

#6018

Fed. Aid Dist. No.	State	Fed. Aid Proj. No.	Fiscal Year
10	OHIO		1923

I.C.H. NO. 515 SECTION "A"
• SENECA COUNTY •

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
BUREAU OF CONSTRUCTION
FREMONT-REPUBLIC ROAD
I.C.H. NO. 515 SEC. A PET. NO. 4563
SENECA COUNTY
ADAMS TWP. MARCH 1923

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- CONVENTIONAL SIGNS •
- State line
 - County line
 - Township line
 - Section line
 - Property line not fenced
 - Center line
 - City or Village line
 - Fence
 - Telephone or Telegraph
 - Steam Railroad
 - Electric Railroad
 - Hedge Fence
 - Guard rails

The Standard Specifications of the State of Ohio Division of Highways in force on date of contract will govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as shown on the plans and estimates.

Approved: A. J. Baker
Date May 1, 23 Resident Engineer.

Approved: John F. Hallis
Date May 1, 23 Division Engineer.

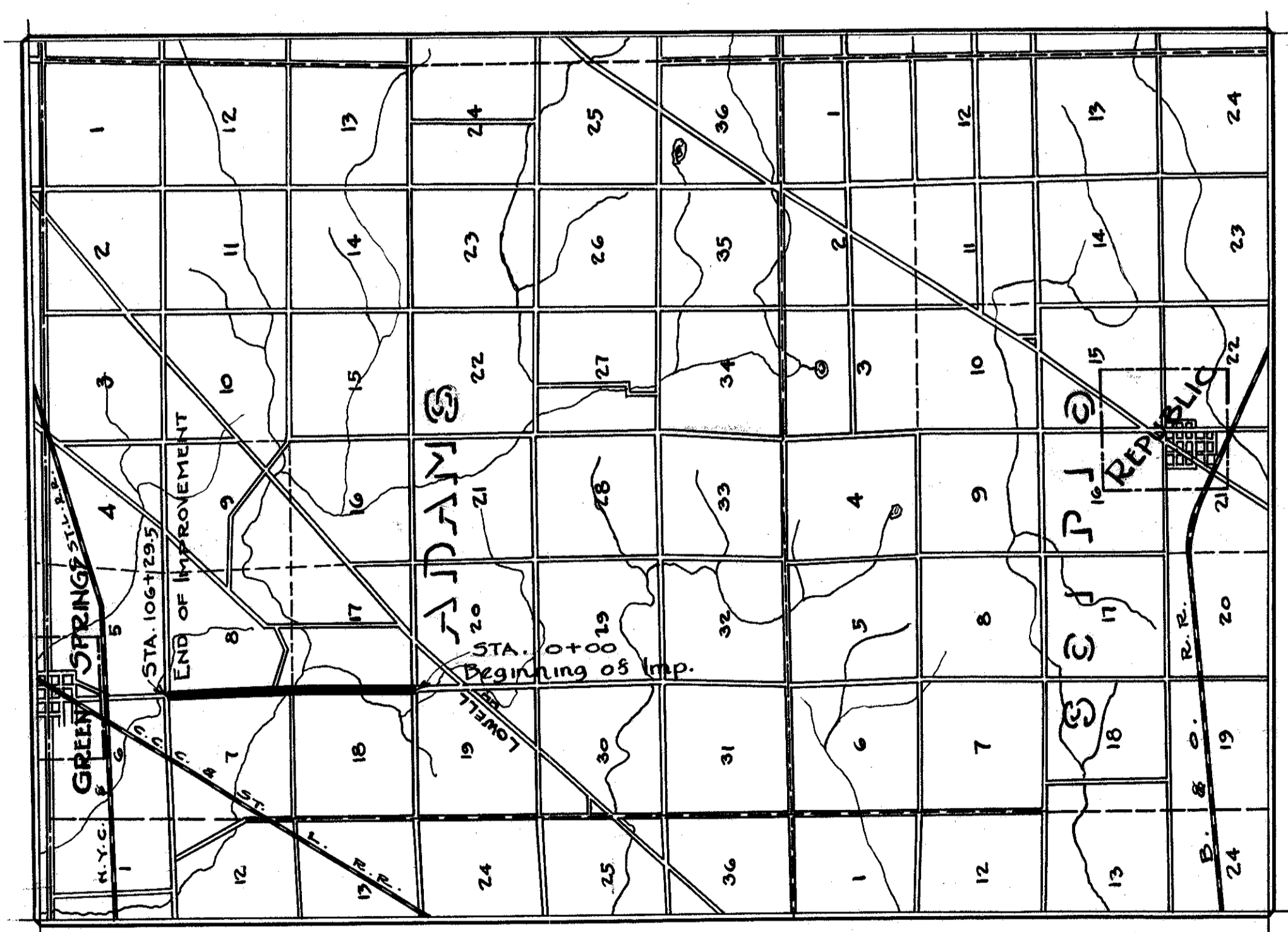
Approved: G. F. Ahlenger
Date 8/7/23 State Highway Engineer.

Approved: J. A. Boulay
Date 8/17/23 Director of Highways and Public Works.

Recommended for Approval: _____
Date, _____ Chief Engineer
Bureau of Public Roads.

Recommended for Approval: _____
Date, _____ District Engineer
Bureau of Public Roads.

Approved: _____
Date, _____ Chief of Bureau.



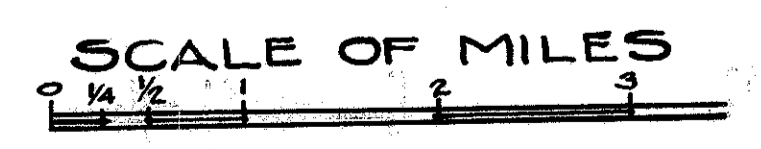
We the Commissioners of Seneca County hereby approve these plans and certify that the right-of-way 60 feet wide, is available for the construction, maintenance and repair of the above highway.

W. W. Jordan
C. L. Park
W. A. Jordan

Date May 18 23 County Commissioners.

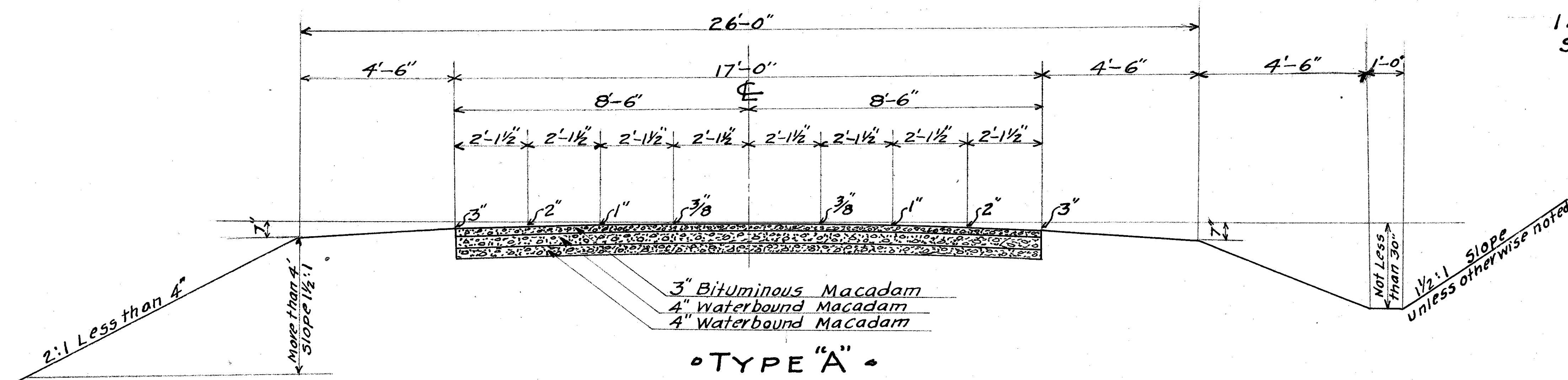
• SCALES •
 Plan 1" = 100'
 Profile (Vertical) 1" = 10'
 Profile (Horizontal) 1" = 100'
 Cross Sections 1" = 5'

LOCATION PLAN

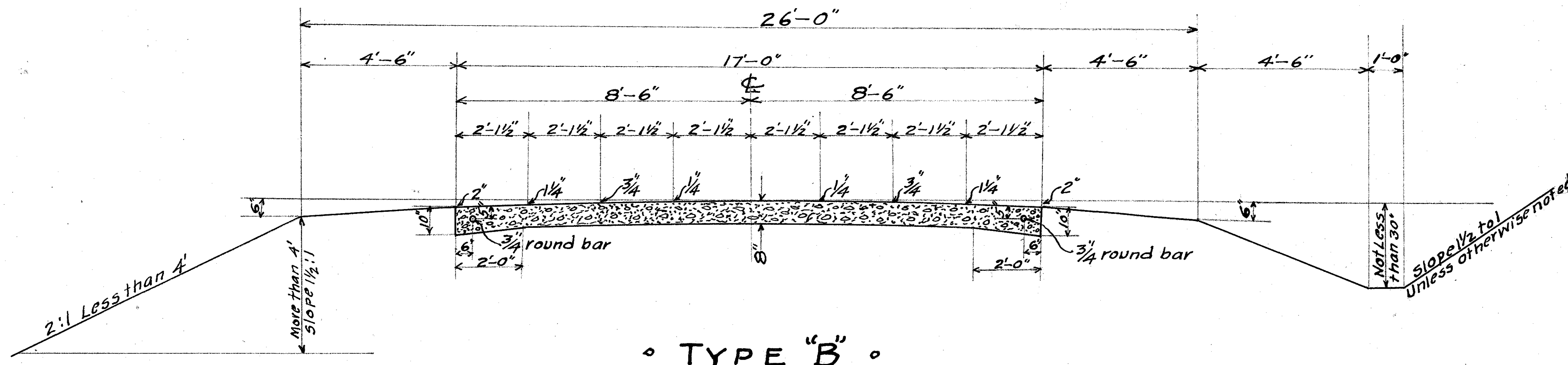


PORTION TO BE IMPROVED
 DETOURS SHOWN THUS

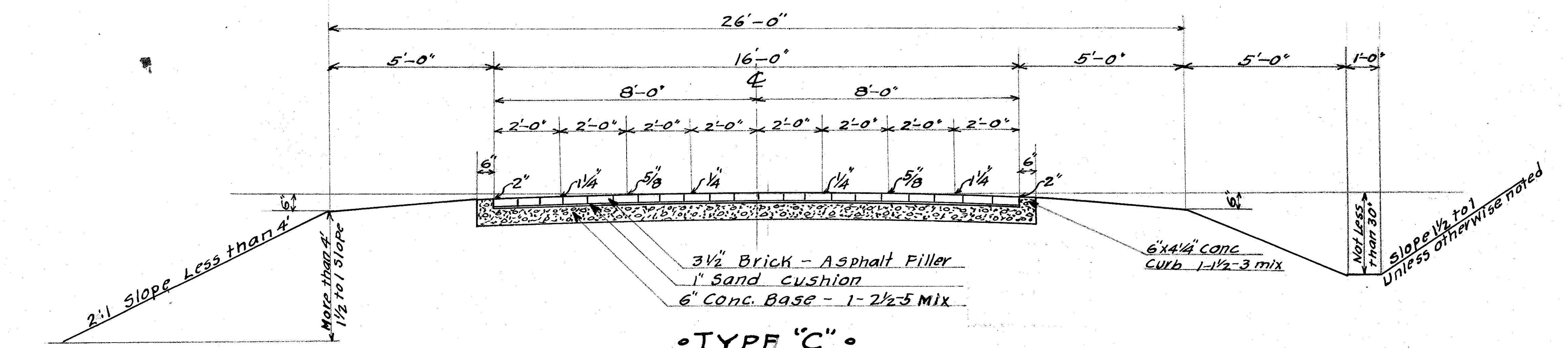




• TYPE "A" •
• TYPICAL SECTION BITUMINOUS MACADAM •



• TYPE "B" •
• TYPICAL SECTION CONCRETE PAVEMENT •

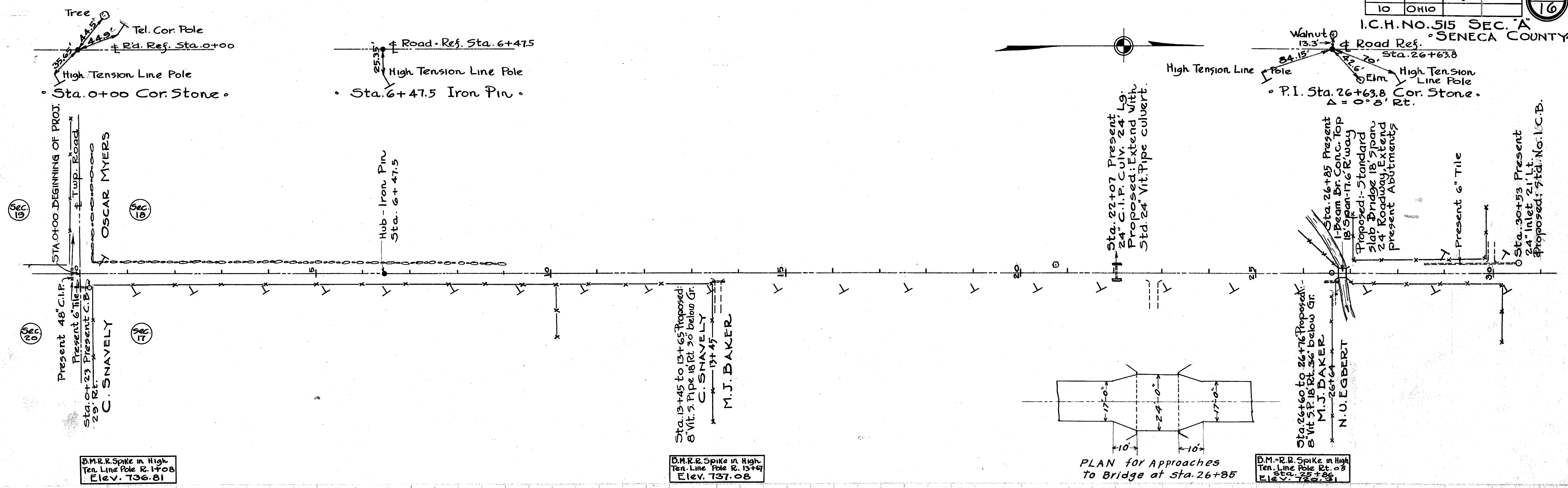


• TYPE "C" •
• HALF SECTION IN FILL • TYPICAL SECTION BRICK PAVEMENT • HALF SECTION IN CUT •

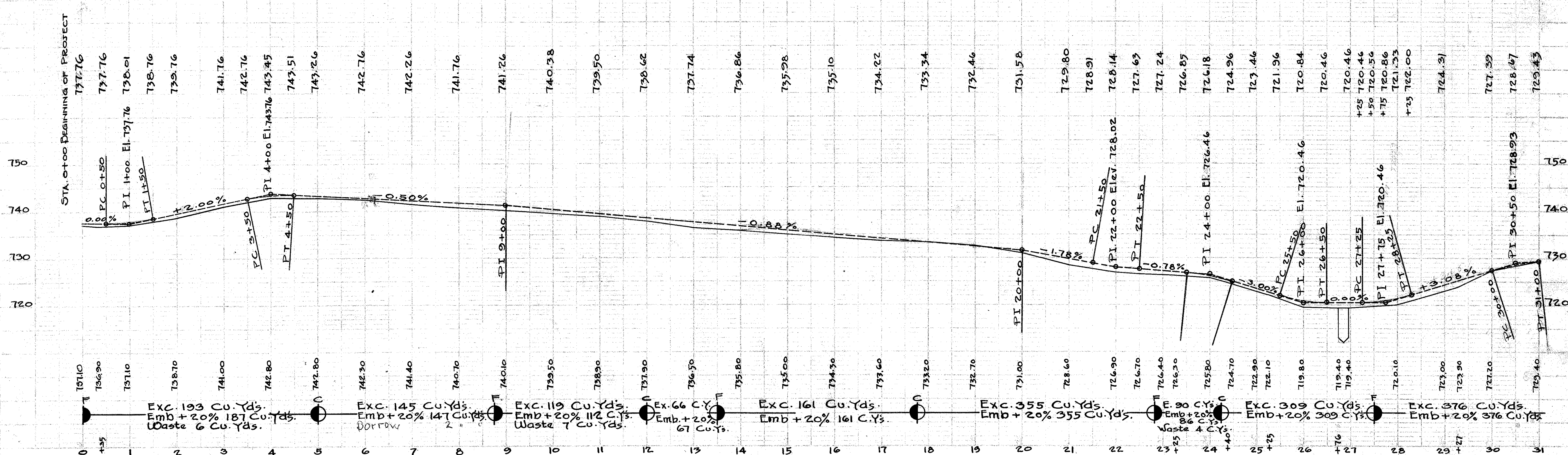
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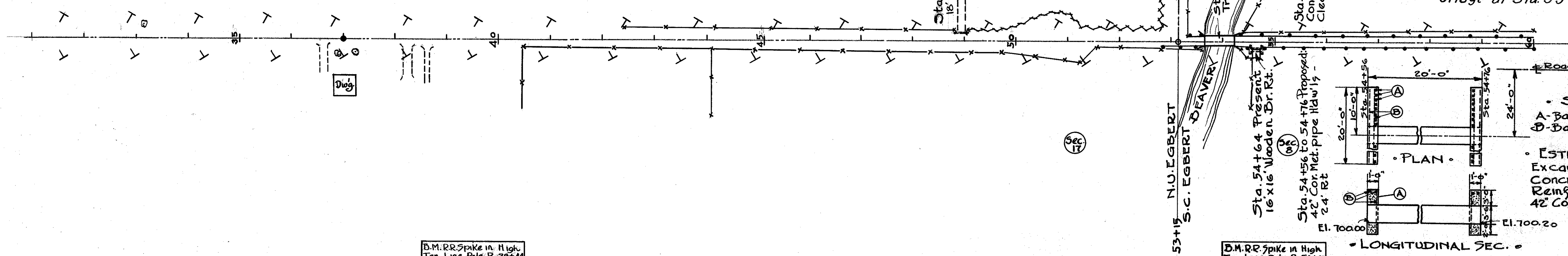
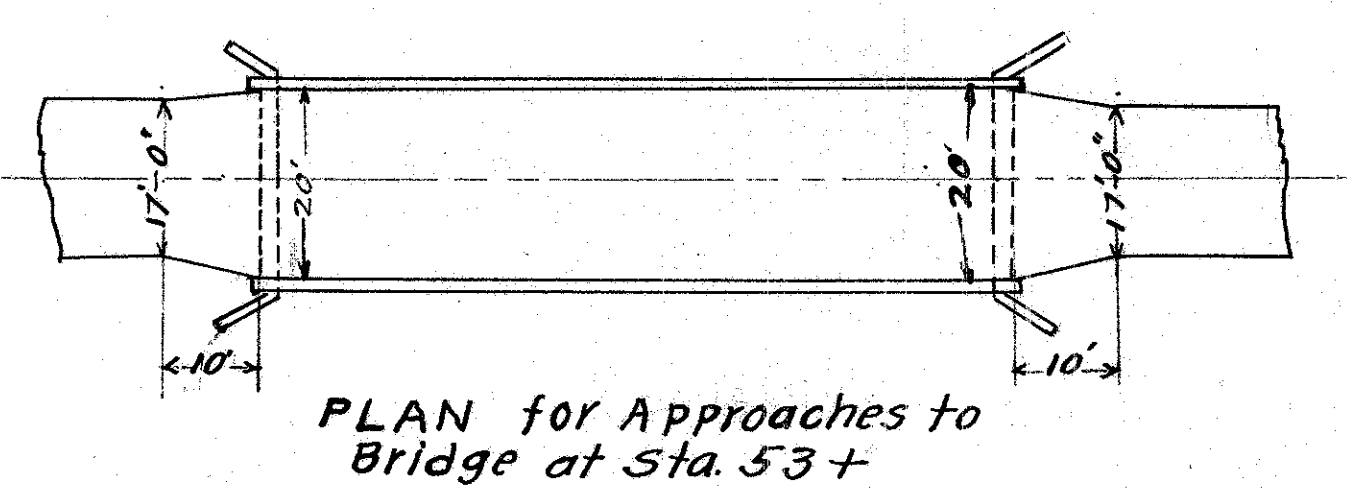
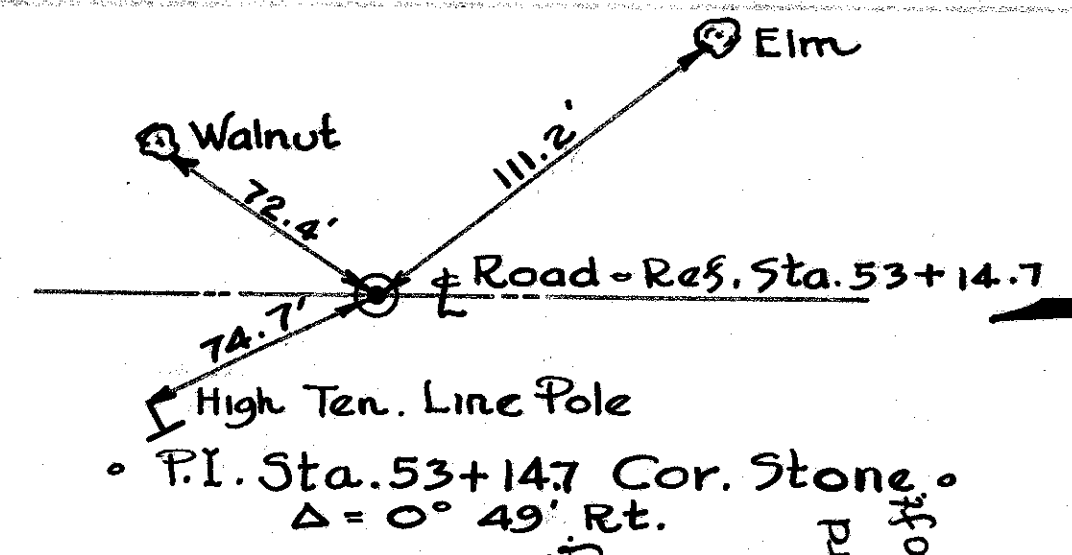
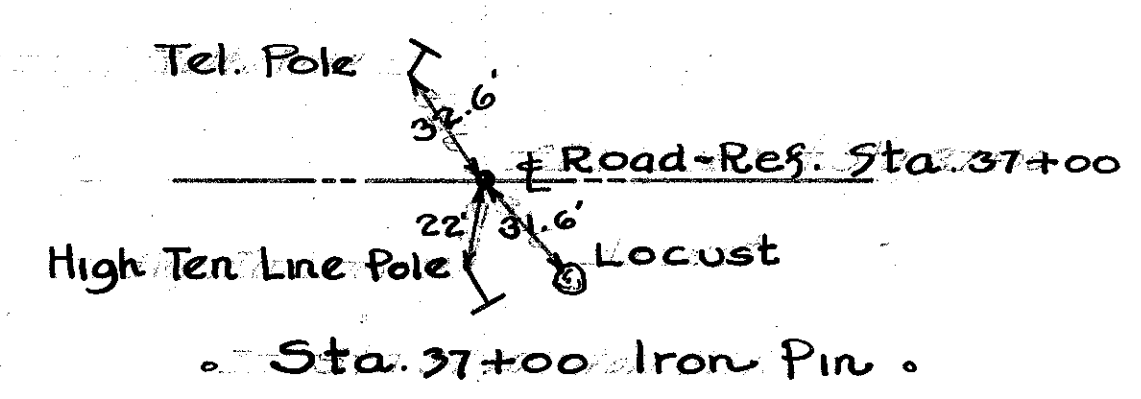
PLAN for Approaches to Bridge at sta. 26+85



D.M.R.R. Spike in High Ten Line Pole R. 1708 Elev. 736.81

D.M.R.R. Spike in High Ten Line Pole R. 1547 Elev. 737.08

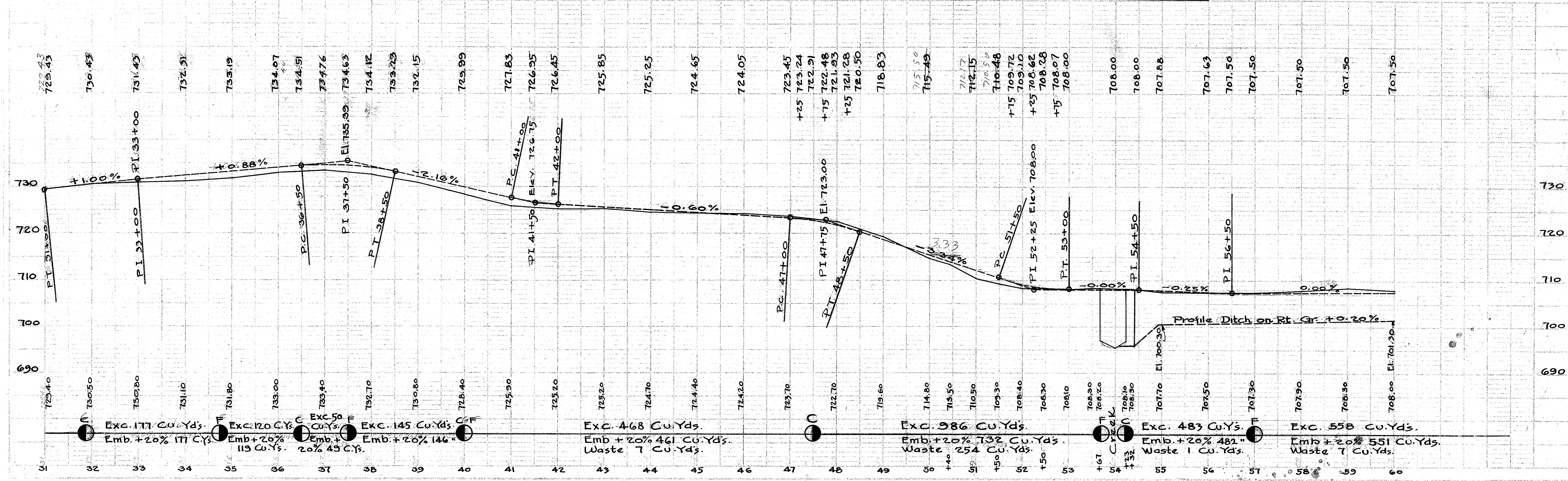
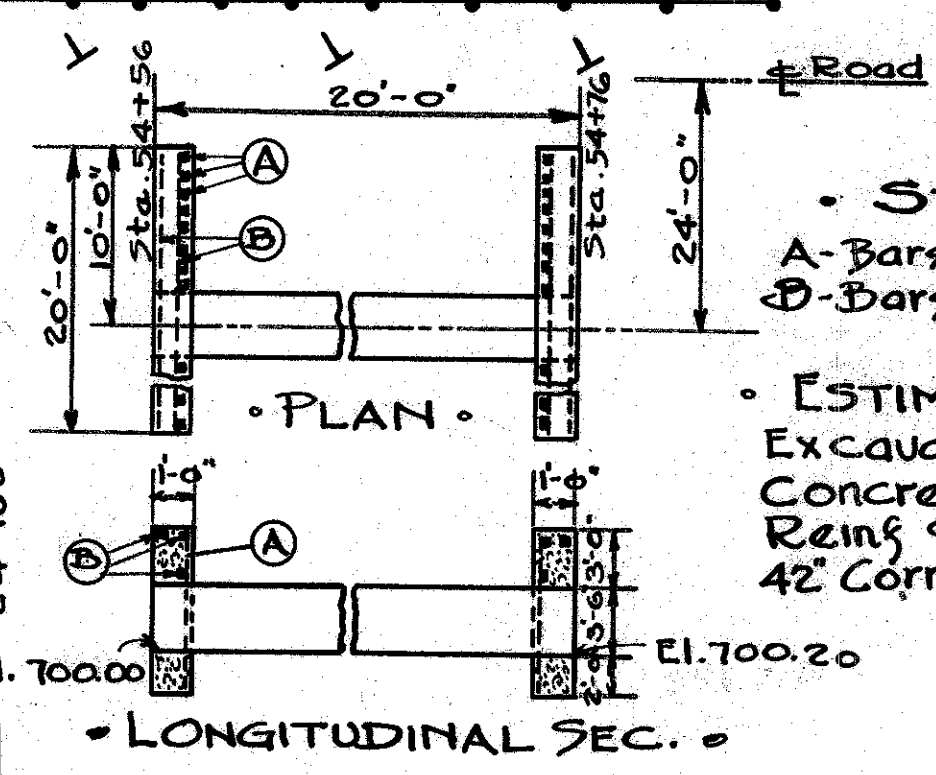
D.M.R.R. Spike in High Ten Line Pole R. 1547 Elev. 720.31

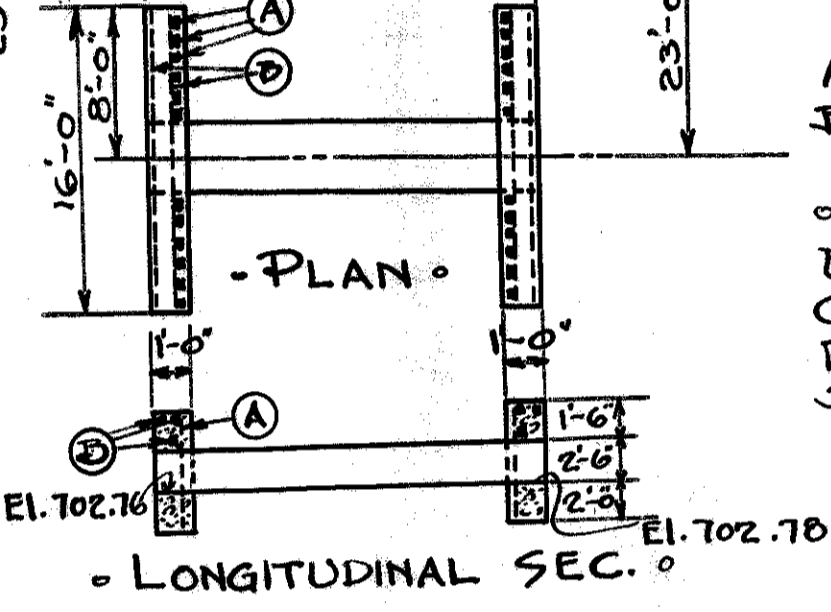
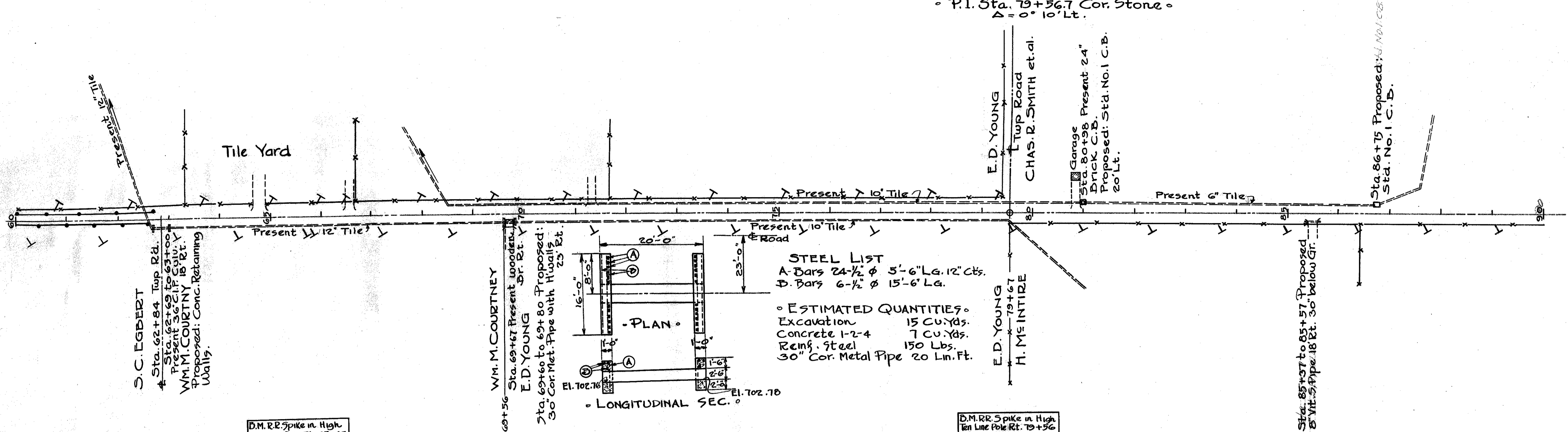
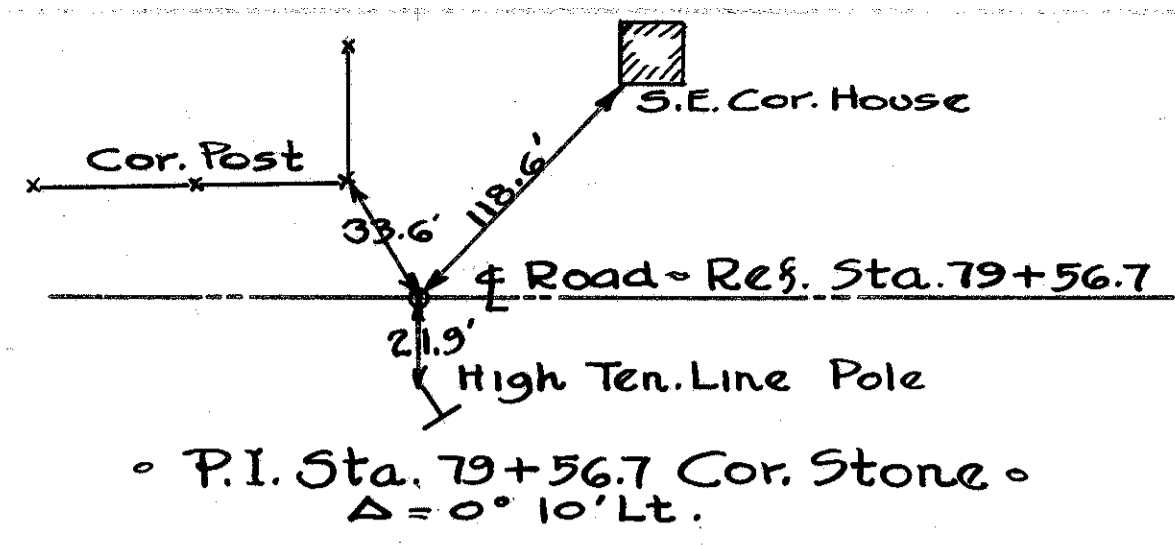


B.M. RR Spike in High Ten. Line Pole R-39+44
Elev. 732.22

B.M. RR Spike in High Ten. Line Pole R-54+37
Elev. 707.13

- STEEL LIST •
- A-Bars 32-1/2" x 8'-0" Lg. 12 Cts.
- D-Bars 6-1/2" x 19'-6" Lg.
- ESTIMATED QUANTITIES •
- Excavation 18 Cu. Yds.
- Concrete 1-2-4 12 Cu. Yds.
- Rein. Steel 250 Lbs.
- 42" Corrugated. Met. P. 20 Lin. Ft.



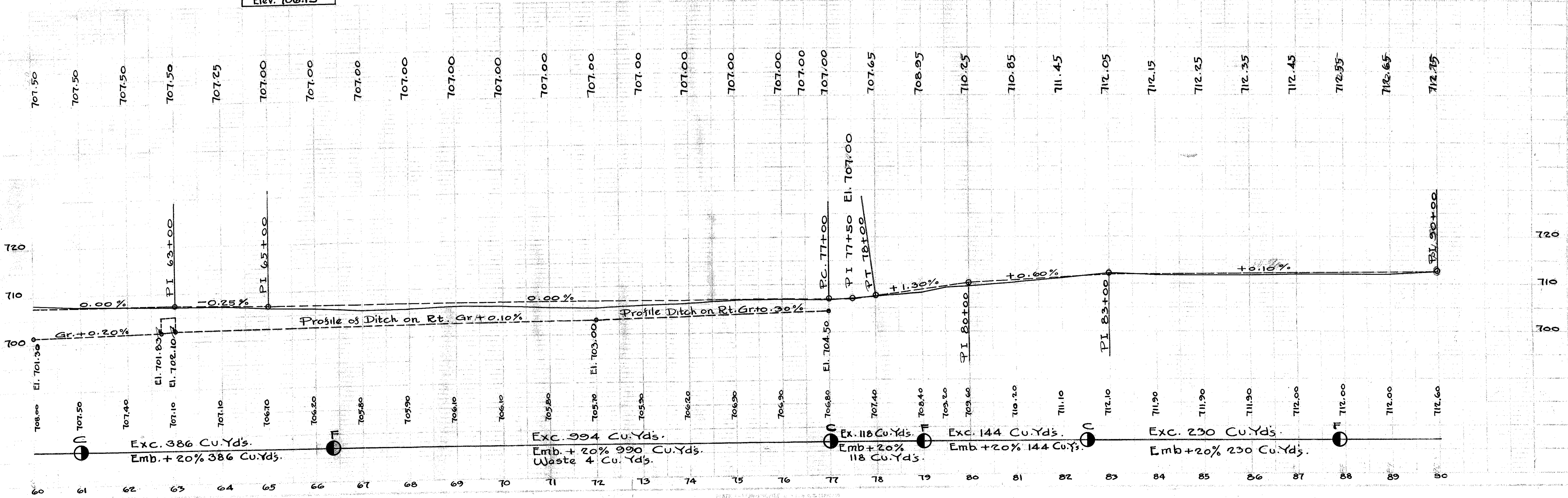


STEEL LIST
 A. Bars 24-1/2" φ 5'-6" Lg. 12' Cts.
 B. Bars 6-1/2" φ 15'-6" Lg.
 ESTIMATED QUANTITIES:
 Excavation 15 Cu. Yds.
 Concrete 1-2-4 7 Cu. Yds.
 Reinf. Steel 150 Lbs.
 30" Cor. Metal Pipe 20 Lin. Ft.

D.M.R.R. Spike in High Ten Line Pole Rt. 65+65 Elev. 706.13

D.M.R.R. Spike in High Ten Line Pole Rt. 79+56 Elev. 708.50

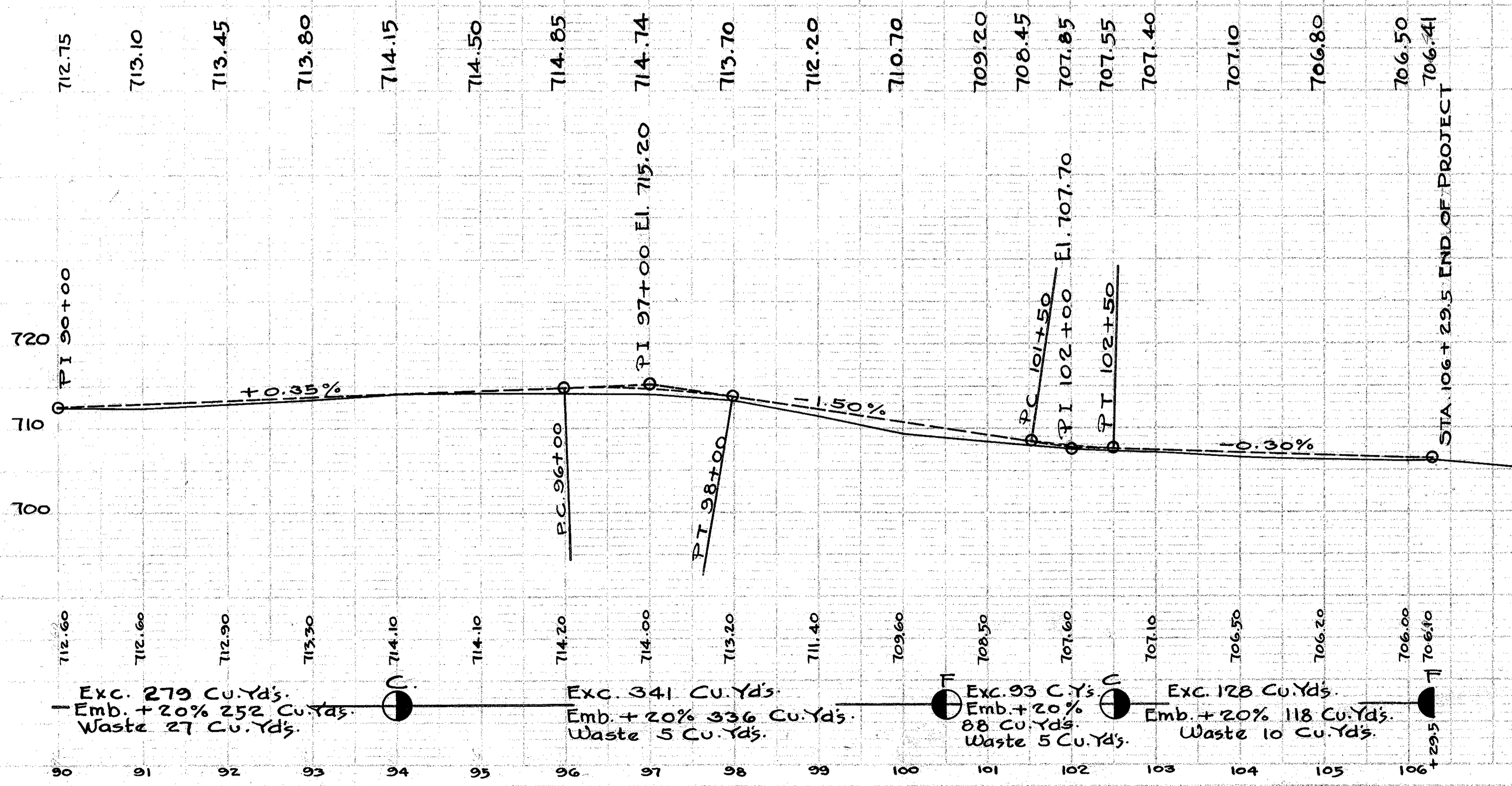
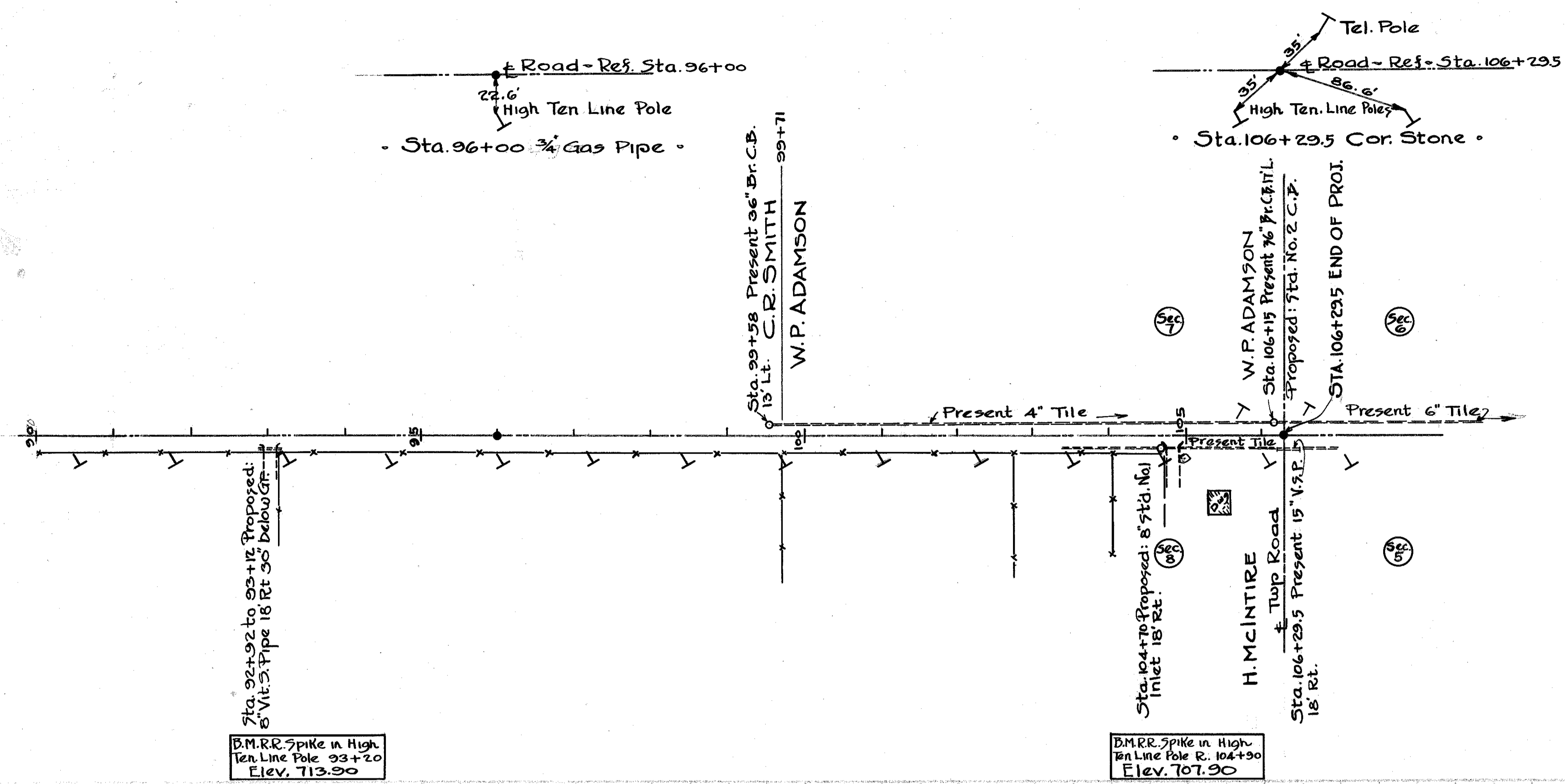
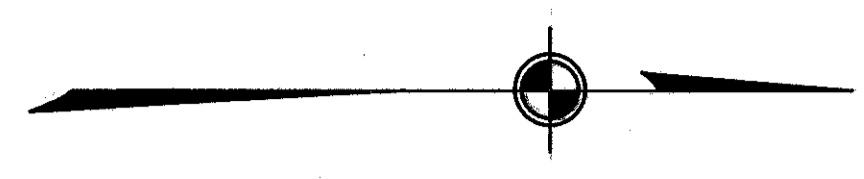
Sta. 85+57 to 85+57 Proposed 8" Vit. Pipe 18 Rt. 30' below Gr.
 Sta. 86+15 Proposed: No. 1 C.B. Std. No. 1 C.B.



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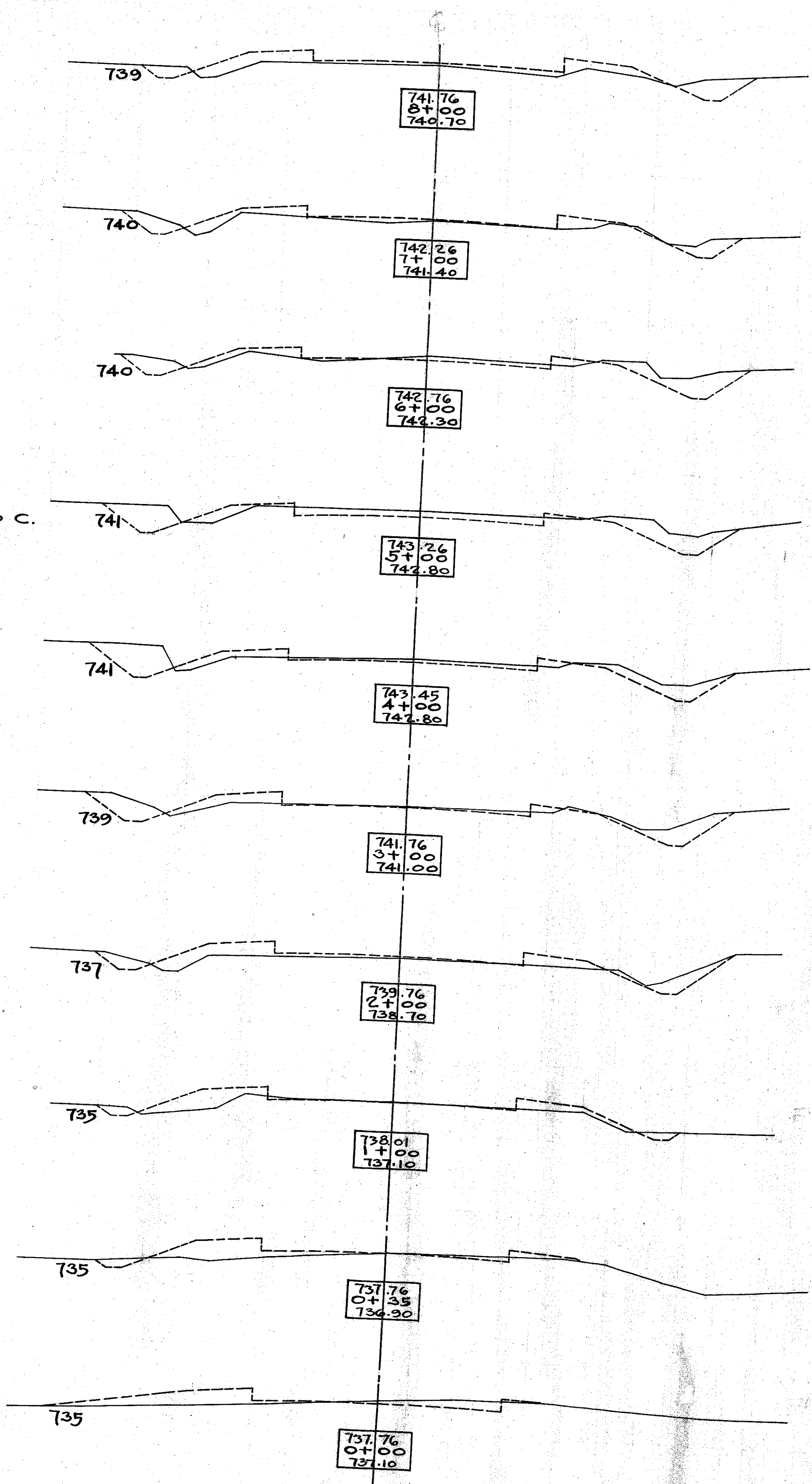
I.C.H. No. 515 SEC. "A"
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END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
7	14		
		24	43
6	9		
		37	24
14	4		
		68	13
23	3		
		74	13
17	4		
		56	17
13	5		
		37	33
7	13		
		17	43
2	10		
		5	27
2	11		
		4	23
4	9		

Exc. 145 Cu. Yds.
Emb. 123 Cu. Yds.

Exc. 193 Cu. Yds.
Emb. 156 Cu. Yds.

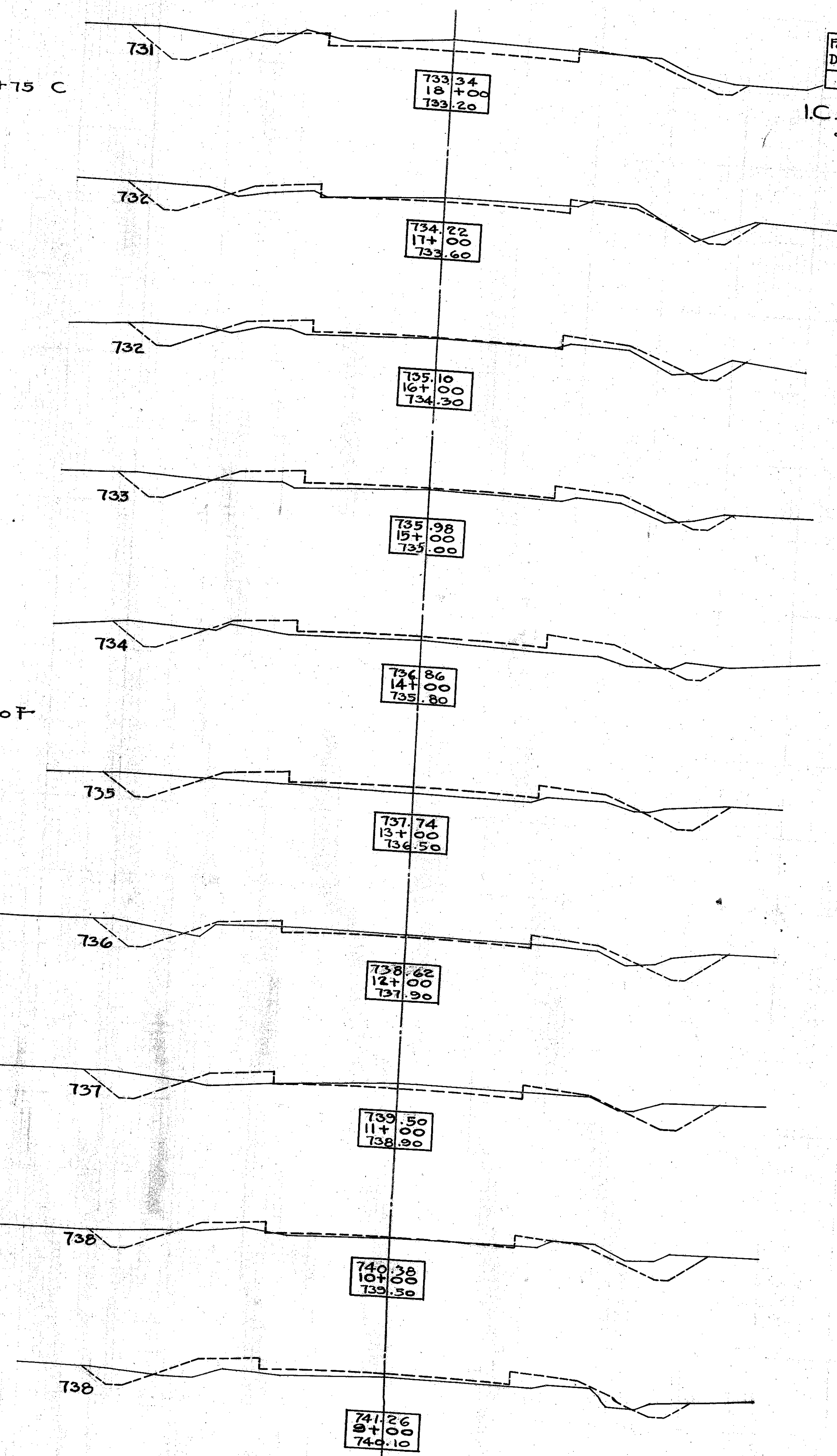


END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
23	1		
		69	7
14	3		
		39	20
7	8		
		26	37
7	12		
		28	48
8	14		
		35	48
11	12		
		48	32
15	5		
		37	19
16	5		
		48	19
10	5		
		28	41
5	17		
		22	57

Exc. 66 Cu. Yds.
Emb. 56 Cu. Yds.

Exc. 161 Cu. Yds.
Emb. 134 Cu. Yds.

Exc. 119 Cu. Yds.
Emb. 93 Cu. Yds.

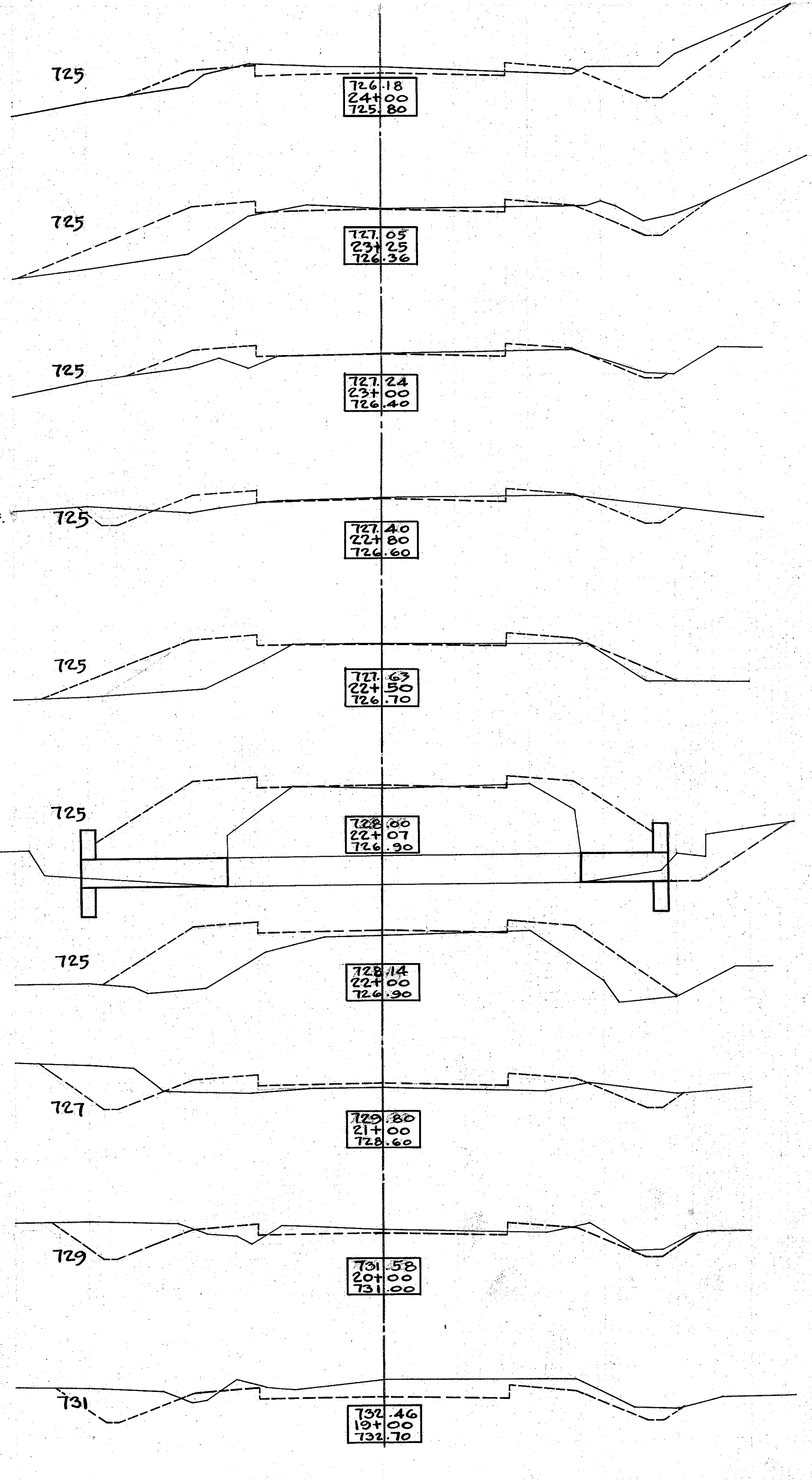


Fed. Rd. Dist. No.	STATE	Fed. Acl. Proj. No.	FISCAL YEAR.
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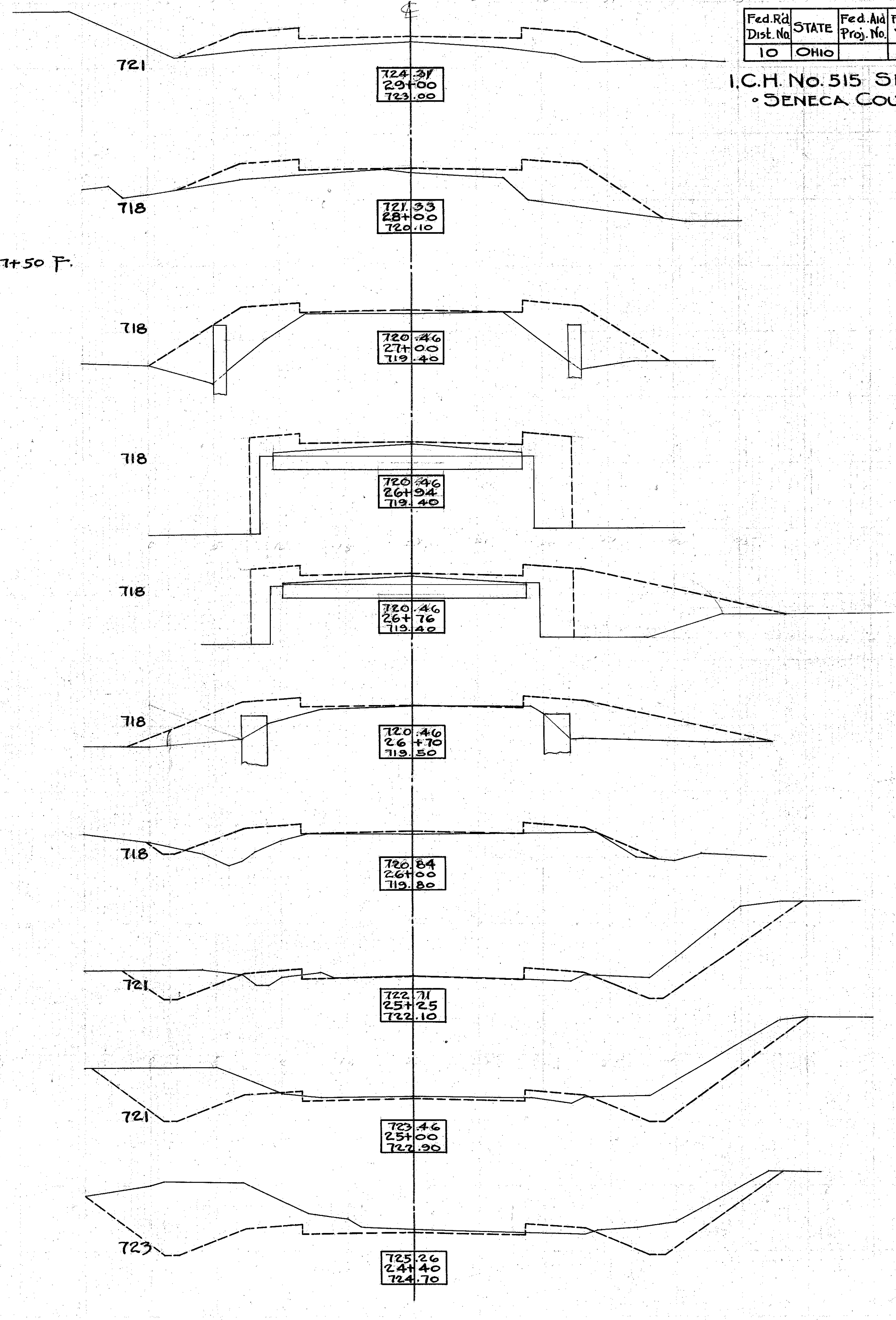
I.C.H. No. 515 SECTION "A"
SENECA COUNTY.

END AREA		Cu. Yds.		CUT	FILL	Exc. 90 Cu. Yds. Emb 72 Cu. Yds.
CUT	FILL	CUT	FILL			
27	6					
		51	46			
10	27					
		5	17			
2	10					
		4	6			
10	7					
		6	25			
0	37					
		5	18			
12	61					
		2	15			
0	54					
		35	128			
19	15					
		74	35			
21	4					
		106	9			
36	11					
		109				

24+15 C



END AREA		Cu. Yds.		CUT	FILL	Exc. 309 Cu. Yds. Emb 258 Cu. Yds.
CUT	FILL	CUT	FILL			
0	34					
			137			
0	40					
		191				
0	63					
		0	111			
0	38					
0	0					
0	77					
		0	14			
0	52					
		0	90			
11	17					
		54	32			
38	6					
		46	4			
64	3					
		159	7			
82	3					
		80	7			



Fed. Rd. STATE Fed. Aid Fiscal
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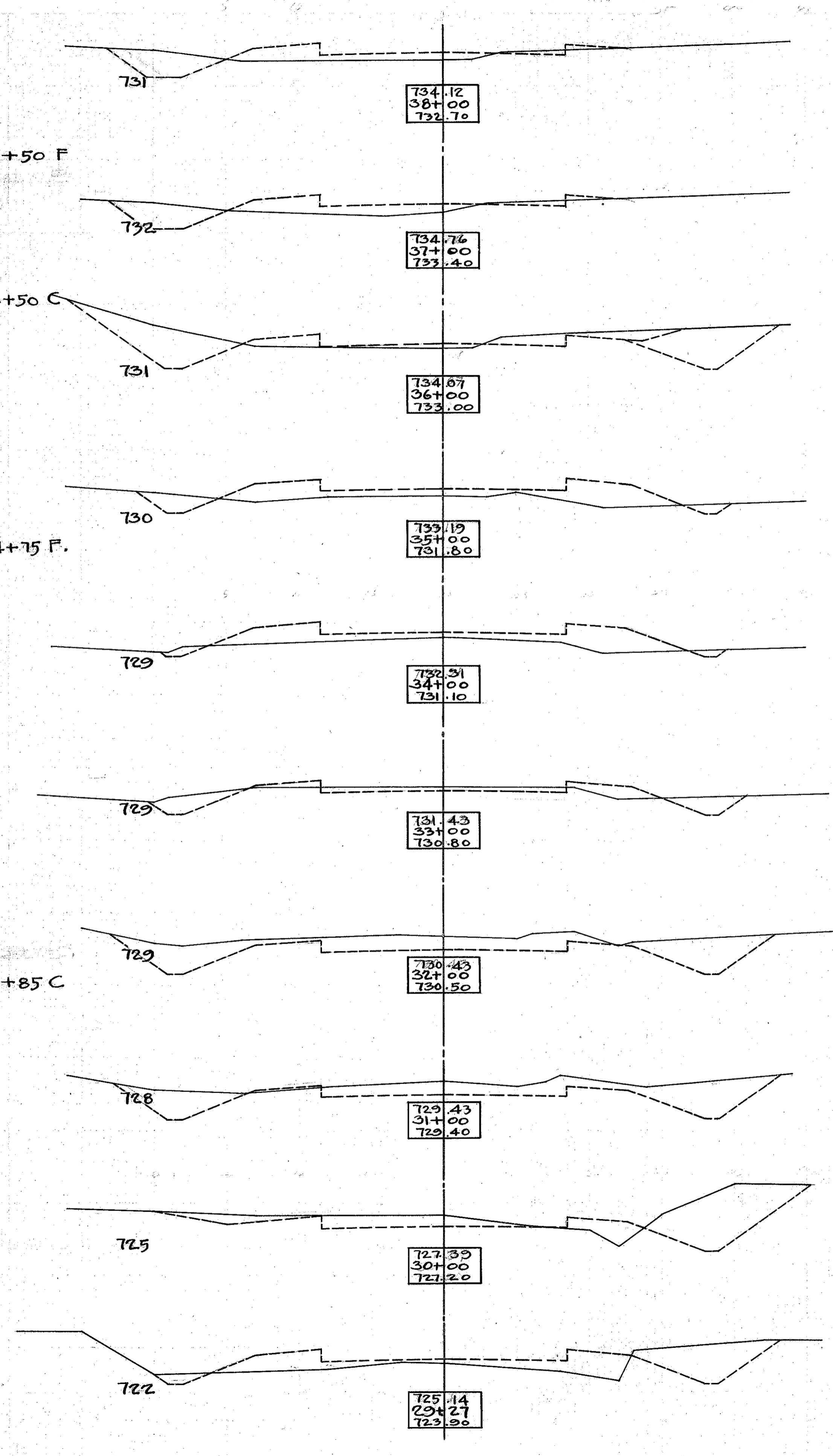
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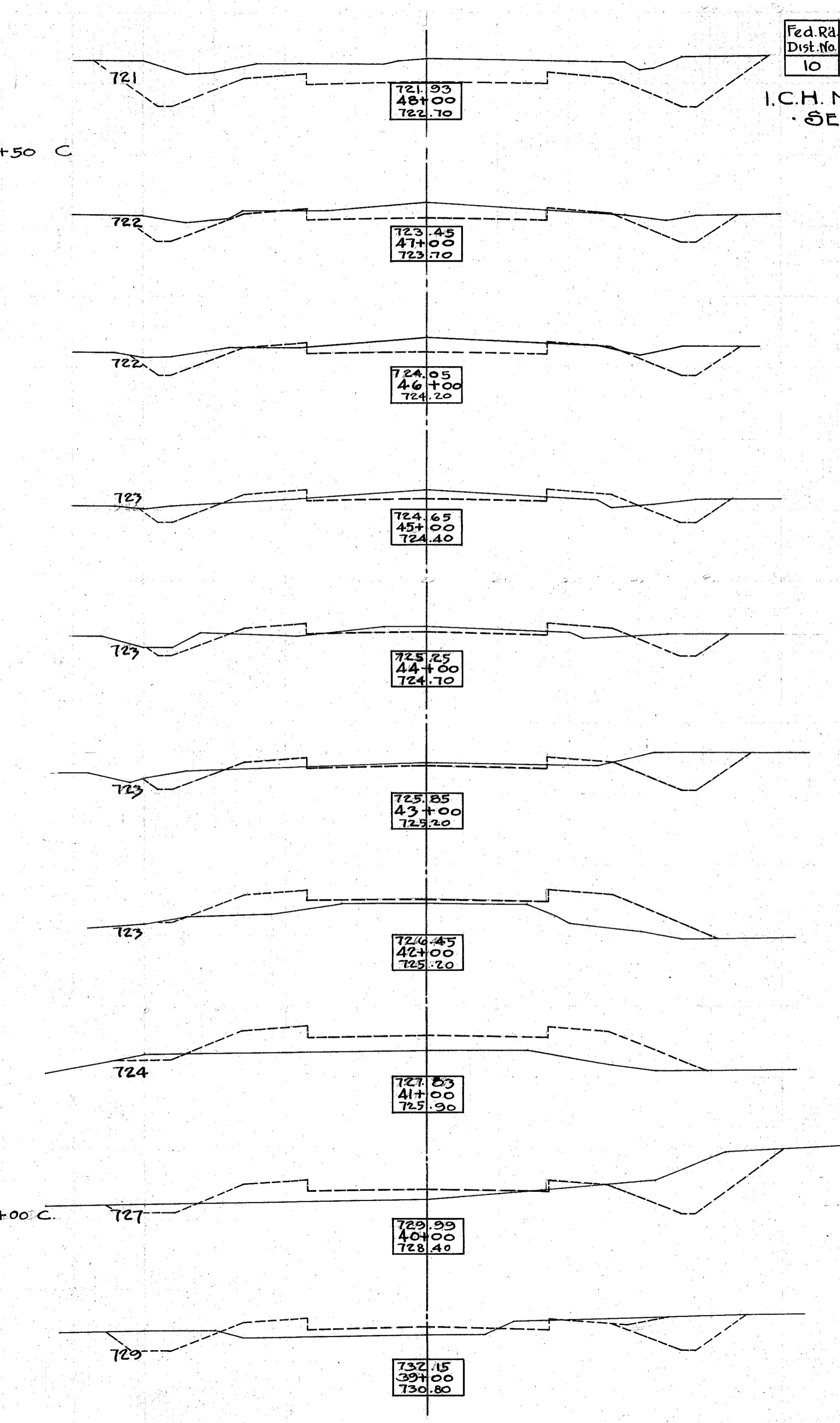
END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
10	11		
		37	43
10	12		
		63	37
24	39	8	
		83	61
6	25		
		22	98
2	28		
		30	61
14	5		
		111	9
46	0		
		163	2
42	1		
		148	15
38	7		
		76	38
18	21		
		9	27

EXC. 50 Cu. Yds.
 Emb. 41 Cu. Yds.
 EXC. 120 Cu. Yds.
 Emb. 99 Cu. Yds.
 EXC. 177 Cu. Yds.
 Emb. 148 Cu. Yds.
 EXC. 376 Cu. Yds.
 Emb. 314 Cu. Yds.



END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
72	0		
		189	2
30	1		
		106	4
27	1		
		80	11
16	5		
		52	20
12	6		
		61	19
21	4		
		39	70
0	34		
		2	146
1	45		
		48	117
25	18		
		87	57
22	13		
		39	44

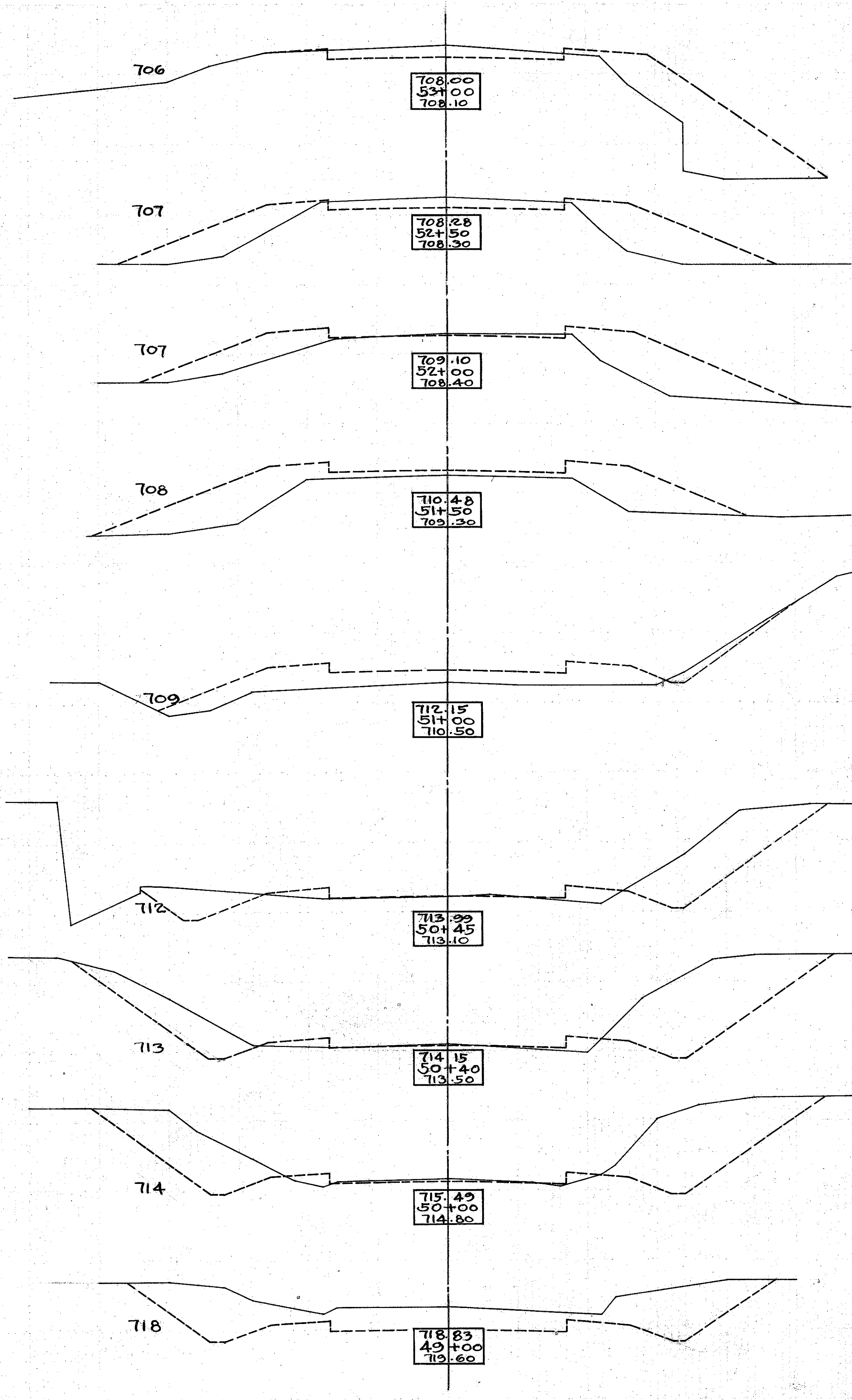
EXC. 468 Cu. Yds.
 Emb. 389 Cu. Yds.
 EXC. 145 Cu. Yds.
 Emb. 122 Cu. Yds.



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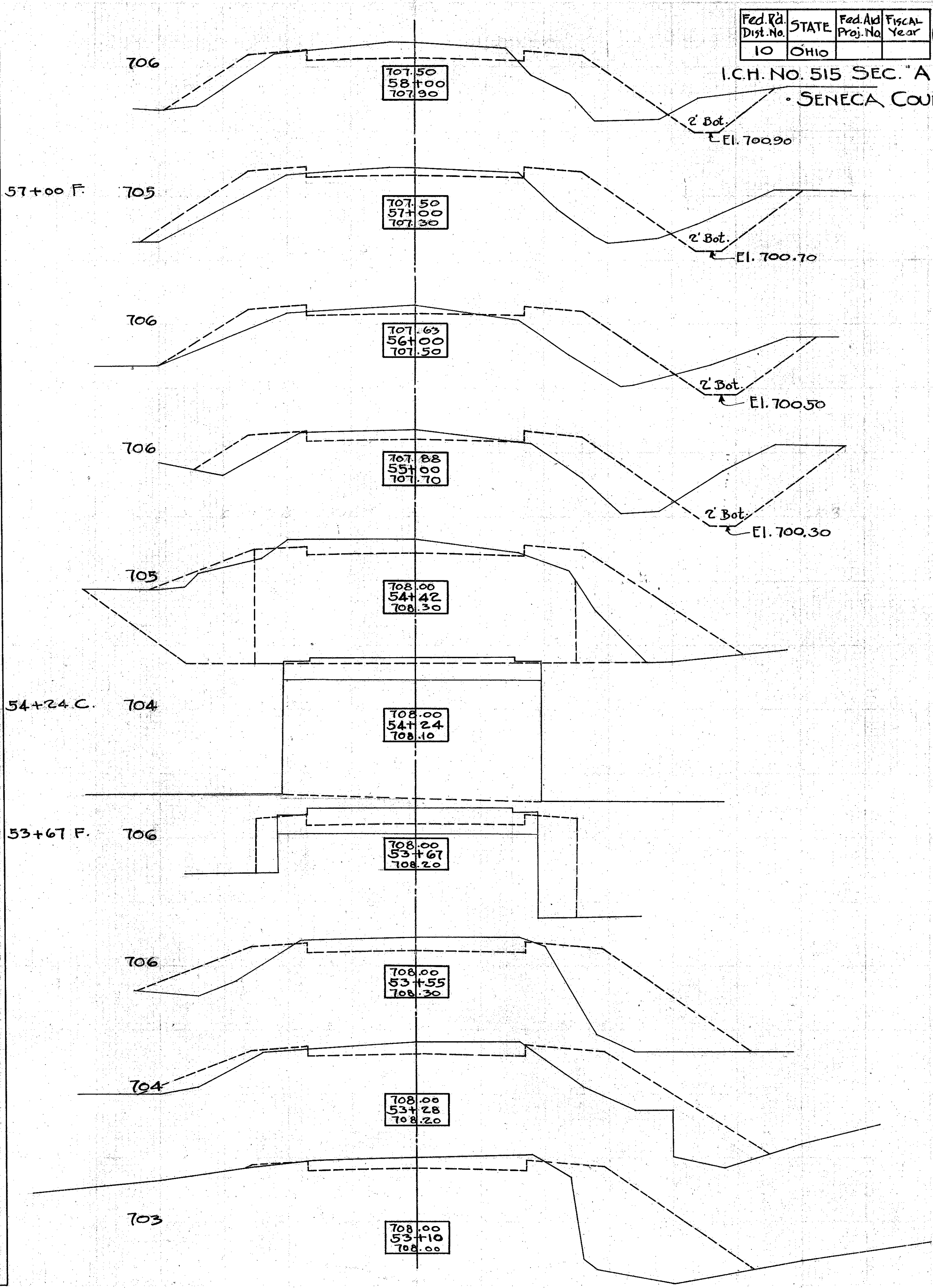
END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
12	52		
		22	96
12	52		
		13	96
2	52		
		2	106
0	62		
		4	96
4	42		
		54	49
49	6		
		11	1
79	5		
		123	5
87	2		
		318	4
85	0		
		291	0

Exc. 986 Cu. Yds.
Emb. 610 Cu. Yds.



END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
31	39		
		107	157
27	46		
		98	161
26	41		
		132	144
45	37		
		68	97
17	53		
		304	00
219	0		
		185	0
19	30		
		8	25
17	80		
		16	67
15	55		
		10	47
16	71		
		5	23

Creek
Exc. 483 Cu. Yds.
Emb. 402 Cu. Yds.



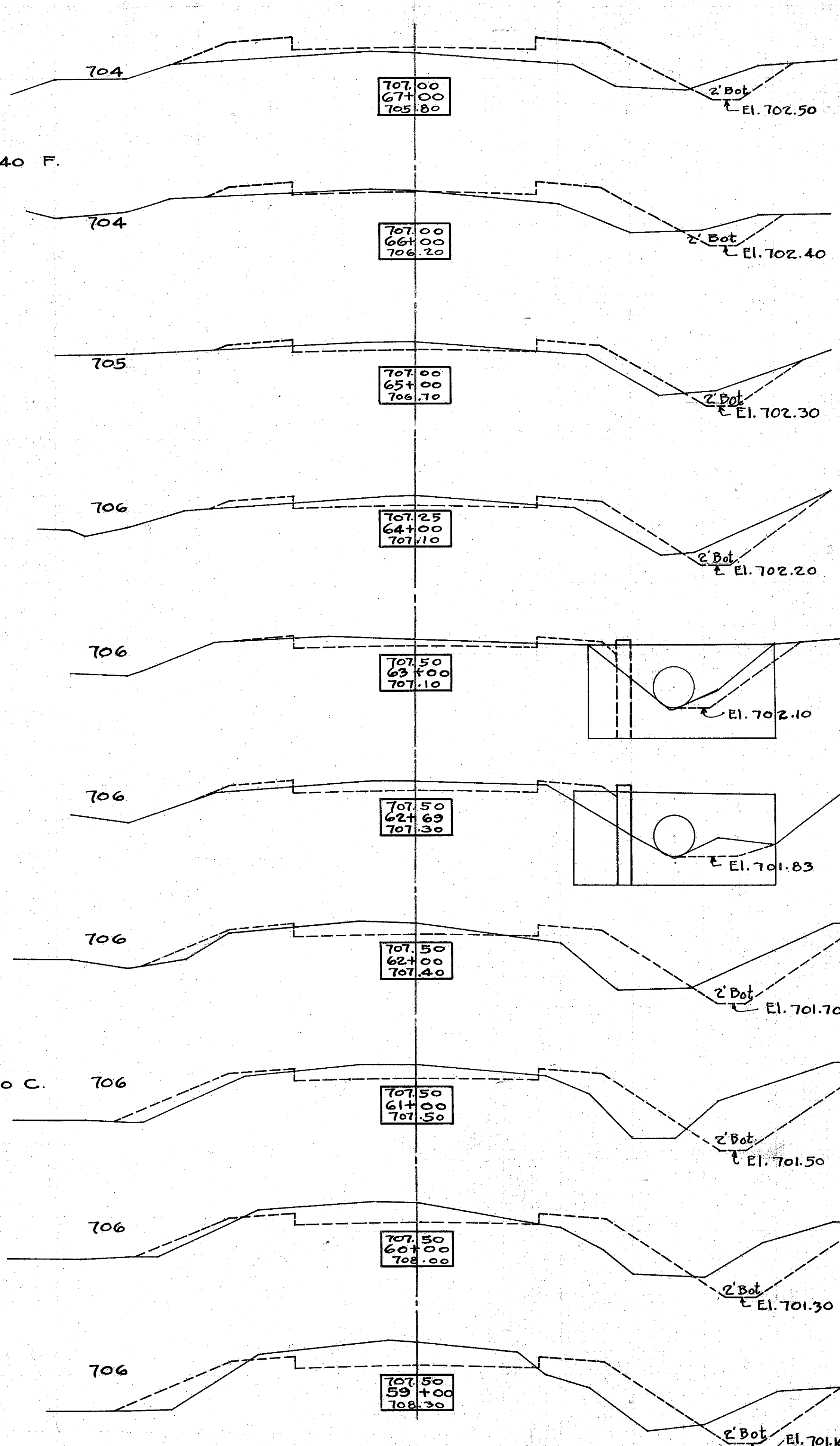
END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
7	33		
		28	98
8	20		
		39	56
13	10		
		59	39
19	11		
		63	37
15	21		
		10	3
15	19		
		60	57
32	25		
		144	91
46	24		
		165	83
43	21		
		154	93
40	29		
		132	126

Exc. 386 Cu. Yds.
Emb 322 Cu. Yds.

Exc. 558 Cu. Yds.
Emb 459 Cu. Yds.

66+40 F.

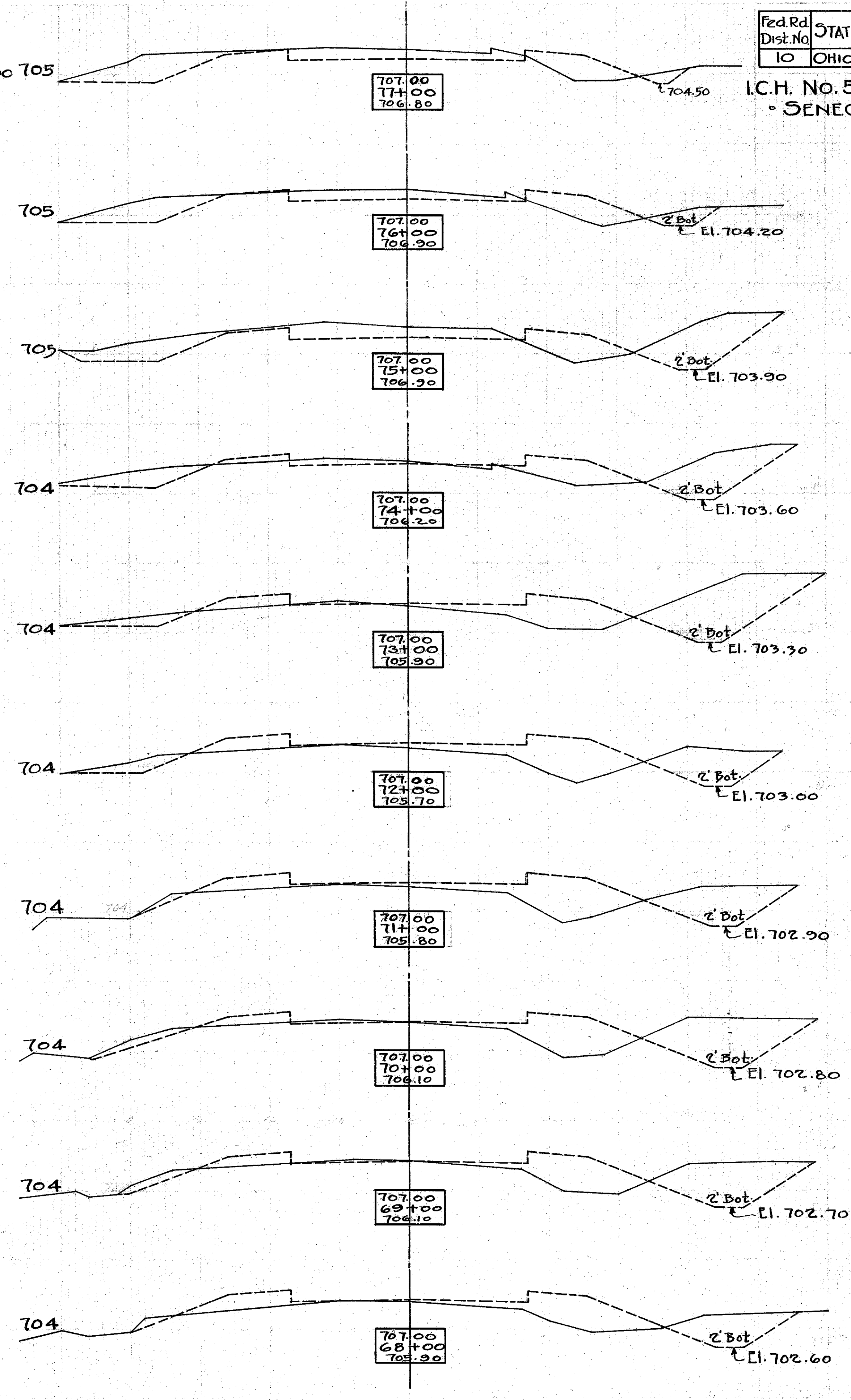
61+00 C.



END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
24	9		
		91	35
25	10		
		130	37
45	10		
		139	43
30	13		
		122	67
36	23		
		106	98
21	30		
		74	109
19	29		
		94	96
32	23		
		106	83
25	22		
		74	89
15	26		
		41	109

Exc. 994 Cu. Yds.
Emb 825 Cu. Yds.

77+00 C.



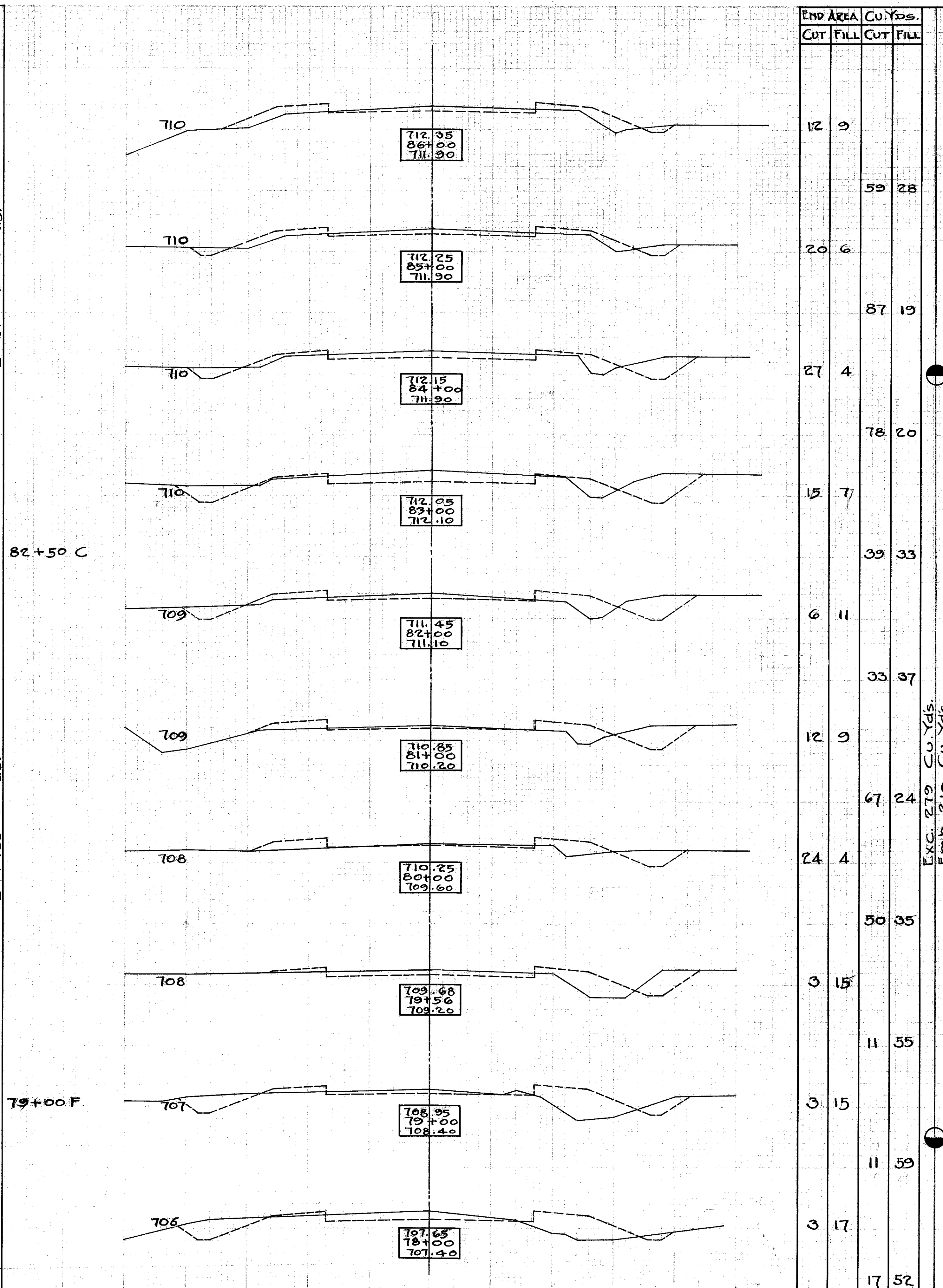
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END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
6	11		
		33	35
9	8		
		44	24
16	5		
		81	17
28	4		
		79	26
15	10		
		44	33
9	8		
		28	30
6	8		
		14	15
11	10		
		24	27
12	16		
		48	56
14	14		
		70	43

Ex. C. 230 Cu. Yds.
 Emb. 192 Cu. Yds.

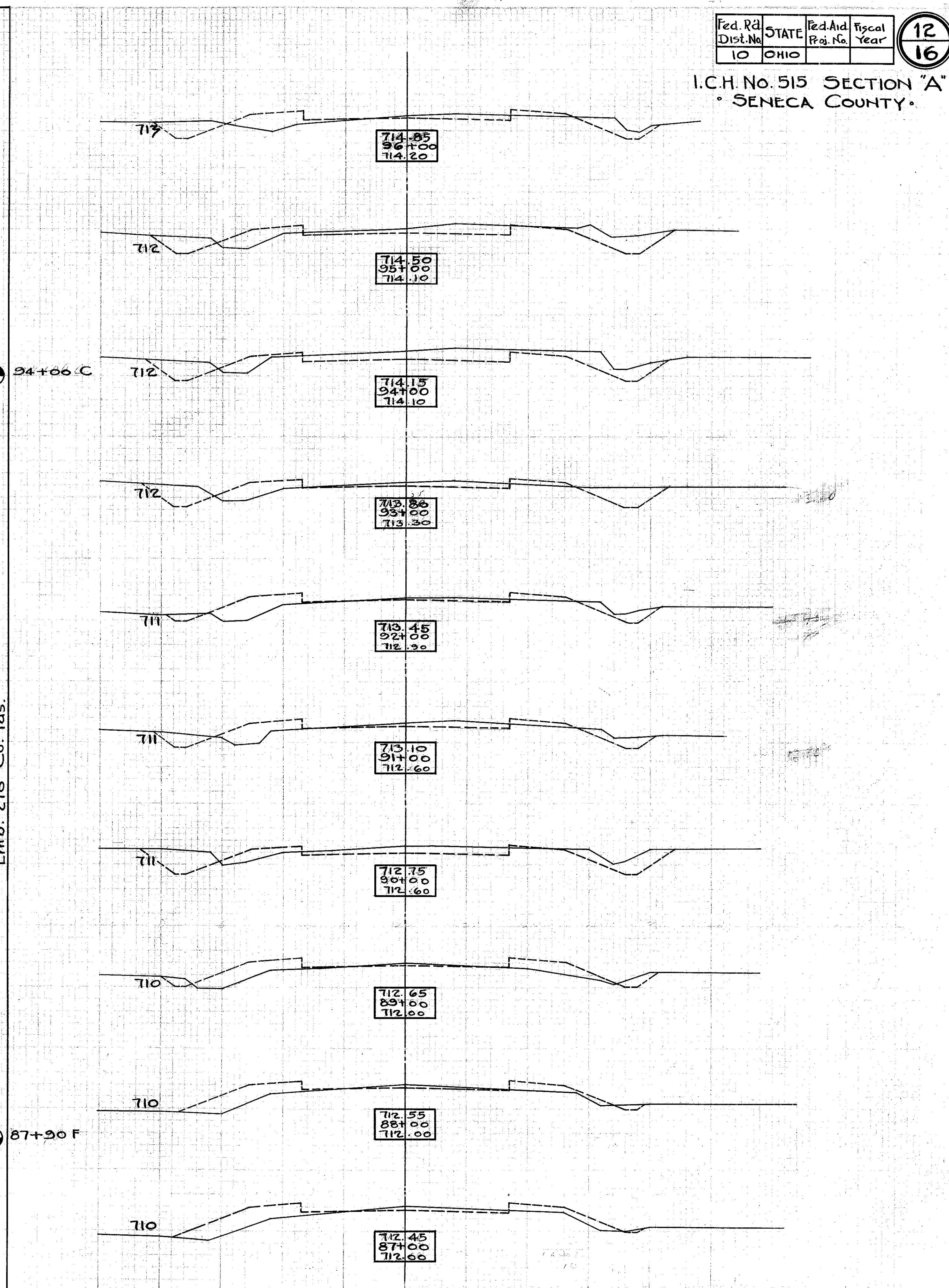
Ex. C. 144 Cu. Yds.
 Emb. 120 Cu. Yds.

Ex. C. 118 Cu. Yds.
 Emb. 99 Cu. Yds.



END AREA		Cu. Yds.	
CUT	FILL	CUT	FILL
12	9		
		59	28
20	6		
		87	19
27	4		
		78	20
15	7		
		39	33
6	11		
		33	37
12	9		
		67	24
24	4		
		50	35
3	15		
		11	55
3	15		
		11	59
3	17		
		17	52

Ex. C. 219 Cu. Yds.
 Emb. 210 Cu. Yds.



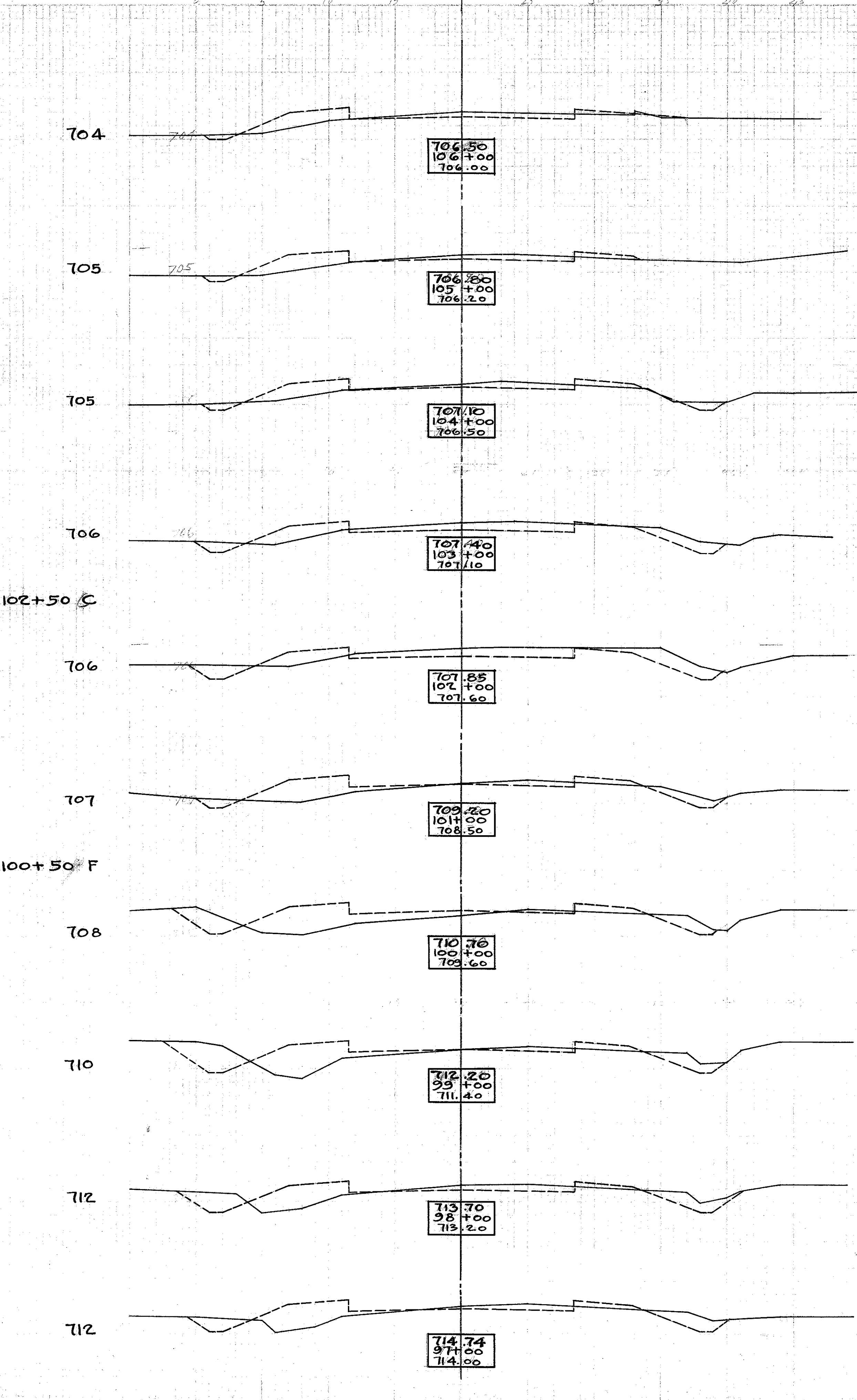
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END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
6	8	22	28
6	9	24	30
7	7	41	24
15	6	63	20
19	5	48	33
7	13	30	61
9	20	43	67
14	16	52	50
14	11	44	44
10	13	41	41

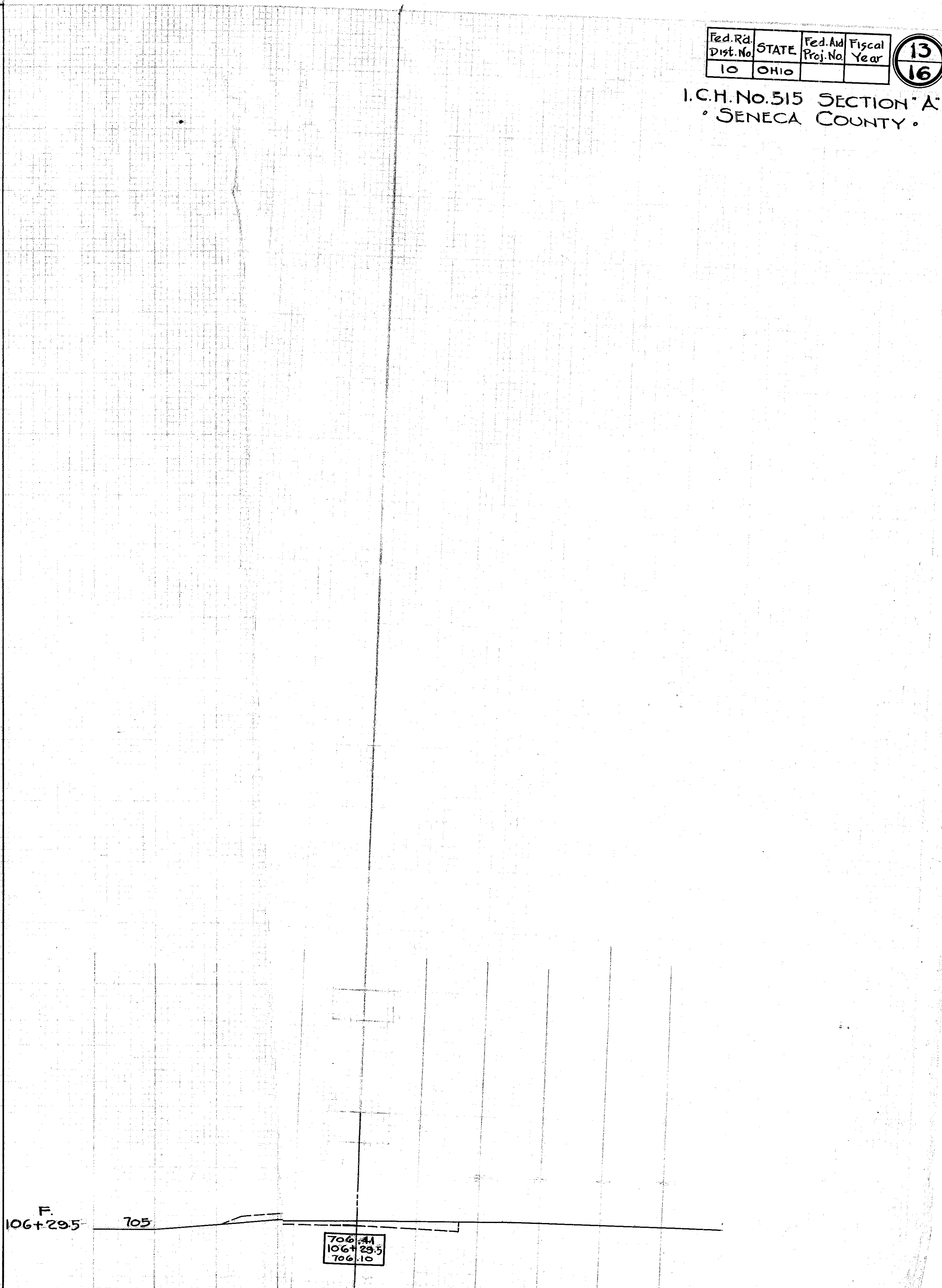
Exc. 128 Cu. Yds.
 Emb. 98 Cu. Yds.

Exc. 93 Cu. Yds.
 Emb. 73 Cu. Yds.

Exc. 341 Cu. Yds.
 Emb. 280 Cu. Yds.

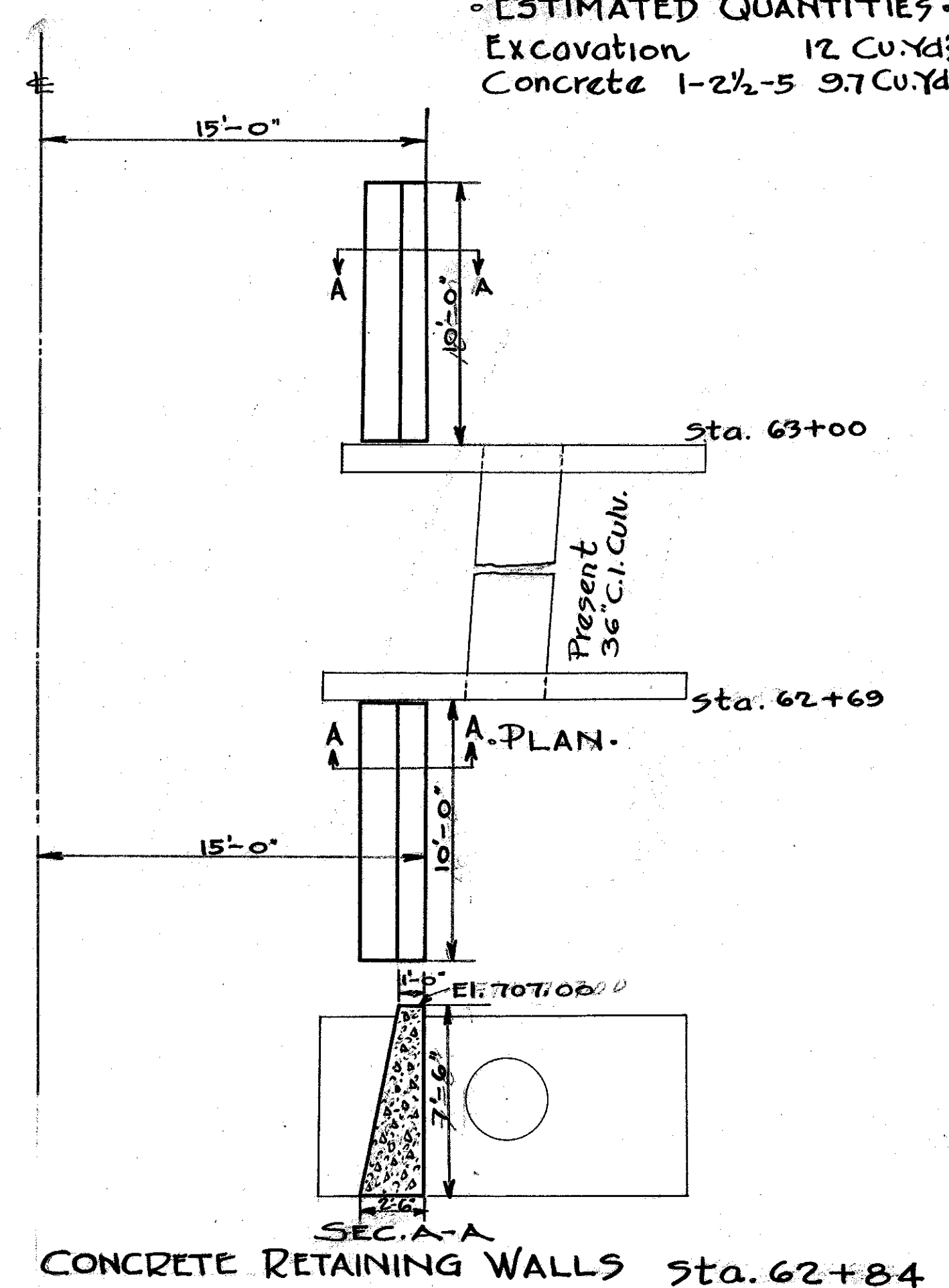


END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
8	2	8	6

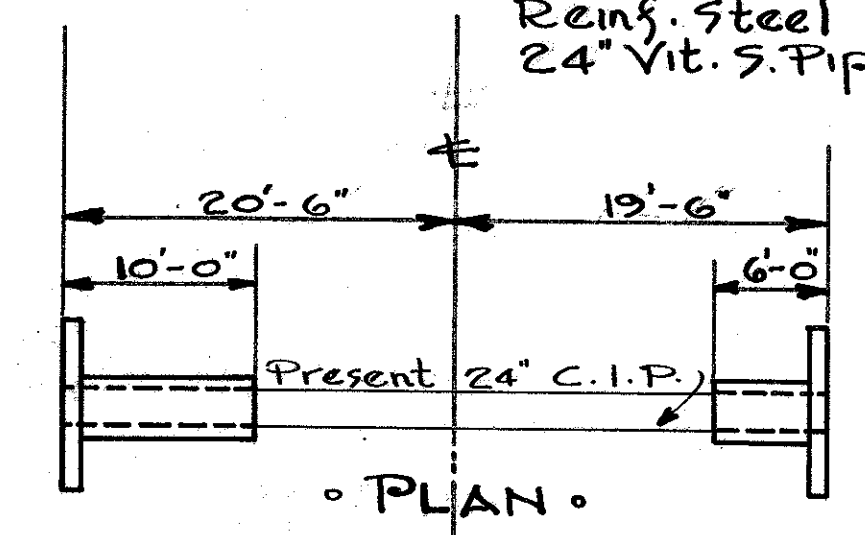


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SENECA COUNTY

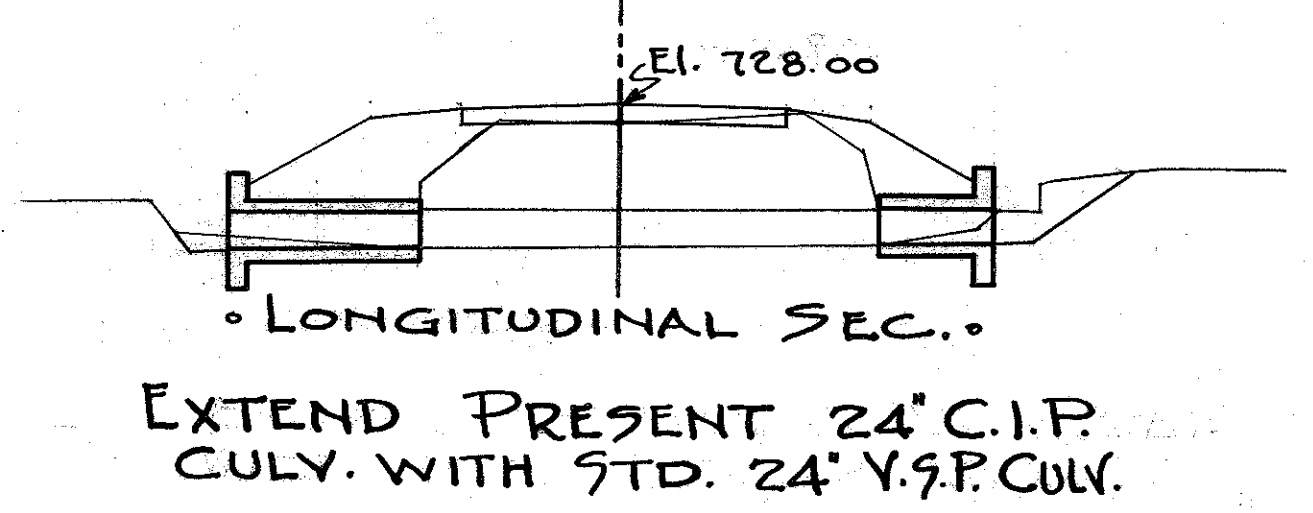
ESTIMATED QUANTITIES:
Excavation 12 Cu. Yds.
Concrete 1-2 1/2-5 9.7 Cu. Yds.



ESTIMATED QUANTITIES:
Excavation 8 Cu. Yds.
Concrete 1-2-4 3.5 Cu. Yds.
Concrete 1-3-6 2.9 Cu. Yds.
Reinf. Steel 105 Lbs.
24" Vit. S. Pipe 16 Lin. Ft.

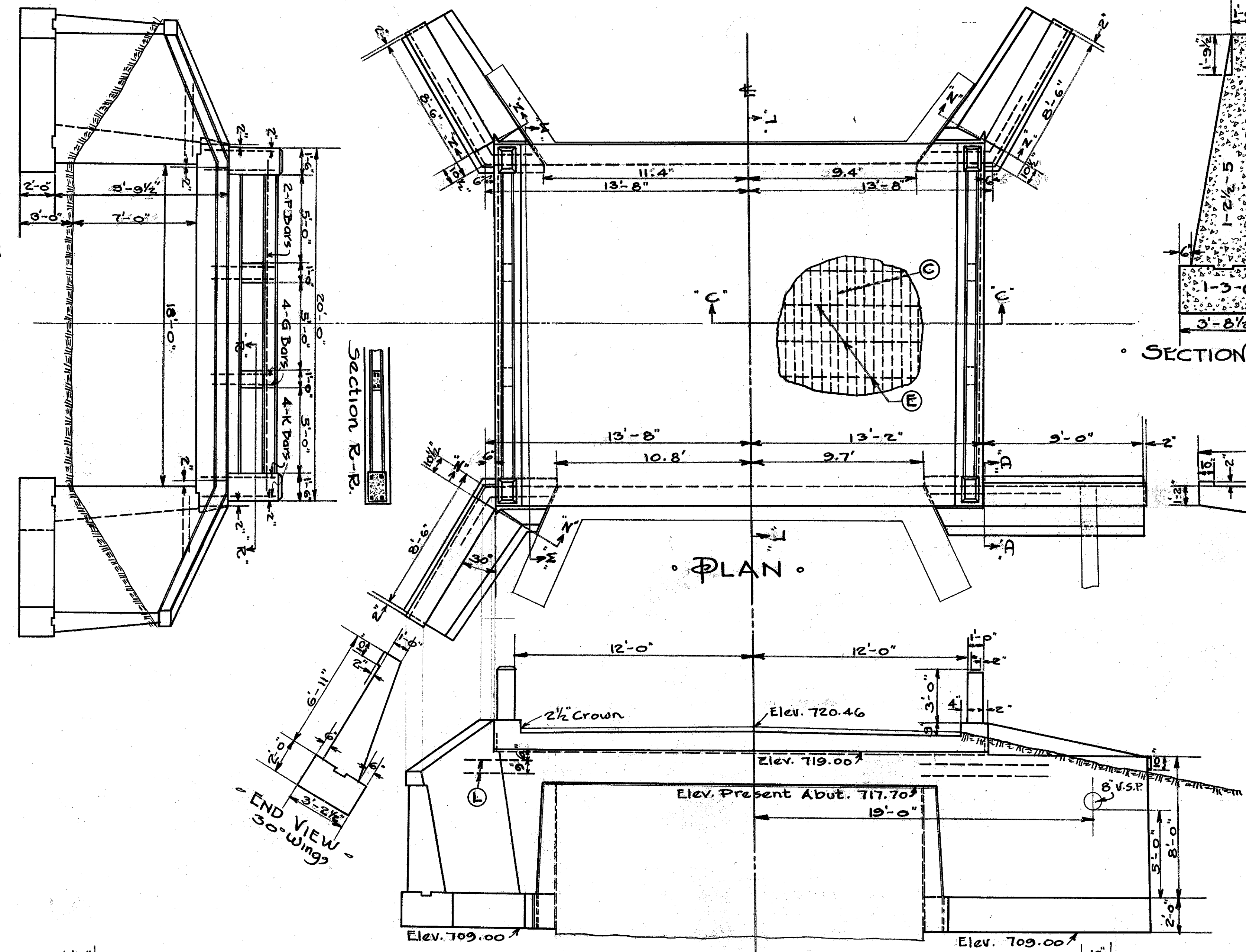


Use Standard Plan for 24" Vitrified Pipe Culvert.



STA. 22+07

ELEVATION A



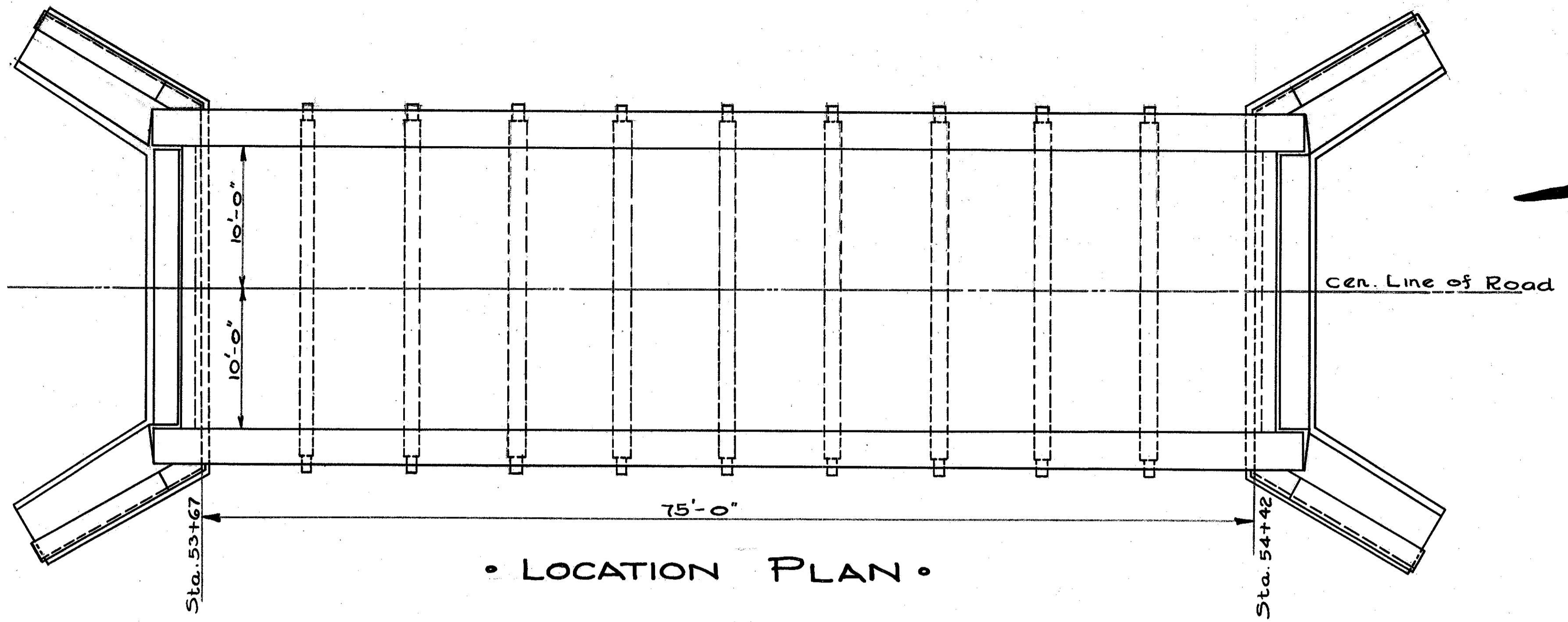
NOTE:- Old Steel super-structure to be removed and placed at the disposal of the County Commissioners.

STEEL LIST

Mark	No.	Size	Length	Spacing
C	60	3/4"	20'-0"	5 1/2" Ctr.
E	9	1 1/2"	28'-0"	2'-0"
F	4	3/8"	19'-6"	
G	16	3/8"	3'-6"	
K	16	3/8"	4'-0"	
L	8	3/4"	5'-0"	

ESTIMATED QUANTITIES:
Excavation 80 Cu. Yds.
Concrete 1-2-4 13.2 Cu. Yds.
Concrete 1-2 1/2-5 30.2 " "
Concrete 1-3-6 110.5 " "
Reinf. Steel 2646 Lbs.
Conc. Railing 40 Lin. Ft.

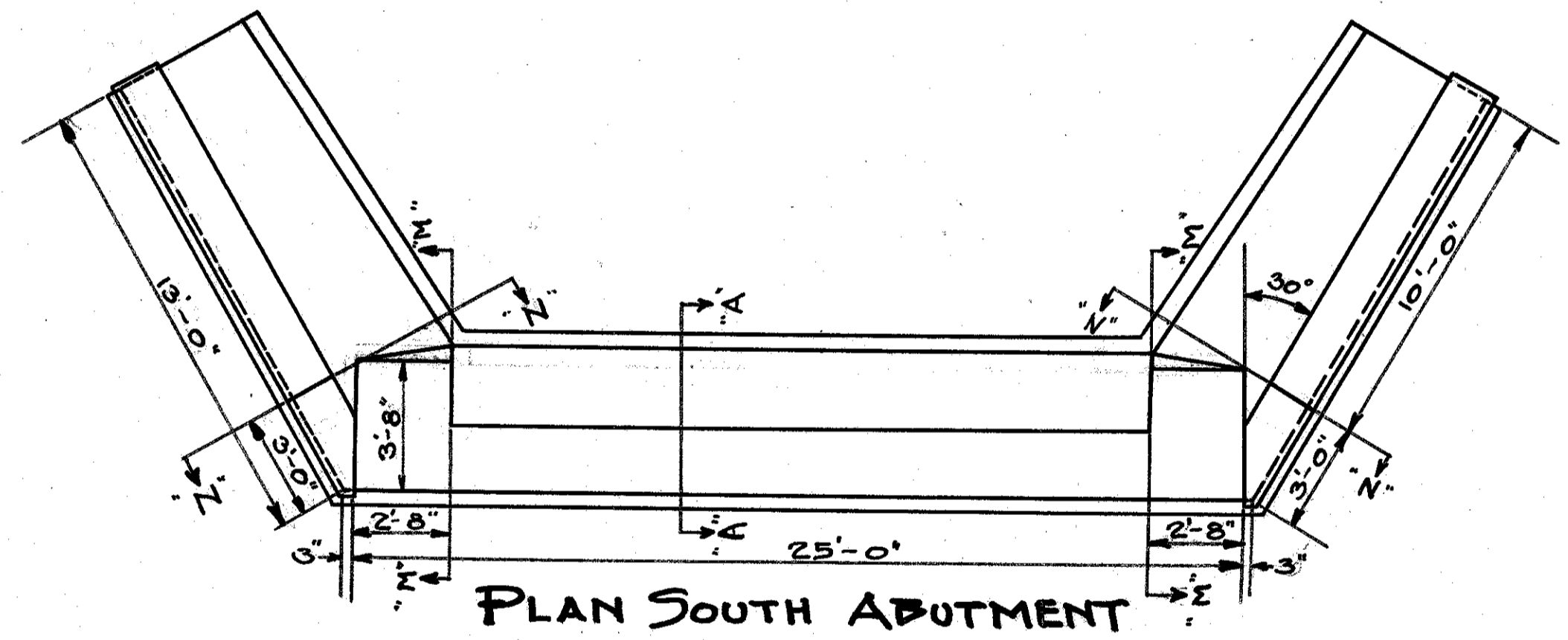
STANDARD SLAB BRIDGE STA. 26+76
Clear span 18' - Roadway 24'



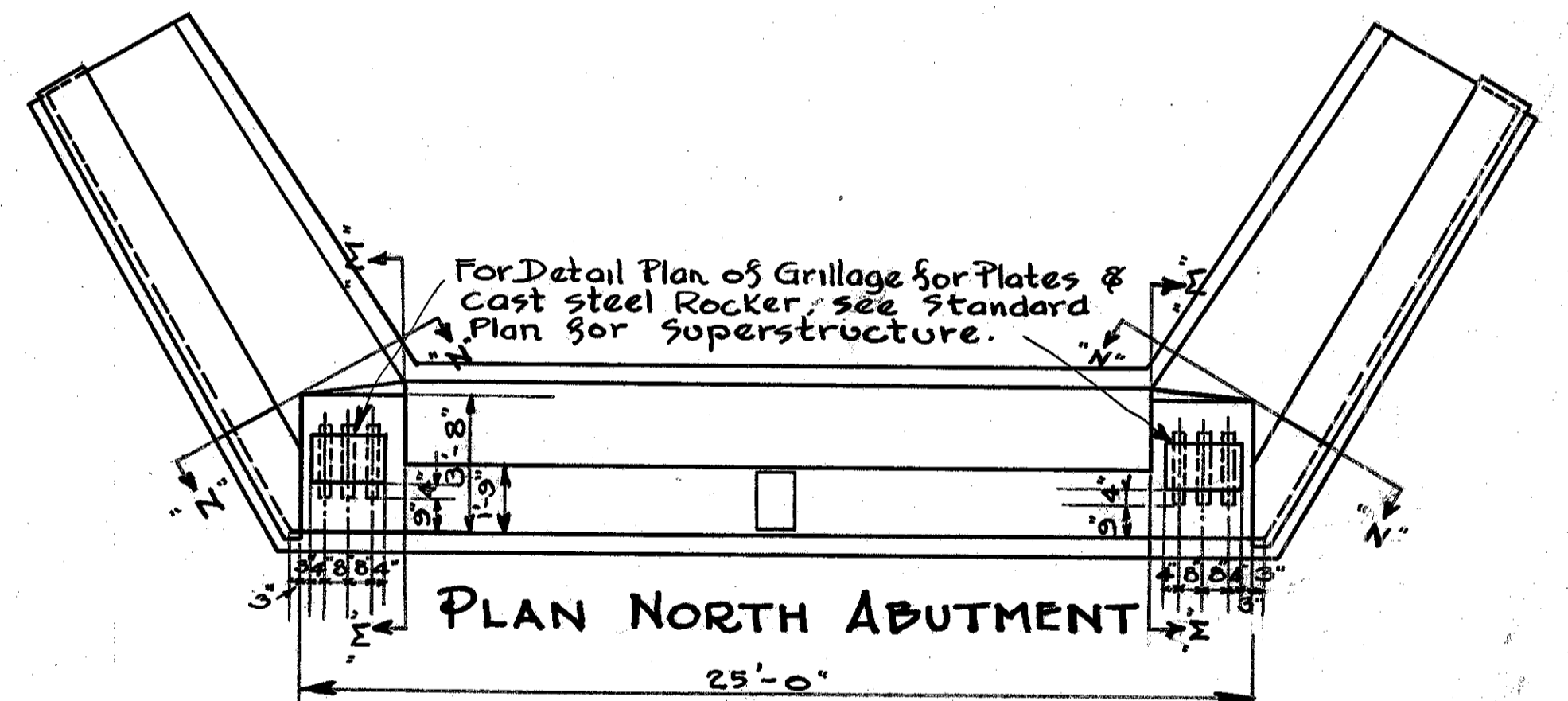
• LOCATION PLAN •

NOTE - Superstructure to be standard
 Concrete Through Arch
 Clear Span 75 Feet
 Roadway 20 Feet
 T-15 Loading

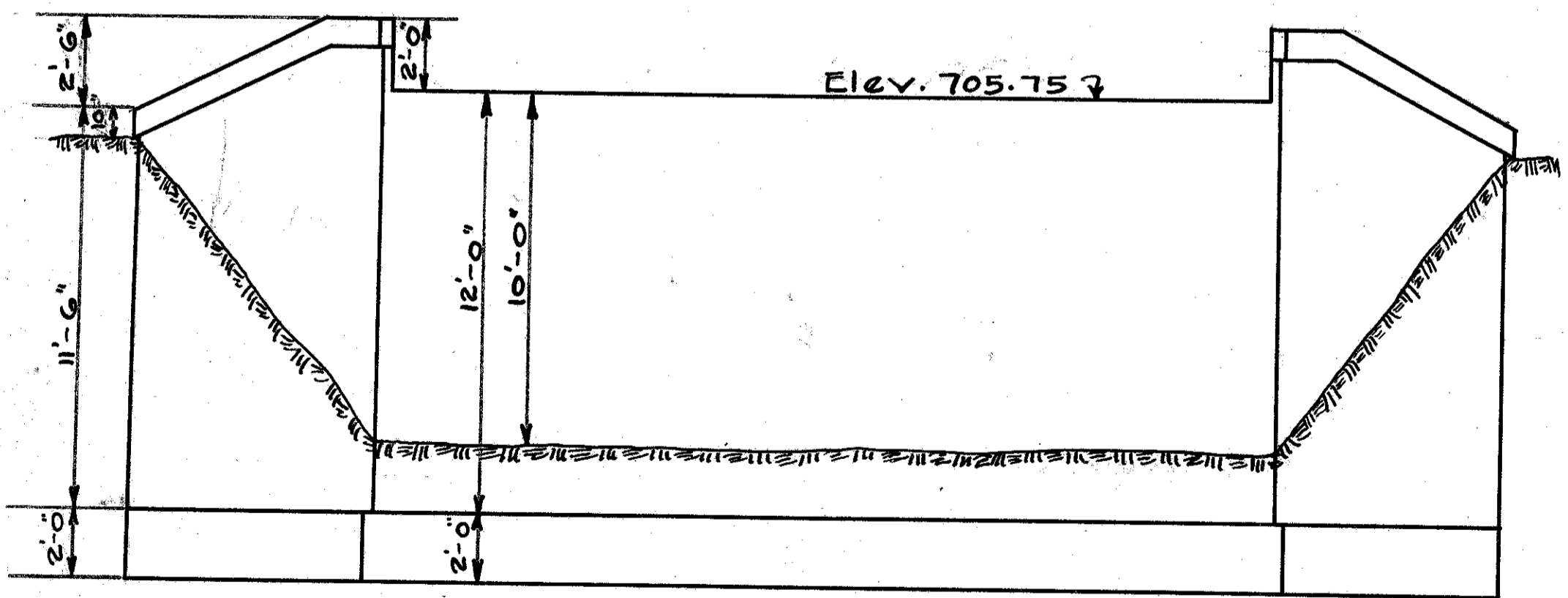
1-2-4 Conc - 127.5 Cu Yds.
 Steel Reinf 36940 lbs
 " Shutt 2480 "



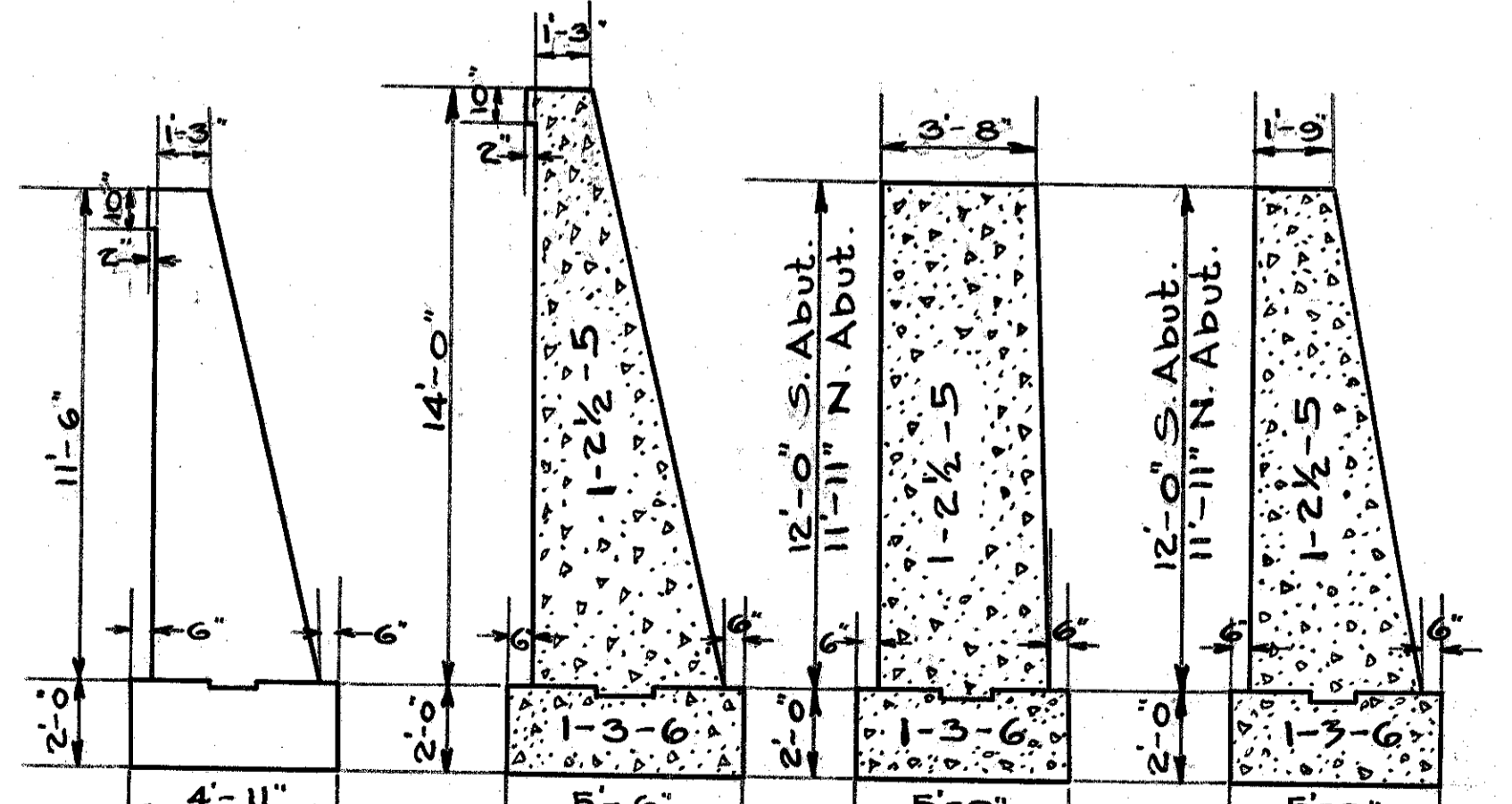
PLAN SOUTH ABUTMENT



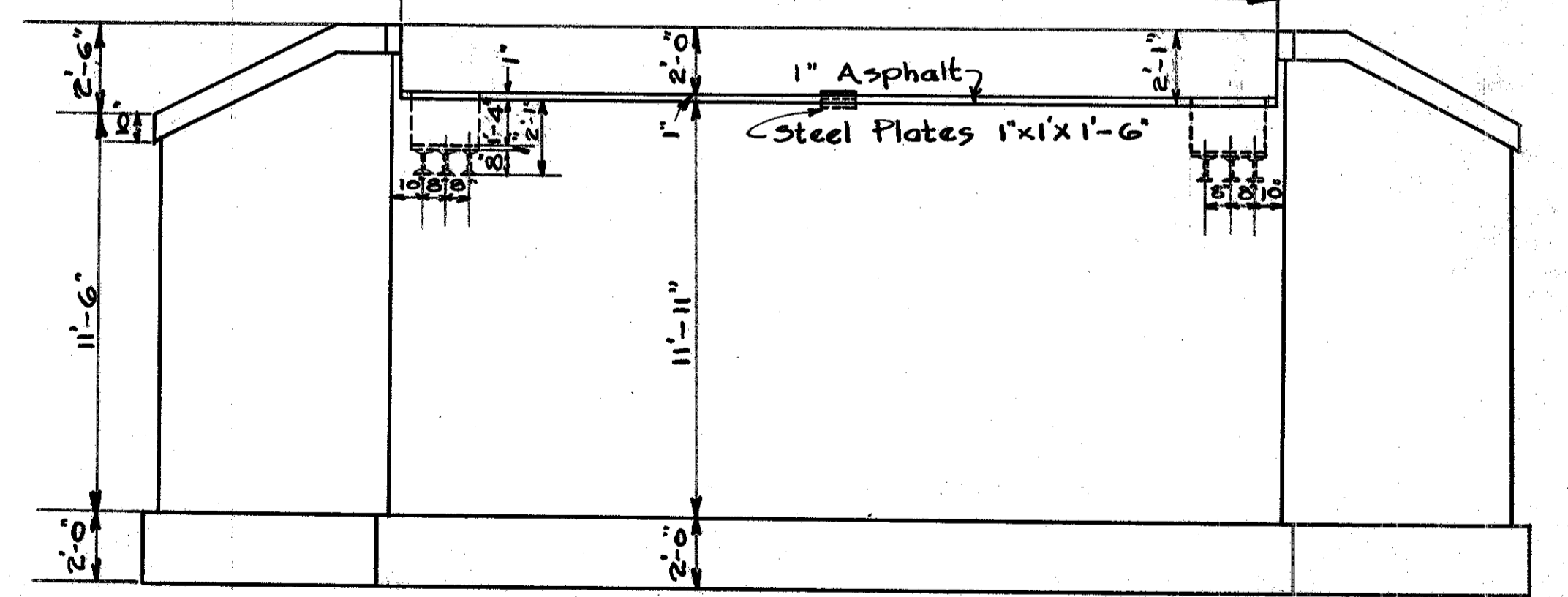
PLAN NORTH ABUTMENT



END VIEW



• END VIEW • - OF WING • - SEC. N-N • - SEC. M-M • - SEC. A-A •



• END VIEW •

NOTE: Old Bridge to be removed
 and placed at the disposal of
 The County Commissioners.

• ESTIMATED QUANTITIES •
 Excavation 550 Cu. Yds.
 Concrete 1-2 1/2-5 130 Cu. Yds.
 Concrete 1-3-6 28 Cu. Yds.
 Asphalt 540 Lbs.

1-2-4 Cu Yds 127.5
 2480

• PLAN OF ABUTMENTS •
 FOR STANDARD CONCRETE THROUGH ARCH
 CLEAR SPAN 75 FT. ROADWAY 20'
 STA. 53+67 & 54+42

• SUMMARY OF QUANTITIES •

I.C.H. NO. 515 Sec. A
Seneca County

STATION	TYPE	SIZE	LENGTH	EXCA-TION Cu.Yds.	CONCRETE				REINF- STEEL LBS.	VITRIFIED PIPE						DRAIN TILE			3" Std. No. 1 Inlet NO.	3" Std. No. 1 C.B. NO.	Corrugated Metal Pipe		Conc. Railings Lin.Ft.	Structur- al Steel Lbs.	Asphalt Lbs.	REMARKS		
					1-2-4	1-2 1/2-5	1-3-6	8"		10"	12"	15"	18"	24"	8"	10"	12"	30"			42"							
STRUCTURES UNDER 20 FT. SPAN																												
22+07	C.I. & V.S. Pipe	24"	40'	8	3.5		2.9	105																			Extend Present C.I.P. Culv. with 24" V.S.P.	
26+76	Std. Slab Br.	18' Span	24' Rdwy.	80	23.8	30.2	10.5	2646																			Remove old Bridge	
62+84	Retaining Walls	7'-6" High	10' Long	12		9.7																						
TOTAL OF QUANTITIES				100	27.3	39.9	13.4	2751																				
STRUCTURES OVER 20' SPAN																												
53+67	Std. Conc. Through Arch	75' Span	20' Rdwy.	550	127.5	130	28	36940																			Remove old Bridge	
TOTAL OF QUANTITIES				550	127.5	130	28	36940																				
STRUCTURES FOR PRIVATE DRIVES & DRAIN TILE																												
13+45 to 13+65	V.S.P. Drain	8"	20'	2					20																		18' Rt. 30" below Gr. Line	
26+60 " 26+76	" " "	8"	16'	1					16																		18' Rt. 36" " " "	
30+53	Std. No. 1 C.B.	2'x2'																									Use std. Plan	
48+83 to 49+03	V.S.P. Drain	8"	20'	2					20																		18' Lt. 30" below Gr. Line	
54+56 " 54+76	Cor. Met. Pipe	42"	20'	18	12			250																			See plan on sheet No. 4	
69+60 " 69+80	Cor. Met. Pipe	30"	20'	15	7			150																			See plan on sheet No. 5	
80+98	Std. No. 1 C.B.	2'x2'																									Use std. Plan	
85+37 to 85+57	V.S.P. Drain	8"	20'	2					20																		18' Rt. 30" below Gr. Line	
86+72	Std. No. 1 C.B.	2'x2'																									Use std. Plan	
92+92 to 93+12	V.S.P. Drain	8"	20'	2					20																		18' Rt. 30" below Gr. Line	
104+70	Std. No. 1 Inlet	8"																									Use std. Plan	
106+15	Std. No. 1 C.B.	2'x2'																									Use std. Plan.	
TOTAL OF QUANTITIES				42	19			400	96																			

SUMMARY - ROADWAY & PAVEMENT

Type	Excavation	Berms, Slopes & Ditches	2 Course W. b. Mac 8" thick	Bit. Mac Top course 3" thick	Concret Pavement 8" in cen. 10 on side	Concrete base 4 1/4" x 6" conc 6" thick	4 1/4" x 6" conc curb 1-1/2" 3 mix	3 1/2" Brick surface
	Cu. yds.	Lin. Ft.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Lin. Ft.	Sq. yds.
A	7514	10629	19903	20131				
B	7514	10629			20131			
C	7514	10629				19903	21094	18957