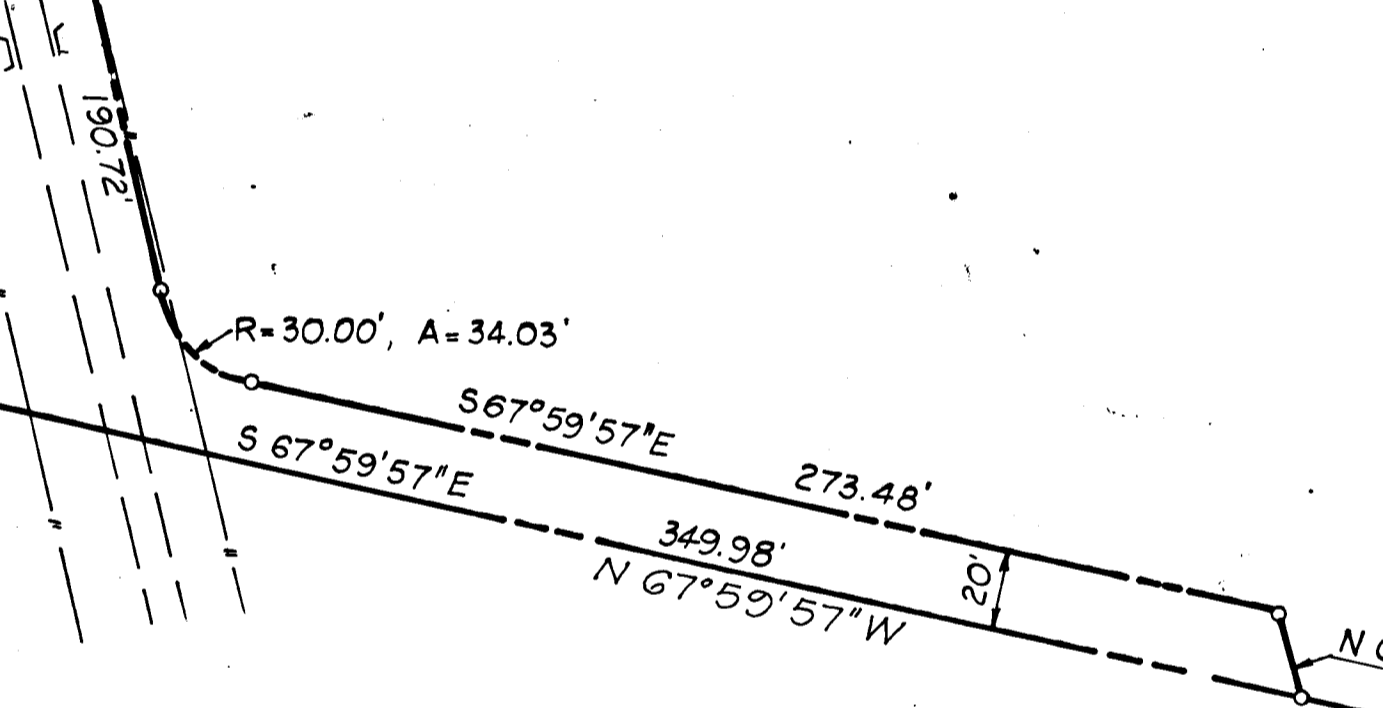
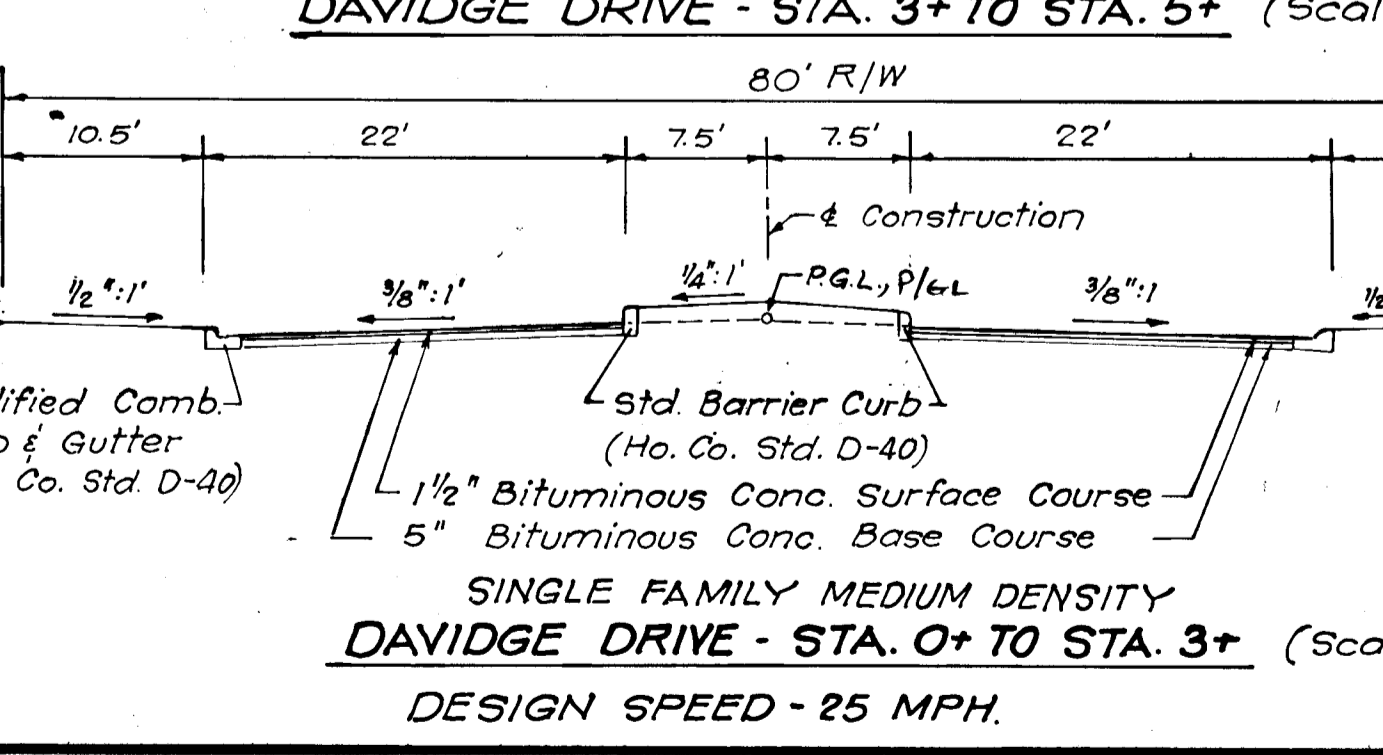


Modified Comb. Curb & Gutter (Ho. Co. Std. D-40) 1 1/2" Bit. Conc. Surface Course 5" Bit. Conc. Base Course 4" Conc. Sidewalk (As shown) Claiborne Circle slopes up 1/8":1 SINGLE FAMILY MEDIUM DENSITY DAVIDGE DRIVE - STA. 5+ TO STA. 10+ CLAIBORNE CIRCLE - STA. 0+ TO STA. 1+ DESIGN SPEED - 25 MPH. Scale: 1"=10'

BENCH MARKS
 C-2 N 511,578.690 E 640,881.743 EL. 410.07 Station C-2 is a 3/8" iron pin rod set flush with ground on South side of Md. 108. Approx. 1.1 mile Southwest of the intersection of Md. 108 and U.S. 29
 C-3 N 511,182.522 E 838,395.572 EL. 434.48 Station C-3 is a 3/8" iron rod set flush with the ground on North side of Md. 108. Approx. 1.3 miles Southwest of the intersection of Md. 108 and Cedar Lane.

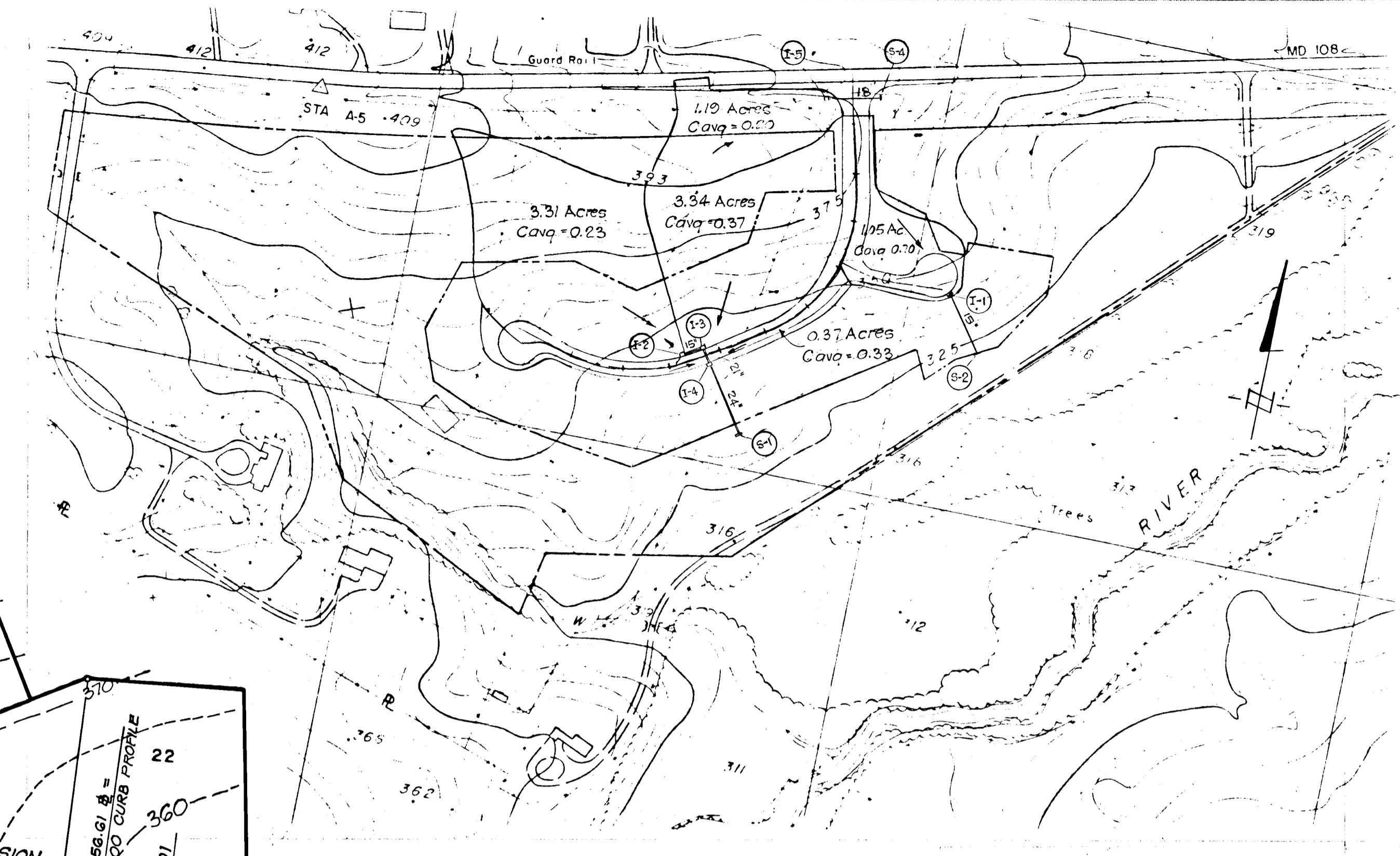


Modified Comb. Curb & Gutter (Ho. Co. Std. D-40) 1 1/2" Bituminous Conc. Surface Course 5" Bituminous Conc. Base Course 4" Conc. Sidewalk (As shown) SINGLE FAMILY MEDIUM DENSITY DAVIDGE DRIVE - STA. 3+ TO STA. 5+ (Scale: 1"=10')

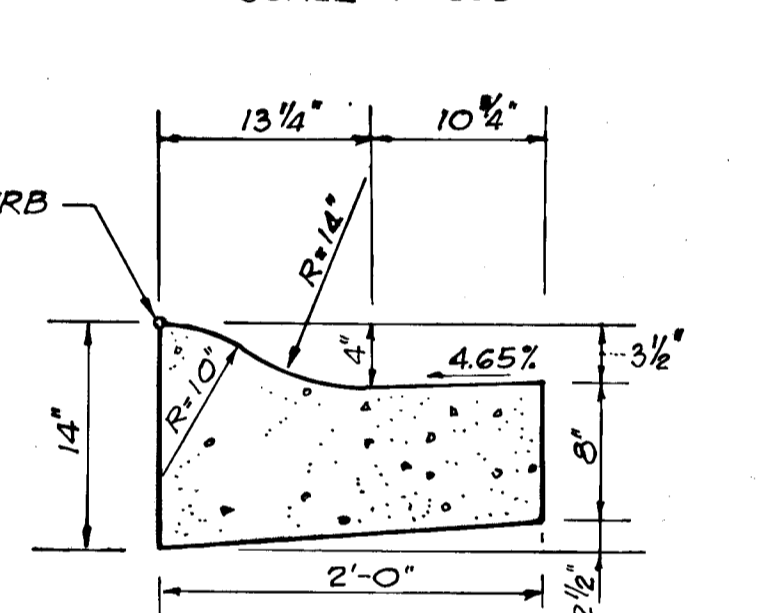


Modified Comb. Curb & Gutter (Ho. Co. Std. D-40) Std. Barrier Curb (Ho. Co. Std. D-40) 1 1/2" Bituminous Conc. Surface Course 5" Bituminous Conc. Base Course SINGLE FAMILY MEDIUM DENSITY DAVIDGE DRIVE - STA. 0+ TO STA. 3+ (Scale: 1"=10') DESIGN SPEED - 25 MPH.

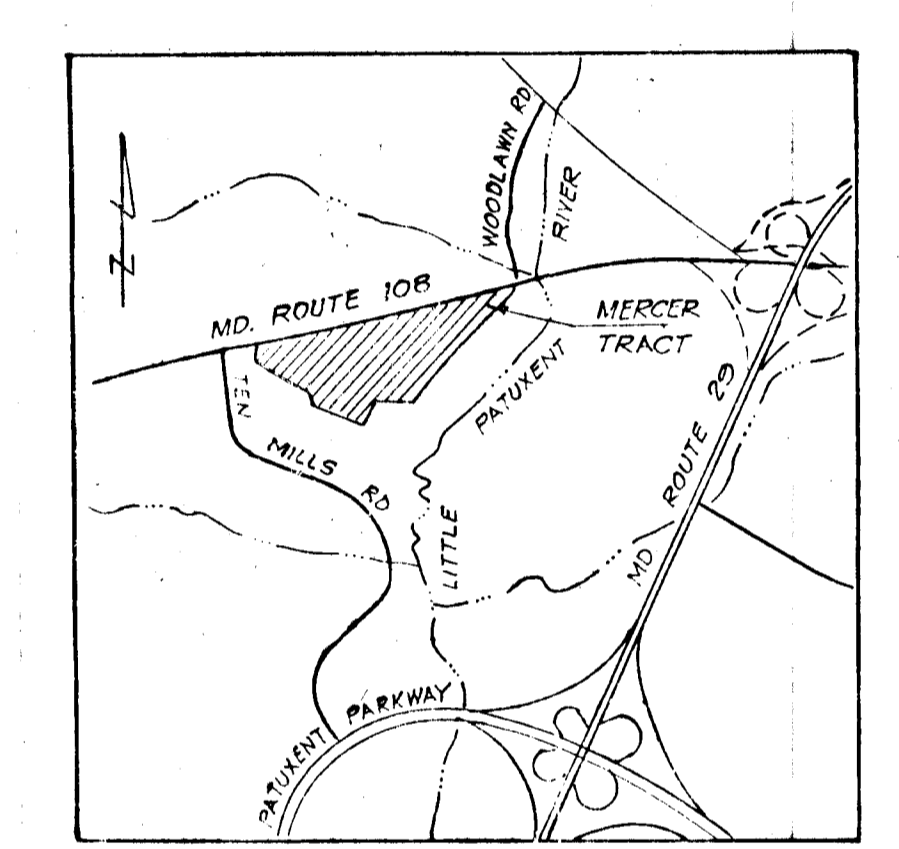
- NOTES:**
- The base will be primed in accordance with Section C-30-3 in the Howard County Road Code.
 - Tack Coat is required in accordance with Section C-31-4 of Howard County Road Code.
 - All construction and materials shall meet the requirements set forth in the Howard County Road Code.



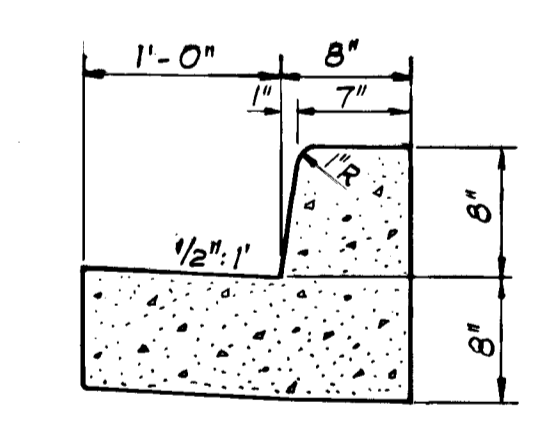
DRAINAGE AREA MAP
SCALE: 1"=200'



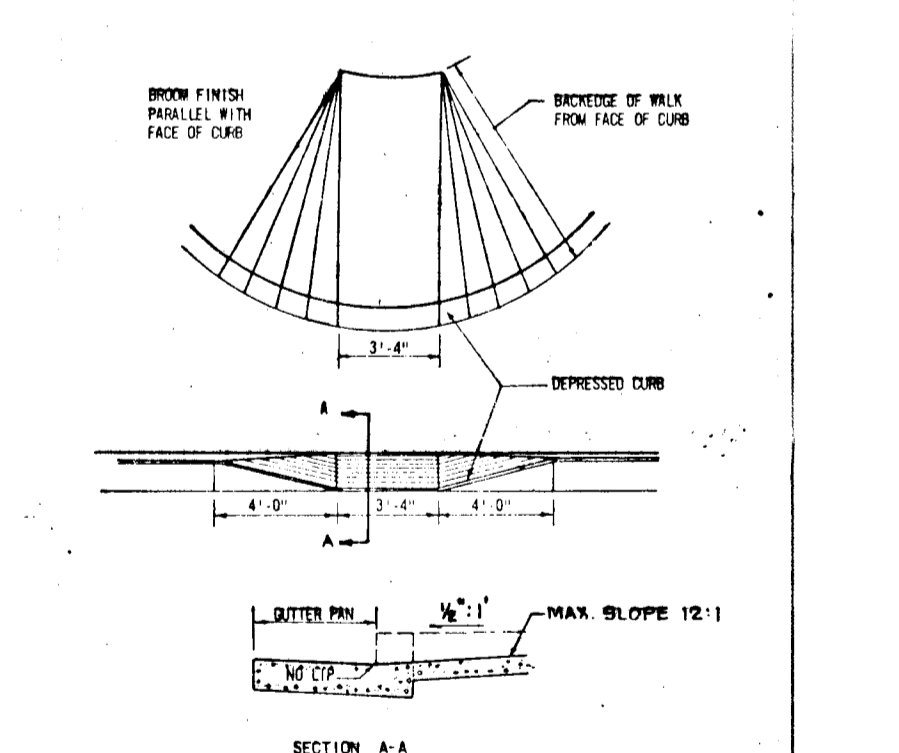
MODIFIED COMB. CONCRETE CURB & GUTTER
SCALE: 1"=1'-0"



VICINITY MAP
Scale: 1"=2000'



M.S.H.A. TYPE 'A' CURB
SCALE 1"=1'-0"
ALONG MD. RTE. 108
(SEE PLANS FOR LIMITS)



HANDICAPPED RAMP DETAILS
No scale
ROUSE CO. BUILDING
COLUMBIA, Md. 21044

Reviewed for Howard County Soil Conservation District and meets Technical Requirements.
E. Wayne Ray 7-21-78
 U.S. Soil Conservation District Date
 This development plan is approved for Soil Erosion and Sediment Control by the Howard County Soil Conservation District
Robert A. Green 7-21-78
 District Coordinator Date
 Howard Soil Conservation District

COLUMBIA MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.

APPROVED: Department of Public Works.
W.O. Lister 8-4-78
 Chief, Bureau of Engineering Date
 APPROVED: Division of Planning & Zoning
John W. Marshall 7-24-78
 Chief, Division of Land Development Date

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 onsite inspection by the Howard Soil Conservation District or their authorized agent, as deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
John H. Necker, Jr. 1/30/78
 JOSEPH H. NECKER, JR. Date

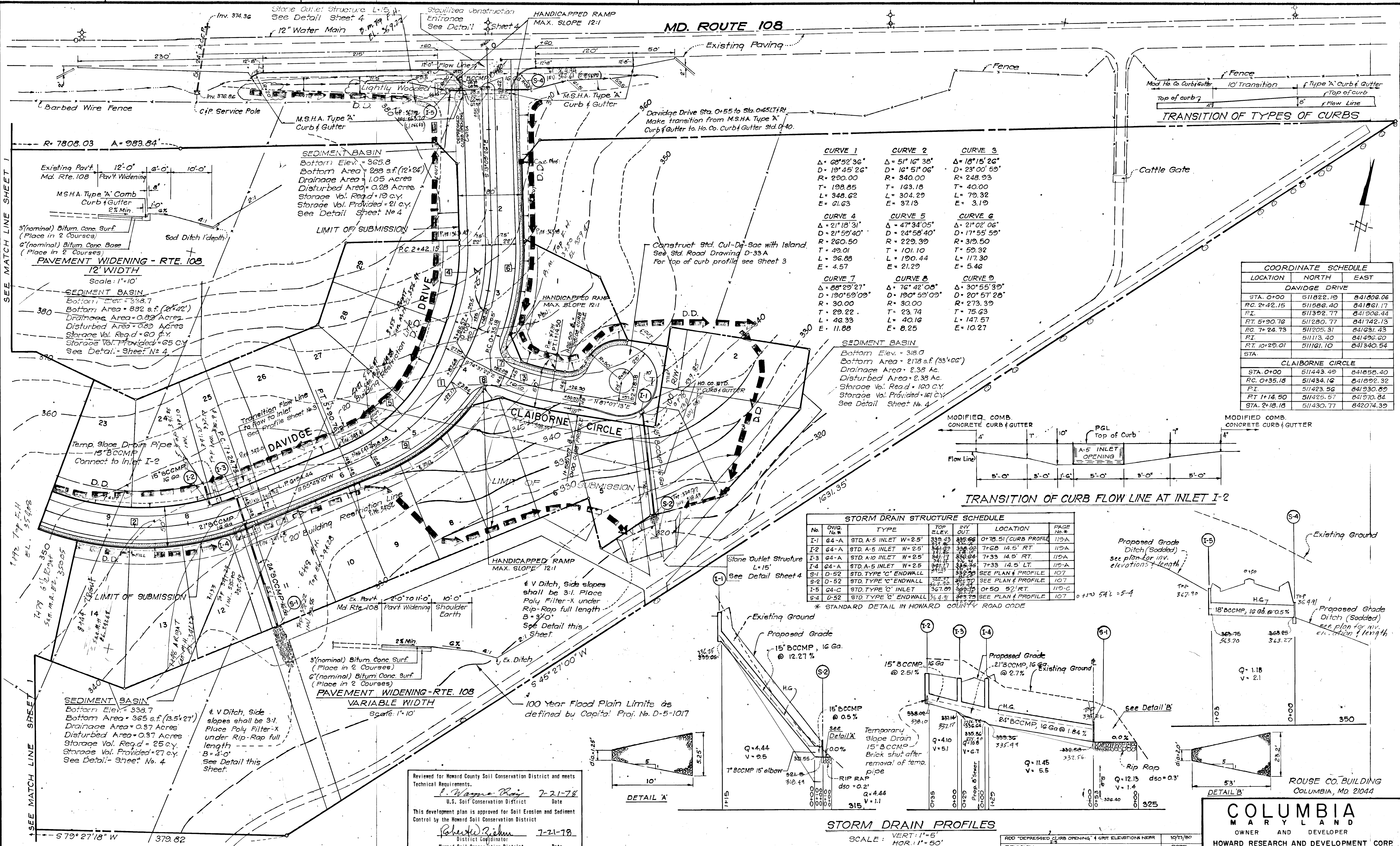
ENGINEER'S CERTIFICATE
 I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Ferdinand C. Provini 1/24/78
 FERDINAND C. PROVINI Date



GREENHORNE & O'MARA, INC.
 ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
 6715 KENILWORTH AVE., RIVERDALE, MD.
 301/277-2121 20840

TOWN CENTER
 SECTION 9 AREA 1
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

T.J.W. DESIGN		
E.B. DRAWN	SCALE 1"=50'	
T.J.W. CHECKED	SHEET No. 1 OF 4	
Jan., 1978 DATE	182627 JOB No.	5916-X-09-01 FILE No.



APPROVED: Department of Public Works.
W. O. Laibert 8-4-78
Chief, Bureau of Engineering
Date

APPROVED: Office of Planning & Zoning
John W. Marshall 7-24-78
Chief, Division of Land Development
Date

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JOSEPH H. NECKER, JR.
Date

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FERDINAND C. PROVINI
Date



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ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
6715 KENILWORTH AVE., RIVERDALE, MD.
301/277-2121 20840

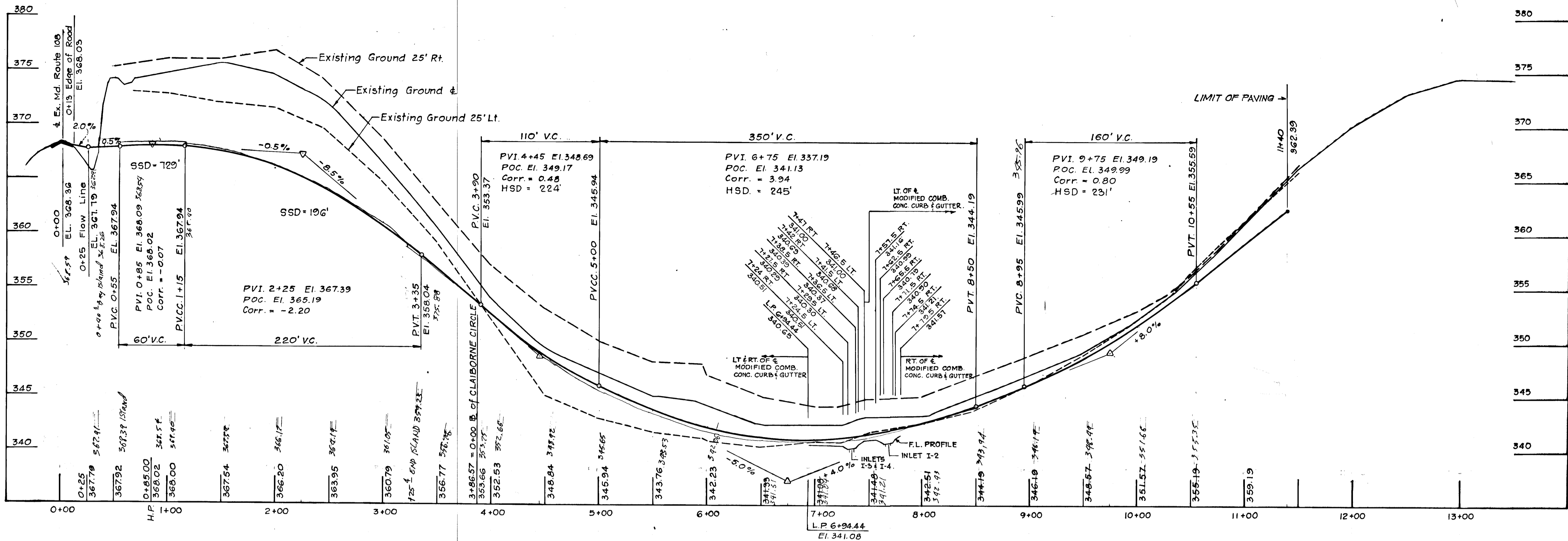
TOWN CENTER
SECTION 9 AREA 1
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

COLUMBIA MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.

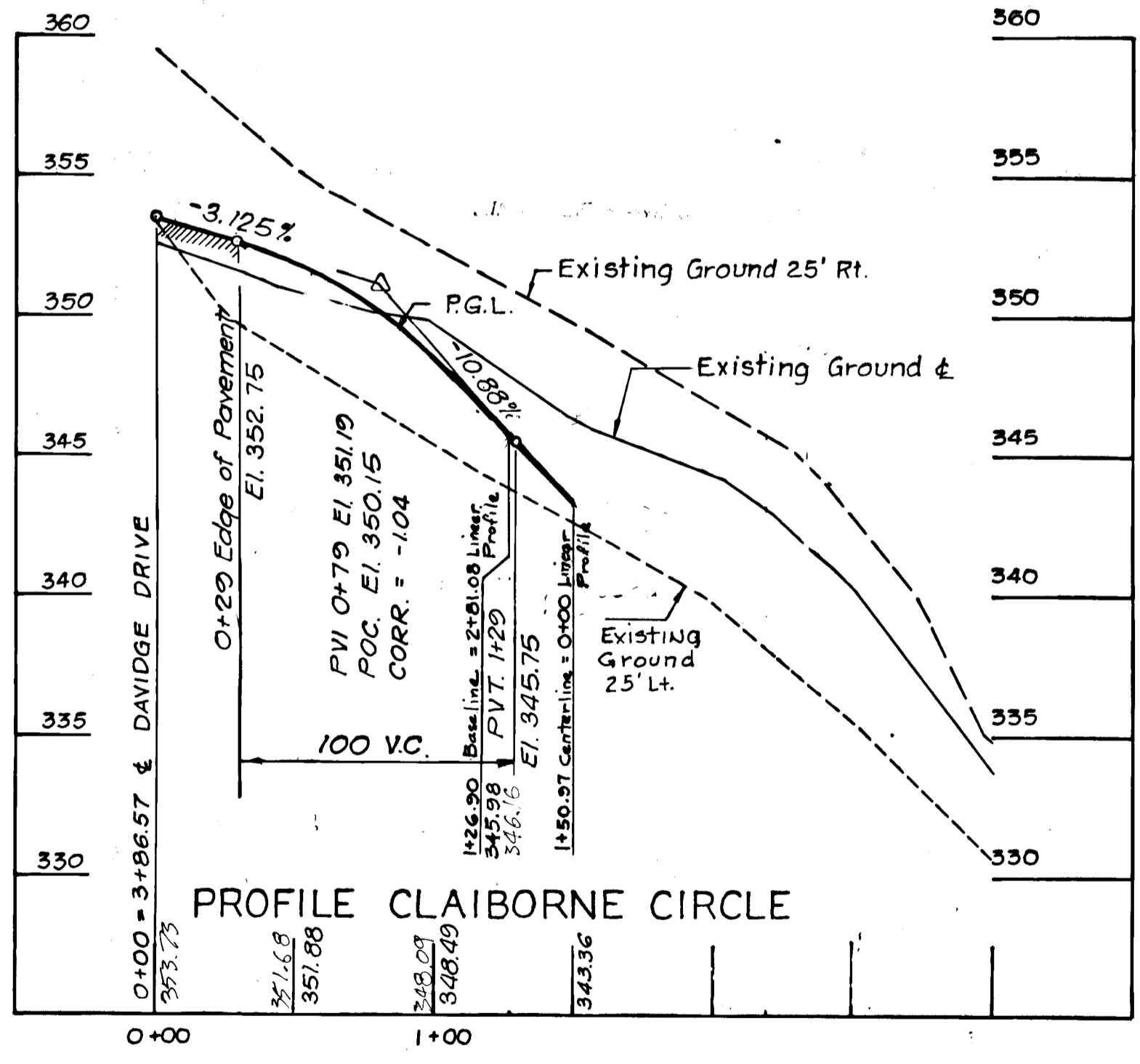
T.J.W. DESIGN
E.B. DRAWN
T.J.W. CHECKED
Jan. 1978 DATE
182627 JOB No.
5916-X-09-02 FILE No.

SCALE 1"=50'
SHEET No. 2 OF 4

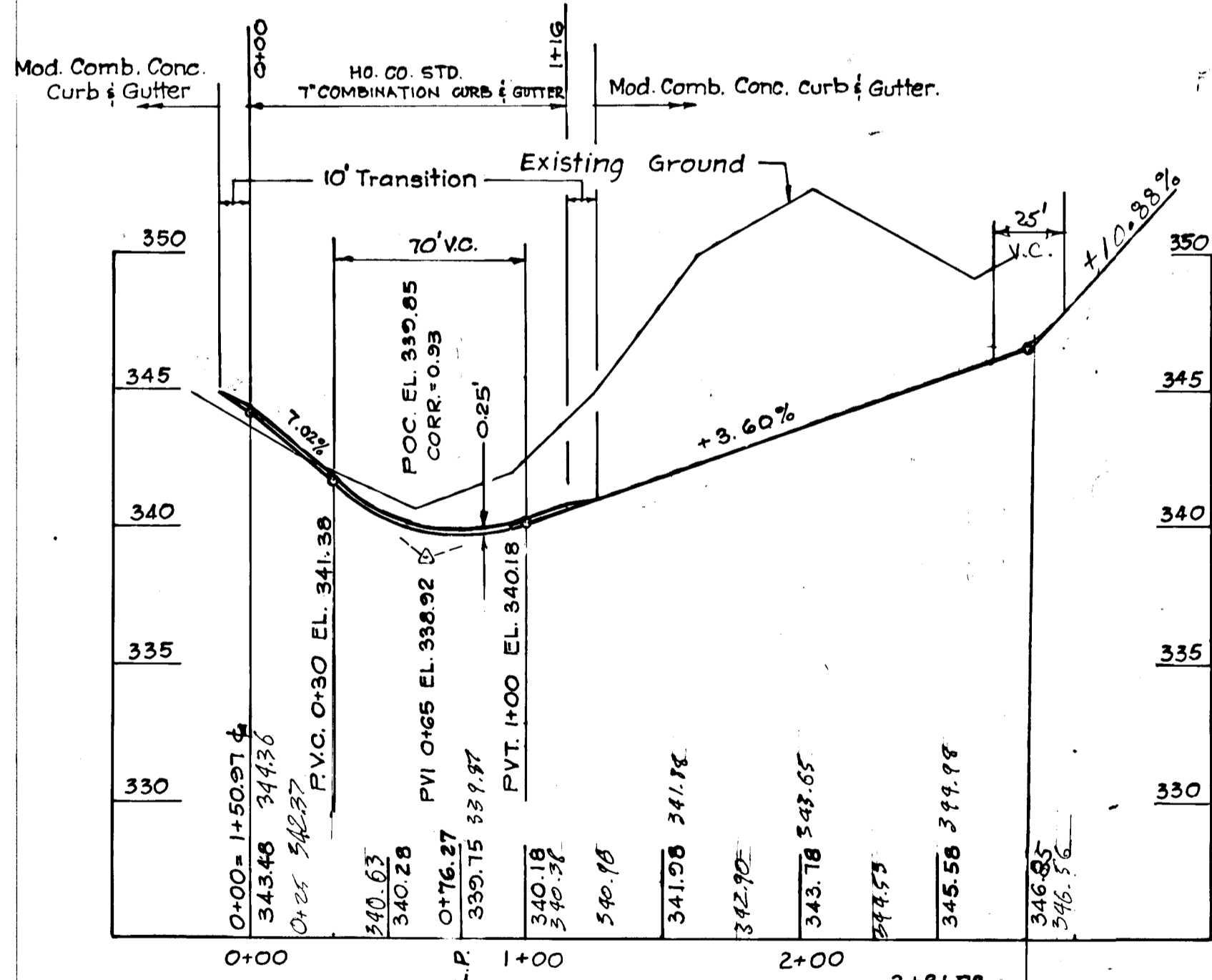
AS Built 2/17/81, p.c. F-78-146



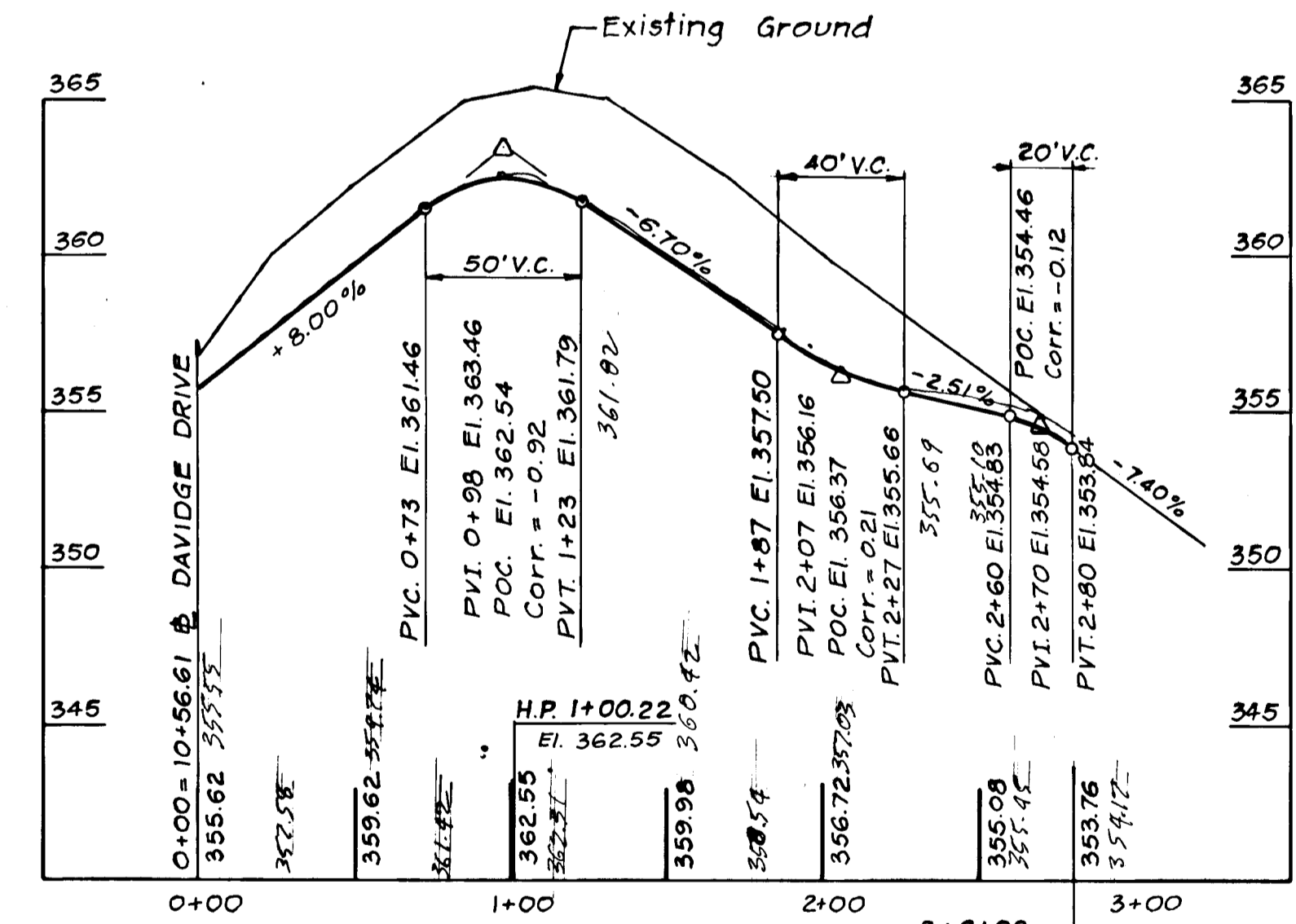
PROFILE DAVIDGE DRIVE



PROFILE CLAIBORNE CIRCLE



CLAIBORNE CIRCLE CUL-DE-SAC
TOP OF CURB PROFILE



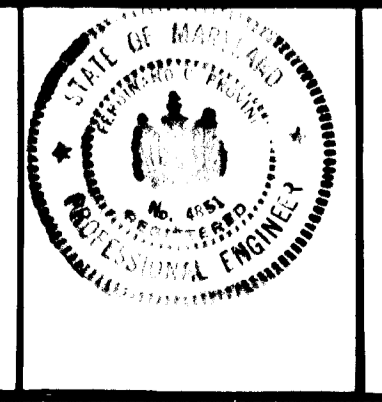
DAVIDGE DRIVE CUL-DE-SAC
TOP OF CURB PROFILE

Reviewed for Howard County Soil Conservation District and meets Technical Requirements.
 U.S. Soil Conservation District _____ Date _____
 This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District
 District Coordinator _____ Date _____

APPROVED: Department of Public Works.
 W. O. Lambert 8-4-78
 Chief, Bureau of Engineering
 APPROVED: Office of Planning & Zoning
 John W. Murrain 7-24-78
 Chief, Division of Land Development

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 Date

ENGINEER'S CERTIFICATE
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 Ferdinand C. Provini 1/24/78
 Date



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 ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
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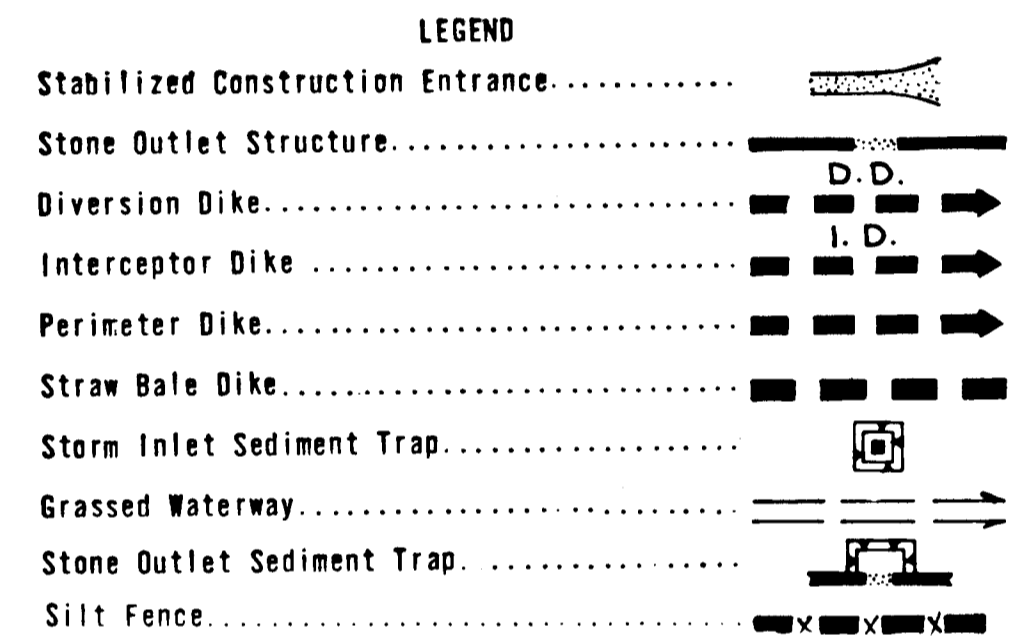
TOWN CENTER
 SECTION 9 AREA 1
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

T.J.W. DESIGN	K.P. DRAWN	VERT. 1"=5'	HOR. 1"=50'
T.J.W. CHECKED	JAN. 1978 DATE	SHEET No. 3 OF 4	JOB No. 182627
		5/10-X-09-03 FILE No.	

ROUSE CO. BUILDING
 COLUMBIA, MD. 21044
COLUMBIA MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.

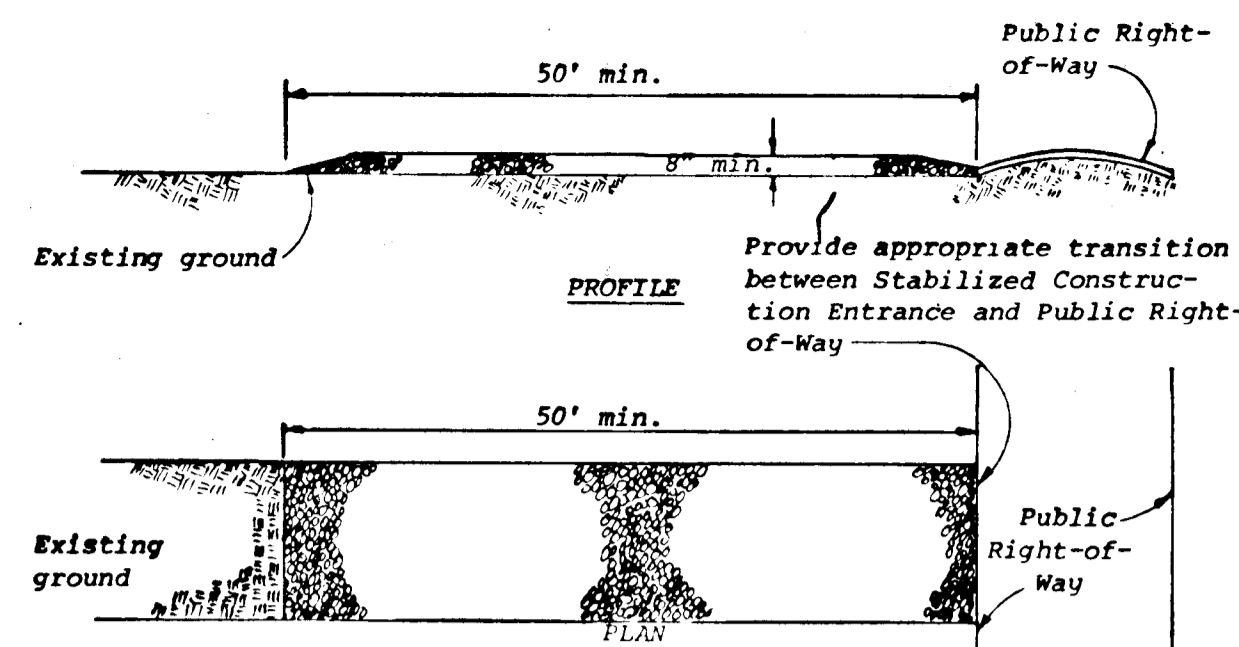
SEDIMENT CONTROL NOTES

- Specifications for the Sediment Control Details shown hereon are included in the U.S.D.A. Soil Conservation Service "Standards and Specifications for soil erosion and sediment control in developing areas."
- A grading plan must be developed by the builder and approved before beginning any work shown hereon.
- The developer shall notify the Howard County Office of Inspections and Permits at least 24 hours prior to beginning any construction shown hereon (485-5000 Ext. 365).
- Sediment control structures 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 Office of Inspection and Permits (332-2435).
- 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 seeding the following materials at the specified rate to a depth of 3":
 - Pulverized limestone at 2 tons/acre.
 - Commercial fertilizer 10-10-10 at 1/2 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:
 - Temporary: Italian or Perennial Rye Grass
 - Permanent: 40% Marion Blue Grass, 40% South Dakota Blue Grass and 20% Penn Lawn Creeping Red Fescue
 - The seeded area shall then be raked with a York Rake (a minimum of 2 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 - 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.
- Further development of individual lots are subject to additional Sediment and Erosion Control Requirements.

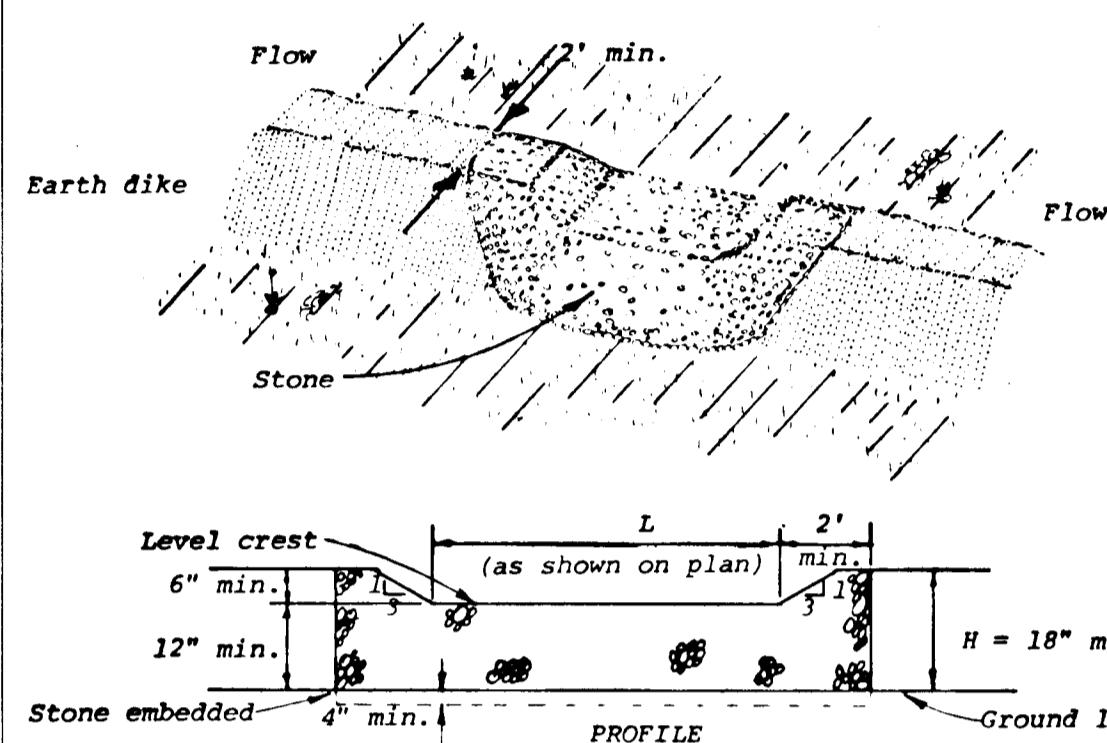


CONSTRUCTION SEQUENCE

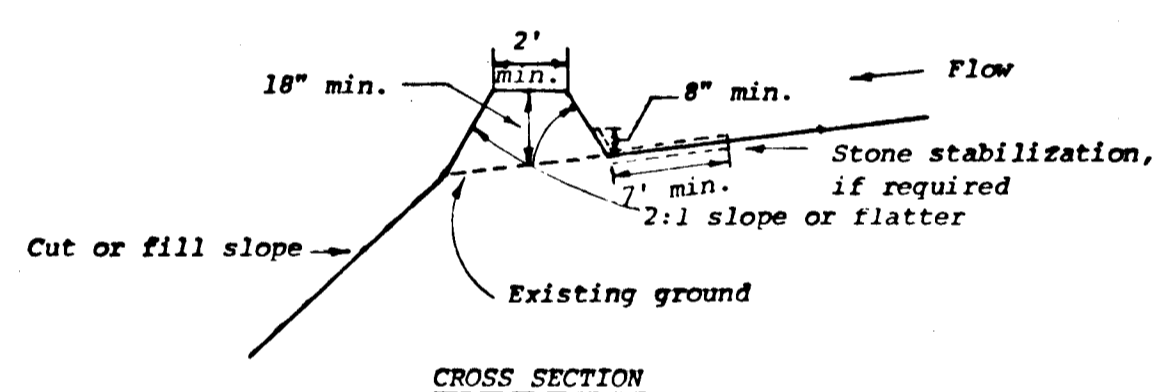
- Obtain grading permit
- Construct Storm Drain System between I-5 and S-4
- Construct Temporary Stabilized Construction Entrance
- Construct Storm Drain System between I-2, I-3, I-4, and S-1, including connection of temporary 15" BCOMP Slope Drain to Inlet I-2. Close opening of I-2 with sandbags. Block all inlets with sandbags at the end of each working day until all disturbed areas are stabilized.
- Construct Diversion Dikes north of Davidge Drive & Claiborne Circle
- Construct Interceptor Dikes & Sediment Basin south of Davidge Drive & Claiborne Circle
- Stabilize all dikes with temporary seeding and mulch.
- Construct Storm Drain System between I-1 and S-2.
- Construct Storm Inlet sediment traps at I-3, I-4, and I-5.
- Place all roads to subgrade. Stabilize graded areas with temporary seeding and mulch.
- Install all other utilities and stabilize disturbed area.
- Repair any sediment and erosion control devices disturbed during construction of utilities.
- Maintain sediment traps.
- Place curbs and paving courses.
- Fine grade slopes.
- Stabilize with permanent seeding and mulch as required.
- Remove sediment control devices.



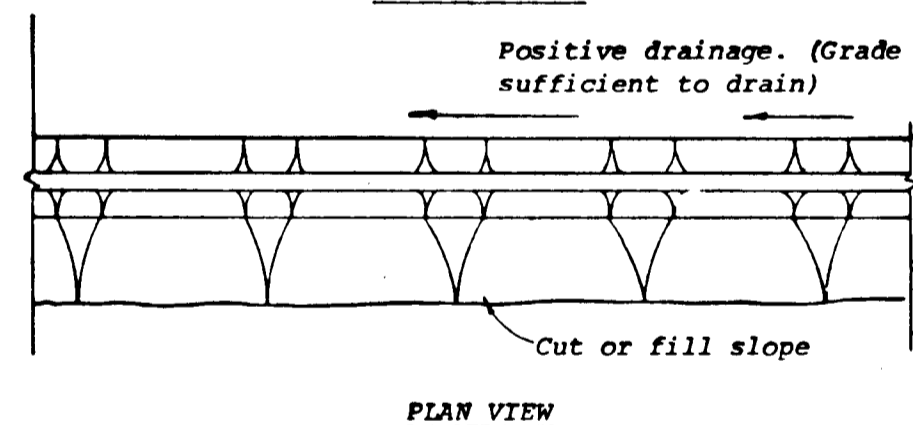
STABILIZED CONSTRUCTION ENTRANCE



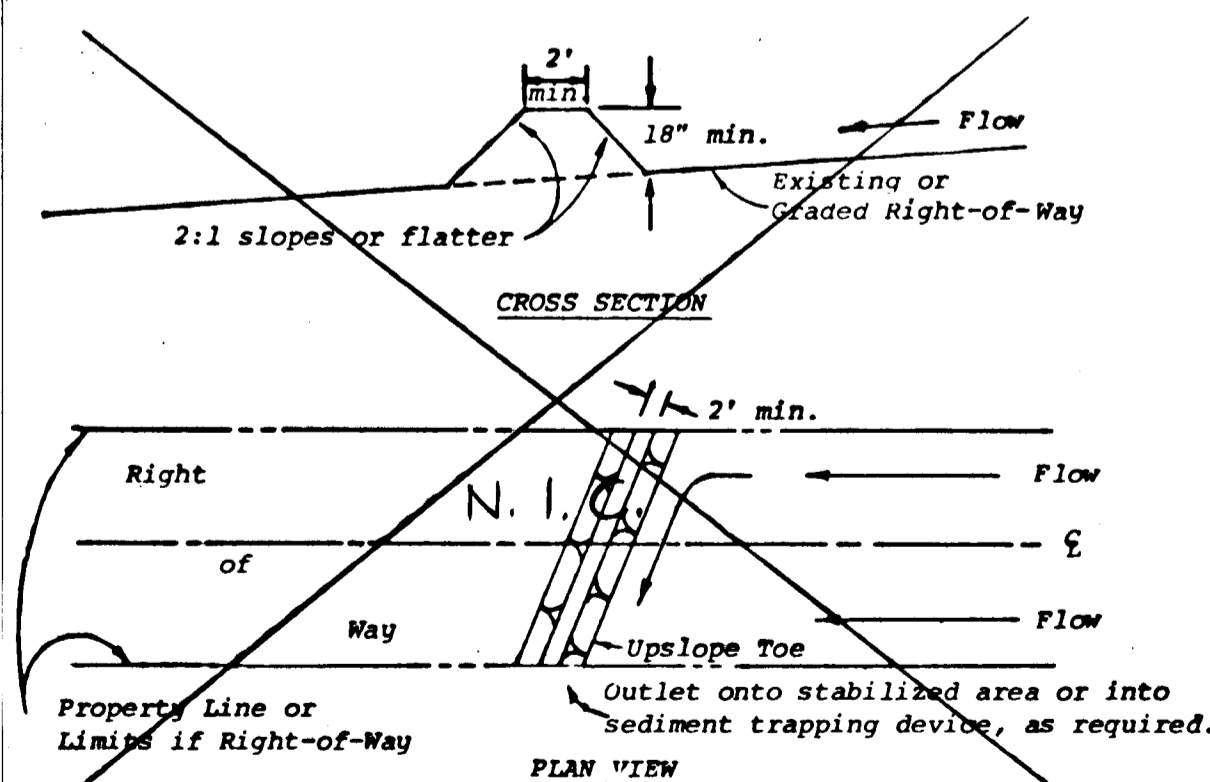
STONE OUTLET STRUCTURE



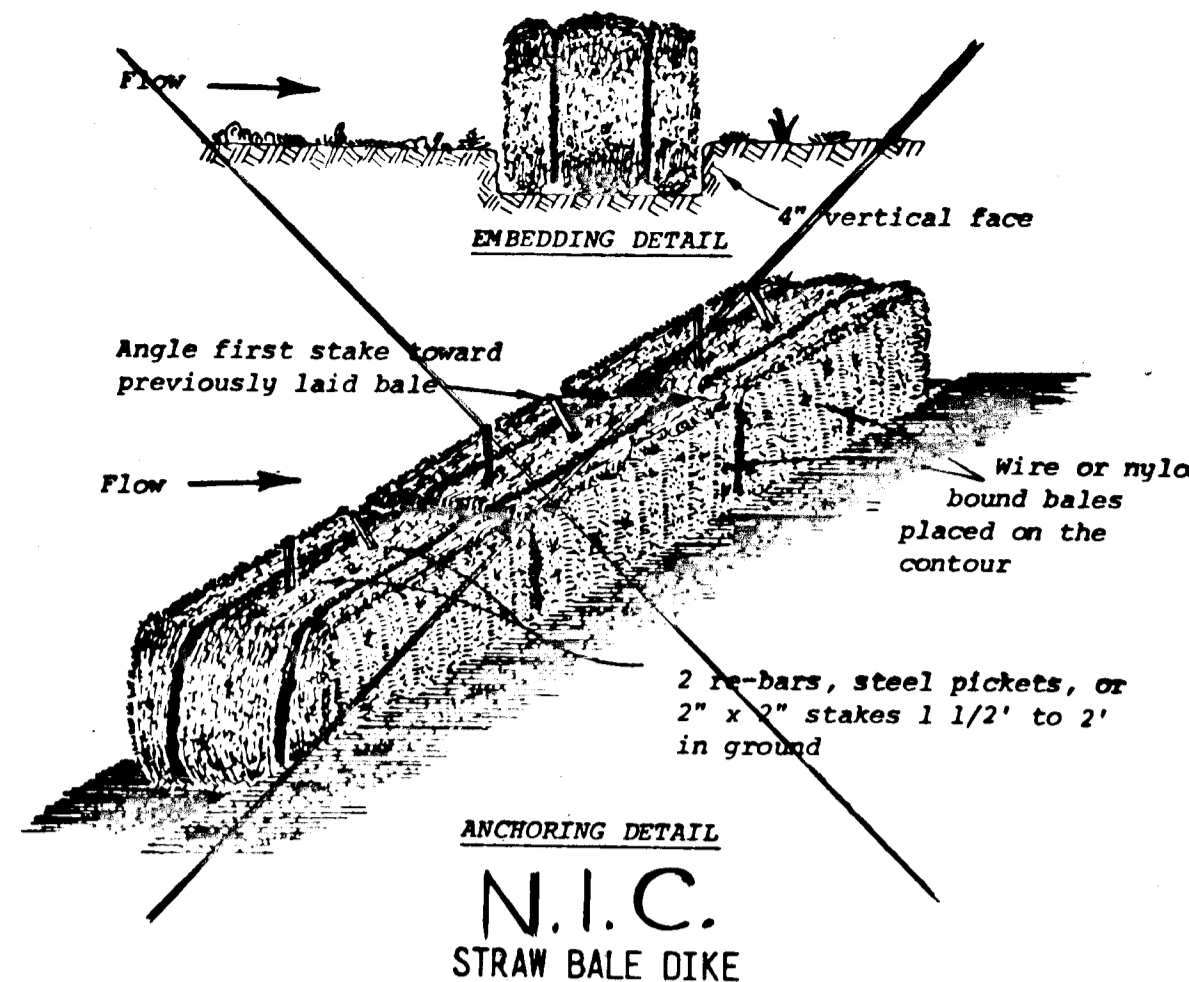
STORM INLET SEDIMENT TRAP



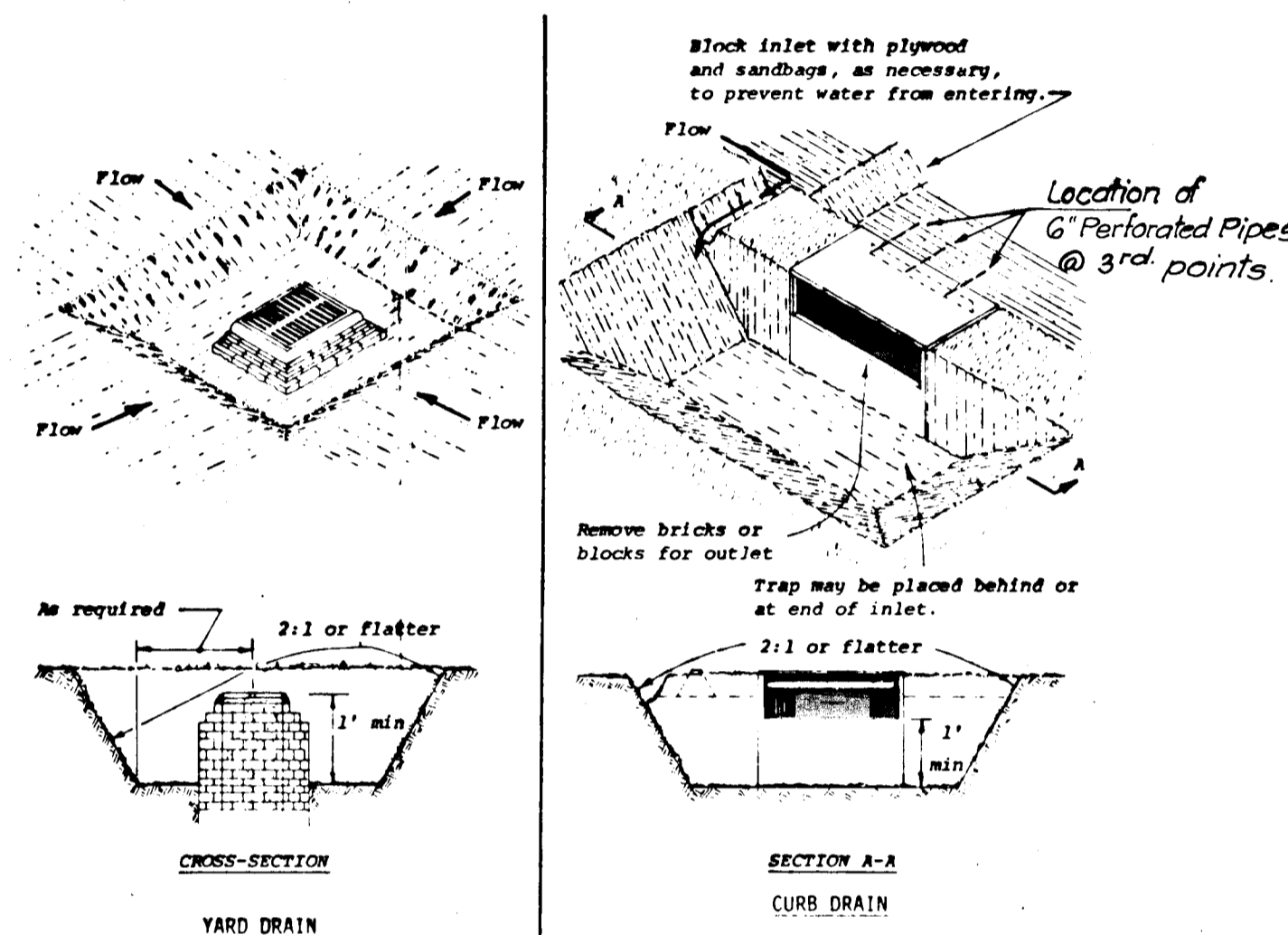
DIVERSION DIKE



INTERCEPTOR DIKE

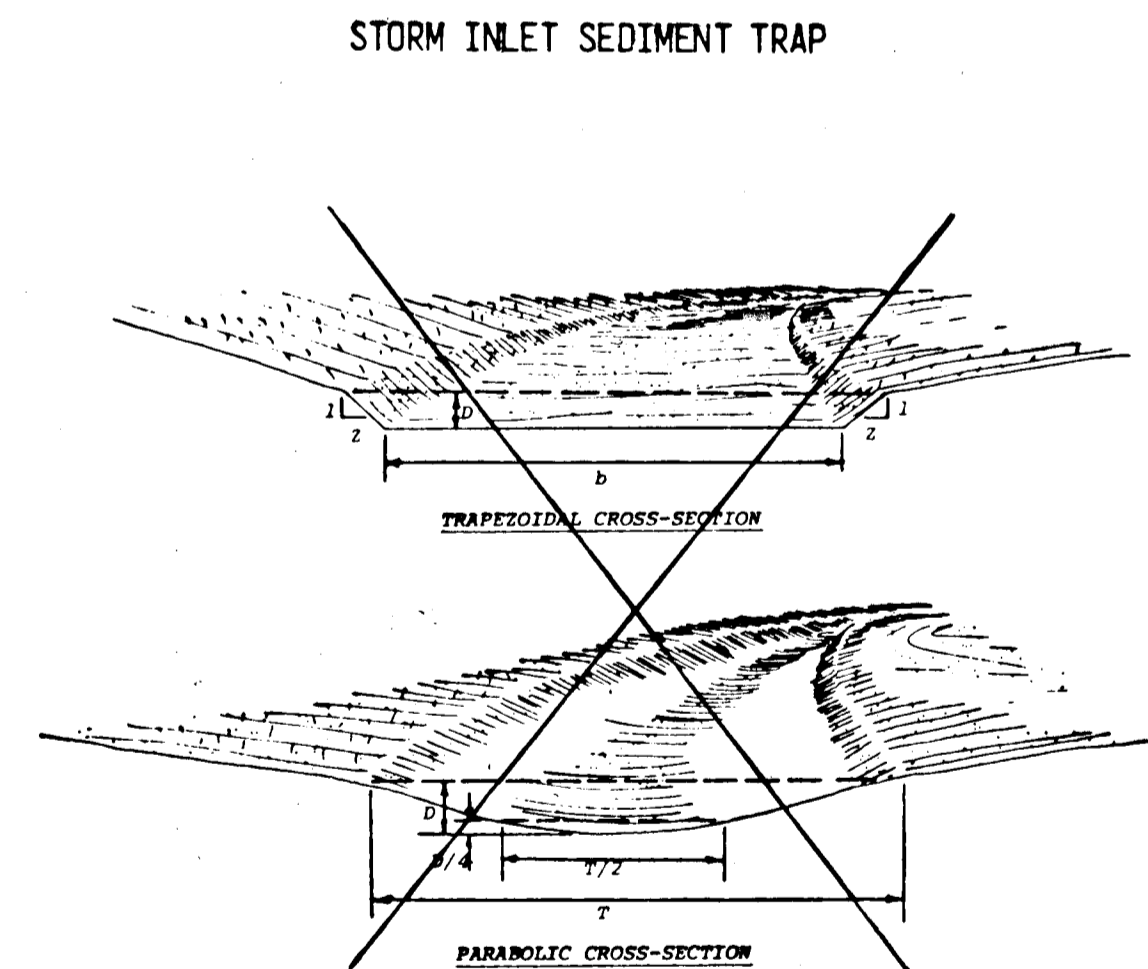


**ANCHORING DETAIL
N.I.C.
STRAW BALE DIKE**

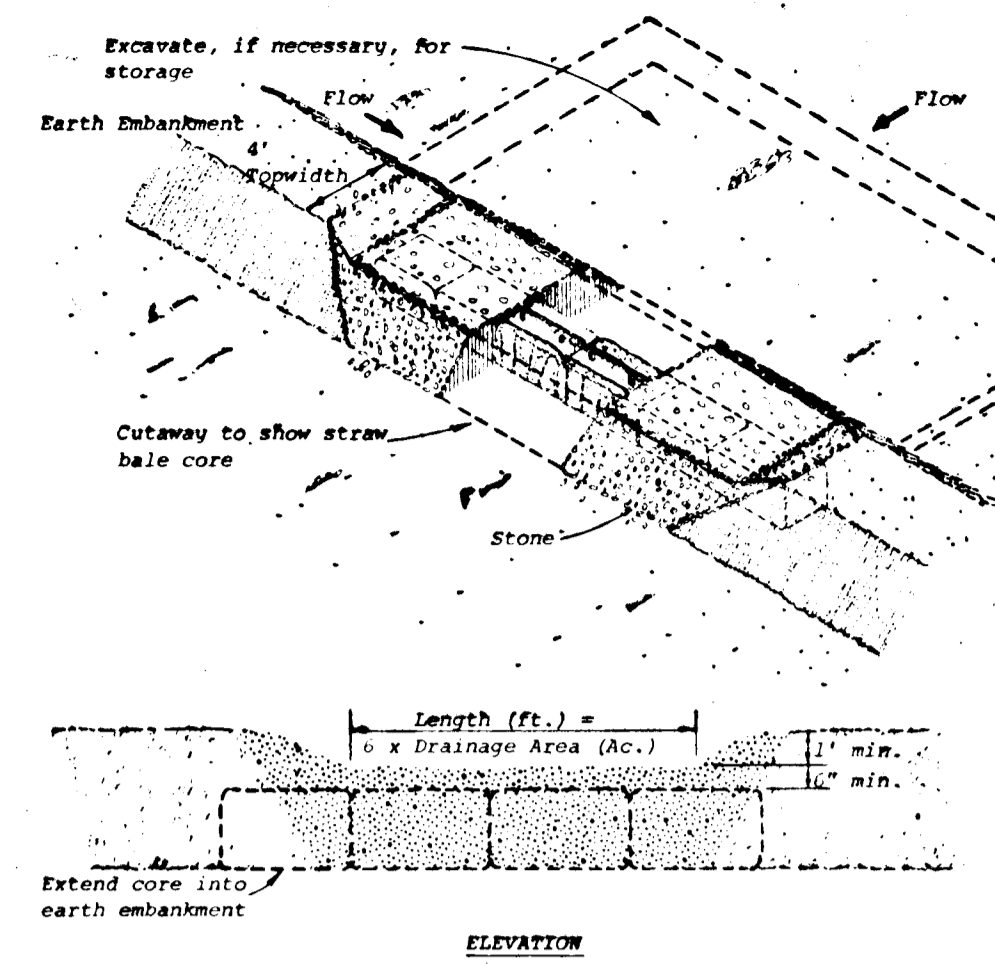


**CROSS-SECTION
YARD DRAIN**

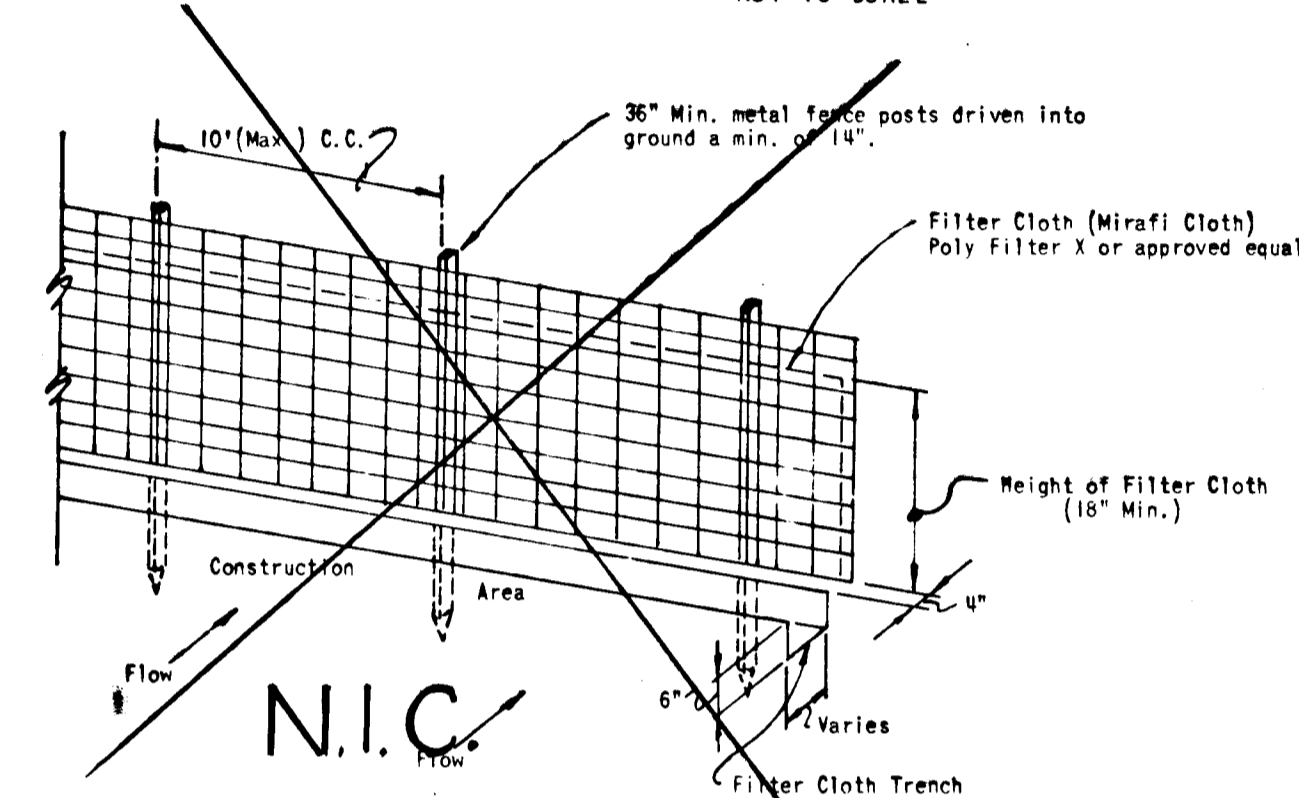
**SECTION A-A
CURB DRAIN**



**N.I.C.
GRASSED WATERWAY**

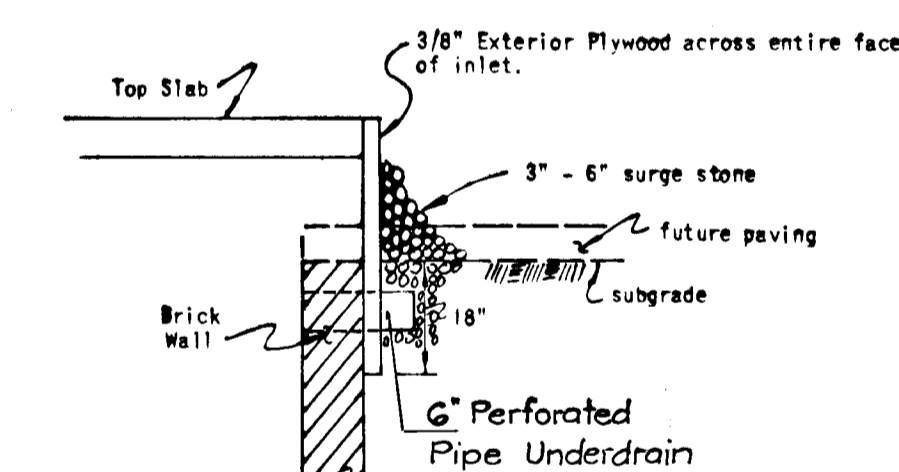


**STONE OUTLET SEDIMENT TRAP
NOT TO SCALE**



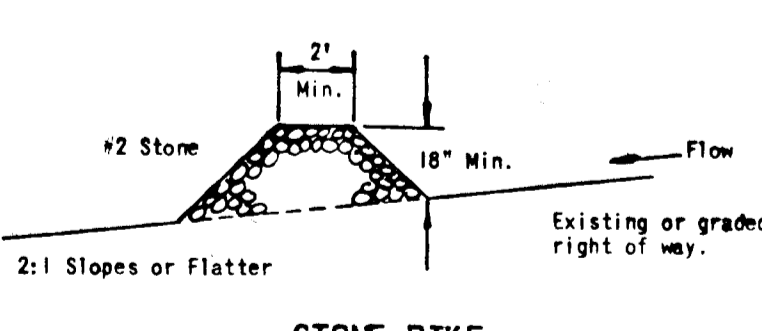
**N.I.C.
SILT FENCE DETAIL
NOT TO SCALE**

- NOTES:**
- Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
 - Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".
 - Silt fence to be placed in lieu of straw bales and diversion dikes at the option of the Developer.



**TYPE A INLET
PROTECTION DETAIL
NOT TO SCALE**

SOIL CONSERVATION SITE ANALYSIS	
TOTAL AREA OF SITE =	33.45 Acres
AREA TO BE GRADED =	3.53 Acres
PAVED =	1.27 Acres
REVEGETATED =	2.26 Acres
UNDISTURBED AREA	20.92 Acres



STONE DIKE

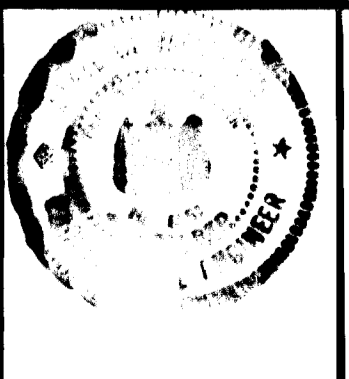
ROUSE CO. BUILDING
COLUMBIA, MD. 21044

COLUMBIA MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.

APPROVED: Department of Public Works.
W.O. Felbat 8-4-78
Chief, Bureau of Engineering
APPROVED: Division of Planning & Zoning
John H. Necker, Jr. 7-24-78
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JOHN H. NECKER, JR.

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Ferdinand C. Provini 1/24/78
FERDINAND C. PROVINI



Reviewed for Howard County Soil Conservation District and meets Technical Requirements.
C. Wayne Ray 7-21-78
U.S. Soil Conservation District Date
This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District
Robert W. Rehm 7-21-78
District Coordinator Date
Howard Soil Conservation District

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ENGINEERS · ARCHITECTS · PLANNERS · SURVEYORS
6715 KENILWORTH AVE., RIVERDALE, MD.
301/277-2121 20840

TOWN CENTER
SECTION 9 AREA 1
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DESIGN	SCALE 1" = 50'
DRAWN	SHEET No. 4 OF 4
T.J.W. CHECKED	182627
Jan. 1978 DATE	182627 JOB No.
	5216-X-05-04 FILE No.