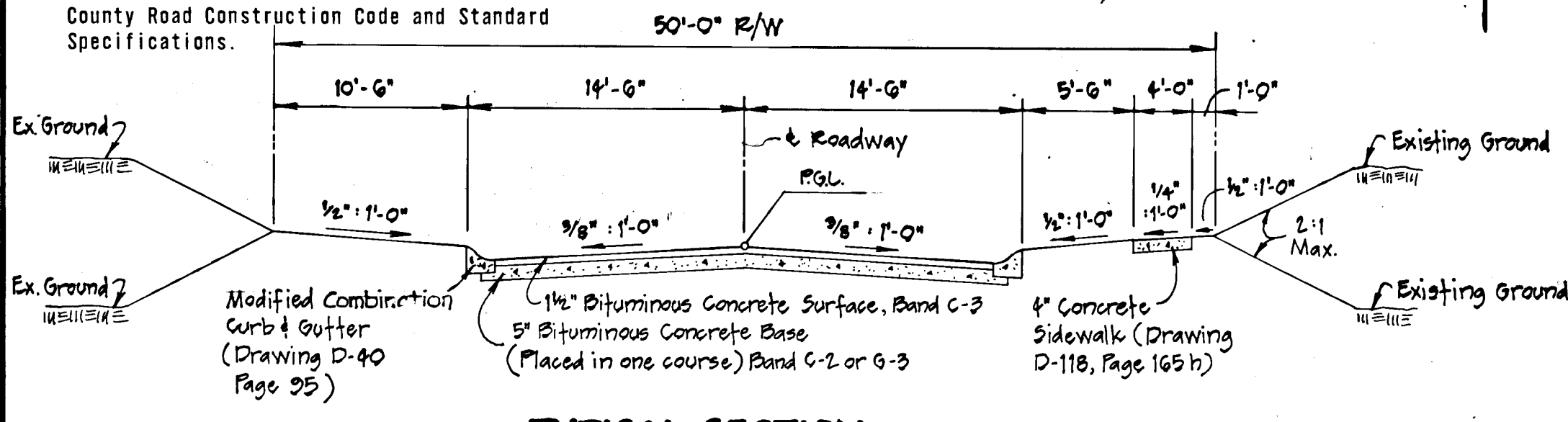


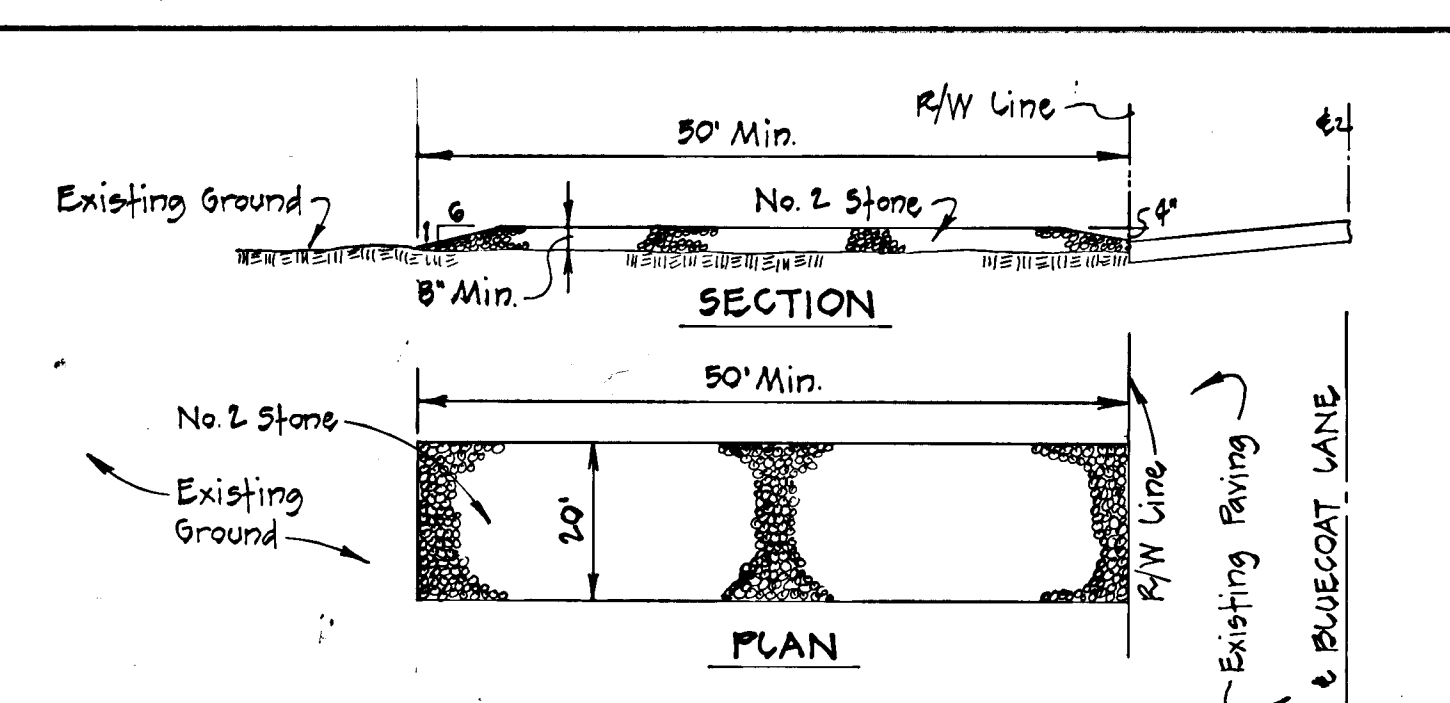
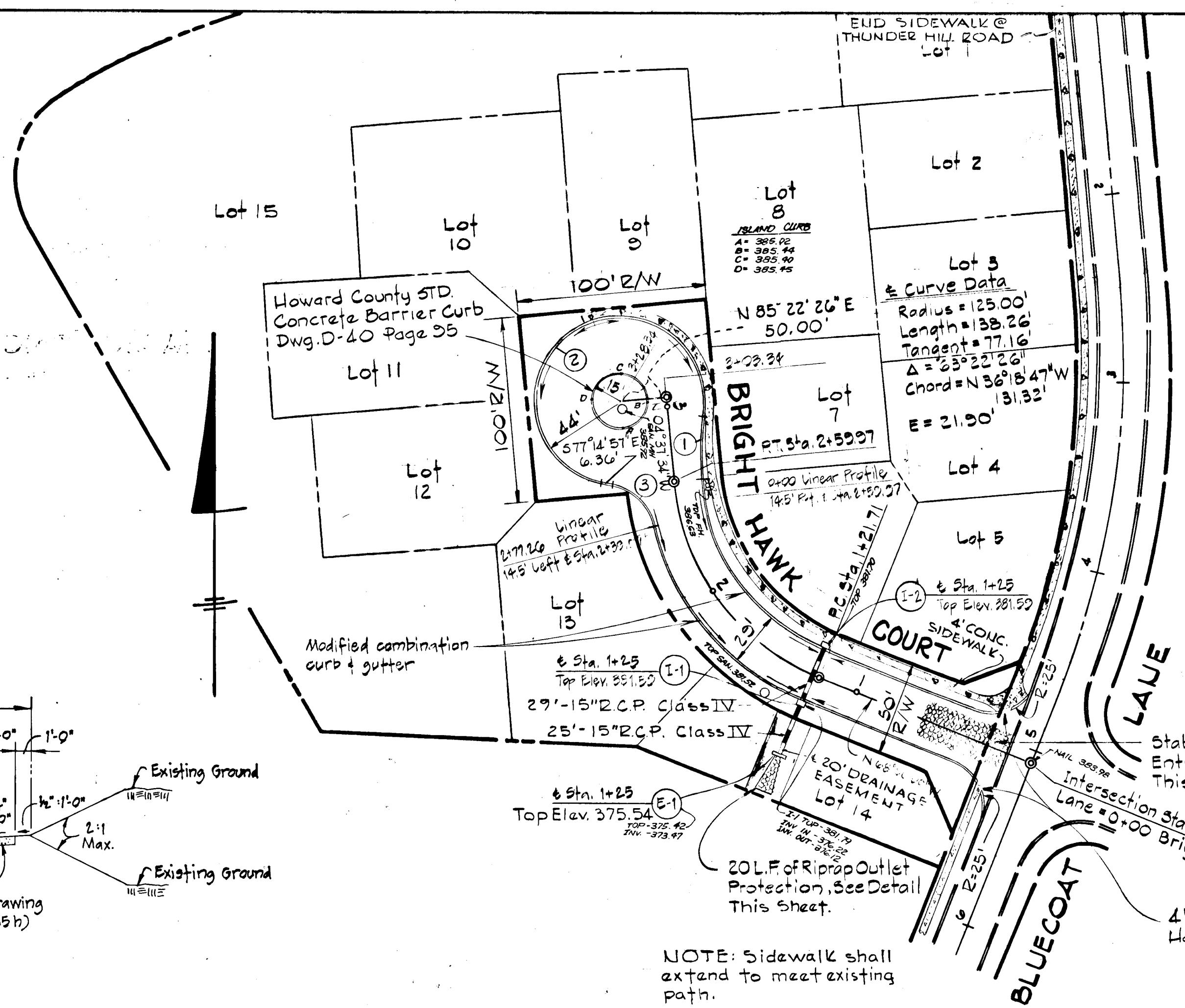
RIPRAP OUTLET CHANNEL
Not to Scale

- NOTE:
- Tack Coat in accordance with Section C-31.4 of The Howard County Road Construction Code and Standard Specifications.
 - Base will be primed in accordance with Section C-30.30 of The Howard County Road Construction Code and Standard Specifications.

BRIGHT HAWK COURT
Design Speed 30 mph Zoned NT (SFMD)



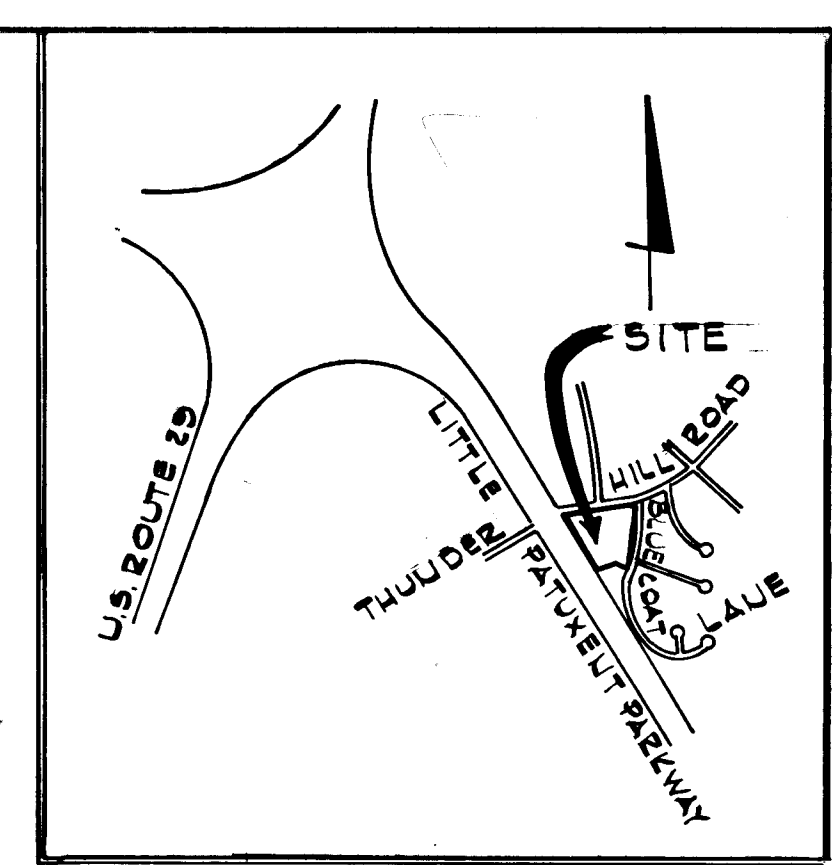
TYPICAL SECTION
Not to Scale



STABILIZED CONSTRUCTION ENTRANCE
Not to Scale

LINEAR PROFILE CURVE DATA

①	L = 34.65'
	Δ = 0° 55' 36"
	R = 200'
②	L = 200.86'
	Δ = 261° 32' 50"
	R = 44'
③	L = 35.30'
	Δ = 70° 31' 44"
	R = 28.75'



VICINITY MAP
SCALE: 1" = 1600'

NOTE: Sidewalk shall extend to meet existing path.

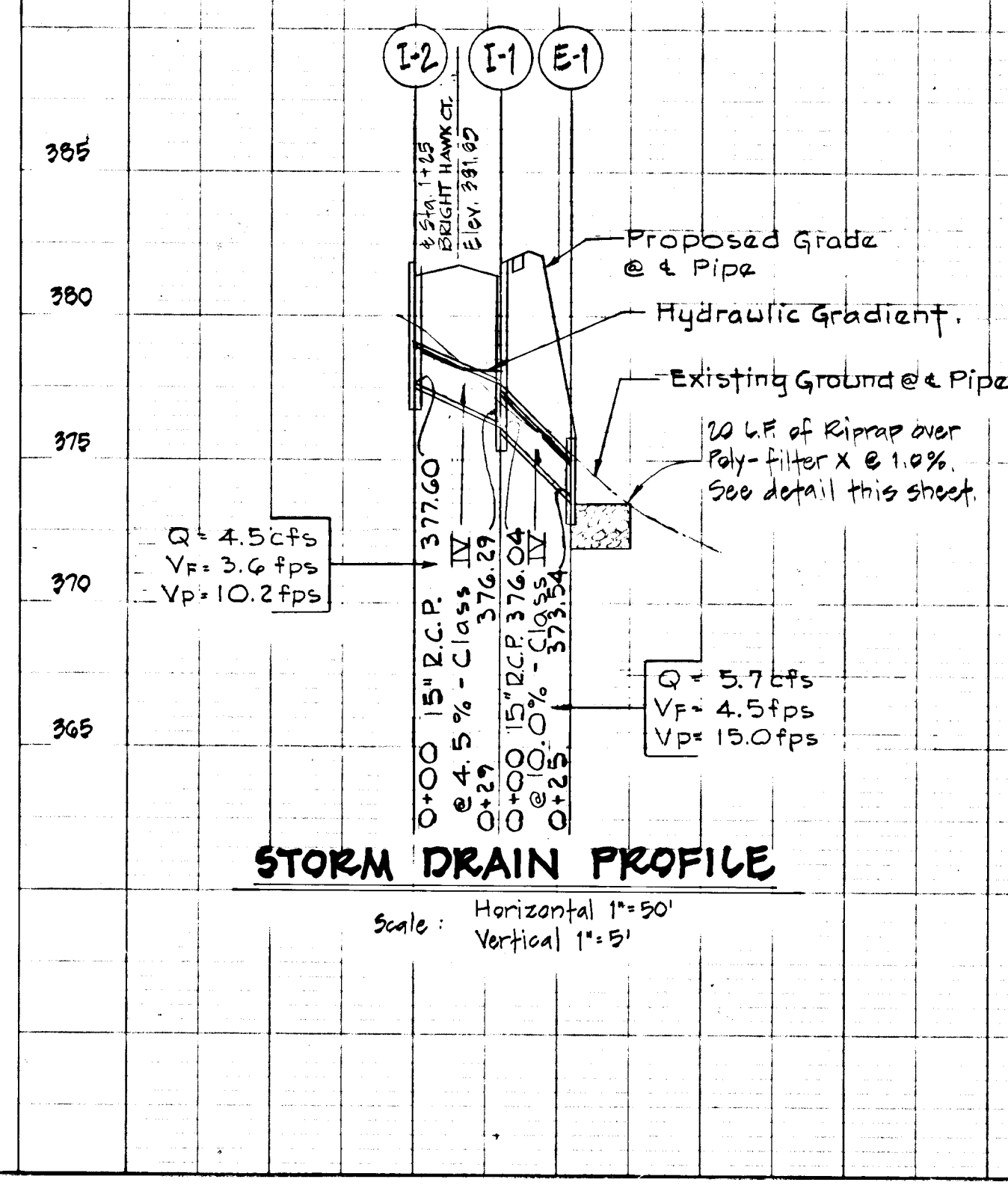
AS-BUILT - JULY 9 1977
AS-BUILT INFORMATION CERTIFIED BY
MALCOLM HUCKINS, LAND SURVEYOR
NO. 5095

STRUCTURE SCHEDULE

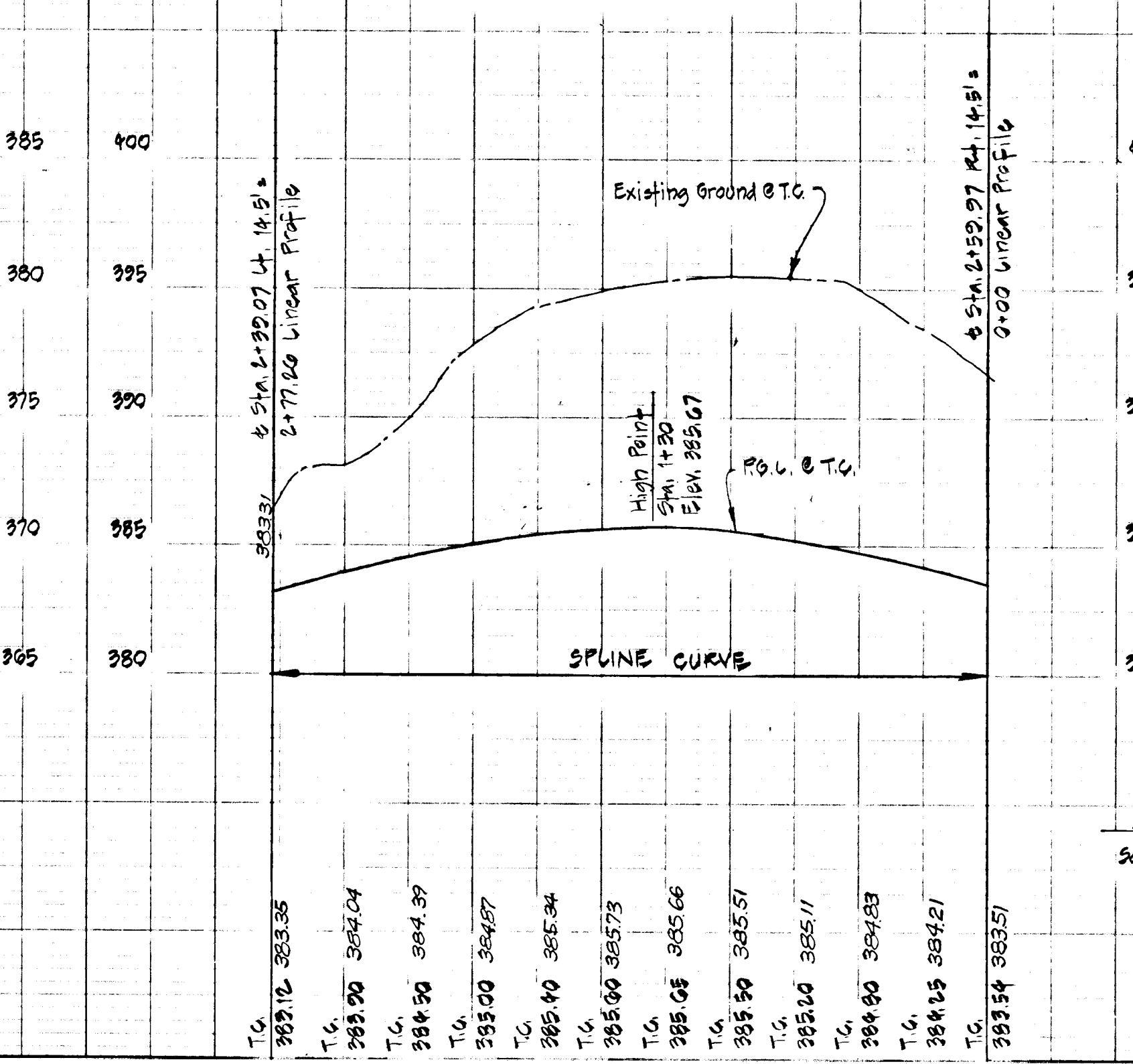
No.	Type	Inv. In	Inv. Out	Top Elev.	Remarks
I-2	A-5		377.60	381.50	Dwg. 64-A P. 118-A
I-1	A-5	376.20	376.84	381.50	Dwg. 64-A P. 118-A
E-1	Std. Type C Endwall		378.34	375.54	Dwg. D-82 P. 107

BRIGHT HAWK COURT LINEAR PROFILE

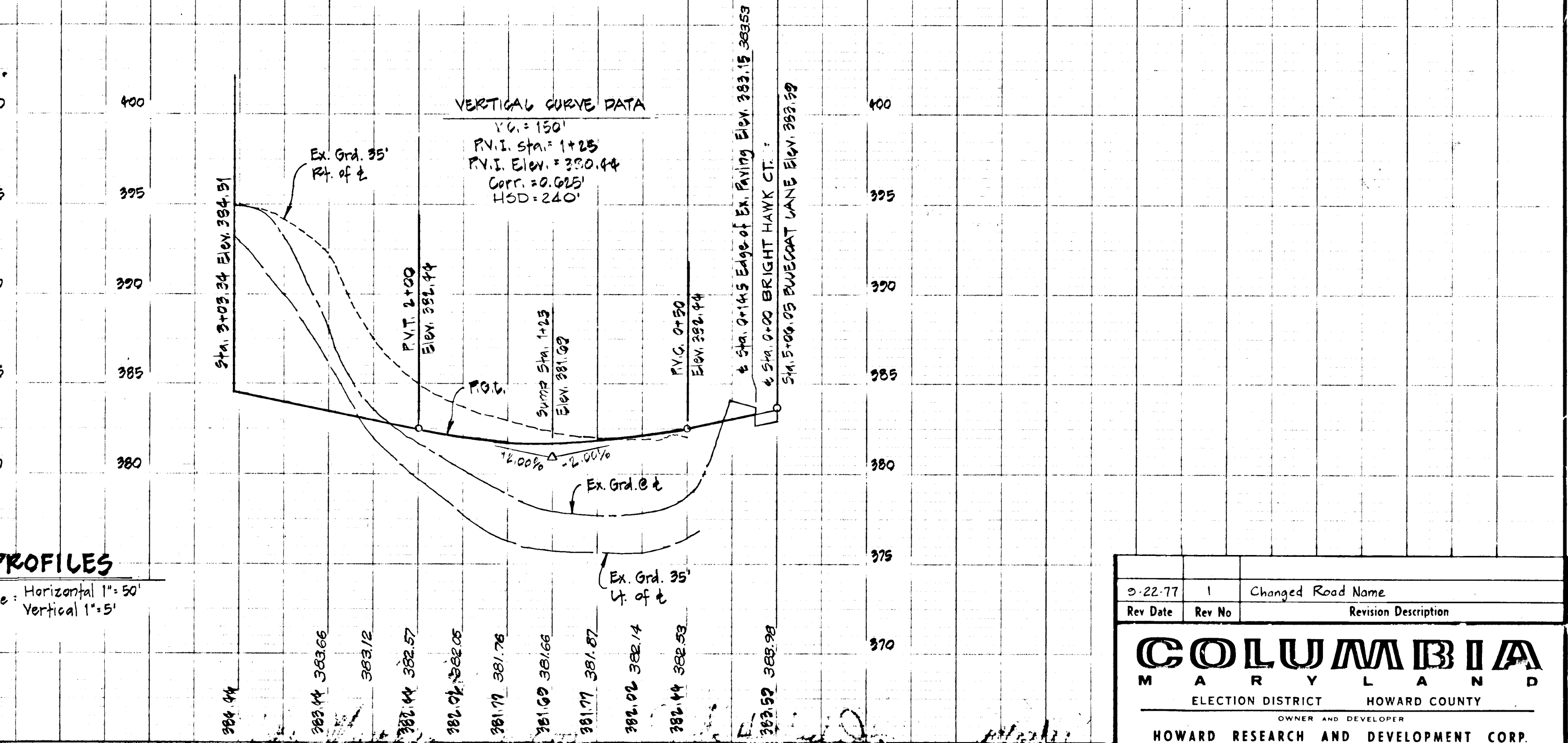
BRIGHT HAWK COURT



STORM DRAIN PROFILE
Scale: Horizontal 1" = 50'
Vertical 1" = 5'



PROFILES
Scale: Horizontal 1" = 50'
Vertical 1" = 5'



APPROVED: Department of Public Works
G. B. McNeel
Chief, Bureau of Highways
11/18/77
Date

APPROVED: Office of Planning & Zoning
John D. McNeel
Chief, Division of Land Development
11-16-77
Date

Reviewed for Howard County Soil Conservation District and meets Technical Requirements.
Walter S. Serna
U.S. Soil Conservation Service
Date 11-16-77
This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

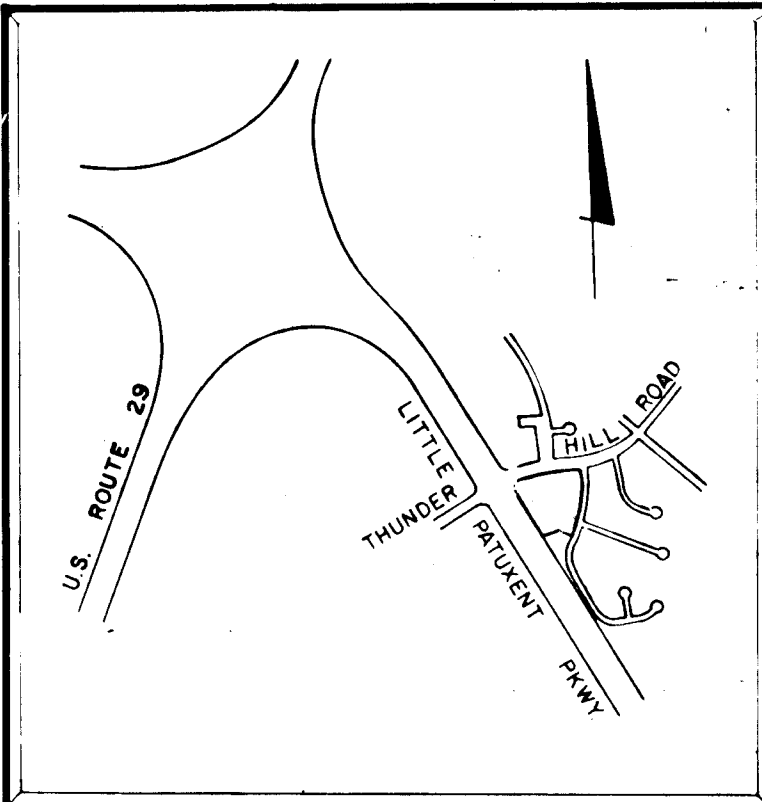
John D. McNeel
District Coordinator
Howard Soil Conservation District
Date 11-16-77

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 are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
Cay G. Weinel, Jr.
Date 10/27/77

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.
Cay G. Weinel, Jr.
Date 10/3/77
Cay G. Weinel, Jr. Reg. No. 8182

PURDUM & JESCHKE
CIVIL ENGINEERS
LAND SURVEYORS
1023 N. Calvert St.
Baltimore, Maryland 21202

0-22-77	1	Changed Road Name
Rev Date	Rev No	Revision Description
COLUMBIA MARYLAND		
ELECTION DISTRICT HOWARD COUNTY		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYLAND		
PROJECT AREA	VILLAGE OF OAKLAND MILLS SECTION 3 - THUNDER HILL AREA 3 6th Election District Howard County, Maryland	
PROJECT TITLE	PLAN, PROFILE & DETAILS BRIGHT HAWK COURT	
Des. By	E. B. Walsh	Scale As Noted
Drawn By	R. E. Curtis	Date July 26, 1977
Checked By	R. B. Carter	Approved
Dwg. No.	1 of 3	
C.C.F. No.		



VICINITY MAP
SCALE 1" = 1600'

GENERAL NOTES

- All construction shown hereon shall be in accordance with the "Howard County Road Construction Code and Standard Specifications" dated November 17, 1962 and revised August, 1967.
- Drawing and page numbers referenced hereon are taken from the above mentioned Road Construction Code and Standard Specifications.
- 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."
- Contractor shall call Miss Utility (559-0100) a minimum of 3 days in advance of construction operation.
- Design Speed - 30 MPH
- The open end of all storm drain pipes must be capped at the end of each day with plywood sheathing and held in place by sand bags or other approved method.
- A grading plan must be developed by the builder and approved before a building permit can be issued.

CONSTRUCTION SEQUENCE

- Obtain grading permit.
- Construct stabilized construction entrance, perimeter dike and sediment trap.
- Place roadway to subgrade.
- Construct storm drain system and block inlet openings.
- Stabilize cut and fill slopes using temporary seeding. See Sediment Control Notes.
- Lay pavement courses and modified combination curb & gutter.
- Fine grade slopes between curb and property lines.
- Construct sidewalk.
- Stabilize with permanent seeding. See Sediment Control.
- Dress roadway supporting slopes and stabilize with permanent seeding.
- Remove sediment control measures.

SITE ANALYSIS

- Total Area of Site..... 4.7 Ac.±
- Area to be Graded..... 4.7 Ac.±
- Area to be Paved..... 0.4 Ac.±
- Area to be Vegetated..... 4.3 Ac.±
- Undisturbed Area..... 0 Ac.±

Notes

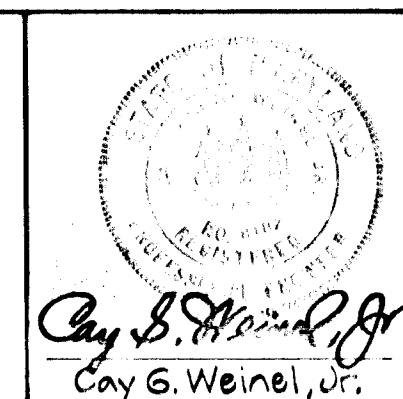
- Area of Buildable Lots 0.520 Ac.±
- Area of Public R/W 0.506 Ac.±
- Area of Non-buildable Lots 1.677 Ac.±
- Total Area of Tract 4.703 Ac.±
- No of Lots 15
- Present Zoning New Town
- Use Single Family Medium Density (Residential)
- Tax Map Number 30
- Parcel Number Part of Parcel 71

LEGEND

- Ex Sewers
- Ex Storm Drains
- Ex Water
- Ex Contours
- Ex Curb & Gutter

PURDUM & JESCHKE
CONSULTING ENGINEERS
& LAND SURVEYORS

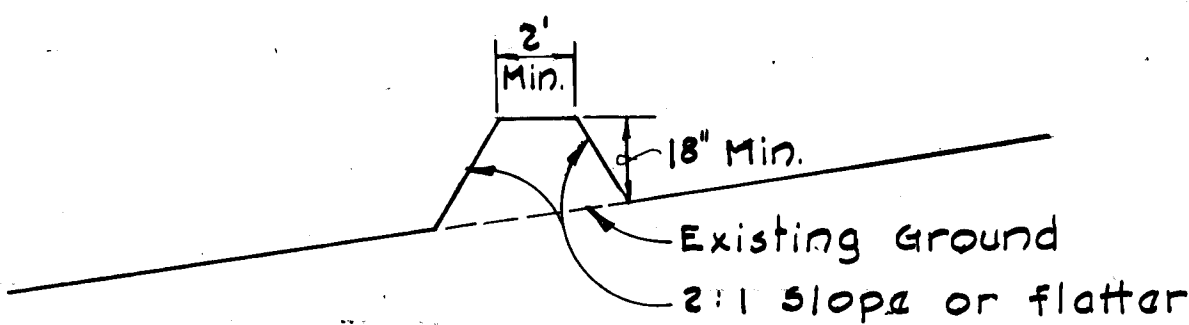
1023 NORTH CALVERT STREET
BALTIMORE, MARYLAND 21202



Cay G. Weinel, Jr.
Professional Engineer

PERIMETER DIKE DETAIL

No Scale



SEDIMENT CONTROL NOTES

- The developer shall notify the Howard County Office of Inspection and Permits at least 24 hours prior to beginning any construction shown hereon (465-5000 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 (465-5000 Ext. 365).
- 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 3/4 tons/acre.
 - Supper 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

CURVE DATA SCHEDULE

FROM	TO	RADIUS	LENGTH	Δ	TANGENT	CHD. BRG. & DIST.
1	2	477.44'	11.89'	01°25'36"	5.94'	N 84°39'38" E 11.89'
3	4	25.00'	39.27'	90°00'00"	25.00'	S 49°37'34" E 35.36'
5	6	397.60'	184.77'	26°37'34"	94.03'	S 08°41'13" W 183.11'
10	11	50.00'	78.54'	90°00'00"	50.00'	N 15°28'01" E 70.71'
12	1	477.44'	195.66'	23°28'49"	99.22'	N 72°12'25" E 194.29'
12	2	477.44'	207.55'	24°54'25"	105.44'	N 72°55'13" E 205.92'

COORDINATE SCHEDULE

NO.	NORTH	EAST
1	505,056.89	846,099.05
2	505,058.00	846,110.89
3	505,081.39	846,399.94
4	505,058.48	846,426.88
5	504,875.52	846,441.69
6	504,694.51	846,414.03
7	504,583.25	846,369.08
8	504,648.26	846,208.17
9	504,655.89	846,038.62
10	504,924.43	845,886.48
11	504,992.58	845,905.34
12	504,997.52	845,914.05

Note: Coordinates shown hereon are based on the Maryland State Grid System.

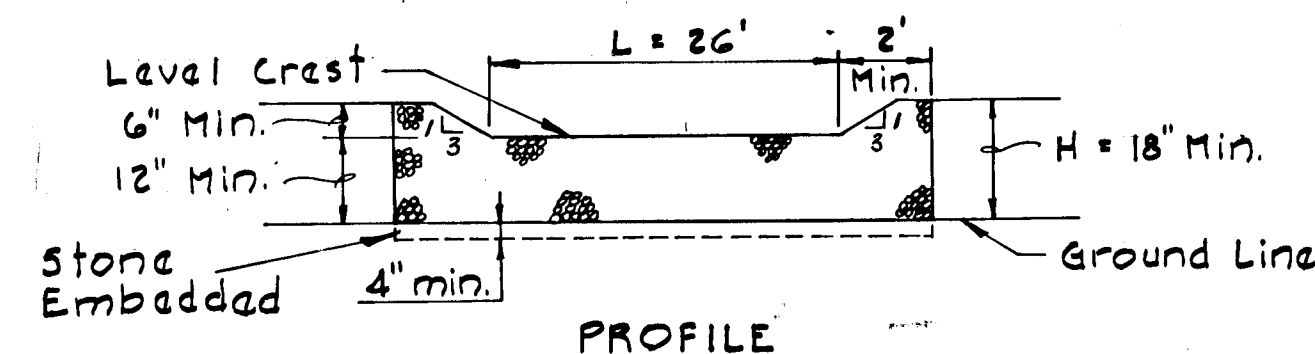
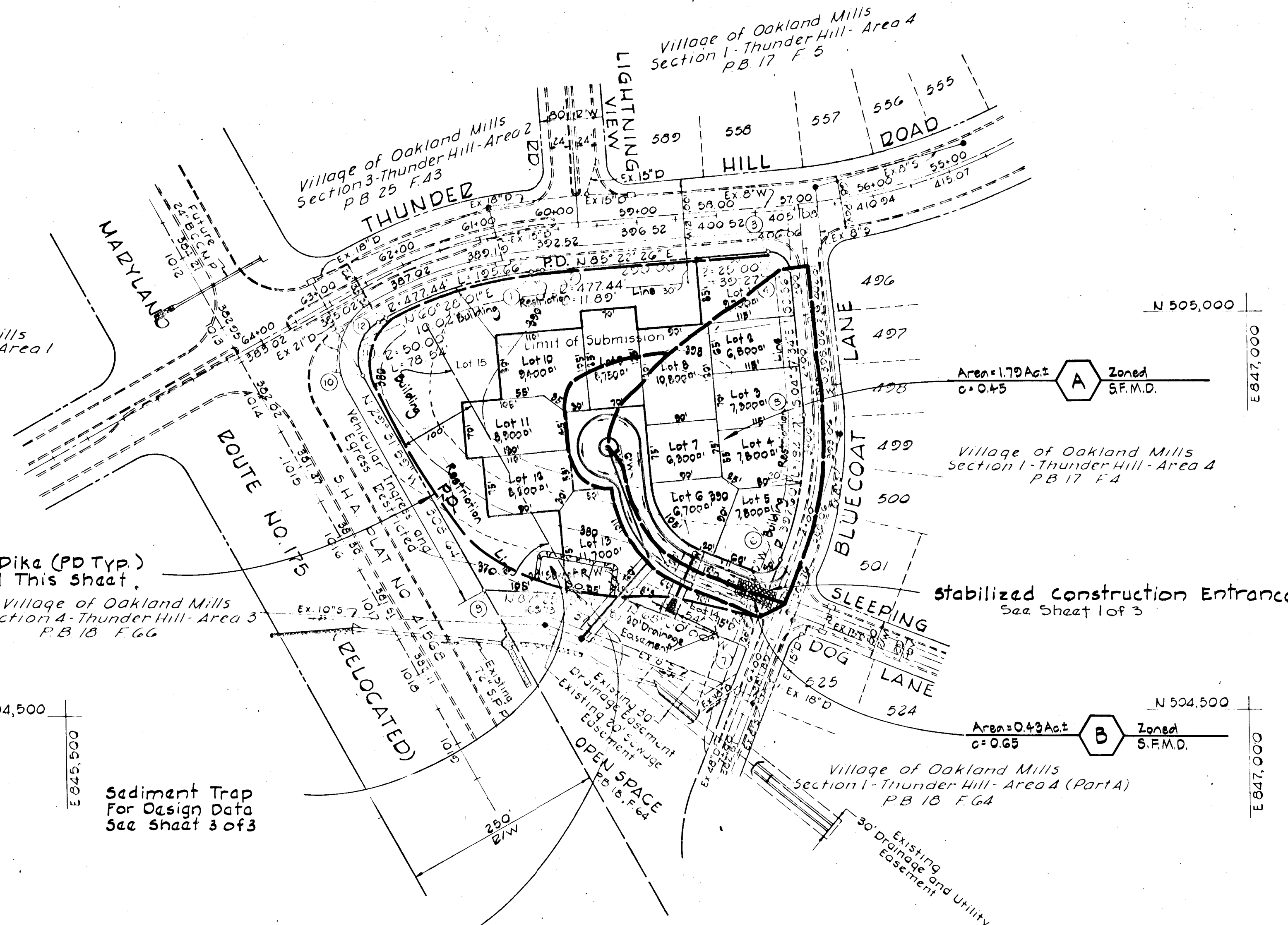
Village of Oakland Mills
Section 3 - Thunder Hill - Area 2
(Future)

Perimeter Dike (PD Typ.)
See Detail This Sheet.

Village of Oakland Mills
Section 4 - Thunder Hill - Area 3
P.B. 13 F.G.G.

Sediment Trap
For Design Data
See Sheet 3 of 3

stone Outlet structure
See Detail This Sheet



STONE OUTLET STRUCTURE DETAIL

No Scale

APPROVED: Department of Public Works
[Signature] 11/18/77
Chief, Bureau of Highways Date

APPROVED: Office of Planning and Zoning
[Signature] 11-16-77
Chief, Division of Land Development Date

Reviewed for Howard County Soil Conservation District and meets Technical Requirements.
[Signature] 11-6-77
U.S. Soil Conservation District Service Date

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
[Signature] 11-16-77
District Coordinator Date
Howard Soil Conservation District

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.
[Signature] 10/27/77
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.
[Signature] 8/3/77
Cay G. Weinel, Jr. Reg. No. 8182 Date

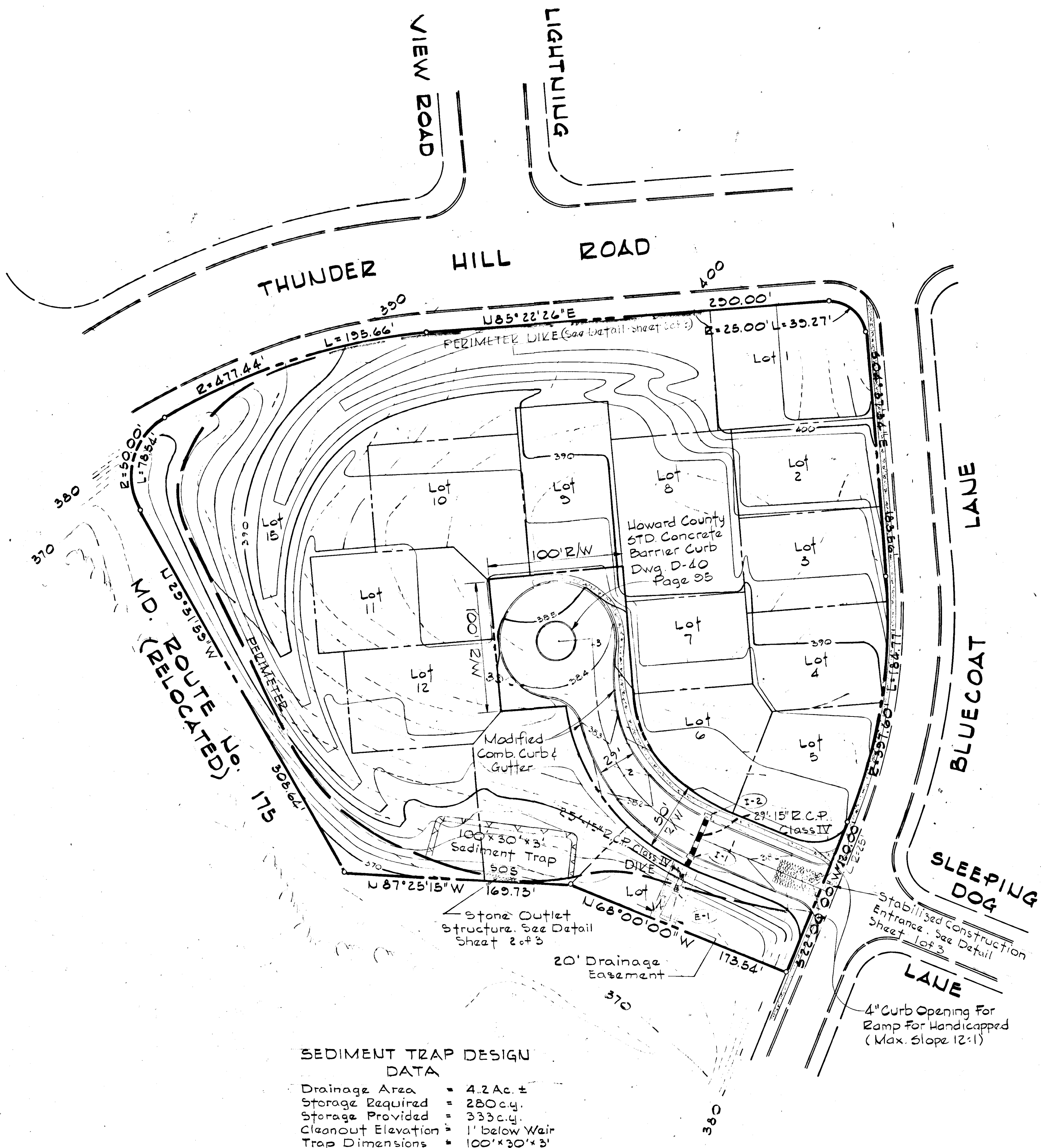
Rev Date	Rev No	Revision Description

COLUMBIA
MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
COLUMBIA, MARYLAND 21044

PROJECT AREA
VILLAGE OF OAKLAND MILLS
SECTION 3 THUNDER HILL AREA 3
6th ELECTION DISTRICT HOWARD COUNTY, MD.

PROJECT TITLE
SEDIMENT CONTROL AND DRAINAGE AREA MAP

Des. By: E.B.W. Scale: 1" = 100' Date: No. 2 of 3
Dra. By: A.J.Y. Date: JULY 26, 1977 C.C.I. No.
Chk. By: R.B.C. Approved



SEDIMENT TRAP DESIGN DATA

- Drainage Area = 4.2 Ac. ±
- Storage Required = 280 cu. y.
- Storage Provided = 333 cu. y.
- Cleanout Elevation = 1' below Weir
- Trap Dimensions = 100' x 30' x 3'

Rev Date	Rev No	Revision Description
6/22/77	1	ADJUST GRADES ON LOT 8
COLUMBIA MARYLAND ELECTION DISTRICT HOWARD COUNTY <small>OWNER AND DEVELOPER</small> HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYLAND		
PROJECT AREA	VILLAGE OF OAKLAND MILLS SECTION 3 THUNDER HILL AREA 3 6th ELECTION DISTRICT HOWARD COUNTY, MD.	
PROJECT TITLE	SEDIMENT CONTROL & GRADING PLAN	
Des. By	E.B.W.	Scale 1"=50'
Drn. By	R.A.Z.	Date 6/1/77
Chk. By	R.B.C.	Approved
Dwg. No.	3 of 3	C.C.F. No.

APPROVED: Department of Public Works. Chief, Bureau of Highways Date: 11/18/77	Reviewed for Howard County Soil Conservation District and meets Technical Requirements. U.S. Soil Conservation District Service Date: 11/11/77 This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District. District Coordinator Howard Soil Conservation District Date: 11-16-77	DEVELOPER'S CERTIFICATE I certify that all development and 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. Date: 10/18/77	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. Cay G. Weinel, Jr. Reg. No. 8182 Date: 8/3/77
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