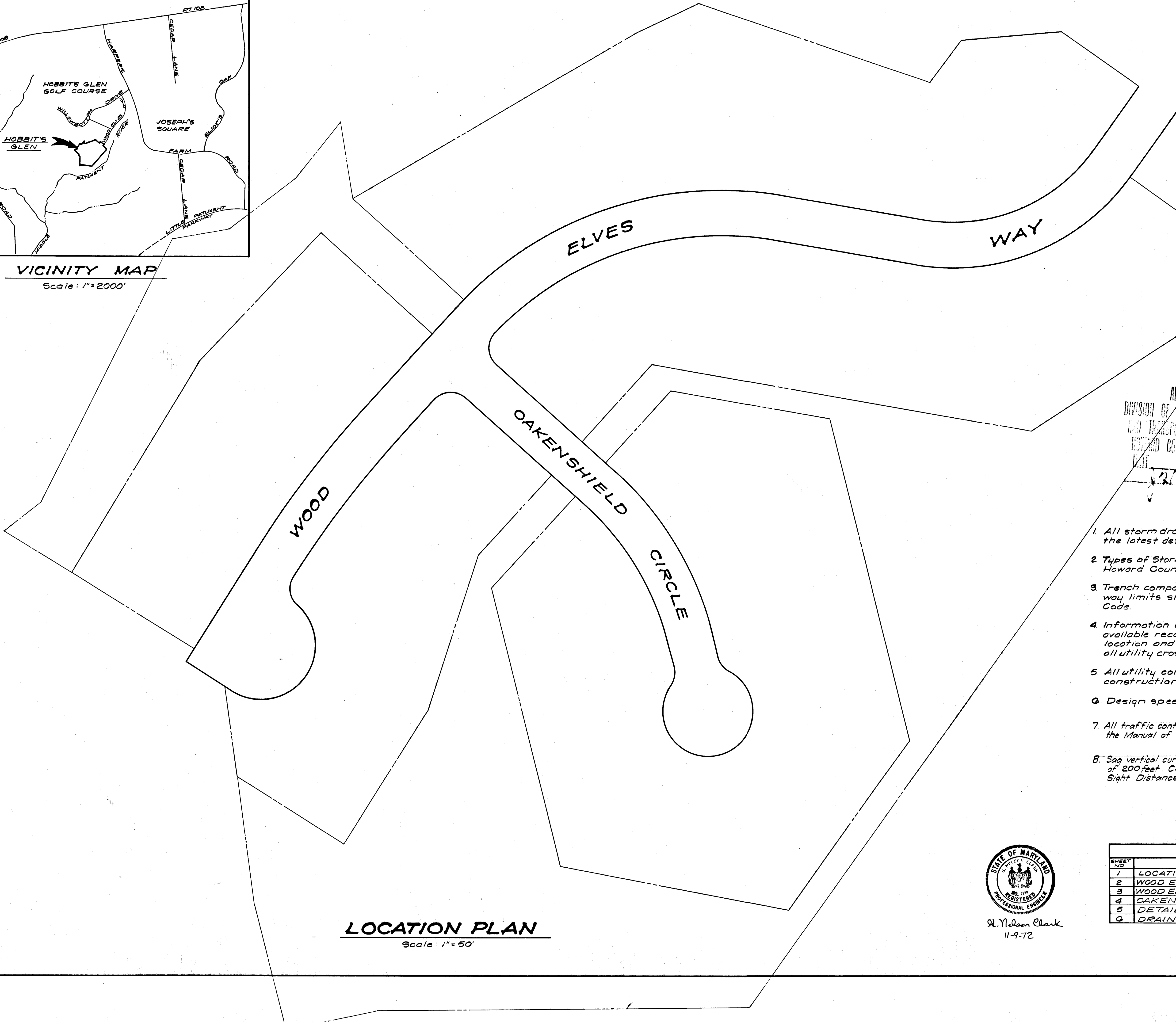


VICINITY MAP
Scale: 1"=2000'



LOCATION PLAN
Scale: 1"=50'

APPROVED BY: B. P. McKeand 3/23/73
 Chief, Bureau of Highways
 APPROVED HOWARD CO OFFICE OF PLANNING & ZONING:
J. H. Clouston 3/19/73
 Director of Planning & Zoning

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT CORP.
 Street Building - Second Floor
 Columbia, Maryland 21004

PROJECT:
 VILLAGE OF HARPER'S CHOICE - SEC. 2 AREA 5
 A Resubdivision Of Lot 25 - SEC 2 AREA 2

PROJECT TITLE: **STORM DRAIN & PAVING PLAN**
LOCATION PLAN

Des. By: DAB	Scale As Shown	Dwg. No. 1 of 6
Drn. By: Suzon	Date Nov, 1972	C.C.F.N.P.
chk. By: GNC	Approved	

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 1111 W. HAMPSHIRE AVENUE • SILVER SPRING, MARYLAND 20904
 Rev. Dec., 1972

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TERRITORIAL PLANNING
 HOWARD COUNTY, MARYLAND
 DATE: 2/23/73
J. H. Clouston

GENERAL NOTES

- All storm drain and paving shall be constructed in accordance with the latest details and specifications of Howard County.
- Types of Storm Drain Structures refer to the standard details of Howard County.
- Trench compaction for storm drains within road or street right of way limits shall be in accordance with latest Howard County Road Code.
- Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elevation of the mains by digging test pits by hand at all utility crossings, well in advance of construction.
- All utility companies shall be notified 24 hours in advance of construction.
- Design speed 25 m.p.h. on all roads.
- All traffic control services, parking and signing to be done in accordance with the Manual of Uniform Traffic Control Devices, 1971 Edition.
- Sag vertical curves were designed to provide a minimum Headlight Sight Distance of 200 feet. Crest vertical curves were designed to provide a minimum Stopping Sight Distance of 200 feet.

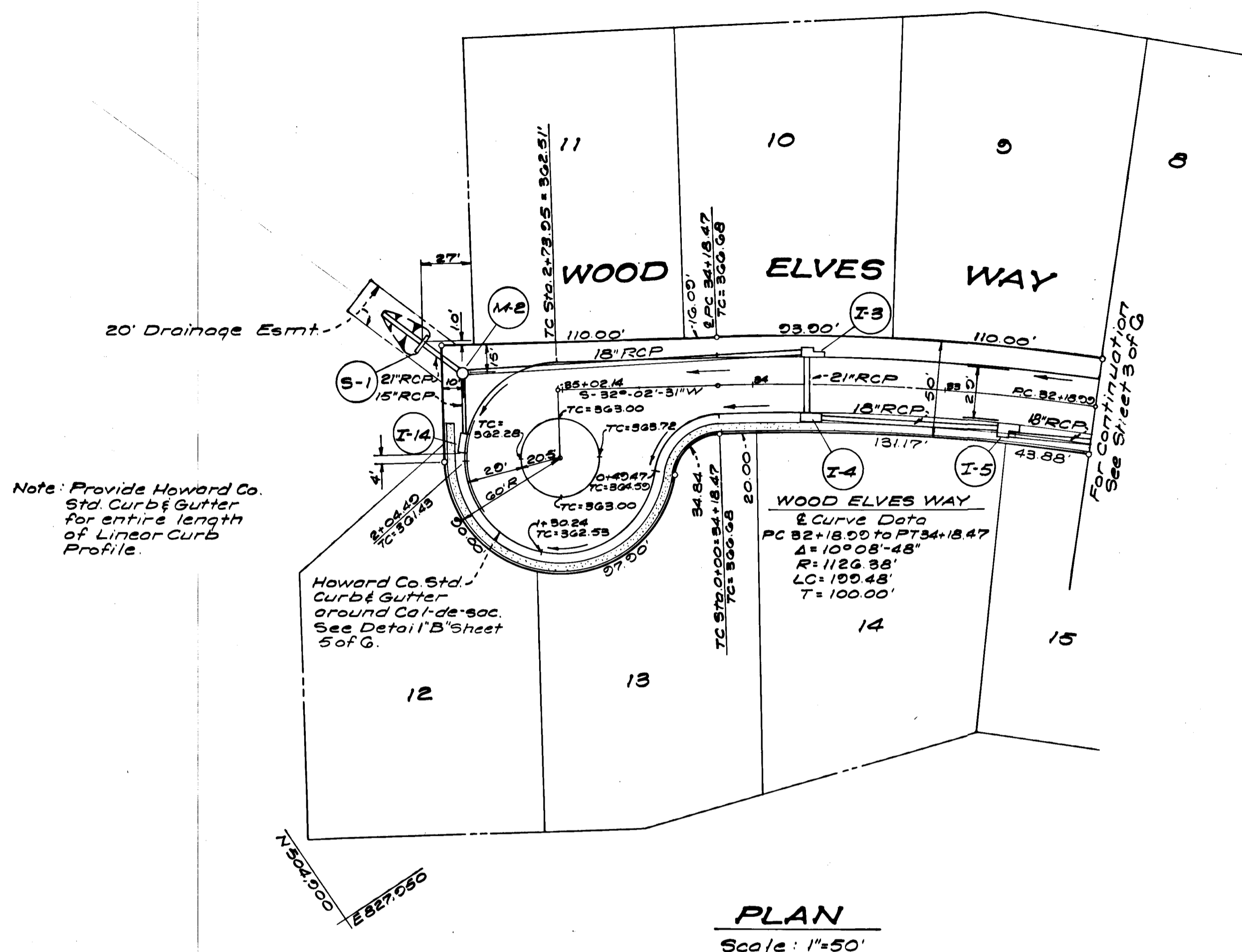


H. Nelson Clark
 11-9-72

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	LOCATION MAP
2	WOOD ELVES WAY - Sta. 32+00 To 35+02.14
3	WOOD ELVES WAY - Sta. 22+54.59 To 32+00
4	OAKENSHIELD CIRCLE
5	DETAILS & PROFILES
6	DRAINAGE AREA MAP

STORM DRAIN STRUCTURE SCHEDULE			
No.	Type	Dwg. No.	Page No.
I-4	Howard Co Std B-Inlet w/4'-0"	24-B	110-B
I-3	" " " " w/4'-0"	24-B	110-B
M-2	" " " B-Manhole		See Plan
S-1	" " " C-Endwall	D-52	107
I-14	" " " A-Inlet w/2'-0"	D-64A	110-A
I-5	" " " B-Inlet w/4'-6"	04-B	110-B

APPROVED: DEPARTMENT OF PUBLIC WORKS
B. N. Reiland 3/23/73
 Chief, Bureau of Highways Date
 APPROVED: HOWARD CO OFFICE OF PLANNING & ZONING
 Chief, Division of Land Development & Transportation Planning Date



PLAN
 Scale: 1"=50'

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT CORP.
 Sterret Building - Second Floor
 Columbia, Maryland 21044

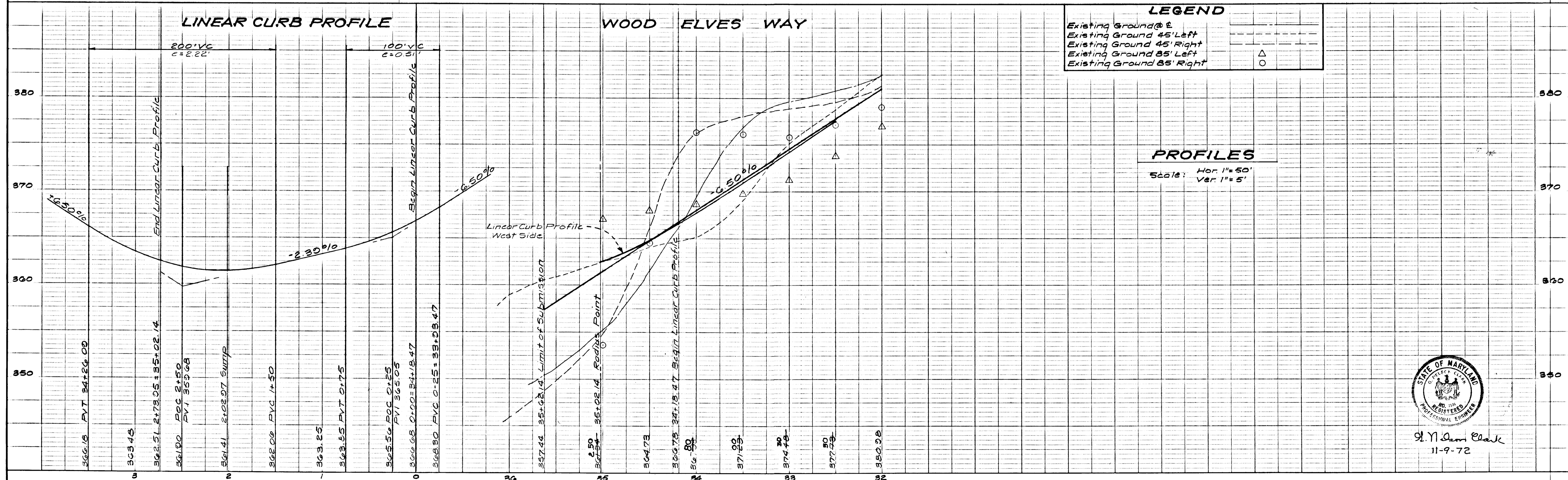
PROJECT:
 VILLAGE OF HARPER'S CHOICE - SEC. 2 AREA 5
 & A Resubdivision Of Lot 25 - SEC. 2 AREA 2

PROJECT TITLE: STORM DRAIN & PAVING PLAN
 WOOD ELVES WAY

Des. By: D.A.B. Scale: As Shown Dwg. No. 2 of 6
 Drn. By: Suzon Date: Nov., 1972 CC FNR
 Chk. By: G.N.C. Approved:

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE: 2/23/73
J. N. Clark

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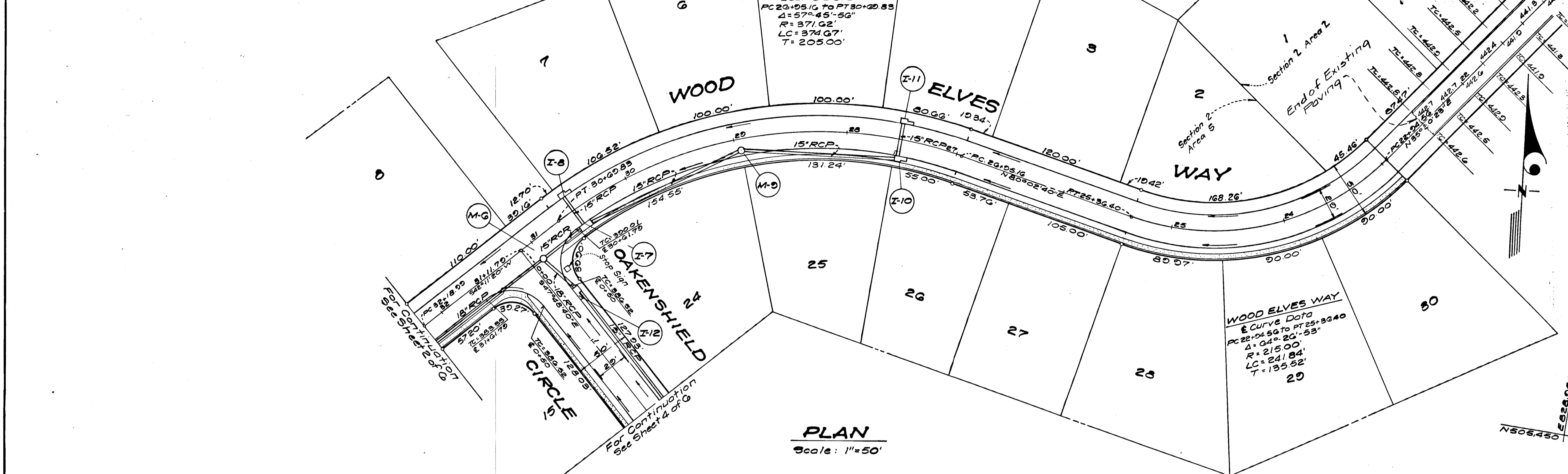
STATE OF MARYLAND
 PROFESSIONAL ENGINEER
J. N. Clark
 11-9-72

No	Type	DWG No	PAGE No	Location
I-11	Howard Co. Std. B-10 Inlet w/ 2' 6"	04-B	110-B	Lower End Inlet 12.70' Right of & Sta. 27+55
I-10	" " " B-10 Inlet w/ 2' 6"	04-B	110-B	" " " " 12.70' Left of & Sta. 27+55
M-9	" " " B-Manhole			& Manhole 10.00' Left of & Sta. 28+05
I-8	" " " B-10 Inlet w/ 2' 6"	04-B	110-B	Lower End Inlet 12.70' Right of & Sta. 30+58.70
I-7	" " " A-10 Inlet w/ 3' 6"	04-A	110-A	" " " " 12.70' Left of & Sta. 30+58.70
M-6	" " " B-Manhole			& Manhole 12.70' Left of & Sta. 30+00
I-12	" " " B-10 Inlet w/ 2' 6"	04-B	110-B	Lower End Inlet 12.70' Left of & Sta. 0+53

APPROVED DEPARTMENT OF PUBLIC WORKS
S. N. Rehland 3/23/73
 Chief, Bureau of Highways Date

APPROVED HOWARD CO OFFICE OF PLANNING & ZONING

 Chief, Division of Land Development & Transportation Planning Date



PLAN
 Scale: 1"=50'

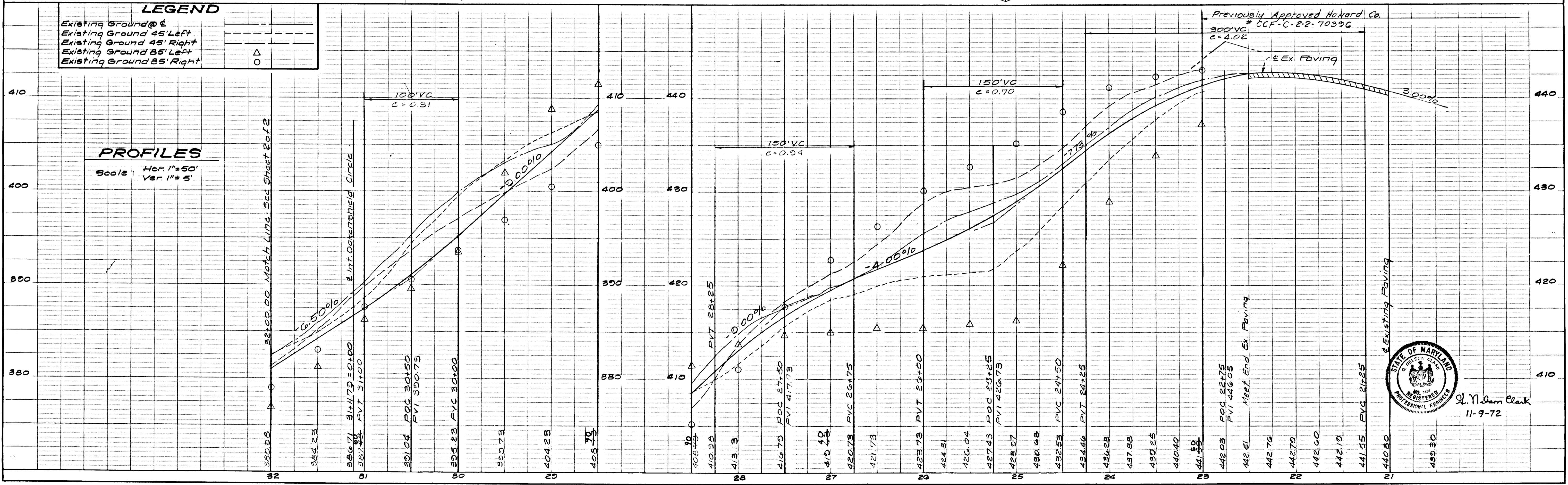
COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT CORP.
 Sterret Building - Second Floor
 Columbia, Maryland 21044

PROJECT:
 VILLAGE OF HARPER'S CHOICE - SEC. 2 AREA 5
 & A RESUBDIVISION OF LOT 25 - SEC. 2 AREA 2

PROJECT TITLE: STORM DRAIN PAVING PLAN
WOOD ELVES WAY

Des. By: D.A.B. Scale: As Shown Dwg. No. 3 of 6
 Dwn. By: Suzan Date: Nov, 1972 C.C.F.N.
 Chk. By: G.N.C. Approved

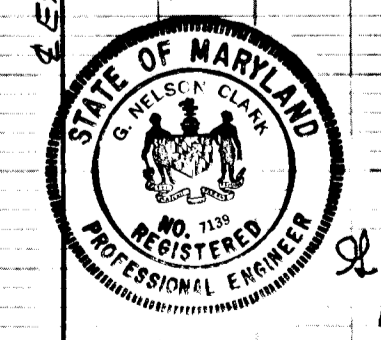
CLARK • FINEFROCK & SACKETT
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 11 G. NEW HAMPSHIRE AVENUE • SILVER SPRING, MARYLAND 20904



PROFILES
 Scale: Hor. 1"=50'
 Ver. 1"=5'

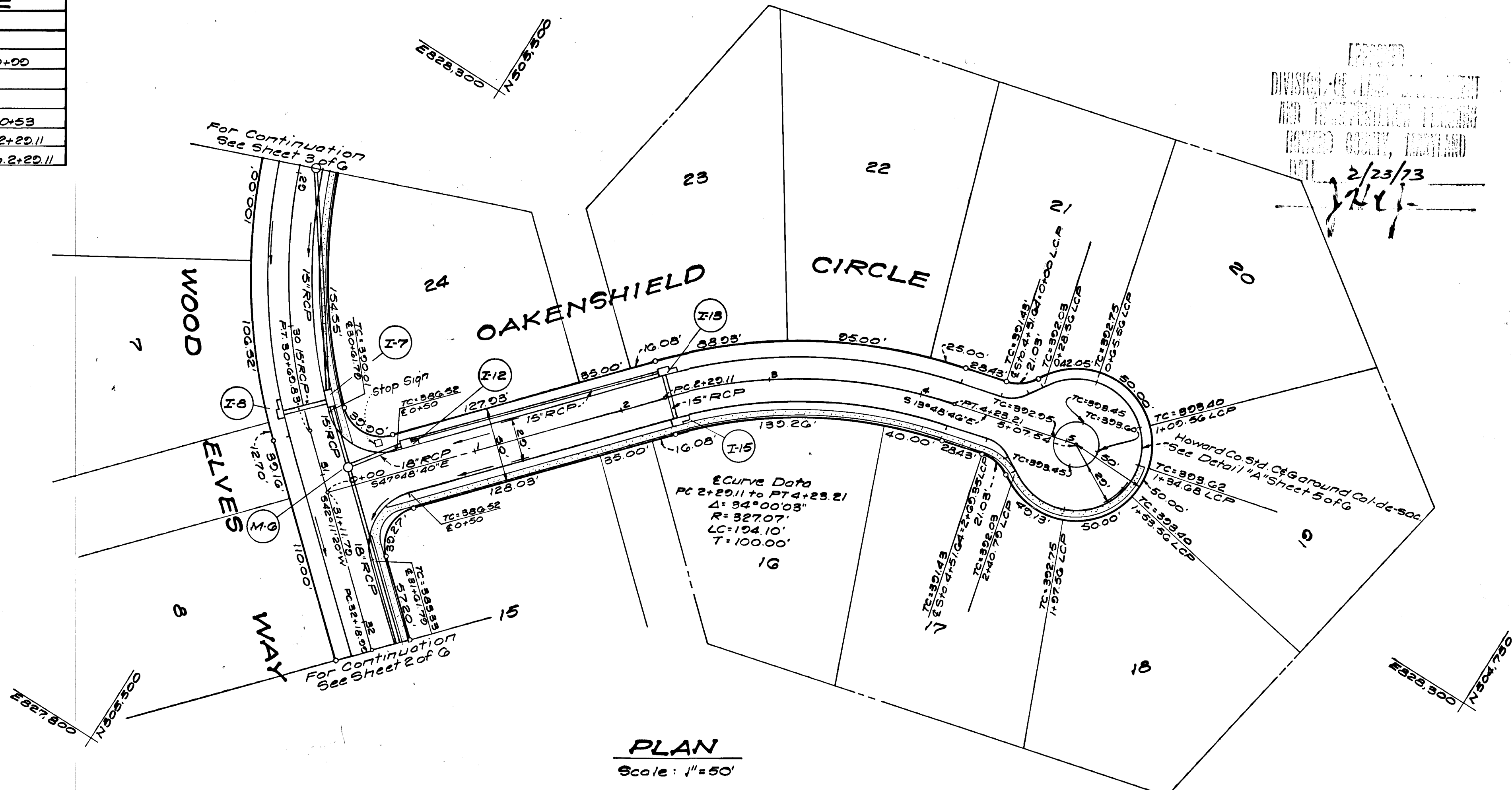
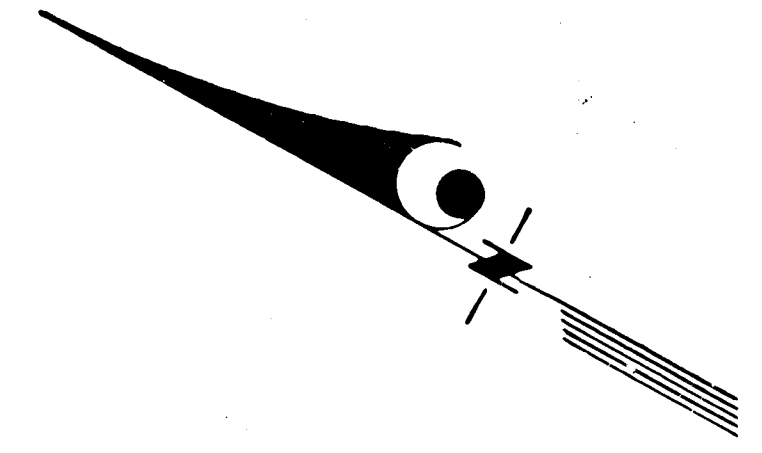
LEGEND

Existing Ground @ &	△
Existing Ground 45' Left	○
Existing Ground 45' Right	○
Existing Ground 85' Left	△
Existing Ground 85' Right	○



S. N. Clark
 11-9-72

STORM DRAIN STRUCTURE SCHEDULE			
No.	Type	DWG. No.	Location
I-5	See Sheet 2 of G	G4-B	110-B See Sheet 2 of G
M-9	Howard Co Std B-Manhole		Manhole 12.70' Left of Sta. 30+00
I-7	See Sheet 3 of G	G4-A	110-A See Sheet 3 of G
I-8	See Sheet 3 of G	G4-B	110-B See Sheet 3 of G
I-12	Howard Co Std B-Inlet w/4'0"	G4-B	110-B Lower End Inlet 12.70' Left of Sta. 0+53
I-13	Howard Co Std B-Inlet w/4'0"	G4-B	110-B " " " 12.70' Left of Sta. 2+29.11
I-15	" " " B-Inlet w/2'0"	G4-B	110-B " " " 12.70' Right of Sta. 2+29.11



PLAN
Scale: 1" = 50'

APPROVED: DEPARTMENT OF PUBLIC WORKS
S. M. McKeen 3/23/72
 Chief, Bureau of Highways Date

APPROVED: HOWARD CO OFFICE OF PLANNING & ZONING

 Chief, Division of Land Development & Transportation Planning Date

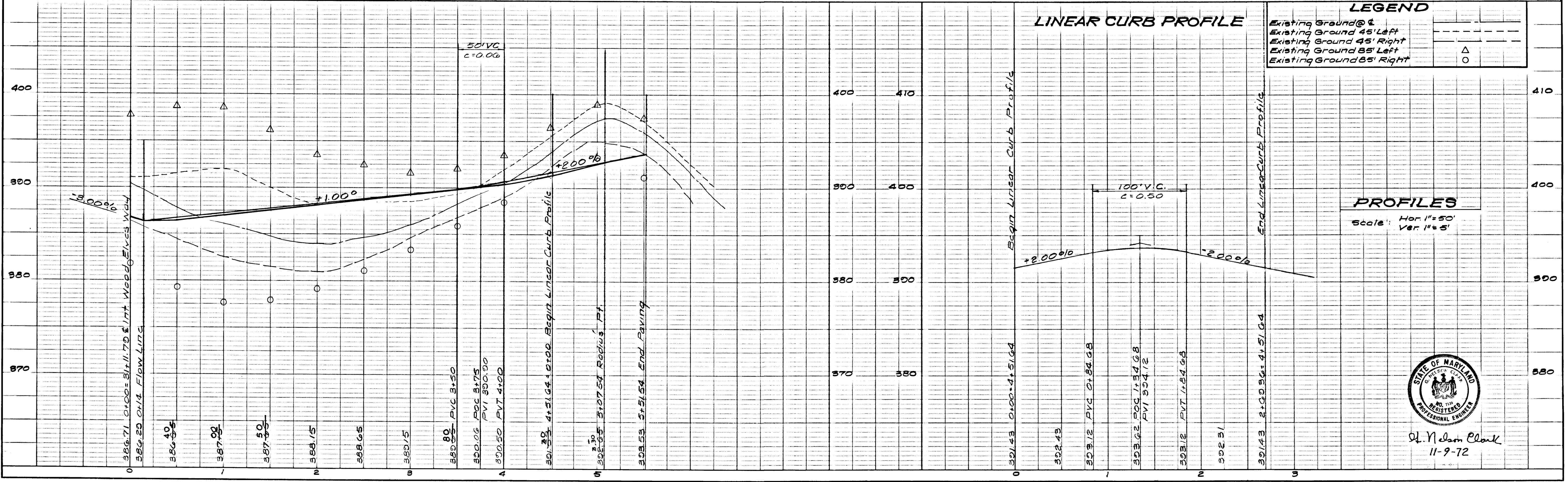
COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT CORP
 Sterrett Building - Second Floor
 Columbia, Maryland 21044

PROJECT:
 VILLAGE OF HARPER'S CHOICE - SEC. 2 AREA 5
 & A Resubdivision of Lot 25 - SEC. 2 AREA 2

PROJECT TITLE: STORM DRAIN & PAVING PLAN
 OAKENSHIELD CIRCLE

Des. By: D.A.B. Scale: As Shown Dwg. No. 4 of G
 Drn. By: Suzan Date: Nov., 1972 C.C.F. No.
 Chk. By: G.N.C. Approved

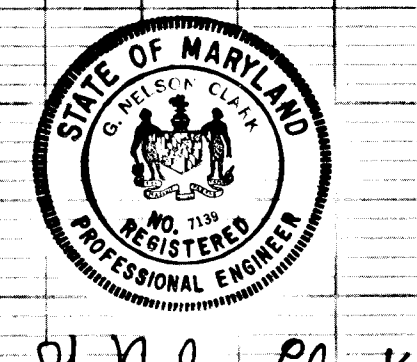
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LEGEND

Existing Ground @ 4'	—
Existing Ground 45' Left	—
Existing Ground 45' Right	—
Existing Ground 85' Left	△
Existing Ground 85' Right	○

PROFILES
 Scale: Hor. 1" = 50'
 Ver. 1" = 5'



S. M. McKeen
 11-9-72

5-26-76

OAKENSHIELD CIRCLE

APPROVED - DEPARTMENT OF PUBLIC WORKS
S. N. O'Connell 3/23/73
 Chief, Bureau of Highways Date

APPROVED - HOWARD CO OFFICE OF PLANNING & ZONING
 Chief, Division of Land Development & Transportation Planning Date

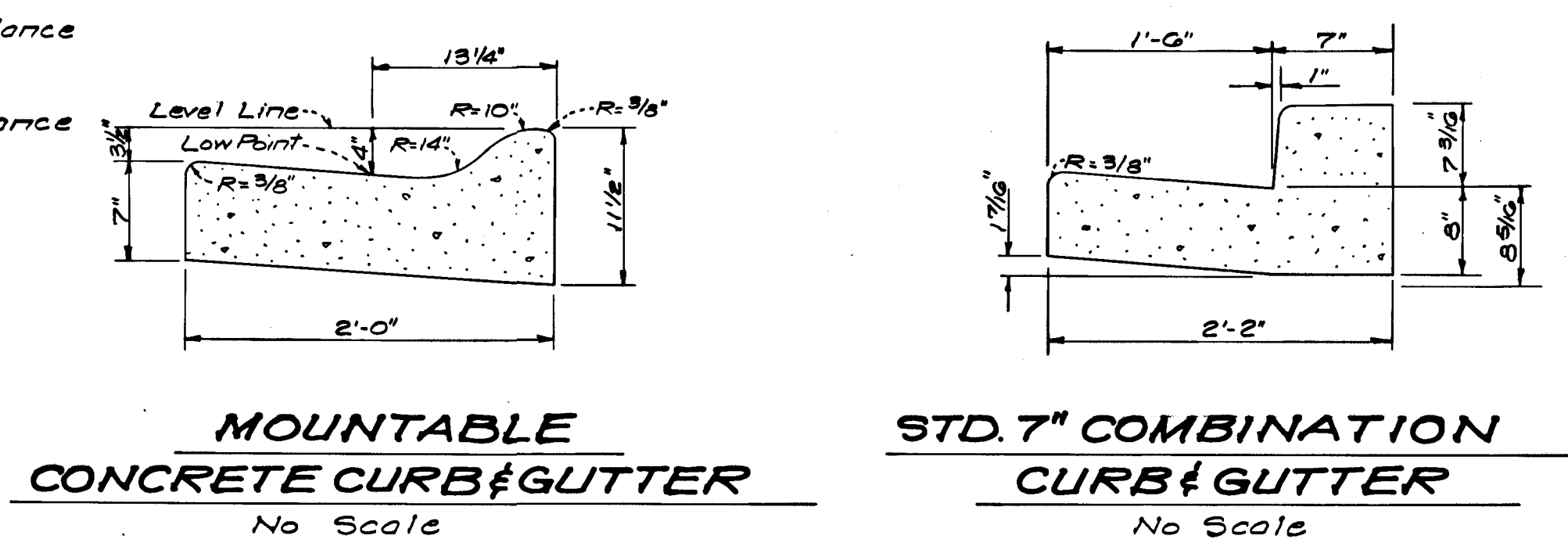
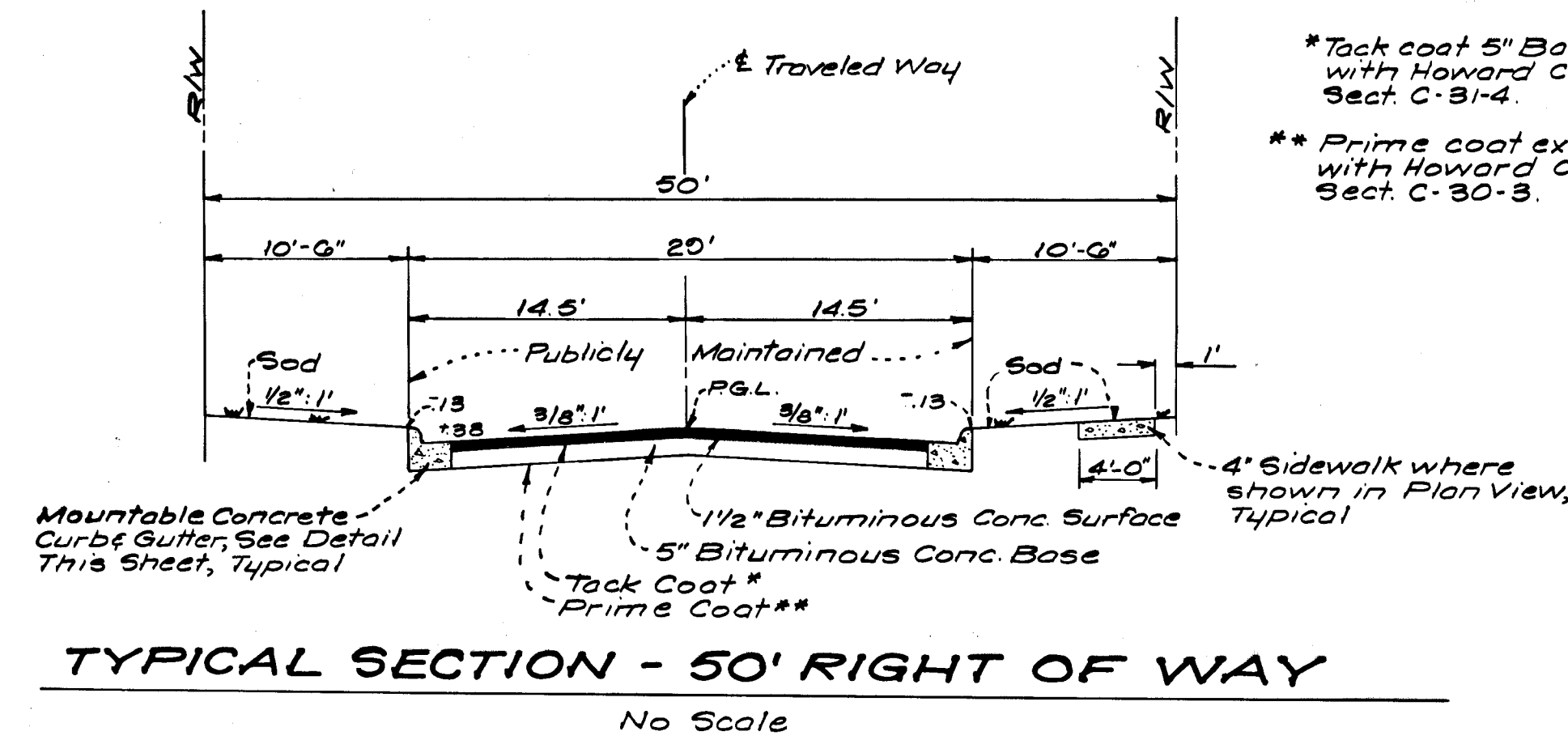
APPROVED
 DIVISION OF LAND DEVELOPMENT
 2/23/73
J. N. O'Connell

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT CORP
 Stenett Building - Second Floor
 Columbia, Maryland 21044

PROJECT
 VILLAGE OF HARPER'S CHOICE - SEC. 2 AREA 5
 & A Resubdivision of Lot 25 - SEC. 2 AREA 2
 PROJECT TITLE: STORM DRAIN & PAVING PLAN
 DETAILS & PROFILES

Des. By: D.A.B. Scale: As Shown Dwg. No. 5 of 6
 Dwn. By: Susan Date: Nov. 1972 C.C.F.N.R.
 Chk. By: G.N.C. Approved

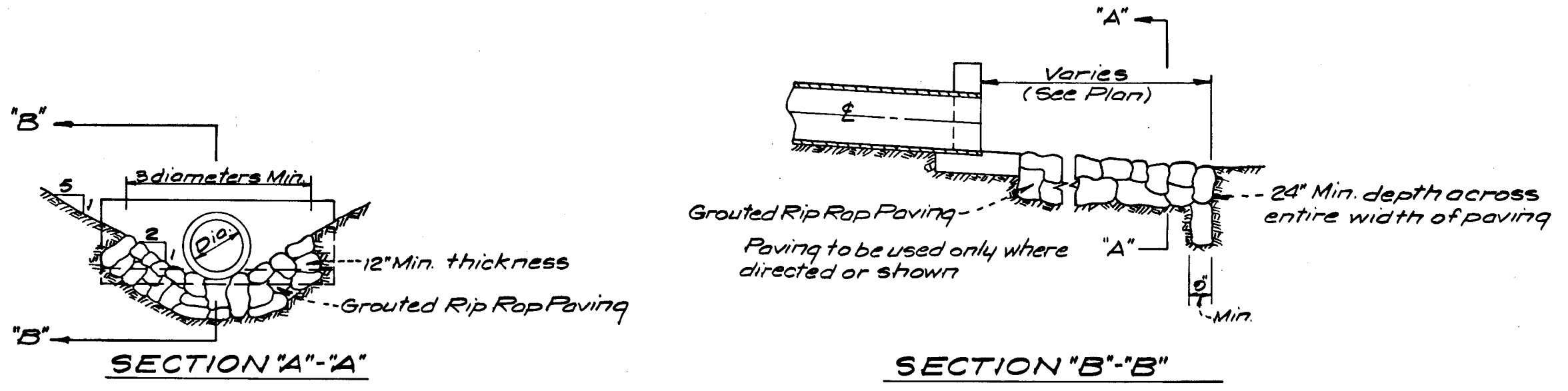
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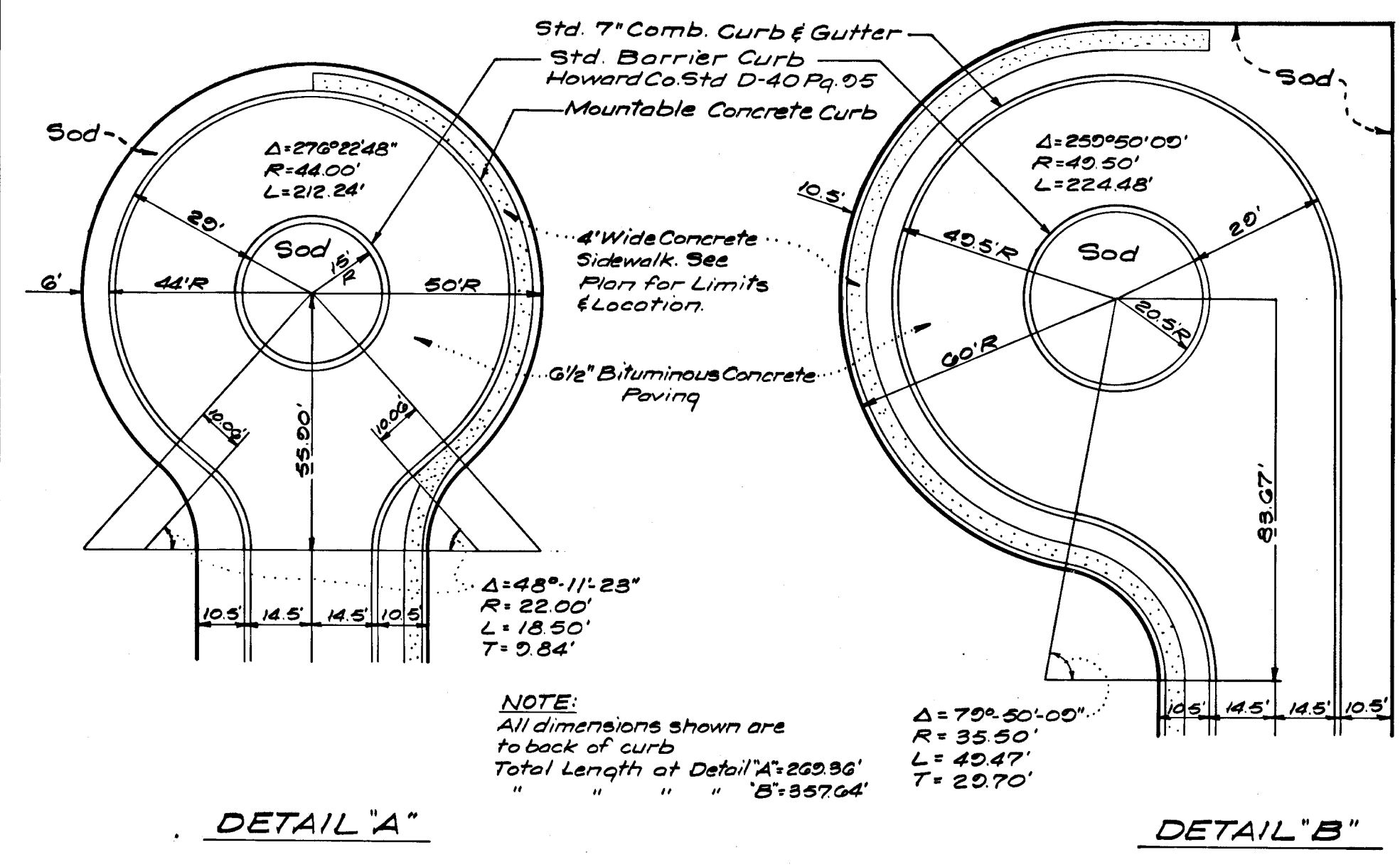
STRUCTURE SCHEDULE

NO	TYPE	TOP ELEV.		REMARKS
		UPPER	LOWER	
S-1	C-Endwall			Howard Co Std. D-21"
M-2	B-Manhole	358.80		" " " " 48" Sq.
I-3	B-10 Inlet	370.22	369.49	" " " " W=4'-0"
I-4	A-10 Inlet	370.22	369.49	" " " " W=4'-0"
I-5	B-10 Inlet	377.03	376.90	" " " " W=4'-0"
M-6	B-Manhole	387.10		" " " " 48" Sq.
I-7	A-10 Inlet	391.11	390.23	" " " " W=2'-6"
I-8	B-10 Inlet	391.11	390.23	" " " " W=2'-6"
M-9	B-Manhole	404.35		" " " " 48" Sq.
I-10	B-10 Inlet	417.03	416.33	" " " " W=2'-6"
I-11	"	417.03	416.33	" " " " W=2'-6"
I-12	"	386.66	386.55	" " " " W=4'-0"
I-13	"	388.45	388.34	" " " " W=4'-0"
I-14	A-10 Inlet	391.41	391.41	" " " " W=2'-6"
I-15	B-10 Inlet	388.45	388.34	" " " " W=2'-6"

* For top of slab grade See Profile This Sheet

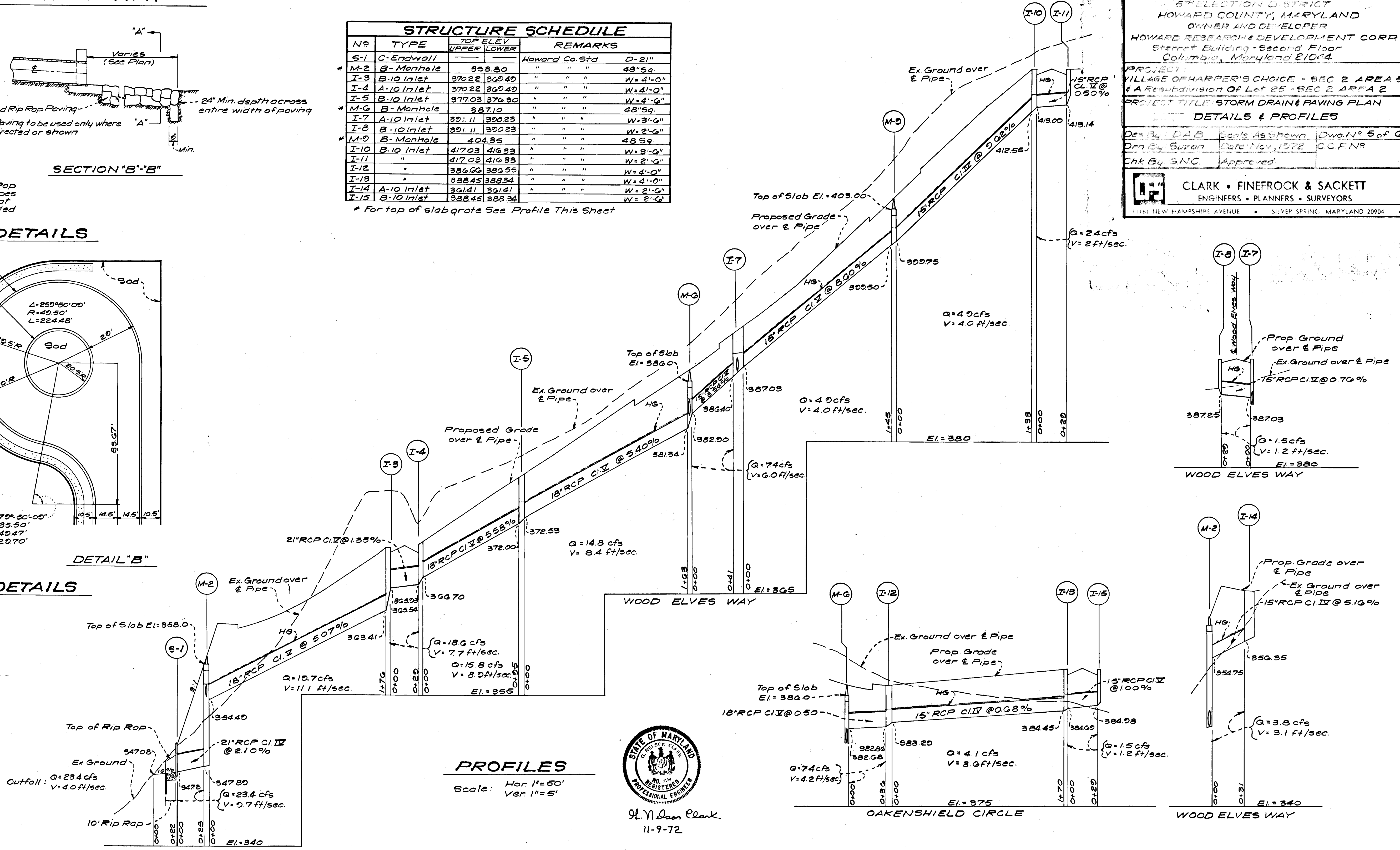


RIP RAP PAVING DETAILS
 No Scale



PIPE SCHEDULE

SIZE	TYPE	LENGTH
15"	RCP C.I.V.	273'
18"	RCP C.I.V.	470'
21"	RCP C.I.V.	28'
21"	RCP C.I.V.	29'
15"	RCP C.I.V.	334'



S. N. O'Connell
 11-9-72



PLAN
Scale: 1" = 100'

APPROVED DEPARTMENT OF PUBLIC WORKS
S. M. McLeod 3/23/73
 Chief Bureau of Highways Date
 APPROVED: HOWARD CO OFFICE OF PLANNING & ZONING
 Chief, Division of Land Development & Transportation Planning Date

PROVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 DIVISION
 2/23/73
John

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT CORP.
 Sterrett Building - Second Floor
 Columbia, Maryland 21044.

PROJECT:
 VILLAGE OF HARPER'S CHOICE - SEC 2 AREA 5
 & A Re subdivision of Lot 25 - SEC 2 AREA 2

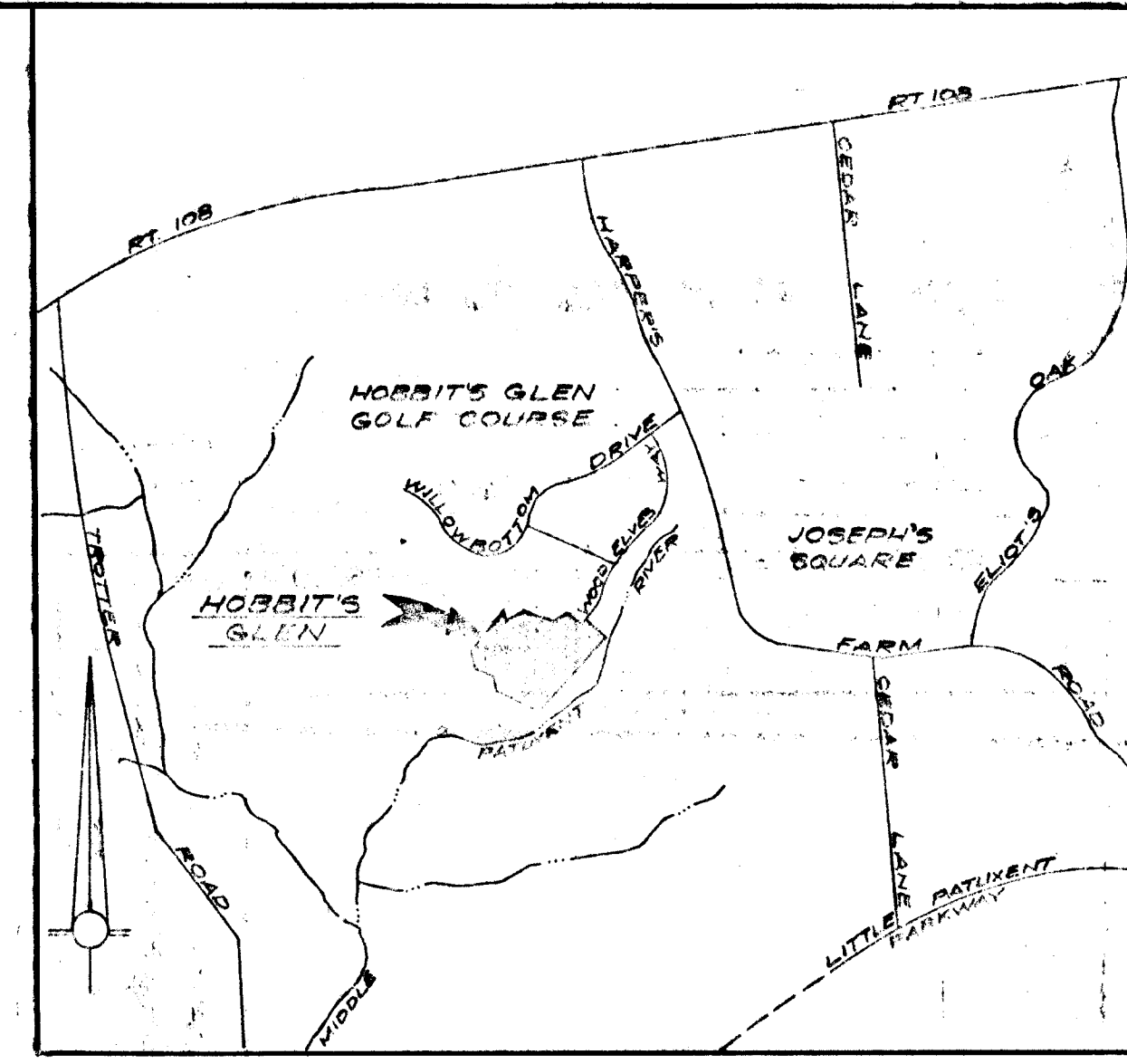
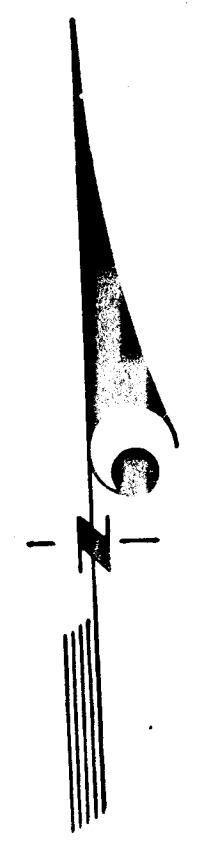
PROJECT TITLE: STORM DRAIN PAVING PLAN
 DRAINAGE AREA MAP

Des. By: D.A.B.	Scale: As Shown	Dwg. No: G of G
Drn. By: Suzon	Date: Nov, 1972	C.C.F. No
Chk. By: G.N.C.	Approved:	

CF CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11161 NEW HAMPSHIRE AVENUE • SILVER SPRING, MARYLAND 20904



S. Nelson Clark
11-9-72



VICINITY MAP
Scale: 1" = 2000'



GENERAL NOTES

1. Prior to any construction, sediment control practices will be installed and stabilized. See General Note #5.
2. Stabilization of disturbed ground to be done as soon after construction as possible.
3. All Sediment Control Practices to conform to the "Erosion & Sediment Control Technical Handbook" as published by the Howard Soil Conservation District. For details & dimensions not shown on this plan refer to this handbook.
4. Sediment Basin to be removed only after written approval from the Howard Conservation District has been obtained.
5. All disturbed areas shall be finished graded to a slope of 3:1 or less, seed bed shall be prepared with 1 ton/ac. of ground agricultural limestone and 1/2 ton/ac. of 10-10-10 fertilizer, seeding shall be 3 lbs/1000 S.F. of 50-50 mixture of Kentucky Bluegrass and Creeping Red Fescue, and mulching shall be 1/2 ton/ac. of weed free grain straw.
6. Clean out of Sediment Basin shall be required when sediment reaches 6" below top of riser.
7. Brick shut all inlets. Inlets to be reopened after paving and stabilization is completed.

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.

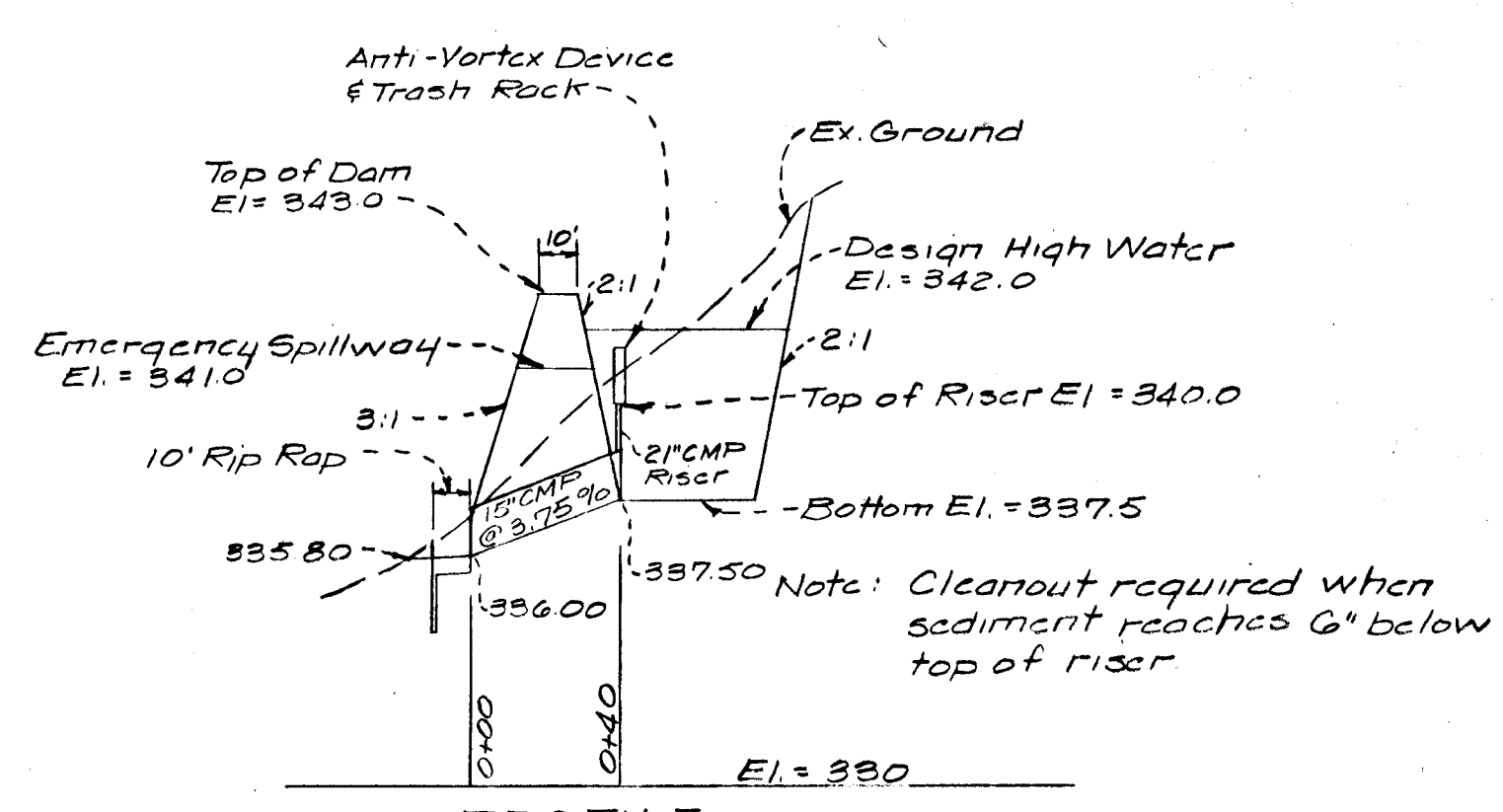
L. N. Sam Clark
G. Nelson Clark
11-13-72
Date

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 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.

Donald W. Erisk
Signature
11/13/72
Date

PLAN
Scale: 1" = 100'



PROFILE
Scale: Horiz. 1" = 50'
Vert. 1" = 5'



Reviewed For: Howard
Name
and meets Technical Requirements
Charles E. Nudosh 3/19/73
Signature Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved: *Robert W. Zehn* Date: 3/19/73

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11161 NEW HAMPSHIRE AVENUE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400		SCALE
DESIGNED	SEDIMENT EROSION CONTROL PLAN	As Shown
DRAWN	COLUMBIA	DRAWING
CHECKED	SECTION 2 AREA 5	1 of 1
G.N.C.	#A RESUBDIVISION OF LOT 25	JOB NO.
	SECTION 2 AREA 2	
	5TH ELECTION DISTRICT	
	HOWARD COUNTY, MARYLAND	
	FOR: HOWARD RESEARCH DEVELOPMENT CORP.	1084-D
	Starrett Building - Second Floor	
	Columbia, Maryland 21044	