

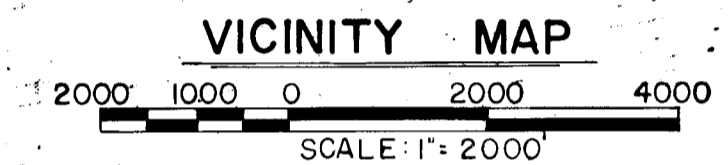
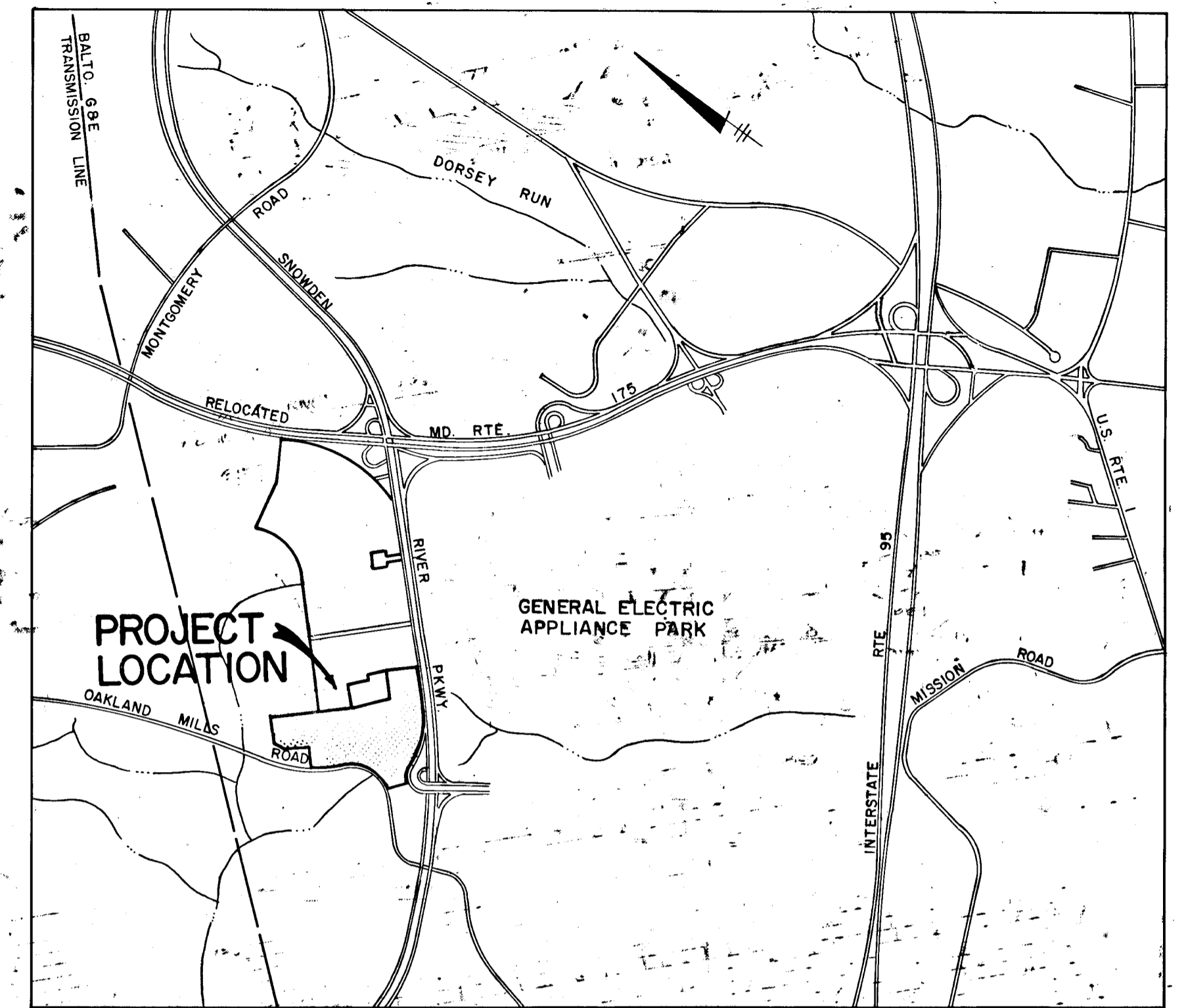
# COLUMBIA

HOWARD COUNTY, MARYLAND  
6TH ELECTION DISTRICT

## ROAD CONSTRUCTION PLANS

SIELING INDUSTRIAL CENTER  
SECTION I AREA I  
E.G.U.  
SECTION I AREA 4  
OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND



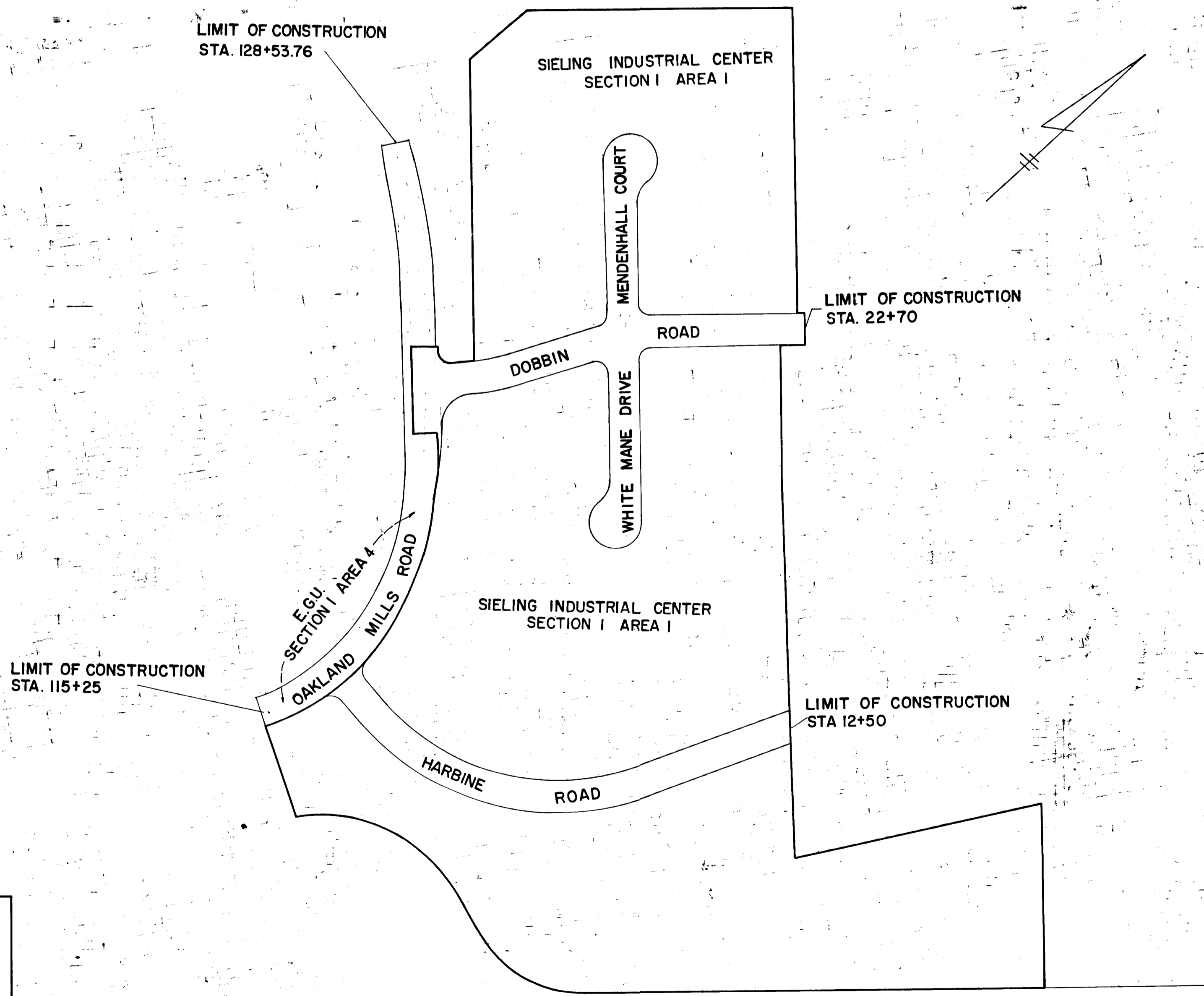
### GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. 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.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. 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
5. BRICK BULKHEAD SHALL BE INSTALLED IN ALL STORM DRAIN STUBS.
6. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
7. ALL STREET CURB RETURNS SHALL HAVE 35.0 RADIUS UNLESS OTHERWISE NOTED.
8. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
9. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.
 

OAKLAND MILLS ROAD	35 M.P.H.
DOBBIN ROAD	30 M.P.H.
MENDENHALL CT. & WHITE MANE DRIVE	25 M.P.H.
10. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
11. 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.
12. 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.
13. 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.
14. 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.

SHEET INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTION
3	TYPICAL SECTION & DETAILS
4	DRAINAGE AREA MAP
5	OAKLAND MILLS ROAD STA. 115+25 TO STA. 123+53.76
6	DOBBIN ROAD STA. 14+ TO STA. 22+70
7	WHITE MANE DRIVE STA. 1+00 TO STA. 11+75.02 & OUTFALL CHAIN
8	MENDENHALL COURT STA. 1+00 TO STA. 4+31.48
9	HARBINE ROAD STA. 1+00 TO STA. 12+67.69
10	STORM DRAIN PROFILES
11	STORM DRAIN PROFILES
1 OF 1	SEDIMENT CONTROL DETAIL

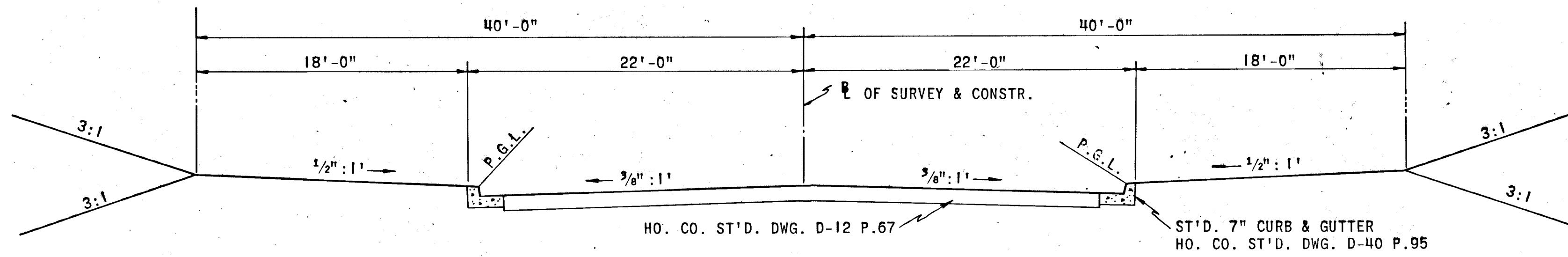


DEPARTMENT OF PUBLIC WORKS  
CHIEF, BUREAU OF HIGHWAYS \_\_\_\_\_ DATE \_\_\_\_\_

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

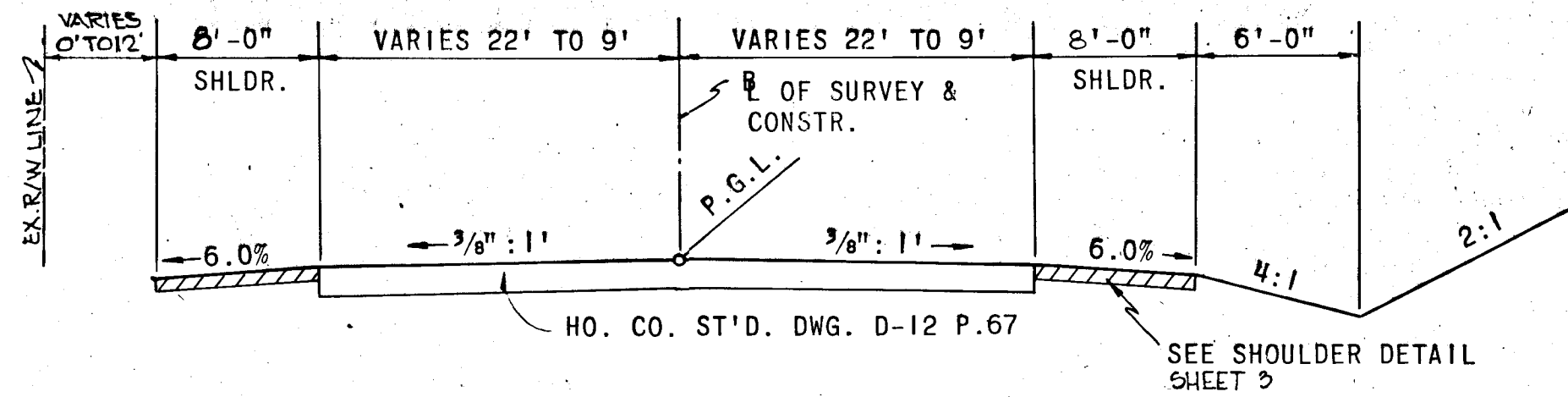
GREEN ASSOCIATES, INC  
CONSULTING ENGINEERS  
32 WEST ROAD  
BALTIMORE, MARYLAND

SEPT. 5, 1973  
Date  
Professional Engineer  
Reg. No. 5407



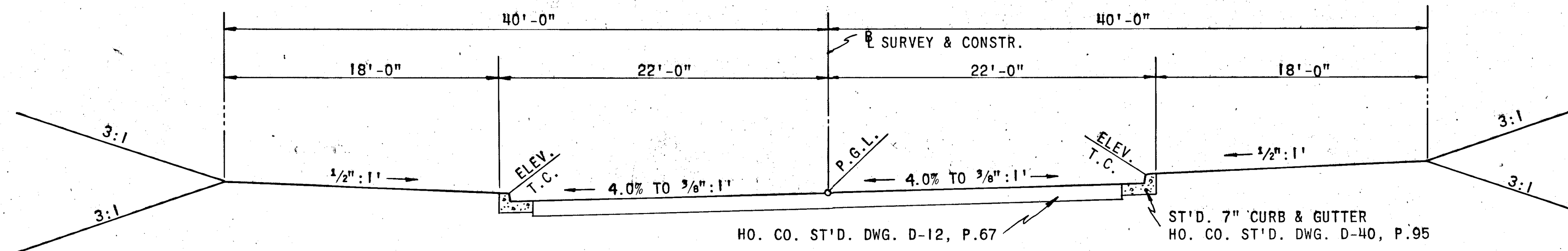
**WHITE MANE DRIVE**  
**DOBBIN ROAD, MENDENHALL COURT**

SCALE: 1" = 6'-0"



**OAKLAND MILLS ROAD**

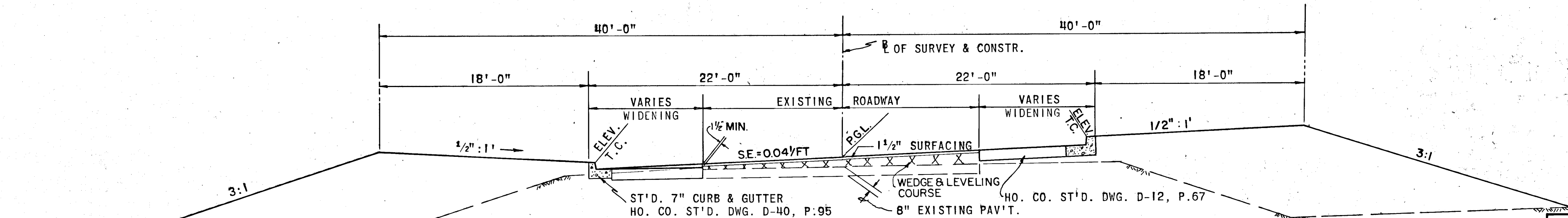
STA. 125+47.64 TO STA. 129+  
 SCALE: 1" = 6'-0"



**OAKLAND MILLS ROAD**

STA. 120+50 TO STA. 125+12.21  
 SCALE: 1" = 6'-0"

**NEW CONSTRUCTION**



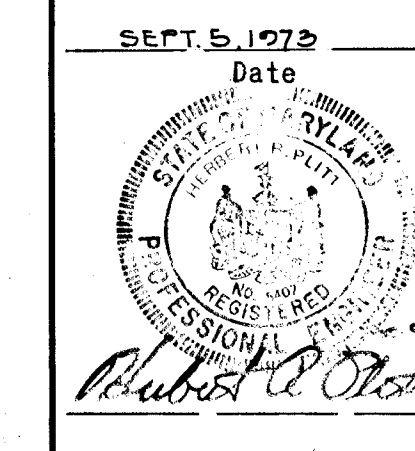
**OAKLAND MILLS ROAD**

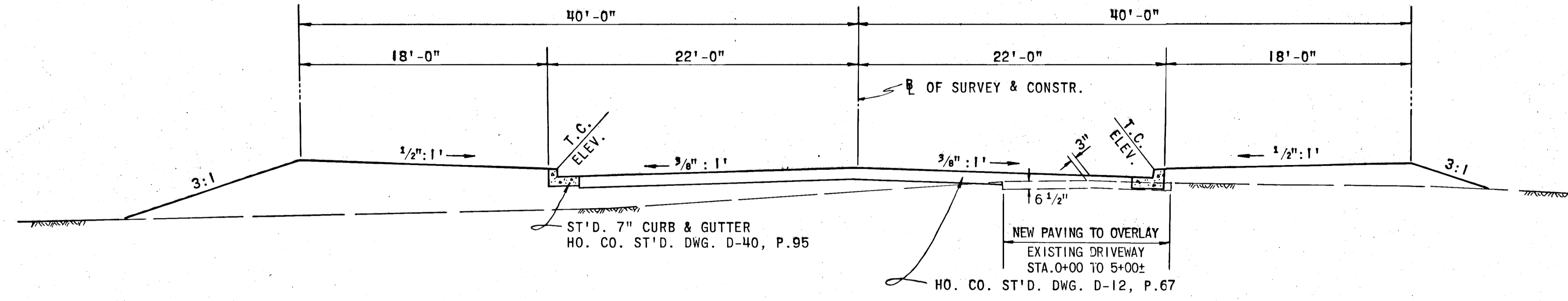
STA. 116+50 TO STA. 120+50  
 SCALE: 1" = 6'-0"

**BASE WIDENING & RESURFACING SECTION**

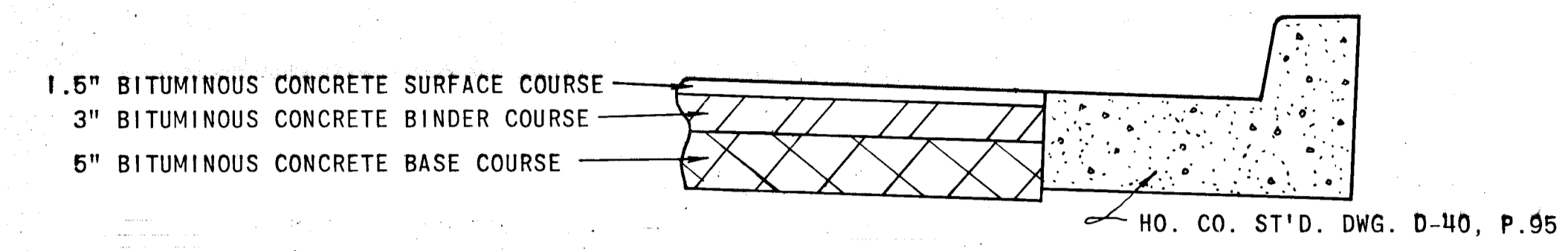
NOTE: SEE PROFILE SHEETS FOR ELEVATIONS  
 T.C. IN SUPERELEVATED SECTIONS.

DEPARTMENT OF PUBLIC WORKS	
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	
REVISE OAKLAND MILLS RD TYPICAL	
Rev. Date	Rev. No.
COLUMBIA MARYLAND	
6TH ELECTION DISTRICT HOWARD COUNTY	
HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYLAND	
PROJECT AREA	SIELING INDUSTRIAL CENTER SECTION 1 AREA 1
PROJECT TITLE	TYPICAL SECTION
Des. By F.T. & K.L.	Scale AS SHOWN
Drawn By J.D.	Date SEPT 5, 1973
Cal. By J.T.J.	Approved

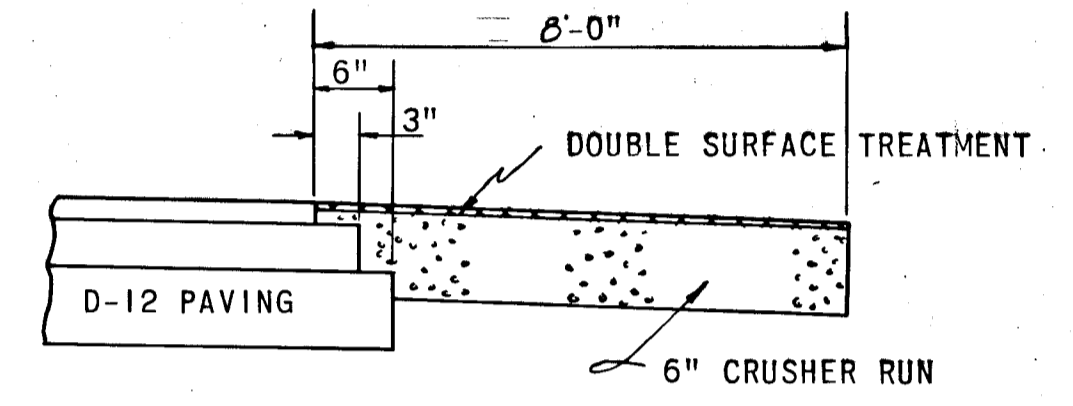




**HARBINE ROAD**  
STA. 0+00 TO STA. 12+  
SCALE: 1" = 6'-0"

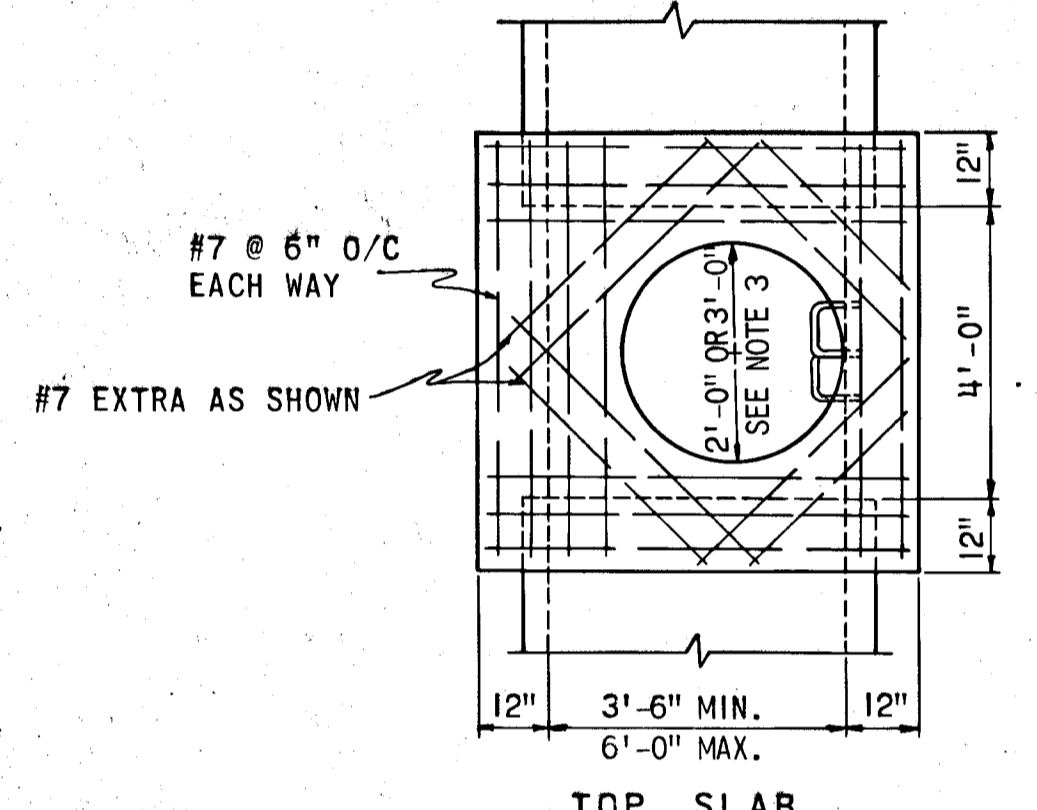


**PAVING DETAIL**  
HO. CO. ST'D. DWG. D-12, P.67

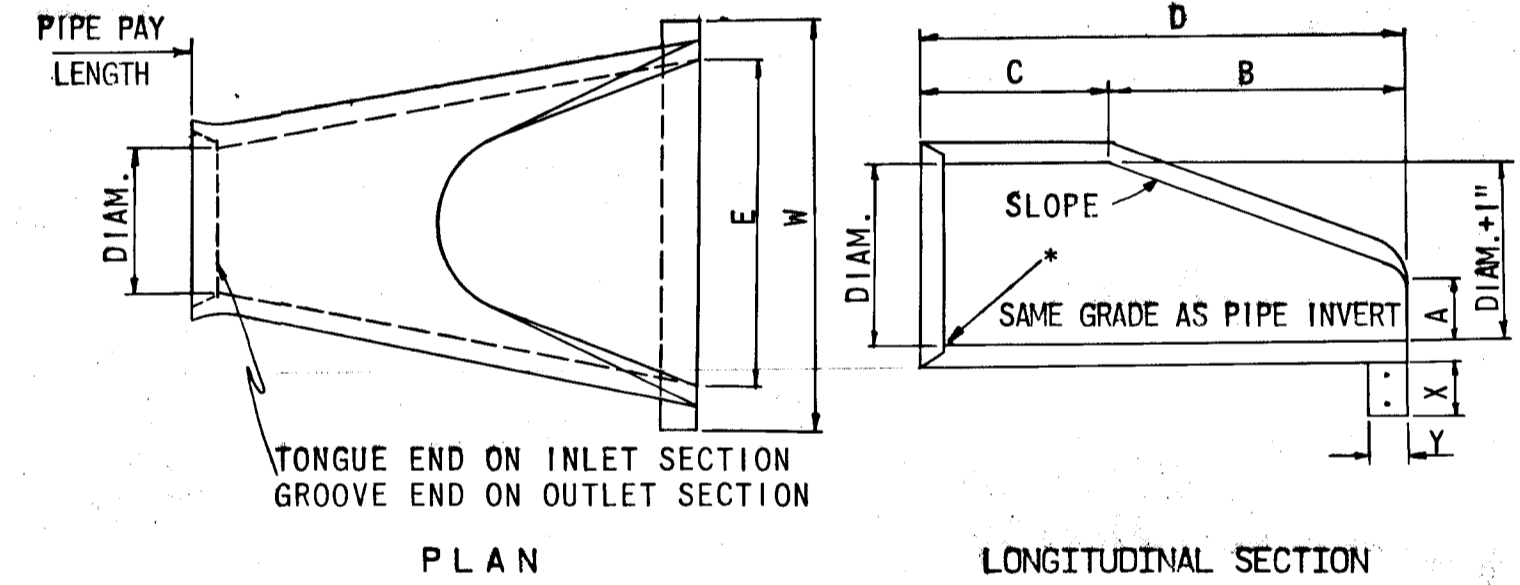
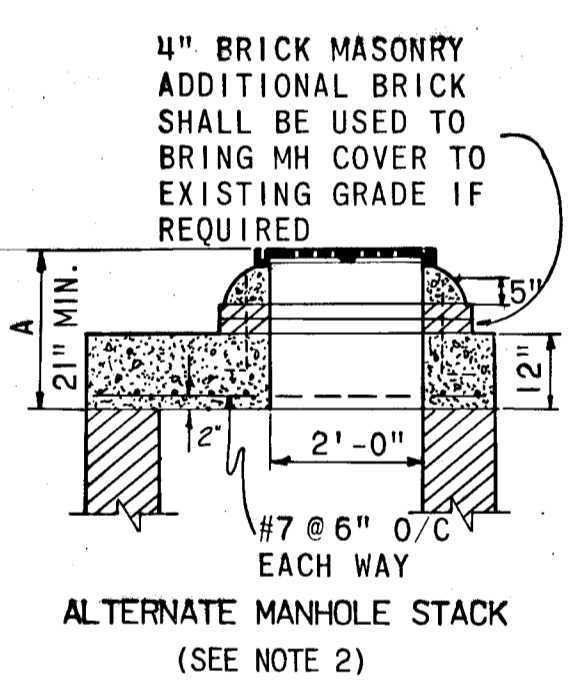


**SHOULDER DETAIL**

TABLE OF DIMENSIONS									
		CONCRETE END SECTION					CONC. FOOTER		
DIAM.	SLOPE	A	B	C	D	E	W	Y	
21"	3:1	9"	3'-0"	3'-1 1/2"	5'-1 1/2"	3'-6"	4'-0"	12"	9"
24"	3:1	11"	3'-7"	2'-8"	6'-3"	4'-0"	5'-0"	15"	9"

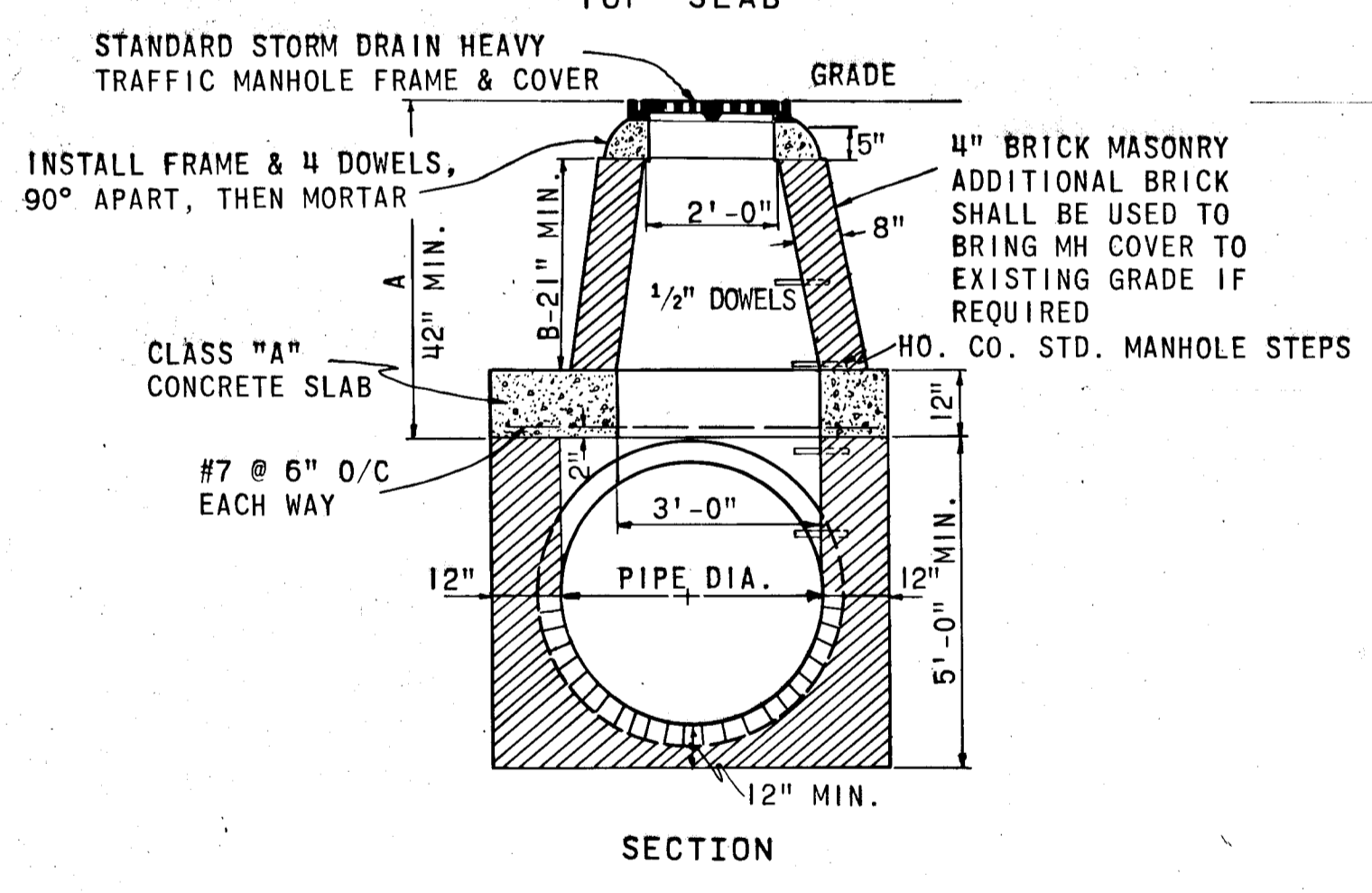


**NOTE:**  
1. WALLS, BOTTOM SLAB AND INVERT SHALL BE BRICK OR PLAIN CLASS "A" CONCRETE POURED IN PLACE.  
2. WHERE "A" IS LESS THAN 3'-6" USE ALTERNATE MANHOLE STACK "B"

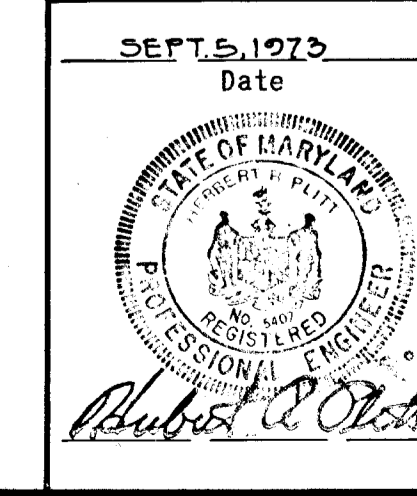


**NOTES:**  
1. END SECTIONS MUST BE REINFORCED TO CONFORM WITH CLASS IV PIPE.  
2. CONCRETE FOOTER SHALL BE USED.  
\* 1. INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATION TO BE NOTED ON CONSTRUCTION PLANS.  
\* 2. LOCATION OF STATION OFFSET

**NOTES:**  
1. BASE WILL BE PRIMED IN ACCORDANCE WITH C-30-3 AS PROVIDED IN THE HOWARD COUNTY 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.



DEPARTMENT OF PUBLIC WORKS		
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
<b>COLUMBIA</b> MARYLAND 6TH ELECTION DISTRICT HOWARD COUNTY		
HOWARD RESEARCH AND DEVELOPMENT CORP. COLUMBIA, MARYLAND		
PROJECT AREA	SIELING INDUSTRIAL CENTER SECTION 1 AREA 1	
PROJECT TITLE	TYPICAL SECTION & DETAILS	
Drawn By	F.T. & K.L.	Scale AS SHOWN
Checked By	J.D.	Date SEPT. 5, 1973
Engineer	J.T.J.	Approved



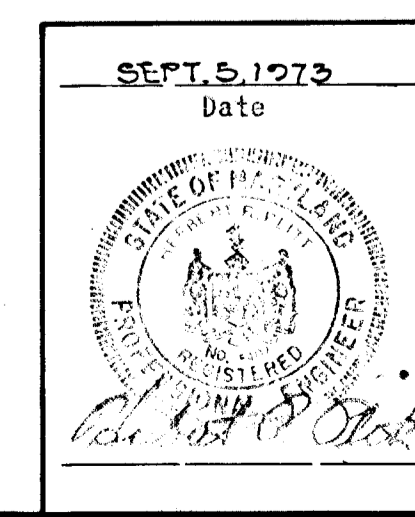
#62



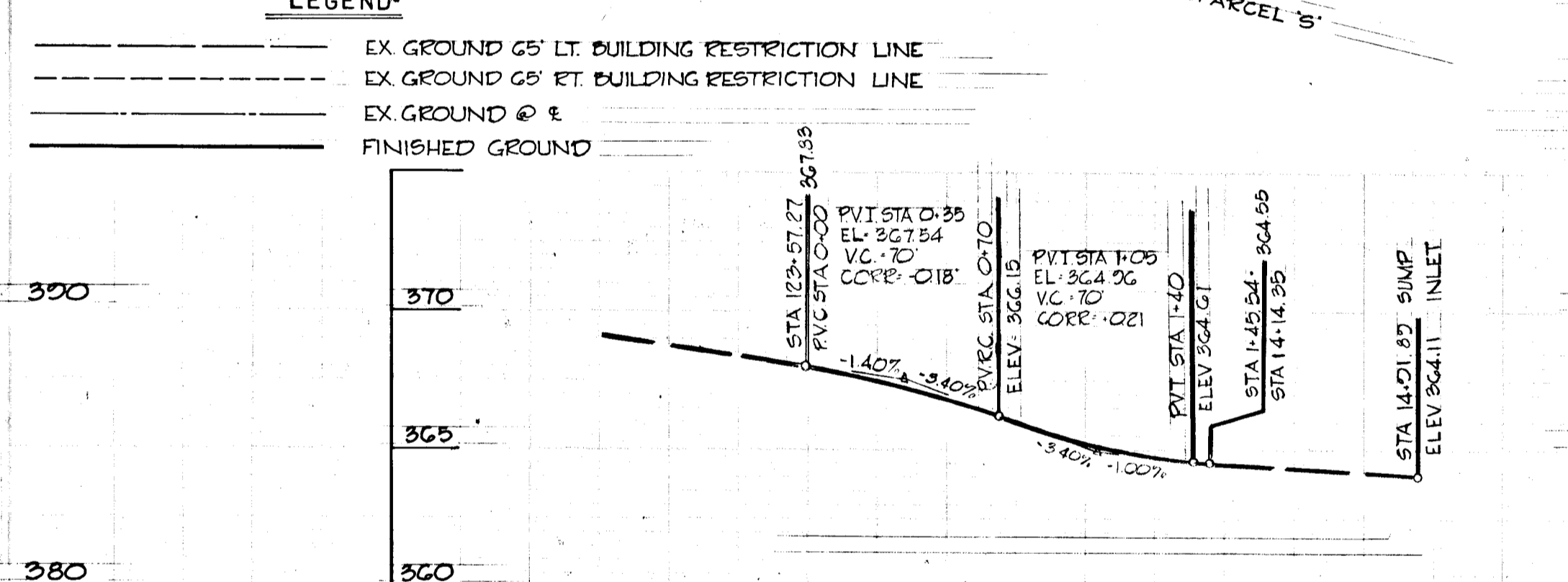
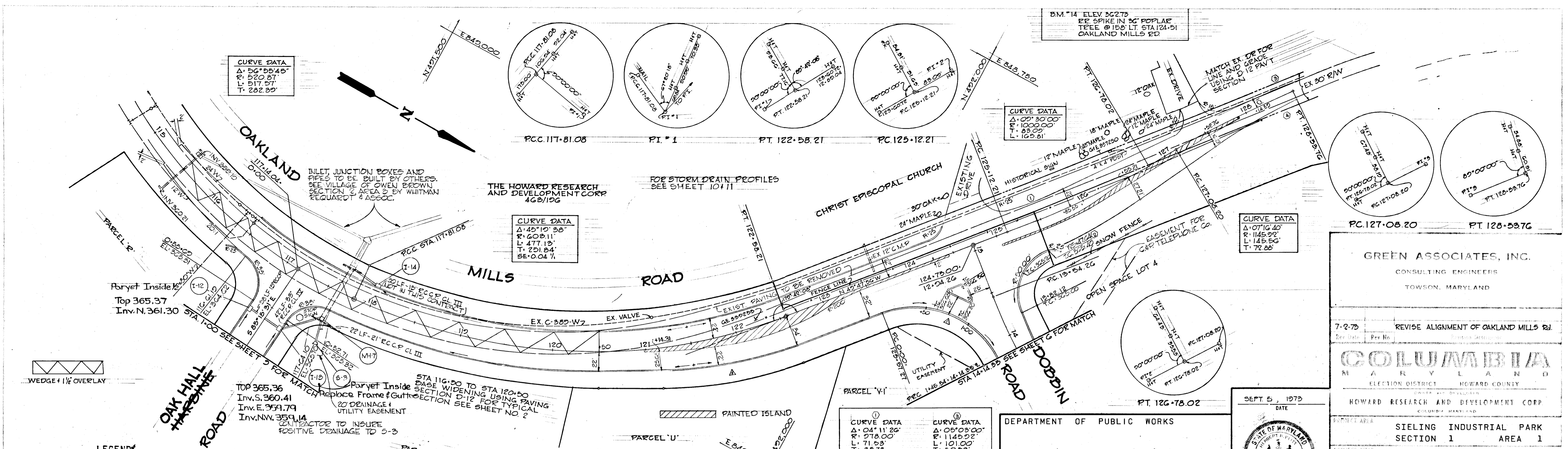


'C' FACTORS  
 60- R/W (COMPOSITE)  
 30- INDUSTRIAL

DEPARTMENT OF PUBLIC WORKS	
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
<b>COLUMBIA</b> MARYLAND 6TH ELECTION DISTRICT    HOWARD COUNTY <small>OWNER AND DEVELOPER</small> HOWARD RESEARCH AND DEVELOPMENT CORP. <small>COLUMBIA, MARYLAND</small>	
PROJECT AREA	SIELING INDUSTRIAL CENTER SECTION 1    AREA 1
PROJECT TITLE	DRAINAGE AREA MAP
Des. By	F.T. & K.L.      Scale: 1" = 100'      Draw No. 4 of 11
Drawn By	J.D.      Date: SEPT. 5, 1973      P.C.C. No.
Checked By	J.T.J.      Approved



#62



NO.	STATION	OFFSET	REMARKS	STRUCTURE		SCHEDULE		REMARKS
				INV. IN	INV. OUT	T.C.P. ELEV.		
1	124+33.82	39.00'	ALL OFFSETS ARE TO RADIUS POINT			361.34	365.45	HO.CO. DWG. D-99 PG. 154
2	124+48	39.00'				359.26	365.47	HO.CO. DWG. D-99 PG. 154
3	13+46.70	27.00'				361.00	365.25	HO.CO. DWG. 64-A PG. 119A
								SEE DETAIL
								SEE DETAIL

76-BUILT  
 446-5-77 6-30-78

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

7-2-78 REVISE ALIGNMENT OF OAKLAND MILLS RD.  
 Date: Per No. Station Section

**COLUMBIA**  
 MARYLAND  
 ELECTION DISTRICT HOWARD COUNTY

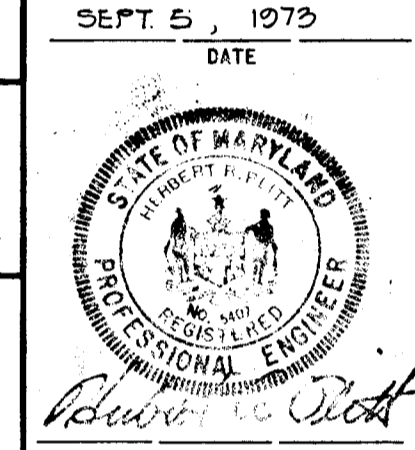
HOWARD RESEARCH AND DEVELOPMENT CORP.  
 COLUMBIA, MARYLAND

PROJECT AREA: SIELING INDUSTRIAL PARK SECTION 1 AREA 1

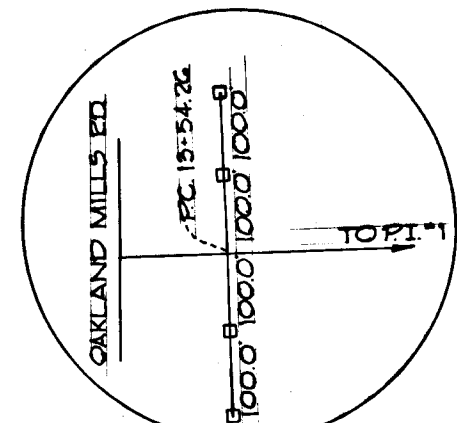
PROJECT TITLE: OAKLAND MILLS ROAD STA. 115+00 TO STA. 128+53.76

Drawn By: F.T.&K.A.L. Scale: AS SHOWN Date: SEPT. 5, 1978 Sheet No: 5 of 11  
 Checked By: J.D. Date: SEPT. 5, 1978 C.C.F. No.  
 Approved By: J.T.J. Date:

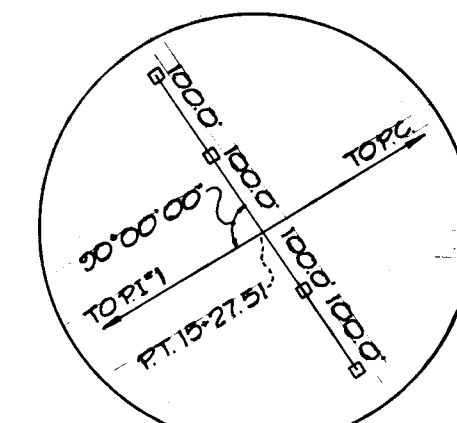
DEPARTMENT OF PUBLIC WORKS  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION DATE



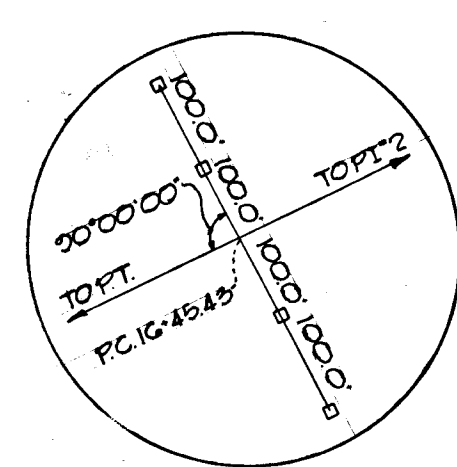




REF. PC. 13+54.26



REF. PT. 15+27.51



REF. PC. 16+45.45

**CURVE DATA**  
 $\Delta = 15^\circ 09' 20''$   
 $R = 520.87$   
 $L = 119.25$   
 $T = 87.49$

EASEMENT FOR  
 C&P TELEPHONE CO.

STA 1+00  
 N.C.

REF. STA 1+00 M.C.

**LEGEND**

- EX. GROUND G5' LT. BUILDING RESTRICTION LINE
- EX. GROUND G5' RT. BUILDING RESTRICTION LINE
- EX. GROUND @ E
- FINISHED GROUND

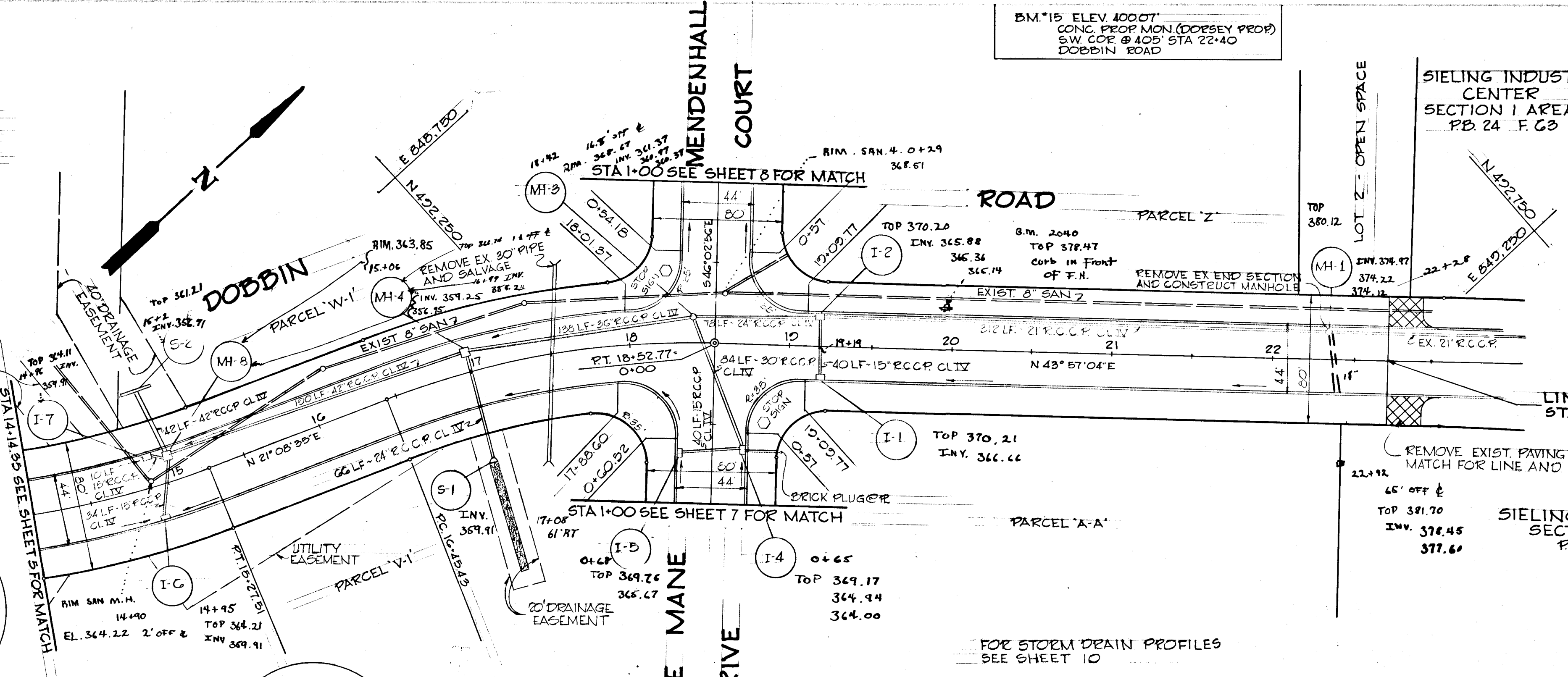
REF. STA 1+00 W.M.D.

**CURVE DATA**  
 $\Delta = 22^\circ 40' 20''$   
 $R = 520.87$   
 $L = 207.85$   
 $T = 109.06$

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

**PROFILE**  
 SCALE: 1" = 5' VERT  
 SCALE: 1" = 50' HORIZ

BM #15 ELEV. 400.07  
 CONC. PROP. MON. (DOSEY PROP.)  
 SW. COR. @ ADD. STA 22+40  
 DOBBIN ROAD



STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
I-1	DBL. 'S' COMB.	19+18 DOBBIN RD. RT.	366.80	370.22	HO.CO. DWG. D-99 PG. 154	
I-2	DBL. 'S' COMB.	19+18 DOBBIN RD. LT.	365.00	370.22	HO.CO. DWG. J-99 PG. 154	
I-4	DBL. 'S' COMB.	0+65.5 WHITE MANE DR.	363.87	369.14	HO.CO. DWG. D-99 PG. 154	
I-5	DBL. 'S' COMB.	0+68 WHITE MANE DR. RT.	365.52	369.14	HO.CO. DWG. D-99 PG. 154	
I-6	DBL. 'S' COMB.	14+92 DOBBIN RD. -RT.	360.00	364.11	HO.CO. DWG. D-99 PG. 154	
I-7	DBL. 'S' COMB.	14+92 DOBBIN RD. -LT.	360.00	364.11	HO.CO. DWG. D-99 PG. 154	
MH-1	ST'D. MANHOLE	22+35 DOBBIN RD.-18'LT	374.20	TOP = 380.30	HO.CO. DWG. D-103 PG. 158	
MH-3	ST'D. MANHOLE	18+40 DOBBIN RD.-16'LT	360.61	TOP = 368.90	HO.CO. DWG. D-103 PG. 158	
MH-4	SPECIAL MANHOLE	17+00 DOBBIN RD.-13'LT	358.19	TOP = 366.75	SEE DETAIL	
MH-8	SPECIAL MANHOLE	15+05 DOBBIN RD.-15'LT	357.04	TOP = 363.80	SEE DETAIL	
S-1	CONC. END SECT.	17+00 DOBBIN RD.-56'RT	360.02		SEE DETAIL	
S-2	ST'D. 'C' ENDWALL	15+00 DOBBIN RD -60' LT	356.66		H.O.CO. DWG. D-52 PG. 107	

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

7-7-75 REVISE ALIGNMENT OF DOBBIN ROAD  
 STA 12+04.26 TO STA. 15+52.77

**COLUMBIA**  
 MARYLAND  
 ELECTION DISTRICT HOWARD COUNTY

HOWARD RESEARCH AND DEVELOPMENT CORP.  
 COLUMBIA, MARYLAND

PROJECT AREA: SIELING INDUSTRIAL PARK  
 SECTION 1 AREA 1

PROJECT TITLE: DOBBIN ROAD  
 STA 14+14.35 TO 22+70

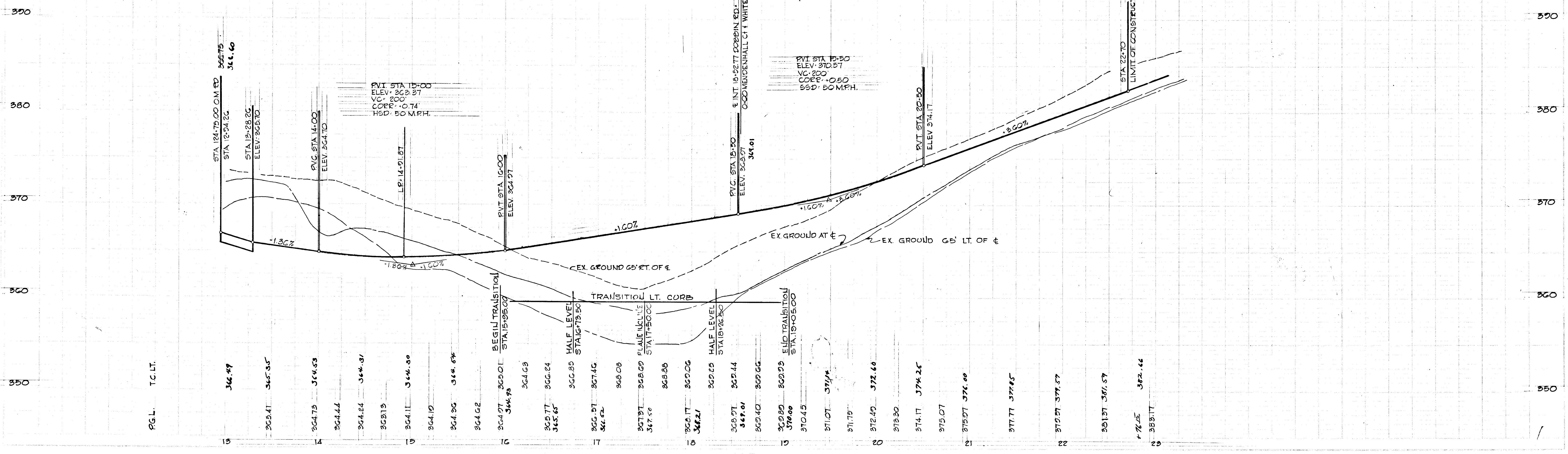
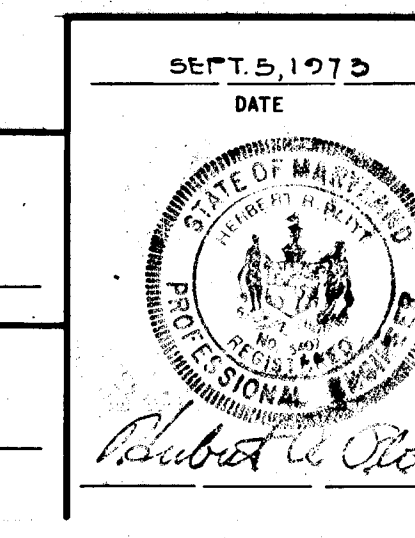
Des. By: F.T.&K.A.L. Scale: AS SHOWN Dwg. No. G of 11  
 Drawn By: J.D. Date: SEPT. 5, 1975 C.C.F. No.  
 Chk. By: J.T.J. Approved

DEPARTMENT OF PUBLIC WORKS

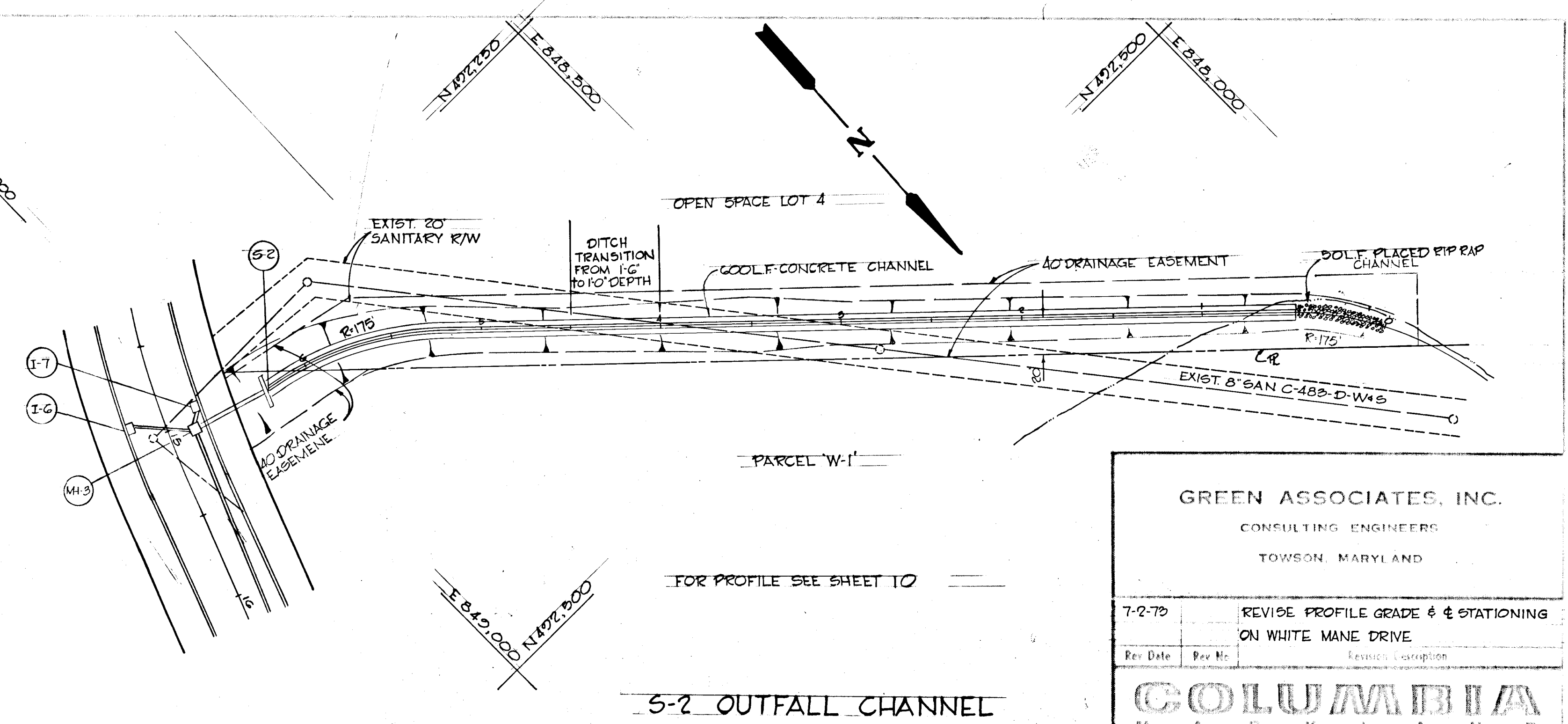
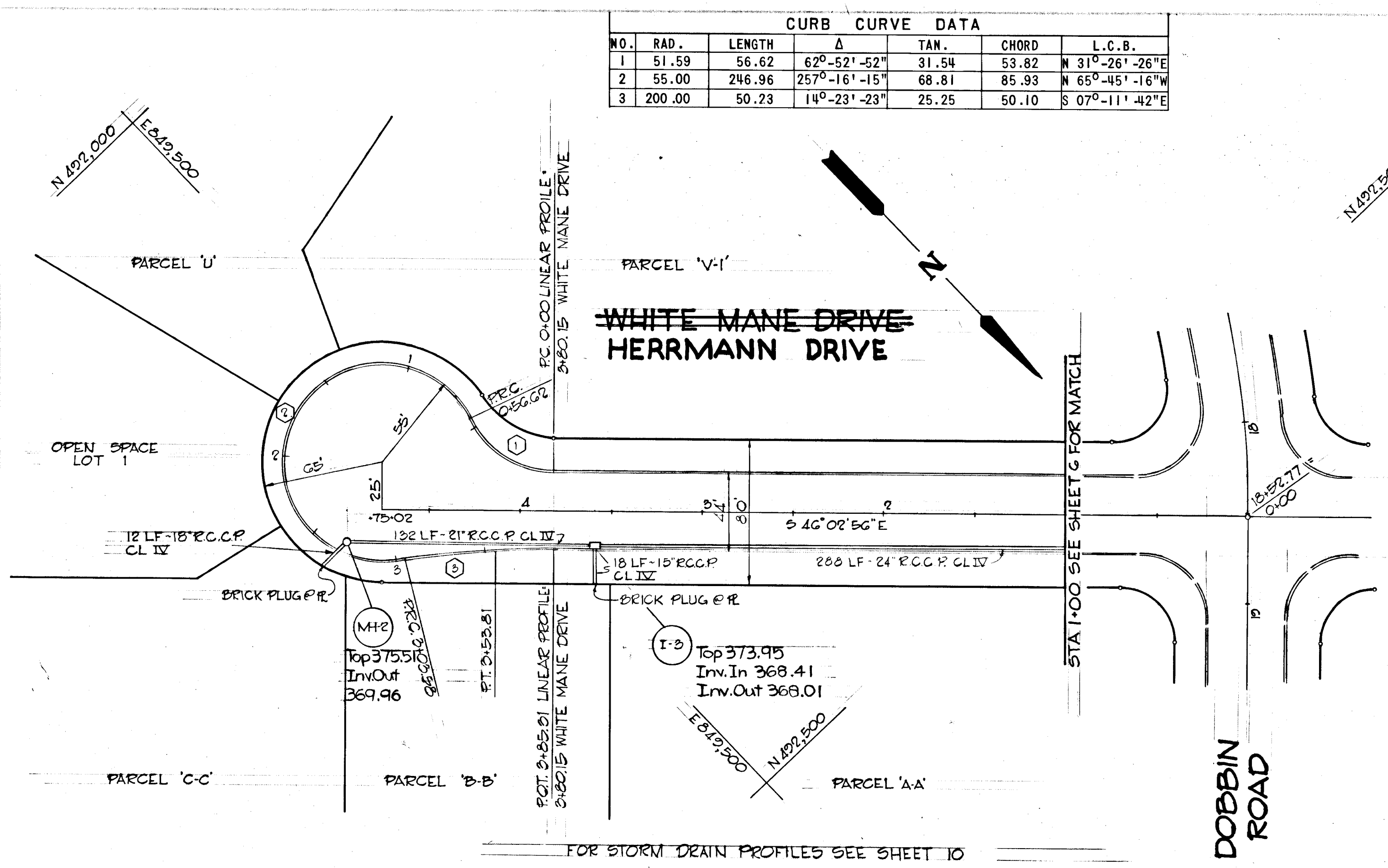
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION DATE



CURB CURVE DATA						
NO.	RAD.	LENGTH	Δ	TAN.	CHORD	L.C.B.
1	51.59	56.62	62°-52'-52"	31.54	53.82	N 31°-26'-26"E
2	55.00	246.96	257°-16'-15"	68.81	85.93	N 65°-45'-16"W
3	200.00	50.23	14°-23'-23"	25.25	50.10	S 07°-11'-42"E



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

7-2-73 REVISE PROFILE GRADE & STATIONING ON WHITE MANE DRIVE

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

PROJECT TITLE: **SIELING INDUSTRIAL PARK SECTION 1 AREA 1 HARRMANN DRIVE WHITE MANE DRIVE AND S-2 OUTFALL CHANNEL**

DATE: **SEPT 5, 1973**

DEPARTMENT OF PUBLIC WORKS  
OFFICE OF PLANNING AND ZONING

CHIEF, BUREAU OF HIGHWAYS DATE \_\_\_\_\_  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION DATE \_\_\_\_\_

By: **F.T.&K.A.L.** AS SHOWN  
By: **J.D.** Date: **SEPT. 5, 1973**  
Checked By: **J.T.J.** Approved

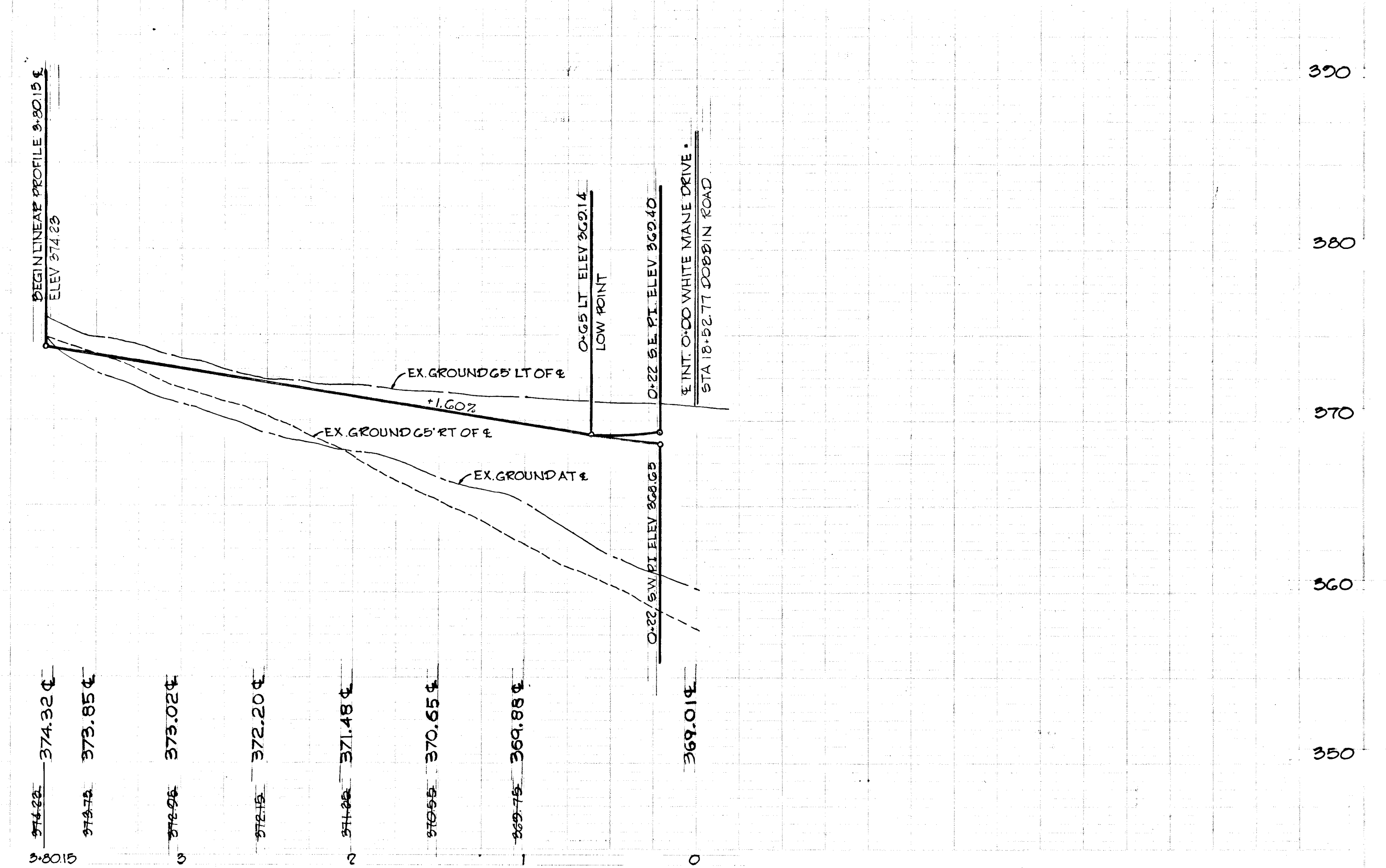
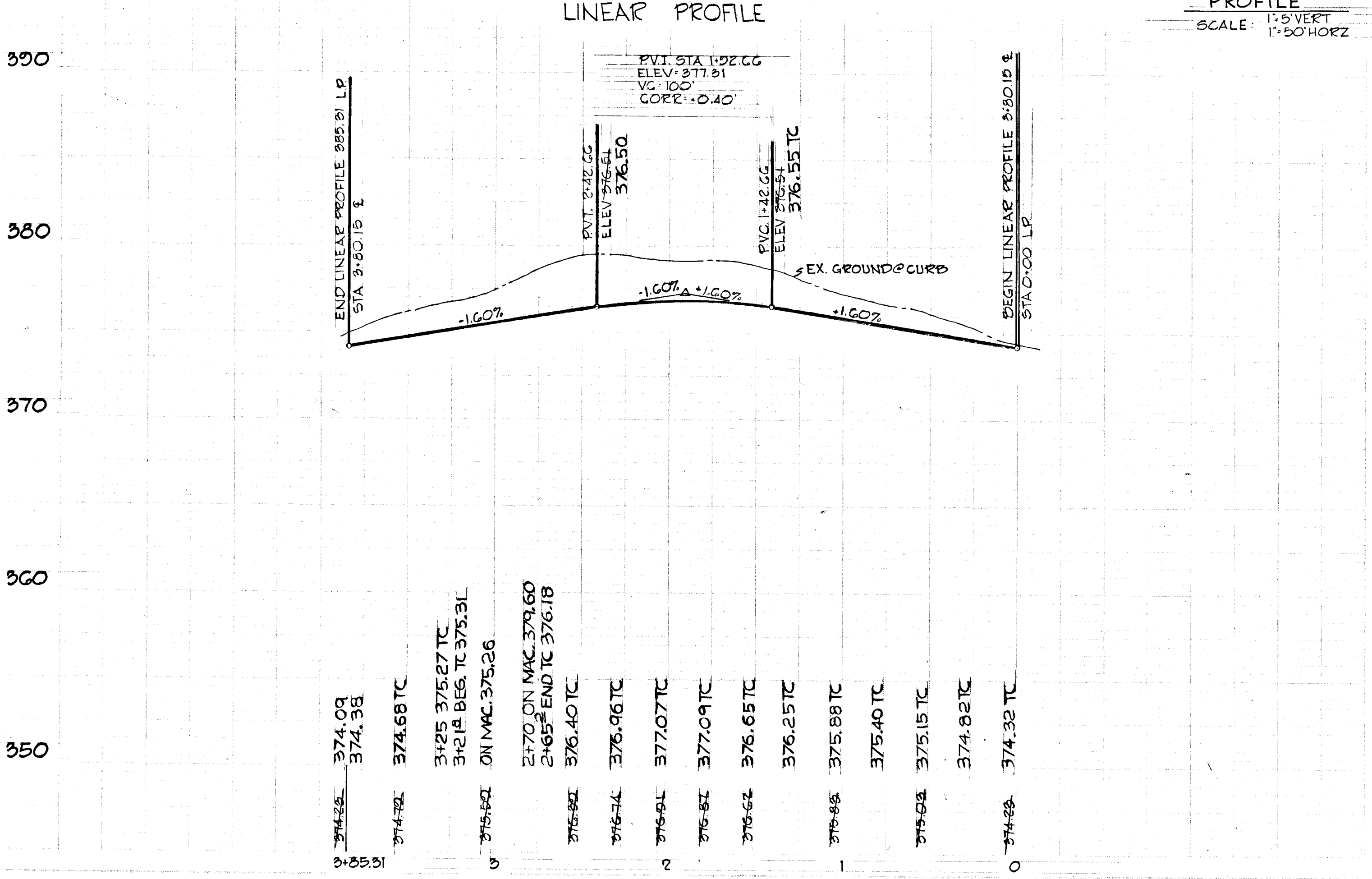
FOR STORM DRAIN PROFILES SEE SHEET 10

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV	REMARKS
MH-2	ST'D. MANHOLE	4+95 - 18' LT. WHITE MANE DRIVE	370.00	369.75	TOP = 375.60	HO.CO. DWG. D-103 PG. 158
I-3	DBL. 'S' COMB. DRIVE	3+60 - WHITE MANE DRIVE	368.18	368.18	373.91	HO.CO. DWG. D-99 PG. 154

- LEGEND**
- EX. GROUND GS' LT. BUILDING RESTRICTION LINE
  - EX. GROUND GS' RT. BUILDING RESTRICTION LINE
  - EX. GROUND @
  - FINISHED GROUND

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

**PROFILE**  
SCALE: 1"=5' VERT  
1"=50' HORIZ



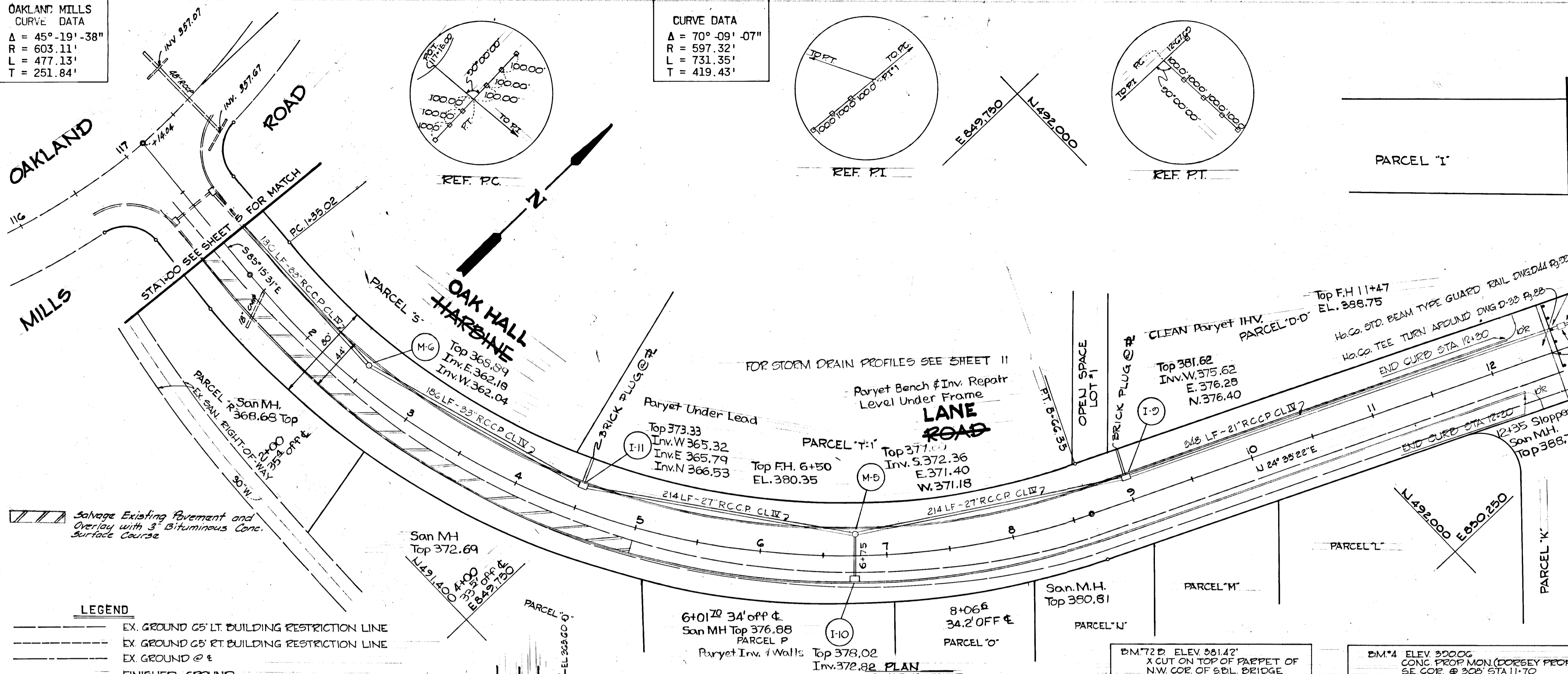






OAKLAND MILLS  
CURVE DATA  
Δ = 45°-19'-38"  
R = 603.11'  
L = 477.13'  
T = 251.84'

CURVE DATA  
Δ = 70°-09'-07"  
R = 597.32'  
L = 731.35'  
T = 419.43'



STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
MH-6	ST'D. MANHOLE	2+50 HARBINE RD.-16' LT.	362.32	362.12	TOP = 368.80	HO. CO. DWG. D-103 PG. 158
I-11	DBL. 'S' COMB.	4+50 HARBINE RD. LT.	366.79-18' 366.04-33'	365.54	373.33	HO. CO. DWG. D-99 PG. 154
MH-5	ST'D. MANHOLE	6+75 HARBINE RD.-16' LT.	372.38-15' 371.38-21'	371.18	TOP = 377.46	HO. CO. DWG. D-103 PG. 158
I-10	DBL. 'S' COMB.	6+75 HARBINE RD. RT.		372.72	377.92	HO. CO. DWG. D-99 PG. 154
I-9	DBL. 'S' COMB.	9+00 HARBINE RD. LT.	376.41-18' 376.16-21'	375.66	381.67	HO. CO. DWG. D-99 PG. 154
I-8	DBL. 'S'	12+65 HARBINE RD. LT.	382.42	382.52	TOP OF GRATE 387.50	HO. CO. DWG. D-102 PG. 157

\* ELEVATION SHOWN IS TO TOP OF GRATE, NO CURB PIECE TO BE INSTALLED

DEPARTMENT OF PUBLIC WORKS

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

7-2-73 REVISE CURB RETURN ELEVATIONS @ OAKLAND MILLS RD.

Pr. Date: Rev. No.: \_\_\_\_\_

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

HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND

PROJECT: SIELING INDUSTRIAL CENTER SECTION 1 AREA 1

PROJECT TITLE: HARBINE ROAD OAK HALL LANE

Des. By: F.T. Scale: AS SHOWN Date: 9/11

Chk. By: J.D. Date: SEPT. 5, 1973 C.C.F. No. \_\_\_\_\_

SEPT. 5, 1973  
Date

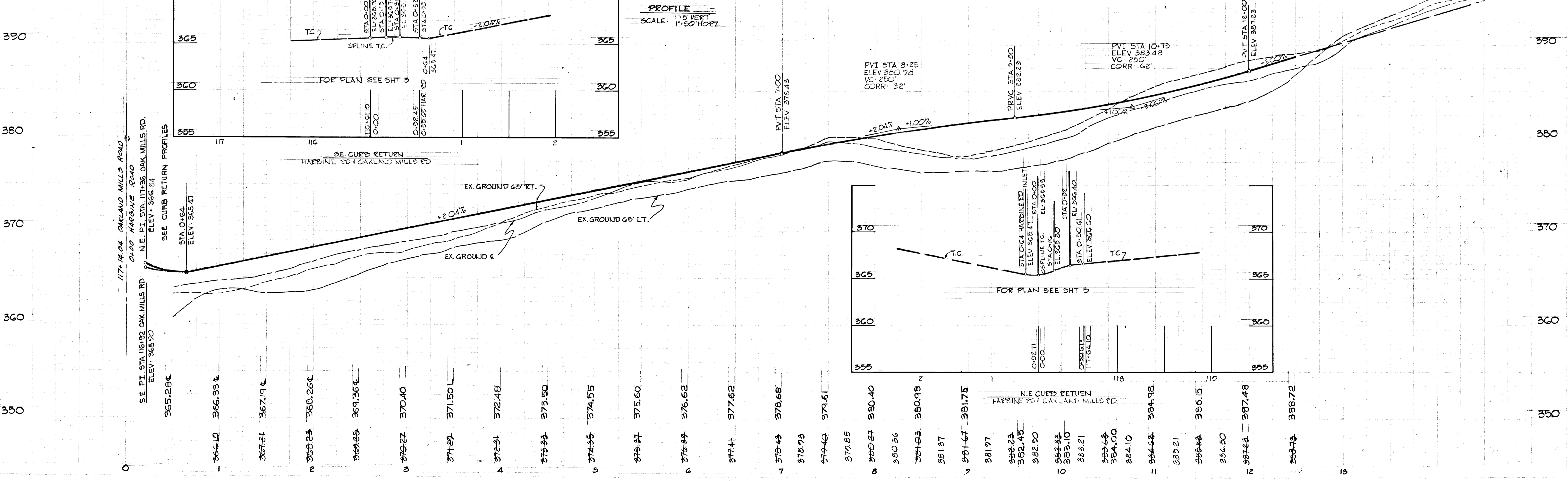
**LEGEND**

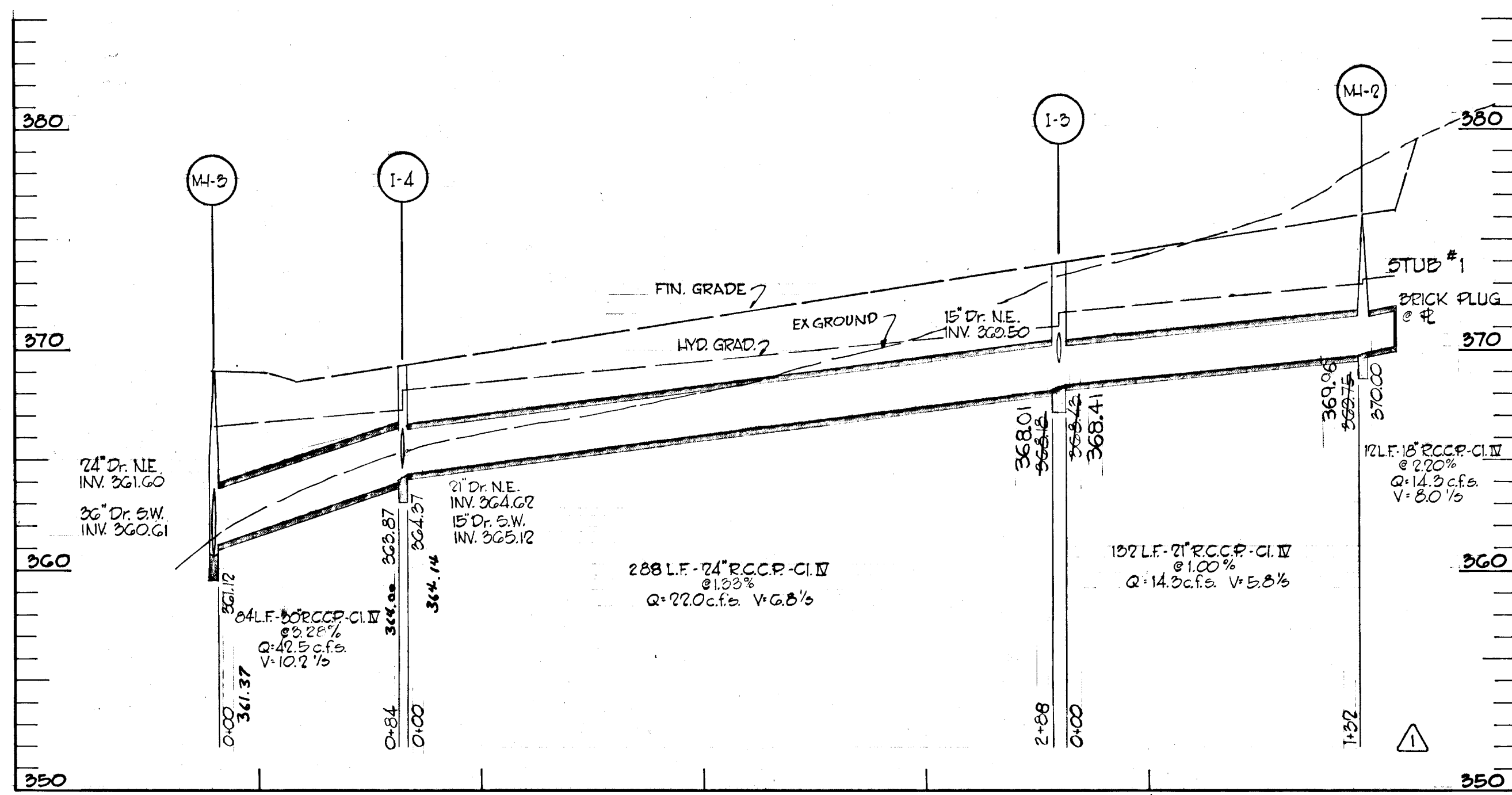
EX. GROUND 65' LT. BUILDING RESTRICTION LINE

EX. GROUND 65' RT. BUILDING RESTRICTION LINE

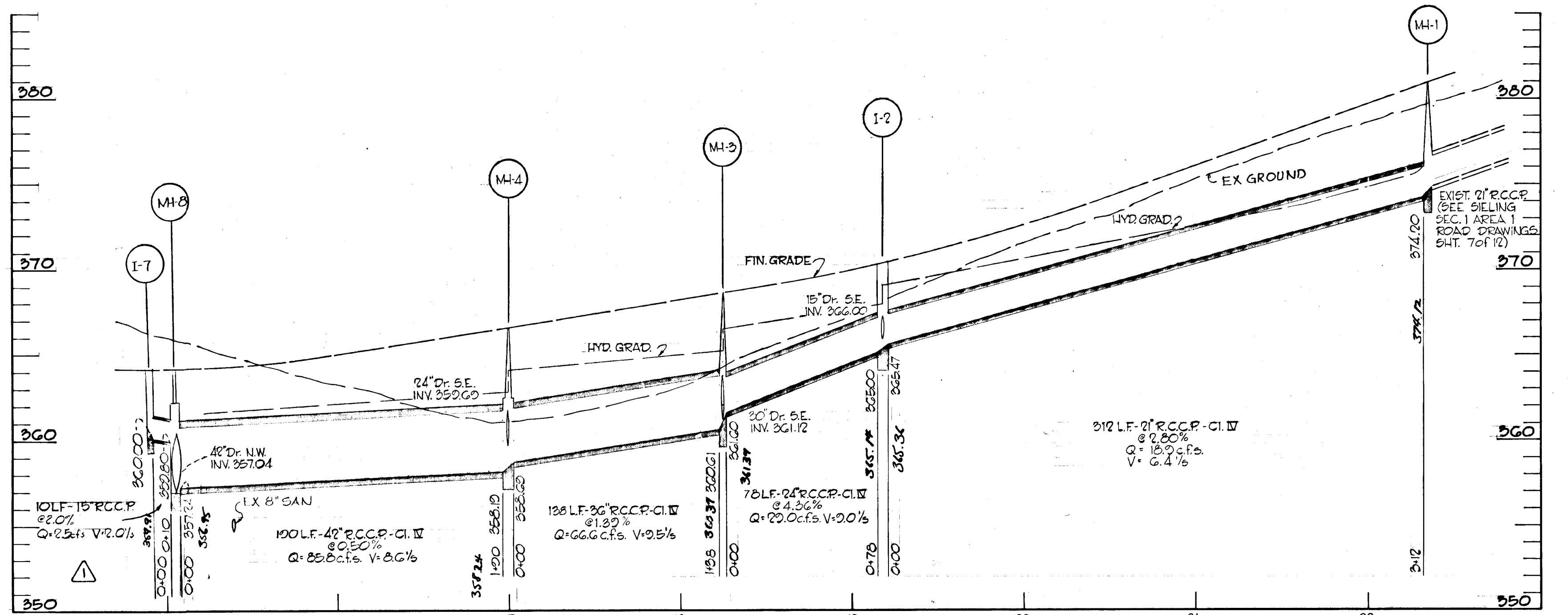
EX. GROUND @

FINISHED GROUND

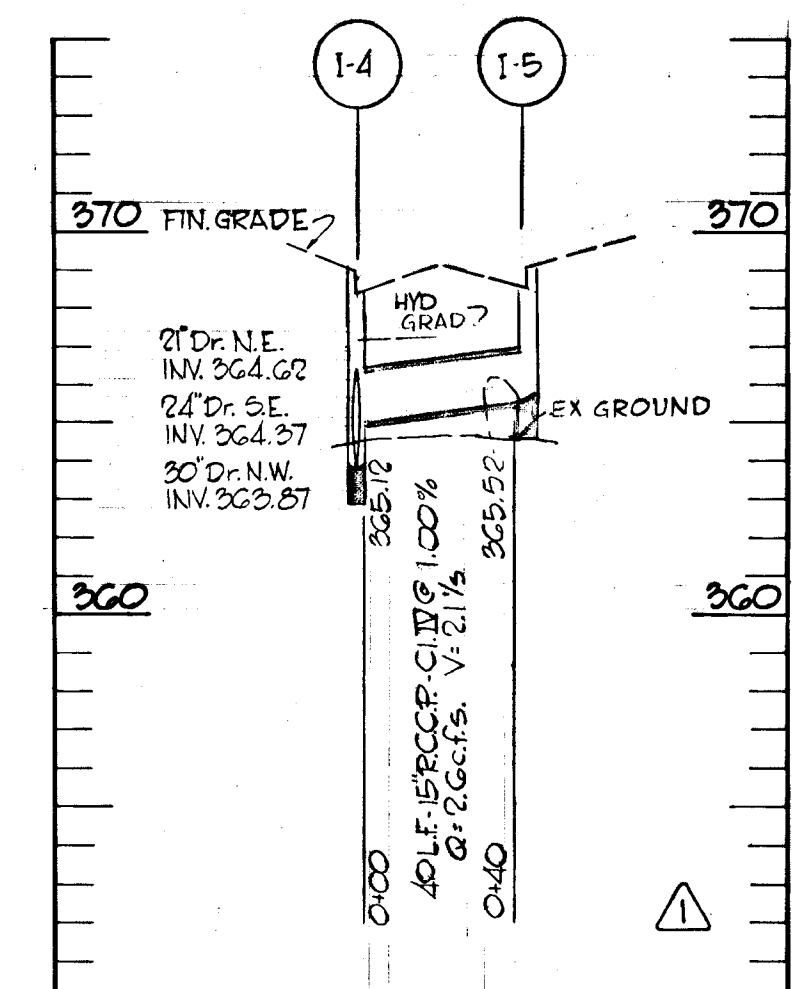




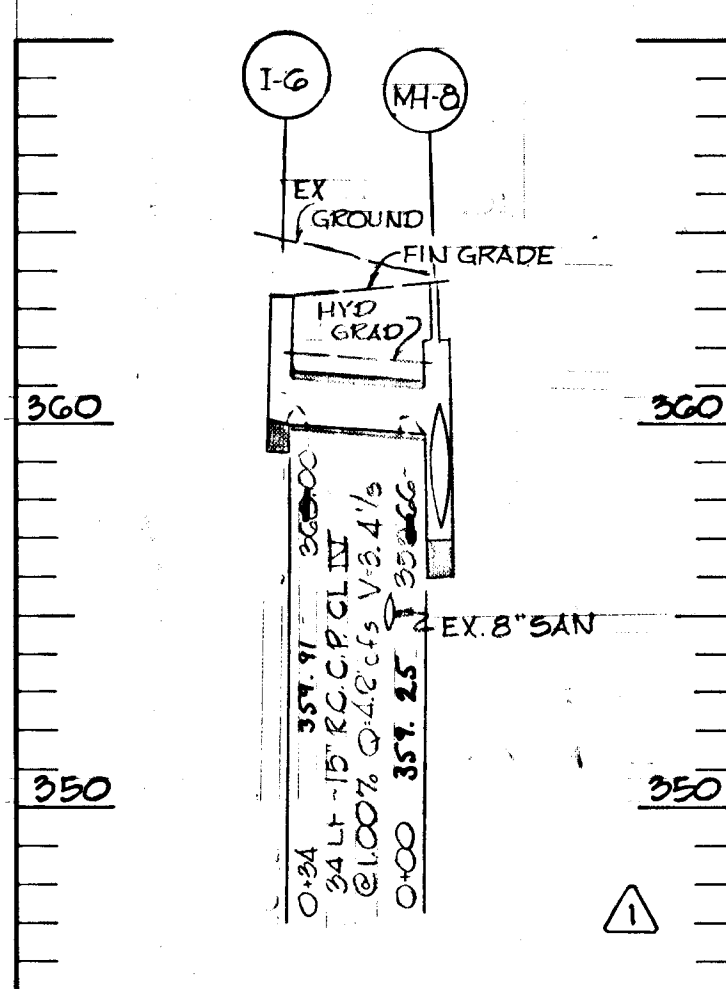
FOR PLAN SEE SHEETS 6 & 7



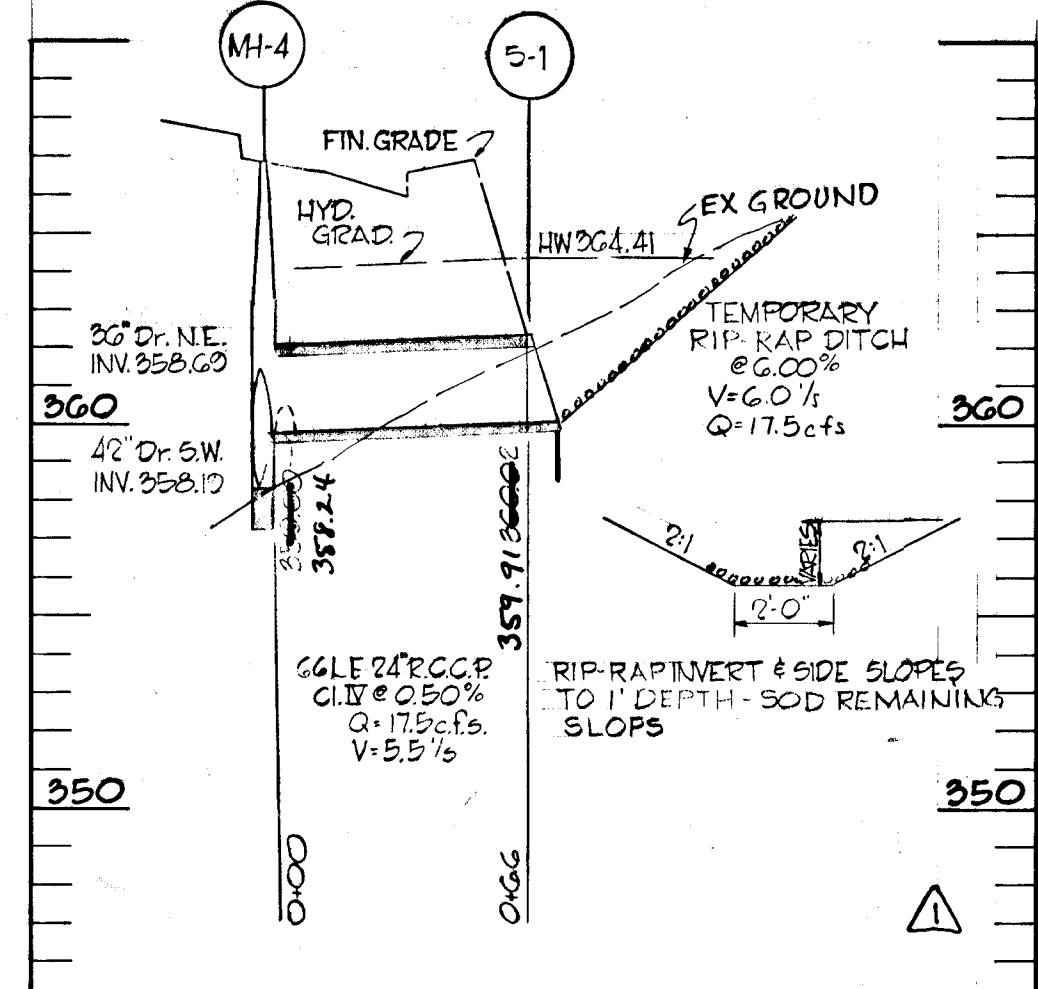
FOR PLAN SEE SHEET 6



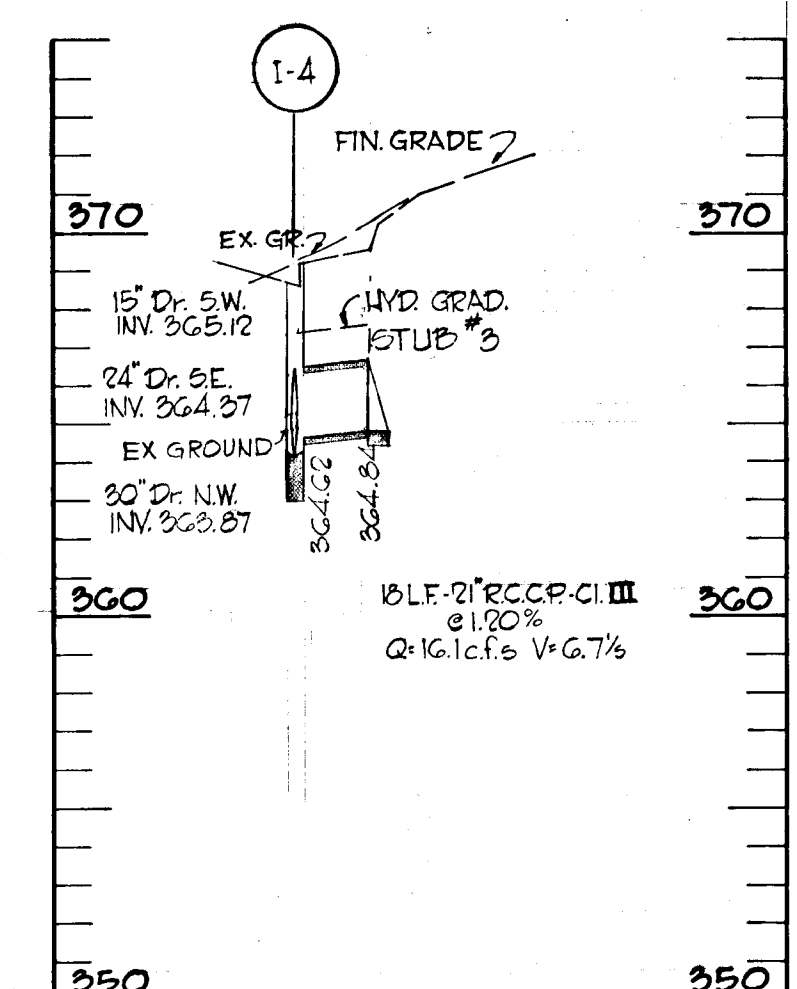
FOR PLAN SEE SHEET 6



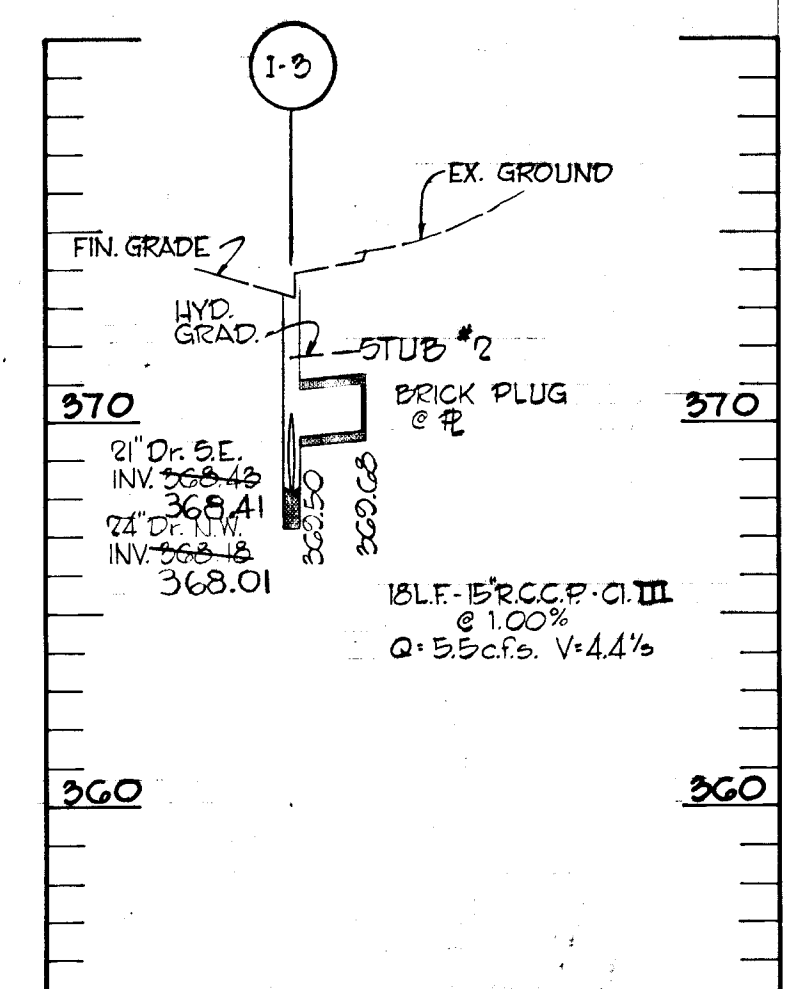
FOR PLAN SEE SHEET 6



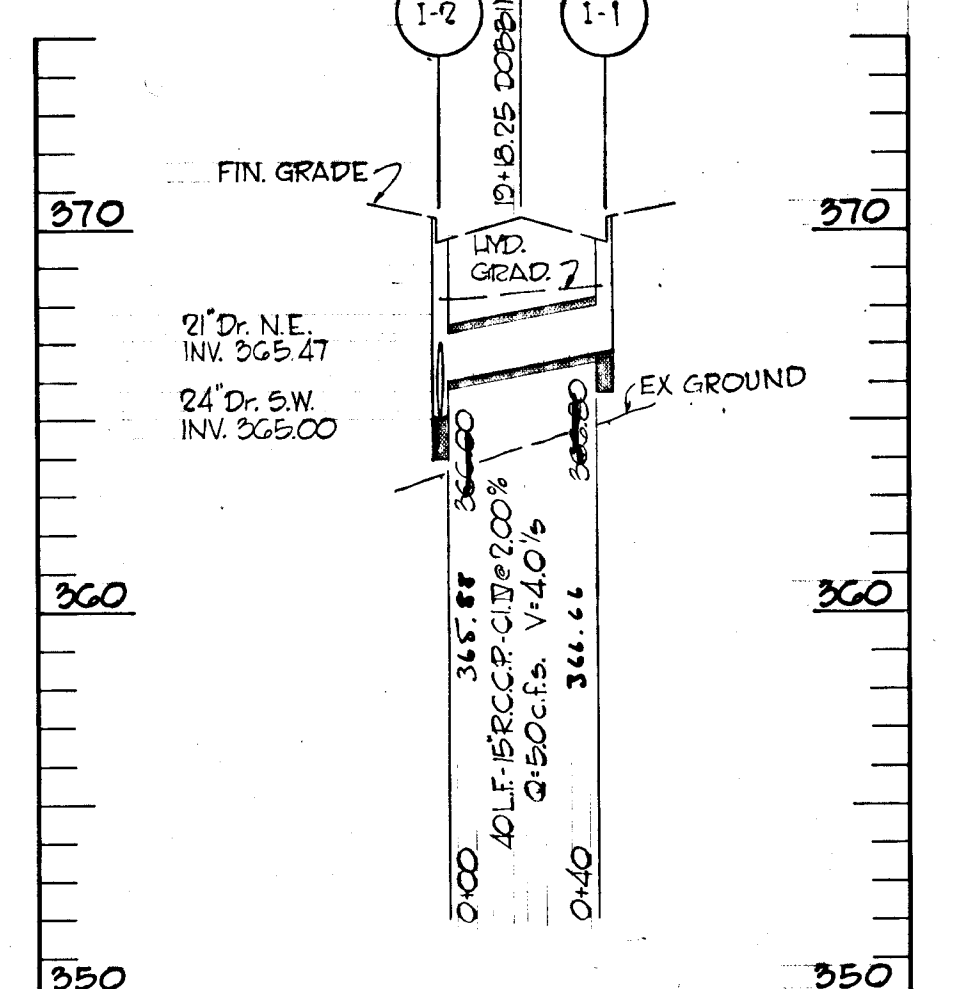
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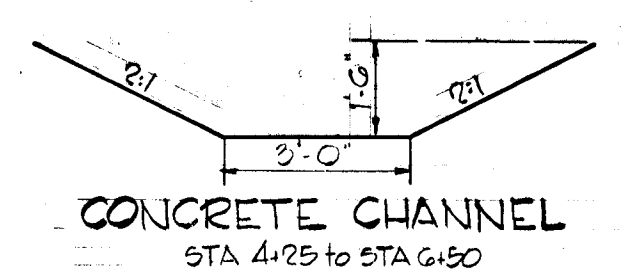
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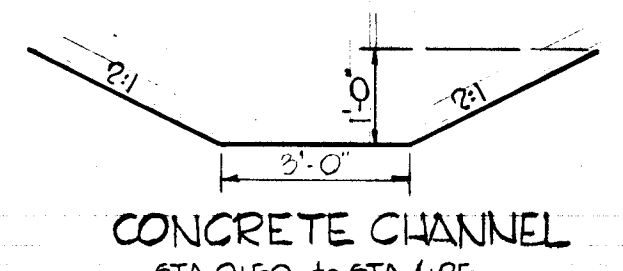
FOR PLAN SEE SHEET 7



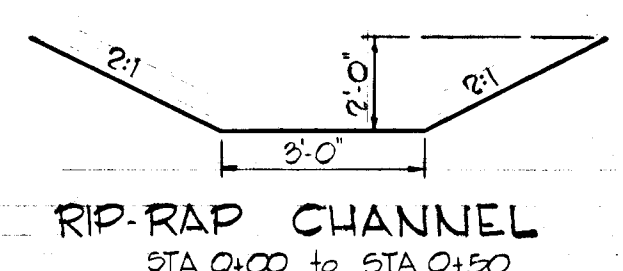
FOR PLAN SEE SHEET 6



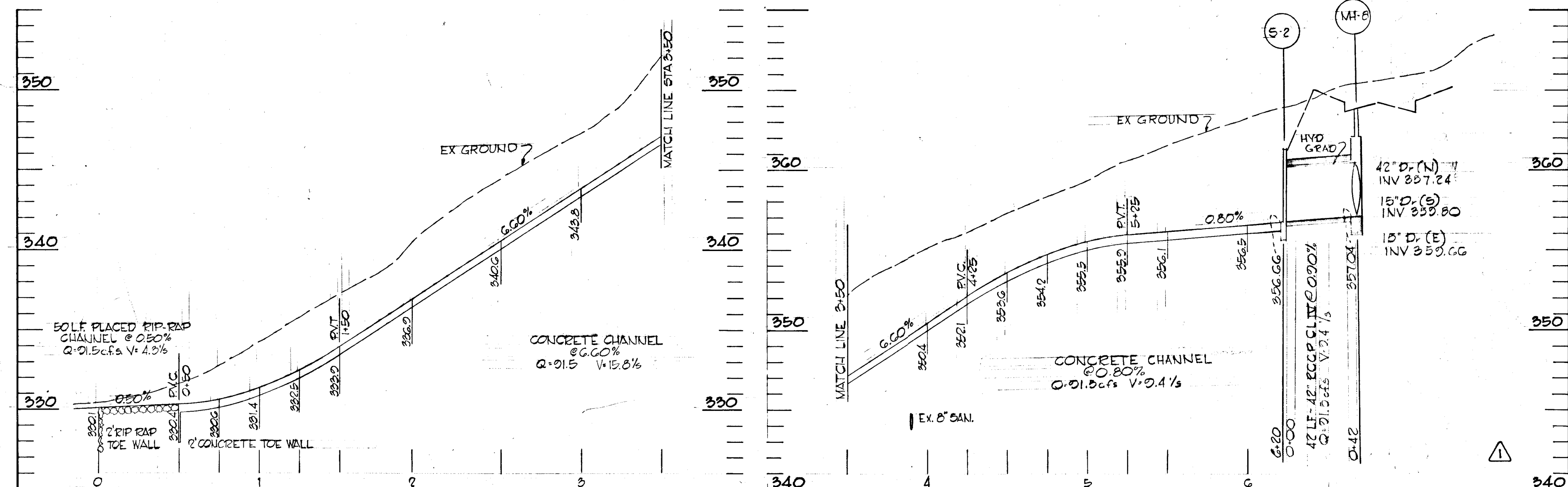
CONCRETE CHANNEL  
STA 4+25 TO STA 4+50



CONCRETE CHANNEL  
STA 4+50 TO STA 4+75



RIP-RAP CHANNEL  
STA 0+00 TO STA 0+50



FOR PLAN SEE SHEET 7

DEPARTMENT OF PUBLIC WORKS

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

7-2-73 **REVISED ELEVATIONS & LENGTHS**

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

HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND

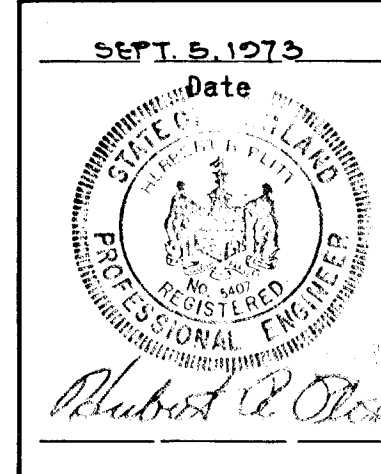
PROJECT AREA: **SIELING INDUSTRIAL CENTER SECTION 1 AREA 1**

PROJECT TITLE: **STORM DRAIN PROFILES**

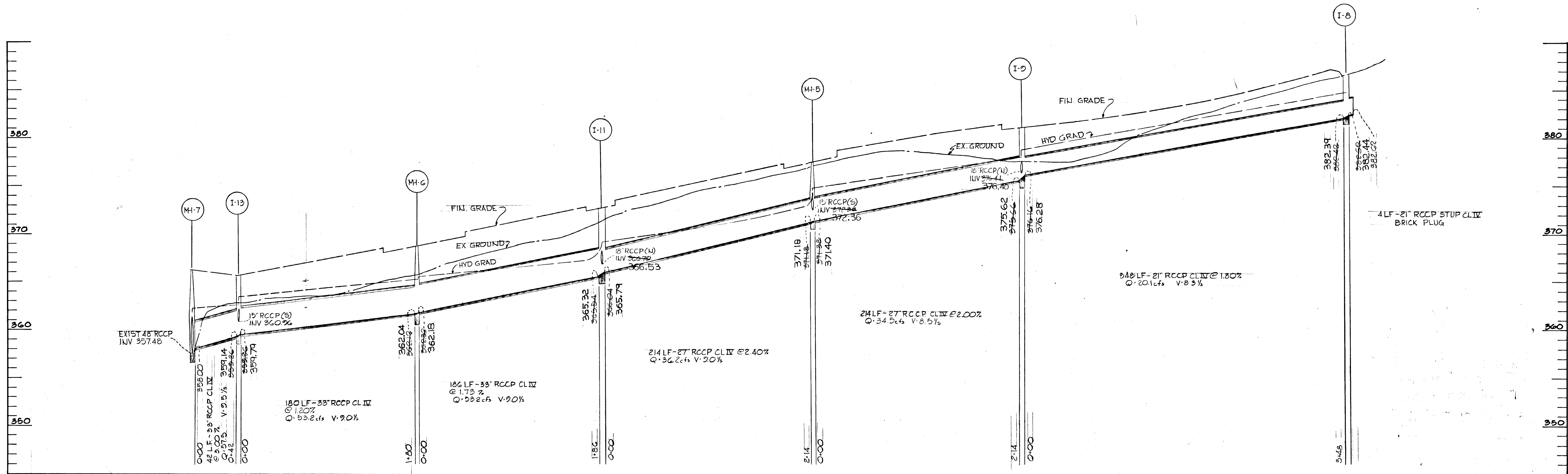
Drawn By: F.T. & K.L. Scale: **VERT. 1" = 5'** Date: **SEPT. 5, 1973** Draw No.: **10411**

Check By: J.D. Date: **SEPT. 5, 1973** C.C.F. No.: \_\_\_\_\_

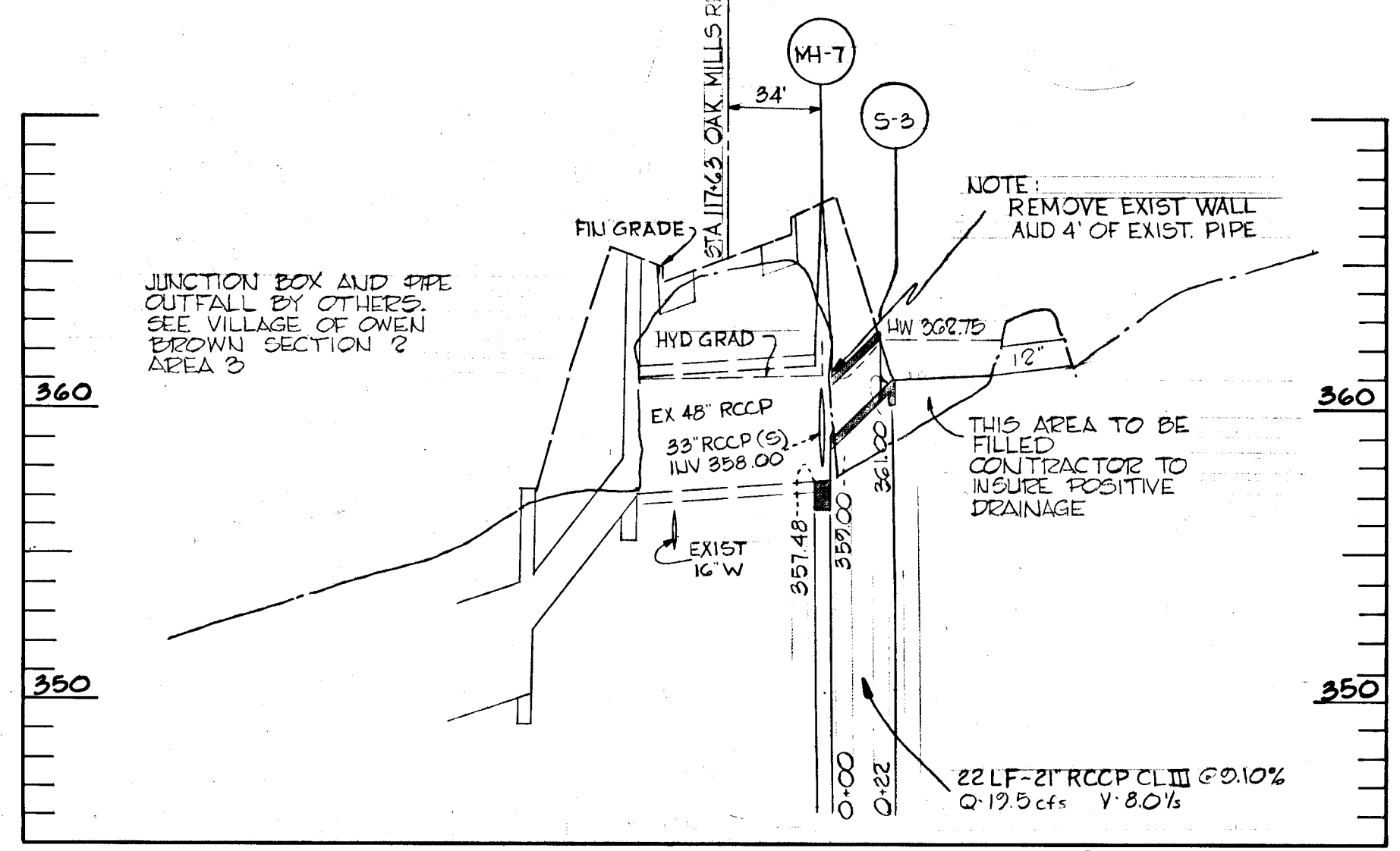
By: J.T.J.



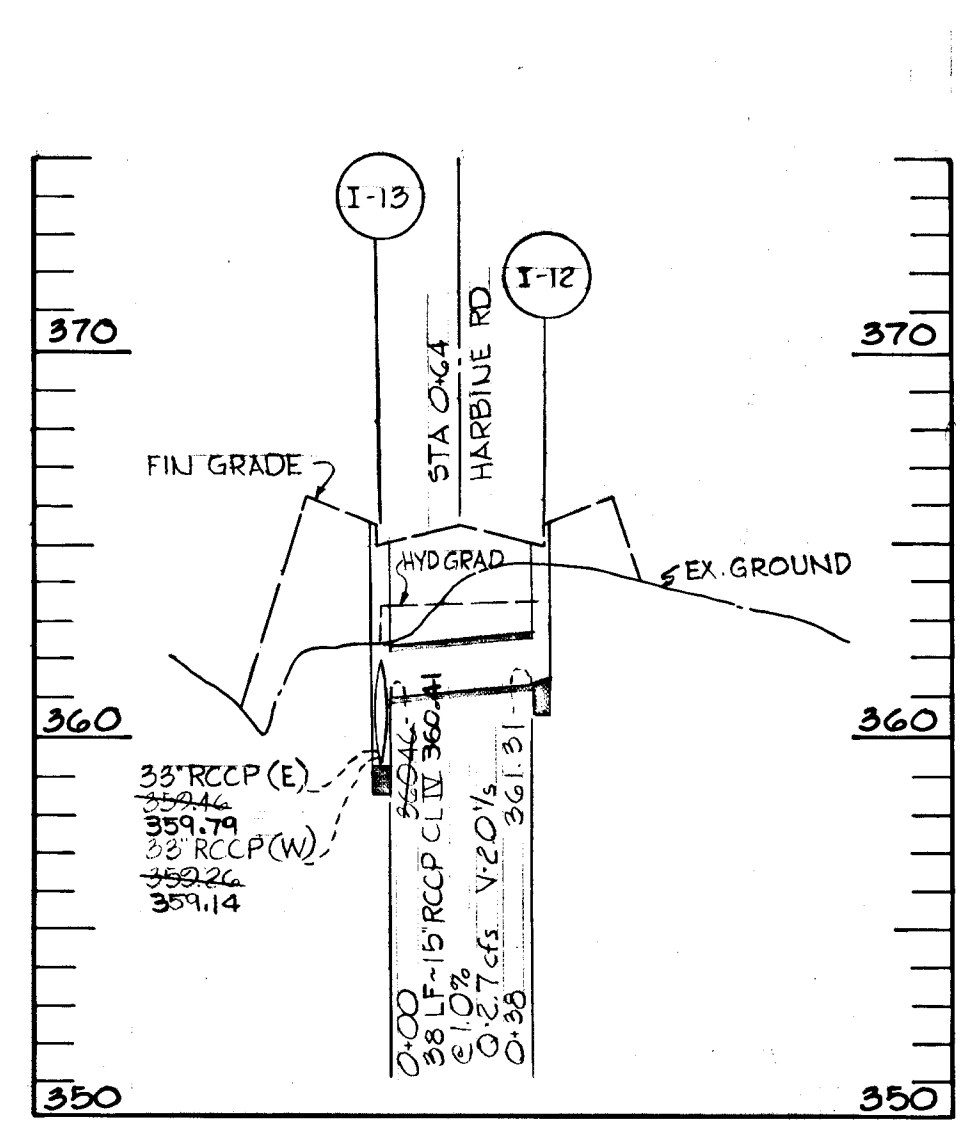




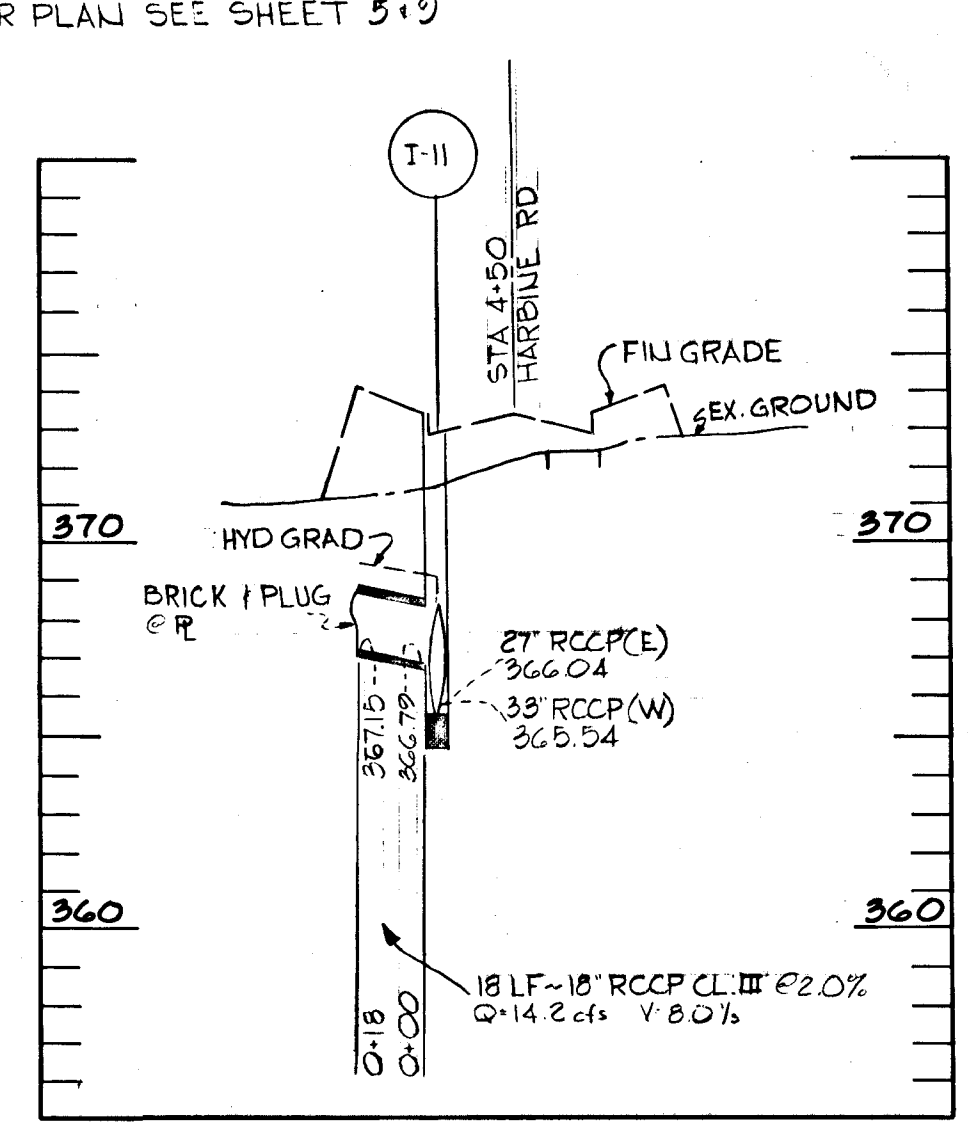
FOR PLAN SEE SHEET 5-9



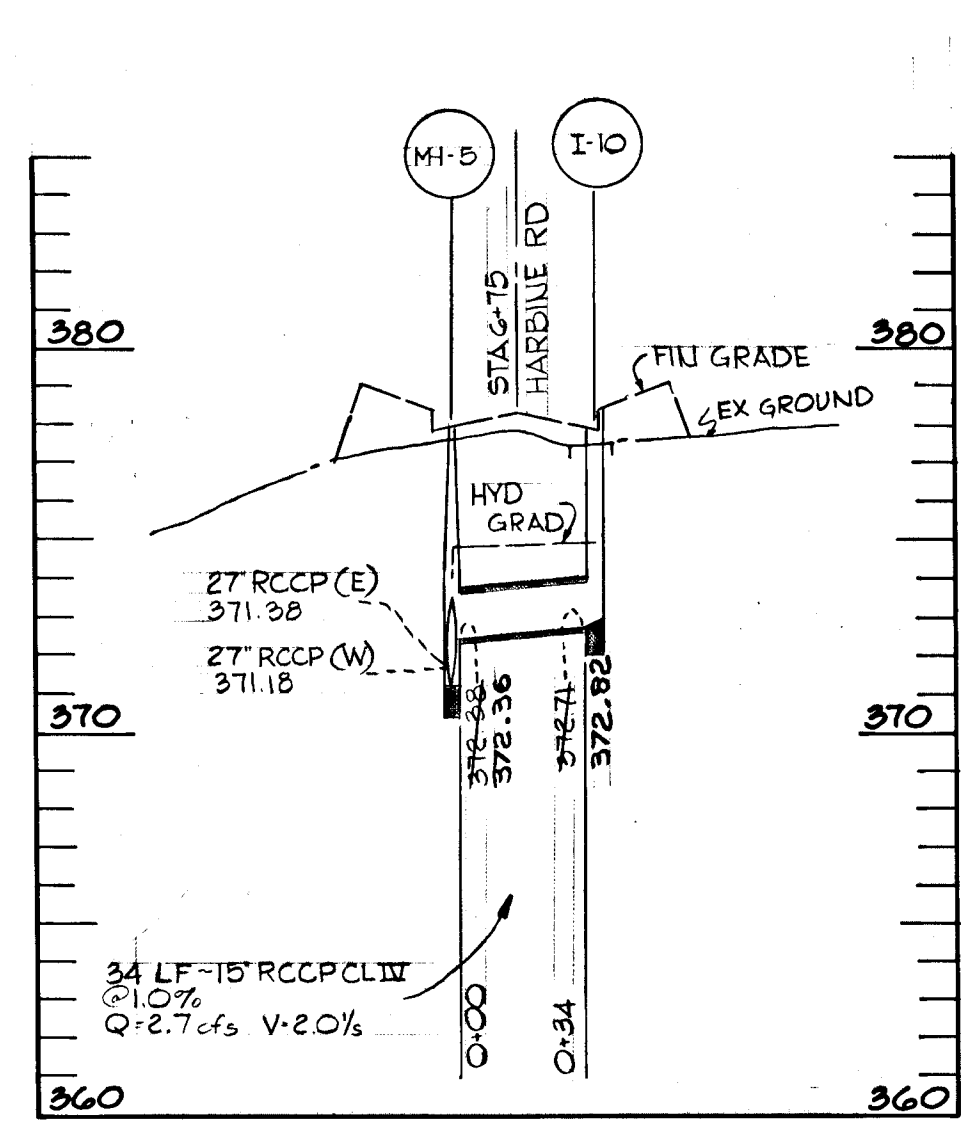
FOR PLAN SEE SHEET 6-17



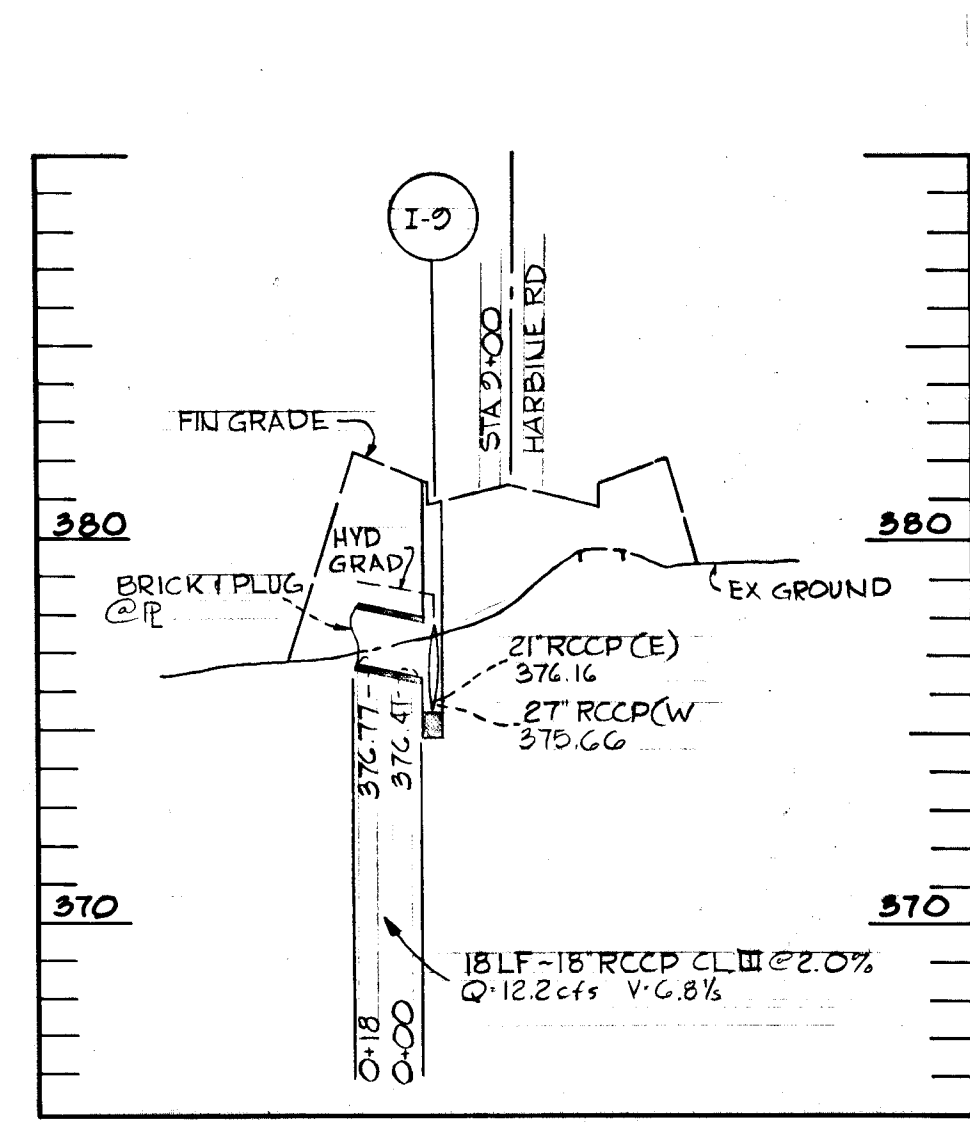
FOR PLAN SEE SHEET 5



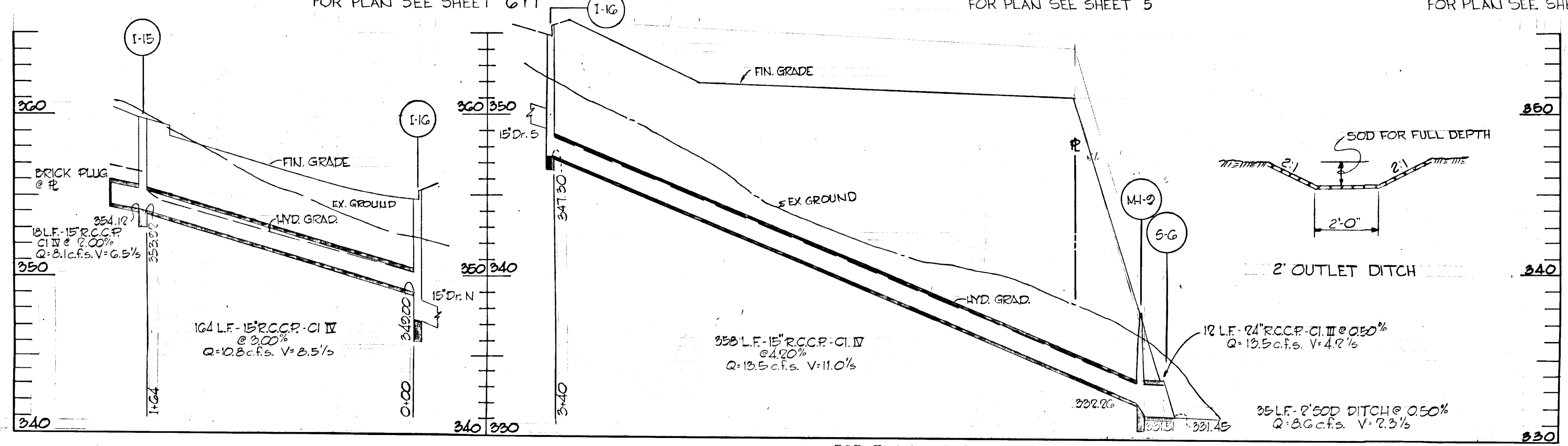
FOR PLAN SEE SHEET 9



FOR PLAN SEE SHEET 9



FOR PLAN SEE SHEET 9



FOR PLAN SEE SHEET 10

GREEN ASSOCIATES, INC.  
CONSULTING ENGINEERS  
TOWSON, MARYLAND

6TH ELECTION DISTRICT HOWARD COUNTY  
COLUMBIA MARYLAND

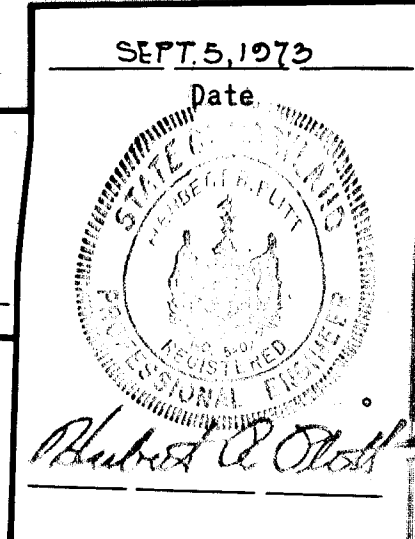
HOWARD RESEARCH AND DEVELOPMENT CORP  
COLUMBIA MARYLAND

PROJECT AREA  
**SIELING INDUSTRIAL CENTER**

SECTION 1 AREA 1

PROJECT TITLE  
**STORM DRAIN PROJECT**

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



By F.T. & K.L. Scale 1/8" = 1'-0"  
Date SEPT 5, 1973  
J.D.  
J.T.J.

SHEET INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	TYPICAL SECTIONS & DETAILS
4	DRAINAGE AREA MAP
5	SEDIMENT CONTROLS DETAILS (NOT IN CONTRACT)
6	OAKLAND MILLS ROAD STA. 115+50 TO STA. 125+50
7	OAKLAND MILLS ROAD STA. 125+50 TO 128+53.76 & CURB PROFILES
8	DOBBIN ROAD STA. 15+50 TO STA. 22+70
9	MENDENHALL COURT 1+00 TO 4+68.52
10	WHITE MANE DRIVE 1+00 TO 4+31.48
11	HARBINE ROAD
12	STORM DRAIN PROFILES
13	STORM DRAIN PROFILES
14	SEDIMENT CONTROLS DETAILS

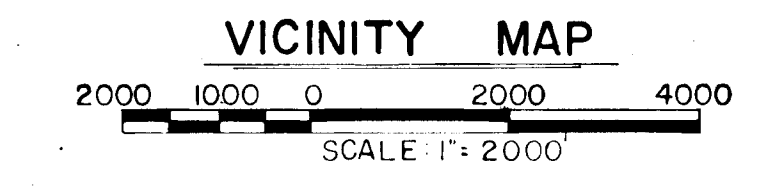
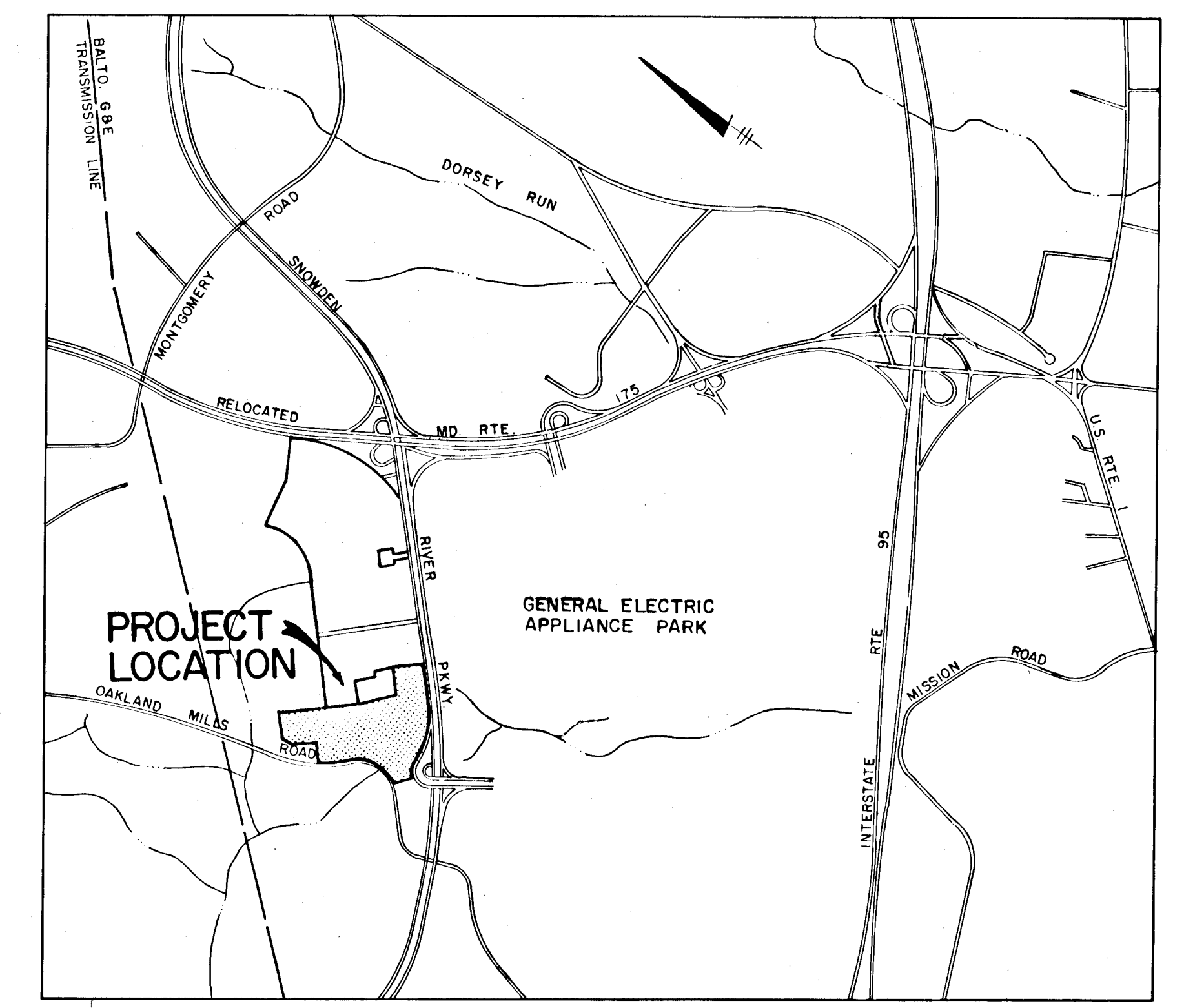
# COLUMBIA

HOWARD COUNTY, MARYLAND  
6TH ELECTION DISTRICT

## ROAD CONSTRUCTION PLANS

SIELING INDUSTRIAL CENTER  
SECTION I AREA I  
E.G.U.  
SECTION I AREA 4  
OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND

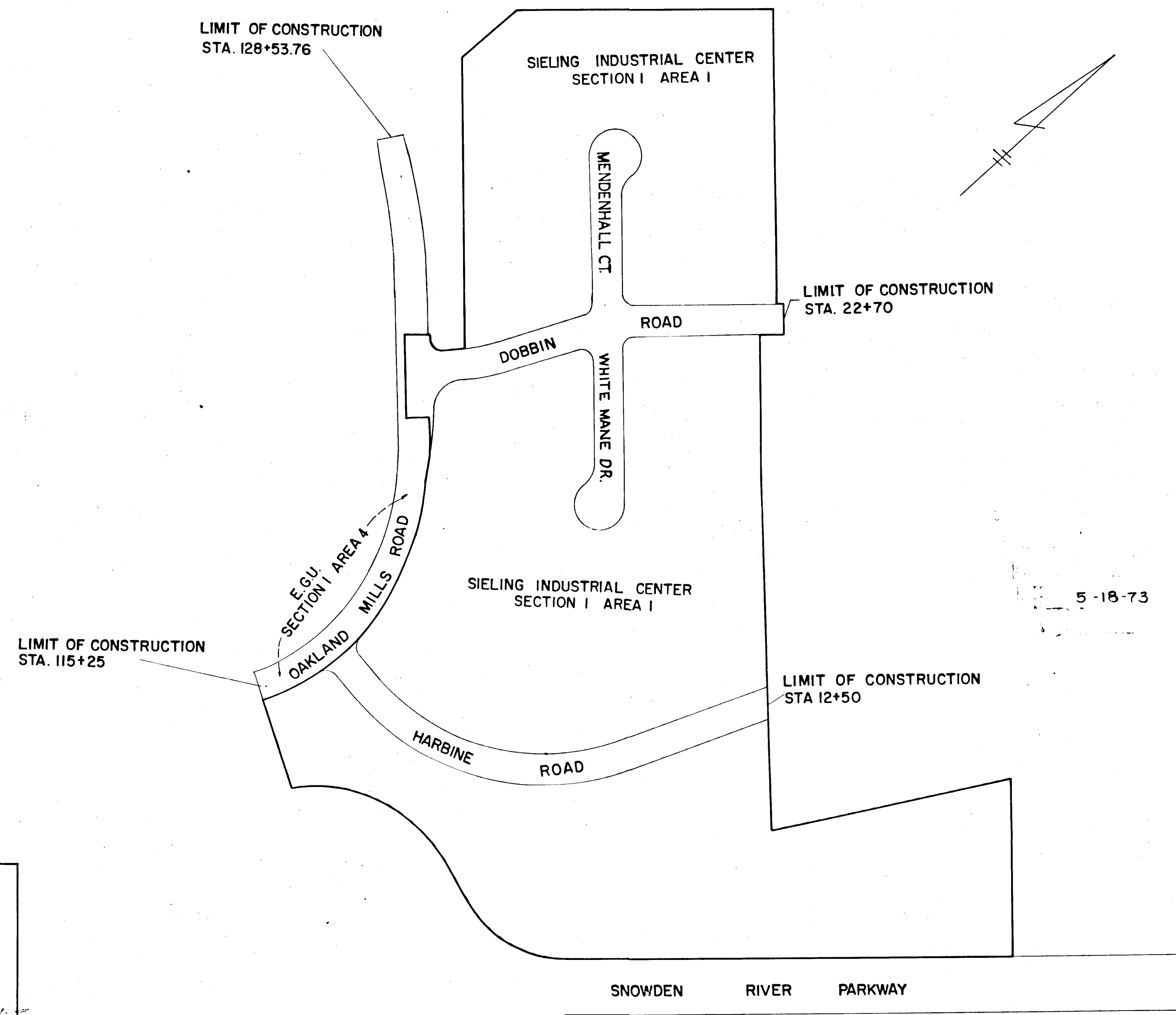


### GENERAL NOTES

- 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 CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 35.0 RADII UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-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 OFFICAL STANDARDS.
 

OAKLAND MILLS ROAD	30 MPH
DOBBIN ROAD	30 M.P.H.
MENDENHALL CT. & WHITE MANE DRIVE	25 MPH.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
- 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 STANDAPD 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.



5-18-73

DEPARTMENT OF PUBLIC WORKS

*W.C. [Signature]* 5-18-73  
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING

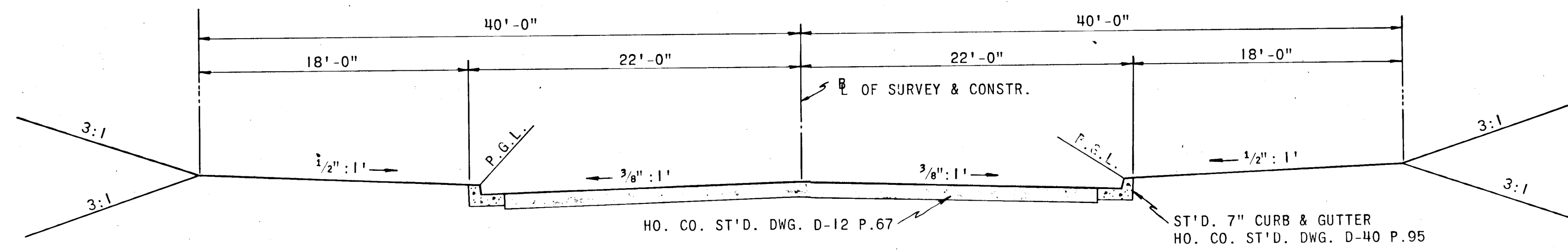
*[Signature]* 5-18-73  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

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

Date \_\_\_\_\_

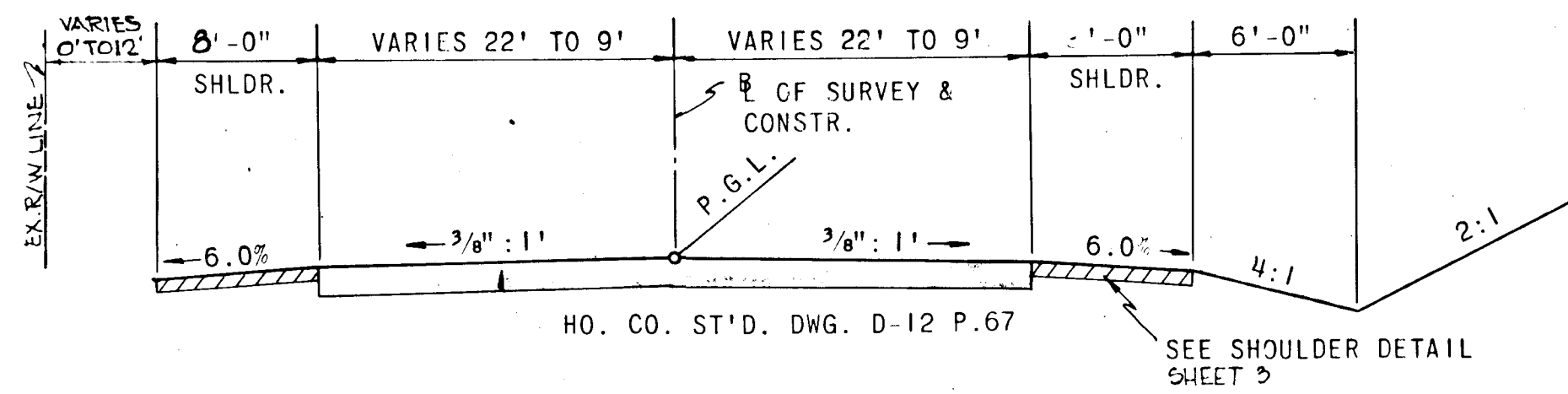
Reg. No. 5407





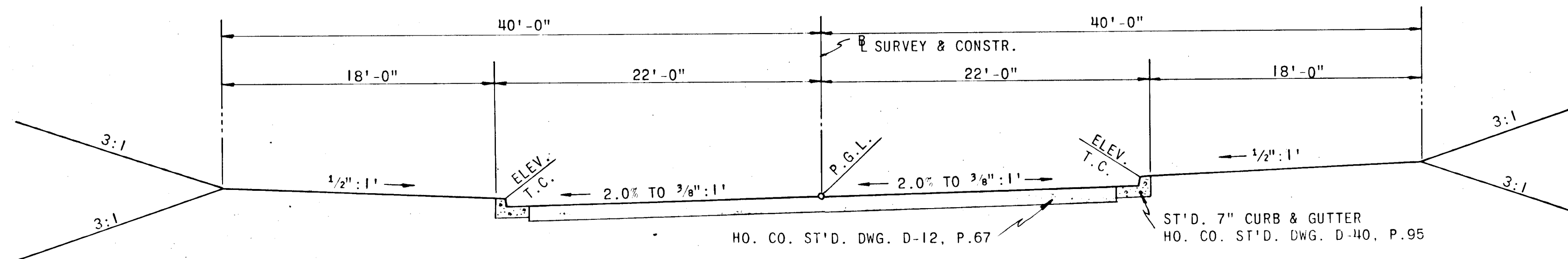
**WHITE MANE DRIVE**  
DOBBIN RD., MENDENHALL CT.

SCALE: 1" = 6'-0"



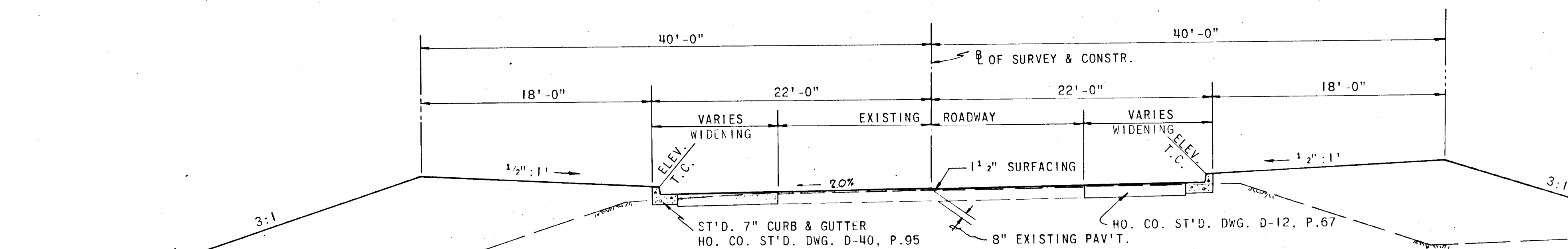
**OAKLAND MILLS ROAD**

STA. 125+44.28 TO STA. 129+  
SCALE: 1" = 6'-0"



**OAKLAND MILLS ROAD**

STA. 119+50 TO STA. 125+12.21  
SCALE: 1" = 6'-0"



**OAKLAND MILLS ROAD**

STA. 116+50 TO STA. 119+50  
SCALE: 1" = 6'-0"

NOTE: SEE PROFILE SHEETS FOR ELEVATIONS  
T.C. IN SUPERELEVATED SECTIONS.

DEPARTMENT OF PUBLIC WORKS	
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

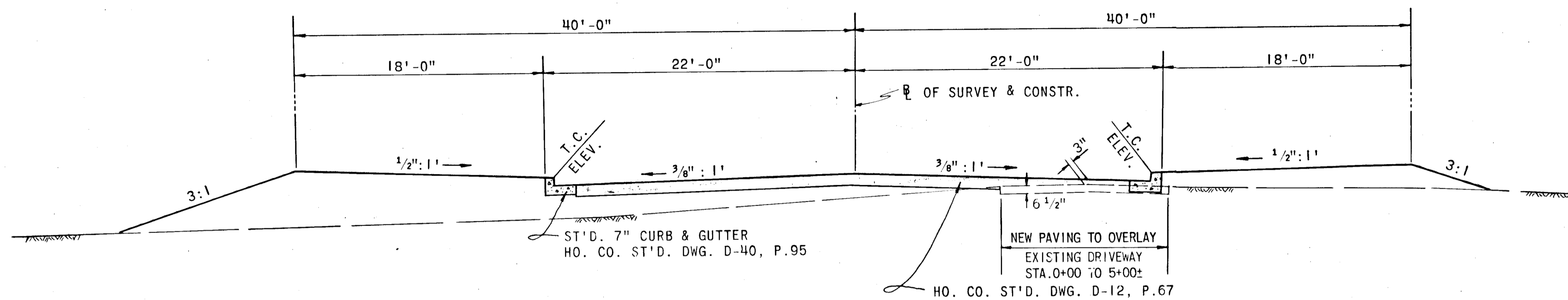
Rev Date	Rev No	Revision Description

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

PROJECT AREA	SIELING INDUSTRIAL CENTER SECTION 1 AREA 1		
PROJECT TITLE	TYPICAL SECTION		
Des By	F.T. & K.L.	Scale	AS SHOWN
Dwg No.	2	Des By	J.D.
Date	MARCH 2, 1973	CCF No.	
Chk By	J.T.J.	Approved	

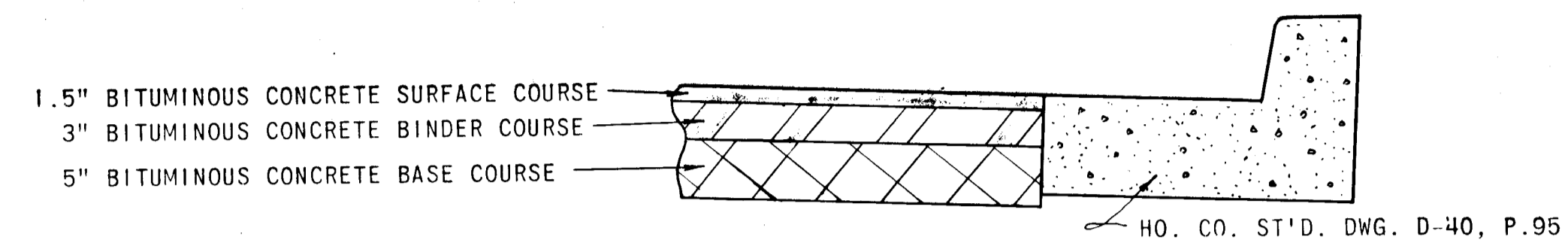
5-18-73

F-73-12C



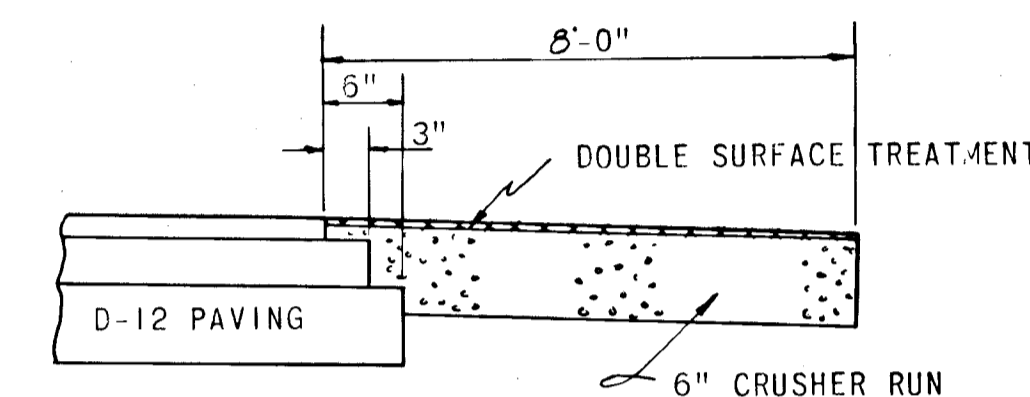
**HARBINE ROAD**

STA. 0+00 TO STA. 12+  
SCALE: 1" = 6'-0"

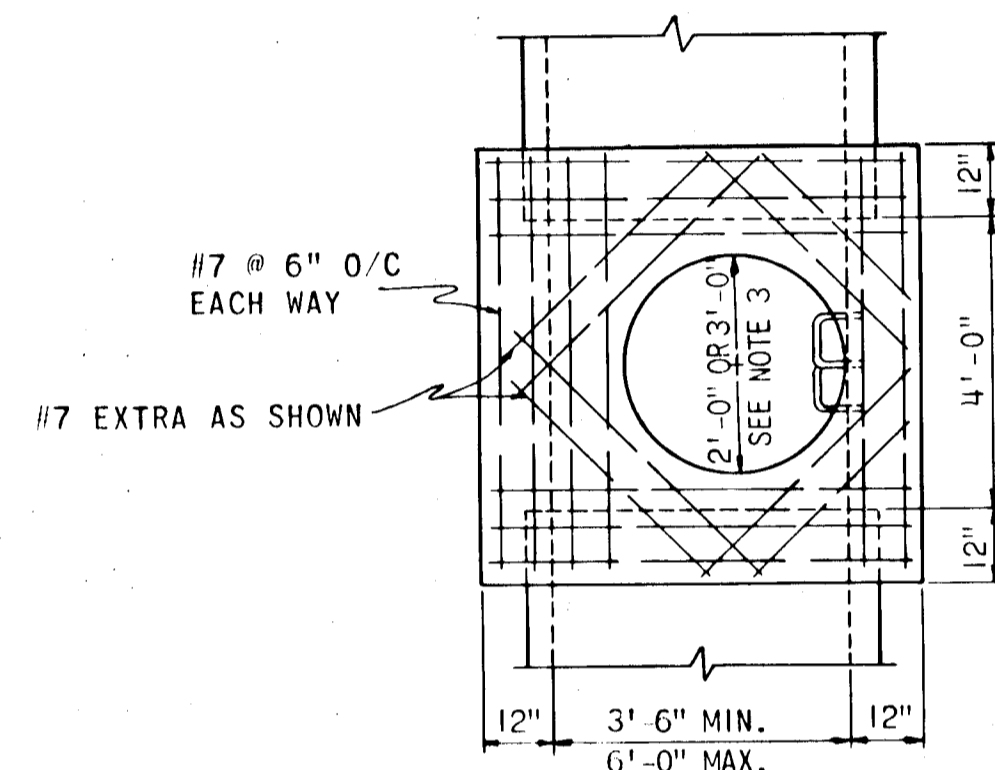


**PAVING DETAIL**

HO. CO. ST'D. DWG. D-12, P.67



**SHOULDER DETAIL**



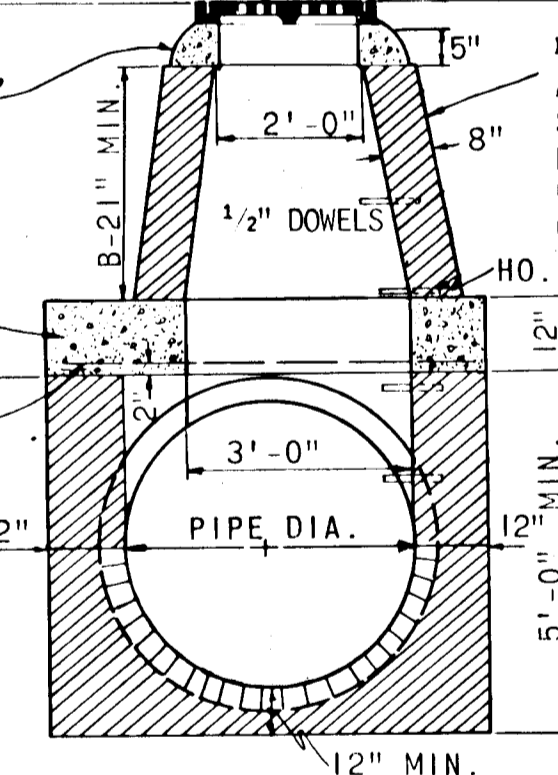
**TOP SLAB**

STANDARD STORM DRAIN HEAVY TRAFFIC MANHOLE FRAME & COVER GRADE

INSTALL FRAME & 4 DOWELS, 90° APART, THEN MORTAR.

CLASS "A" CONCRETE SLAB

#7 #6" O/C EACH WAY

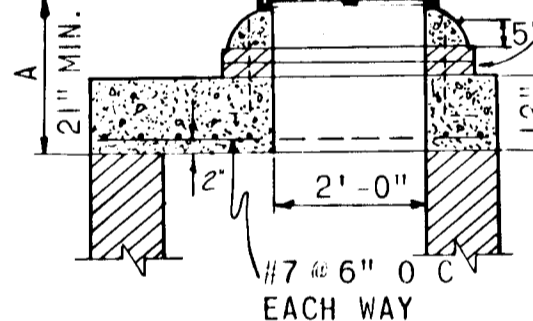


**SECTION**

**NOTE:**

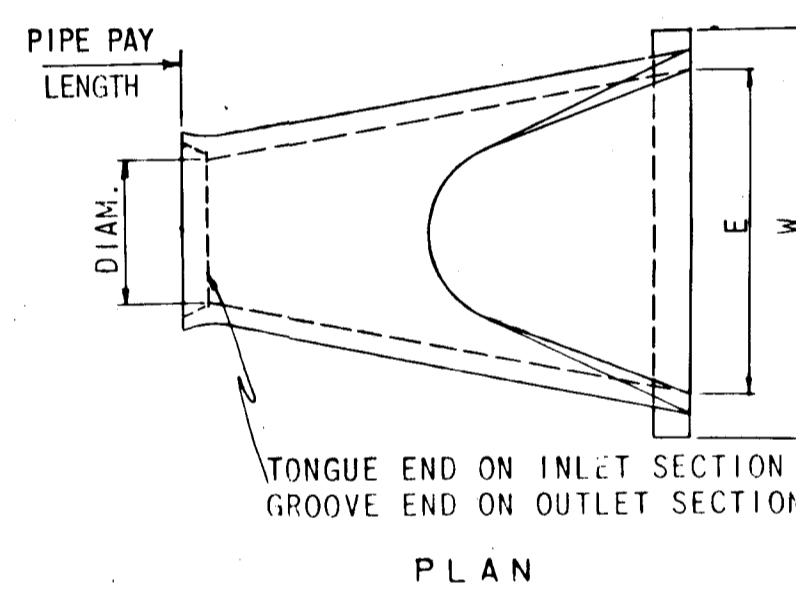
1. WALLS, BOTTOM SLAB AND INVERT SHALL BE BRICK OR PLAIN CLASS "A" CONCRETE POURED IN PLACE.
2. WHERE "A" IS LESS THAN 3'-0" USE ALTERNATE MANHOLE STACK "B"

4" BRICK MASONRY ADDITIONAL BRICK SHALL BE USED TO BRING MH COVER TO EXISTING GRADE IF REQUIRED



ALTERNATE MANHOLE STACK (SEE NOTE 2)

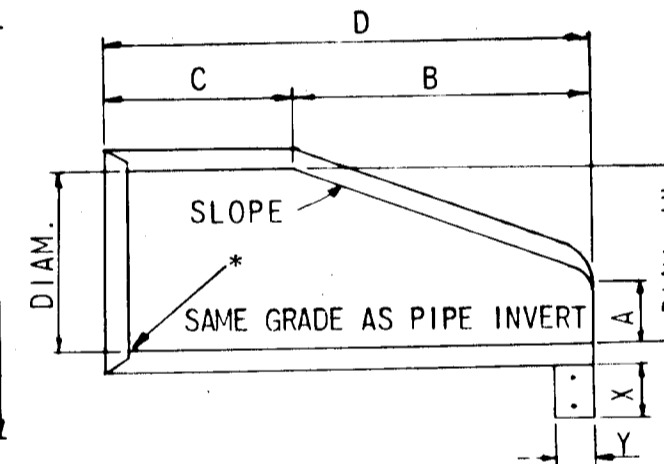
TABLE OF DIMENSIONS									
CONCRETE END SECTION					CONC. FOOTER				
DIAM.	SLOPE	A	B	C	D	E	W	Y	
21"	3:1	9"	3'-0"	3'-1 1/2"	6'-1 1/2"	3'-6"	4'-0"	12"	9"
24"	3:1	11"	3'-7"	2'-8"	6'-3"	4'-0"	5'-0"	15"	9"



**PLAN**

**NOTES:**

1. END SECTIONS MUST BE REINFORCED TO CONFORM WITH CLASS IV PIPE.
2. CONCRETE FOOTER SHALL BE USED.



**LONGITUDINAL SECTION**

- \*1 INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATION TO BE NOTED ON CONSTRUCTION PLANS.
- \*2 LOCATION OF STATION OFFSET

**NOTES:**

1. BASE WILL BE PRIMED IN ACCORDANCE WITH C-30-3 AS PROVIDED IN THE HOWARD COUNTY 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.

DEPARTMENT OF PUBLIC WORKS  
*W.D. Liberty* 5-18-73  
 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  
 OWNER AND DEVELOPER  
**HOWARD RESEARCH AND DEVELOPMENT CORP.**  
 COLUMBIA, MARYLAND

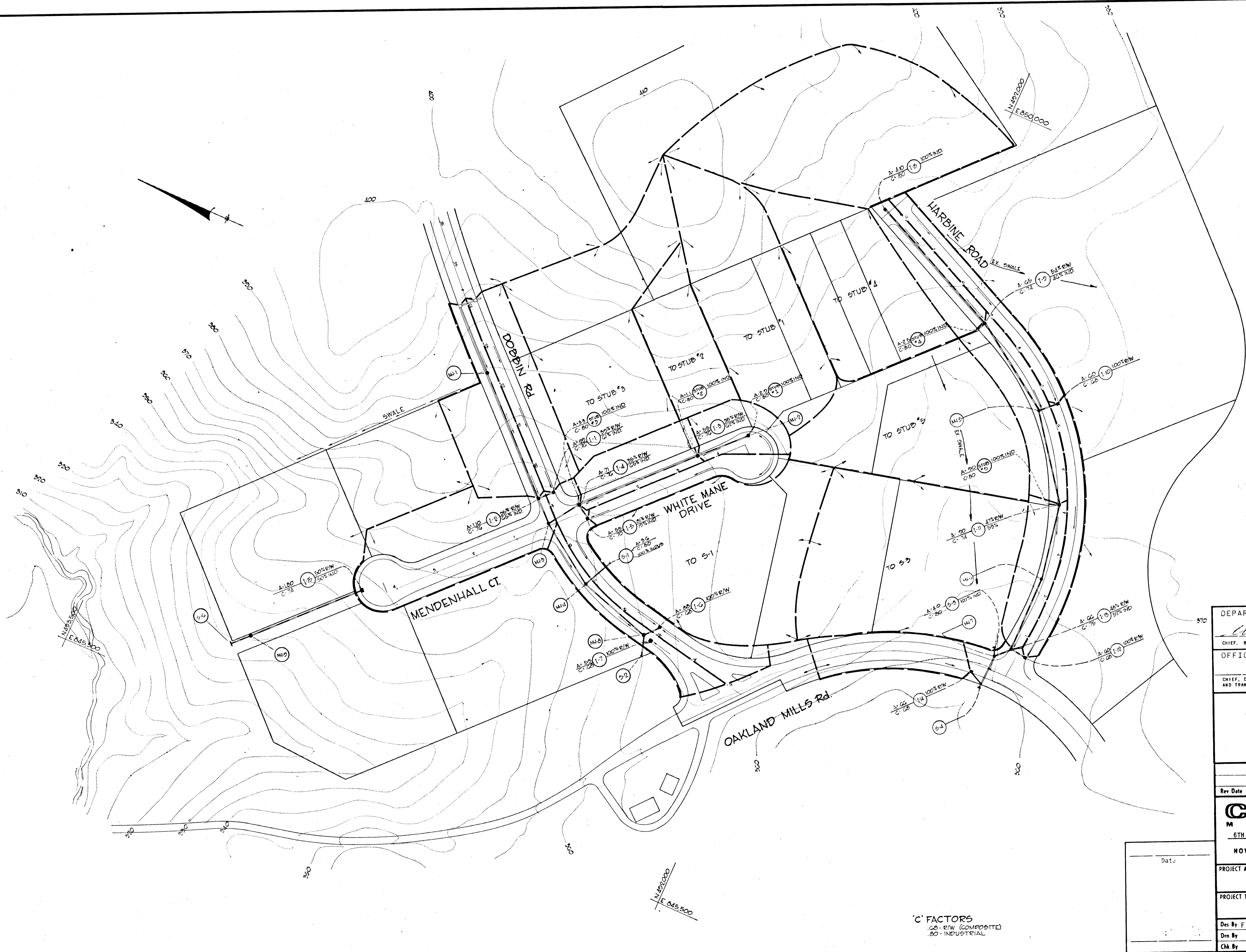
PROJECT AREA  
 SIELING INDUSTRIAL CENTER  
 SECTION 1 AREA 1

PROJECT TITLE  
 TYPICAL SECTION & DETAILS

Des By F.T. & K.L. Scale AS SHOWN Dwg. No. 3  
 Dwn By J.D. Date MARCH 2, 1973 C.C.F. No.  
 Chk By J.T.J. Approved

F-13-72C





5-18-73

DEPARTMENT OF PUBLIC WORKS		
<i>W.C. Feltner</i>		5-18-73
CHIEF, BUREAU OF HIGHWAYS	DATE	
OFFICE OF PLANNING AND ZONING		
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING		DATE
<b>GREEN ASSOCIATES, INC.</b> CONSULTING ENGINEERS TOWSON, MARYLAND		
Rev Date	Rev No	Revision Description
<b>COLUMBIA</b> MARYLAND 6TH ELECTION DISTRICT HOWARD COUNTY <small>OWNER AND DEVELOPER</small> <b>HOWARD RESEARCH AND DEVELOPMENT CORP.</b> COLUMBIA, MARYLAND		
PROJECT AREA SIELING INDUSTRIAL CENTER SECTION 1 AREA 1		
PROJECT TITLE DRAINAGE AREA MAP		
Des. By F.T. & K.L.	Scale 1" = 100'	Dwg. No. 4
Drn. By J.D.	Date MARCH 2, 1973	C.C.F. No.
Chk. By J.T.J.	Approved	

'C' FACTORS  
 60 - R/W (COMPOSITE)  
 80 - INDUSTRIAL

Date

#62

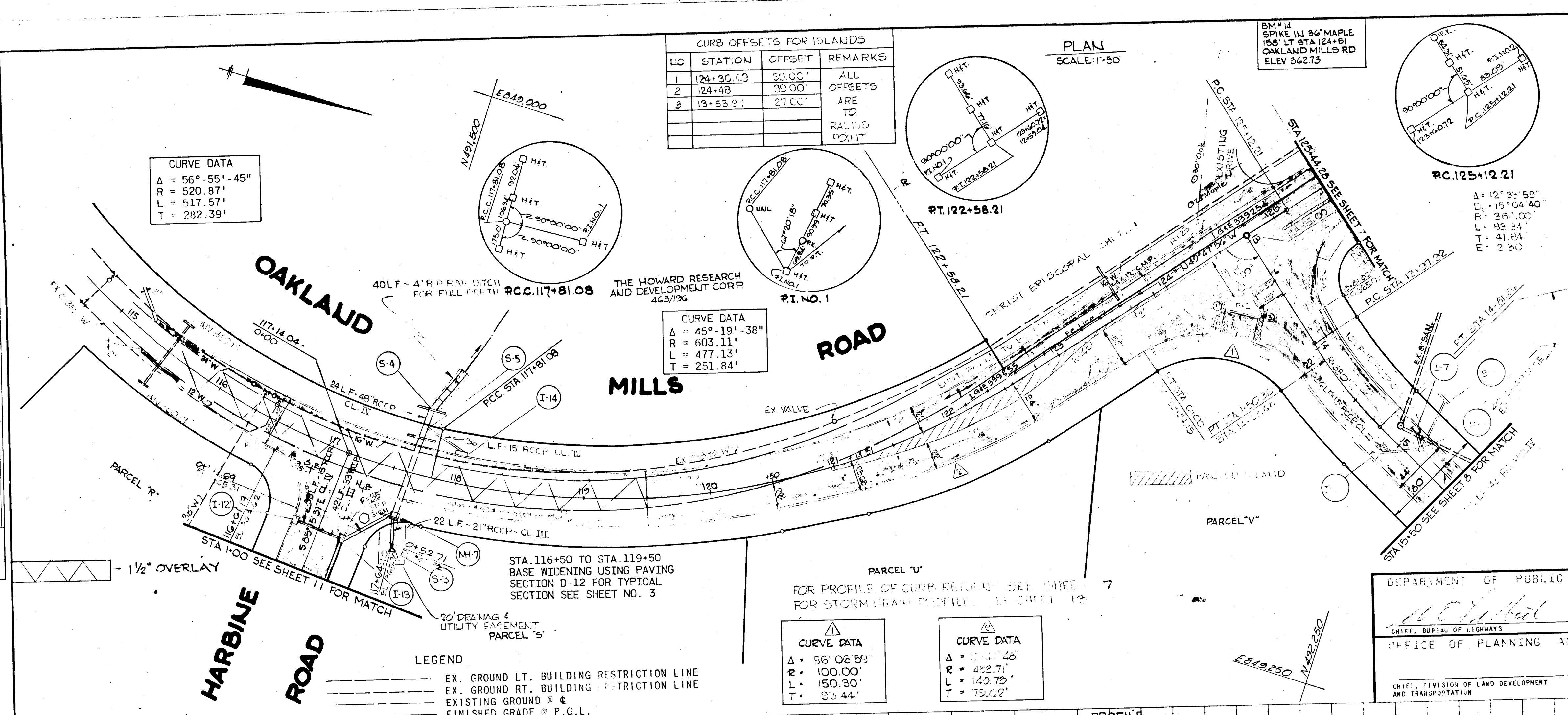
1-73-720  
 018

LOC	STATION	OFFSET	REMARKS
1	124+90.00	30.00'	ALL OFFSETS ARE TO RAILING POINT
2	124+49	30.00'	
3	13+53.97	27.00'	

PLAN SCALE: 1"=50'

NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
S-2	ST'D. 'C' ENDWALL	15+00 DOBBIN RD. -52' LT.	356.83	---	---	HO. CO. DWG. D-52 PG. 107
MH-8	SPECIAL MANHOLE	15+15 DOBBIN RD. -10' LT.	359.59 15' 357.28 42'	357.08	TOP = 363.90	SEE DETAIL
I-6	DBL. 'S' COMB.	14+92 DOBBIN RD. -RT.	---	360.00	364.11	HO. CO. DWG. D-99 PG. 154
I-7	DBL. 'S' COMB.	14+98 DOBBIN RD. -LT.	---	360.00	363.81	HO. CO. DWG. D-99 PG. 154
I-12	DBL. 'S' COMB.	0+64 HARBINE RD. -RT.	---	361.34	365.47	HO. CO. DWG. D-99 PG. 154
I-13	DBL. 'S' COMB.	0+64 HARBINE RD. -LT.	360.96-21' 359.46-35'	359.26	365.47	HO. CO. DWG. D-99 PG. 154
S-3	CONC. END SECTION	117+70 OAK MILLS RD. -RT.	359.22	---	---	SEE DETAIL
MH-7	SPECIAL MANHOLE	117+63 OAK MILLS RD. 34' RT.	359.00-21' 358.00-35'	357.48	TOP = 366.20	SEE DETAIL
S-11	ST'D. 'C' ENDWALL	117+68 OAK MILLS RD. 54' LT.	---	356.83	---	HO. CO. DWG. D-52 PG. 107
I-14	A-10 'I' T	118+00 OAK MILLS RD. -LT.	---	361.00	365.21	HO. CO. DWG. 64-A PG. 119A
S-5	PIPE CONNec.	117+68 OAK MILLS RD. 40' LT.	358.32	---	---	
S-7	PIPE CONNec.	15+10 DOBBIN RD. -21' LT.	358.20	---	---	

NOTE: LT. CURB OF DOBBIN ROAD FROM STA. 14+75 TO 15+25 TO BE WARPED TO MOVE LOW SPOT IN GRADE TO INLET I-7



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

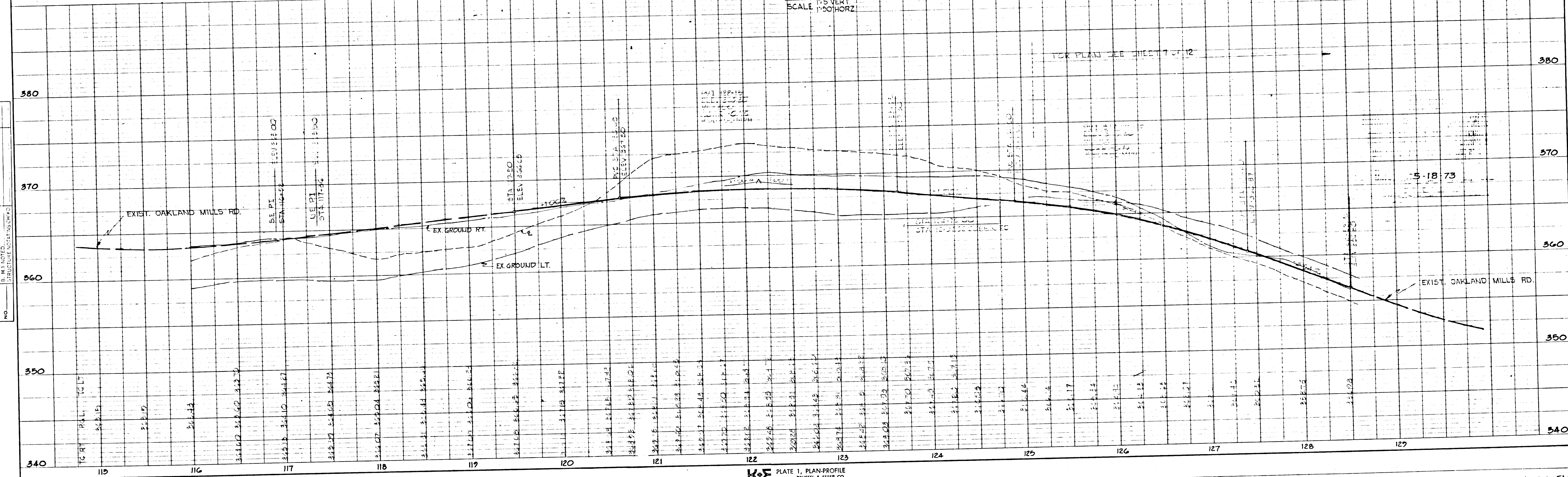
Rev Date	Rev No	Revision Description

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

PROJECT AREA: SIELING INDUSTRIAL CENTER SECTION 1 AREA 1  
PROJECT TITLE: OAKLAND MILLS ROAD STA. 115+00 TO STA. 125+12.21

Des. By: F.T. & K.L. Scale: AS SHOWN Dwg. No.: 6  
Dwn. By: J.D. Date: MARCH 2, 1973 C.C.F. No.:  
Chk. By: J.T.J. Approved:

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



PI 78772 Co 1

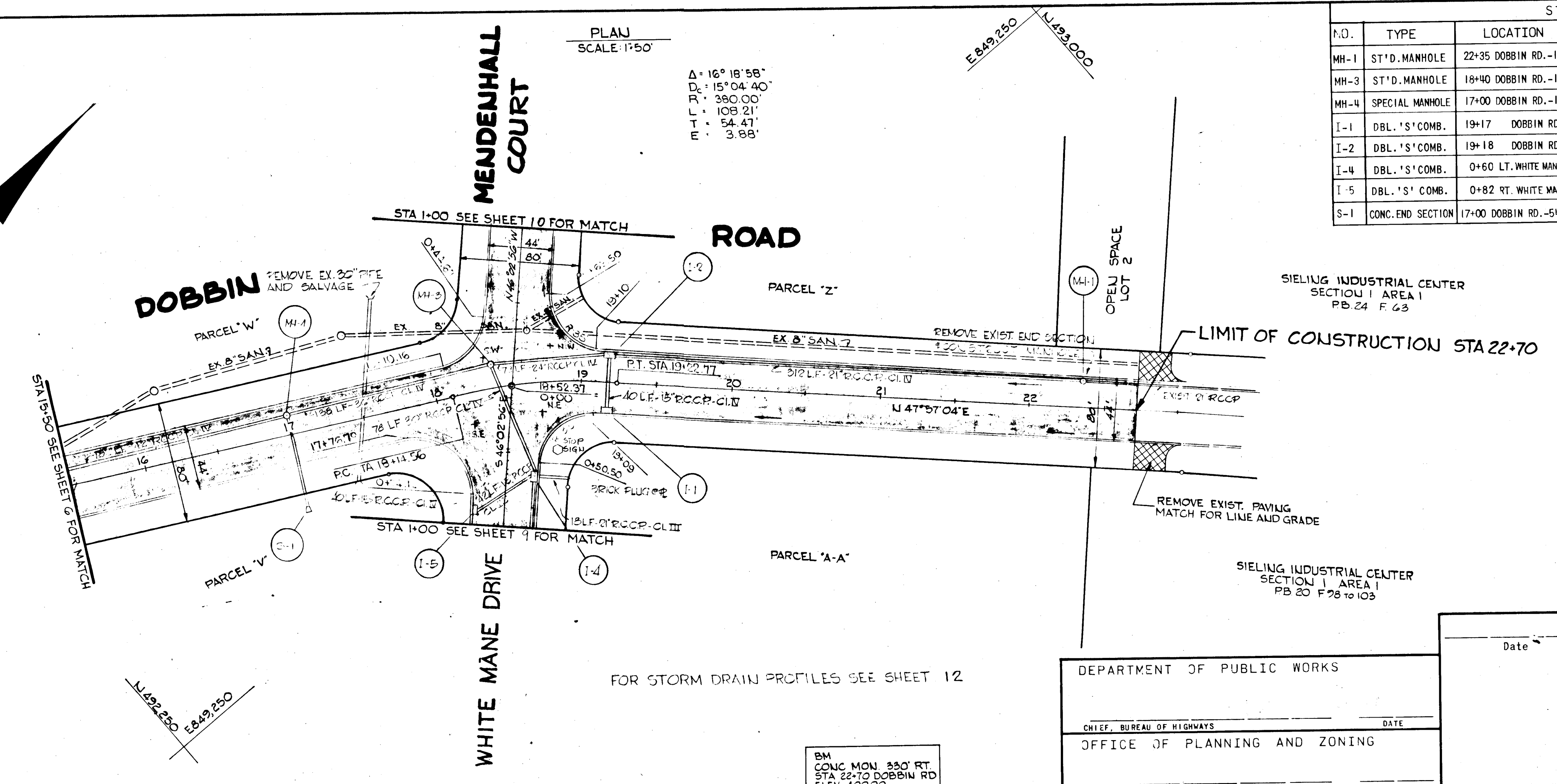
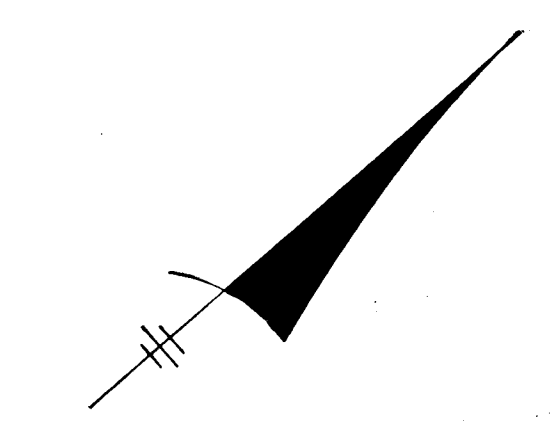


PLAN  
 SURVEYED, PLOTTED, CHECKED, AND PLOTTED  
 NOTE BOOK ALIGNMENT CHECKED AT 1/2" SCALE  
 NO. \_\_\_\_\_ DATE \_\_\_\_\_

PROFILE  
 SURVEYED, PLOTTED, CHECKED, AND PLOTTED  
 NOTE BOOK STRUCTURE NOT CHECKED  
 NO. \_\_\_\_\_ DATE \_\_\_\_\_

STRUCTURE SCHEDULE						
N.O.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
MH-1	ST'D. MANHOLE	22+35 DOBBIN RD. -18' LT.	---	374.20	TOP = 380.30	HO. CO. DWG. D-103 PG. 158
MH-3	ST'D. MANHOLE	18+40 DOBBIN RD. -16' LT.	361.60-24" 361.12-30"	360.61	TOP = 368.40	HO. CO. DWG. D-103 PG. 158
MH-4	SPECIAL MANHOLE	17+00 DOBBIN RD. -13' LT.	359.69-24" 358.69-30"	358.19	TOP = 366.10	SEE DETAIL
I-1	DBL. 'S' COMB.	19+17 DOBBIN RD. RT.	---	366.80	370.22	HO. CO. DWG. D-99 PG. 154
I-2	DBL. 'S' COMB.	19+18 DOBBIN RD. LT.	366.00-15" 365.87-21"	365.00	370.22	HO. CO. DWG. D-99 PG. 154
I-4	DBL. 'S' COMB.	0+60 LT. WHITE MANE DRIVE	365.12-15" 364.37-24"	363.87	369.10	HO. CO. DWG. D-99 PG. 154
I-5	DBL. 'S' COMB.	0+82 RT. WHITE MANE DRIVE	---	366.00	369.70	HO. CO. DWG. D-99 PG. 154
S-1	CONC. END SECTION	17+00 DOBBIN RD. -54' RT.	360.02	---	---	SEE DETAIL

PLAN  
 SCALE 1"=50'  
 $\Delta = 16^\circ 18' 58"$   
 $D = 15^\circ 04' 40"$   
 $R = 360.00'$   
 $L = 108.21'$   
 $T = 54.41'$   
 $E = 3.88'$



LEGEND  
 --- EX. GROUND LT. BUILDING RESTRICTION LINE  
 --- EX. GROUND RT. BUILDING RESTRICTION LINE  
 --- EXISTING GROUND @  $\pm$   
 --- FINISHED GRADE @ P.G.L.

DEPARTMENT OF PUBLIC WORKS  
 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

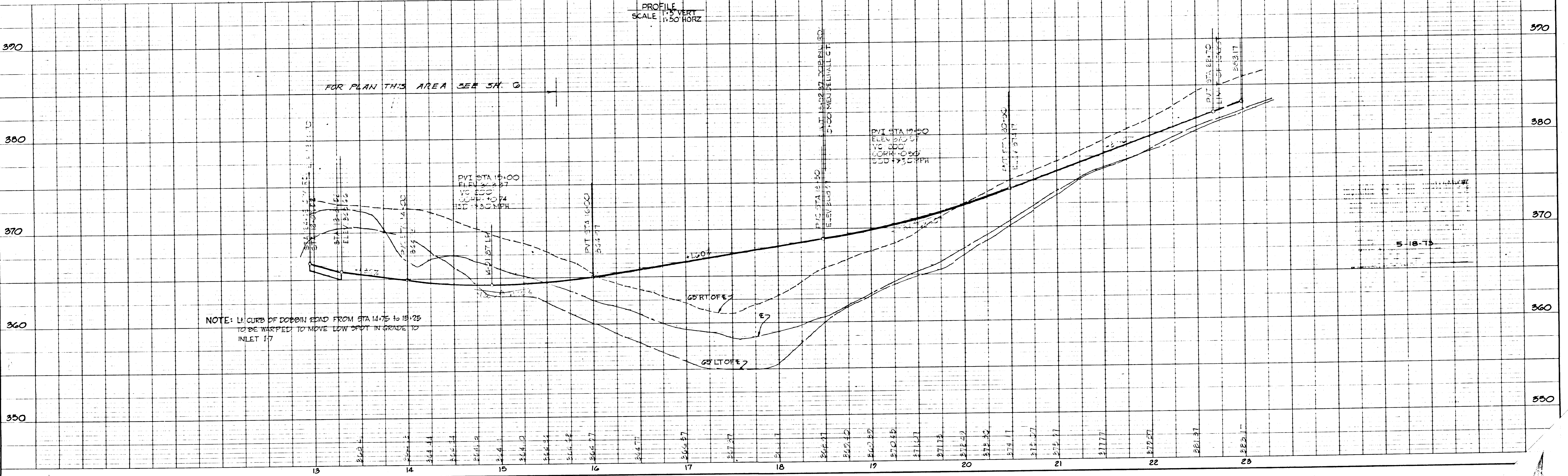
Rev Date \_\_\_\_\_ Rev No \_\_\_\_\_ Revision Description \_\_\_\_\_

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

PROJECT AREA  
 SIELING INDUSTRIAL CENTER  
 SECTION 1 AREA 1

PROJECT TITLE  
 DOBBIN ROAD RT.  
 STA. 15+50 TO 22+70

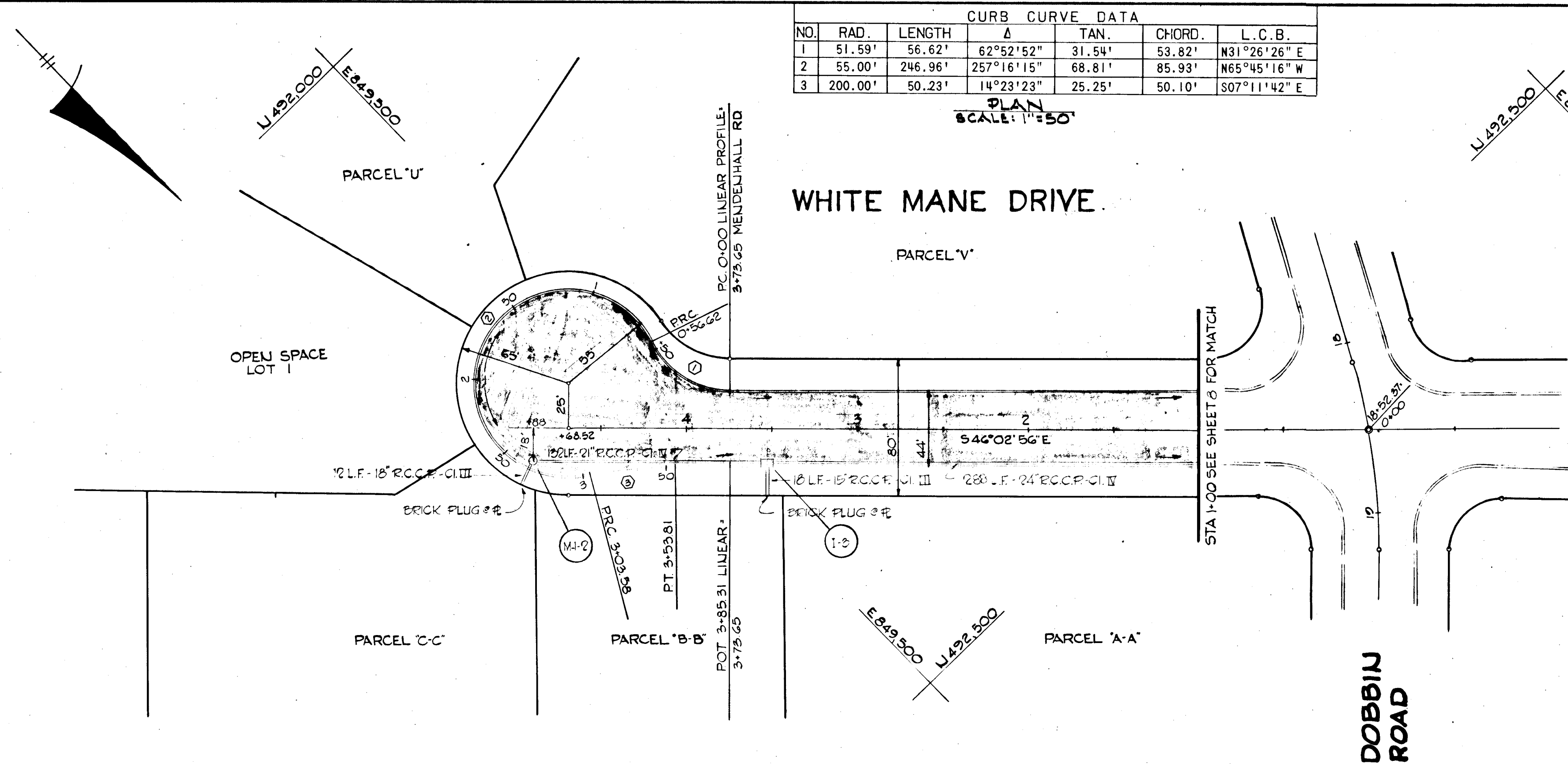
Des By F.T. & K.L. Scale 1" = 50' Dwg. No. 8  
 Dwn By J.D. Date MARCH 2, 1973 C.C.F. No. \_\_\_\_\_  
 Chk By J.T.J. Approved \_\_\_\_\_



CURB CURVE DATA						
NO.	RAD.	LENGTH	Δ	TAN.	CHORD.	L.C.B.
1	51.59'	56.62'	62°52'52"	31.54'	53.82'	N31°26'26" E
2	55.00'	246.96'	257°16'15"	68.81'	85.93'	N65°45'16" W
3	200.00'	50.23'	14°23'23"	25.25'	50.10'	S07°11'42" E

PLAN  
SCALE: 1"=50'

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
MH-2	ST'D. MANHOLE	4+00 LT. WHITE MANE DR 18' RT.	370.00	369.75	TOP = 375.60	HO.CO.DWG. D-103 PG.158
I-3	DBL.'S' COMB.	3+50 LT. WHITE MANE DR. RT.	369.50-15' 368.43-21'	368.18	373.91	HO.CO.DWG. D-99, PG.154



**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: SIELING INDUSTRIAL CENTER SECTION 1 AREA 1  
PROJECT TITLE: WHITE MANE DRIVE STA. 1+00 TO 4+68.52  
Des. By: F.T. & K.L. Scale: AS SHOWN Dwg. No. 9  
Dwn. By: J.D. Date: MARCH 2, 1973 C.C.F. No.  
Chk. By: J.T.J. Approved

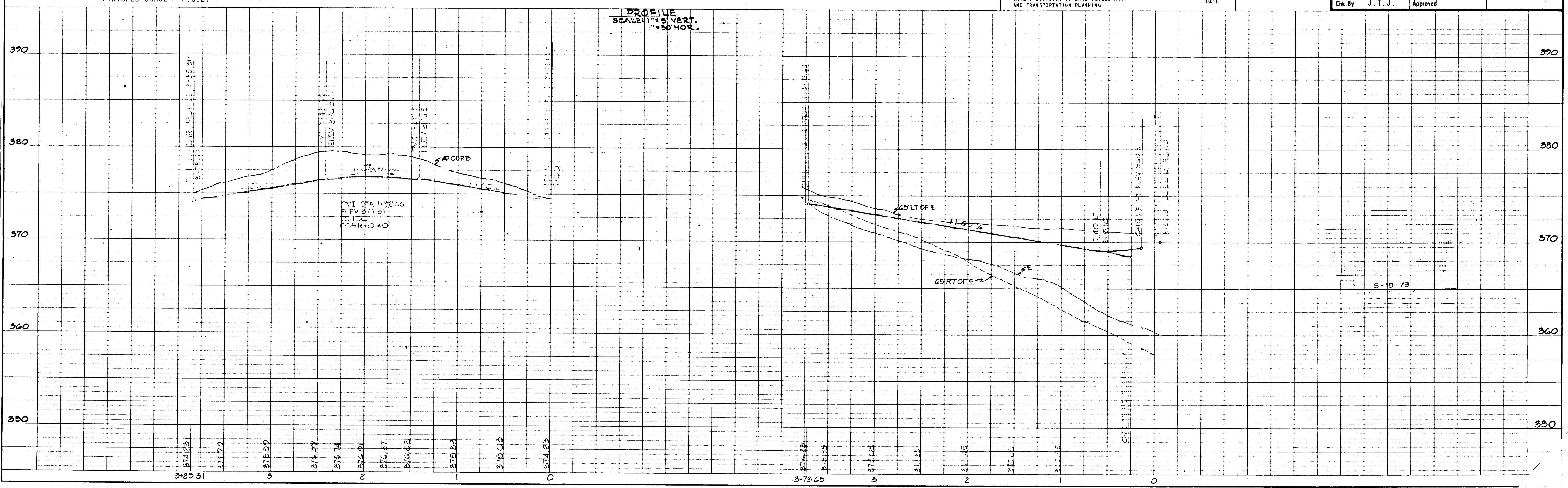
DEPARTMENT OF PUBLIC WORKS  
CHIEF, BUREAU OF HIGHWAYS DATE  
OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

Date

FOR STORM DRAIN PROFILES SEE SHEET 12

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

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





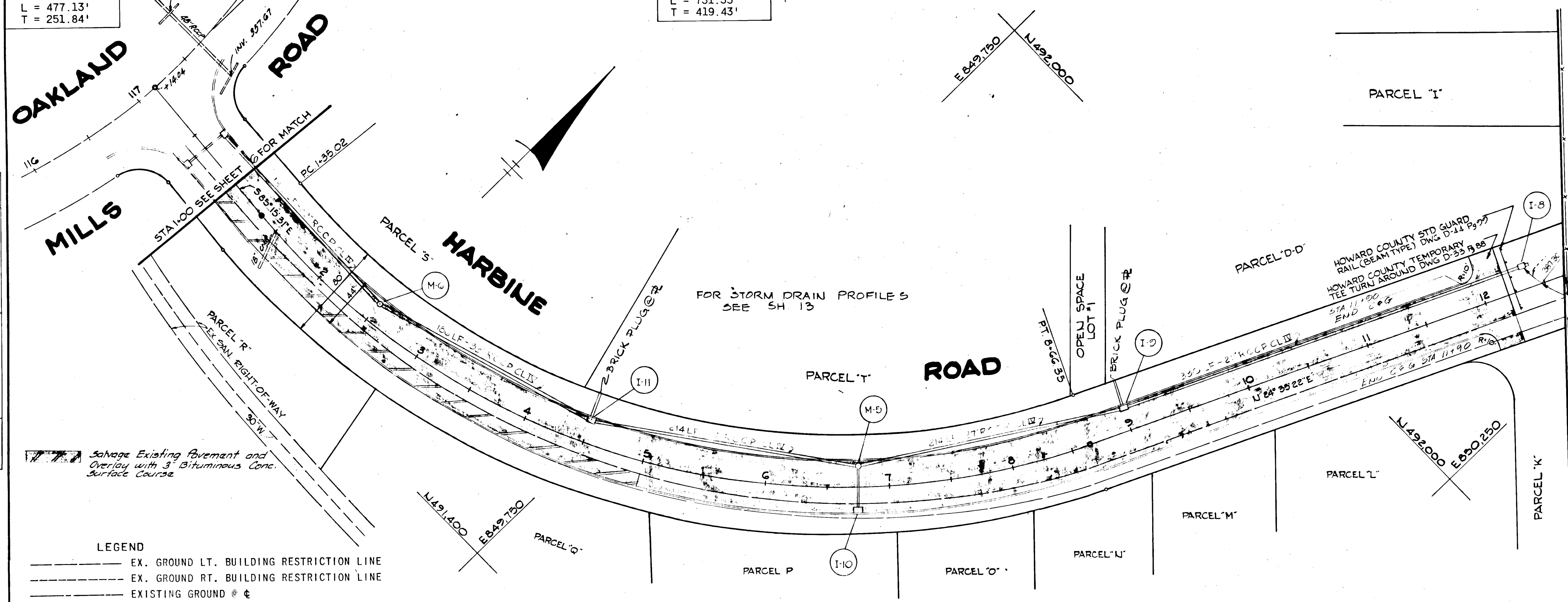


OAKLAND MILLS  
CURVE DATA  
Δ = 45°-19'-38"  
R = 603.11'  
L = 477.13'  
T = 251.84'

CURVE DATA  
Δ = 70°-09'-07"  
R = 597.32'  
L = 731.35'  
T = 419.43'

PLAN  
SCALE 1"=50'

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
MH-6	ST'D. MANHOLE	2+50 HARBINE RD.-16' LT.	361.82	361.62	TOP = 368.80	HO. CO. DWG. D-103 PG. 158
I-11	DBL. 'S' COMB.	4+50 HARBINE RD. LT.	366.79-18' 366.08-33'	365.54	373.33	HO. CO. DWG. D-99 PG. 154
MH-5	ST'D. MANHOLE	6+75 HARBINE RD.-16' LT.	372.38-15' 371.38-21'	371.18	TOP = 377.46	HO. CO. DWG. D-103 PG. 158
I-10	DBL. 'S' COMB.	6+75 HARBINE RD. RT.	372.38-15' 371.38-21'	372.72	377.92	HO. CO. DWG. D-99 PG. 154
I-9	DBL. 'S' COMB.	9+00 HARBINE RD. LT.	376.41-18' 376.16-21'	375.66	381.67	HO. CO. DWG. D-99 PG. 154
I-8	DBL. 'S'	12+36 HARBINE RD. LT.	382.30	382.10	TOP = 386.50	HO. CO. DWG. D-102 PG. 157



DEPARTMENT OF PUBLIC WORKS  
CHIEF, BUREAU OF HIGHWAYS  
OFFICE OF PLANNING AND ZONING  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
**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: SIELING INDUSTRIAL CENTER SECTION 1 AREA 1  
PROJECT TITLE: HARBINE ROAD

Des By	F.T.	Scale	AS SHOWN	Dwg. No.	11
Dim By	J.D.	Date	MARCH 2, 1973	C.C.F. No.	
Chk By	J.T.J.	Approved			

LEGEND  
--- EX. GROUND LT. BUILDING RESTRICTION LINE  
--- EX. GROUND RT. BUILDING RESTRICTION LINE  
--- EXISTING GROUND @ 6'  
--- FINISHED GRADE @ P.G.L.

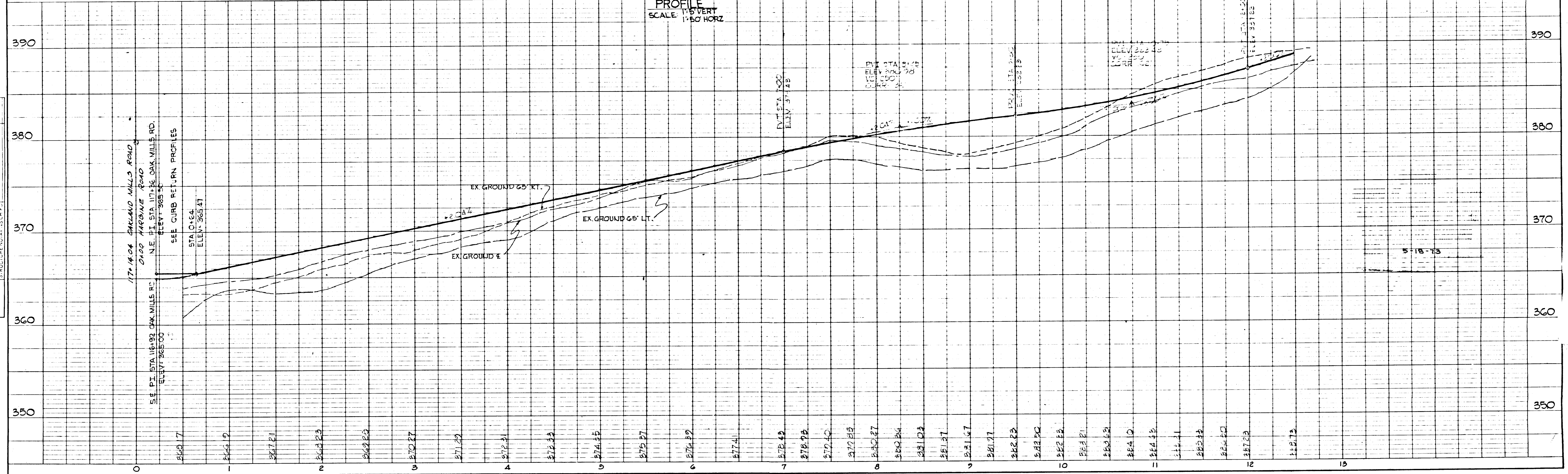
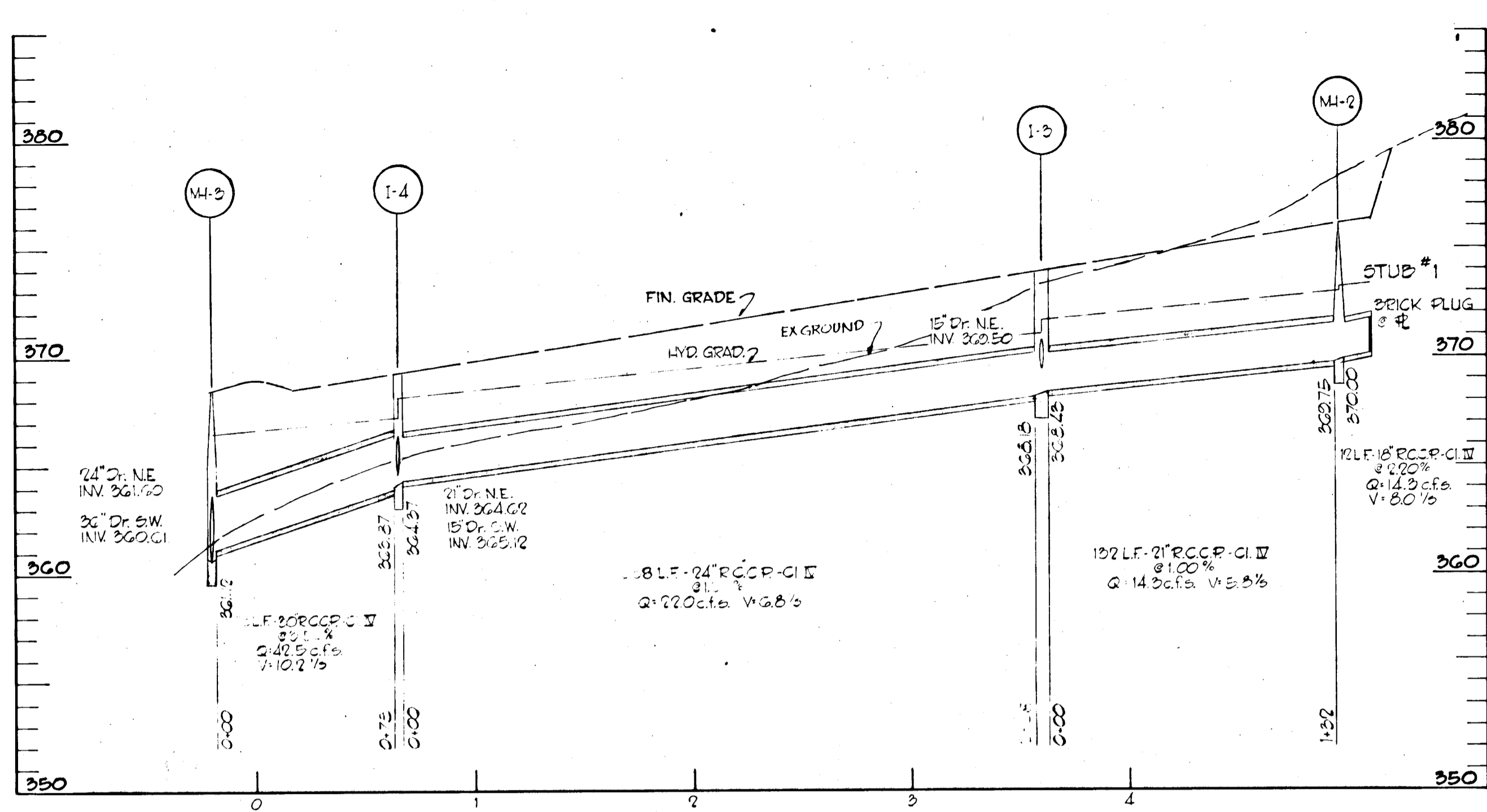


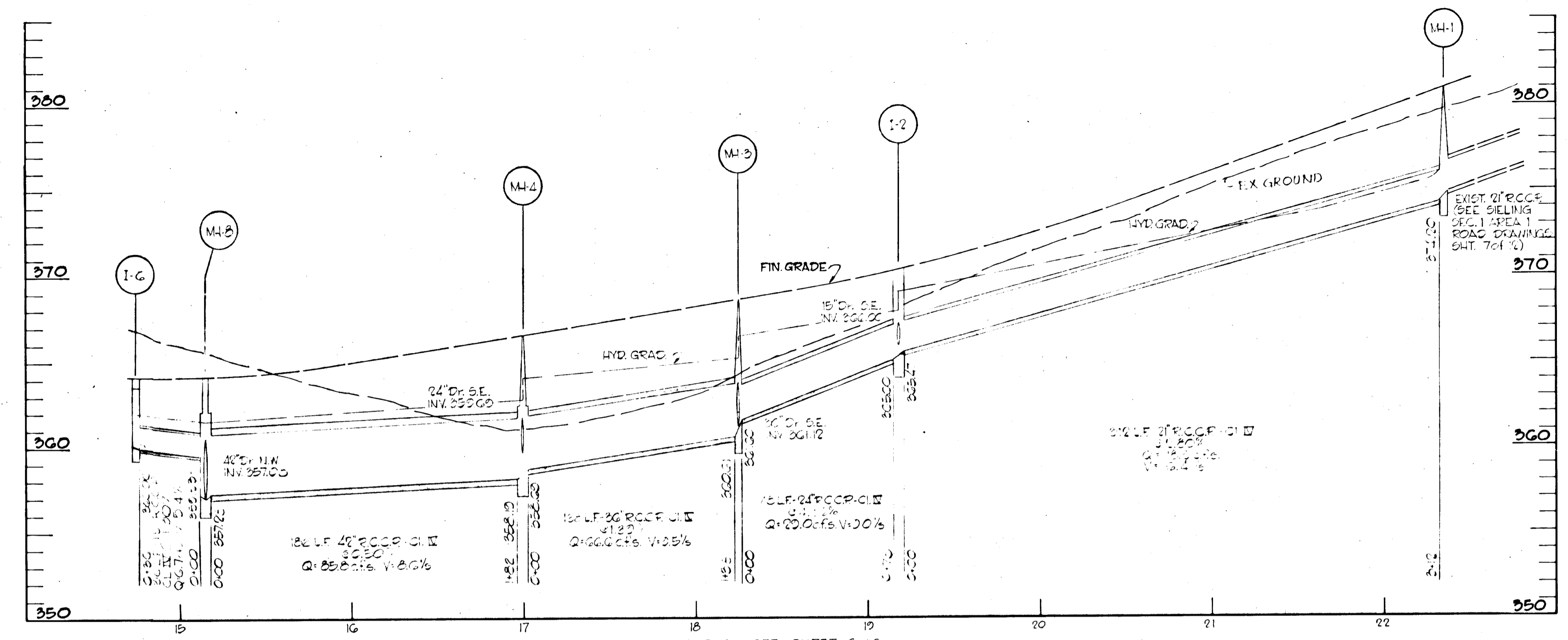
PLATE 1, PLAN-PROFILE  
KEUFEL & ESSER CO.  
48 7020 PHOENIX TRACING CLOTH 28275

F-28-73C  
070

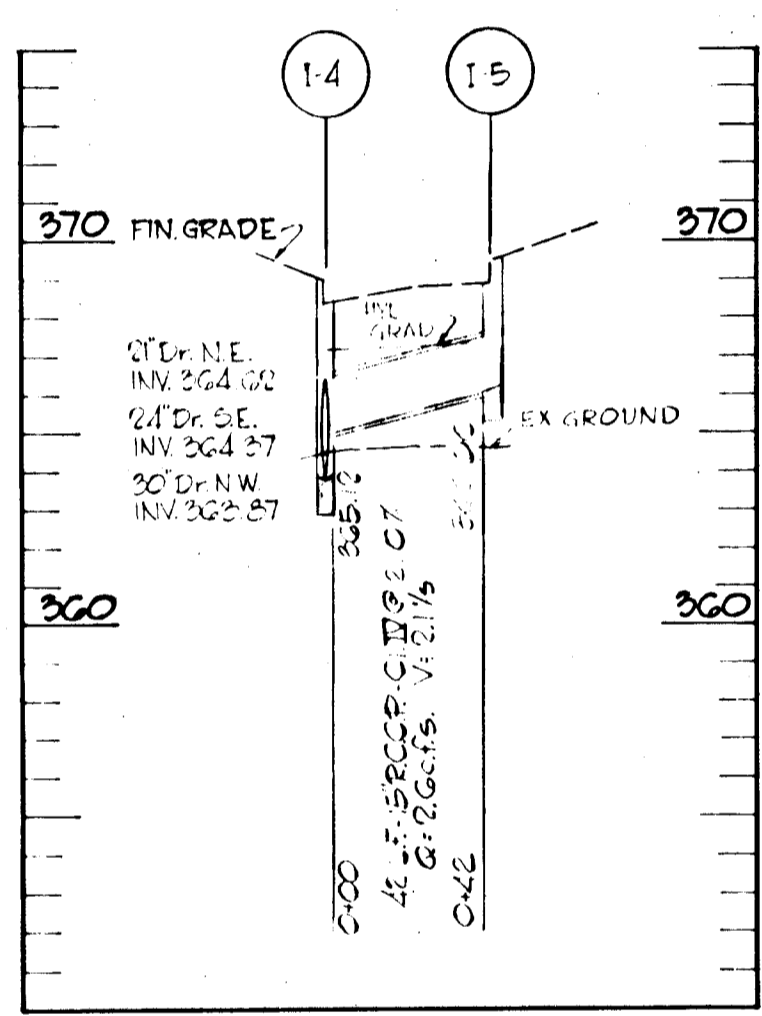




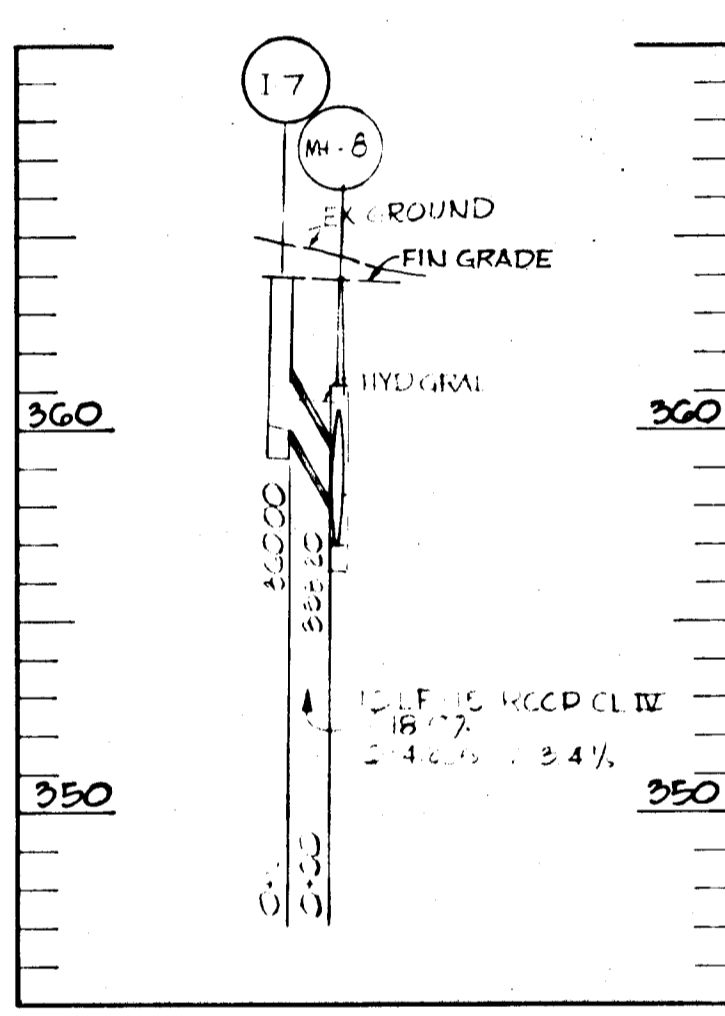
FOR PLAN SEE SHEET 2 AND 3



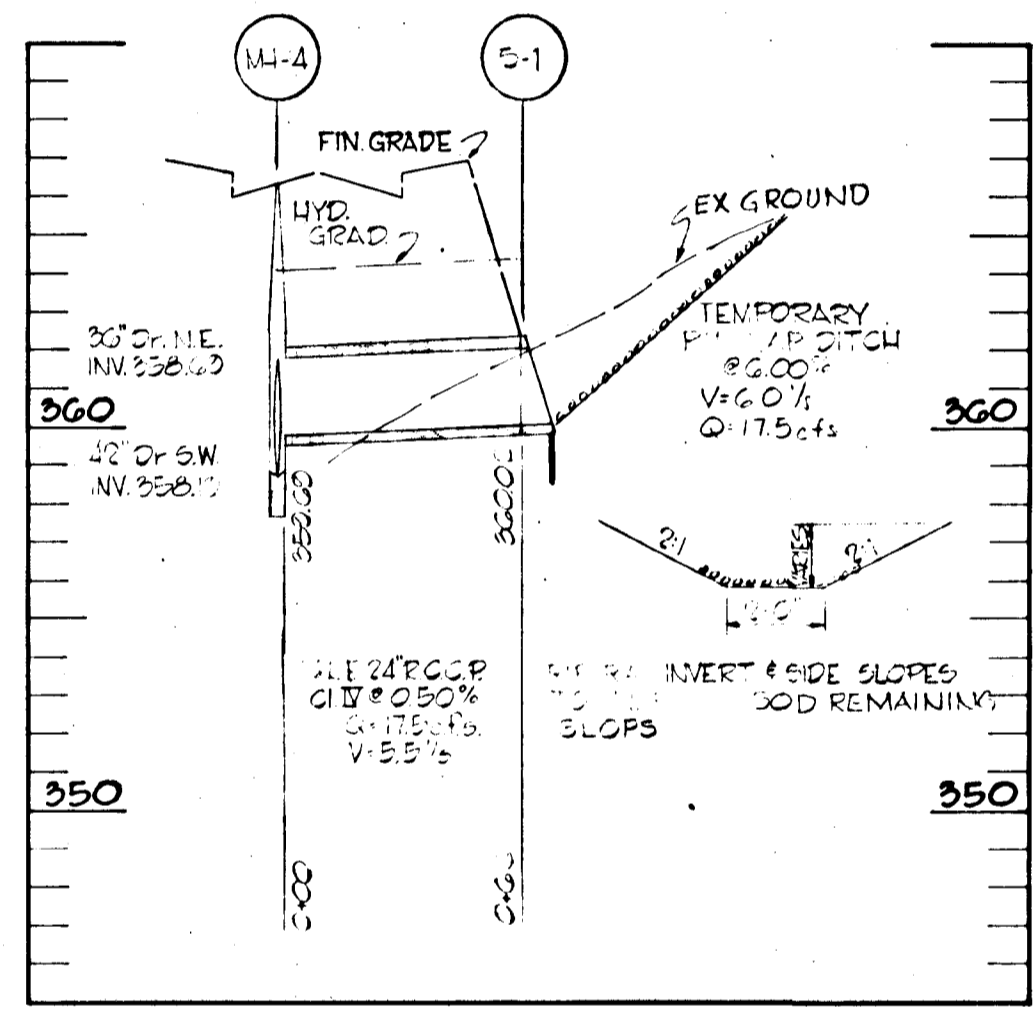
FOR PLAN SEE SHEET 6 & 5



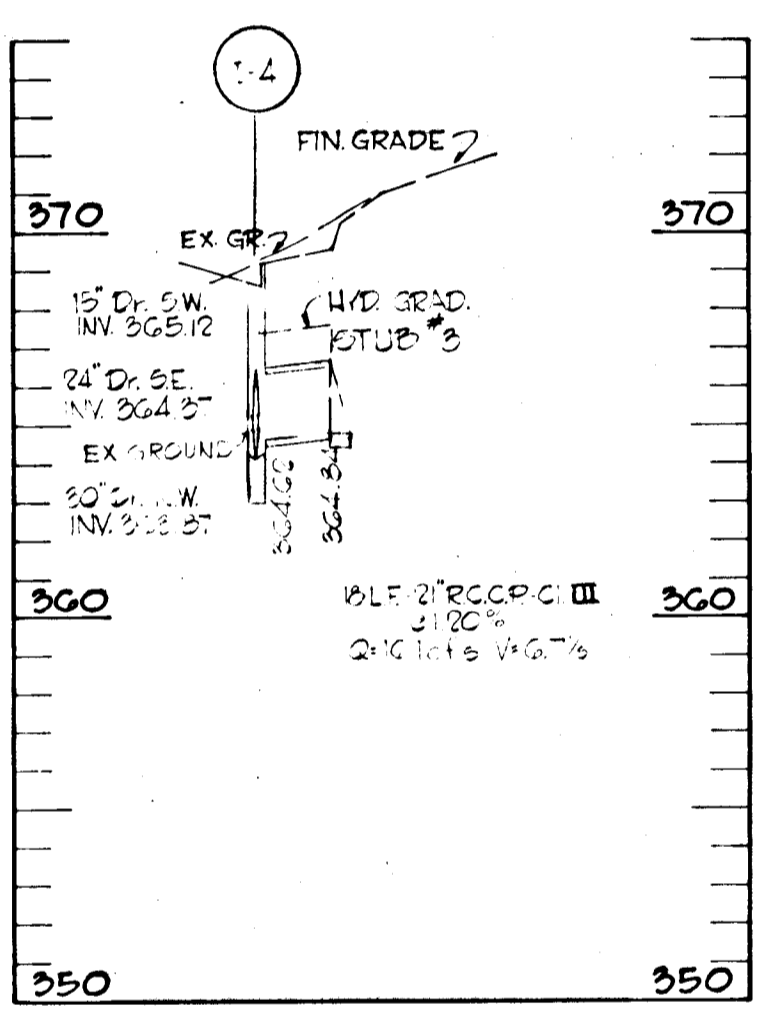
FOR PLAN SEE SHEET 8



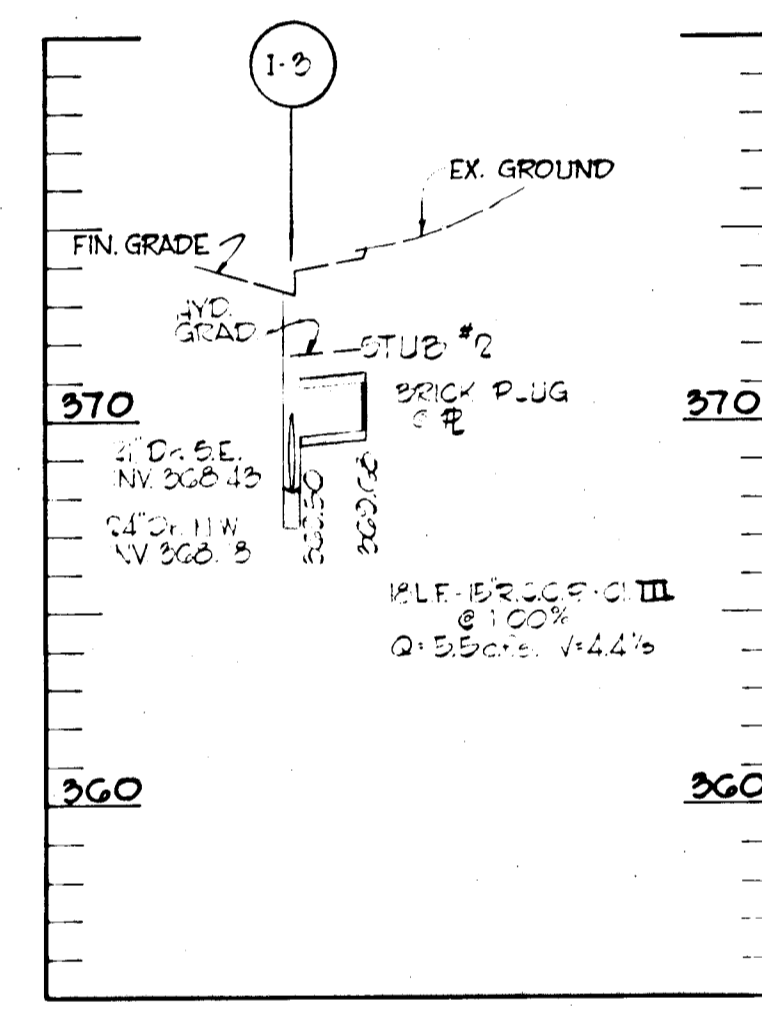
FOR PLAN SEE SHEET 6



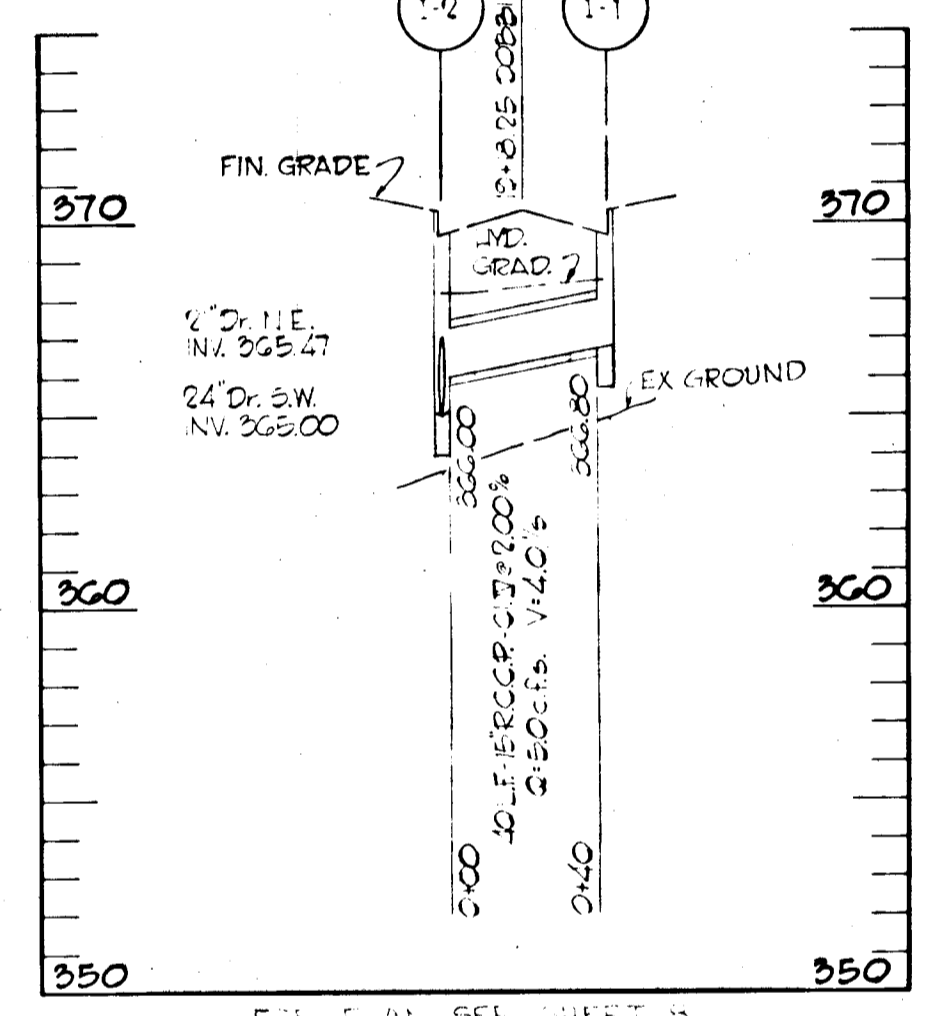
FOR PLAN SEE SHEET 8



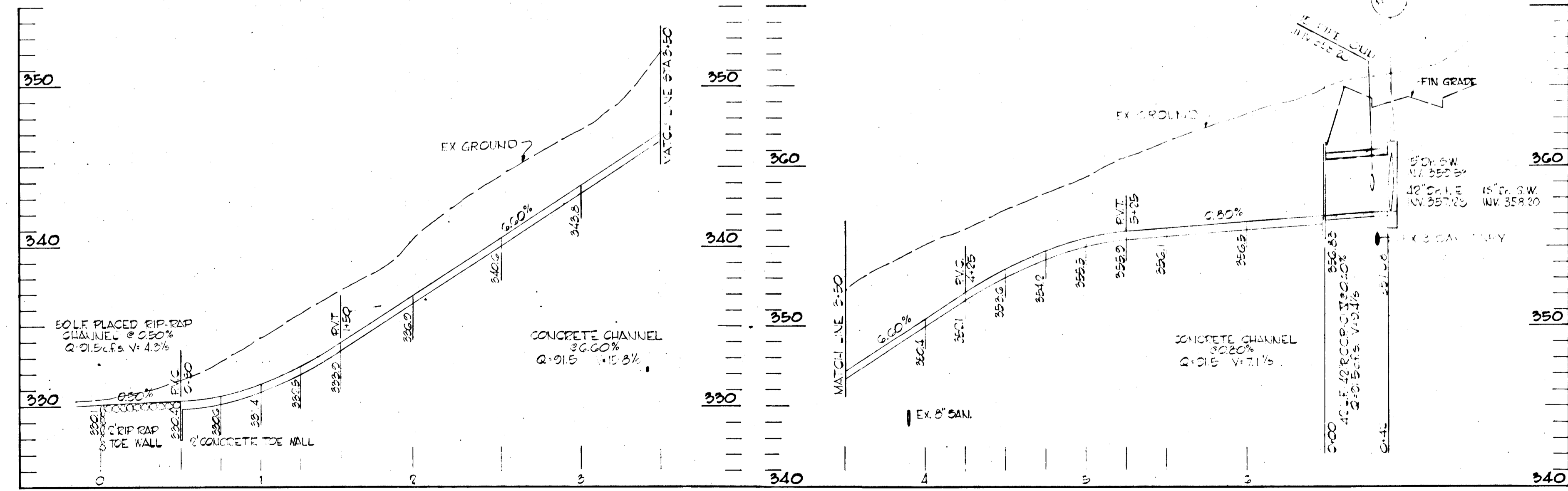
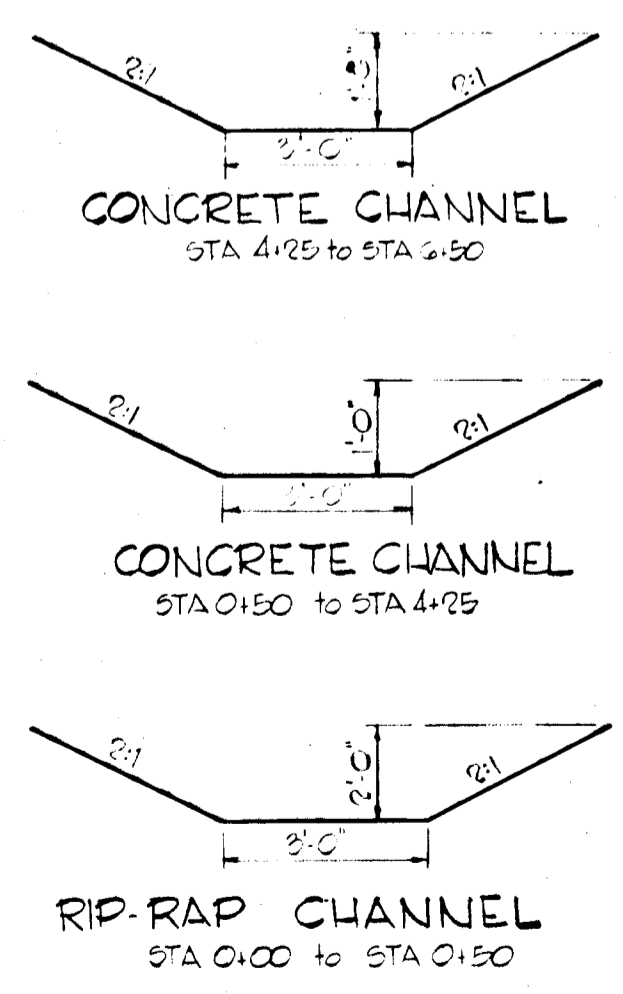
FOR PLAN SEE SHEET 8



FOR PLAN SEE SHEET 3



FOR PLAN SEE SHEET 3

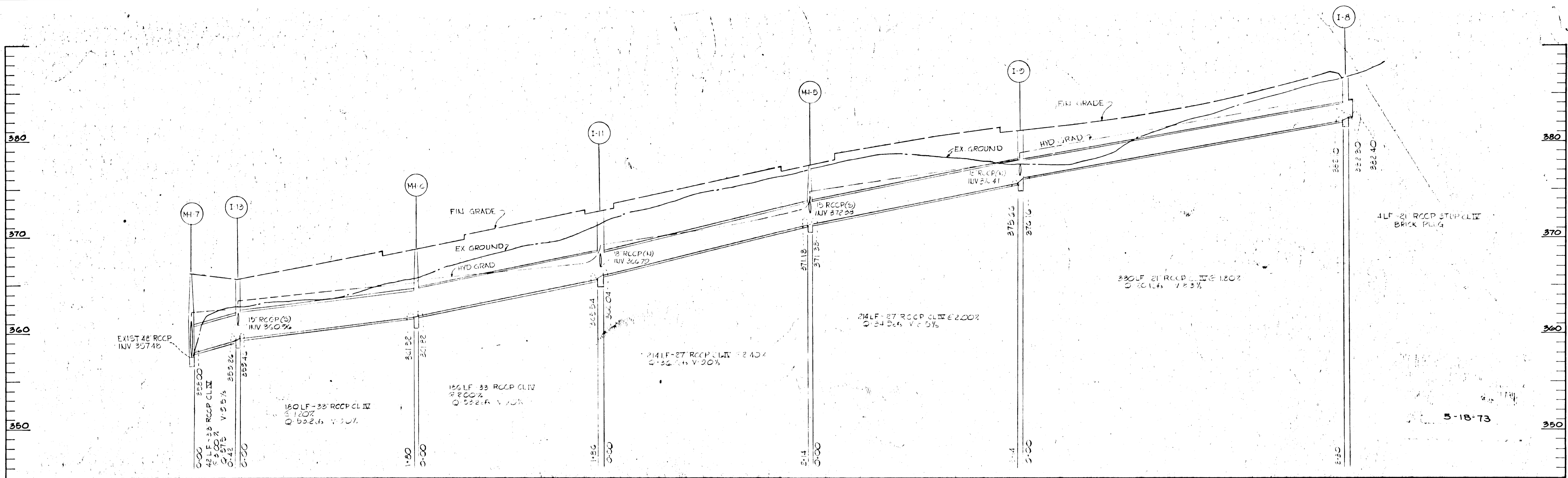


FOR PLAN SEE SHEET 7

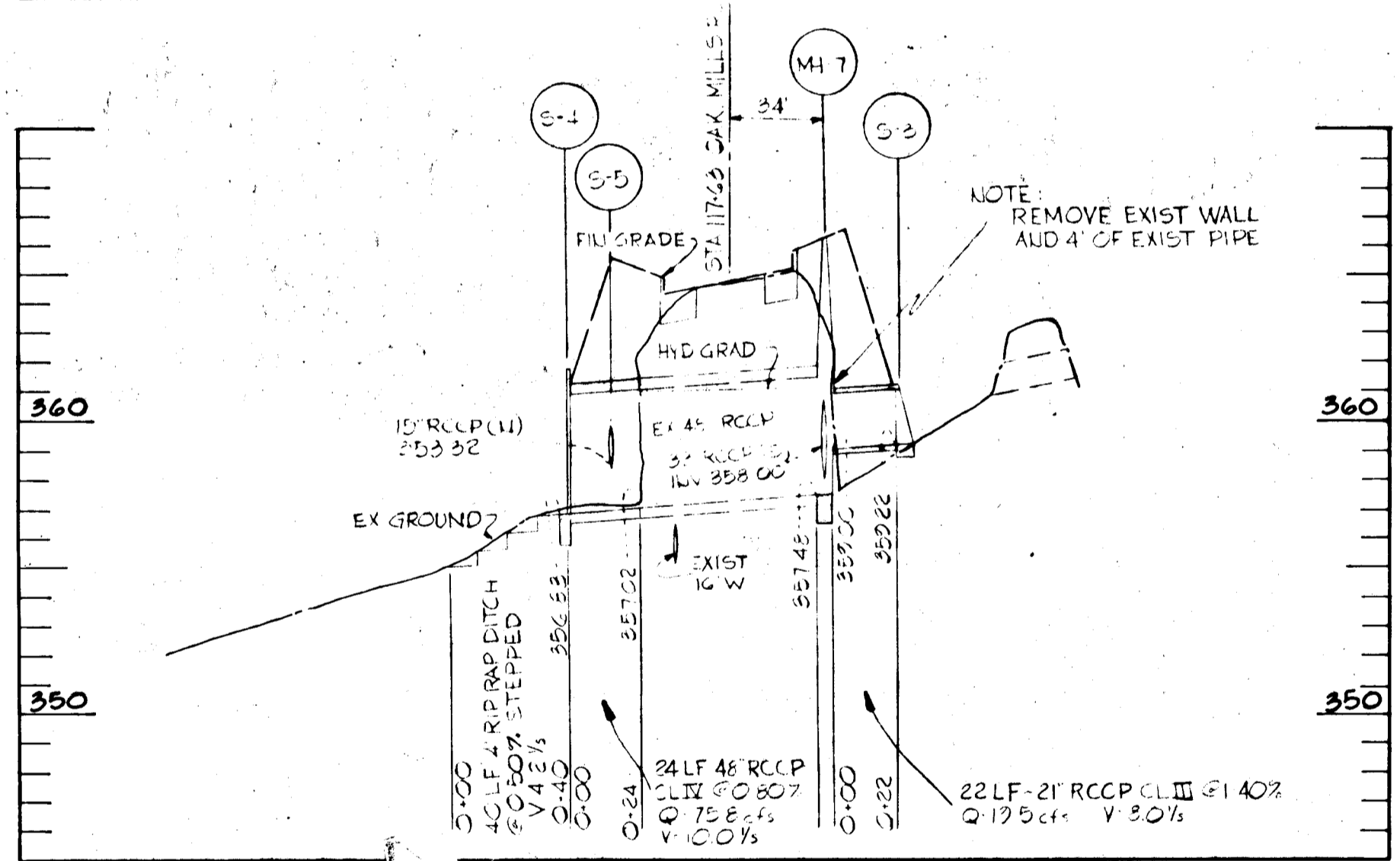
5-18-73

DEPARTMENT OF PUBLIC WORKS		
CHIEF, BUREAU OF HIGHWAYS	DATE	
OFFICE OF PLANNING AND ZONING		
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING	DATE	
<b>GREEN ASSOCIATES, INC.</b>		
CONSULTING ENGINEERS		
TOWSON, MARYLAND		
Rev. Date	Rev. No.	Revision Description
<b>COLUMBIA</b>		
MARYLAND		
6TH ELECTION DISTRICT HOWARD COUNTY		
OWNER AND DEVELOPER		
<b>HOWARD RESEARCH AND DEVELOPMENT CORP.</b>		
COLUMBIA MARYLAND		
PROJECT AREA	SIELING INDUSTRIAL CENTER SECTION 1 AREA 1	
PROJECT TITLE	STORM DRAIN PROFILES	
Des. By F.T. & K.L.	Scale VERT. 1"=5'-0"	Dwg. No. 12
Drn. By J.D.	Date MARCH 2, 1973	C.C.F. No.
Chk. By J.T.J.	Approved	

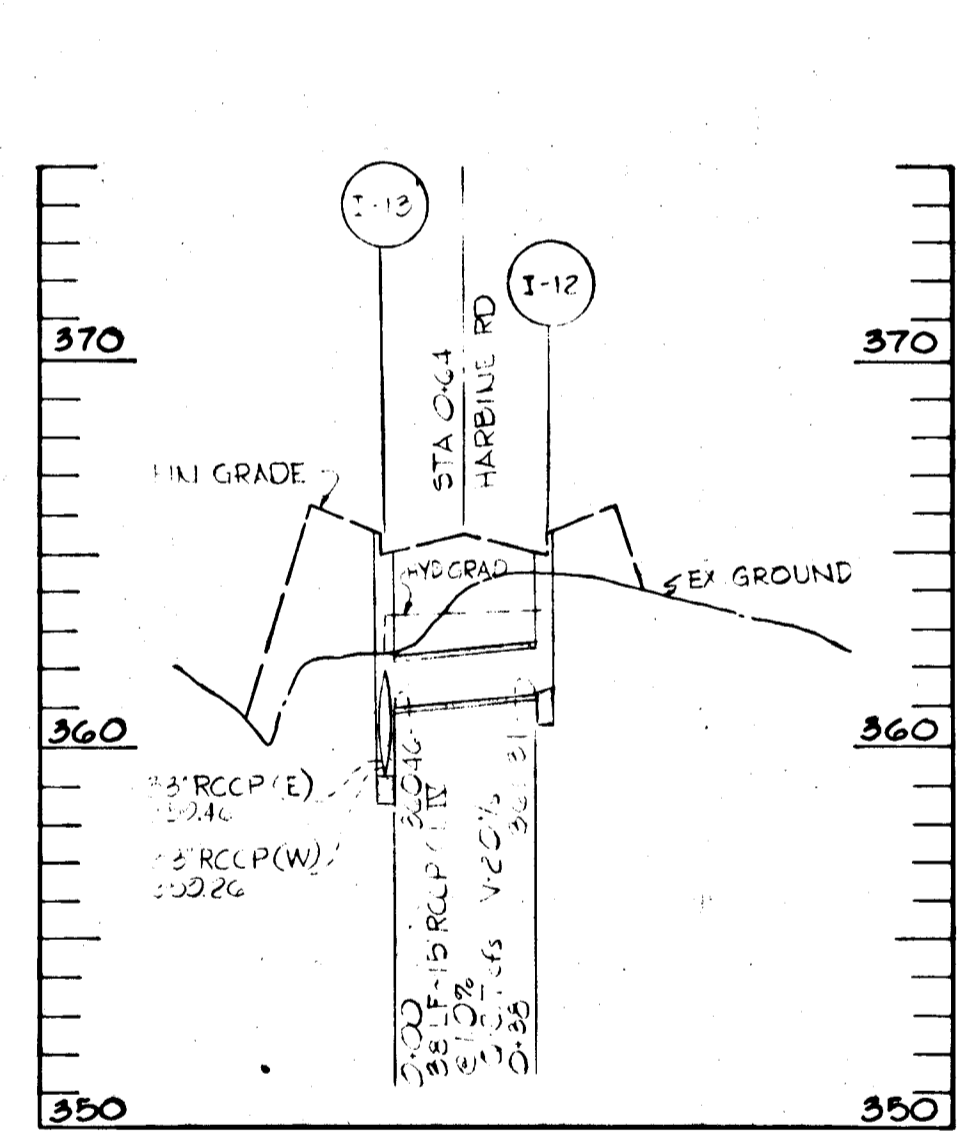
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P-73-710  
-02.1



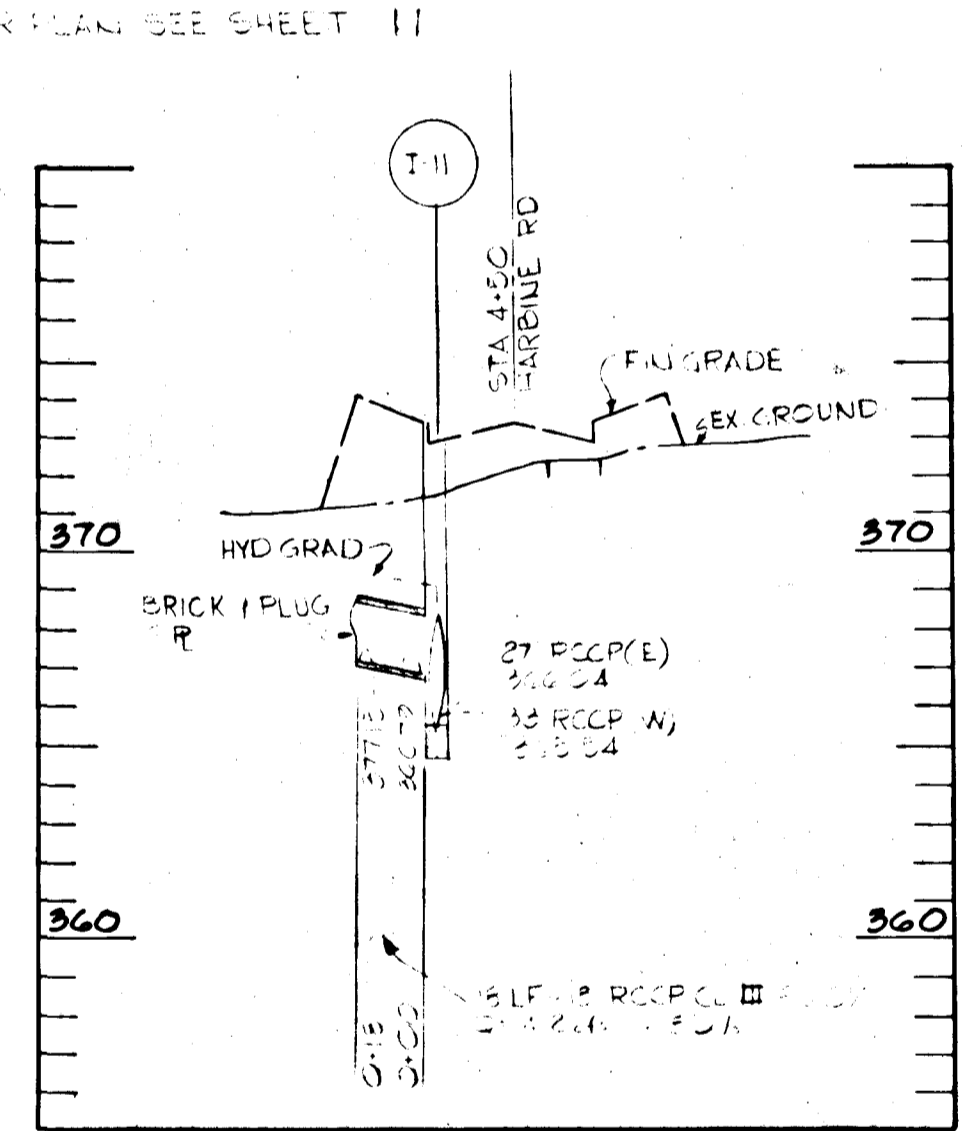
FOR PLAN SEE SHEET 11



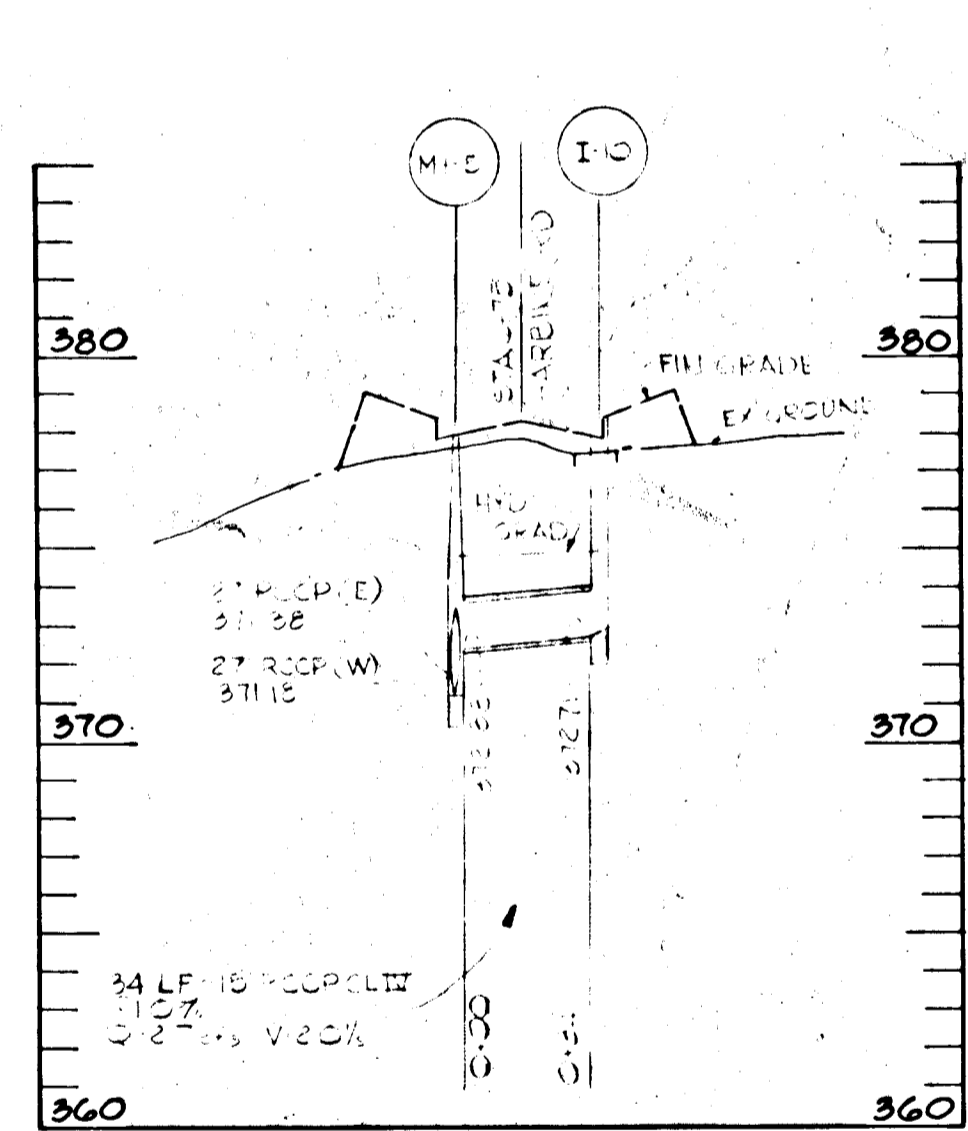
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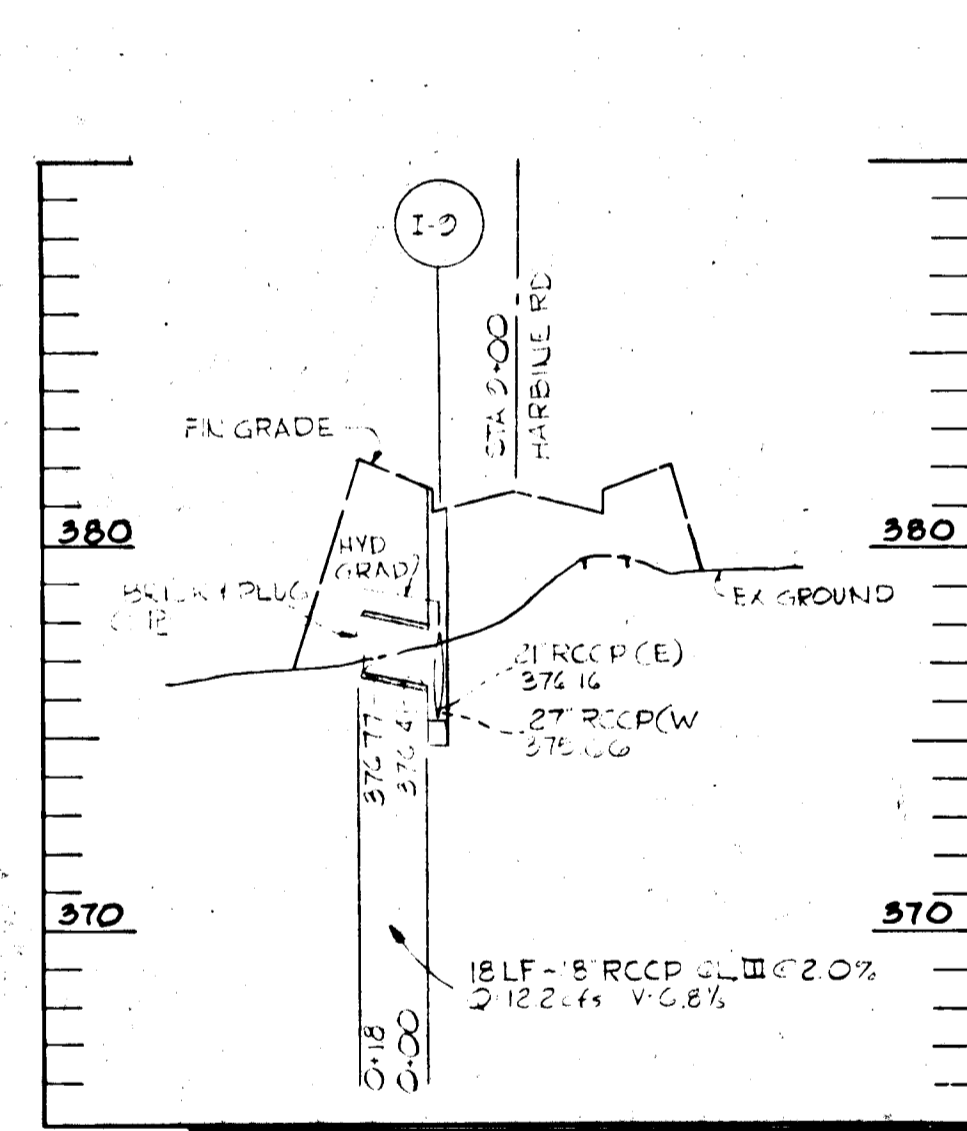
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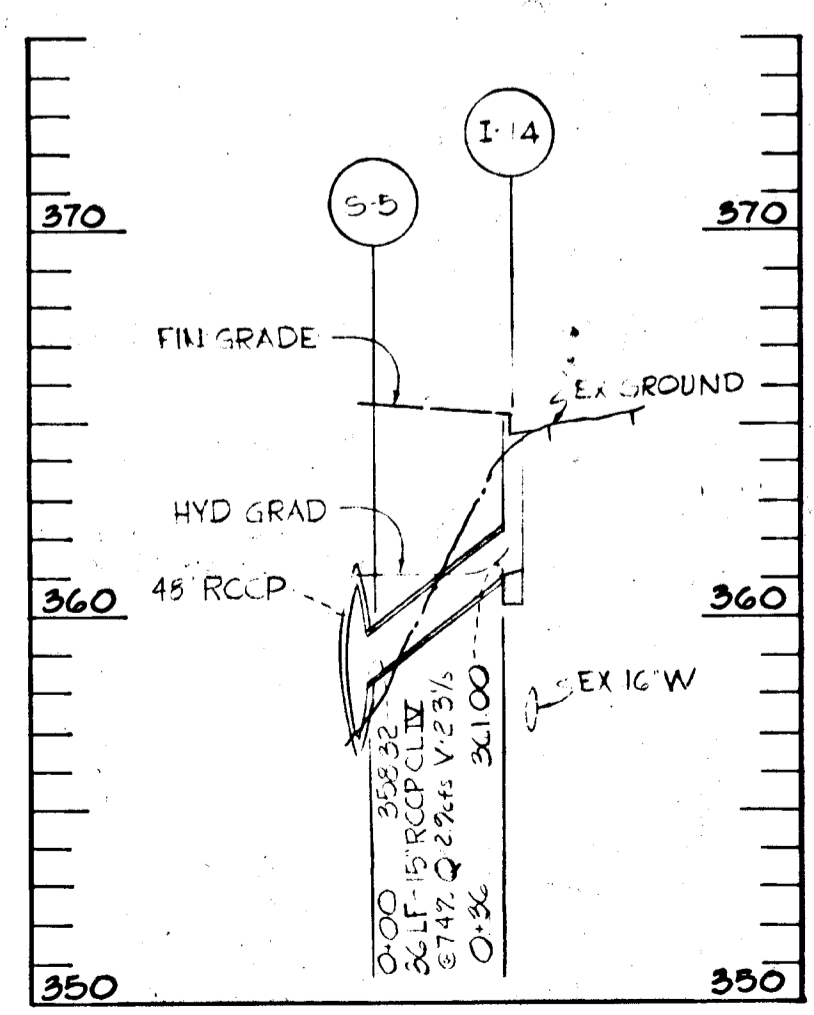
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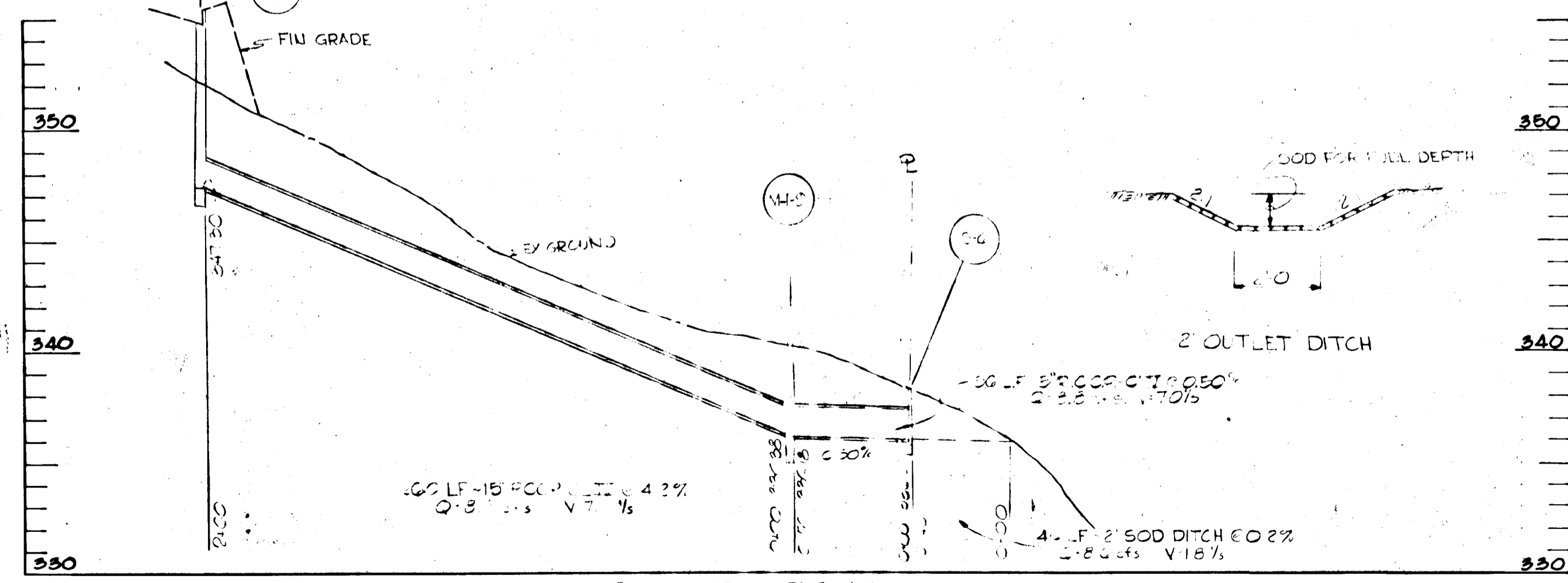
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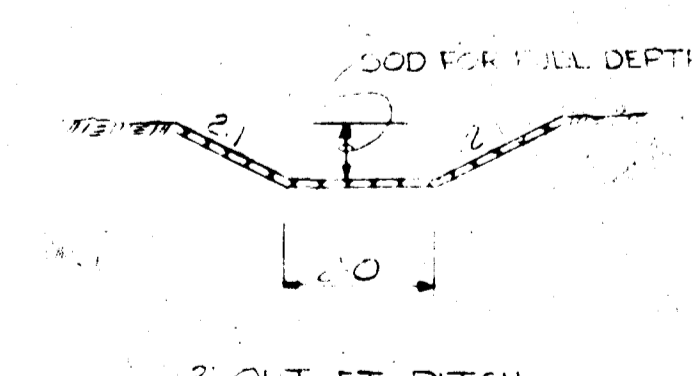
FOR PLAN SEE SHEET 11



FOR PLAN SEE SHEET 6



FOR PLAN SEE SHEET 11



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

Date  
 \_\_\_\_\_

FOR PLAN SEE SHEET 11

**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: SIELING INDUSTRIAL CENTER SECTION 1 AREA 1  
 PROJECT TITLE: STORM DRAIN PROFILES

Des By: F.T. & K.L. Scale: VERT 1" = 10'  
 Dwn By: J.D. Date: MARCH 2, 1973 Dwg. No.: 13  
 Chk By: J.T.J. Approved C.C.F. No.:

73-72C