

VICINITY MAP
Scale: 1" = 2000'

GENERAL NOTES:

1. All Building Restriction Lines shall conform to the F.D.P. criteria, for phase 13G
2. All 50' R/W Roads are designed for 25 MPH
60' R/W Road is designed for 35 MPH
3. Traffic Note: All traffic control services, parking & signing to be done in accordance with the Manual of Uniform Traffic Control Devices, 1971 Edition.
4. Minimum Lot Size: 6500 Sq. Ft.
5. Topography compiled from plans prepared by Maps, Inc.
6. Public Water & Sewer Systems to be used
7. All proposed Roads to be public.

40' Dedicated to Howard County for purposes of a public road.

MATZ, CHILDS & ASSOCIATES, INC.
1020 CROWNE BRIDGE ROAD
BALTIMORE, MARYLAND 21204

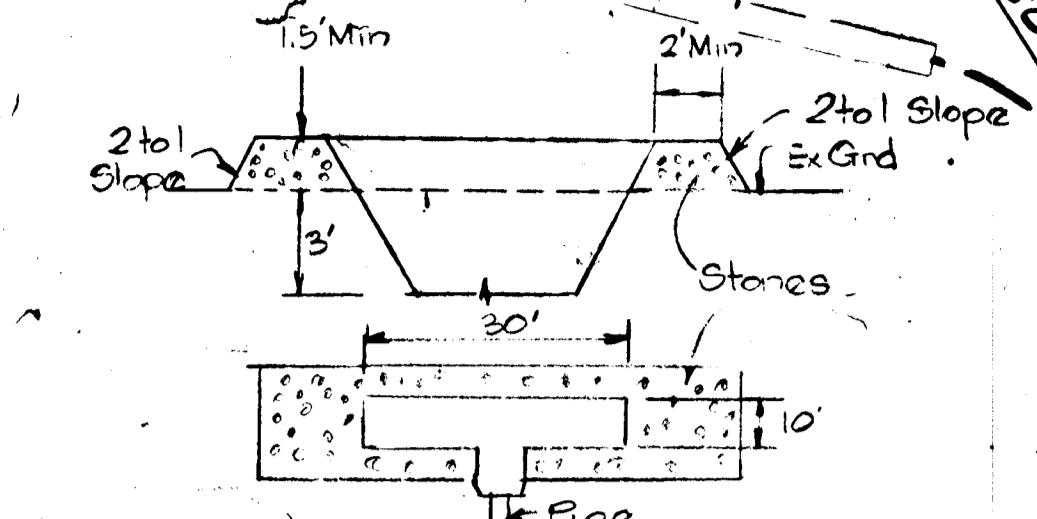
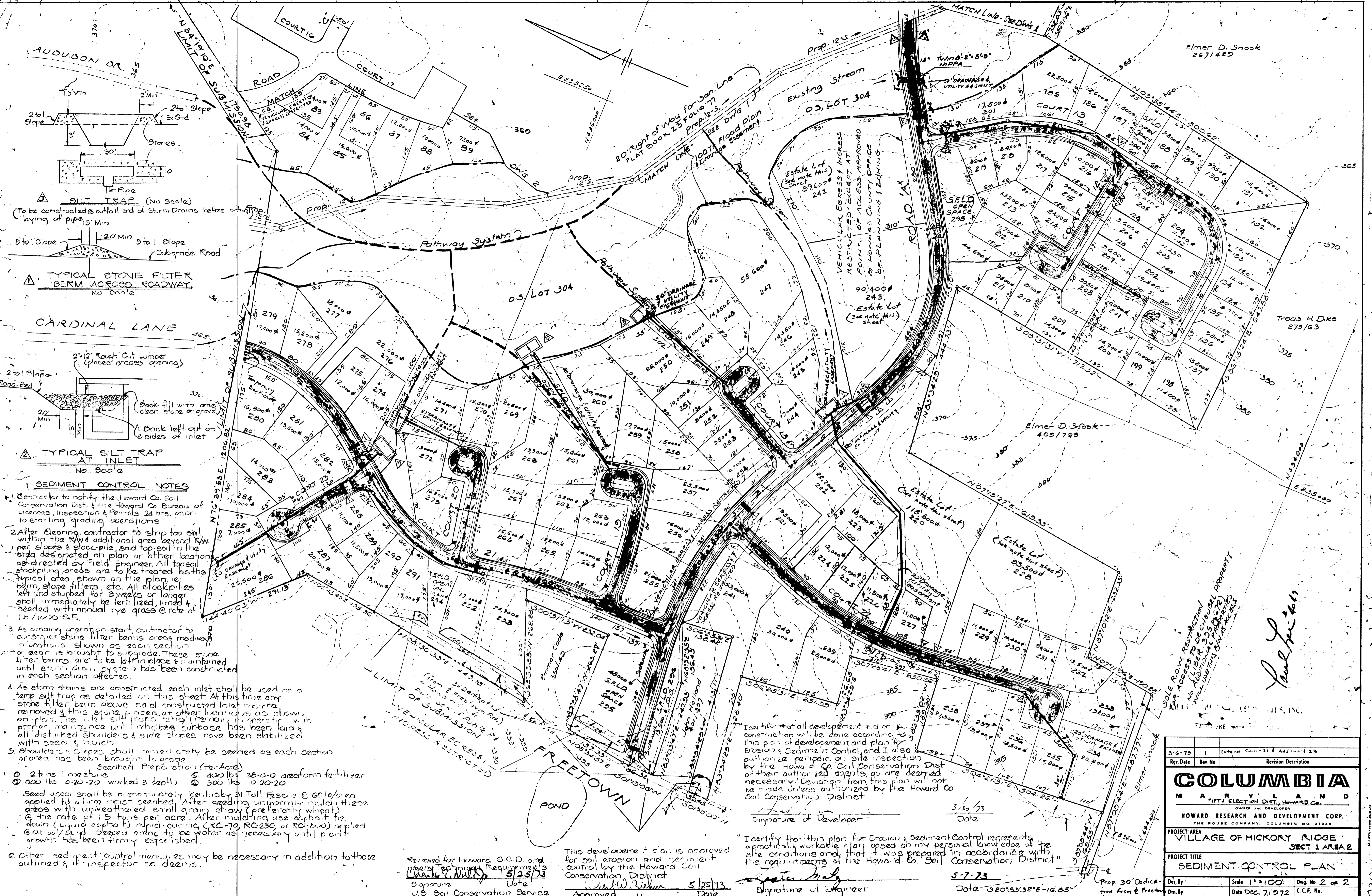
3-6-73	1	Extend East of Court 1, move curbs 16' 11" West 25'	
Rev. Date	Rev. No.	Revision Description	
COLUMBIA			
MARYLAND			
FIFTH ELECTION DISTRICT, HOWARD CO.			
OWNER AND DEVELOPER			
HOWARD RESEARCH AND DEVELOPMENT CORP.			
THE ROUSE COMPANY, COLUMBIA, MD. 21043			
PROJECT AREA			
VILLAGE OF HICKORY RIDGE			
SECT. 1 AREA 2			
PROJECT TITLE			
SEDIMENT CONTROL PLAN			
Des. By	Scale: 1" = 100'	Dwg. No. 1 of 2	
Des. By	Date: DEC 7, 1972	C.C.F. No.	
Chk. By	Approved		

Paul Lee 4/17

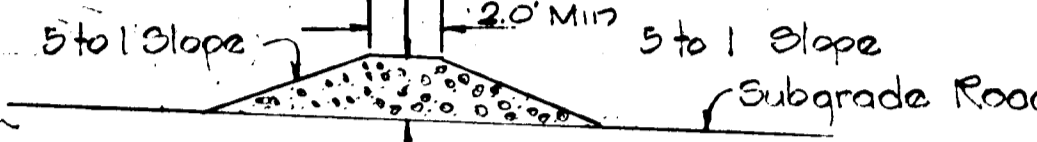
Wm. Runyon 322/175

Robert Dawson 419/609

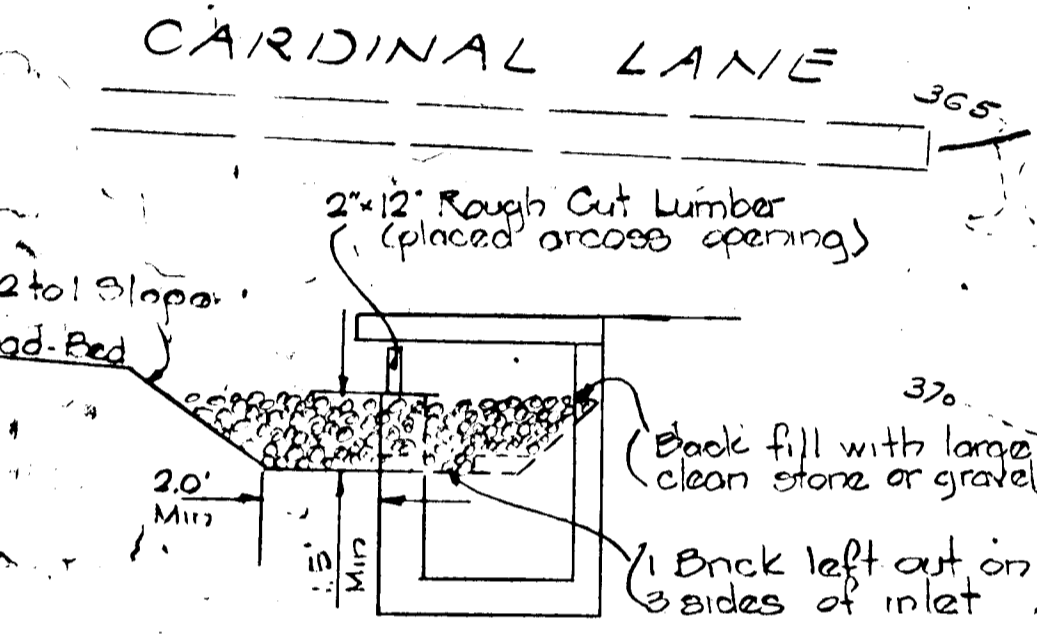
SEE SH. 2 FOR SEDIMENT CONTROL NOTES & DETAILS.



SILT TRAP (No Scale)
 (To be constructed at outfall end of Storm Drains before actual laying of pipe. 1.5' Min)



TYPICAL STONE FILTER BERM ACROSS ROADWAY (No Scale)



TYPICAL SILT TRAP AT INLET (No Scale)

SEDIMENT CONTROL NOTES

- Contractor to notify the Howard Co. Soil Conservation Dist. & the Howard Co. Bureau of Licenses, Inspection & Permits 24 hrs. prior to starting grading operations.
 - After clearing, contractor to strip top soil within the R/W additional area beyond R/W per slopes & stock-pile said top soil in the area designated on plan or other location as directed by Field Engineer. All topsoil stockpiling areas are to be treated as the typical area shown on the plan, i.e. berm, stone filters, etc. All stockpiles left undisturbed for 3 weeks or longer shall immediately be fertilized, limed & seeded with annual rye grass @ rate of 1 lb/1000 S.F.
 - As grading operation start, contractor to construct stone filter berms across roadway in locations shown as each section or area is brought to subgrade. These stone filter berms are to be left in place & maintained until storm drain system has been constructed in each section affected.
 - As storm drains are constructed each inlet shall be used as a temp silt trap as detailed on this sheet. At this time any stone filter berm above said constructed inlet may be removed & this stone placed at other locations as shown on plan. The inlet silt traps shall remain in operation with proper maintenance until roadway subbase has been laid & all disturbed shoulders & side slopes have been stabilized with seed & mulch.
 - Shoulders & slopes shall immediately be seeded as each section or area has been brought to grade.

Seeded Preparation (Per Acre)

 - 2 tons limestone
 - 400 lbs 36-0-0 areaform fertilizer
 - 600 lbs 0-20-20 worked 3" depth
 - 300 lbs 10-20-20

Seed used shall be predominantly Kentucky 31 Tall Fescue @ 60 lbs/area applied to a firm moist seedbed. After seeding uniformly mulch these areas with unweathered small grain straw (preferably wheat) @ the rate of 1.5 tons per acre. After mulching use asphalt fire down (Liquid asphalt) rapid-curing (RC-79, RC-280, or RC-800) applied @ 0.1 gal/sq yd. Seeded areas to be water as necessary until plant growth has been firmly established.
6. Other sediment control measures may be necessary in addition to those outlined & if inspector so deems.

Reviewed for Howard S.C.D. and State of Maryland Requirements
 Signature: *Charles E. Mullis* Date: 5/25/73
 Signature: _____ Date: _____
 U.S. Soil Conservation Service

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District
 Signature: *Robert W. Rielman* Date: 5/25/73
 Approved: _____ Date: _____
 Howard S.C.D.

I certify that all development and construction will be done according to this plan of development and plan for Erosion & Sediment Control and I also authorize periodic on site inspection by the Howard Co. Soil Conservation Dist. or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Co. Soil Conservation District.
 Signature of Developer: _____ Date: 3/30/73

I certify that this plan for Erosion & Sediment Control represents a practical & workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Co. Soil Conservation District.
 Signature of Engineer: _____ Date: 5-7-73
 Date: 5/25/73

3-6-73	Exdnd Court 21 & Add Court 23	Revision Description
Rev. Date	Rev. No.	
COLUMBIA		
M A R Y L A N D		
OWNER AND DEVELOPER		
HOWARD RESEARCH AND DEVELOPMENT CORP.		
THE HOUSE COMPANY, COLUMBIA, MD. 21043		
PROJECT AREA		
VILLAGE OF HICKORY RIDGE		
SECT. 1 AREA 2		
PROJECT TITLE		
SEDIMENT CONTROL PLAN		
Des. By	Scale 1"=100'	Dwg. No. 2 of 2
Des. By	Date DEC. 7, 1972	C.C.F. No.
Chk. By	Approved	

Sole Row Restriction
 No Access to De Civeval Property
 WILL BE MADE BY DEVELOPER

Paul J. ...

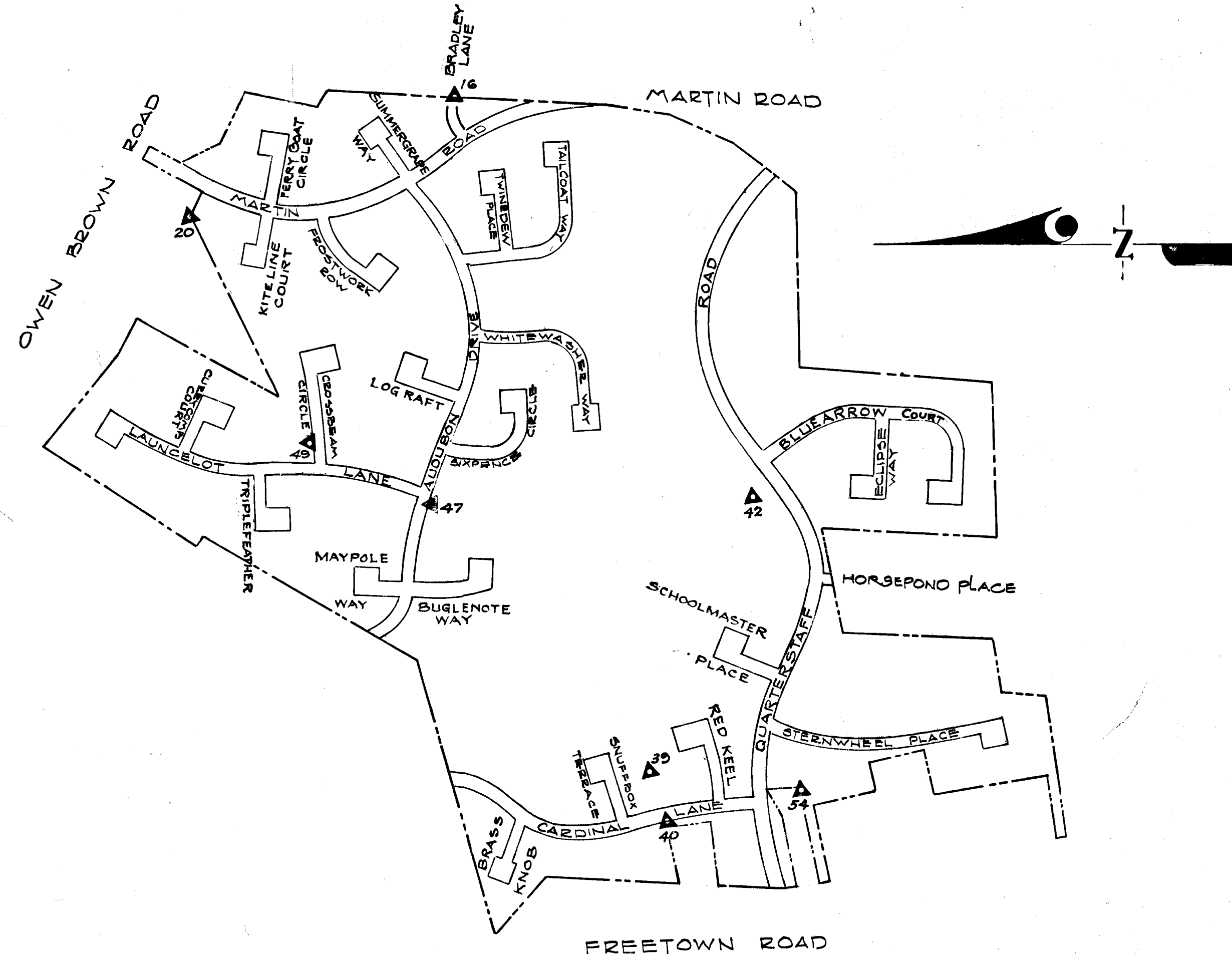
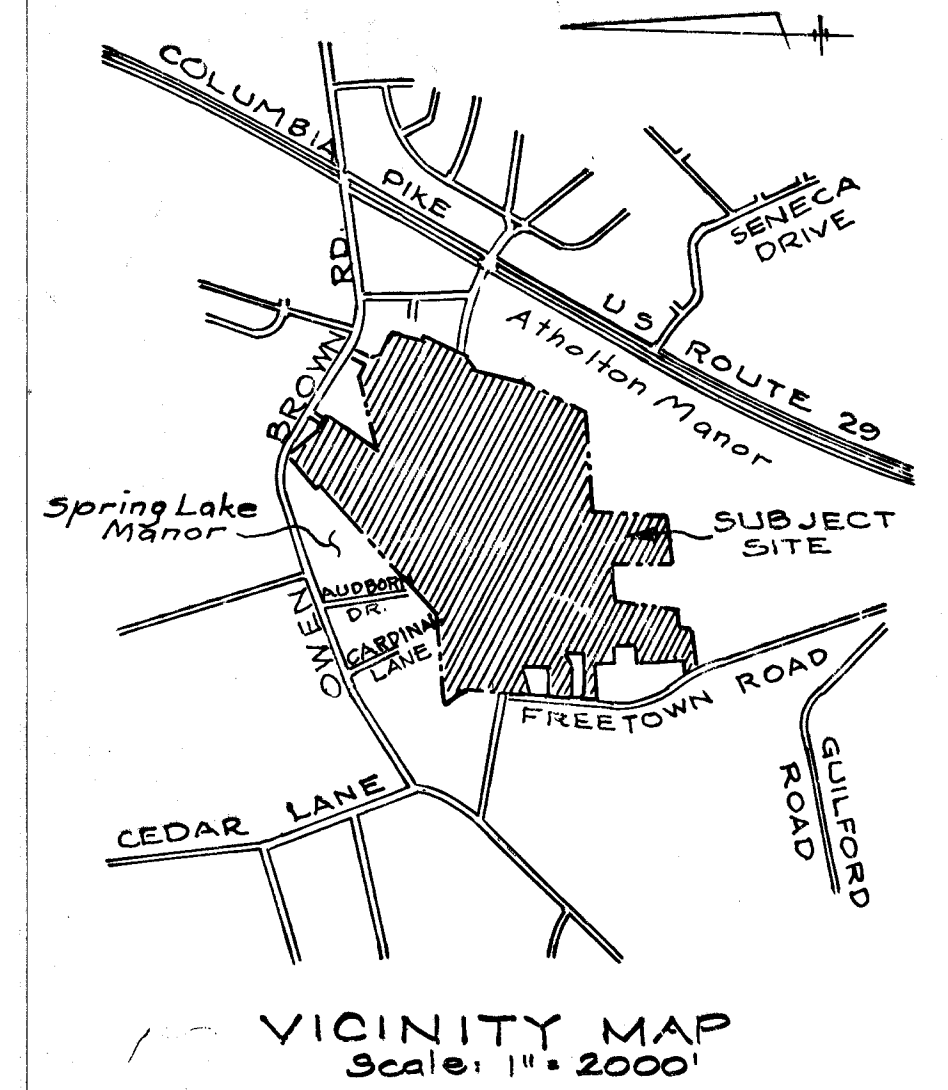
Elmer D. Snook
 267142D

Treas. H. Dike
 275/63

Elmer D. Snook
 409179B

INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	Title Sheet
2	Road Details & Typical Sections
3	Plan & Profile: Martin Road, Sta 0+ to 12+50
4	" " Kiteline Court, Frostwork ROW
5	" " Ferryboat Circle
6	" " Martin Rd, Sta 12+50 to 21+
7	" " Summergrape Way, Audubon Drive Sta 0+ to 9+
8	" " Twinedew Pl., Tailcoat Way
9	" " Sixpence Circle, Whitewasher Way
10	" " Audubon Drive Sta 9+ to 20+
11	" " Launcelot Lane Sta 0 to 12+
12	" " Crossbeam Circle, Log Raft
13	" " Currycomb Court, Triplefeather
14	" " Maypole Way, Buglenote Way
15	" " Quarterstaff Road Sta 0+ to 8+
16	" " Cardinal La., Snuffbox Terr., Red Keel
17	" " Cardinal Lane, Brass Knob
18	" " Sternwheel Place
19	" " Quarterstaff Rd, Sta 8+ to 19+, Schoolmaster Pl, Horspond Pl.
20	" " Bluearrow Court, Eclipse Way
21	" " Quarterstaff Road Sta 19+ to 32+
22	Storm Drain Plans: Kiteline Court, Currycomb Ct., Sternwhl Pl.
23	Storm Drain Plans: Snuffbox Terrace, Red Keel & Outfall
24	" " Profiles: Audubon Drive, Martin Rd.
25	" " : Martin Rd, Bluearrow Ct., Quarterstaff Rd
26	" " : Launcelot Lane, Easements N&E of Currycomb Ct.
27	" " : Tailcoat Way & Outfall
28	" " : Sternwheel Place & Outfall
29	Storm Drain Plan & Profile: Triplefeather, Maypole Way, Buglenote Way & Outfall
30	" " : Sixpence Cir, Audubon Dr, Whitewasher Way
31	Storm Drain Profiles: Brass Knob, Cardinal Lane
32	Storm Drain Profiles: Ferryboat Circle, Kiteline Court, Crossbeam Circle, Launcelot Lane & Outfall Channels
33	Storm Drain Details: Inlet Throats, Manholes & Miscellaneous
34	" " : Triple 8'-2" x 5'-0" M.P.P.A. Sta 20+40 Quarterstaff Rd.
35	" " : Junction Chambers
36	" " : Drainage Area Layout - 1" = 100'
37	" " : " " " " " " " " = 1" = 100'



GENERAL NOTES

- All work shall be performed in accordance with the Howard County Road Construction Code and Standard Specifications.
- All utility companies shall be notified 24 hours in advance of construction.
- 60' R/W residential streets are designed for 35 MPH traffic speed. 50' R/W residential streets are designed for 25 MPH traffic speed in accordance with A.A.S.H.O. standards.
- Brick bulkhead shall be installed in all storm drain stubs.
- All inlets shall be Howard County standards unless otherwise shown.
- All street curb returns shall have 30.3 radii unless otherwise noted.
- Approximate location of existing utilities are shown. The contractor shall take all necessary precaution to protect the existing utilities and to maintain uninterrupted service. Any damage incurred due to contractor's operation shall be repaired immediately at the contractor's expense.
- The contractor shall test pit existing utilities, where directed by the engineer.
- Contractor to notify the Howard County Soil Conservation District at least three days before starting work shown on these drawings.
- All disturbed slope areas to be stabilized as soon as grading is completed.
- All rain g. conc. for storm drain structures shall have min. 28 day strength of 3000 psi.
- Trees are to be protected against damage to the maximum extent reasonable. Trees which are to remain in streets and other rights of way will be marked by the engineer prior to the commencing of construction operations.
- Installation of Traffic Control devices, marking & signing shall be in accordance with the Manual of Uniform Traffic Control Devices, 1971 Edition.
- Storm drain trenches within road rights-of-way shall be backfilled and compacted in accordance with Howard County Road Code.
- Temporary, compacted, 18" high, Earth Fill Diversion Berm should be constructed above the lips of fill slopes on the R.O.W. concurrently with the initial grading and directed to undisturbed eod areas at the end of each day.
- All swales shall be seeded and tamped and all slopes shall be seeded or sodded in conjunction with the Howard County Soil Conservation District and the Howard County Planning Board Standards entitled "Standards and Specifications For Soil Erosion and Sediment Control in Urbanizing Areas."
- On all fills in dump areas, Reliance Plastic & Chemical Company "Flexible Tube Down Drains and Pans," or approved equal, shall be used.

BENCH MARKS

B.M. 16 Elev. 387.73 1/2" Pipe 145 ± Left Sta. 15+00 ± Martin Rd.	B.M. 40 Elev. 383.75 3/4" Pipe 20 ± Left Sta. 4+15 ± Cardinal Lane
B.M. 20 Elev. 392.28 Iron Pin 150 ± Right Sta. 2+85 ± Martin Rd.	B.M. 42 Elev. 372.98 1/2" Pipe 120 ± Left Sta. 17+45 ± Quarterstaff Road
B.M. 39 Elev. 372.55 Stone 200 ± Right Sta. 4+30 ± Cardinal Lane	B.M. 54 Elev. 397.455 1/2" Pipe 170 ± Right Sta. 3+90 ± Quarterstaff Road
B.M. 49 Elev. 369.56 35 ± Left Sta. 1+95 ± Crossbeam Circle	B.M. 47 Elev. 361.91 3/4" Pipe 18 ± Left Sta. 14+45 ± Audubon Lane

LOCATION PLAN

Scale: 1" = 400'

APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE: 5/25/73

CERTIFICATION BY THE DEVELOPER:

"I certify that all development and/or construction will be done according to this plan of development and plan for Erosion & 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 made unless authorized by the Howard County Soil Conservation District."

Axel F. Lee 3/30/73
Signature of Developer Date

Reviewed for Howard Soil Conservation District and meets technical requirements
Charles Edward Neill Jr. 5/25/73
Signature Date

U.S. Soil Conservation District
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Soil Conservation District

Approved Robert W. Zickner 5/25/73
Howard Soil Conservation District Date

SECTION 1 AREA 2
COLUMBIA
VILLAGE OF HICKORY RIDGE
HOWARD COUNTY, MARYLAND
Election District No 5
Date: 5/7/73 Scale as shown
ROADWAY & STORM DRAINS
PLANS & DETAILS

MCA CONSULTING ENGINEERS

Paul Lee
PAUL LEE
Registered Engineer
4047

DEPARTMENT OF PUBLIC WORKS
W. O. Falbert 5-29-73
CHIEF, BUREAU OF HIGHWAYS DATE

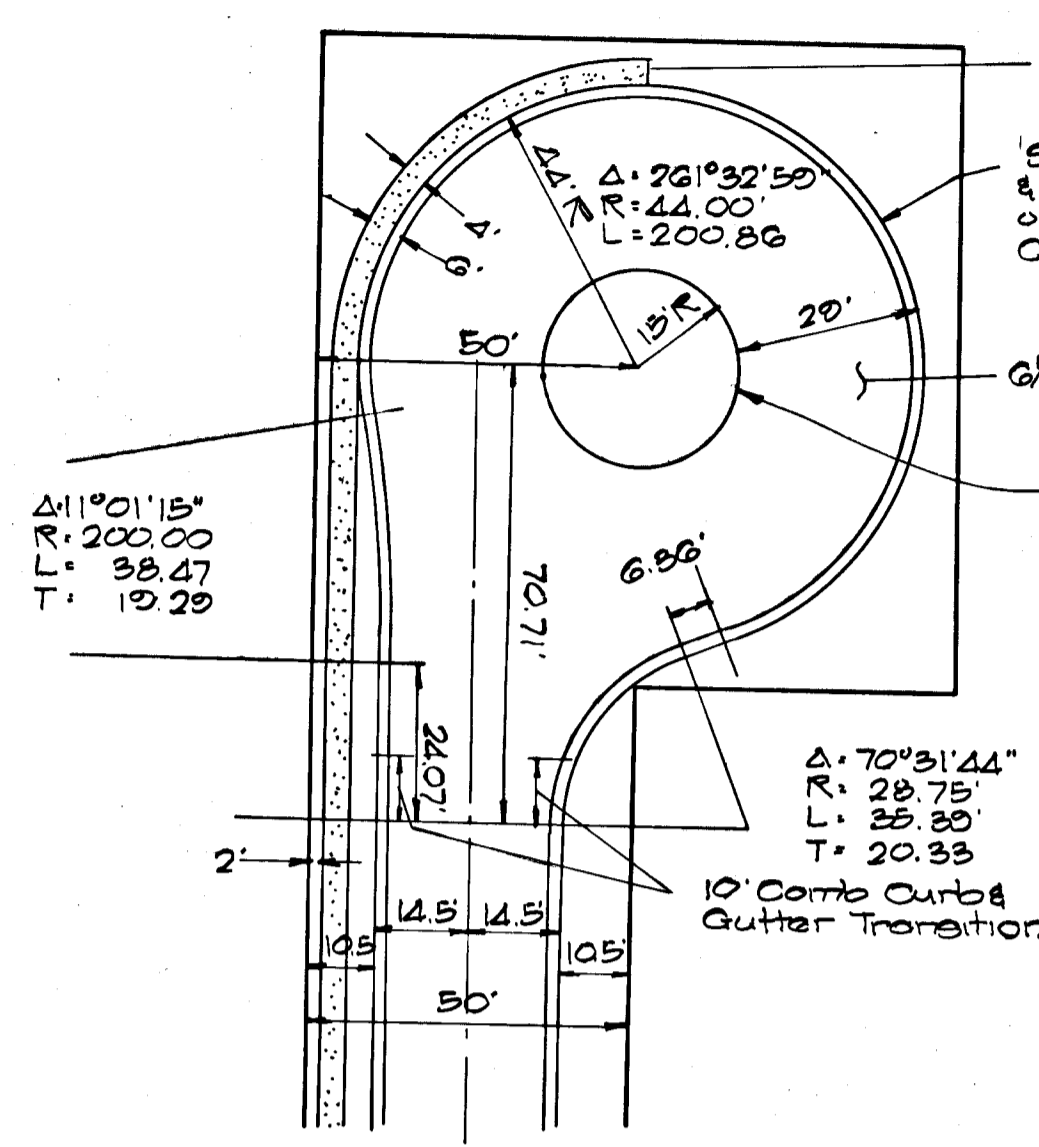
OFFICE OF PLANNING & ZONING
R. H. Crawford 5/25/73
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
& TRANSPORTATION PLANNING

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

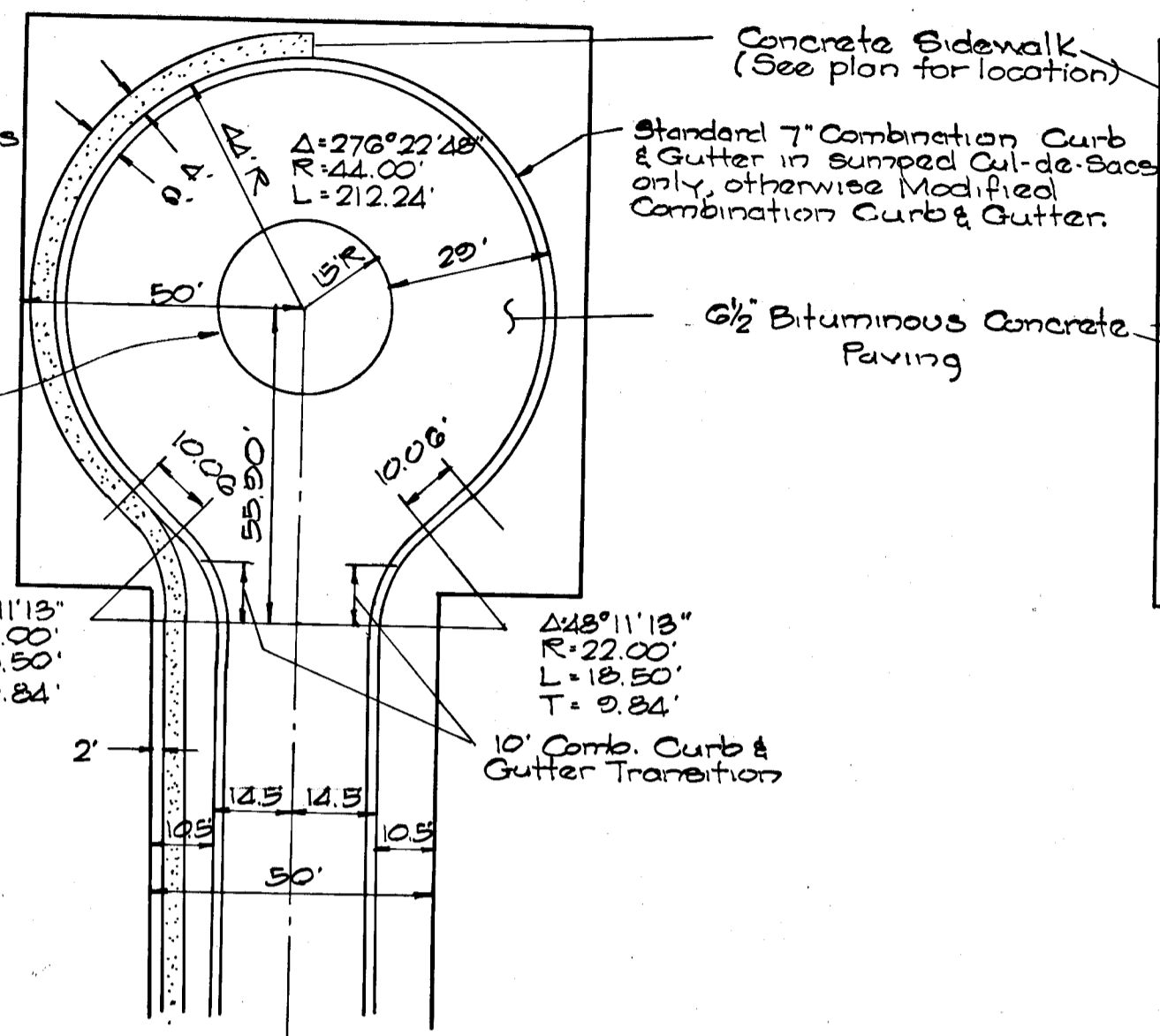
Note: All dimensions are to the back of curb. Total length of linear profile: 308.15'

Note: All dimensions are to the back of curb. Total length of linear profile: 200.86'

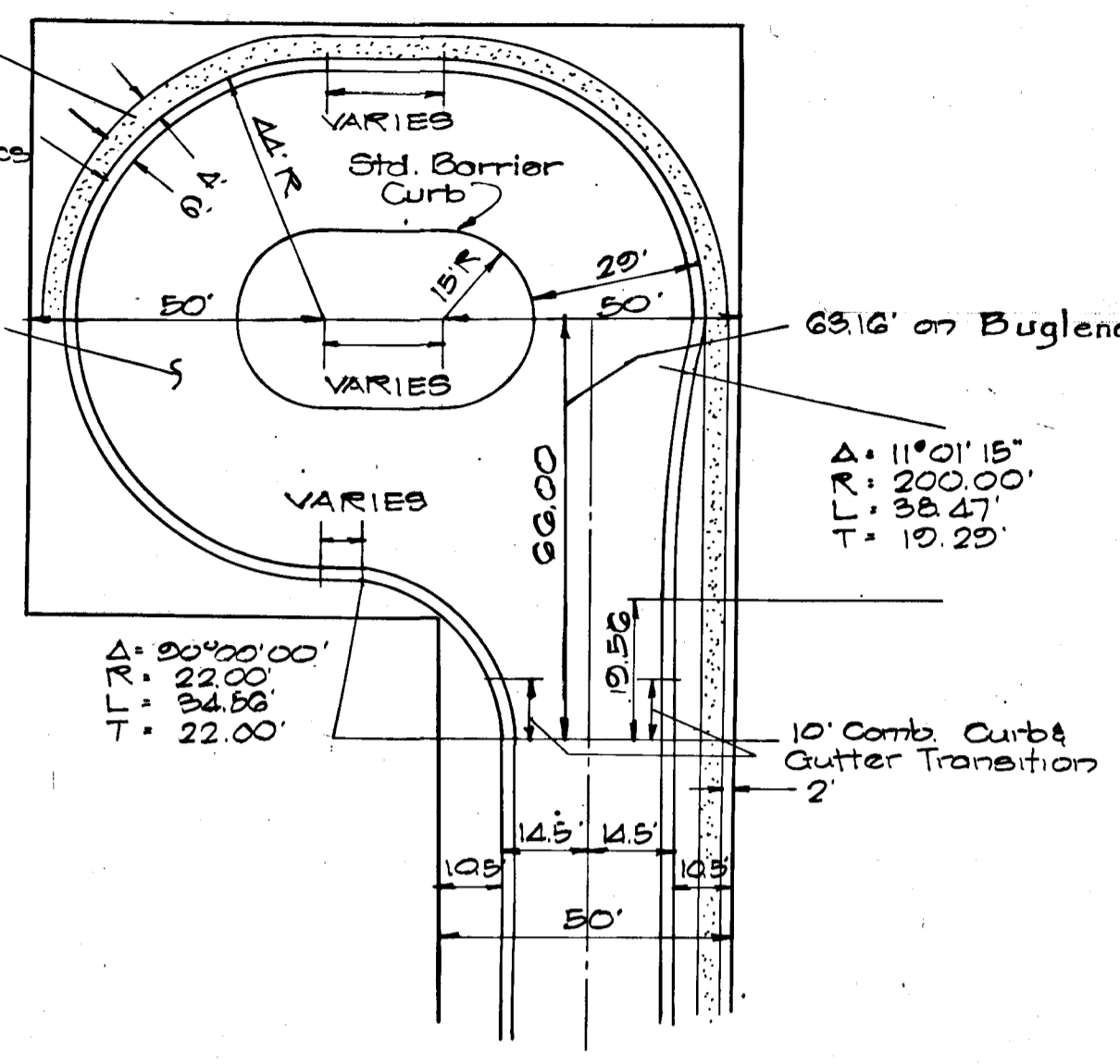
Note: All dimensions are to the back of curb. Total length of linear profile: Varies.



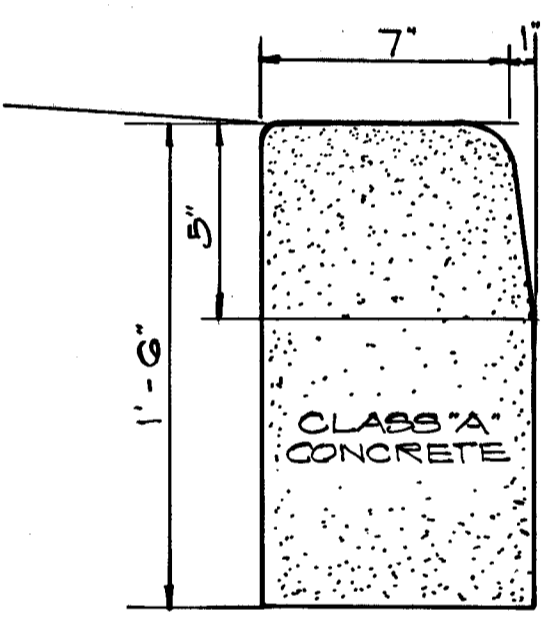
TYPICAL OFFSET CUL-DE-SAC DETAIL
Scale 1"=30'



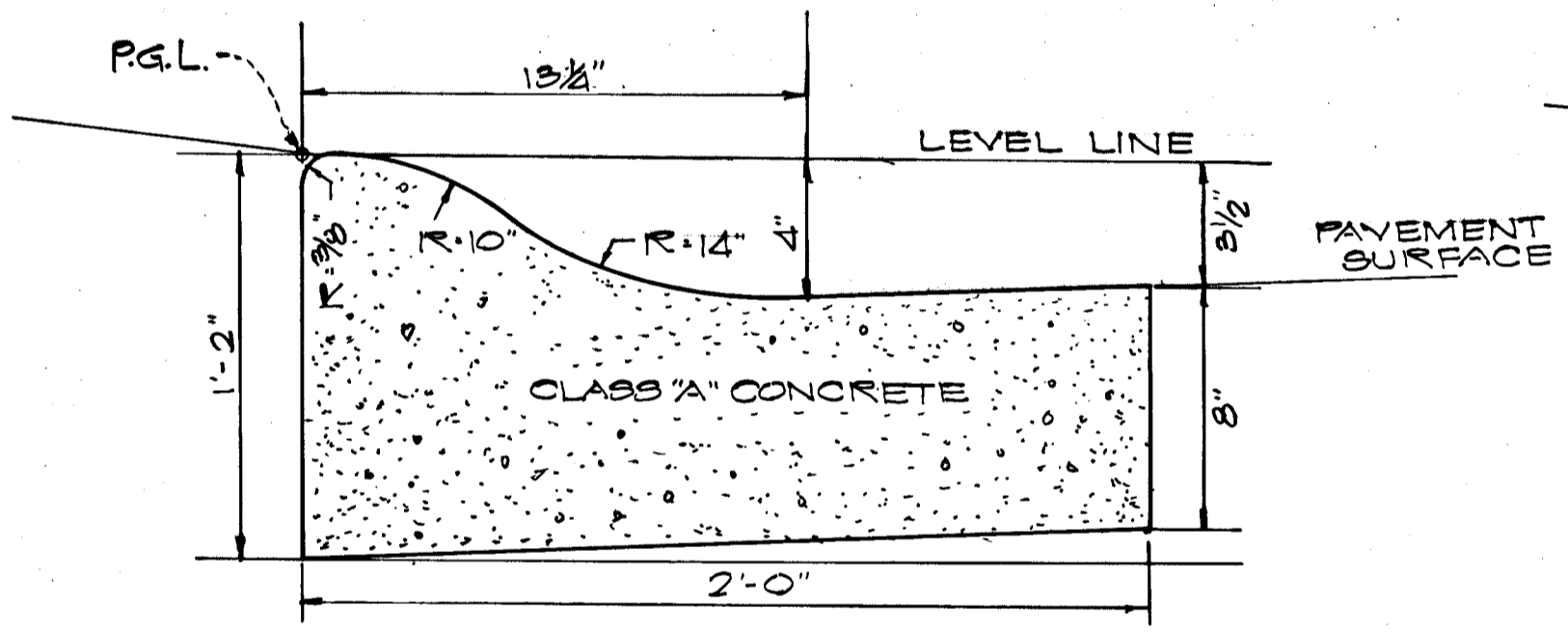
TYPICAL CUL-DE-SAC DETAIL
Scale 1"=30'



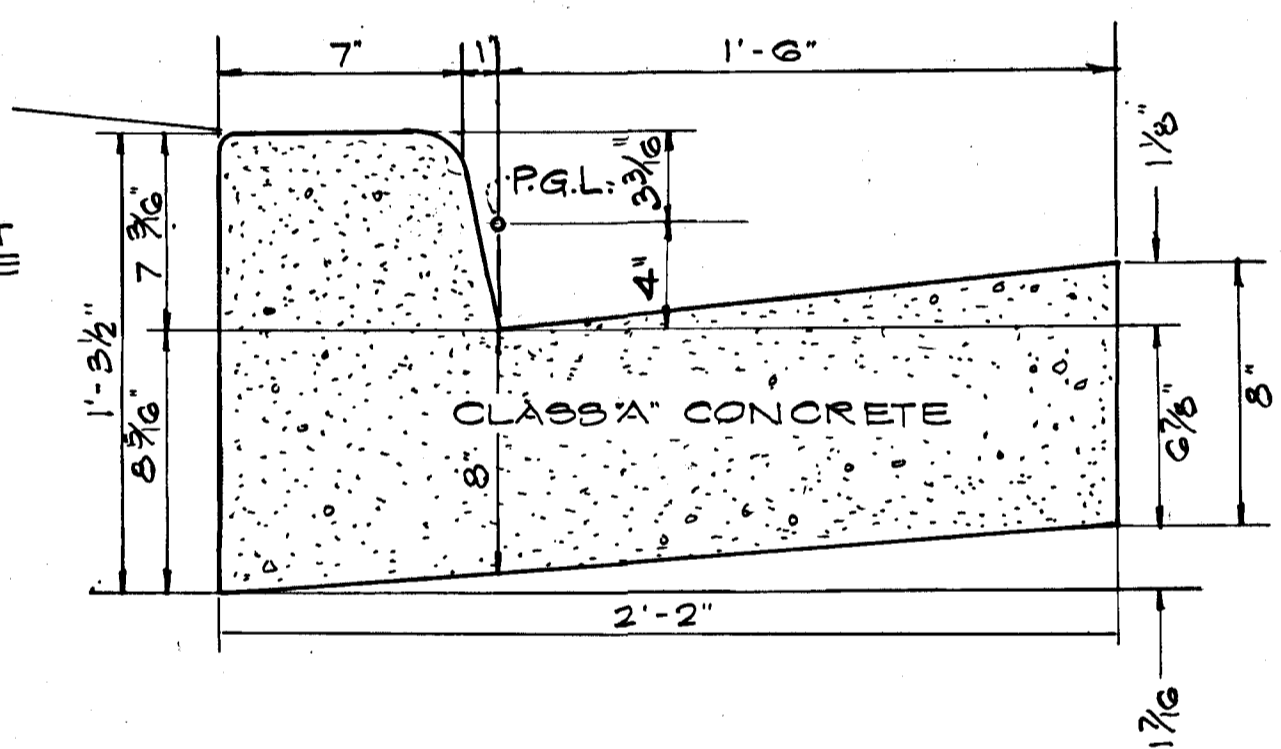
VARIABLE OFFSET CUL-DE-SAC DETAIL
Scale 1"=30'



STANDARD BARRIER CURB
NO SCALE

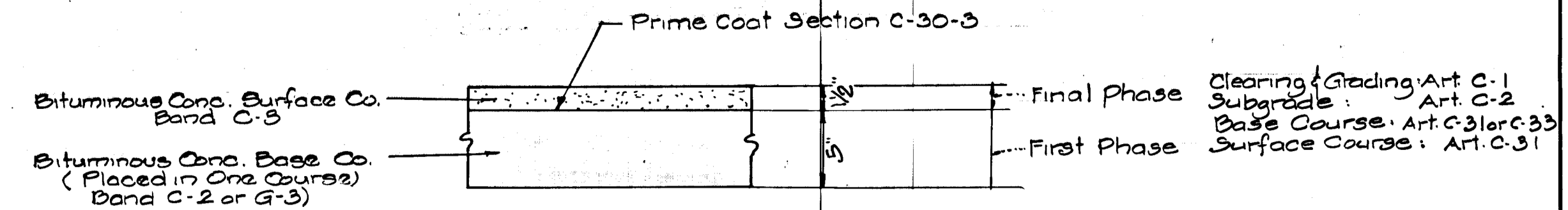


MODIFIED COMBINATION CURB & GUTTER
NO SCALE



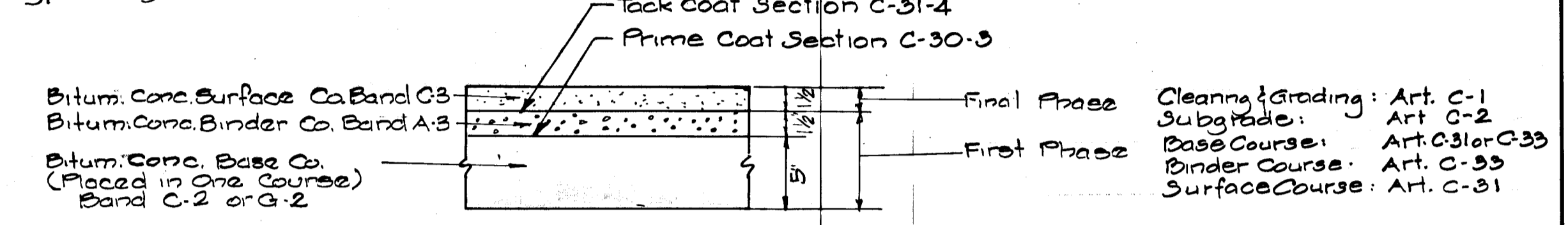
STANDARD 7" COMBINATION CURB & GUTTER
NO SCALE

NOTE: P.G.L. on Std. 7" Comb. C&G is 3 3/16" below Top of Curb. See Plan Profile sheets of Martin Road & Quarter-staff Rd. for T.C. Elev.



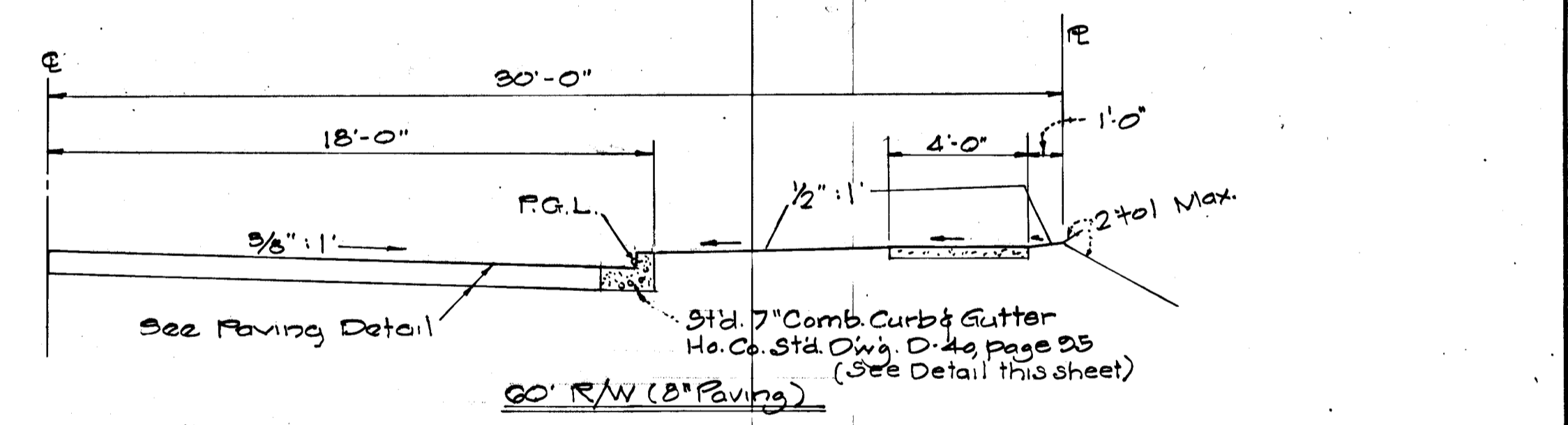
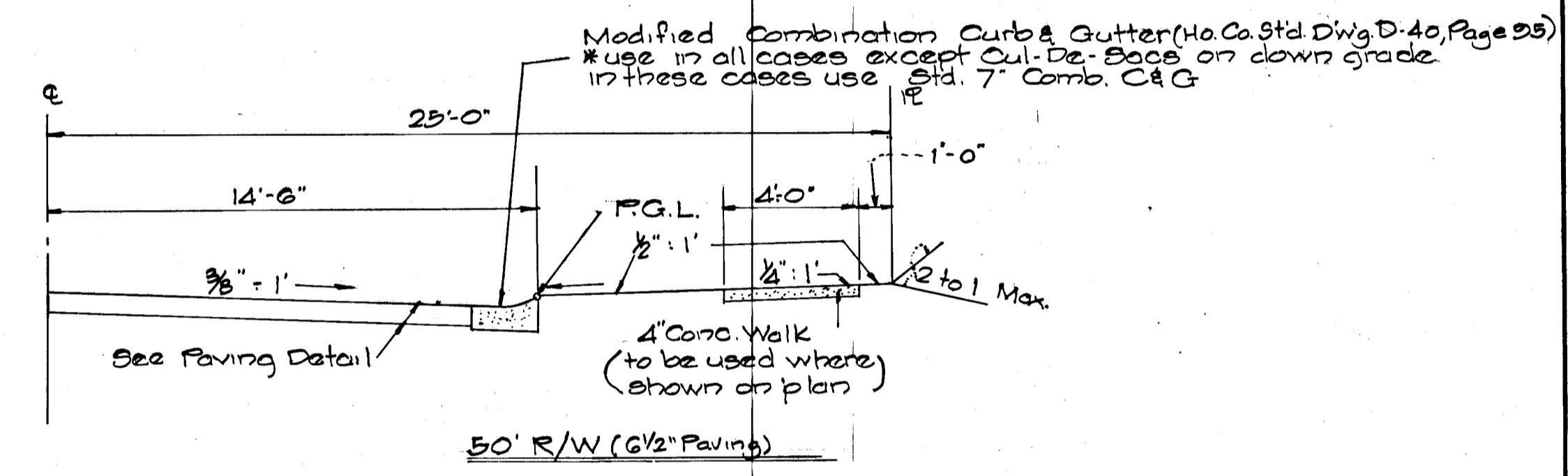
NOTE: Pavement to be constructed in accordance with the Howard County Road Construction Code & Specifications DWG. D-11, Page 66

25' ROAD PAVING DETAIL (6 1/2")



NOTE: Pavement to be constructed in accordance with the Howard County Road Construction Code & Specifications DWG. D-10, Page 65

30' ROAD PAVING DETAIL (8")



TYPICAL HALF SECTION OF ROADWAYS
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE 5/21/73
N.L.C.

Rev. Date	Rev. No.	Revision Description

COLUMBIA
MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY COLUMBIA MD 21044


MCA
MATZ, CHILDS & ASSOCIATES, INC.
CONSULTING ENGINEERS
1020 Cromwell Bridge Rd., Baltimore, Md.

DEPARTMENT OF PUBLIC WORKS
W.O. Palko
CHIEF, BUREAU OF HIGHWAYS
DATE 5-29-73
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING

PROJECT AREA
VILLAGE OF HICKORY RIDGE
Section 1 Area 2
PROJECT TITLE
ROADWAY DETAILS
Des. By Ho. Co. Scale: As Shown Dwg. No. 2 of 37
Dra. By P.D. Date 5/7/73 C.C.F. No.
Chk. By M.C.A. Approved

PAUL LEE
Registered Engineer
#4047



MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore, Md.

PAUL LEE
 REG. ENGR.
 NO. 4047

Rev. Date	Rev. No.	Revision Description

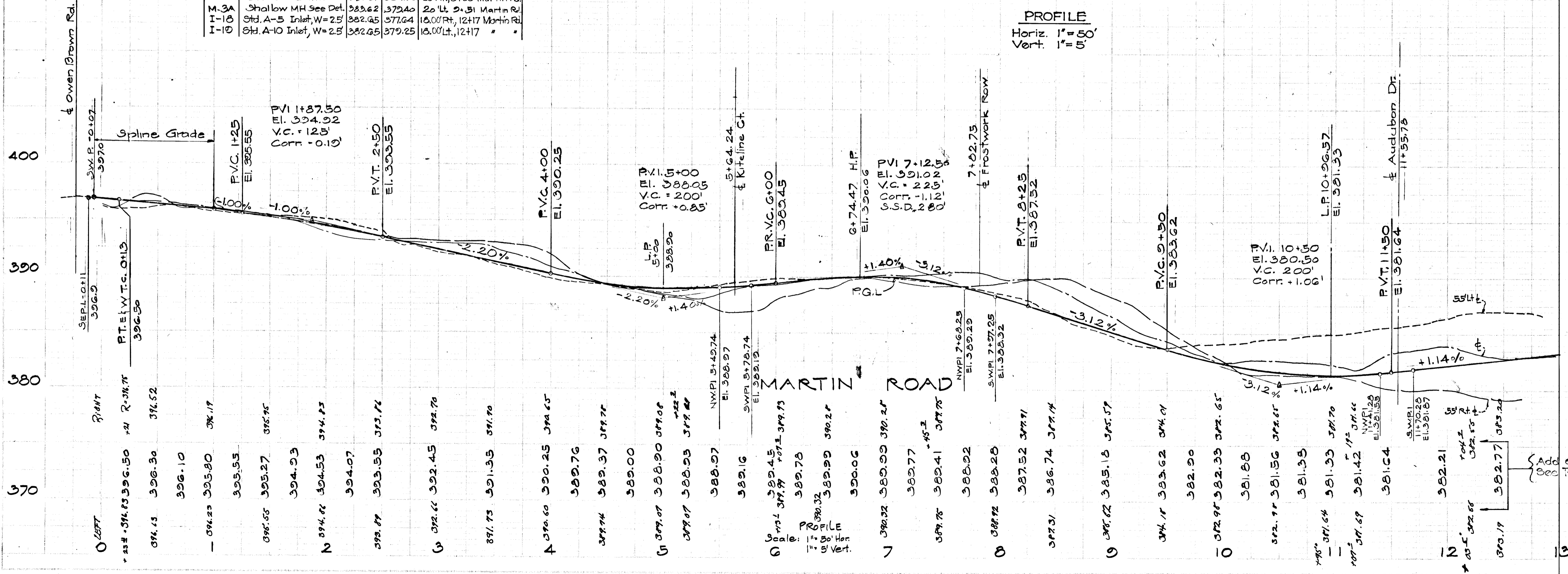
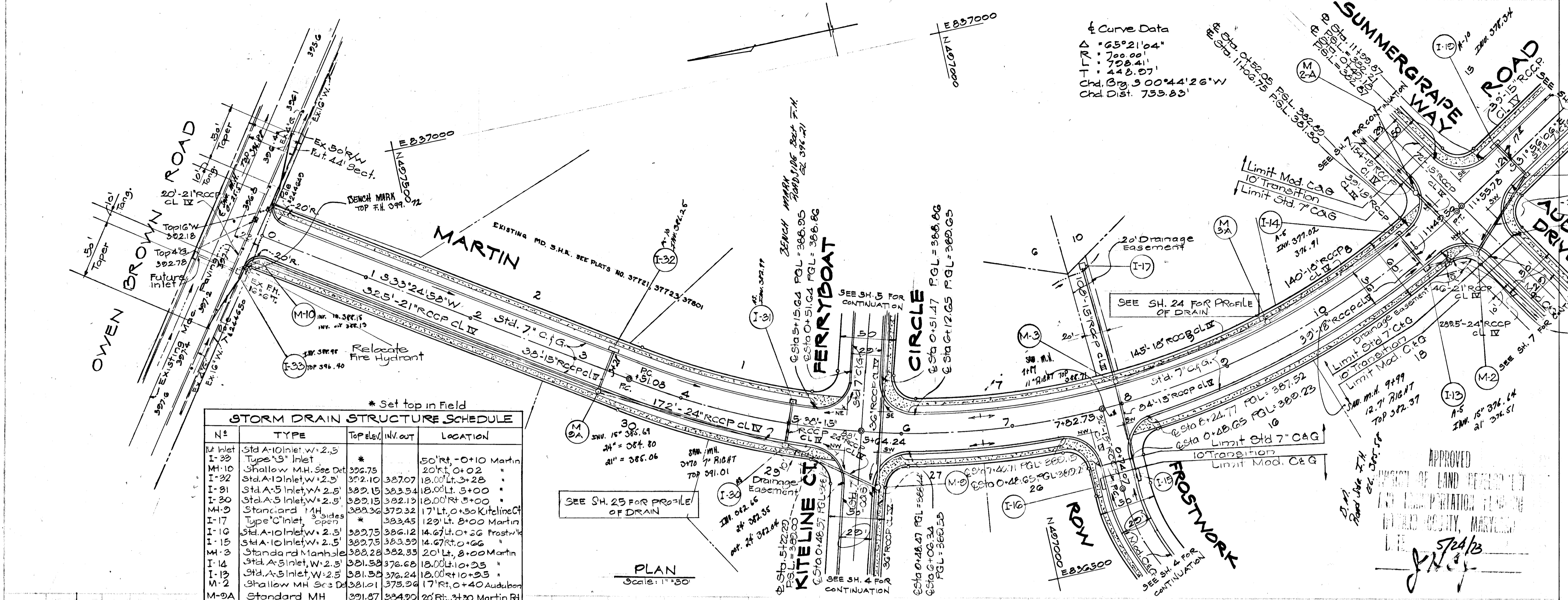
COLUMBIA
 MARYLAND

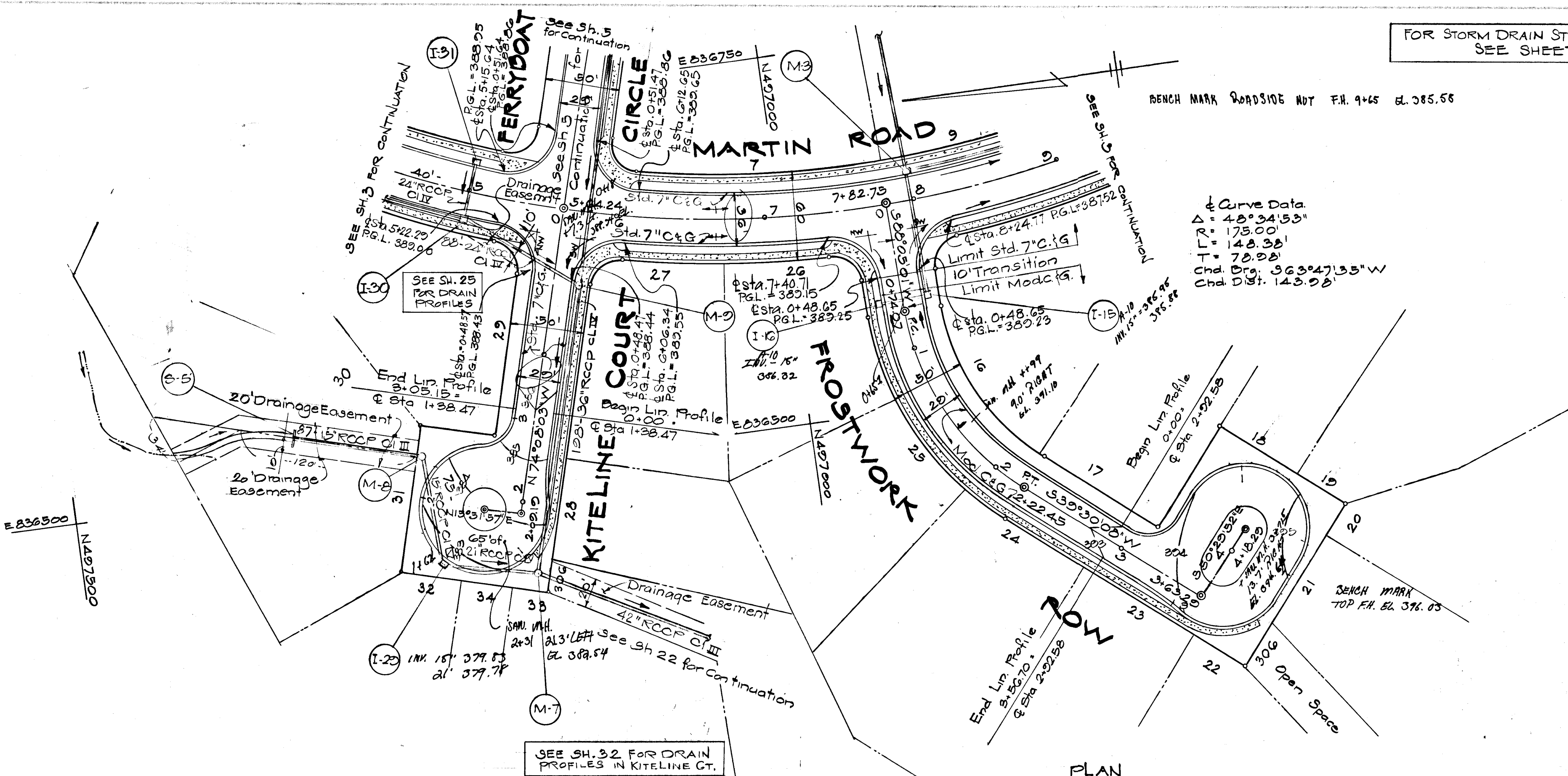
OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY, COLUMBIA, MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 AREA 2

PROJECT TITLE
 PLAN & PROFILE
 MARTIN ROAD - STA. 0+ to 12+50

Des. By MJE	Scale As Shown	Dwg No. 3 of 37
Drn. By WWB	Date 5/7/73	C.C.F. No.
Chk. By MCA	Approved	





PLAN
Scale: 1" = 50'

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HANCOCK COUNTY, MARYLAND
 B.T.A. 5/21/73
J. Lee

DEPARTMENT OF PUBLIC WORKS
W.O. Pellet 5-29-73 DATE
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4047

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1023 Cromwell Bridge Rd., Baltimore Md.

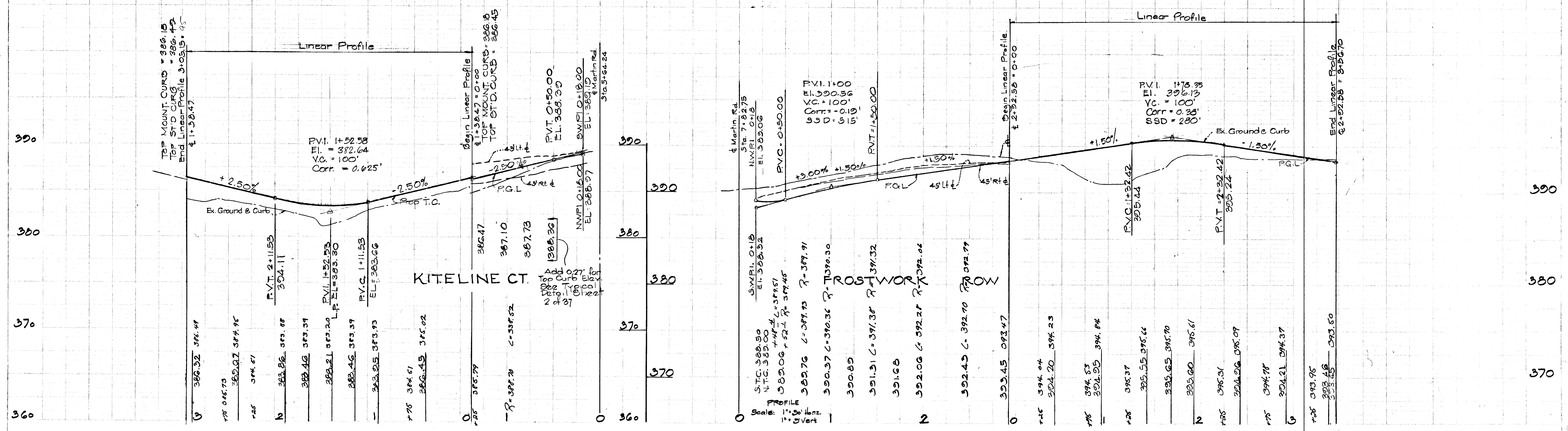
Rev. Date	Rev. No.	Revision Description

COLUMBIA MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY, COLUMBIA, MD. 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 AREA 2


PROJECT TITLE
 PLAN & PROFILE
 KITELINE CT. - FROSTWORK ROW

Des. By MJE	Scale AS SHOWN	Dwg No. 4 of 37
Drn. By VVV	Date 5/7/73	C.C.F. No.
Chk. By MCA	Approved	



1/2

Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4047

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING
 ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore, Md.

Rev. Date	Rev. No.	Revision Description

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

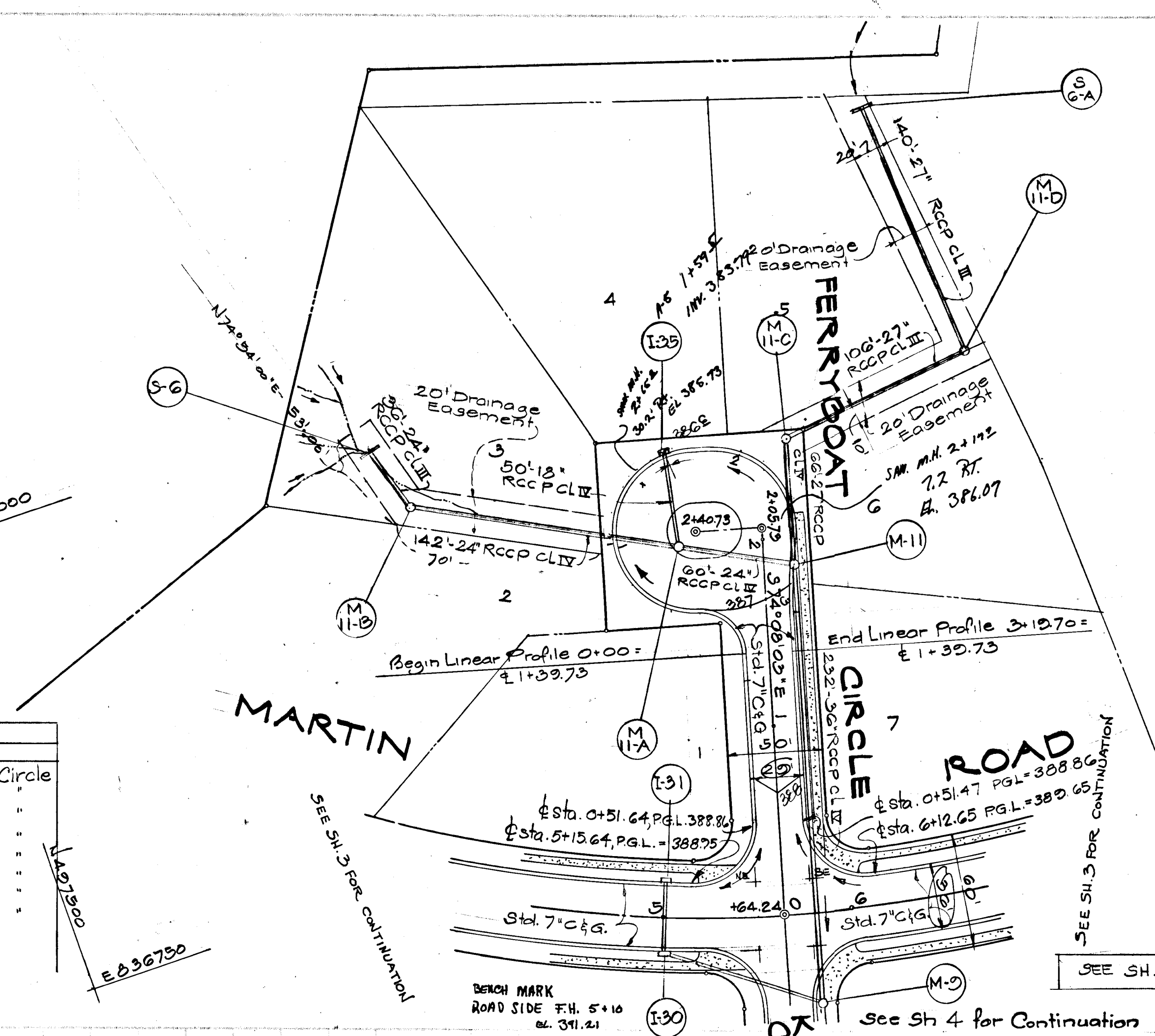
PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

PROJECT TITLE
 PLAN & PROFILE
 FERRYBOAT CIRCLE

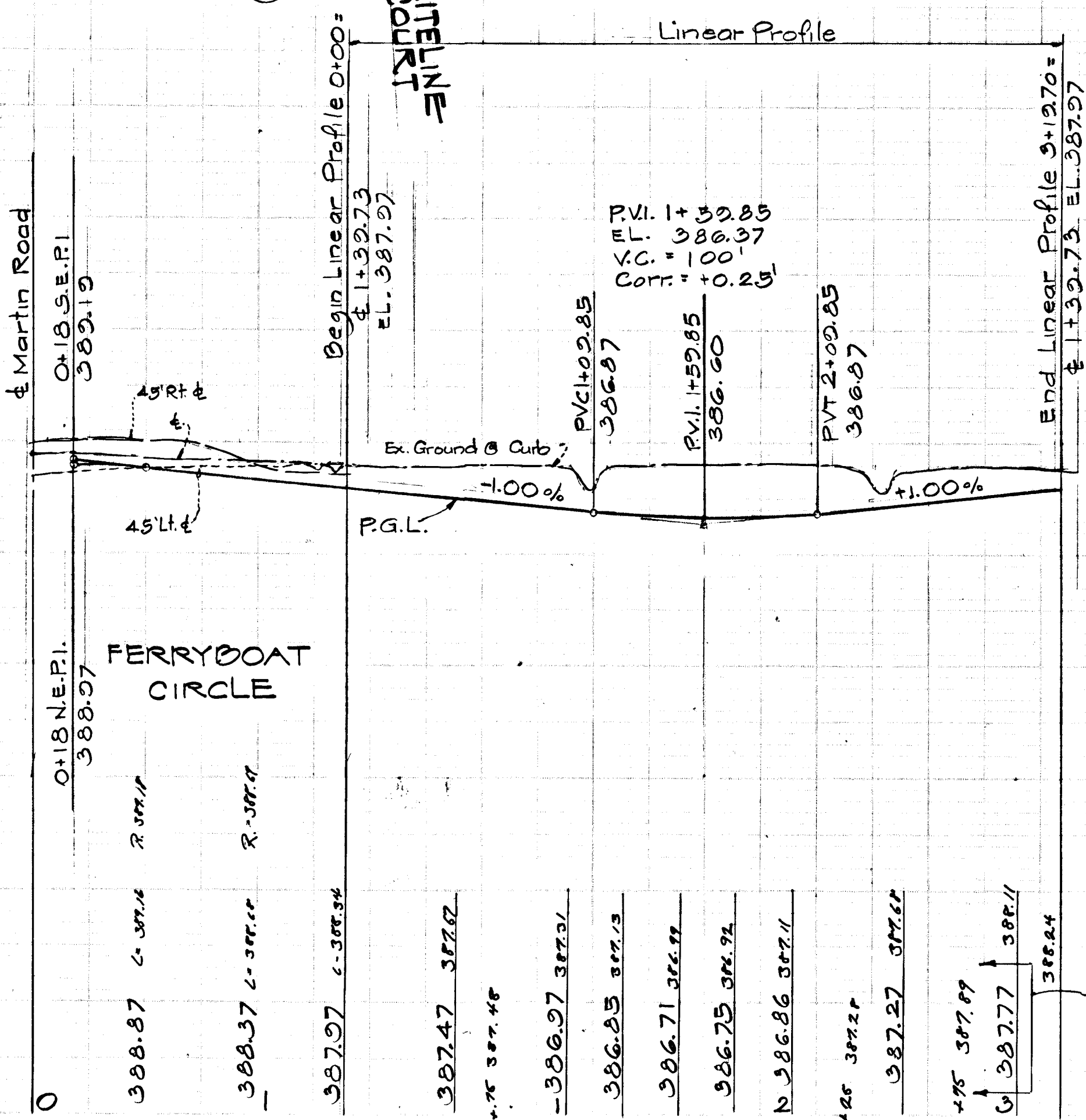
Des. By MJE	Scale AS SHOWN	Dwg. No. 5 of 37
Drn. By WWD	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	

* Set Top in Field

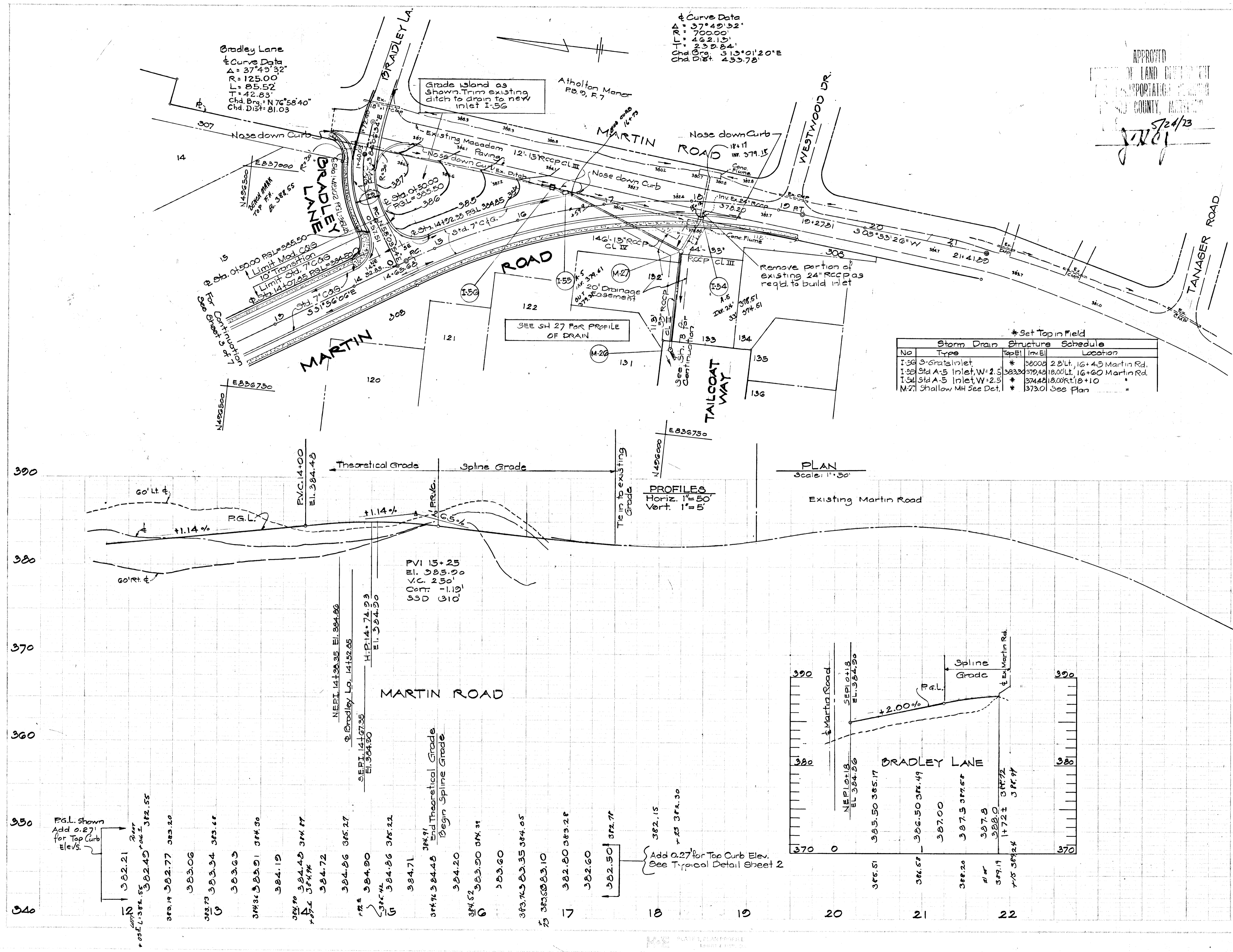
No.	Type	Top El.	Inv. El.	Location
S-G	Std. Type 'C' Endwall	382.32	386.32	See Plan & Profile Ferryboat Circle
S-GA	Std. Type 'C' Endwall	380.18	387.18	See Plan & Profile
M-11	Shallow Manhole	387.79	380.71	3.0' Lt. 2+75 Lin. Profile
M-11A	Shallow Manhole	387.10	382.91	32' Rt. 0+76 Lin. Profile
M-11B	Shallow Manhole	*	386.00	See Plan & Profile
M-11C	Std. Manhole	*	381.86	20' Lt. 2+15 Lin. Profile
M-11D	Shallow Manhole	*	384.18	See Plan & Profile
I-35	Std. A-5 Inlet W=2.5	386.83	383.71	1+53.83 on Lin. Profile



APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 10-2000 COUNTY, MARYLAND
 5/24/73
 AS - Borck
 Bob Lewis



Add 0.27' for Top of Curb
 Elevs. See Detail Sh. 2
 PROFILE
 Scale: 1" = 50' Horiz.
 1" = 5' Vert.



Bradley Lane
 & Curve Data
 Δ = 37°49'32"
 R = 125.00'
 L = 85.52'
 Chd. Br. = N 76°58'40"
 Chd. Dist. = 81.03'

& Curve Data
 Δ = 37°49'32"
 R = 700.00'
 L = 462.13'
 Chd. Br. = S 89°08'
 Chd. Dist. = 433.78'

APPROVED
 DEPARTMENT OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 WOOD COUNTY, MARYLAND
 5/24/73
 J. Lee

DEPARTMENT OF PUBLIC WORKS
 W.O. LaHart 5-29-73
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING

PAUL LEE
 Reg. Engr.
 No. 4047

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore, Md.

*Set Top in Field

No.	Type	Top El.	Inv. El.	Location
I-56	Grate Inlet	*	380.02	28' Lt., 16+45 Martin Rd.
I-54	Std A-5 Inlet, W-2.5	*	383.29	18.00 Lt., 16+60 Martin Rd.
I-54	Std A-5 Inlet, W-2.5	*	374.42	18.00 Lt., 18+10 "
M-27	Shallow MH See Det. 1	*	373.01	See Plan

Rev. Date	Rev. No.	Revision Description


COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA, MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION I - AREA 2

PROJECT TITLE
 PLAN & PROFILE
 MARTIN ROAD - STA. 12+50 to STA. 21+

Des. By MJE Scale As Shown Dwg No. 0 of 37
 Dra. By WWD Date 5/7/73 C.C.F. No.
 Chk. By MCA Approved

Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4047

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
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Rev. Date	Rev. No.	Revision Description

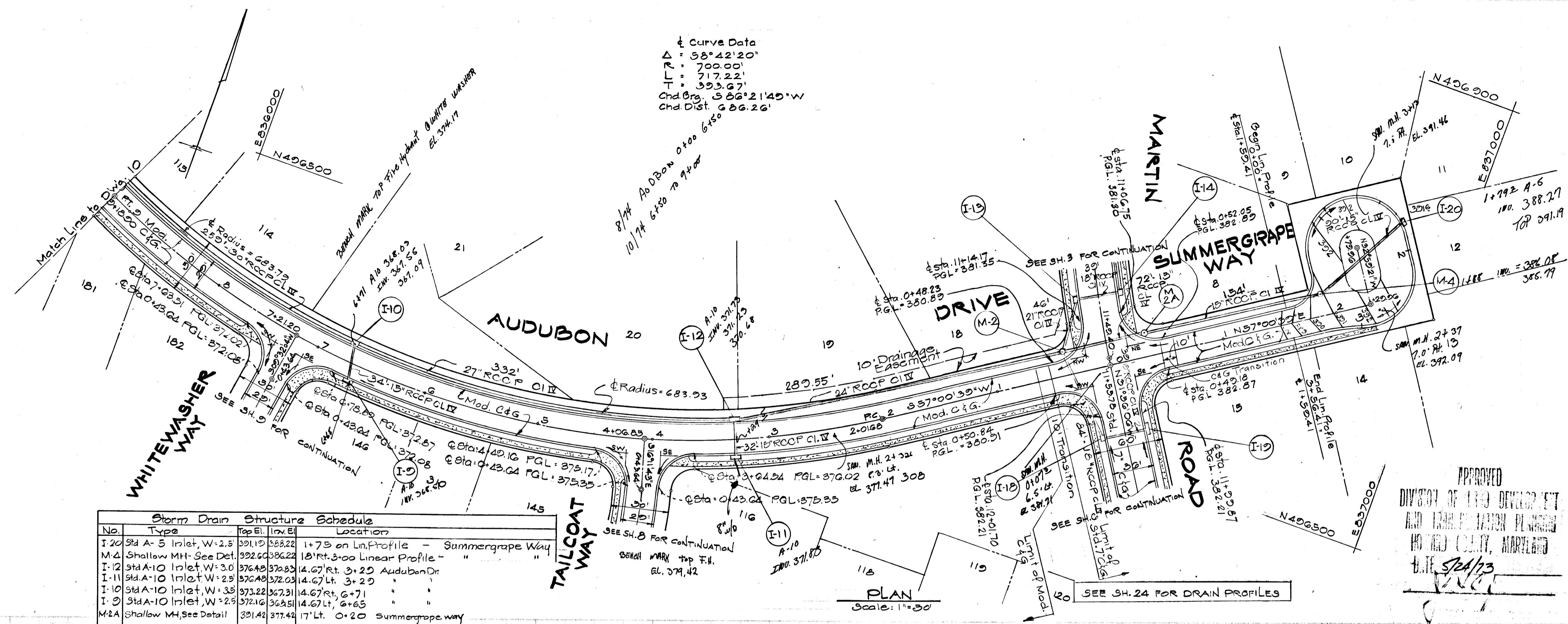
COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY, COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

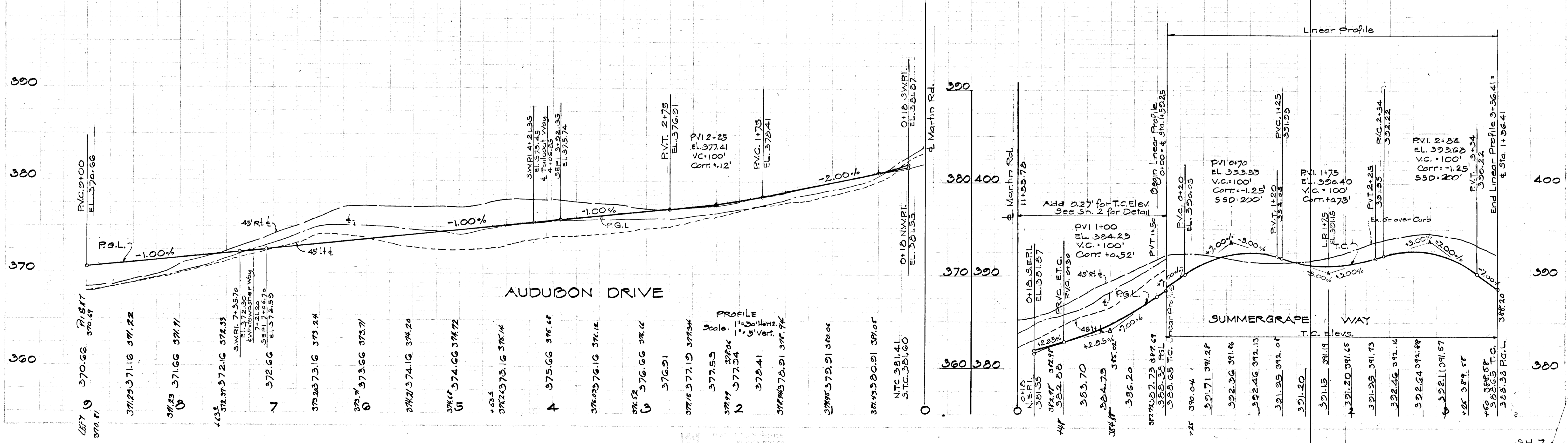
PROJECT TITLE
 PLAN & PROFILE
 AUDUBON DR. STA. 0+00 TO 0+ SUMMERGRAPE WAY

Des. By MJE Scale As Shown Dwg No. 7 of 37
 Dwn. By WWB Date 5-7-73 C.C.F. No.
 Chk. By MCA Approved

Curve Data
 $\Delta = 58^{\circ}42'20''$
 $R = 700.00'$
 $L = 717.22'$
 $T = 393.67'$
 Chd. Org. $S 86^{\circ}21'40'' W$
 Chd. Dist. 686.26'



No.	Type	Top El.	In. El.	Location
I-20	Std A-5 Inlet, W=2.5	331.12	333.22	1+75 on Ln. Profile - Summergrape Way
M-4	Shallow M.H. See Det.	332.60	336.22	1+75 on Ln. Profile - "
I-12	Std A-10 Inlet, W=3.0	376.48	378.83	4.67 Rt. 3+20 Audubon Dr.
I-11	Std A-10 Inlet, W=2.5	376.48	378.83	4.67 Lt. 3+20
I-10	Std A-10 Inlet, W=3.0	373.22	377.31	4.67 Rt. 6+71
I-9	Std A-10 Inlet, W=2.5	372.16	376.51	4.67 Lt. 6+65
M-2A	Shallow M.H. See Detail	331.42	377.42	17' Lt. 0+20 Summergrape Way



APPROVED
 DEPARTMENT OF LAND DEVELOPMENT
 TRANSPORTATION PLANNING
 HARRIS COUNTY, MARYLAND
 5/24/73
 PAUL LEE
 Reg. Engr.
 No. 4047

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd. Baltimore, Md.

Rev. Date	Rev. No.	Revision Description

COLUMBIA MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP
 THE ROUSE COMPANY COLUMBIA MD 21044

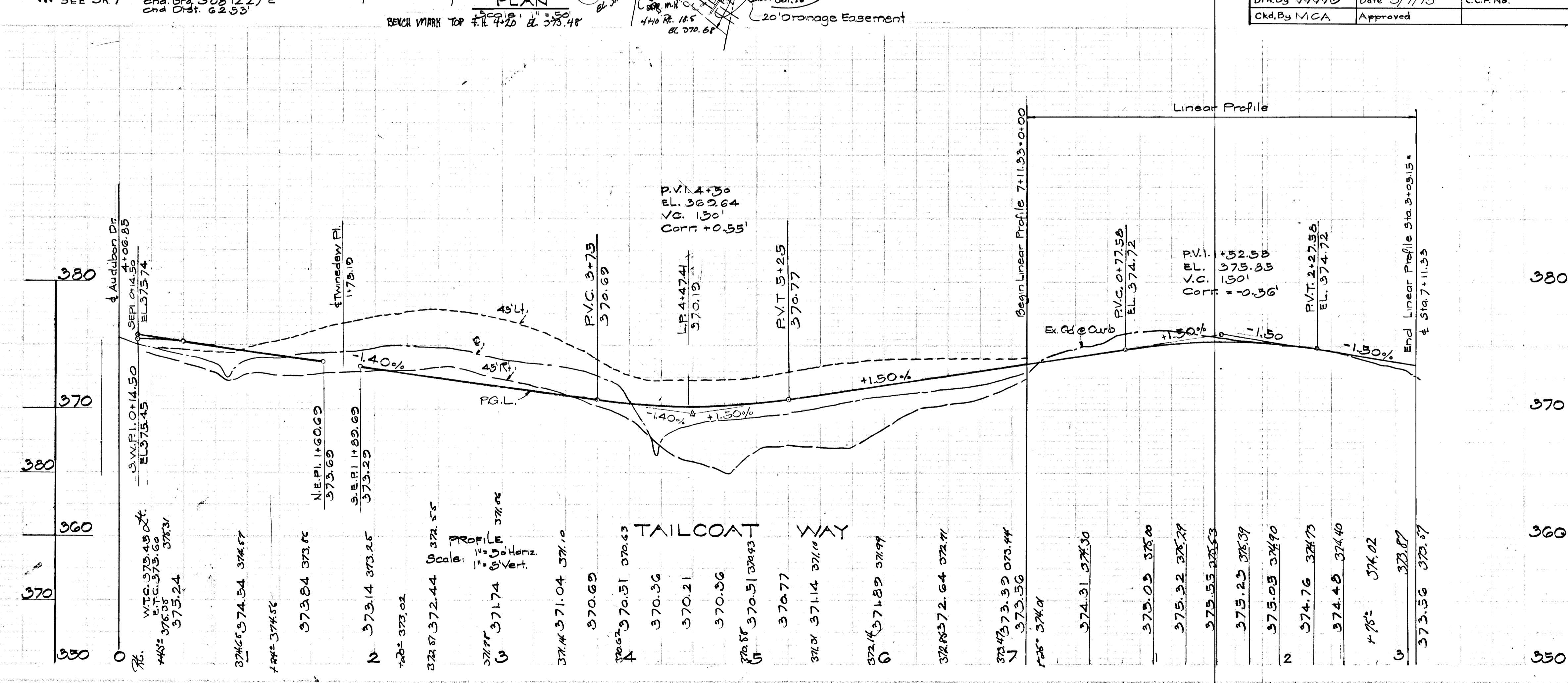
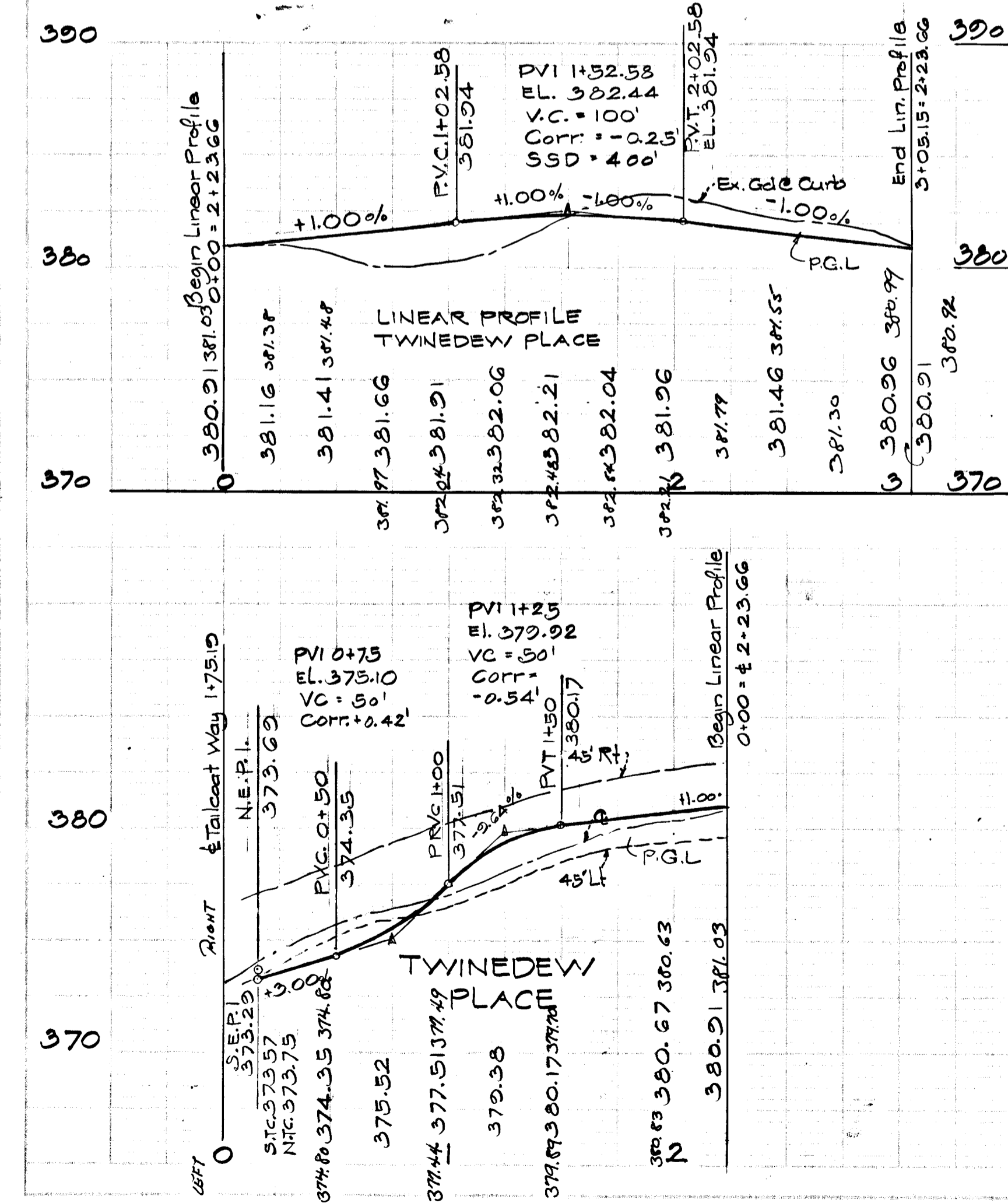
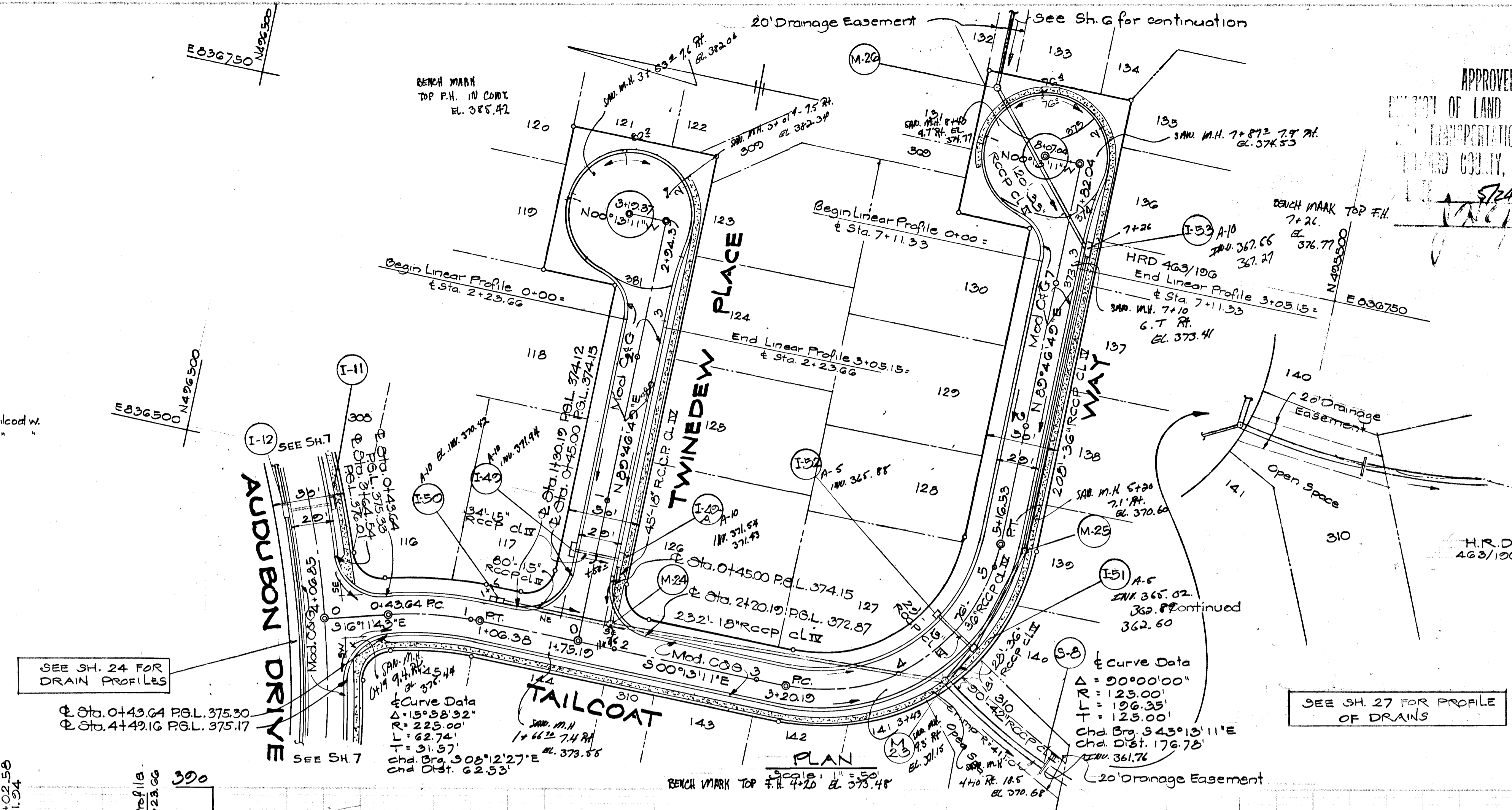
VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

PLAN & PROFILE
 TWINEDEW PLACE - TAILCOAT WAY


Des. By MJE	Scale: As Shown	Dwg No. 8 of 37
Drn. By VVV	Date: 5/7/73	C.C.F. No.
Ckd. By MCA	Approved	

* Set Top in Field

No	TYPE	RELEV.	INV. OUT.	LOCATION
M-26	Shallow MH See Det.	373.99	367.59	14' Lt. 1+25 Lin. Profile Tailcoat W.
I-53	Std. A-10 Inlet W. 4.0	370.60	364.23	0.17 Lt. 2+90 Lin. Profile
M-25	Shallow MH See Det.	370.40	363.05	17' RT. 5+16 Tailcoat W.
I-52	Std. A-5 Inlet W. 2.5	370.40	363.05	14.67' Lt. 4+47
I-51	Std. A-5 Inlet W. 4.0	370.40	362.84	14.67' Lt. 4+47
I-50	Std. A-10 Inlet W. 2.5	374.35	370.44	14.67' Lt. 1+15
I-49	Std. A-10 Inlet W. 2.5	374.76	372.00	14.67' Lt. 0+38 Twinedew
I-20-A	Std. A-10 Inlet W. 2.5	374.76	371.41	14.67' Lt. 0+38
M-24	Shallow MH See Det.	372.88	369.07	16' Lt. 1+25 Tailcoat W.
M-23	Standard 4.0 Co. MH	370.33	362.17	19' Rt. 4+23
S-B	Std. End Support Wall	363.88	361.63	630 Plan & Prof. Tailcoat



Paul Lee
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 Reg. Eng.
 No. 40247

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 1020 Cromwell Bridge Rd. Baltimore, Md.

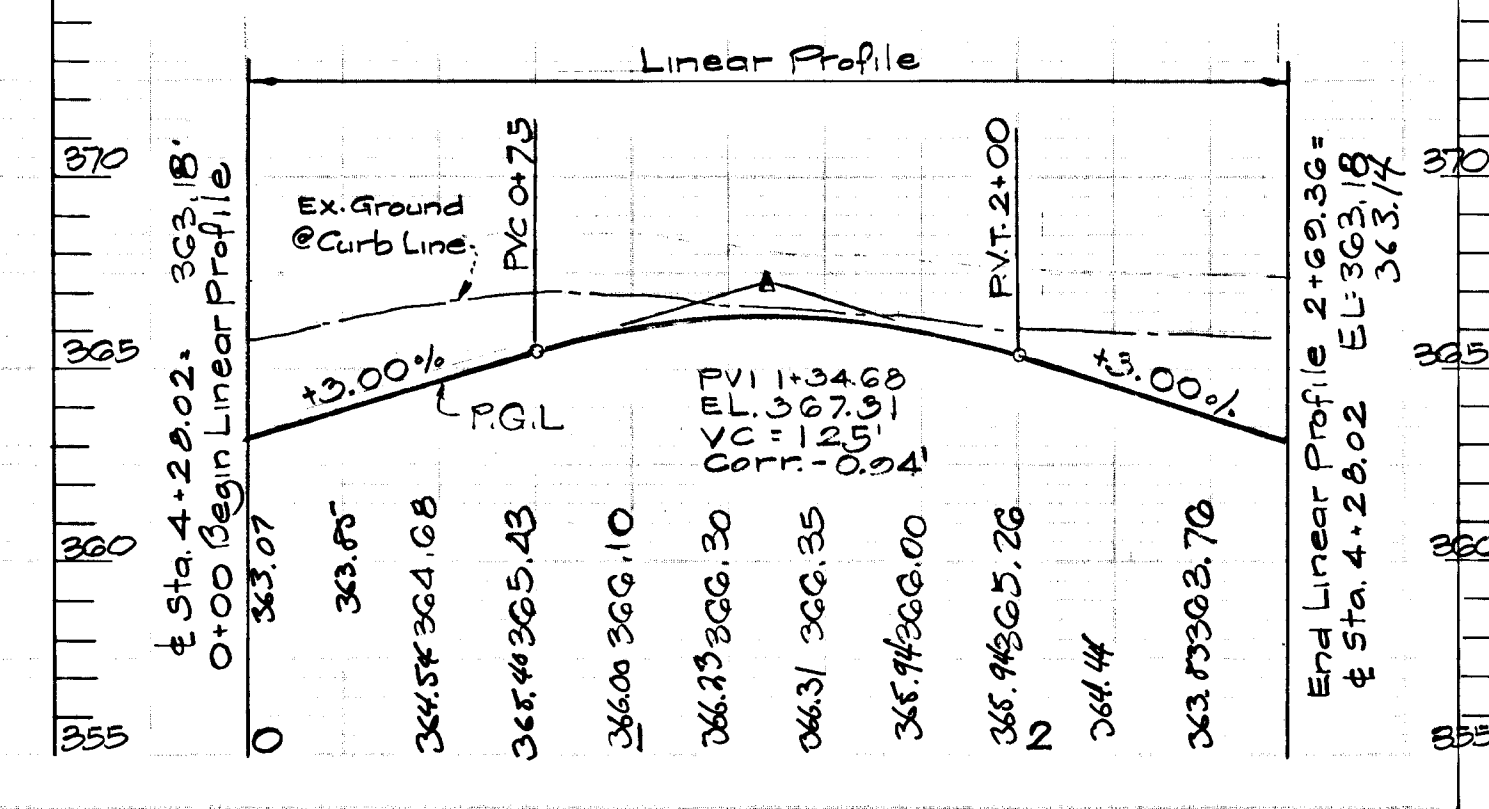
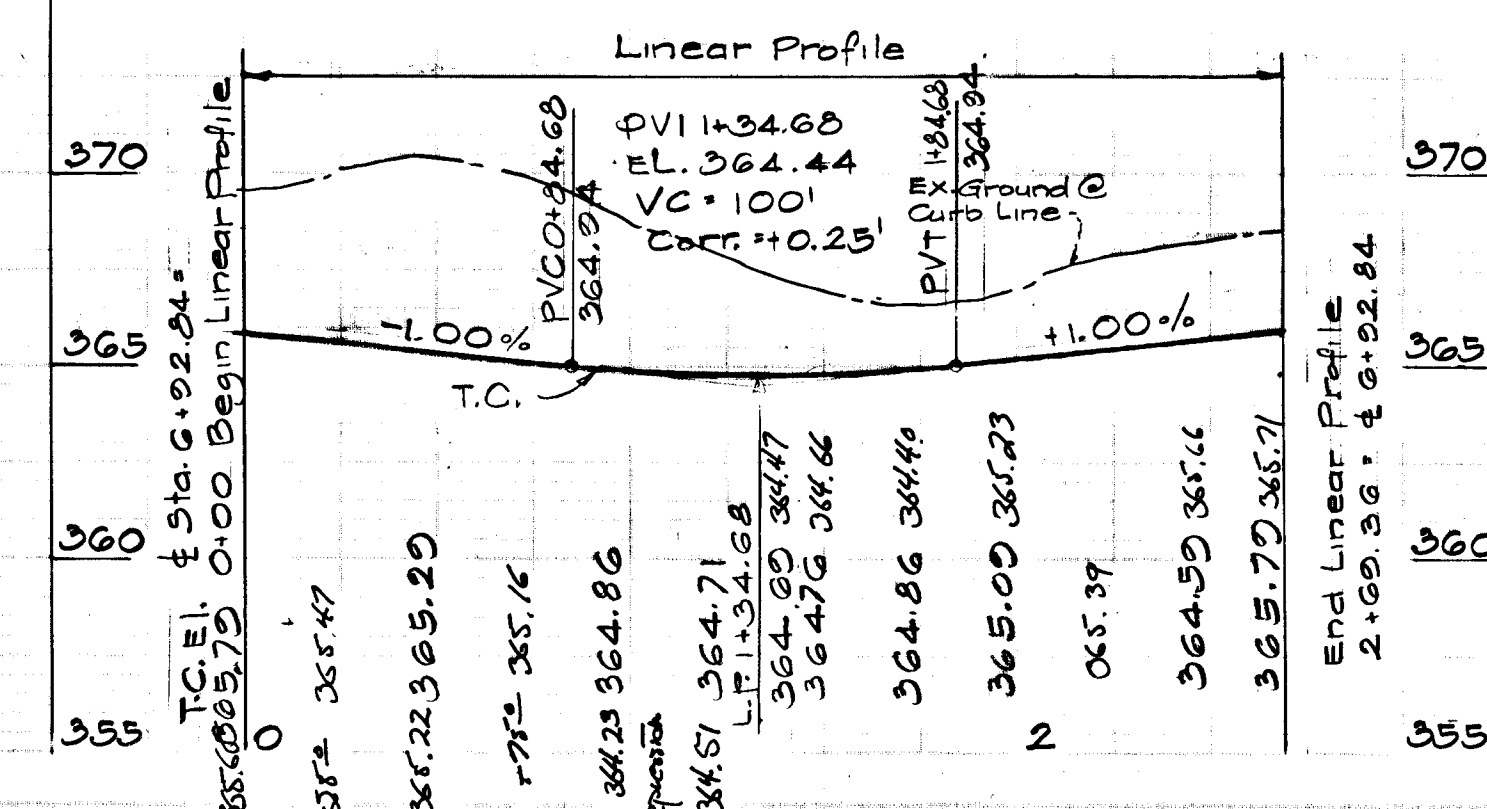
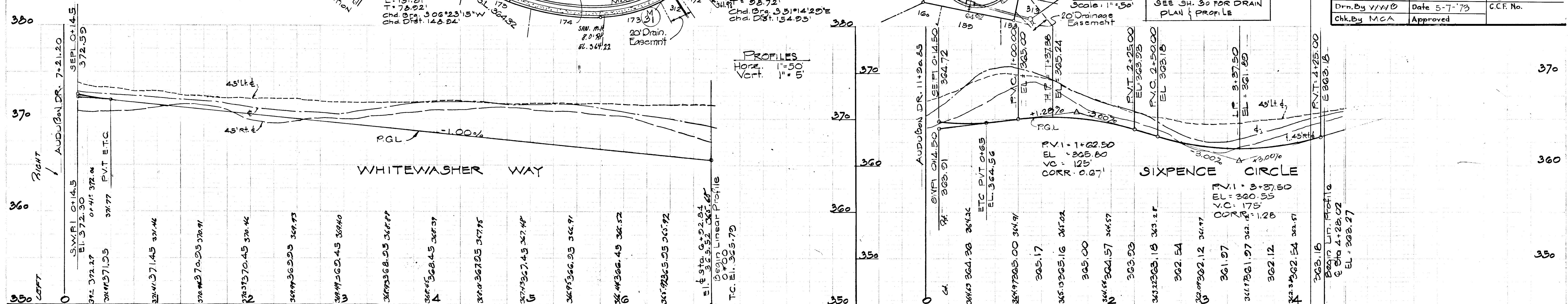
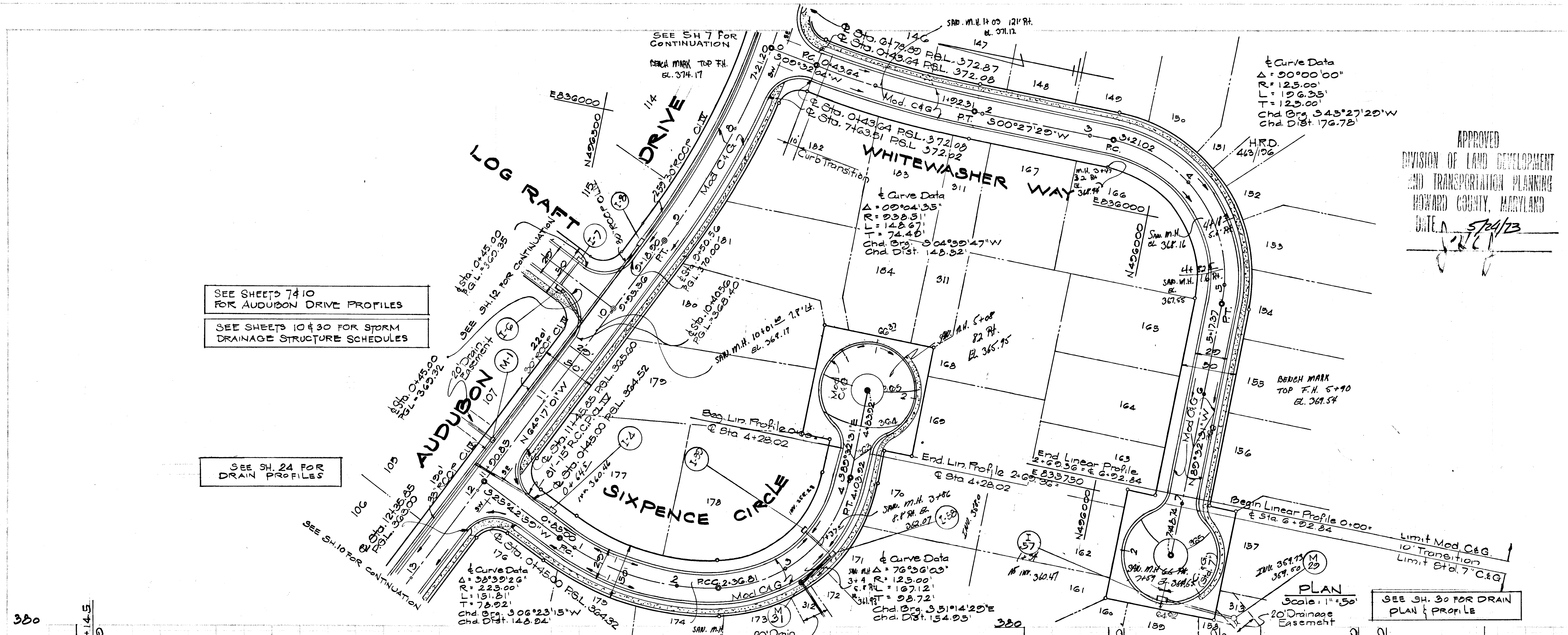
Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP
 THE ROUSE COMPANY COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

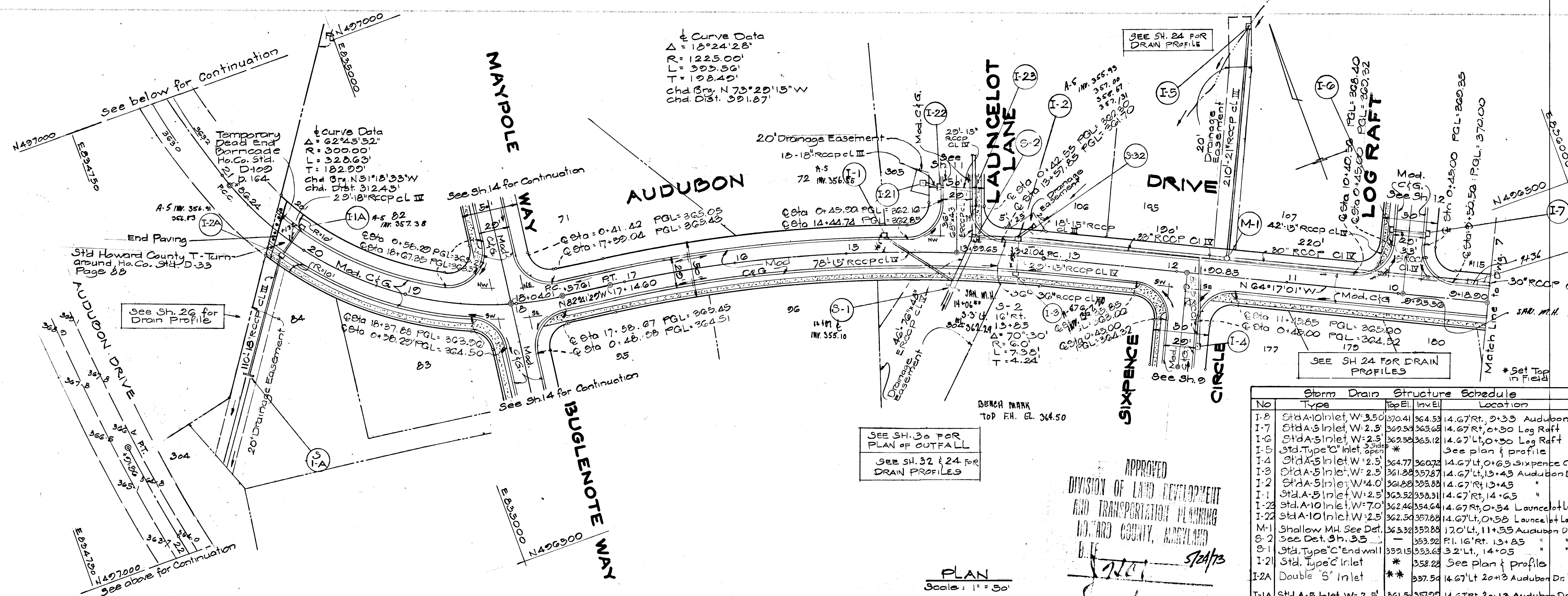
PROJECT TITLE
 PLAN & PROFILE
 SIXPENCE CIRCLE - WHITEWASHER WAY

Des. By MJE	Scale As Shown	Dwg. No. 2 of 37
Drn. By V/W/D	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	



Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4047

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore, Md.



SEE SH. 30 FOR PLAN OF OUTFALL
 SEE SH. 32 & 24 FOR DRAIN PROFILES

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 5/29/73

PLAN
 Scale: 1" = 30'

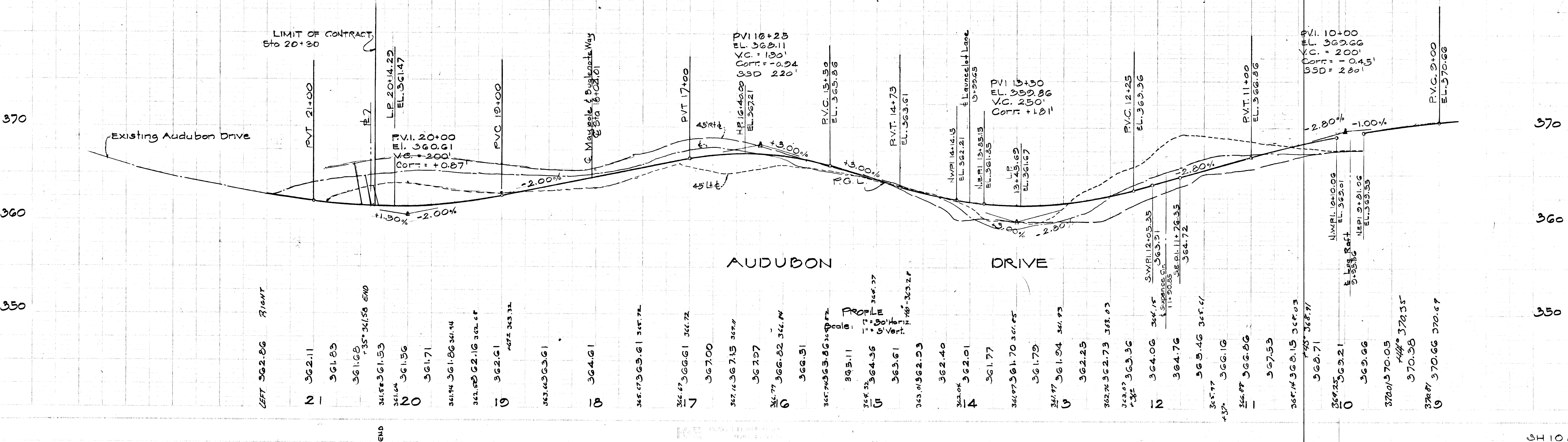
No.	Type	Top El.	Invert El.	Location
I-8	Std. A-10 Inlet, W=3.5'	370.41	364.53	14.67' Rt., 0+33 Audubon
I-7	Std. A-5 Inlet, W=2.5'	369.53	363.65	14.67' Rt., 0+50 Log Raff
I-6	Std. A-5 Inlet, W=2.5'	369.53	363.12	14.67' Lt., 0+30 Log Raff
I-5	Std. Type 'C' Inlet, open	*	*	See plan & profile
I-4	Std. A-5 Inlet, W=2.5'	364.77	360.72	14.67' Lt., 0+63 Sixpence Cir.
I-3	Std. A-5 Inlet, W=2.5'	361.88	357.87	14.67' Lt., 13+45 Audubon Dr.
I-2	Std. A-5 Inlet, W=4.0'	361.88	353.88	14.67' Rt., 13+45
I-1	Std. A-5 Inlet, W=2.5'	363.52	358.31	14.67' Rt., 14+63
I-23	Std. A-10 Inlet, W=7.0'	362.44	354.64	14.67' Rt., 0+54 Launcelot Lane
I-22	Std. A-10 Inlet, W=2.5'	362.54	357.88	17.0' Lt., 11+55 Audubon Dr.
S-2	Shallow M.H. See Det.	353.32	353.28	17.0' Lt., 11+55 Audubon Dr.
S-1	Std. Type 'C' End wall	353.15	353.68	3.2' Lt., 14+05
I-21	Std. Type 'C' Inlet	*	358.28	See plan & profile
I-2A	Double 5' Inlet	*	357.54	14.67' Lt. 20+13 Audubon Dr.
I-1A	Std. A-5 Inlet, W=2.5'	361.54	357.99	14.67' Rt., 20+13 Audubon Dr.
S-1A	Std. Type 'C' End wall	354.95	352.34	See Plan & Profile
S-32	Concrete End Section	*	358.75	See Plan & Profile

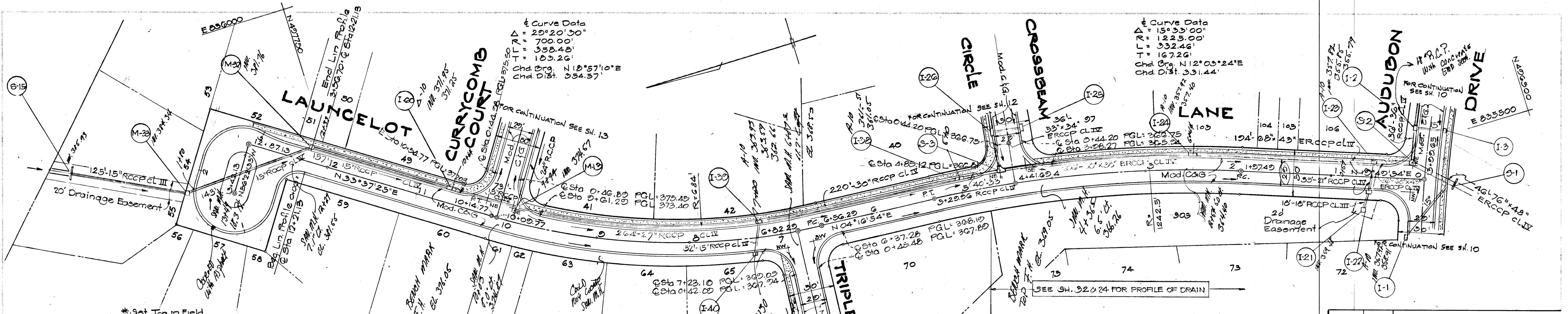
COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

PROJECT TITLE
 PLAN & PROFILE
 AUDUBON DRIVE - STA. 0+1890 to 20+35

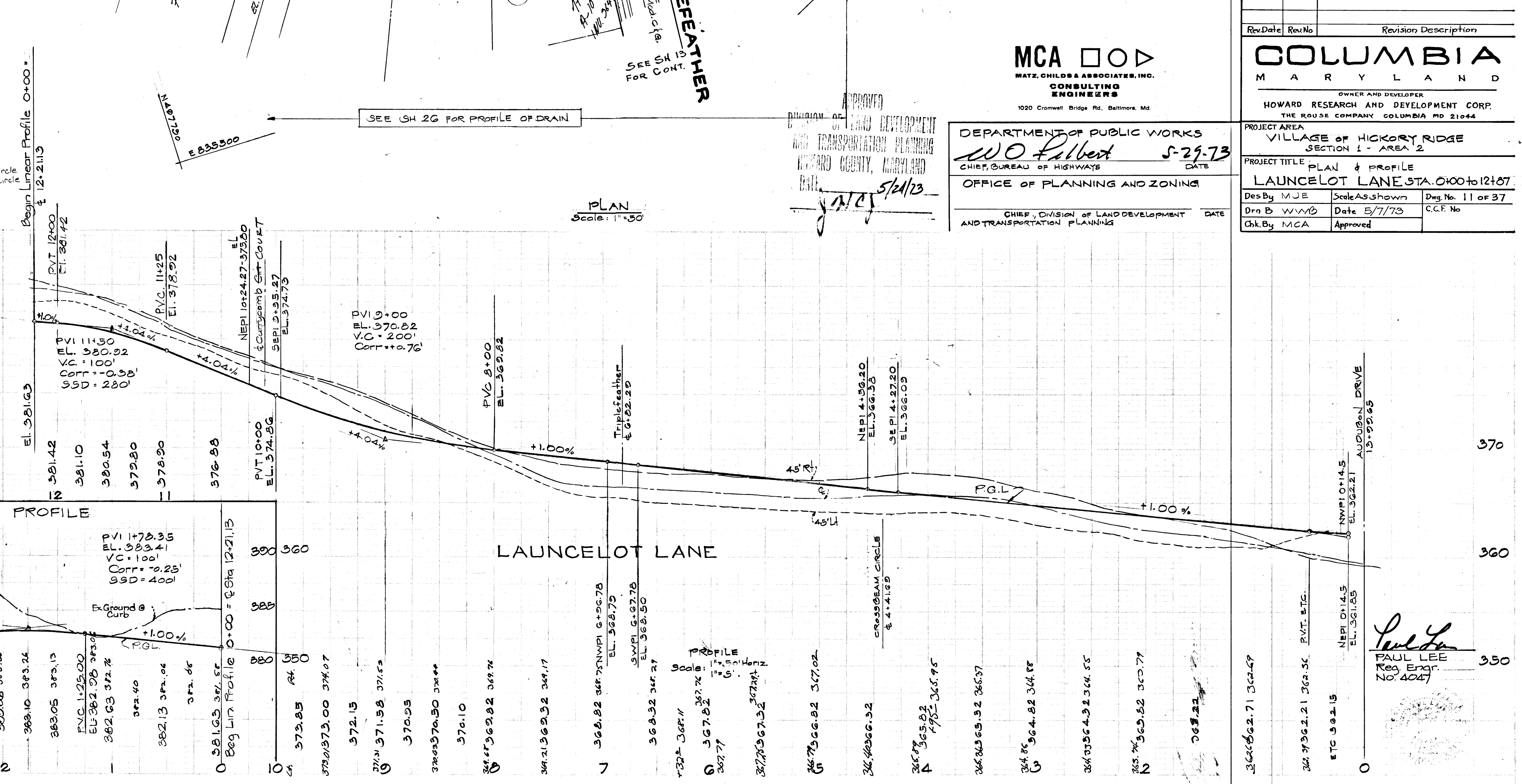
Des. By M.J.E.	Scale A-3 Shown	Dwg. No. 10 of 37
Drn. By W.W.D.	Date 5-7-73	C.C.F. No.
Chk. By M.C.A.	Approved	





* Set Top in Field

No	TYPE	Top Elev.	Inlet	Location
I-24	Std A-10 Inlet, W=7.0	364.51	336.00	14.67 Rt, 2+48 Launcelot
I-40	Std A-10 Inlet, W=2.5	362.33	364.33	14.67 Lt, 7+30
I-30	Std A-10 Inlet, W=3.5	362.23	362.70	14.67 Rt, 7+20
I-38	Std A-10 Inlet, W=3.5	367.03	352.18	14.67 Rt, 5+00
I-21	Std. Type 'C' Inlet	358.28		See plan & Profile
I-22	Std. A-10 Inlet, W=2.5	362.50	357.80	14.67 Lt, 0+50 Launcelot
I-23	Std. A-10 Inlet, W=7.0	362.46	354.64	14.67 Rt, 0+54
S-3	48" x 42" x 30" C. Manhole	357.44		17.0 Rt, 4+35
I-60	Std A-10 Inlet, W=2.5	377.70	371.80	14.67 Rt, 10+65
M-32	Shallow MH See Det.	381.84	376.71	17.0 Rt, 3+56
M-33	Shallow MH See Det.	383.35	378.63	7.0 Lt, 1+75 Lin. Profile
S-15	Std. Type 'C' Endwall	383.00	386.00	See Plan & Profile
I-25	Std. A-5 Inlet, W=2.5	366.90	362.57	14.67 Rt, 0+58 Crossbeam Circle
I-26	Std. A-5 Inlet, W=5.5	366.90	360.80	14.67 Rt, 0+58 Crossbeam Circle



LINEAR PROFILE

Station	Elevation
0+00	381.42
1+00	381.10
2+00	380.54
3+00	379.80
4+00	378.90
5+00	376.88
6+00	374.86
7+00	372.85
8+00	370.83
9+00	368.82
10+00	366.81
11+00	364.80
12+00	362.79
12+87	360.78

PLAN Scale: 1"=50'

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore, Md.

DEPARTMENT OF PUBLIC WORKS
W.O. Felbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

Rev. Date	Rev. No.	Revision Description

COLUMBIA MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

PROJECT TITLE
 PLAN & PROFILE
 LAUNCELOT LANE STA. 0+00 TO 12+87

Des. By MJE Scale AS Shown Dwg. No. 11 of 37
 Dra B WMMB Date 5/7/73 C.C.F. No.
 Chk. By MCA Approved

Paul Lee
 PAUL LEE
 Reg. Eng.
 No. 4027

DATE 5-29-73
 DATE
 DATE
 DATE

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd. Baltimore, Md.

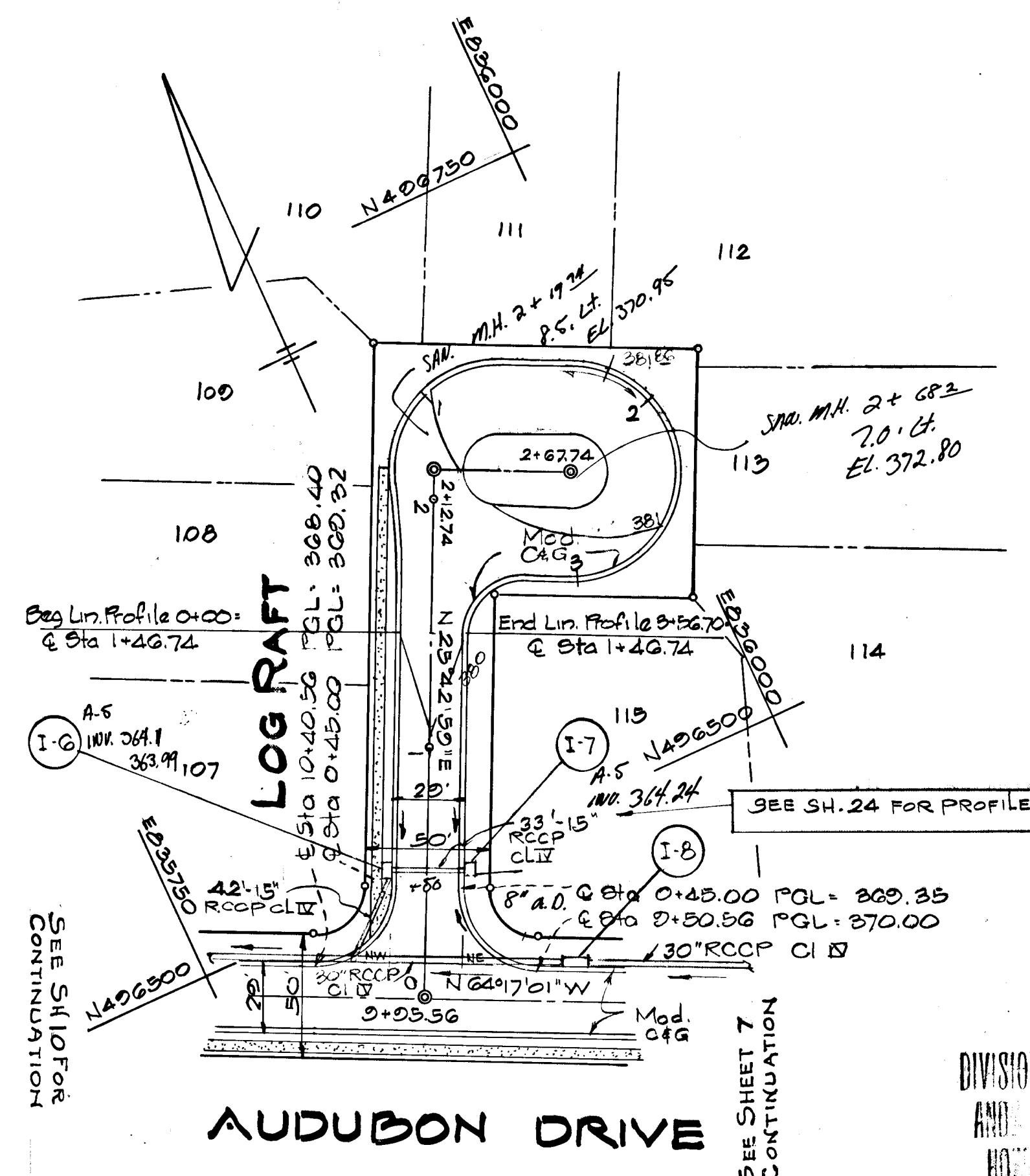
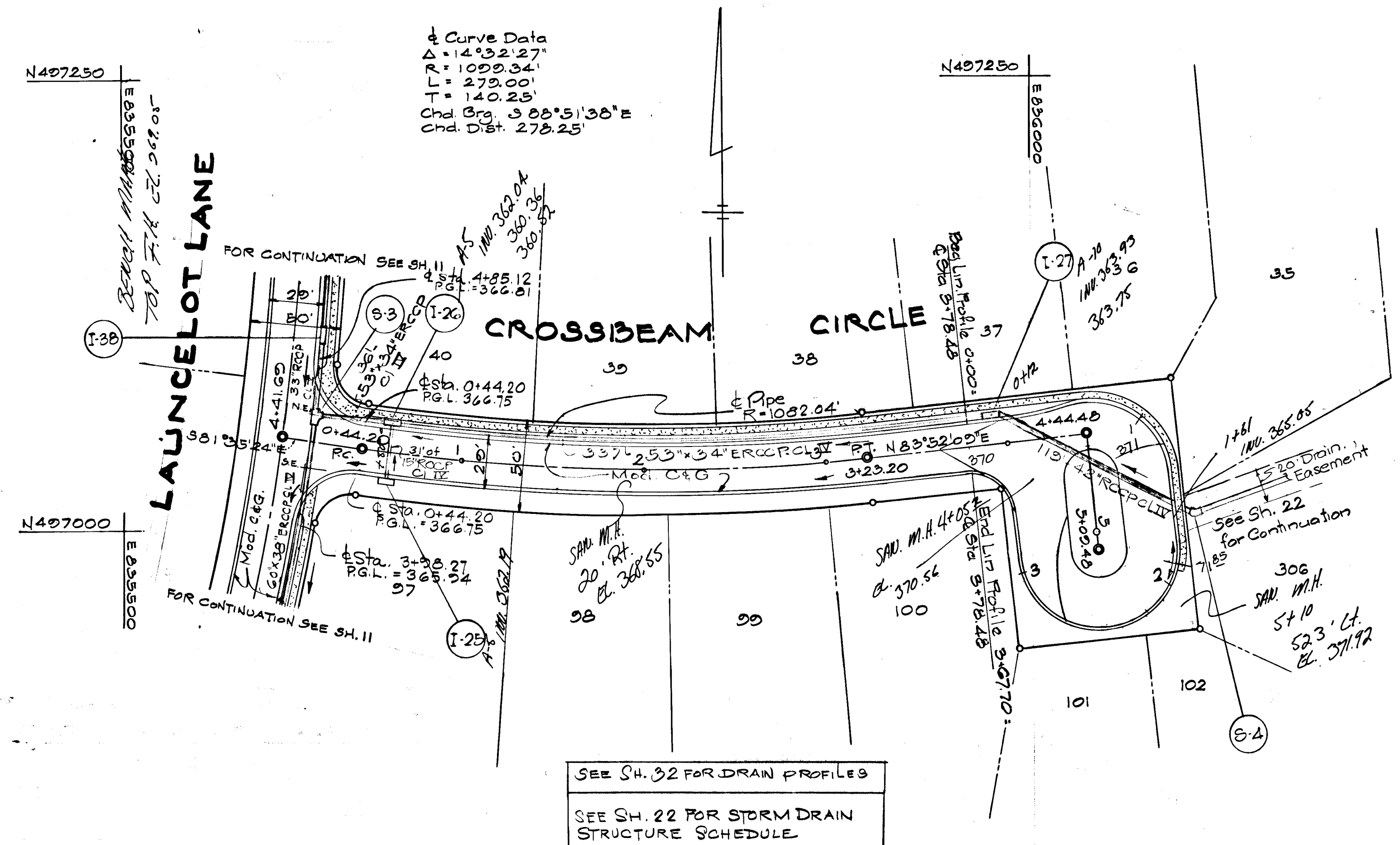
Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1- AREA 2

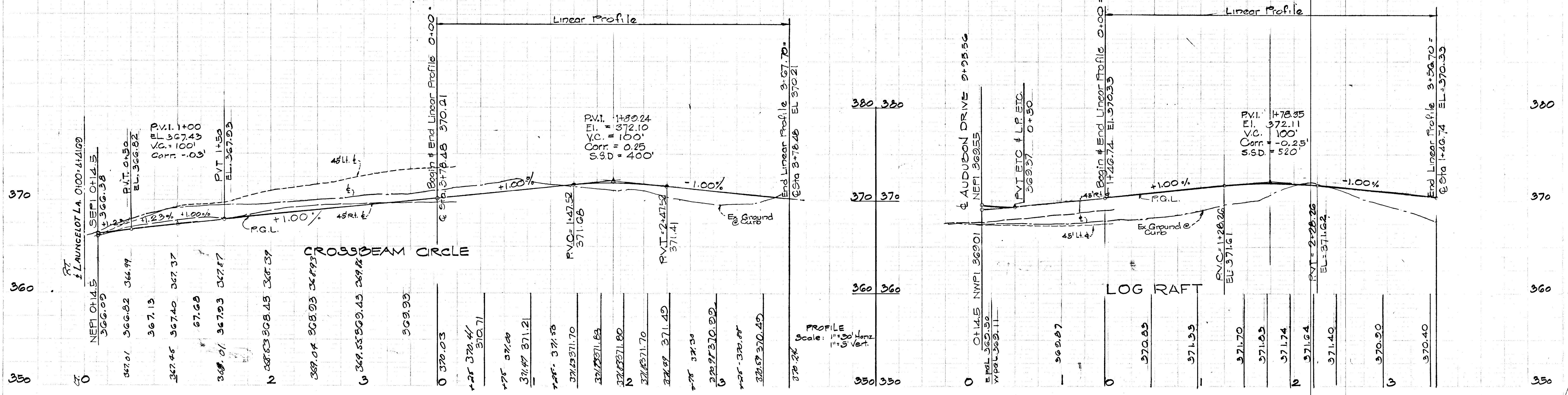
PROJECT TITLE
 PLAN & PROFILE
 CROSSBEAM CIRCLE - LOG RAFT

Des. By MJE	Scale: As Shown	Dwg. No. 12 of 37
Drn. By WWD	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	



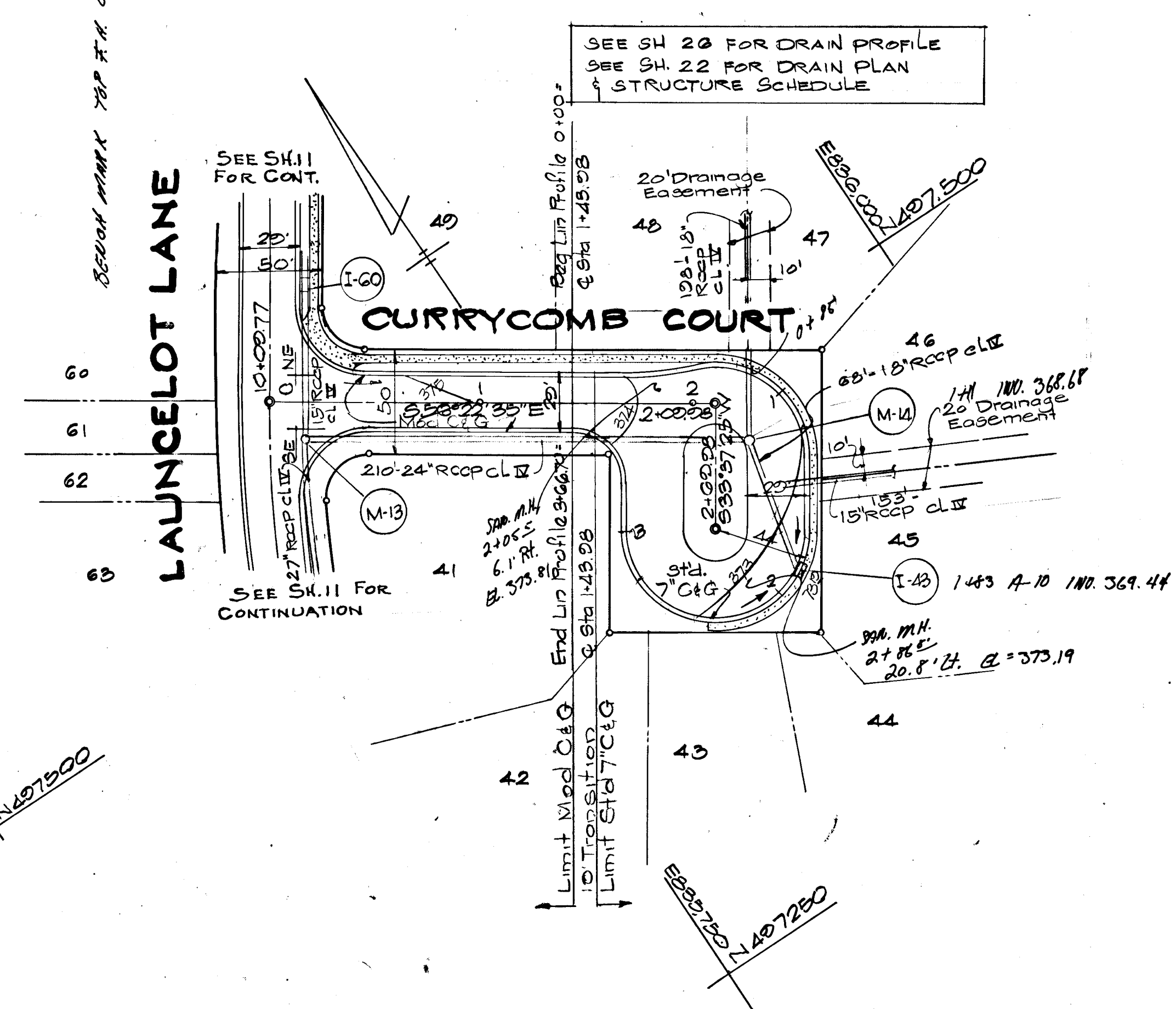
PLAN
 Scale: 1" = 30'

PROFILE
 Horiz. 1" = 30'
 Vert. 1" = 5'

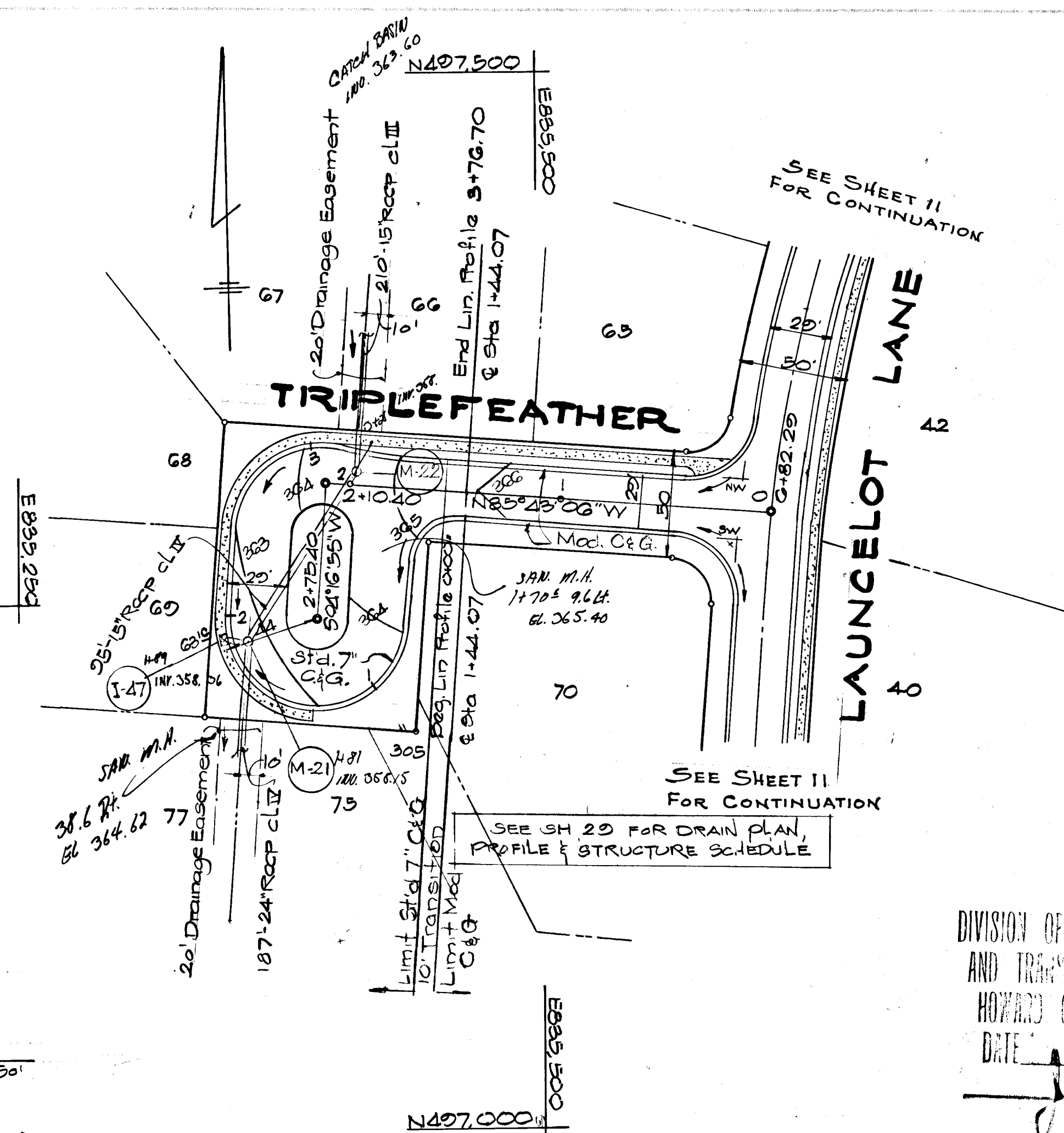


PROFILE
 Scale: 1" = 30' Horiz.
 1" = 5' Vert.

PLAN
Scale: 1" = 50'



PLAN
Scale: 1" = 50'



APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE: 5/24/73
JAC

DEPARTMENT OF PUBLIC WORKS
W.D. Falbert 5-29-73
CHIEF, BUREAU OF HIGHWAYS DATE
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
AND TRANSPORTATION PLANNING

Paul Lee
PAUL LEE
Reg. Engr.
No. 4047

MCA
MATZ, CHILDS & ASSOCIATES, INC.
CONSULTING ENGINEERS
1020 Cromwell Bridge Rd. Baltimore, Md.

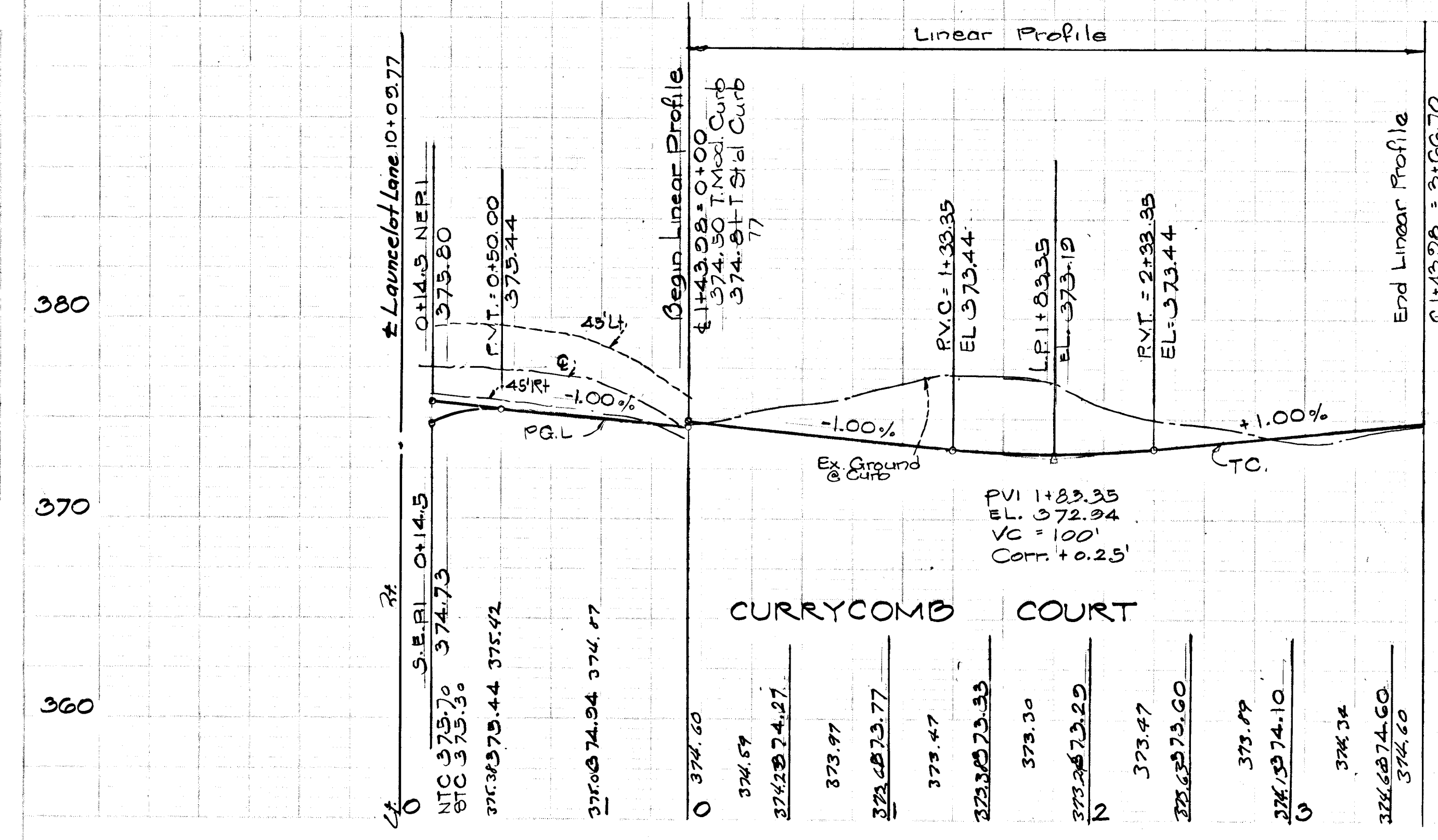
Rev. Date	Rev. No.	Revision Description

COLUMBIA MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY COLUMBIA MD. 21044

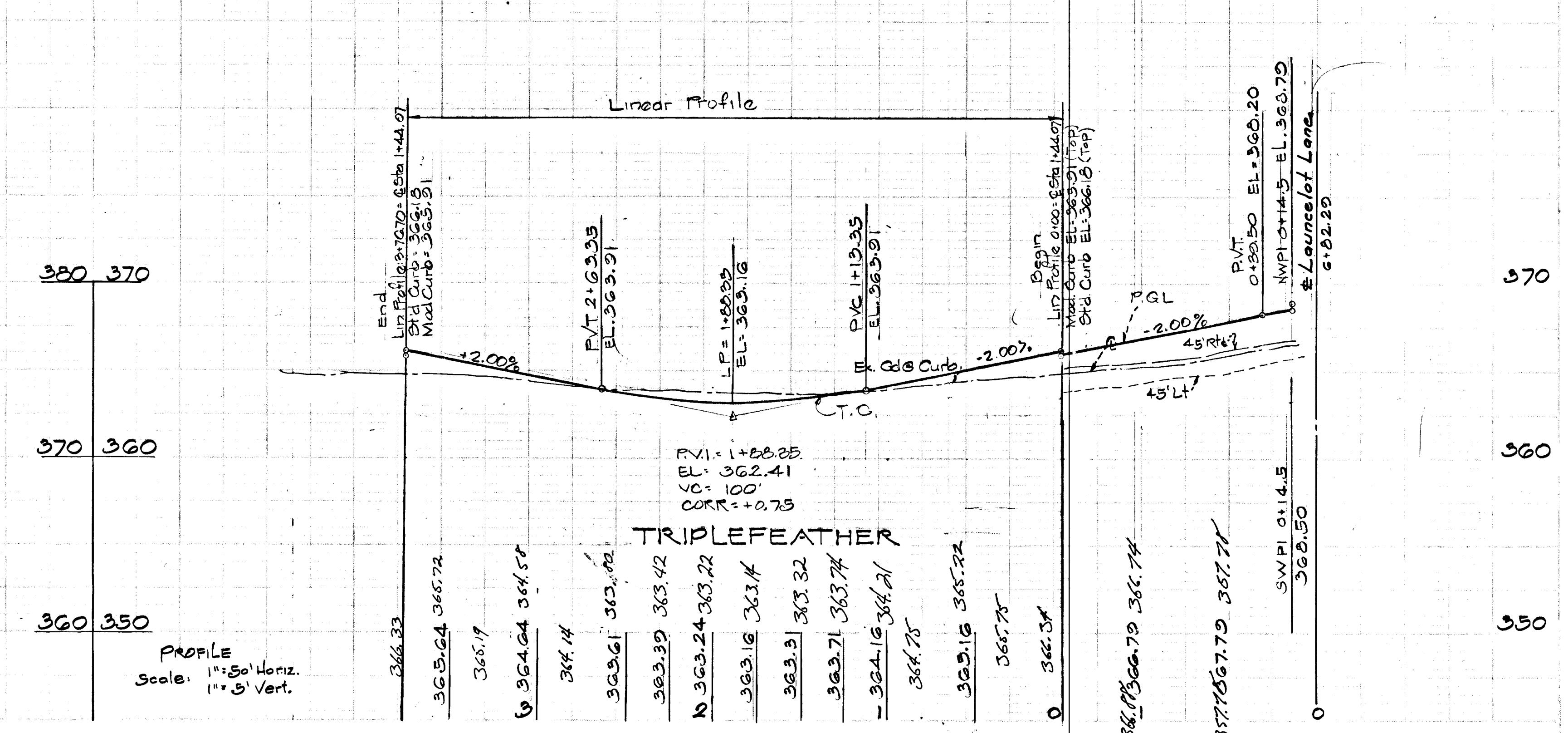
PROJECT AREA
VILLAGE OF HICKORY RIDGE
SECTION I - AREA 2

PROJECT TITLE
PLAN & PROFILE
CURRYCOMB COURT - TRIPLEFEATHER

Des. By M.J.E.	Scale AS SHOWN	Dwg. No. 13 OF 37
Drn. By L.R.	Date 5-7-73	CCF No.
Chk. By M.C.A.	Approved	



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



DEPARTMENT OF PUBLIC WORKS
W.O. Falbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4047

MCA

MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 304 1020 Cromwell Bridge Rd. Baltimore, Md.

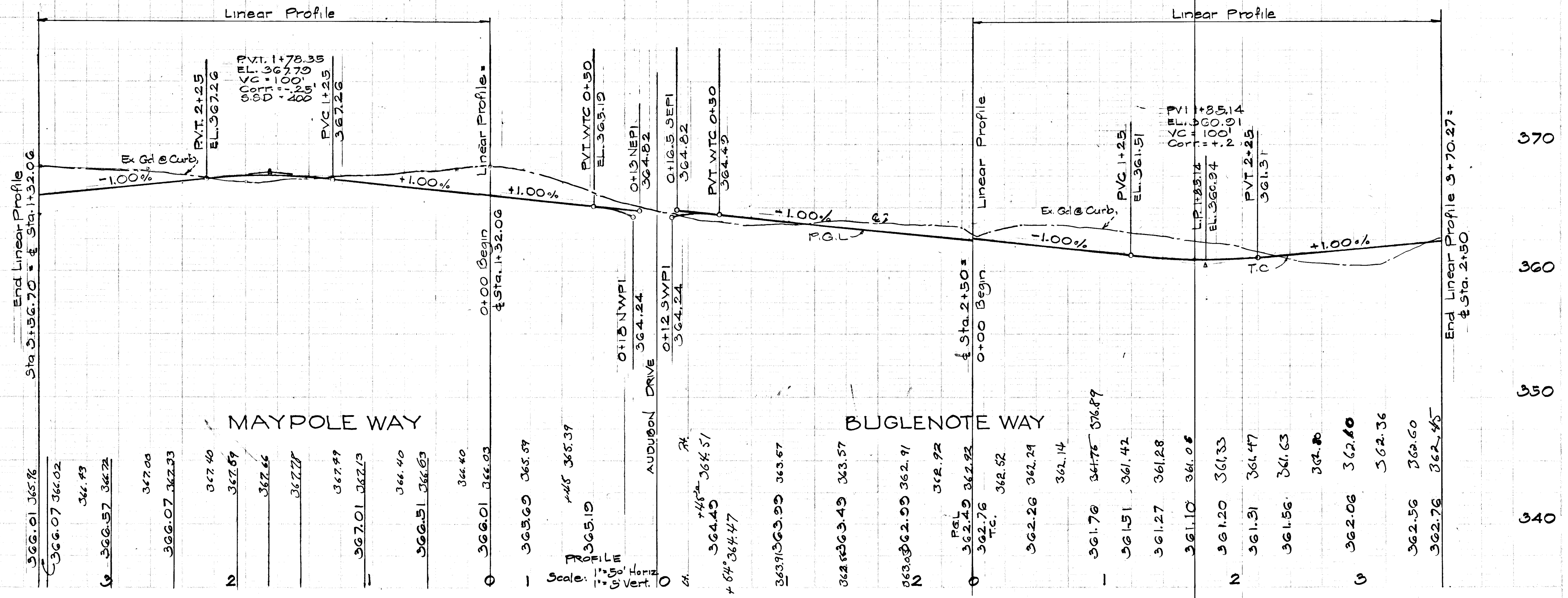
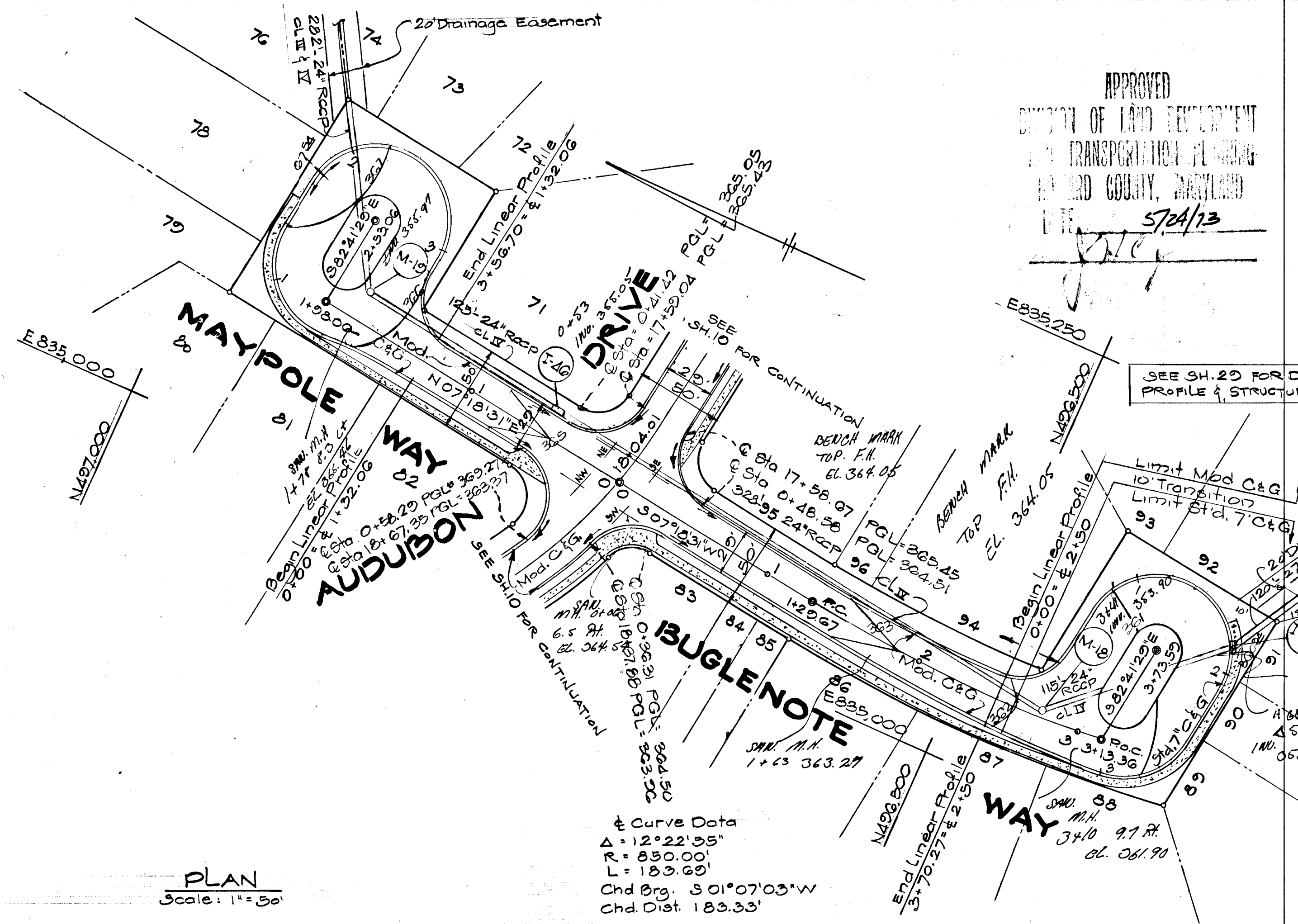
Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
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 HOWARD RESEARCH AND DEVELOPMENT CORP
 THE ROUSE COMPANY, COLUMBIA MD 21044

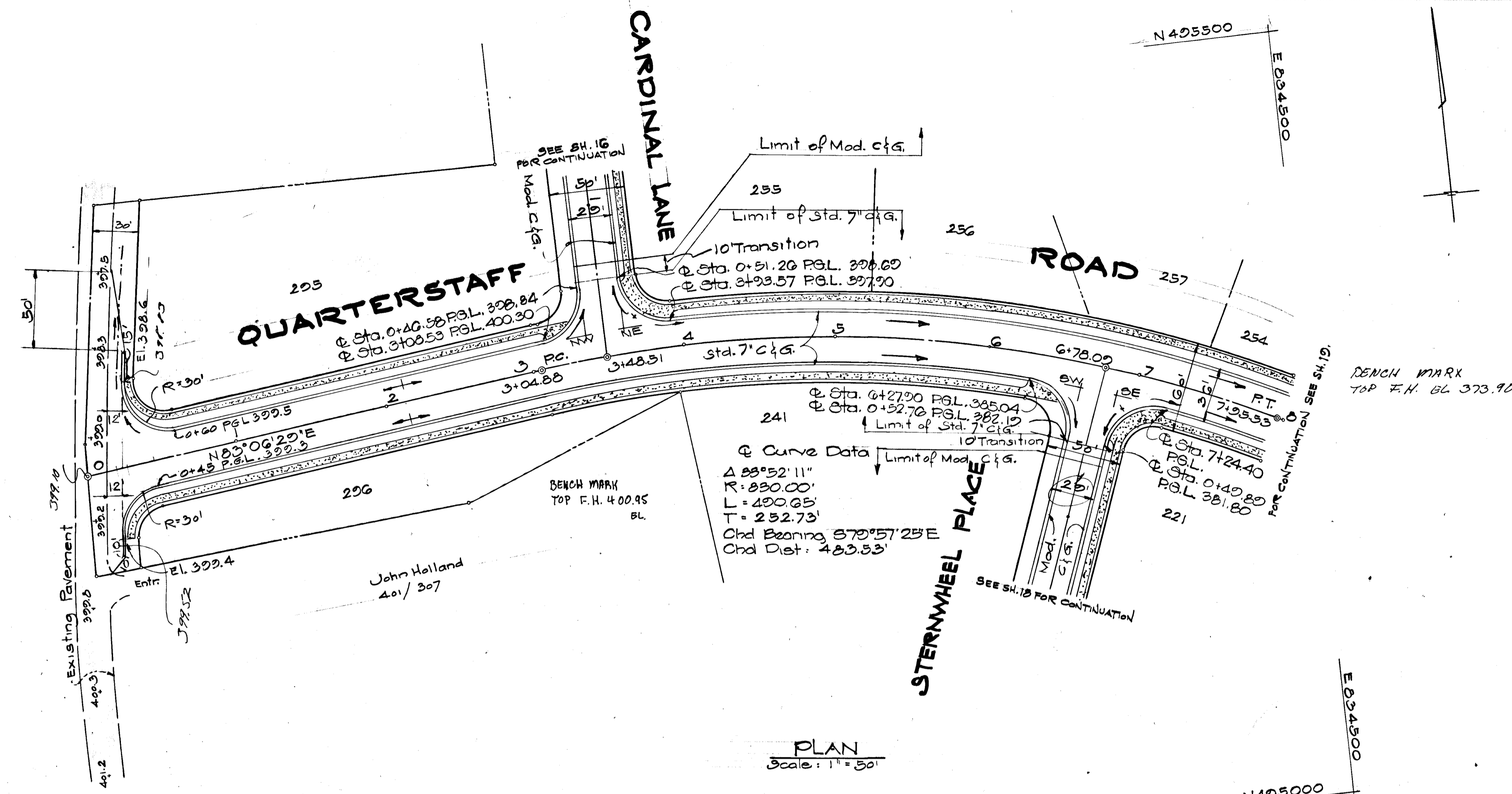
PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 Section 1 Area 2

PROJECT TITLE
 PLAN & PROFILE
 MAYPOLE WAY & BUGLENOTE WAY

Des. By MJE	Scale AS SHOWN	Dwg. No. 14 OF 37
Drn. By WWB	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	



FREETOWN ROAD



PLAN
Scale: 1" = 50'

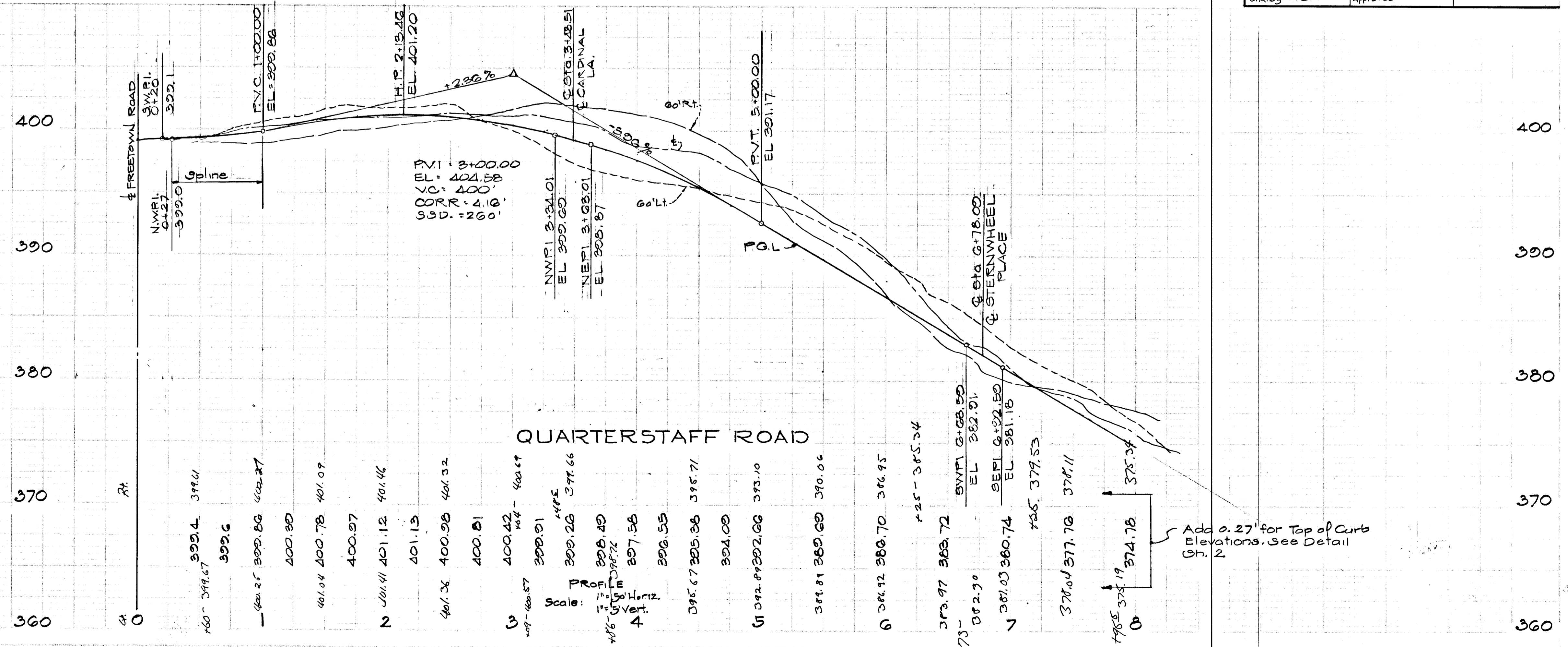
APPROVED
DEPARTMENT OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
5/24/73

DEPARTMENT OF PUBLIC WORKS
5-29-73
CHIEF, BUREAU OF HIGHWAYS
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

PAUL LEE
Reg. Eng.
No. 4047

MCA
MATZ, CHILDS & ASSOCIATES, INC.
CONSULTING ENGINEERS
1020 Croftwell Bridge Rd. Baltimore, Md.

Rev. Date	Rev. No.	Revision Description
COLUMBIA M A R Y L A N D		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY COLUMBIA, MD 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE Section 1 - Area 2		
PROJECT TITLE PLAN & PROFILE QUARTERSTAFF ROAD STA 0+00 TO 8+00		
Des. By MJE	Scale AS SHOWN	Dwg. No. 15 OF 37
Drn. By WYD	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	



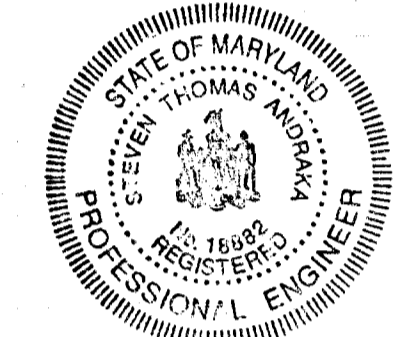
QUARTERSTAFF ROAD

Scale: 1" = 10' Vert.
1" = 50' Horiz.

Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4007

MCA
 MATZ, SHILOH & ASSOCIATES INC.
 CONSULTING ENGINEERS
 1015 Cromwell Bridge Rd., Baltimore, Md.

The Proposed Improvements Shown Hereon As a Revision Number 1 Have Been Prepared By Development Facilitators, Inc. On April 18, 1974 In Accordance With Capital Project D-107B5.
 5/11/74
 Steven T. Andracka, P.E. #18882 Date



CONSULTING ENGINEERS, SURVEYORS AND LAND PLANNERS
 804 BALTIMORE / ANNAPOLIS BLVD.
 P.O. BOX 864
 SEVENNA PARK, MD 21144
 PHONE (301) 847-2727

Rev. Date	Rev. No.	Revision Description

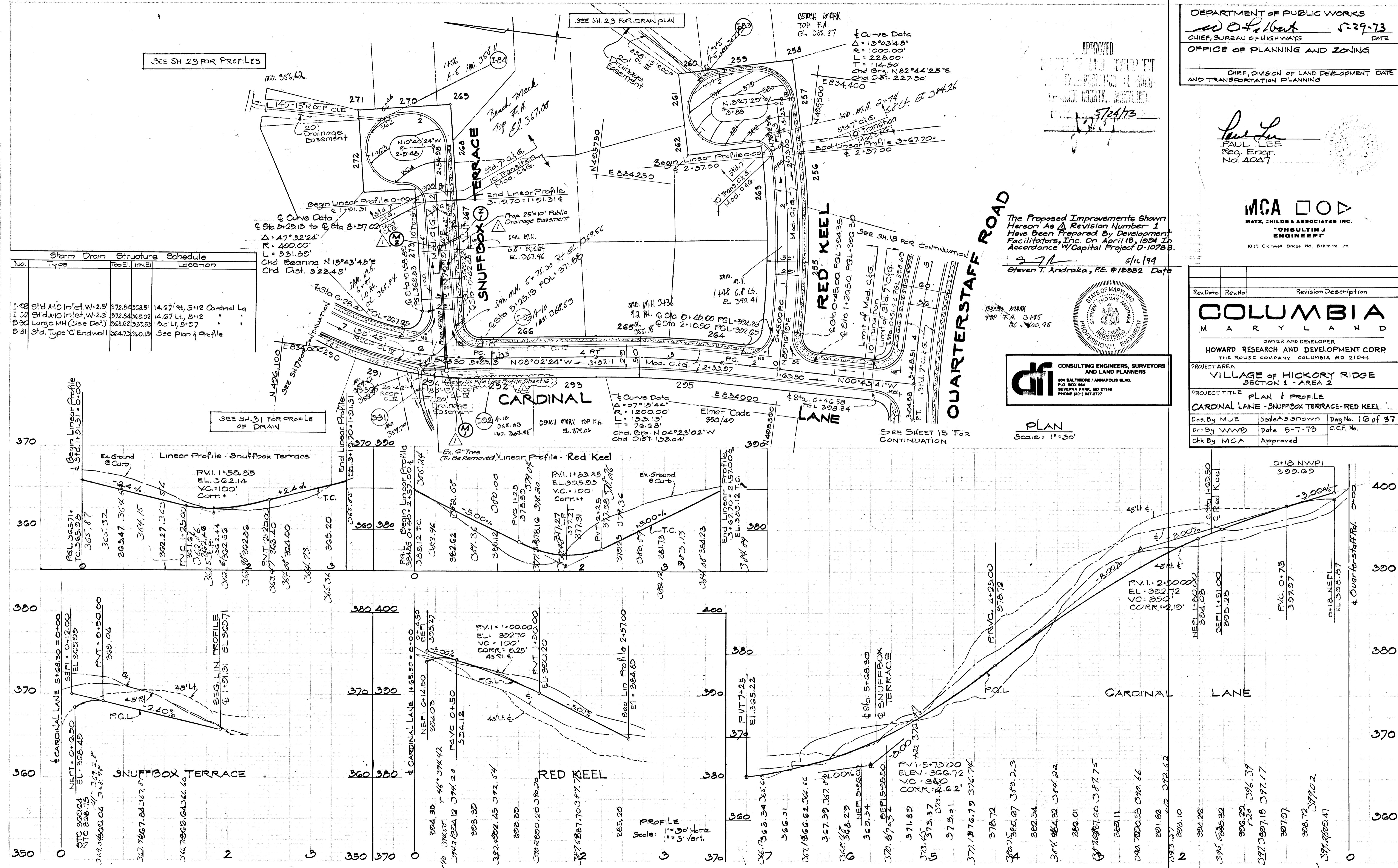
COLUMBIA MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

PROJECT TITLE
 PLAN & PROFILE
 CARDINAL LANE - SNUFFBOX TERRACE - RED KEEL

Des. By MJE Scale As Shown Dwg. No. 1G of 37
 Dwn By WVB Date 5-7-73 C.C.F. No.
 Chk By MCA Approved

PLAN
 Scale: 1"=50'

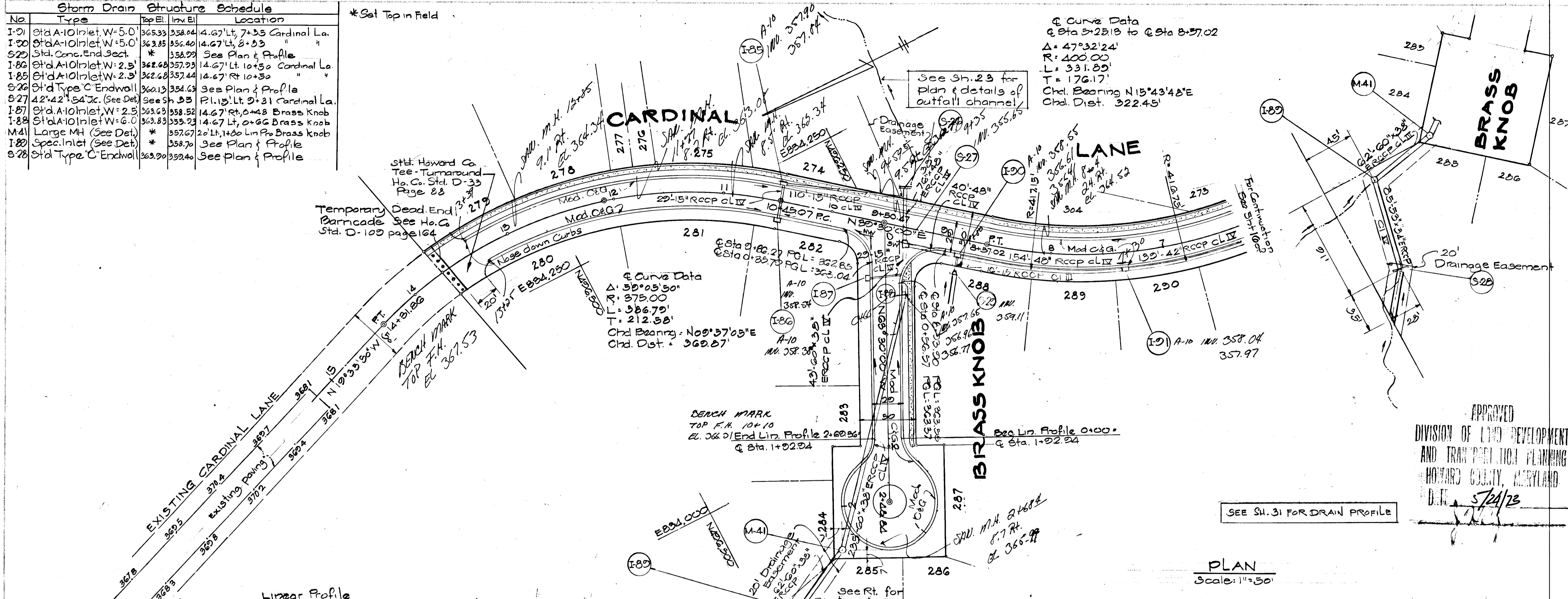


Storm Drain Structures Schedule

No.	Type	Top Ell. Inlet	Location	
1-02	Std. A-10 Inlet, W-2.5'	372.84	363.51	14.67' Rt, 5+12 Cardinal Ln
1-02	Std. A-10 Inlet, W-2.5'	372.84	362.02	14.67' Lt, 5+12
8-30	Large MH (See Det.)	363.62	352.53	150' Lt, 5+07
8-31	Std. Type 'C' Endwall	364.73	360.19	See Plan & Profile

Storm Drain Structure Schedule			
No.	Type	Top El.	Inv. El.
I-20	Std A-10 Inlet, W=5.0'	365.33	358.84
I-20	Std A-10 Inlet, W=5.0'	363.85	356.40
S-22	Std. Conc. End Sect.	*	356.29
I-88	Std A-10 Inlet, W=2.5'	362.68	357.93
I-88	Std A-10 Inlet, W=2.5'	362.68	357.44
S-27	Std Type C Endwall	360.13	354.64
S-27	42" x 42" S4 Jc. (See Det.)	See Sh. 23	See Plan & Profile
I-87	Std A-10 Inlet, W=2.5'	363.63	358.52
I-88	Std A-10 Inlet, W=6.0'	363.83	353.23
M-41	Large MH (See Det.)	357.67	20' Lt. 14" Dia. Brass Knob
I-88	Spec. Inlet (See Det.)	*	358.70
S-28	Std Type C Endwall	363.90	359.40

* Set Top in Field



DEPARTMENT OF PUBLIC WORKS
 W. Fulbert 5-79-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

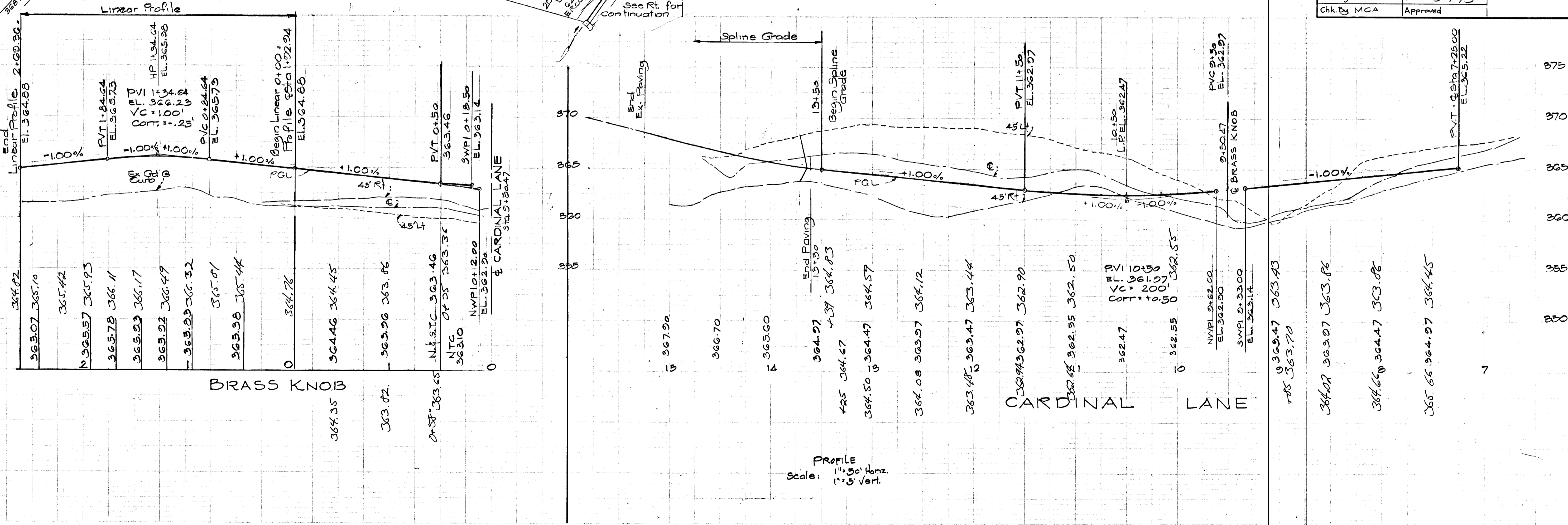
PAUL LEE
 Reg. Engr.
 No. 4047

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 MATZ, CHILDS & ASSOCIATES INC
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd. Baltimore, Md

Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY COLUMBIA MD 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1-AREA 2		
PROJECT TITLE PLAN & PROFILE CARDINAL LANE - BRASS KNOB		
Des. By M.J.E.	Scale As Shown	Dwg. No. 17 of 37
Drn. By W.W.D.	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 5/21/73

PLAN
 Scale: 1"=50'



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

DEPARTMENT OF PUBLIC WORKS
W O Felbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4047



MCA
 MATZ CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1024 Cromwell Bridge Rd., Baltimore, Md.

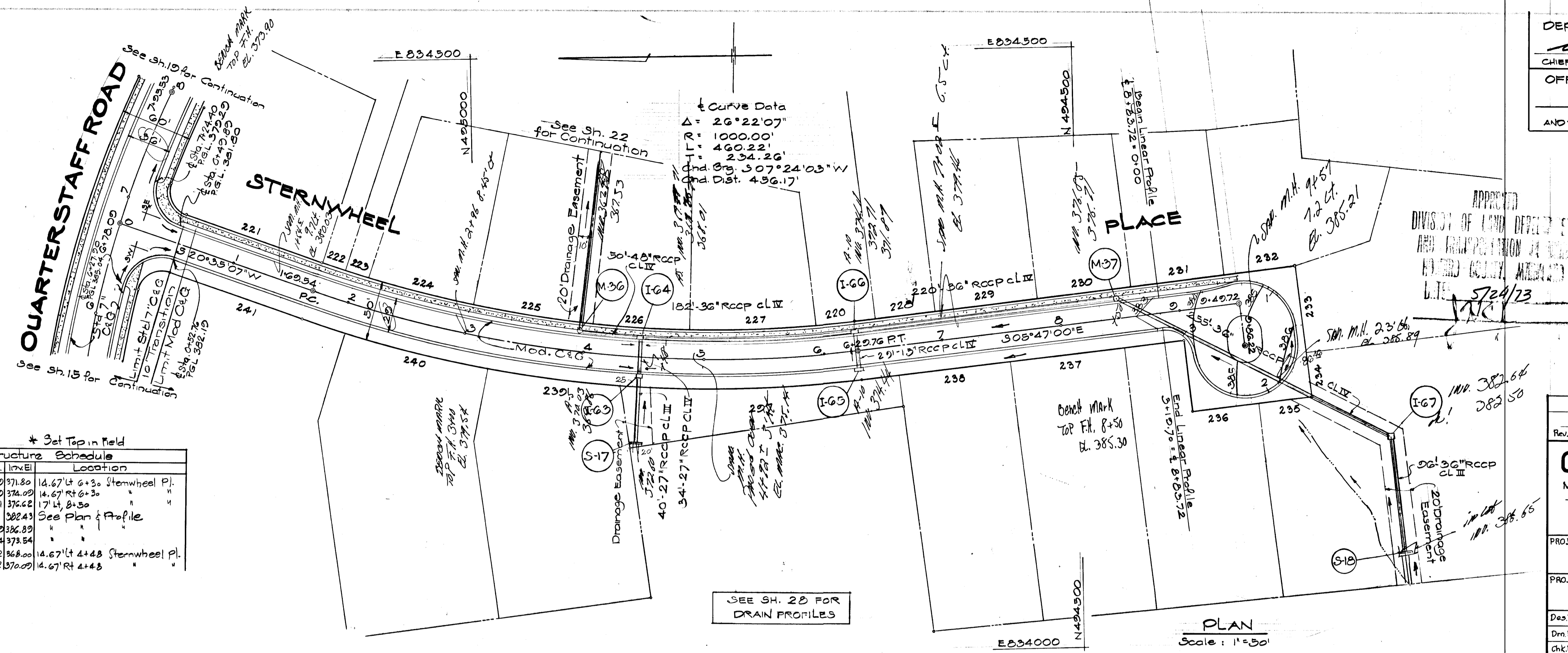
Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA, MD. 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

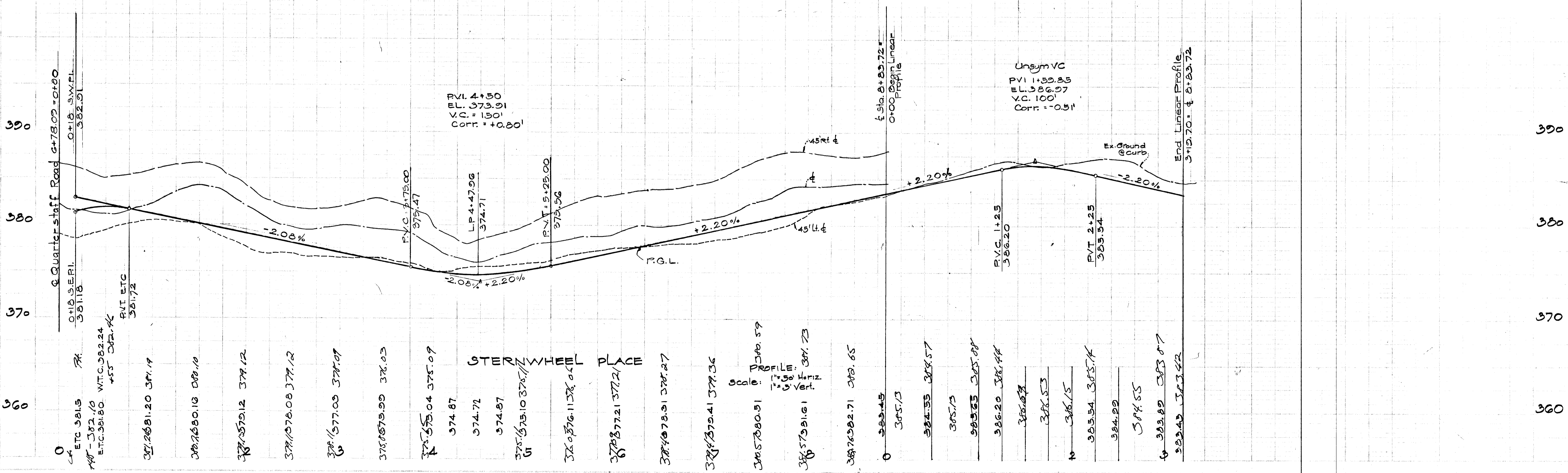
PROJECT TITLE
 PLAN & PROFILE
 STERNWHEEL PLACE

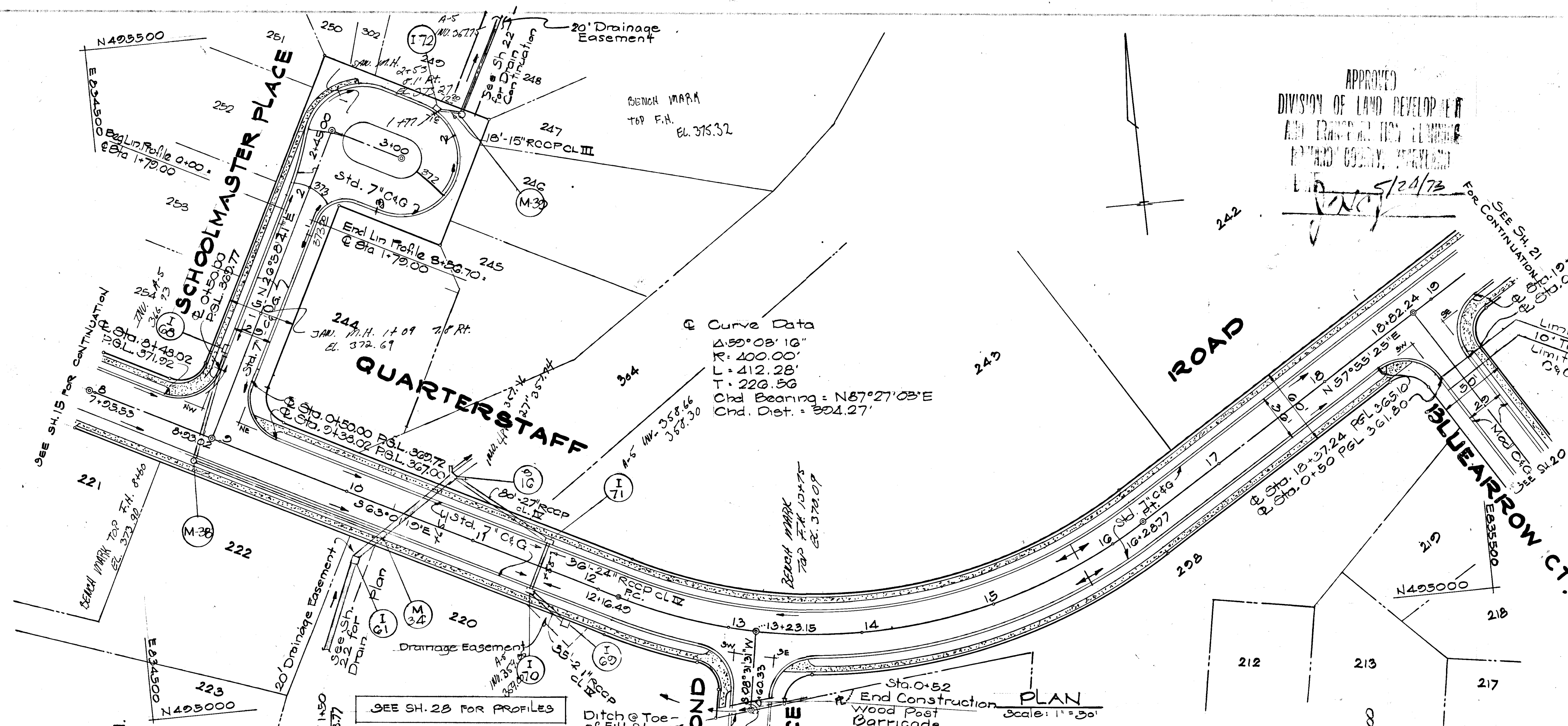
Des. By MJE	Scale As shown	Dwg. No. 18 of 37
Drn. By WVV	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	



* Set Top in Field

No.	Type	Top El.	Inlet El.	Location
I-66	Std A-10 Inlet, W=4.0'	378.09	371.80	14.67' Lt 6+30 Sternwheel Pl.
I-68	Std A-10 Inlet, W=2.5'	378.09	374.09	14.67' Rt 6+30
M-37	Shallow Manhole	382.71	376.62	17' Lt 8+50
I-67	Std. Type 'C' Inlet	382.43	*	See Plan & Profile
S-18	Std Type 'C' Endwall	350.89	336.89	
S-17	Std Type 'C' Endwall	376.54	373.54	
I-64	Std A-5 Inlet, W=5.0'	374.32	368.00	14.67' Lt 4+48 Sternwheel Pl.
I-63	Std A-5 Inlet, W=2.5'	374.32	370.00	14.67' Rt 4+48





Curve Data
 R=200.00'
 L=412.28'
 T=220.58'
 Chd. Bearing = N87°27'03"E
 Chd. Dist. = 304.27'

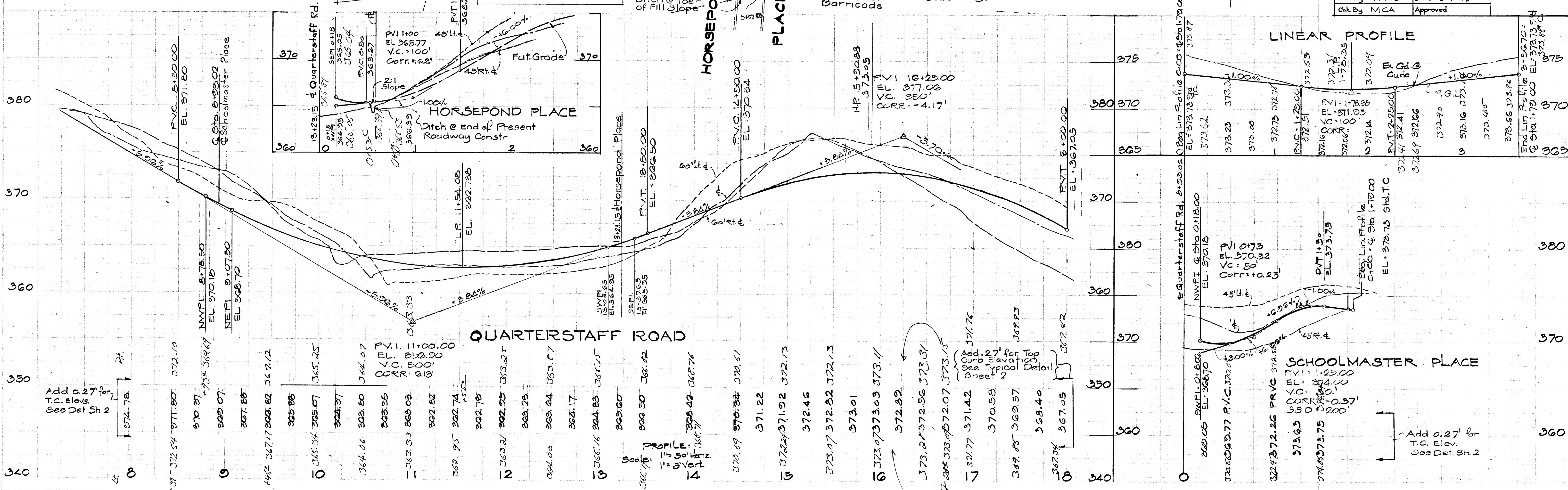
APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 MAY 19 1973
 For Continuation of 1922724 PGL 361.32
 1922724 PGL 361.52
 720 F.H. 1972
 EL. 364.17

DEPARTMENT OF PUBLIC WORKS
 W.O. Gilbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

PAUL LEE
 Reg. Engr.
 No. 4047

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd. Baltimore, Md.


Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY, COLUMBIA MD. 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE Section 1 Area 2		
PROJECT TITLE PLAN & PROFILE QUARTERSTAFF ROAD - STA. 8+ TO 10+ SCHOOLMASTER PLACE, GREATNEWS LANE		
Des. By	MJE	Scale As Shown
Drawn By	WVD	Date 5-7-73
Checked By	MCA	Approved
		Sheet No. 19 of 37
		CCF No.



4
 Add 0.27 for
 T.C. Elev.
 See Det. Sh. 2

Add 0.27 for
 T.C. Elev.
 See Det. Sh. 2

APPROVED
 PAUL LEE
 Reg. Engr.
 No. 4047

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore, Md.

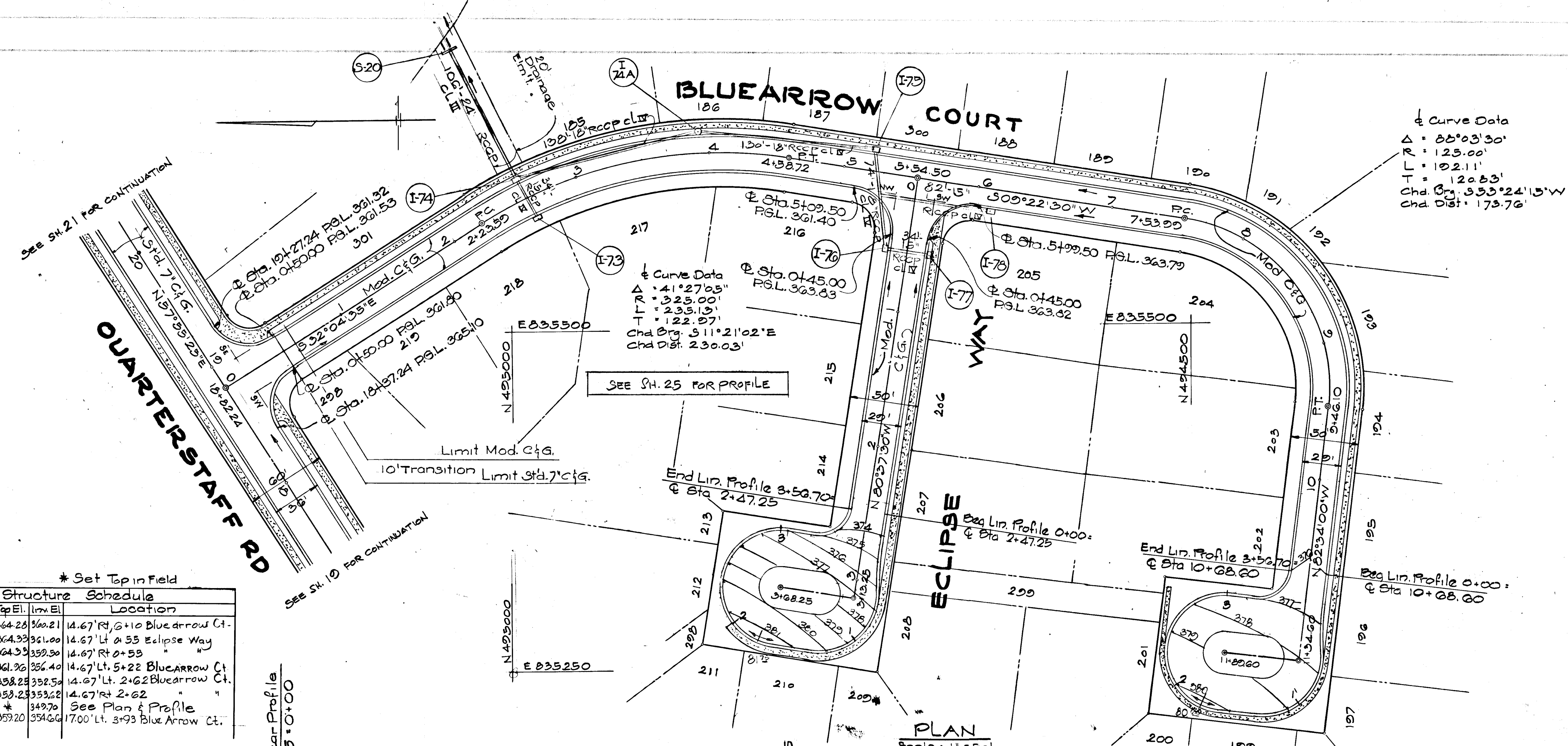
Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 - AREA 2

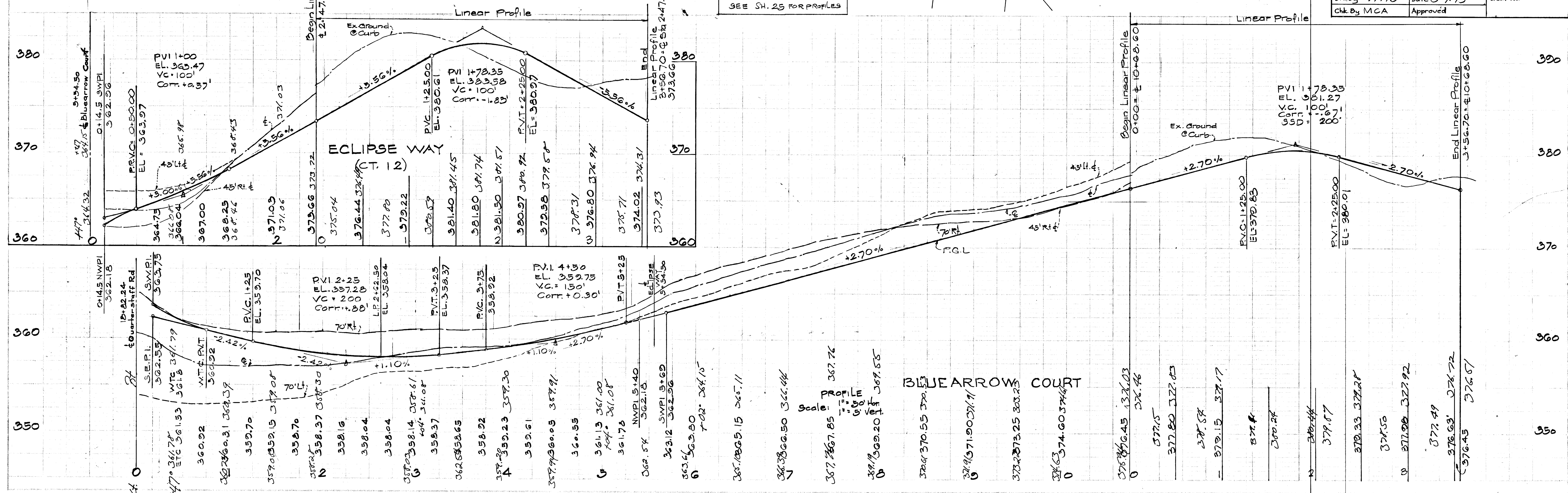
PROJECT TITLE
 PLAN & PROFILE
 BLUE ARROW COURT - ECLIPSE WAY

Des. By MJE	Scale As Shown	Eng. No. 20 of 37
Drn. By VVV/D	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	




* Set Top in Field

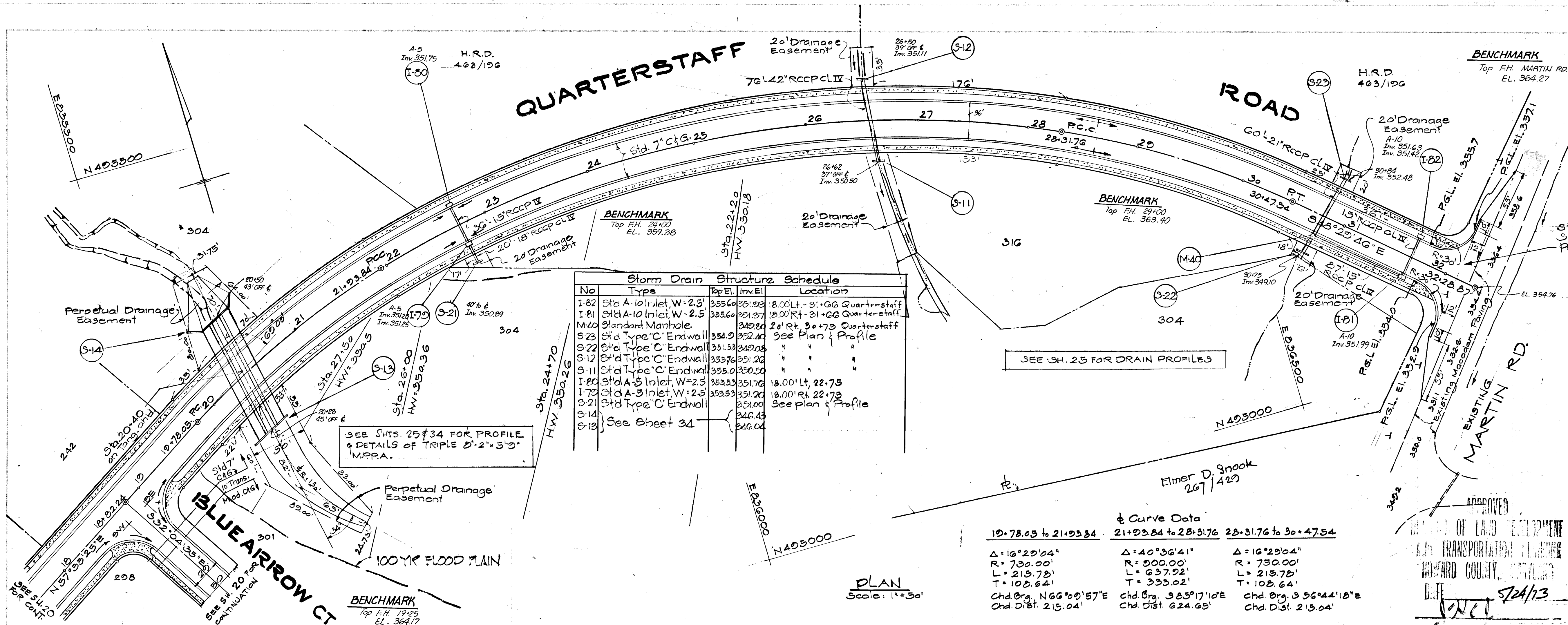
No	Storm Drain Structure Type	Schedule	Location
I-76	Std. A-10 Inlet, W-2.5	364.28	14.67' Rt. 6+10 Blue Arrow Ct.
I-77	Std. A-10 Inlet, W-2.5	364.33	14.67' Lt. 4+55 Eclipse Way
I-78	Std. A-10 Inlet, W-2.5	364.39	14.67' Rt. 0+55
I-79	Std. A-10 Inlet, W-2.5	364.39	14.67' Lt. 5+22 Blue Arrow Ct.
I-74	Std. A-5 Inlet, W-2.5	358.23	14.67' Lt. 2+62 Blue Arrow Ct.
I-75	Std. A-5 Inlet, W-2.5	358.23	14.67' Rt. 2+62
S-24	Std. Type 'C' Endwall	349.70	See Plan & Profile
I-74A	Shallow Manhole	359.20	17.00' Lt. 3+93 Blue Arrow Ct.



Paul Lee
 PAUL LEE
 Reg. Engr.
 No. 4047
 Std. Howard Co. Entrance
 See Std. Rd. Street Details
 Page 170

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore, Md.

Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY COLUMBIA, MD. 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE Sections 1 Area 2		
PROJECT TITLE PLAN & PROFILE QUARTERSTAFF RD - STA 10+ to 32+		
Des. By M.J.E.	Scale AS Shown	Dwg No 21 OF 37
Drn By WWD	Date 5-7-73	C.C.F. No
Chk. By MCA	Approved	



No.	Type	Top El.	Inv. El.	Location
I-82	Sta. A-10 Inlet, W=2.5'	355.60	351.28	18.00' Lt. - 21+66 Quarterstaff
I-81	Sta. A-10 Inlet, W=2.5'	355.60	351.37	18.00' Rt. - 21+66 Quarterstaff
M-40	Standard Manhole	354.2	352.80	20' Rt. 90+79 Quarterstaff
S-23	Std. Type 'C' Endwall	354.9	352.80	See Plan & Profile
S-22	Std. Type 'C' Endwall	351.53	347.08	
S-17	Std. Type 'C' Endwall	353.76	351.28	
S-11	Std. Type 'C' Endwall	355.0	350.50	
I-80	Sta. A-5 Inlet, W=2.5'	355.53	351.76	18.00' Lt. 22+75
I-78	Sta. A-5 Inlet, W=2.5'	355.53	351.20	18.00' Rt. 22+75
S-21	Std. Type 'C' Endwall	351.00	351.00	See Plan & Profile
S-14	See Sheet 34	346.43	346.43	
S-13	See Sheet 34	346.64	346.64	

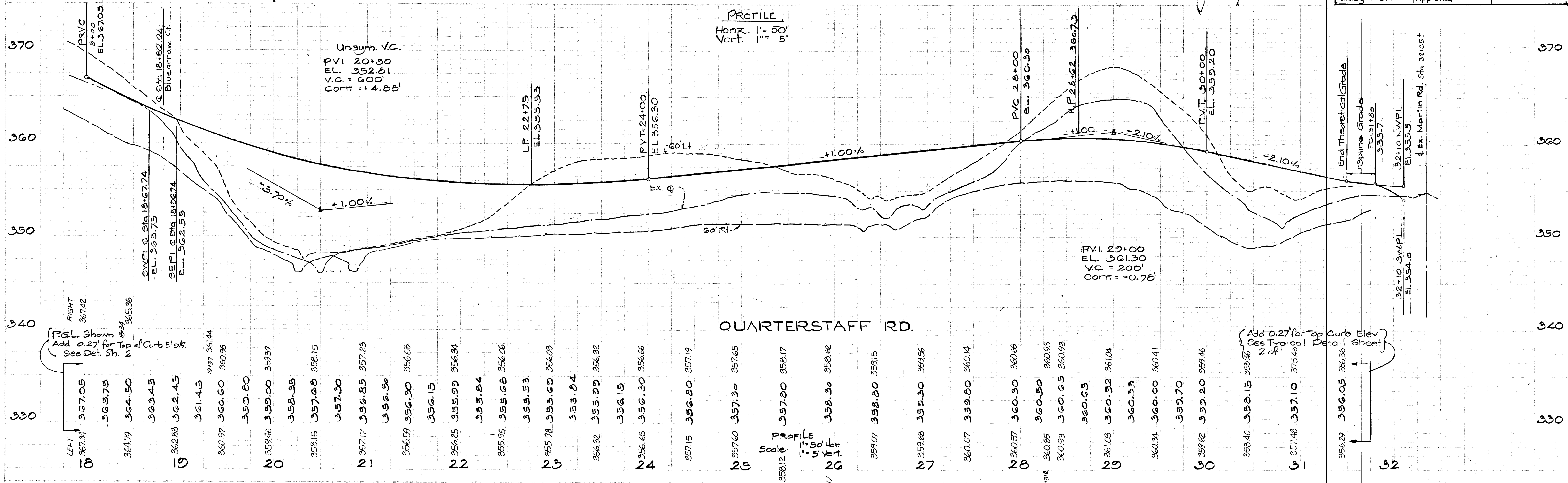
Curve Data

Station Range	Delta	Radius	Length	Tangent
19+78.05 to 21+03.84	16°29'04"	750.00'	215.78'	102.64'
21+03.84 to 28+31.76	40°36'41"	900.00'	637.92'	333.02'
28+31.76 to 30+47.54	16°29'04"	750.00'	215.78'	102.64'

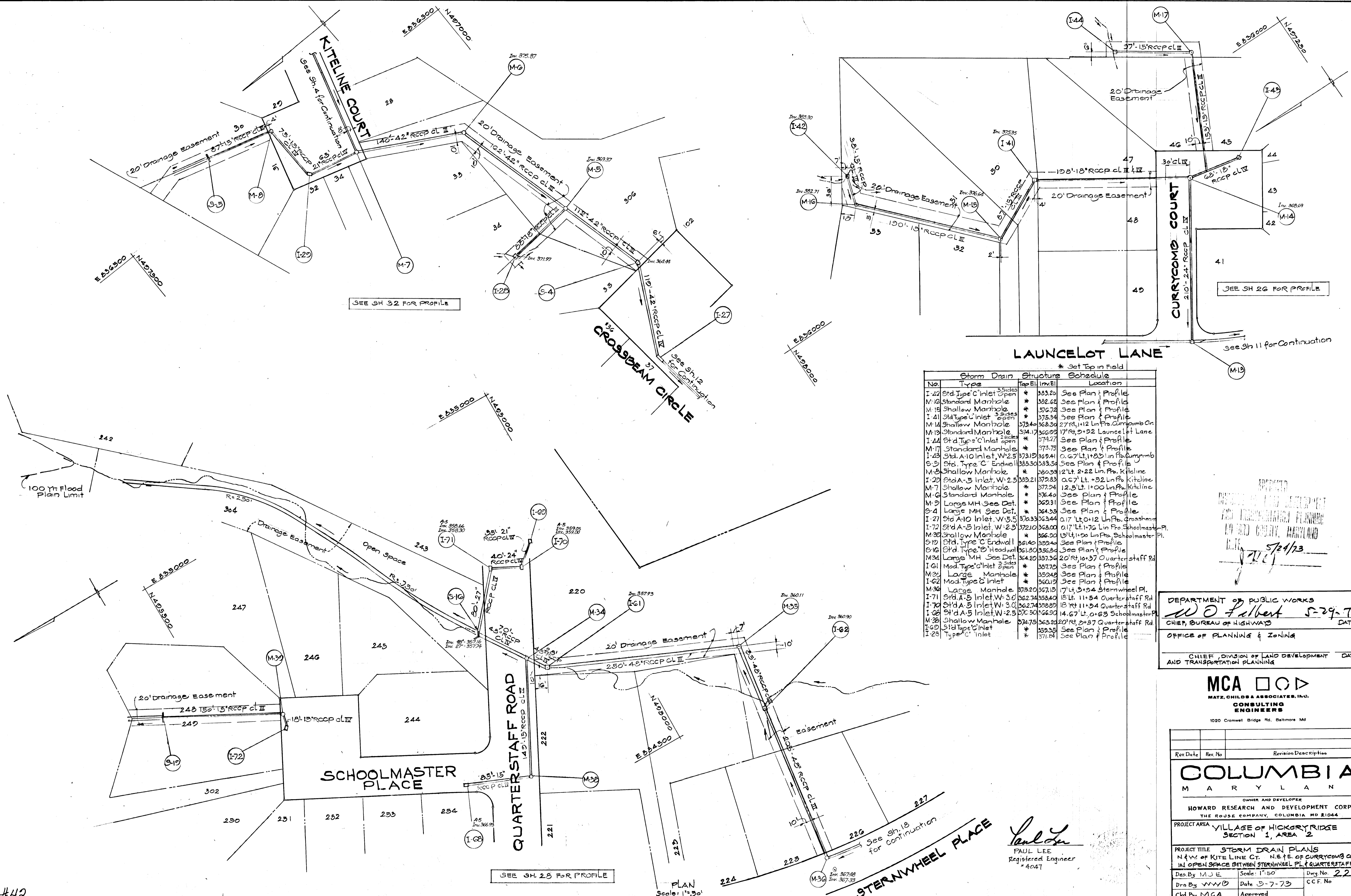
Chd. Org. N 66°00'57"E Chd. Org. S 85°17'10"E Chd. Org. S 36°44'18"E
 Chd. Dist. 215.04' Chd. Dist. 624.65' Chd. Dist. 215.04'

PLAN
 Scale: 1"=50'

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



QUARTERSTAFF RD.



* Set Top in Field

No.	Storm Drain Structure Type	Top El.	Inv. El.	Location
I-27	Std. Type 'C' Inlet	375.20	375.20	See Plan & Profile
M-10	Standard Manhole	382.62	382.62	See Plan & Profile
M-18	Shallow Manhole	376.72	376.72	See Plan & Profile
I-41	Std. Type 'C' Inlet	375.34	375.34	See Plan & Profile
M-14	Shallow Manhole	375.40	368.30	27' Rt. 1+12 Lin. Pr. Currycomb Cr.
M-19	Standard Manhole	374.17	369.99	17' Rt. 2+22 Launcelot Lane
I-44	Std. Type 'C' Inlet	374.27	374.27	See Plan & Profile
M-17	Standard Manhole	373.78	373.78	See Plan & Profile
I-43	Std. A-10 Inlet, W=2.5	373.12	369.41	0.67' Lt. 1+8.2 Lin. Pr. Currycomb
S-5	Std. Type 'C' Endwall	365.50	363.54	See Plan & Profile
M-5	Shallow Manhole	380.93	380.93	12' Lt. 2+22 Lin. Pr. Kiteline
I-23	Std. A-5 Inlet, W=2.5	383.21	372.83	0.67' Lt. +52 Lin. Pr. Kiteline
M-7	Shallow Manhole	377.24	377.24	12.5' Lt. 1+00 Lin. Pr. Kiteline
M-2	Standard Manhole	376.40	376.40	See Plan & Profile
M-9	Large MH See Det.	362.31	362.31	See Plan & Profile
S-4	Large MH See Det.	364.38	364.38	See Plan & Profile
I-27	Std. A-10 Inlet, W=5.5	372.33	362.44	0.17' Lt. 0+12 Lin. Pr. Crossbeam
I-72	Std. A-5 Inlet, W=2.5	372.10	368.00	0.17' Lt. 1+76 Lin. Pr. Schoolmaster Pl.
M-30	Shallow Manhole	366.20	366.20	13' Lt. 1+26 Lin. Pr. Schoolmaster Pl.
S-10	Std. Type 'C' Endwall	361.40	359.40	See Plan & Profile
S-16	Std. Type 'D' Headwall	361.80	356.80	See Plan & Profile
M-34	Large MH See Det.	364.20	357.36	20' Rt. 10+37 Quarterstaff Rd
I-61	Mod. Type 'C' Inlet	357.78	357.78	See Plan & Profile
M-32	Large Manhole	352.48	352.48	See Plan & Profile
I-62	Mod. Type 'C' Inlet	360.19	360.19	See Plan & Profile
M-36	Large Manhole	373.20	367.15	7' Lt. 3+34 Sternwheel Pl.
I-71	Std. A-5 Inlet, W=3.0	362.74	358.40	15' Lt. 11+34 Quarterstaff Rd
I-70	Std. A-5 Inlet, W=3.0	362.74	358.89	15' Rt. 11+34 Quarterstaff Rd
I-68	Std. A-5 Inlet, W=2.5	370.50	366.90	14.67' Lt. 0+65 Schoolmaster Pl.
M-28	Shallow Manhole	374.75	363.20	20' Rt. 2+87 Quarterstaff Rd
S-20	Std. Type 'C' Inlet	359.25	359.25	See Plan & Profile
I-28	Type 'C' Inlet	371.84	371.84	See Plan & Profile

APPROVED
 PROJECT ENGINEER
 AND TRANSPORTATION PLANNING
 IN HICKORY RIDGE, MARYLAND
 DATE 5/24/73
 J. J. C.

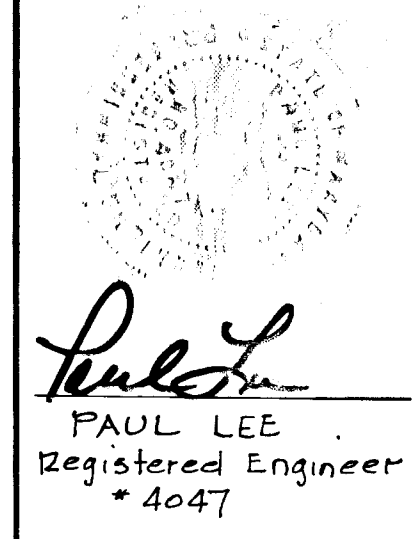
DEPARTMENT OF PUBLIC WORKS
 W. O. Falbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND TRANSPORTATION PLANNING

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore Md

Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY, COLUMBIA, MD 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1, AREA 2		
PROJECT TITLE STORM DRAIN PLANS N.W. of KITELINE CT. N.E. of CURRYCOMB COURT IN OPEN SPACE BETWEEN STERNWHEEL PL. & QUARTERSTAFF RD.		
Des. By MJE	Scale: 1"=50'	Dwg. No. 22 of 37
Drn. By WVD	Date 5-7-73	CCF. No.
Clk. By MCA	Approved	

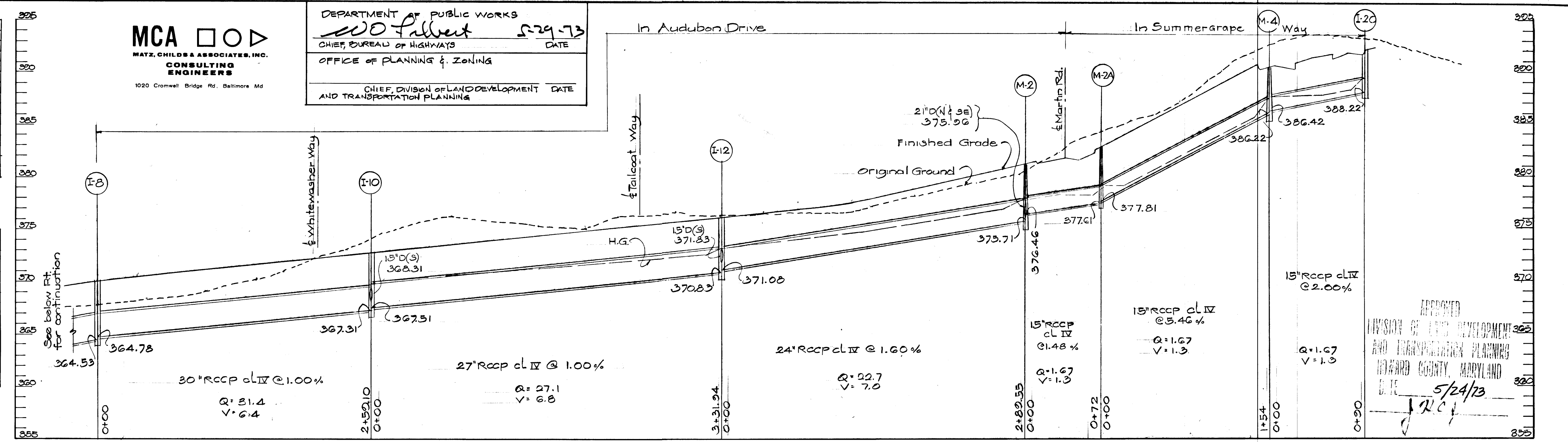
Paul Lee
 PAUL LEE
 Registered Engineer
 #4047

PLAN
 Scale: 1"=30'

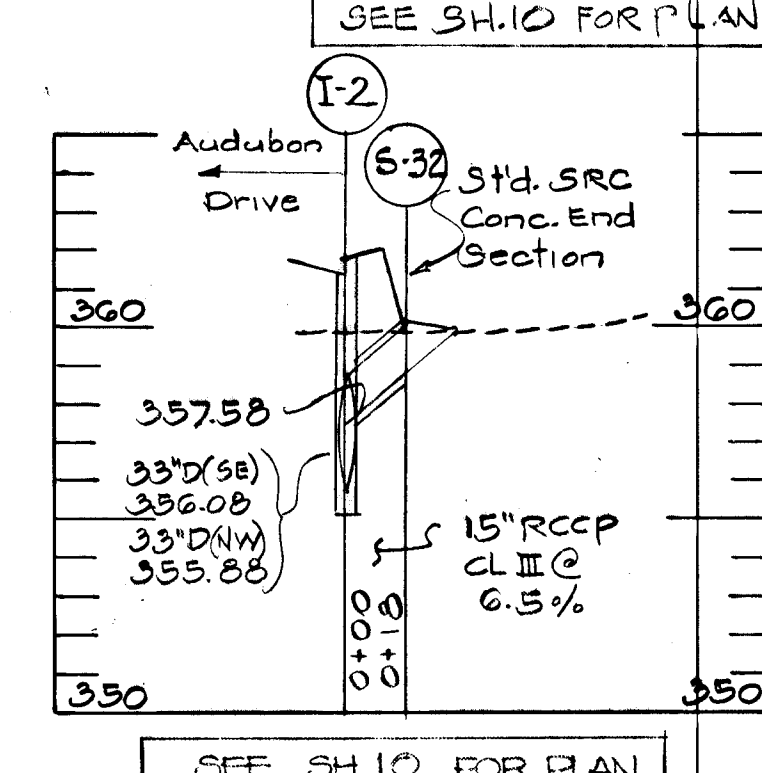
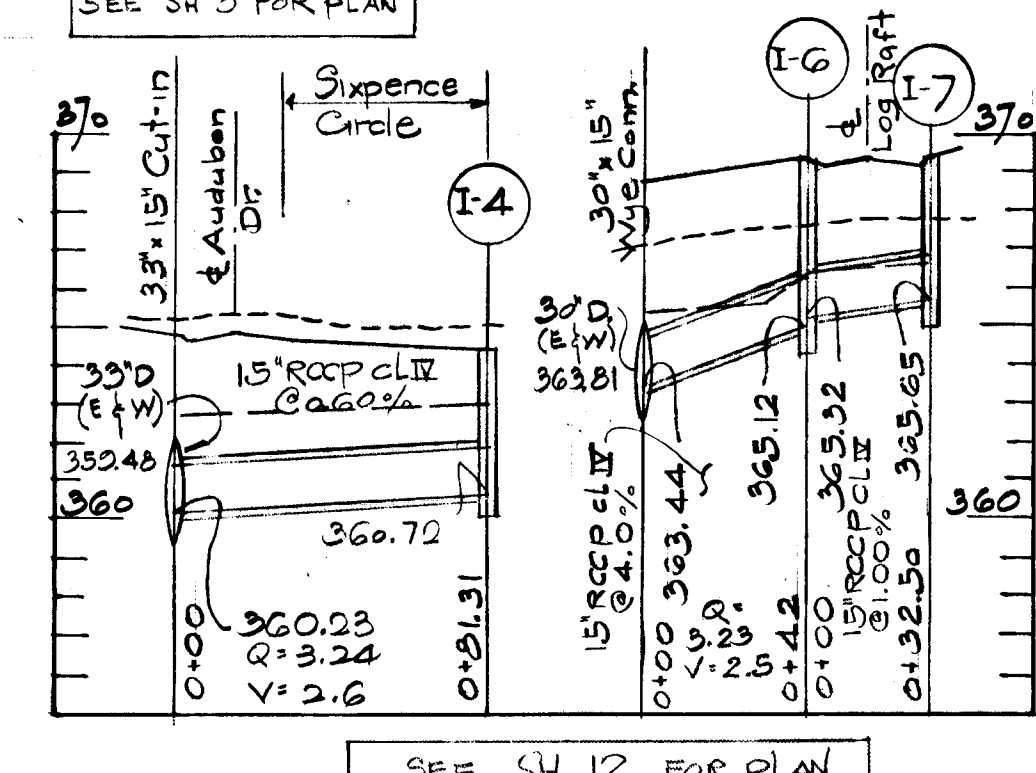
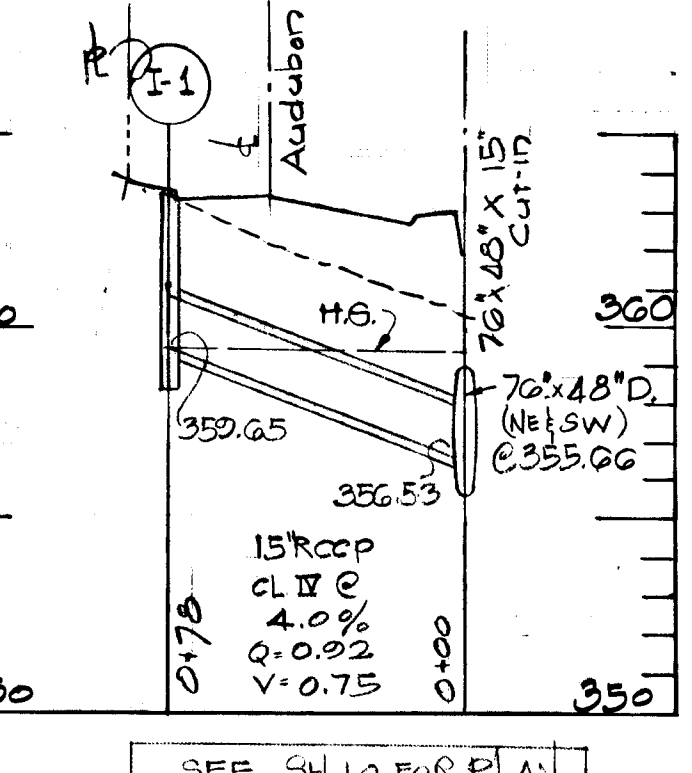
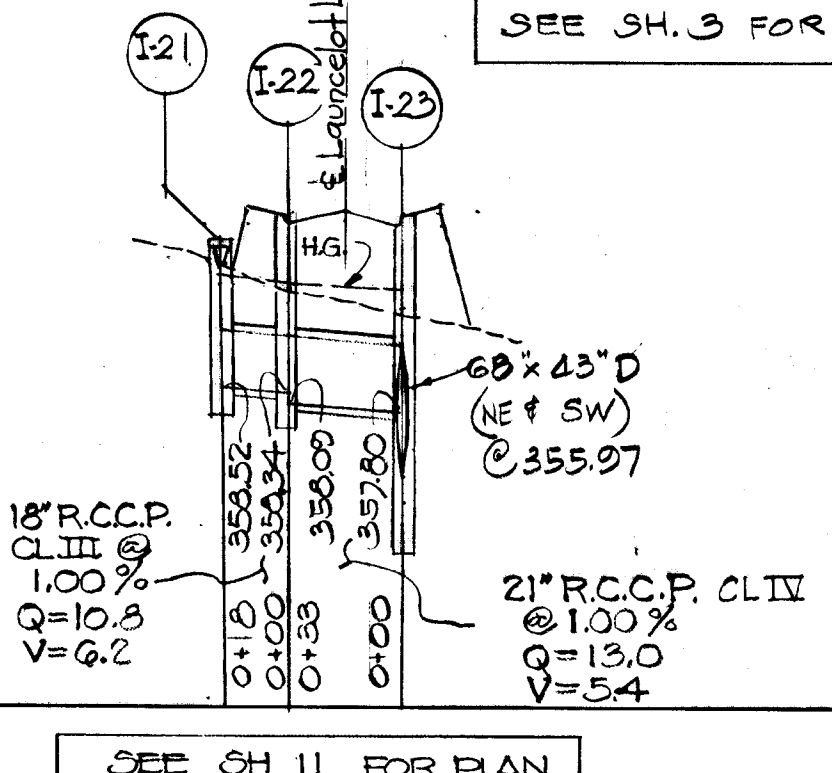
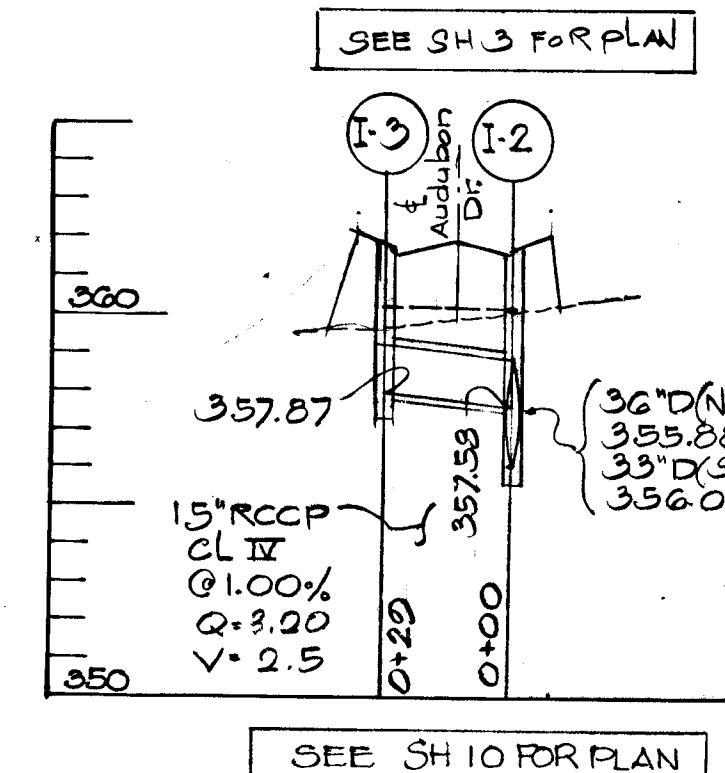
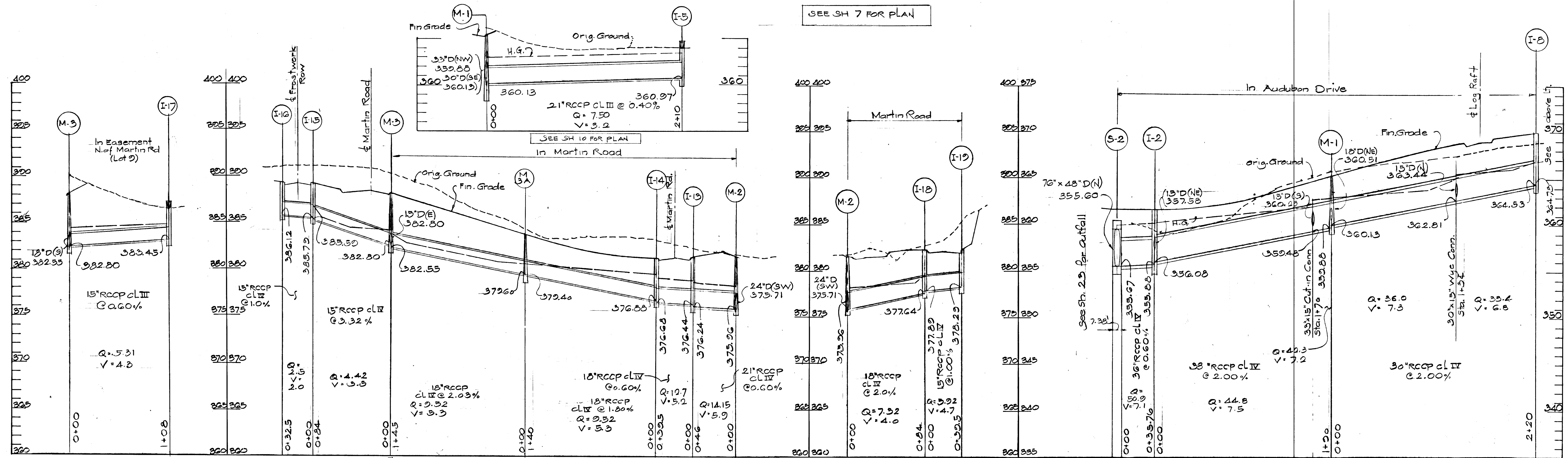


MCA **CONSULTING ENGINEERS**
 1020 Cromwell Bridge Rd. Baltimore Md

DEPARTMENT OF PUBLIC WORKS
 W. J. Falbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND TRANSPORTATION PLANNING



APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 5/24/73
 JRC



PROFILE
 Scale: Horiz. 1" = 30'
 Vert. 1" = 5'

Rev. Date	Rev. No.	Revision Description

COLUMBIA MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE HOUSE COMPANY COLUMBIA MD 21044

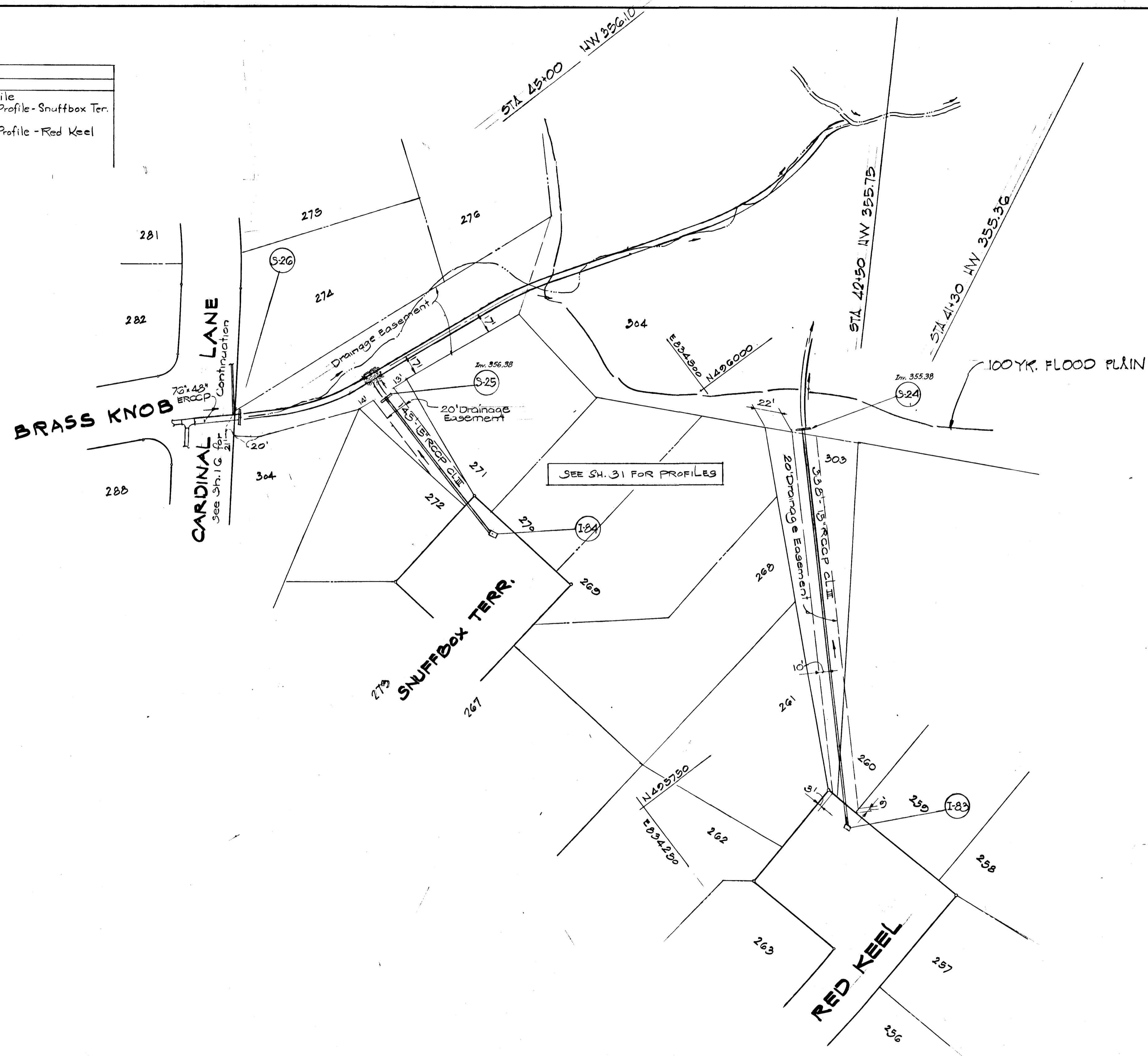
PROJECT AREA: VILLAGE OF HICKORY RIDGE
 SECTION 1 AREA 2

PROJECT TITLE: STORM DRAIN PROFILES
 AUDUBON DRIVE, MARTIN ROAD

Des. By MJE Scale A-S shown Dwg. No. 24 of 37
 Dwn. By WVB Date 5/7/73 C.C.F. No.
 Chk. By MCA Approved

#112


Storm Drain Structure Schedule				
No.	Type	Top El.	Invert El.	Location
9-25	Std Type 'C' Endwall	358.75	356.75	See Plan & Profile
I-84	Std A-5 Inlet W=2.5'	362.44	358.20	0.17' Lt., 1.58' Rt. Lin. Profile - Snuffbox Terr.
S-24	Std Type 'C' Endwall	357.50	355.50	See Plan & Profile
I-83	Std A-5 Inlet, W=2.5'	377.21	367.67	0.17' Lt., 1.83' Rt. Lin. Profile - Red Keel



SEE SH. 31 FOR PROFILES

PLAN
Scale: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
W. O. Falbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND TRANSPORTATION PLANNING

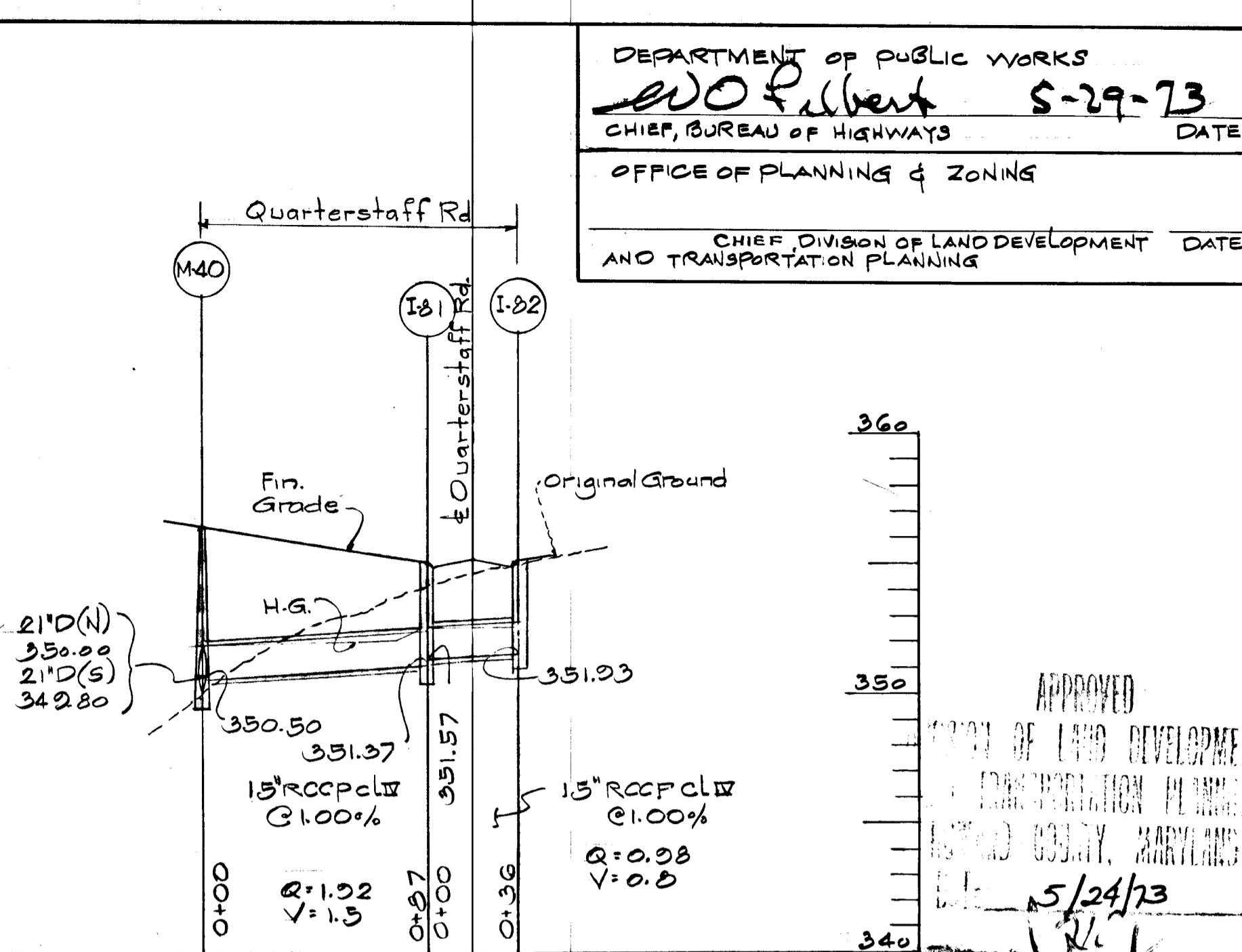
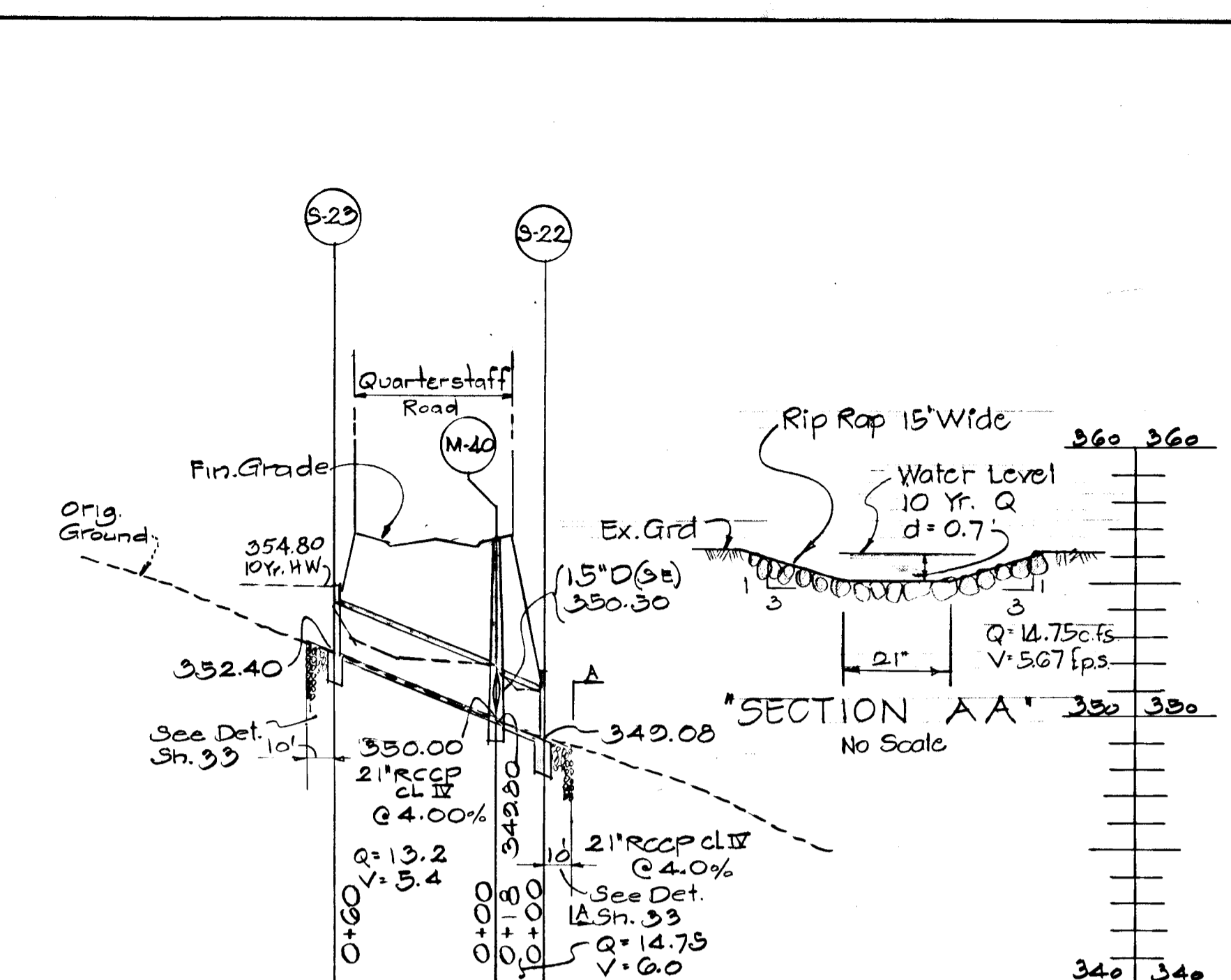
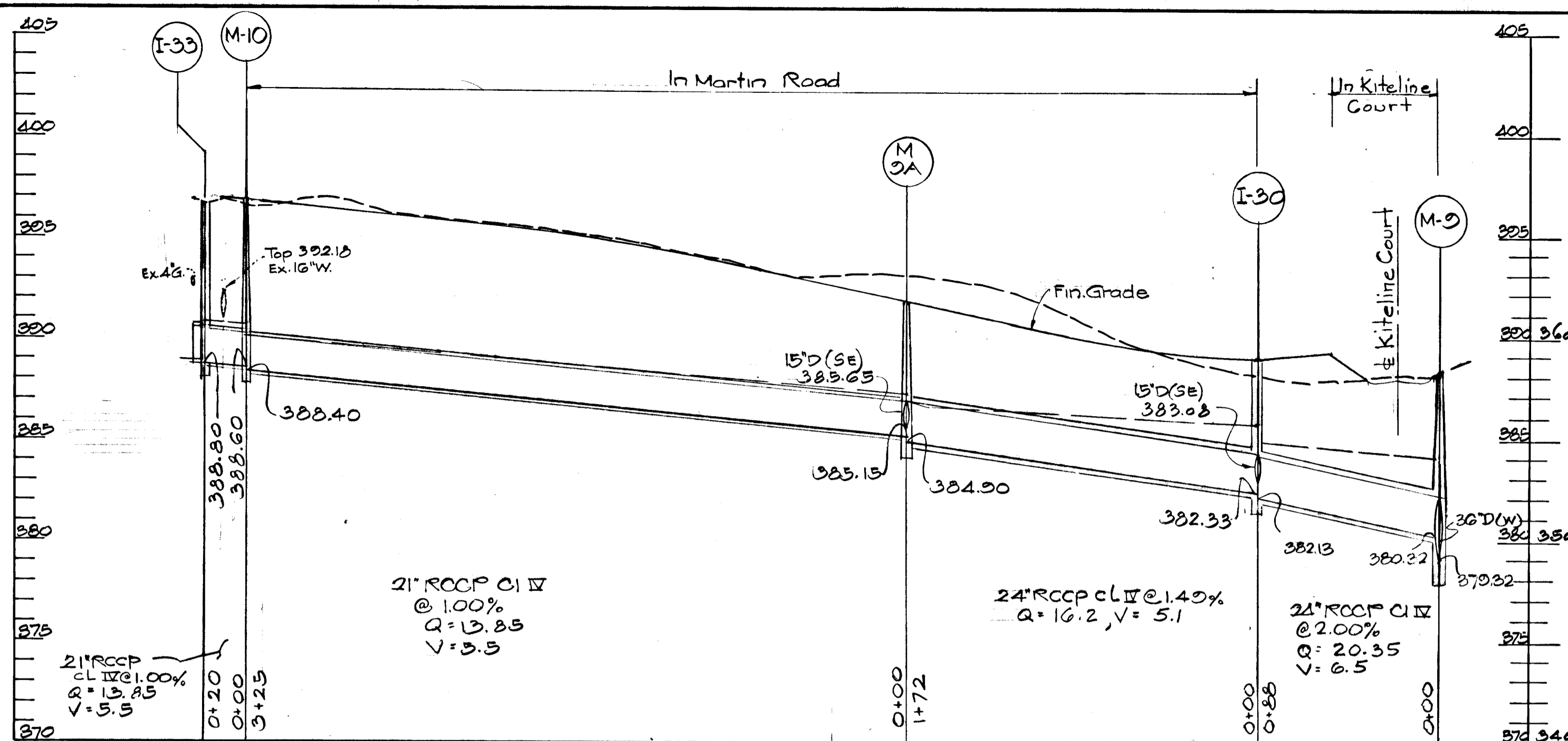
MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore Md.

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOTTED COUNTY, MARYLAND
 DATE *5/21/73*

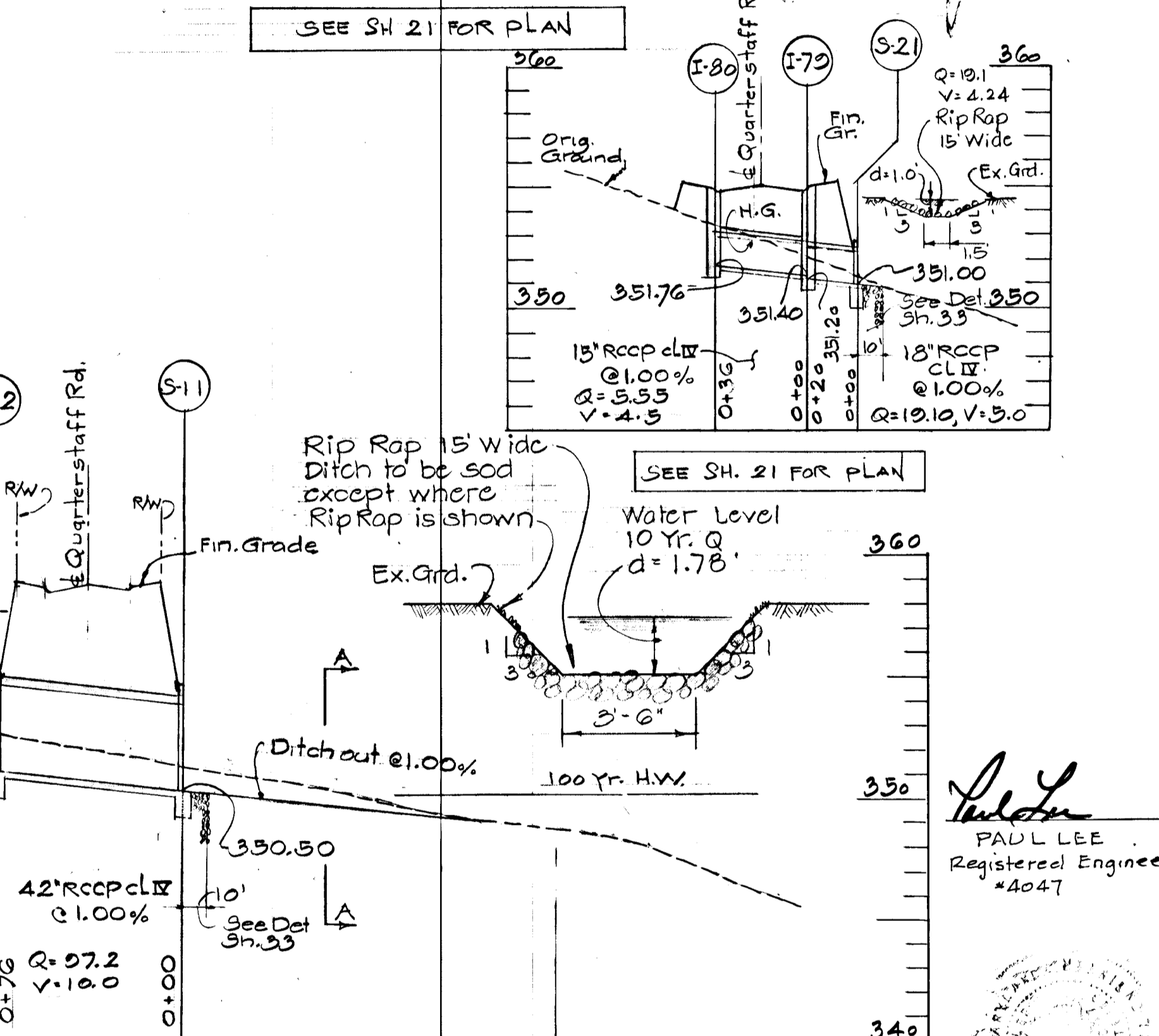
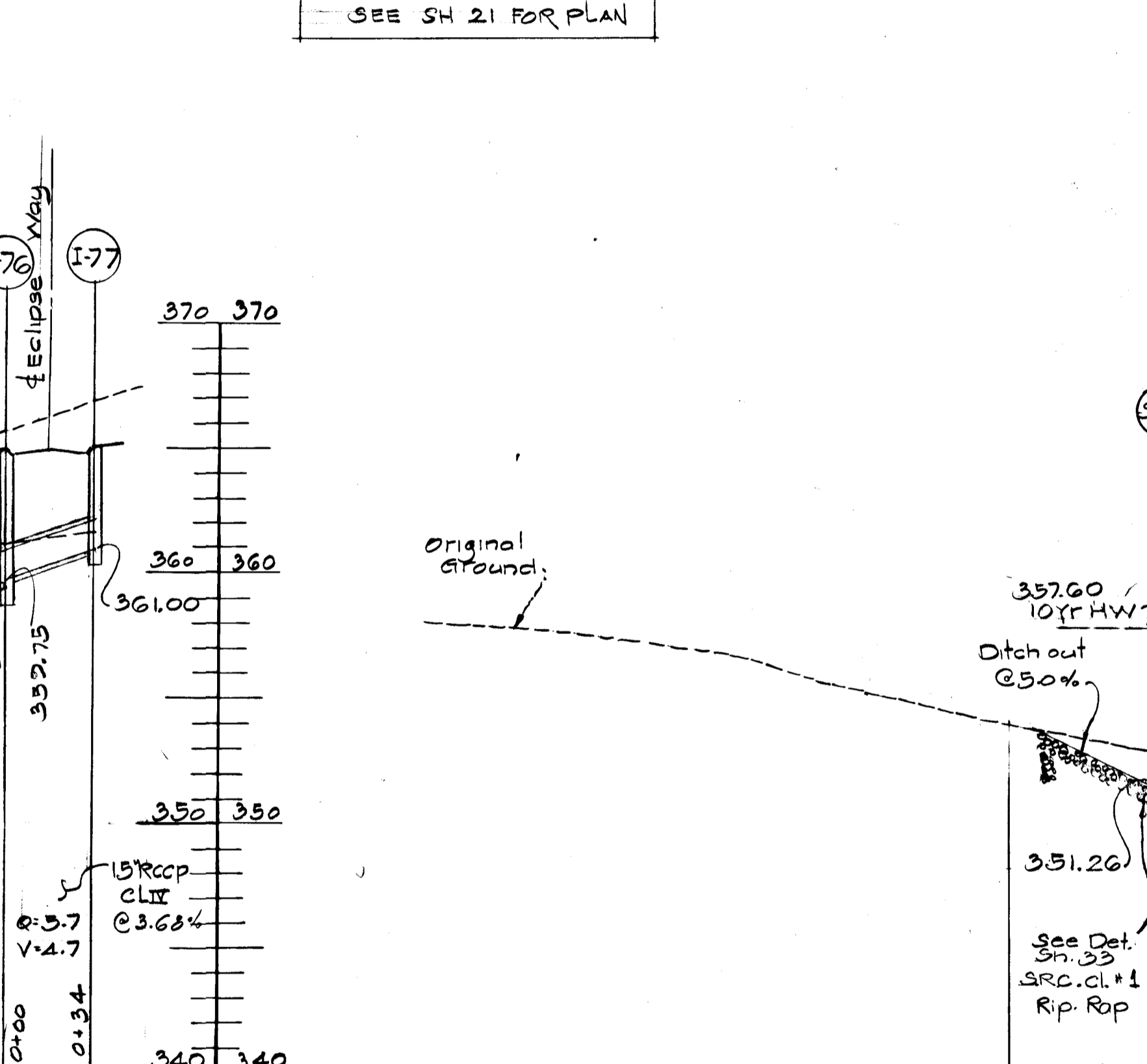
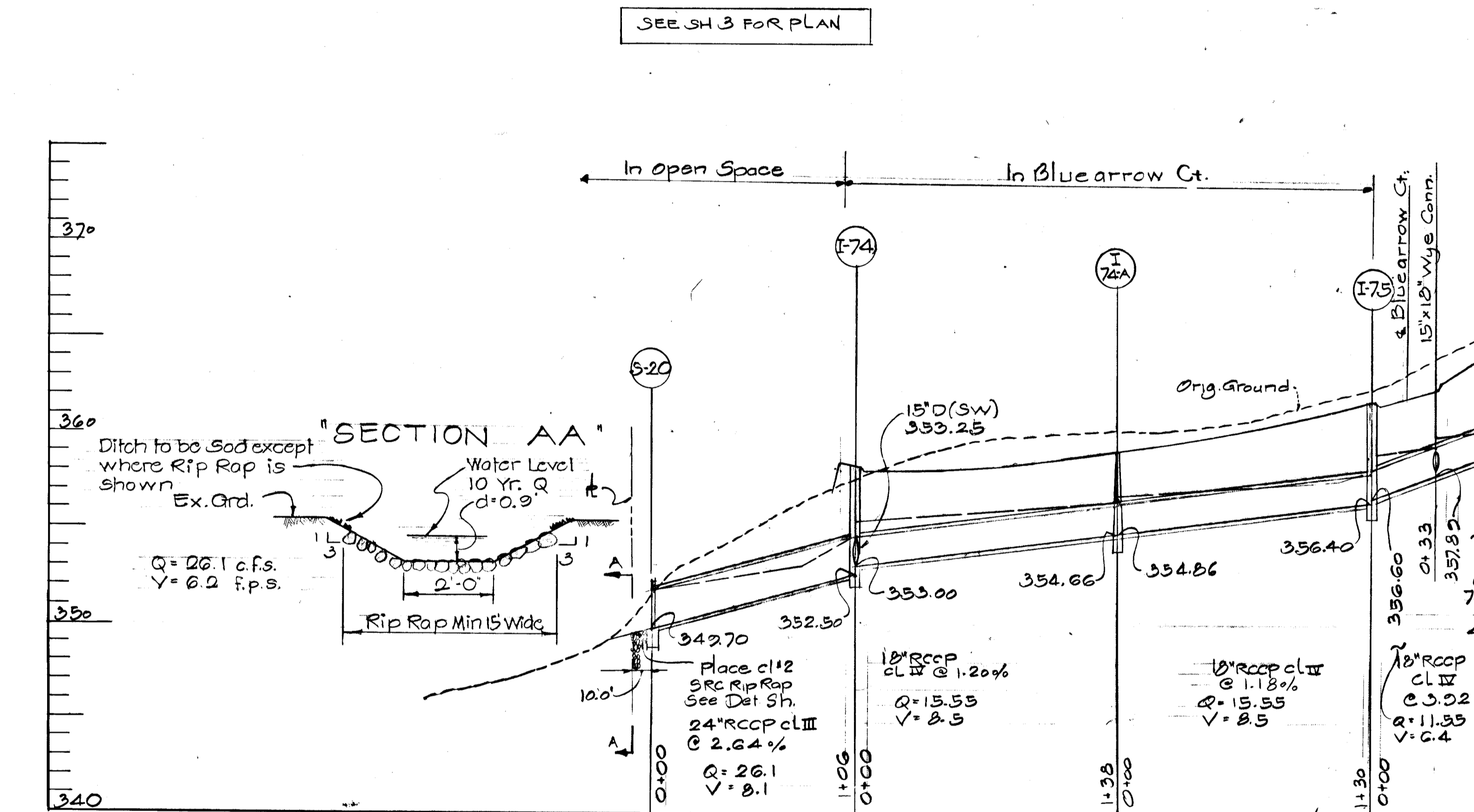
Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY, - COLUMBIA MD 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1 - AREA 2		
PROJECT TITLE STORM DRAIN PLAN SNUFFBOX TERR, RED KEEL & OUTFALL		
Des By M.J.E.	Scale: AS SHOWN	Dwg. No. 23 OF 37
Drn By WMB	Date 5-7-73	CCF No.
Chk By MCA	Approved	

Paul Lee
 PAUL LEE
 Registered Engineer
 4047

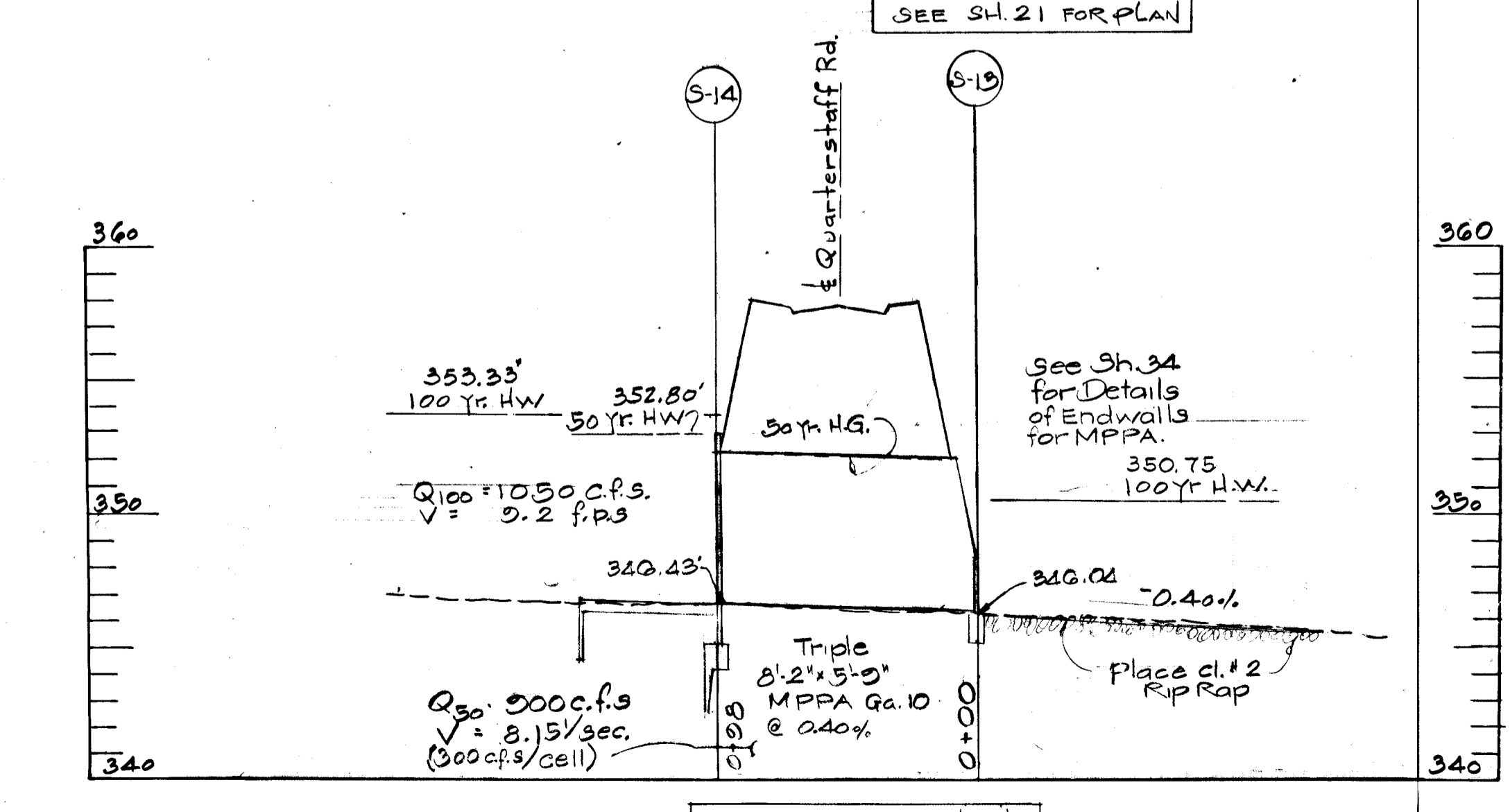
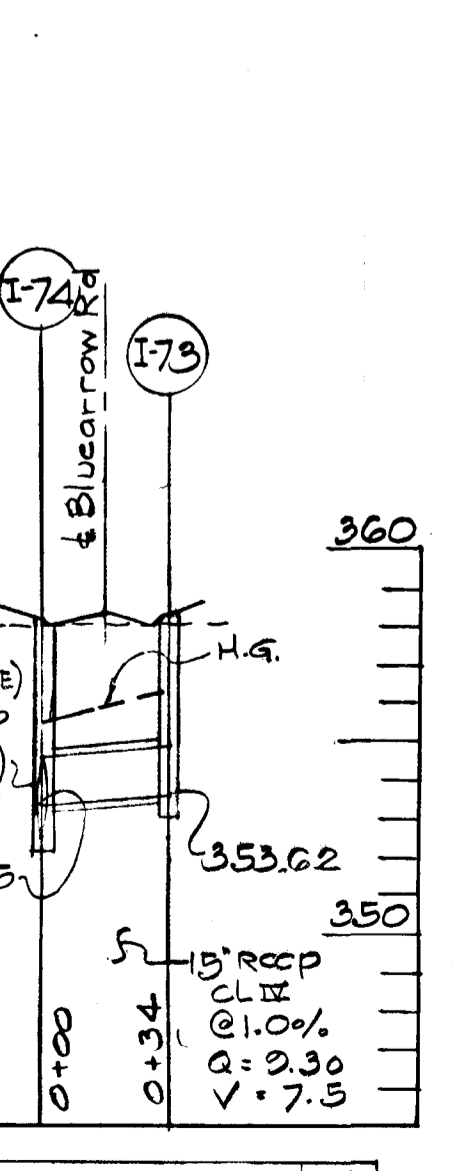
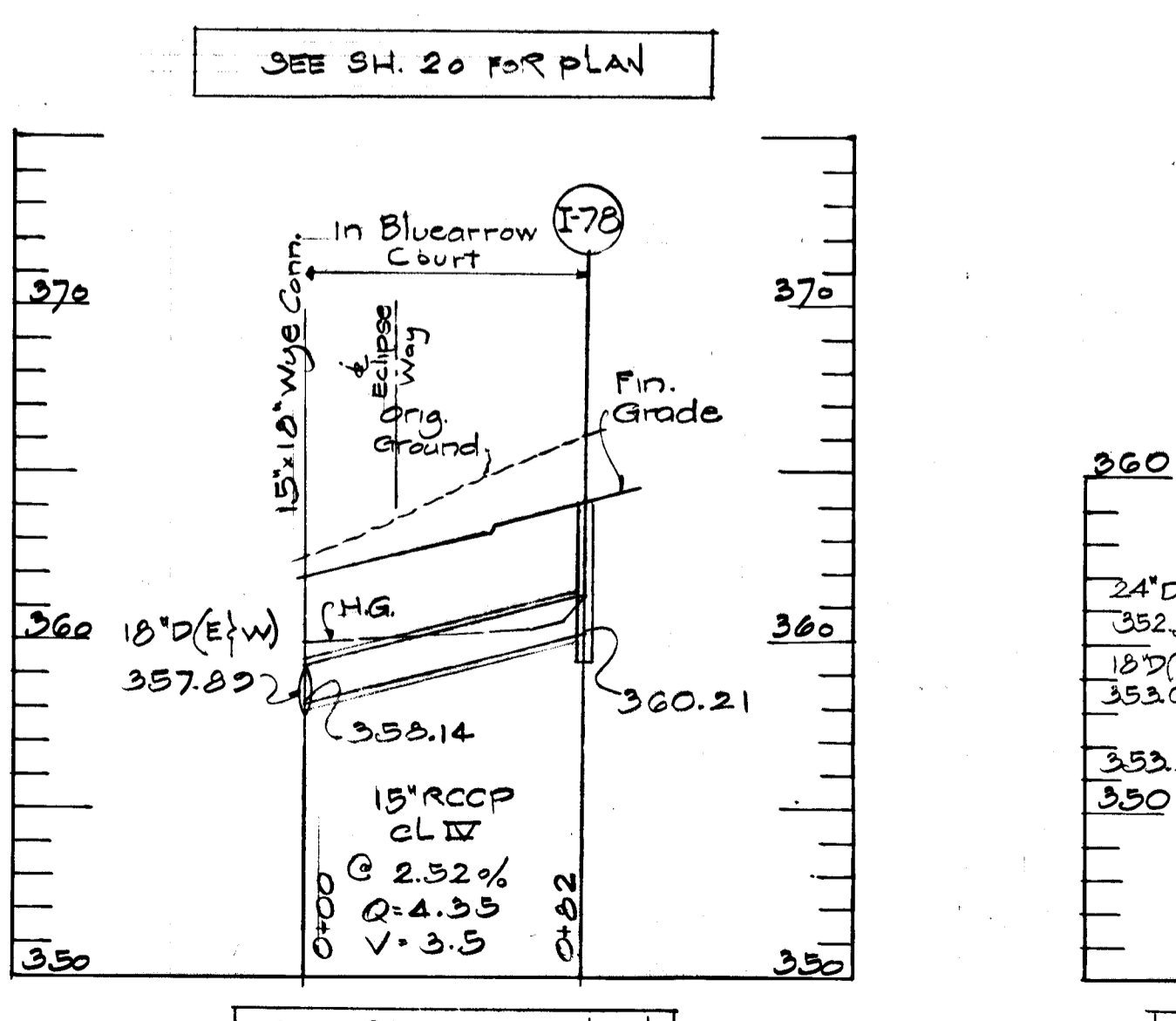
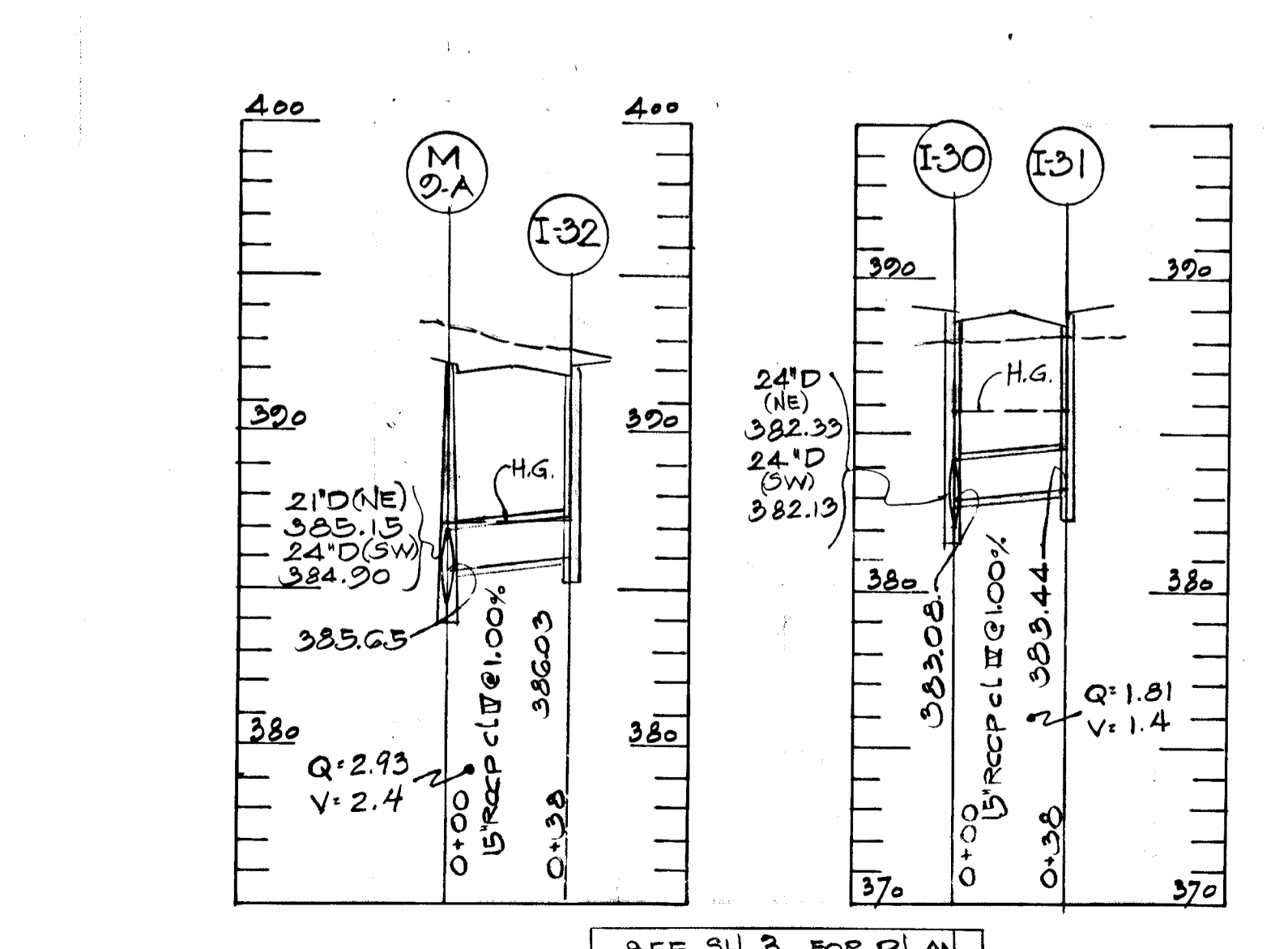
#42



APPROVED
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 5/24/73



PAUL LEE
 Registered Engineer
 #4047



MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd, Baltimore, Md

Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP
 THE ROUSE COMPANY, COLUMBIA MD 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 1 AREA 2

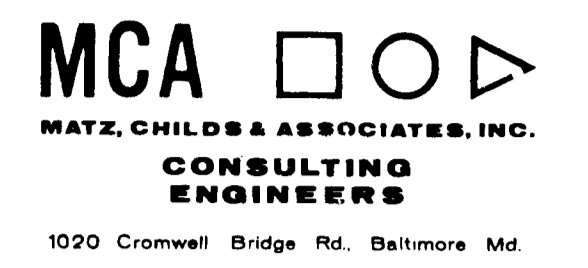
PROJECT TITLE
 STORM DRAIN PROFILES
 MARTIN RD, BLUEARROW CT, & QUARTERSTAFF RD

Des By MJE
 Drawn By WWD
 Chk By MCA

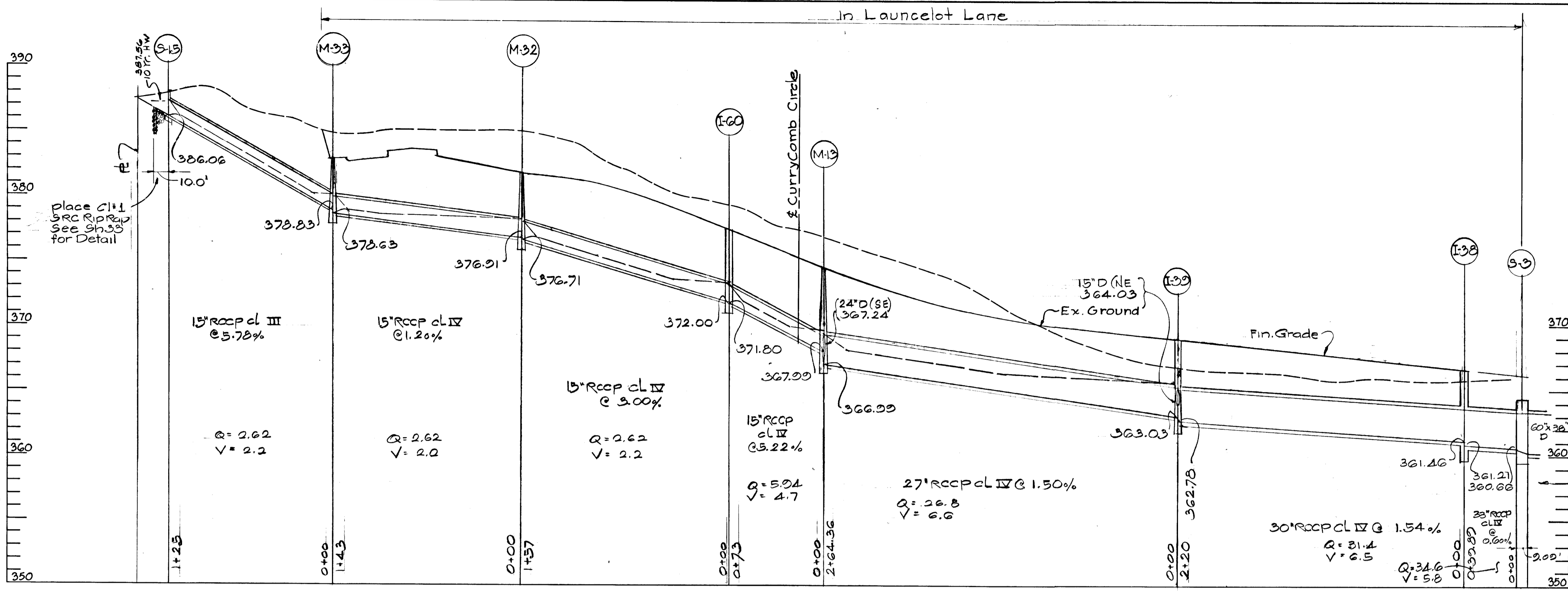
Scale as shown
 Date 5-7-73
 Approved

Dwg. No. 25 of 37
 CCF. No.

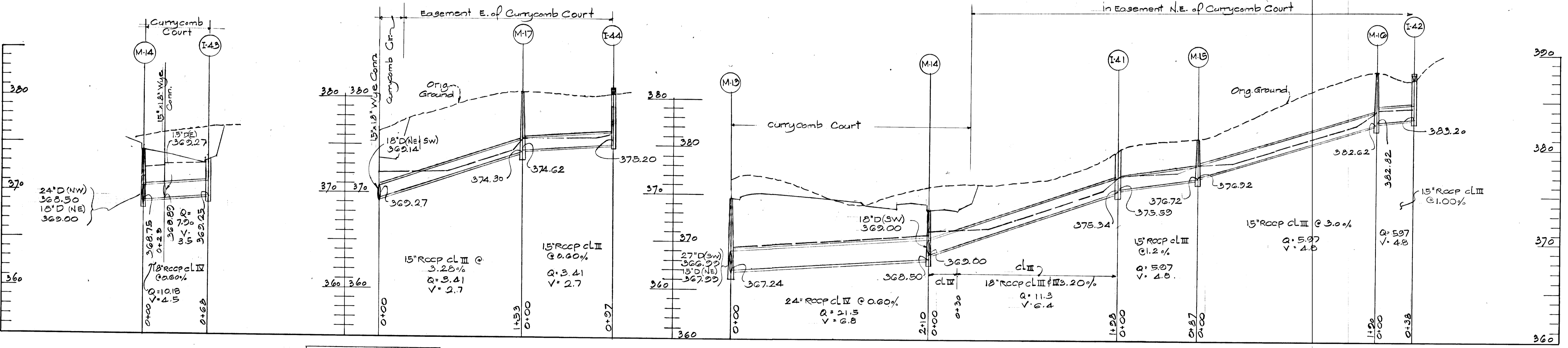
PROFILES
 Scale: 1" = 30' Horiz.
 1" = 5' Vert.



APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HILGARD COUNTY, MARYLAND
 DATE: 5/24/73
 J. Lee

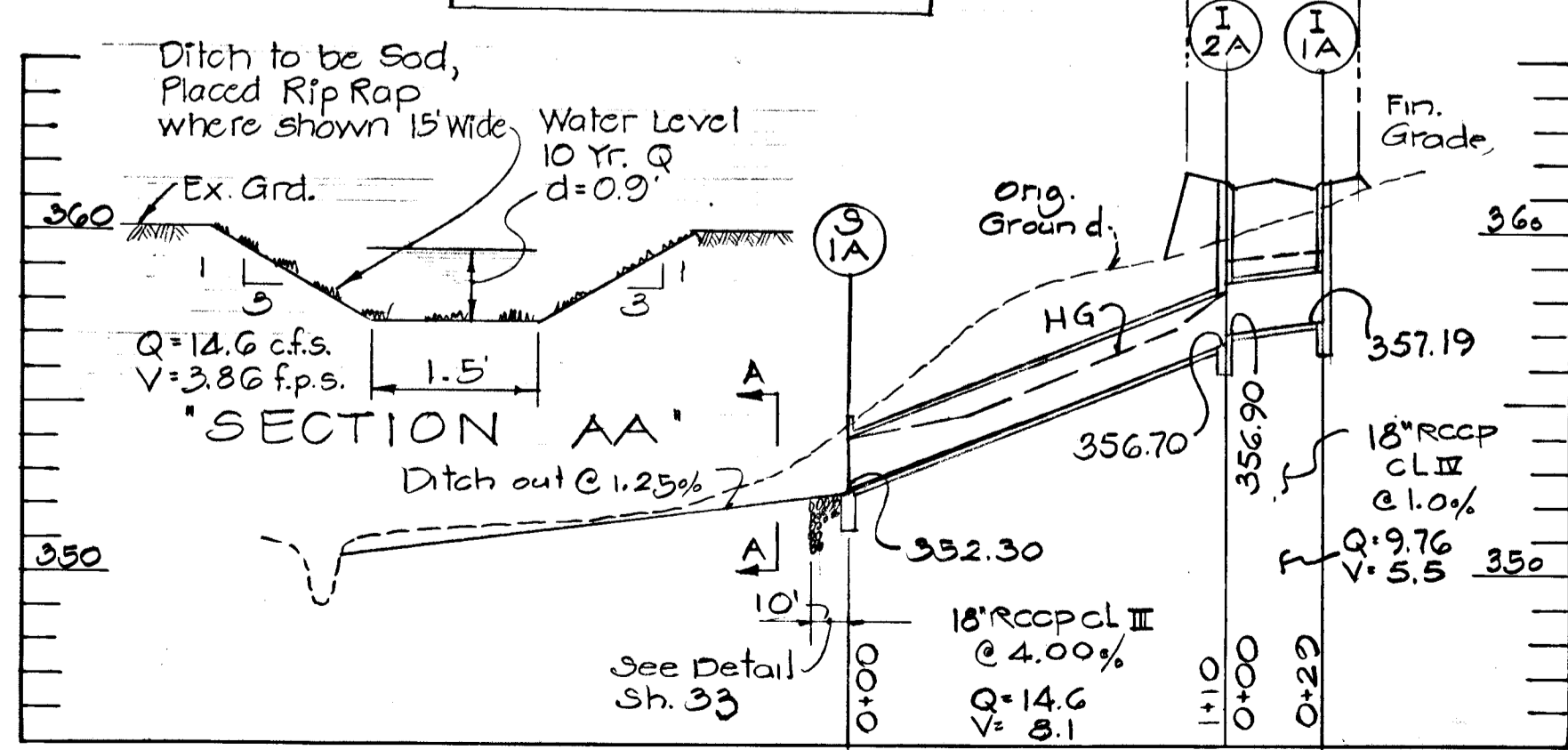


SEE SH. 11 FOR PLAN

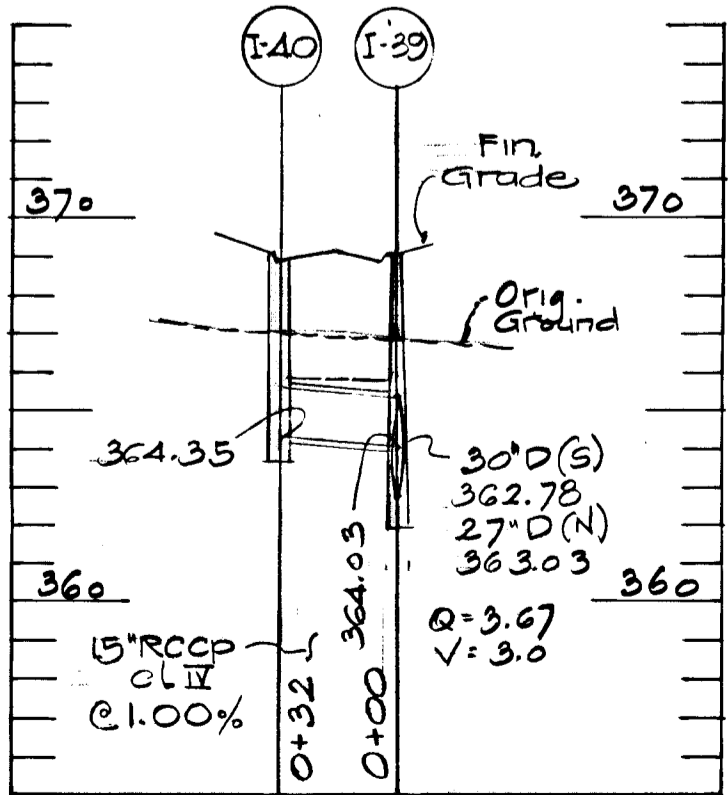


SEE SH. 22 FOR PLAN

SEE SH. 22 FOR PLAN



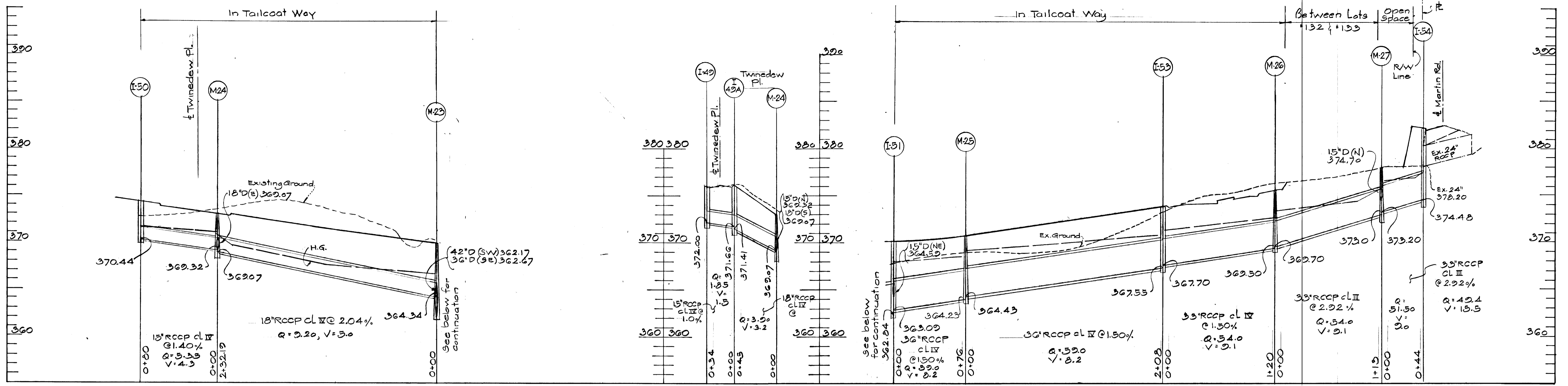
See Sh 10 for Plan



PROFILES
 Scale: 1\"/>

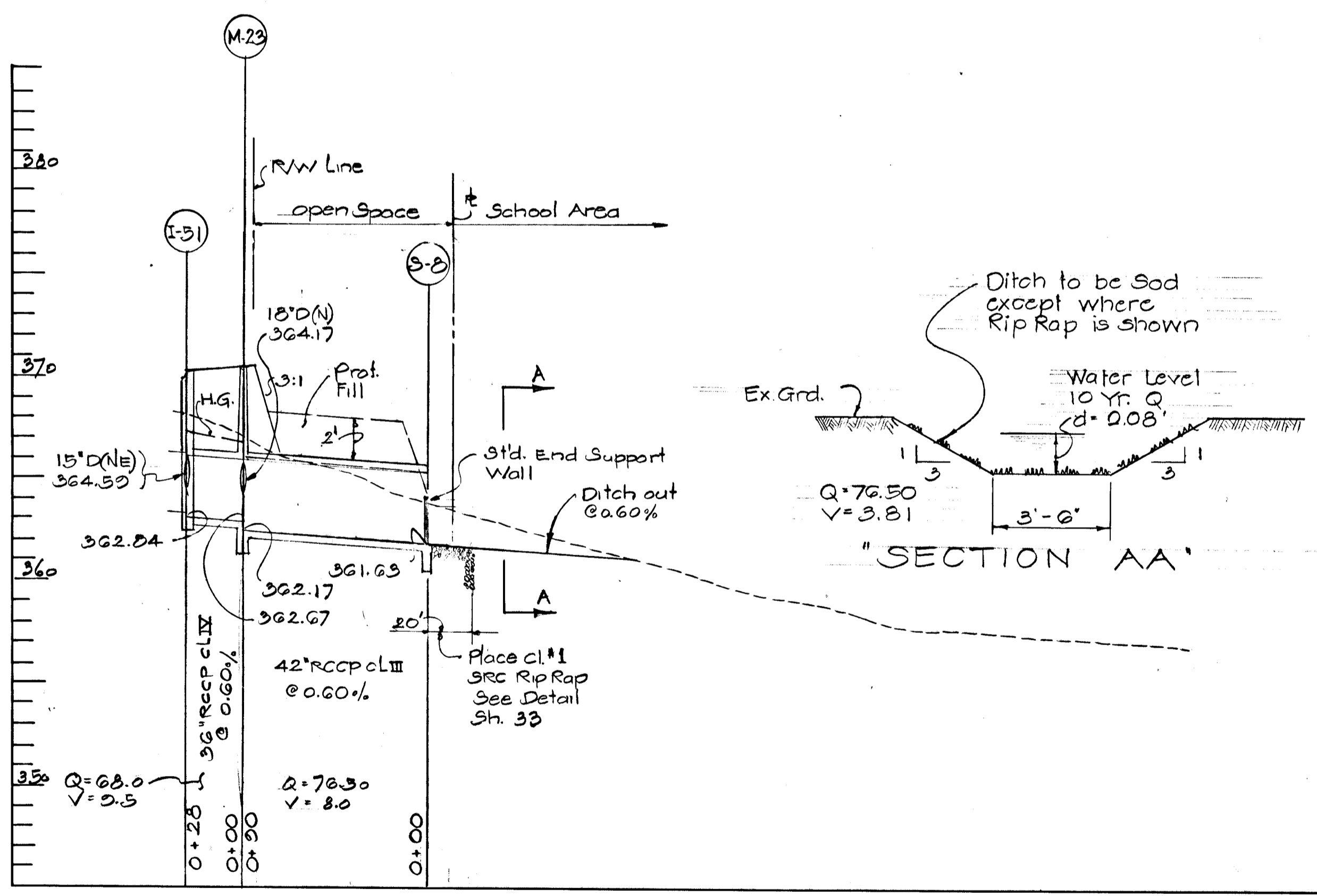
Paul Lee
 Registered Engineer
 # 4047

Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY COLUMBIA MD 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1 AREA 2		
PROJECT TITLE STORM DRAIN PROFILES		
LAUNCELOT LANE EASEMENTS N. & E. OF CURRYCOMB CT		
Des. By MJE	Scale AS SHOWN	Dwg. No. 26 of 37
Drn. By WWB	Date 5-7-73	C.C.F. No.
Chk. By MCA	Approved	

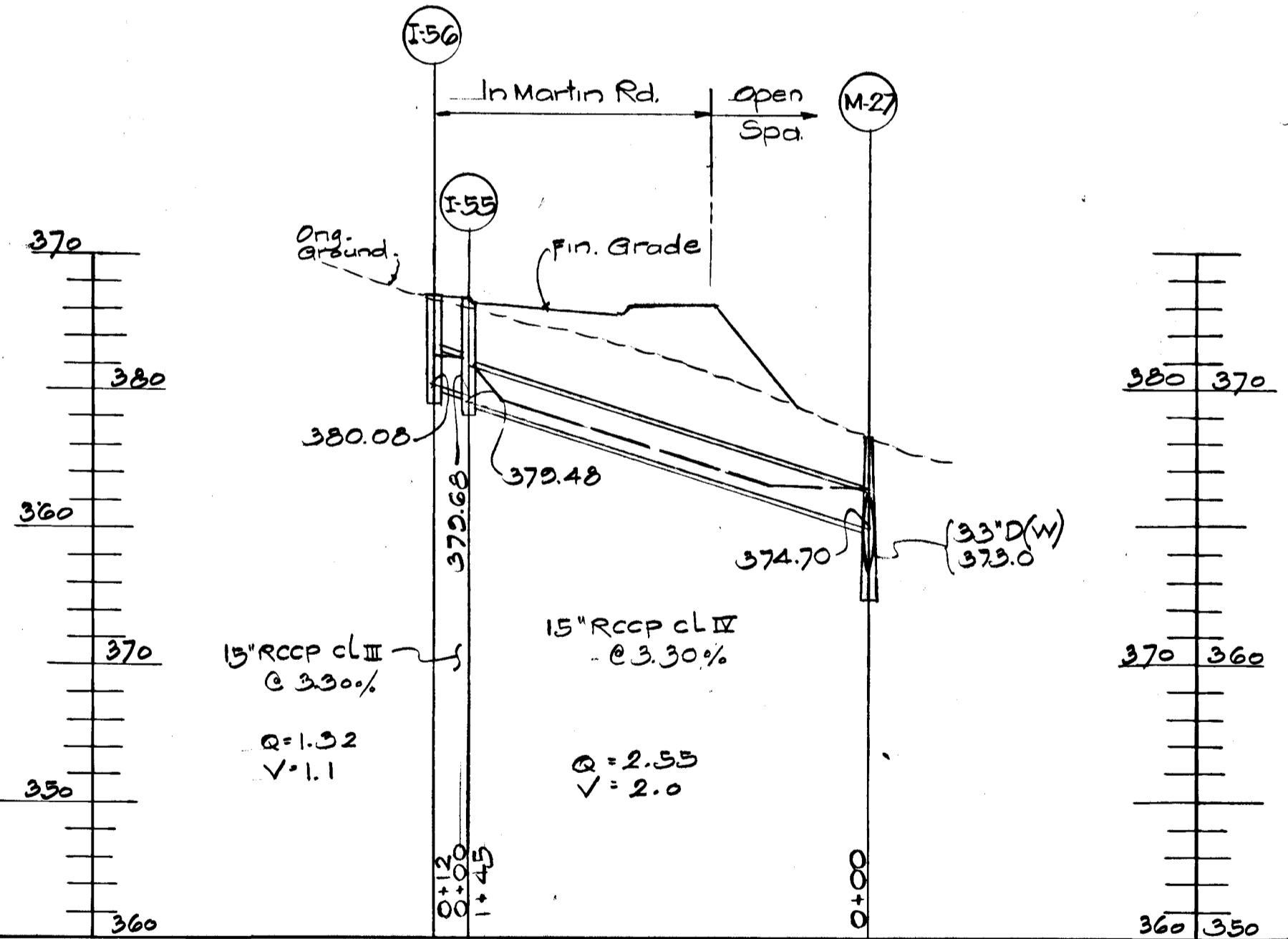


SEE SH. B FOR PLAN

SEE SH. G FOR PLAN



SEE SH. B FOR PLAN



PROFILE
Scale: Horz 1"=50'
Vert 1"=5'

SEE SH. G FOR PLAN

DEPARTMENT OF PUBLIC WORKS
W. O. Falbert
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

DATE: 5-29-73

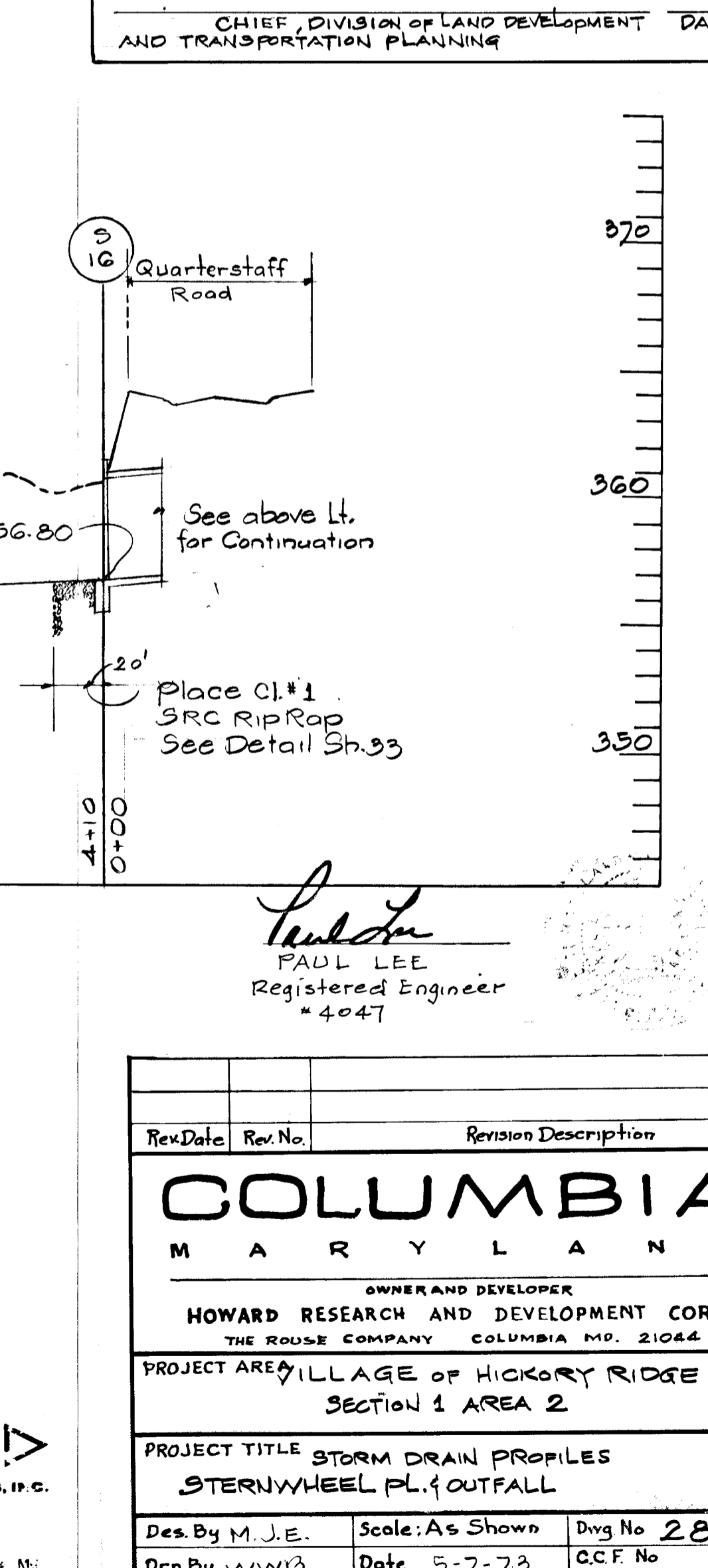
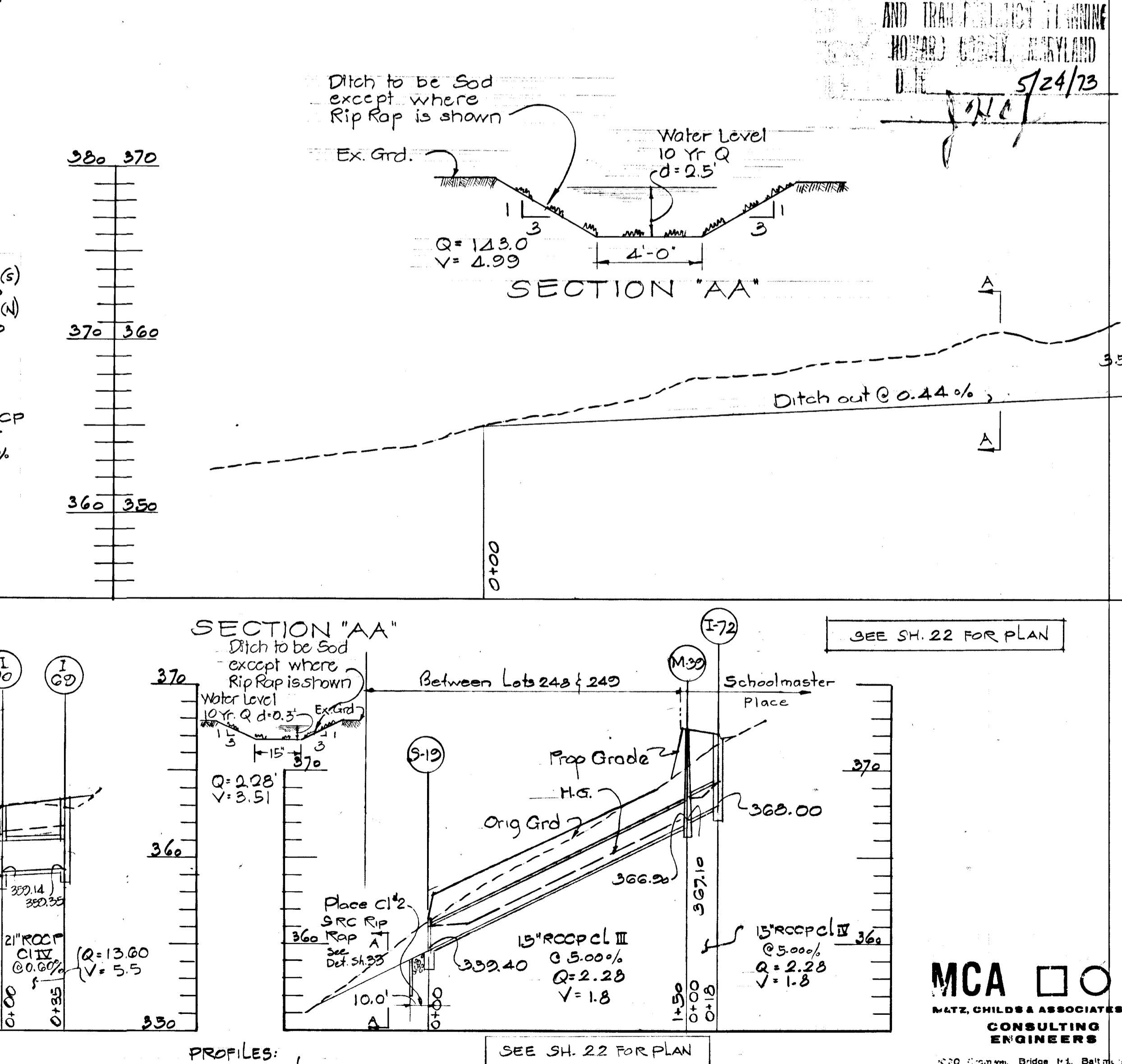
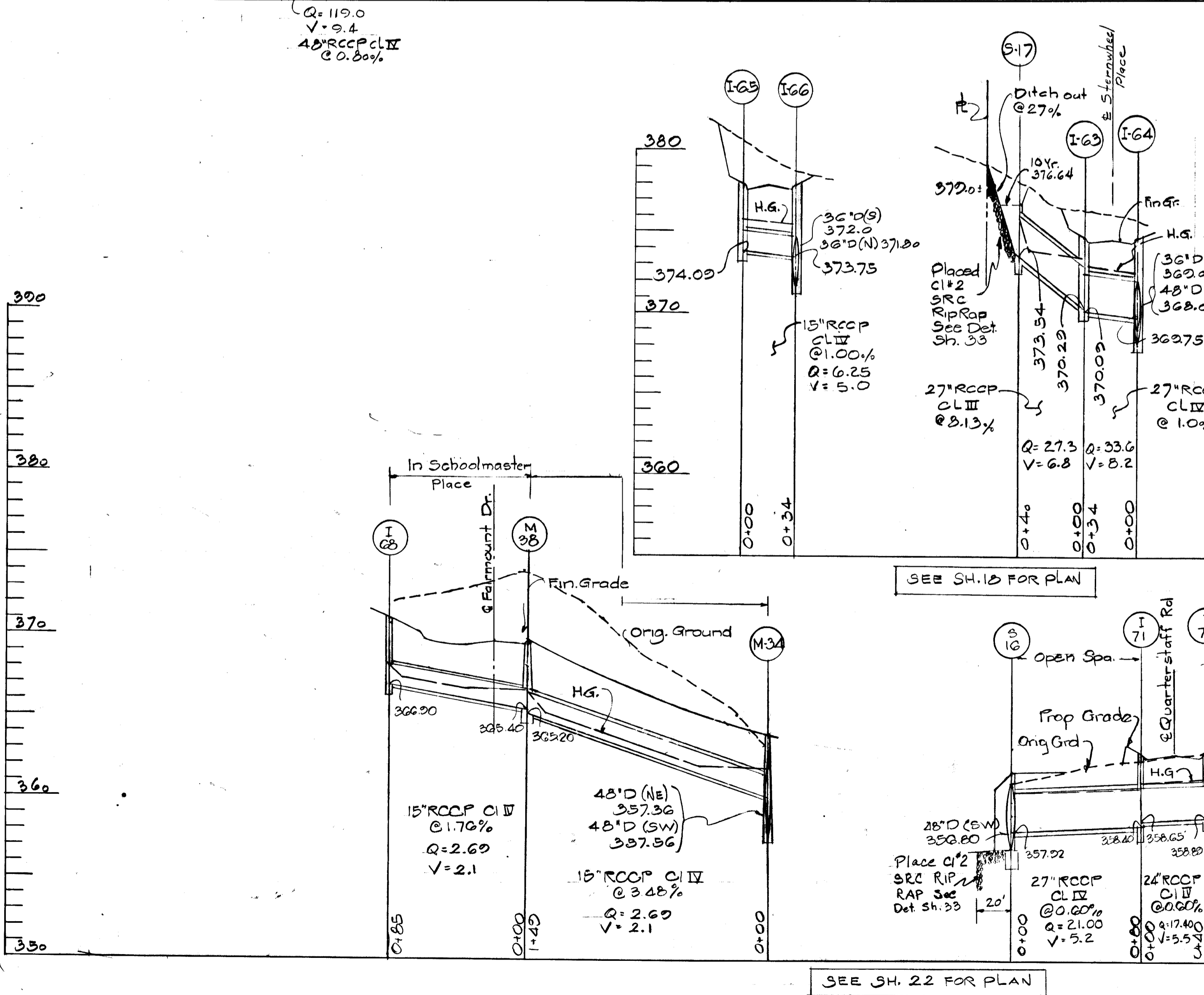
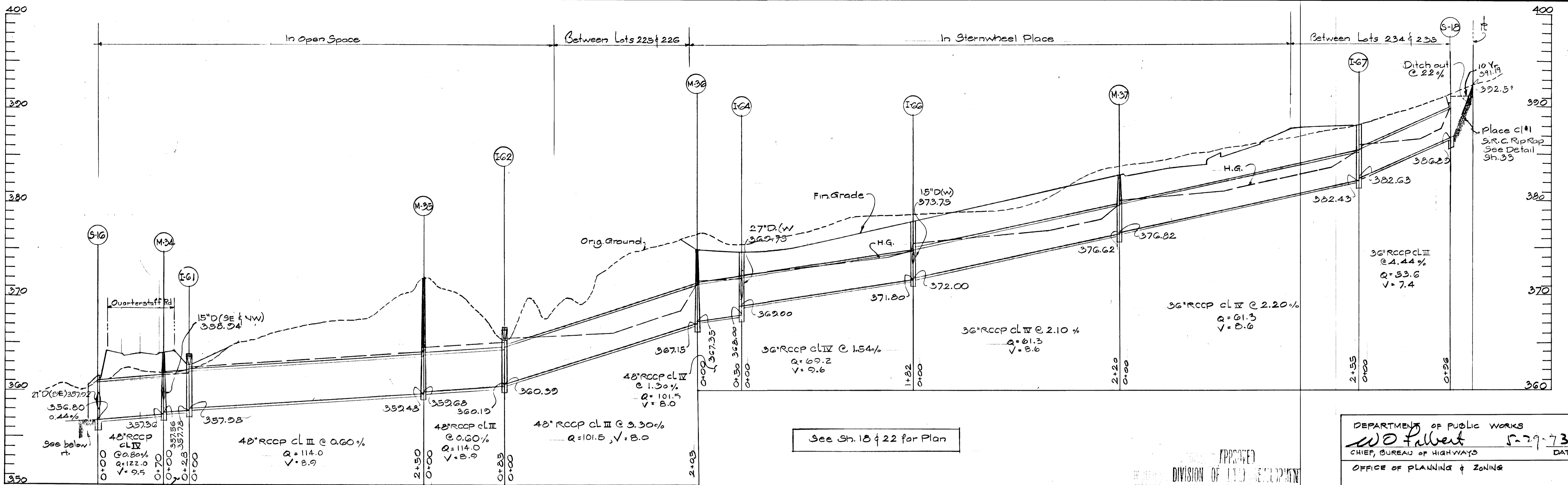
APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 DATE: 5/24/73
J. H. C.

Rev. Date	Rev. No.	Revision Description
COLUMBIA M A R Y L A N D		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY, COLUMBIA MD 21044		
PROJECT AREA: VILLAGE OF HICKORY RIDGE SECTION 1 AREA 2		
PROJECT TITLE: STORM DRAIN PROFILES TAILCOAT WAY (OUTFALL)		
Des. By: MJE	Scale: AS SHOWN	Dwg. No.: 27 of 37
Drn. By: VVV	Date: 5-7-73	C.C.F. No.
Chk. By: MCA	Approved	

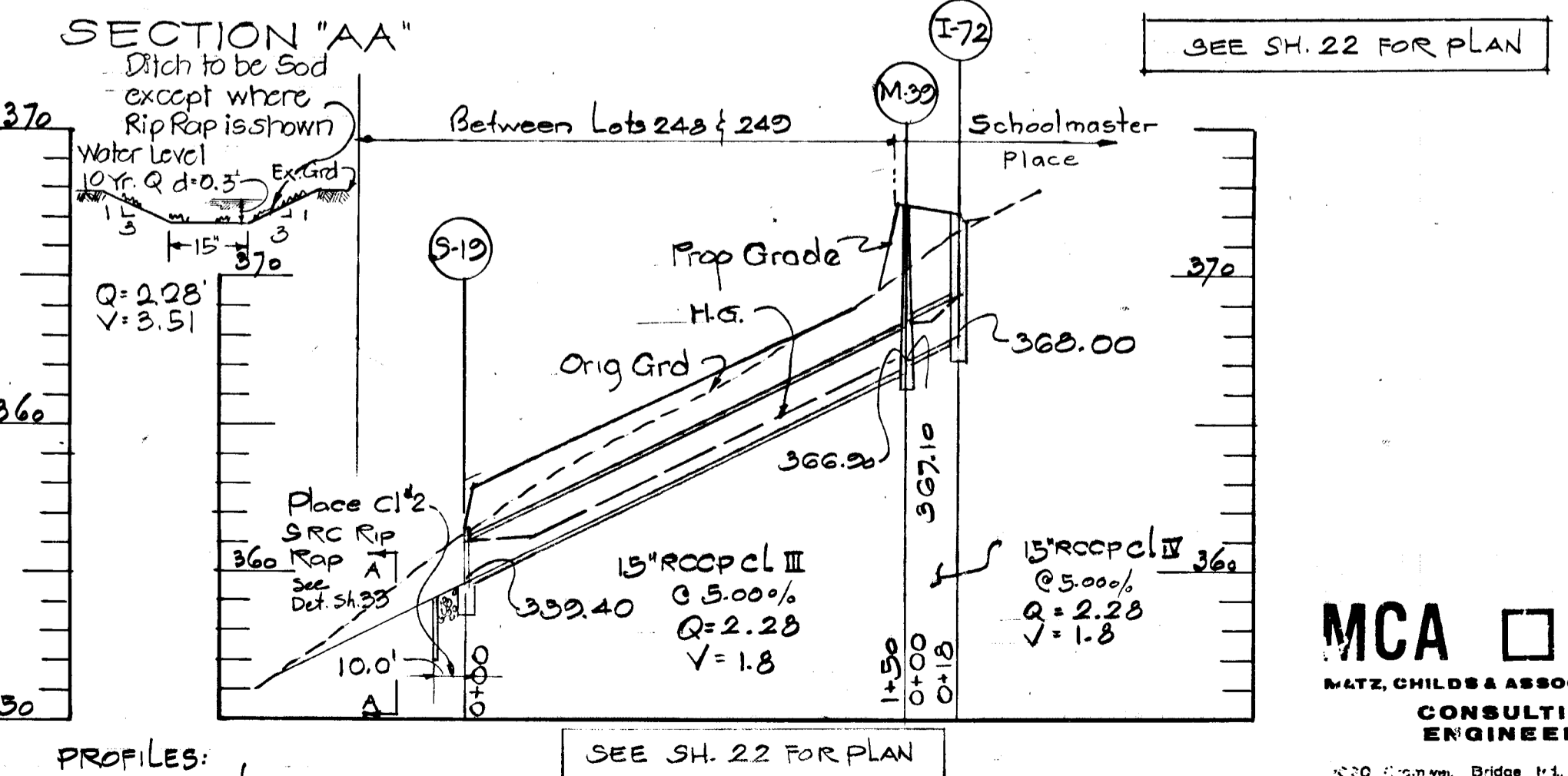
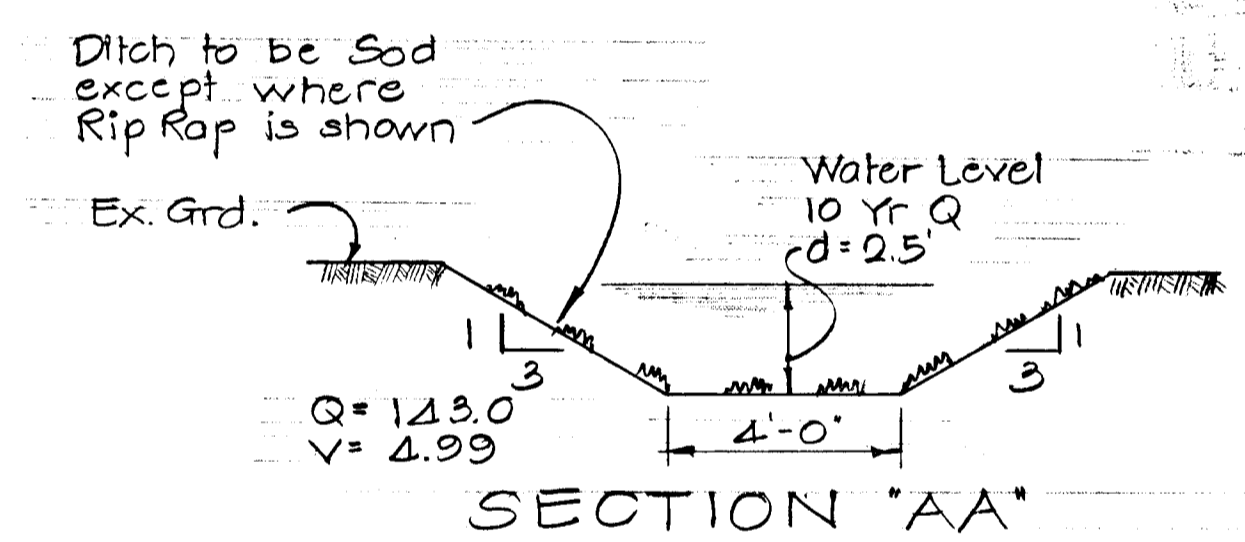
Paul Lee
 PAUL LEE
 Registered Engineer
 #4047



MCA
 TATZ, WILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 W. MARKET STREET, RICHMOND, VA 23220



See Sh. 18 & 22 for Plan



DEPARTMENT OF PUBLIC WORKS
W.D. Fulbert 5-29-73 DATE
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 5/24/73

Paul Lee
 PAUL LEE
 Registered Engineer
 #4047

Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD. 21044


PROJECT AREA: VILLAGE OF HICKORY RIDGE SECTION 1 AREA 2

PROJECT TITLE: STORM DRAIN PROFILES STERNWHEEL PL. & OUTFALL

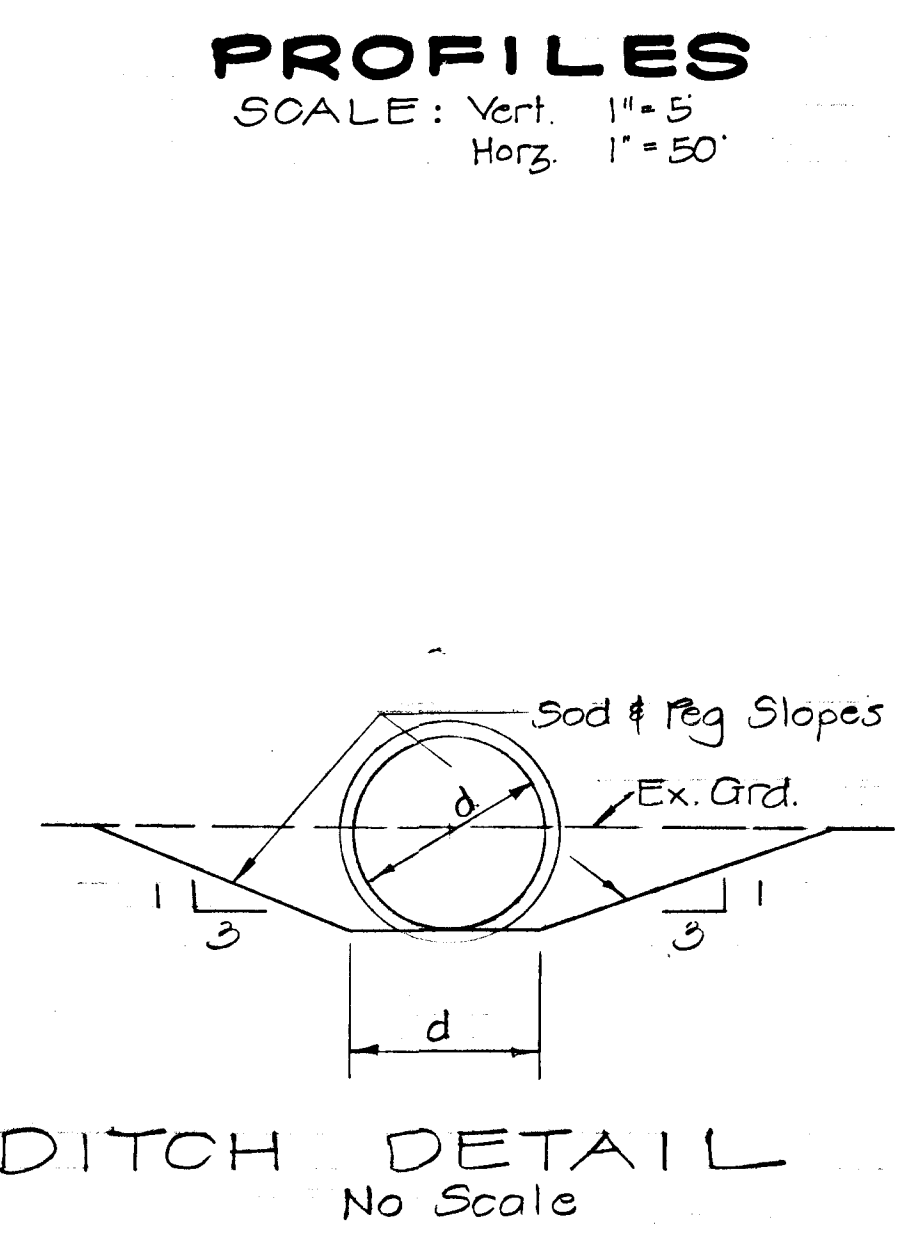
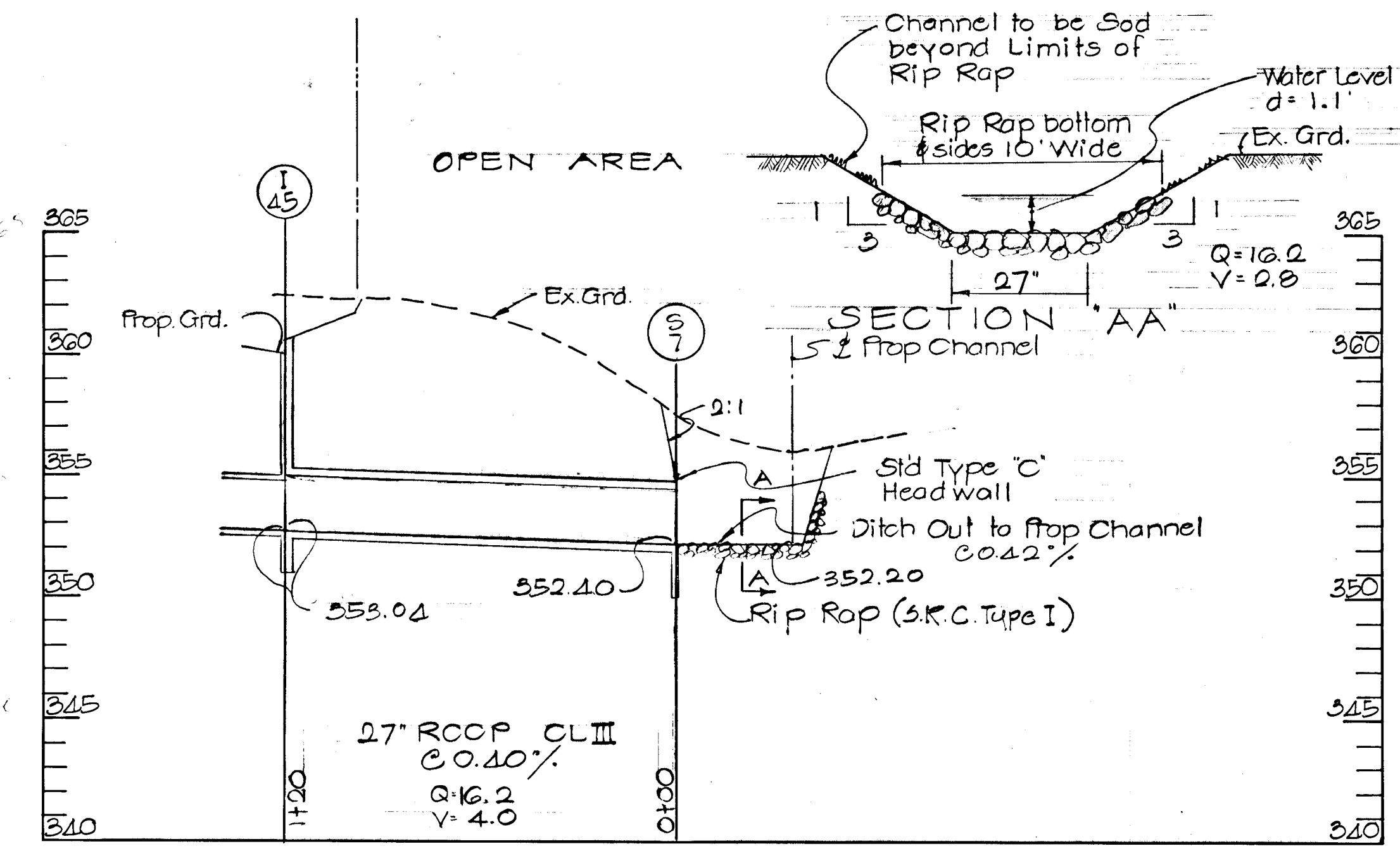
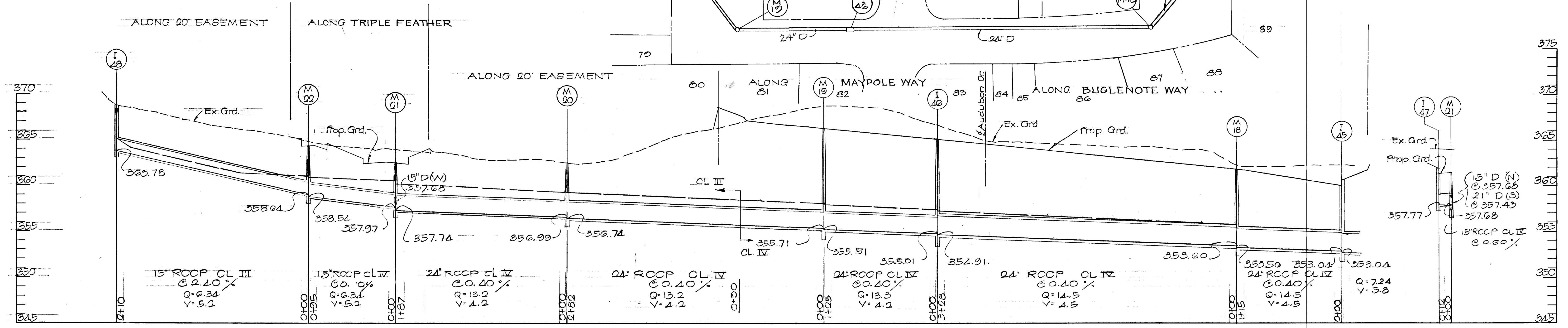
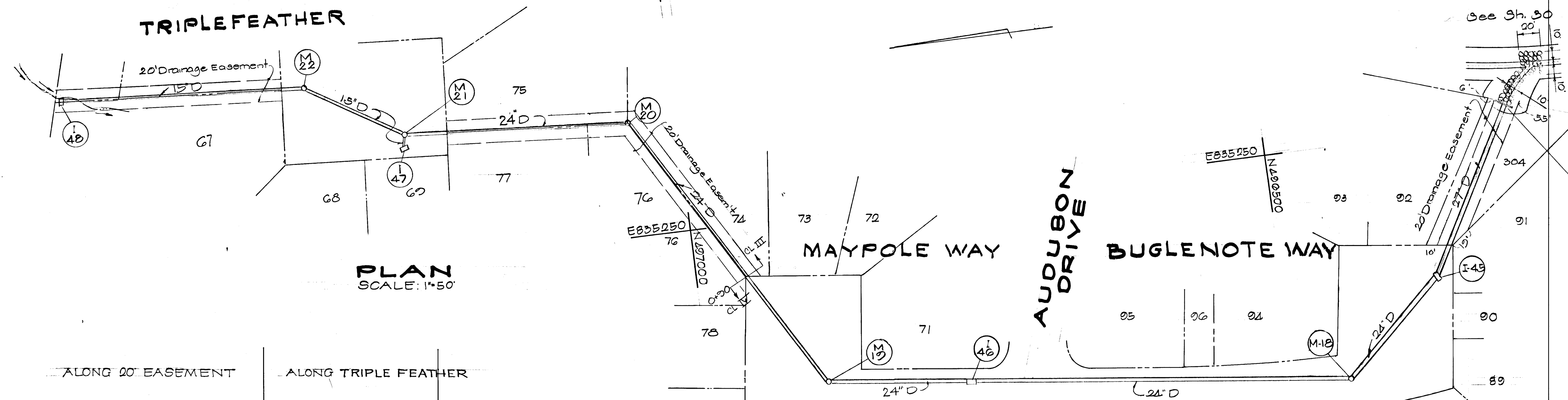
Des. By: M.J.E. Scale: As Shown Divg No: 28 of 37
 Dwn. By: W.W.B. Date: 5-7-73 C.C.F. No.
 Chk. By: MCA Approved

MCA
 MATZ, CHILDS & ASSOCIATES, P.C.
 CONSULTING ENGINEERS
 4200 Riverchase Drive, N.E., Atlanta, Ga. 30341

PROFILES:
 Scale: 1" = 5' Hor.
 1" = 5' Vert.

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd. Baltimore, Md.

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 MARYLAND COUNTY, MARYLAND
 DATE 5/24/73
J. L. Lee




General Note: This Ditch Section to be used for all outlet & inlet ditches. Ditch treatment shall be sod except where rip-rap is noted. Use polyfilter X under riprap.

* Set Top in Field

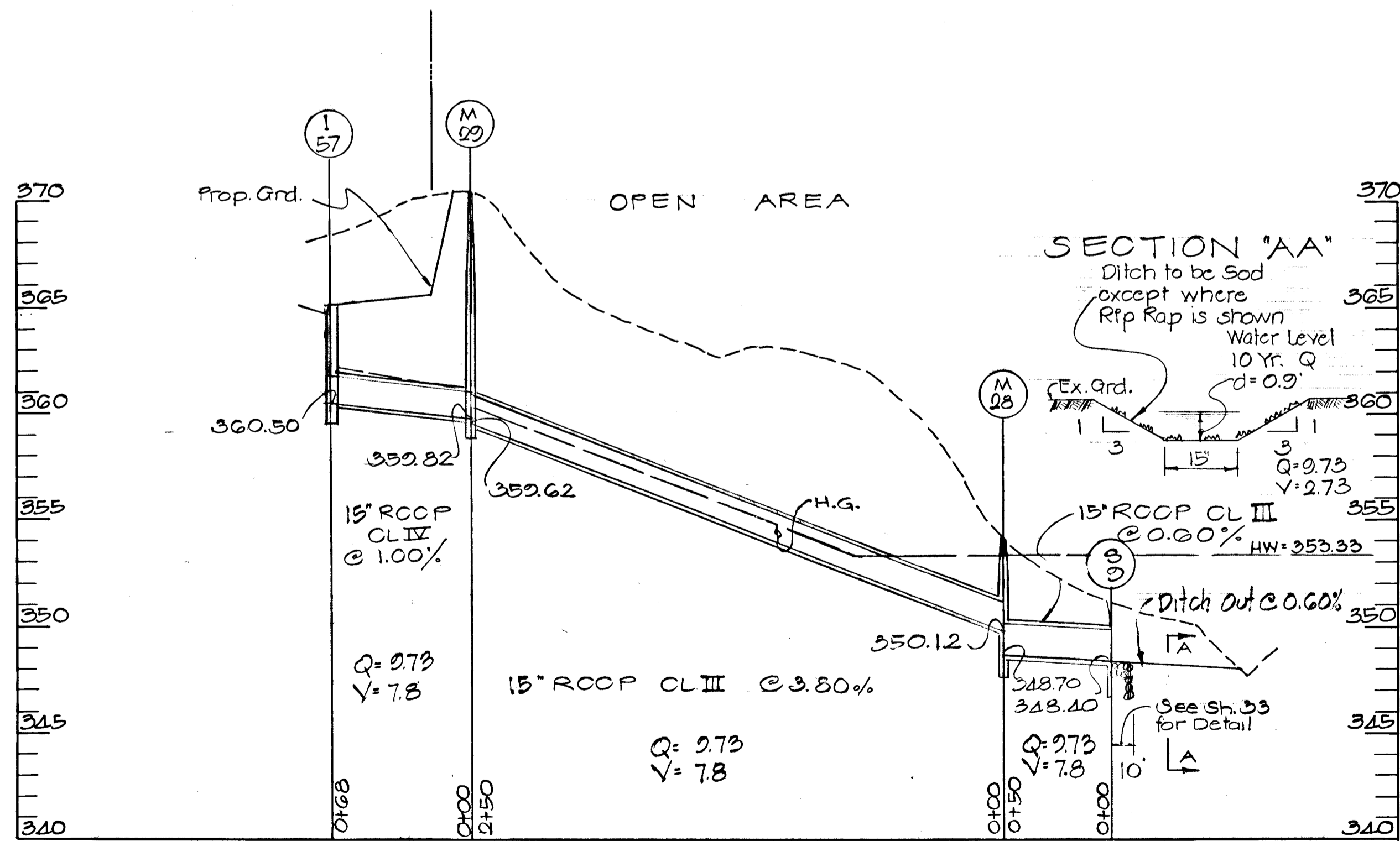
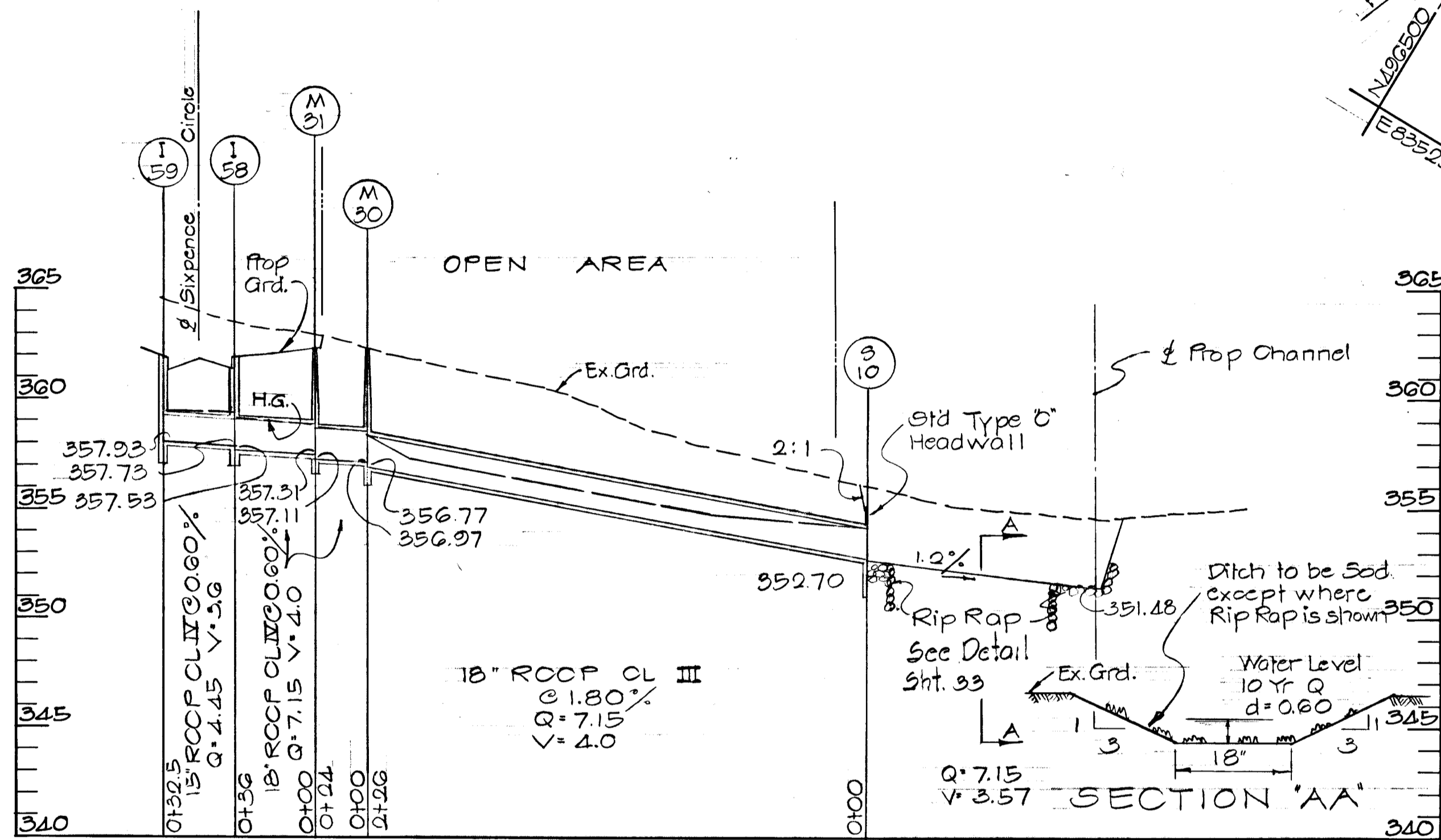
No.	Storm Drain Structure	Type	Top El.	Inlet	Schedule	Location
I-45	Std. Type 'C' Inlet	* 362.78	362.78			See Plan & Profile
M-22	Shallow Manhole	364.5	358.54	10' R ₁ x 24' Lin. Pro.		Triple Feather
I-47	Std. A-10 Inlet, W=2.5'	363.16	357.77	26' R ₁ x 11.88'		
M-21	Shallow Manhole	363.16	357.28	70' R ₁ x 11.85'		
M-20	Standard Manhole	*	358.43			See Plan & Profile
M-19	Standard Manhole	366.40	353.20	33' R ₁ x 44' Lin. Pro.		Maypole Way
I-46	Std. A-5 Inlet, W=3.0'	363.42	354.60	14.67' R ₁ x 5.32'		
M-18	Standard Manhole	361.80	353.19	20' L ₁ x 27' Lin. Pro.		Buglenote Way
I-43	Std. A-5 Inlet, W=3.0'	360.94	352.73	0.67' L ₁ x 8.5' Lin. Pro.		
S-7	Std. Type 'C' Endwall	353.02	352.03			See Plan & Profile

Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY, COLUMBIA, MD. 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1 AREA 2		
PROJECT TITLE STORM DRAINS TRIPLEFEATHER EASEMENT SOUTH OF BUGLENOTE & MAYPOLE WAY & OUTFALL		
Des. By M. J. E.	Scale As Shown	Dwg. No. 200
Drn. By M. J. E.	Date 5-7-73	C.C.F. No.
Chk. By G. L.	Approved	

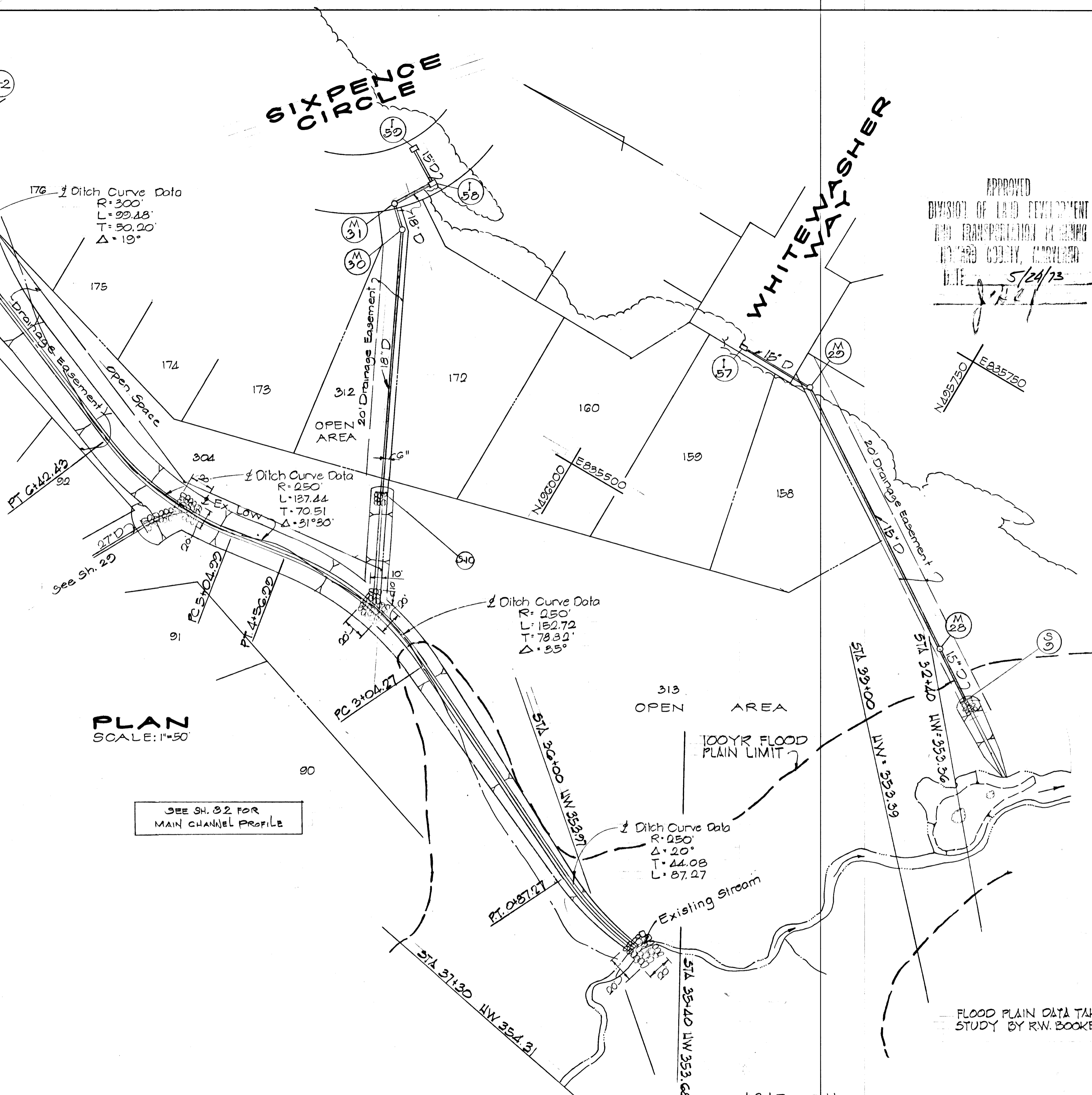
Paul Lee
 PAUL LEE
 Registered Engineer
 #4047

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore Md

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 5/24/73
J. H. E.



PROFILES:
 Scale: 1" = 30' Hor.
 1" = 5' Vert.

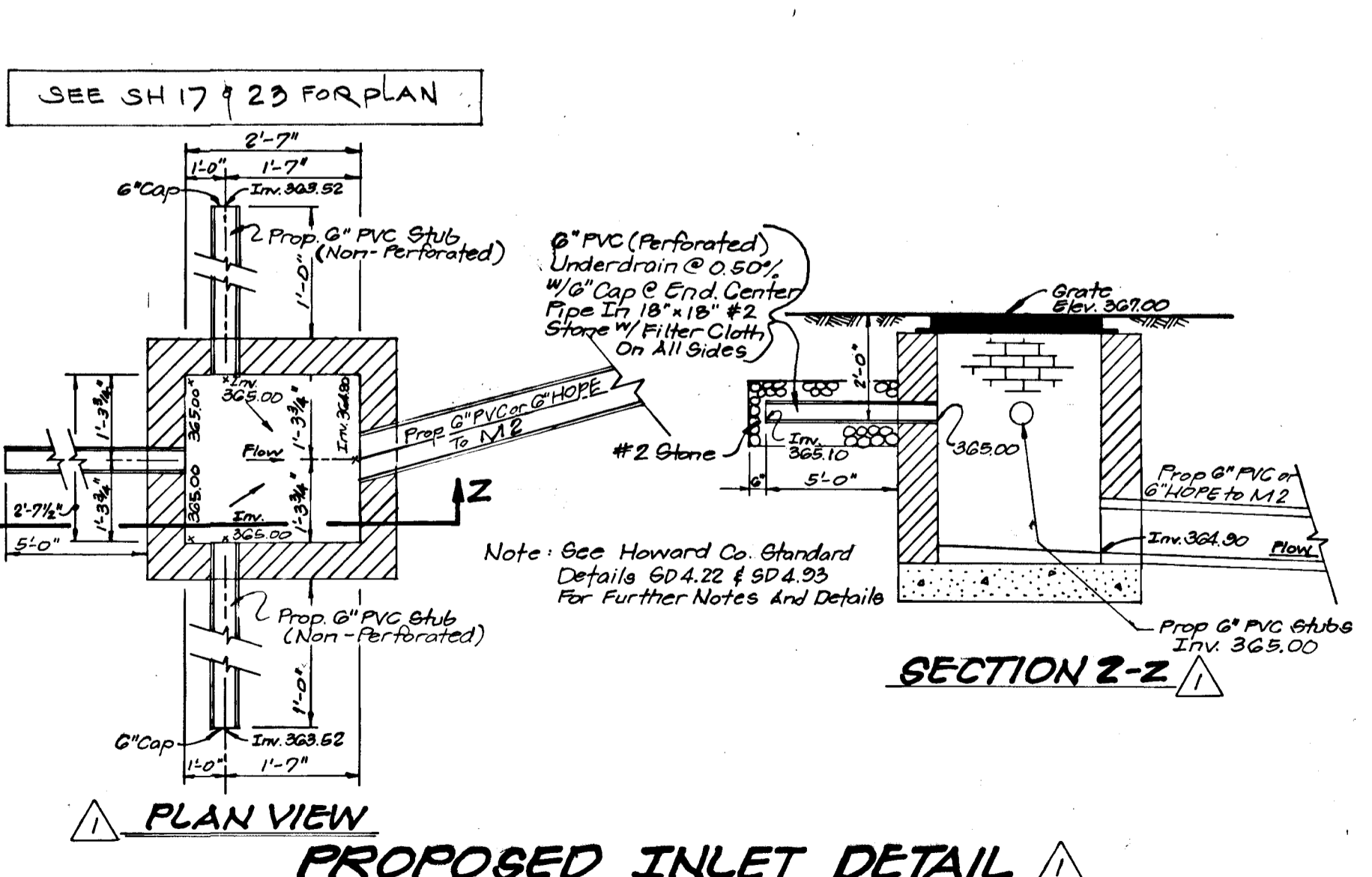
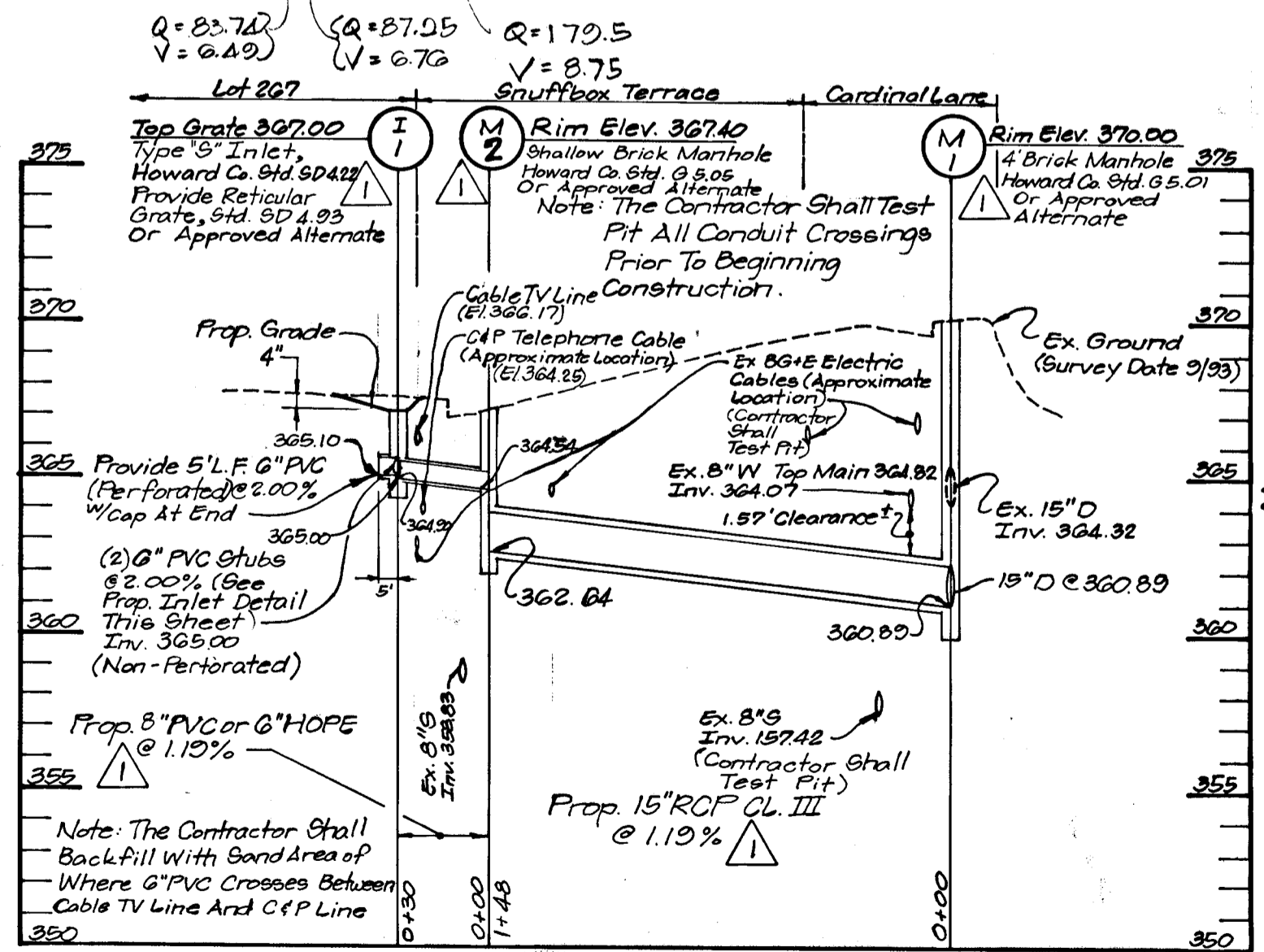
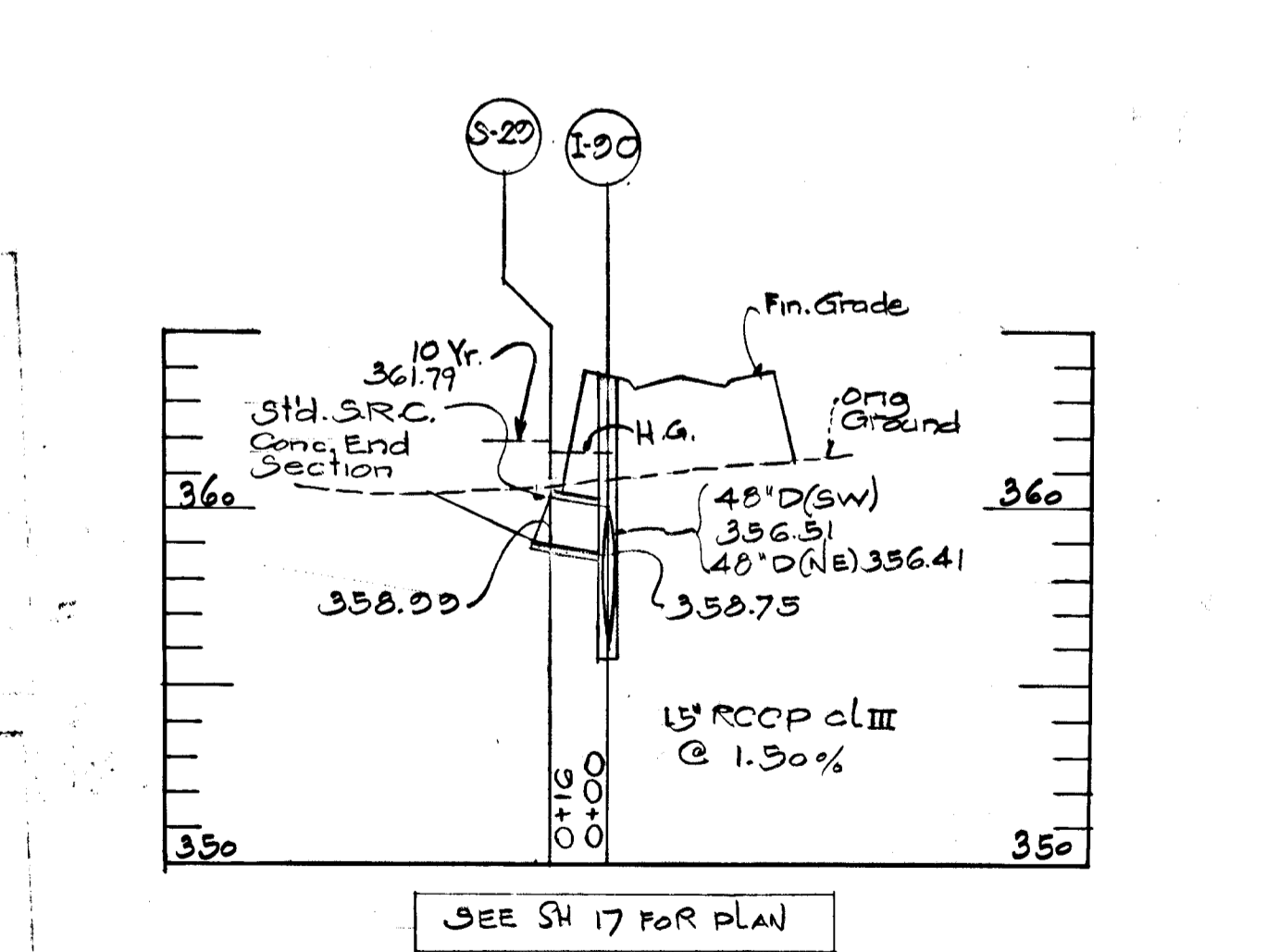
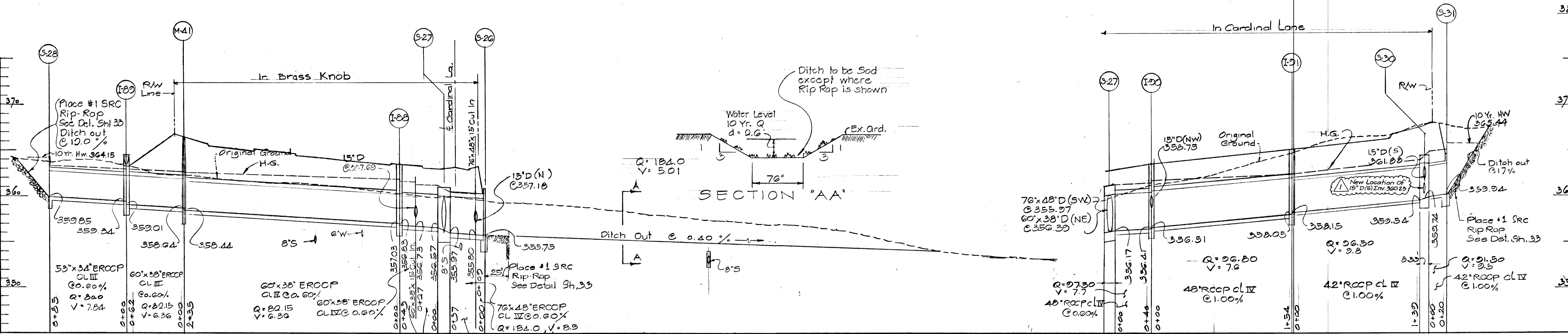
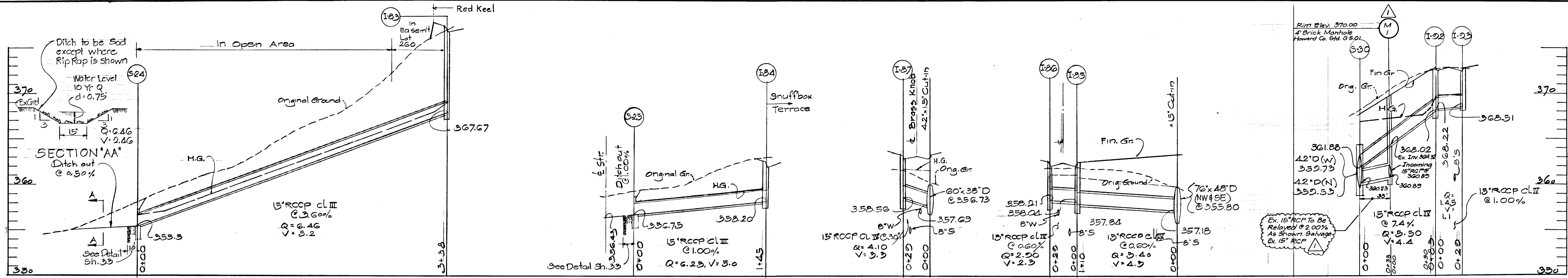


FLOOD PLAIN DATA TAKEN FROM STUDY BY R.W. BOOKER & ASSOC.

No.	Type	Top El.	In. El.	Location
I-27	Std A-5 Inlet W: 2.5	362.10	357.93	14.67' Lt. 31.57.50 Sixpence Cir.
I-58	Std A-5 Inlet W: 2.5	362.10	357.93	14.67' Rt. 31.57.50 " "
M-21	Shallow Manhole	362.00	357.11	20' Rt. 31.06 Sixpence Cir.
M-20	Standard Manhole	*	356.77	See Plan & Profile
910	Std. Type 'C' Endwall	354.95	352.78	See Plan & Profile
I-57	Std A-5 Inlet W: 2.5	364.69	358.54	0.67' Lt. 1.34 Lin. Pro. Whitewasher
M-22	Standard MH	*	362.64	See Plan & Profile
M-28	Shallow Manhole	*	368.0	See Plan & Profile
92	Std. Type 'C' Endwall	350.10	348.40	See Plan & Profile

Paul Lee
 PAUL LEE
 Registered Engineer
 #4047

Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY, COLUMBIA MD. 21044		
PROJECT AREA: VILLAGE OF HICKORY RIDGE SECTION 1 AREA 2		
PROJECT TITLE: STORM DRAIN PLAN & PROFILE AUDUBON DRIVE, SIXPENCE CIRCLE & WHITEWASHER WAY OUTFALLS		
Des. By M.J.E.	Scale A8 Shown	Dwg. No. 30 of 37
Drw. By M.J.E.	Date 5-7-73	CCF No.
Chk. By G.L.	Approved	



APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 5/24/93
 J. Lee

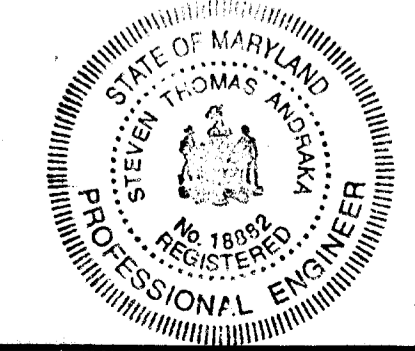
DEPARTMENT OF PUBLIC WORKS
 W. D. Filled 5-24-93
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

MCA
 MTC, CHILD & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Crownwell Bridge Rd., Baltimore, Md.

Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD 21044
 PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1 - AREA 2
 PROJECT TITLE STORM DRAIN PROFILES BRASS KNOB, CARDINAL LA. OUTFALL
 Des. By MJE Scale: AS Shown Dwg No. 3 of 3
 Dra. By VVV Date: 5-7-93 C.C.F. No.
 Chk. By MCA Approved

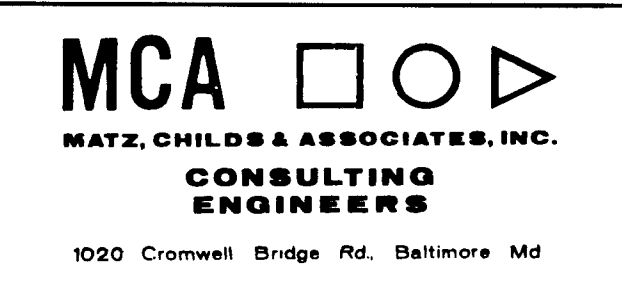
dfi CONSULTING ENGINEERS, SURVEYORS AND LAND PLANNERS
 804 BALTIMORE / ANAPOLIS BLVD.
 P.O. BOX 964
 SEVERNA PARK, MD 21146
 PHONE (301) 547-2727



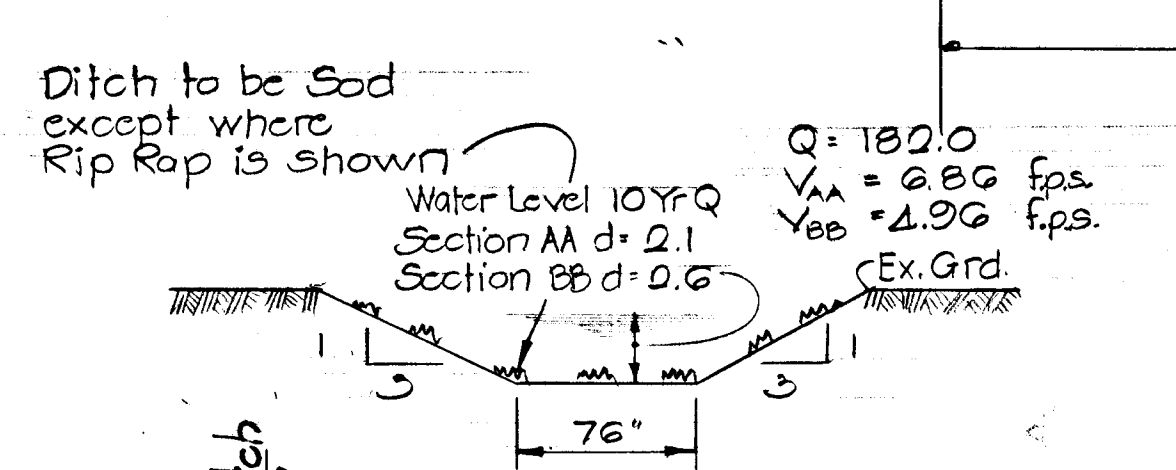
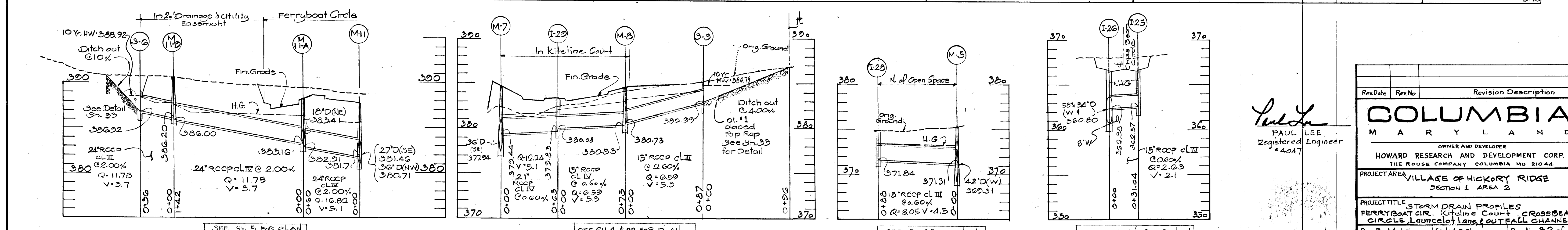
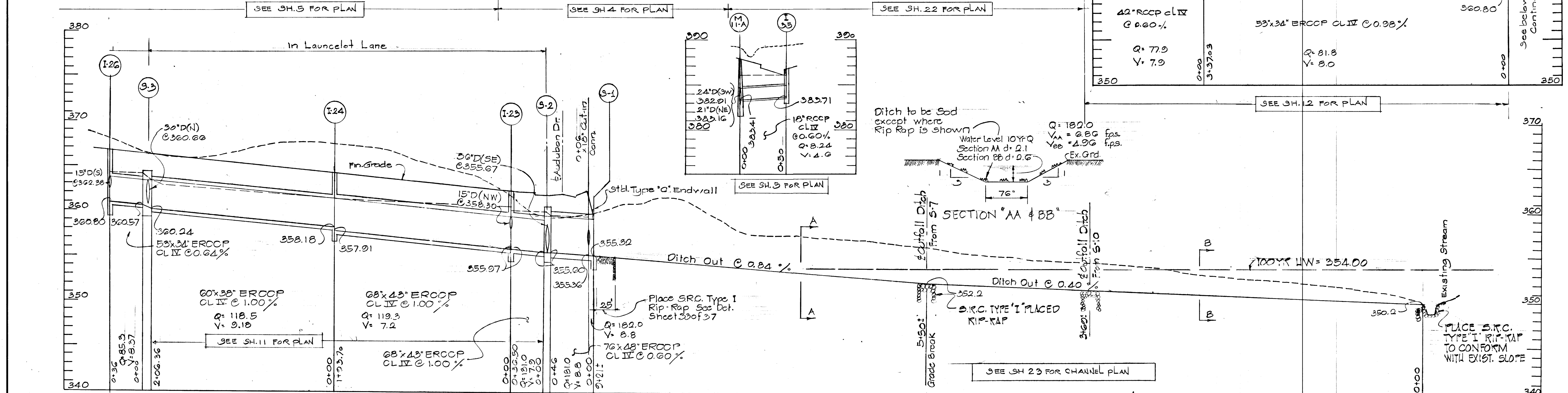
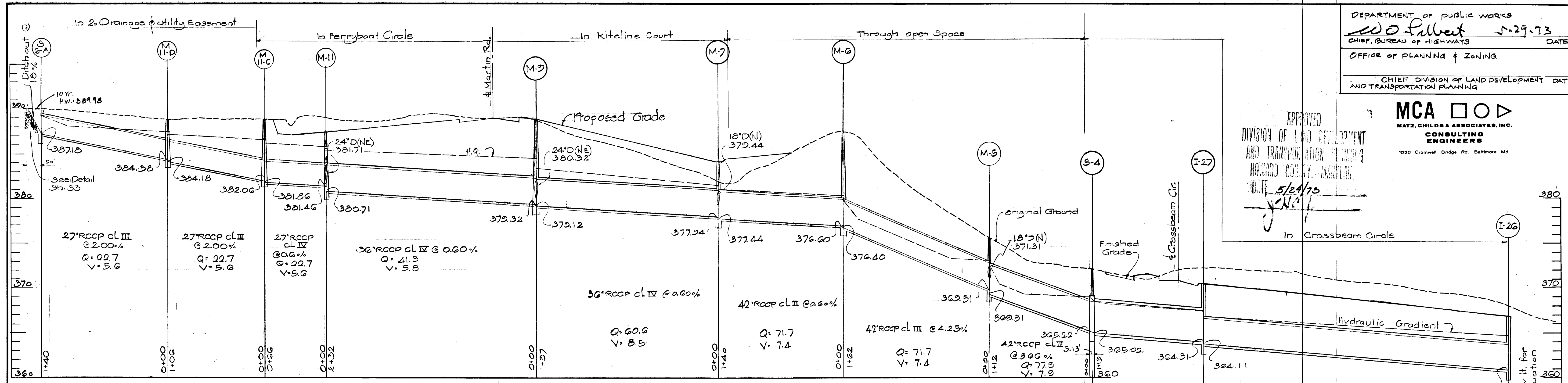
The Proposed Improvements Shown Hereon As A Revision Number 1 Have Been Prepared By Development Facilitators, Inc. On April 18, 1994 In Accordance With Capital Project D-1076S.
 Steven T. Andraka, P.E. #18002 Date 5/16/94

PROFILE
 Scale: 1"=30' Hor.
 1"=5' Vert.

Paul Lee
 Registered Engineer
 #4047



APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 5/24/73
JNC



PROFILES
 Scale: 1" = 30' Horiz
 1" = 3' Vert

Paul Lee
 PAUL LEE
 Registered Engineer
 #4047


Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY COLUMBIA MD 21044

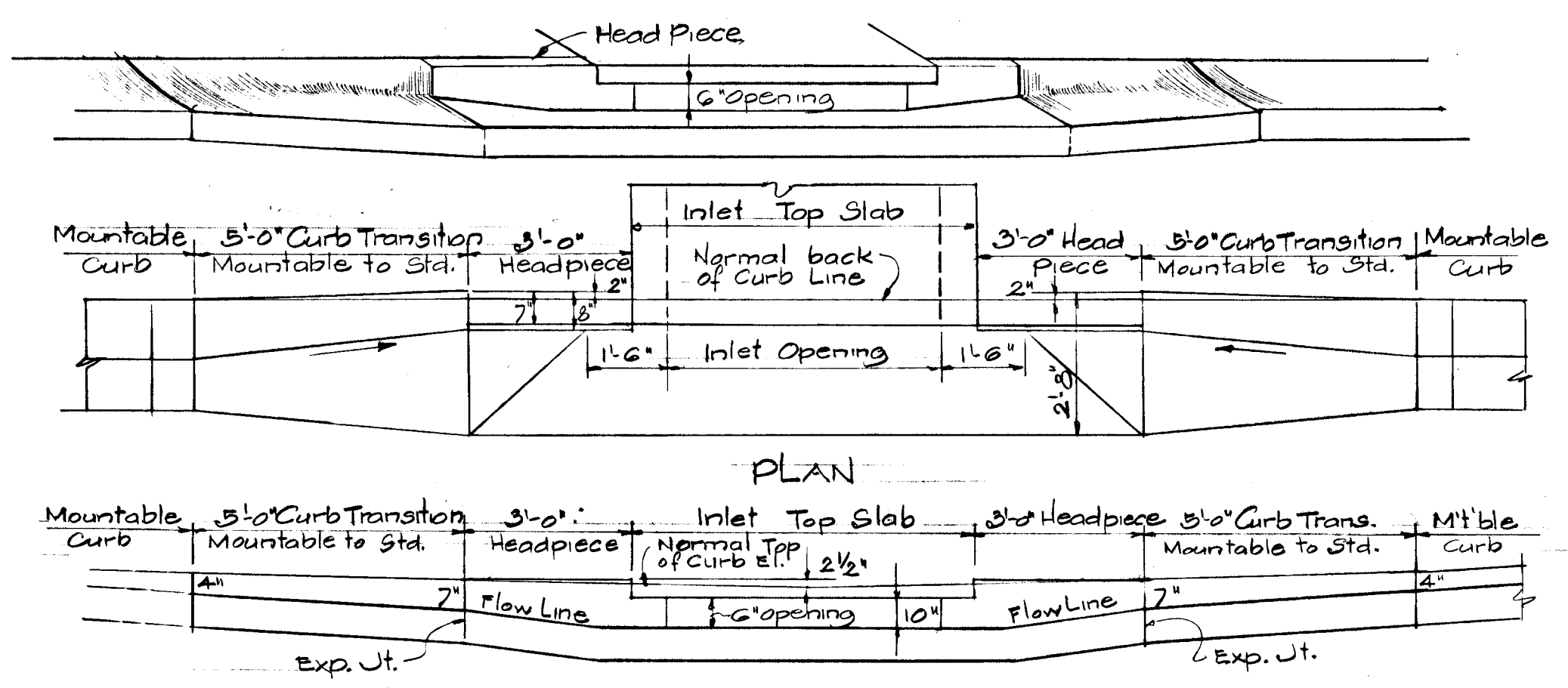
PROJECT AREA: VILLAGE OF HICKORY RIDGE
 SECTION 1 AREA 2

PROJECT TITLE: STORM DRAIN PROFILES
 FERRYBOAT CIR., KITELINE COURT, CROSSBEAM CIRCLE, LAUNCELOT LANE & OUTFALL CHANNEL

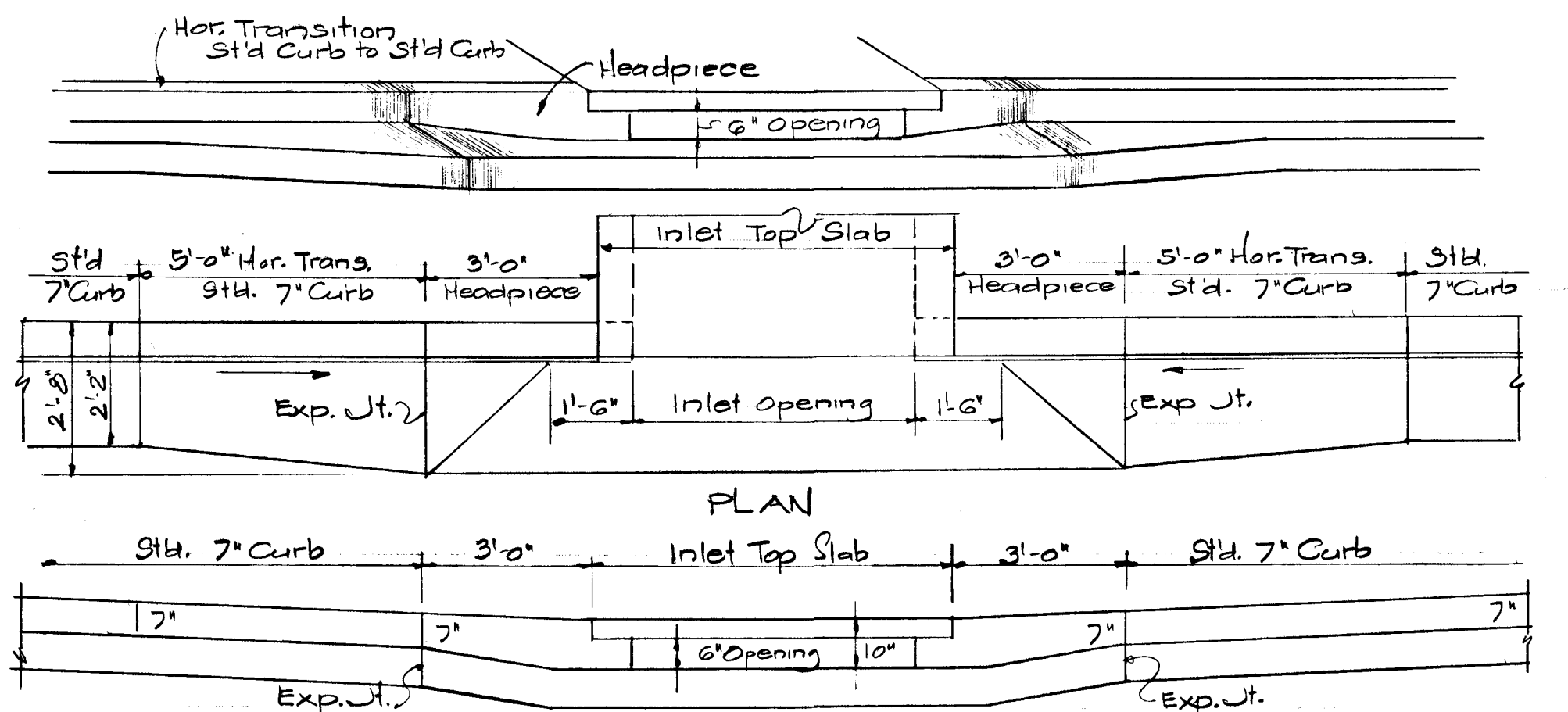
Des. By: MJE Scale: As Shown Dwg. No.: 32 of 37
 Dwn. By: WWD Date: 5-7-73 CCF No.
 Chk. By: MCA Approved

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd., Baltimore Md.

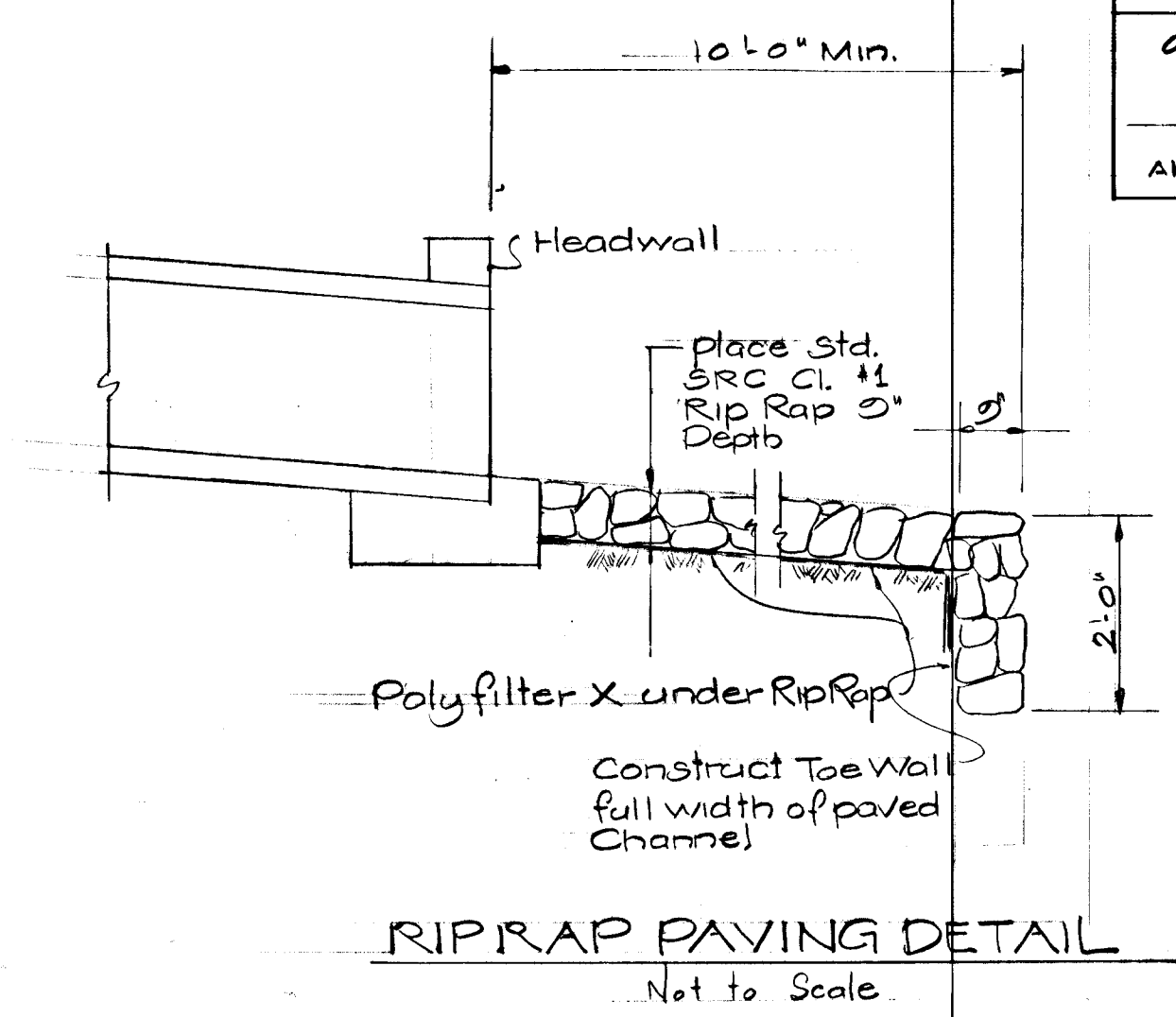
APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HARRIS COUNTY, MARYLAND
 DATE 5/24/73
[Signature]



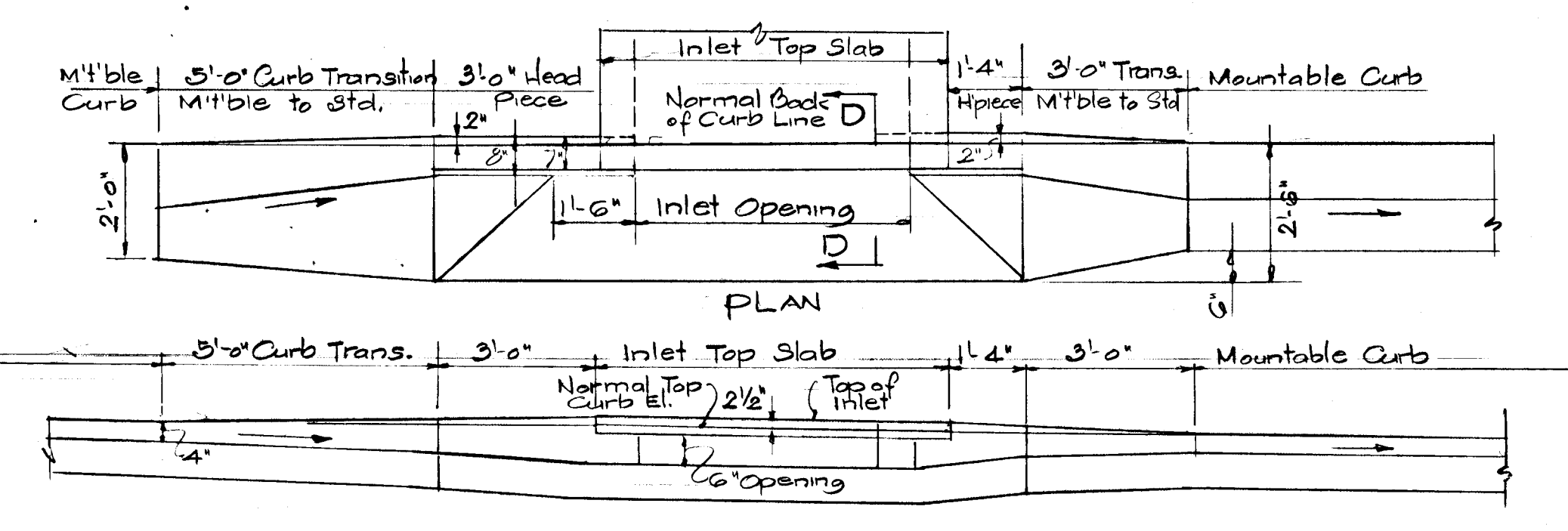
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 SUMPED 'A' INLET - MOUNTABLE CURB
 No Scale



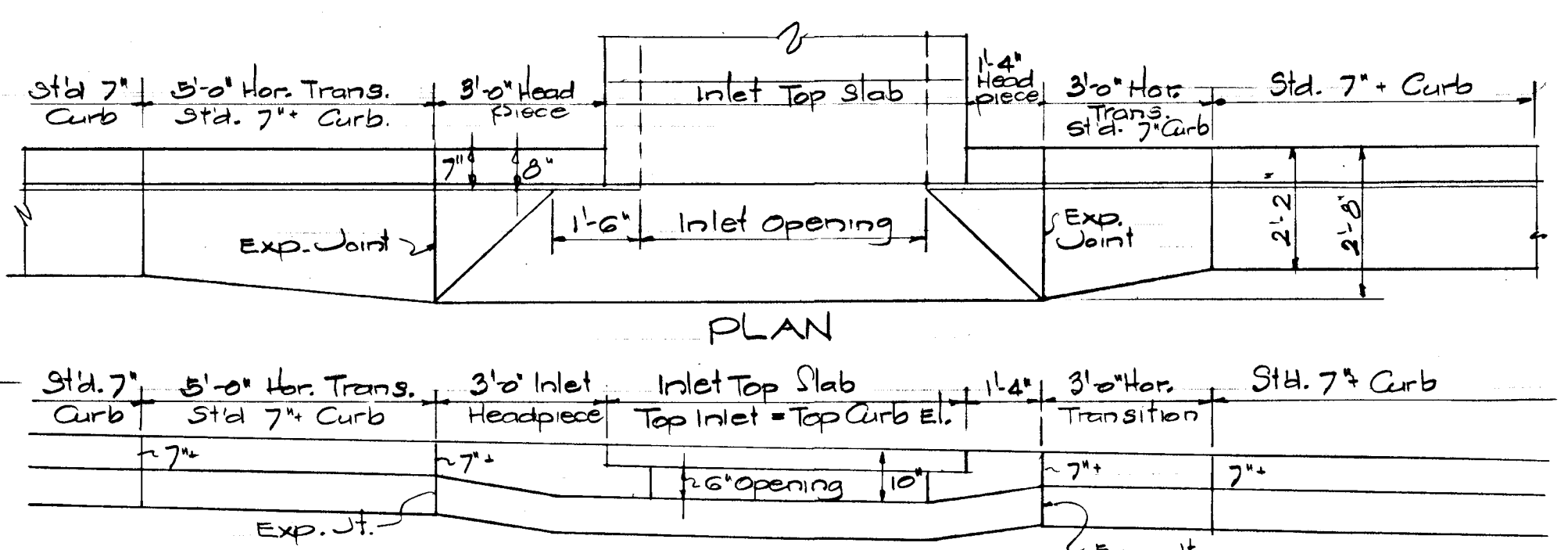
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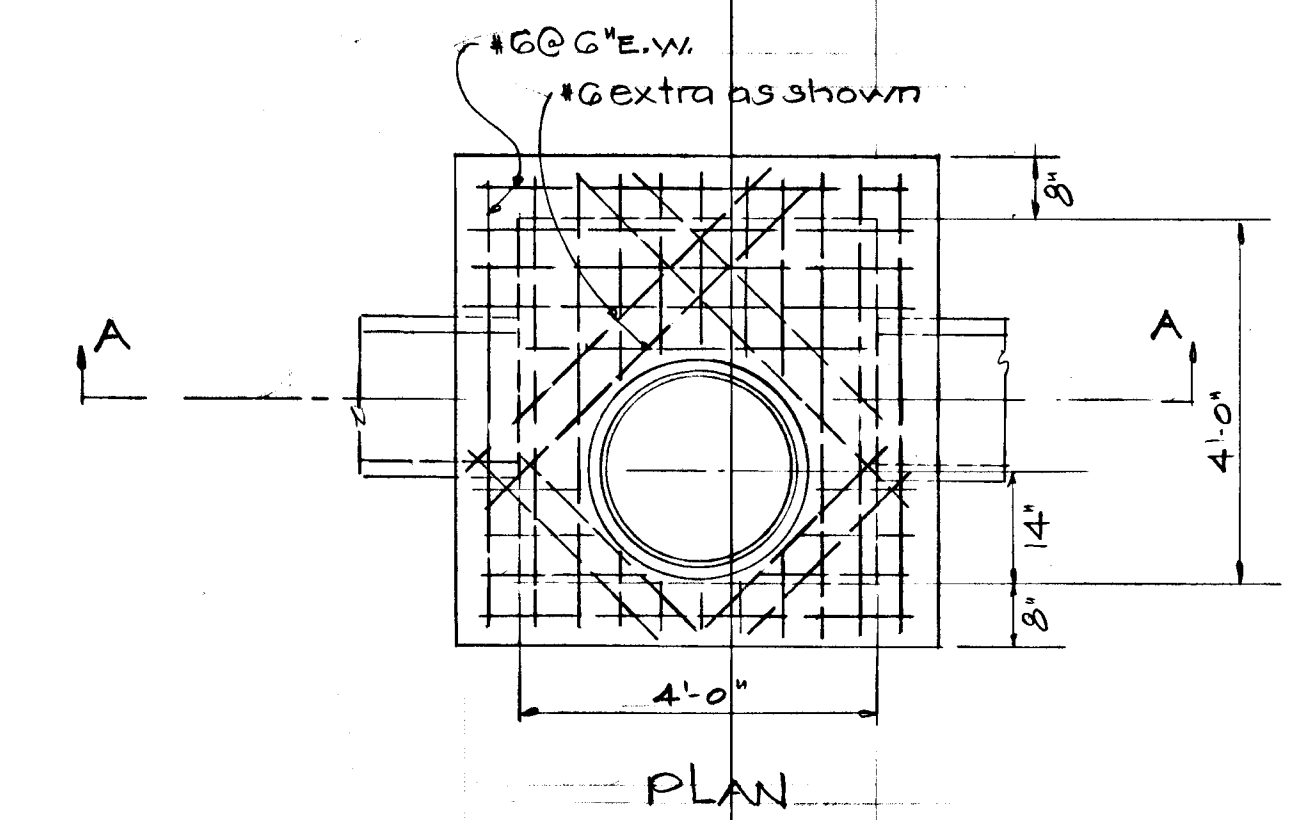
RIPRAP PAVING DETAIL
 Not to Scale



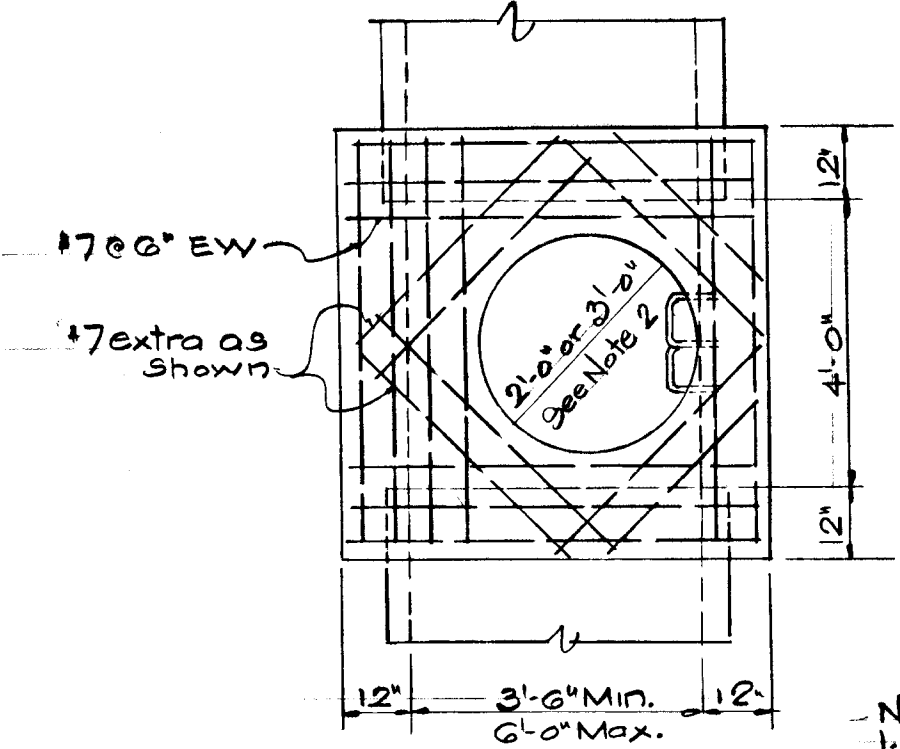
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 'A' INLET ON GRADE - MOUNTABLE CURB
 No Scale



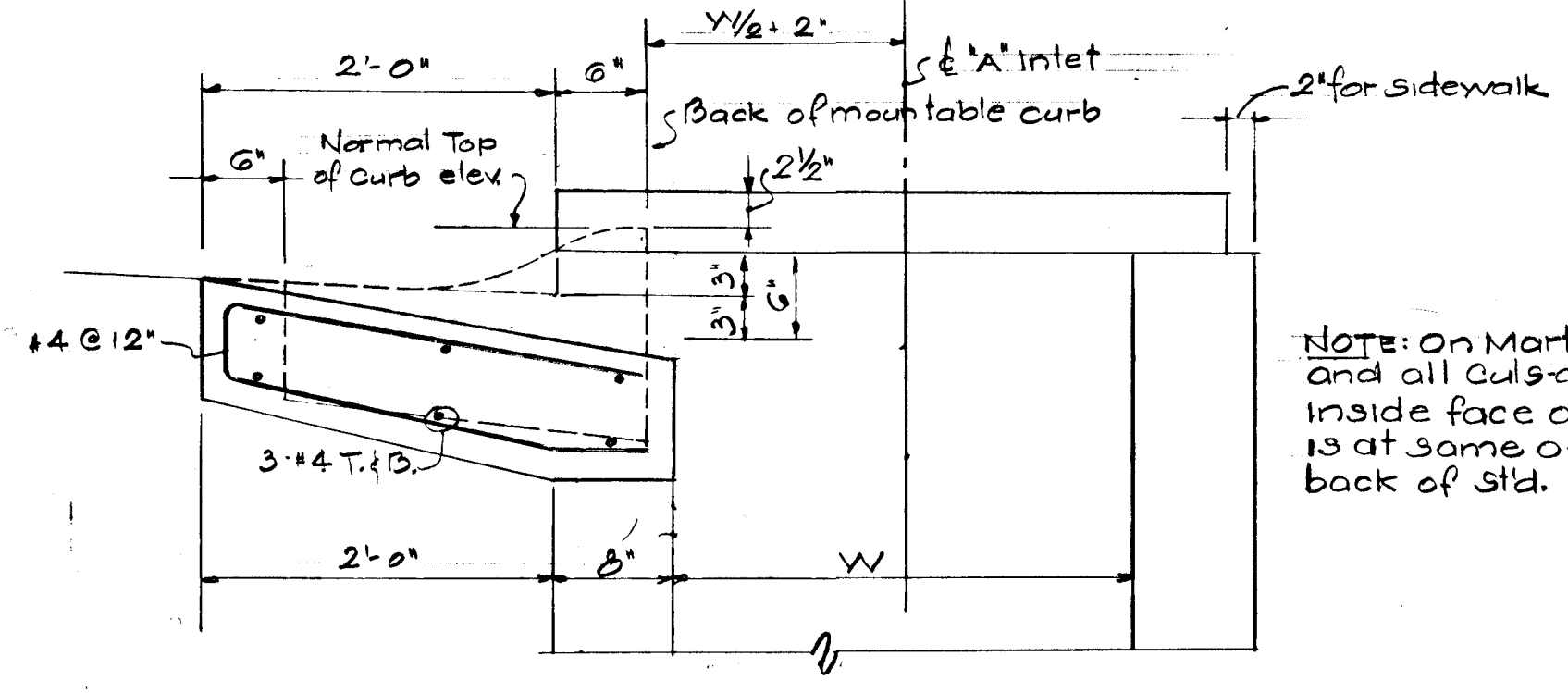
SECTION ALONG FLOW LINE
 'A' INLET ON GRADE - STANDARD CURB
 No Scale



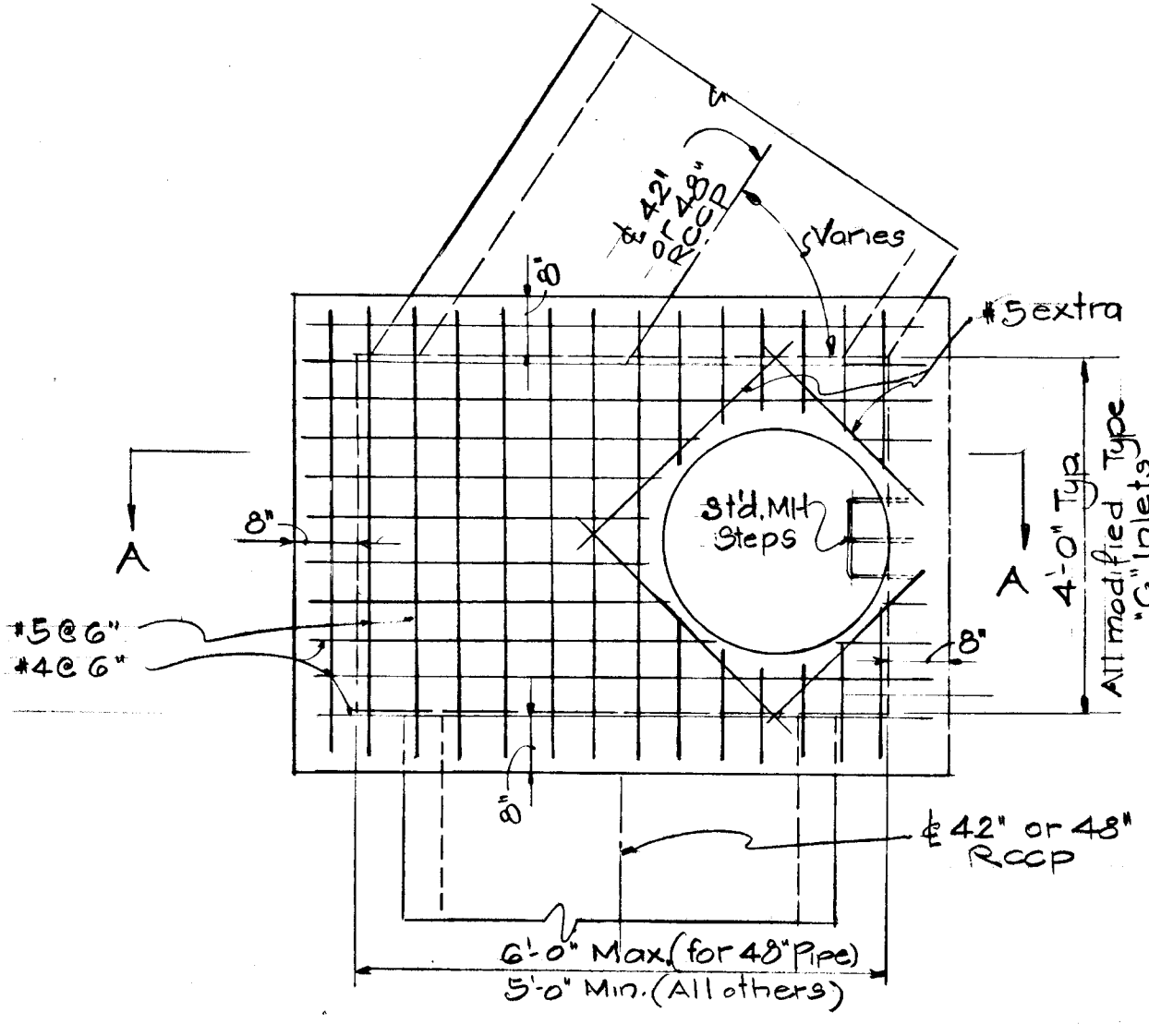
SECTION A-A
 SHALLOW MANHOLE DETAIL
 Not to Scale
 To be used where noted on S.D. Structure Schedule



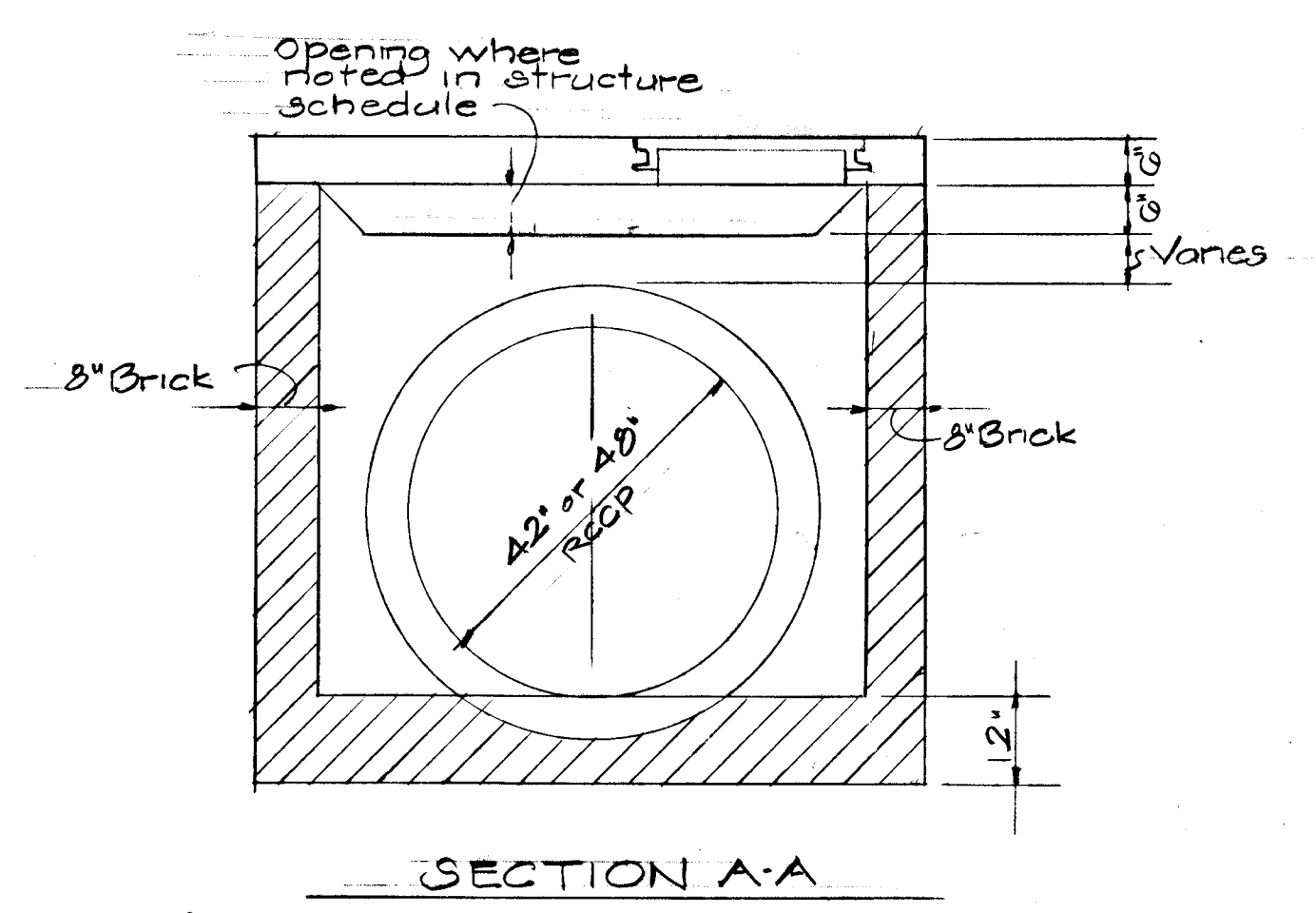
LARGE MANHOLE
 Not to Scale
 To be used where noted on S.D. Structure Schedule



SECTION D-D
 'A' INLET - MOUNTABLE CURB
 No Scale



MODIFIED TYPE 'C' INLET
 Scale: 1/2" = 1'-0"
 To be used at Inlets I-61, I-89



SECTION A-A

Paul Let
 PAUL LET
 Registered Engineer
 #4047


Rev. Date	Rev. No.	Revision Description

COLUMBIA MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY - COLUMBIA MD. 21044

PROJECT AREA: VILLAGE OF HICKORY RIDGE SECTION 1, AREA 2

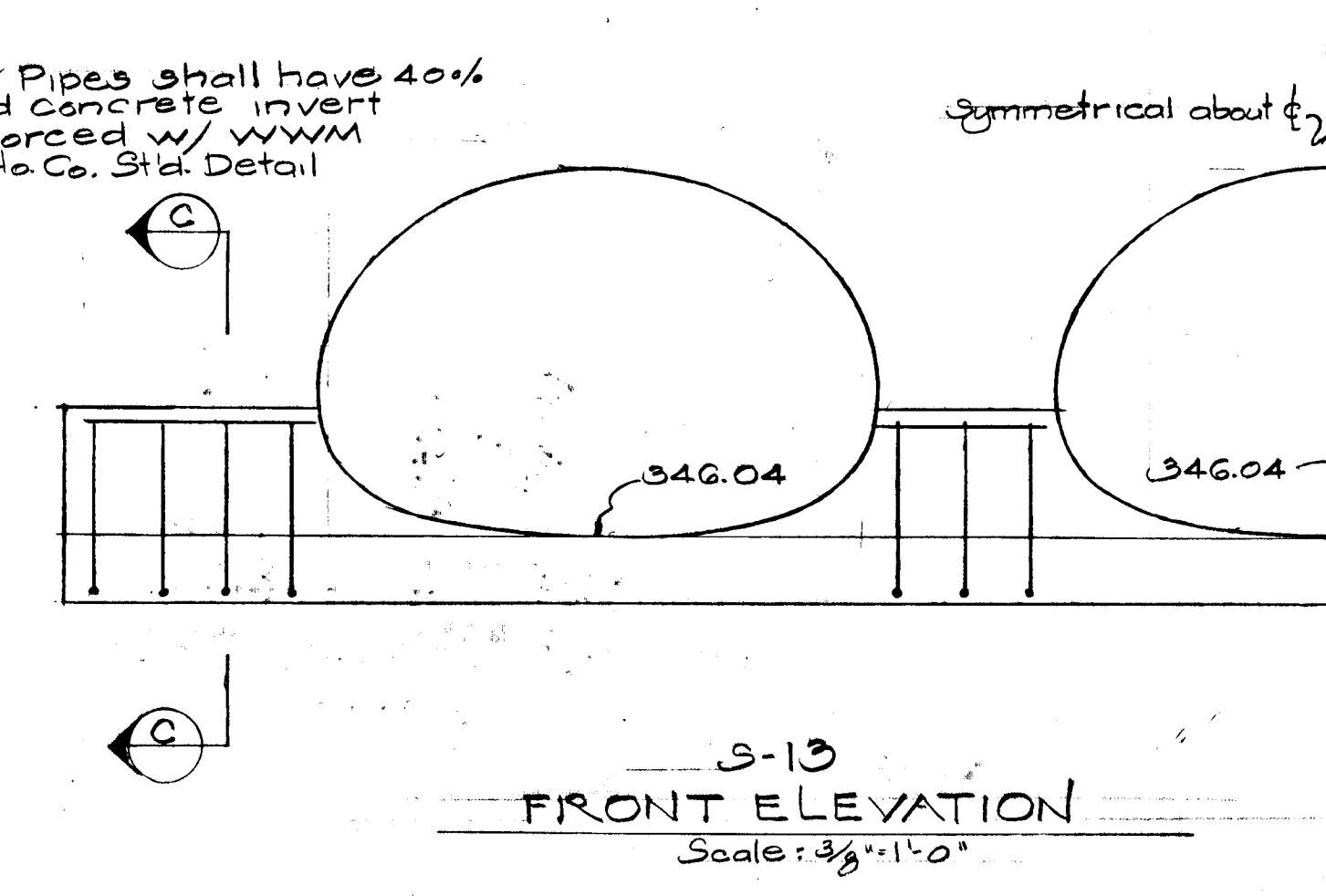
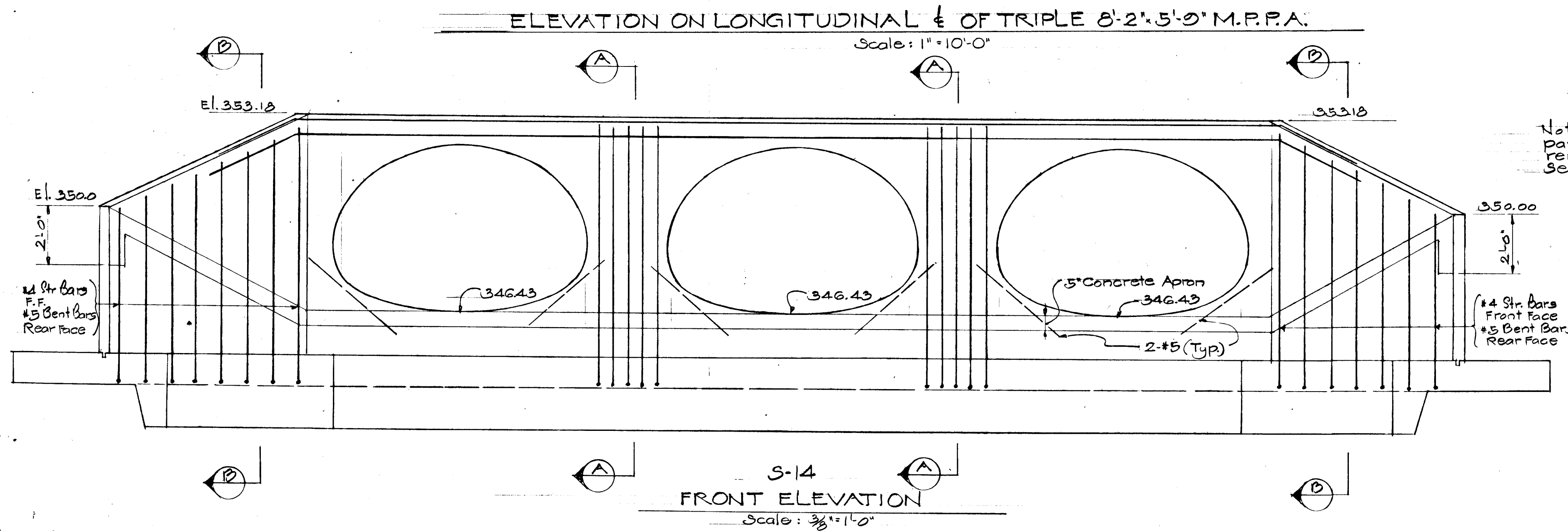
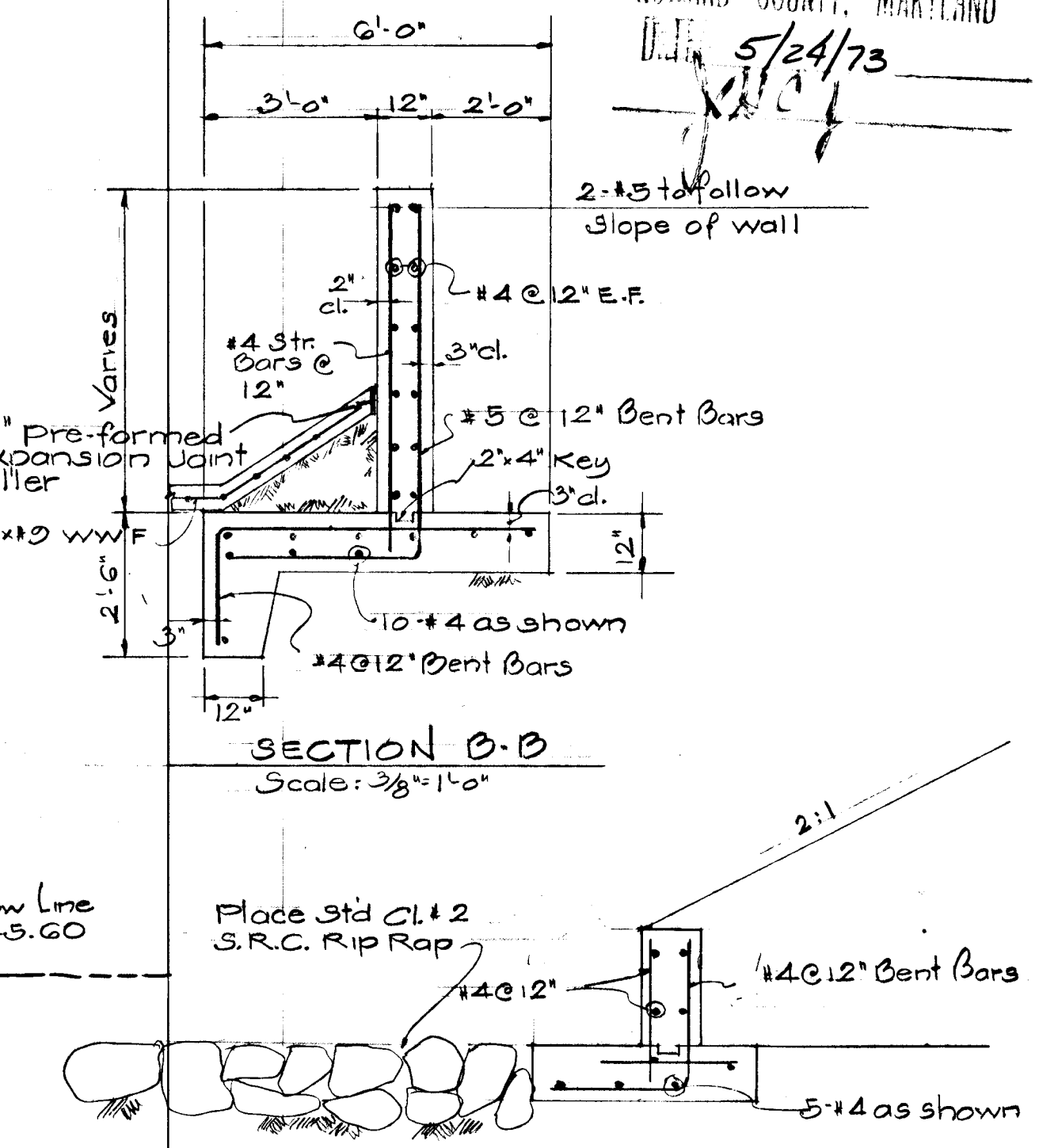
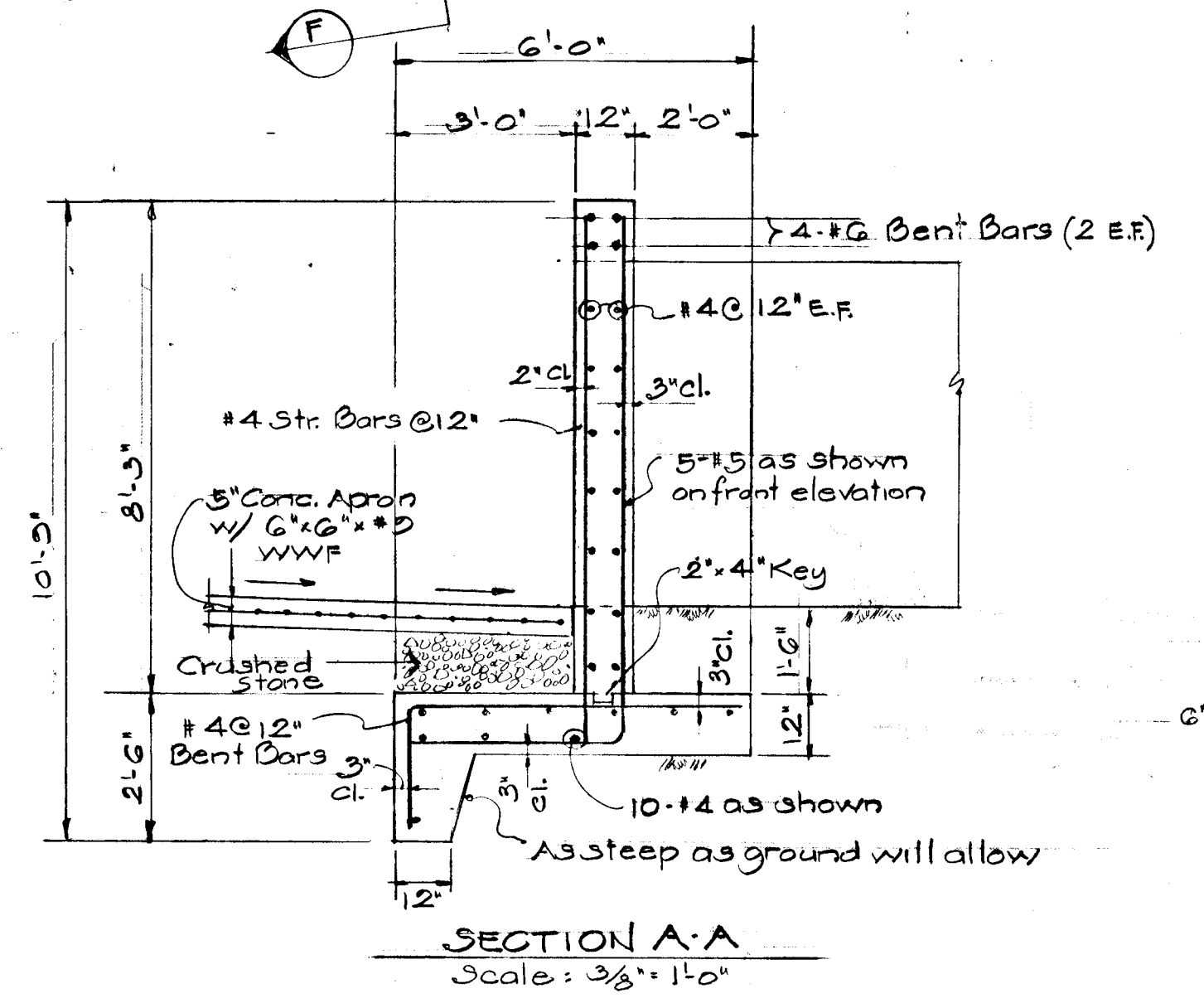
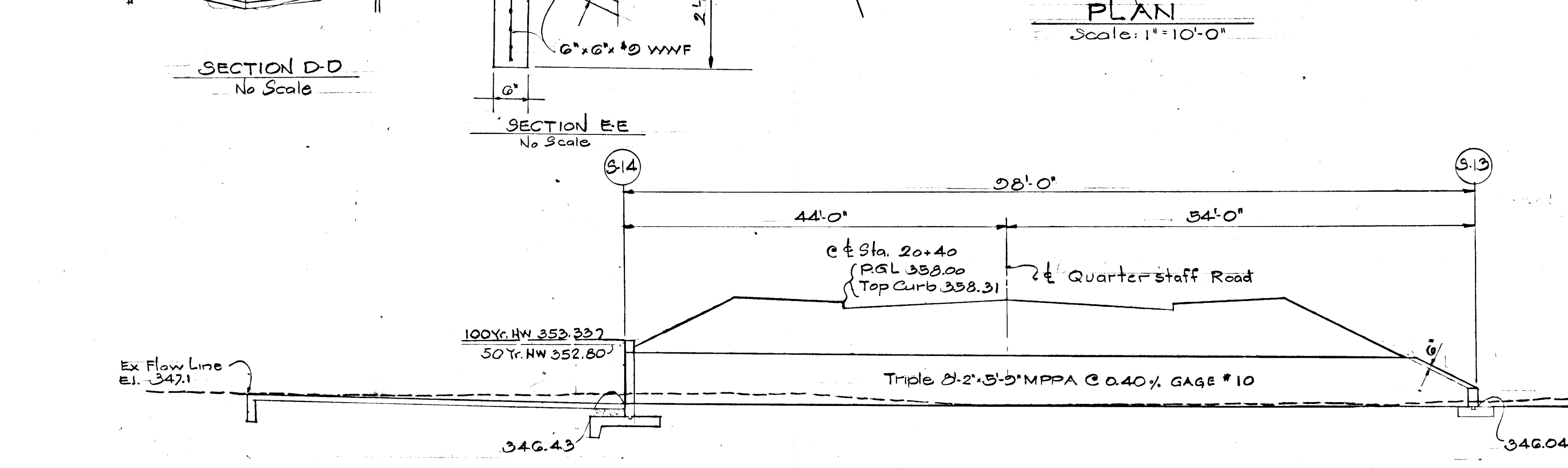
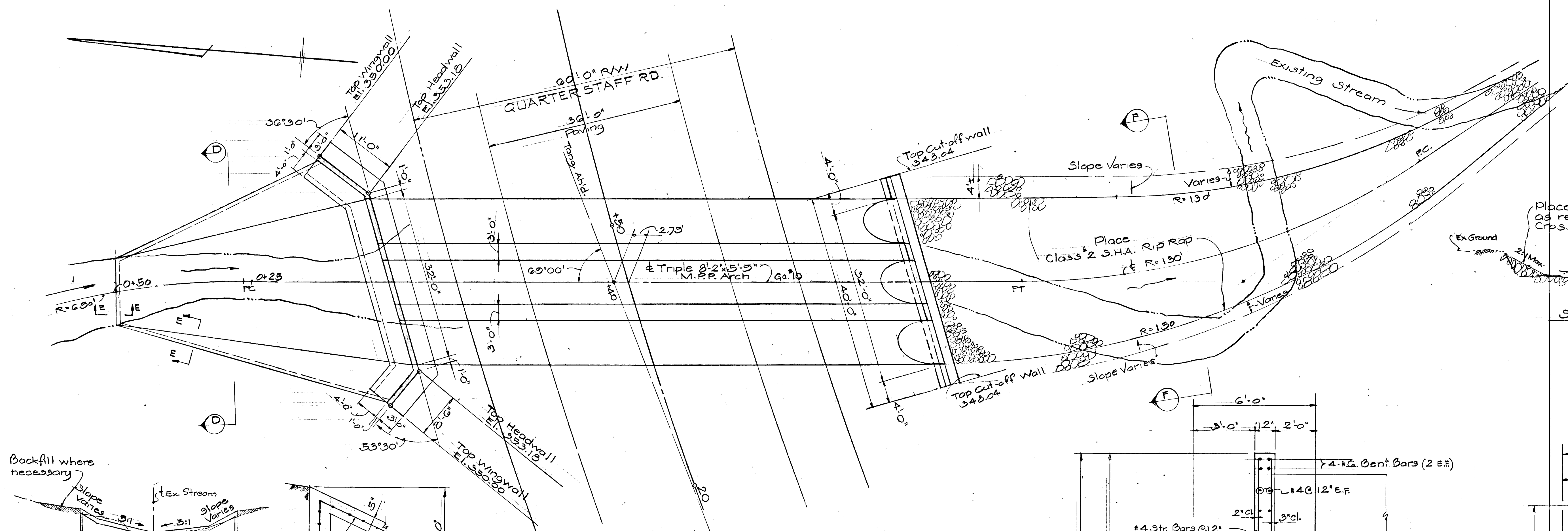
PROJECT TITLE: STORM DRAIN DETAILS INLET THROATS, MANHOLES, MISCELLANEOUS

Des. By: Howard Co. Scale: As Shown Dwg. No. 33 of 37
 Dn. By: W.V.R. Date: 5-7-73 C.C.F. No.
 Chk. By: G.L. Approved

MCA 
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1020 Cromwell Bridge Rd. Baltimore Md.

Paul Lee
 PAUL LEE
 Registered Engineer
 #4047

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 U.T. 5/24/73

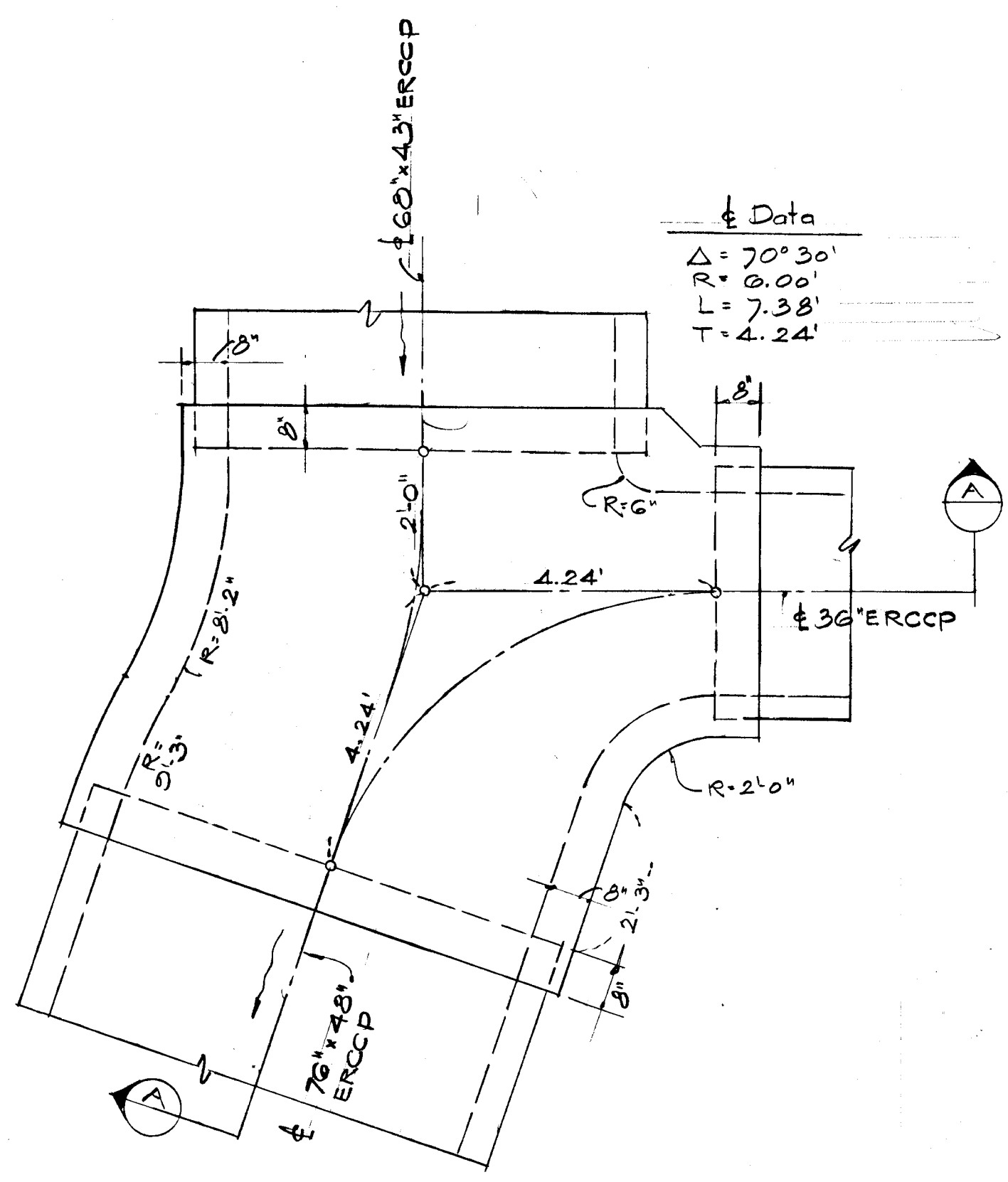


Note: Pipes shall have 40% paved concrete invert reinforced w/ WWF. See No. Co. Std. Detail.

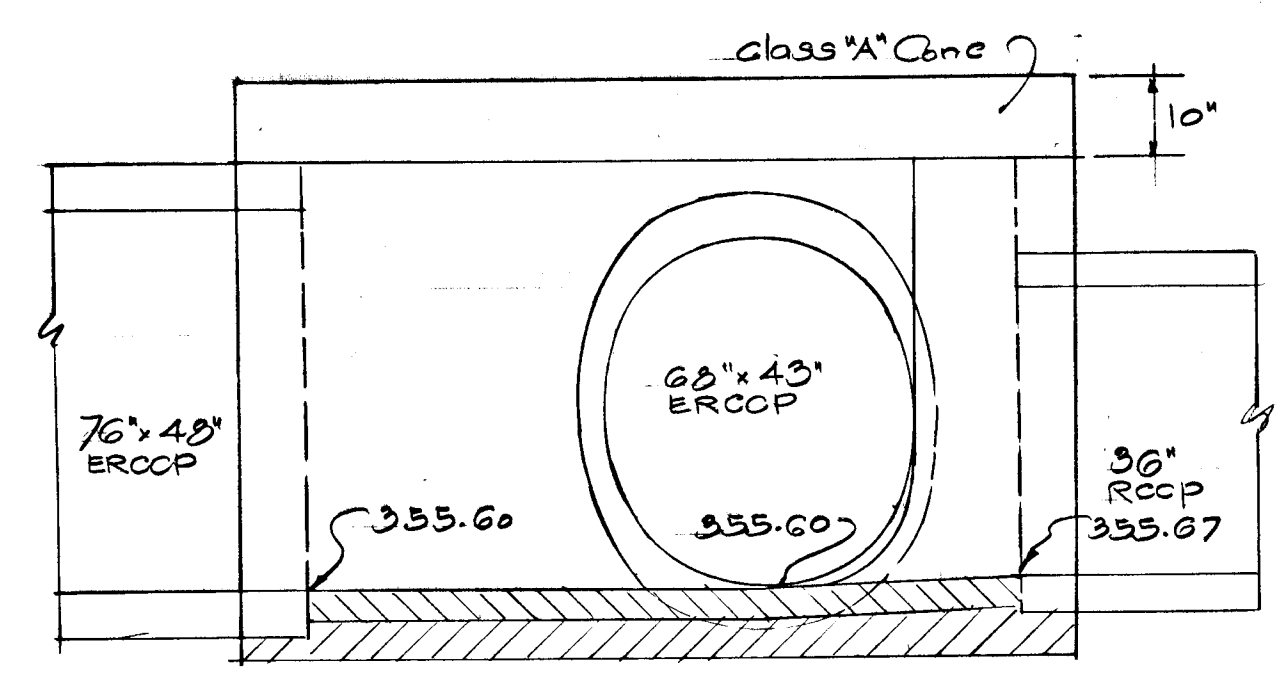
Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY, COLUMBIA 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1 - AREA 2		
PROJECT TITLE PLAN, ELEVATION, & DETAILS		
TRIPLE 8'-2" x 5'-9" M.P.P.A., STA 20+40 QUARTERSTAFF RD		
Des. By: E.B.	Scale: AS SHOWN	Dwg No. 34 of 37
Drn. By: W.B.	Date: 5-7-73	C.C.F. No.
Chk. By: G.L.	Approved	

#42

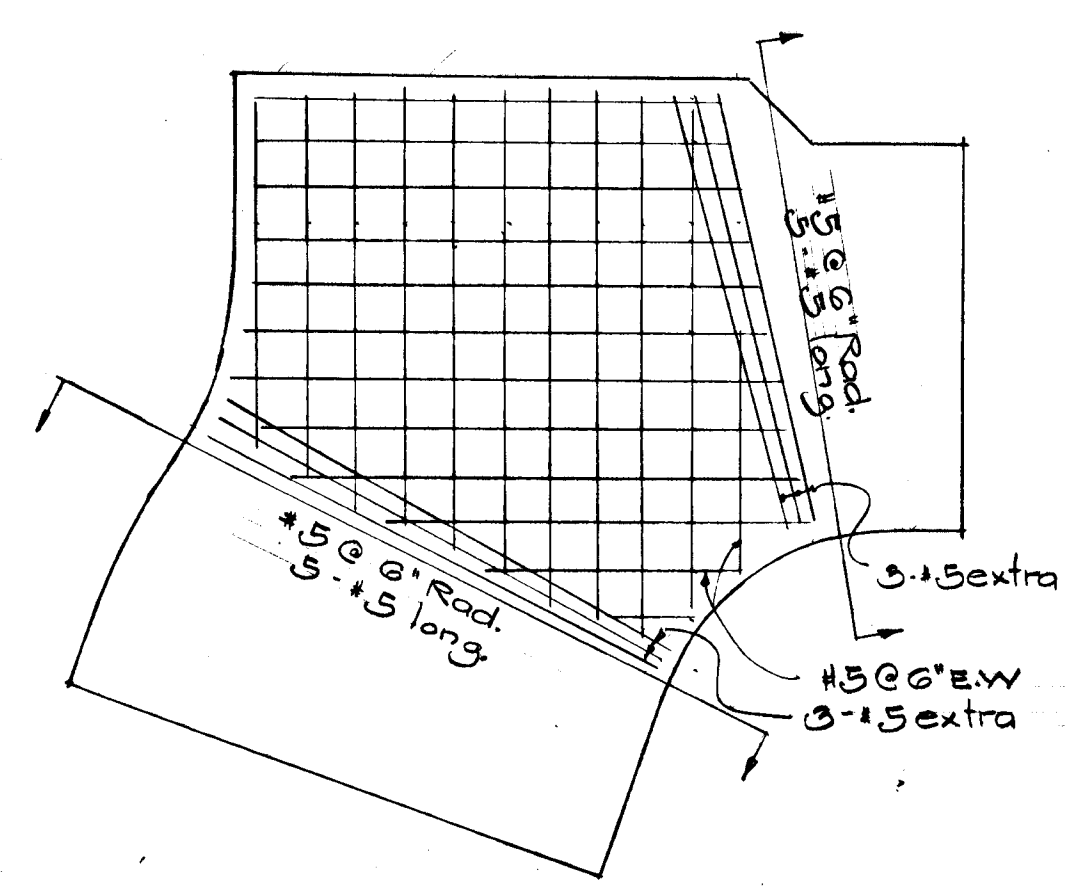
DEPARTMENT OF PUBLIC WORKS
W.D. Filbert 5-29-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING DATE



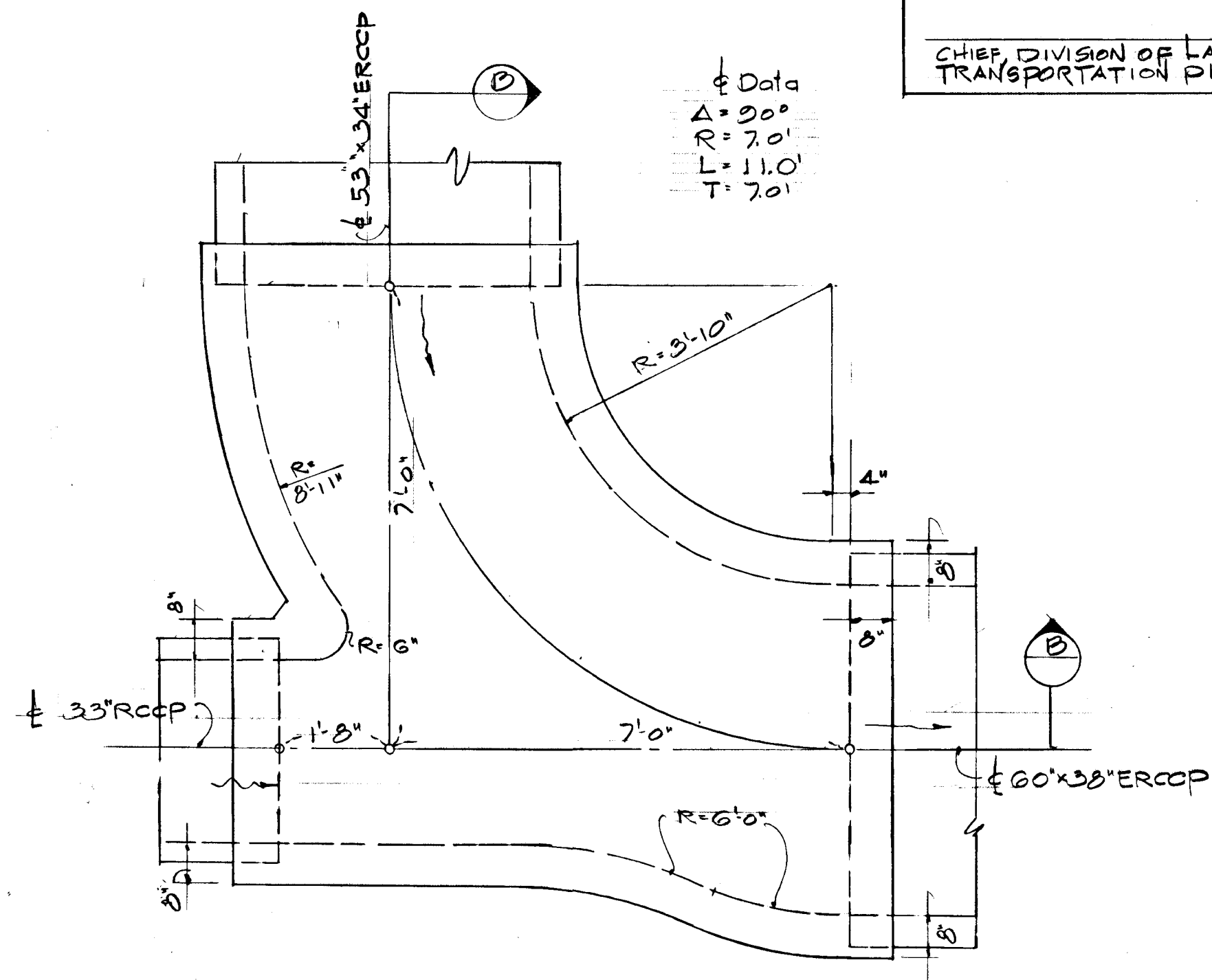
PLAN ABOVE TOP SLAB



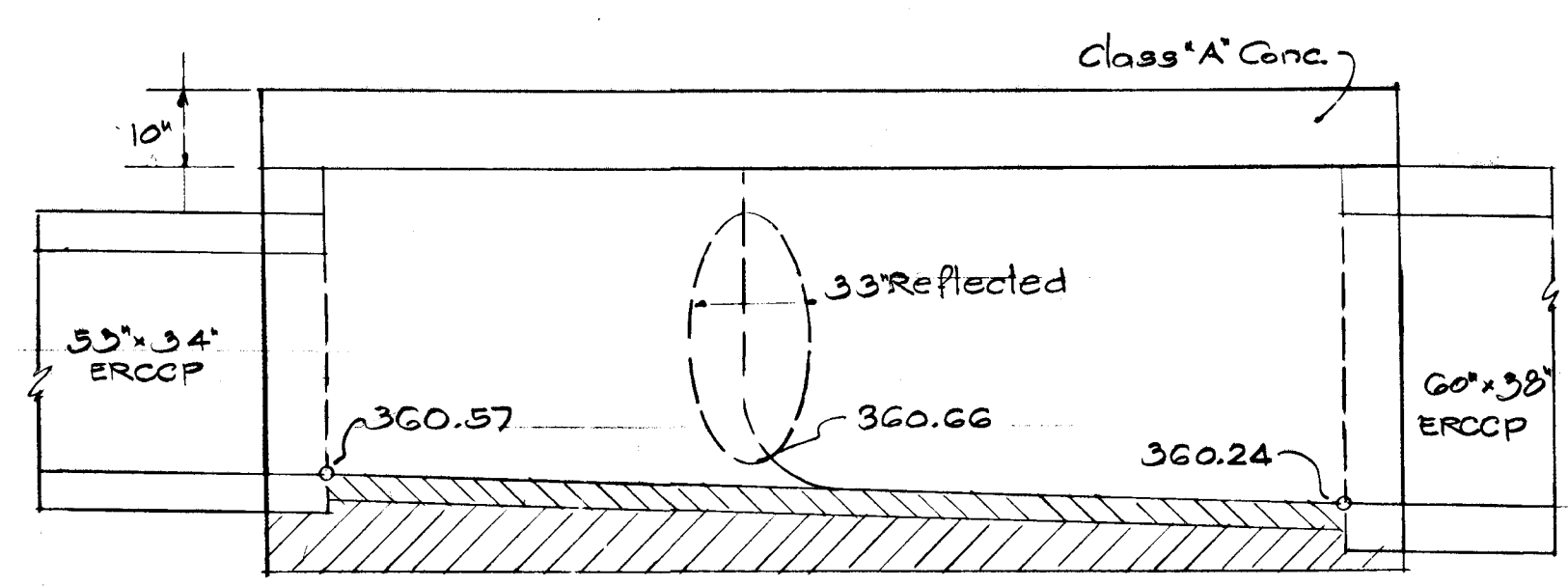
SECTION A-A



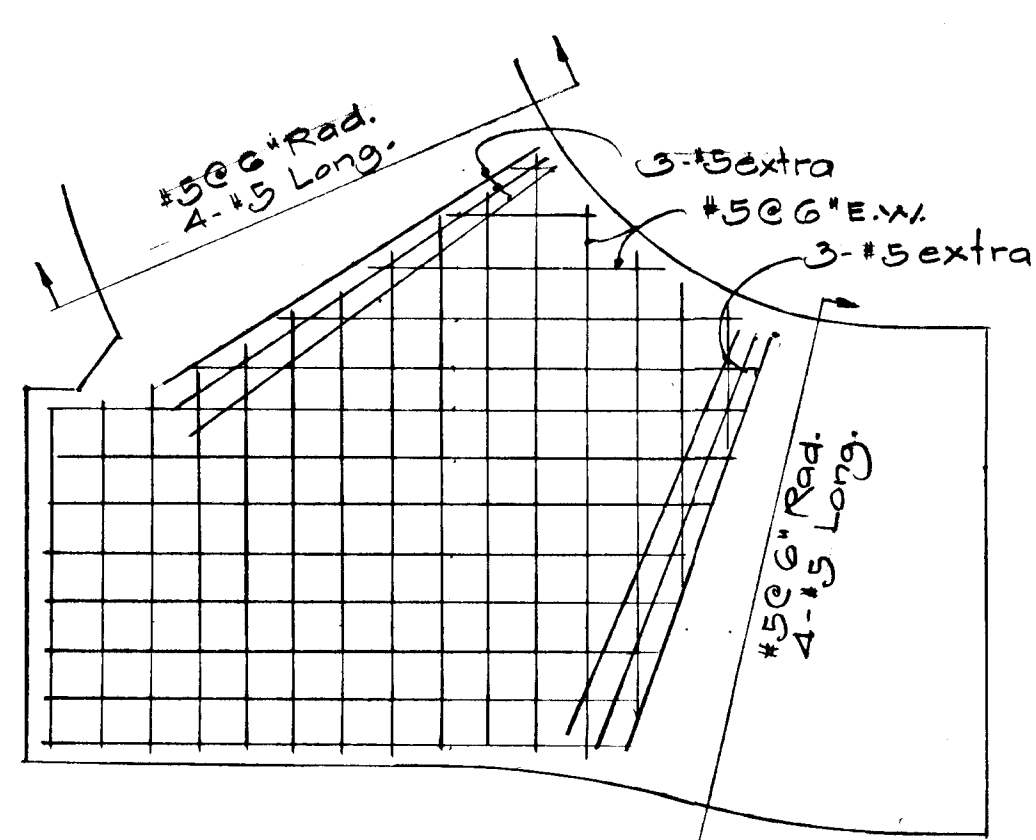
TOP SLAB REINFORCING
 S-2 DETAILS
 Scale: 1/2" = 1'-0"



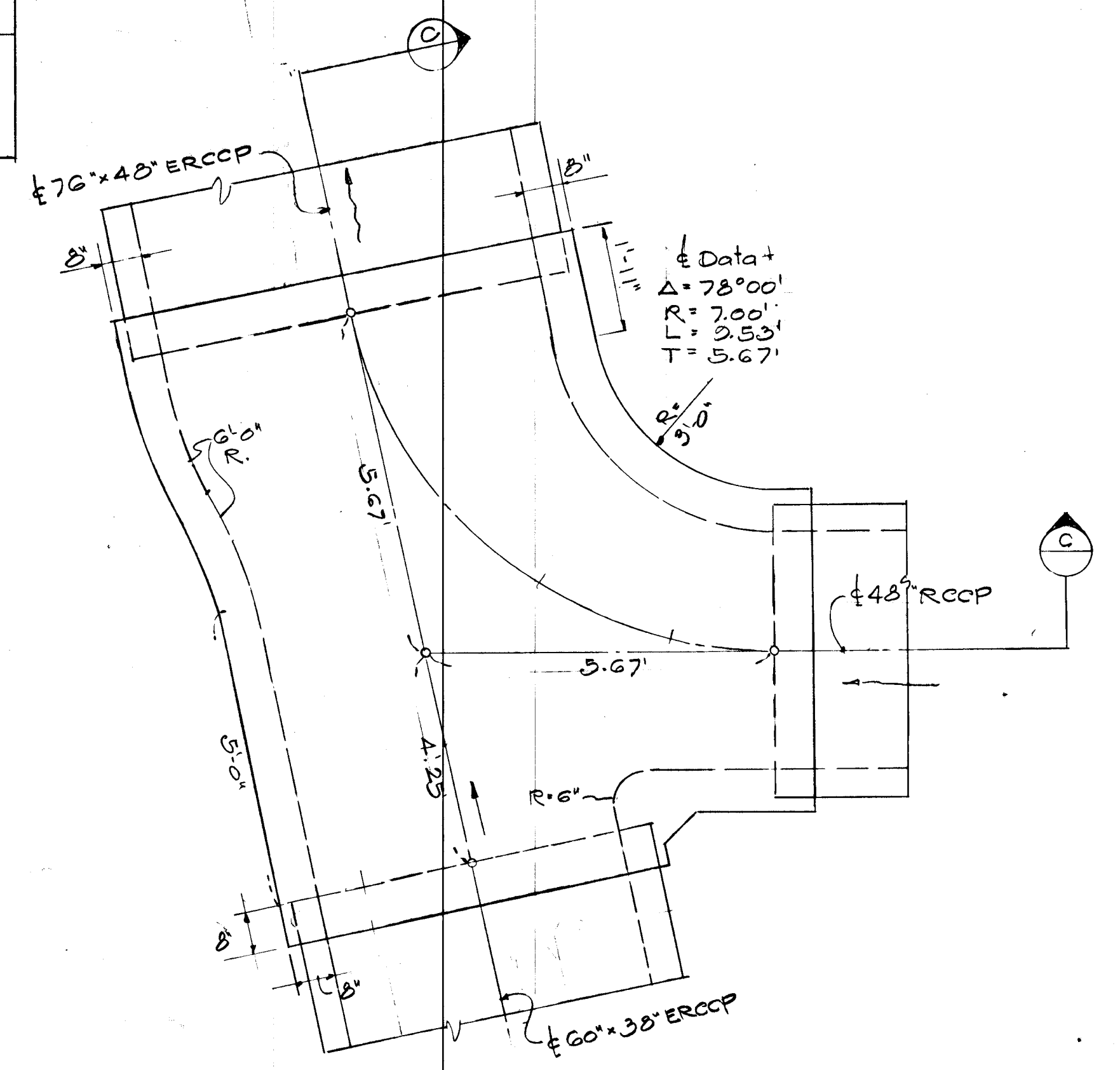
PLAN ABOVE TOP SLAB



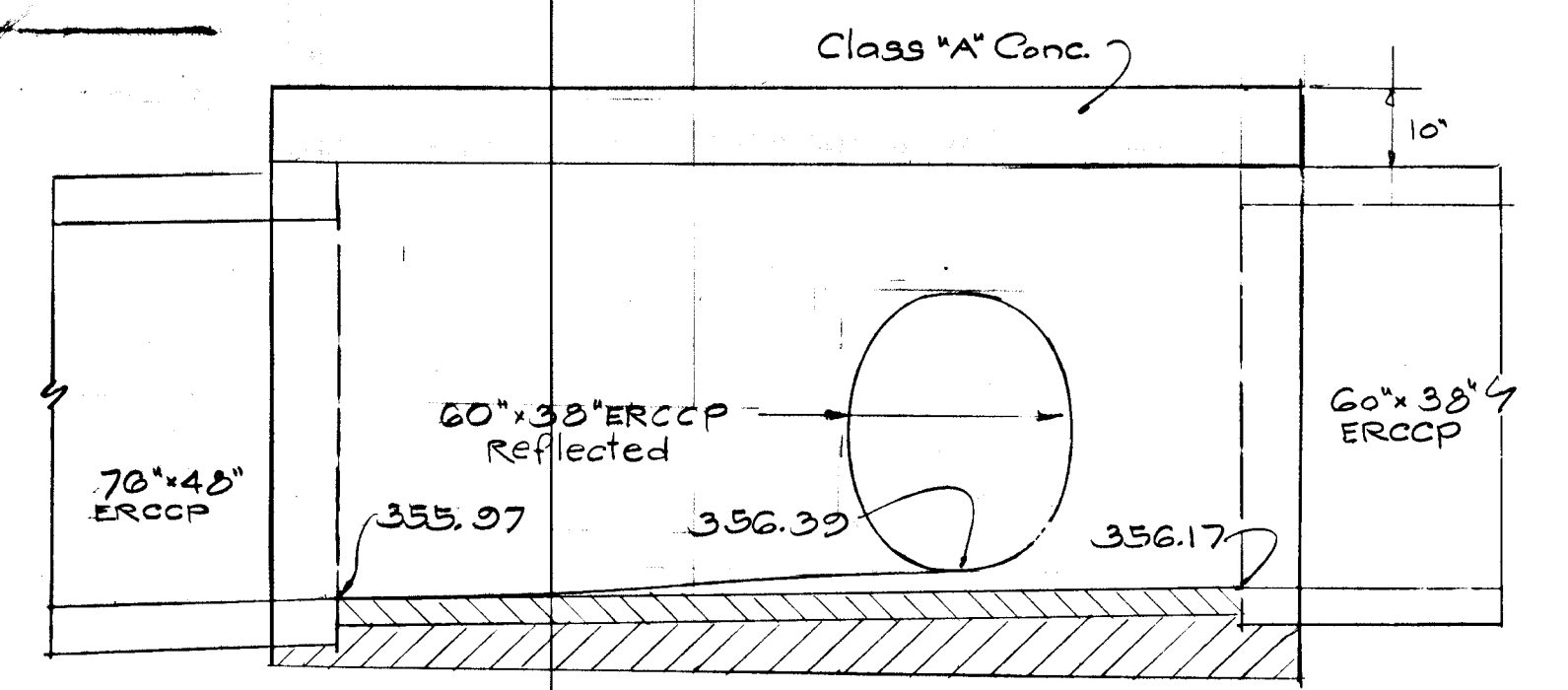
SECTION B-B



TOP SLAB REINFORCING
 S-3 DETAILS
 Scale: 1/2" = 1'-0"

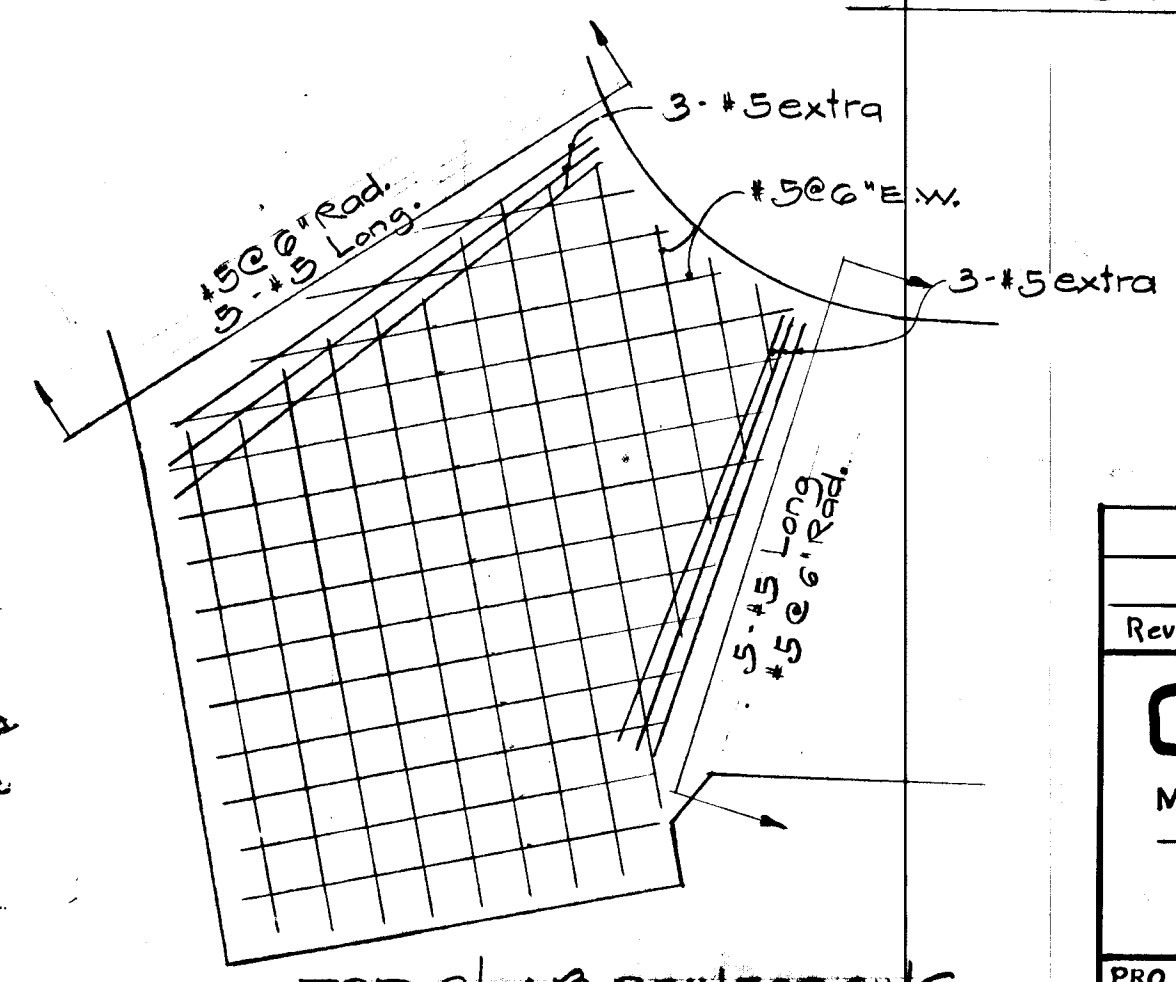


PLAN ABOVE TOP SLAB



SECTION C-C

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 5/24/73
J.L.C.



TOP SLAB REINFORCING
 S-27 DETAILS
 Scale: 1/2" = 1'-0"

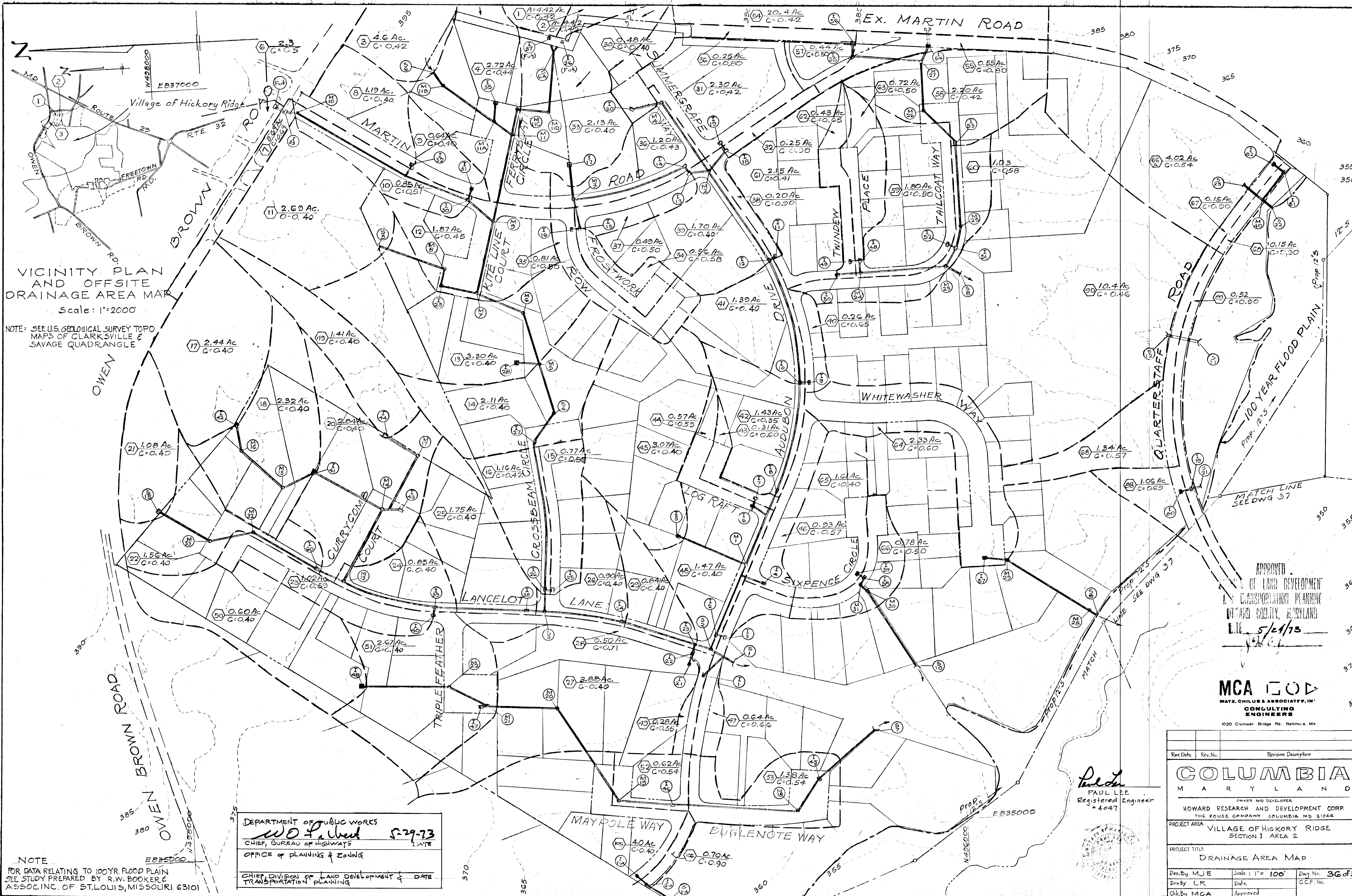
MCA □ □ □
 CONSULTING ENGINEERS
 1070 ... Bridge Rd. ...

Paul Lee
 PAUL LEE
 Registered Engineer
 #4047

Rev. Date	Rev. No.	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY - COLUMBIA MD. 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 1 - AREA 2		
PROJECT TITLE STORM DRAIN DETAILS JUNCTION CHAMBER DETAILS		
Des. By: M.J.E., W.B.	Scale: As Shown	Dwg. No. 35 of 37
Drn. By: W.D.	Date: 5-7-73	C.C.F. No.
Chk. By: G.L.	Approved	

VICINITY PLAN AND OFFSITE DRAINAGE AREA MAP
Scale: 1"=2000'

NOTE: SEE U.S. GEOLOGICAL SURVEY TOPO MAPS OF CLARKSVILLE & SAVAGE QUADRANGLE



NOTE FOR DATA RELATING TO 100YR. FLOOD PLAIN SEE STUDY PREPARED BY R.W. BOOKER & ASSOC. INC. OF ST. LOUIS, MISSOURI 63101

DEPARTMENT OF PUBLIC WORKS
W. P. Albert 5-29-73
CHIEF, BUREAU OF HIGHWAYS DATE
OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING DATE

APPROVED
OFFICE OF LAND DEVELOPMENT
& TRANSPORTATION PLANNING
WATSON COUNTY, MARYLAND
DATE 5/21/73
1981

MCA
MATZ, CHILDS & ASSOCIATES, INC.
CONSULTING ENGINEERS
1020 Cromwell Bridge Rd., Baltimore, Md.

Paul Lee
PAUL LEE
Registered Engineer
#4047

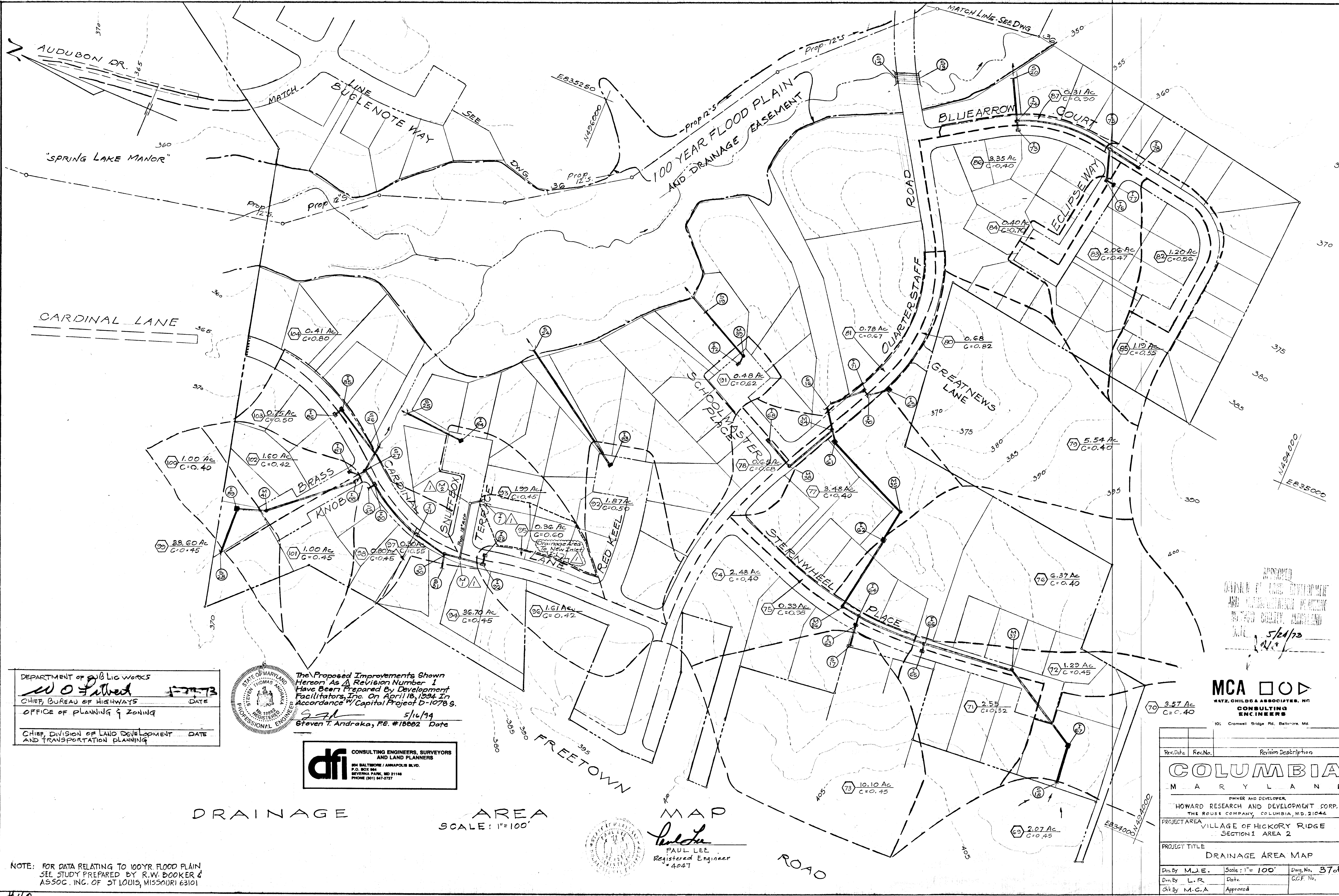
Rev. No.	Rev. Date	Revision Description

COLUMBIA
MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY COLUMBIA MD 21044

PROJECT AREA
VILLAGE OF HICKORY RIDGE
SECTION 1 AREA 2

PROJECT TITLE
DRAINAGE AREA MAP

Des. By MJE	Scale: 1" = 100'	Dwg. No. 36 of 37
Drn. By L.R.	Date	C.C.F. No.
Chk. By MCA	Approved	



DEPARTMENT OF PUBLIC WORKS
W O Feltner 5-24-73
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE



The Proposed Improvements Shown Hereon As A Revision Number 1 Have Been Prepared By Development Facilitators, Inc. On April 18, 1994 In Accordance W/ Capital Project D-10789.
SJA 5/14/94
 Steven T. Andracka, P.E. #18882 Date

dfi CONSULTING ENGINEERS, SURVEYORS AND LAND PLANNERS
 804 BALTIMORE / ANNAPOLIS BLVD.
 P.O. BOX 984
 SEVERNA PARK, MD 21146
 PHONE (301) 847-3727

DRAINAGE AREA MAP
 SCALE: 1"=100'



Paul Lee
 PAUL LEE
 Registered Engineer
 #4047

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HICKORY RIDGE, MARYLAND
 DATE 5/24/93
WLF

MCA
 MATZ, CHILDS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 100 Cromwell Bridge Rd., Baltimore, Md.

Rev. Date	Rev. No.	Revision Description

COLUMBIA
 MARYLAND
 OWNER AND DEVELOPER:
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY, COLUMBIA, MD. 21044

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION I AREA 2

PROJECT TITLE
 DRAINAGE AREA MAP

Des. By M.J.E. Scale: 1"=100' Dwg. No. 37 of 37
 Dwn. By L.R. Date GCF No.
 Ck. By M.C.A. Approved

NOTE: FOR DATA RELATING TO 100YR FLOOD PLAIN SEE STUDY PREPARED BY R.W. BOOKER & ASSOC. INC. OF ST. LOUIS, MISSOURI 63101

#42

F-73-65C