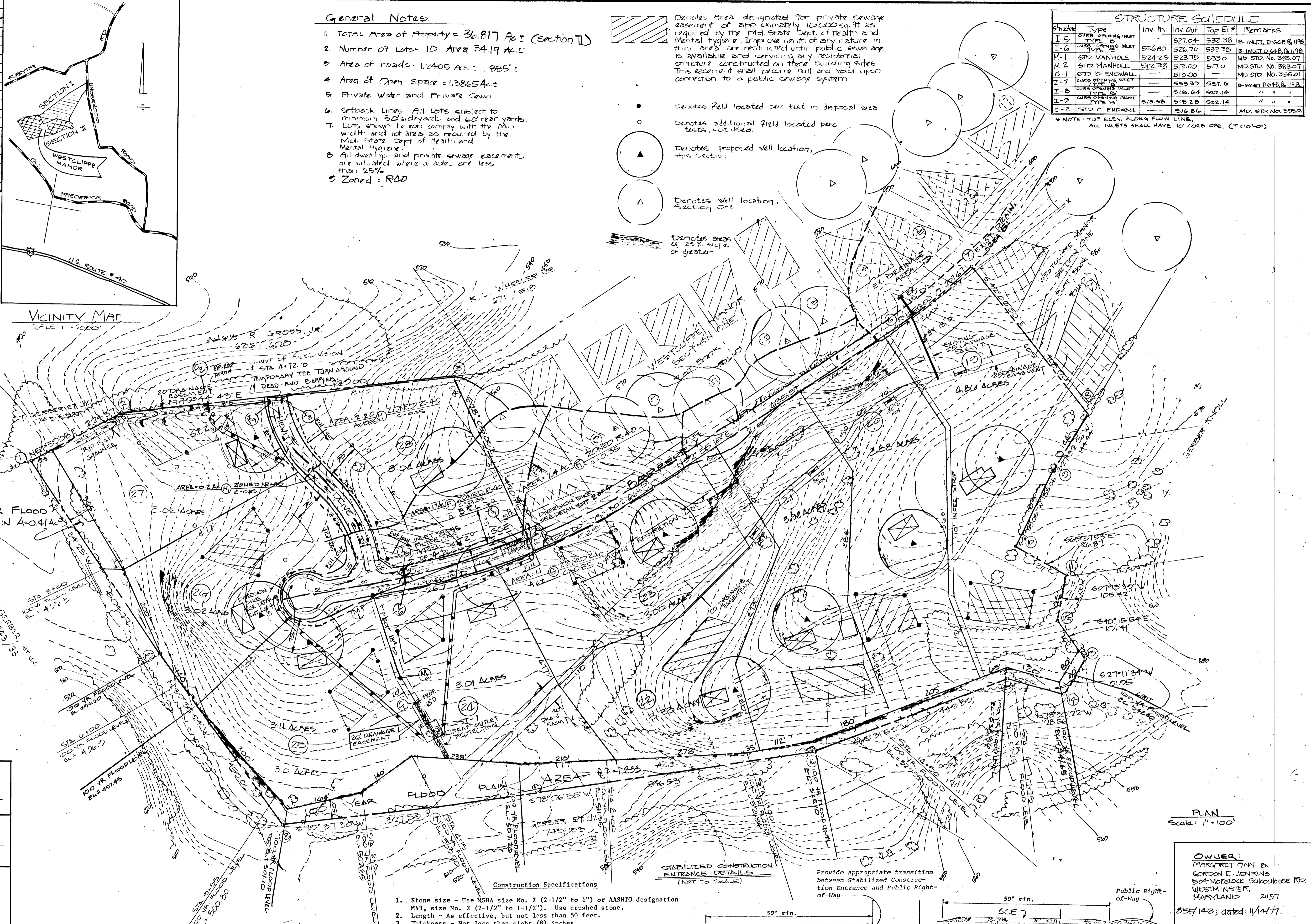
Note: The origin of the coordinates shown herein is assumed.

\* Non-buildable until approved by health department.

- General Notes:**
- Total Area of Property = 36.817 Ac. (Section II)
  - Number of Lots = 10 Area 34.19 Ac.
  - Area of roads = 1.2405 Ac. ±, 885'
  - Area of Open Space = 1.3865 Ac. ±
  - Private Water and Private Sewer
  - Setback Lines: All Lots subject to minimum 30' side yards and 60' rear yards. Lots shown vacant comply with the Min. width and lot area as required by the Md. State Dept. of Health and Mental Hygiene.
  - All dwelling and private sewage easements are situated where width are less than 25%.
  - Zoned = R4D

STRUCTURE SCHEDULE					
Structure	Type	Inch In	Inch Out	Top El. #	Remarks
I-5	CURB OPENING INLET	—	527.04	532.38	B-INLET, D-648 & 1198
II-6	CURB OPENING INLET	526.80	526.70	532.38	B-INLET, D-648 & 1198
II-1	STD. MANHOLE	524.25	523.75	533.0	MD STD. NO. 385.07
II-2	STD. MANHOLE	512.28	512.00	517.0	MD STD. NO. 385.07
C-1	STD. C' ENDWALL	—	510.00	—	MD STD. NO. 385.07
II-7	CURB OPENING INLET	—	533.37	537.6	B-INLET, D-648 & 1198
II-8	CURB OPENING INLET	—	518.64	522.14	" " " "
II-9	CURB OPENING INLET	518.38	518.28	522.14	" " " "
C-2	STD. C' ENDWALL	—	516.86	—	MD STD. NO. 385.07

\* NOTE: TOP ELEV. ALONG FLOW LINE. ALL INLETS SHALL HAVE 10' CURB ORG. (C=10'-0")



APPROVED: DEPARTMENT OF PUBLIC WORKS:  
*W.O. Fallick* 6-21-78  
 CHIEF, BUREAU OF ENGINEERING DATE

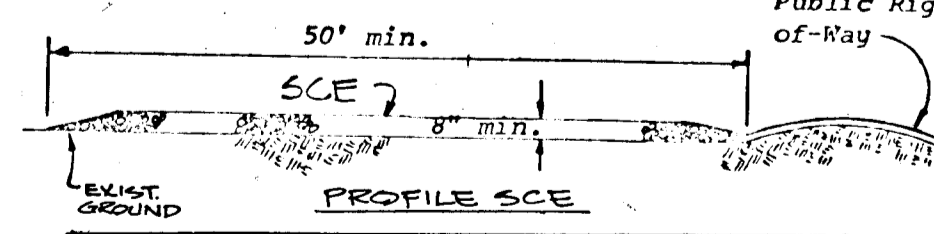
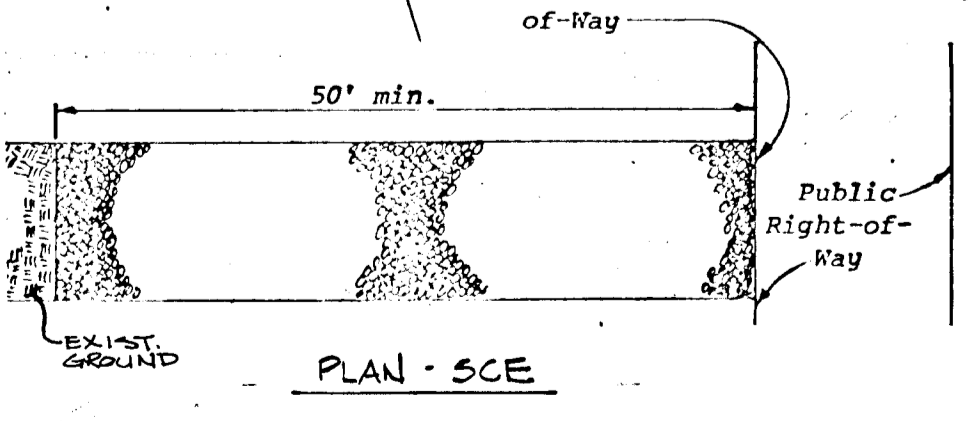
APPROVED: OFFICE OF PLANNING AND ZONING:  
*John W. Mullan* 6-19-78  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*S. Wayne Kay* 6-13-78  
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 APPROVED: *W.S. Ford* 6-13-78  
 DISTRICT ENGINEER FROM DATE  
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

SEDIMENT TRAP DATA						
No.	TOTAL DRAIN AREA (AC)	DISTURBED AREA (AC)	VOLUME RECEIVED	VOLUME PROVIDED	CLEAN OUT ELEV. (±1.5)	D W L
1	2.1	0.80	145	145	505.0	30 35 40'
2	1.5	0.43	105	105	514.5	30 30 35'
3						
4						

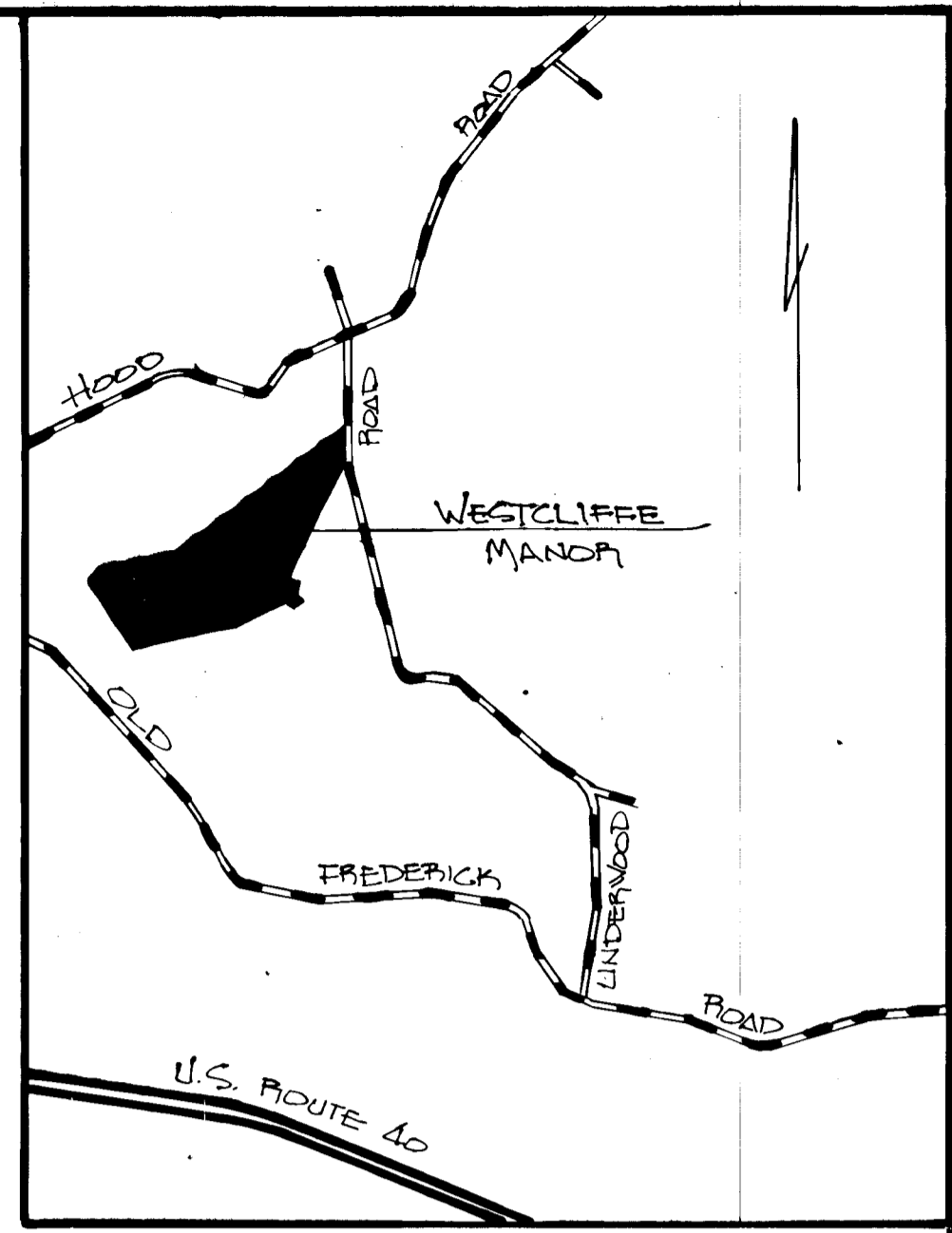
- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
  - Length - As effective, but not less than 50 feet.
  - Thickness - Not less than eight (8) inches.
  - Width - Not less than full width of all points of ingress or egress.
  - Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods. 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.



DRAINAGE AREA MAP & SEDIMENT CONTROL PLAN OF WESTCLIFFE MANOR SECTION TWO 4<sup>TH</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND. SCALE: 1"=100'. DATE: OCTOBER 25, 1977. TAX MAP #9 - PARCELS #54 & 55.

OWNER: MARGARET ANN B. GORDON E. JENKINS 504 NOBLECK SCHOOLHOUSE RD WESTMINSTER, MARYLAND 21157 855/143; dated: 1/14/77.

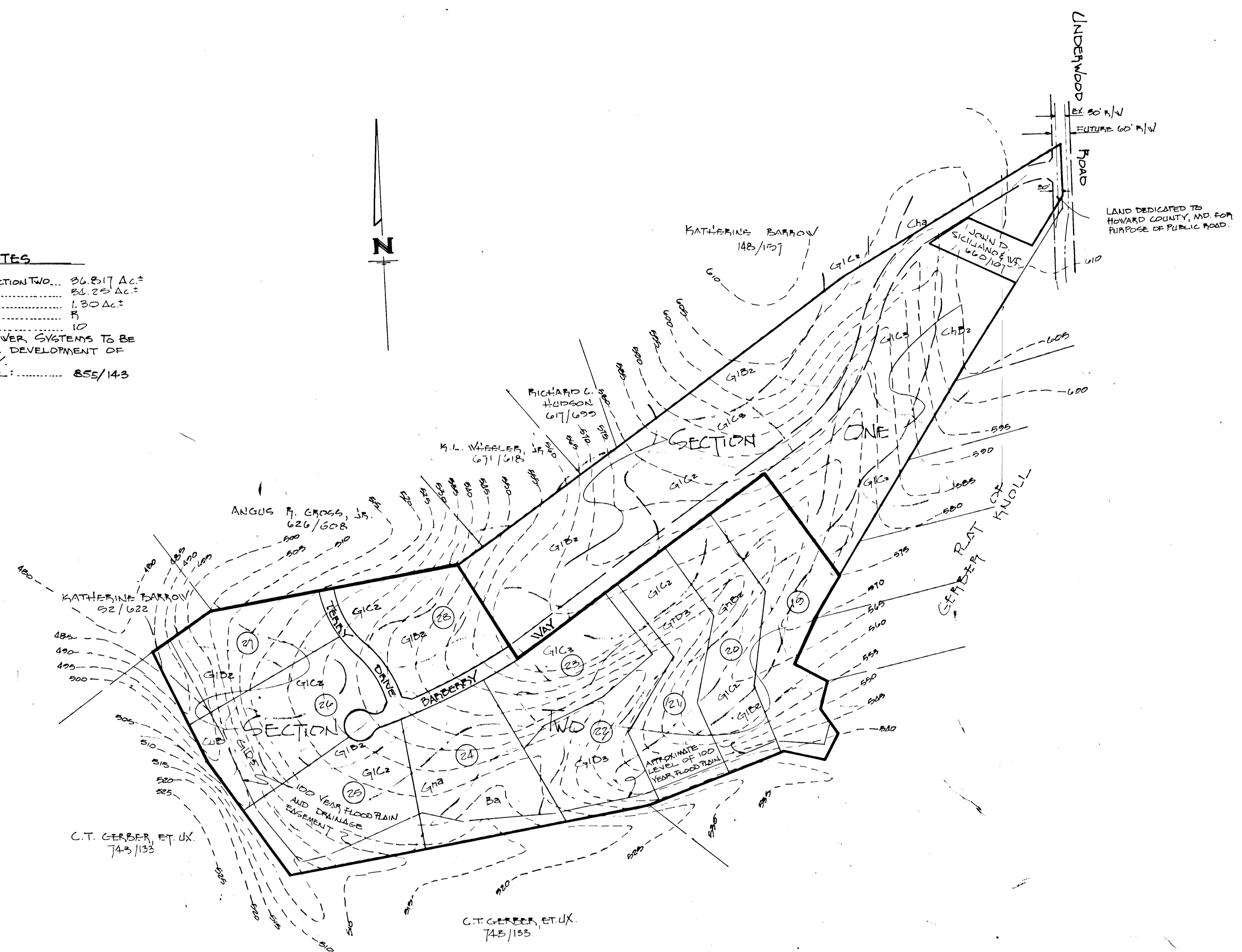
Leon A. Podolak and Associates Surveying and Civil Engineering 63 East Main Street Westminster, Md. 21157 (PO BOX 266) 848-2225/876-1226



LOCATION MAP  
SCALE: 1"=2000'

**GENERAL NOTES**

TOTAL AREA OF SECTION TWO... 36.817 Ac.<sup>±</sup>  
 AREA OF LOTS... 33.25 Ac.<sup>±</sup>  
 AREA OF ROADS... 1.30 Ac.<sup>±</sup>  
 PRESENT ZONING... R  
 NUMBER OF LOTS... 10  
 PRIVATE WATER & SEWER SYSTEMS TO BE UTILIZED IN THE DEVELOPMENT OF THIS PROPERTY.  
 TITLE REFERENCE: 855/143



**OWNER & DEVELOPER**  
 GORDON E. & MARGARET ANN JENKINS  
 504 MORELOCK SCHOOL HOUSE ROAD  
 WESTMINSTER, MD. 21157

SOILS MAP  
 of  
**WESTCLIFFE MANOR**

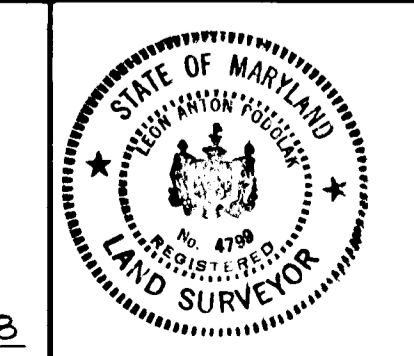
SECTION TWO  
 4<sup>th</sup> ELECTION DISTRICT HOWARD CO.  
 TAX MAP #0 PARCELS # 24 & 25  
 SCALE: 1"=200'  
 JANUARY 6, 1977

Approved: Department of Public Works

Approved: Office of Planning and Zoning

**LEON A. PODOLAK & ASSOCIATES**

SURVEYING & CIVIL ENGINEERING  
 48 EAST MAIN ST. WESTMINSTER, MD. 21157  
 P.O. BOX 266 21157  
 848-2225 876-1226



*Leon A. Podolak*  
 DATE: 3/31/78

DESIGNED BY:  
 DRAFTED BY:  
 CHECKED BY:  
 SHEET 4 of 4

*W. O. Libert*  
 CHIEF, BUREAU OF ENGINEERING  
 DATE: 6-21-78

*William W. Wickham*  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 6-19-78