

COLUMBIA

HOWARD COUNTY, MARYLAND
5th ELECTION DISTRICT

VILLAGE OF HICKORY RIDGE

~~SECTION 1, AREA 3~~

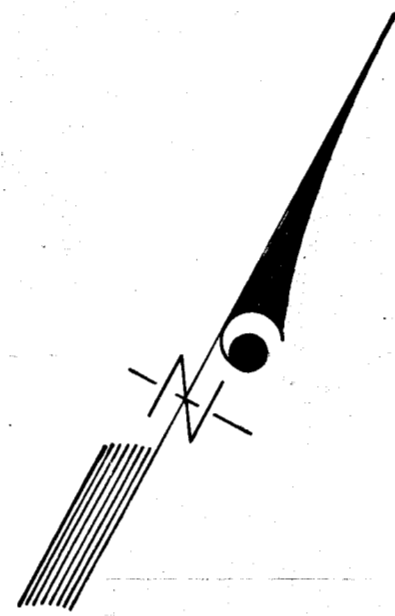
VILLAGE OF CLARY'S FOREST

SECTION 1, AREA 1,

NAME CHANGE ONLY APPROVED BY
HOWARD COUNTY PLANNING BOARD,
APRIL 18, 1973

REVISION NOTE ADDED BY HOWARD COUNTY
OFFICE OF PLANNING AND ZONING
MAY 4, 1973

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

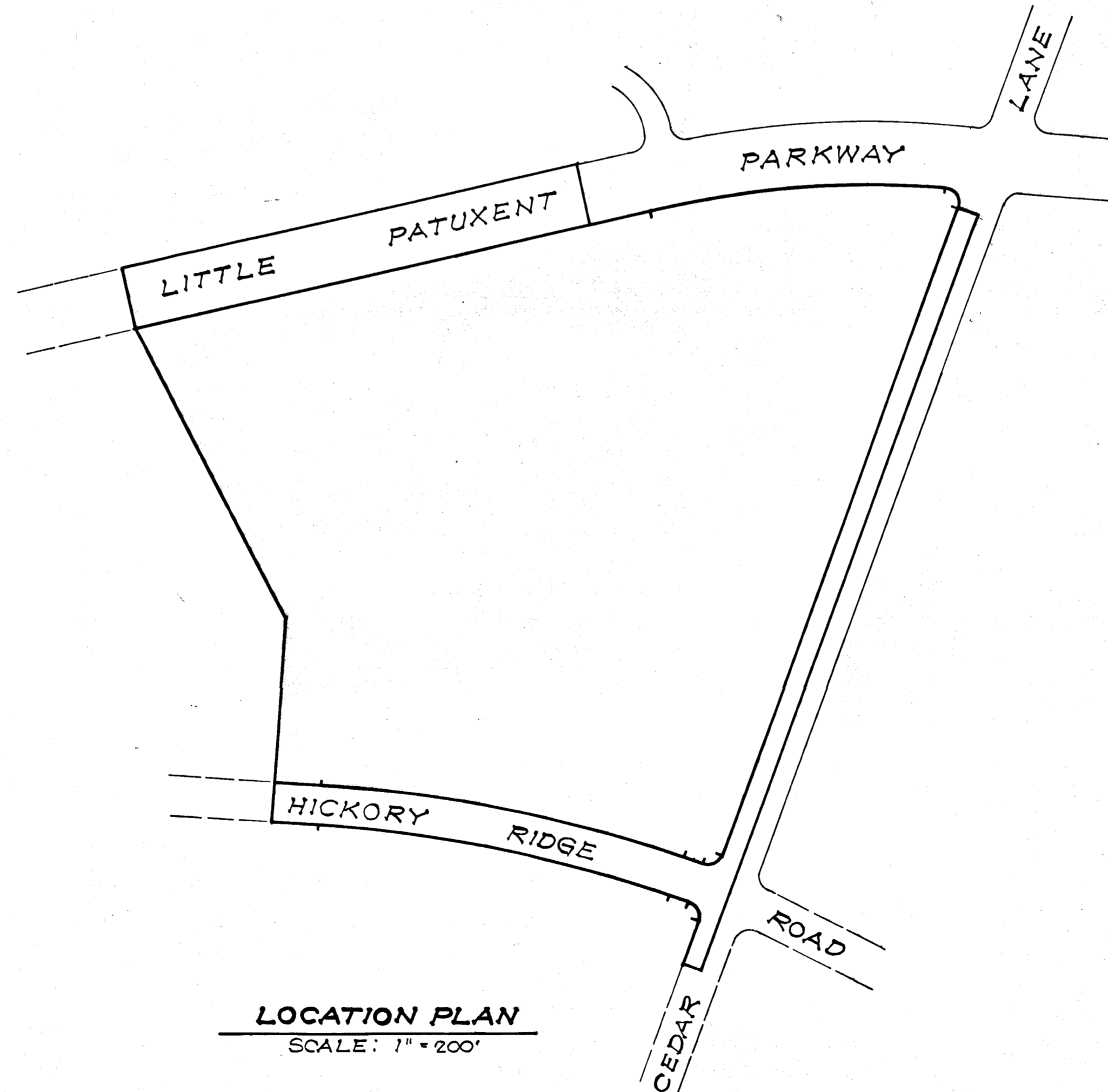


GENERAL NOTES

1. All storm drain and paving shall be constructed in accordance with the latest details and specifications of Howard County.
2. Types of Storm Drain Structures refer to the standard details of Howard County.
3. Trench compaction for storm drains within road or street right of way limits shall be in accordance with the latest Howard County Road Code.
4. 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 trenching.
5. All utility companies shall be notified 24 hours in advance of construction.

SCHEDULE OF CONSTRUCTION (TO BE FOLLOWED)

1. Grading
2. Seeding & Mulching & Lime & FERTILIZER
3. Storm Drainage
4. Other Utilities
5. Concrete Curb and Gutter
6. Paving
7. Concrete Sidewalk



LOCATION PLAN
SCALE: 1" = 200'

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LITTLE PATUXENT PARKWAY, PLAN AND PROFILE
3	CEDAR LANE, PLAN AND PROFILE
4	CEDAR LANE, PLAN AND PROFILE
5	HICKORY RIDGE ROAD, PLAN AND PROFILE
6	PAVING SECTIONS AND DETAILS, BENCH MARKS
7	DRAINAGE SCHEDULES, DETAILS AND PROFILES
8	DRAINAGE AREA MAP
9	SOIL EROSION AND SEDIMENT CONTROL

Note:

Revision Δ 9-24-73

Sheet 2 - Revision of street grade, as built elevations for eastbound lane, removal of "Future" reference for construction of westbound lane.

Sheet 6 - Revision of top and invert elevations, structures I-8 & I-9. Addition of Transition Schedule.

Sheet 7 - Revision of drainage profiles 5-6 to 5-7.

DEPARTMENT OF PUBLIC WORKS

D. M. McLeod
CHIEF, BUREAU OF HIGHWAYS

11/1/73
DATE

VERTICAL CONTROL

BM*6 - X-CUT T.C. LITTLE PATUXENT PKWY.
ELEV. 445.89

HORIZONTAL CONTROL

TRAV. STA. C-11 IRON BAR
N 501615 655
W 832084.209

AS-BUILT SURVEY: VERIFIED BY
EARL D. COLLINS MD. REG. PROFESS-
SIONAL ENGINEER No 9753

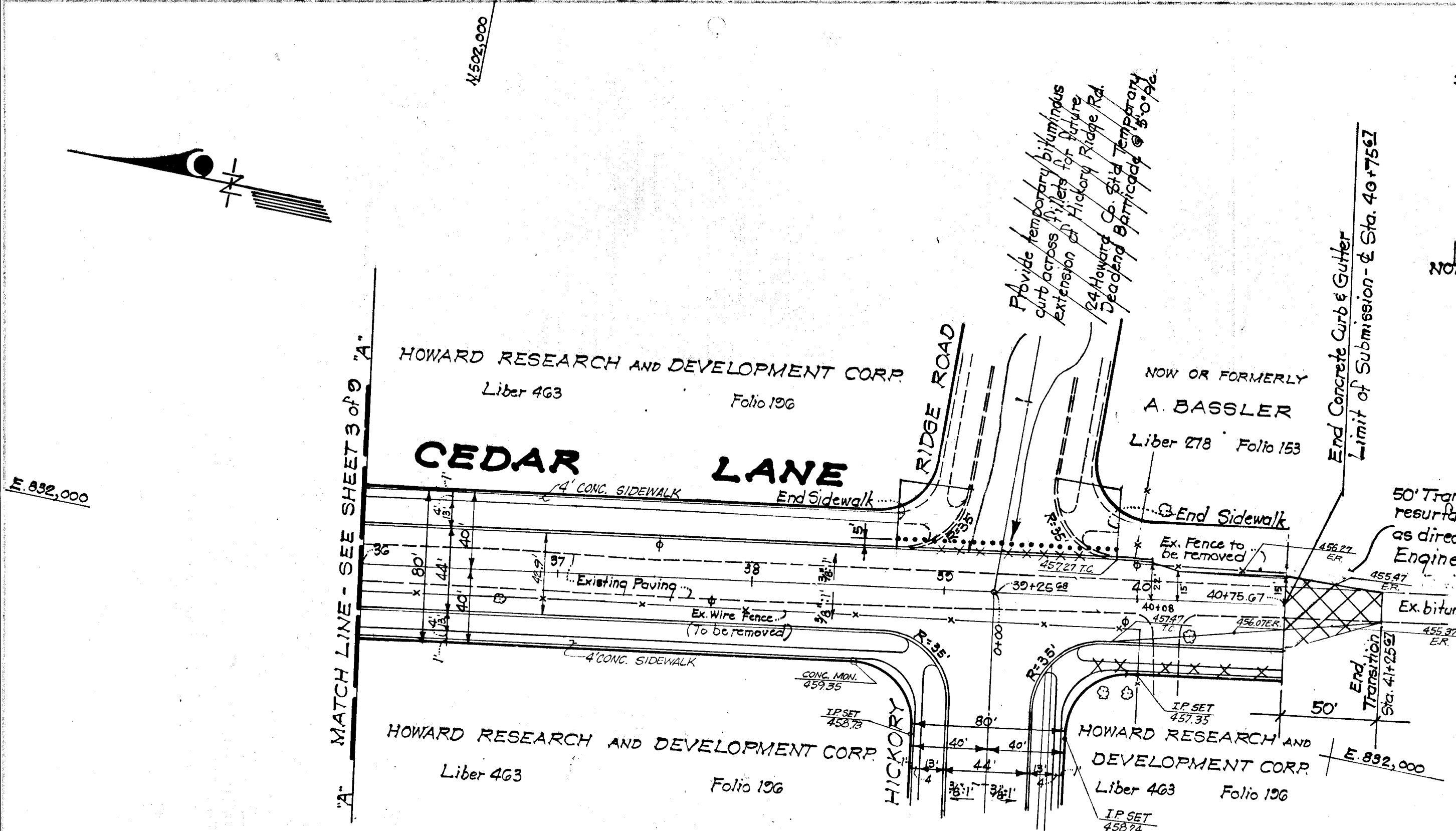
Branwell H. McLeod 5/24/71
W.H. Cleary 5-21-71

#132

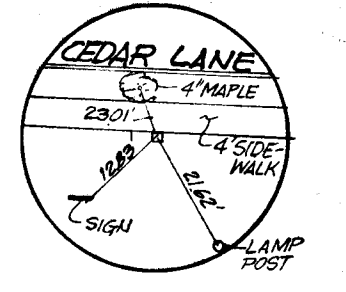
MACRIS-FOWLER
ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS
217 SILVER SPRING AVE. 27 W. JEFFERSON ST.
SILVER SPRING MD. 20910 ROCKVILLE MD. 20857
(301) 585-0030 (301) 747-3838

F-73-79C F77-69C

PLAN
 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.
 2. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS SHALL BE TO THE FACE UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.



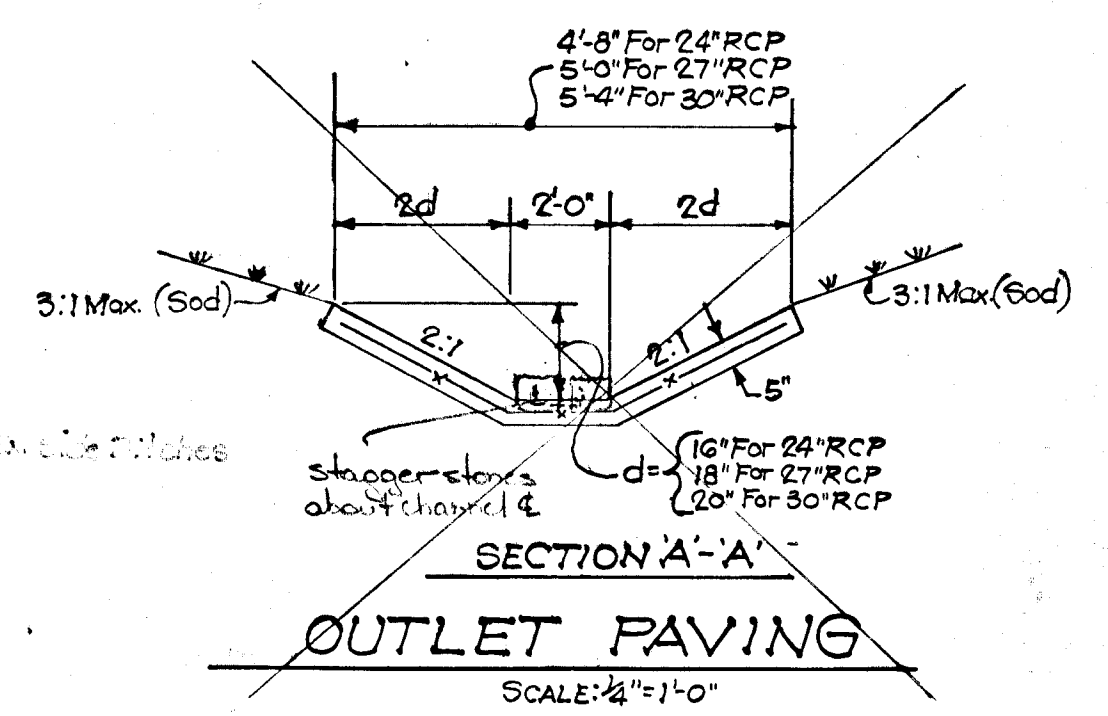
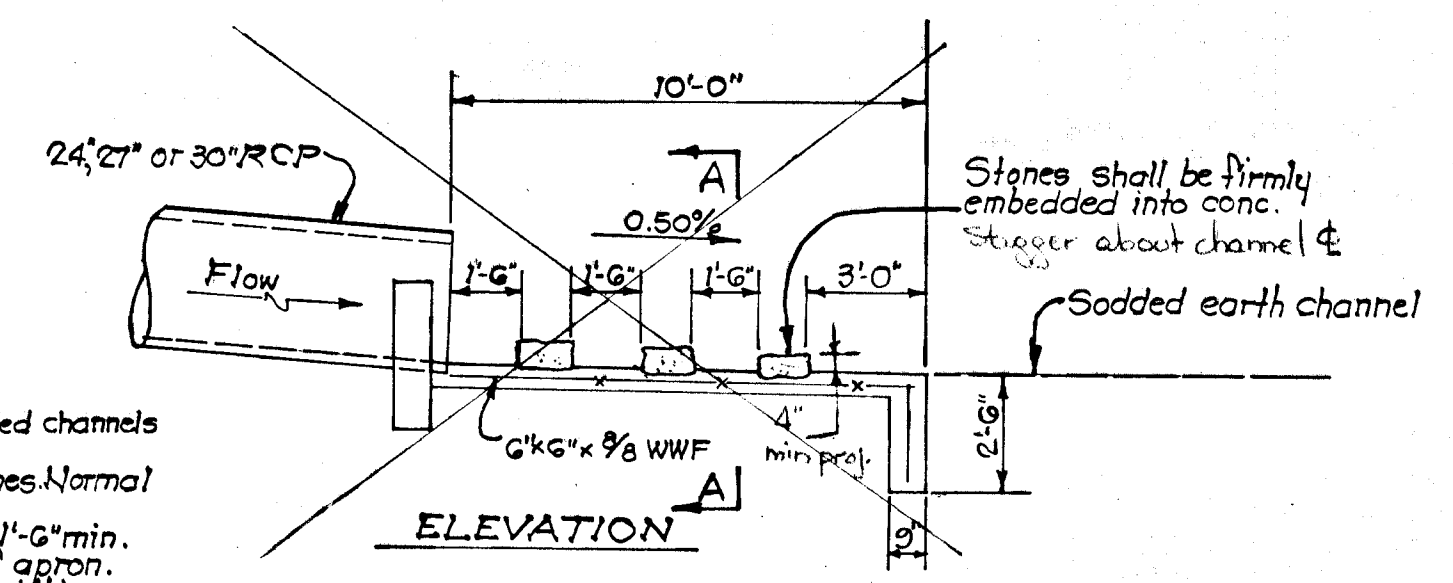
DEPARTMENT OF HIGHWAYS
 Dr. Wm. A. McKeand 5/24/71
 CHIEF BUREAU OF HIGHWAYS
 OFFICE OF PLANNING AND ZONING



PLAN
 SCALE: 1"=50'

For typical paving section
 See detail - sheet 6 of 9.

- NOTES:
1. For lengths of concrete & sodded channels see plan & profiles.
 2. Stones shall be 2 man stones - Normal size shall be 12"x12"x8".
 3. First stone shall be placed 1'-6" min. from end of endwall @ 1/2 of apron.
 4. No stones are to be placed within 3'-0" from end of apron.



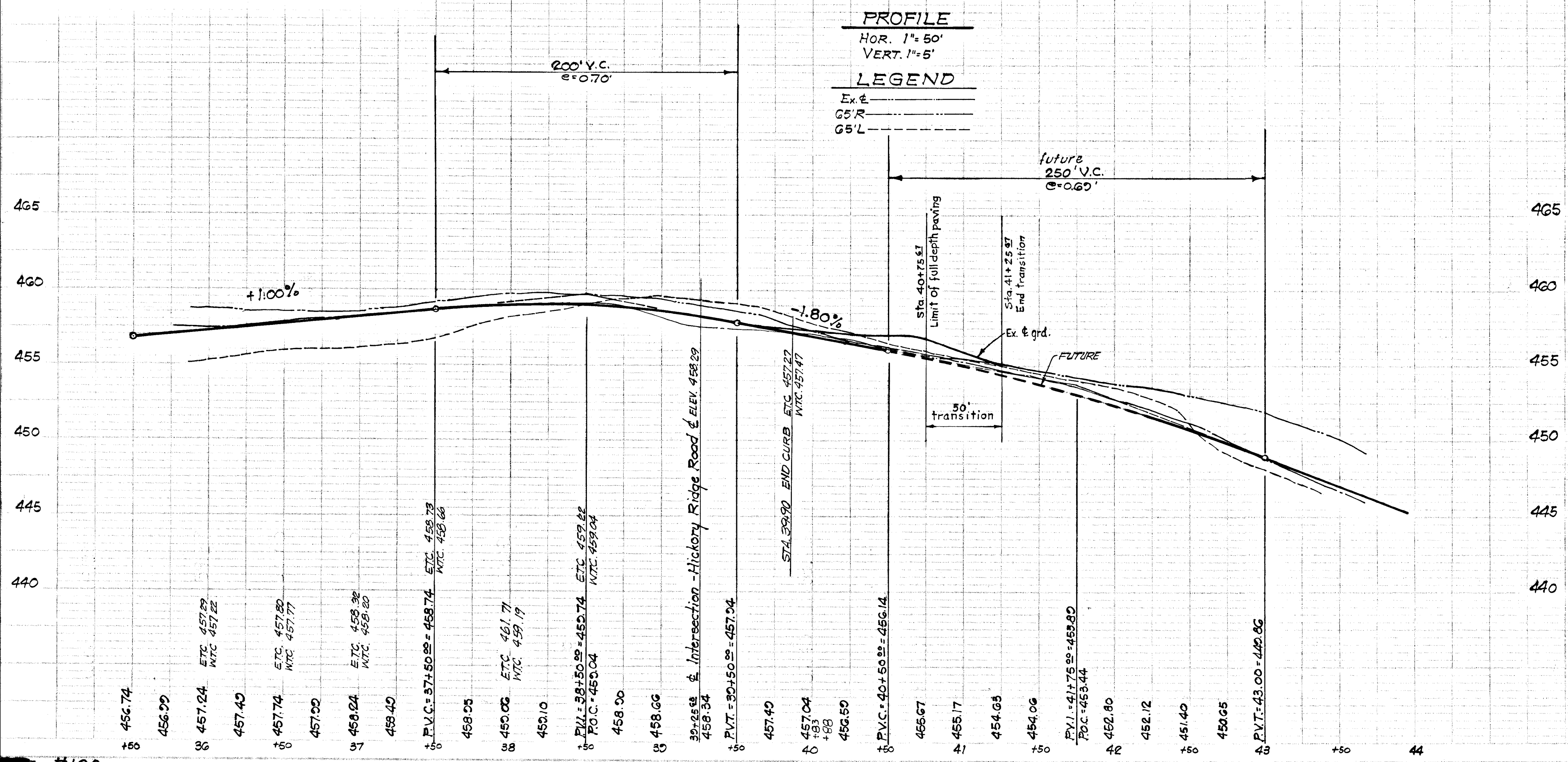
Name Changed From
 Village of Hickory Ridge
 To:
VILLAGE OF CLARY'S FOREST
 SECTION I, AREA I,
 April 18, 1973

AS-BUILT SURVEY: VERIFIED
 BY EARL D. COLLINS, MD REG.
 PROFESSIONAL ENGINEER
 No. 9725



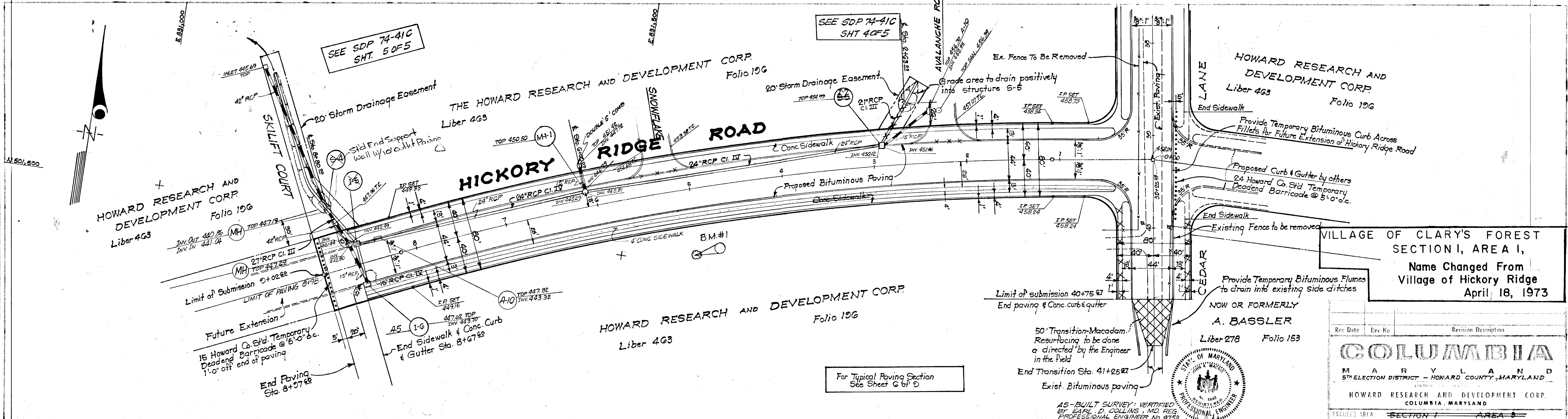
MACRIS-FOWLER
 ASSOCIATES
 CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS
 817 SILVER SPRING AVE. SILVER SPRING, MD. 20910
 27 W JEFFERSON ST. ROCKVILLE, MD. 20850
 (301) 585-0030 (301) 762-3858

Rev. No.	1	as built conditions sta. 40+08 to sta. 41+25.07
Rev. Date	9/10/80	
Rev. Description		
COLUMBIA		
M A R Y L A N D		
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND		
HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYL.		
PROJECT AREA: SECTION I, AREA 1		
VILLAGE OF HICKORY RIDGE		
PROJECT TITLE: PLAN AND PROFILE CEDAR LANE STA. 36+00 TO STA. 40+75.07		
Des. By	J.A.M.	Scale AS SHOWN
Dir. By	D.M.	Date 5-4-71
CHK. By	J.A.M.	Appr. [Signature]
Proj. No.	4079	Draw. No. 4079
CCF No.		

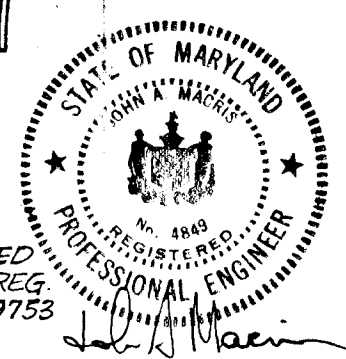


APPROVED
 OFFICE OF PLANNING
 AND ZONING OF
 HOWARD COUNTY
 DATE: MAY 21, 1971
 [Signature]

AS BUILT F73-79C F71-69C
 2/10/81 JC



VILLAGE OF CLARY'S FOREST
SECTION I, AREA I,
Name Changed From
Village of Hickory Ridge
April 18, 1973



AS-BUILT SURVEY - VERIFIED
BY EARL D. COLLINS, M.D. REG.
PROFESSIONAL ENGINEER No. 9753

MACRIS-FOWLER ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS
817 SILVER SPRING AVE. SILVER SPRING MD. 20910 (301) 545-0030
27 W. JEFFERSON ST. ROCKVILLE MD 20850 (301) 762-3858

Rev. Date	Rev. No.	Revision Description

COLUMBIA
MARYLAND
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
OWNER: HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYLAND

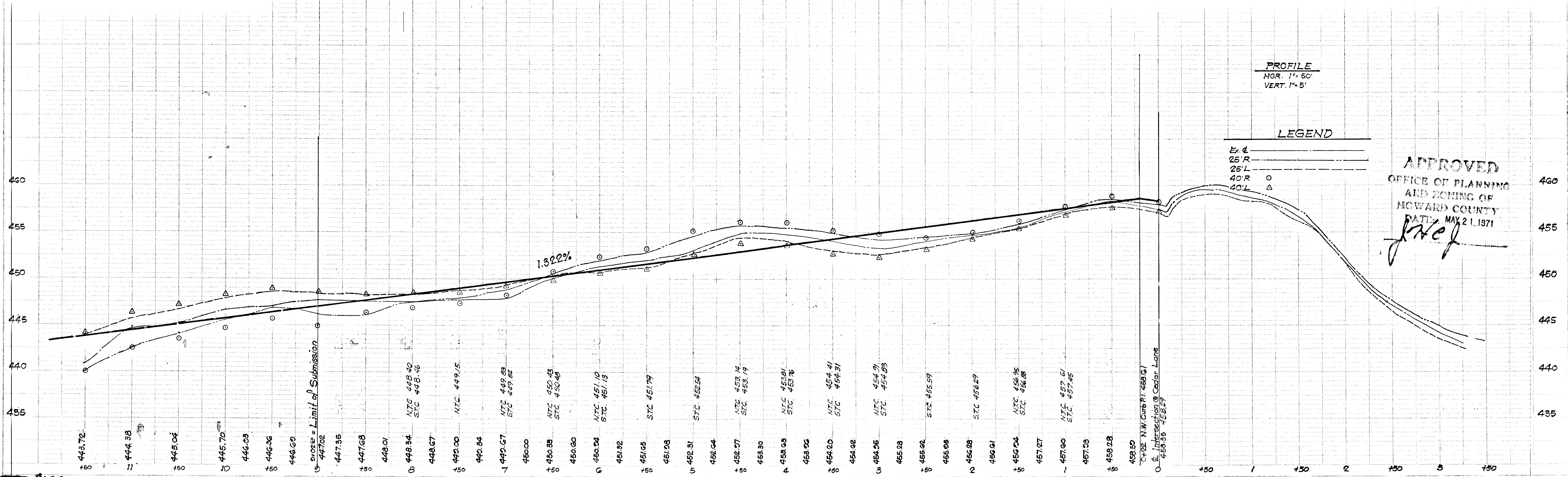
PROJECT AREA: SECTION I - AREA I
VILLAGE OF HICKORY RIDGE

PROJECT TITLE: PLAN AND PROFILE
HICKORY RIDGE ROAD
STA. 0+00 TO STA. 9+02.62

Des. by J.A.M.	Scale AS SHOWN	Proj. No. 5079
Dir. by D.M.	Date 5-4-71	C.C.F. No.
Chk. by J.A.M.	Approved	

PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
Drayville N. McLeod 5/24/71
CHIEF, BUREAU OF HIGHWAYS
OFFICE OF PLANNING AND ZONING

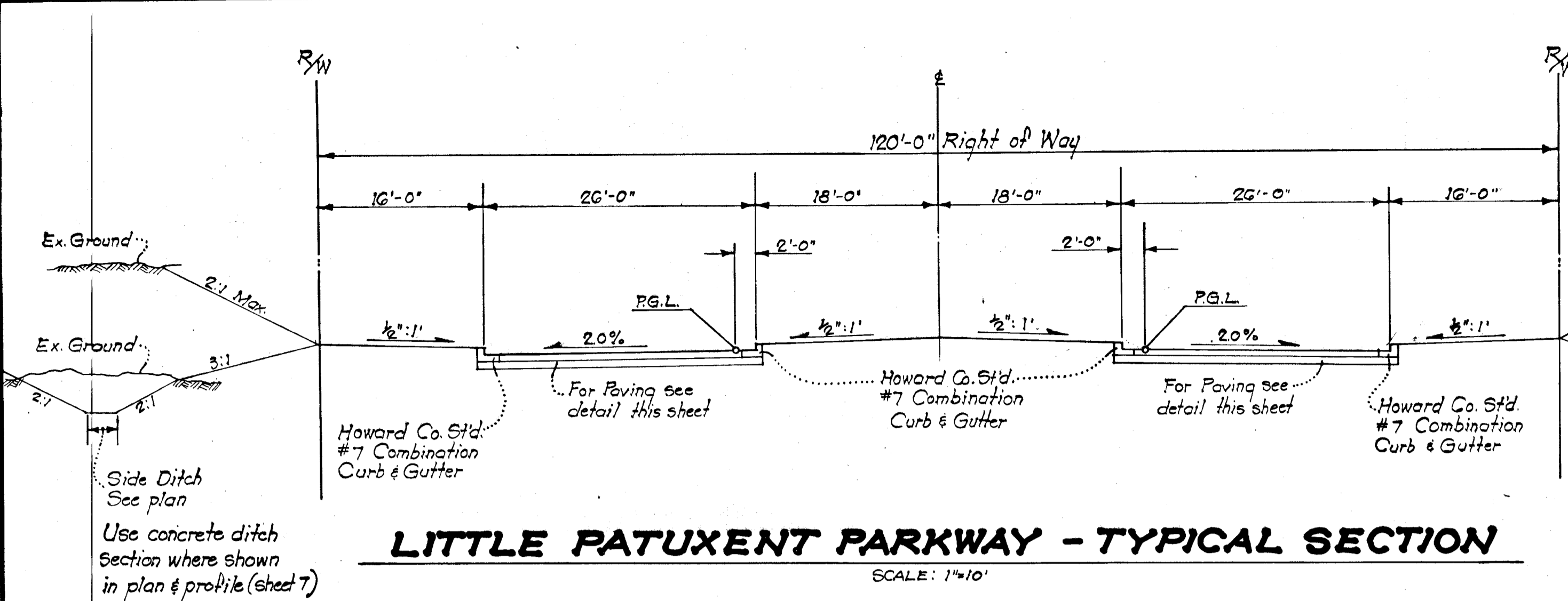


APPROVED
OFFICE OF PLANNING
AND ZONING OF
HOWARD COUNTY
DATE: MAY 21, 1971
J. M. Collins

AS BUILT 2/10/81 F73-79C F71-69C

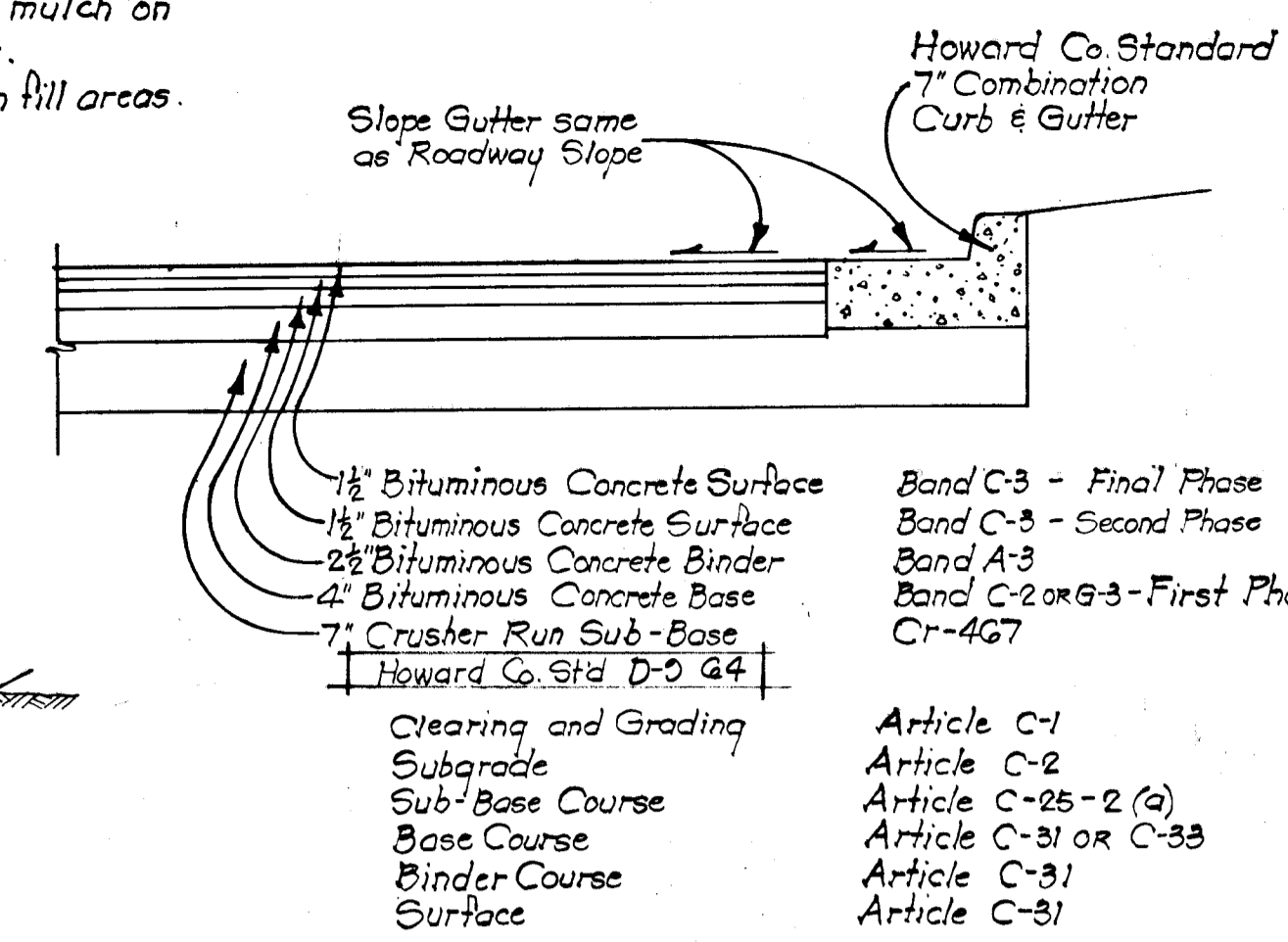
PLAN
REVISIONS
NOTED
NOTE BOOK
ALIGNMENT CHECKED
BY: []
DATE: []
NO. []

PROFILE
REVISIONS
NOTED
NOTE BOOK
ELEVATION CHECKED
BY: []
DATE: []
NO. []

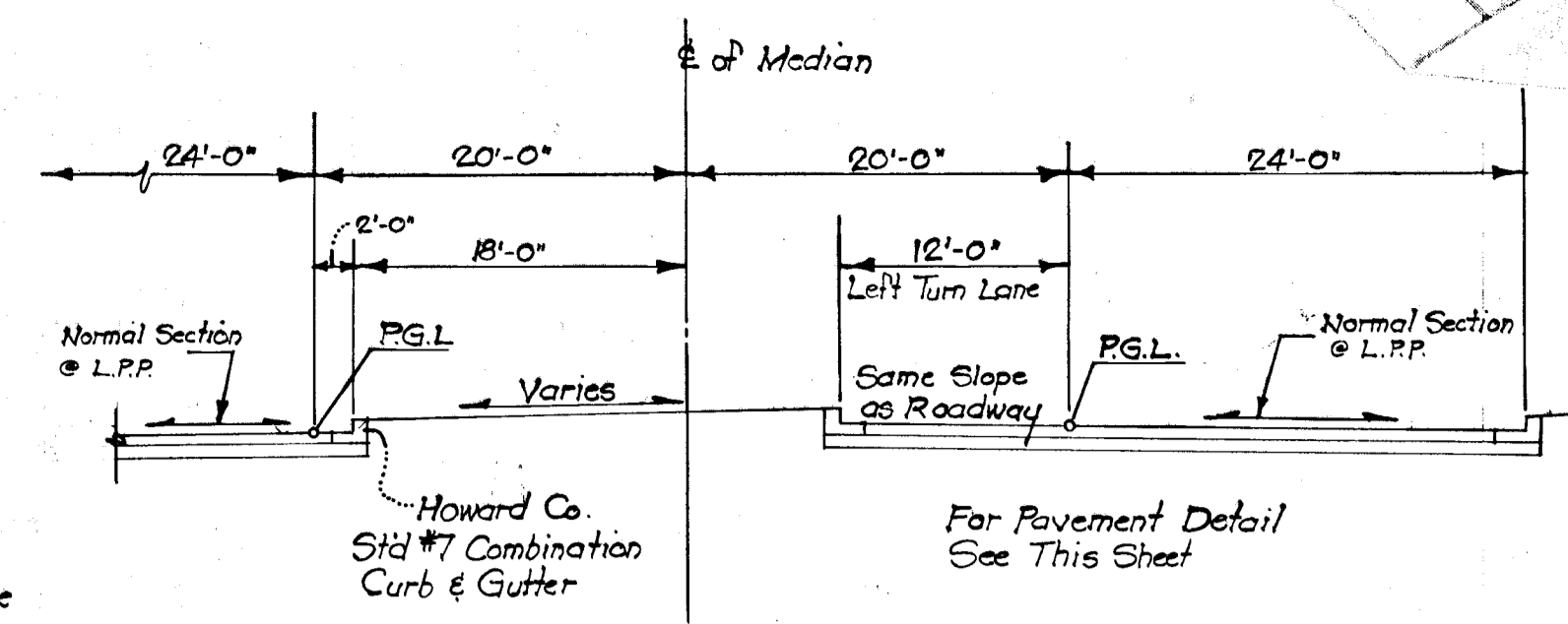


LITTLE PATUXENT PARKWAY - TYPICAL SECTION
SCALE: 1"=10'

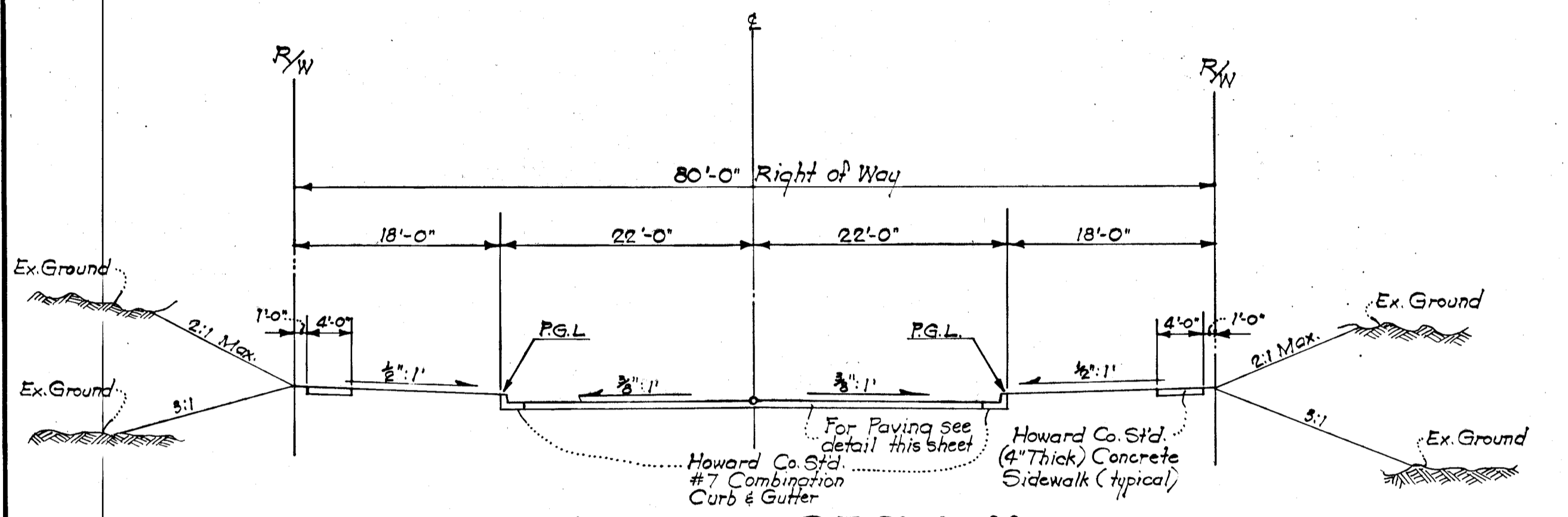
NOTES:
1. Place 4" topsoil, seed and mulch on all slopes within R/W limits.
2. Transition slopes to be 3:1 in fill areas.



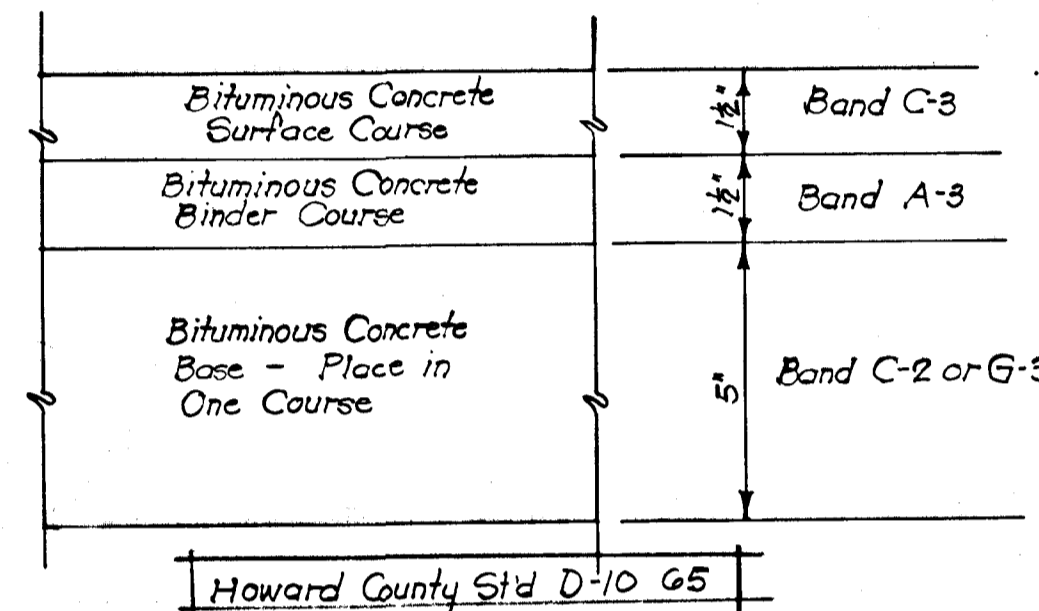
PAVING SECTION LITTLE PATUXENT PARKWAY
NO SCALE



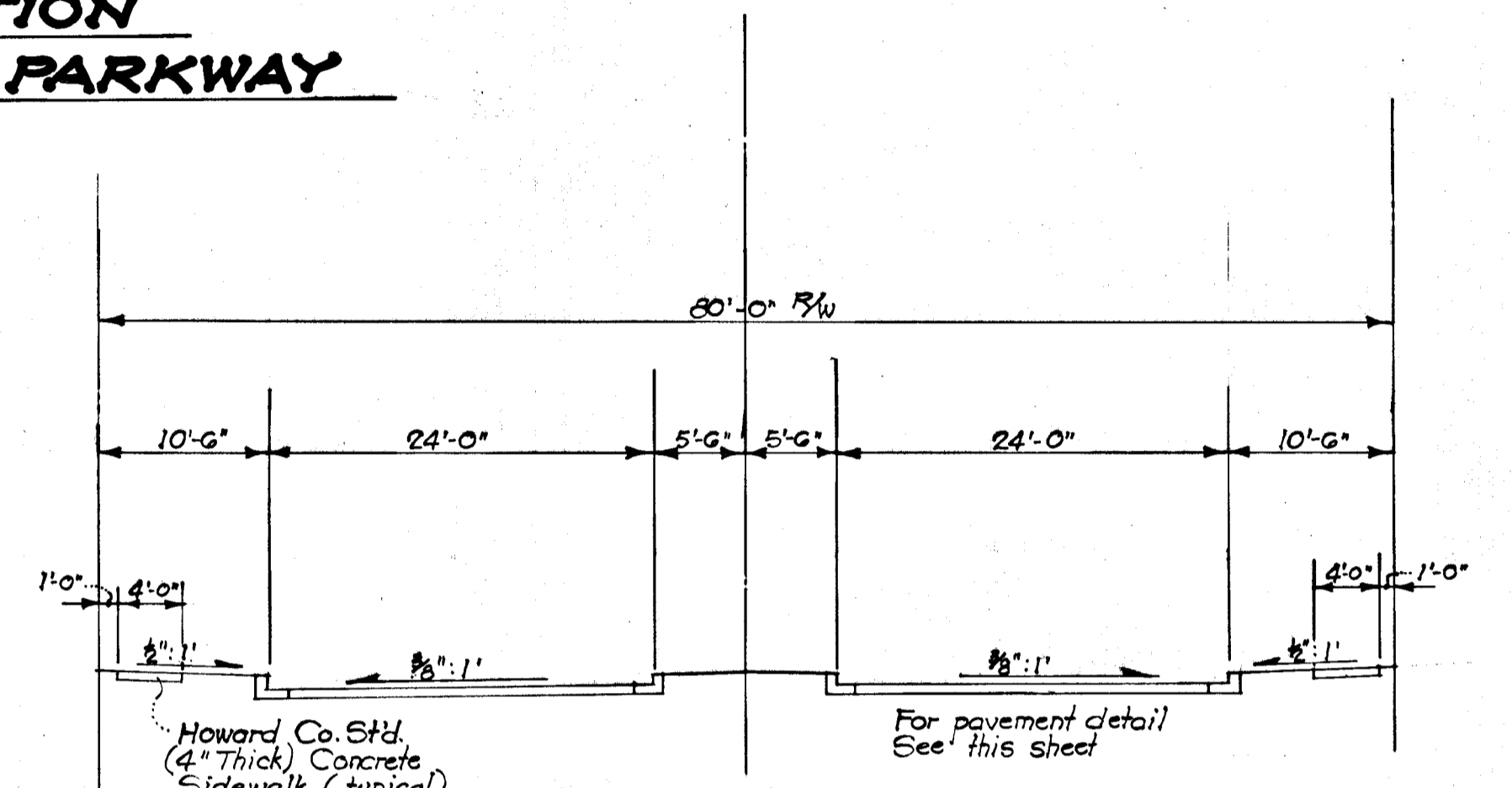
PARTIAL SECTION LEFT TURN STORAGE LANE
SCALE: 1"=10'



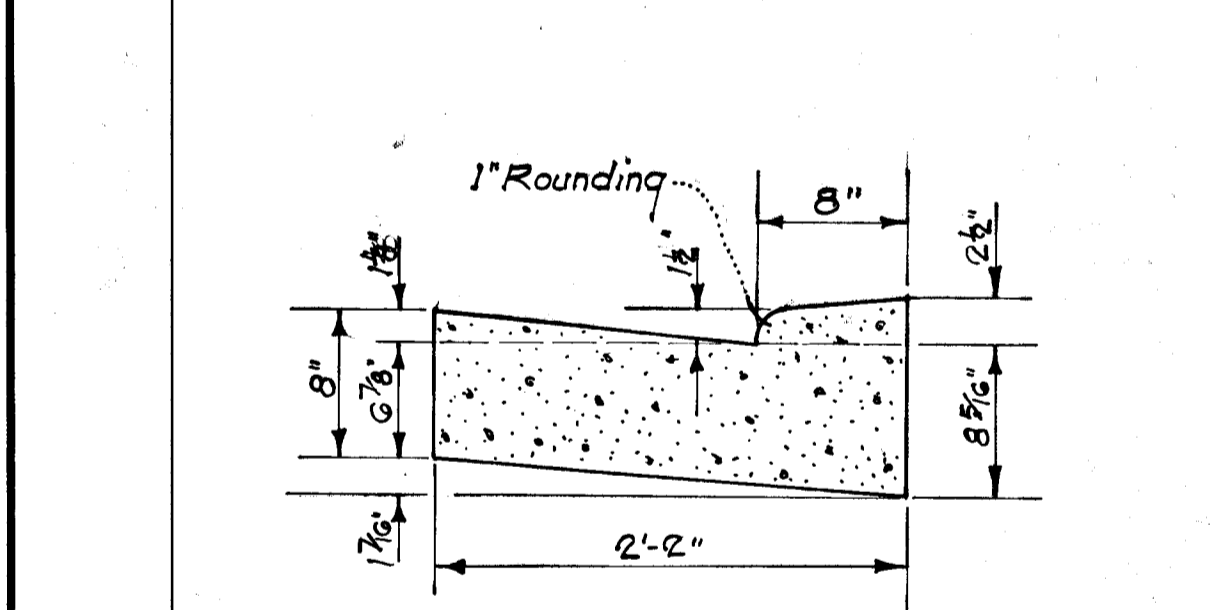
TYPICAL SECTION HICKORY RIDGE ROAD AND CEDAR LANE
SCALE: 1"=10'



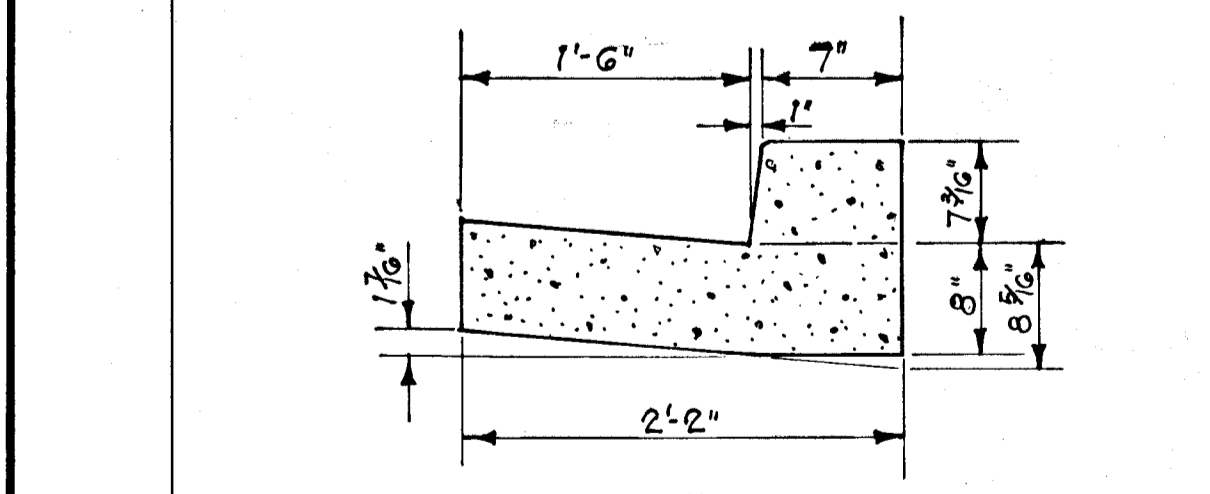
PAVING SECTION HICKORY RIDGE ROAD AND CEDAR LANE
NO SCALE



DUAL ROADWAY SECTION AT CEDAR LANE
SCALE: 1"=10'



DEPRESSED CURB SECTION
NO SCALE



STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE

STRUCTURE SCHEDULE						
NO	TYPE	TOP ELEV. UPPER LOWER	INVERT IN	INVERT OUT	REMARKS	
I-1	6" Combination Double Grate	458.61	458.20	457.75	Howard County Std.	
I-2	6" Combination Double Grate	458.61	458.27	457.98	Howard County Std.	
I-3	6" Combination Double Grate	458.61	458.42	458.36	Howard County Std.	
I-4	6" Combination Double Grate	458.61	458.42	458.36	Howard County Std.	
I-5	6" Combination Double Grate	447.19	447.10	446.56	Howard County Std.	
I-6	6" Combination Double Grate	447.15	447.12	446.59	Howard County Std.	
I-7	6" Combination Double Grate	454.99	454.00	450.10	Howard County Std.	
I-8	A-10 Inlet	454.00	454.00	454.00	Howard County Std. W=2'-6"	
I-10	B-15 Inlet A-10	450.8	450.8	450.8	Howard County Std. W=2'-6"	
MH-1	48" Manhole	450.80	450.80	449.20	Howard County Std.	
I-9	6" Combination Double Grate	447.82	447.82	447.82	Howard County Std.	
A-10	A-10	447.82	447.82	443.32	Howard County Std.	
S-1	30" φ Std. End Support Wall	-	-	-	Howard Co. Std. #7 Conc. paving	
S-2	24" φ Std. End Support Wall	-	-	-	Howard Co. Std. #7 Conc. paving	
S-3	18" φ Std. End Support Wall	-	-	-	Howard County Std.	
S-4	27" φ Std. End Support	-	-	-	Howard Co. Std. #7 Conc. paving	
S-5	21" φ Std. End Support Wall	-	-	-	Howard County Std.	
S-6	48" φ "F" Endwall	-	-	-	Howard Co. Std. #7 Conc. paving	
S-7	48" φ "F" Endwall A-10	-	-	-	Howard County Std.	

* See details sheet 7

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	R.C.P. CI. IV	156'
18"	R.C.P. CI. IV	76'
18"	R.C.P. CI. III	36'
21"	R.C.P. CI. IV	40'
21"	R.C.P. CI. III	50'
24"	R.C.P. CI. IV	563'
24"	R.C.P. CI. III	27'
27"	R.C.P. CI. III	50'
27"	R.C.P. CI. IV	44'
30"	R.C.P. CI. III	35'
48"	R.C.P. CI. IV	86'
48"	R.C.P. CI. III	57'

Note:
Revision 9-24-73
Revision of top and invert elevations, structures I-8 & I-9. Addition of Transition Schedule.
DEPARTMENT OF PUBLIC WORKS
D. M. McKeand
CHIEF, BUREAU OF HIGHWAYS 11/1/73 DATE

BENCH MARK SCHEDULE		
NO	DESCRIPTION	ELEVATION
1	Spike set in root of 8" Poplar	451.32
4	Spike set in root of 30" Oak	453.86
5	Spike set in root of 20" Poplar	434.26
6	"X" in top of curb @ traverse station 505	445.85
7	Chiseled triangle w/punch hole top curb - traverse sta. 011	465.02
9	Spike in G. & E. Pole # 222081	420.75
10	2 Nails in root 20" Poplar	434.38

TRANSITION SCHEDULE						
STATION	LEFT BOT. OF CURB	LEFT MEDIAN BOT. CURB	RIGHT MEDIAN BOT. CURB	P.G.L.	RIGHT BOT. OF CURB	
138+50	433.53	433.92	433.92	433.88	433.40	
138+75	433.42	433.92	433.92	433.88	433.42	
139+00	433.53	434.00	434.00	433.96	433.53	
139+25	433.73	434.17	434.17	434.13	433.73	
139+50	434.00	434.41	434.44	434.37	434.00	
139+75	434.40	434.73	434.82	434.69	434.31	
140+00	434.94	435.14	435.25	435.09	434.69	
140+25	435.52	435.59	435.80	435.57	435.19	
140+50	436.20	436.14	436.34	436.13	435.75	
140+75	436.97	436.78	437.00	436.78	436.40	
141+00	437.81	437.49	437.72	437.50	437.12	
141+25	438.73	438.28	438.55	438.30	437.87	
141+50	439.72	439.14	439.48	439.17	438.62	
141+75	440.81	440.10	440.53	440.14	439.97	
142+00	441.97	441.13	441.13	441.13	440.97	
142+25	443.21	442.42	442.30	442.30	441.97	

APPROVED
OFFICE OF PLANNING AND ZONING OF HOWARD COUNTY
DATE: MAY 21 1973
J.W.F.

Name Changed From Village of Hickory Ridge To:
VILLAGE OF CLARY'S FOREST
SECTION-I, AREA-I,
April 18, 1973

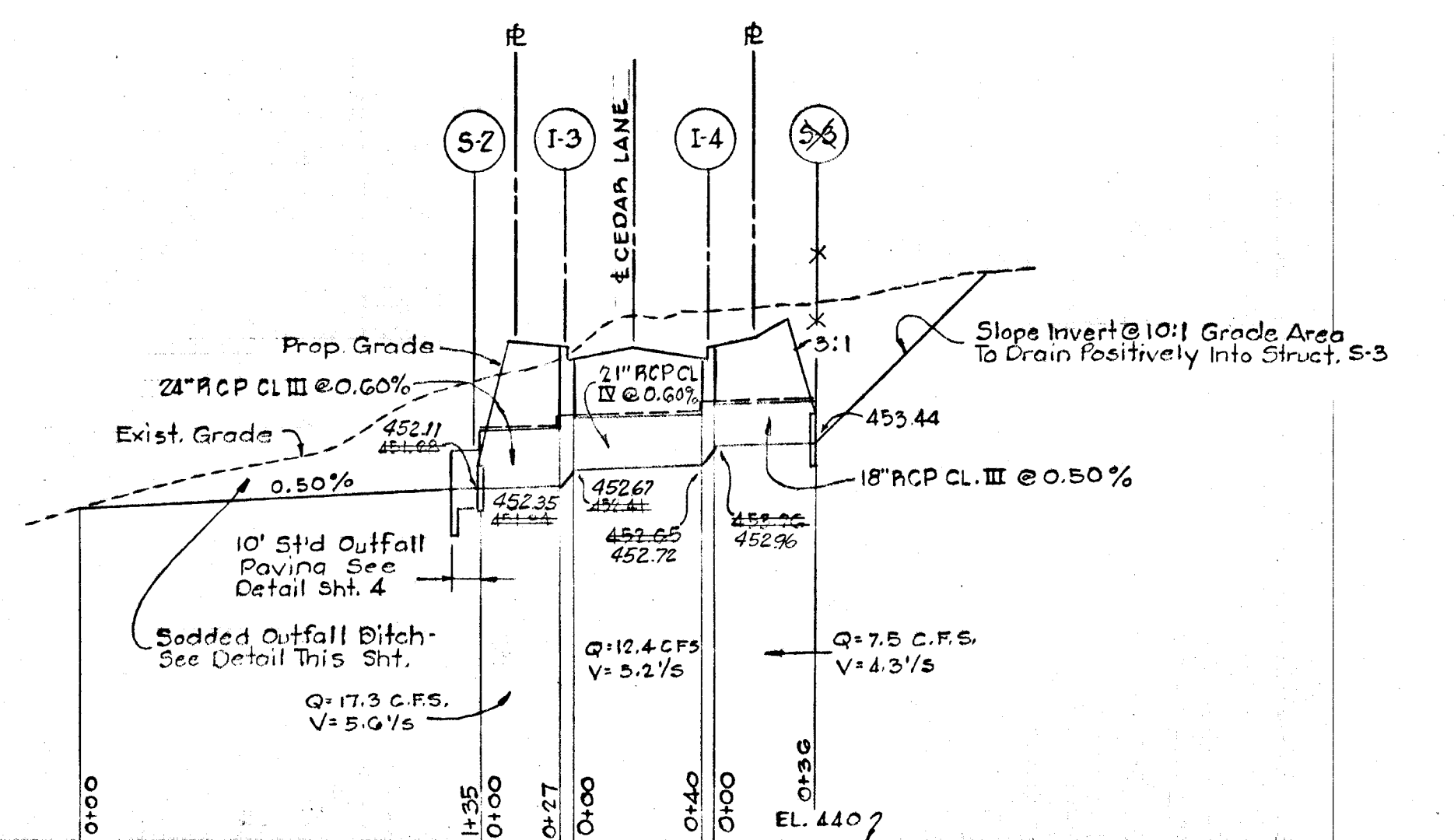
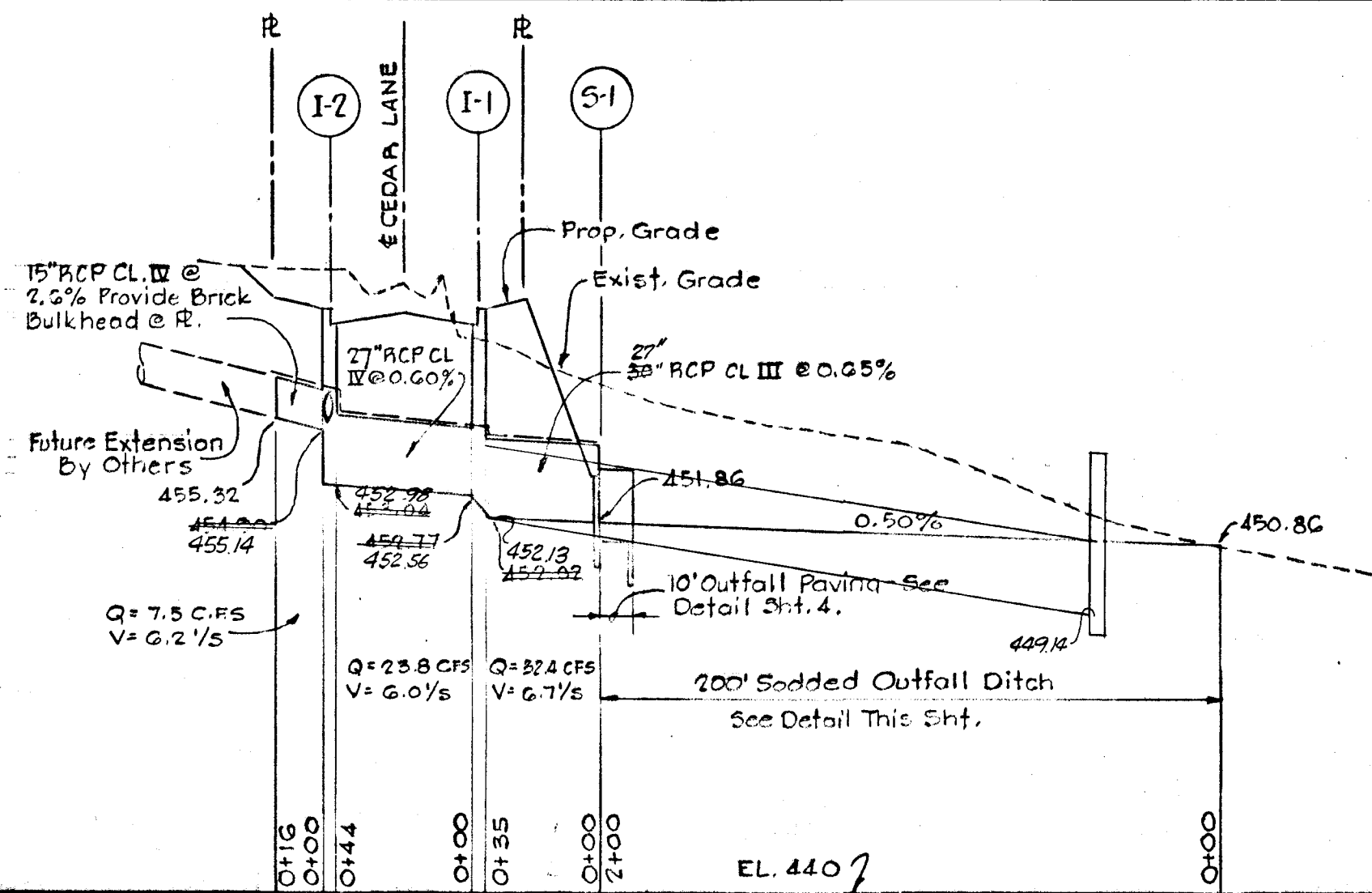
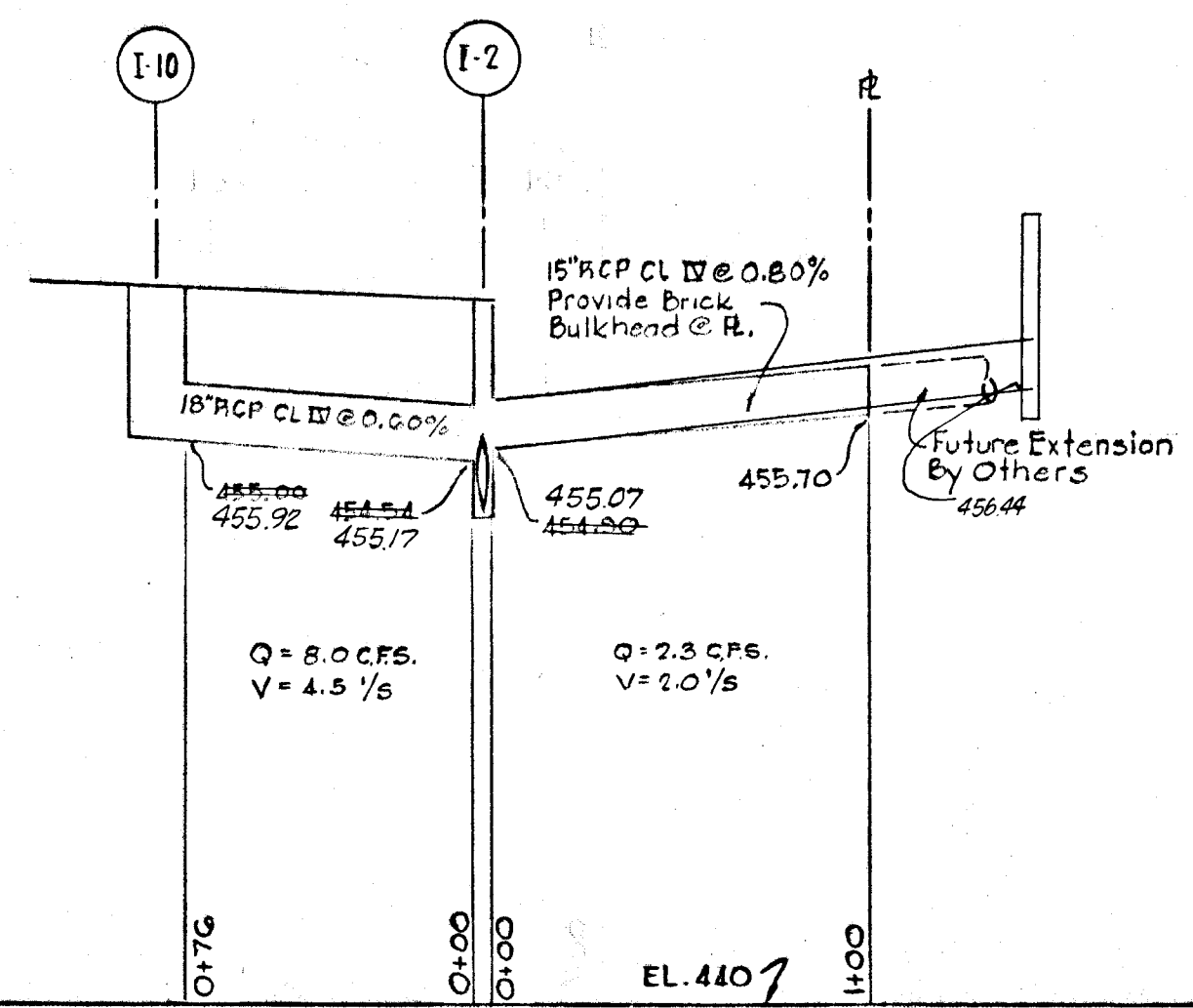
AS-BUILT SURVEY: VERIFIED BY EARL D. COLLINS, MD. REG. PROFESSIONAL ENGINEER NO. 9753



MACRIS-FOWLER ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS
817 SILVER SPRING AVE. ROCKVILLE, MD. 20850
(301) 585-0010

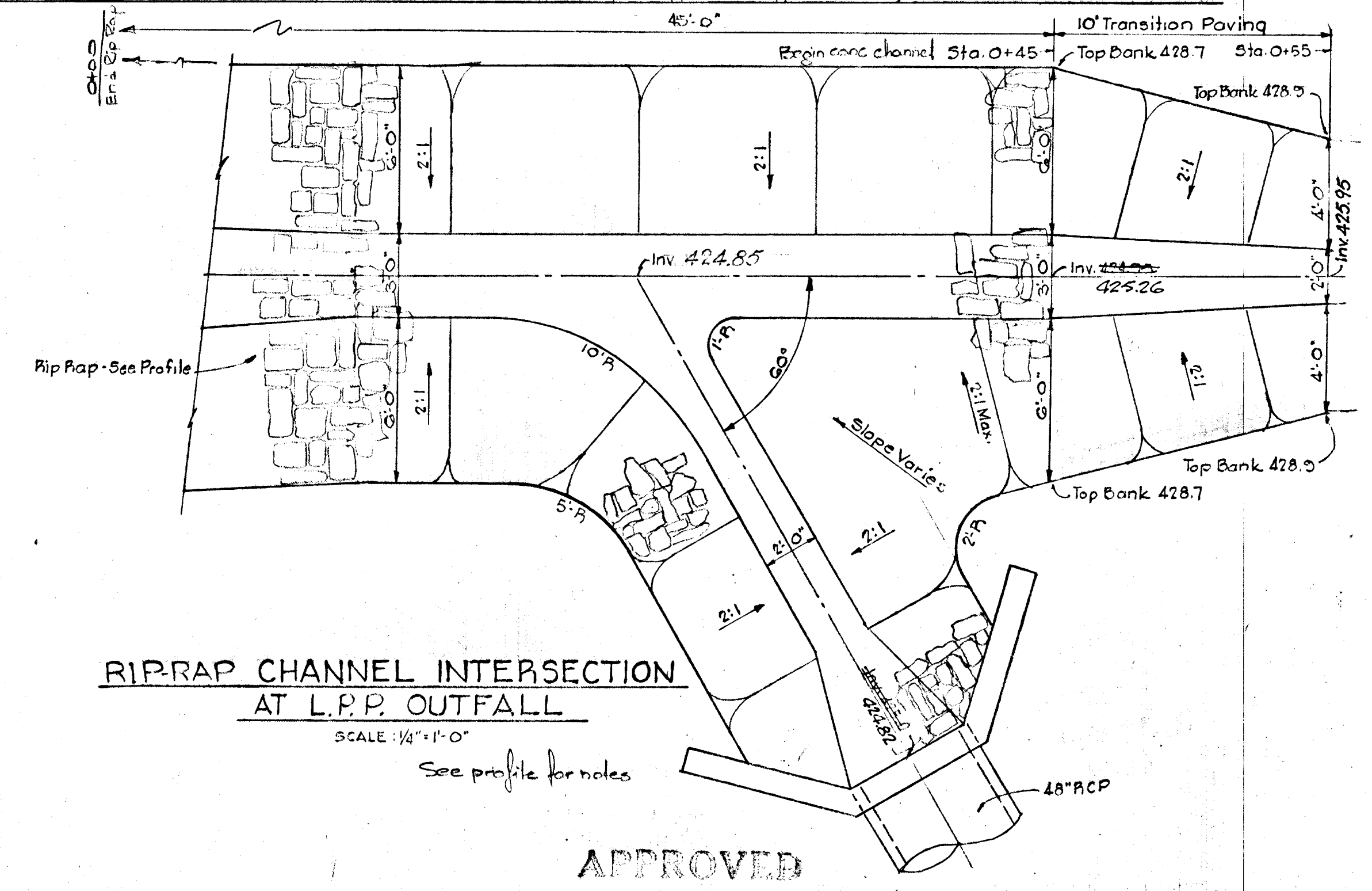
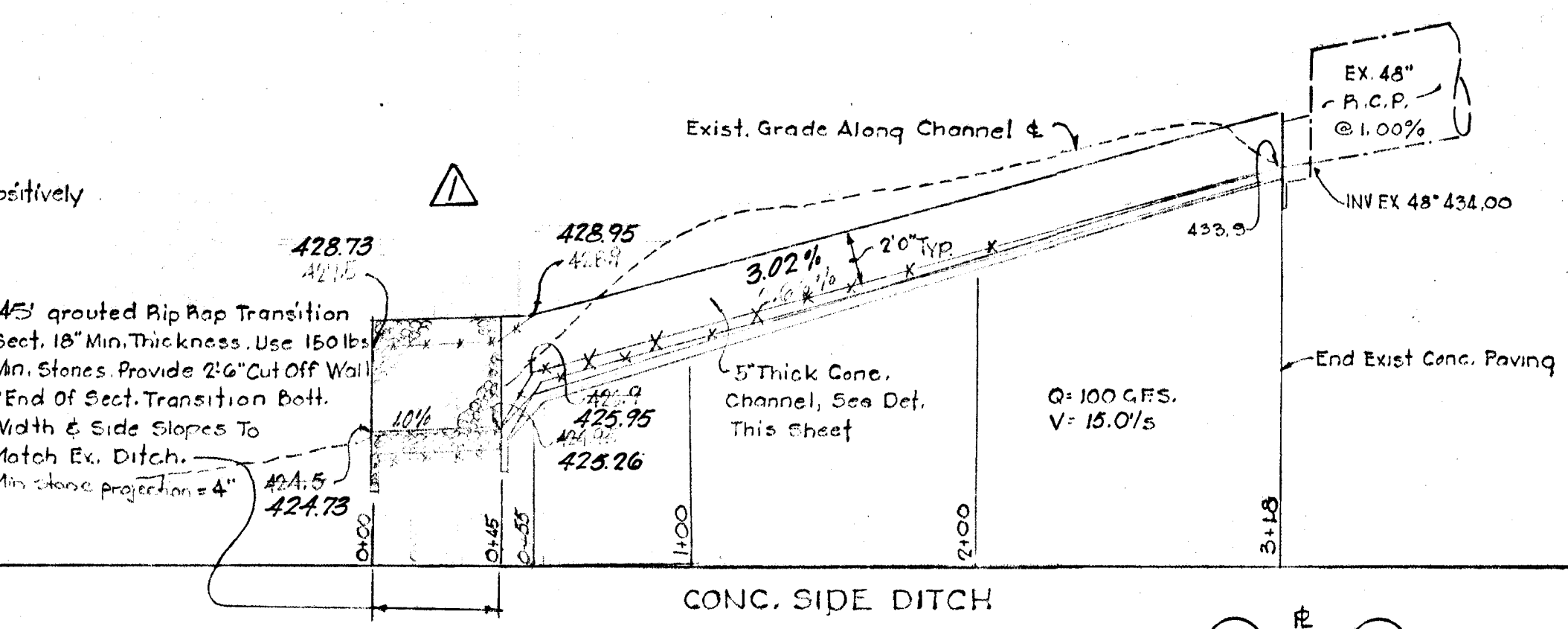
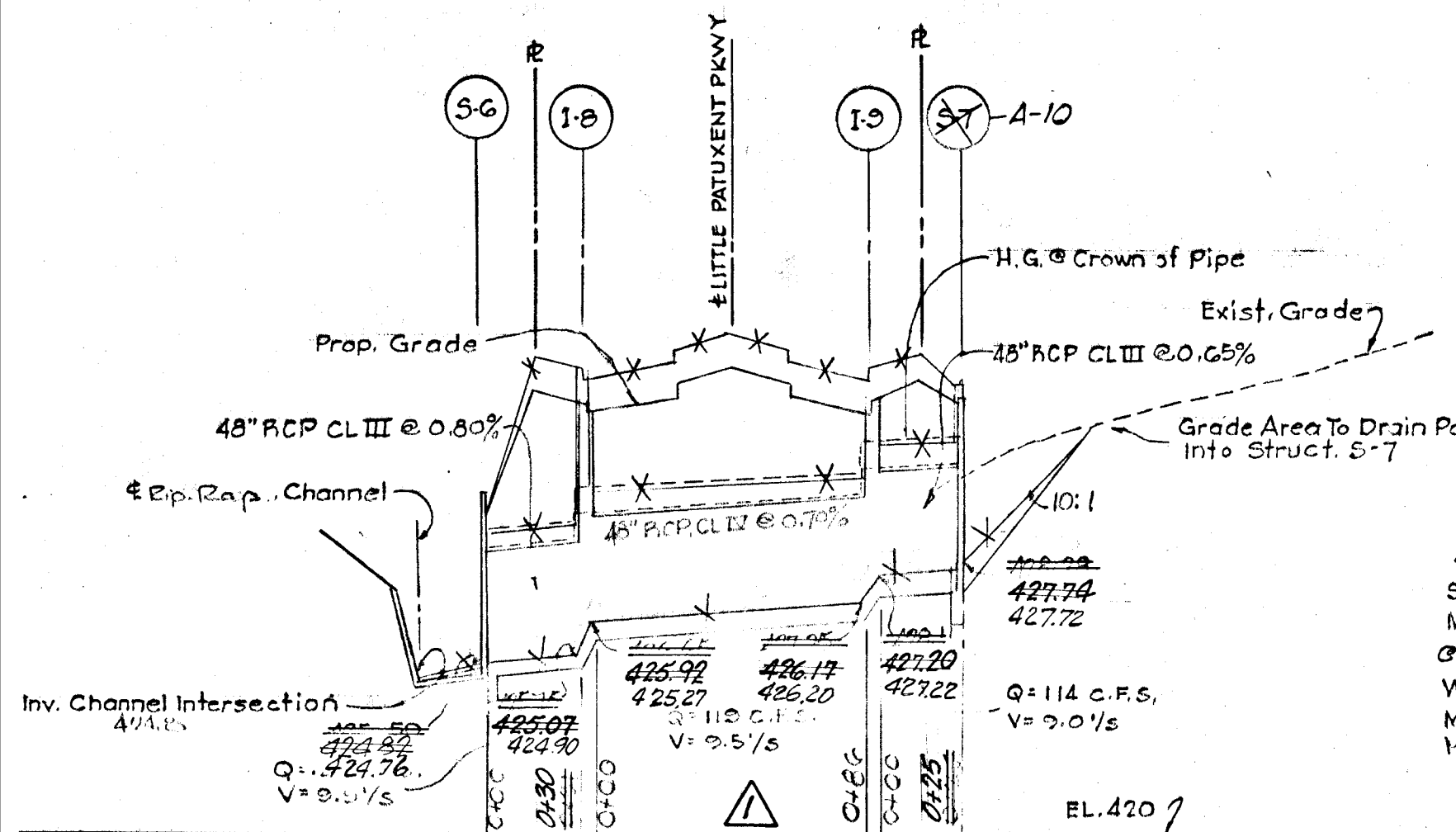
Rev. Date: Rev. No: Revision Description:
COLUMBIA MARYLAND
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYLAND
PROJECT AREA: SECTION I AREA 3
PROJECT TITLE: **ROADWAY DETAILS**
Prepared By: J.A.M. Scale: AS SHOWN Date: 5/4/71
Checked By: D.M. Date: 5/4/71
Approved: J.A.M. Date: 5/4/71

Daniel M. McKeand 5/24/73



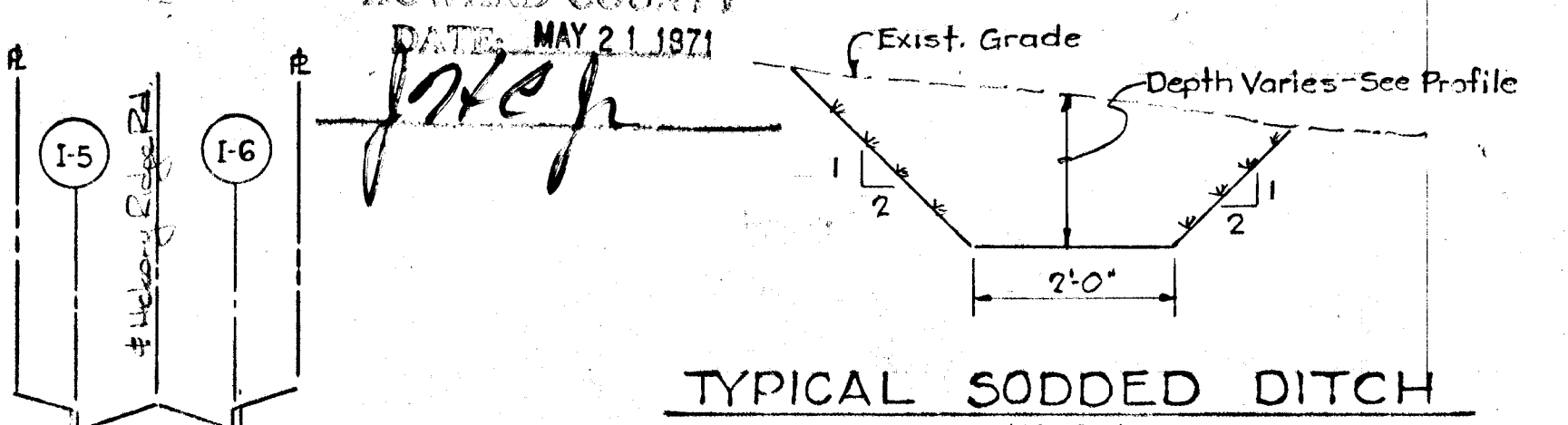
Note:
Revision Δ 9-24-73
Revision of street grade, as built drainage elevations

DEPARTMENT OF PUBLIC WORKS
J. N. McLeod 11/17/73 DATE
CHIEF, BUREAU OF HIGHWAYS

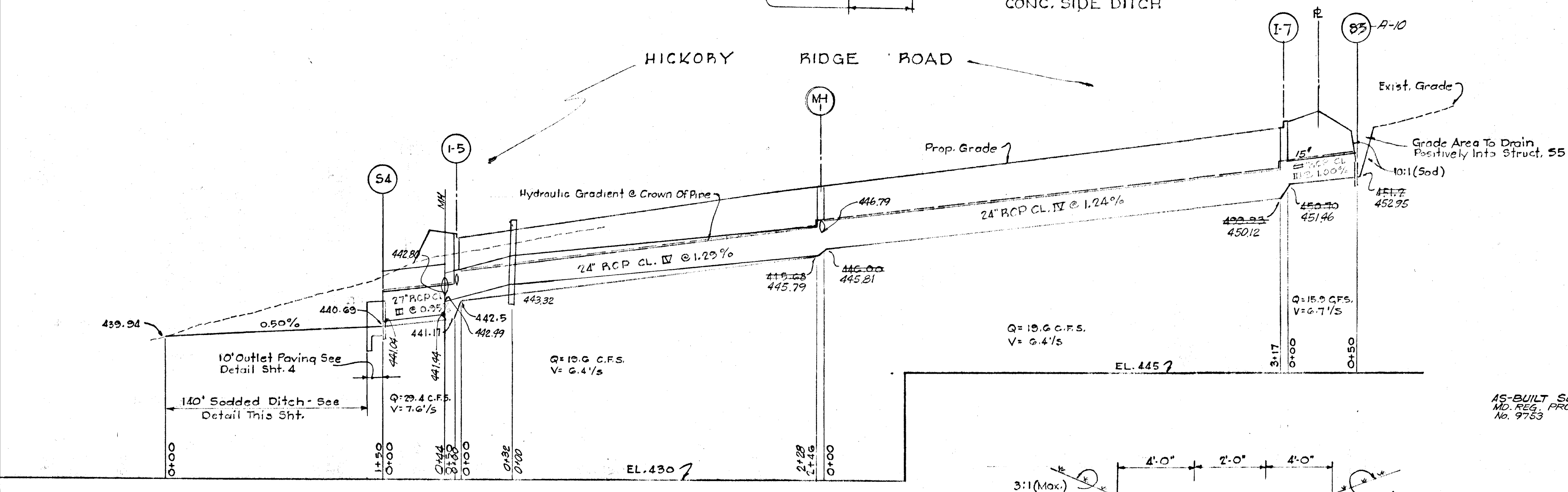


RIPRAP CHANNEL INTERSECTION
AT L.P.P. OUTFALL
SCALE: 1/4" = 1'-0"

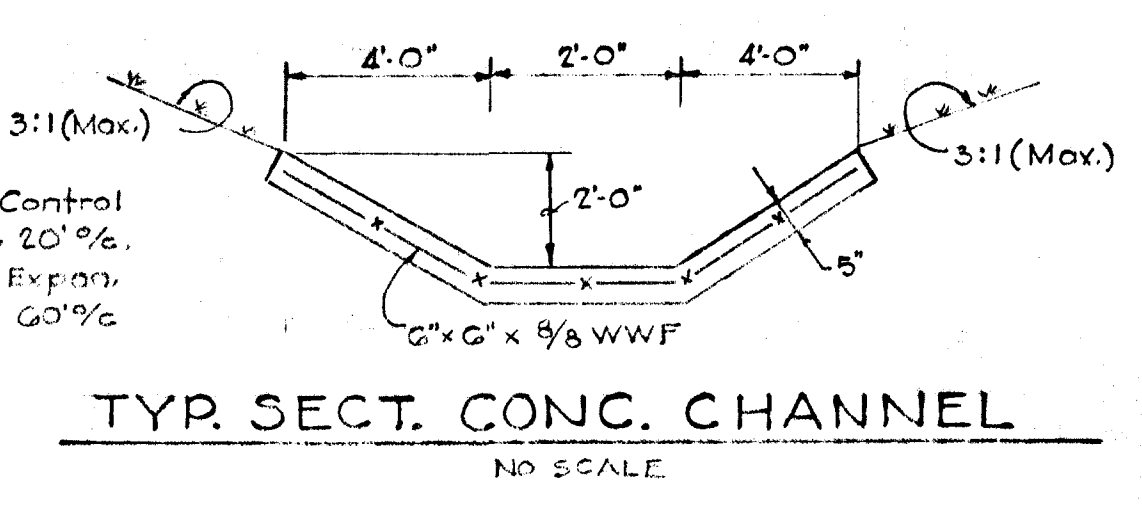
APPROVED
OFFICE OF PLANNING
AND ZONING OF
HOWARD COUNTY
DATE: MAY 21, 1971



TYPICAL SODDED DITCH
NO SCALE
VILLAGE OF CLARYS FOREST
SECTION I, AREA I,
Name Changed From
Village of Hickory Ridge
April 18, 1973



STORM DRAIN PROFILES
SCALE: 1" = 5' VERT.
1" = 50' HORIZ.



TYP. SECT. CONC. CHANNEL
NO SCALE

AS-BUILT SURVEY: BY EARL D. COLLINS
MD. REG. PROFESSIONAL ENGINEER
No. 9753



MACRIS-FOWLER
ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS
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SILVER SPRING, MD. 20910 ROCKVILLE, MD. 20850
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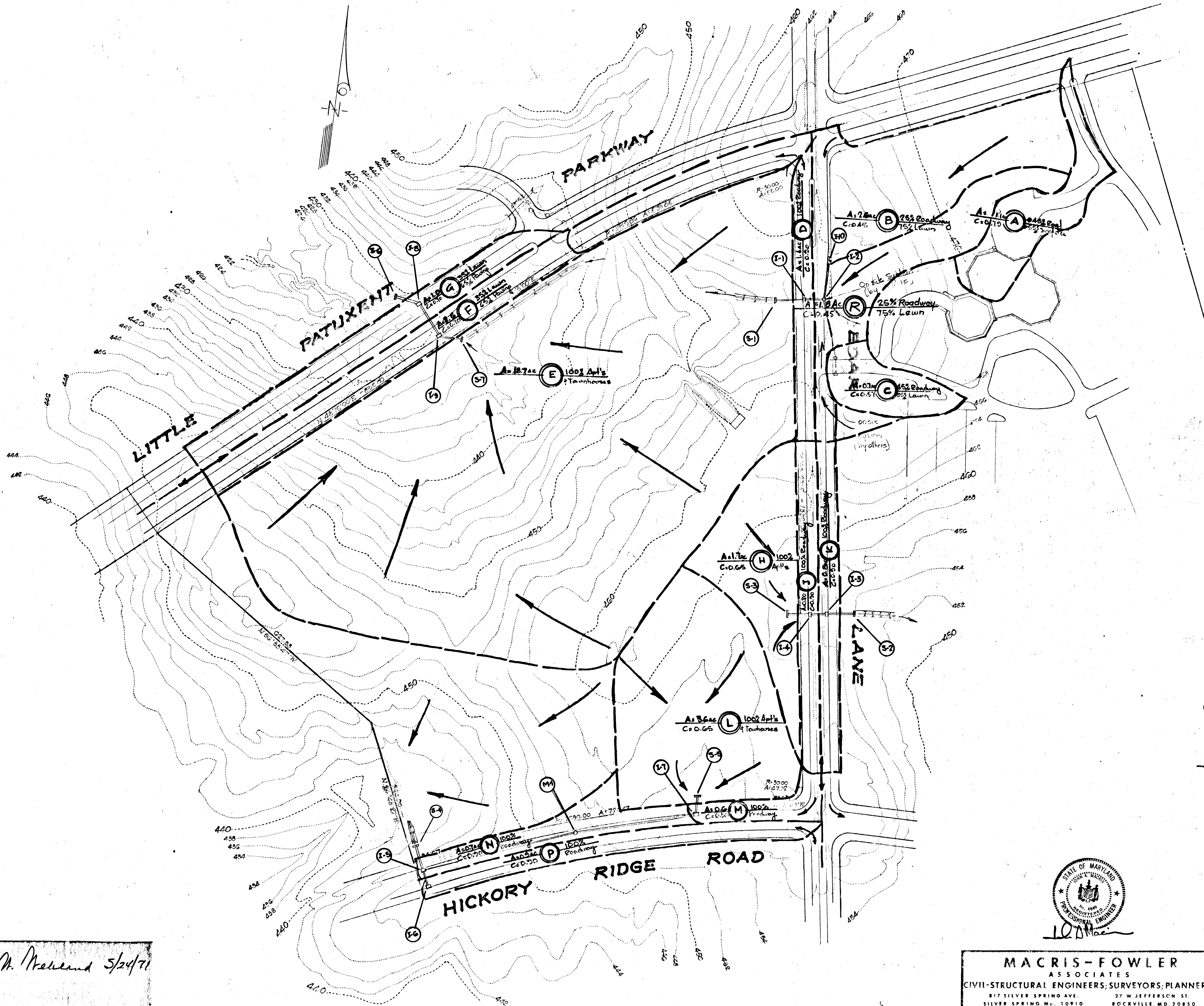
Rev. Date	Rev. No.	Revision Description

COLUMBIA
MARYLAND
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
GROWTH AND DEVELOPMENT
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS - BAY LURE, MARYLAND 21075

PROJECT AREA: SECTION I AREA I
PROJECT TITLE: DRAINAGE PROFILES & DETAILS

Drawn By: J.A.M. Scale: AS SHOWN Day No: 7010
Checked By: D.M. Date: 5-4-71 C.C.F. No.
Designed By: J.A.M. Approved:

Granville N. McLeod 5/24/71



Penelope M. McKeel 5/24/71

APPROVED
 OFFICE OF PLANNING
 AND ZONING OF
 HOWARD COUNTY
 DATE: MAY 21 1971
 Name Changed From
 Village of Hickory Ridge
 VILLAGE OF CLARY'S FOREST
 SECTION-1, AREA-1,
 April 18, 1973



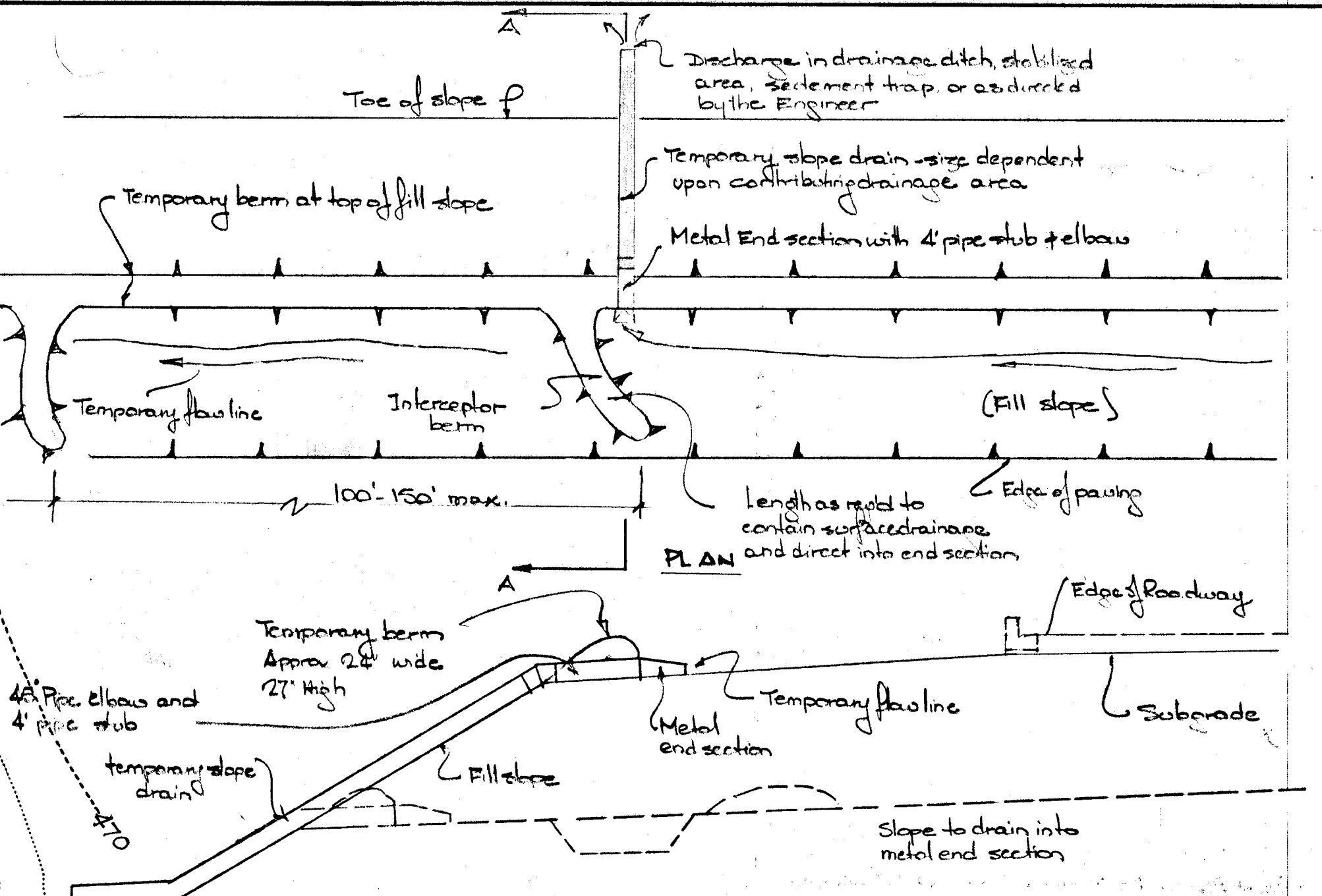
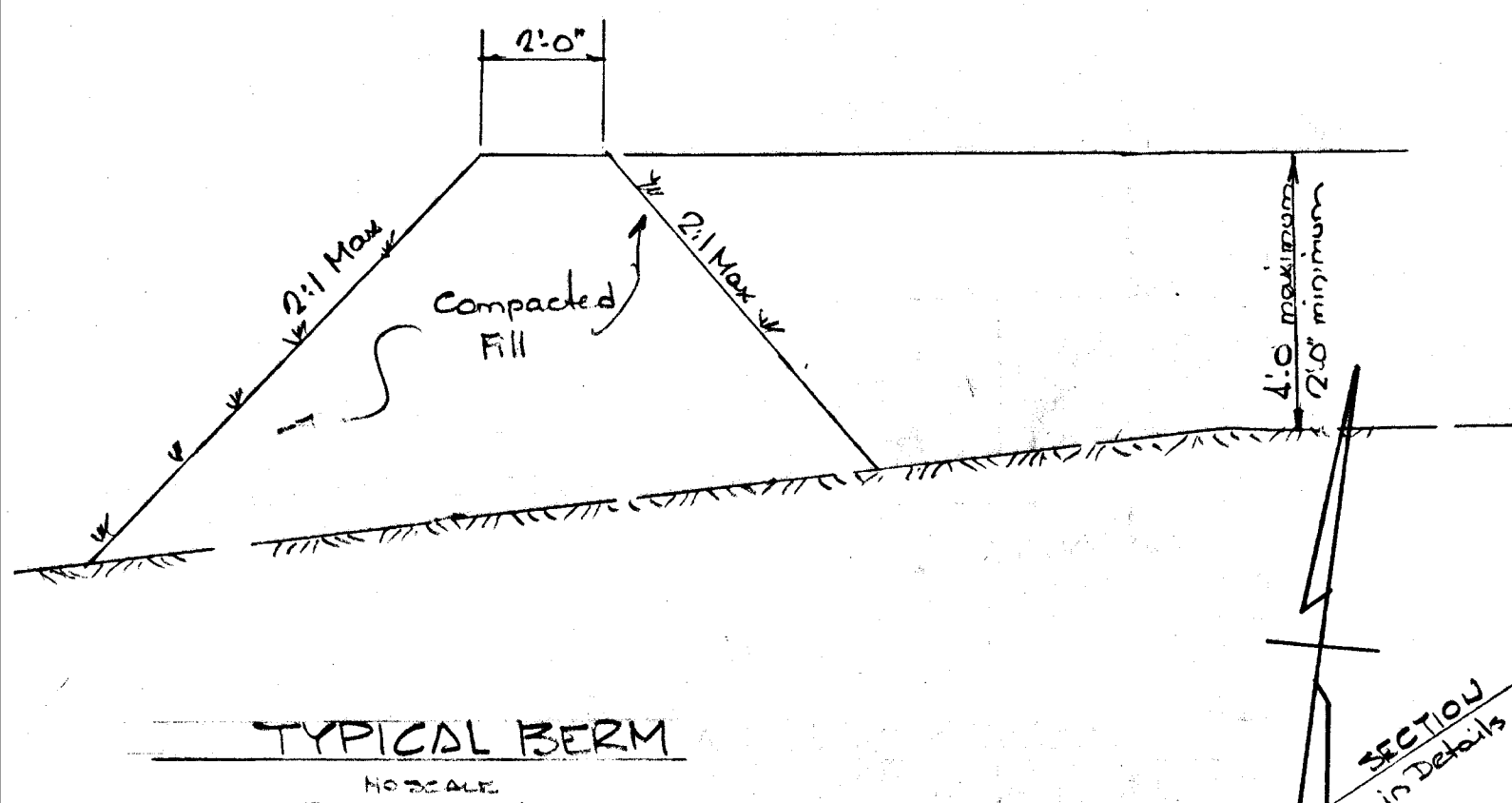
MACRIS-FOWLER
 ASSOCIATES
 CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS
 817 SILVER SPRING AVE. SILVER SPRING, MD. 20910
 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850
 (301) 585-0031 (301) 742-3858

Rev. No.	Rev. No.	Revision Description
1		

COLUMBIA
 MARYLAND
 5TH ELECTION DISTRICT-HOWARD COUNTY, MARYLAND
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 COLUMBIA, MARYLAND

PROJECT AREA: SECTION-1, AREA-1
VILLAGE OF HICKORY RIDGE
DRAINAGE AREA MAP

Drawn by: J.A.M.	Scale: 1"=100'	Draw. No. 9 of 10
Checked by: D.M.	Date: 5-5-71	C.C. No.
Approved by: J.A.M.	Approved:	



TYPICAL TEMPORARY SLOPE DRAIN
(FOR FILL SLOPES)
NO SCALE

APPROVED
OFFICE OF PLANNING
AND ZONING OF
HOWARD COUNTY
DATE: MAY 21, 1973
J. K. H.

NOTES

1. All sediment controls must be constructed prior to grading any grading.
2. No temporary sediment control structure may be removed or destroyed without approval of the Howard Soil Conservation District.
3. Area to be seeded within road R/W's shall use a seed mixture as follows: Annual ryegrass (20%), Kentucky blue grass (20%) & Kentucky 31 Fescue (60%) at the rate of 200#/A. Sow with mechanical spreader rake, minimum of two (2) passes with York Pike, cover & compact with cultipacker. Surface preparation to include ground limestone over topsoil surface area at the rate of 1/2 T/A (20%/1000#) commercial fertilizer (5-10-10) at the rate of 3/4 T/A (35%/1000#) & super-phosphate at the rate of 600#/A. (15%/1000#) + lime @ 1 ton/acre.
4. The Contractor shall notify the Howard Soil Conservation District 24 hours prior to commencement of construction. 465-2180
5. Mulching - mulch with unweathered small grain straw at rate of 1-1 1/2 ton/acre. Tie down with asphalt binder per standards & specifications for soil erosion and sediment control in urbanizing areas (page 3.201 - item G)

Name Changed From
Village of Hickory Ridge
To:
VILLAGE OF CLARY'S FOREST
SECTION-1, AREA-1,
April 18, 1973

Note
FOR SCHEDULE OF CONSTRUCTION, SEE SHEET 1

CERTIFICATION BY THE PROFESSIONAL ENGINEER:
I certify that the plan of development & the plan for control of silt & erosion meets the requirements, standards & specs. of the Howard Soil Conservation District.
(Seal) *J. A. Macris* Signature Date 5-17-71

CERTIFICATION BY THE DEVELOPER:
I certify that all development &/or construction will be done according to this plan of development & plan of silt & sediment control.
(Seal) *Richard W. Woodman* Signature Date

This development plan is approved for soil erosion & sediment control by the Howard Soil Conservation District.
Reviewed *John W. Lehr* 5-21-71 Date
Approved *Robert B. Campbell* 5/21/71 Date
Howard Soil Conservation Dist.



MACRIS-FOWLER
ASSOCIATES
CIVIL-STRUCTURAL ENGINEERS, SURVEYORS, PLANNERS
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(301) 585-0020
27 W. JEFFERSON ST. ROCKVILLE, MD. 20850
(301) 762-3818

Rev. No.	Rev. Date	Revision Description

COLUMBIA
MARYLAND
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CLARY'S FOREST, BALTIMORE, MARYLAND 21210
PROJECT AREA: SECTION 1
VILLAGE OF HICKORY RIDGE
PROJECT TITLE:
SEDIMENT CONTROL PLAN

Des. By: J.A.M.	Scale: As Shown	Draw. No. 5 of 5
Des. By: J.M.D.	Date: 5/1/71	CCT. No.
Chk. By: J.A.M.	Approved:	

PROPERTY OF HOWARD COUNTY
Granville H. Woodard 5/24/71

PLAN
SCALE: 1"=100'