

FED.AID DIST. NO.	STATE	FED.AID PROJECT	FISCAL YEAR
10	OHIO		

1
78

S.H. (I.C.H) 553 SEC. F- F₂ G₂
MEDINA COUNTY

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CLEVELAND RITTMAN ROAD
S.H. (I.C.H) NO. 553 SEC F₁-F₂-G₂ PET. NO. 6632
MEDINA COUNTY
SHARON TOWNSHIP JUNE 1929.

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO
DEPARTMENT OF HIGHWAYS IN FORCE ON DATE OF CONTRACT
WILL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT
THE MAKING OF THE IMPROVEMENT WILL NOT REQUIRE THE
CLOSING TO TRAFFIC OF THE HIGHWAY

APPROVED _____
DATE _____ RESIDENT DISTRICT DEPUTY DIRECTOR

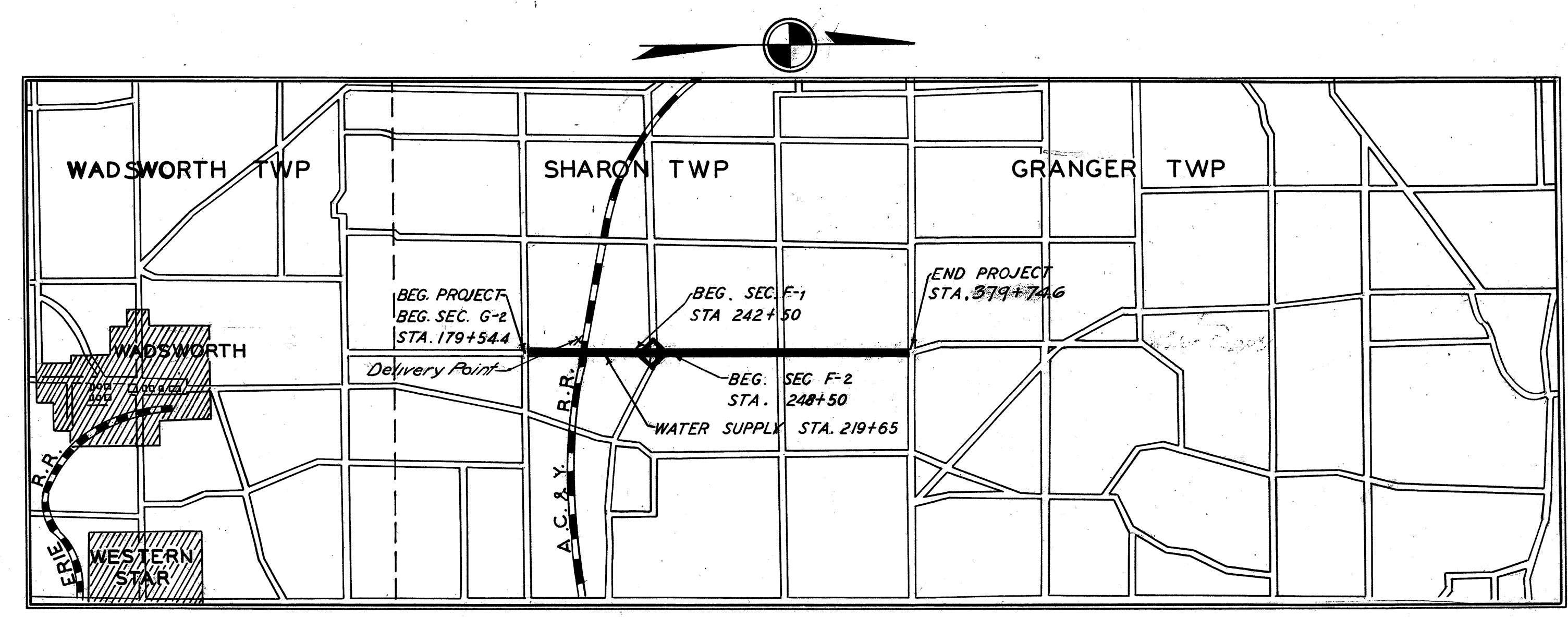
APPROVED *W. D. ...*
DATE *6-28-29* RESIDENT DIVISION DEPUTY DIRECTOR

APPROVED *Robt. D. Beignter*
DATE *7/3/29* DEPUTY DIRECTOR BUREAU OF CONSTRUCTION

APPROVED *Wm. C. ...*
DATE *7/2/29* FIRST ASSISTANT DIRECTOR
CHIEF ENGINEER

APPROVED *Robert M. ...*
DATE *7/2/29* DIRECTOR OF HIGHWAYS

CONSTRUCTION
BUREAU
SEP 2 1929
GROUND PHOTOLAB



LOCATION PLAN
SCALE OF MILES

CONVENTIONAL SIGNS

STATE LINE	-----
COUNTY LINE	-----
TOWNSHIP LINE	-----
SECTION LINE	-----
PROPERTY LINE NOT FENCED	-----
CENTER LINE	-----
CITY OR VILLAGE LINE	-----
FENCE	-x-x-x-
TELEPHONE OR TELEGRAPH	T T T T
STEAM RAILROAD	-----
ELECTRIC LINE	-----
GUARD RAIL	-----
DRAIN PIPE-NEW	-----
DRAIN PIPE-OLD	-----

WE, THE COMMISSIONERS OF MEDINA
COUNTY, HEREBY APPROVE THESE PLANS
AND CERTIFY THAT THE RIGHT-OF-WAY
60 FEET WIDE IS AVAILABLE FOR THE
CONSTRUCTION MAINTENANCE AND REPAIR
OF THE ABOVE HIGHWAY

PORTION TO BE IMPROVED
DETOURS SHOWN THUS
IMPROVED ROADS

SCALES

PLAN	1"=100'
PROFILE VERTICAL	1"=10'
PROFILE HORIZONTAL	1"=100'
CROSS SECTIONS	1"=5'

INDEX OF SHEETS

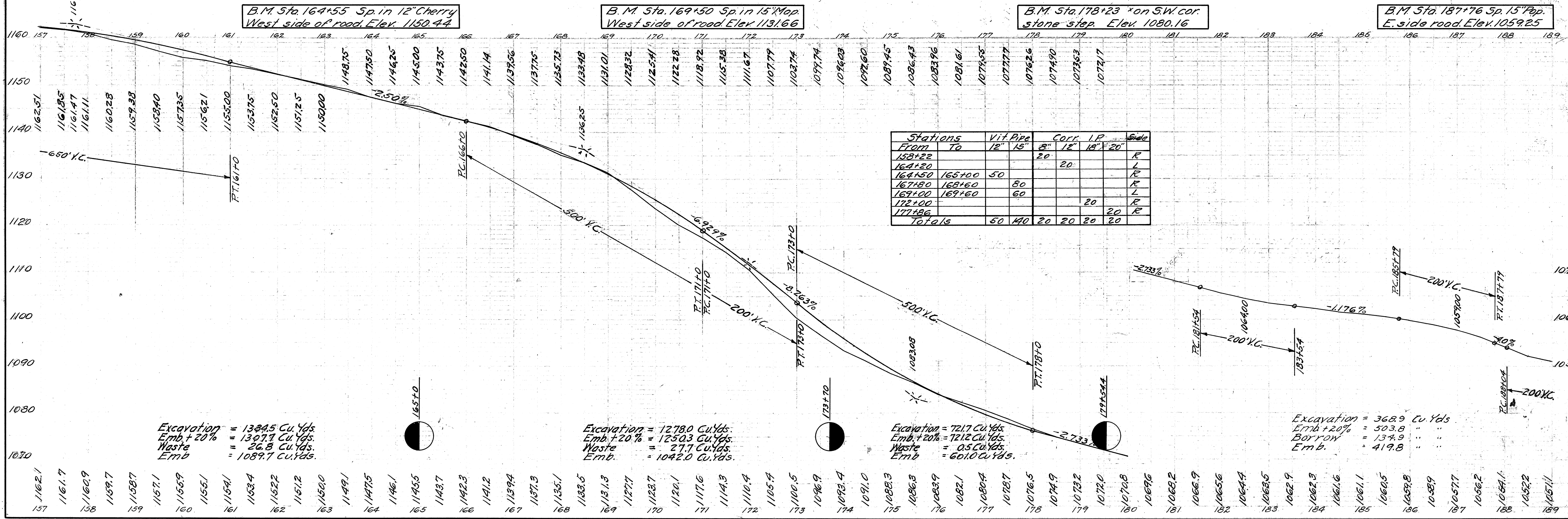
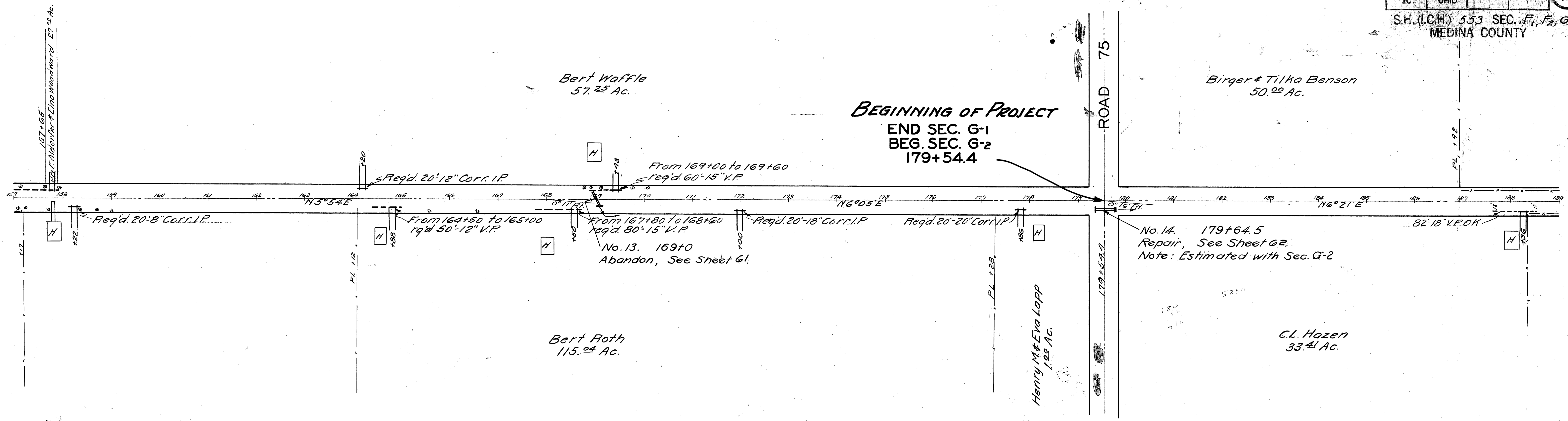
TITLE PAGE	1
TYPICAL CROSS SECTIONS	2
PLANS AND PROFILE	9-16
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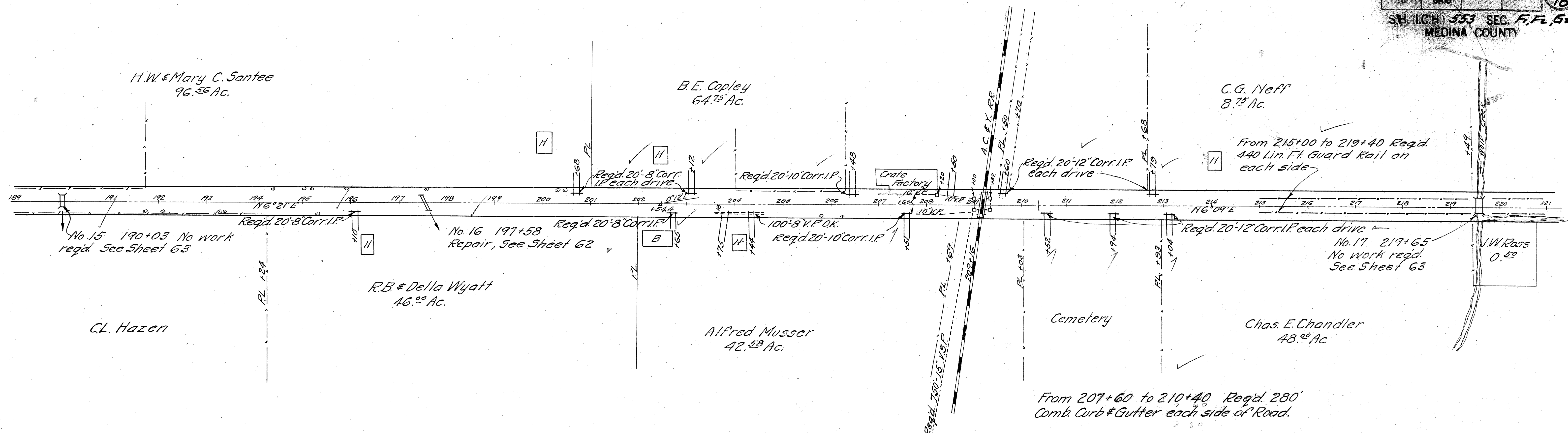
SUPPLEMENTAL PRINTS OF STANDARD DRAWINGS
300, 301, 305, RR-A, AS-2430, SB-2430, 98, 100,
105-A-B-C-D, 130, 134.

DATE _____ COUNTY COMMISSIONERS

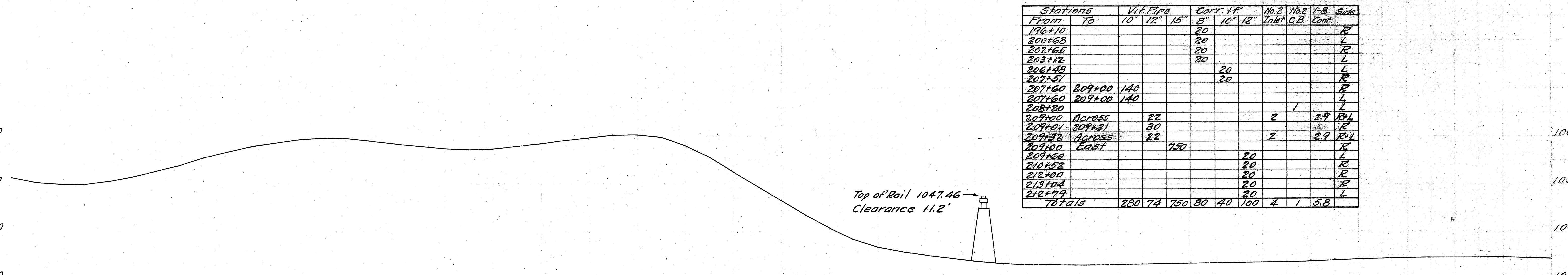
45-M.

BEGINNING OF PROJECT
 END SEC. G-1
 BEG. SEC. G-2
 179+54.4





B.M. Sta. 195+35 Sp. in 30' Ash. E. side road. Elev. 1062.20
 B.M. Sta. 204+20 X on SW cor. stone step Elev. 1052.71
 B.M. Sta. 208+20 N.E. Cor 3rd Bldg. foundation El. 1038.16
 B.M. Sta. 219+50 X on South End West Bridge Curb Elev. 1035.18



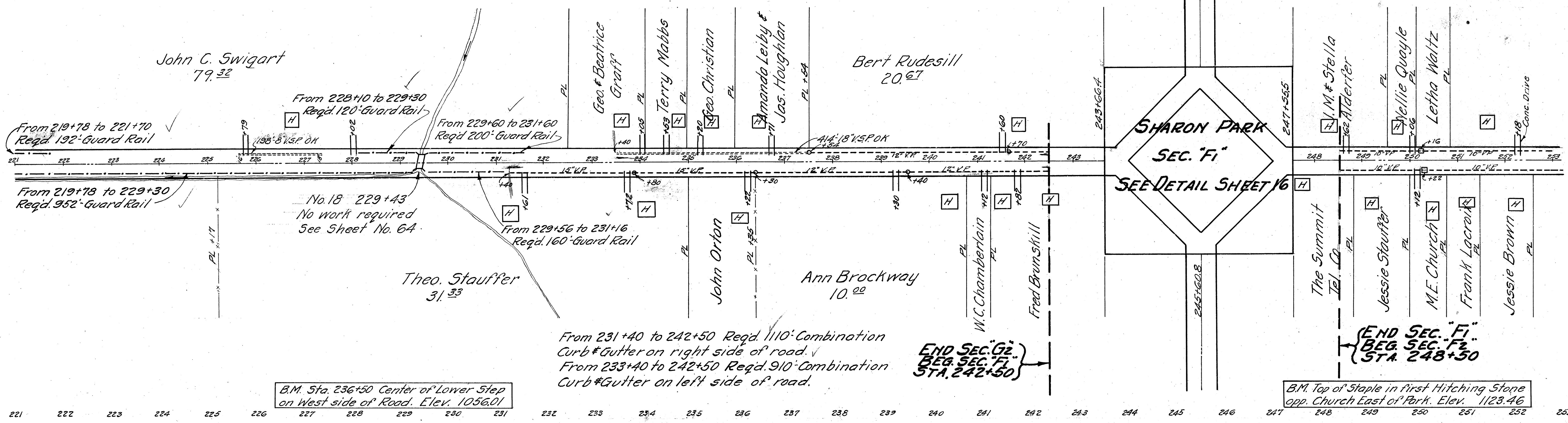
Stations	From	To	Vit. Pipe	Corr. I.P.	No. 2 Inlet	No. 2 C.B.	1-8 Conc.	Side
			10" 12" 15"	8" 10" 12"				
196+10				20				R
200+68				20				L
202+66				20				R
203+12				20				L
206+48				20				R
207+51				20				R
207+60	209+00	140						R
207+60	209+00	140						L
208+20								L
209+00	Across		22		2	2.9		R/L
209+01	209+31		30					R
209+32	Across		22		2	2.9		R/L
209+60	East		750					R
209+60				20				L
210+52				20				R
212+00				20				R
213+04				20				R
212+79				20				L
76+215			280 74 750 80 40	100	4	1	3.8	

Station	Excav.	Emb.	Emb.+20%	Waste
1051.1				
10502				
10499				
10499				
10504				
10514				
10525				
10538				
10534				
10567				
10579				
10586				
10592				
10595				
10594				
10589				
10584				
10578				
10573				
10572				
10573				
10578				
10584				
10591				
10594				
10601				
10602				
10597				
10580				
10556				
10524				
10494				
10465				
10434				
10408				
10395				
10368				
10359				
10351				
10345				
10339				
10335				
10332				
10332				
10331				
10332				
10332				
10333				
10333				
10334				
10335				
10336				
10338				
10338				
10339				
10341				
10342				
10342				
10344				
10345				
10346				
10346				
10345				

Excav. 656.5 Cu. Yds.
 Emb. 351.0 " "
 Emb.+20% 421.1 " "
 Waste 235.4 " "

Excav. 680.6 Cu. Yds.
 Emb. 161.8 " "
 Emb.+20% 194.2 " "
 Waste 486.4 " "

Excav. 300.8 Cu. Yds.
 Emb. 1091.7 " "
 Emb.+20% 1310.1 " "
 Borrow 1009.3 " "



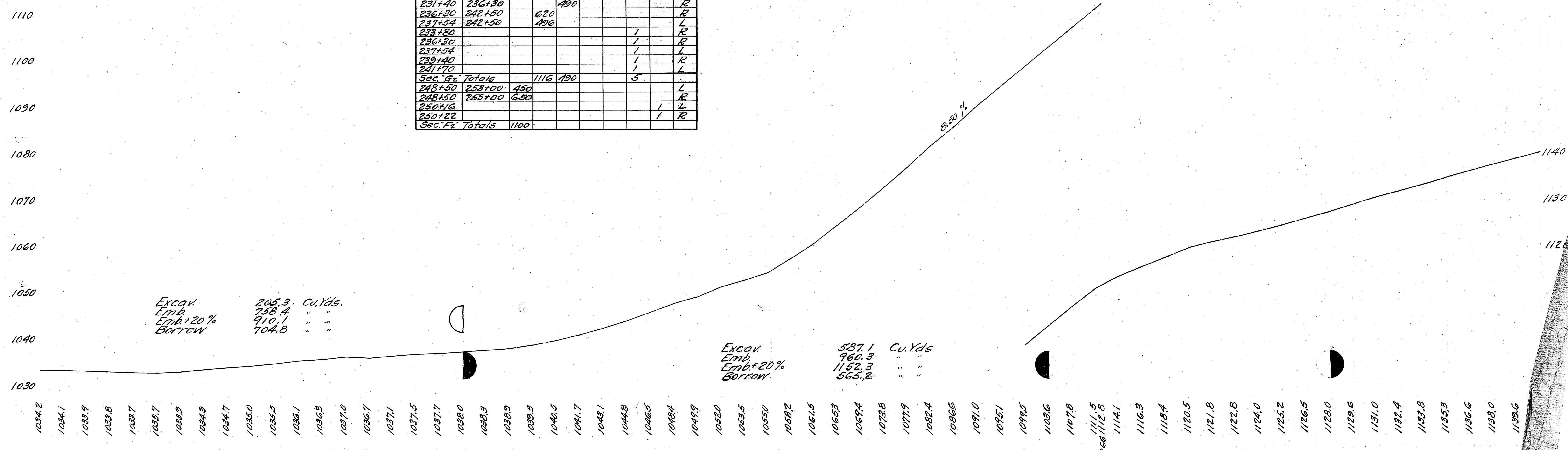
B.M. Sta. 236+50 Center of Lower Step on West side of Road. Elev. 1056.01

END SEC. G₂ BEG. SEC. F₁ STA. 242+50

END SEC. F₁ BEG. SEC. F₂ STA. 248+50

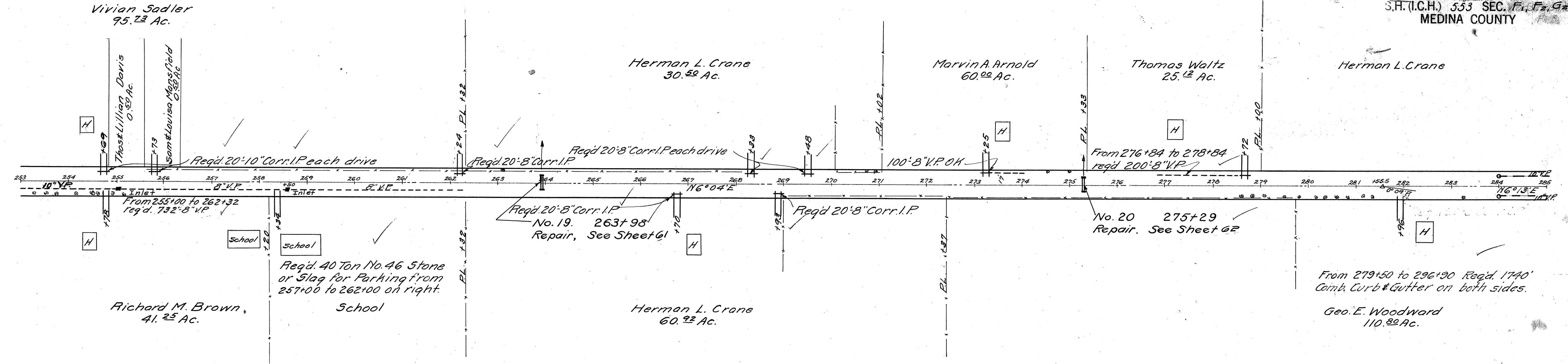
B.M. Top of Staple in First Hitching Stone opp. Church East of Park. Elev. 1123.46

Stations		Vit. Pipe			Corr. I.P.		No. 2 Inlet		No. 2 CB		Side
From	To	10"	12"	15"	10"	12"					
231+40	236+30			490							R
236+30	242+50			620							R
237+54	242+50			496							L
233+80								1			R
236+30								1			R
237+54								1			L
239+40								1			R
241+70								1			L
Sec. G ₂ Totals				1116	490			3			
248+50	253+00	450									L
248+50	255+00	650									R
250+16									1		L
250+22									1		R
Sec. F ₂ Totals		1100									



Excav. 205.3 Cu. Yds.
Emb. 758.4 " "
Emb. + 20% 910.1 " "
Borrow 704.8 " "

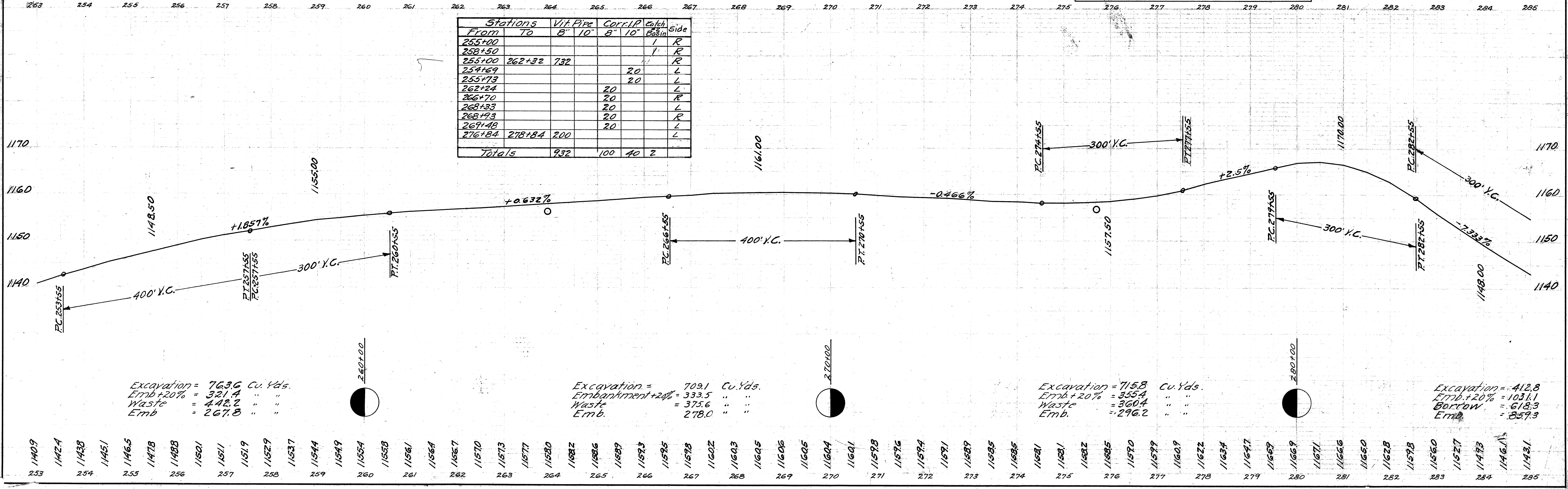
Excav. 587.1 Cu. Yds.
Emb. 960.3 " "
Emb. + 20% 1152.3 " "
Borrow 565.2 " "



B.M. Sta. 254+60 N.E. Cor. Lower Stone Step West Side of Road Elev. 1146.94

B.M. Sta. 277+2.5 N.E. Cor. Stone Step to House West Side of Road Elev. 1160.53

Stations From	Stations To	Vit. Pipe 8" 10"	Corr. I.P. 8" 10"	Catch Basin	Side
255+00				1	R
258+50				1	R
255+00	262+32	732			R
254+69			20		L
255+73			20		L
262+24			20		L
266+70			20		R
268+33			20		L
268+73			20		R
269+48			20		L
276+84	278+84	200			L
Totals		932	100	40	2

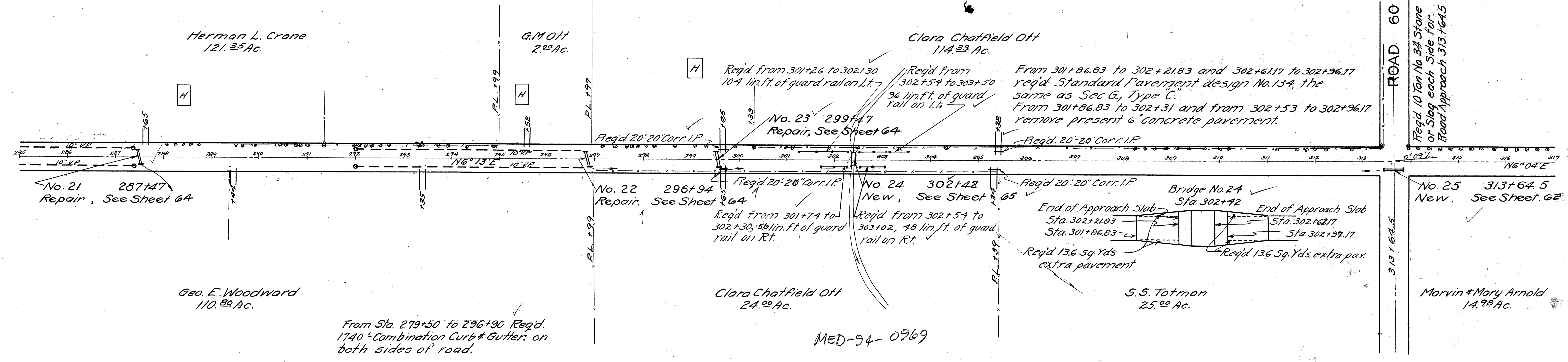


Excavation = 763.6 Cu. Yds.
Emb + 20% = 321.4 " "
Waste = 442.2 " "
Emb = 267.8 " "

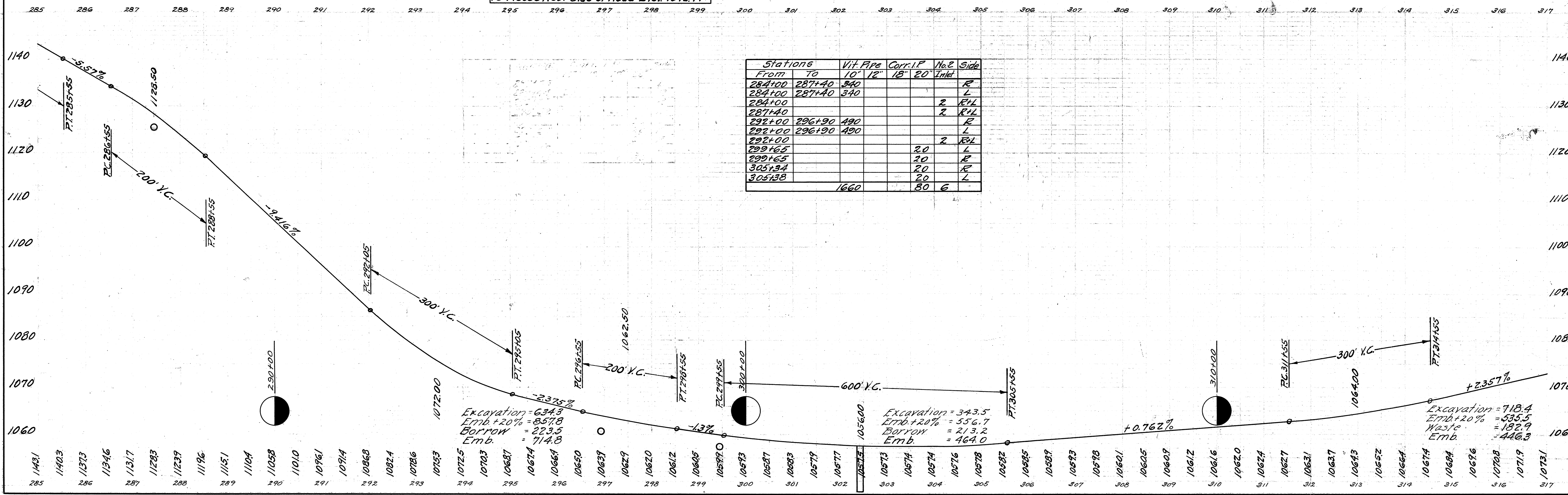
Excavation = 709.1 Cu. Yds.
Embankment + 20% = 333.5 " "
Waste = 375.6 " "
Emb. = 278.0 " "

Excavation = 715.8 Cu. Yds.
Emb + 20% = 355.4 " "
Waste = 360.4 " "
Emb. = 296.2 " "

Excavation = 412.8
Emb + 20% = 103.1
Borrow = 618.3
Emb. = 857.3



B.M. Sta. 296+53 N.E. Cor. Lower Step to House West Side of Road Elex. 1072.79



Stations	Vit. Pipe	Corr. I.P.	No. & Side
From To	10" 12" 18" 20"	Incl.	
284+00 287+40	340		R
284+00 287+40	340		L
287+40			2 R+L
287+40			2 R+L
292+00 296+90	490		R
292+00 296+90	490		L
292+00			2 R+L
299+65		20	L
299+65		20	R
305+34		20	R
305+38		20	L
	1660	80	G

Guy C. Cottingham
116.21 Ac.

Sineca Totman
105.52 Ac.

Lucy Totman
15.00 Ac.

Guy C. Cottingham
3.32 Ac.

Edith M. & Ward D. Briggs
183.00 Ac.

From 318+00 to 348+60 Regd. 3060' Comb.
Curb & Gutter each side.

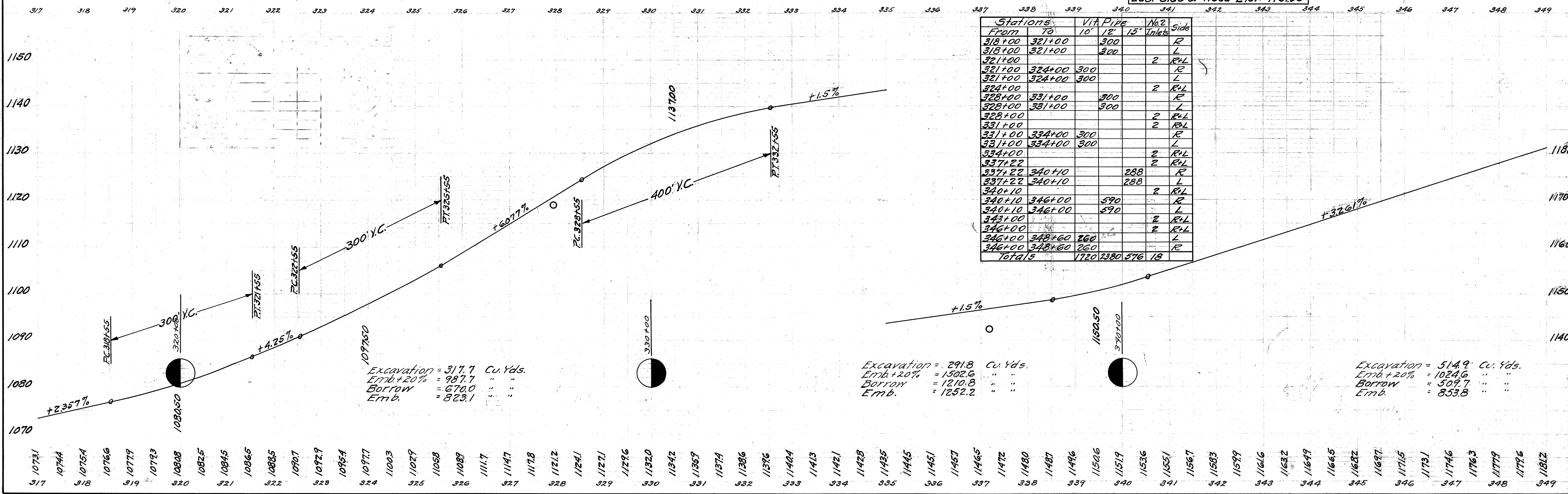
Reqd. from 336+60
to 338+04, 144 lin ft
of guard rail on Lt.

No. 26 327+93
Repair, See Sheet 64

No. 27 337+17
Repair, See Sheet 66

B.M. Sta. 341+80 Sp. in 15" Maple
East Side of Road Elev. 1161.03

Stations	Vit. Pipe	No. 2
From To	10' 12' 15'	Inlets Side
318+00 321+00	300	R
318+00 321+00	300	L
321+00		2 R+L
321+00 324+00	300	R
321+00 324+00	300	L
324+00		2 R+L
328+00 331+00	300	R
328+00 331+00	300	L
328+00		2 R+L
331+00		2 R+L
331+00 334+00	300	R
331+00 334+00	300	L
334+00		2 R+L
337+22		2 R+L
337+22 340+10	288	R
337+22 340+10	288	L
340+10		2 R+L
340+10 346+00	590	R
340+10 346+00	590	L
343+00		2 R+L
346+00		2 R+L
346+00 348+60	260	L
346+00 348+60	260	R
Totals	1720 2380 576	18



Excavation = 317.7 Cu. Yds.
Emb. + 20% = 987.7 " "
Borrow = 670.0 " "
Emb. = 823.1 " "

Excavation = 291.8 Cu. Yds.
Emb. + 20% = 1502.6 " "
Borrow = 1210.8 " "
Emb. = 1252.2 " "

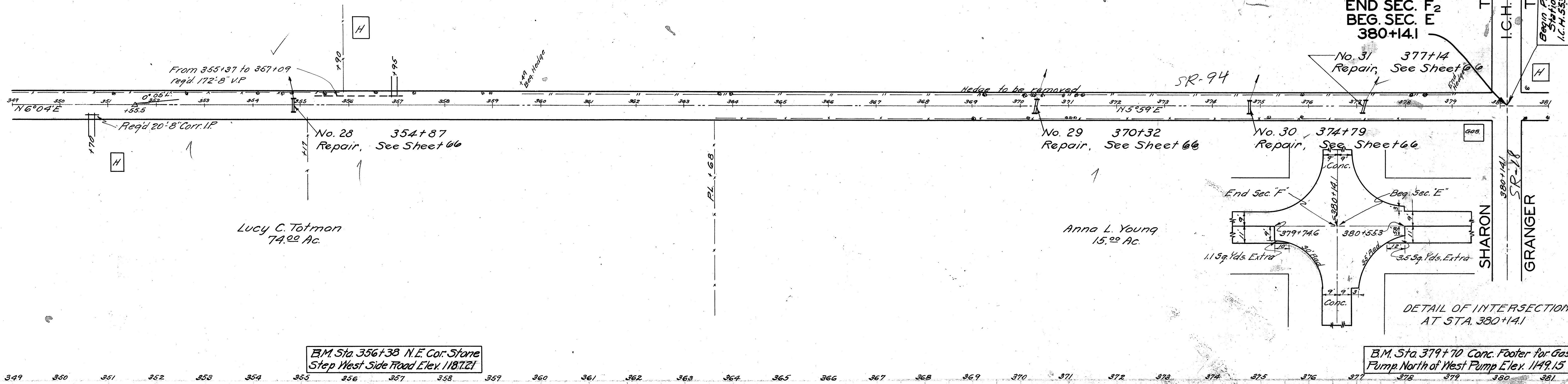
Excavation = 514.9 Cu. Yds.
Emb. + 20% = 1024.6 " "
Borrow = 509.7 " "
Emb. = 853.8 " "

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISC. YEAR
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S.H. (I.C.H.) 553 SEC. F₂ F₁ C
 MEDINA COUNTY

Lloyd S. & Donna L. Crane

END OF PROJECT
 END SEC. F₂
 BEG. SEC. E
 380+14.1



Lucy C. Totman
 74.00 Ac.

Anna L. Young
 15.00 Ac.

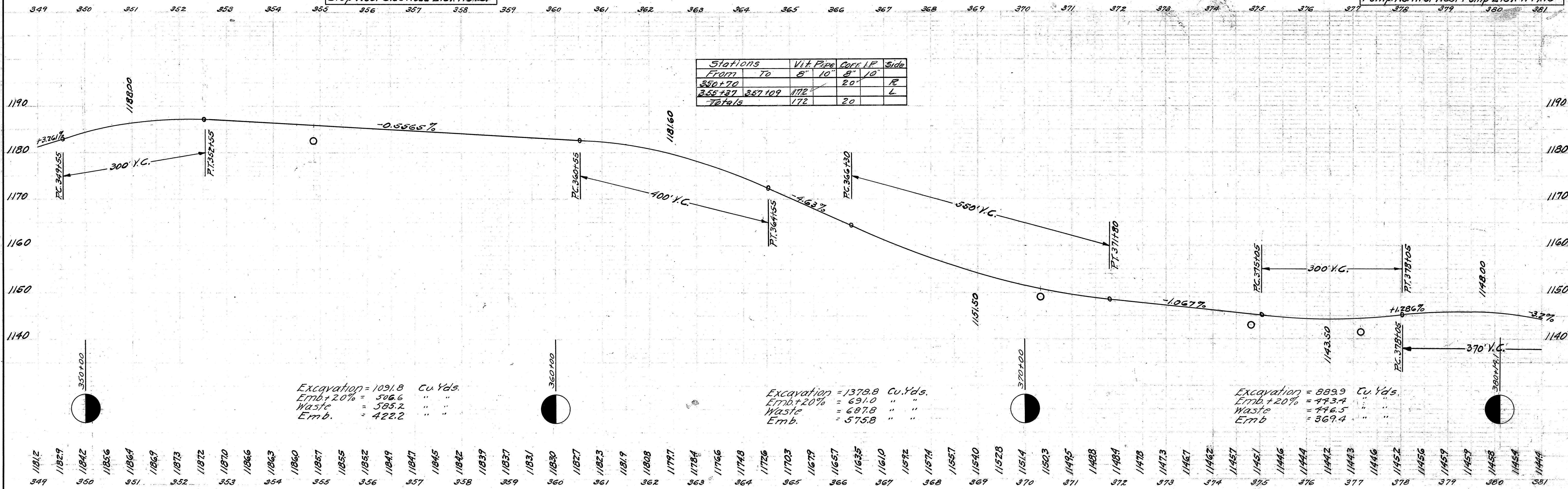
SHARON
 GRANGER

DETAIL OF INTERSECTION
 AT STA. 380+14.1

B.M. Sta. 356+38 N.E. Cor. Stone
 Step West Side Road Elev. 1187.21

B.M. Sta. 379+70 Conc. Footer for Gas
 Pump North of West Pump Elev. 1149.15

Stations	Vit. Pipe	Corr. LP	Side
From 70	8" 10" 20" 10"		
350+70		20"	R
355+37	172		L
Totals	172	20	



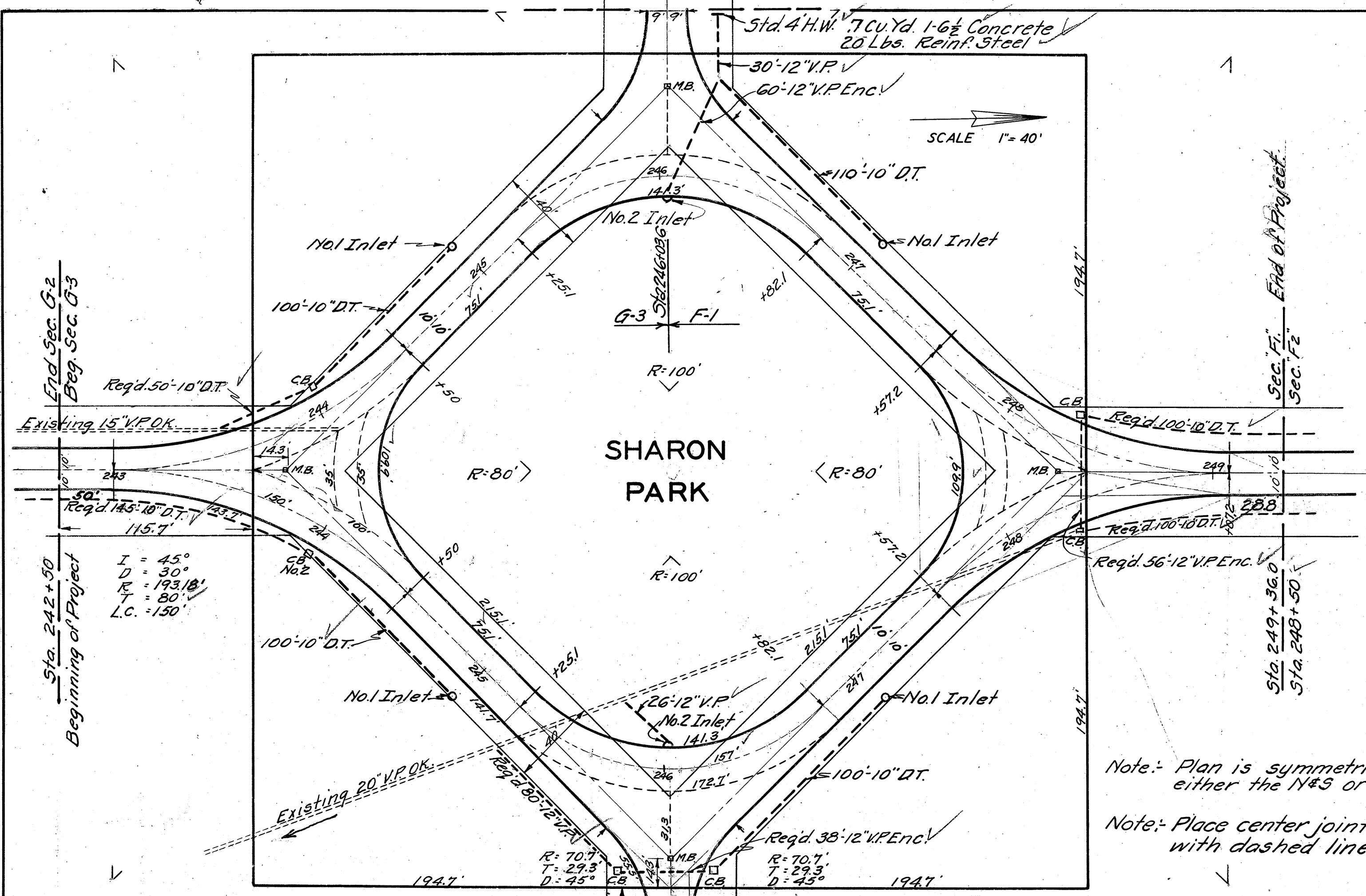
Excavation = 1091.8 Cu. Yds.
 Emb + 20% = 506.6 " "
 Waste = 585.2 " "
 Emb. = 422.2 " "

Excavation = 1378.8 Cu. Yds.
 Emb + 20% = 691.0 " "
 Waste = 687.8 " "
 Emb. = 575.8 " "

Excavation = 889.9 Cu. Yds.
 Emb + 20% = 473.4 " "
 Waste = 416.5 " "
 Emb. = 369.4 " "

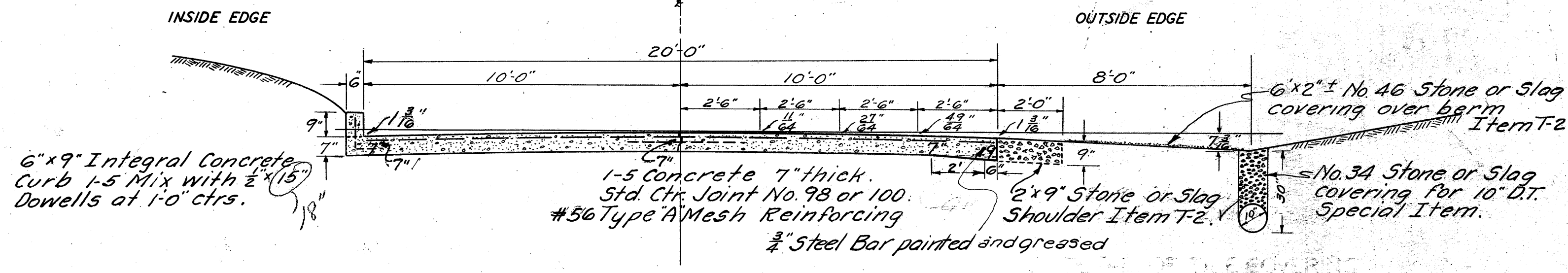
1181.2 1182.9 1184.2 1185.6 1186.4 1186.9 1187.3 1187.2 1187.0 1186.6 1186.3 1186.0 1185.7 1185.5 1185.2 1184.9 1184.1 1184.5 1184.2 1183.9 1183.7 1183.1 1183.0 1182.7 1182.3 1181.9 1180.8 1179.7 1178.4 1176.6 1174.8 1172.6 1170.3 1167.9 1165.7 1163.5 1161.0 1159.2 1157.4 1155.7 1154.0 1152.8 1151.4 1150.3 1149.5 1148.8 1148.4 1147.8 1147.3 1146.7 1146.2 1145.7 1145.1 1144.6 1144.4 1144.2 1144.3 1144.6 1145.2 1145.6 1145.9 1145.9 1145.8 1145.4 1144.9

MAINTAIN TRAFFIC
The Contractor shall maintain traffic on one side of the Highway while the other side is being built and shall provide adequate protection to the new pavement against traffic; also Flagmen and Watchmen to direct traffic during the entire course of construction.
All of same to be included in the unit price bid for "Erection and Maintenance of Lights, Signs, Barricades and Watchmen"

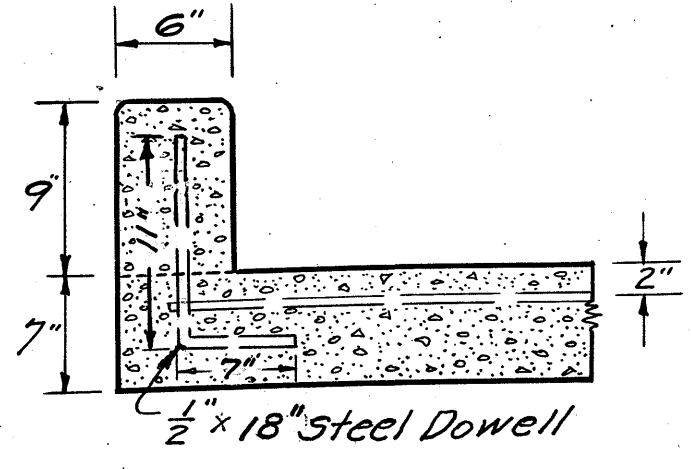


Note: Plan is symmetrical in respect to either the N-S or E-W axis.
Note: Place center joint as indicated with dashed lines, thus;

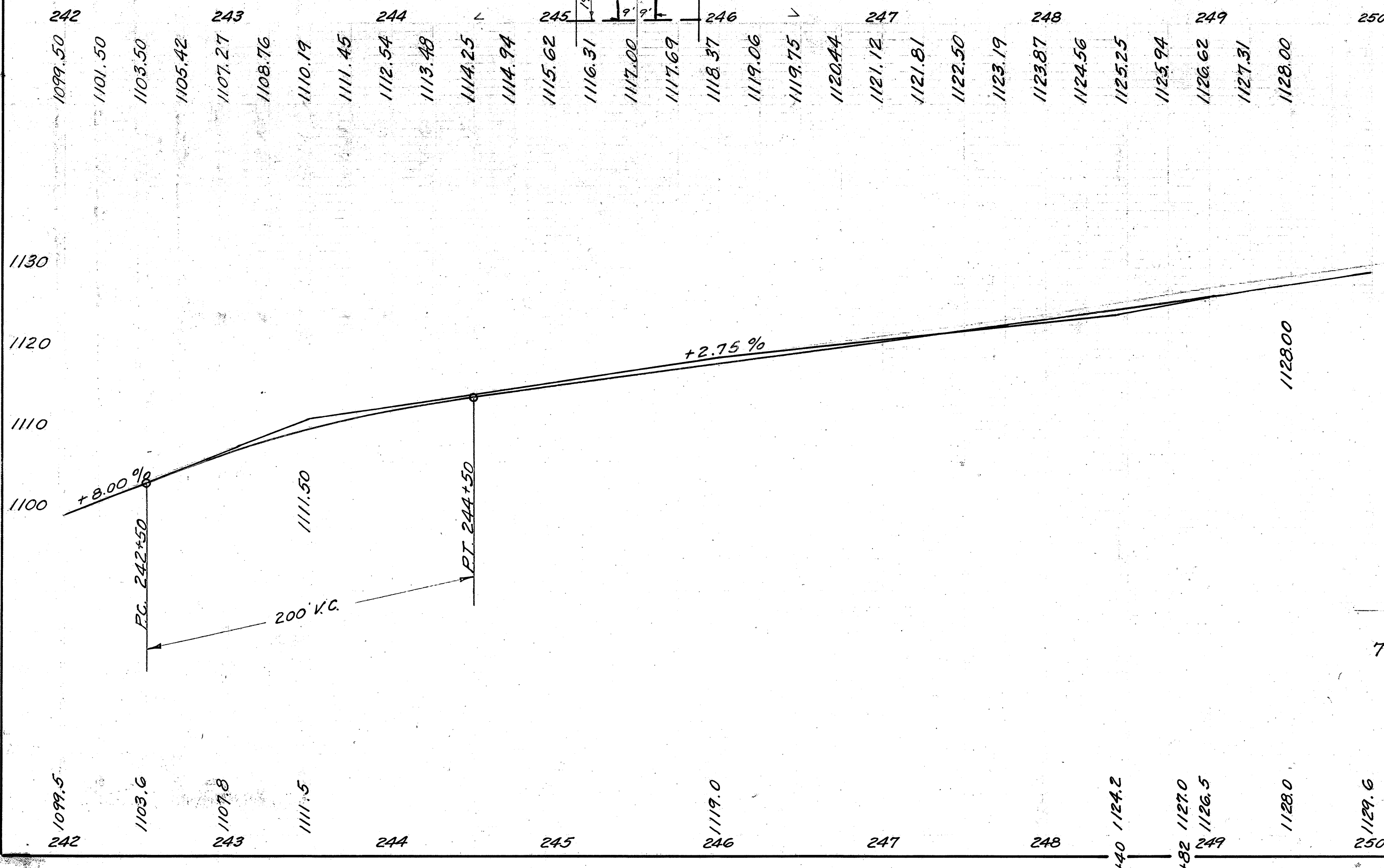
TYPICAL CROSS SECTION



DETAIL OF CURB ITEM I-6



No. 34 Stone or Slag Shoulders.
1521.2 Lin. Ft. Shoulders x 2' wide = 338.0 Sq. Yds.
338.0 x 0.5175 Tons of Stone per Sq. Yd. = 174.9 Tons Min.
338.0 x 0.4275 Tons of Slag per Sq. Yd. = 144.5 Tons. "
No. 46 Stone or Slag Berm Covering
1521.2 Lin. Ft. x 0.046 = 70.0 Tons.



SUMMARY OF PIPE

Stations	12" V.P. D.T.	10" I-8	8" I-6 1/2	Concrete Inlets	C.B. Reinf. No. 2 Steel	Side
242+50 244+00	145				1	East
244+00 245+00	100			1		East
245+30 245+80	80					East
245+80 246+18	38	4.1			2	East
246+18 247+00	100			1		East
245+80 246+00	26				1	East
248+40 249+36	100				1	East
248+40	56	60				Across
248+40 249+36	100				1	West
246+00 246+30	60	6.5		1		West
246+30	30		.7			20' West
246+30 247+00	110			1		West
243+50 244+00	50				1	West
244+00 245+00	100			1		West
Totals	290	805	166	.7	4 2 6 20	

SUPERELEVATION DATA

Inside Edge				Outside Edge				
Elev. of Edge	Add to # Grade	Product from Elev.	Width	Station #Grade	Width	Product from Elev.	Elev. of Edge	
1105.32		0.10	0.00	242+75 1105.42	10.00	0.10	1105.32	
1107.50	0.23	0.00	0.00	243+00 1107.27	10.00	0.10	1107.17	
1109.29	0.53	1.63	+25	1108.76	10.00	0.10	1108.66	
1111.35	1.16	6.59	+50	1110.19	10.00	0.10	1110.09	
1112.85	1.40	10.00	+75	1111.45	10.00	0.10	1111.35	
1113.94	1.40	10.00	+100	1112.54	10.00	0.10	1112.44	
1114.41	0.93	10.00	+25	1113.48	10.00	0.10	1113.48	
1114.71	0.46	10.00	+50	1114.25	10.00	0.10	1114.25	
1114.84	0.00	0.10	10.00	+75	1114.94	10.00	0.10	1114.84
1115.52	0.10	10.00	245+00 1115.62	10.00	0.10	0.00	1115.52	
1116.21	0.10	10.00	+25	1116.31	10.00	0.00	1116.74	
1116.90	0.10	10.00	+50	1117.00	10.00	0.93	1117.93	
1117.59	0.10	10.00	+75	1117.69	10.00	1.40	1119.09	
1118.27	0.10	10.00	246+00 1118.37	10.00	1.40	1119.77		
1118.96	0.10	10.00	+25	1119.06	10.00	1.40	1120.46	
1119.16	0.10	10.00	+50	1119.26	10.00	1.40	1120.66	
1119.65	0.10	10.00	+75	1119.75	10.00	1.06	1120.81	
1120.34	0.10	10.00	+25	1120.44	10.00	0.60	1121.04	
1120.53	0.10	10.00	+50	1120.63	10.00	0.46	1121.09	
1121.02	0.10	10.00	247+00 1121.12	10.00	0.13	1121.25		
1121.22	0.10	10.00	+071	1121.32	10.00	0.00	1121.22	
1121.71	0.10	10.00	+25	1121.81	10.00	0.10	1121.71	
1121.90	0.00	0.10	10.00	+322	1122.00	10.00	0.10	1121.90
1123.14	0.46	10.00	+572	1122.68	10.00	0.10	1122.58	
1124.32	0.93	10.00	+822	1123.39	10.00	0.10	1123.29	
1125.45	1.40	10.00	248+072 1124.05	10.00	0.10	1123.95		
1126.16	1.40	10.00	+322	1124.76	10.00	0.10	1124.66	
1126.61	1.16	6.59	+572	1125.45	10.00	0.10	1125.35	
1126.66	0.53	1.63	+822	1126.13	10.00	0.10	1126.03	
1127.05	0.23	0.00	249+072 1126.82	10.00	0.10	1126.72		
1127.40	0.10	0.00	+322	1127.50	10.00	0.10	1127.40	

ESTIMATED QUANTITIES

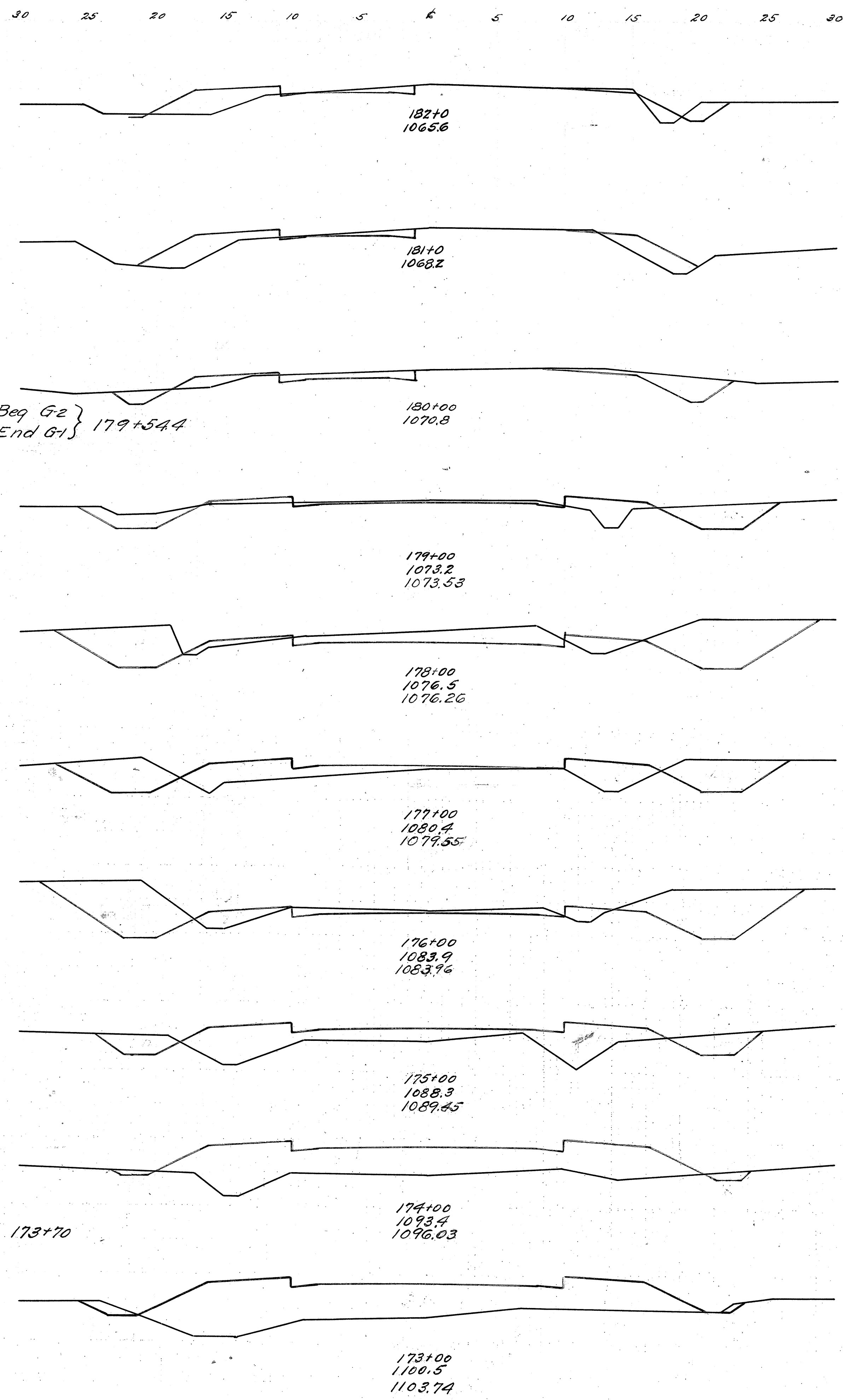
- No. 46 Stone or Slag for Berms 70.0 Tons ✓
- Excavation unclassified (estimated) 700.0 Cu. Yds. ✓
- 6" Concrete Pavement removed 1522.0 Sq. Yds. ✓
- Shoulders and Slopes dressed (oneside) 2324.0 Lin. Ft. ✓
- 2x9" No. 34 Stone or Slag Shoulders with No. 7 Screenings compacted in place. 338.0 Sq. Yds. ✓
- 6x9" Integral Concrete Curb 802.8 Lin. Ft. ✓
- 7x9" Reinforced Concrete Pavement 384.0 Sq. Yds. ✓
- Std. Center Joint No. 98 or 100 2348.0 Lin. Ft. ✓
- 12" Vitrified Sewer Pipe in place 290.0 Lin. Ft. ✓
- 10" Drain Tile in place covered with No. 34 stone 805.0 Lin. Ft. ✓
- 1-8 Concrete in place 16.6 Cu. Yds. ✓
- Std. No. 2 Catch Basins Complete 6 ✓
- Monument Boxes in place 4 ✓
- Std. No. 1 Inlets Complete 4 ✓
- Std. No. 2 Inlets Complete 2 ✓
- Reinforcing steel 20 Lbs. ✓
- 1-6 1/2 Concrete in place 0.7 Cu. Yds. ✓

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		34
			78

S.H. (I.C.H.) 553 SEC. F₁, F₂, G₂
 MEDINA COUNTY

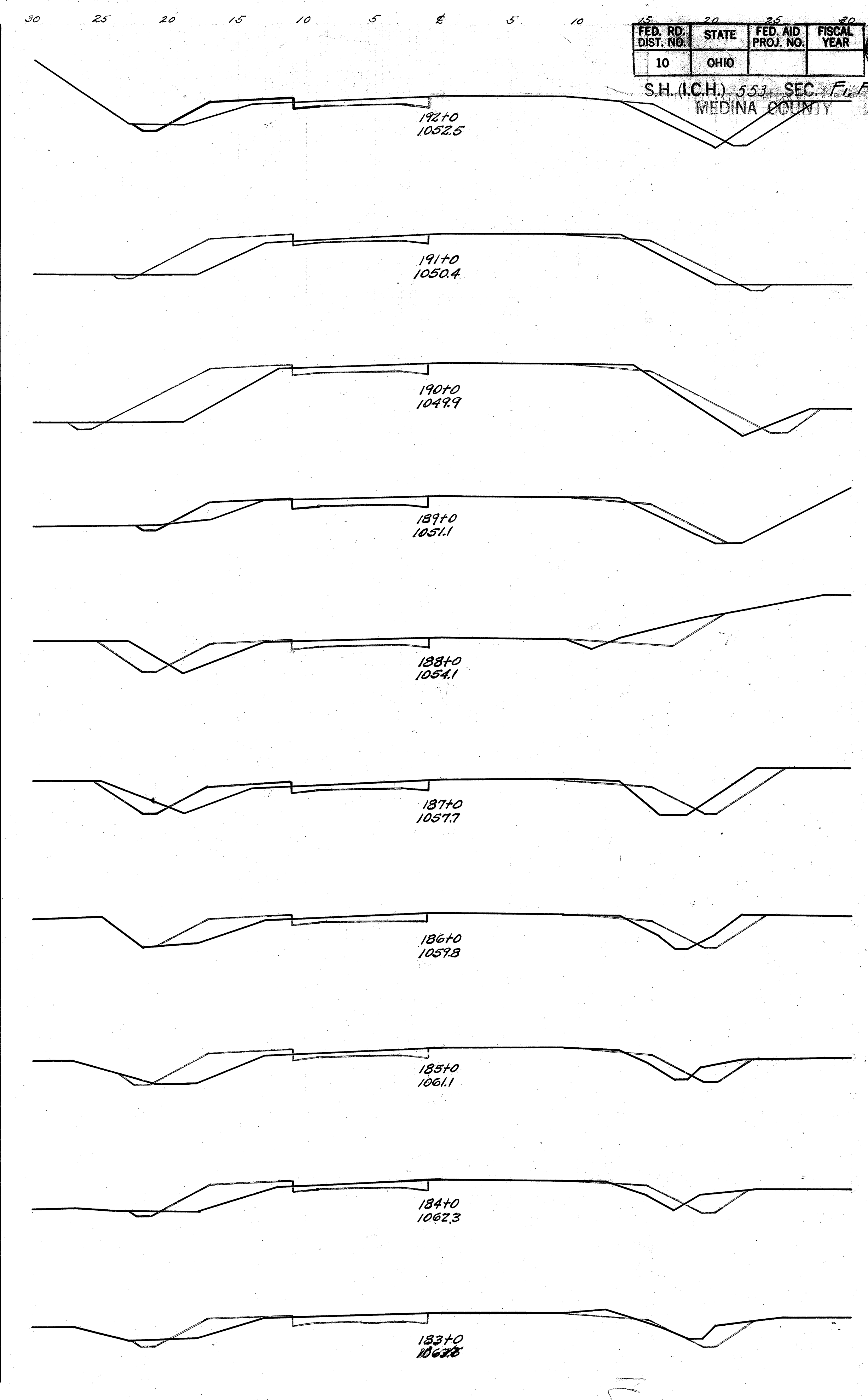
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
5 ⁵	14 ²		
		14 ⁸	57 ⁴
2 ²	17 ²		
		30 ⁶	36 ⁴
14 ²	2 ⁵		
		32 ⁹	97 ¹
		37 ⁵	116 ¹
24 ²	90 ²		
		163 ⁹	30 ⁶
64 ⁵	75 ⁵		
		174 ¹	69 ⁴
28 ⁵	31 ⁰		
		171 ³	70 ⁴
63 ²	80 ²		
		140 ⁷	93 ⁵
13 ²	42 ⁵		
		30 ⁶	226 ⁹
3 ⁵	80 ²		
		36 ⁶	98 ⁸
		84 ¹	230 ¹
3 ²	97 ⁵		
		16 ⁴	182 ²

EXCAV 7217 Cu Yds
 EMB+20% 7212 "



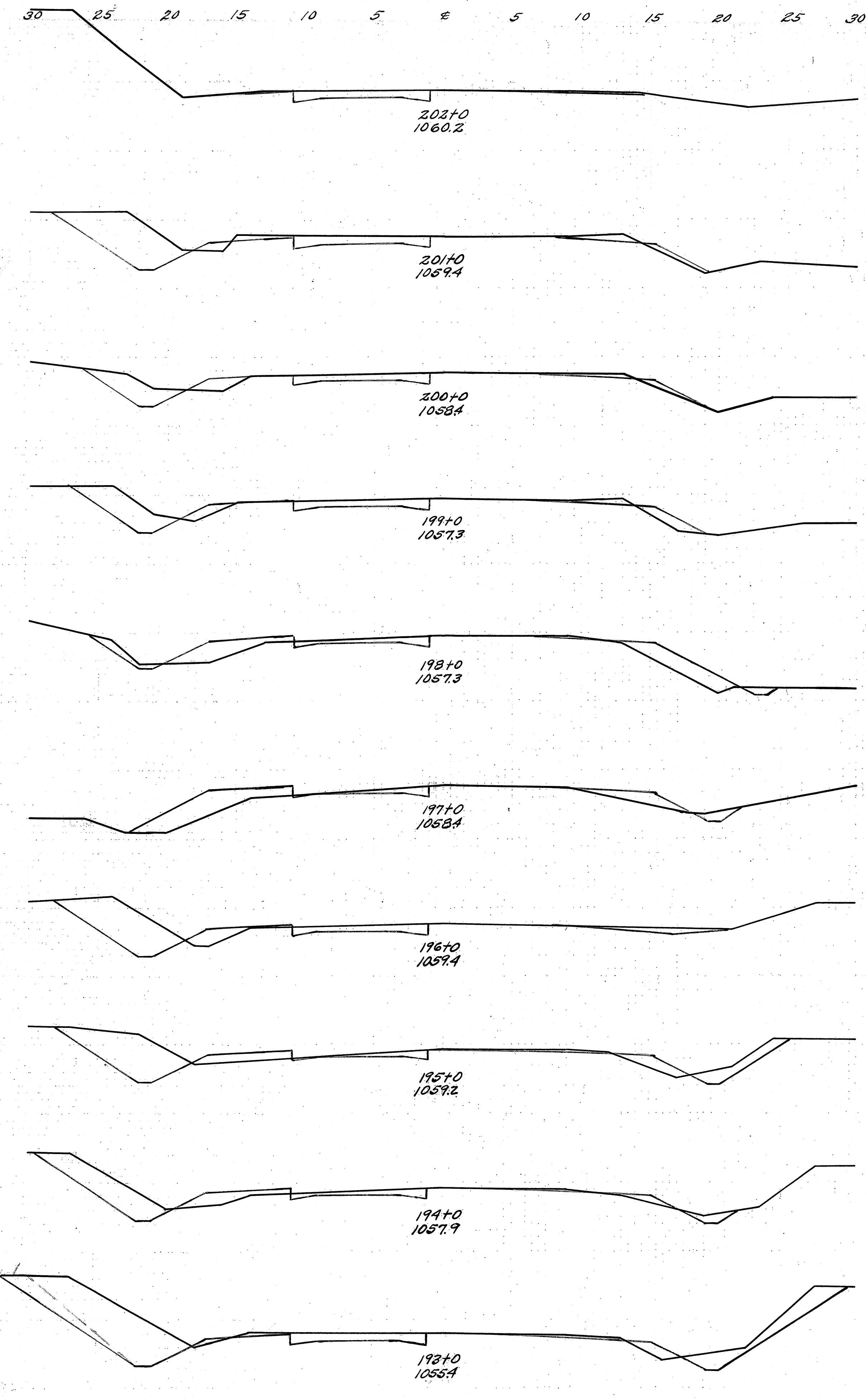
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
11 ²	10 ²		
		25 ⁹	52 ²
3 ²	18 ²		
		21 ³	87 ⁰
		29 ²	
		25 ²	66 ²
5 ²	7 ²		
		40 ⁷	26 ⁸
17 ²	7 ³		
		60 ²	34 ³
15 ³	11 ⁰		
		44 ¹	40 ⁷
8 ⁵	11 ⁰		
		29 ⁶	41 ⁷
7 ⁵	11 ⁵		
		26 ⁸	43 ⁵
7 ²	12 ⁰		
		33 ³	29 ⁶
11 ²	4 ⁰		
		30 ⁶	33 ³

EXCAV 368.9 Cu Yds
 EMB+20% 305.8 "



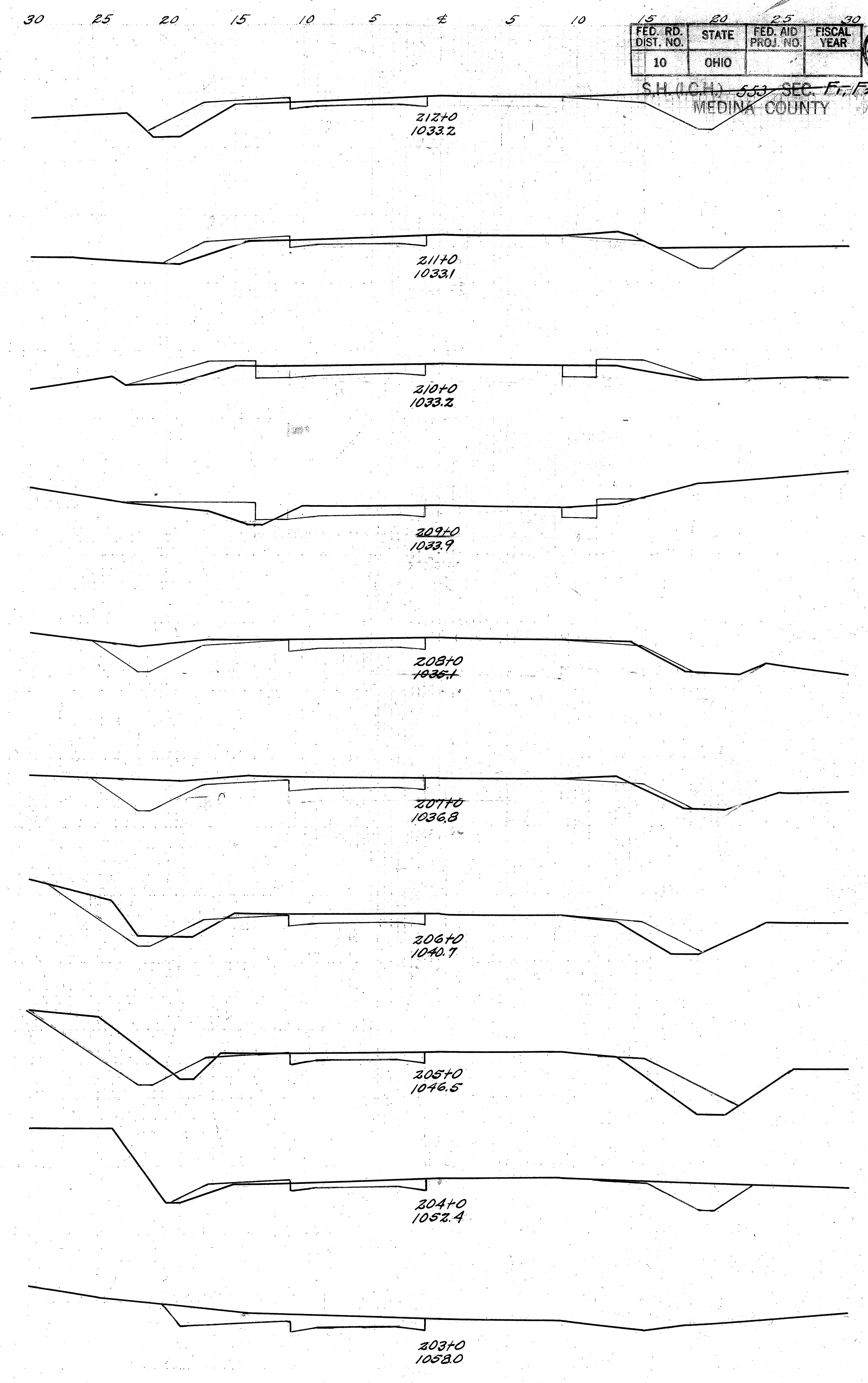
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
5 ⁰	0 ⁰		
		7 ⁷	4 ⁶
31 ⁰	2 ⁵		
		81 ⁵	11 ¹
13 ⁰	3 ⁵		
		52 ²	13 ³
15 ⁵	4 ⁰		
		41 ⁷	35 ²
7 ⁰	15 ⁰		
		18 ⁵	53 ⁶
3 ⁰	15 ⁰		
		53 ⁶	32 ¹
27 ⁰	2 ⁵		
		100 ⁰	17 ⁶
27 ⁰	7 ⁰		
		87 ⁰	21 ³
20 ⁰	4 ⁵		
		135 ²	12 ⁰
53 ²	2 ⁰		
		118 ⁵	23 ⁴

Excru Emb+20% 421.1
656.5 Cu Yds



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
24 ⁰	10 ⁰		
		65 ⁷	28 ⁷
11 ⁵	5 ⁵		
		44 ⁴	34 ³
12 ⁵	13 ⁰		
		43 ⁵	39 ⁸
11 ⁸	8 ⁵		
		61 ⁷	15 ⁷
22 ⁰	0 ⁰		
		87 ⁰	0 ⁰
25 ⁰	0 ⁰		
		85 ²	13 ⁰
21 ⁰	7 ⁵		
		88 ⁰	41 ⁷
26 ⁵	15 ⁰		
		77 ³	33 ³
12 ⁰	3 ⁰		
		57 ⁶	2 ⁵
17 ⁵	0 ⁰		
		41 ⁷	0 ⁰

Excru Emb+20% 194.2
630.6 Cu Yds



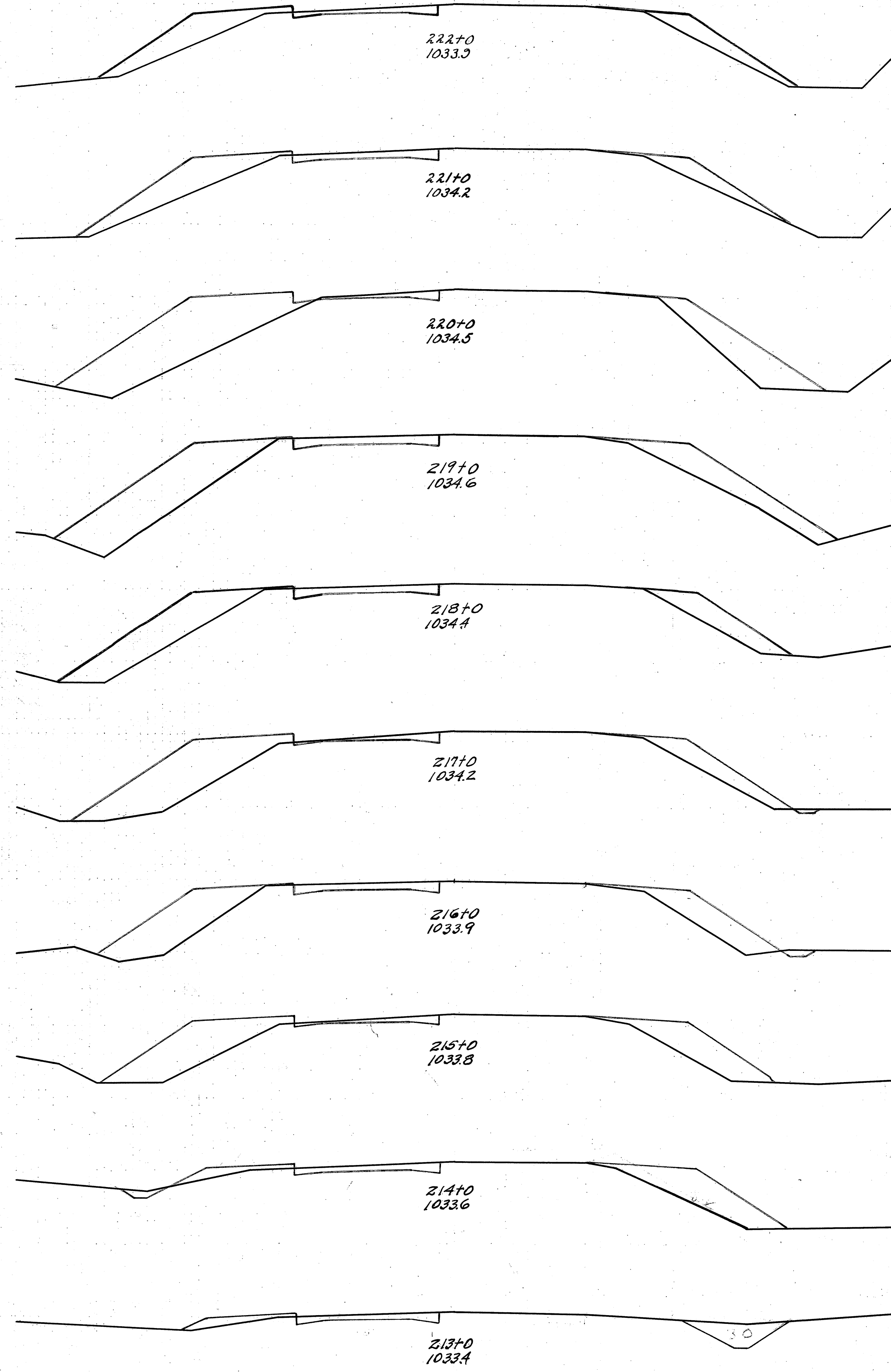
30 25 20 15 10 5 ± 5 10 15 20 25 30

30 25 20 15 10 5 ± 5 10 15 20 25 30

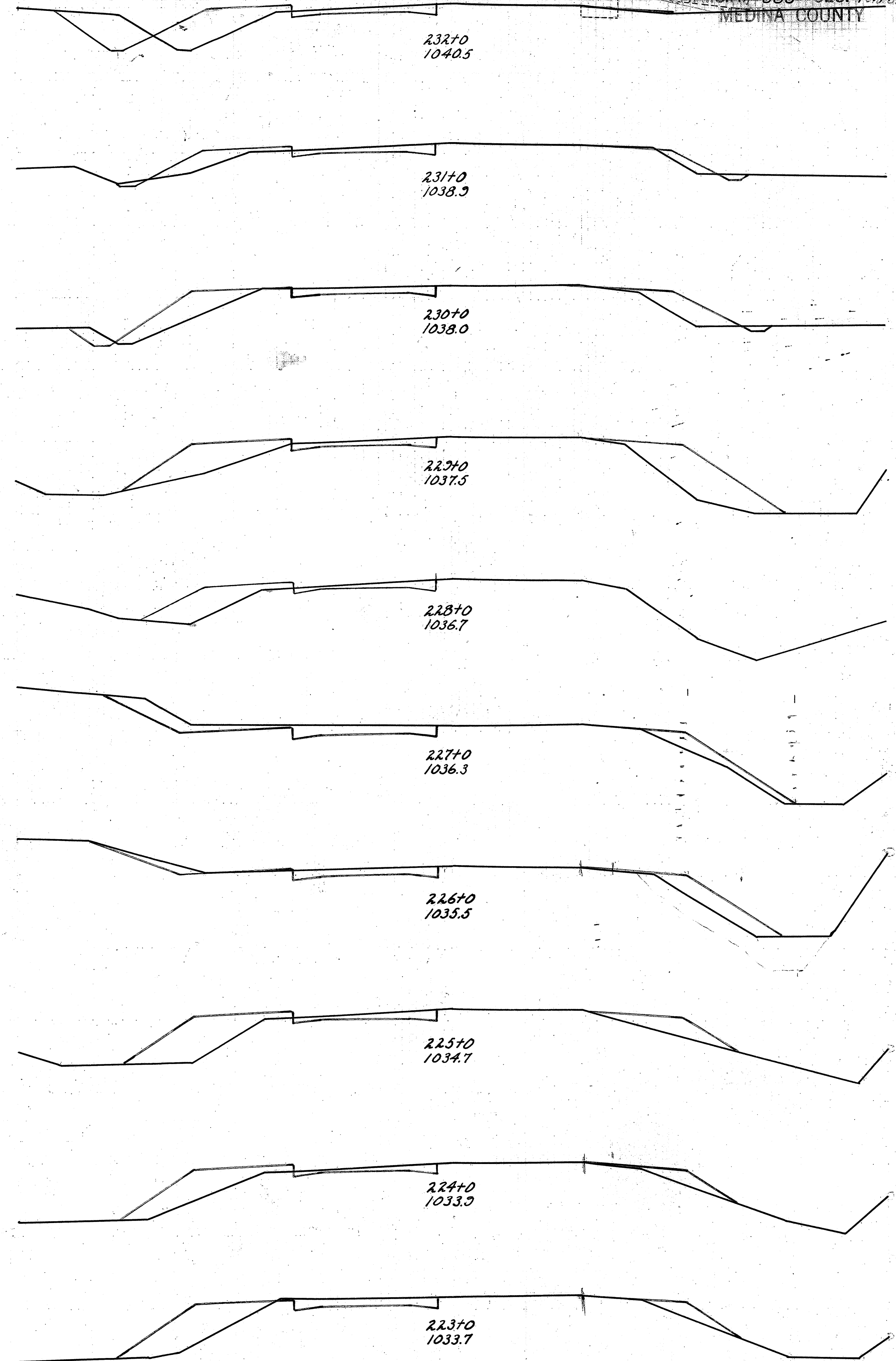
FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
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S.H. (I.C.H.) 553 SEC. F. F. G. MEDINA COUNTY

End Area		Cu. Yds.	
Out	Fill	Out	Fill
7 ⁰	23 ⁰		
		15 ⁷	70 ⁷
7 ⁵	15 ⁰		
		12 ⁰	149 ¹
2 ⁰	65 ⁰		
		13 ⁹	226 ⁹
5 ⁵	57 ⁰		
		19 ⁷	170 ⁷
5 ⁰	35 ⁰		
		13 ⁰	143 ⁵
2 ⁰	72 ⁵		
		14 ⁸	148 ¹
6 ⁰	37 ⁵		
		15 ⁷	173 ⁵
2 ⁵	70 ⁰		
		17 ⁸	118 ⁵
5 ⁵	27 ⁰		
		32 ¹	51 ⁹
12 ⁰	4 ⁰		
		66 ⁷	25 ⁹



End Area		Cu. Yds.	
Out	Fill	Out	Fill
17 ⁵	13 ⁵		
		35 ²	38 ³
5 ⁰	8 ⁰		
		24 ¹	50 ⁰
8 ⁰	19 ⁰		
		23 ¹	100 ⁰
4 ⁵	35 ⁰		
		15 ⁷	85 ⁸
4 ⁰	11 ⁰		
		37 ³	31 ⁵
14 ⁵	6 ⁰		
		39 ⁸	31 ⁵
7 ⁰	11 ⁰		
		19 ¹	67 ⁸
3 ⁵	27 ⁰		
		12 ⁰	74 ¹
3 ⁰	16 ⁰		
		15 ⁷	69 ¹
5 ⁵	21 ⁵		
		17 ⁶	82 ⁷



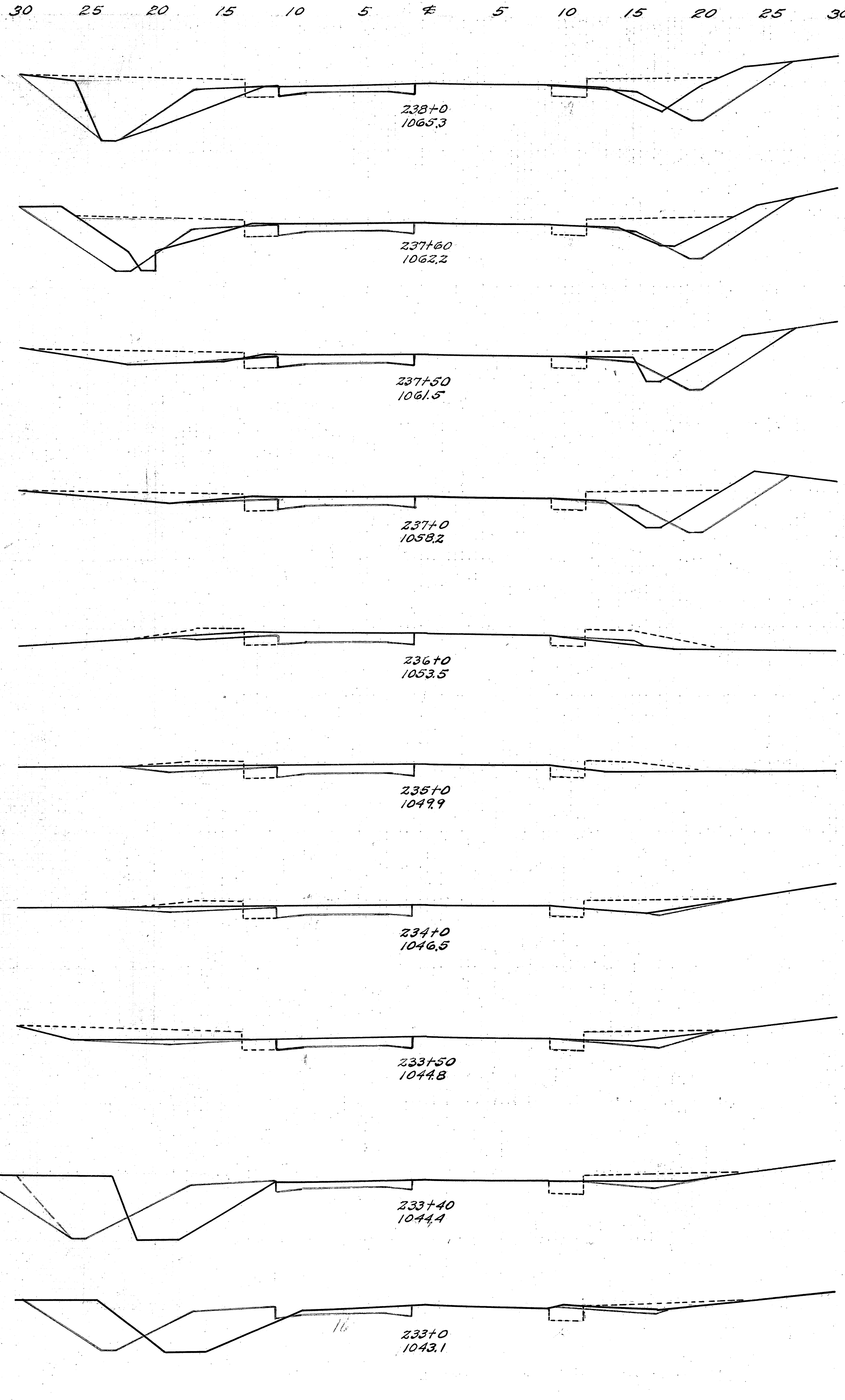
Excav Emb 20% Cu Yds 1310.1

Excav Emb 20% Cu Yds 1310.1

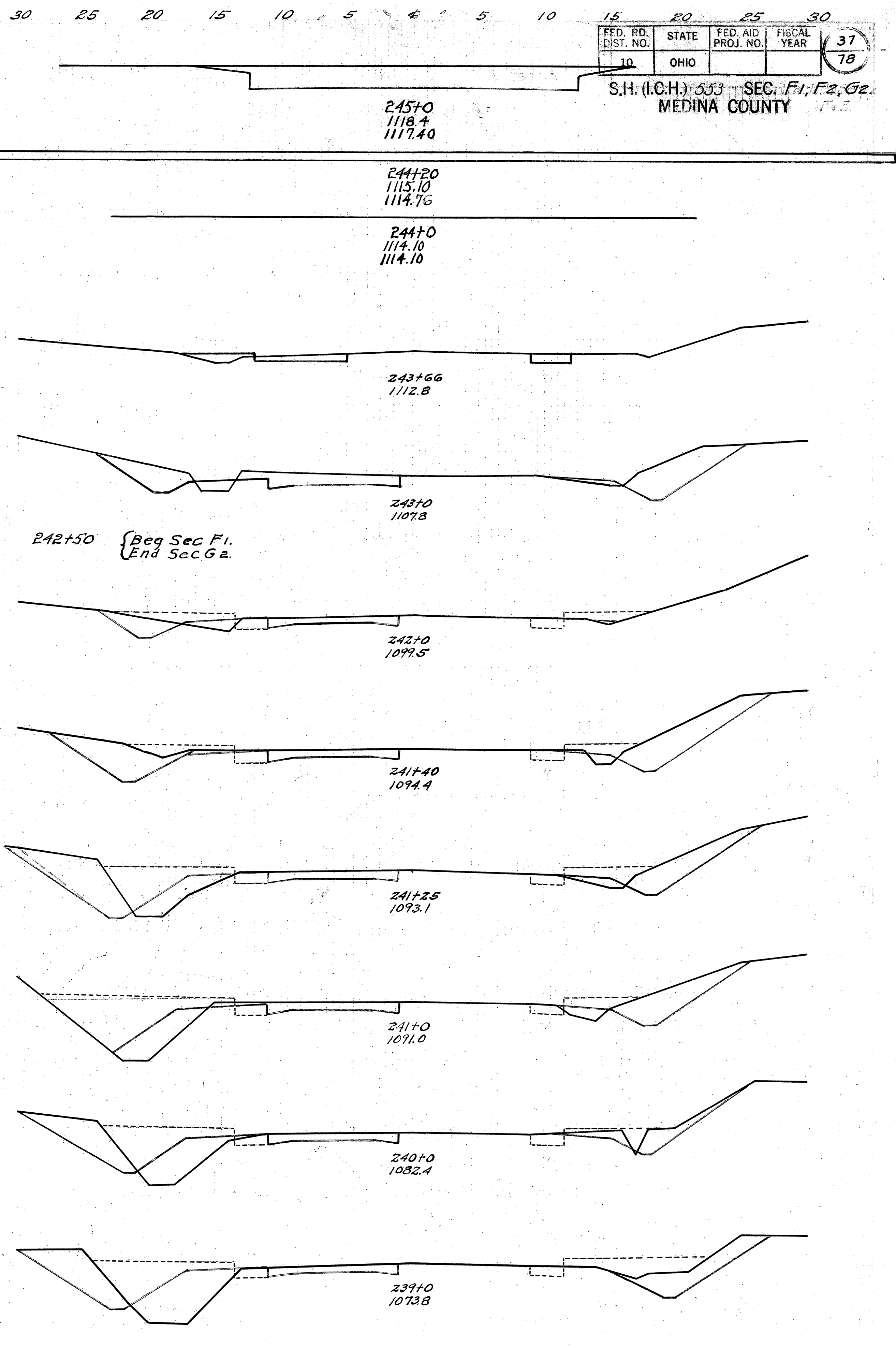
±

±

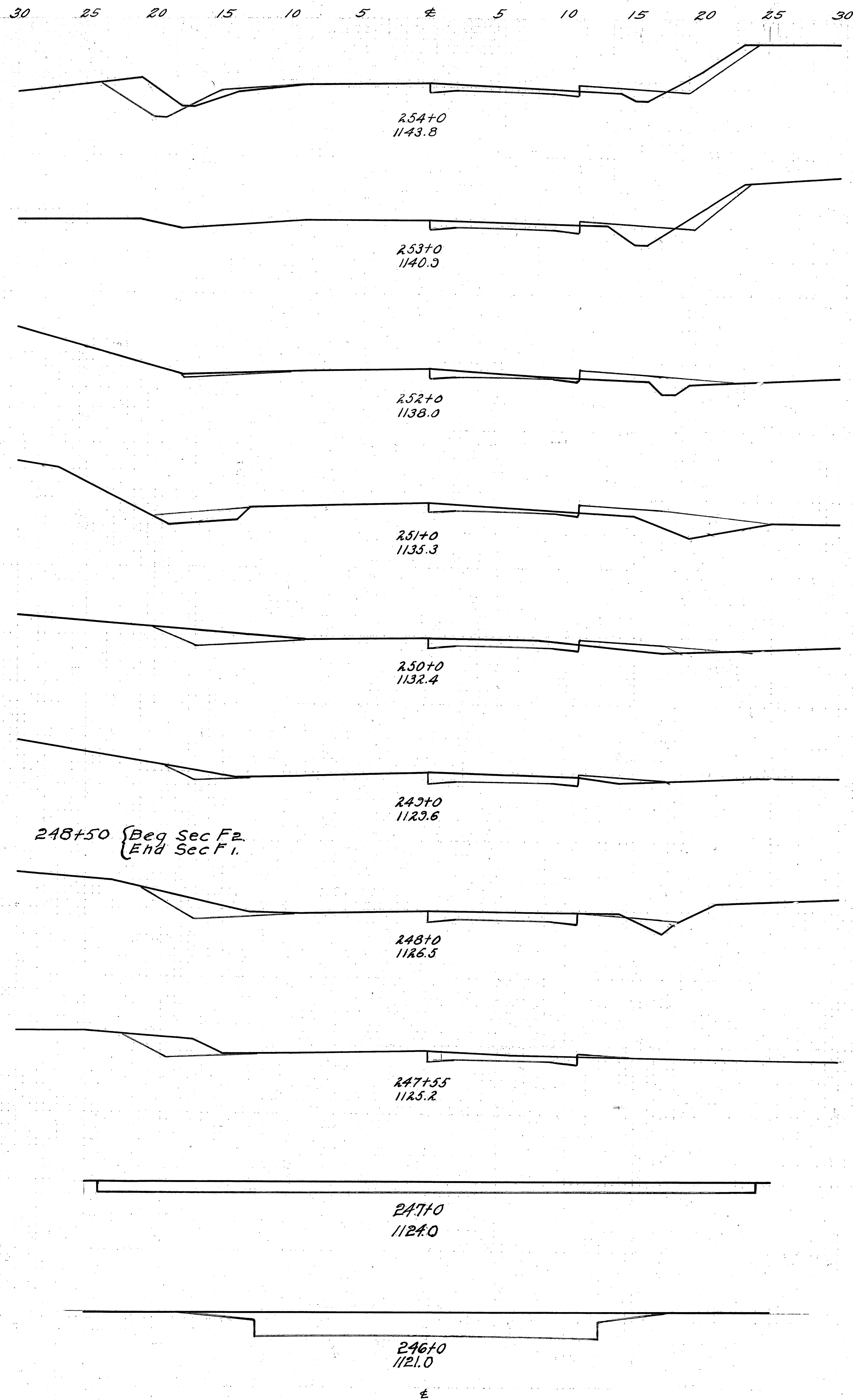
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
29 ⁰	0 ⁰		
9 ²	30 ²		
		111	22
		144	622
31 ⁰	3 ⁰		
10 ⁰	34 ⁰		
		92	74
		38	102
15 ⁰	1 ⁰		
10 ⁰	21 ⁰		
		72	4
		20	42
20 ⁰	3 ⁰		
12 ⁰	26 ⁰		
		53	4
		444	63
10 ⁰	1 ⁰		
12 ⁰	9 ⁵		
		7	9
		435	30
10 ⁰	0 ⁰		
11 ⁰	7 ⁰		
		41	0
		444	30
12 ⁰	0 ⁰		
12 ⁰	9 ⁵		
		22	0
		217	25
11 ⁰	0 ⁰		
11 ⁰	18 ⁰		
		9	4
		8	84
37 ⁰	22 ⁵		
32 ⁵	27 ⁵		
		7	5
		43	31
		418	37
28 ⁰	20 ⁰		
24 ⁰	22 ⁵		
		7	4
		66	161
		76	72



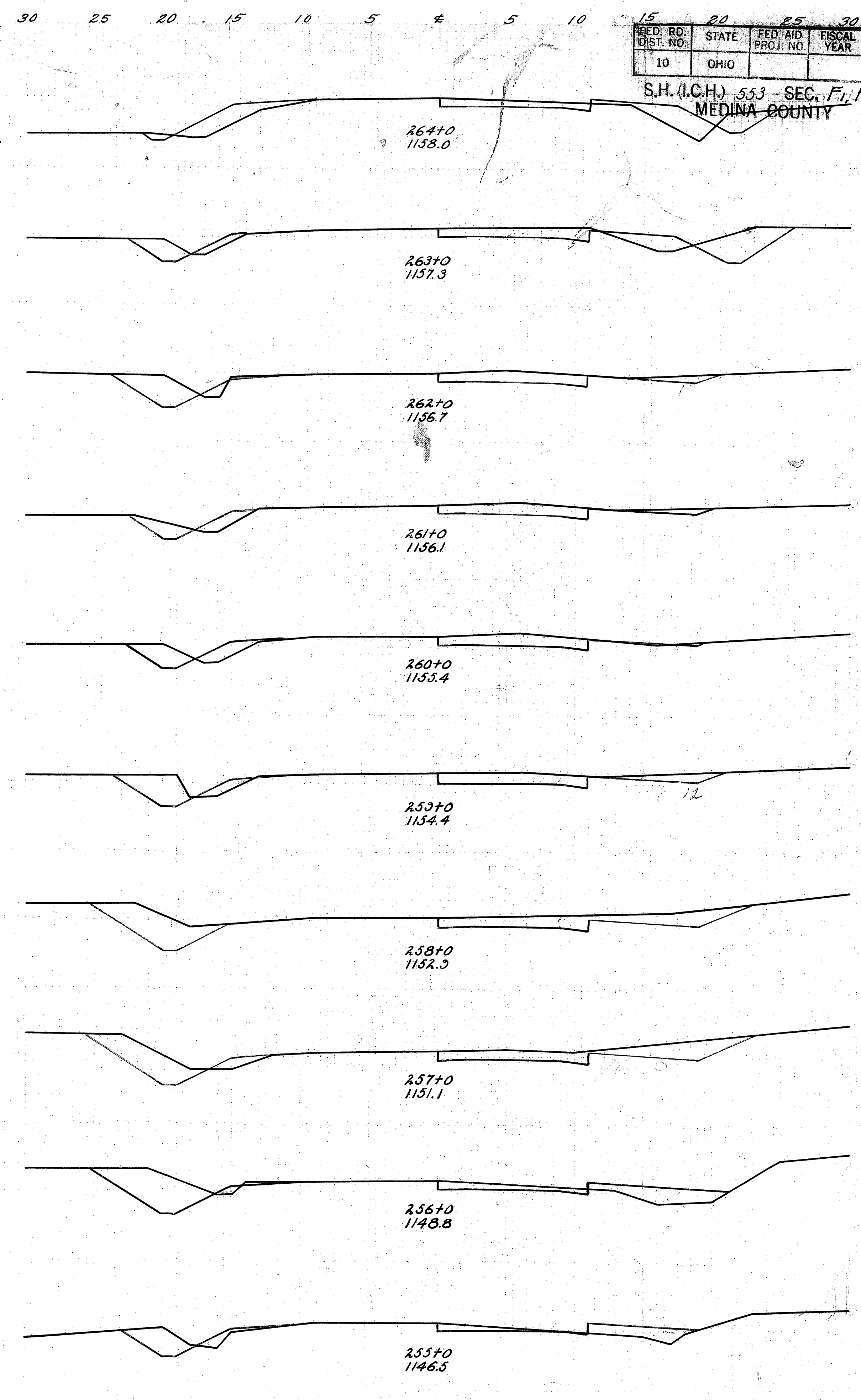
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
49 ⁰	0 ⁰		
		146	0
50 ⁰	0 ⁰		
		18	0
0 ⁰	0 ⁰		
		13	5
7 ⁰	3 ⁰		
		75	9
34 ⁰	2 ⁰		
		41	97
		41	32
		41	32
		41	97
11 ⁰	2 ⁰		
10 ⁰	8 ⁵		
		6	4
		244	20
45 ⁰	1 ⁰		
11 ⁰	10 ⁰		
		2	3
		7	11
40 ⁰	10 ⁰		
13 ⁰	31 ⁰		
		28	34
		12	34
22 ⁰	13 ⁰		
13 ⁰	42 ⁵		
		4	4
		94	48
		454	136
29 ⁰	13 ⁰		
11 ⁰	30 ⁵		
		7	4
		115	57
		37	141
33 ⁰	18 ⁰		
8 ⁵	46 ⁰		
		2	0
		115	50
		33	177



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
17°	5°		
		47 ²	19 ⁴
8°	5°		
		32 ⁴	18 ⁵
		27 ⁸	25 ⁸
9°	5°		
6°	8°		
		44 ¹	27 ⁴
		21 ³	51 ⁹
15°	10°		
5°	19°		
		61 ¹	23 ¹
		37 ⁰	47 ²
18°	2°		
15°	6°		
		67 ⁴	8 ²
		46 ³	14 ⁸
18°	2°		
10°	2°		
		23 ²	4 ²
		47 ²	4 ²
		47 ²	4 ¹
		23 ¹	4 ¹
32°	2°		
15°	2°		
		36 ²	2 ¹
11°	0°		
		5 ³	0 ⁰
		53 ⁰	0 ⁰
41°	0°		
		2 ¹	166 ⁰
49°	0°		
		5 ¹	181 ⁰



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
9°	17°		
		57 ⁴	42 ⁵
22°	6°		
		75 ²	13 ²
18°	1°		
		58 ³	7 ⁴
13°	3°		
		47 ²	12 ²
12°	3°		
		61 ⁴	12 ²
20°	3°		
		99 ¹	5 ⁴
33°	0°		
		116 ²	4 ⁴
30°	2°		
		92 ⁴	22 ²
20°	9°		
		53 ²	34 ³
9°	9°		
		48 ¹	26 ⁸



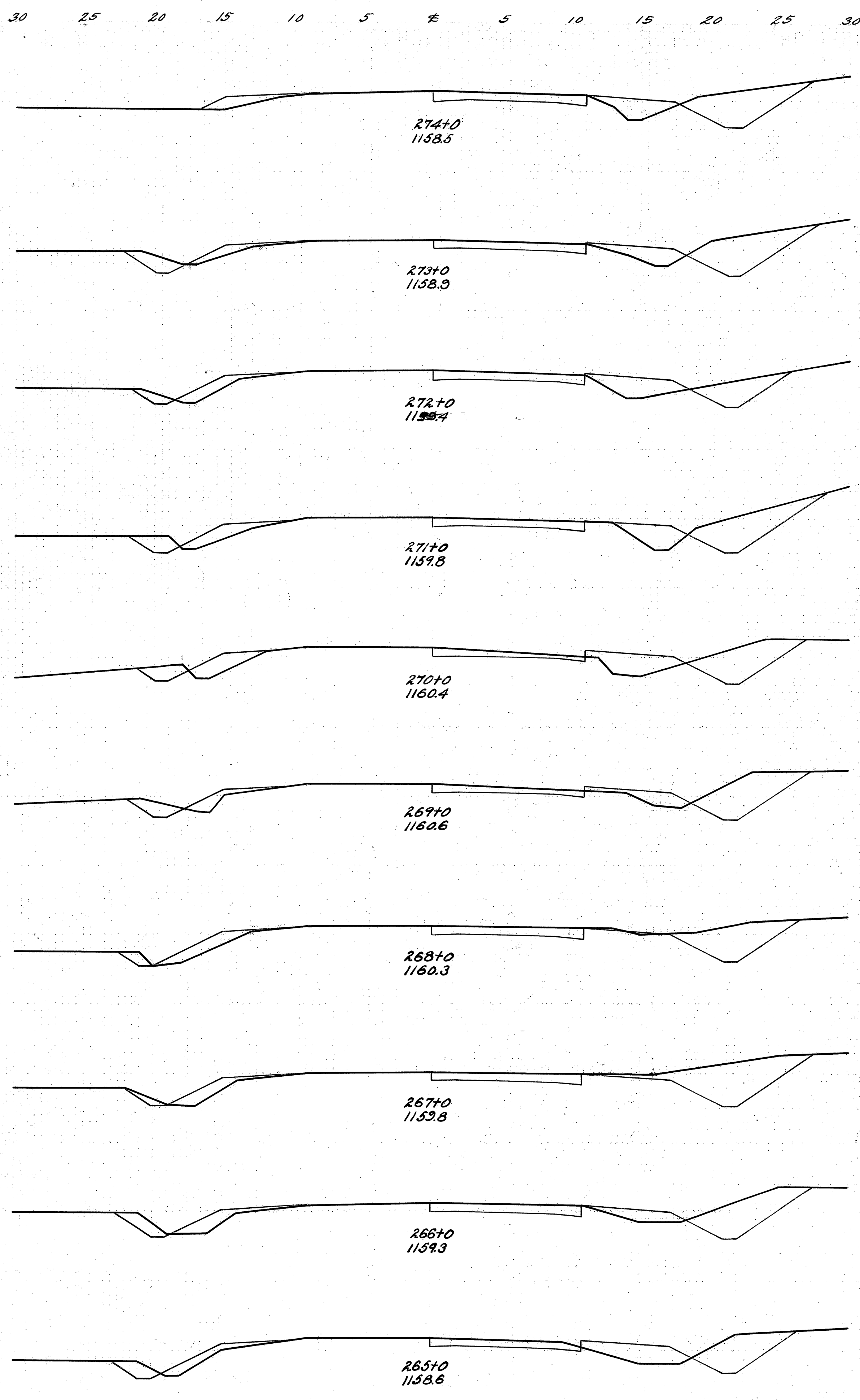
FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
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S.H. (I.C.H.) 553 SEC. F₁, F₂, G₂
MEDINA COUNTY

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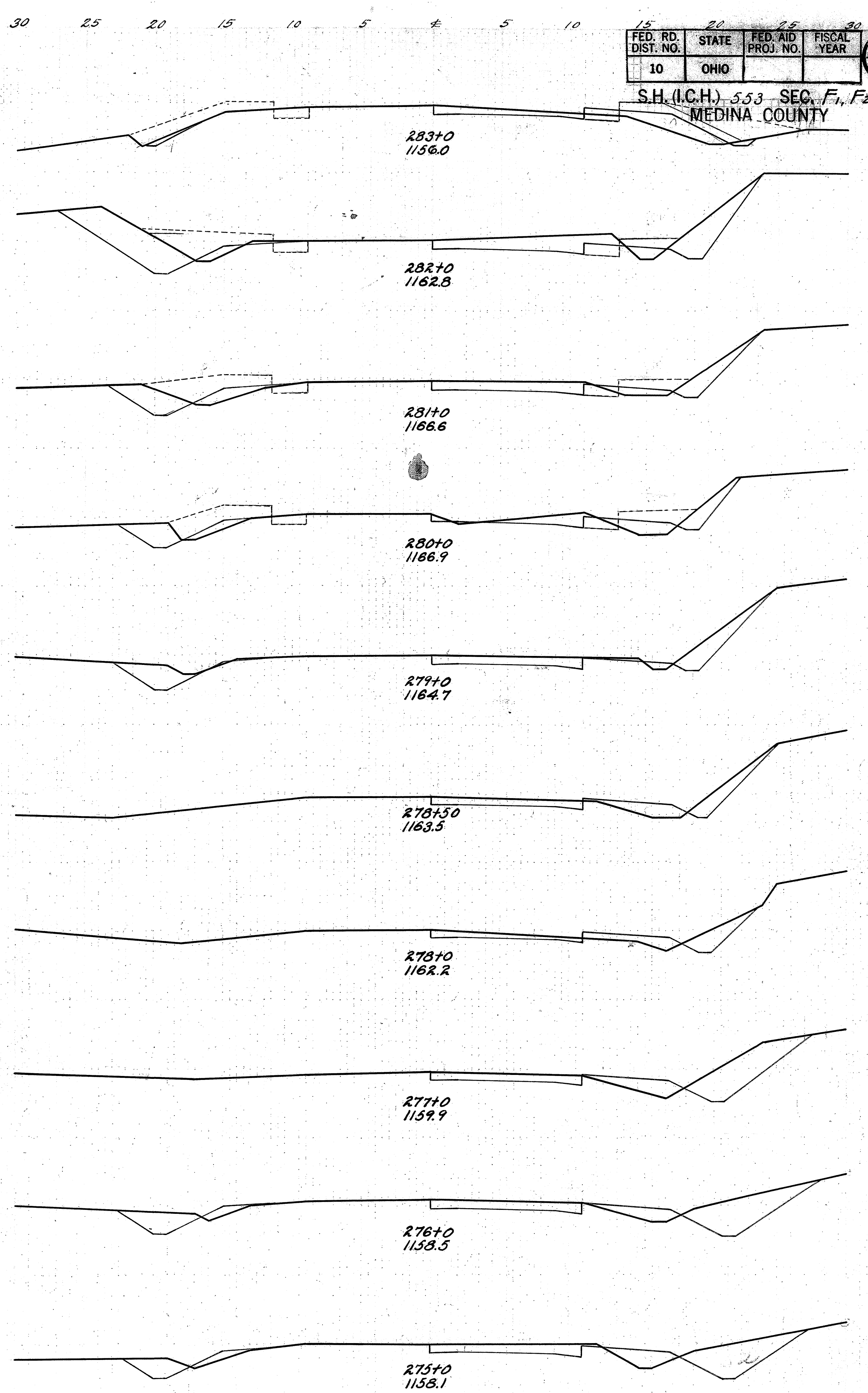
End Area Cu. Yds.		Cu. Yds.	
Cut	Fill	Cut	Fill
19 ⁵	6 ⁰		
		81 ⁵	29 ⁶
24 ⁵	10 ⁰		
		72 ²	41 ⁷
14 ⁵	12 ⁵		
		70 ⁴	43 ⁵
23 ⁵	11 ⁰		
		79 ⁶	43 ⁵
19 ⁵	12 ⁵		
		75 ²	38 ⁰
21 ⁵	8 ⁰		
		80 ⁶	24 ⁴
22 ⁰	5 ⁰		
		93 ⁵	16 ⁷
26 ⁵	4 ⁰		
		94 ⁴	25 ⁰
22 ⁵	10 ⁰		
		75 ⁰	42 ⁶
18 ⁵	13 ⁰		
		50 ⁰	55 ⁶

Excav 709.1 Cuyds
 Emb+208.333.5 "



End Area Cu. Yds.		Cu. Yds.	
Cut	Fill	Cut	Fill
5 ⁵	7 ⁵		
85 ⁰	28 ⁰		
		81 ⁵	29 ⁶
		47 ²	84 ²
38 ⁵	3 ⁵		
17 ⁰	17 ⁵		
		4	4
		107 ⁷	16 ⁷
		54 ⁰	65 ⁷
19 ⁵	5 ⁵		
12 ⁵	18 ⁰		
		68 ²	24 ⁴
		38 ²	67 ⁴
13 ⁰	7 ⁵		
85 ⁰	19 ⁵		
		61 ⁷	15 ⁷
		52 ⁰	38 ⁰
20 ⁰	1 ⁰		
		26 ²	5 ⁴
9 ⁰	5 ⁰		
		16 ⁷	9 ²
9 ⁰	5 ⁰		
		55 ⁰	18 ⁰
20 ⁰	5 ⁰		
		88 ⁰	20 ⁴
26 ⁰	6 ⁰		
		92 ⁶	23 ⁴
23 ⁰	6 ⁵		
		79 ⁵	23 ⁴

Excav 715.8 Cuyds
 Emb+208.352.4 "

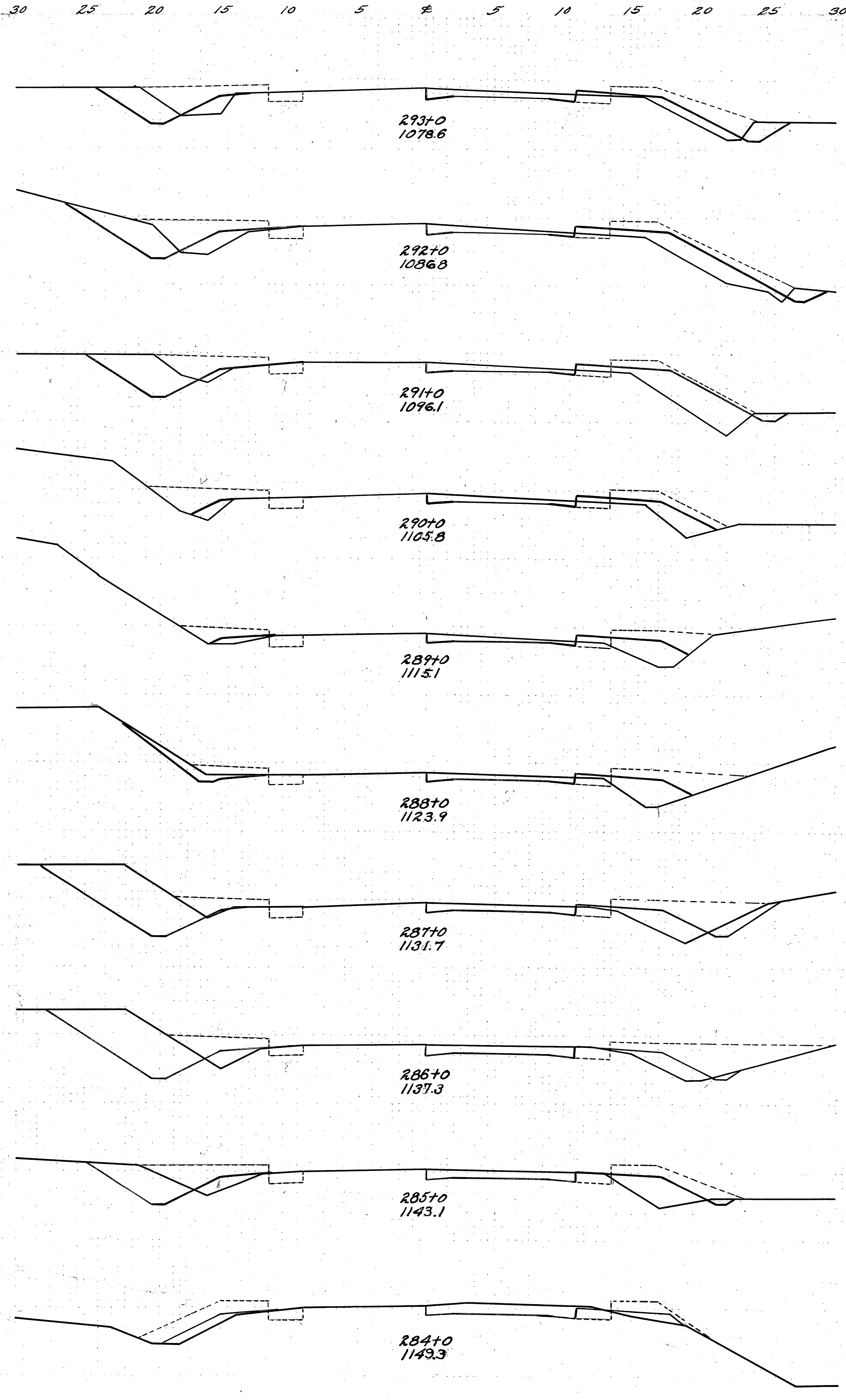


FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		78

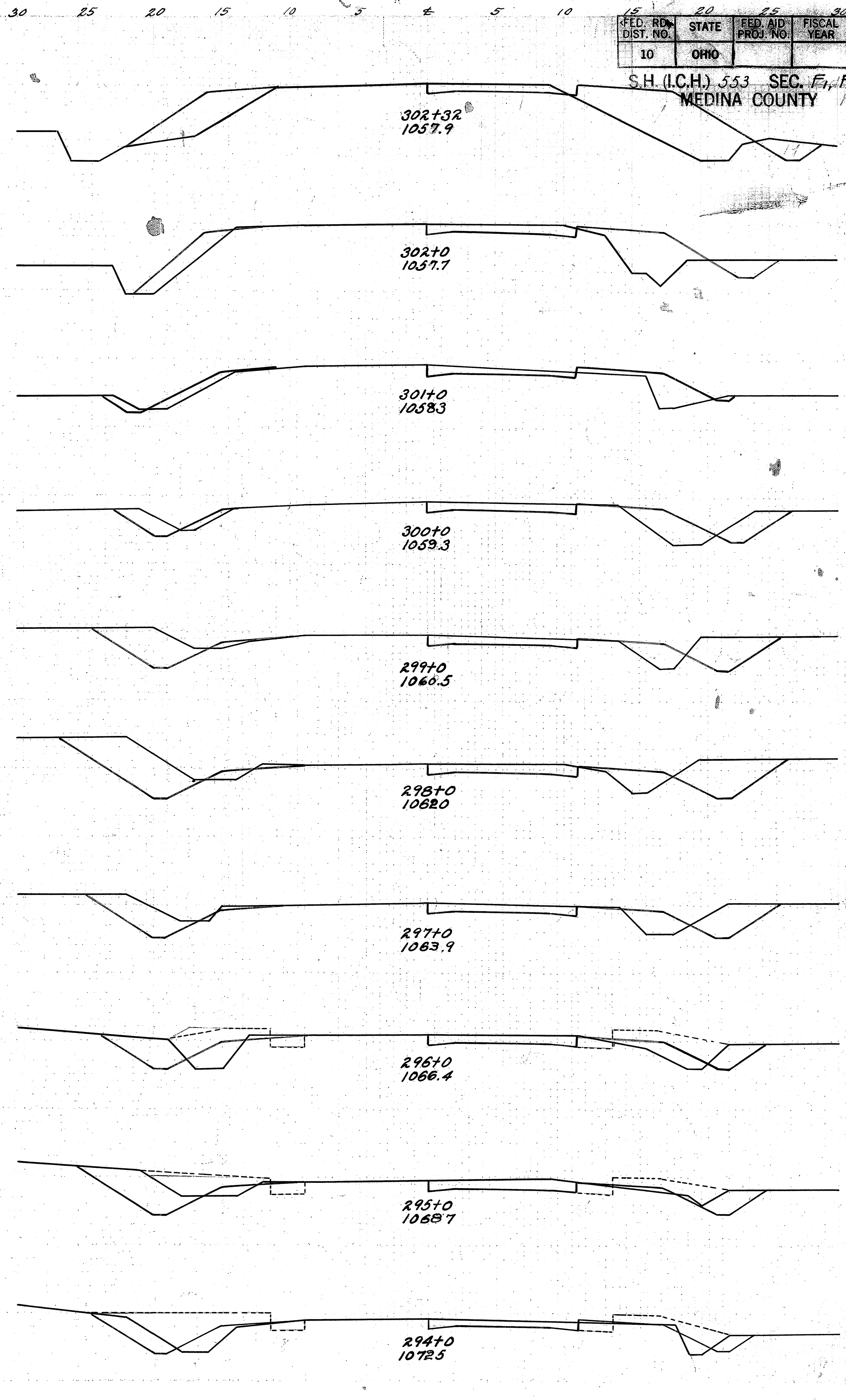
S.H. (I.C.H.) 553 SEC. F, Fz, G
 MEDINA COUNTY

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End Area	Cu. Yds.	End Area	Cu. Yds.
Out	Fill	Out	Fill
142	92	572	502
92	225	272	1062
172	185	662	712
62	352	287	1194
142	200	44	532
95	295	333	1002
52	72	162	352
85	242	324	802
42	102	241	342
92	192	361	722
42	85	882	324
105	202	372	872
385	72	122	332
92	272	392	1142
345	72	472	542
122	352	417	1162
142	125	582	352
105	282	444	842
45	65	272	252
135	175	401	842



End Area	Cu. Yds.	End Area	Cu. Yds.
Out	Fill	Out	Fill
112	492	132	442
125	252	372	702
75	132	432	432
162	105	872	304
312	62	1382	242
425	72	1272	232
265	55	862	304
		722	582
145	112	145	112
125	262	842	272
		452	802
262	42	722	192
122	175	392	812
132	65	582	282
95	262	342	902

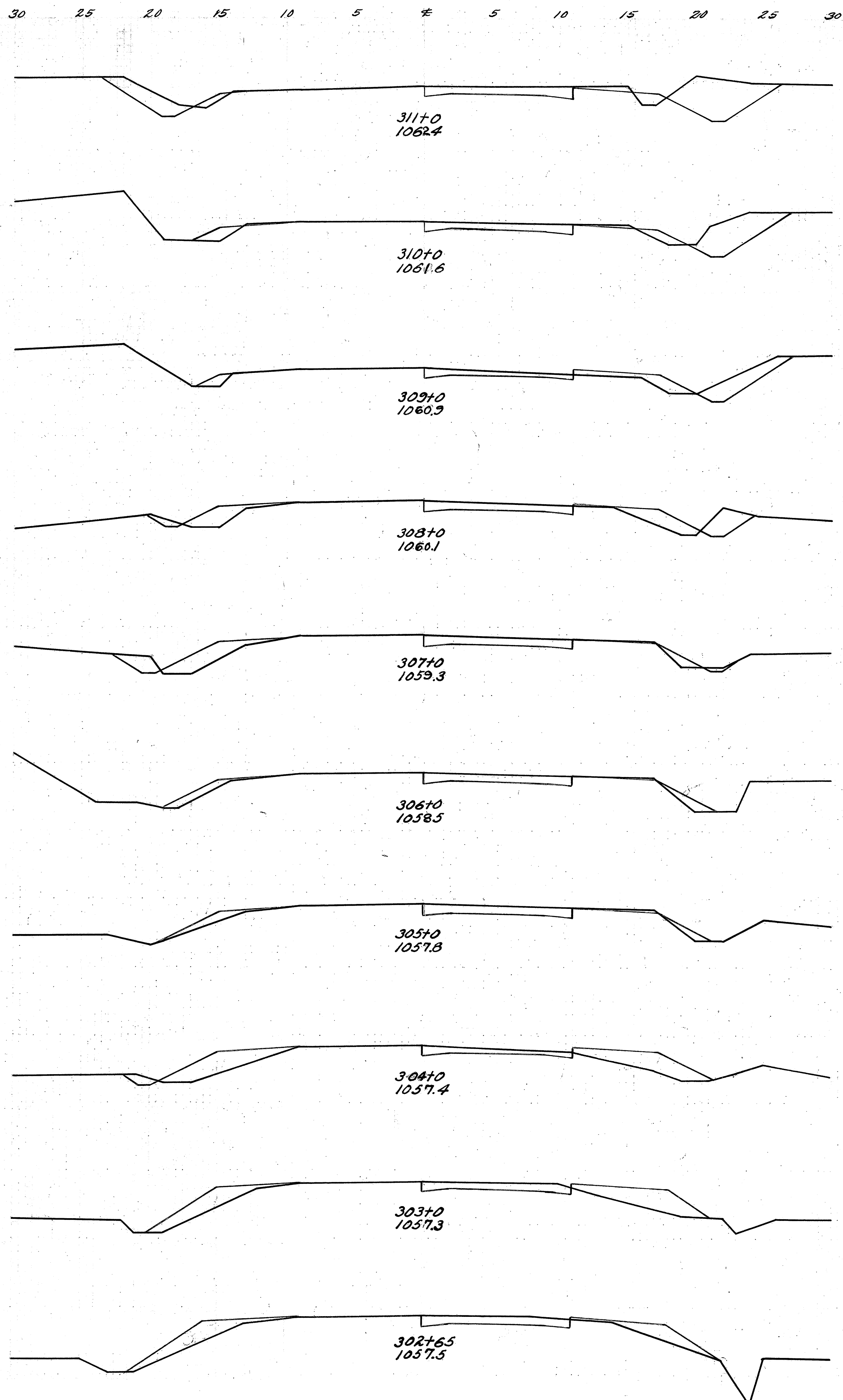


Excav. 1412.8 Cu Yds
Embl. 1031.7

Excav. 634.3 Cu Yds
Embl. 7857.8

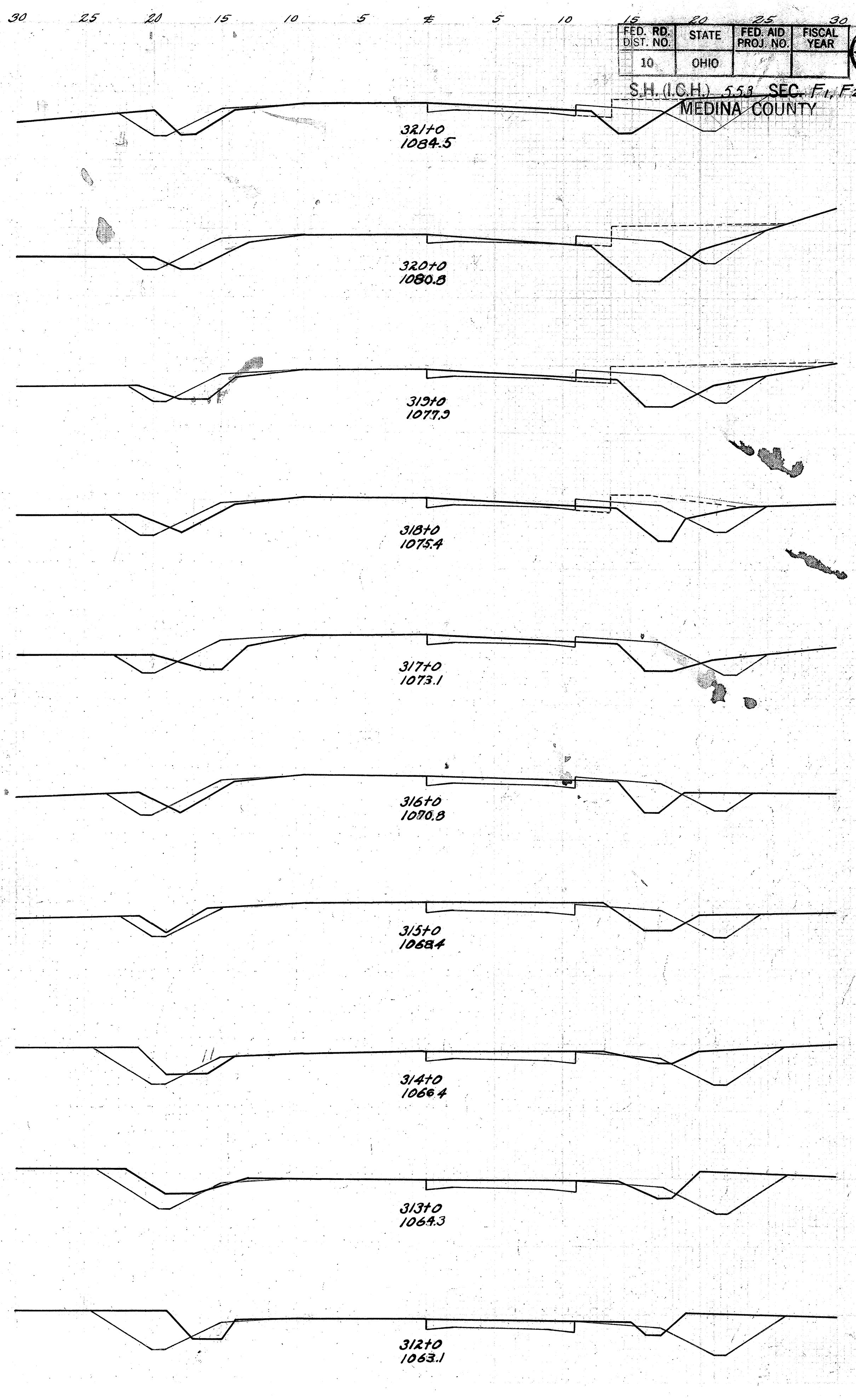
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
30 ⁰	3 ⁵		
		88 ²	15 ²
18 ⁰	5 ⁰		
		53 ²	22 ²
11 ⁰	7 ⁰		
		42 ⁴	32 ⁴
12 ⁰	10 ⁵		
		38 ²	33 ³
9 ⁰	7 ⁵		
		27 ²	23 ⁴
6 ⁰	5 ⁰		
		23 ⁴	18 ³
6 ⁵	5 ⁰		
		22 ²	44 ⁴
5 ⁵	19 ⁰		
		21 ³	70 ⁴
6 ⁰	19 ²		
		8 ⁵	22 ⁴
7 ⁰	15 ⁰		
		11 ⁰	39 ⁴

Excav Emb 120% 343.5 Cu Yds
556.7 " "



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
20 ⁰	11 ⁰		
		52 ²	63 ⁰
		31 ⁵	68 ⁵
8 ⁵	23 ⁰		
		5 ⁰	35 ⁰
		34 ³	73 ⁴
		24 ¹	125 ⁰
10 ⁰	16 ⁵		
		8 ⁰	32 ²
		40 ²	54 ⁴
		32 ⁴	97 ²
12 ⁰	13 ²		
		9 ⁵	20 ⁰
		45 ⁴	57 ⁴
		40 ¹	70 ⁴
12 ⁵	18 ⁰		
		47 ²	52 ²
13 ⁰	10 ⁵		
		57 ⁴	30 ⁴
18 ⁰	6 ⁰		
		83 ²	18 ⁵
27 ⁰	4 ⁰		
		103 ²	11 ⁴
29 ⁰	2 ⁰		
		119 ⁴	11 ⁴
35 ⁵	4 ⁰		
		121 ³	13 ²

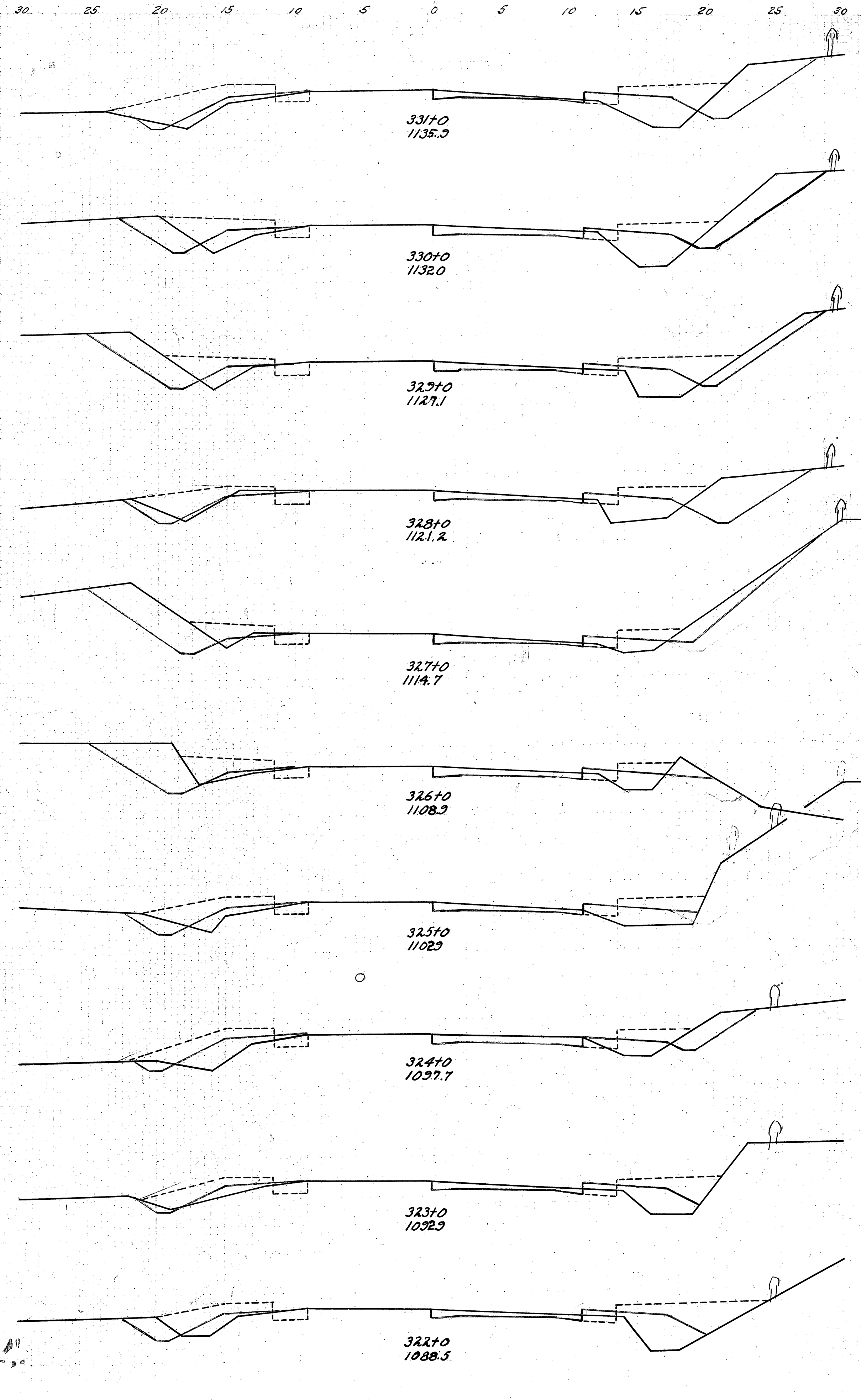
Excav Emb 120% 718.4 Cu Yds
535.5 " "



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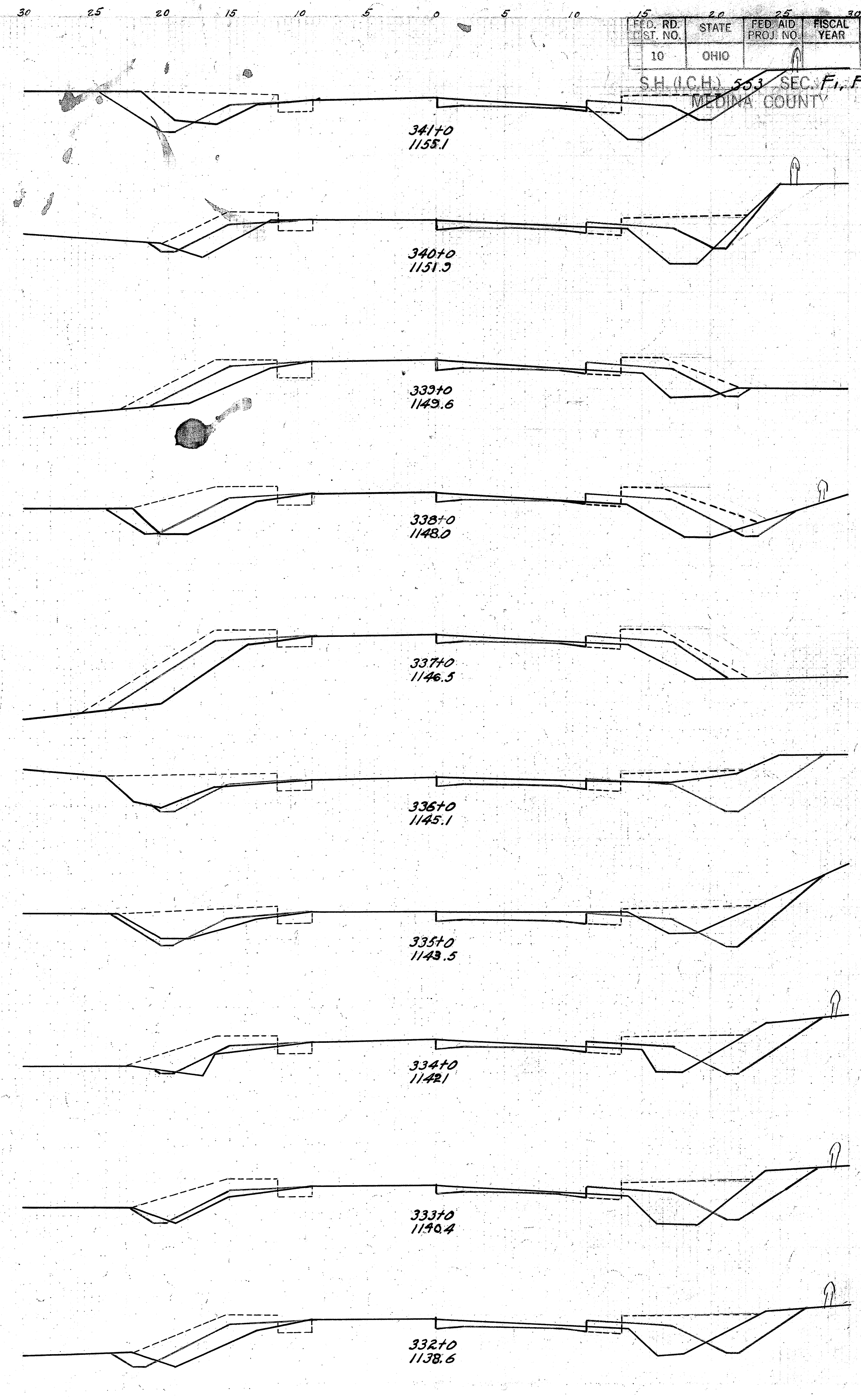
S.H. (I.C.H.) 558 SEC. F1, F2, G2
MEDINA COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
17.5	16.0		
6.5	35.5		
		89.8	61.4
		31.5	118.5
27.2	17.8		
10.5	128.5		
		91.2	55.4
		32.2	100.9
23.2	13.0		
7.0	26.0		
		85.2	42.6
		27.8	85.2
23.0	10.2		
8.0	20.0		
		148.1	29.4
		27.9	59.3
57.2	6.2		
7.0	12.0		
		157.4	22.2
		28.7	50.9
28.4	6.2		
8.5	15.5		
		127.3	35.2
		30.0	75.0
41.2	13.2		
8.0	25.0		
		104.9	50.1
		32.4	89.8
14.2	14.5		
9.5	23.5		
		53.4	52.8
		35.2	89.8
6.0	14.2		
9.5	25.0		
		25.4	53.2
		33.3	113.2
8.2	15.2		
8.5	36.5		
		57.2	48.4
		38.2	89.8



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
17.0	15.0		
7.0	30.0		
		54.4	60.2
		31.5	121.3
12.5	17.5		
10.0	35.0		
		30.4	66.2
		32.4	123.3
4.0	18.5		
7.5	31.0		
		24.1	74.4
		22.2	129.6
9.0	21.5		
4.5	39.0		
		24.1	71.2
		21.3	155.9
4.0	28.0		
7.0	45.0		
		57.4	57.2
		30.6	127.8
27.2	0.2		
9.5	24.0		
		87.0	9.3
		39.8	95.4
20.0	5.0		
12.0	27.5		
		70.2	31.5
		38.8	104.8
18.0	12.0		
8.5	29.0		
		64.8	50.2
		24.1	123.3
17.2	15.5		
4.5	37.5		
		62.0	60.2
		24.1	138.2
16.5	16.2		
8.5	37.5		
		66.2	61.4
		27.8	135.2

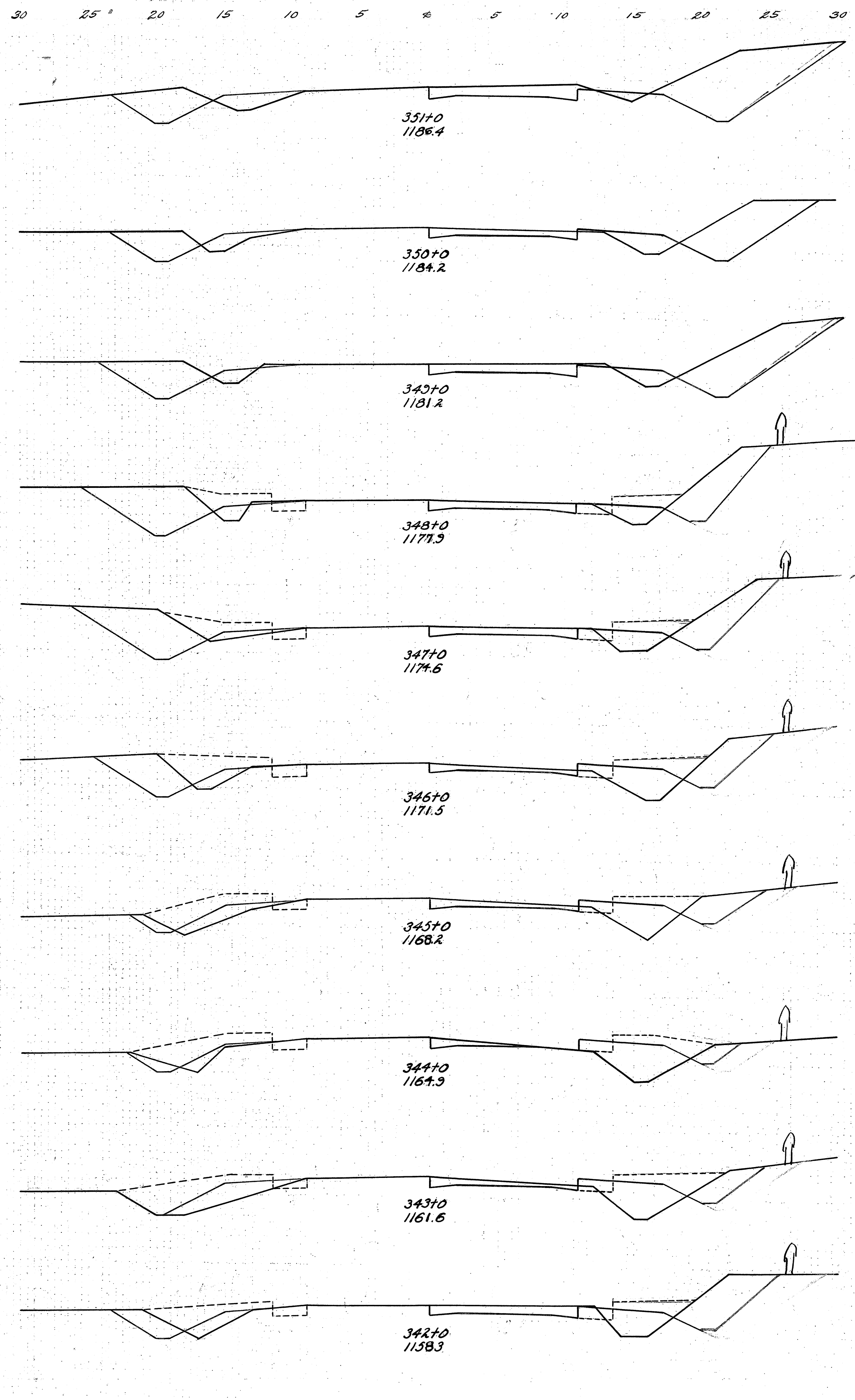
Excav. Embank. 291.8 cu yds.
1502.8 " "



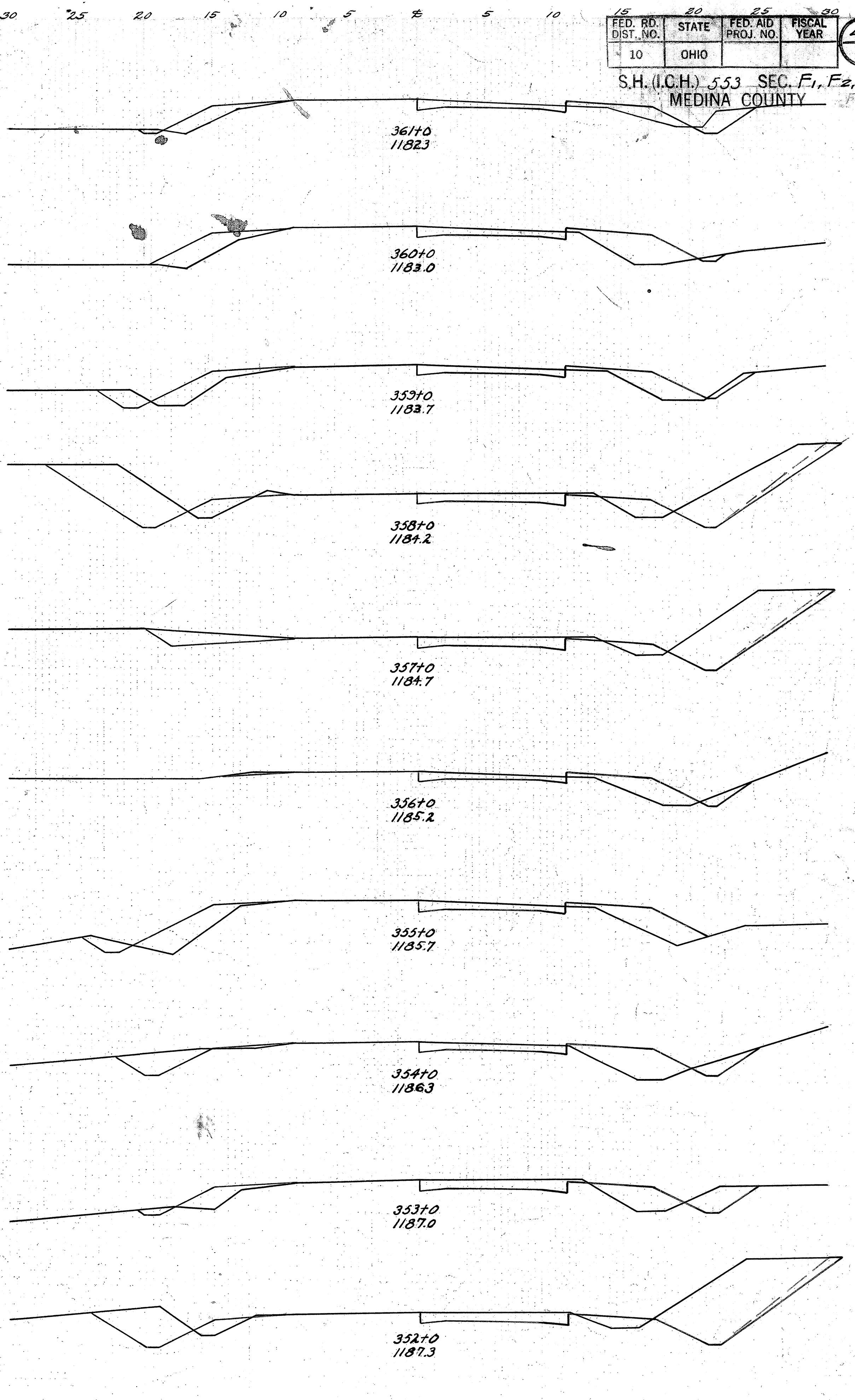
FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
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S.H. (I.C.H.) 553 SEC. F₁, F₂, G₂
MEDINA COUNTY

End Area	Cu. Yds.	End Area	Cu. Yds.
Cut	Fill	Cut	Fill
56° 7'			
	170' 32'		
36° 10'			
	153' 31'		
47° 6'			
	217' 25'		
	108' 38'		
70° 7'			
	240' 28'		
	41' 58'		
63° 8'			
	188' 37'		
	35' 83'		
38° 13'			
	108' 56'		
	29' 10'		
20° 17'			
	62' 63'		
	24' 113'		
13° 17'			
	57' 70'		
	22' 131'		
18° 21'			
	184' 57'		
	34' 94'		
41° 10'			
	107' 46'		
	34' 80'		



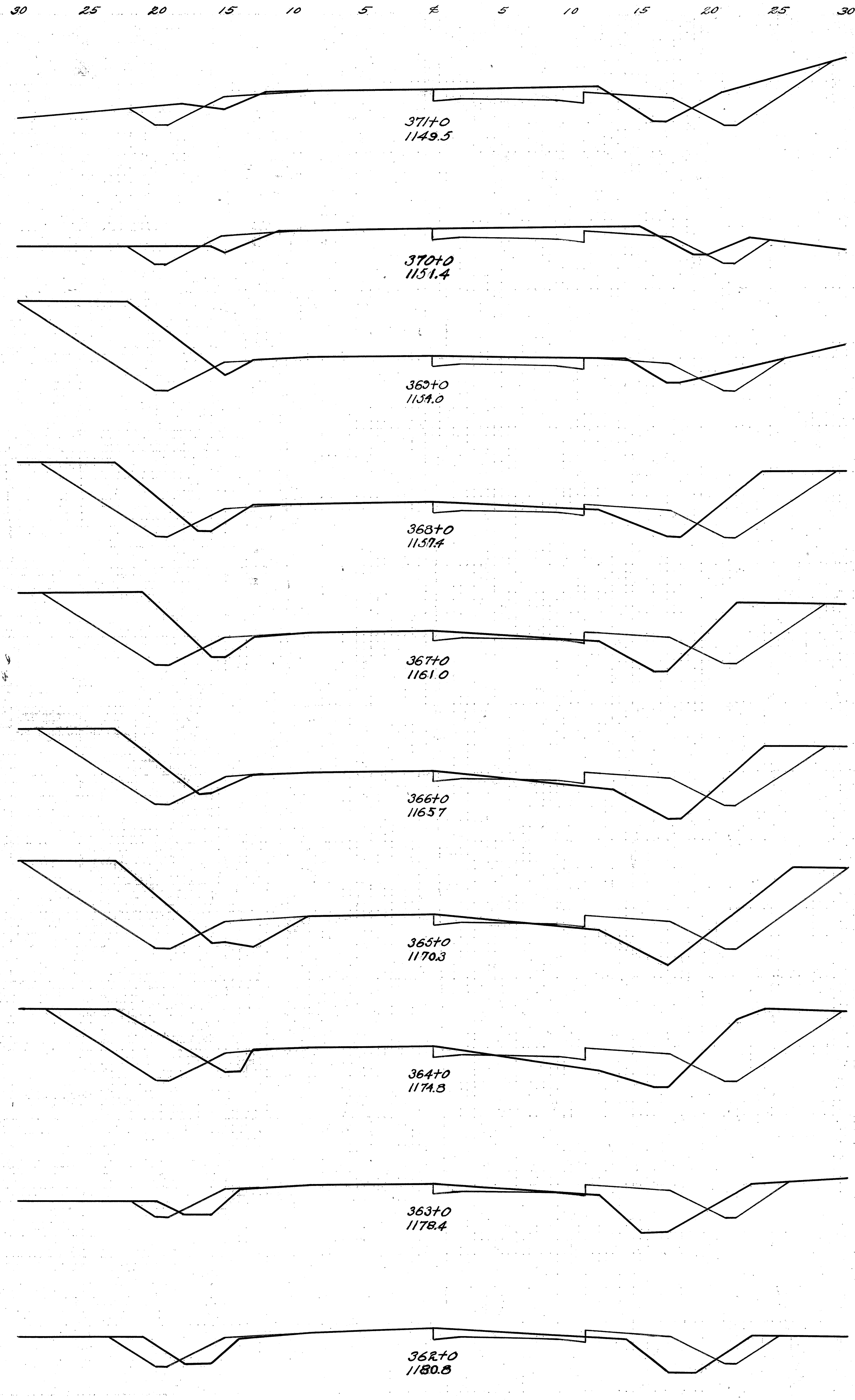
End Area	Cu. Yds.	End Area	Cu. Yds.
Cut	Fill	Cut	Fill
9° 11'			
	282' 61'		
6° 21'			
	30' 71'		
10° 17'			
	118' 48'		
54° 8'			
	188' 18'		
47° 2'			
	97' 19'		
5° 8'			
	25' 55'		
8° 21'			
	45' 63'		
16° 13'			
	56' 50'		
14° 14'			
	141' 38'		
62° 6'			
	218' 25'		



Excav. 1021.8 Cu. Yds.
Emplaced 506.6

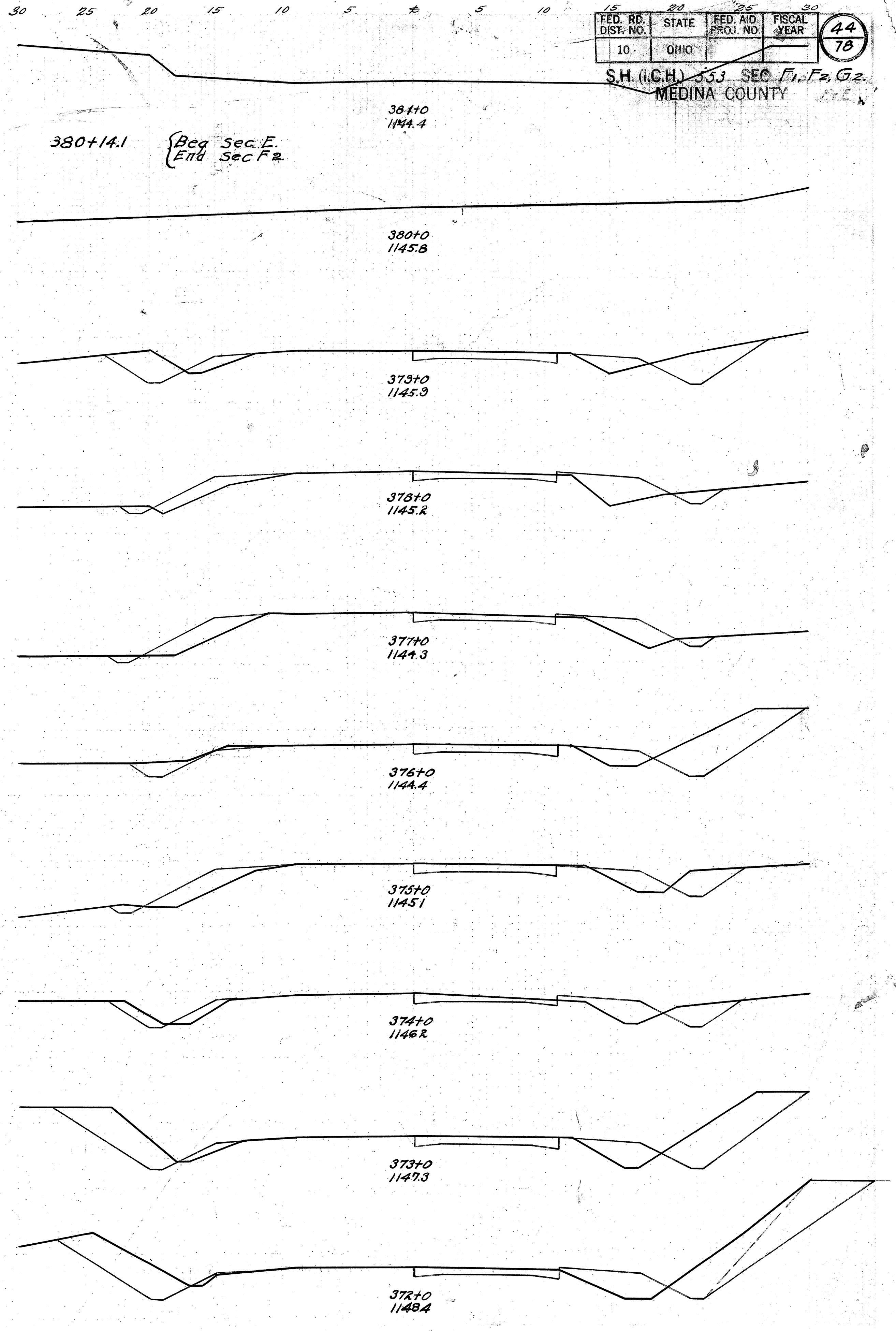
End Area	Cu. Yds.	End Area	Cu. Yds.
Cut	Fill	Cut	Fill
30 ^a 8 ^o			
	88	24	
18 ^a 5 ^o			
	137	18	
57 ^a 5 ^o			
	193	29	
50 ^a 11 ^o			
	191	48	
53 ^a 15 ^o			
	178	61	
43 ^a 18 ^o			
	209	79	
70 ^a 25 ^o			
	231	83	
55 ^a 20 ^o			
	122	75	
11 ^a 20 ^o			
	46	67	
17 ^a 16 ^o			
	42	51	

Excav 1378.8 Cu Yds
Embl 20% 691.0

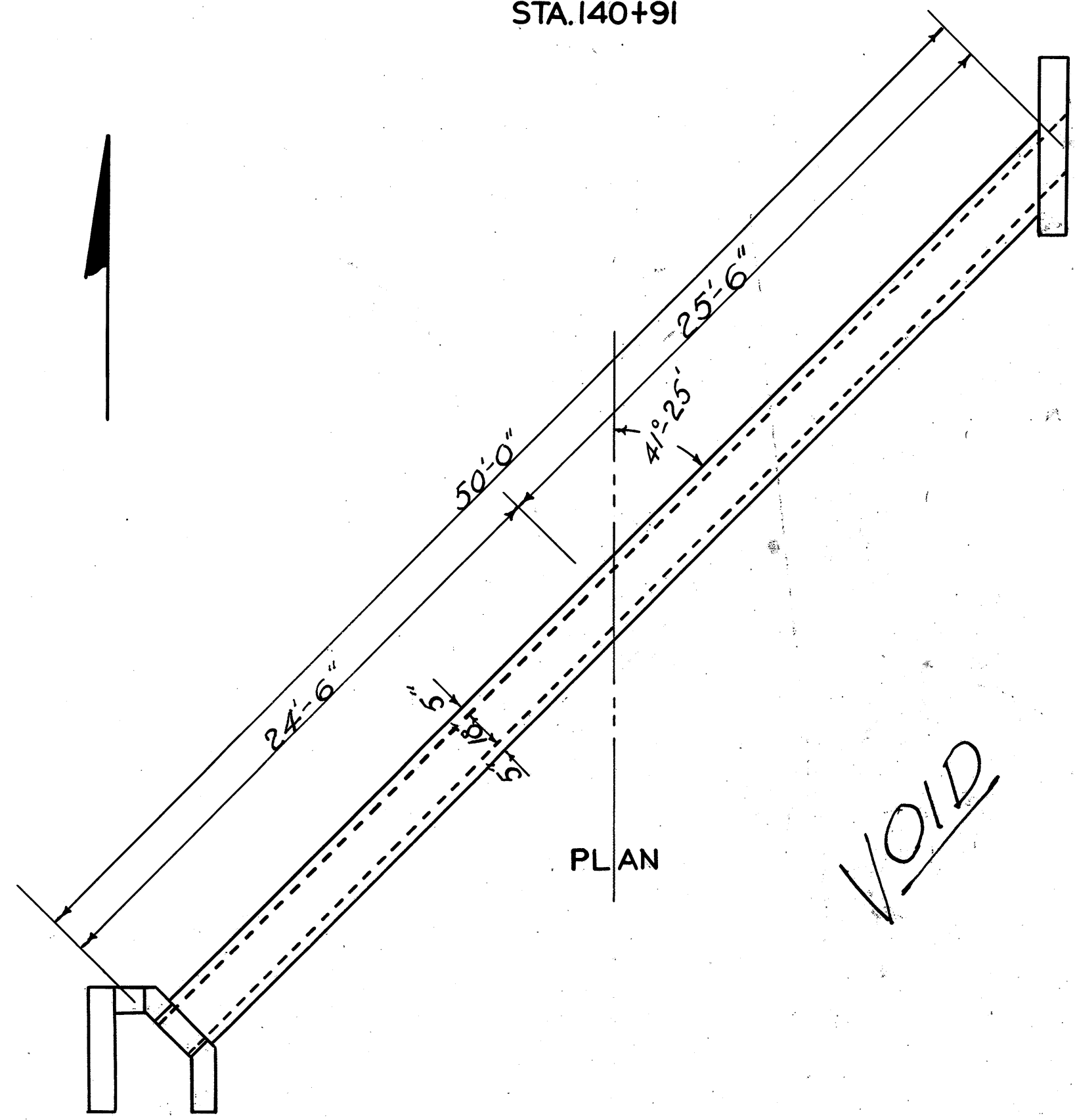


End Area	Cu. Yds.	End Area	Cu. Yds.
Cut	Fill	Cut	Fill
26 ^a 7 ^o			
	64	46	
9 ^a 10 ^o			
	30	63	
7 ^a 16 ^o			
	76	38	
34 ^a 5 ^o			
	88	38	
13 ^a 16 ^o			
	50	18	
14 ^a 10 ^o			
	119	37	
48 ^a 10 ^o			
	203	38	
62 ^a 10 ^o			
	171	34	

Excav 889.9 Cu Yds
Embl 20% 443.4



NO.11
STA.140+91

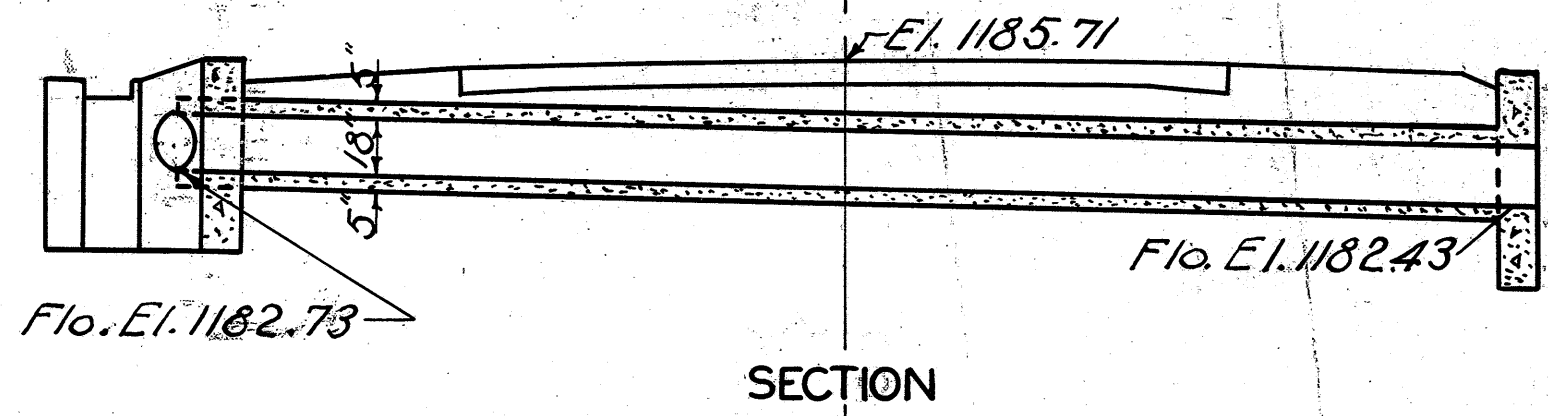


PLAN

Reqd: New Culvert.

VOID

Note:- Contractor shall remove 24' of 15" Sect 1 C.I.P and neatly pile same on right-of-way. Same shall remain the property of Medina County.



SECTION

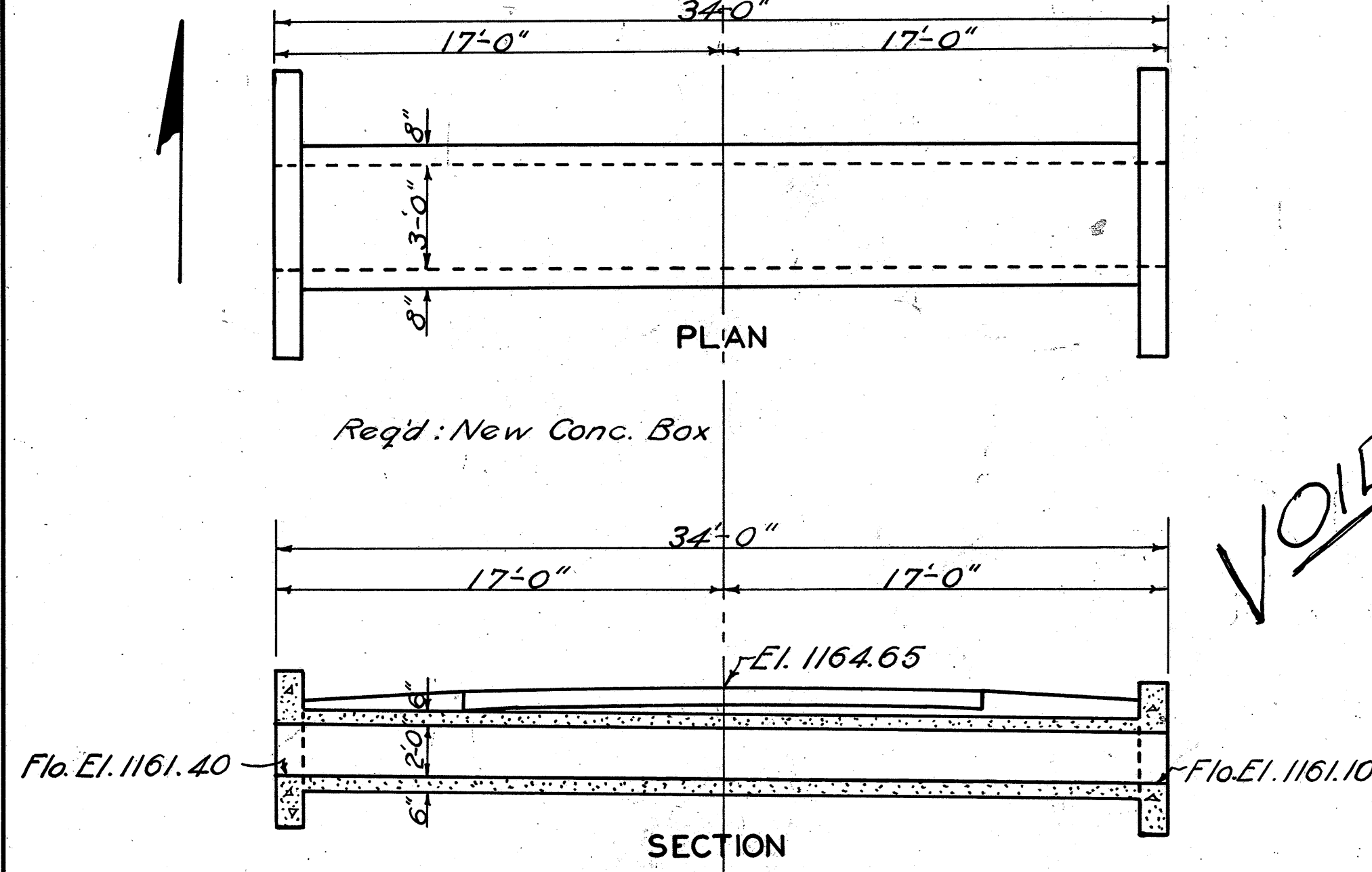
VOID

Estimated Quantities
Excava. unclass. 23 Cu.Yds. ✓
15" Sect 1.P. Removed 24 Lin.Ft. ✓
Ditch Excava 100 Lin.Ft. ✓
1-5 1/2 Conc. 2.9 Cu.Yds. ✓
1-8 Conc. 7.4 Cu.Yds. ✓
Reinf. Steel. 63 Lbs. ✓
18" Vit. Pipe 50 Lin.Ft. ✓

Reqd: Remove 24'-15" Sect 1.P & Replace with 18" Vit. Rencased Std Hillside H.W. on Left & Std. Vit. P, H.W. on Right.

Sec. G-1

NO.12
STA.154+17



PLAN

Reqd: New Conc. Box

SECTION

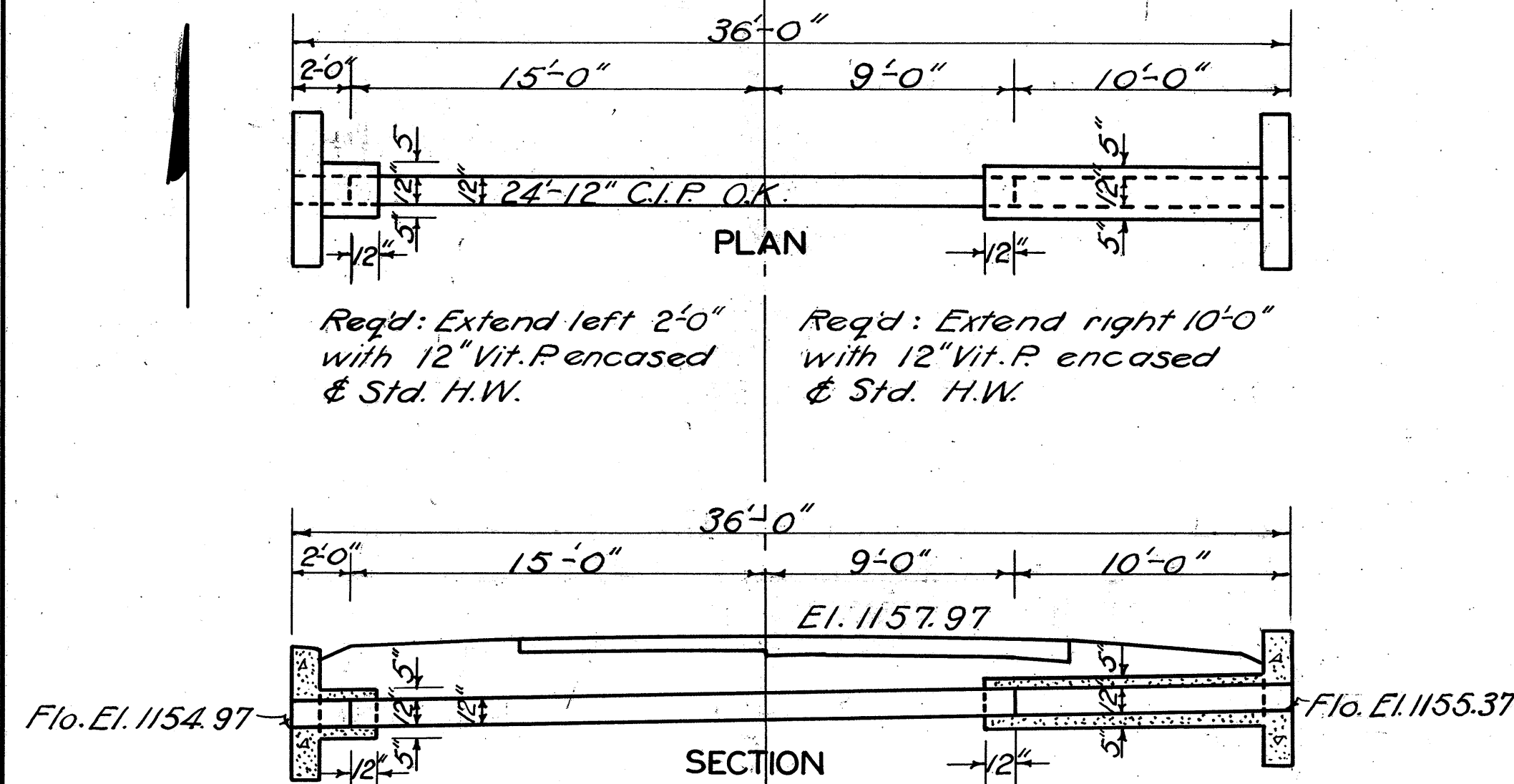
VOID

Estimated Quantities.
Excava. unclass. 34 Cu.Yds.
Masonry Removed 18 Cu.Yds.
Ditch Excava. 100 Lin.Ft.
1-5 1/2 Conc. 12.7 Cu.Yds.
Reinf. Steel. 730 Lbs.

Reqd: 34'-3" X 2' Conc. Box & Std. H.Ws.
Remove old stone box.

Sec. G-1

NO.19
STA 263+98



PLAN

Reqd: Extend left 2'-0" with 12" Vit.P. encased & Std. H.W.

Reqd: Extend right 10'-0" with 12" Vit.P. encased & Std. H.W.

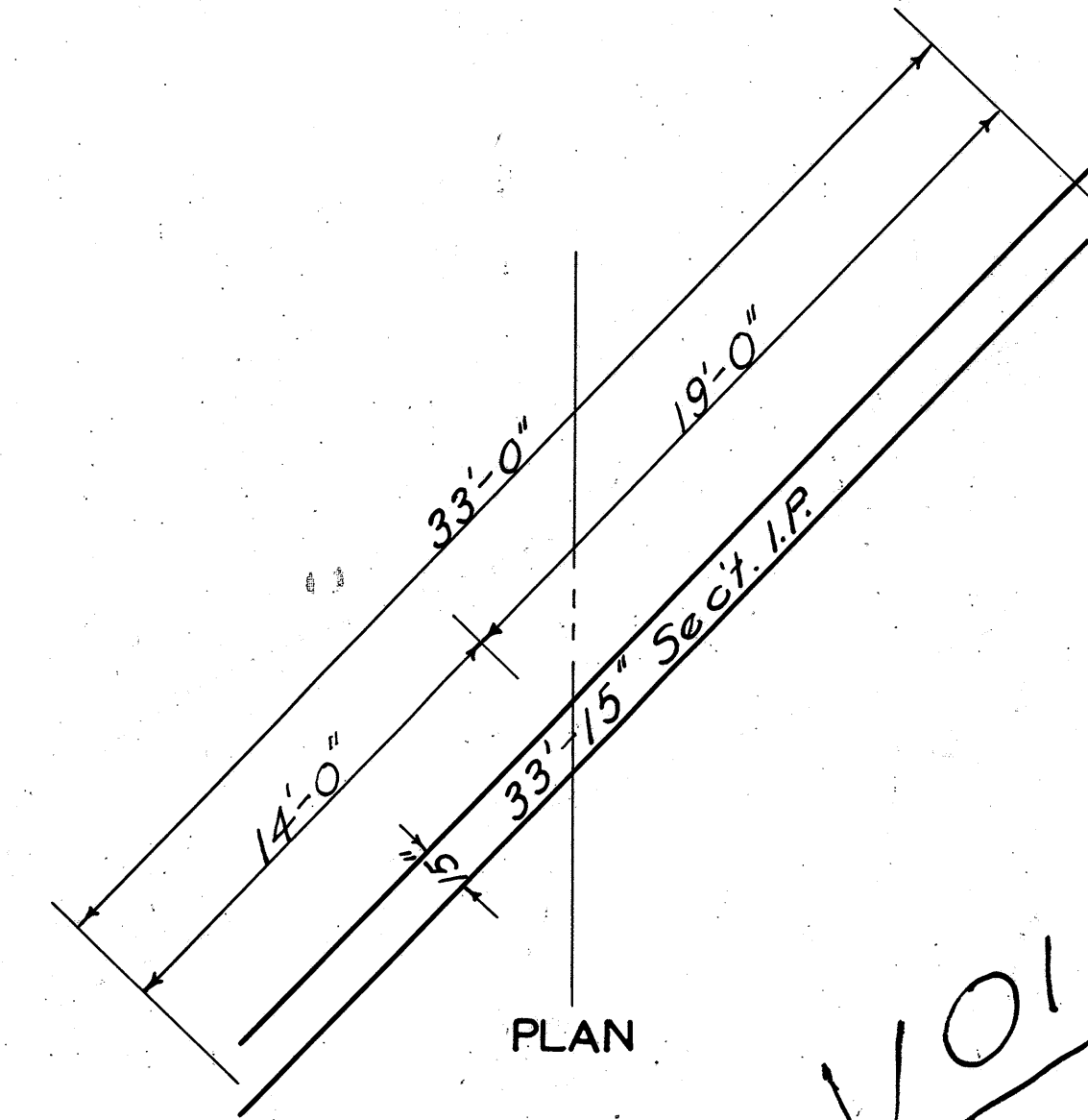
SECTION

Estimated Quantities.
Excava. unclass. 6 Cu.Yds. ✓
1-5 1/2 Conc. 2 Cu.Yds. ✓
1-8 Conc. 1.3 Cu.Yds. ✓
Reinf. Steel 65 Lbs. ✓
12" Vit. Pipe 12 Lin.Ft. ✓

Reqd: Extend Left 2'-0" & Right 10'-0" with 12" Vit. P. encased & Std. H.Ws.

Sec. F 2

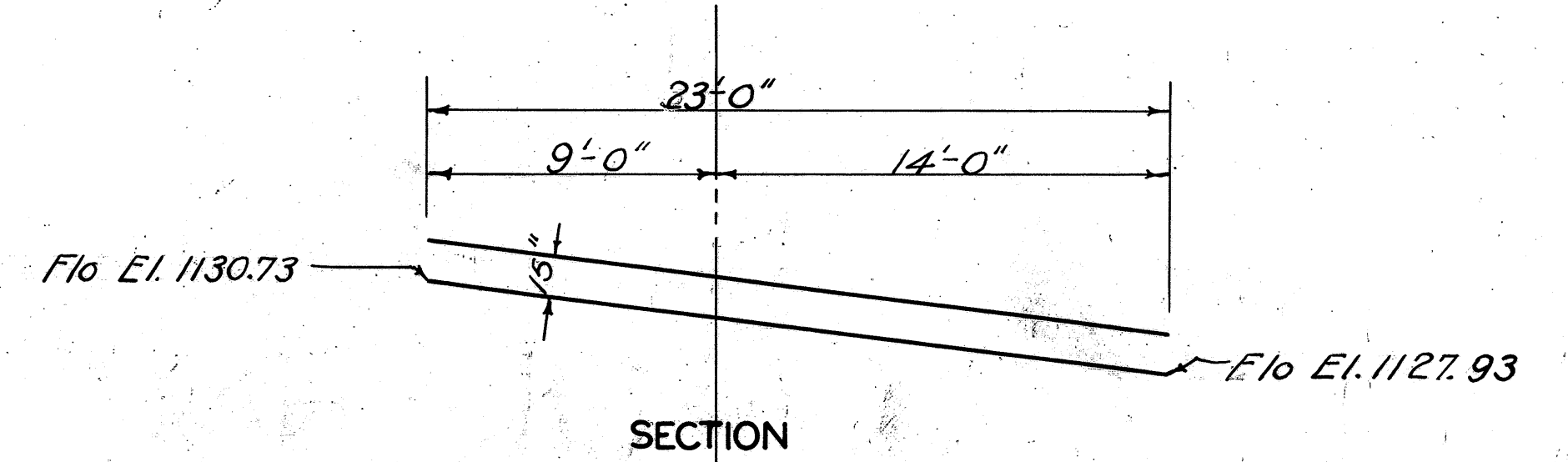
NO.13
STA.169+0



PLAN

Abandon

VOID



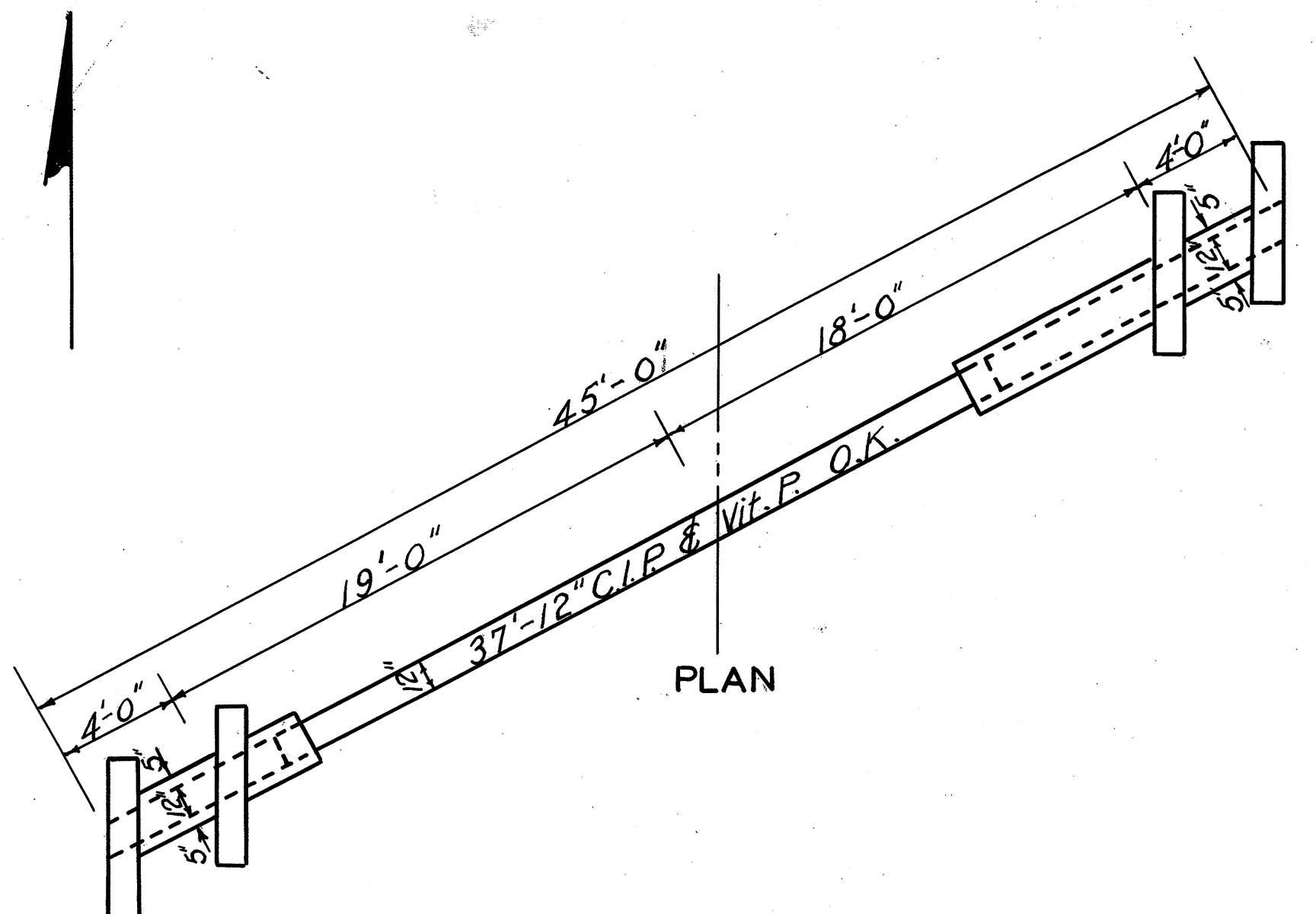
SECTION

Note:- Present 15" C.I.P. to be removed and neatly Piled within the limits of the highway and remain the property of Medina County

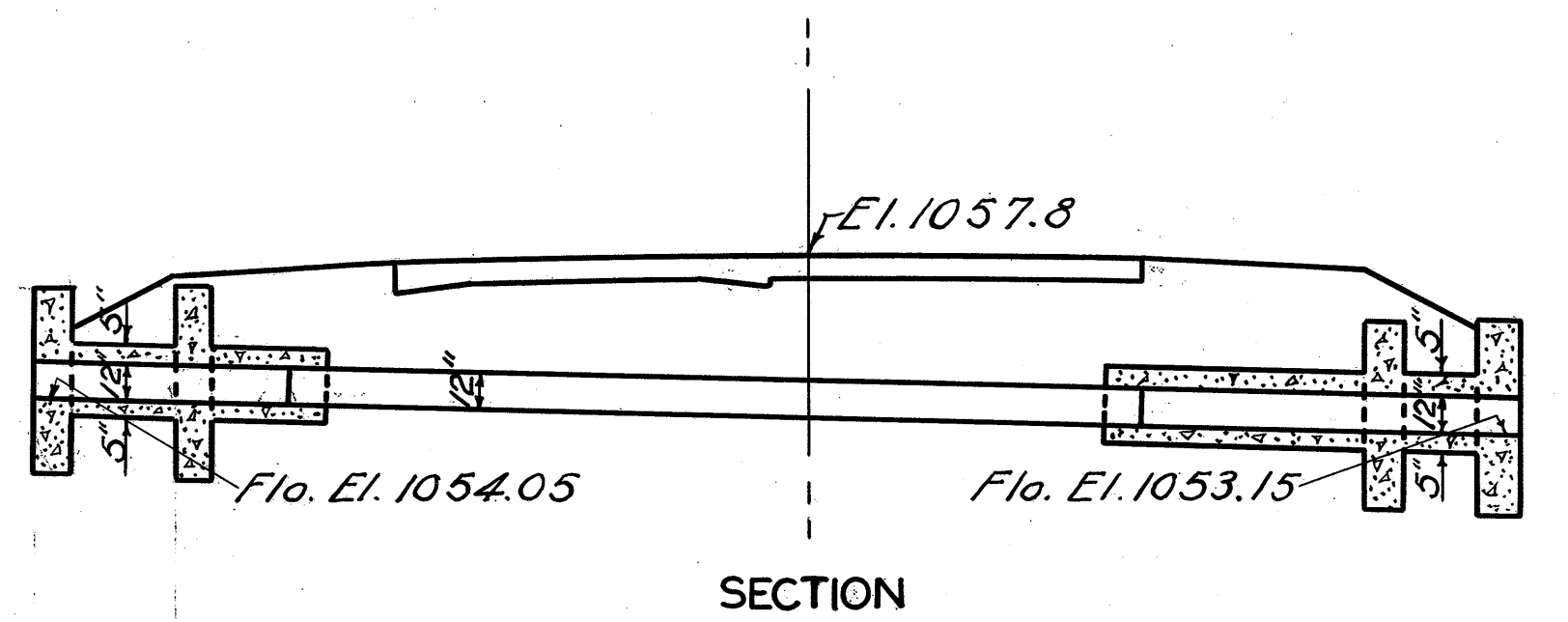
Req: Abandon. Sec. G-1

VOID

NO.16
STA 197+58



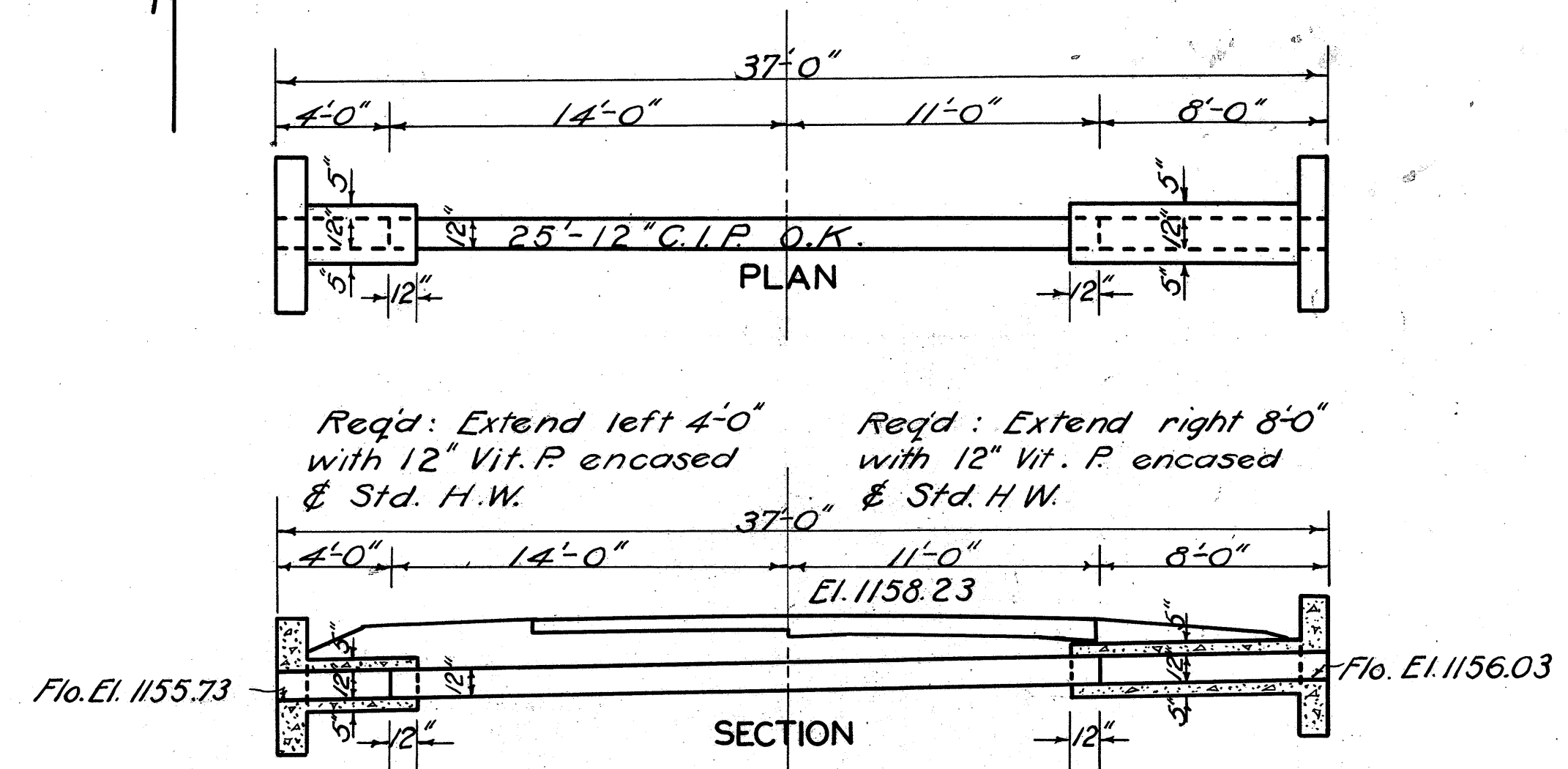
Reqd: Extend left 4'-0" with 12" Vit. P encased & Std. H.W.
Reqd: Extend right 4'-0" with 12" Vit. P encased & Std. H.W.



Estimated Quantities:
Excava. unclass. 4 Cu.Yds. ✓
1-5 1/2 Conc. 2 Cu.Yds. ✓
1-8 Conc. 0.7 Cu.Yds. ✓
Reinf. Steel 65 Lbs. ✓
12" Vit. Pipe 8 Lin.Ft. ✓

Reqd: Extend Left 4'-0" & Right 4'-0" with 12" Vit. Pipe encased & Std. H.W's.
Sec. G-2

NO.20
STA 275+29

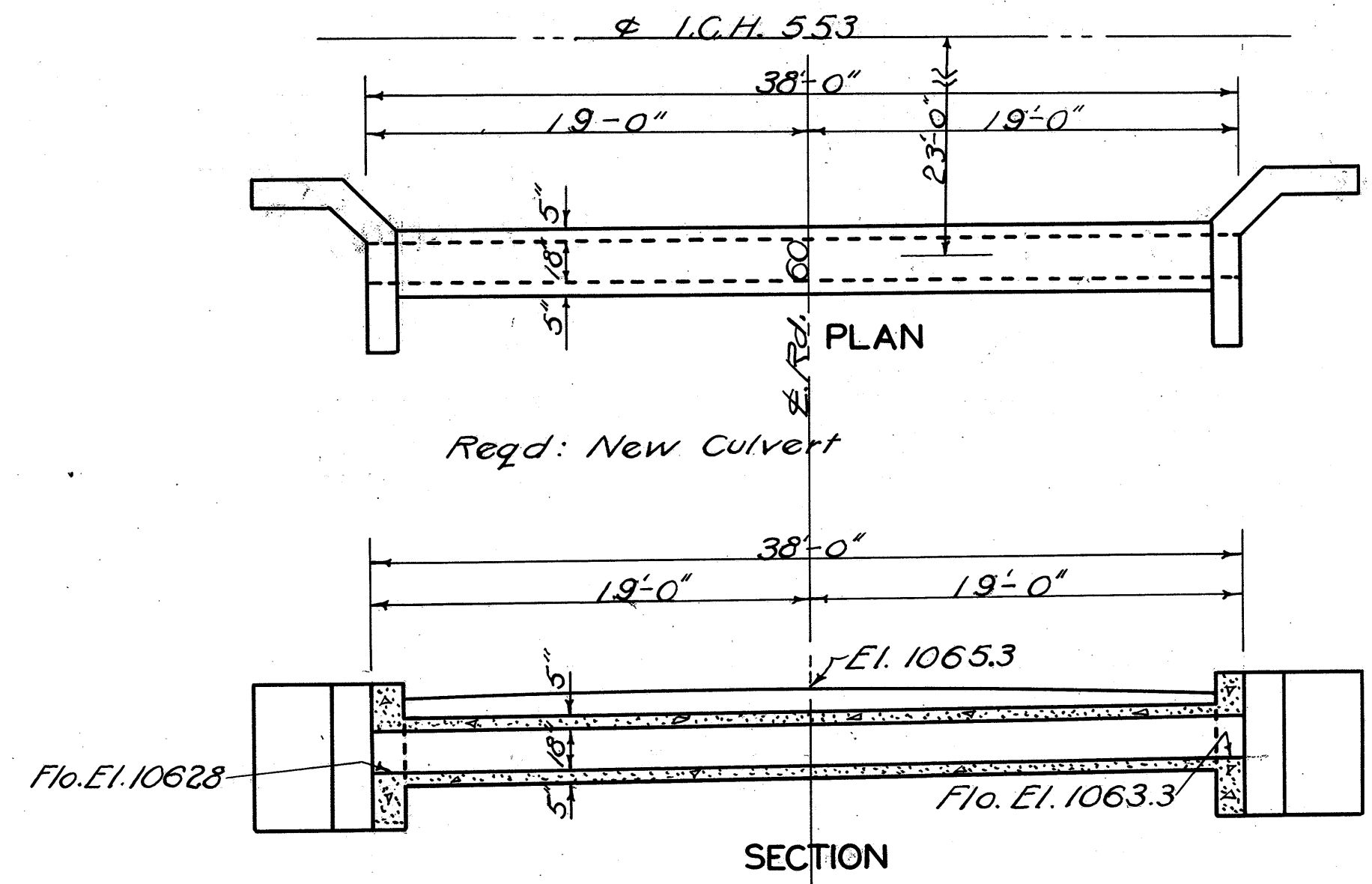


Reqd: Extend left 4'-0" with 12" Vit. P encased & Std. H.W.
Reqd: Extend right 8'-0" with 12" Vit. P encased & Std. H.W.

Estimated Quantities:
Excava. unclass. 6.0 Cu.Yds. ✓
1-5 1/2 Conc. 2.0 Cu.Yds. ✓
1-8 Conc. 1.3 Cu.Yds. ✓
Reinf. Steel 65 Lbs. ✓
12" Vit. Pipe 12 Lin.Ft. ✓

Reqd: Extend Left 4'-0" & Right 8'-0" with 12" Vit. P encased & Std. H.W's.
Sec. F-2

NO.25
STA 313+64.5



Reqd: New Culvert

Estimated Quantities:
Excava. unclass. 13 Cu.Yds. ✓
Pipe removed 36 Lin.Ft. ✓
1-5 1/2 Conc. 3.3 Cu.Yds. ✓
1-8 Conc. 5.6 Cu.Yds. ✓
Reinf. Steel 70 Lbs. ✓
18" Vit. Pipe 38 Lin.Ft. ✓

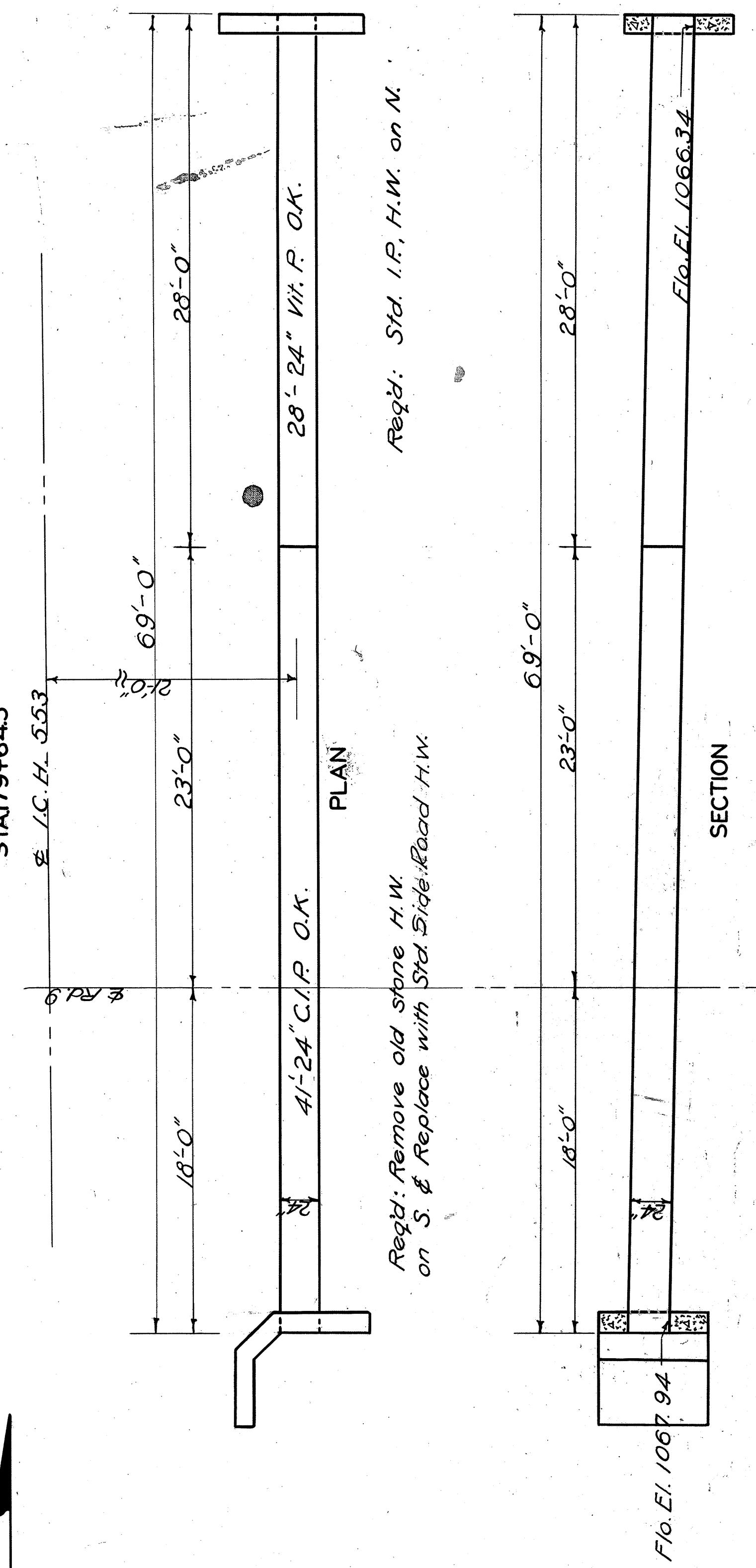
Reqd: Remove 4'-15" V.P., 8'-18" V.P. & 24'-16" C.I.P. Replace with 38'-18" Vit. P. encased & Std. Side Road H.W's.
Sec. F-2

Note: Contractor shall remove 24' of 16" C.I.P. and neatly pile same on right-of-way. Same shall remain property of Medina County.

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		62

S.H. (I.C.H.) 553 SEC. F₁, F₂, G₂
MEDINA COUNTY

NO.14
STA 179+64.5



Reqd: Std. I.P., H.W. on N.

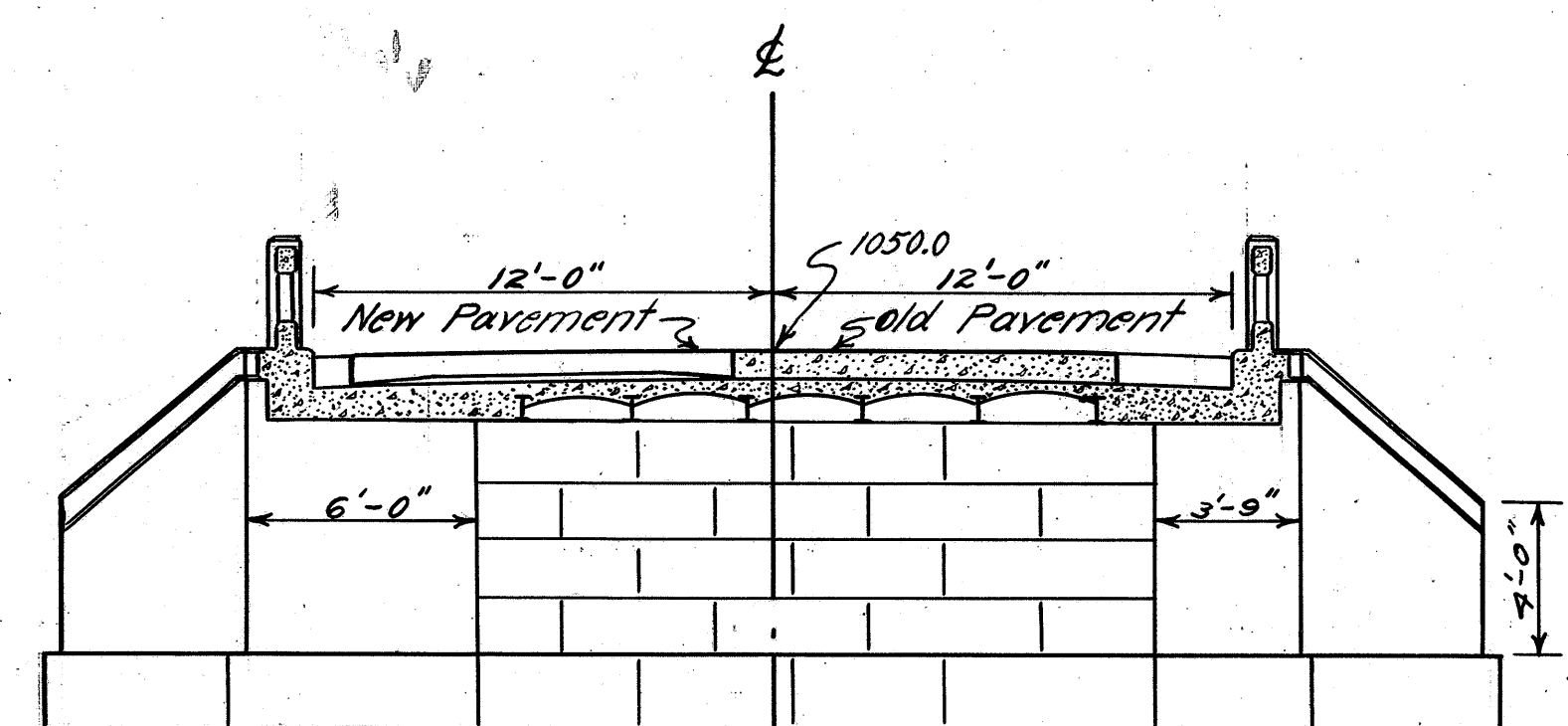
Reqd: Remove old stone H.W. on S. & Replace with Std. Side Road H.W.

Estimated Quantities:
Excava. unclass. 5.0 Cu.Yds. ✓
Masonry removed 0.2 Cu.Yd. ✓
1-5 1/2 Conc. 3.8 Cu.Yds. ✓
Reinf. Steel 95 Lbs. ✓

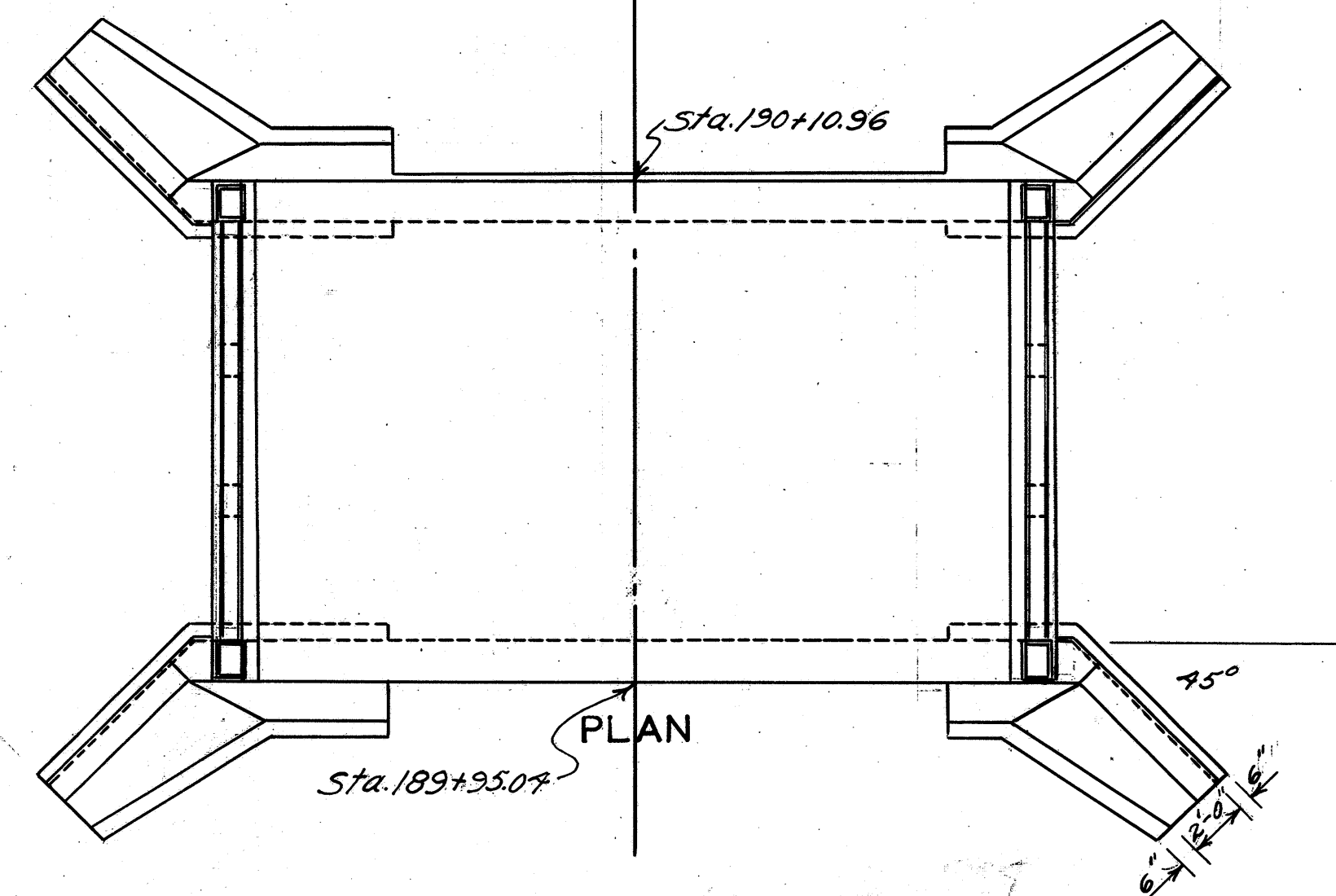
Reqd: Remove old stone H.W. on S. & Replace with Std. Side Road H.W. & Std. I.P., H.W. on N. end Sec. G-2

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		63 78

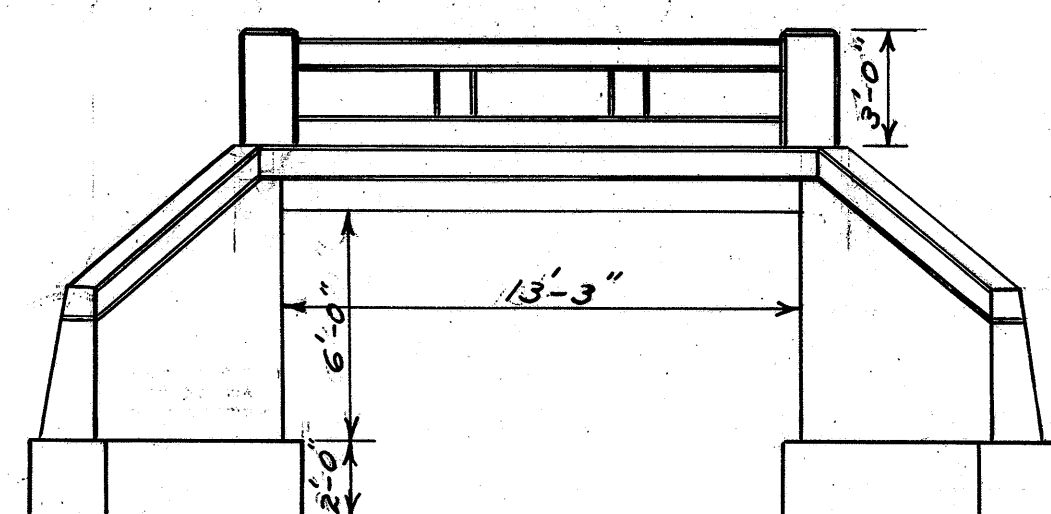
S.H. (I.C.H.) 553 SEC. F₁₁, F₂, G₂
MEDINA COUNTY



SECTION



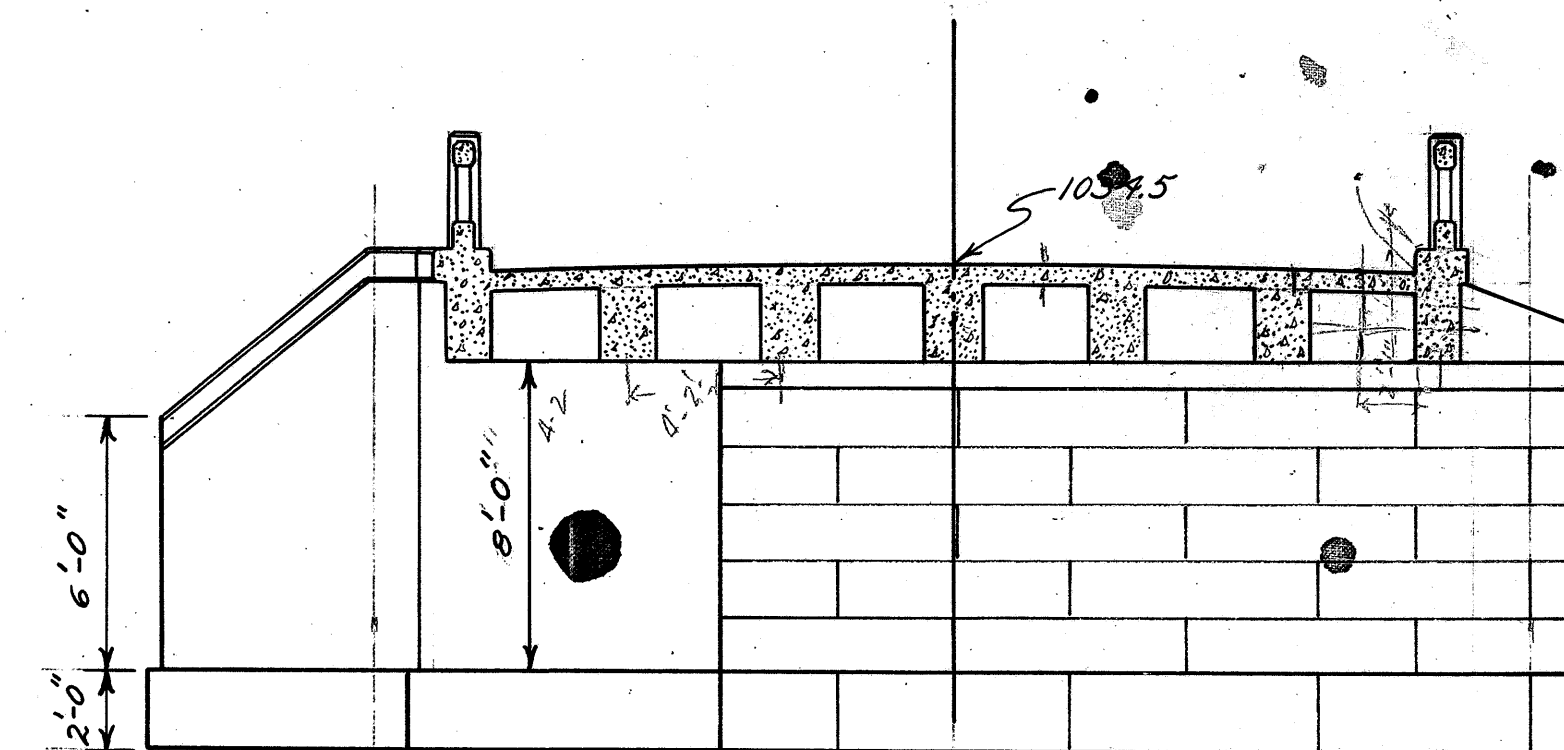
PLAN



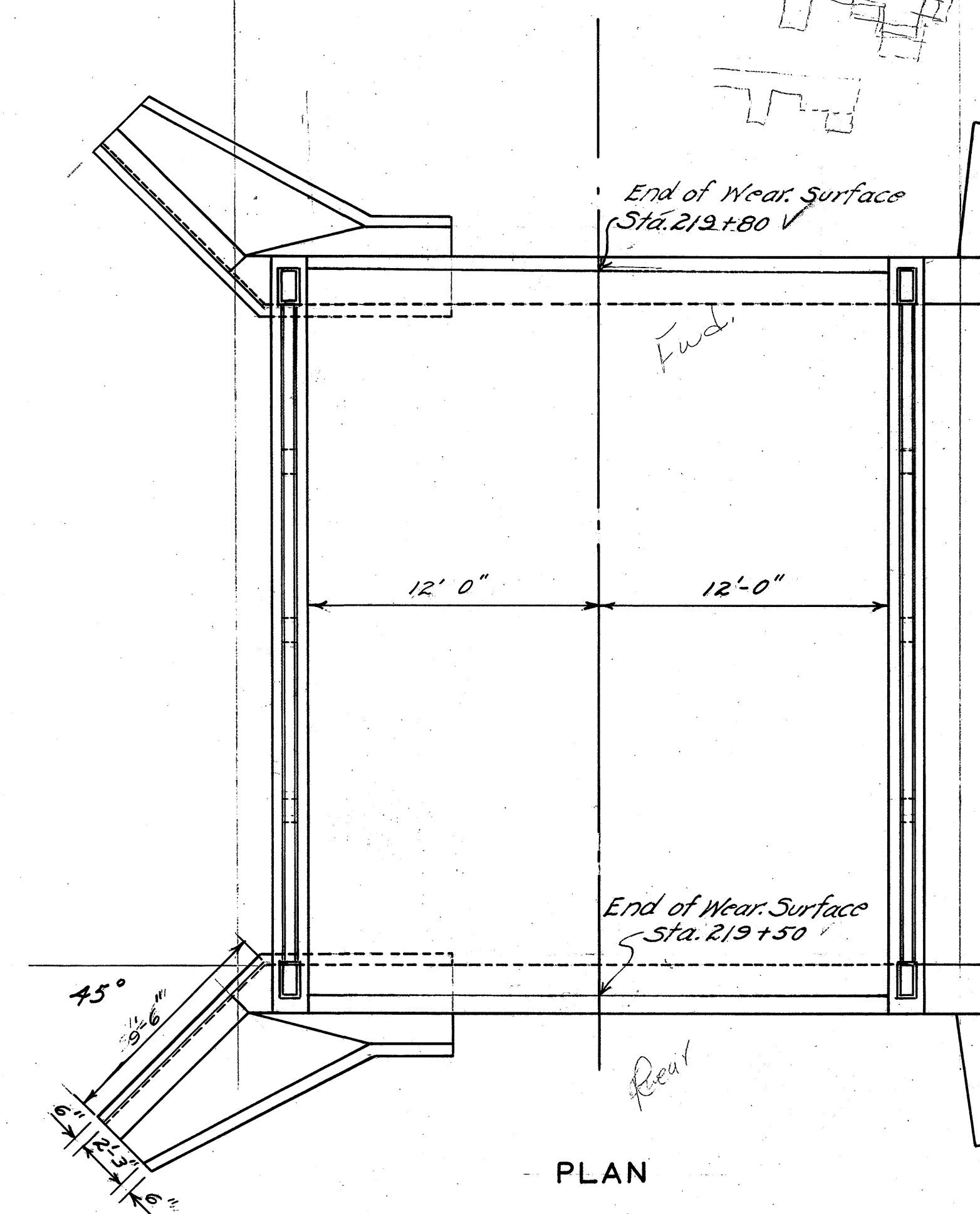
ELEVATION

NO WORK REQUIRED

BRIDGE NO. 15
STATION 190+03



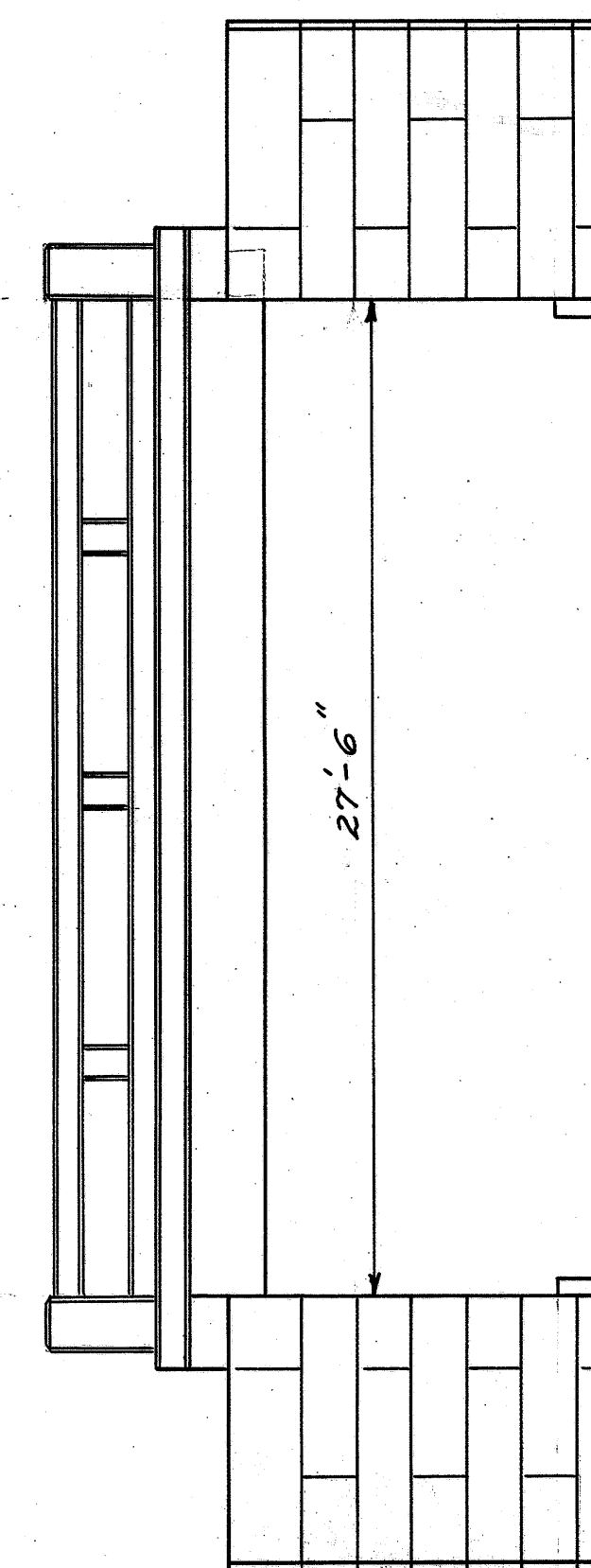
SECTION



PLAN

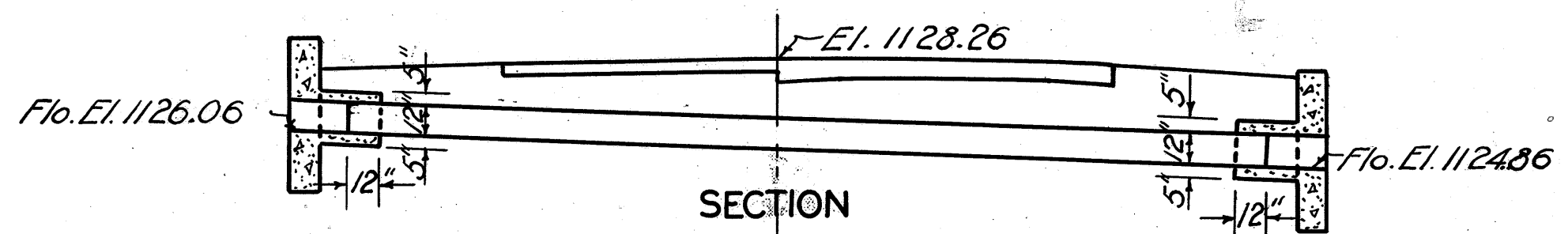
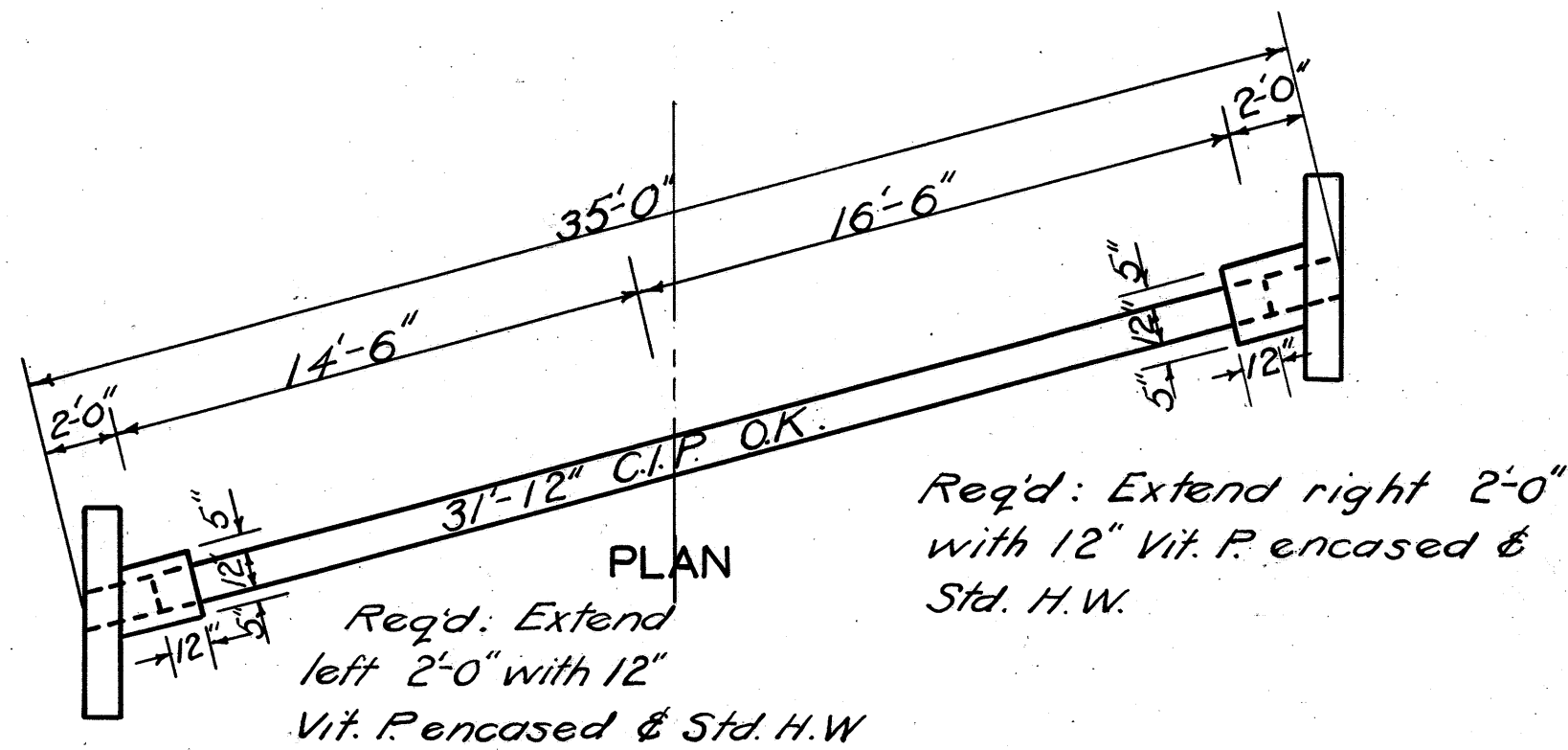
NO WORK REQUIRED

BRIDGE NO. 17
STATION 219+65



ELEVATION

NO. 21
STA. 287+47



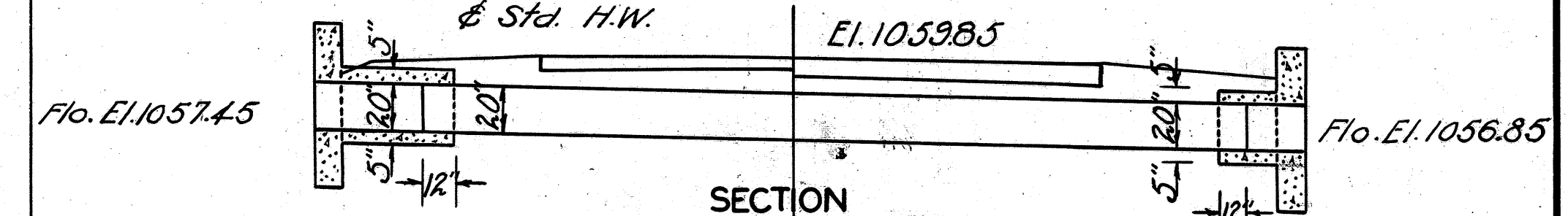
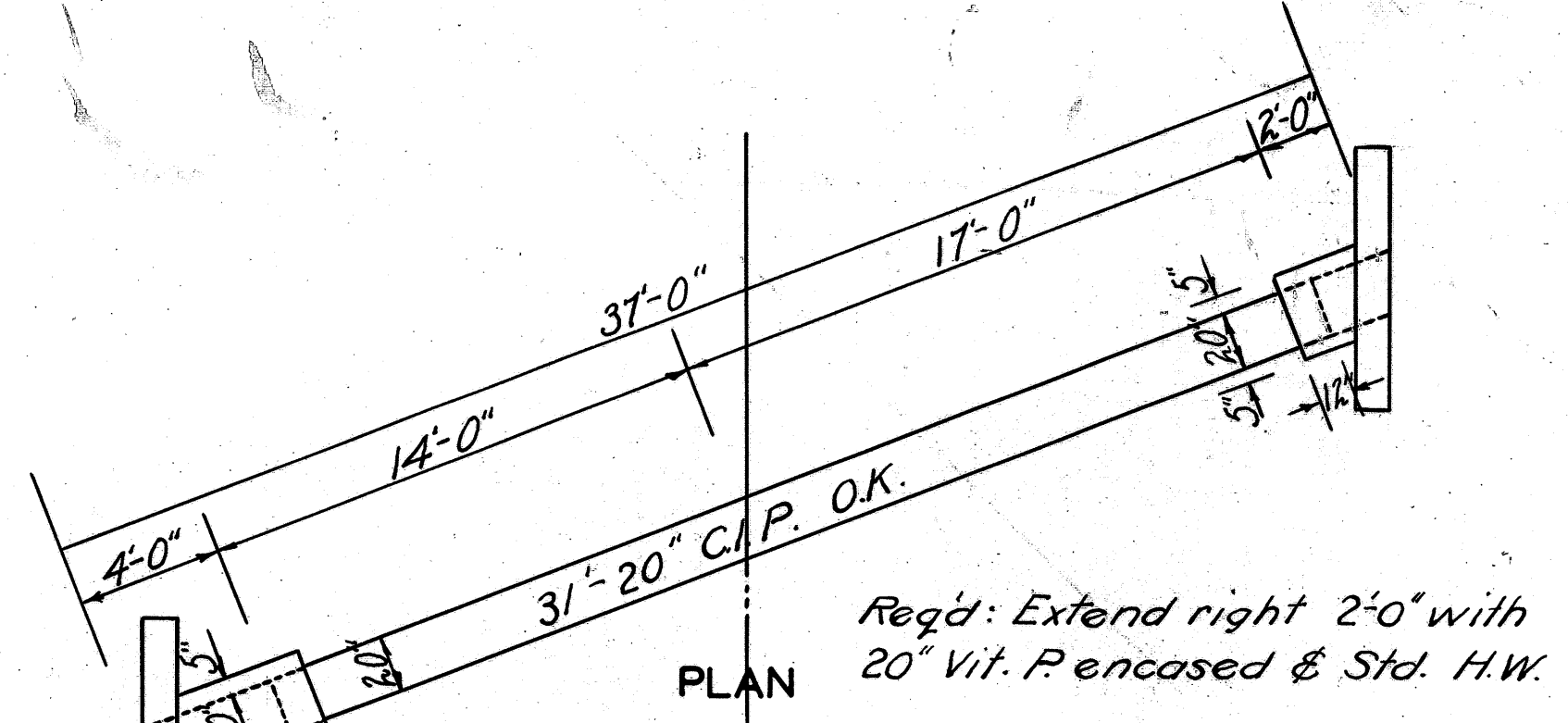
Estimated Quantities

Excava. unclass	4.0 Cu.Yds. ✓	Reqd: Extend Left 2'-0" & Right 2'-0" with 12" Vit. P. encased & Std. H.Ws.
1-5½ Conc.	2.0 Cu.Yds. ✓	
1-8 Conc.	0.5 Cu.Yds. ✓	
Reinf. Steel	65 Lbs. ✓	Sec. F. 2
12" Vit. Pipe	4 Lin.Ft. ✓	

NO. 23
STA. 299+47

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		64 78

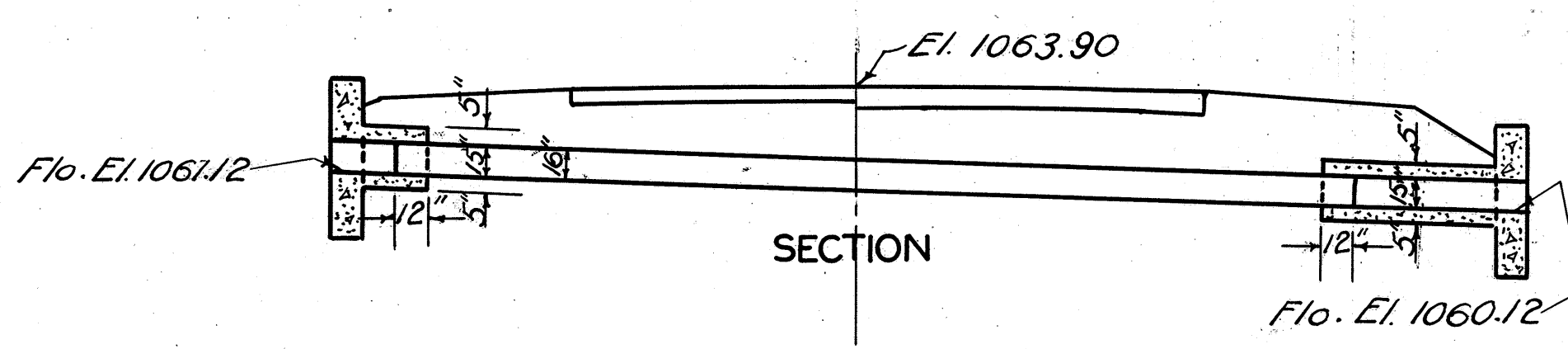
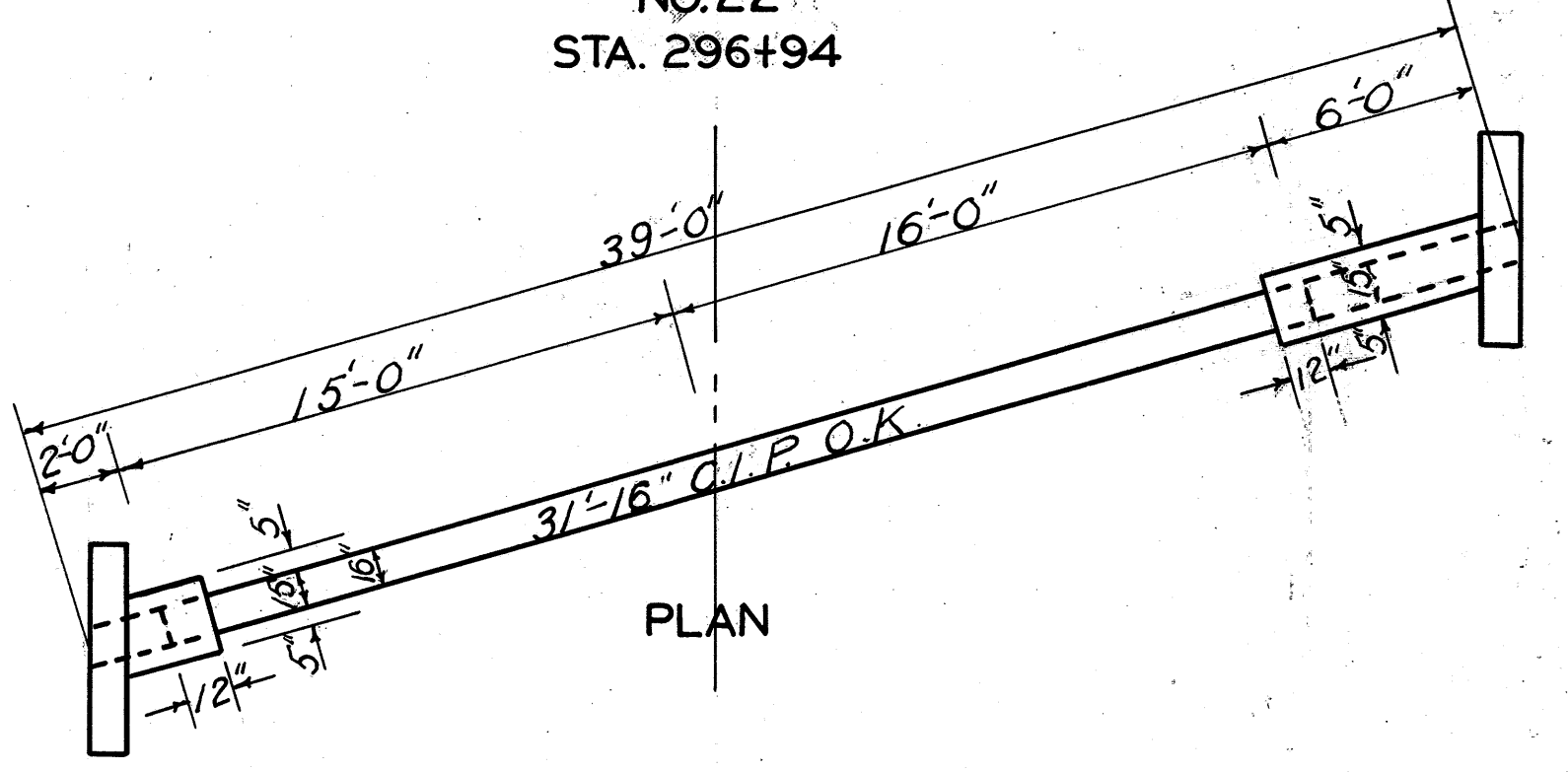
S.H. (I.C.H.) 553 SEC. F1, F2, G2
MEDINA COUNTY F.E.



Estimated Quantities

Excava. unclass.	6 Cu. Yds. ✓	Reqd: Extend Left 4'-0" & Right 2'-0" with 20" Vit. P. encased & Std. H.Ws.
1-5½ Conc.	3.0 Cu. Yds. ✓	
1-8 Conc.	1.1 Cu. Yds. ✓	
Reinf. Steel	85 Lbs. ✓	Sec. F. 2
20" Vit. Pipe	6 Lin. Ft. ✓	

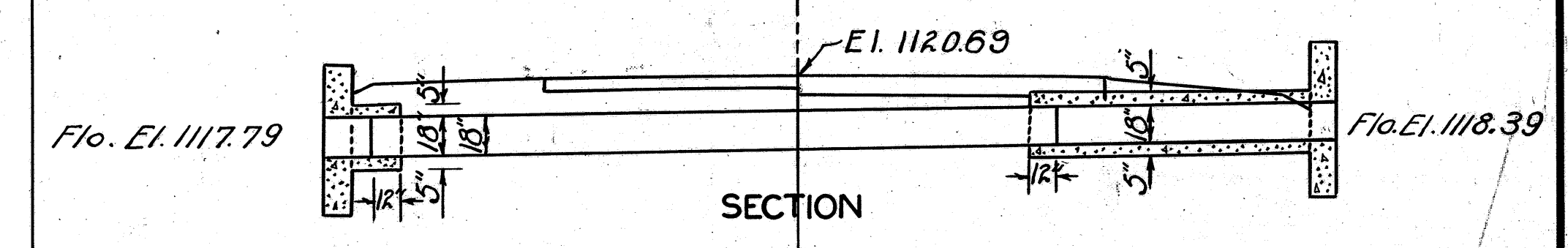
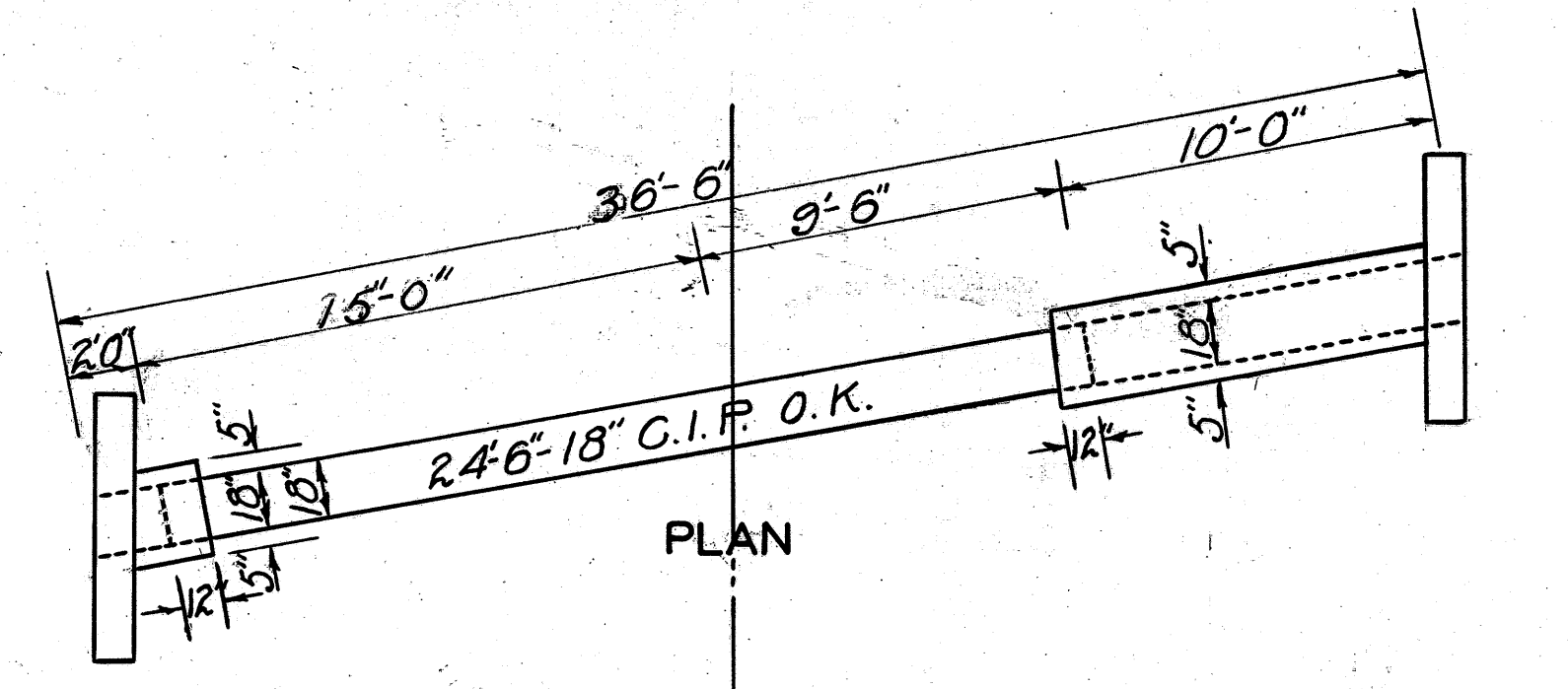
NO. 22
STA. 296+94



Estimated Quantities

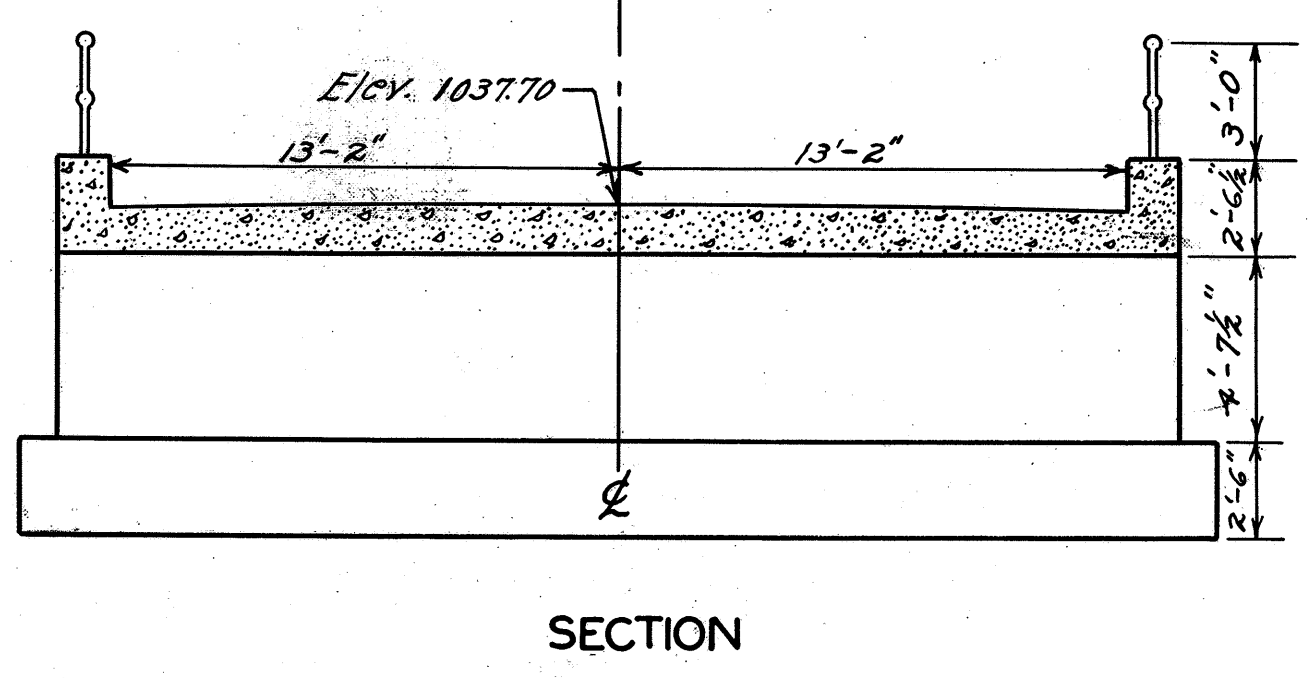
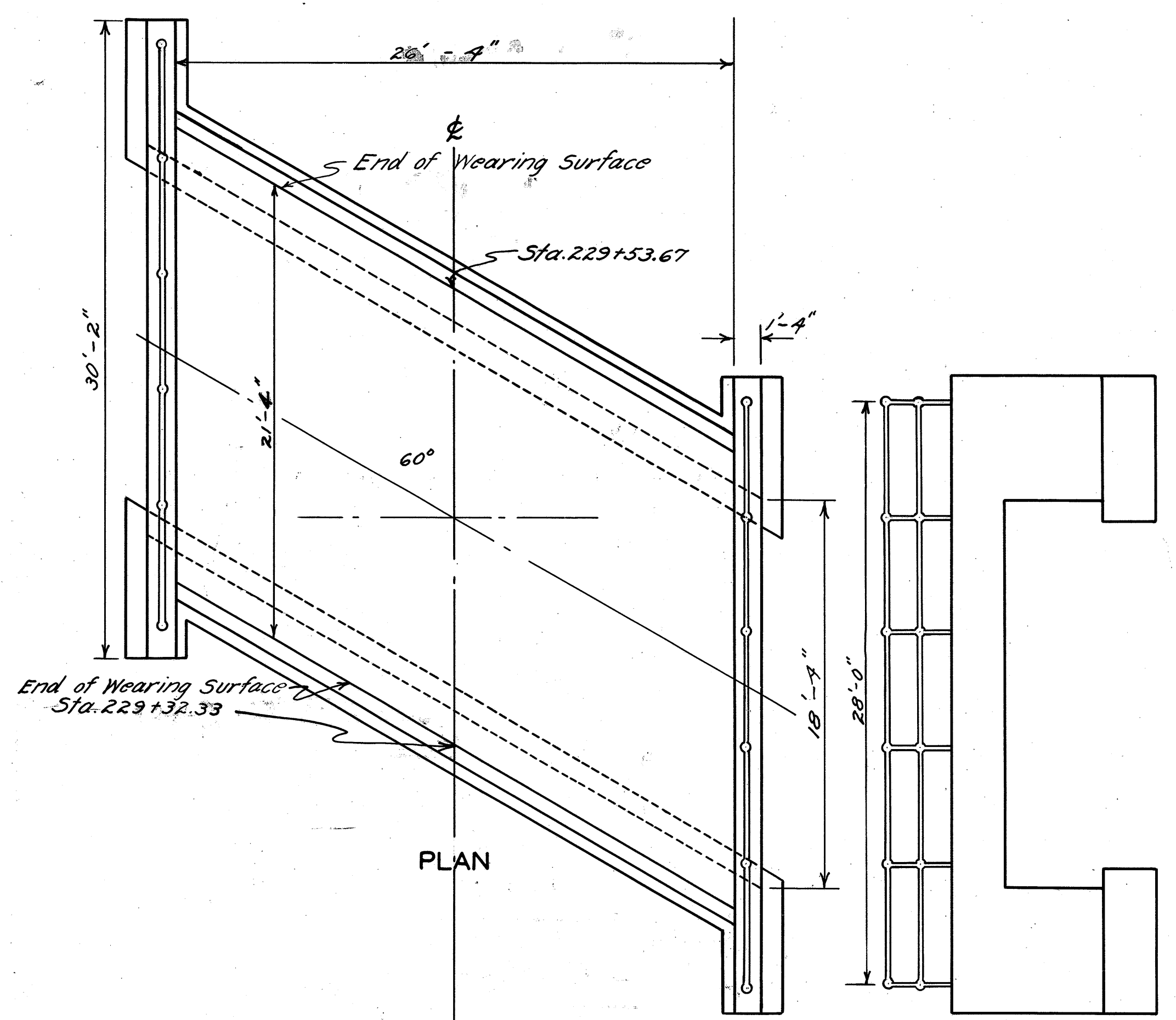
Excava. unclass.	5 Cu.Yds. ✓	Reqd: Extend Left 2'-0" & Right 6'-0" with 15" Vit. P. encased & Std. H.Ws.
1-5½ Conc.	2.3 Cu.Yds. ✓	
1-8 Conc.	11.0 Cu.Yds. ✓	
Reinf. Steel	70 Lbs. ✓	Sec. F. 2
15" Vit. Pipe	8 Lin.Ft. ✓	

NO. 26
STA. 327+93



Estimated Quantities

Excava. unclass.	6 Cu.Yds. ✓	Reqd: Extend Left 2'-0" & Right 10'-0" with 18" Vit. P. encased & Std. H.Ws;
18" Vit. Pipe removed	4 Lin. Ft. ✓	4'-0" 18" Vit. P. removed.
1-5½ Conc.	2.7 Cu.Yds. ✓	Sec. F. 2
1-8 Conc.	1.9 Cu.Yds. ✓	
Reinf. Steel	80 Lbs. ✓	
18" Vit. Pipe	12 Lin. Ft. ✓	



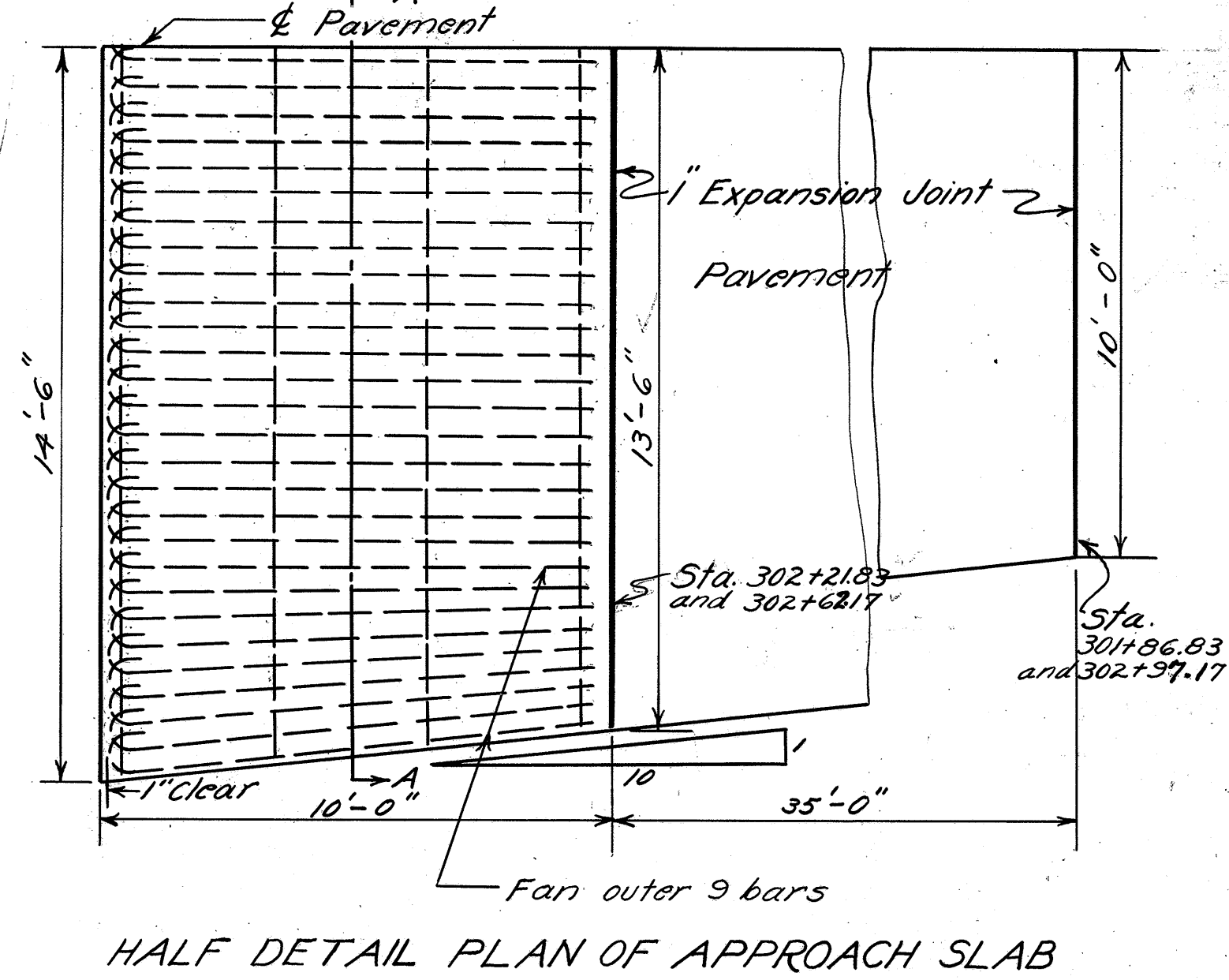
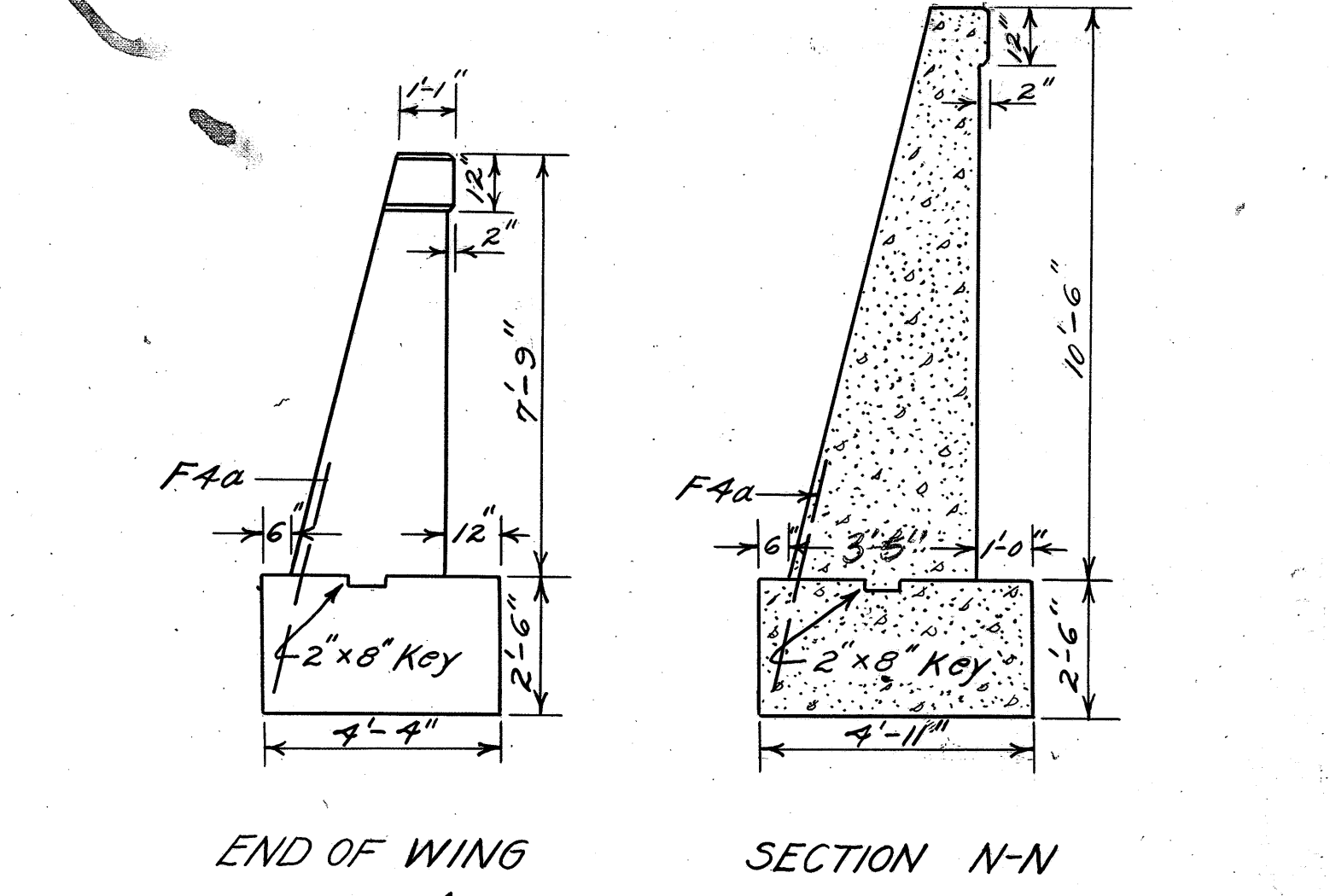
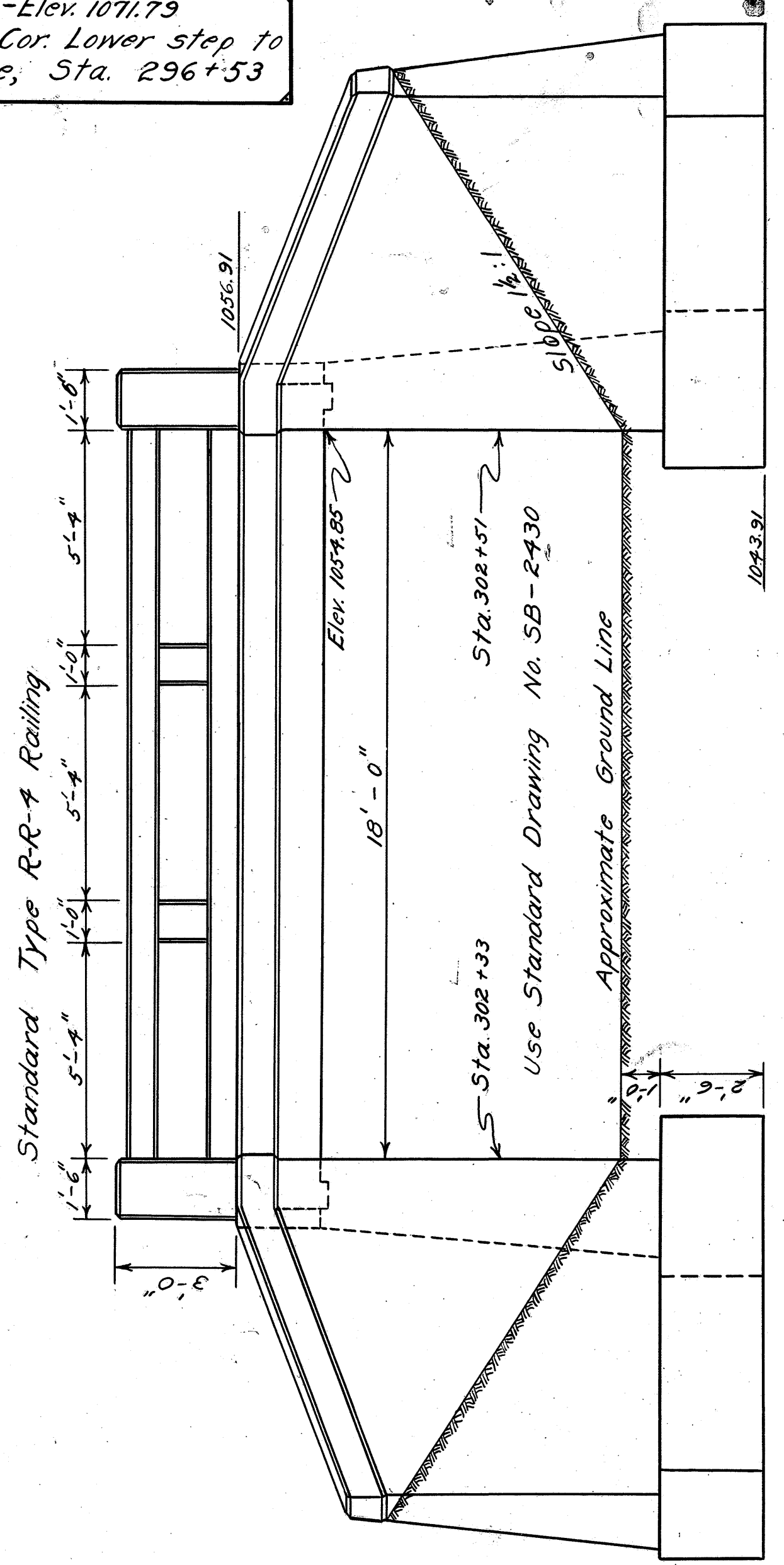
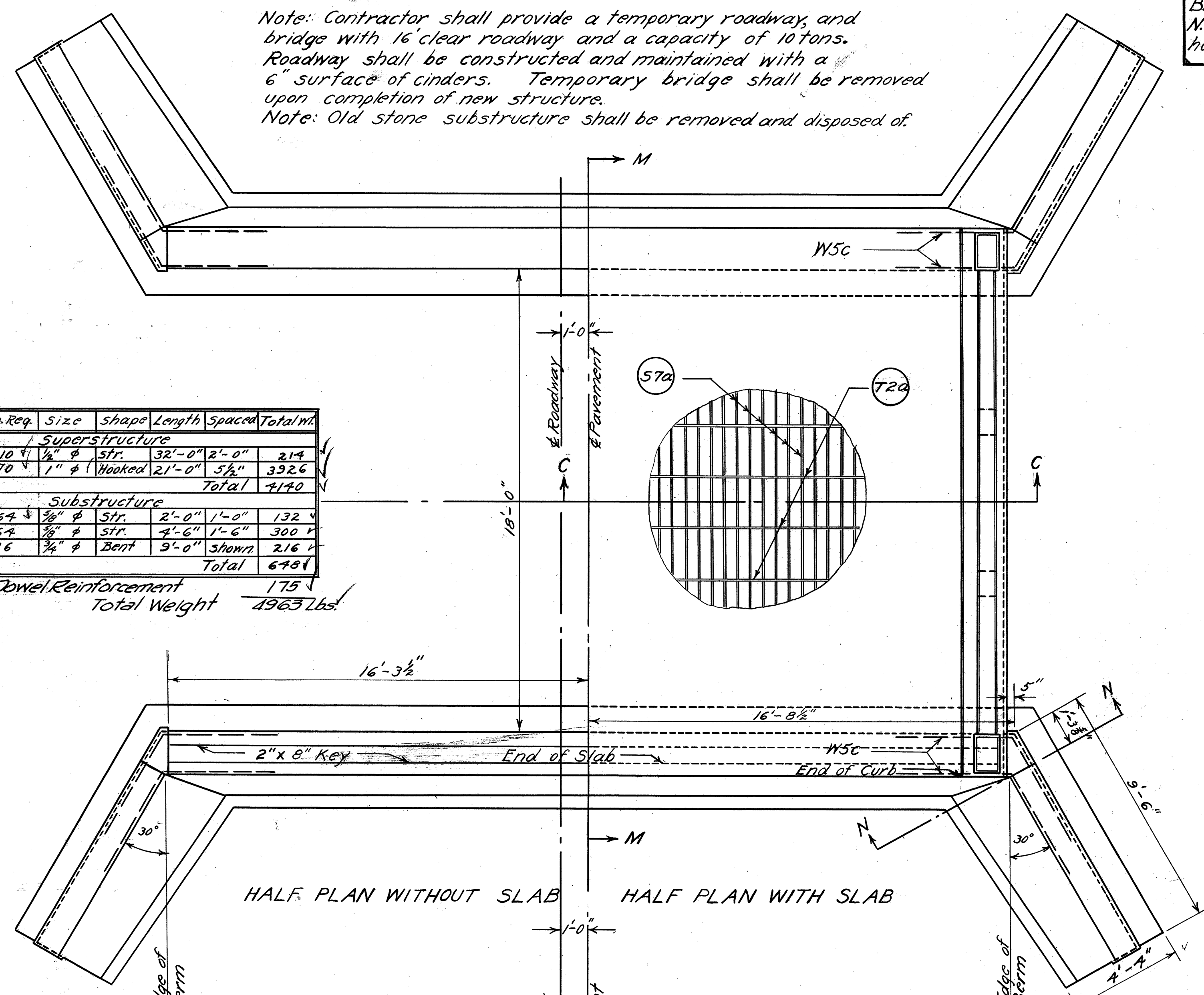
NO WORK REQUIRED.

BR. NO. 18
STA. 229+43

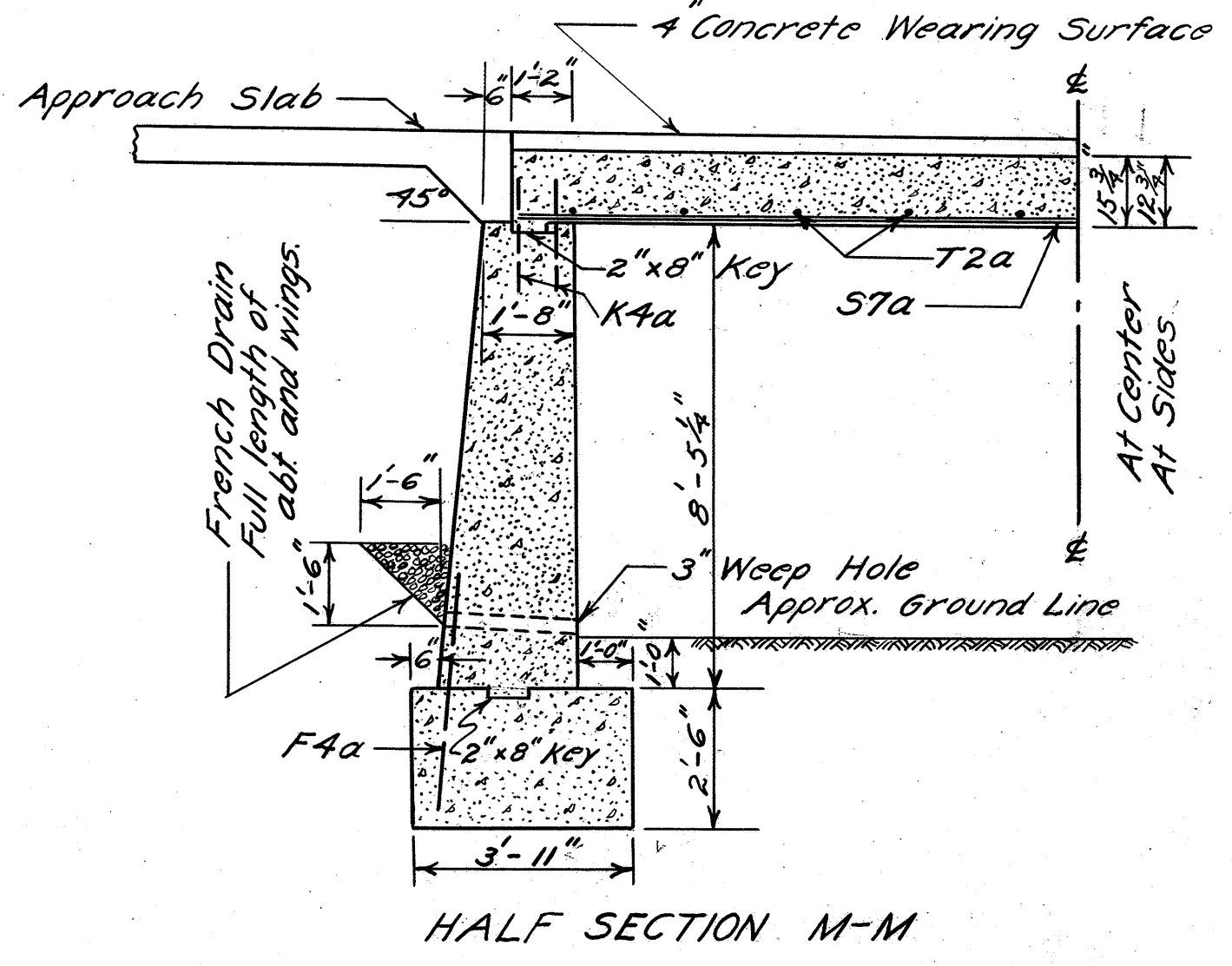
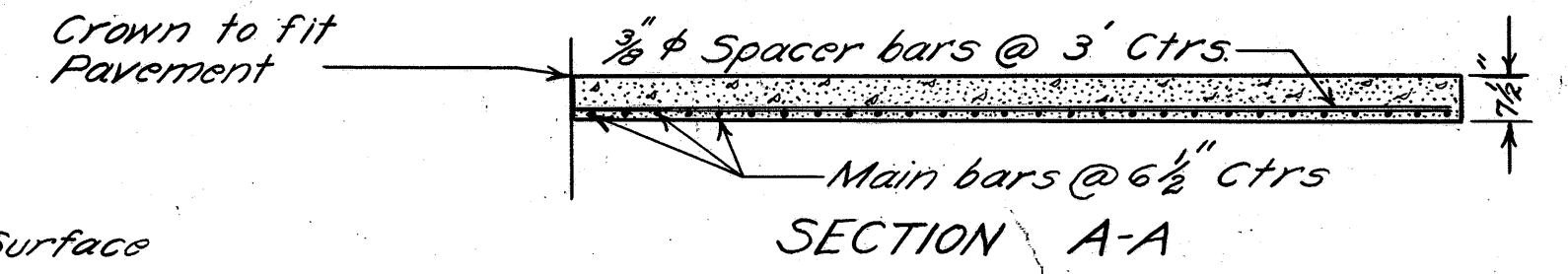
Note: Contractor shall provide a temporary roadway and bridge with 16' clear roadway and a capacity of 10 tons. Roadway shall be constructed and maintained with a 6" surface of cinders. Temporary bridge shall be removed upon completion of new structure. Note: Old stone substructure shall be removed and disposed of.

B.M. - Elev. 1071.79
N.E. Cor. Lower step to house, Sta. 296+53

Mark	No. Req.	Size	Shape	Length	Spaced	Total Wt.
Superstructure						
T2a	10	1/2" φ	Str.	32'-0"	2'-0"	214
S7a	70	1" φ	Hooked	21'-0"	5 1/2"	3926
Total						4140
Substructure						
K4a	64	3/8" φ	Str.	2'-0"	1'-0"	132
F4a	64	3/8" φ	Str.	2'-6"	1'-6"	300
W5c	16	3/4" φ	Bent	9'-0"	Shown	216
Total						648
RR-1 Dowel Reinforcement						175
Total Weight						4963 lbs.



Note: Payment for French Drains is included with the excavation. Concrete and reinforcing steel in railing are estimated as lineal feet of railing.



ESTIMATED QUANTITIES

Remove old Superstructure	1 pc.
Excavation Unclassified	145 Cu. Yds. ✓
Old Masonry Removed	41.7 Cu. Yds. ✓
1-6 1/2 Concrete, Walls and Wings	67.4 Cu. Yds. ✓
1-6 1/2 Concrete, Footers	38.8 Cu. Yds. ✓
1-5 1/2 Concrete, Slab and Curb	32.3 Cu. Yds. ✓
Reinf. Steel	4963 Lbs.
4" Concrete Wearing Surface	65.6 Sq. Yds.
Type R-R-1 Railing	42 Lin. Ft. ✓
Approach Slab	62.2 Sq. Yds. ✓

MED-94-0969

S.H. ICH. 553-F
BRIDGE NO 24
SLAB
18' SPAN
30' ROADWAY
STATION 302+42

SUMMARY OF QUANTITIES FOR BRIDGES AND CULVERTS

FED. RD. DIST. NO.	STATE	FED. AID. PROJ. NO.	FISCAL YEAR
10	OHIO		76 78

S.H. (I.C.H.) 553 Sec. F₁, F₂, G₂.
MEDINA COUNTY

Section	Sheet	No. Station	Type	Size	Length	Excava- tion Cu. Yds.	Masonry Rem'd. Cu. Yds.	Concrete				Reinf. Steel Lbs.	New Vit. Pipe Req'd.					Vit. P. Rem'd.				C.I.P. Rem'd.			Struct. Rem'd. No.	4" Wearing Surface Sq. Yds.	Type R-R4 Railing Lin. Ft.	Approach Slab Sq. Yds.	Catch Basins No.						
								1-5 1/2	1-6 1/2	1-6 1/2	1-8		12"	15"	18"	20"	24"	12"	15"	18"	24"	12"	15"	16"											
G-2	✓ 14	179+64.5	Pipe	24"	69'-0"	5 ✓	0.2 ✓	3.8 ✓																											
"	✓ 15	190+03	Slab	13'-6" span	24' Rdwy.																														
"	✓ 16	197+58	Pipe	12"	45'-0"	4 ✓		2.0 ✓																											
"	✓ 18	229+43	Slab	18'-6" span	26.4' Rdwy.																														
Total						9 ✓	0.2 ✓	5.8 ✓																											
F-2	✓ 19	263+98	Pipe	12"	36'-0"	6 ✓		2.0 ✓																											
"	✓ 20	275+29	"	12"	37'-0"	6 ✓		2.0 ✓																											
"	✓ 21	287+47	"	12"	35'-0"	4 ✓		2.0 ✓																											
"	✓ 22	296+94	"	15'-16"	39'-0"	5 ✓		2.3 ✓																											
"	✓ 23	299+47	"	20"	37'-0"	6 ✓		3.0 ✓																											
"	✓ 24	302+42	Slab	18'-0" span	30' Rdwy.	14.5 ✓	41.7 ✓	32.3 ✓	38.8 ✓	67.4 ✓	1.1 ✓	85 ✓			6' ✓																				
"	✓ 25	313+64.5	Pipe	18"	38'-0"	13 ✓		3.3 ✓																											
"	✓ 26	327+93	"	18"	36'-6"	6 ✓		2.7 ✓																											
"	✓ 27	337+17	"	24"	40'-0"	13 ✓		3.2 ✓																											
"	✓ 28	354+87	"	18"	39'-0"	6 ✓		2.7 ✓																											
"	✓ 29	370+32	"	18"	44'-0"	8 ✓		2.7 ✓																											
"	✓ 30	374+79	"	12"	40'-0"	7 ✓		2.0 ✓																											
"	✓ 31	377+14	"	14'-15"	43'-0"	9 ✓		2.3 ✓																											
Total						234 ✓	41.7 ✓	62.5 ✓	38.8 ✓	67.4 ✓	21.5 ✓	584.3 ✓	44 ✓	20 ✓	12 ✓	6 ✓	10 ✓	4 ✓	4 ✓	20 ✓	4 ✓	1 ✓	24 ✓	1 ✓	65.6 ✓	42 ✓	62.2 ✓	1 ✓							

SUMMARY OF EXCAVATION

STATIONS FROM TO	EXCAV. Cu. Yds.	EMB. Cu. Yds.	+20% Cu. Yds.	WASTE Cu. Yds.	Borrow Cu. Yds.	REMARKS
179+54.4	190+00	368.9	419.8	503.8	134.9	
190+00	200+00	656.5	351.0	421.1	235.4	2414.2 Cu. Yds. Borrow
200+00	210+00	680.6	161.8	194.2	486.4	-121.8 " " Waste
210+00	220+00	300.8	1091.7	1310.1	1009.3	1692.4
220+00	230+00	205.3	758.4	910.1	704.8	-700.0 Waste Sec. F1
230+00	242+50	587.1	960.3	1152.3	565.2	992.4 Borrow the Contractor is to be paid for.
TOTALS "G1"	2799.2	3743.0	4491.6	721.8	2414.2	
242+50	248+50	700.0			700.0	Estimated
TOTALS "F1"	700.0			700.0		Waste on Sec. "G2"
248+50	260+00	763.6	267.8	321.4	442.2	
260+00	270+00	709.1	278.0	333.5	375.6	
270+00	280+00	715.8	296.2	355.4	360.4	
280+00	290+00	412.8	859.3	1031.1		618.3
290+00	300+00	634.3	714.8	857.8		223.5
300+00	310+00	343.5	464.0	556.7		213.2
310+00	320+00	718.4	446.3	535.5	182.9	
320+00	330+00	317.7	823.1	987.7		670.0
330+00	340+00	291.8	1252.2	1502.6		1210.8
340+00	350+00	514.9	853.8	1024.6		509.7
350+00	360+00	1091.8	422.2	506.6		585.2
360+00	370+00	1378.8	575.8	691.0		687.8
370+00	380+14.1	889.9	369.4	443.4		446.5
TOTALS "F2"	8782.4	7622.9	9147.3	3080.6	3445.5	3445.5 Cu. Yds. Borrow 3080.6 " " Waste 364.9 Cu. Yds. Borrow Contractor is to be paid for.

SUMMARY OF GUARD RAIL

Stations From To	Lineal Feet	Side
215+00	219+40	440 R ✓
215+00	219+40	440 L ✓
219+78	221+70	192 L ✓
219+78	229+30	952 R ✓
229+60	231+60	200 L ✓
229+56	231+16	160 R ✓
Total Sec. "G2"	2504	
301+26	302+30	104 L ✓
302+54	303+50	96 L ✓
301+74	302+30	56 R ✓
302+54	303+02	48 R ✓
336+60	338+04	144 L ✓
Total Sec. "F2"	448	
228+10	229+30	120 L ✓

CALCULATIONS FOR SEC. "F2"

Stations From To	Concrete 9" x 7" x 9"	Comb. Curb & Gutter	6" Conc. Remid. 9" Wide	Deductions	Remarks
	9' Wide Lin. Ft.	11' Wide Lin. Ft.	20' Wide Lin. Ft.	Extra Sq. Yds.	
248+50	301+86.83				Regular
301+86.83	302+21.83			35 ✓	13.6 ✓
302+21.83	302+62.17				
302+62.17	302+97.17			35 ✓	13.6 ✓
302+97.17	379+74.6				7677.43 ✓
379+74.6	380+14.1			1.1	
248+74	248+96	22			22
252+48	253+18	70			70
254+60	255+00	40			40
255+27	255+43	16			16
275+15	275+55	40			40
275+98	276+24	26			26
277+77	278+35	58			58
297+06	298+40	134			134
298+91	299+45	54			54
301+86.83	302+31				44.17
302+53	302+96.17				43.17
304+54	304+75	21			21
310+70	310+95	25			25
313+60	313+70	10			10
351+32	351+42	10			10
352+11	352+32	21			21
357+35	357+80	45			45
358+44	358+62	18			18
359+06	359+24	18			18
366+59	366+74	15			15
366+90	367+00	10			10
367+26	367+57	31			31
371+50	372+60	110			110
372+98	373+05	7			7
279+50	296+90				1740 ✓
299+50	296+90				1740 ✓
318+00	348+60				3060 ✓
318+00	348+60				3060 ✓
Totals	801	13014.26	70	28.3	9600
Sq. Ft.	9) 7209	9) 143156.86	9) 1400		9) 7995.06
Sq. Yds.	801.0	15906.3	155.5		888.34
	15906.3				888.34
	155.5				888.34
	28.3				888.34
	16891.1				888.34
	70 Lin. Ft. Ctr. Joint No. 98 or 100				888.34
					79.84-20=59.84 Net
					380+14.1 End Sec. F2
					248+50 Beg. Sec. F2
					1316.4 Lin. Ft.
					57.8 Deductions
					1310.43 = Lin. Ft. Shoulders Slopes & Ditches

SUMMARY OF PIPE & CATCH BASINS SEC. "F2"

Stations From To	Vitrified Sewer Pipe	Corrugated I.P.	No. 2 Inlets	No. 2 C.B.	Side
	8" 10" 12" 15"	8" 10" 12" 20"			
248+50	253+00				L
248+50	255+00				R
250+16					L
250+22					R
255+00					L
258+50					R
255+00	262+32	732 ✓			R
254+69			20 ✓		L
255+73			20 ✓		L
262+24			20 ✓		L
266+70			20 ✓		R
268+33			20 ✓		L
268+93			20 ✓		R
269+48			20 ✓		L
276+84	278+84	200 ✓			L
284+00	287+40	340 ✓			R
284+00	287+40	340 ✓			L
284+00			2 ✓		R+L
287+40			2 ✓		R+L
292+00	296+90	490 ✓			R
292+00	296+90	490 ✓			L
292+00			2 ✓		R+L
299+65			20 ✓		L
299+65			20 ✓		R
305+34			20 ✓		R
305+38			20 ✓		L
318+00	321+00	300 ✓			R
318+00	321+00	300 ✓			L
321+00			2 ✓		R+L
321+00	324+00	300 ✓			R
321+00	324+00	300 ✓			L
324+00			2 ✓		R+L
328+00	331+00	300 ✓			R
328+00	331+00	300 ✓			L
328+00			2 ✓		R+L
331+00			2 ✓		R+L
331+00	334+00	300 ✓			R
331+00	334+00	300 ✓			L
334+00			2 ✓		R+L
337+22			2 ✓		R+L
337+22	340+10	288 ✓			R
337+22	340+10	288 ✓			L
340+10			2 ✓		R+L
340+10	346+00	590 ✓			R
340+10	346+00	590 ✓			L
343+00			2 ✓		R+L
346+00			2 ✓		R+L
346+00	348+60	260 ✓			L
346+00	348+60	260 ✓			R
350+70			20 ✓		R
353+37	357+10.9	172 ✓			L
Totals Sec. "F2"	1104	1480	2380	576	120

SUMMARY OF LOOSE STONE OR SLAG

Stations From To	Tons Stone or Slag	Side
	No. 34 No. 40	
257+00	262+00	40 R
313+64.5		10 R
313+64.5		10 L
Totals Sec. "F2"	20	40

SUMMARY OF PIPE & CATCH BASINS SEC. "G2"

Stations From To	Vit. Sewer Pipe	Corr. I.P.	No. 2 Inlets	No. 2 C.B.	1-8 Conc.	Side
	10" 12" 15"	8" 10" 12"				
196+10						R
200+68						L
202+65						R
203+12						L
206+48						L
207+51						R
207+60	209+00	140 ✓				R
207+60	209+00	140 ✓				L
208+20						L
209+00	Across	22 ✓				R+L
209+01	209+31	30 ✓				R
209+32	Across	22 ✓				R+L
209+00	East	750 ✓				R
209+60						L
210+52						R
212+00						R
213+04						R
212+79						L
231+40	236+30	490 ✓				R
236+30	242+50	620 ✓				R
237+54	242+50	496 ✓				L
233+80						R
236+30						R
237+54						L
239+40						R
241+70						L
Totals Sec. "G2"	280	1190	1240	80	40	100

CALCULATIONS SEC. "G2"

Stations From To	Conc. Pav. 12" Wide	Comb. Curb & Gutter	Deductions	Remarks
	Lin. Ft.	Lin. Ft.	Lin. Ft.	
179+54.4	219+50	3995.6 ✓		Bdg. No. 15
219+50	219+80		30 ✓	Bdg. No. 17
219+80	229+32.33	952.33 ✓		Regular
229+32.33	229+53.67			
229+53.67	242+50	1296.33 ✓		Regular
207+60	210+40		280 ✓	Right side
207+60	210+40		280 ✓	Left side
231+40	242+50		1110 ✓	Right side
233+40	242+50		910 ✓	Left side
Totals	6244.26	2580	67.26	15.92
	9) 6244.26			
Sq. Yds. Conc. Pav.	6938.1 ✓			
Lin. Ft. Comb. Curb & Gutter				
				242+50 End Sec. "G2"
				179+54.4 Beg. Sec. "G2"
				629.6 Lin. Ft.
				51.3 Deductions
				1310.43 = Lin. Ft. Shoulders Slopes & Ditches

Right side
 Sec. F2 - 1075
 1075

