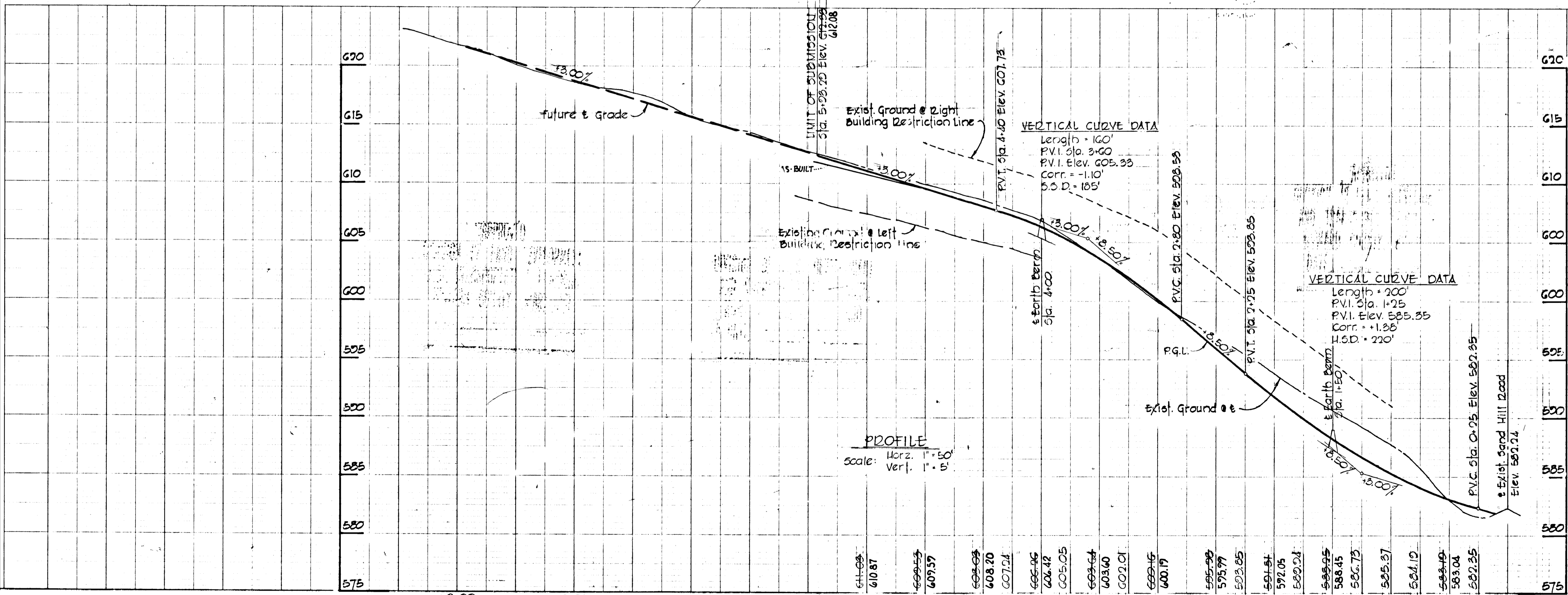


- SITE ANALYSIS**
- Total Area of Tract - 10.85 Ac.±
 - Disturbed Area - 0.68 Ac.±
 - Impervious Area - 0.33 Ac.±
 - Area to be Re-vegetated - 0.35 Ac.±
 - Area to be undisturbed - 10.17 Ac.±



APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 10/3/75
JRW

APPROVED: Department of Public Works
Chief, Bureau of Highways
Date 11/4/75

APPROVED: Office of Planning and Zoning
Chief, Division of Land Development and Transportation Planning
Date 10/1/75

PLAN AND PROFILE: METTEE ROAD

CREST ACRES
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
February 10, 1975
SCALE: As Shown

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202
301/837-0194

DESIGNED BY: C.A. Hamill
DRAFTED BY: D.A. Hamill
CHECKED BY: R.B. Carter
Sheet 1 of 3

OWNER AND DEVELOPER
BRADLEY T.J. METTEE, JR., ET. AL.
1906 Cedar Circle
Baltimore, Maryland

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 County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be permitted unless authorized by the Howard County Soil Conservation District.

Bradley T. J. Metee, Jr. 2-14-75
DATE

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 County Soil Conservation District.

Eric V. Herman 2-14-75
Signature of Engineer DATE

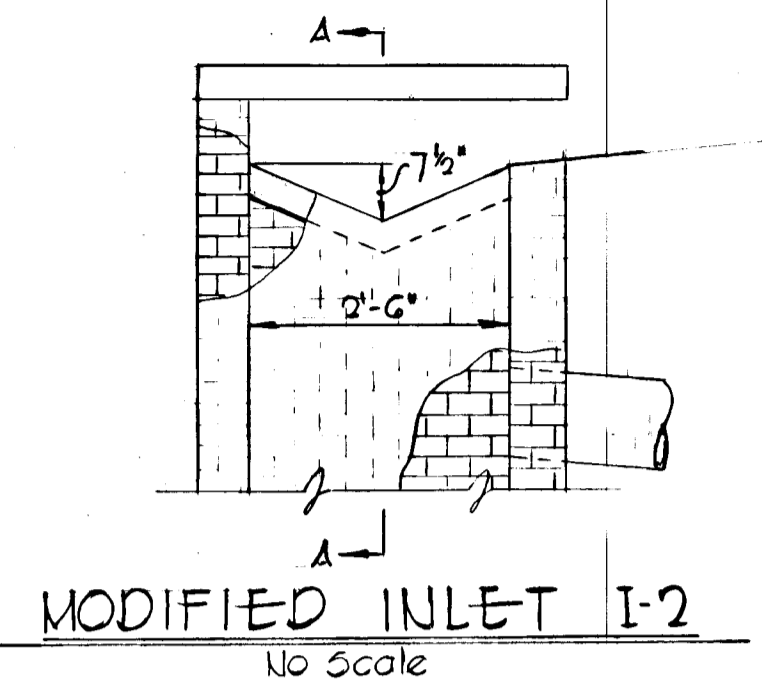
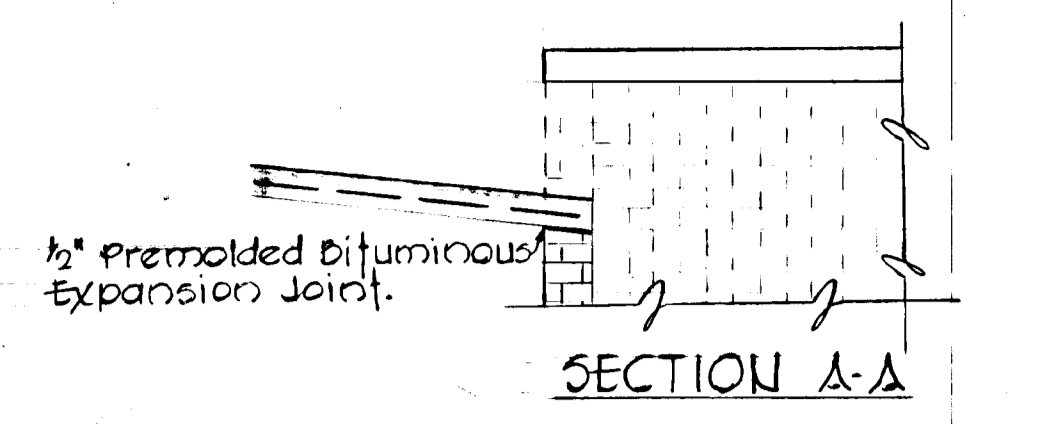
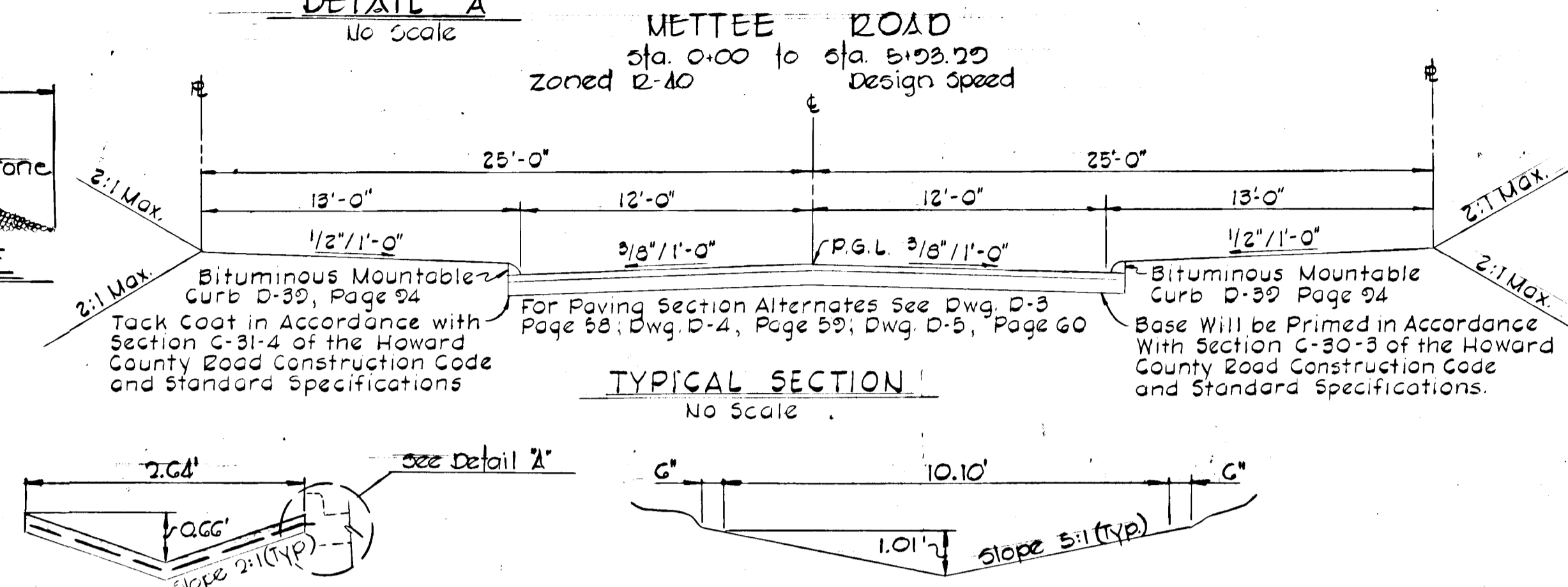
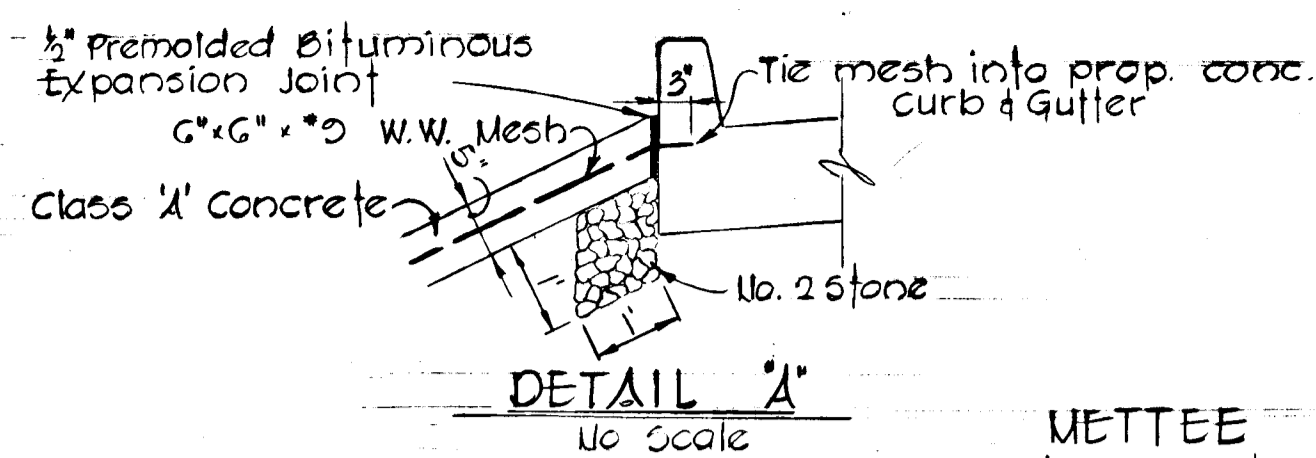
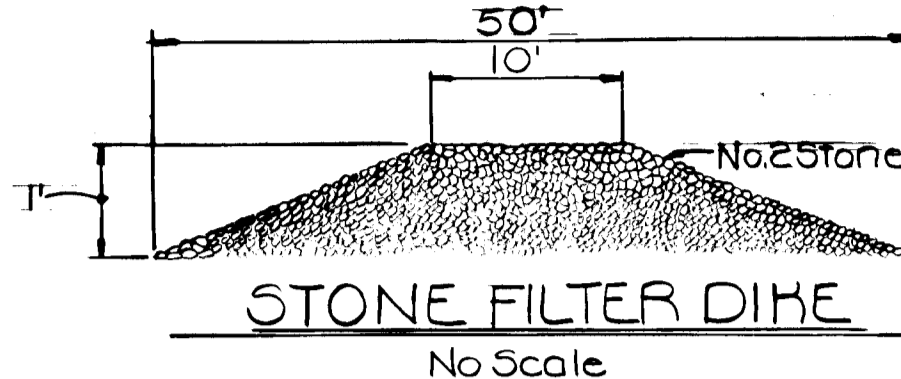
Reviewed for Howard County Soil Conservation District and meets Technical Requirements.
Eric V. Herman 10/28/75
U.S. Soil Conservation Service DATE

This development plan is approved for Soil Erosion and Sediment Control by the Howard County Soil Conservation District.

APPROVED: *Robert J. Zich* 10/28/75
District Coordinator DATE
Howard County Soil Conservation District

SEDIMENT CONTROL NOTES

- The developer shall notify the Howard County Soil Conservation District at least 24 hours prior to beginning any construction shown hereon (465-3180).
- 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 Soil Conservation District (465-3180 or 465-5000 Ext. 291).
- All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
 - Site Preparation:
 - Harrow or disc in areas proposed to be seeded 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 seeded area shall then be raked with a York Rake (a minimum of two passes), covered and compacted with Cultipacker or other approved method.
 - Mulching:
 - Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 tons to 2 tons/acre.
 - Tie mulch down with liquid asphalt at 0.1 gal/s.y. or emulsified asphalt at 0.04 gal/s.y. or mulch netting.
- Sediment and Erosion Control Requirements shown hereon are for road 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 County Soil Conservation District.



CONSTRUCTION SEQUENCE

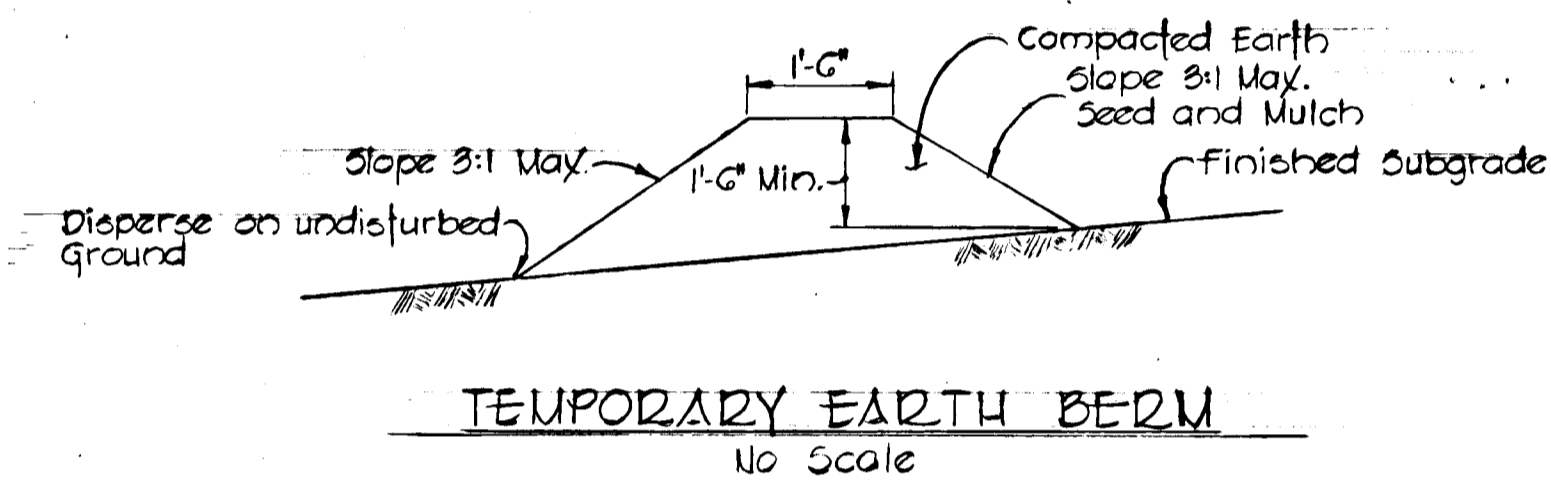
- Construct stone filter dike @ Sandhill Road and Mettee Road prior to the grading operation.
- Place roads to subgrade creating interim diversion berms across road Right-of-Ways at stations shown.
- Construct Storm Drain Systems.
- Remove interim diversion berms and place road base and surface courses; curbing.
- Bring road slopes to finished grade; seed and mulch in accordance with sediment control note #4.

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.

BENCH MARKS

- B.M. #1 Elev. 580.31
R.R. Spike in C & P #10, 66'± South
C-1 Traverse; South side Sand Hill
Road 125'± S.E. of Stucco Church
- B.M. #2 Elev. 582.11
R.R. Spike in C & P #11 74'± South
L-6 Traverse; East Side Sand Hill
Road



CONC. FLUME @ I-2
No Scale

CHANNEL DESIGN DATA

A = 0.87' n = 0.014
 WP = 2.05' s = 0.50%
 R = 1/4 WP = 0.5125 s² = 0.0707
 R^{2/3} = 0.4431 d = 0.06'
 V = 1.85 / 1.485 x R^{2/3} x s^{1/2}
 V = 1.85 / 1.485 x 0.4431 x 0.0707
 V = 3.32 f.p.s.
 Q = V x A = 3.32 x 0.87 = 2.90 cfs

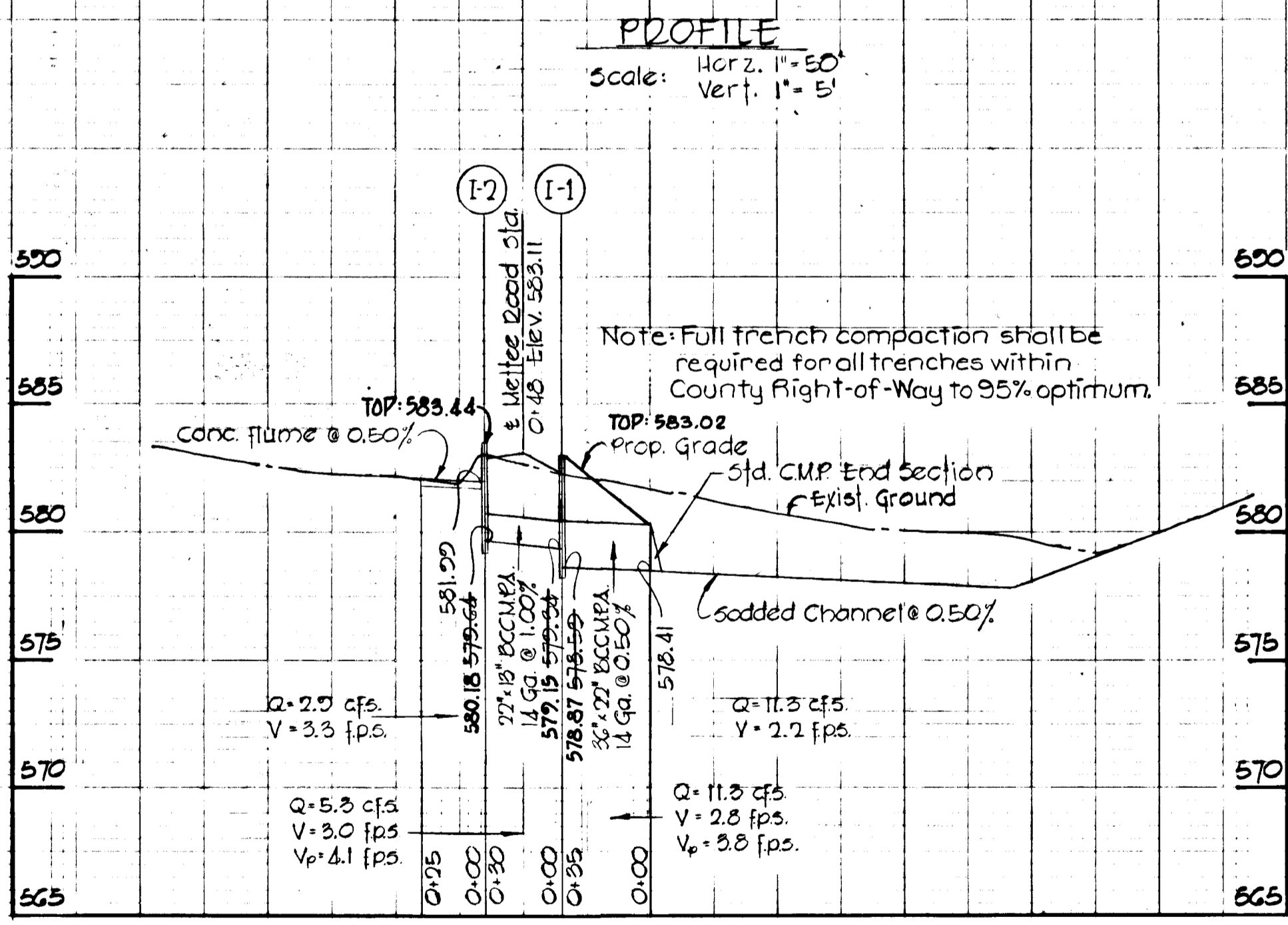
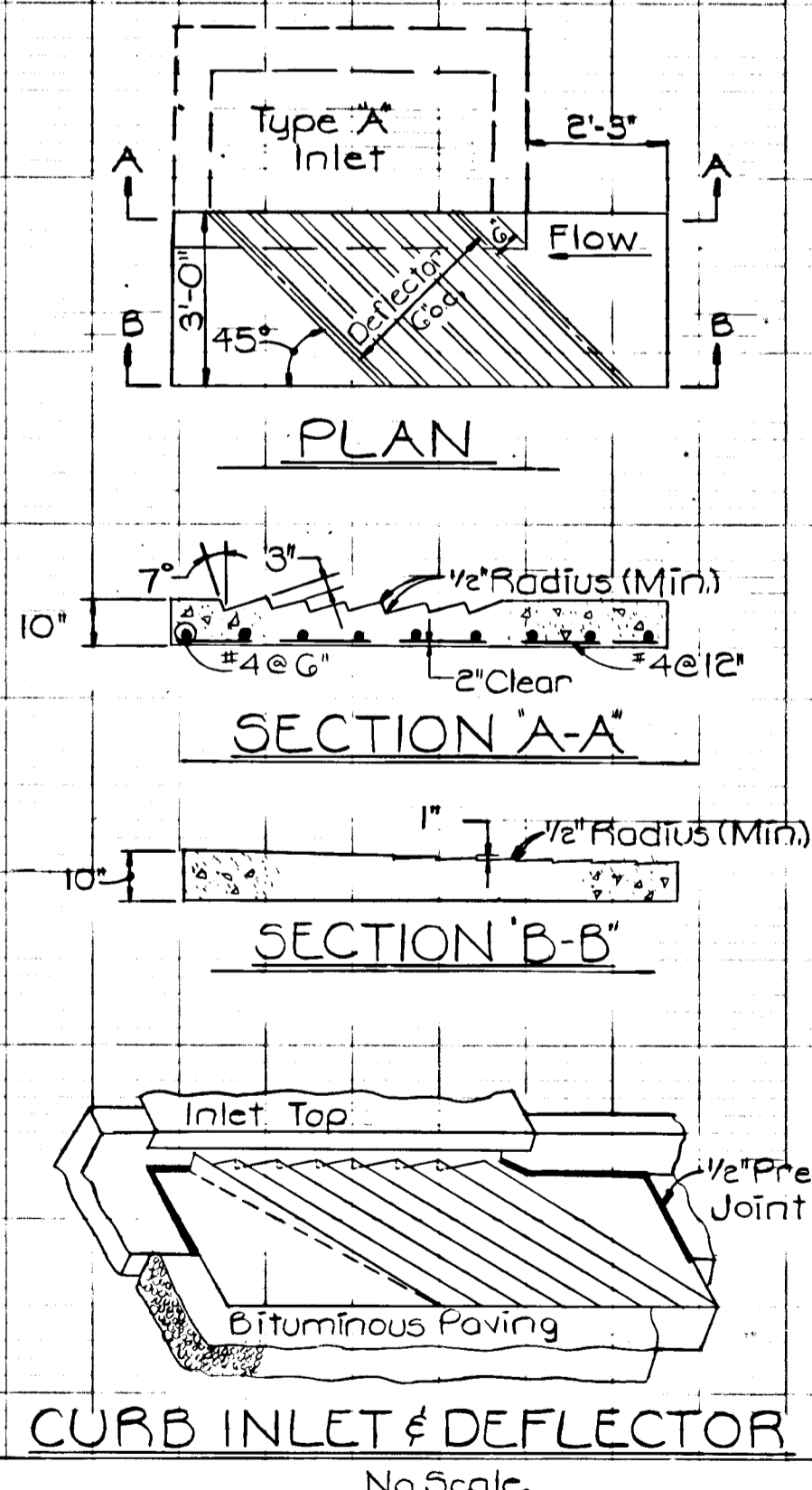
SOD CHANNEL @ OUTFALL
No Scale

CHANNEL DESIGN DATA

A = 5.14' n = 0.03
 WP = 10.28' s = 0.50%
 R = 1/4 WP = 2.57 s² = 0.0707
 R^{2/3} = 0.6275 d = 1.01'
 V = 1.85 / 1.485 x R^{2/3} x s^{1/2}
 V = 1.85 / 1.485 x 0.6275 x 0.0707
 V = 2.20 f.p.s.
 Q = V x A = 2.20 x 5.14 = 11.30 cfs

STRUCTURE SCHEDULE

STRUCTURE	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	A-15 W/Deflectors	579.34	578.59	583.10	Dwg. 64-A P.119-A
I-2	Mod. A-5 W/Deflect.	-	579.64	583.54	Dwg. 64-A P.119-A



APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 10/31/75
[Signature]

APPROVED: Department of Public Works
B. M. McCreary 11/4/75
 Chief, Bureau of Highways DATE

APPROVED: Office of Planning and Zoning
J. H. McCreary 10/31/75
 Chief, Division of Land Development and Transportation Planning DATE

STORM DRAIN PROFILES AND SEDIMENT CONTROL DETAILS

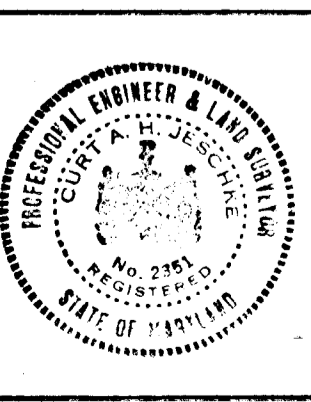
CREST ACRES
 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

February 10, 1975 Scale: As Shown

PURDUM & JESCHKE
 CONSULTING ENGINEERS
 LAND SURVEYORS

1023 North Calvert Street
 Baltimore, Maryland 21202 301/837-0194

[Signature] 2/14/75
 Curt A.H. Jeschke Reg. No. 2351 DATE



OWNER AND DEVELOPER
 BRADLEY T. J. METEE, JR. ET. AL.
 1906 Cedar Circle
 Baltimore, Maryland

DESIGNED BY: D.A. Hamill
 DRAFTED BY: D.A. Hamill
 CHECKED BY: R.B. Carter

Sheet 2 of 3

PERCOLATION TEST DATA			
LOT NO.	Block No.	Average Percolation Time in Minutes for Second Inch	Maximum Depth Permitted for Effluent Pipe to Enter Sewage Disposal Area at its Highest Elevation with Reference to Existing Grade at time of Percolation Test.
1	---	3Min.	4'
2	---	4Min.	5'
3	---	3Min.	4'
4	---	7Min.	5'
5	---	2Min.	5'
6	---	5Min.	5'
7	---	4Min.	5'
8	---	4Min.	5'
9	---	3Min.	4'

APPROVED: For Individual Sewage and Private Water System
J. Brett Lazar 6/14/74
 J. BRETT LAZAR, County Health Officer Date

Note: The lots shown hereon comply with minimum ownership width and lot area as required by the Maryland State Department of Health Regulations.

GENERAL NOTES

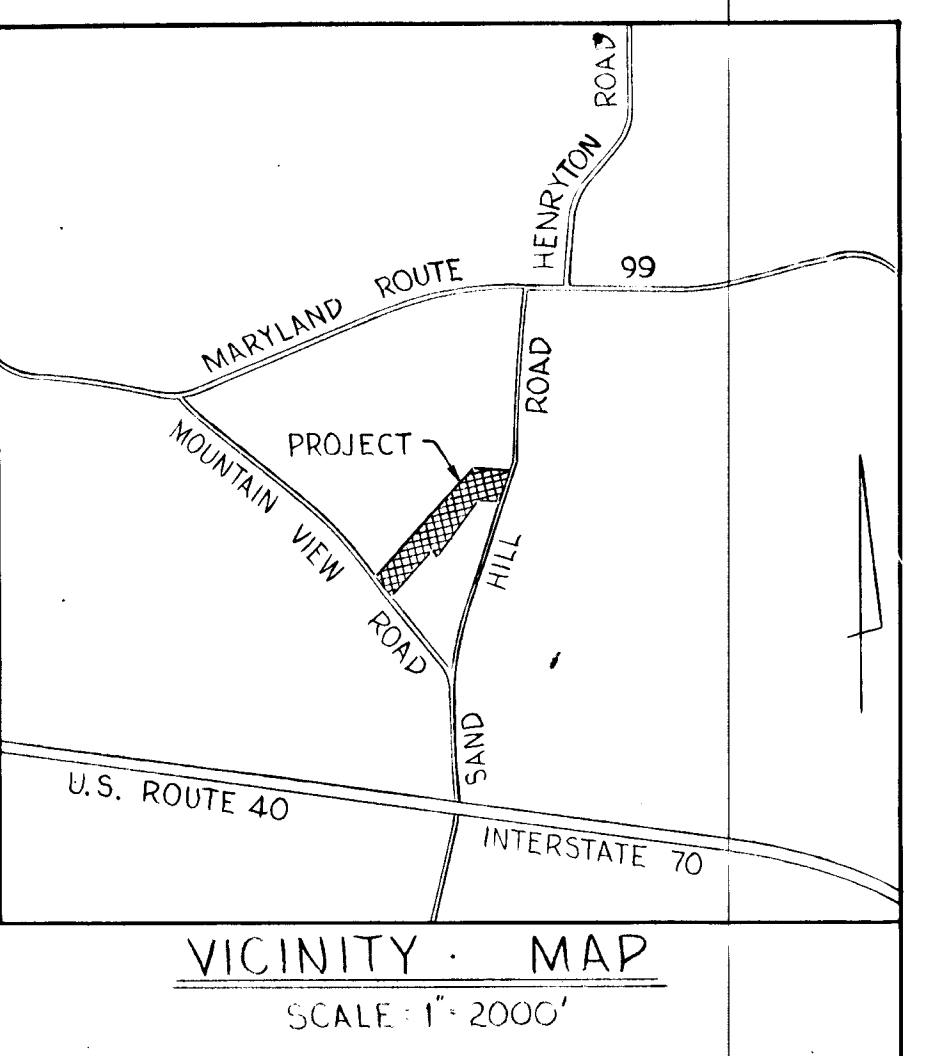
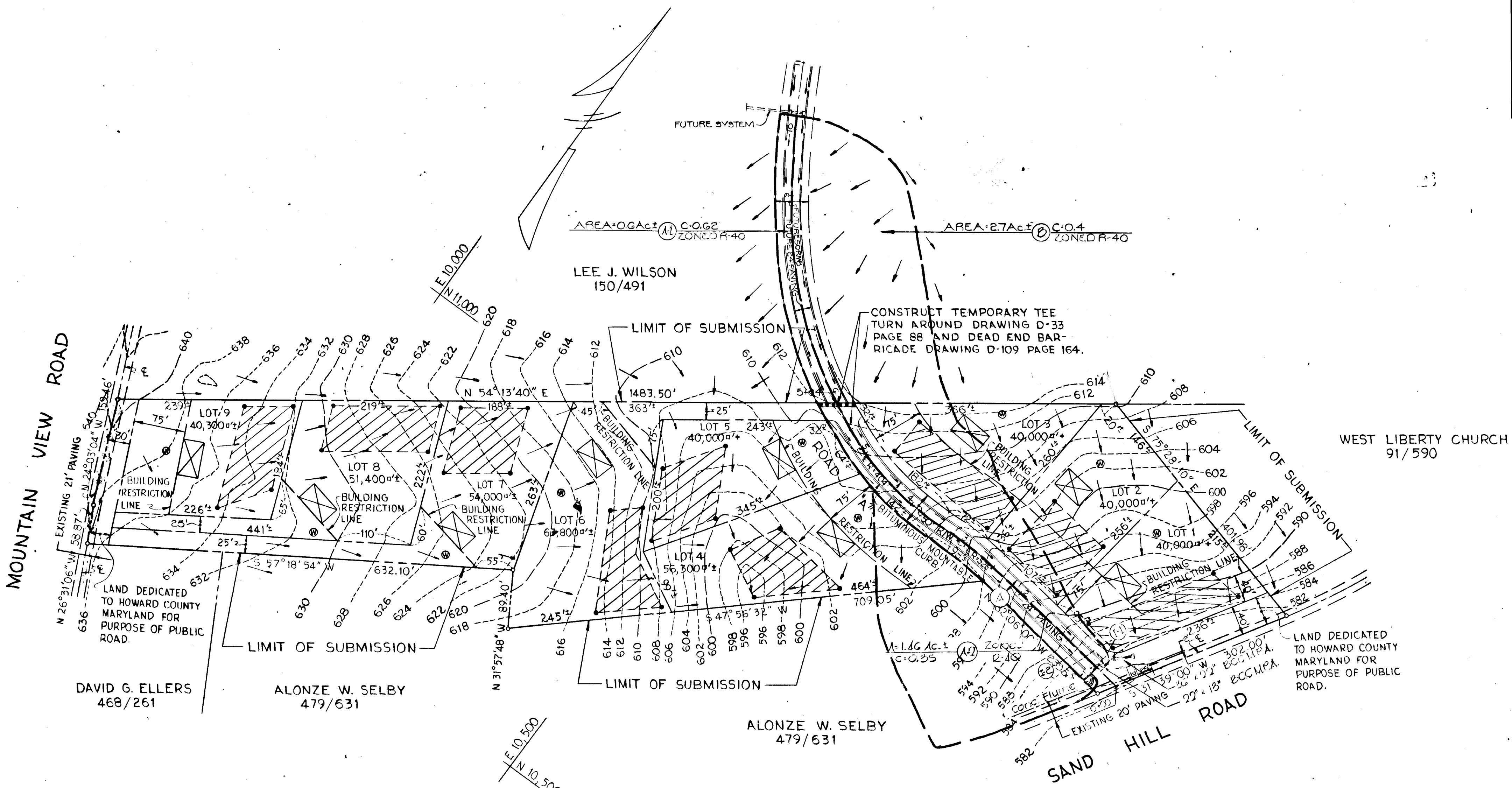
- PRESENT ZONING R-40.
- TOTAL NUMBER OF LOTS 9
- CONTOURS SHOWN HEREON ARE BASED ON ASSUMED DATA.
- PROPERTY IS LOCATED ON TAX MAP 16, PART OF PARCEL 73.
- GRADES WITHIN THIS DEVELOPMENT DO NOT EXCEED 25% IN AS MUCH AS THEY RELATE TO MINIMUM LOT AREA IN ACCORDANCE WITH THE MARYLAND STATE DEPARTMENT OF HEALTH REGULATIONS.
- AREA OF LOTS 9.8 Ac. ±
- AREA OF LAND DEDICATED TO HOWARD COUNTY, MARYLAND FOR PURPOSE OF PUBLIC ROAD AND ROAD "A" 1.0 Ac. ±.
- TOTAL AREA 10.8 Ac. ±
- PRIVATE SEWAGE AND PRIVATE WATER WILL BE USED WITHIN THIS DEVELOPMENT.

LEGEND

- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF APPROXIMATELY 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE HEALTH DEPARTMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE AND SERVICING ANY RESIDENTIAL STRUCTURE CONSTRUCTED ON THESE BUILDING SITES. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM.
- DENOTES LOCATION OF TEST HOLE.
- ⊠ APPROXIMATE LOCATION OF DWELLING.
- ⊙ DENOTES APPROXIMATE LOCATION OF WELL.

APPROVED: Department of Public Works.
B. P. McKeown 11/14/75
 Chief, Bureau of Highways Date

PURDUM & JESCHKE
 ENGINEERS &
 LAND SURVEYORS
 1023 N. CALVERT ST.
 BALTIMORE, MD. 21202



DAVID G. ELLERS 468/261
 ALONZE W. SELBY 479/631
 ALONZE W. SELBY 479/631
 WEST LIBERTY CHURCH 91/590

WILLIAM G. RASCH REG. # 17 DATE 6/14/74

OWNER & DEVELOPER
 Bradley T. J. Mettee, Jr., ET AL
 1906 Cedar Circle
 Baltimore, Maryland

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 10/31/75
[Signature]

DRAINAGE AREA MAP
CREST ACRES
 3rd ELECTION DISTRICT
 JUNE 14, 1974
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100'