

SHEET INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & DETAILS
3	TYPICAL SECTIONS & DETAILS
4	DRAINAGE AREA MAP
5	DRAINAGE AREA MAP
6	DOBBIN RD. STA. 51+55.68 TO STA. 59+54.34
7	DOBBIN RD. STA. 59+54.34 TO STA. 74+00
8	DOBBIN RD. STA. 74+00 TO STA. 86+00
9	DOBBIN RD. STA. 86+00 TO STA. 99+95.50
10	OLD MONTGOMERY RD. PROP. STA. 0+00 TO STA. 2+63.67
11	STORM DRAIN PROFILES
12	STORM DRAIN PROFILES
13	STORM DRAIN PROFILES
14	END SUPPORT WALL & ENERGY DISSIPATER
1 OF 1	SEDIMENT CONTROL DETAILS

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND 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, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWINGS:
 

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS & ELECTRIC CO.	539-8000 EXT. 691
- BRICK BULKHEAD SHALL BE INSTALLED IN ALL STORM DRAIN STUBS.
- ALL INLETS SHALL BE HOWARD COUNTY STANDARDS
- STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.  
DOBBIN ROAD - 35 M.P.H.  
OLD MONTGOMERY RD. PROP. - 35 M.P.H.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT 465-3180 AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- 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 COMMENCING OF CONSTRUCTION OPERATIONS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- END WALLS: THE TYPES OF ENDWALLS SHOWN ON THE PLANS ARE SUBJECT TO CHANGE, AND ARE NOT TO BE CONSTRUCTED UNTIL GRADING IS COMPLETED. DIMENSIONS OF ENDWALLS AS SHOWN ON STANDARD PLATES MAY BE MODIFIED FOR USE WITH CORRUGATED METAL PIPE, PIPE ARCH OR OTHERWISE AS DIRECTED BY THE ENGINEER.
- INVERTS OF INLETS AND HEADWALLS: INVERT ELEVATIONS OF INLETS AND HEADWALLS MAY BE MODIFIED TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES. DIMENSIONS OF STRUCTURES AS SHOWN ON STANDARD PLATES MAY BE MODIFIED FOR USE WITH CORRUGATED METAL PIPE, PIPE ARCH OR OTHERWISE AS DIRECTED BY THE ENGINEER.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1971 EDITION.

# COLUMBIA

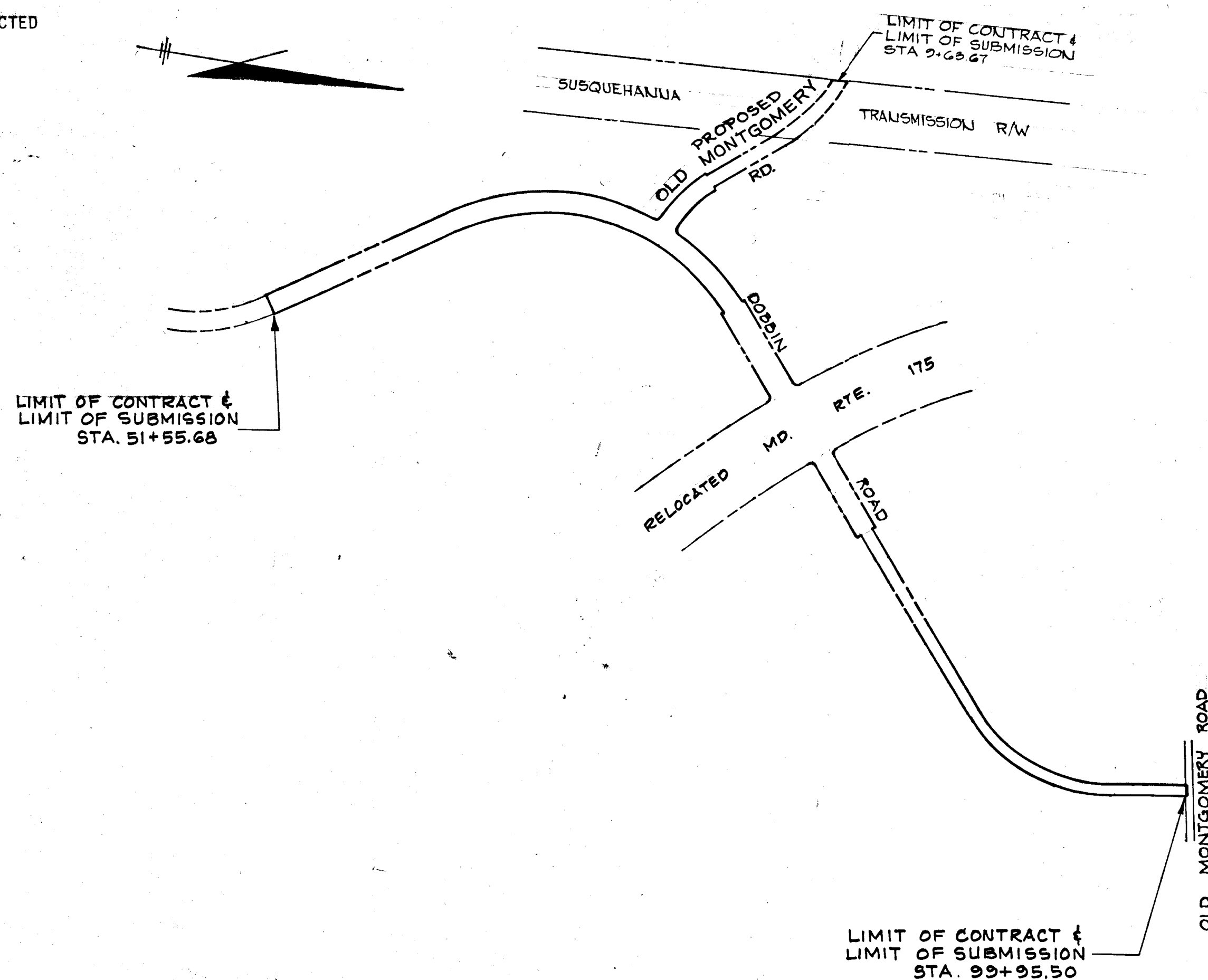
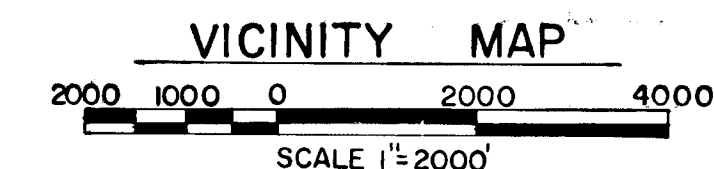
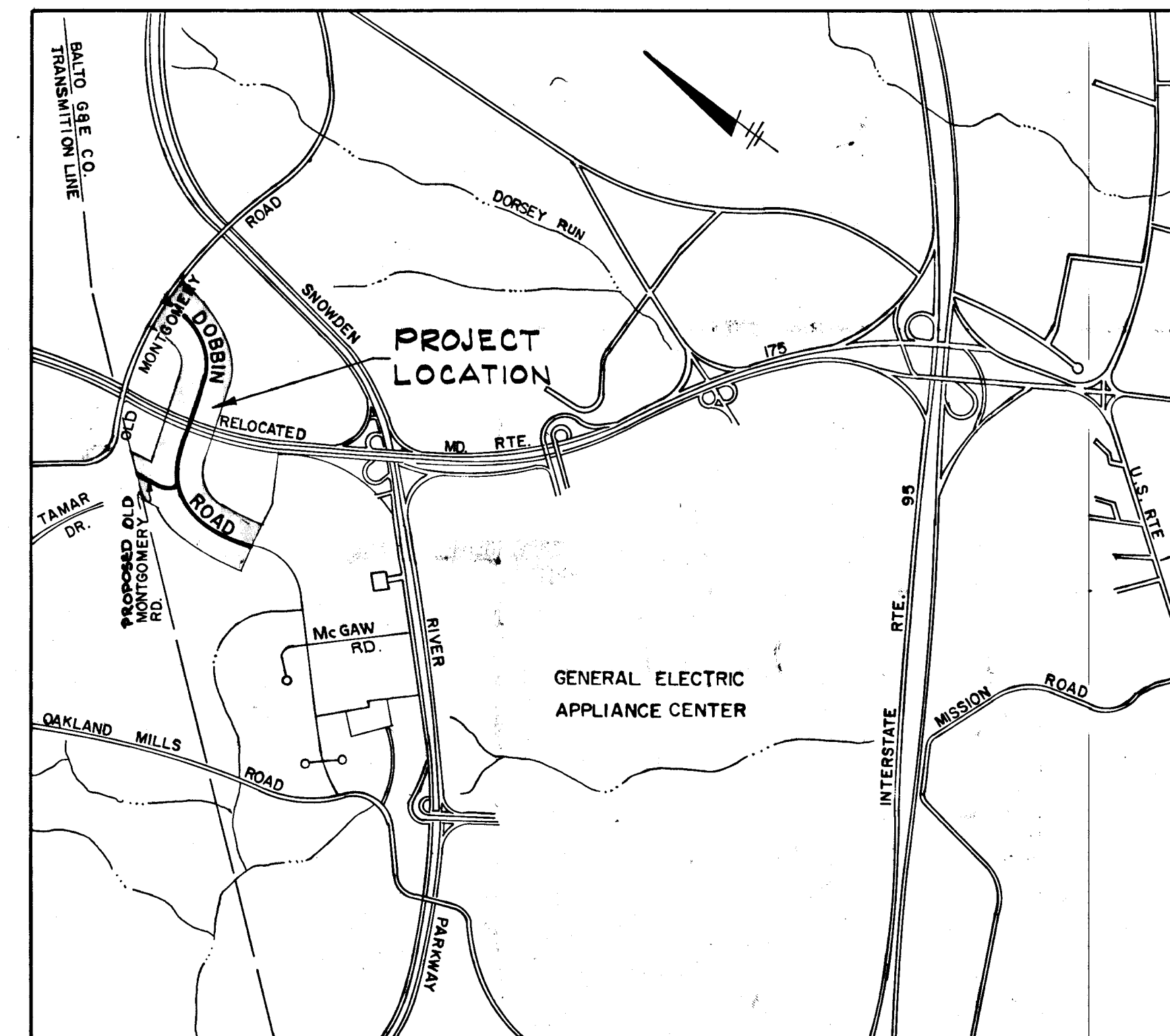
HOWARD COUNTY, MARYLAND  
6<sup>TH</sup> ELECTION DISTRICT

## ROAD CONSTRUCTION PLANS

DOBBIN ROAD  
&  
PROPOSED OLD MONTGOMERY ROAD

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND



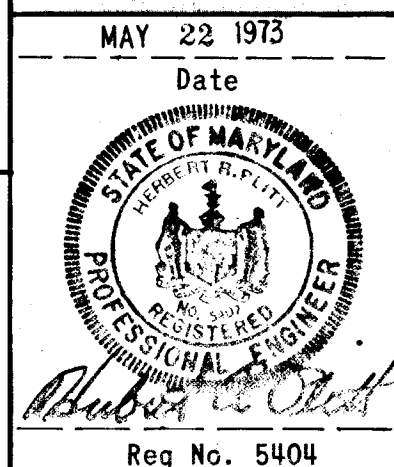
SCALE: 1" = 400'

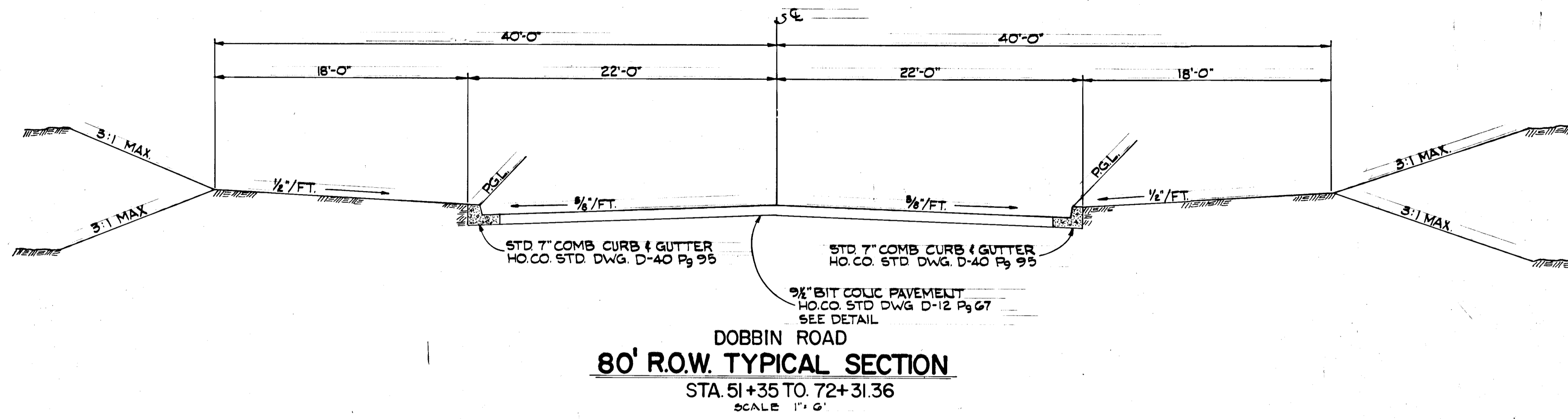
APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/30/73  
S/ [Signature]

DEPARTMENT OF PUBLIC WORKS  
*[Signature]* S-30-73  
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING  
*[Signature]* 5/30/73  
CHIEF, DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING

GREEN ASSOCIATES, INC.  
CONSULTING ENGINEERS  
32 WEST ROAD  
BALTIMORE, MARYLAND





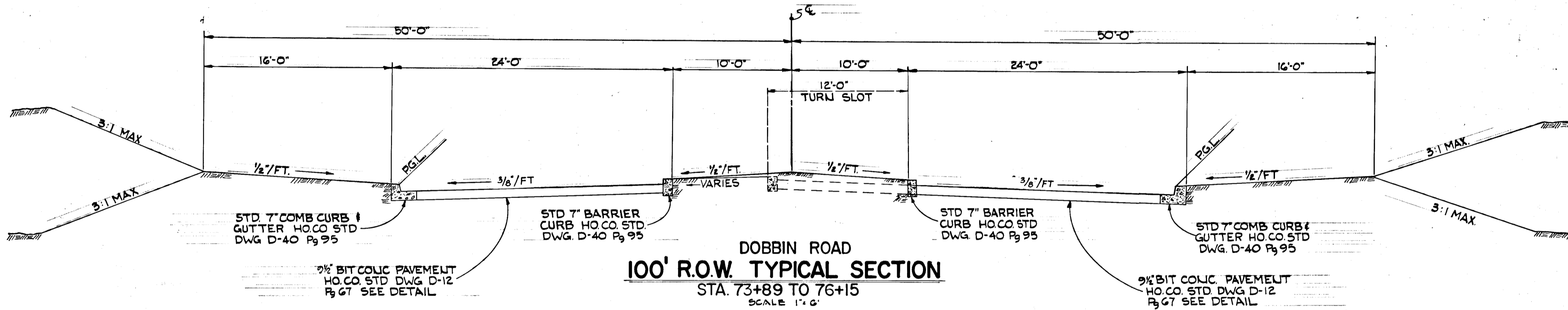
BITUMINOUS CONCRETE SURFACE	1 1/2" BAND C-3
BITUMINOUS CONCRETE BASE	5" (GRAVEL MIX)

CLEARING AND GRADING ARTICLE C-1  
 SUBGRADE ARTICLE C-2  
 BASE COURSE ARTICLE C-25  
 BINDER COURSE ARTICLE C-31 OR C-33  
 SURFACE COURSE ARTICLE C-31

TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS

**SECTION D-5**

NOTE:



APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/30/73  
*[Signature]*

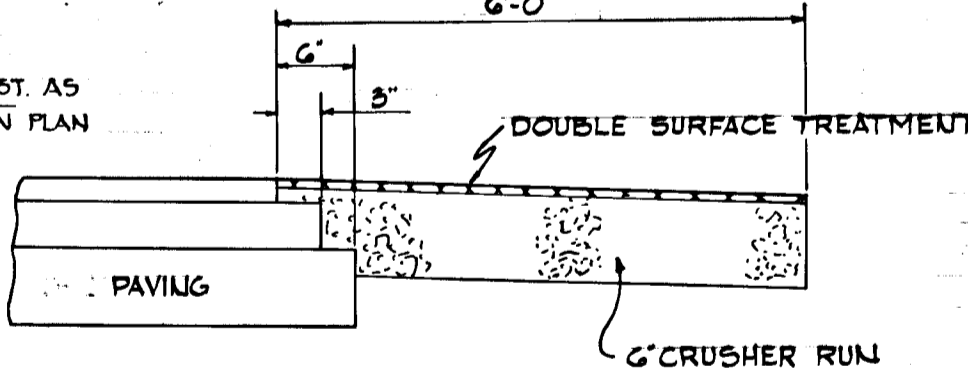
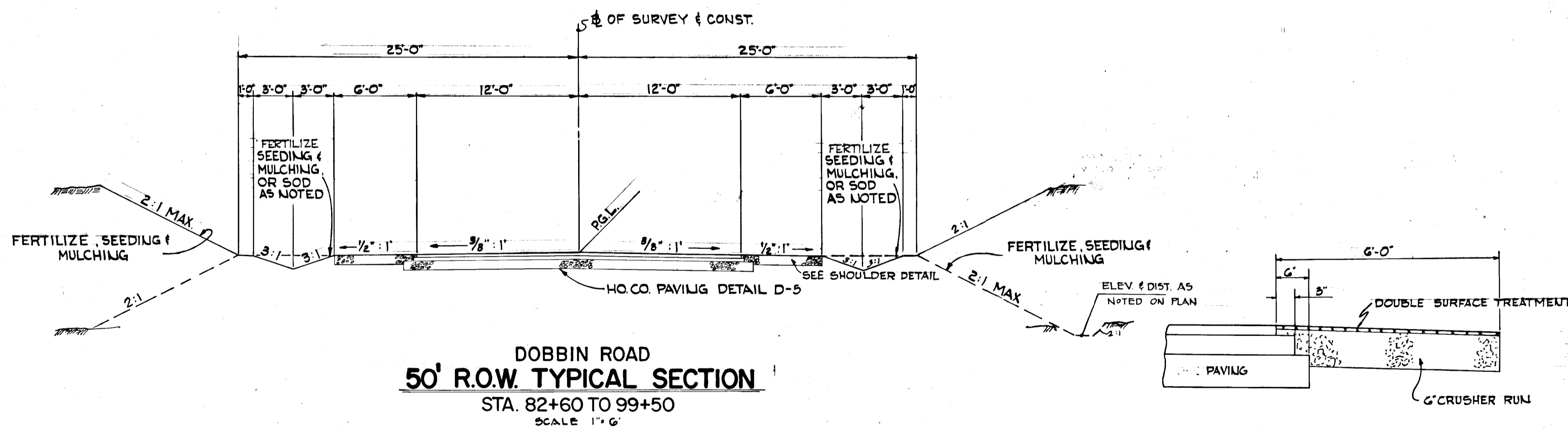
- NOTES:
1. BASE WILL BE PRIMED IN ACCORDANCE WITH C-30-3 AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
  2. TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE SURFACE	1 1/2" BAND C-3 FINAL PHASE
BITUMINOUS CONCRETE BINDER	5" BAND C-2
BITUMINOUS CONCRETE BASE	5" BAND C-2 OR C-3 FIRST PHASE

CLEARING AND GRADING ARTICLE C-1  
 SUBGRADE ARTICLE C-2  
 BASE COURSE ARTICLE C-31 OR C-33  
 BINDER COURSE ARTICLE C-31  
 SURFACE COURSE ARTICLE C-31

TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS

**SECTION D-12**



CLEARING AND GRADING ARTICLE C-1  
 SUBGRADE ARTICLE C-2  
 BASE COURSE ARTICLE C-31 OR C-33  
 BINDER COURSE ARTICLE C-31  
 SURFACE COURSE ARTICLE C-31

TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS

GREEN ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND

MAY 22 1973  
 Date  
 STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 Albert A. Orlitz  
 Reg. No. 5407

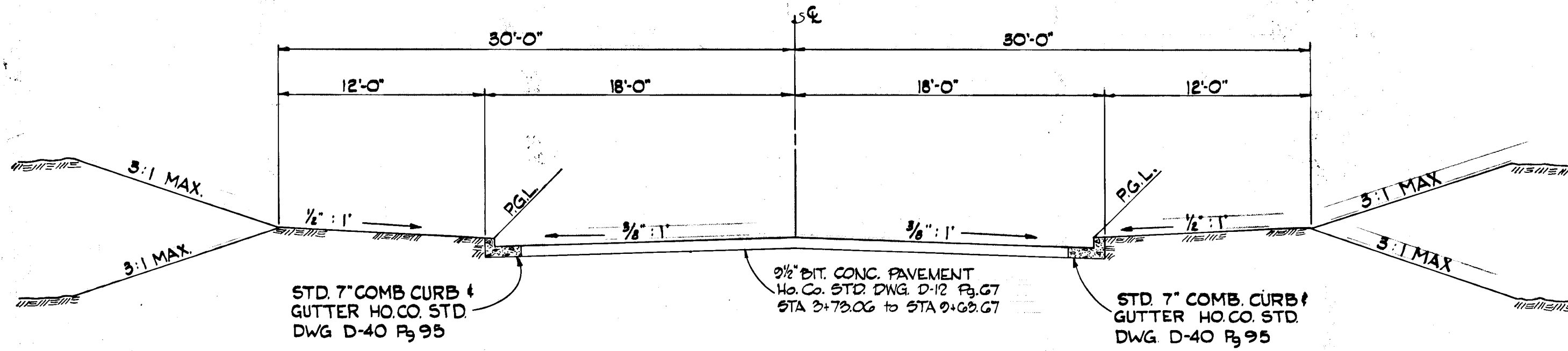
Rev. Date Rev. No. Revision Description  
**COLUMBIA**  
 MARYLAND  
 5TH ELECTION DISTRICT HOWARD COUNTY  
 HOWARD RESEARCH AND DEVELOPMENT CORP.

DEPARTMENT OF PUBLIC WORKS  
*W. O. Falbert* 5-30-73  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

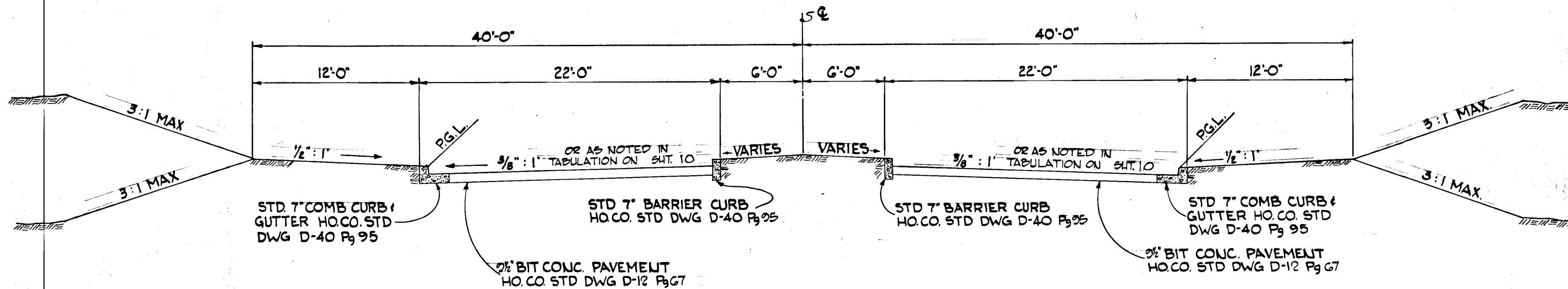
PROJECT AREA DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
 PROJECT TITLE TYPICAL SECTIONS & DETAILS  
 Des. By K.A.L. Scale AS SHOWN Date No. 2  
 Dwn. By J.D. Date MAY 22, 1973  
 Chk. By J.T.J. Approved

H136

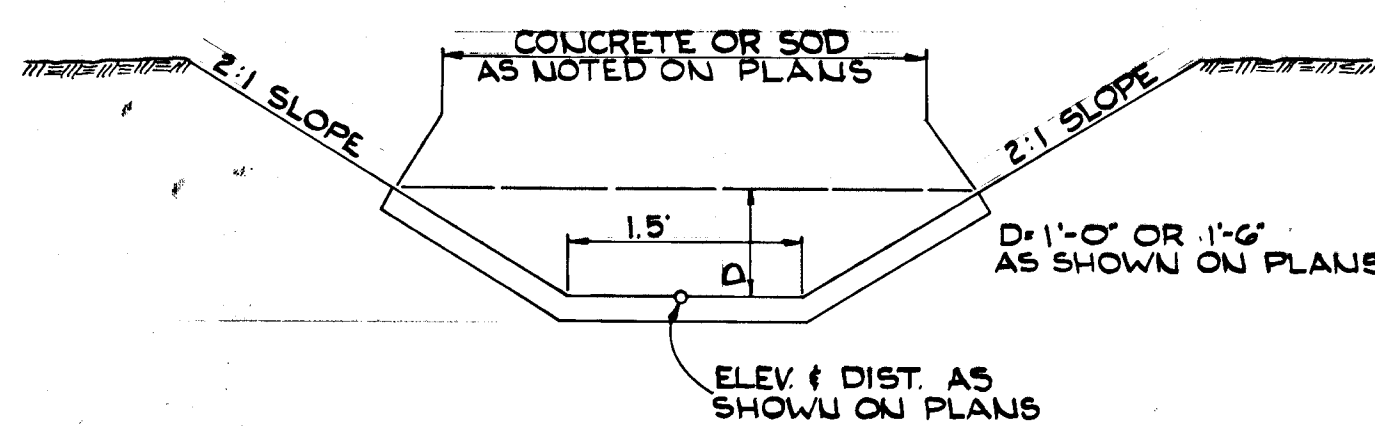
P-13-18C



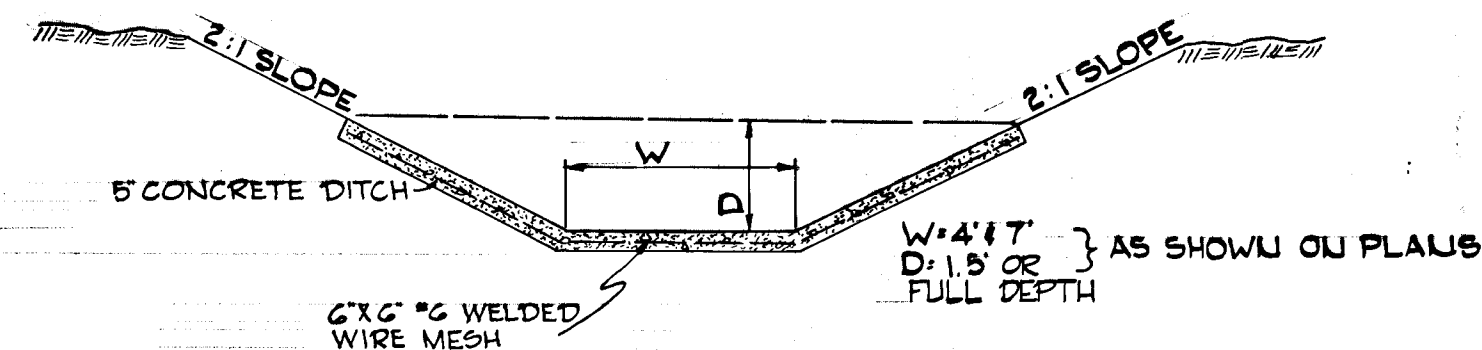
OLD MONTGOMERY RD.-PROP.  
STA 3+73.06 TO 9+63.67  
**60' R.O.W. TYPICAL SECTION**  
SCALE: 1"=6'



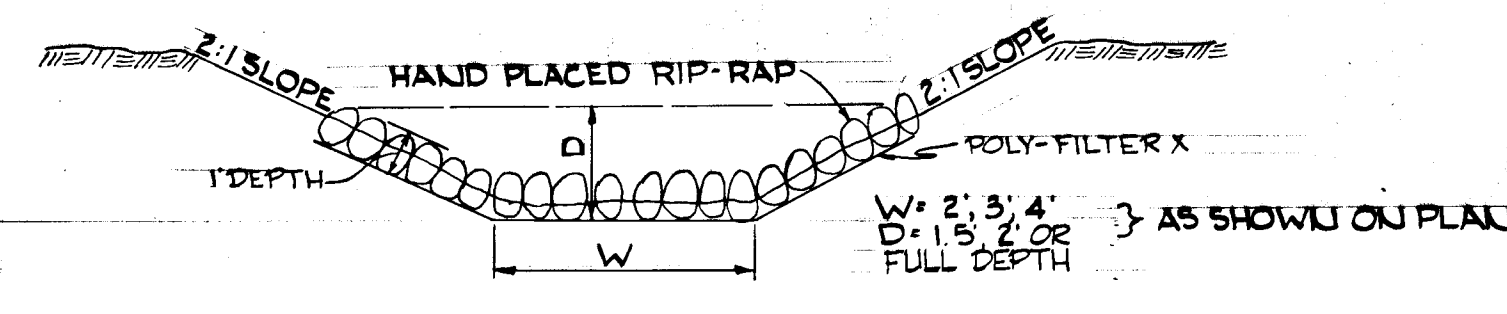
OLD MONTGOMERY RD.-PROP.  
STA 0+00 TO 3+73.06  
**80' R.O.W. TYPICAL SECTION**  
SCALE: 1"=6'



**15' SIDE & BERM DITCH DETAIL**  
NO SCALE

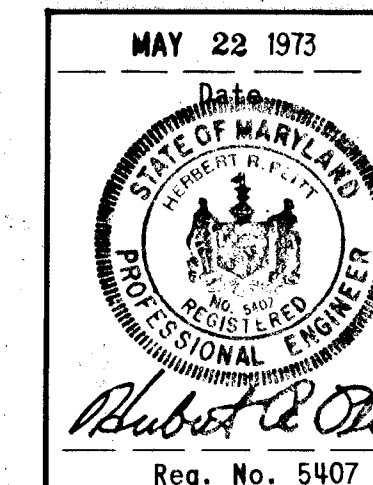


**CONCRETE INLET DITCH**  
NO SCALE



**RIP-RAP OUTLET DITCH**  
NO SCALE

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DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/30/73  
*J. J. J.*



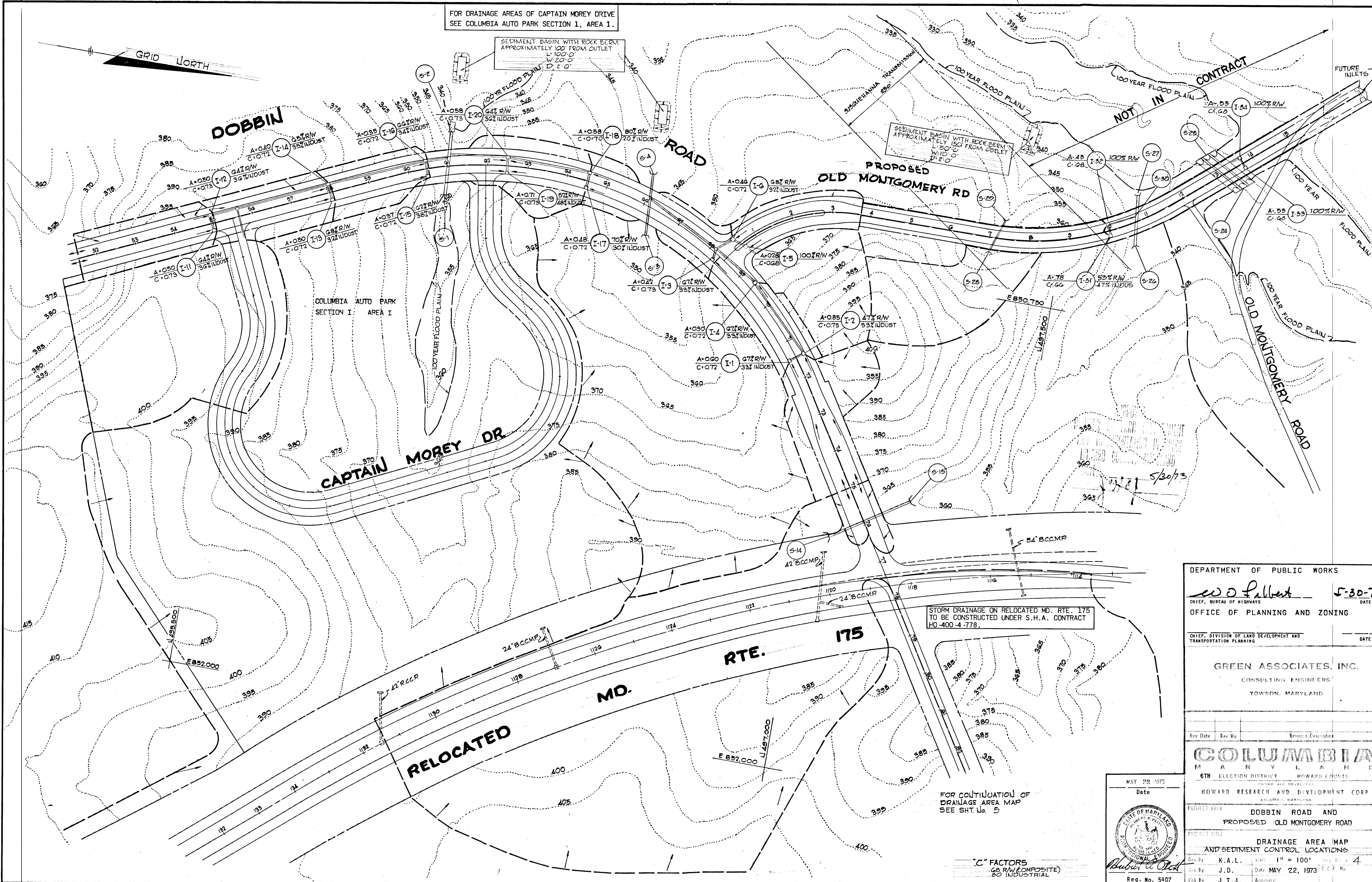
GREEN ASSOCIATES, INC. CONSULTING ENGINEERS BALTIMORE, MARYLAND	
Rev. Date	Rev. No.
<b>COLUMBIA</b> MARYLAND	
6TH ELECTION DISTRICT HOWARD COUNTY	
HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYLAND	
PROJECT AREA	DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD
PROJECT TITLE	TYPICAL SECTIONS & DETAILS
Des. By	K.A.L. Scale AS SHOWN
Drawn By	J.D. Date MAY 22, 1973
Checked By	J.T.J. Approved

DEPARTMENT OF PUBLIC WORKS  
*Robert C. O'Neil* 5-30-73  
CHIEF, BUREAU OF HIGHWAYS DATE  
OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

FOR DRAINAGE AREAS OF CAPTAIN MOREY DRIVE  
SEE COLUMBIA AUTO PARK SECTION 1, AREA 1.

SEDIMENT BASIN WITH ROCK BERM  
APPROXIMATELY 100' FROM OUTLET  
L=100'-0"  
W=20'-0"  
D=2'-0"

SEDIMENT BASIN WITH ROCK BERM  
APPROXIMATELY 150' FROM OUTLET  
L=150'-0"  
W=10'-0"  
D=2'-0"



STORM DRAINAGE ON RELOCATED MD. RTE. 175  
TO BE CONSTRUCTED UNDER S.H.A. CONTRACT  
HO 400-4-778.

FOR CONTINUATION OF  
DRAINAGE AREA MAP  
SEE SHT. No. 5

C FACTORS  
60% R/W (COMPOSITE)  
80% INDUSTRIAL

DEPARTMENT OF PUBLIC WORKS

*W. J. Pallett* 5-30-73  
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND  
TRANSPORTATION PLANNING DATE

GREEN ASSOCIATES, INC.  
CONSULTING ENGINEERS  
TOWSON, MARYLAND

Rev. Date	Rev. No.	Revision Description

**COLUMBIA**  
MARYLAND  
6TH ELECTION DISTRICT HOWARD COUNTY

HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND

PROJECT AREA DOBBIN ROAD AND  
PROPOSED OLD MONTGOMERY ROAD

PROJECT TITLE DRAINAGE AREA MAP  
AND SEDIMENT CONTROL LOCATIONS

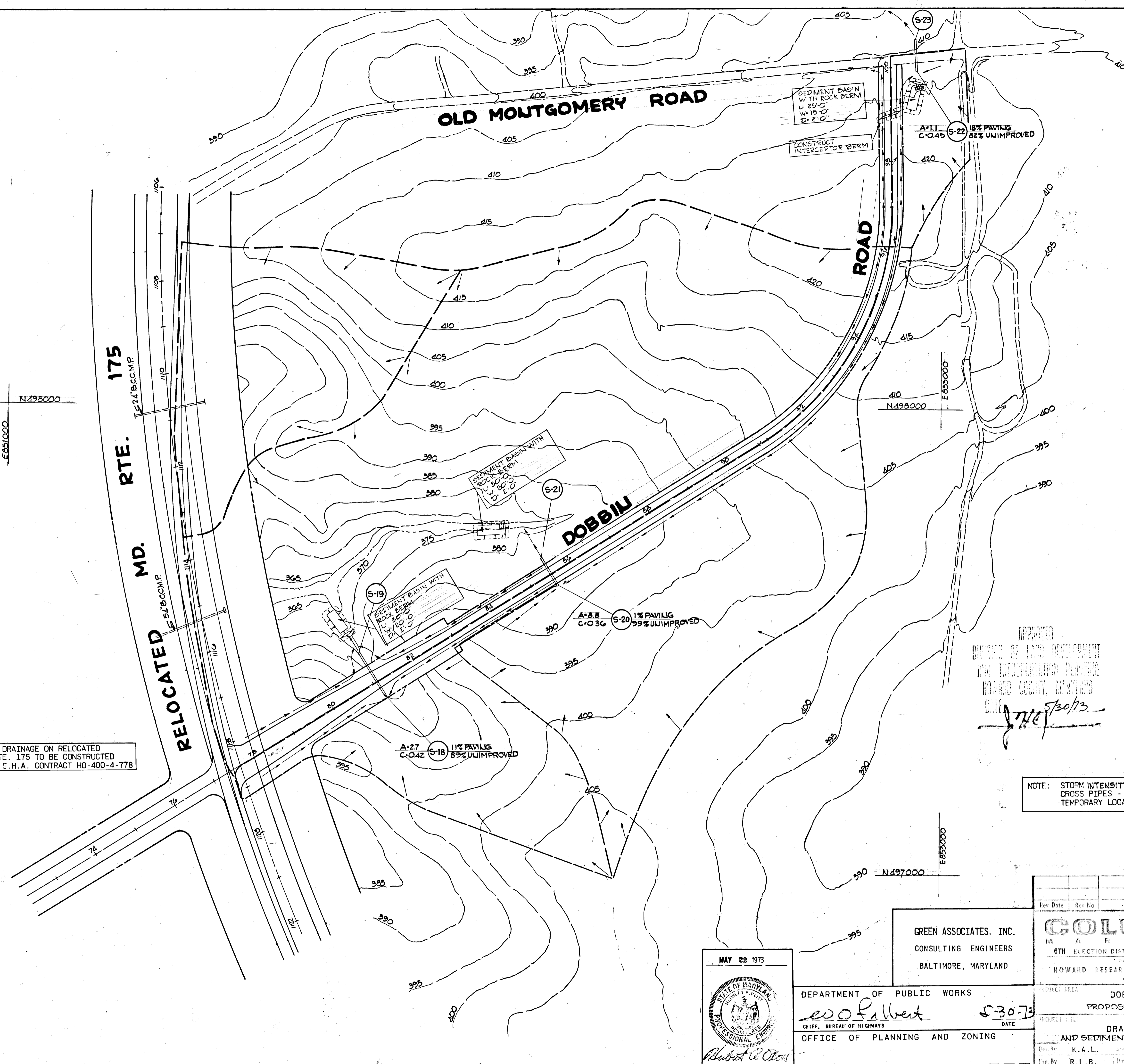
Des. By K.A.L. Scale 1" = 100' Map No. 4  
Dir. By J.D. Date MAY '22, 1973 C.C.P. No.  
Chk. By J.T.J. Approved

MAY 22 1973  
Date

Reg. No. 5407

GRID NORTH

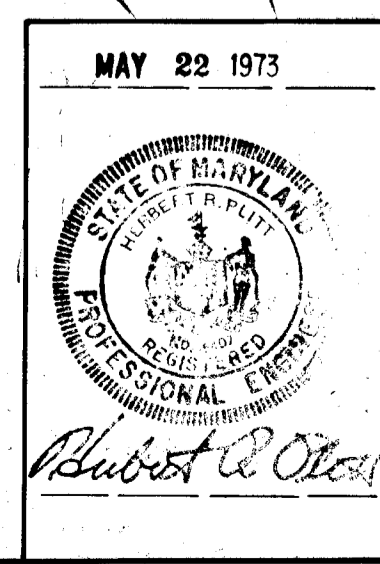
STORM DRAINAGE ON RELOCATED MD. RTE. 175 TO BE CONSTRUCTED UNDER S.H.A. CONTRACT HO-400-4-778



APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/30/73

NOTE: STORM INTENSITY OF 10 YR. USED FOR CROSS PIPES - THIS AREA DUE TO TEMPORARY LOCATION OF DOBBIN ROAD.

GREEN ASSOCIATES, INC.  
CONSULTING ENGINEERS  
BALTIMORE, MARYLAND



MAY 22 1973  
DEPARTMENT OF PUBLIC WORKS  
evofalbert 5-30-73  
CHIEF, BUREAU OF HIGHWAYS  
OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

Rev. Date	Rev. No.	Revision Description

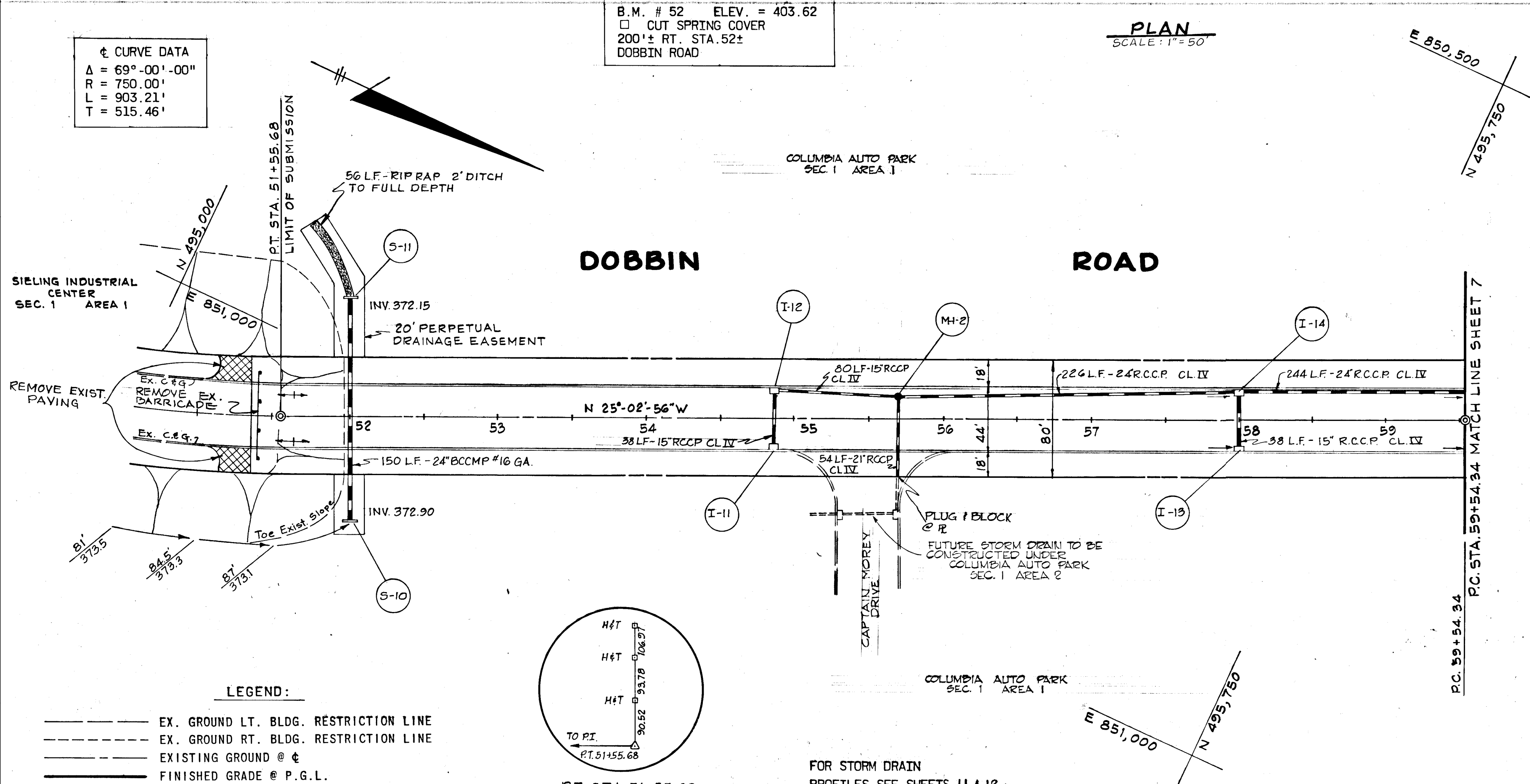
**COLUMBIA**  
MARYLAND  
6TH ELECTION DISTRICT HOWARD COUNTY  
HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND

PROJECT AREA: DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
PROJECT TITLE: DRAINAGE AREA MAP AND SEDIMENT CONTROL LOCATIONS  
Scale: 1" = 100'  
Des. By: K.A.L.  
Dwn. By: R.L.B.  
Chk. By: J.T.J.  
DATE: MAY 22, 1973  
Page: 5 of 5

€ CURVE DATA  
 Δ = 69°-00'-00"  
 R = 750.00'  
 L = 903.21'  
 T = 515.46'

B.M. # 52 ELEV. = 403.62  
 □ CUT SPRING COVER  
 200' ± RT. STA. 52±  
 DOBBIN ROAD

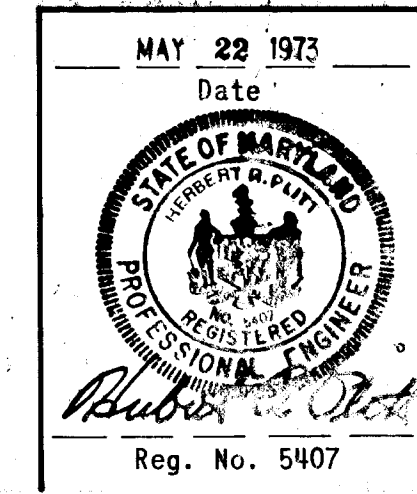
**PLAN**  
 SCALE: 1" = 50'



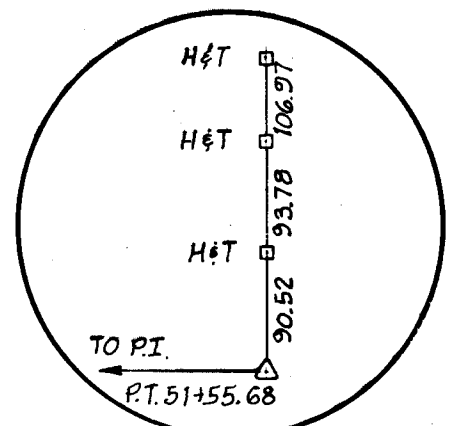
STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN.	INV. OUT.	T.C.P. ELEV.	REMARKS
I-11	DBL. 'S' COMB.	STA. 54+85 - 22' RT.	---	375.77	379.74	HO. CO. DWG. 99 PG. 154
I-12	DBL. 'S' COMB.	STA. 54+85 - 22' LT.	375.44	375.26	379.75	HO. CO. DWG. 99 PG. 154
I-13	DBL. 'S' COMB.	STA. 58+00 - 22' RT.	---	363.51	367.06	HO. CO. DWG. 99 PG. 154
I-14	DBL. 'S' COMB.	STA. 58+00 - 22' LT.	363.13	362.21	367.22	HO. CO. DWG. 99 PG. 154
S-10	ST'D. TYPE 'C' ENDWALL	STA. 52+00 - 70' RT.	375.07	---	375.05	HO. CO. DWG. 52 PG. 107
S-11	ST'D. TYPE 'C' ENDWALL	STA. 52+00 - 80' LT.	---	372.15	374.65	HO. CO. DWG. 52 PG. 107
MH-2	ST'D. MANHOLE	STA. 55+70 - 16' LT.	369.91	369.16	TOP 375.95	HO. CO. DWG. 103 PG. 158

NOTE: OFFSET DIMENSIONS TO INLETS ARE TO BACK OF CURB

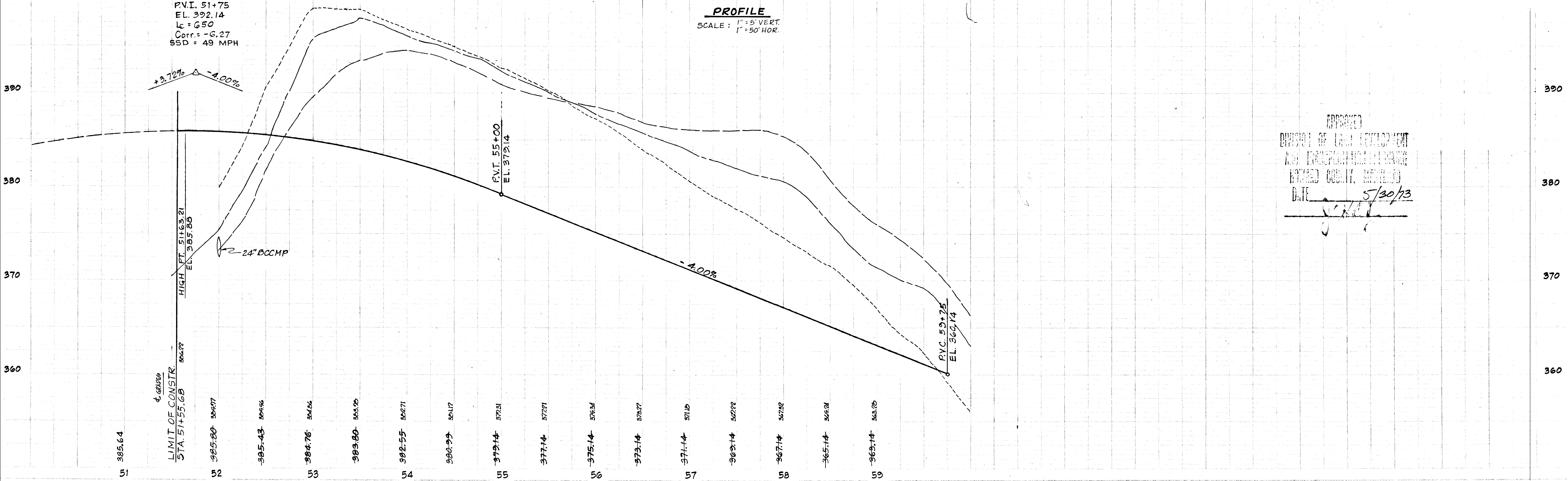
DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Highways  
 DATE 5-30-73  
 OFFICE OF PLANNING AND ZONING  
 Chief, Division of Land Development and Transportation Planning  
 DATE  
**GREEN ASSOCIATES, INC.**  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND  
 Rev. Date Rev. No. Revision Description  
**COLUMBIA**  
 MARYLAND  
 6TH ELECTION DISTRICT HOWARD COUNTY  
 OWNER AND DEVELOPER  
**HOWARD RESEARCH AND DEVELOPMENT CORP.**  
 COLUMBIA, MARYLAND  
 PROJECT AREA  
**DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD**  
 PROJECT TITLE  
**DOBBIN ROAD STA. 51+55.68 TO STA. 59+54.34**  
 Des. By K.A.L. Scale 1" = 50' Draw. No. G  
 Iss. By R.L.B. Date MAY 22, 1973 C.T.F. No.  
 Chk. By J.T.J. Approved



**LEGEND:**  
 --- EX. GROUND LT. BLDG. RESTRICTION LINE  
 --- EX. GROUND RT. BLDG. RESTRICTION LINE  
 --- EXISTING GROUND @ €  
 --- FINISHED GRADE @ P.G.L.

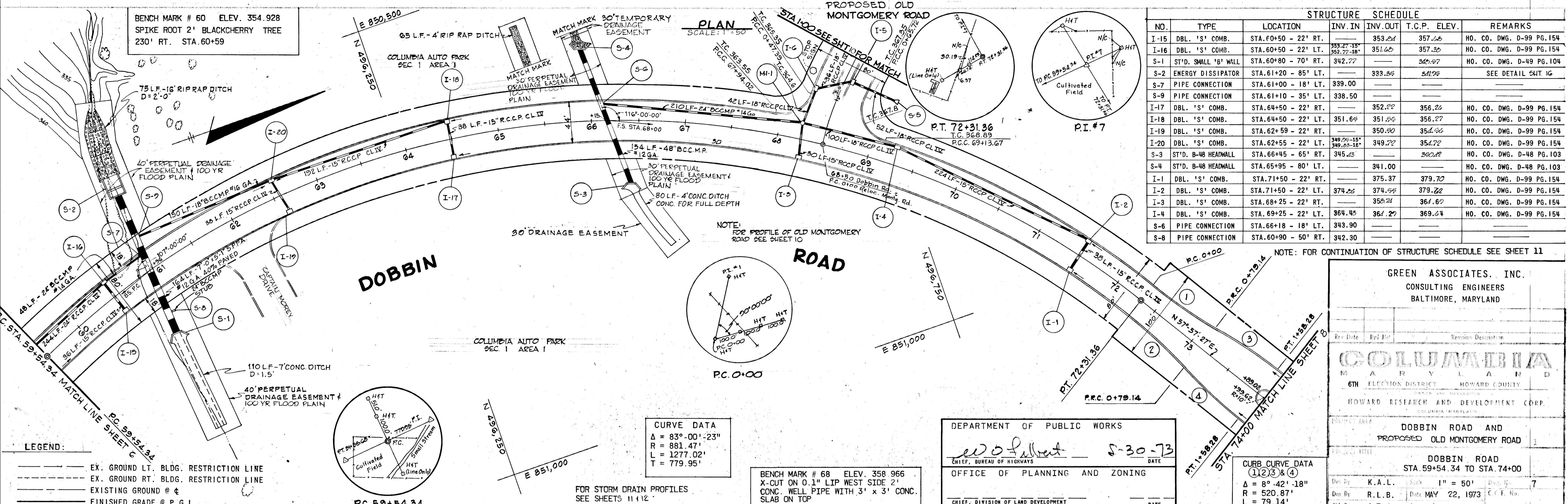


**PROFILE**  
 SCALE: 1" = 5 VERT.  
 1" = 50 HOR.



APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/30/73  
 J.T.J.

BENCH MARK # 60 ELEV. 354.928  
SPIKE ROOT 2' BLACKCHERRY TREE  
230' RT. STA. 60+59



STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
I-15	DBL. 'S' COMB.	STA. 60+50 - 22' RT.	353.24	357.68		HO. CO. DWG. D-99 PG. 154
I-16	DBL. 'S' COMB.	STA. 60+50 - 22' LT.	353.27-15' 352.77-18'	351.65	357.30	HO. CO. DWG. D-99 PG. 154
S-1	ST'D. SMALL 'B' WALL	STA. 60+80 - 70' RT.	342.77		342.67	HO. CO. DWG. D-49 PG. 104
S-2	ENERGY DISSIPATOR	STA. 61+20 - 85' LT.		333.35	341.98	SEE DETAIL SHT IG
S-7	PIPE CONNECTION	STA. 61+00 - 18' LT.	339.00			
S-9	PIPE CONNECTION	STA. 61+10 - 35' LT.	338.50			
I-17	DBL. 'S' COMB.	STA. 64+50 - 22' RT.		352.22	356.26	HO. CO. DWG. D-99 PG. 154
I-18	DBL. 'S' COMB.	STA. 64+50 - 22' LT.	351.65	351.85	356.27	HO. CO. DWG. D-99 PG. 154
I-19	DBL. 'S' COMB.	STA. 62+59 - 22' RT.		350.80	354.36	HO. CO. DWG. D-99 PG. 154
I-20	DBL. 'S' COMB.	STA. 62+55 - 22' LT.	349.75-15' 349.65-18'	349.72	354.72	HO. CO. DWG. D-99 PG. 154
S-3	ST'D. B-48 HEADWALL	STA. 66+45 - 65' RT.	345.25		349.22	HO. CO. DWG. D-48 PG. 103
S-4	ST'D. B-48 HEADWALL	STA. 65+95 - 80' LT.		341.00		HO. CO. DWG. D-48 PG. 103
I-1	DBL. 'S' COMB.	STA. 71+50 - 22' RT.		375.37	379.70	HO. CO. DWG. D-99 PG. 154
I-2	DBL. 'S' COMB.	STA. 71+50 - 22' LT.	374.25	374.55	379.22	HO. CO. DWG. D-99 PG. 154
I-3	DBL. 'S' COMB.	STA. 68+25 - 22' RT.		358.24	361.62	HO. CO. DWG. D-99 PG. 154
I-4	DBL. 'S' COMB.	STA. 69+25 - 22' LT.	364.45	364.27	369.64	HO. CO. DWG. D-99 PG. 154
S-6	PIPE CONNECTION	STA. 66+18 - 18' LT.	343.90			
S-8	PIPE CONNECTION	STA. 60+90 - 50' RT.	342.30			

**LEGEND:**  
 --- EX. GROUND LT. BLDG. RESTRICTION LINE  
 - - - EX. GROUND RT. BLDG. RESTRICTION LINE  
 --- EXISTING GROUND @ ±  
 --- FINISHED GRADE @ P.G.L.

**CURVE DATA**  
 Δ = 83°-00'-23"  
 R = 881.47'  
 L = 1277.02'  
 T = 779.95'

BENCH MARK # 68 ELEV. 358.966  
 X-CUT ON 0.1" LIP WEST SIDE 2'  
 CONC. WELL PIPE WITH 3' x 3' CONC.  
 SLAB ON TOP  
 285' RT. STA. 68+36

DEPARTMENT OF PUBLIC WORKS  
 CHIEF, BUREAU OF HIGHWAYS  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
 DATE: 5-30-73

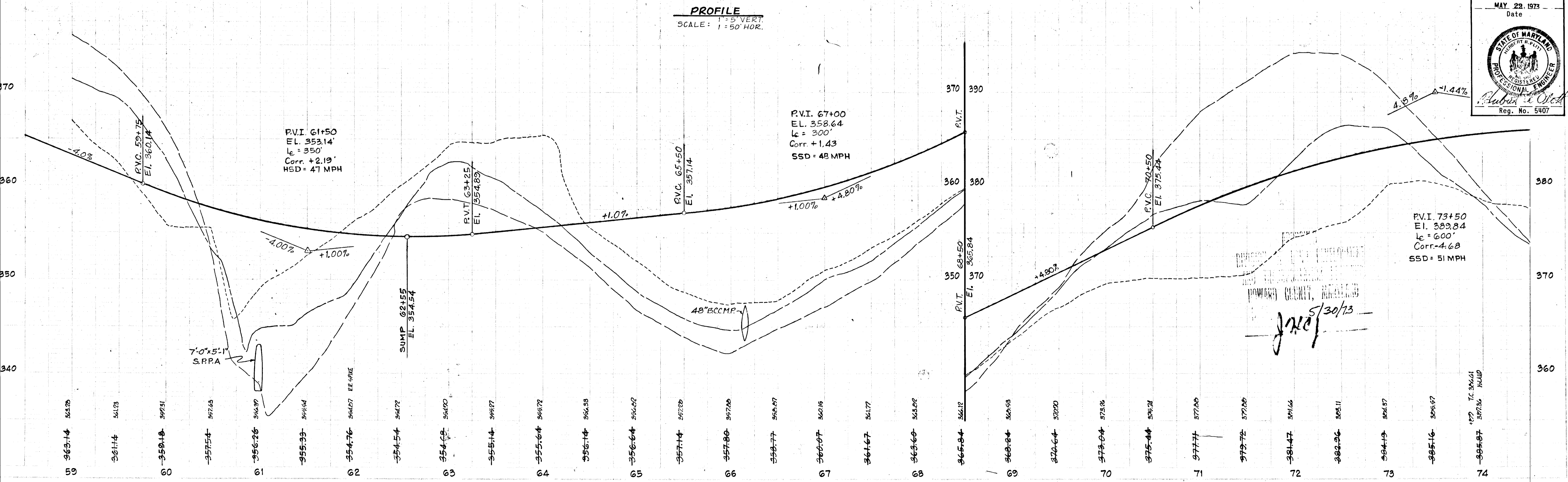
**CURB CURVE DATA**  
 ① ② ③ ④  
 Δ = 8°-42'-18"  
 R = 520.87'  
 L = 79.14'  
 T = 39.64'

GREEN ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND

COLUMBIA MARYLAND  
 6TH ELECTION DISTRICT HOWARD COUNTY  
 HOWARD RESEARCH AND DEVELOPMENT CORP.

DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
 DOBBIN ROAD STA. 59+54.34 TO STA. 74+00

By: K.A.L. Scale: 1" = 50' Date: MAY 22, 1973  
 Des: R.L.B. Date: MAY 22, 1973  
 CM: J.T.J.



MAY 22, 1973  
 Date

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 Reg. No. 5407

**CURVE DATA**  
 # (1) & (2)  
 $\Delta = 135^\circ 57' 30''$   
 $R = 100.00'$   
 $T = 17.53'$   
 $L = 34.83'$

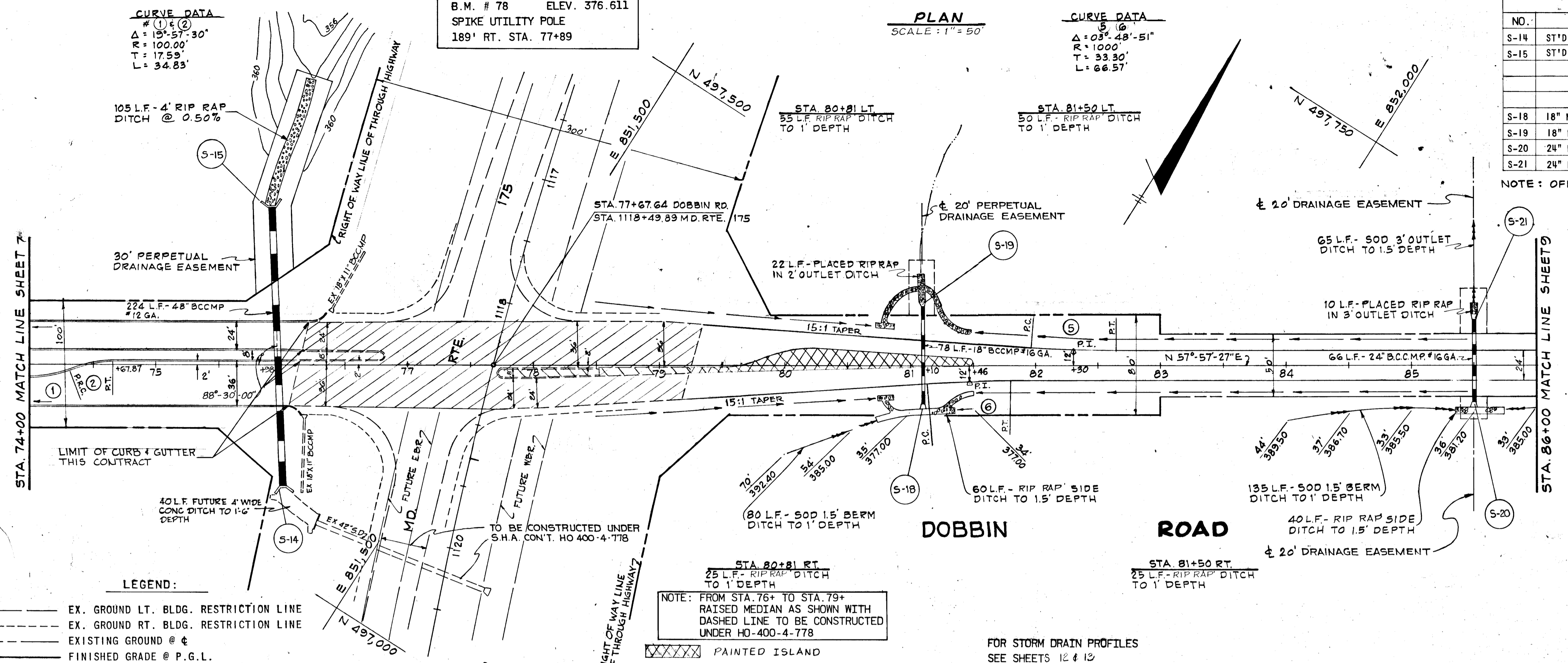
B.M. # 78 ELEV. 376.611  
 SPIKE UTILITY POLE  
 189' RT. STA. 77+89

**PLAN**  
 SCALE: 1" = 50'

**CURVE DATA**  
 # 5  
 $\Delta = 03^\circ 48' 51''$   
 $R = 1000'$   
 $T = 33.30'$   
 $L = 66.57'$

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
S-14	ST'D. B-48	STA. 76+00 - 96' RT.	367.01		372.11	HO. CO. DWG. D-48 PG. 103
S-15	ST'D. B-48	STA. 75+92 - 124' LT.		358.24	363.04	HO. CO. DWG. D-48 PG. 103
S-18	18" METAL END SEC.	STA. 81+10 - 30' RT.	372.11			M.S.H.A. ST'D. NO. 370.01
S-19	18" METAL END SEC.	STA. 81+10 - 50' LT.		371.30		M.S.H.A. ST'D. NO. 370.01
S-20	24" METAL END SEC.	STA. 85+50 - 30' RT.	381.17			M.S.H.A. ST'D. NO. 370.01
S-21	24" METAL END SEC.	STA. 85+50 - 36' LT.		380.00		M.S.H.A. ST'D. NO. 370.01

NOTE: OFFSET DIMENSIONS TO INLETS ARE TO BACK OF CURB



DEPARTMENT OF PUBLIC WORKS  
*Edward P. Sabat* 5-30-73  
 CHIEF, BUREAU OF HIGHWAYS DATE

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

GREEN ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND

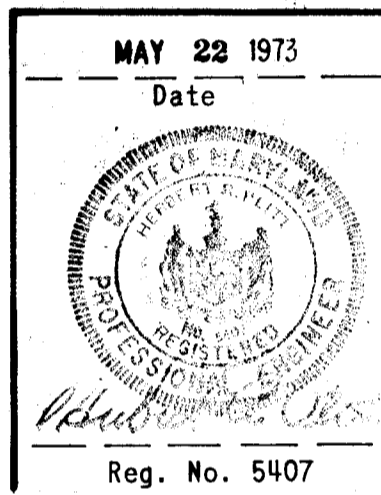
Rev. Date: Rev. No.: Revision Description:

**COLUMBIA**  
 MARYLAND  
 6TH ELECTION DISTRICT HOWARD COUNTY  
 HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT AREA: DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
 PROJECT TITLE: DOBBIN ROAD STA. 74+00 TO STA. 86+00

Des. By: K.A.L. Scale: 1" = 50' Des. No.: 8  
 Dia. By: R.L.B. Date: MAY 22, 1973 C.C.F. No.:  
 Chk. By: J.T.J. Approved:

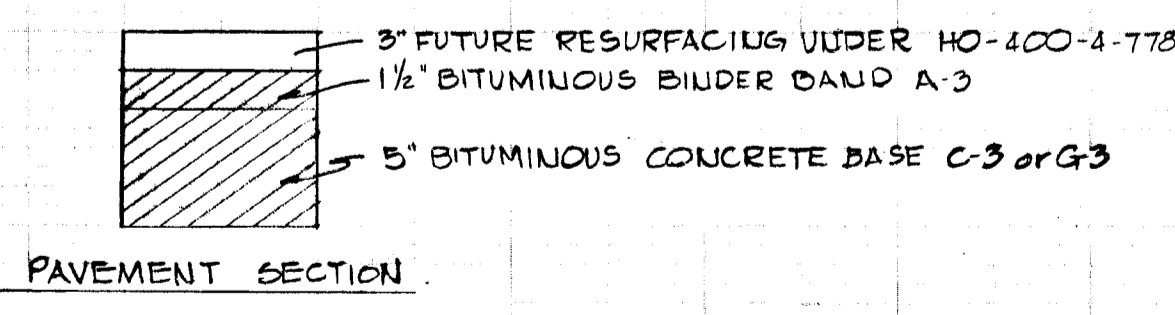
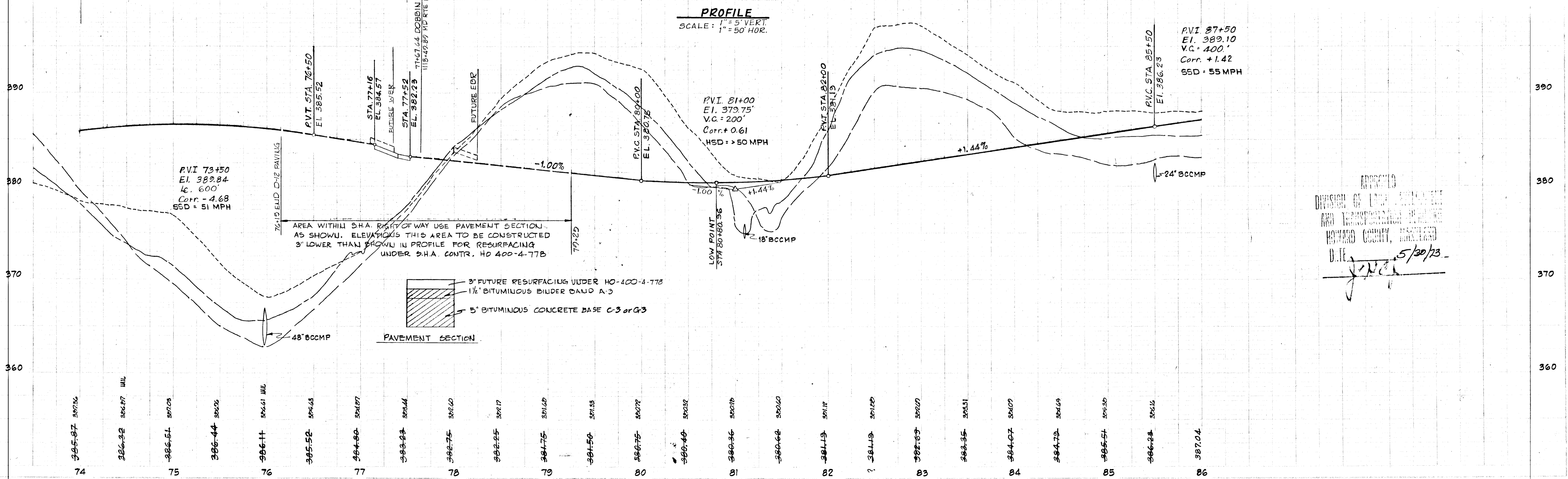
Reg. No. 5407



**LEGEND:**  
 --- EX. GROUND LT. BLDG. RESTRICTION LINE  
 --- EX. GROUND RT. BLDG. RESTRICTION LINE  
 --- EXISTING GROUND @ ±  
 --- FINISHED GRADE @ P.G.L.

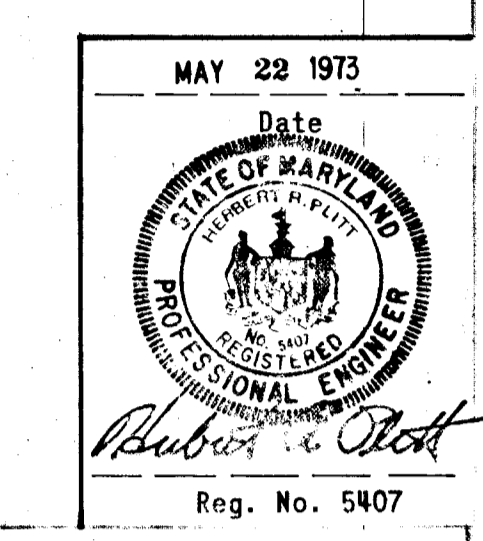
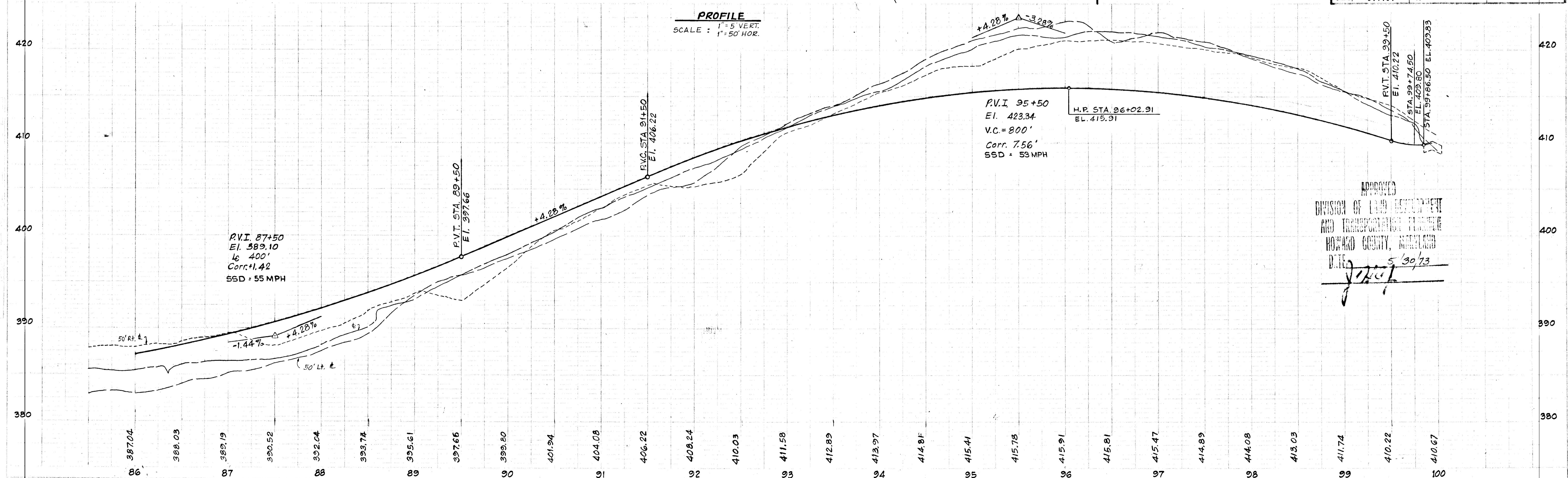
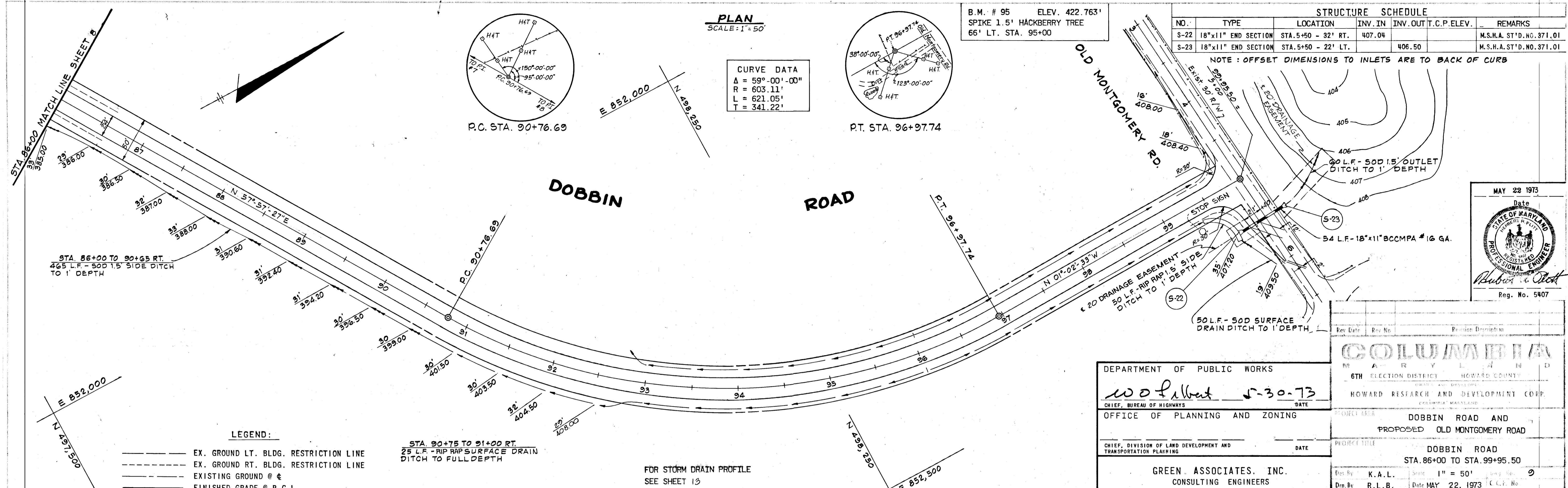
NOTE: FROM STA. 76+ TO STA. 79+ RAISED MEDIAN AS SHOWN WITH DASHED LINE TO BE CONSTRUCTED UNDER HO-400-4-778

**PROFILE**  
 SCALE: 1" = 5' VERT.  
 1" = 50' HORZ.



APPROVED  
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 D.T.E. *J.T.J.* 5/30/73



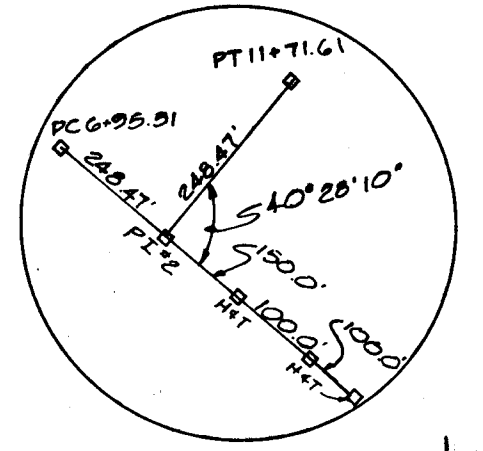
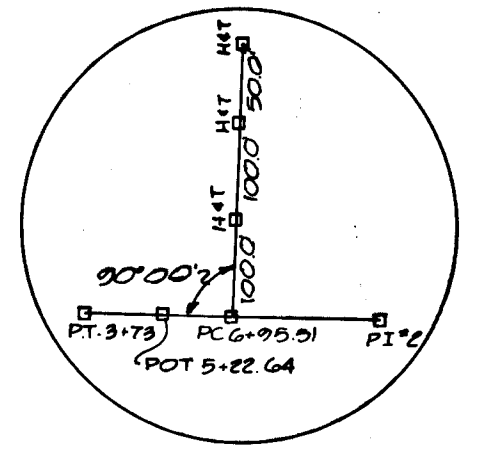
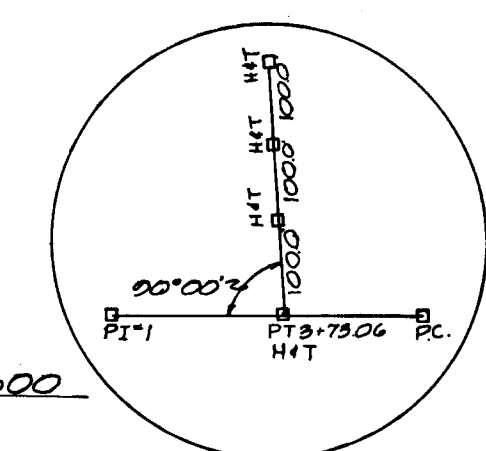
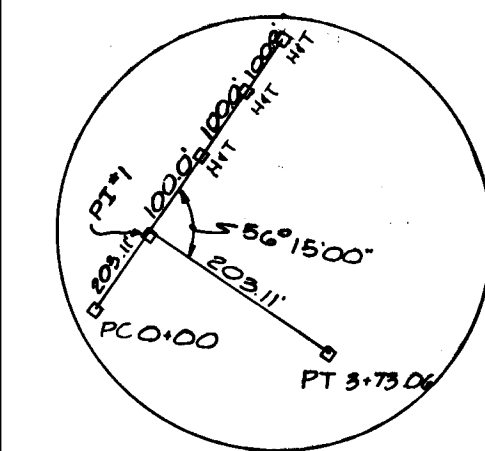


DEPARTMENT OF PUBLIC WORKS  
 w. l. b. 5-30-73  
 CHIEF, BUREAU OF HIGHWAYS  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
 GREEN ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND

Rev. No.	Rev. Date	Position	Description

6TH ELECTION DISTRICT HOWARD COUNTY  
 HOWARD RESEARCH AND DEVELOPMENT CORP.  
 PROJECT AREA: DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
 PROJECT TITLE: DOBBIN ROAD STA. 86+00 TO STA. 99+50

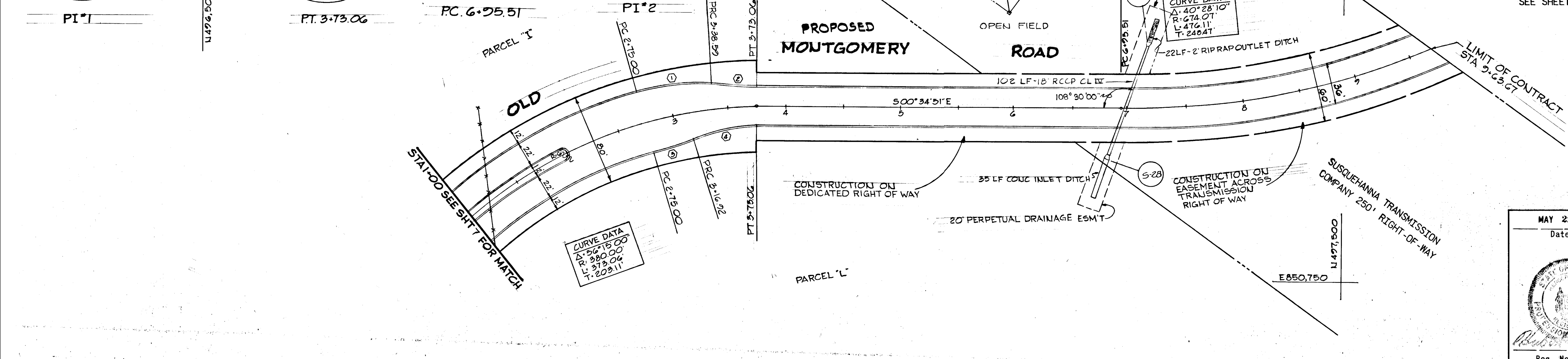
Prep. By: K.A.L. Scale: 1" = 50'  
 Des. By: R.L.B. Date: MAY 22, 1973  
 Chk. By: J.T.J. Approved



PLAN  
SCALE: 1"=50'

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
S-5	CONC. END SECTION	STA. 0+75 - 60' RT.	359.96			
I-5	DBL. 'S' COMB.	STA. 0+75 - 12' RT.	359.44	359.24	366.79	HO. CO. DWG. D-99, PG. 154
I-6	DBL. 'S' COMB.	STA. 0+56 - 28' LT.	358.88	358.68	365.50	HO. CO. DWG. D-99, PG. 154
MH-1	ST'D. MANHOLE	STA. 68+25 - 16' LT.	357.88	357.88	357.34	HO. CO. DWG. D-103, PG. 158
S-28	CONC. END SECTION	STA. 6+85 - 42' RT.	358.20			M.S.H.A. ST'D. NO. 368.01
S-29	CONC. END SECTION	STA. 7+25 - 55' LT.		353.10		M.S.H.A. ST'D. NO. 368.01

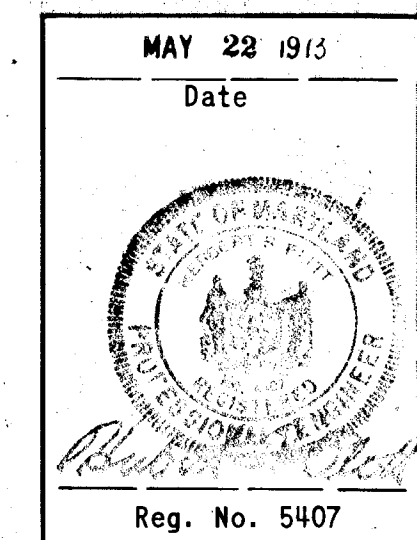
SEE SHEET 8 FOR PLAN VIEW OF S-5, I-5, I-6 & MH-1



**GREEN ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
TOWSON, MARYLAND

**COLUMBIA**  
MARYLAND  
6TH ELECTION DISTRICT HOWARD COUNTY  
HOWARD RESEARCH AND DEVELOPMENT CORP.

DATE: MAY 22 1973

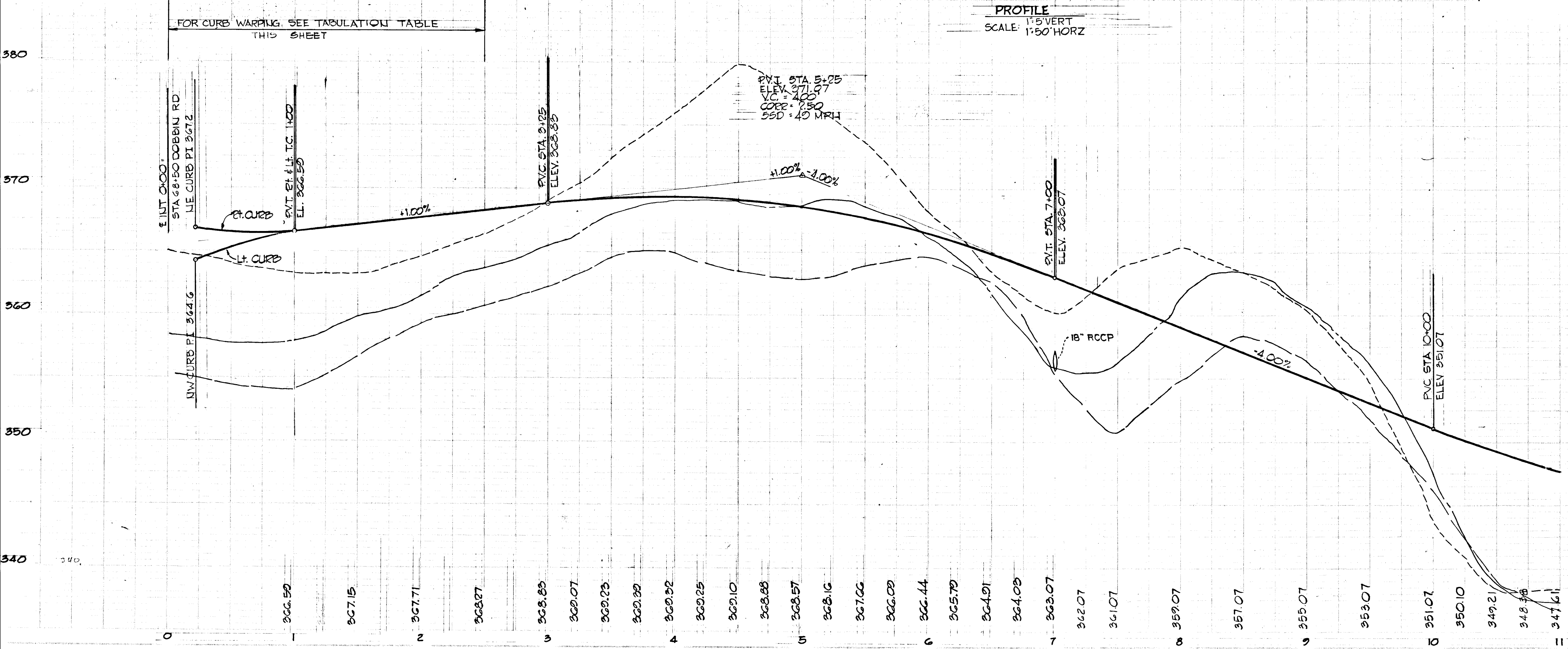


LEGEND	①	②	③	④
--- EXISTING GROUND 65' RT. OF €	<b>CURVE DATA</b> Δ = 20°-33'-12" R = 190.46' L = 68.32' T = 34.53' E = 3.11'	<b>CURVE DATA</b> Δ = 05°-46'-03" R = 362.00' L = 36.44' T = 18.23' E = 0.46'	<b>CURVE DATA</b> Δ = 06°-03'-06" R = 372.00' L = 39.29' T = 19.66' E = 0.52'	<b>CURVE DATA</b> Δ = 20°-50'-15" R = 147.43' L = 53.62' T = 27.11' E = 2.47'

FOR STORM DRAIN PROFILES  
SEE SHT 13

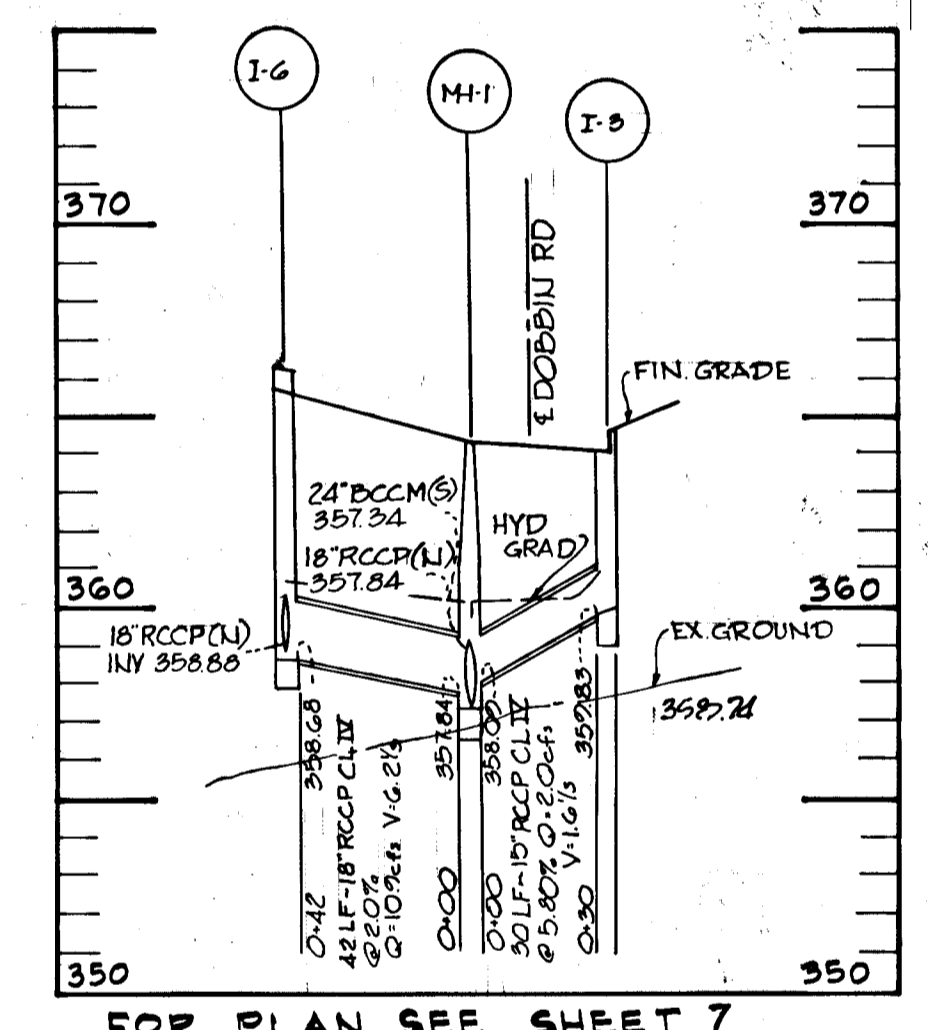
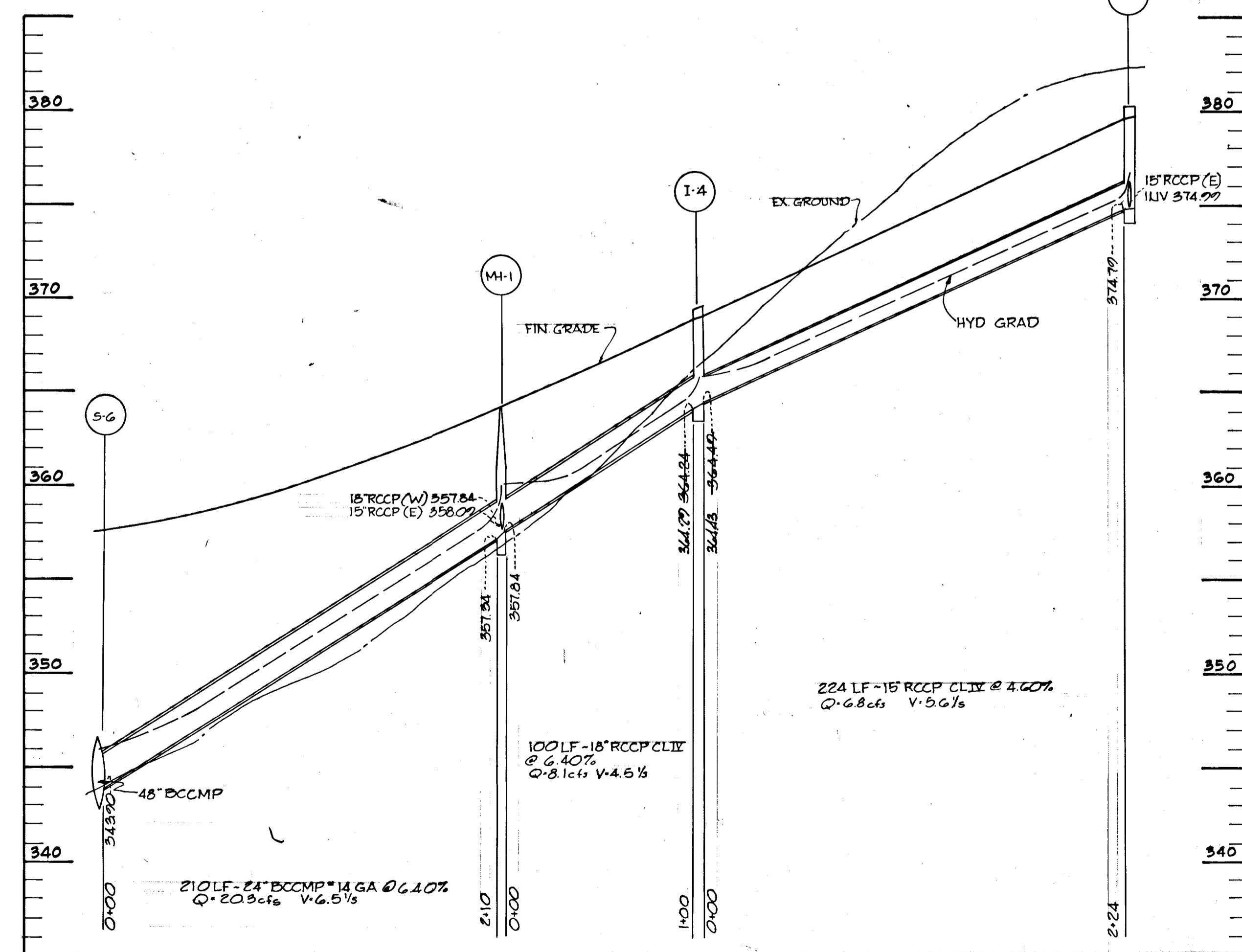
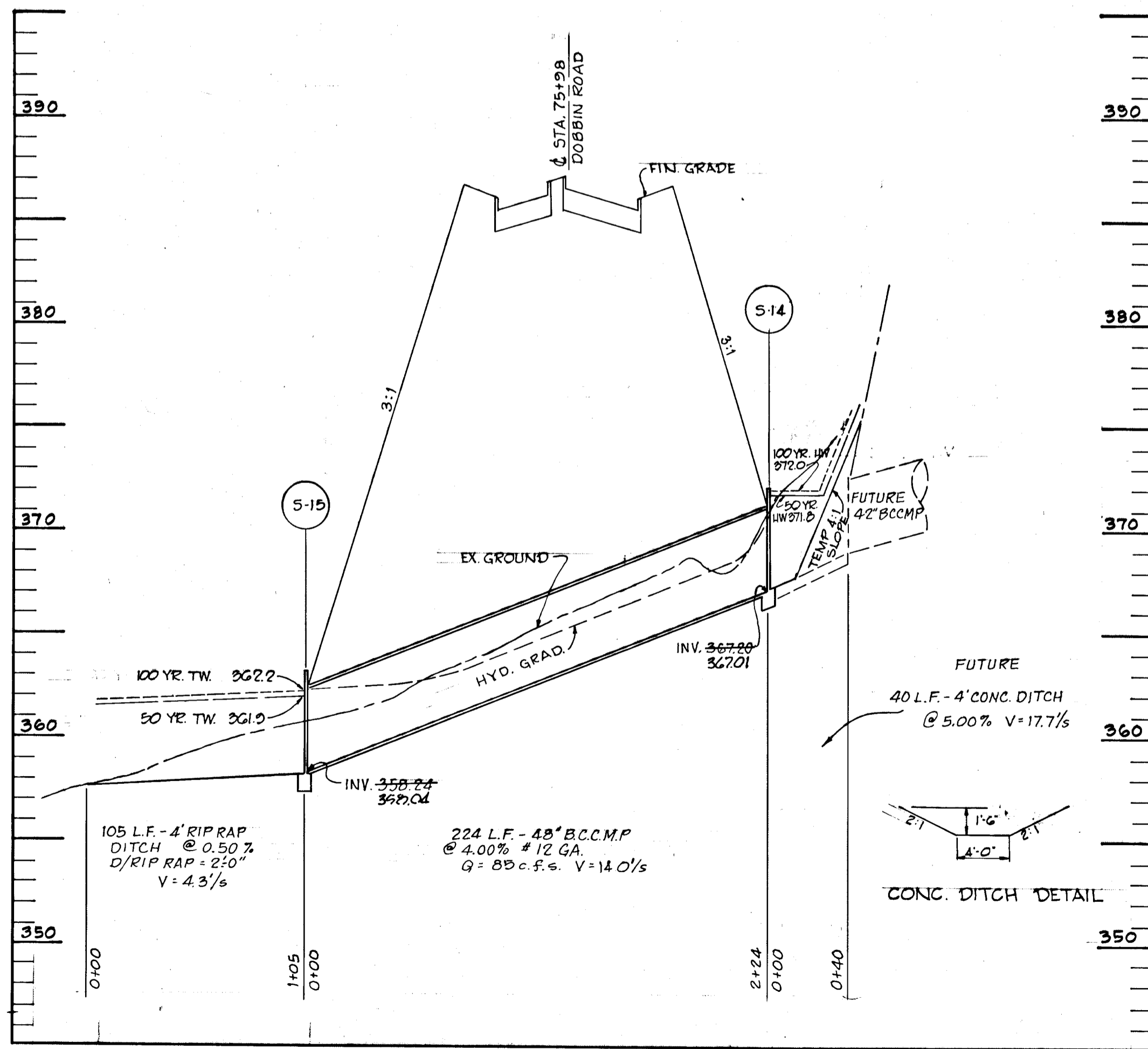
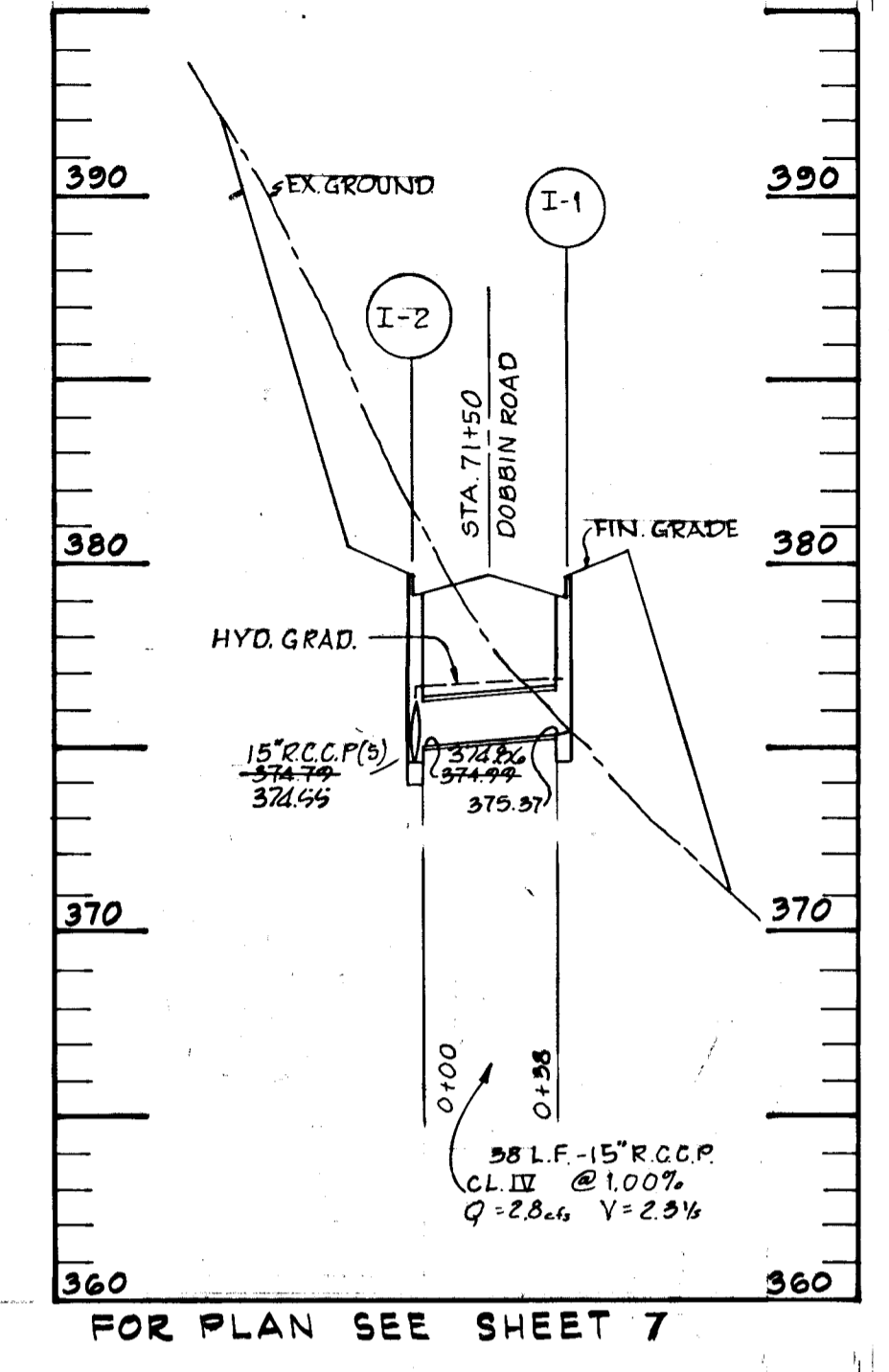
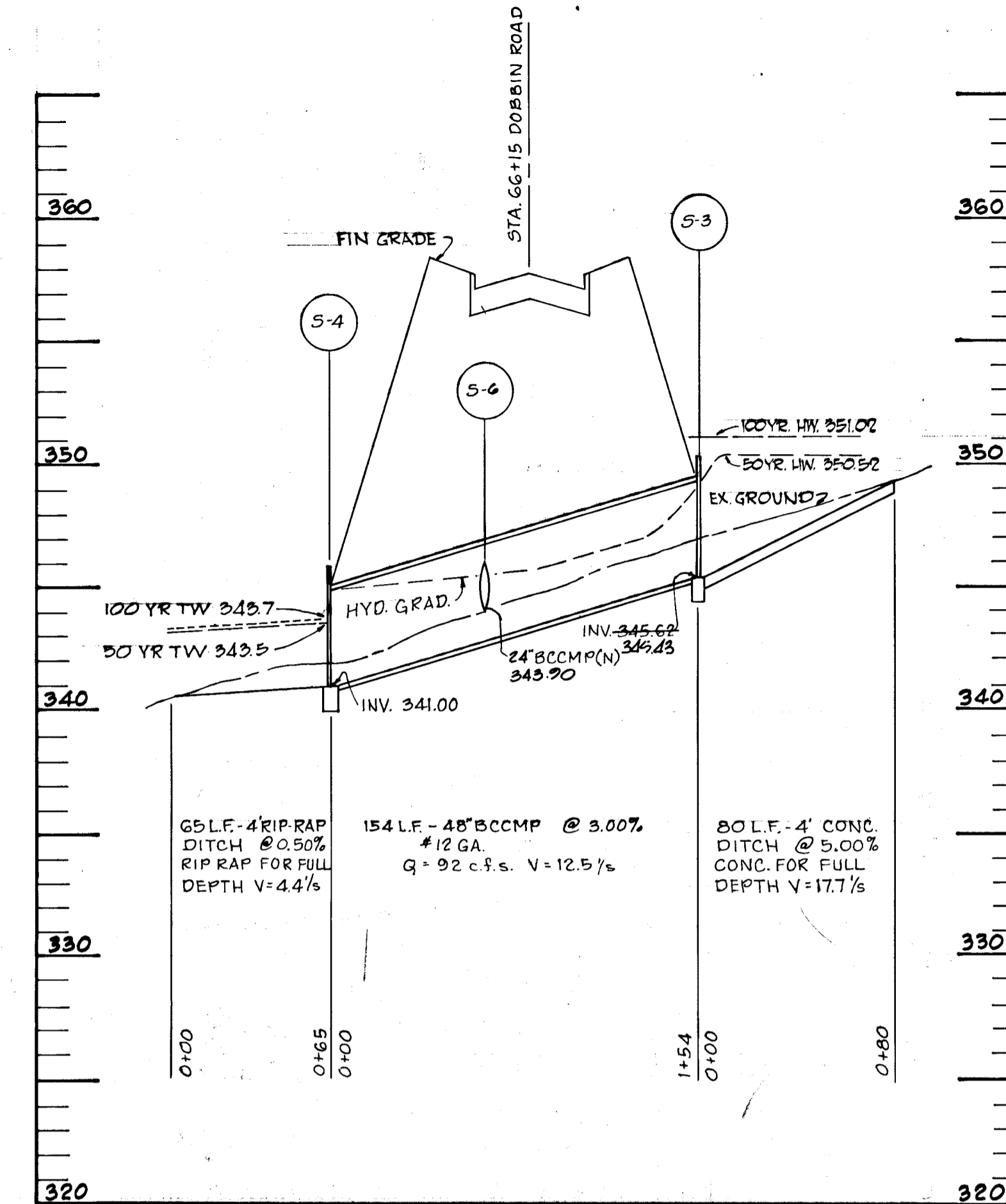
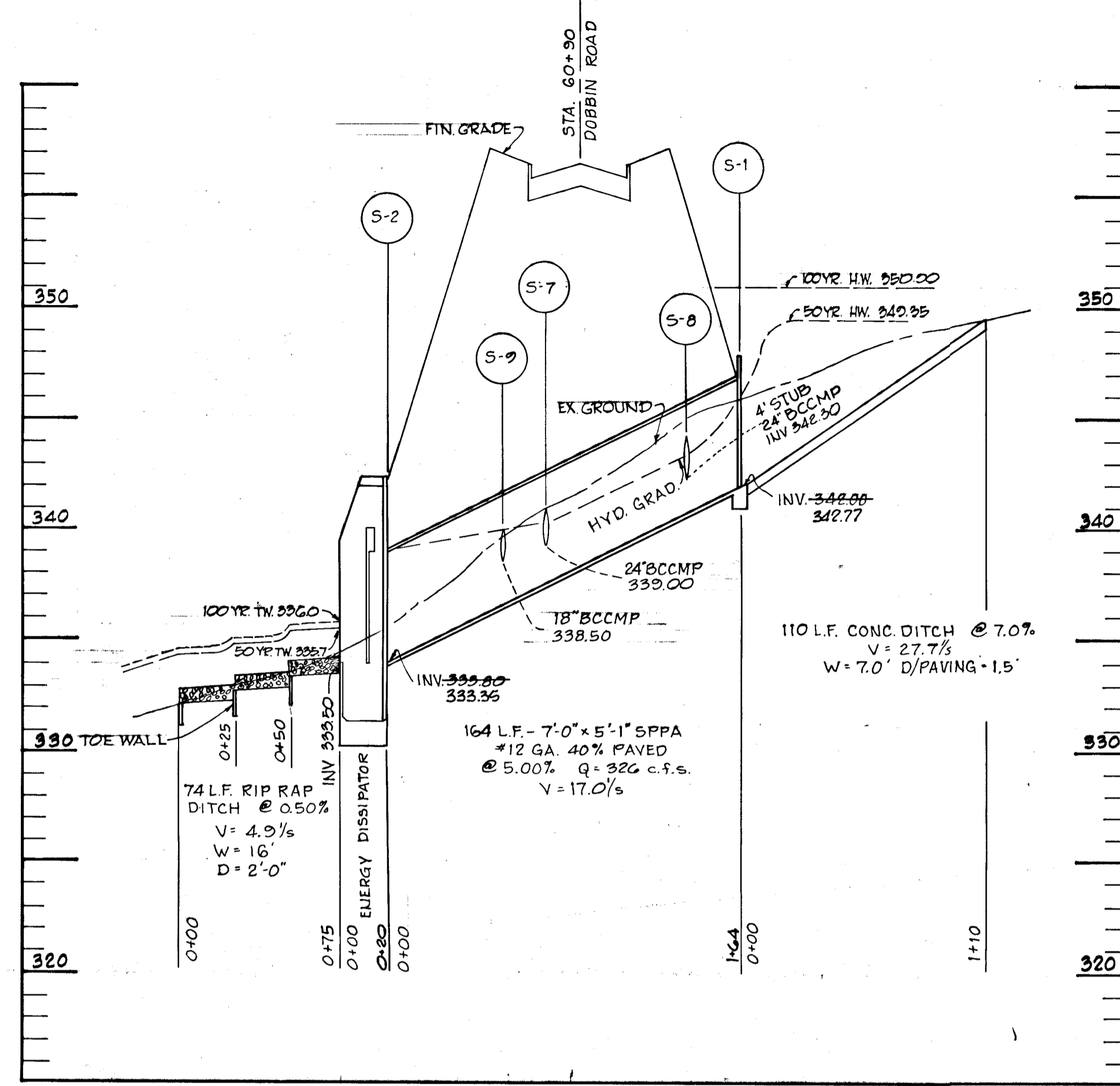
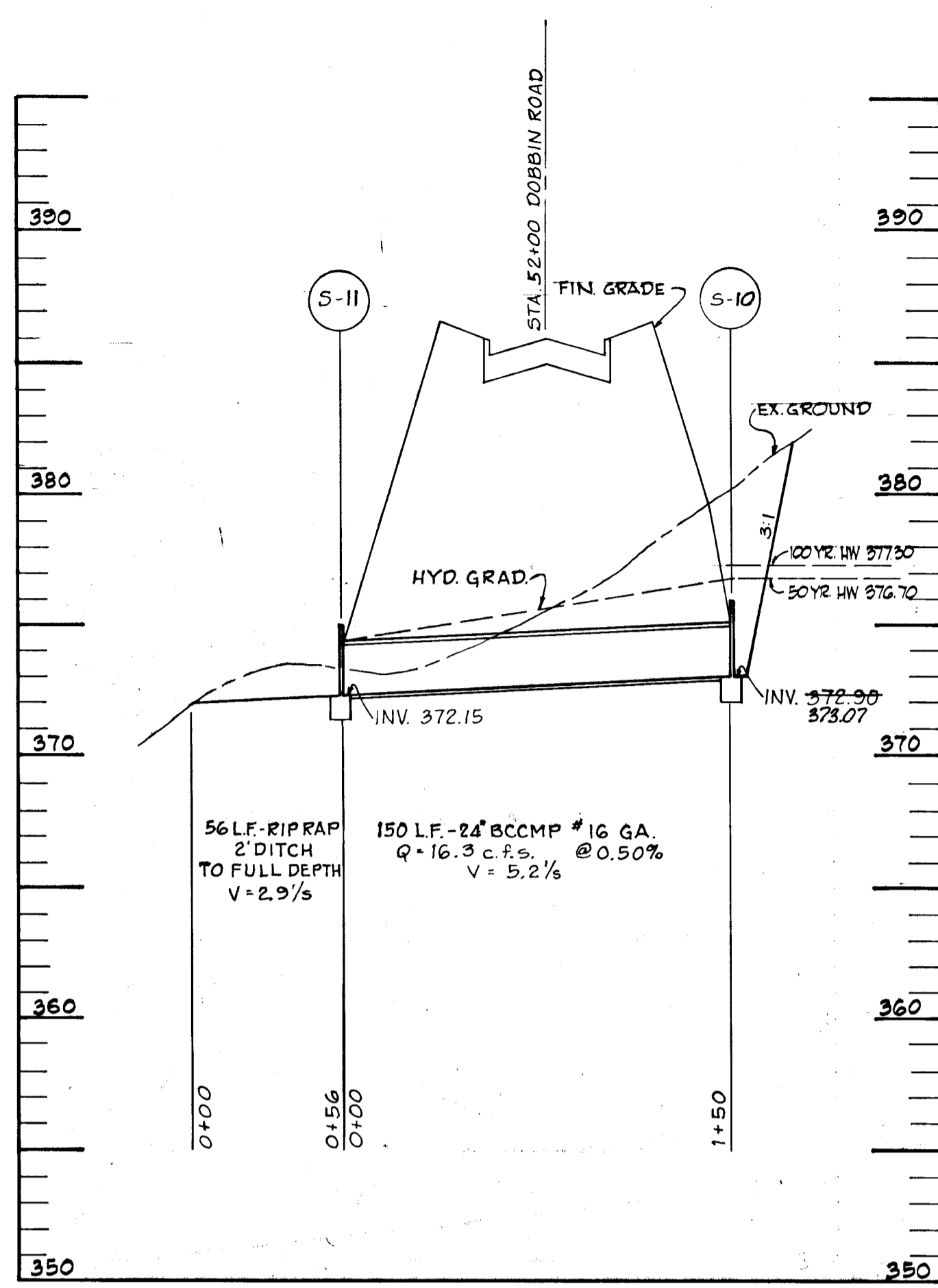
DEPARTMENT OF PUBLIC WORKS  
OFFICE OF PLANNING AND ZONING  
DATE: 5-30-73

PROJECT AREA: DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
PROJECT TITLE: PROPOSED OLD MONTGOMERY ROAD STA. 0+00 TO STA. 9+50  
DESIGNED BY: F.T. & K.L. SCALE: AS SHOWN  
DRAWN BY: J.D. DATE: MAY 22, 1973  
CHECKED BY: J.T.J.

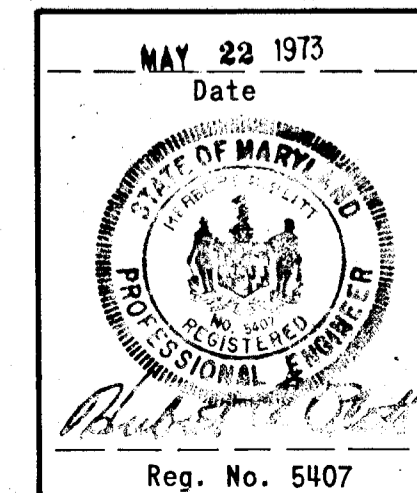


CURB TABULATIONS						
STA.	LT. T.C.	X-SLOPE	LT. MED. T.C.	RT. MED. T.C.	X-SLOPE	RT. T.C.
0+47.39	365.35					
0+50	365.40					
0+56	365.40	+0.09	366.36	366.36	-0.09	
0+65.72						367.35
0+75	366.10	+0.01	366.79	366.79	-0.01	367.48
1+00	366.59	+0.01	367.28	367.28	-0.01	367.74
1+25	366.71	+0.01	367.40	367.40	-0.01	367.64
1+50	367.15	+0.01	367.84	367.84	0.00	367.84
1+75	367.43	+0.01	368.12	368.12	+0.01	367.88
2+00	367.71	+0.01	368.40	368.40	+0.01	367.94

APPROVED  
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE: 5/30/73



APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/30/73



DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Highways  
 DATE 5-30-73

OFFICE OF PLANNING AND ZONING  
 Chief Division of Land Development and Transportation Planning  
 DATE

GREEN ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND

Rev Date Rev No Revision Description

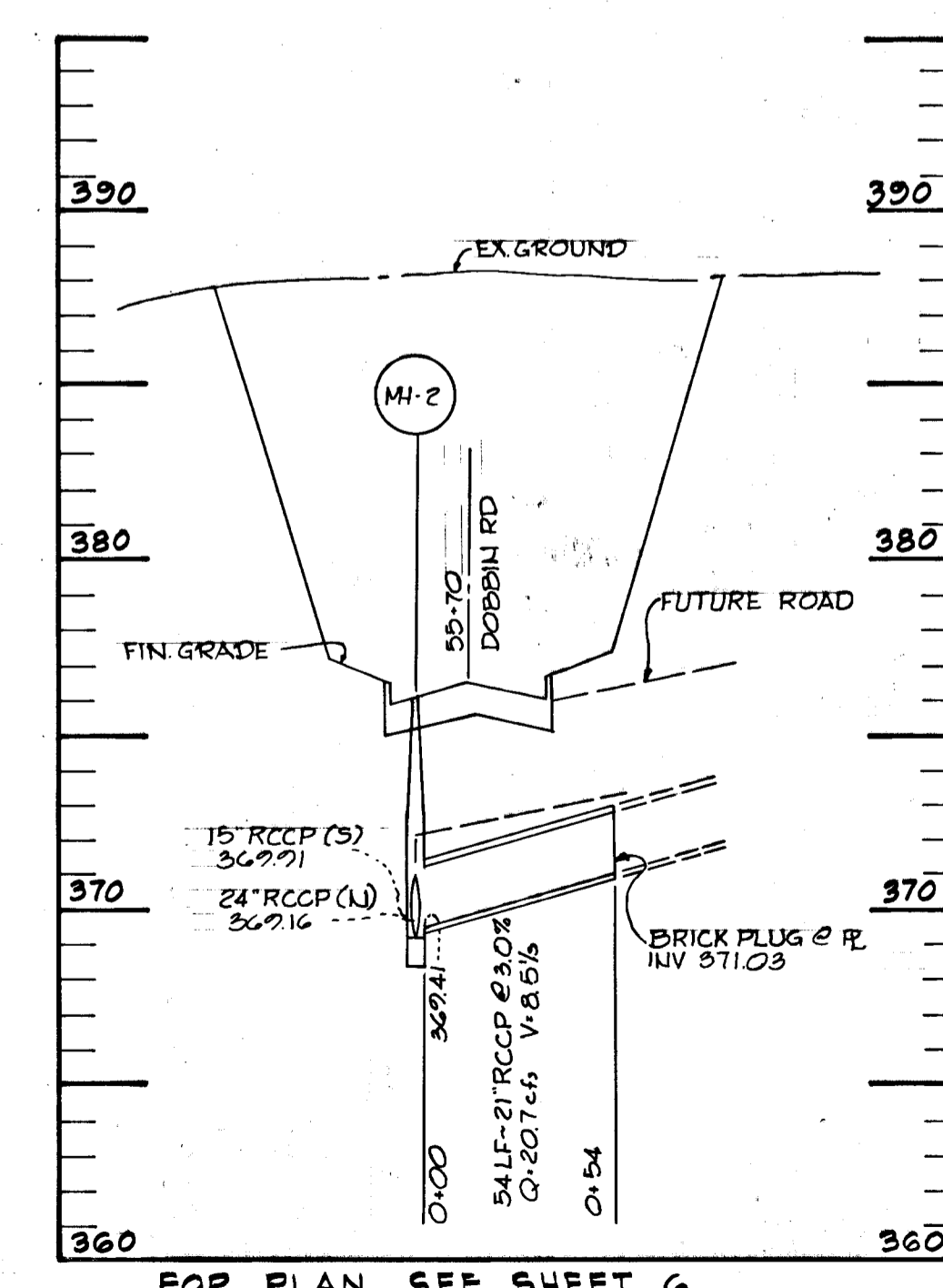
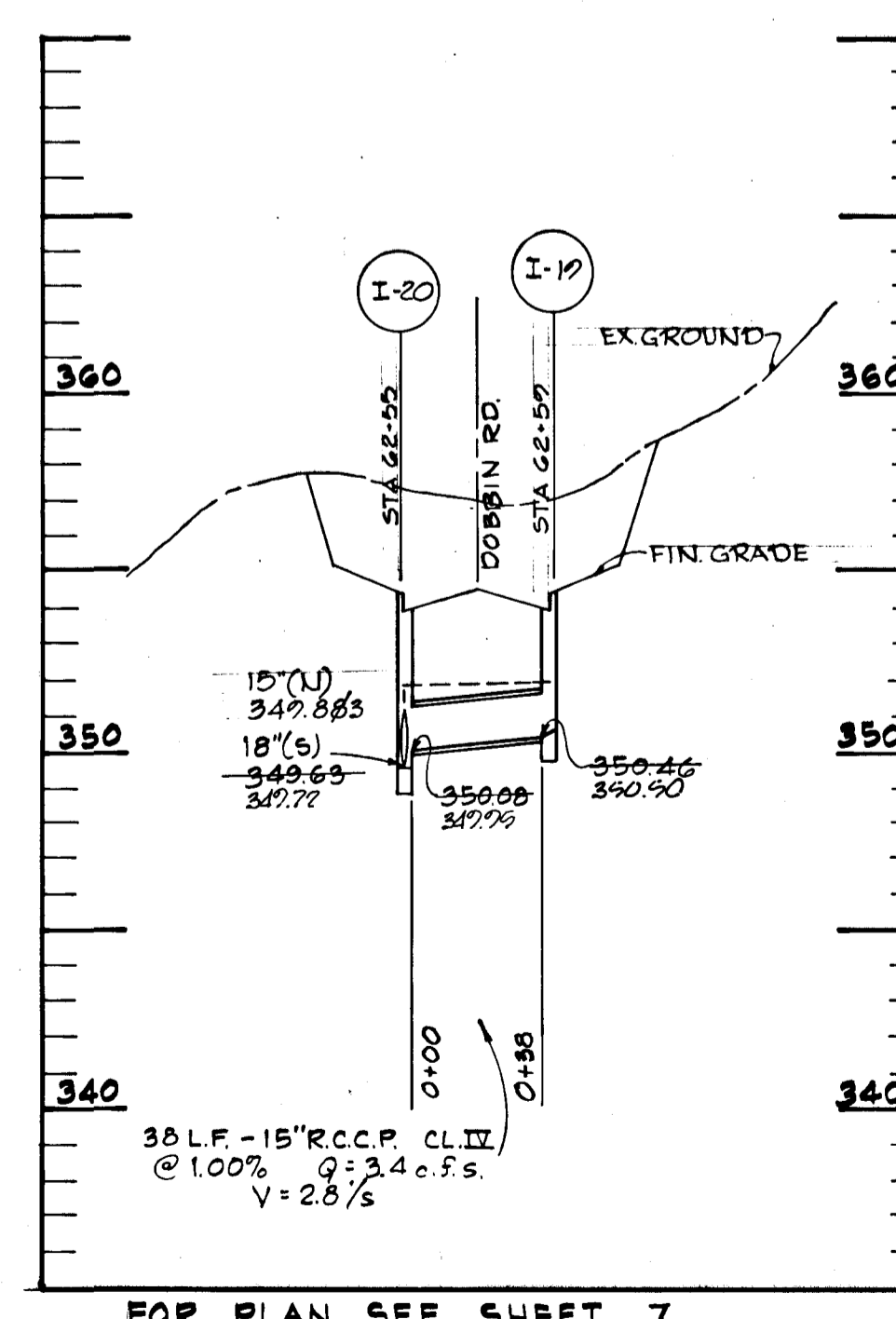
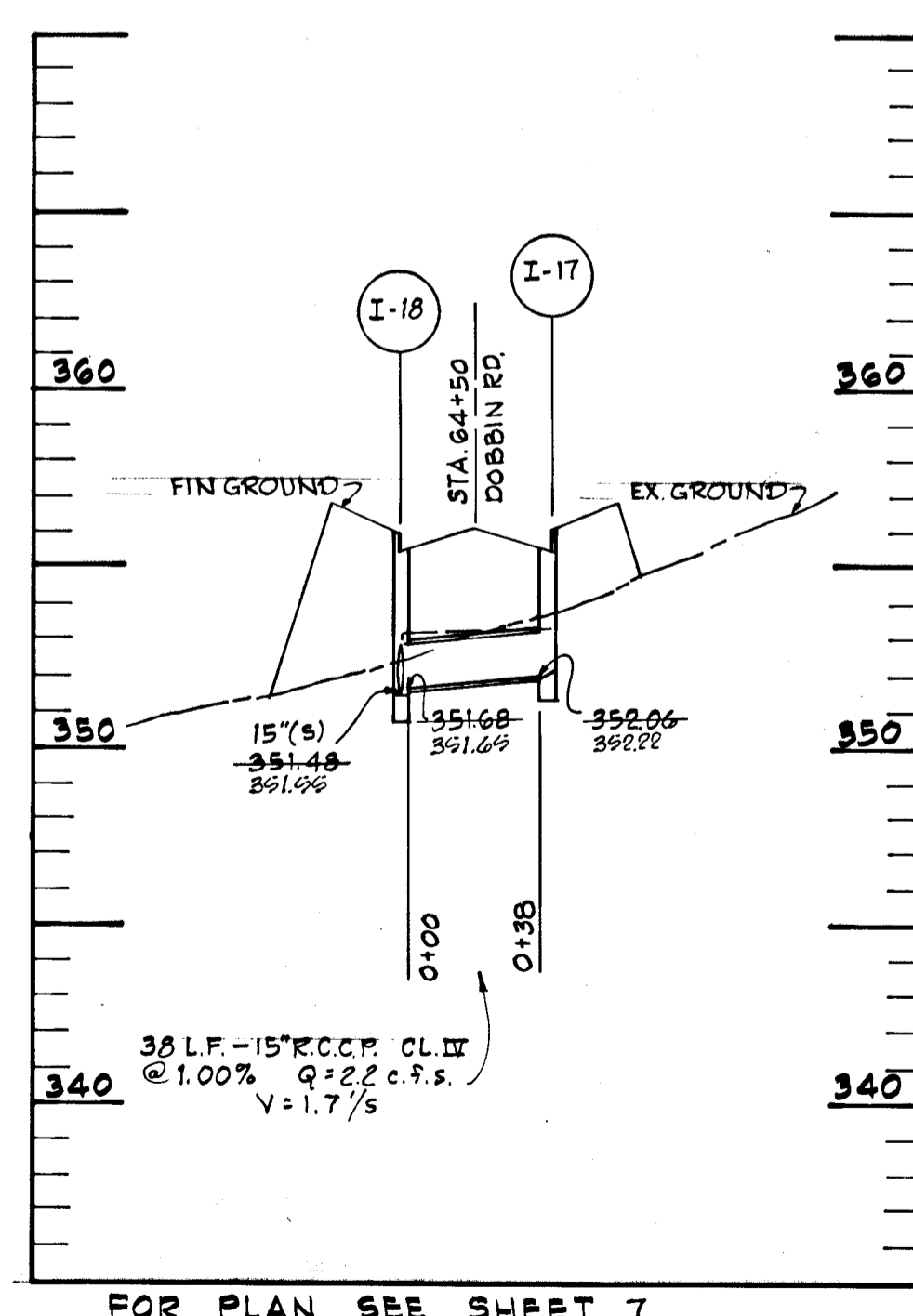
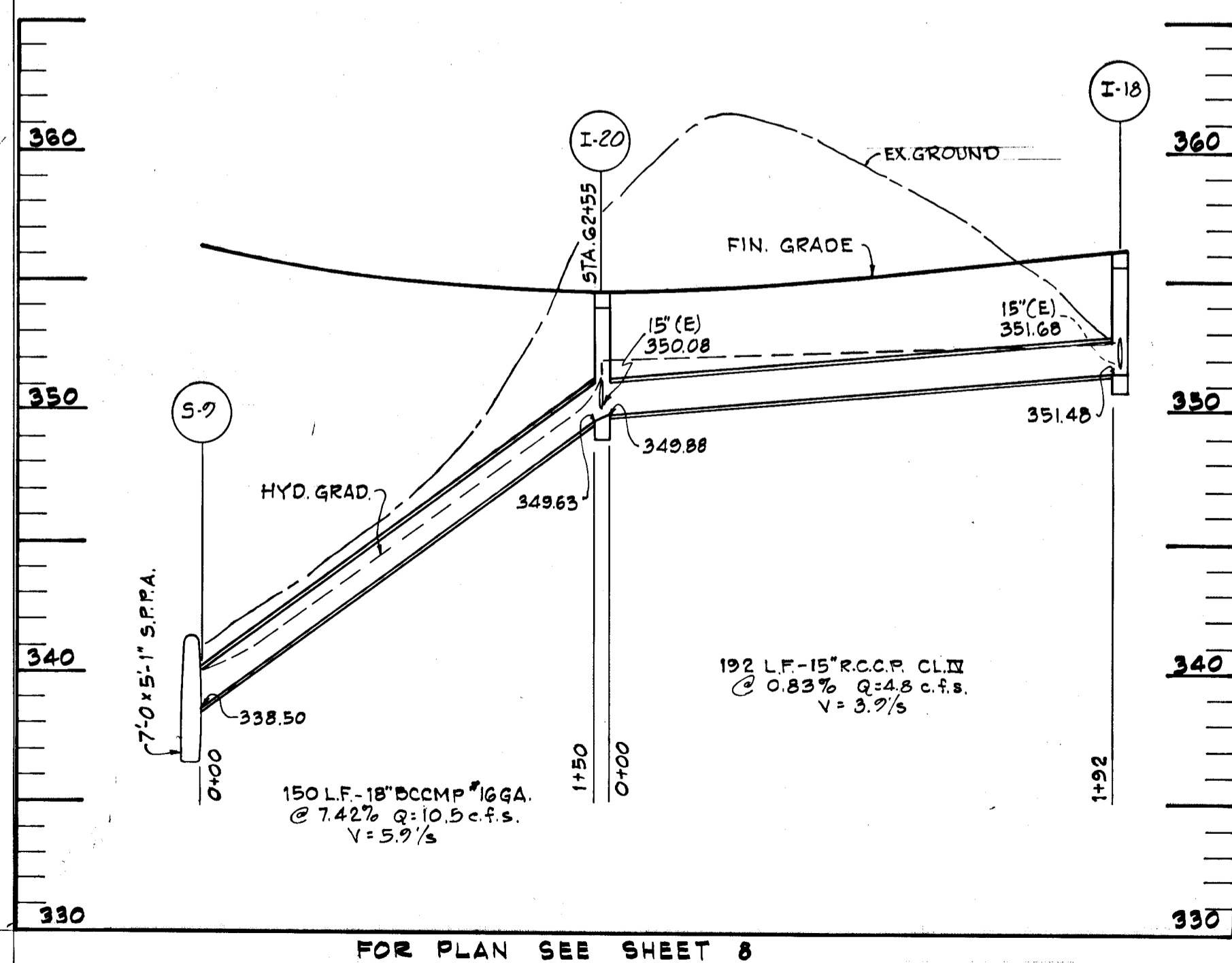
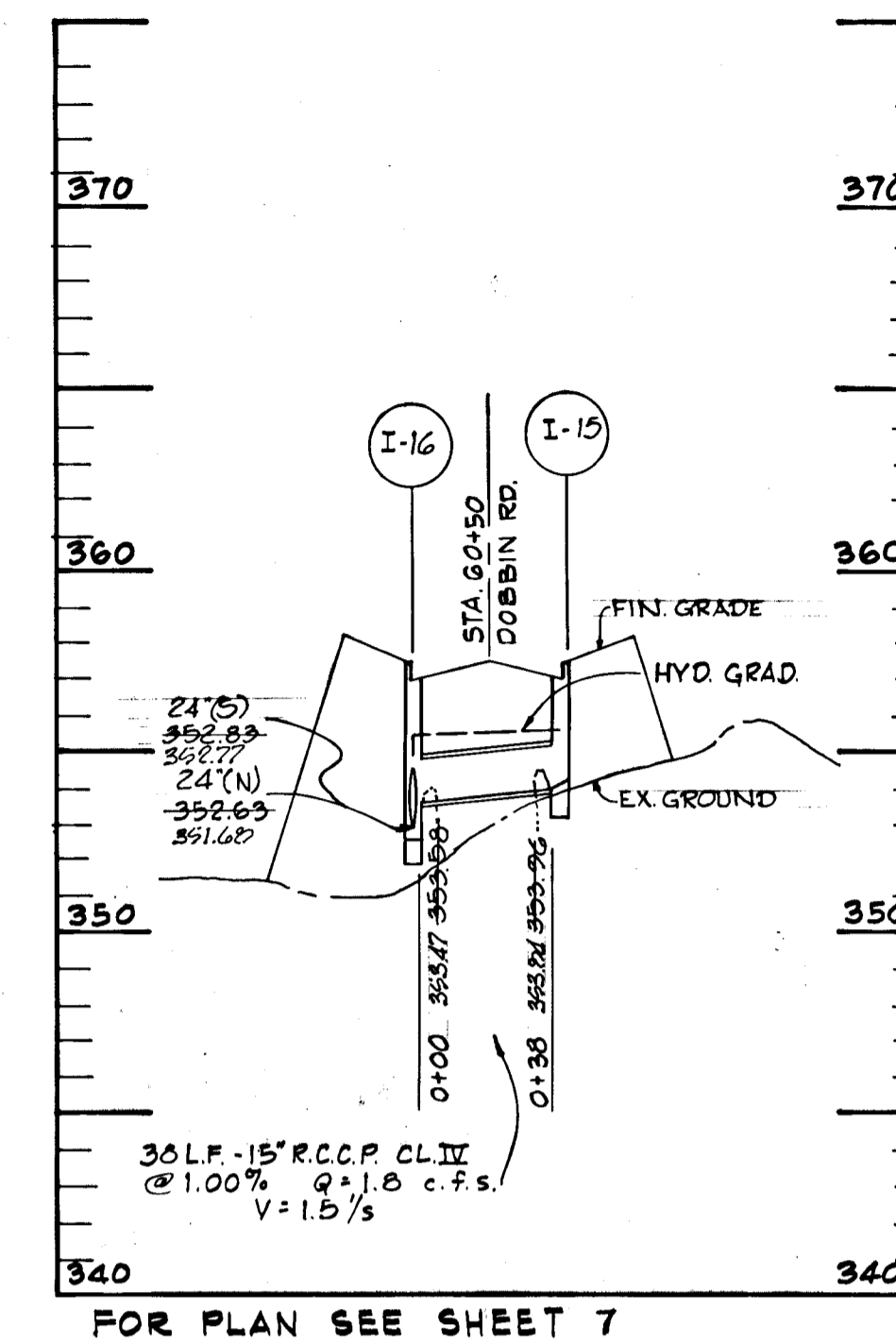
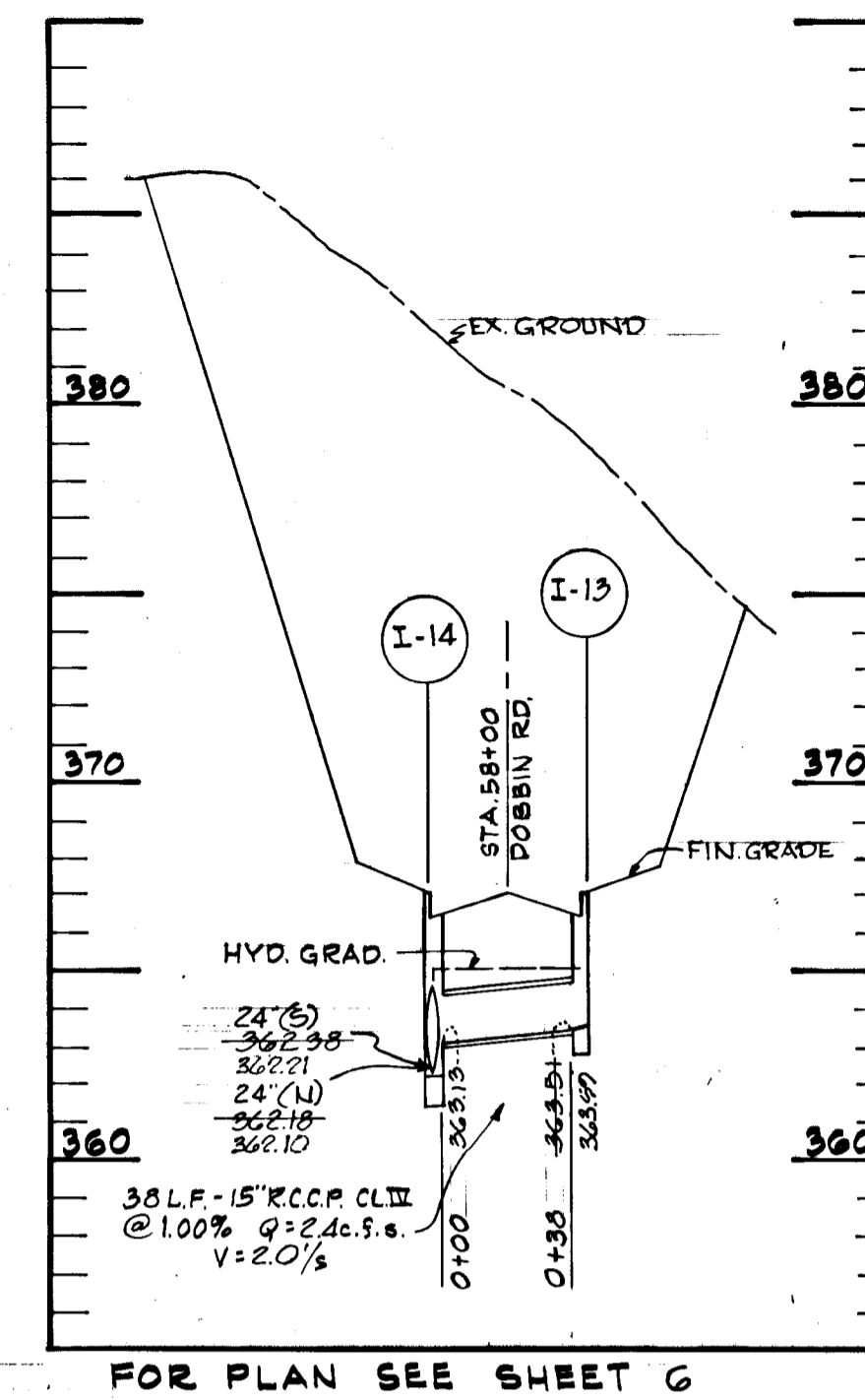
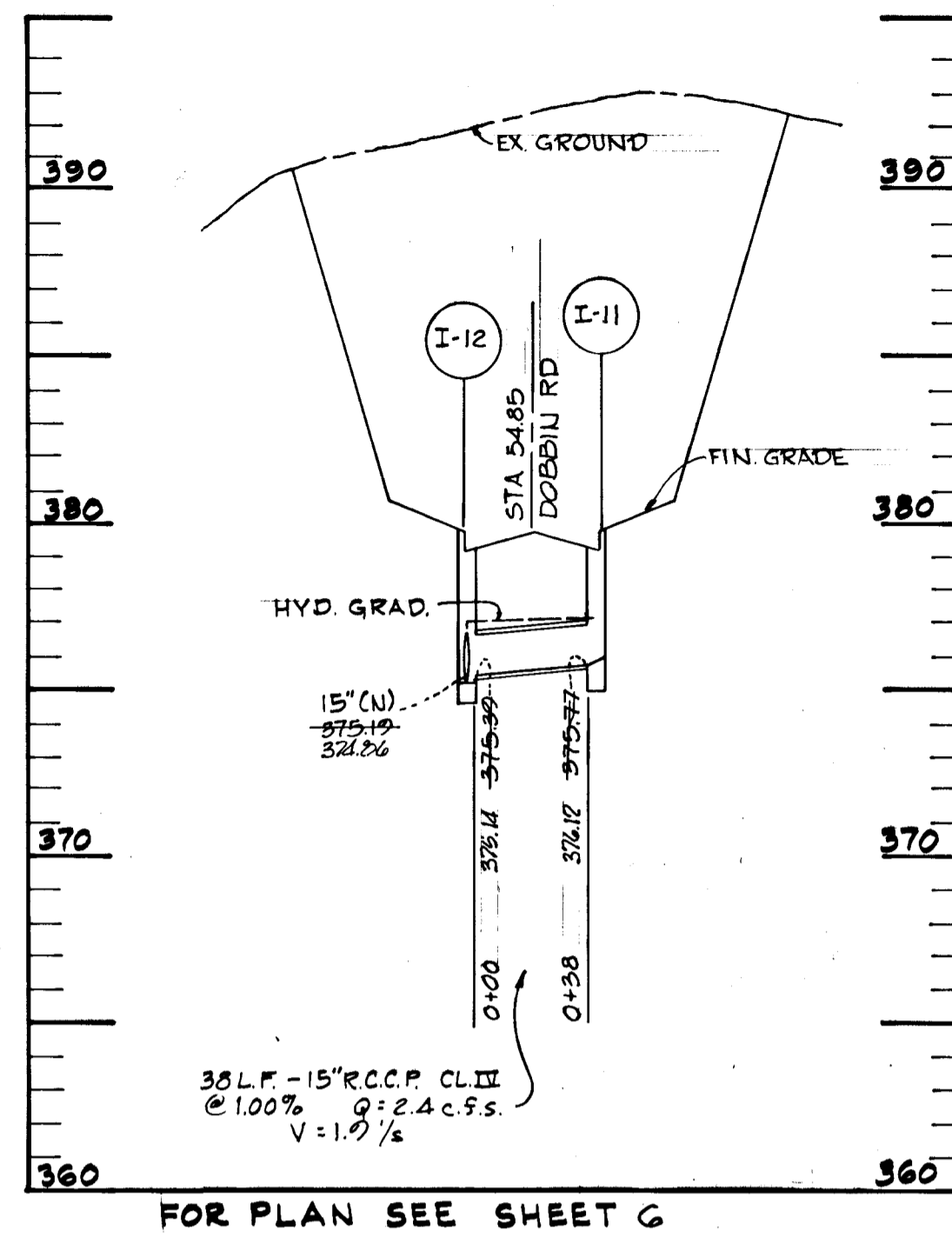
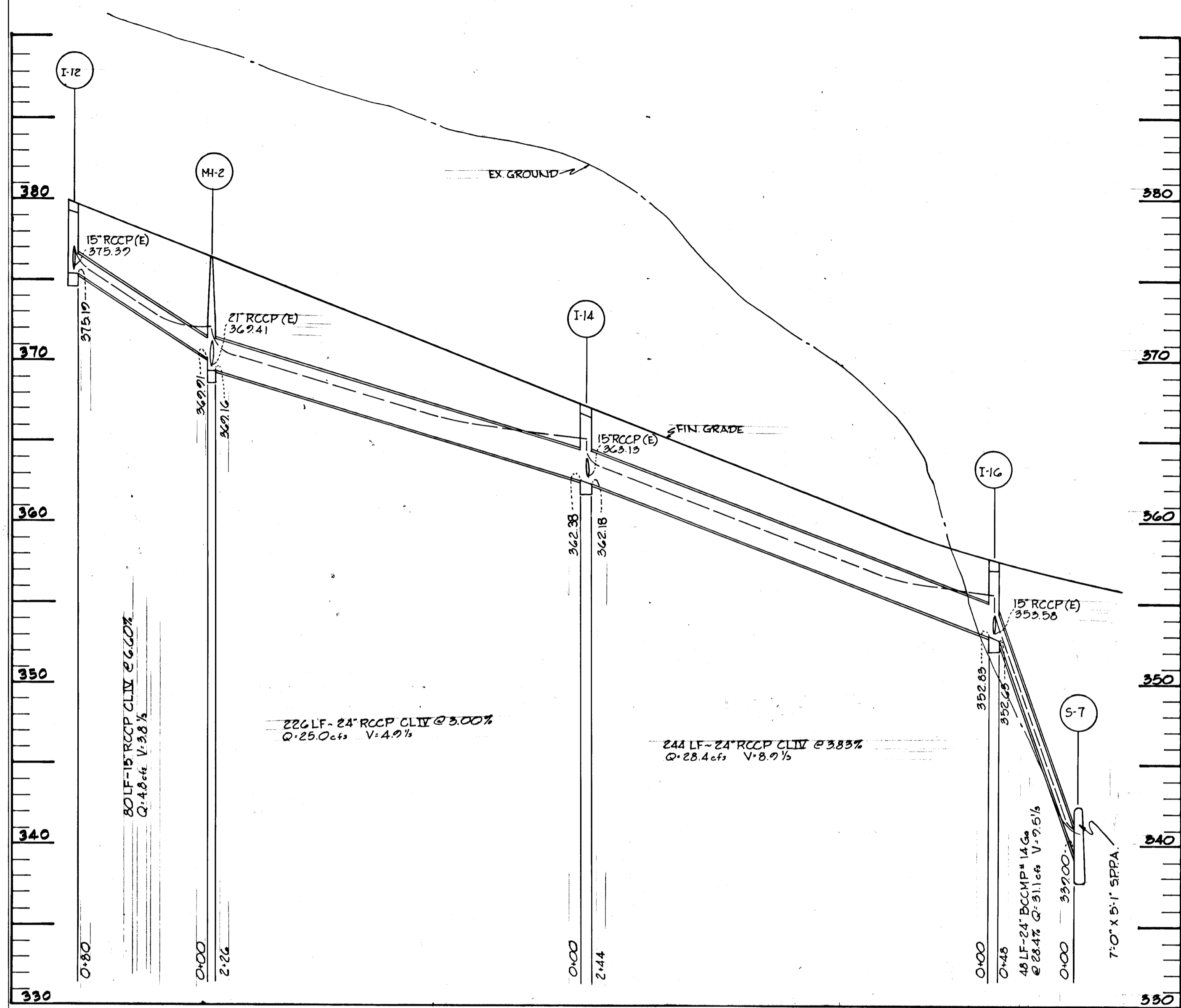
COLUMBIA  
 MARYLAND  
 6TH ELECTION DISTRICT HOWARD COUNTY

HOWARD RESEARCH AND DEVELOPMENT CORP.  
 COLUMBIA, MARYLAND

PROJECT AREA DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
 PROJECT TITLE STORM DRAIN PROFILES

Date MAY 23 1973  
 Scale 1" = 5' VERT. 1" = 50' HORIZ.  
 Drawn By J.D. Date MAY 23 1973  
 Checked By J.T.J. Approved

Reg. No. 5407

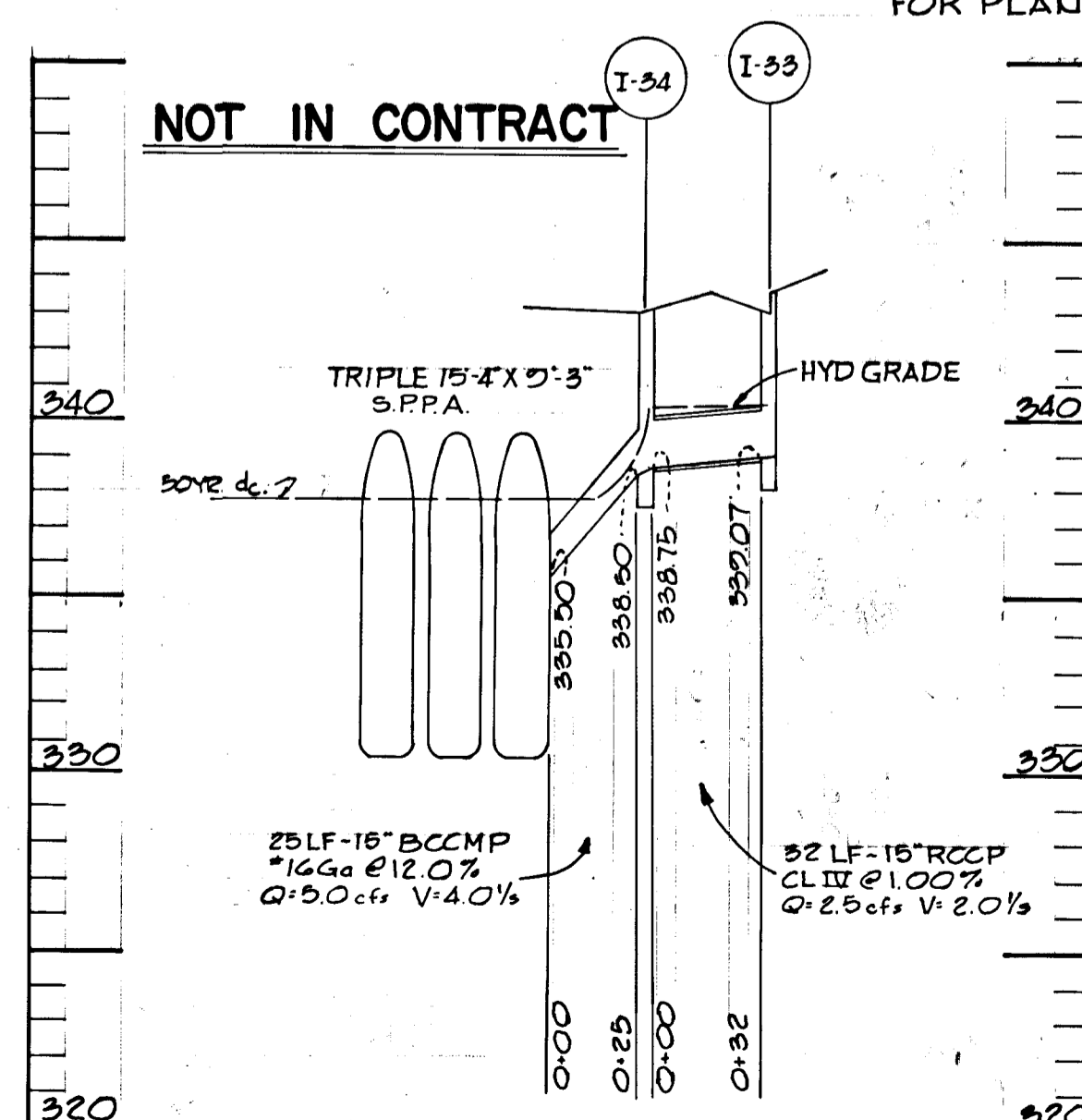
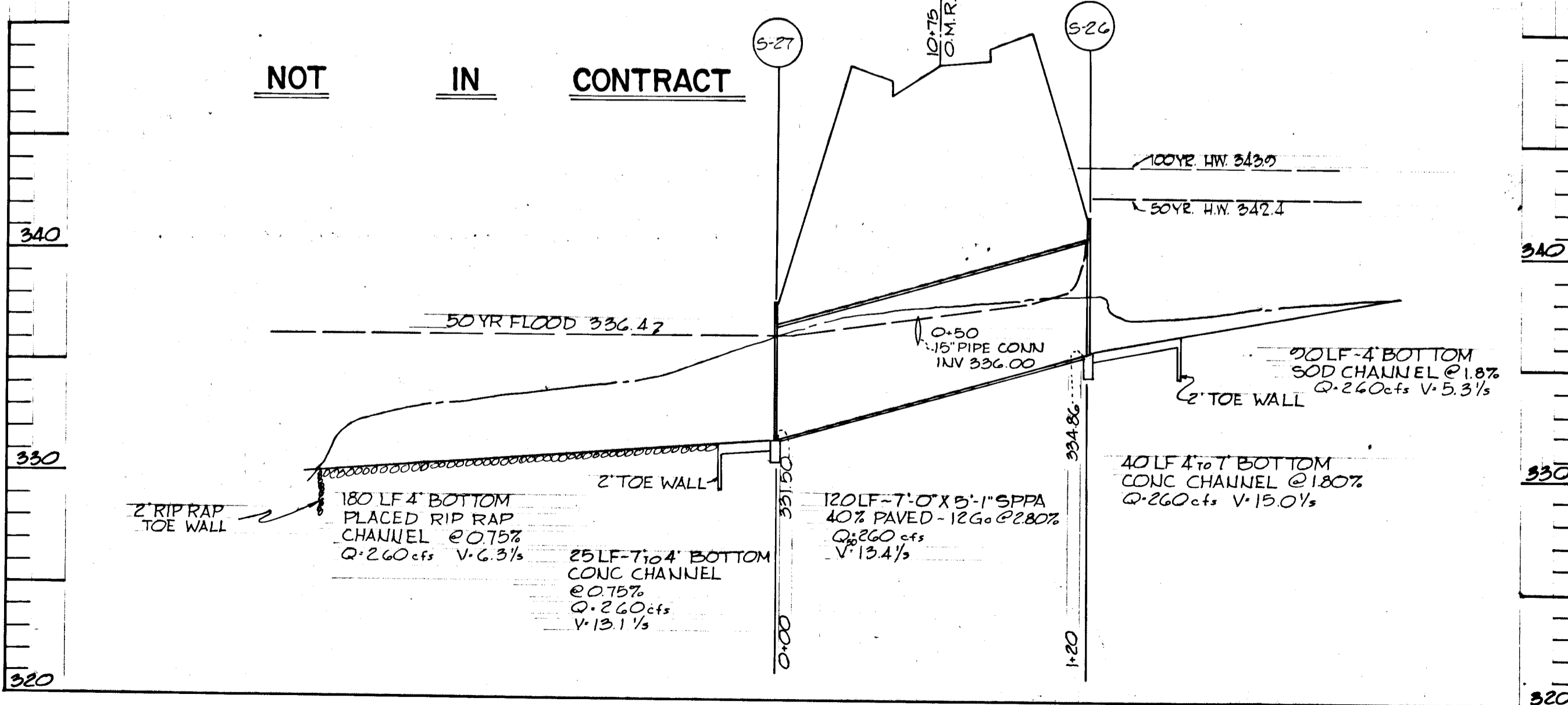
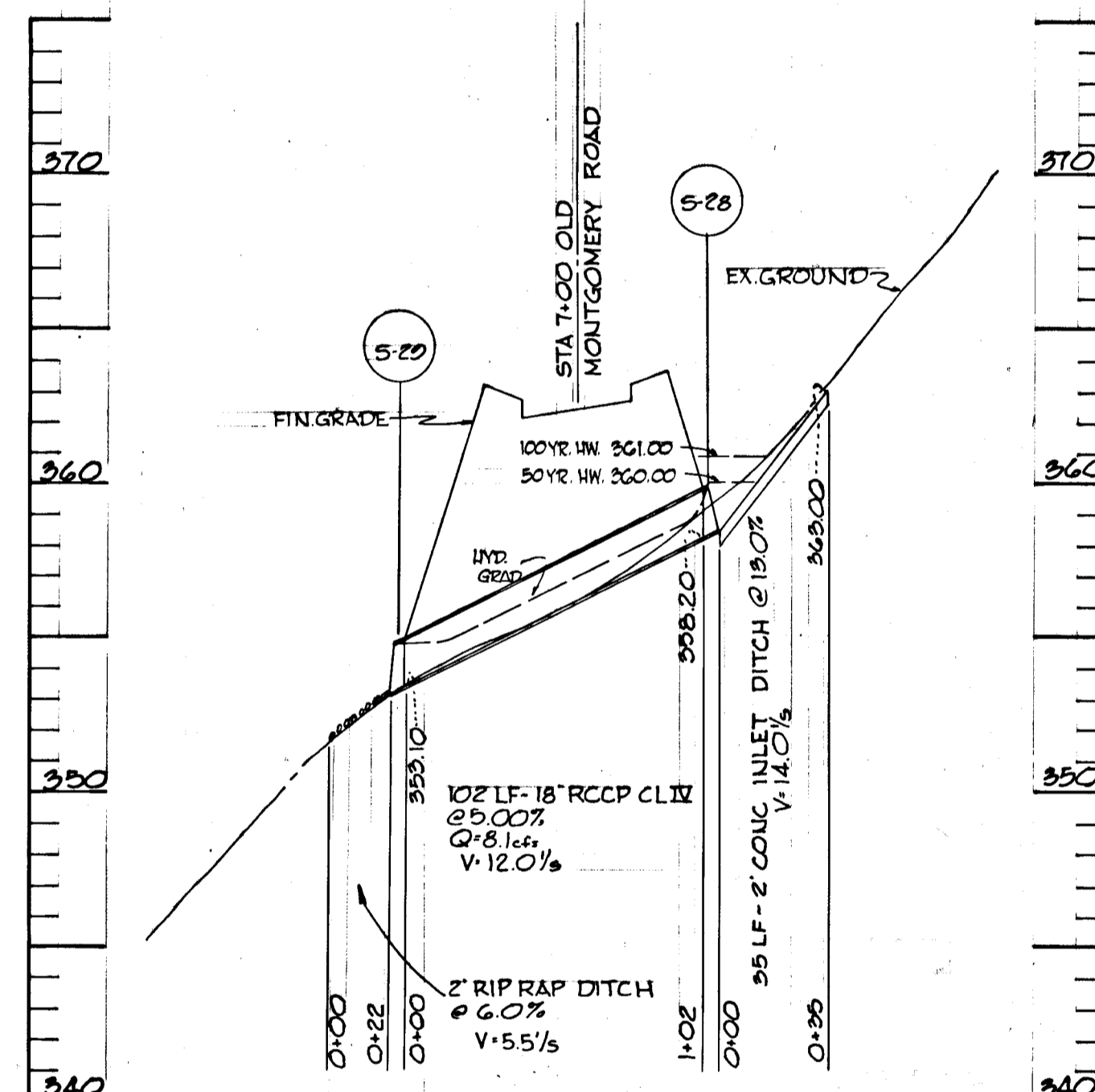
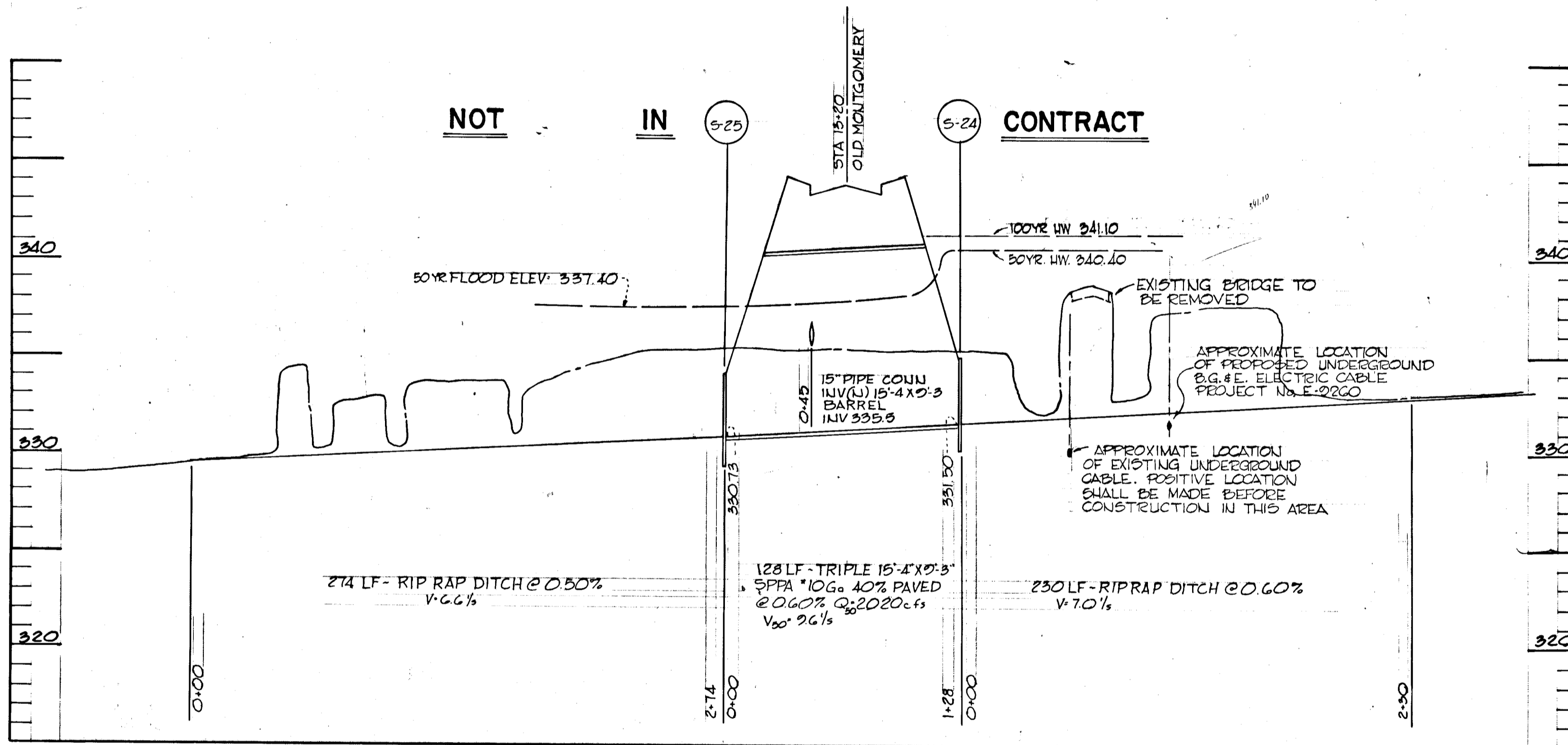
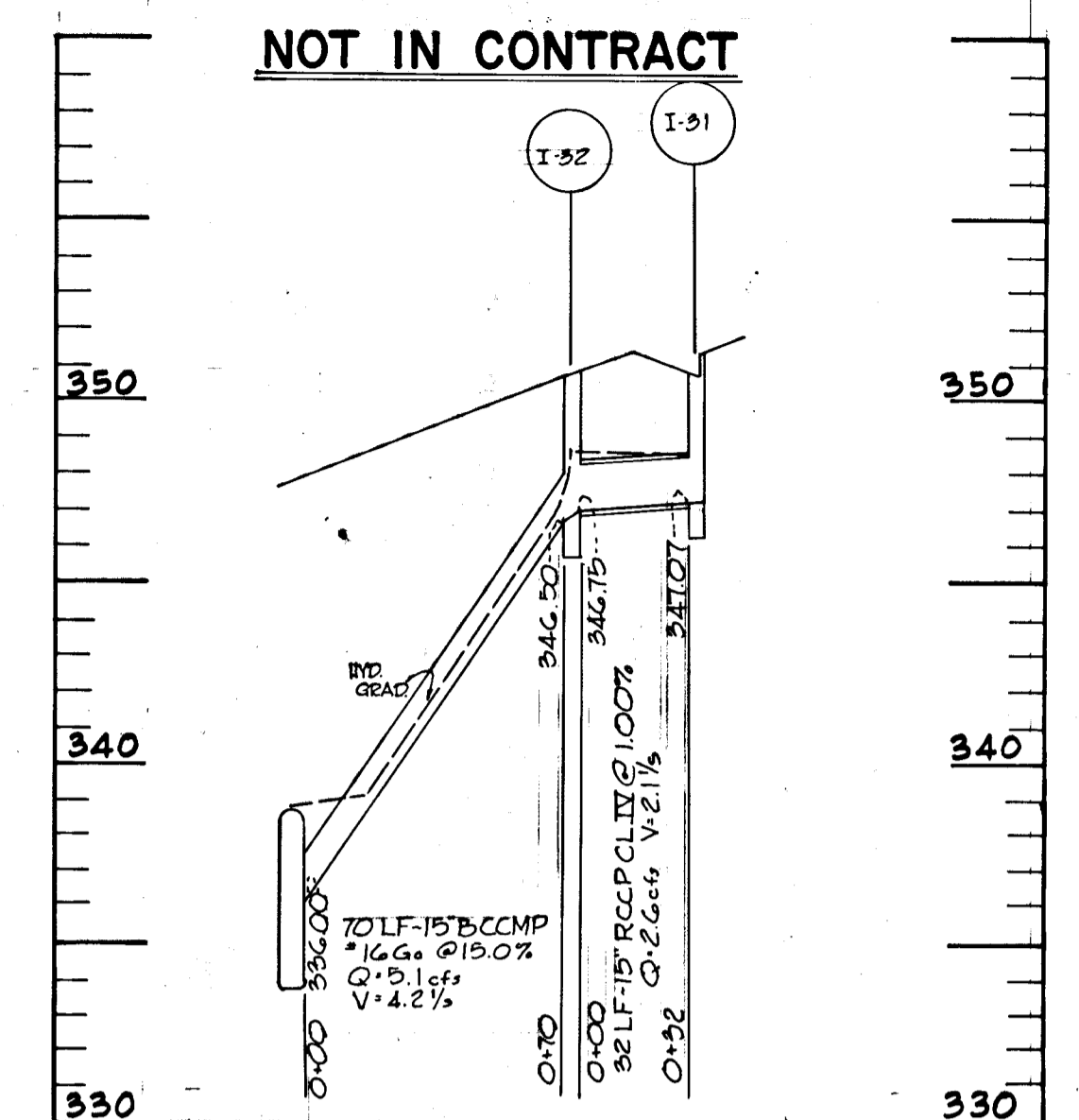
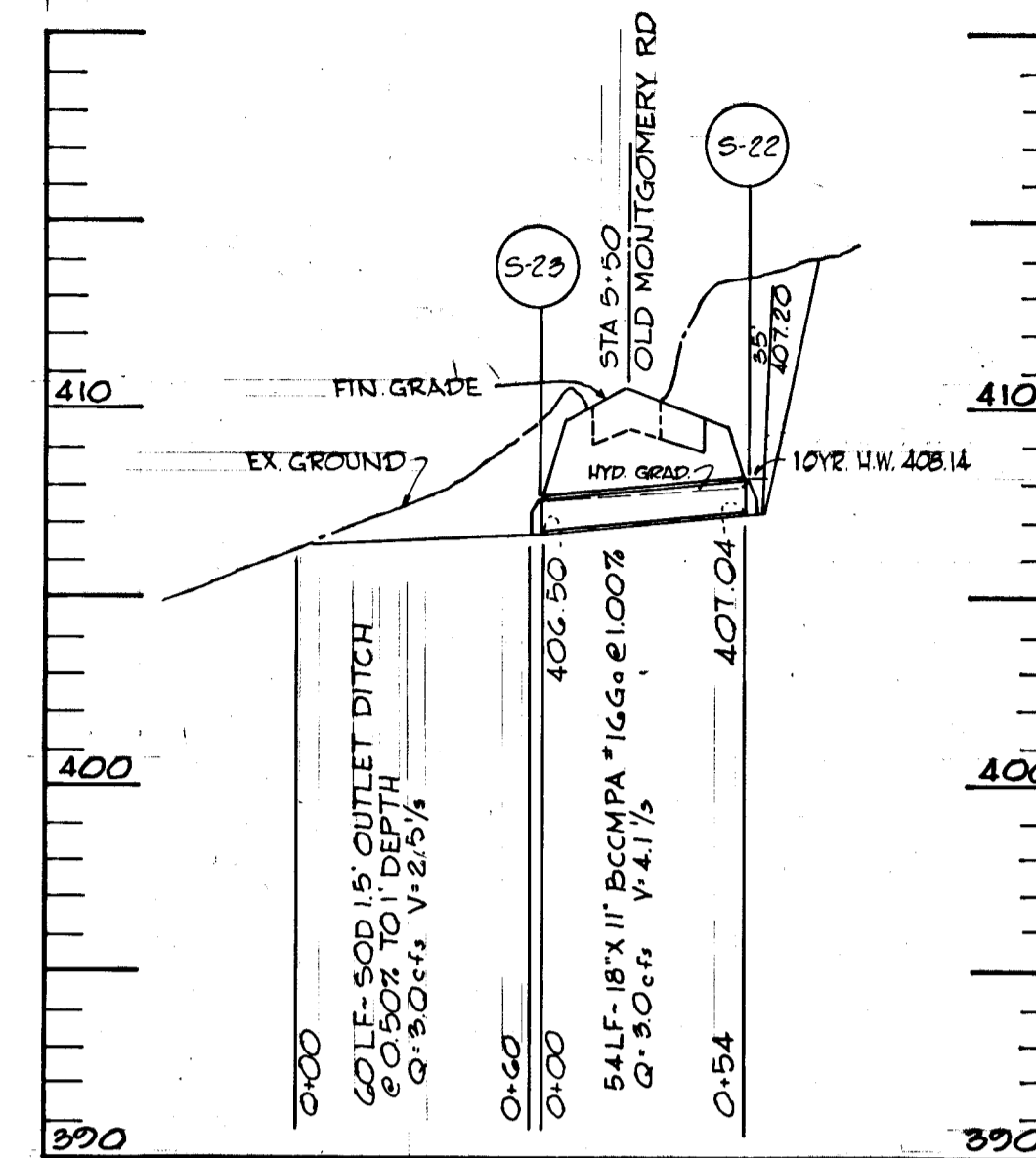
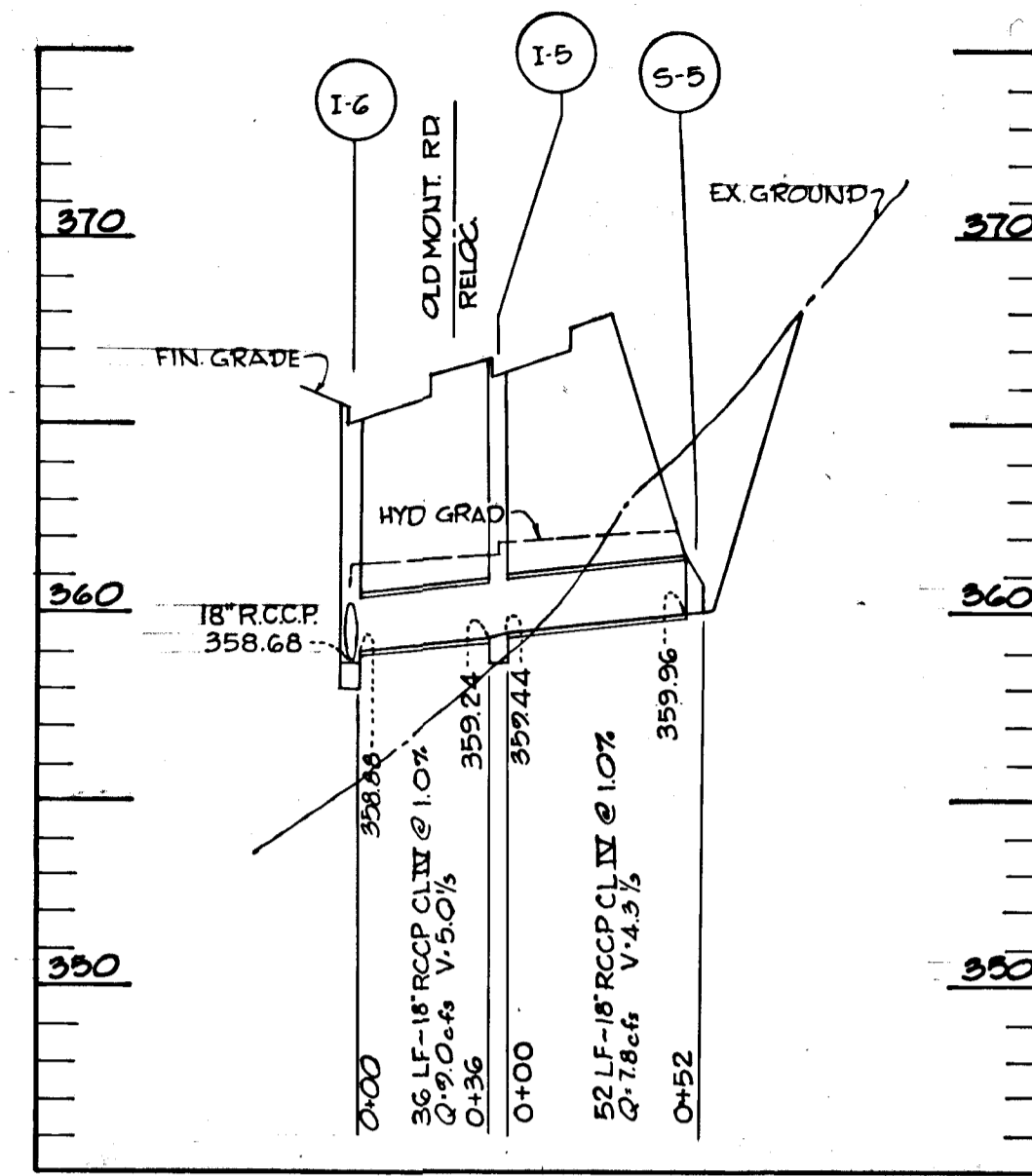
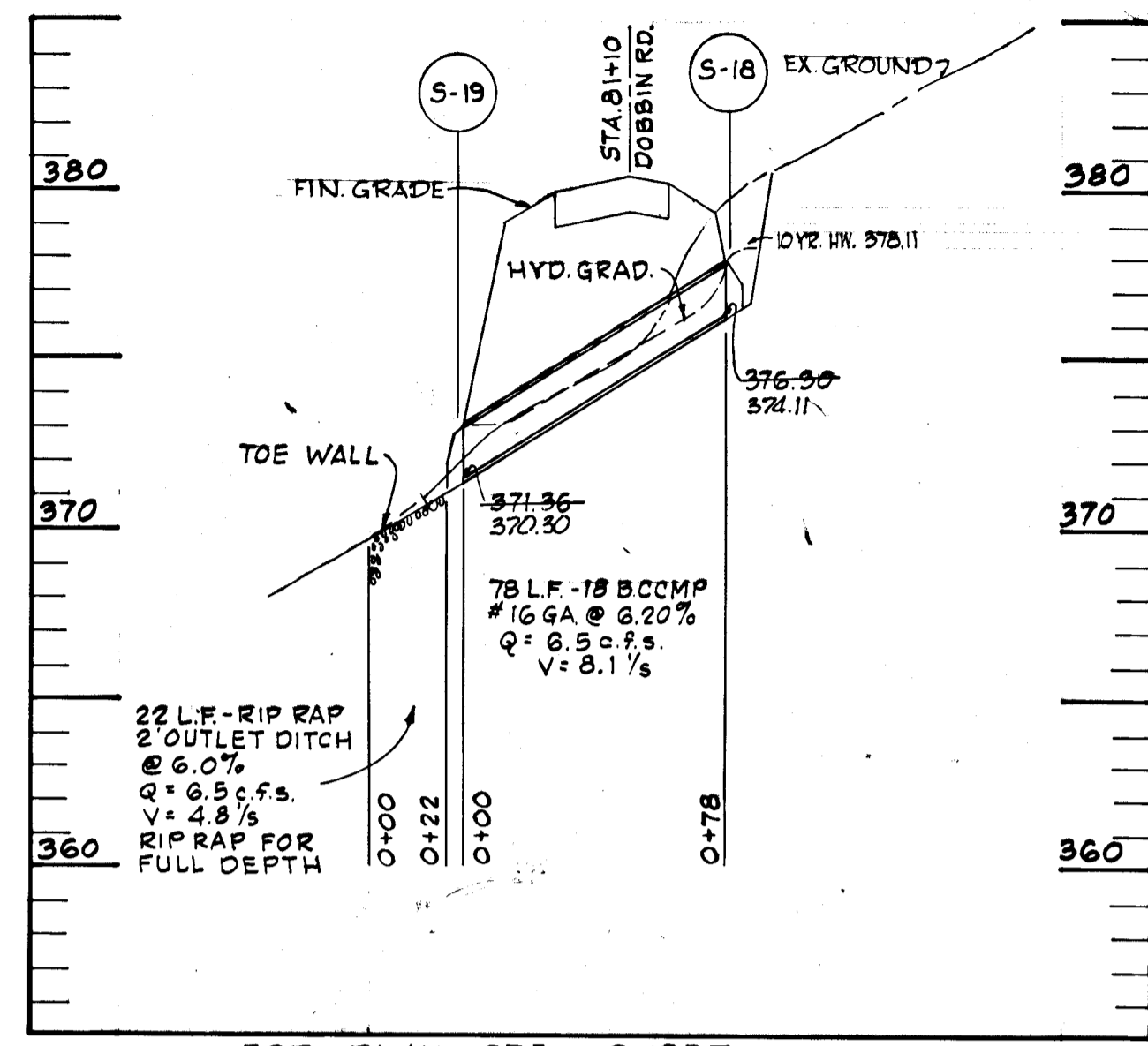
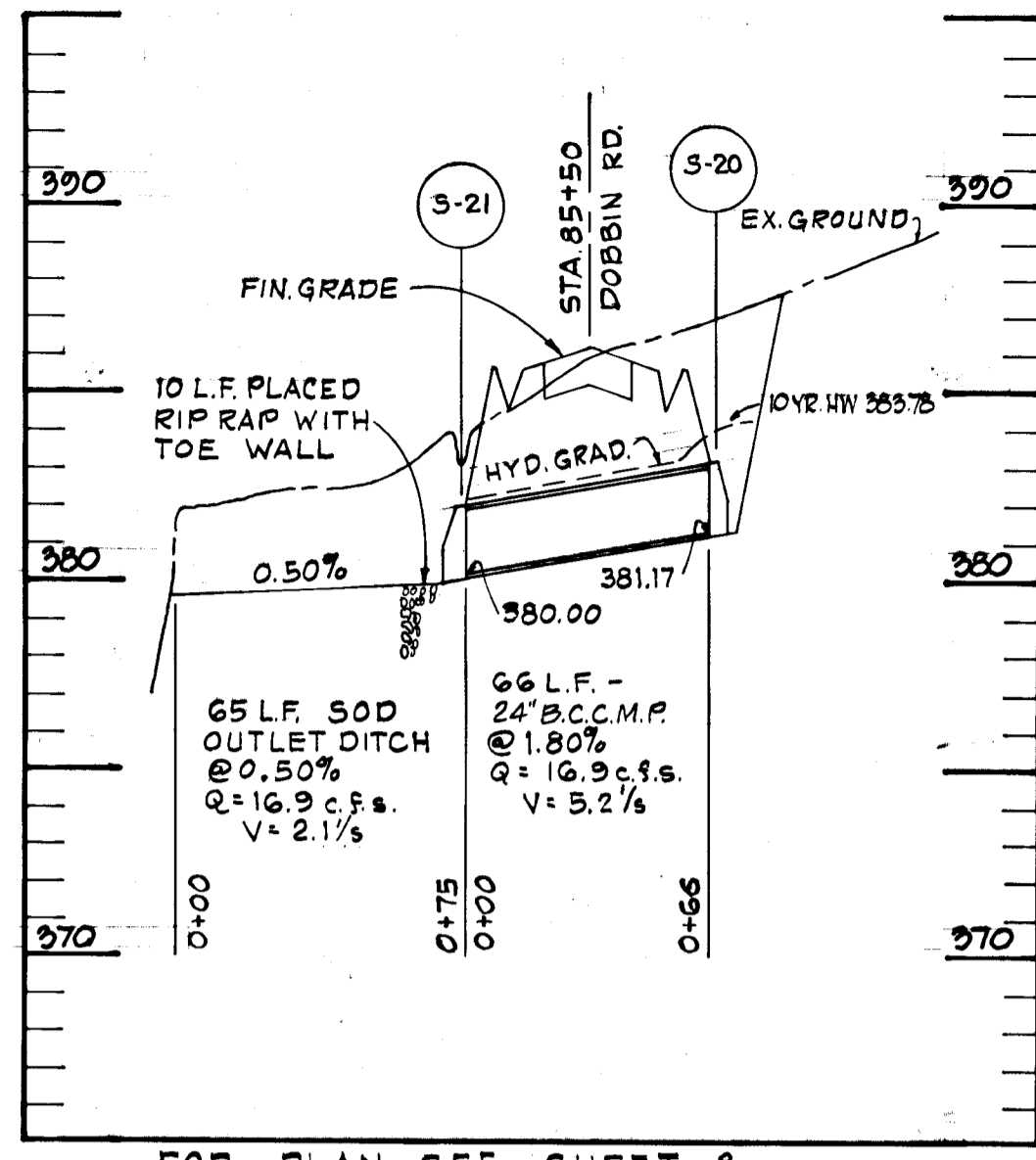


APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HONORABLE JAMES J. JENNINGS  
 DATE 5/30/73  
 J.T.J.

MAY 22 1973  
 Date  
  
 Reg. No. 5407

DEPARTMENT OF PUBLIC WORKS  
*W. P. White* 5-30-73  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE  
 GREEN ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND  
 Rev. Date: Rev. No.: Revision Description:  
 COLUMBIA  
 MARYLAND  
 6TH ELECTION DISTRICT HOWARD COUNTY  
 HOWARD RESEARCH AND DEVELOPMENT CORP.  
 COLUMBIA, MARYLAND  
 PROJECT AREA: DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
 PROJECT TITLE: STORM DRAIN PROFILES  
 Des. By: K.A.L. Scale: 1" = 5' VERT. 1" = 50' HORIZ. Draw No.: 12  
 Dwn. By: Date: MAY 22 1973 C.E.F. No.:  
 Chk. By: J.T.J. Approved:

"As-BUILT"  
 5-30-73 F 75-78C



APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 5/30/73  
 J.T.J.

DEPARTMENT OF PUBLIC WORKS

*W. O. Falbert* 5-30-73  
 CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING

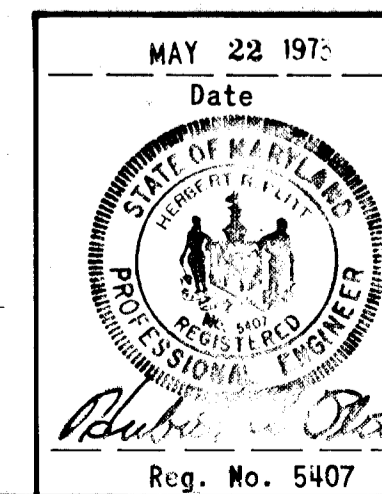
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

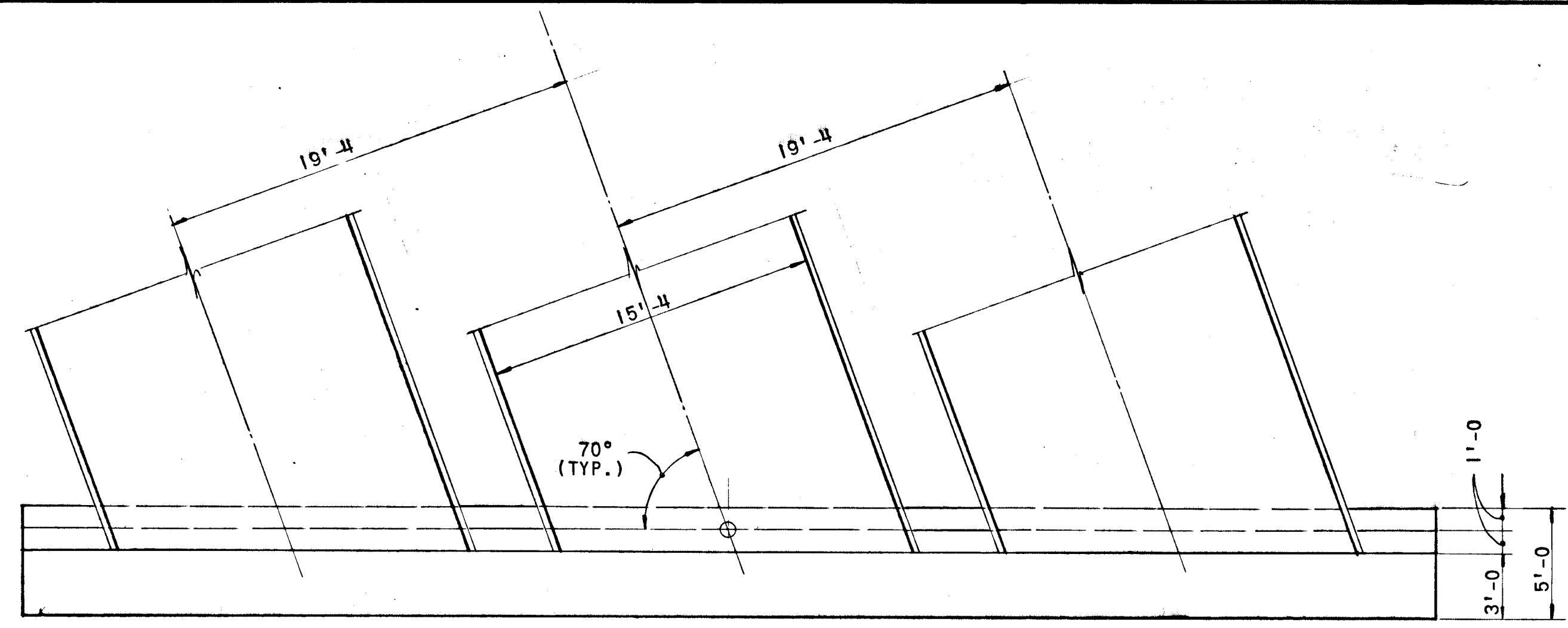
GREEN ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 BALTIMORE, MARYLAND

Rev. Date Rev. No. Revision Description

**COLUMBIA**  
 MARYLAND  
 6TH ELECTION DISTRICT HOWARD COUNTY  
 PROJECT AREA: DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD  
 PROJECT TITLE: STORM DRAIN PROFILES

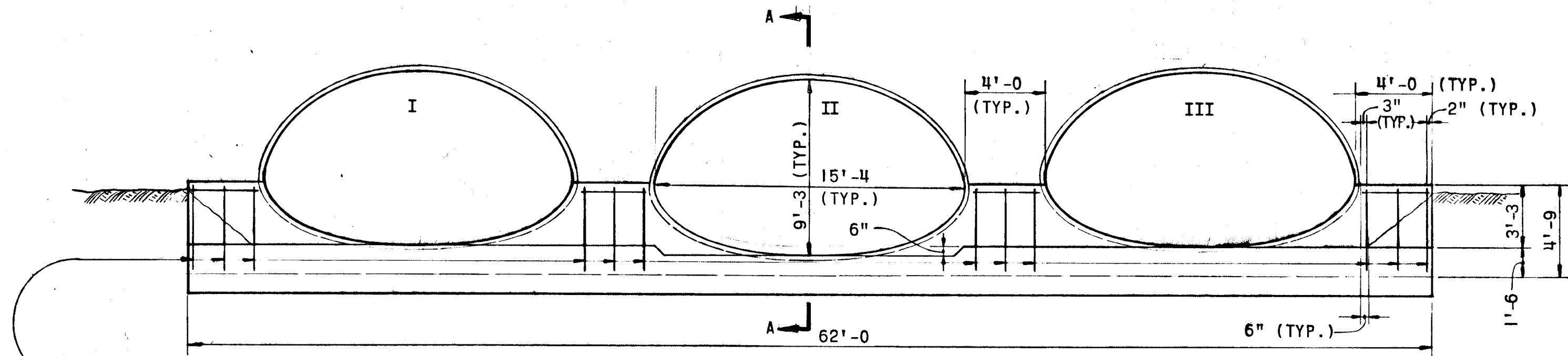
DESIGNED BY: K.A.L. SCALE: 1" = 5' VERT. 1" = 50' HORZ. DRAWING NO. 13  
 CHECKED BY: J.D. DATE: MAY 22 1973 C.C.E. NO.  
 APPROVED BY: J.T.J.





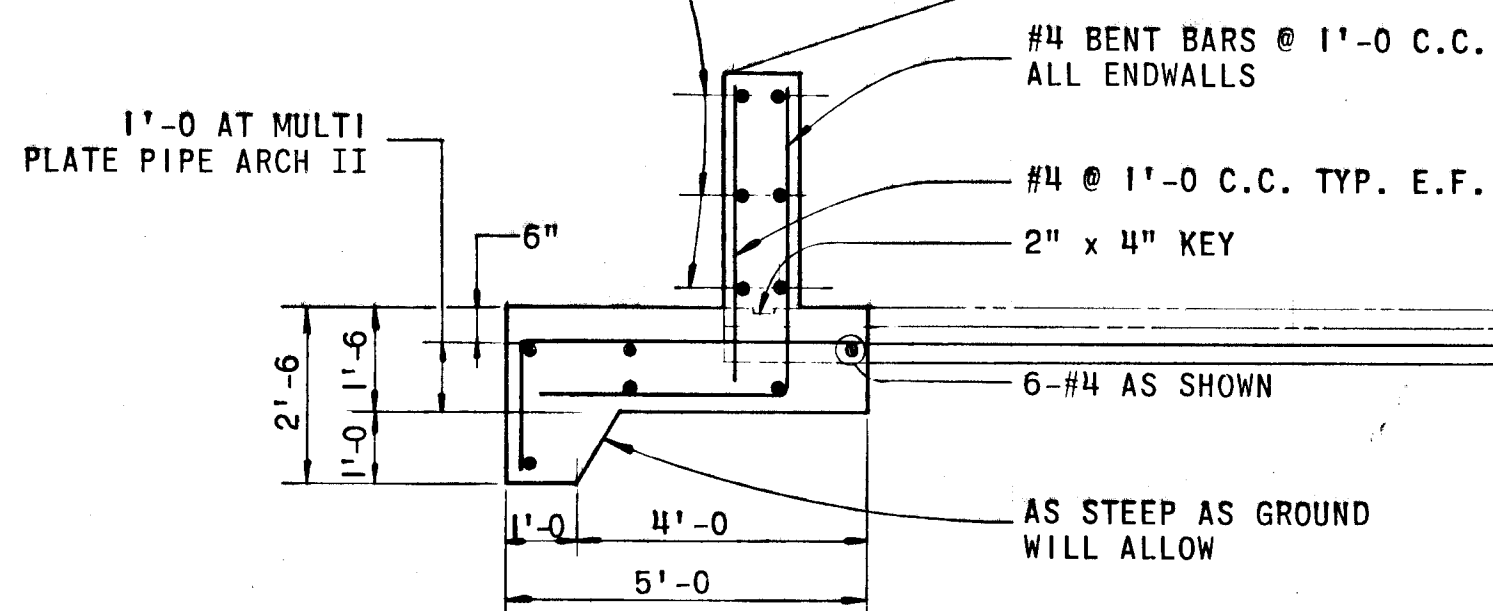
**PLAN**  
TRIPLE 15'-4 x 9'-3 MULTI PLATE PIPE ARCH  
SCALE: 3/16" = 1'-0"

**NOT IN CONTRACT**



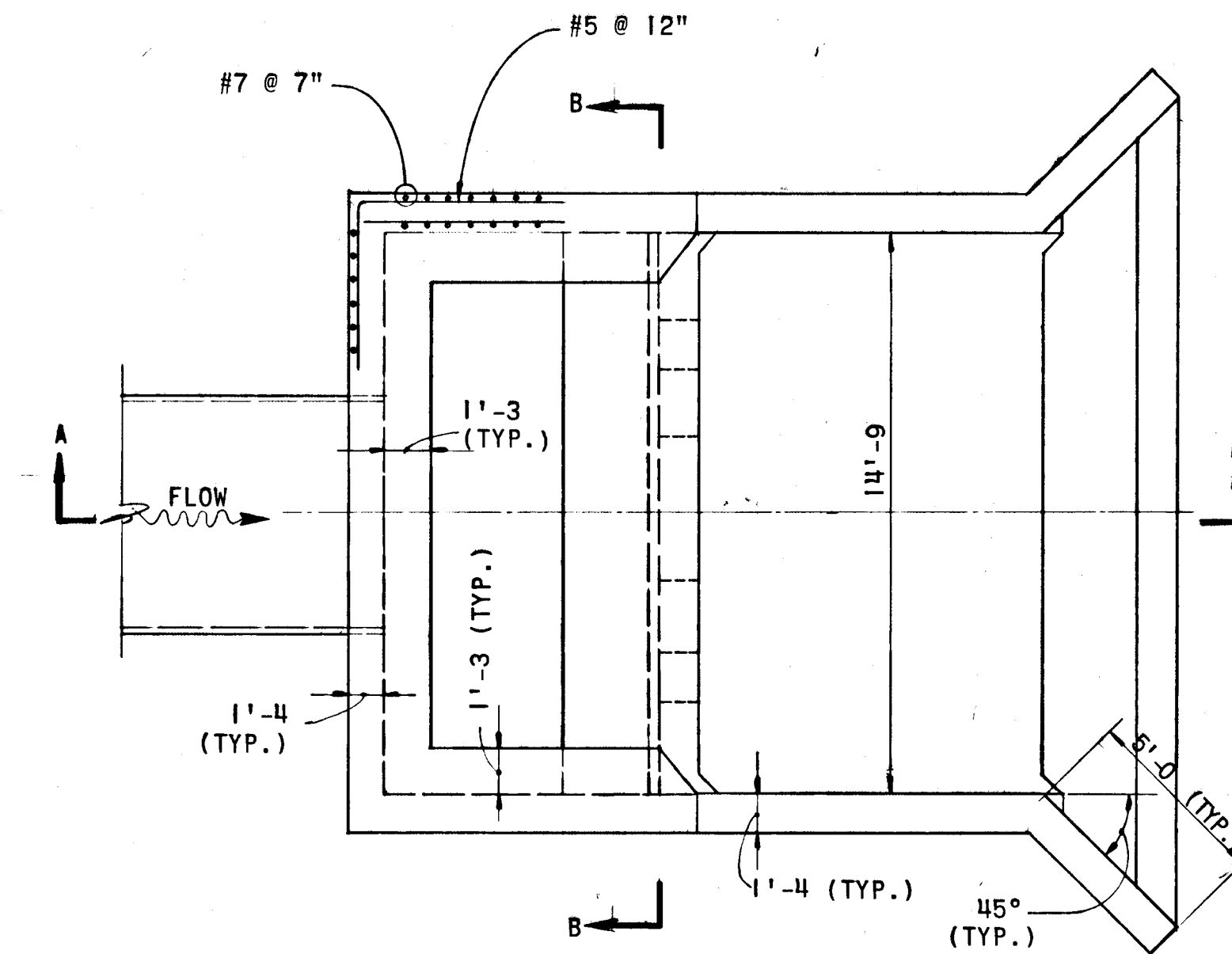
**ELEVATION**  
SCALE: 3/16" = 1'-0"

#4 STRAIGHT BARS HORIZ. AT 1'-6 MAX. C.C. BOTH FACES  
BOTTOM BARS TO BE FULL LENGTH ALL ENDWALLS

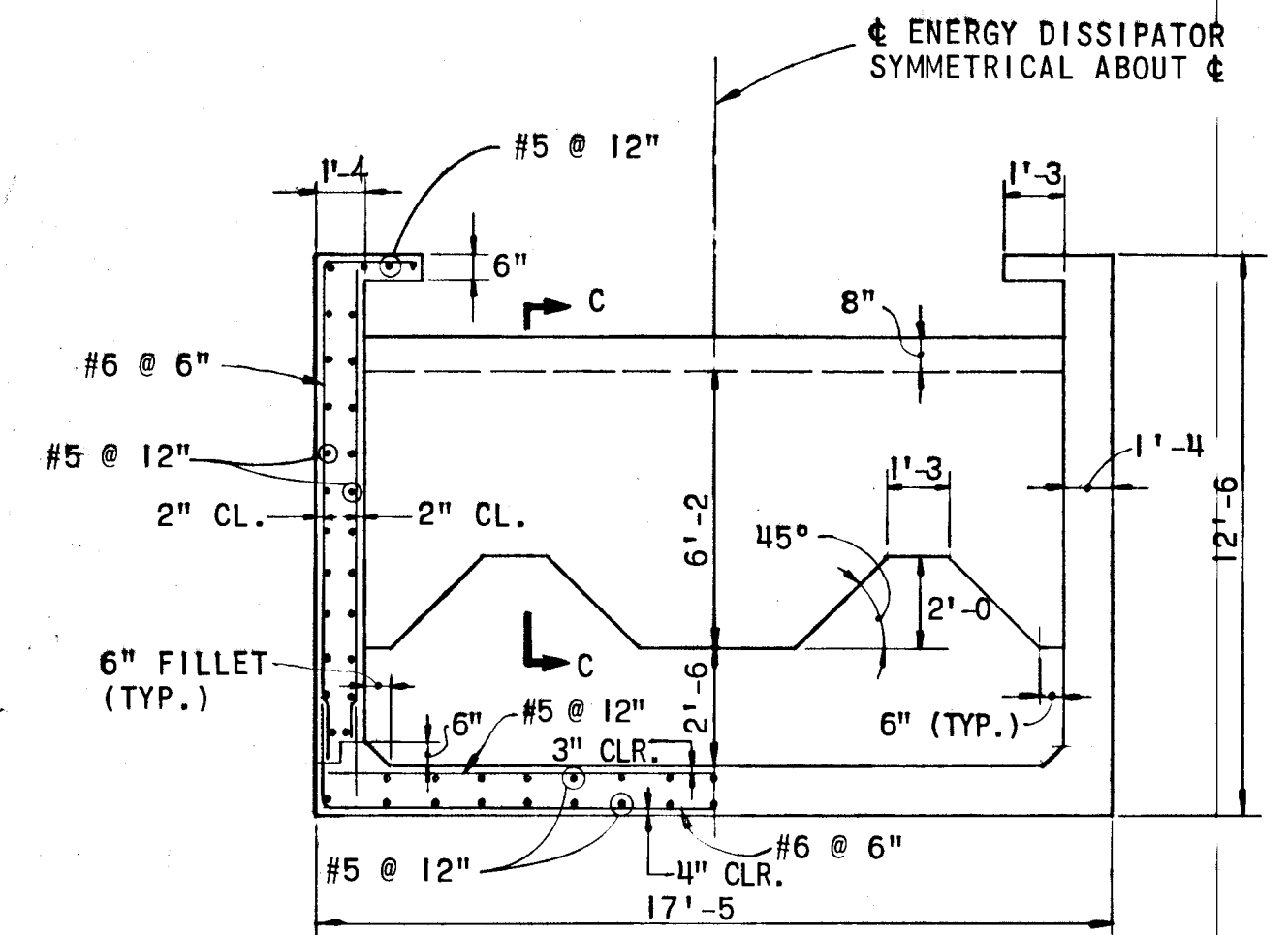


**SECTION 'A-A'**  
SCALE: 3/8" = 1'-0"

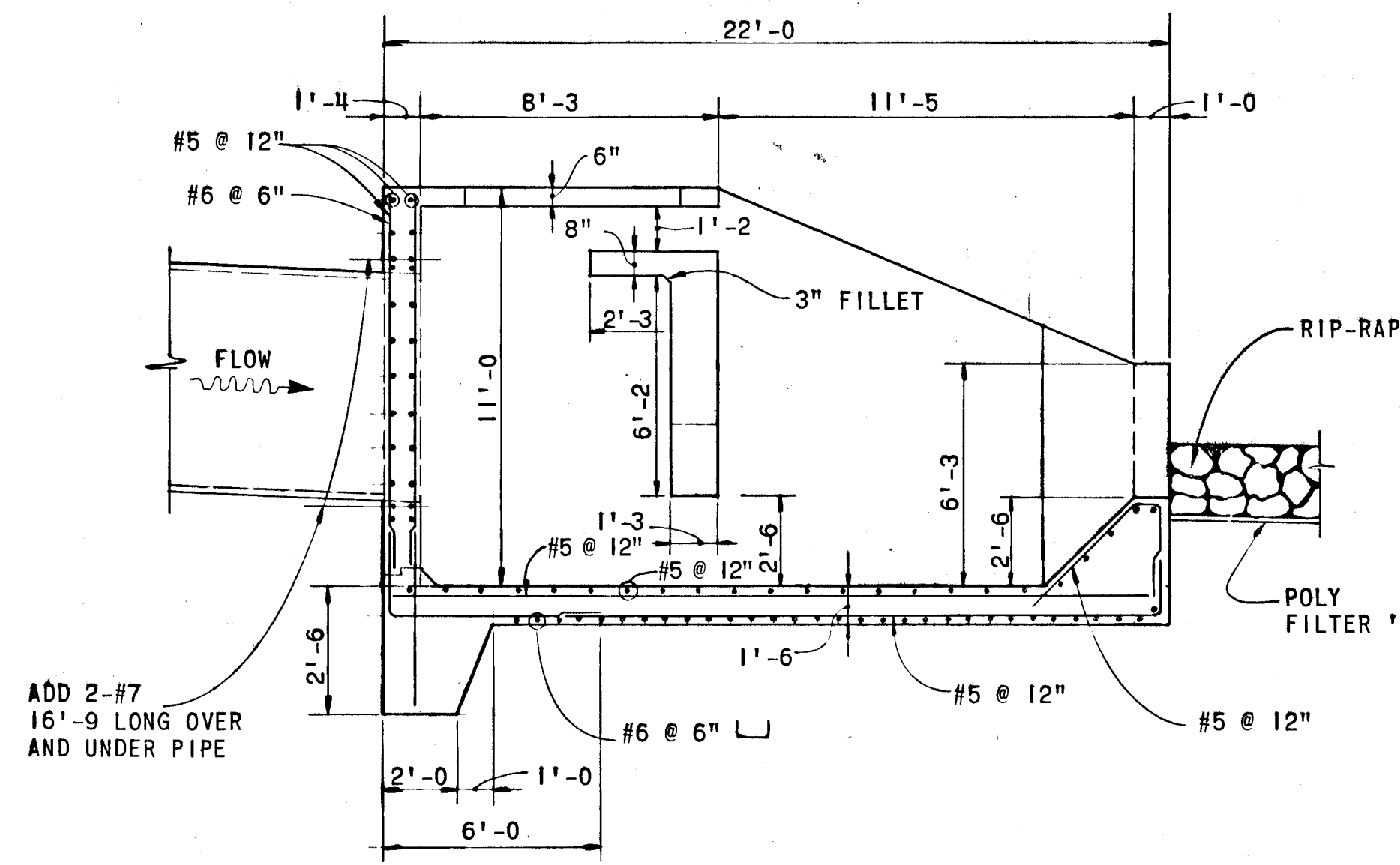
NOTE: INVERT AT MULTI PLATE PIPE ARCH II IS 6" LOWER THAN MULTI PLATE PIPE ARCH I AND III



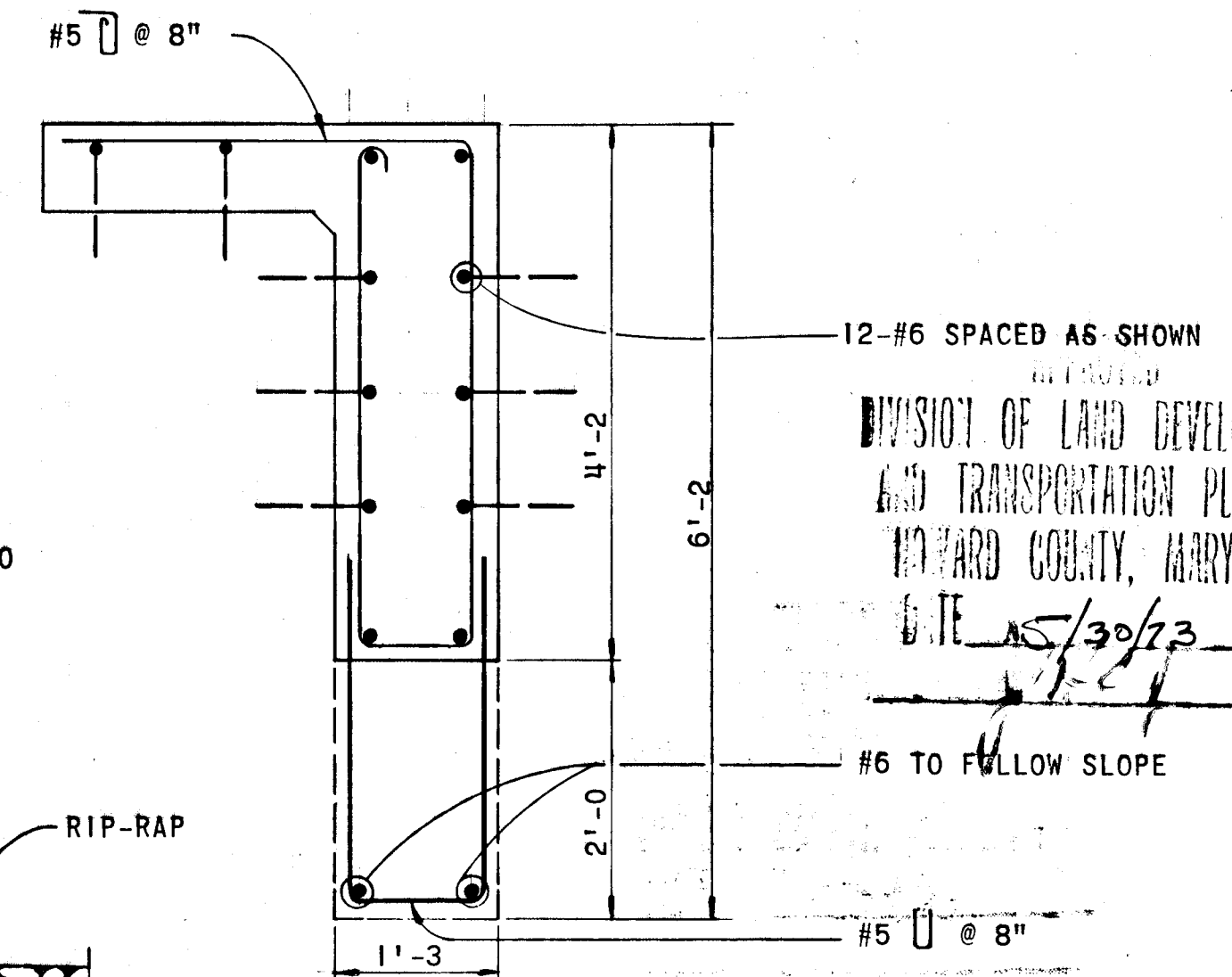
**PLAN**  
ENERGY DISSIPATOR  
SCALE: 1/4" = 1'-0"



**SECTION 'B-B'**  
SCALE: 1/4" = 1'-0"



**SECTION 'A-A'**  
SCALE: 1/4" = 1'-0"



**SECTION 'C-C'**  
SCALE: 3/4" = 1'-0"

DEPARTMENT OF PUBLIC WORKS

*W. O. Fulbert* 5-30-73  
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

GREEN ASSOCIATES, P.C.  
CONSULTING ENGINEERS  
TOWSON, MARYLAND

Rev. Date: Rev. No.: Revision Description:

**COLUMBIA**  
MARYLAND

6TH ELECTION DISTRICT HOWARD COUNTY

HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND

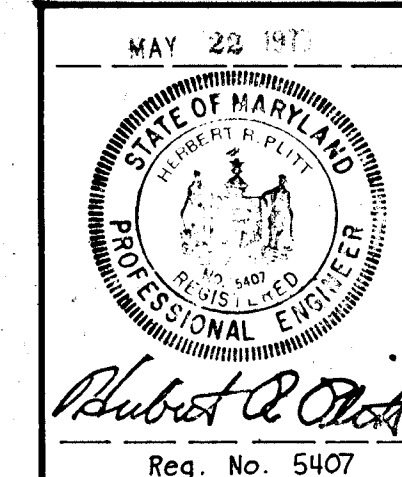
PROJECT AREA: DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD

PROJECT TITLE: HEADWALL FOR MULTI PLATE PIPE ARCH AND ENERGY DISSIPATOR

Des. By: K.L. Date: AS NOTED

Drawn By: J.F.T. Date: MAY 22, 1973

Checked By: J.T.J. Date: APPROVED



STABILIZATION NOTES

1. TEMPORARY COVER ON SEDIMENT CONTROL STRUCTURES SHALL BE CARRIED OUT AS FOLLOWS.

A. SEEDBED PREPARATION

1. APPLY 2,000 POUNDS PER ACRE OR 46 POUNDS PER 1,000 SQ. FT. OF PULVERIZED DOLOMITIC LIMESTONE AND 500 TO 800 POUNDS PER ACRE OR 11.5 TO 18.4 POUNDS PER 1,000 SQ. FT. OF 10-10-10 OR EQUIVALENT FERTILIZER. IF SOILS ARE REASONABLY UNIFORM, LIME AND FERTILIZER ACCORDING TO SOIL TEST.
2. HARROW OR DISC LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE FIRM SEEDBED HAS BEEN PREPARED. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

B. SEEDING - APPLY SEED (ANNUAL RYEGRASS @ 35#/AC.) UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDRO-SEEDER (SLURRY INCLUDES SEED AND FERTILIZER) PREFERABLY ON A FIRM, MOIST SEEDBED. NORMAL COVERAGE IS FROM 1/4 TO 1/2 INCH.

C. MULCHING

1. MULCH MATERIALS SHOULD BE UNWEATHERED, UNCHOPPED, SMALL GRAIN WOOD FREE STRAW (PREFERABLY WHEAT) AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE, OR 70 TO 90 POUNDS PER THOUSAND SQ. FT.
2. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND PLACE 3 BALES, 100 LBS., OF MULCH FOR DISTRIBUTION WITHIN EACH SECTION.
3. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES AND COSTS. ON SLOPING LAND, PRACTICE B AND C BELOW SHOULD BE DONE ON THE CONTOUR WHEREVER POSSIBLE.

(A) MULCH NETTINGS - STAPLE LIGHT WEIGHT, JUTE, COTTON OR PLASTIC NETTINGS TO THE SOIL SURFACE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG.

(B) SLIT - WITH A SQUARE POINTED SPADE CUT MULCH INTO THE SURFACE SOIL IN ROWS 18 INCHES APART.

(C) MULCH ANCHORING TOOL - A TRACTOR DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SURFACE SOIL. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. TOOL PENETRATION SHOULD BE ABOUT 2 INCHES.

(D) ASPHALT MULCH TIE-DOWN

LIQUID ASPHALT - RAPID CURING (RC-70, RC-250 OR RC-800) OR MEDIUM CURING (MC-250 OR MC-800)  
APPLY .1 GAL/SQ. YD.

II. PERMANENT SEEDING ON ALL GRASSED AREA TO BE CARRIED OUT AS FOLLOWS

A. SEEDBED PREPARATION

1. APPLY 2,000 POUNDS PER ACRE OR 46 POUNDS PER 1,000 SQ. FT. OF PULVERIZED DOLOMITIC LIMESTONE, 500 TO 1,000 POUNDS PER ACRE OR 11.5 TO 23 POUNDS PER 1,000 SQ. FT. OR 0-20-0, SUPERSHOSPHATE, OR ITS EQUIVALENT AND 1,000 SQ. FT. OF 10-10-10 FERTILIZER OR ITS EQUIVALENT.

HARROW OR DISC LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 2-3 INCHES. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE, FIRM SEEDBED HAS BEEN PREPARED.

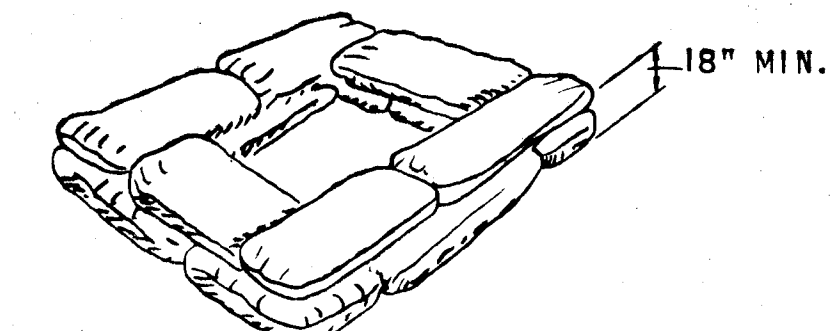
B. SEEDING

1. APPLY SEED (60% KENTUCKY 31 TALL FESCUE AND 40% KENTUCKY BLUEGRASS) UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER) ON A FIRM SEEDBED AT A RATE OF 200 # AC.

C. MULCHING - SEE I-C ABOVE.

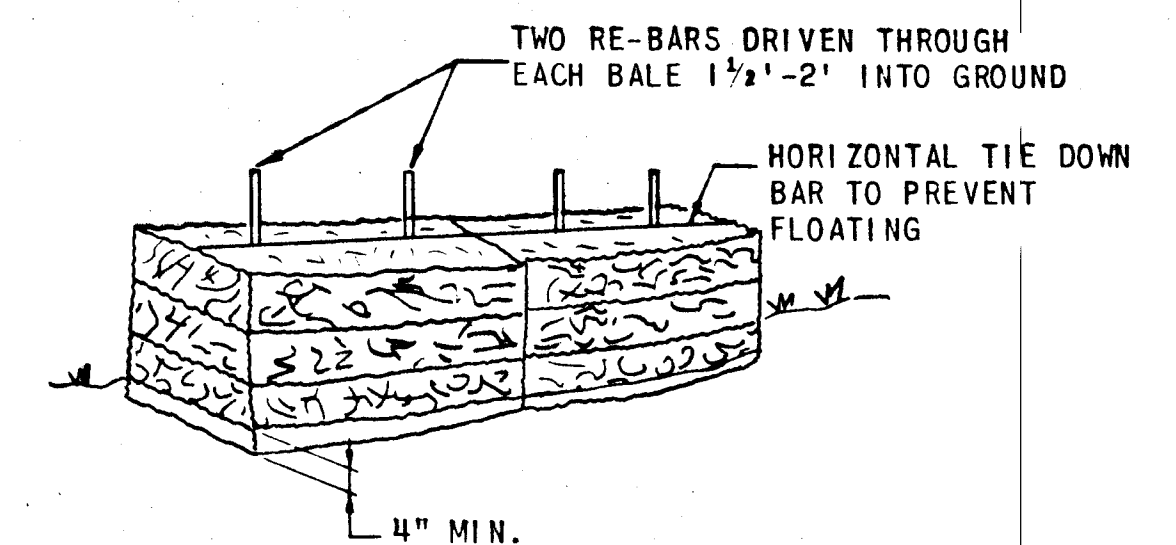
GENERAL SEDIMENT CONTROL NOTES

1. IMMEDIATELY FOLLOWING THE START OF GRADING OPERATIONS SEDIMENT BASINS WITH ROCK BERMS WILL BE CONSTRUCTED IN LOCATION AS SHOWN ON PLAN SH. 4 & 5.
2. ALL STRUCTURAL SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD SOIL CONSERVATION DISTRICT.
3. NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AT LEAST 24 HOURS BEFORE STARTING ANY WORK. PHONE 465-3180 OR 464-5000, EXT. 328.
4. SEDIMENT TRAPPED IN BASINS OR OTHER TRAPS WILL BE REMOVED UPON REACHING A SPECIFIED DEPTH AS SHOWN AS A PART OF NORMAL MAINTENANCE PROCEDURE.
5. CONSTRUCTED BERMS, DIKES, DAMS ETC. WILL BE COMPACTED BY SEVERAL PASSES WITH THE CONSTRUCTING EQUIPMENT (BULLDOZER, BACKHOE OR OTHER HEAVY EQUIPMENT OR BY USE OF A SUITABLE ROLLER).
6. ALL FILL MATERIAL SHALL BE FREE OF DECOMPOSABLE MATERIAL.
7. ALL STORM DRAINAGE INLETS ARE TO BE TEMPORARILY CAPPED TO PREVENT ENTRY OF SEDIMENT CARRYING RUN OFF WATER UNTIL VEGETATIVE MEASURES AND/OR PAVING IS ESTABLISHED AS PLANNED.
8. DIVERSION BERMS WILL BE REBUILT AS THE FILLING OPERATION PROCEEDS IN LIFTS. SILT TRAPS, SWALES AND BERMS WILL BE RETAINED AFTER FINAL LIFT.
9. DISTURBED AREAS ARE TO BE MAINTAINED IN A ROUGH GRADED CONDITION UNTIL PROPER WEATHER CONDITIONS WILL PERMIT THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
10. NO SLOPES SHALL BE STEEPER THAN 1' VERTICAL ON 3' HORIZONTAL (3:1).
11. 18" FLEXIBLE TUBE DOWN DRAIN AND PANS AS MANUFACTURED BY "RELIANCE PLASTICS & CHEMICAL COMPANY" OR AS APPROVED EQUAL.
12. ON-SITE INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES, INCLUDING CLEAN OUT OF SEDIMENT TRAPS, BASINS AND BERMS, AND PROPER ESTABLISHMENT OF ALL PLANNED VEGETATIVE MEASURES WILL BE THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE ON THE SITE, ON A CONTINUING, DAY TO DAY BASIS.



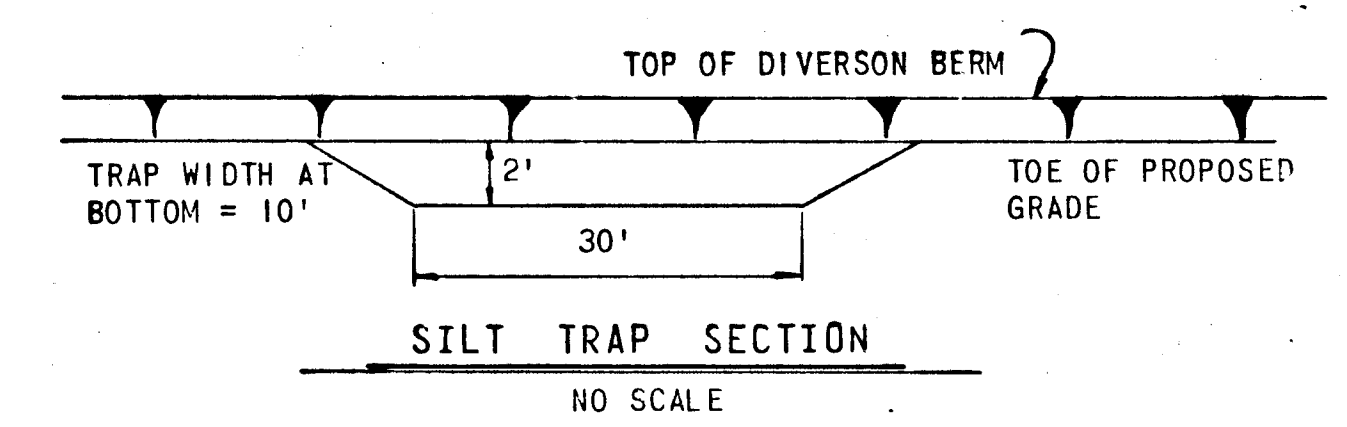
NOTE: FORM 18" HIGH DIKE OF SAND BAGS AROUND INLET. STAGGER SAND BAGS.

SAND BAG DETAIL  
NO SCALE

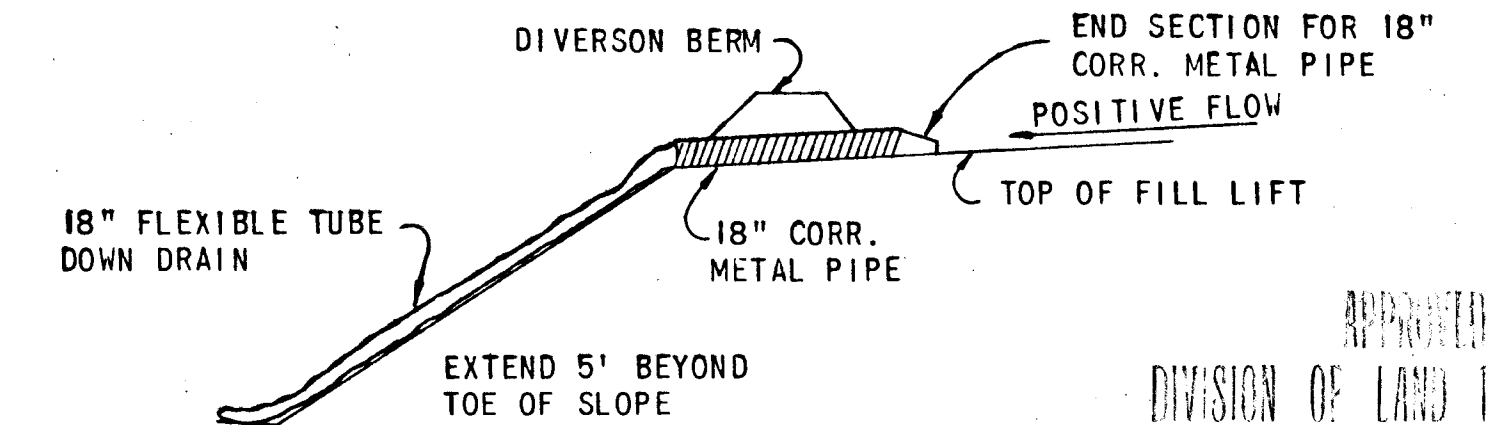


NOTE: BALES MAY BE WIRED TO POULTRY OR SNOW FENCE

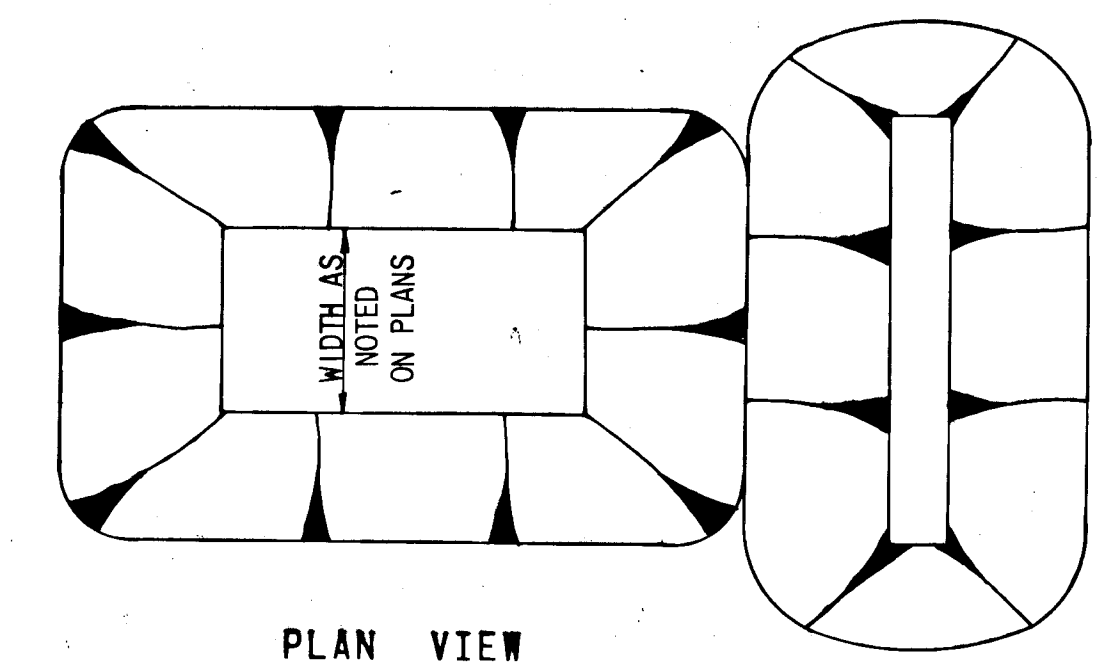
TYPICAL STRAW BALE DETAIL  
NO SCALE



SILT TRAP SECTION  
NO SCALE

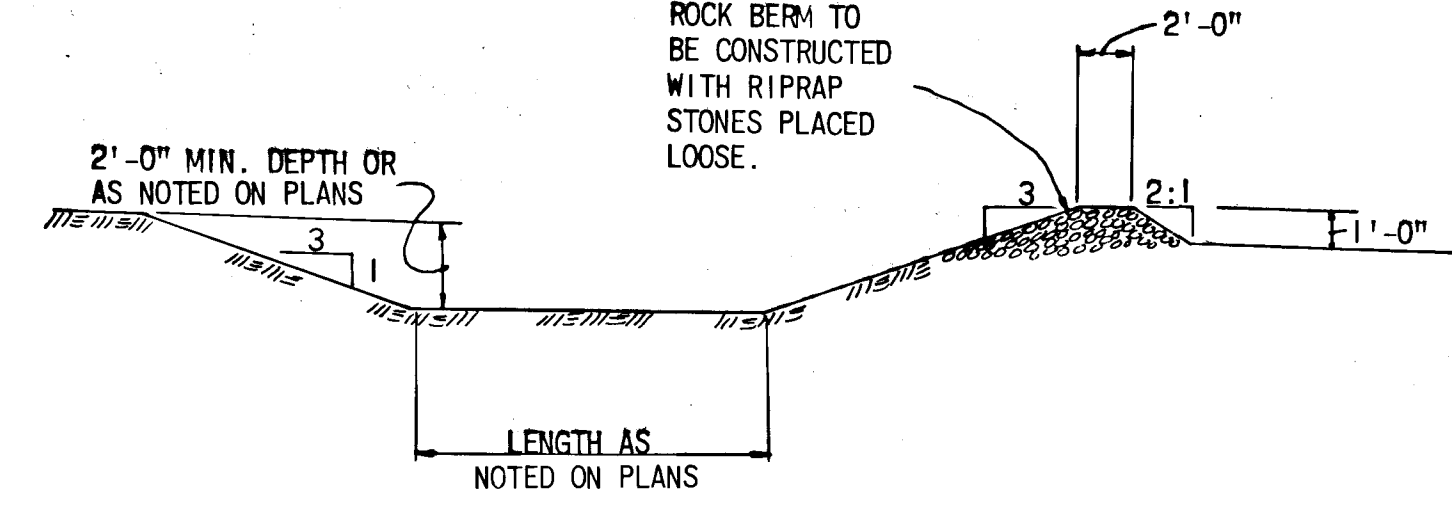


FLEXIBLE TUBE DOWN DRAIN  
NO SCALE

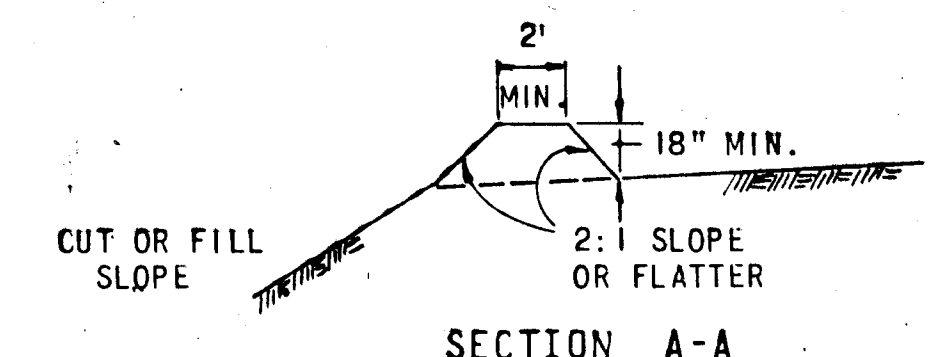


PLAN VIEW

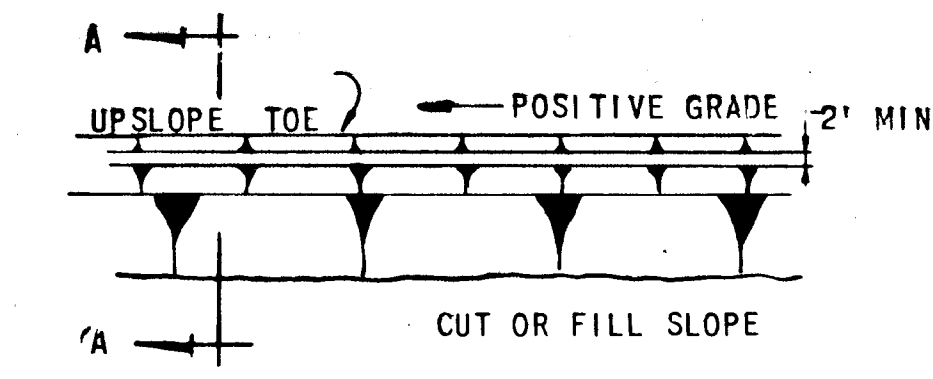
SEDIMENT BASIN WITH ROCK BASIN  
NO SCALE



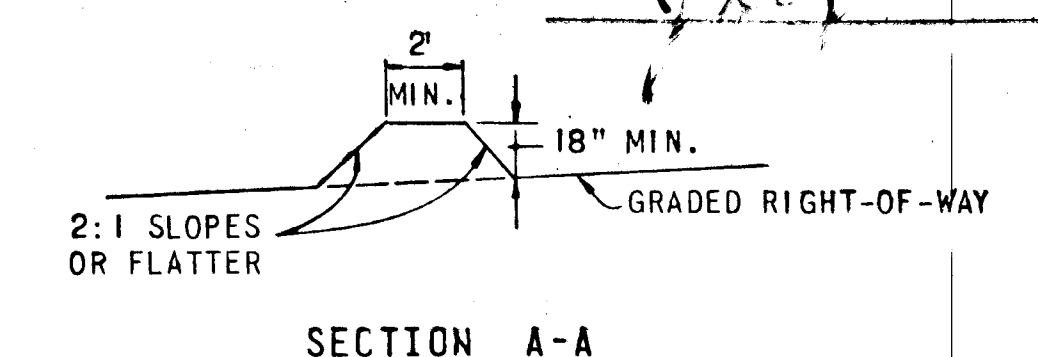
CROSS SECTION



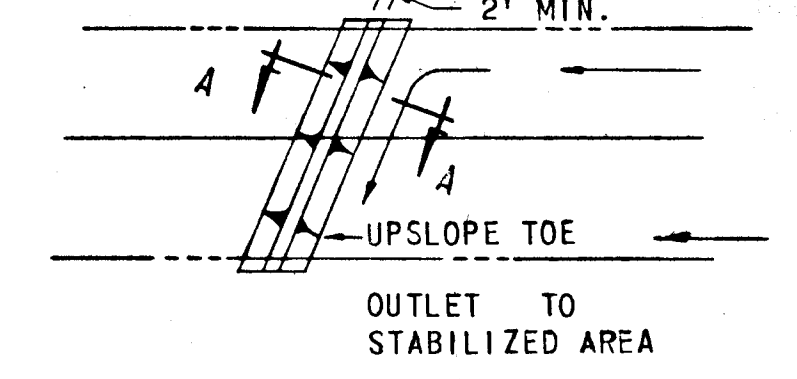
SECTION A-A  
NO SCALE



PLAN VIEW  
DIVERSION BERM  
NO SCALE



SECTION A-A  
NO SCALE



PLAN VIEW  
INTERCEPTOR BERM  
NO SCALE

APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5/30/73

ENGINEER'S CERTIFICATE

I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*Robert R. O'Neil*  
Signature of Engineer  
Date

DEVELOPER'S CERTIFICATE

I hereby certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

*J. A. Rogers, PROJ MGR*  
Signature of Developer  
3-16-73  
Date

Reviewed by *Howard S.C.D.* and meets Technical Requirements  
*Charles E. Nally* 5/30/73  
Signature Date

U.S. Soil Conservation Service  
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
*Robert W. Zuehl* 5/30/73  
Approved Date  
Howard S.C.D.

GREEN ASSOCIATES, INC.  
CONSULTING ENGINEERS  
TOWSON, MARYLAND

Rev Date	Rev No	Revision Description

**COLUMBIA**  
MARYLAND  
6TH ELECTION DISTRICT HOWARD COUNTY  
OWNER AND DEVELOPER  
**HOWARD RESEARCH AND DEVELOPMENT CORP.**  
COLUMBIA, MARYLAND

PROJECT AREA DOBBIN ROAD AND PROPOSED OLD MONTGOMERY ROAD

PROJECT TITLE SEDIMENT CONTROL DETAILS

Des. By	Scale AS SHOWN	Dwg. No. 1 of 1
Drn. By	Date MAY 22 1973	C.C.F. No.
Chk. By	Approved	

#1310