

FILE A-7

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS

FED.AID DIST. No.	STATE	FED.AID PROJ.	FISCAL YEAR
10	OHIO		1929

S.H.U.C.H. 240 SEC. B
DELAWARE CO. O.

DELAWARE — BELLEFONTAINE ROAD

I.C.H. NO. 240 SEC. B. PET. NO. 6365

DELAWARE COUNTY

RADNOR — SCIOTO TOWNSHIPS.

JUNE 1929.

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 plan and estimates.

Approved: Lot D Jones
Date: 7-11-1929 Resident District Deputy Director.

Approved: H. D. McLaughlin
Date: July 12, 1929 Resident Division Deputy Director.
S. H. Highway Commissioner

Approved: _____
Date: _____ Chief Engineer
Bureau of Construction

Approved: _____
Date: _____ Chief Engineer
Bureau of Maintenance

Approved: _____
Date: _____ Chief Engineer
Bureau of Bridges

Approved: Wm. C. Richey
Date: 7/8/29 Chief Engineer

Approved: Robert W. Wain
Date: 7/8/29 Director of Highways
Public Works

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

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

Approved: _____
Date: _____ Chief of Bureau

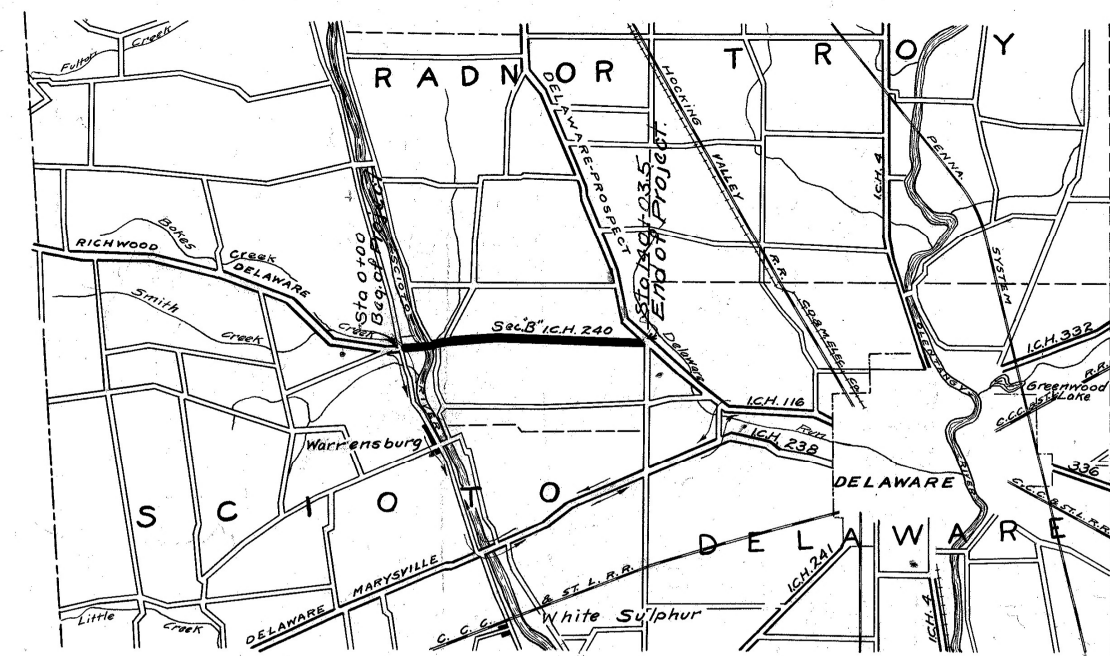
CONVENTIONAL SIGNS

- County Line
- Township Line
- Section Line
- Property Line not fenced
- Center Line
- City or Village Line
- Fence
- Telephone or Telegraph
- Steam Railroad
- Electric Line
- Guard Rail
- Drain Pipe - new
- Drain Pipe - old

We the Commissioners of Delaware 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.

J. A. Andrews
T. C. Bougill
E. E. Leppert

Date: 7-8-1929 County Commissioners



LOCATION PLAN

SCALE OF MILES

PORTION TO BE IMPROVED
DETOURS SHOWN THUS

SCALES

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

INDEX

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- Structural Plans p. 16.
- Summary Sheet p. 17.



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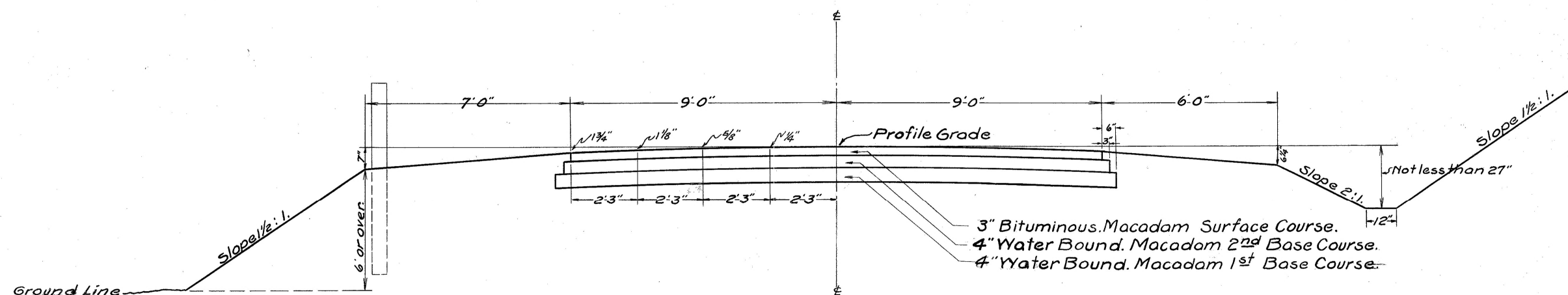
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S.H.(I.C.H.) 240. SECTION B.
DELAWARE CO. OHIO.

TYPICAL SECTION

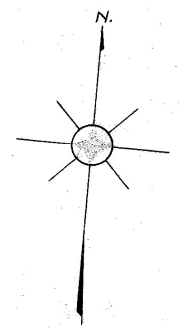
TYPE (M) B.

BITUMINOUS MACADAM



PROSPECT RD. Plot Bay, Sta. 0+00
J and H. Stiffler
2 tons stone each side Sta.
0+00 for Road Approaches.

J. & H. STIFFLER.



$\Delta = 15^{\circ}01'12''$
 $D = 20^{\circ}00'$
 $T = 37.7'$
 $E = 24.8'$
 $L = 75.08'$

Sta. 15+26 Two
Span Steel Truss Br.
18' Road-Way
No work required.
R. & E. Stiffler.

R. & E. STIFFLER

R. & E. Stiffler.
24' Conc. Slab Brg. 26' Driveway
Type G' Bailing Bridge O.K.
REFERENCE ED. No work required

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R. E. & V. MOORE.

Sta. 25+25 to 25+45
Build 40'-15" V.S.P. Encased
in concrete with Std. Conc.
Side Road Culvert Head Walls.

DUBLIN

Spike E. side 18"
Cor. Post E.P.
Hub R.P.

F. F. VANBRIMMER

Spike S.E. side 18"
Walnut R.P.
Spike S.W. side 16"
Walnut R.P.

Remove and Store on Right of Way old
Guard Rail Sta 12+28 to 13+80 152' each side
Build 152' Type D-23 Guard Rail Left.
Build 152' " D-23 " " Right.

Sta 16+50 to 16+66 Build 16' Type D-23 Grd. Rail-Left.
" 16+50 to 19+22 " 272' " D-23 " " Right.
" 17+00 to 19+08 " 208' " D-1-23 " " Left.
" 19+84 to 20+64 " 80' " D-1-23 " " " "
" 19+60 to 20+64 " 104' " D-1-23 " " Right.

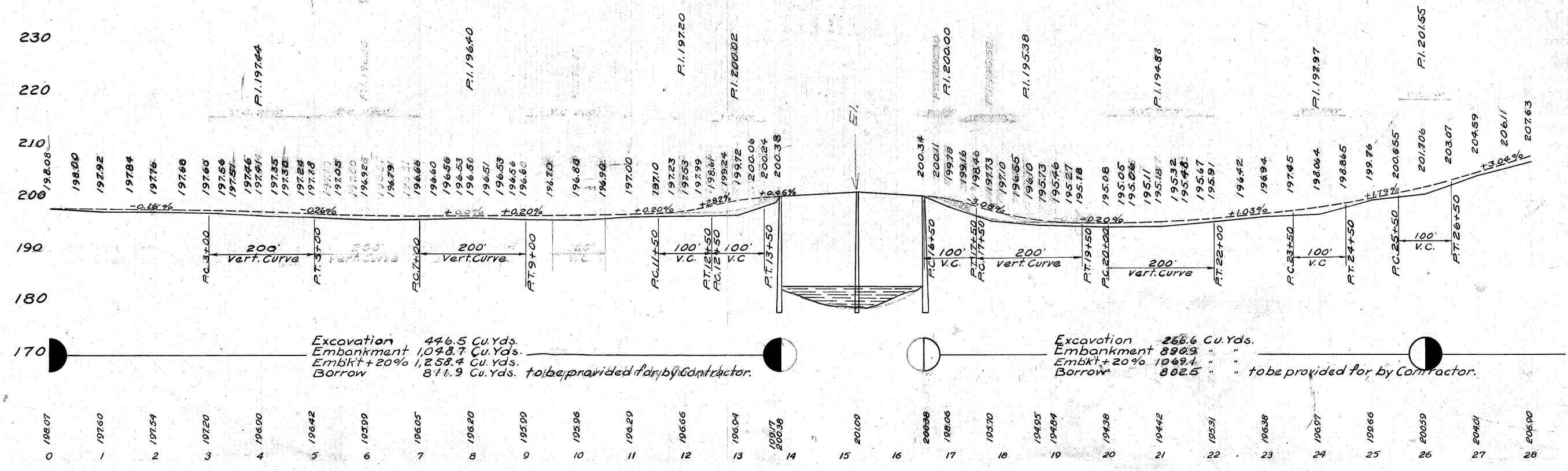
Remove and Store on Right-of-Way
old Guard Rail Sta 24+56 to 24+72
Build 16' Type D-23 Grd. Rail-Right.
Remove and Store on Right-of-Way
old Guard Rail Sta. 24+95 to 25+75
Build 80' Type D-23 Grd Rail-Right.
Build 24' Type D-23 " " -Left.
Sta 24+95 to 25+19.

B.M.
S.E. Corner S.E. Wing Wall
Bridge 150 ft. N of Sta.
0+00 Elev. 200' (Assumed)

B.M.
On S.W. Cor. 2nd Stone
from top S. Wing of R.
abutment. Elev. 199.14

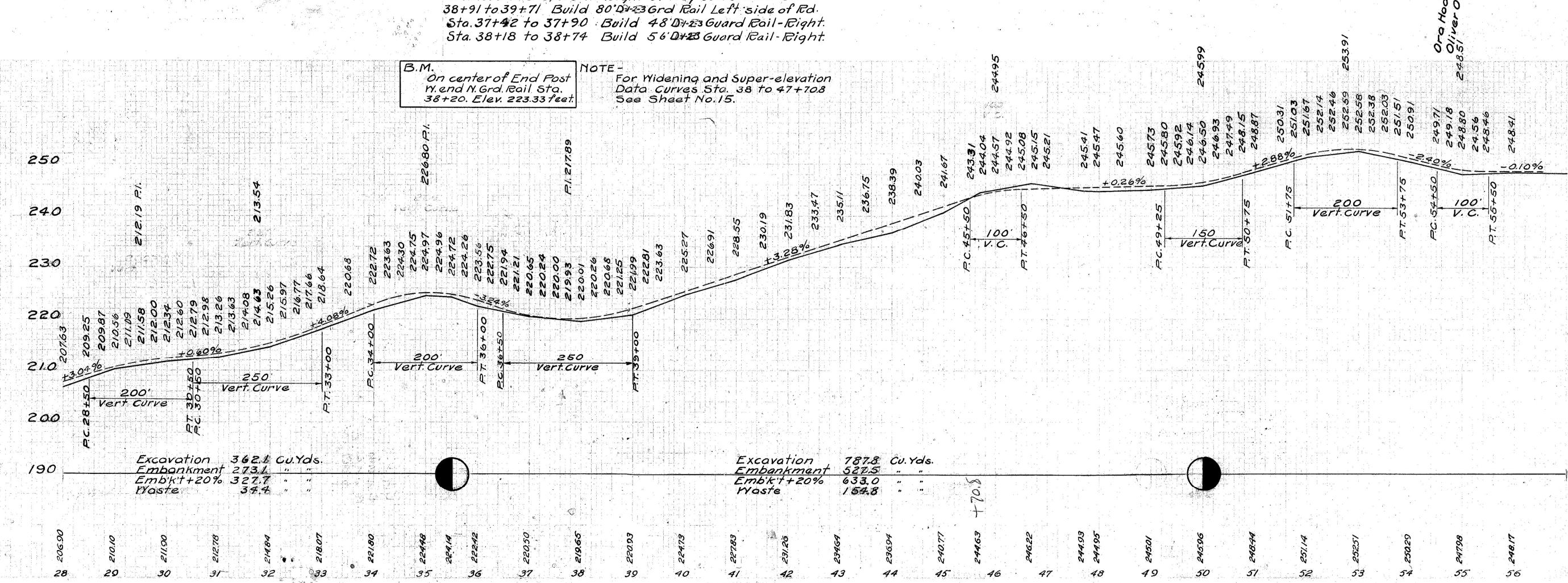
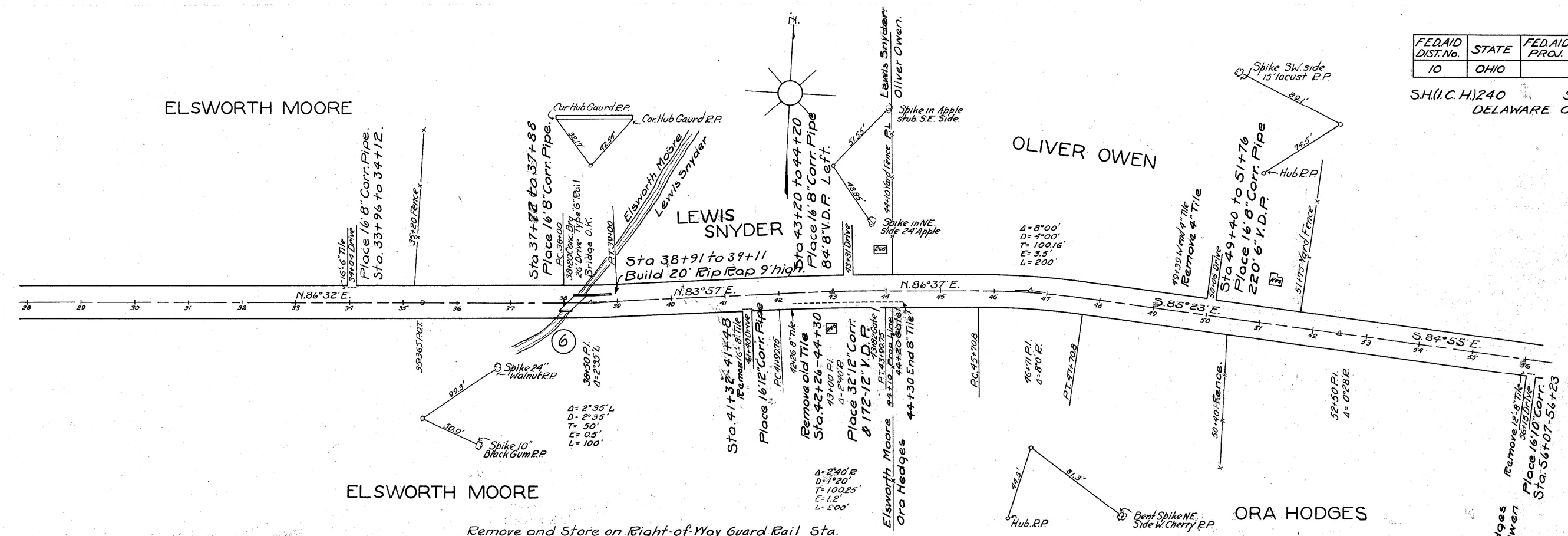
Note -
For Widening and Super-elevation
Data Curves Sta 12 to Sta 19+
See Sheet No. 15.

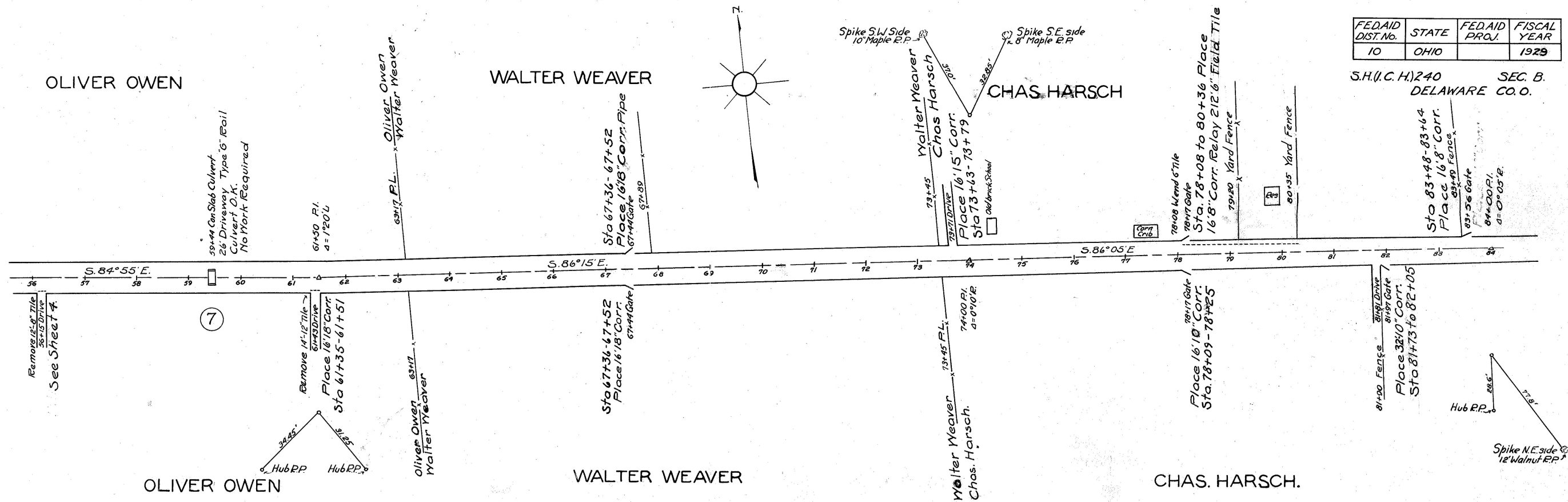
B.M.
On center End Post E. end
N. Guard Rail Bridge Sta.
24+83 Elevation 202.87



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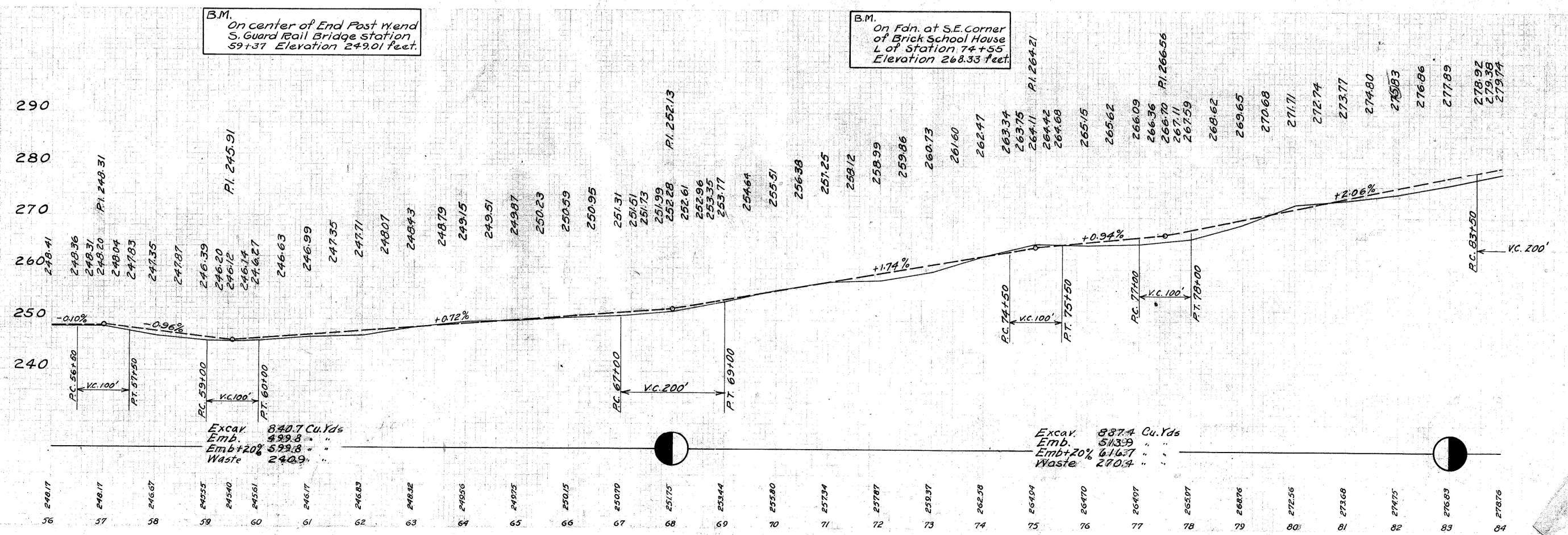
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DELAWARE CO.O.



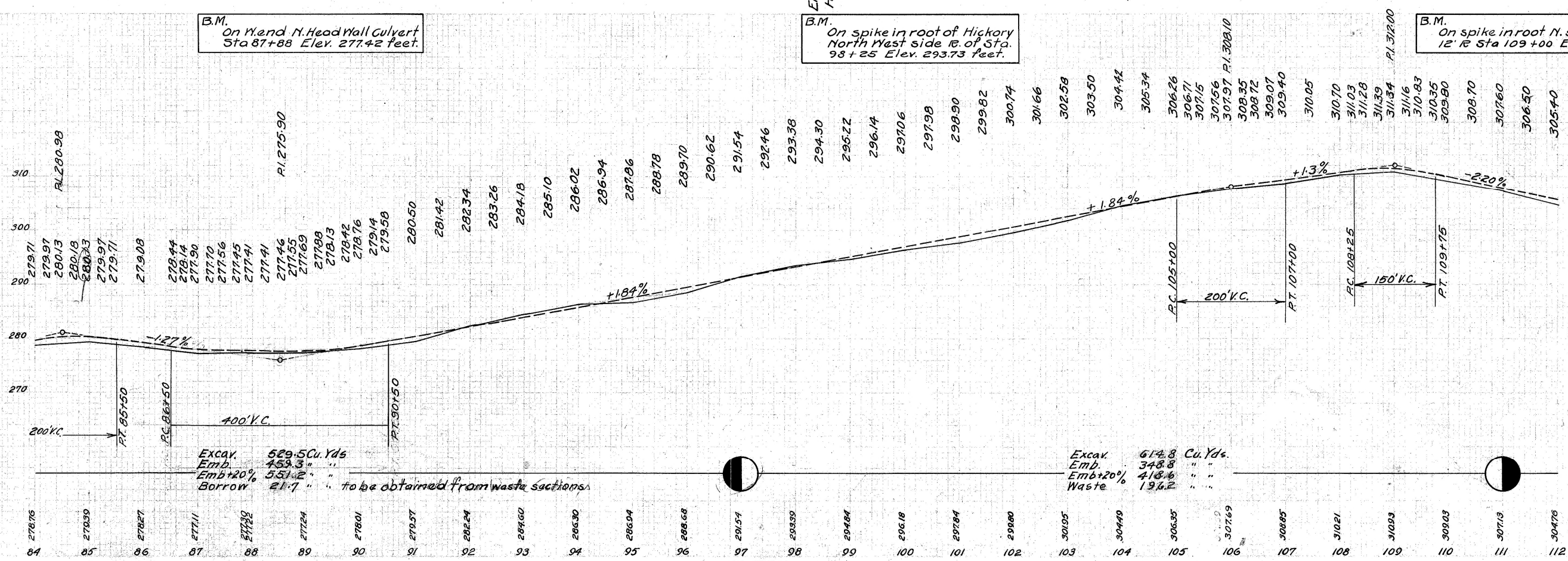
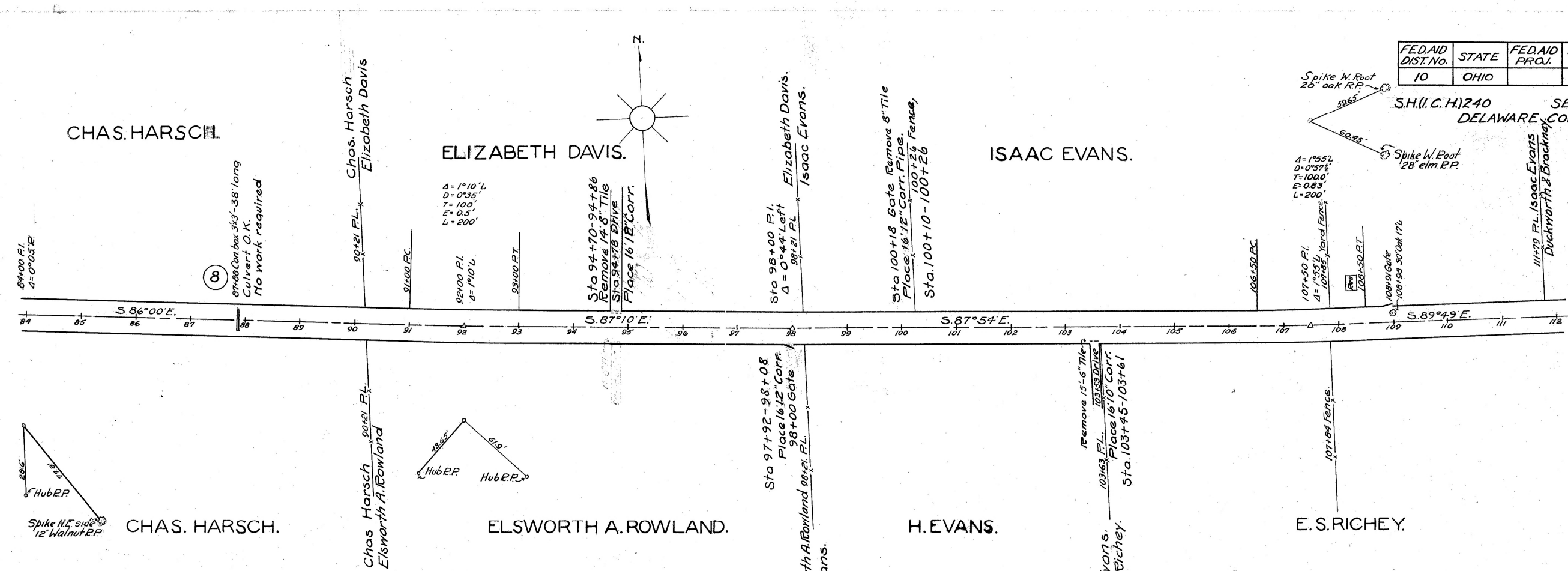


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B.M.
On W. end N. Head Wall Culvert
Sta 87+88 Elev. 277.42 feet.

B.M.
On spike in root of Hickory
North West side R. of Sta.
98+25 Elev. 293.73 feet.

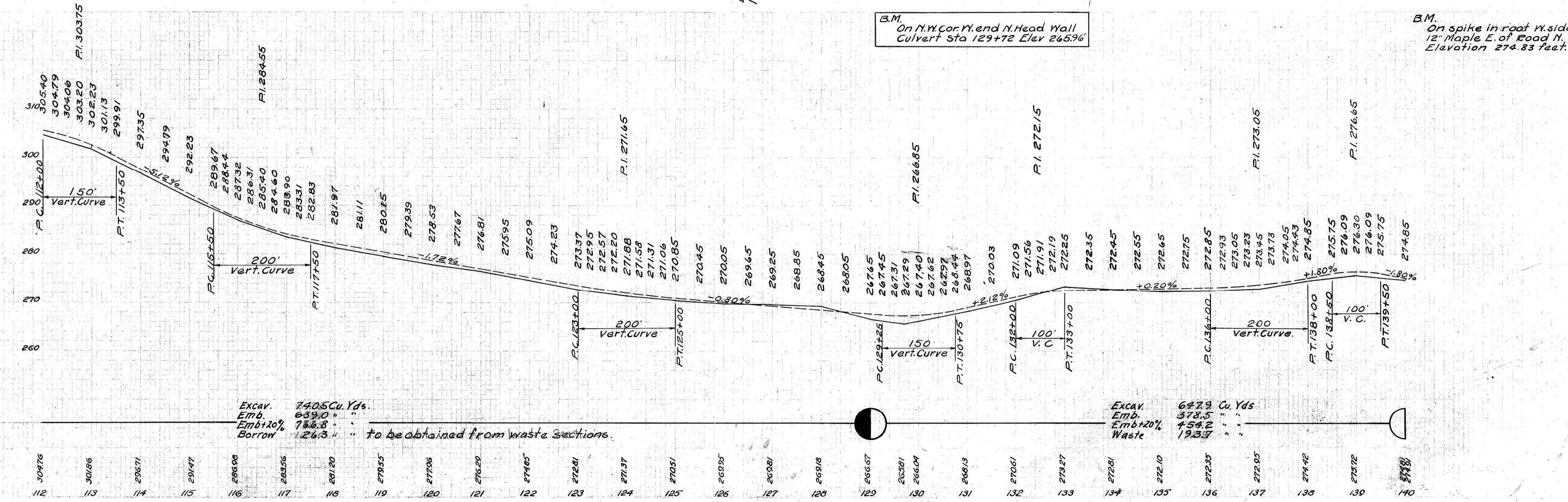
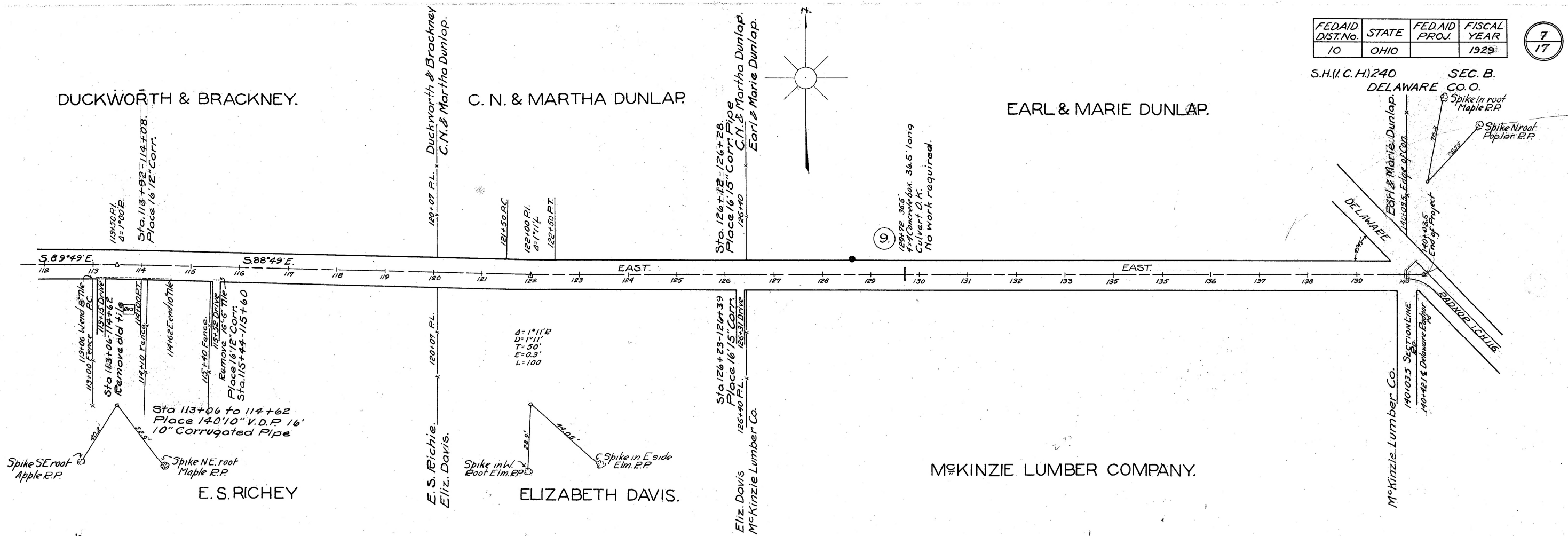
B.M.
On spike in root N. side 40" Oak
12' R Sta 109+00 Elev. 311.05 ft.

Excav. 529.5 Cu. Yds.
Emb. 459.3 " "
Emb + 20% 551.2 " "
Borrow 21.7 " " to be obtained from waste sections.

Excav. 614.8 Cu. Yds.
Emb. 348.8 " "
Emb + 20% 418.6 " "
Waste 196.2 " "

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SEC. B.



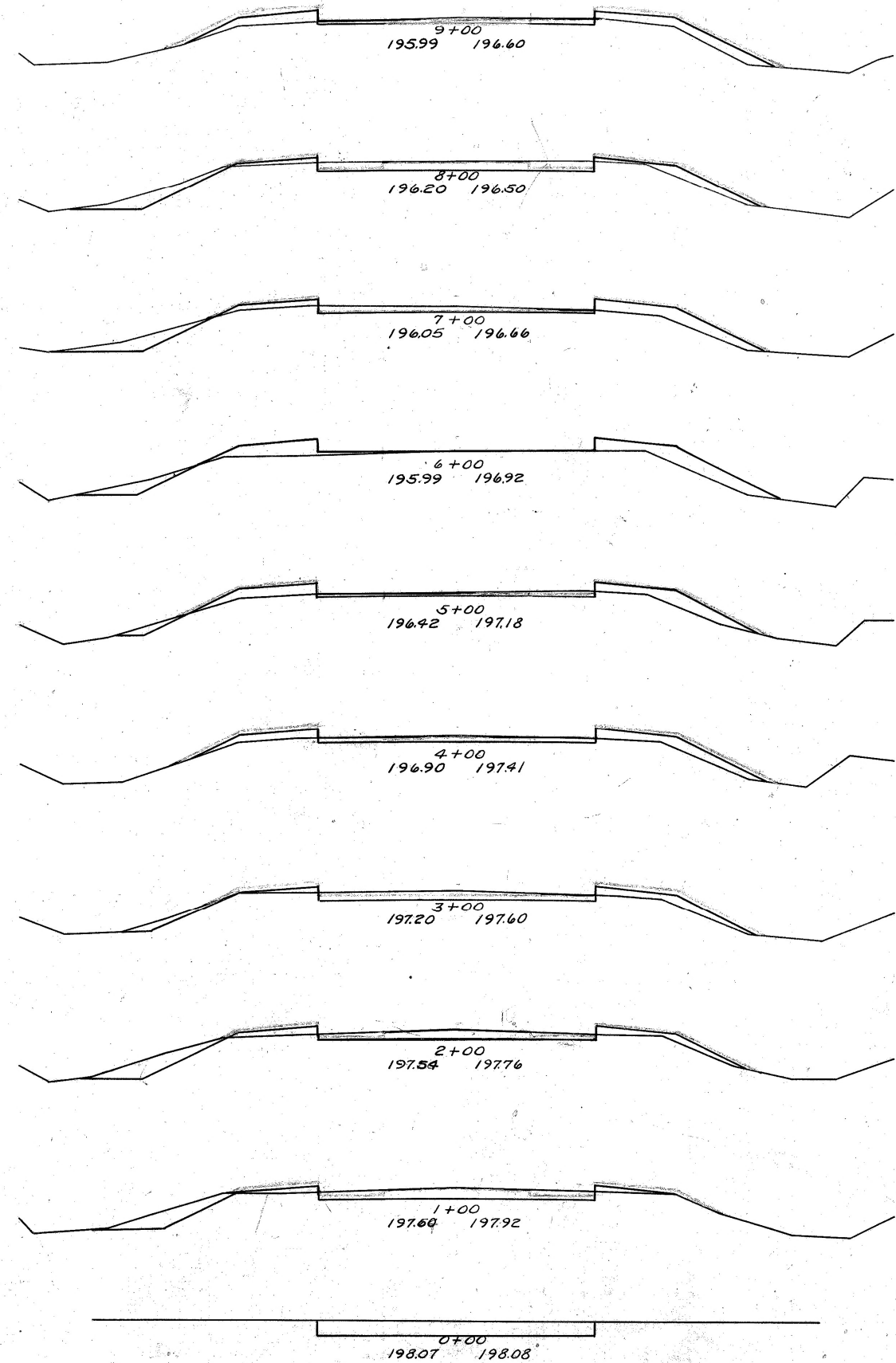
B.M.
On N.W. cor. N. end N. Head Wall
Culvert Sta 129+72 Elev 265.96'

B.M.
On spike in root N. side
12' Maple E. of Road N.
Elevation 274.83 feet.

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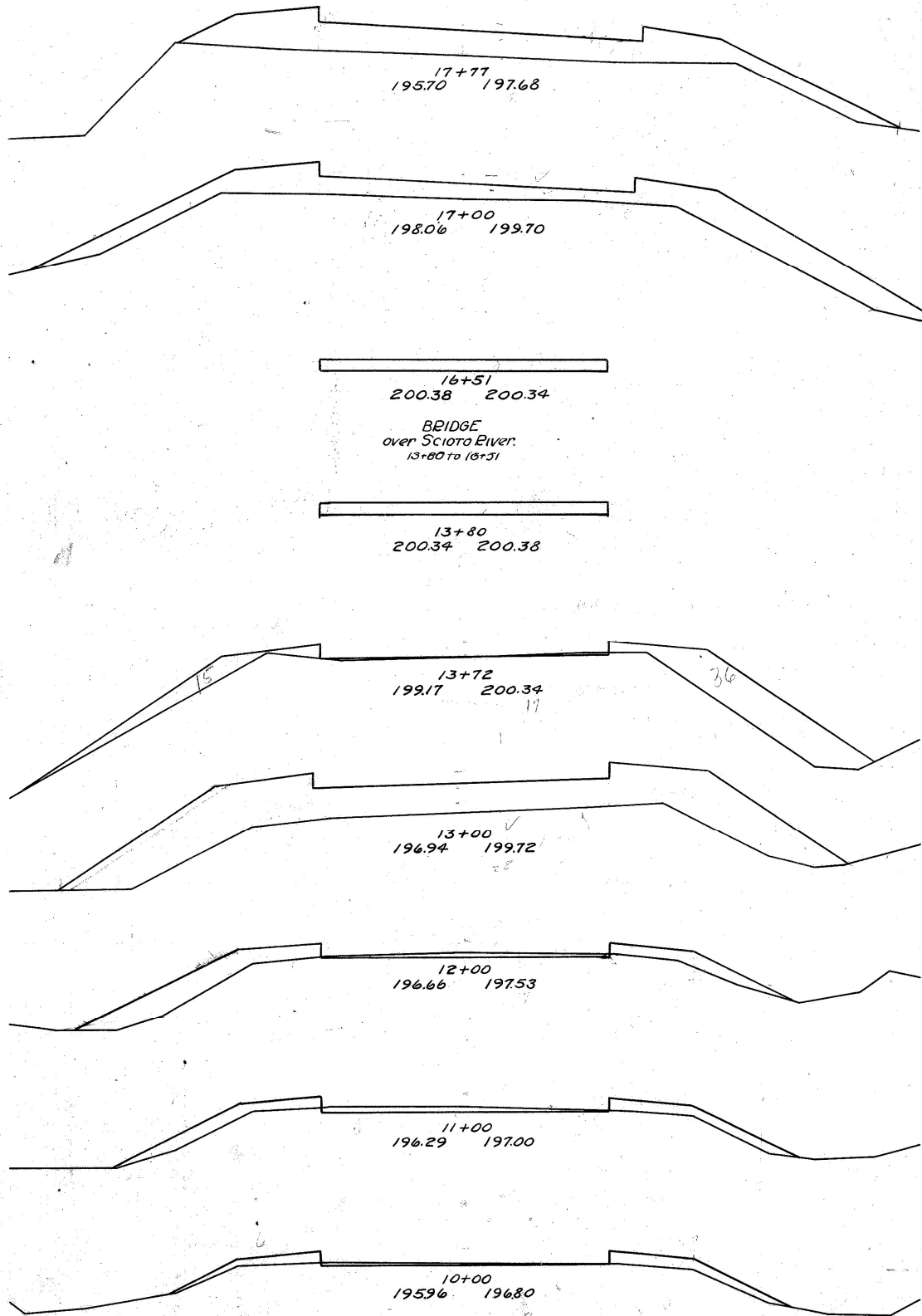
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SH.(I.C.H.)240 SEC. B.
DELAWARE CO.O.



Excavation 446.5 Cubic Yards.
Embankment 0+8.7
Embk't +20% 1258.4
Borrow 811.9

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		16.7	41.7
		-	-
7.0	10.5		
		43.5	52.4
16.5	7.0		
		49.1	33.3
10.0	11.0		
		25.0	53.7
3.5	18.0		
		17.6	57.4
6.0	13.0		
		24.1	45.9
7.0	11.5		
		37.0	36.0
13.0	8.0		
		54.6	27.8
16.5	7.0		
		67.6	17.6
20.0	2.5		
		72.2	4.6
19.0	-		



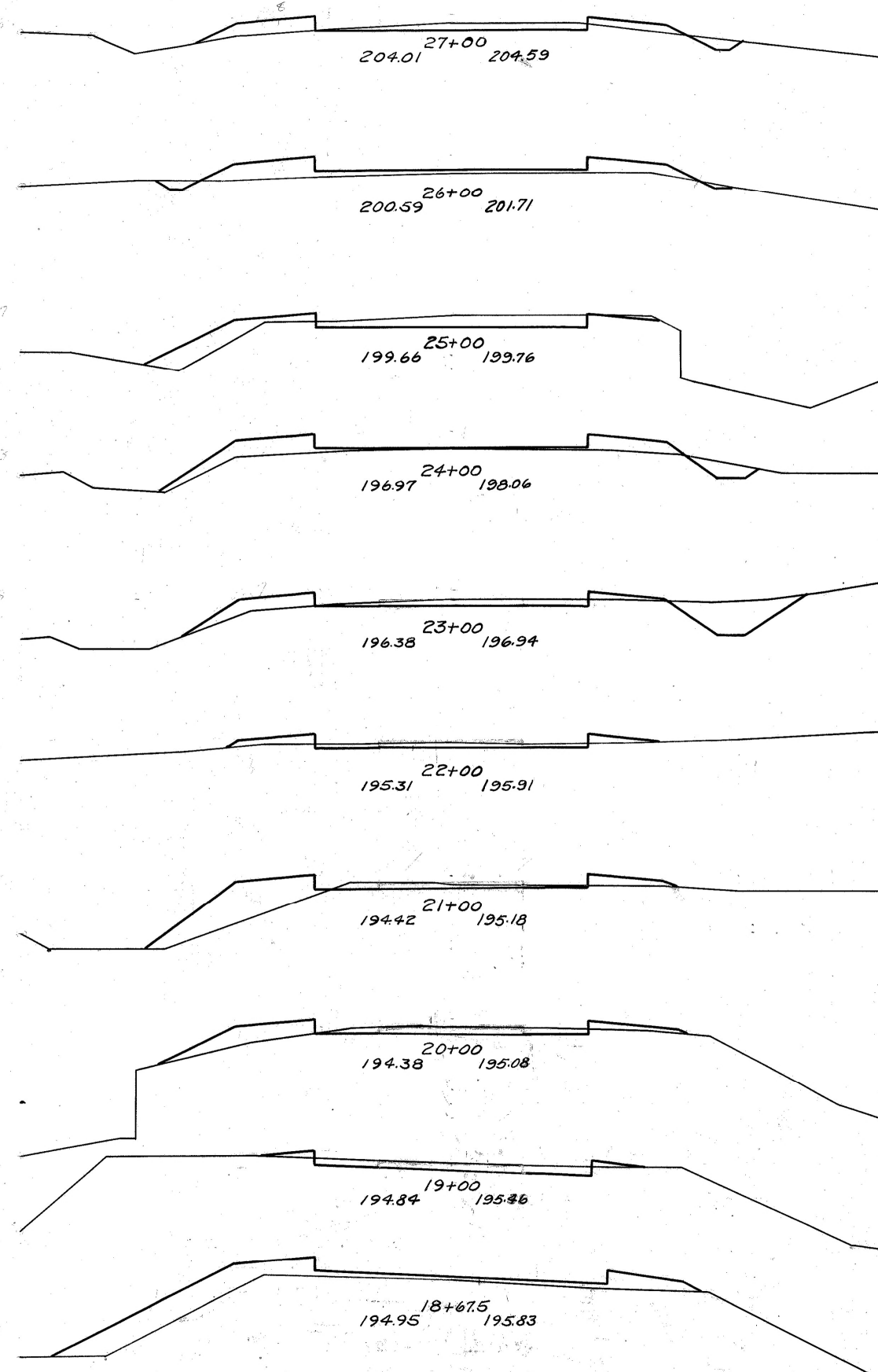
BRIDGE
over Scioto River
13+80 to 16+31

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
			0 199.5
-	72.0		
			223.9
-	80.0		
			109 72.5
12.0	-		
			BRIDGE
15.0	-		
			2.0 7.9
0.0	51.0		
			241.3
0.0	13.0		
			7.4 300.0
4.0	32.0		
			16.7 93.5
5.0	18.5		
			13.0 56.5
2.0	12.0		

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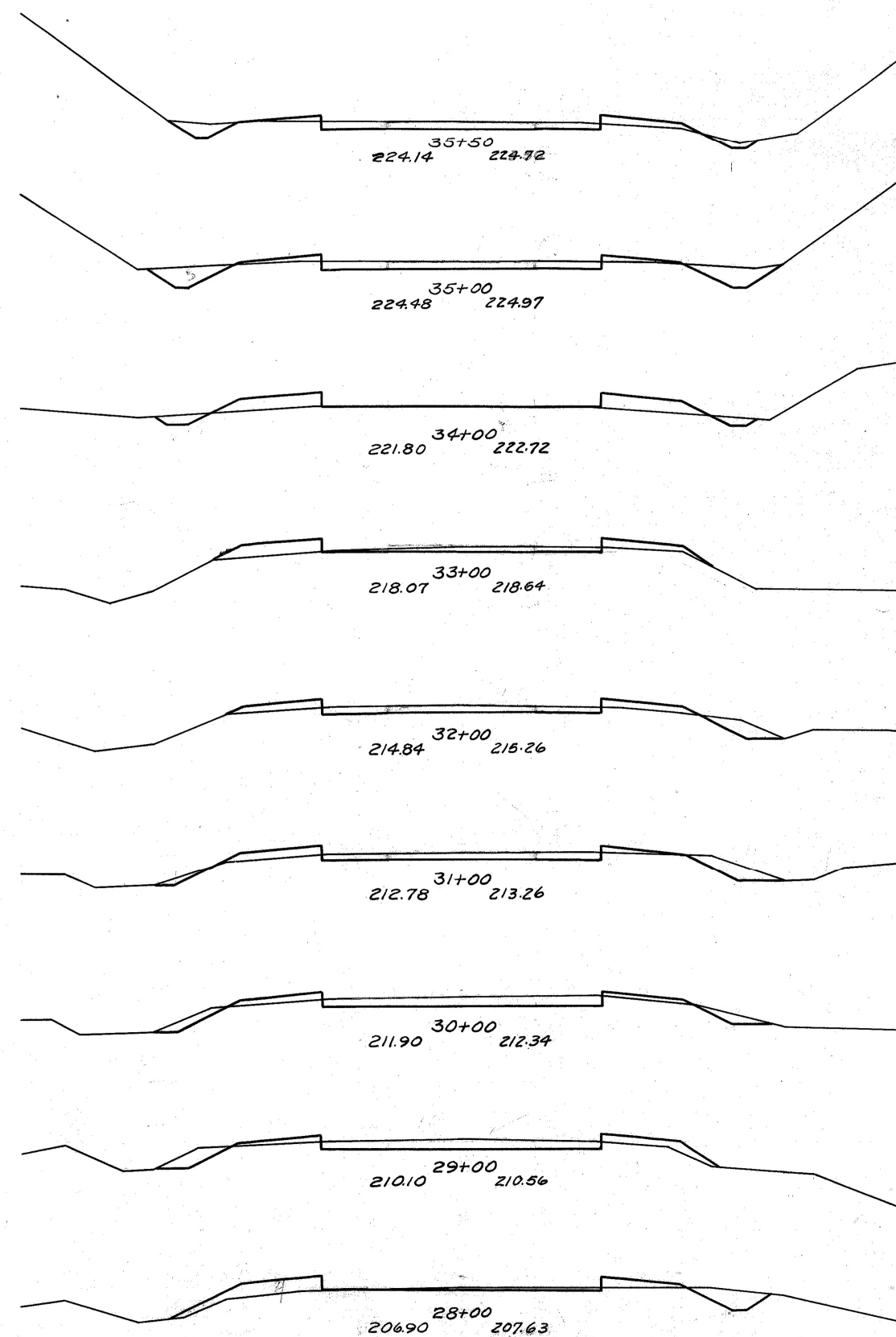
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S.H.(C.H.)240 SEC. B.
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Excav. 266.6 Cu. Yds.
Emb. 890.9 " "
Emb. +20% 10.634 " "
Borrow 802.5 " "

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		30.6	31.5
9.5	10.5		
		204.683	
1.5	21.0		
		29.6	60.2
14.5	11.5		
		34.3	61.1
4.0	21.5		
		46.3	56.5
21.0	9.0		
		52.8	26.8
7.5	5.5		
		26.8	61.1
7.0	27.5		
		27.8	75.0
8.0	13.0		
		32.4	27.8
9.5	2.0		
		5.7	26.5
0	4.0		



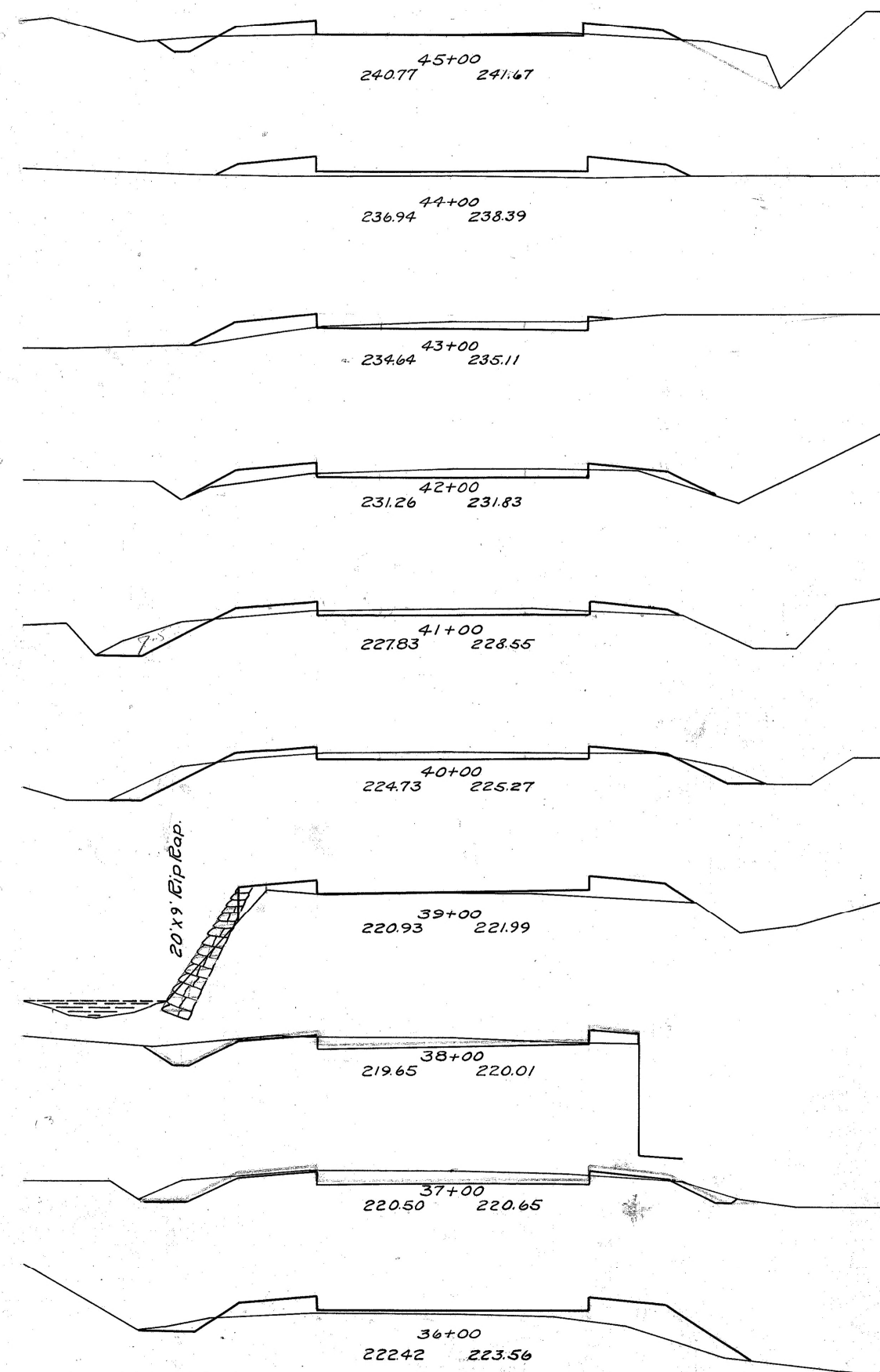
Excav. 362.1 Cu. Yds.
Emb. 243.1 " "
Emb. +20% 327.7 " "
Waste 39.4 " "

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		12.0	32.0
11.0	3.5		
		27.8	5.6
19.0	2.5		
		40.7	27.8
3.0	12.5		
		13.9	40.7
4.5	9.5		
		32.4	28.7
13.0	6.0		
		50.0	20.4
14.0	5.0		
		55.6	18.5
16.0	5.0		
		53.7	19.4
13.0	5.5		
		37.0	22.2
7.0	6.5		

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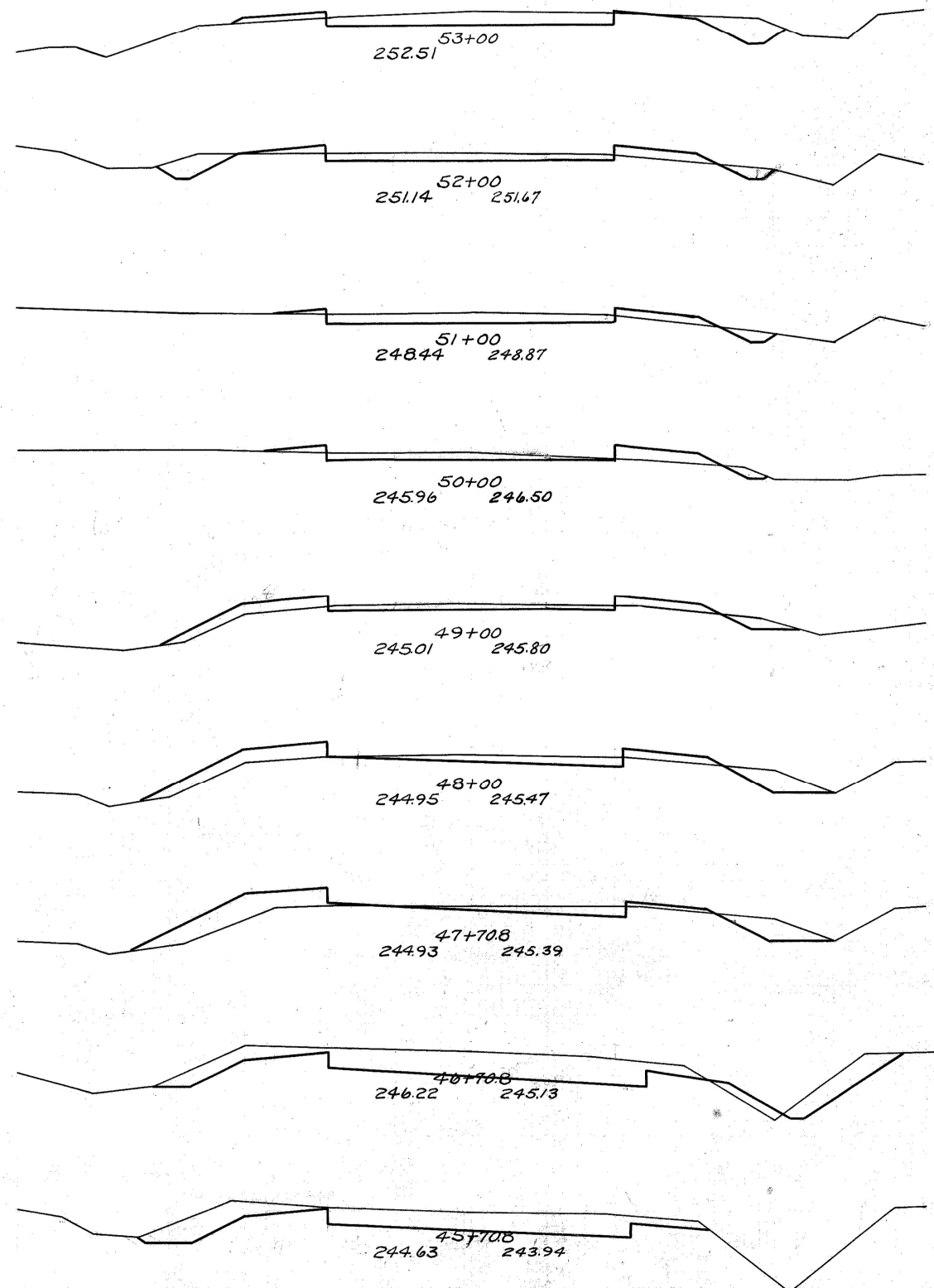
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S.H.(I.C.H.) 240 SEC. B
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Excavation 787.2 Cu. Yds.
Embankment 527.5 " "
Embankment 20% 63.0 " "
Waste 154.8

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
2.5	9.0		
		4.6	59.3
0	23.		
		14.8	58.3
8.0	8.5		
		31.5	34.3
9.0	10.0		
		43.5	30.6
14.5	4.5		
		50.9	20.4
13.0	4.5		
		24.1	39.8
0	17.0		
		29.6	36.1
16.0	2.5		
		79.6	8.3
25.5	2.0		
		50.9	61.1
2.0	0		

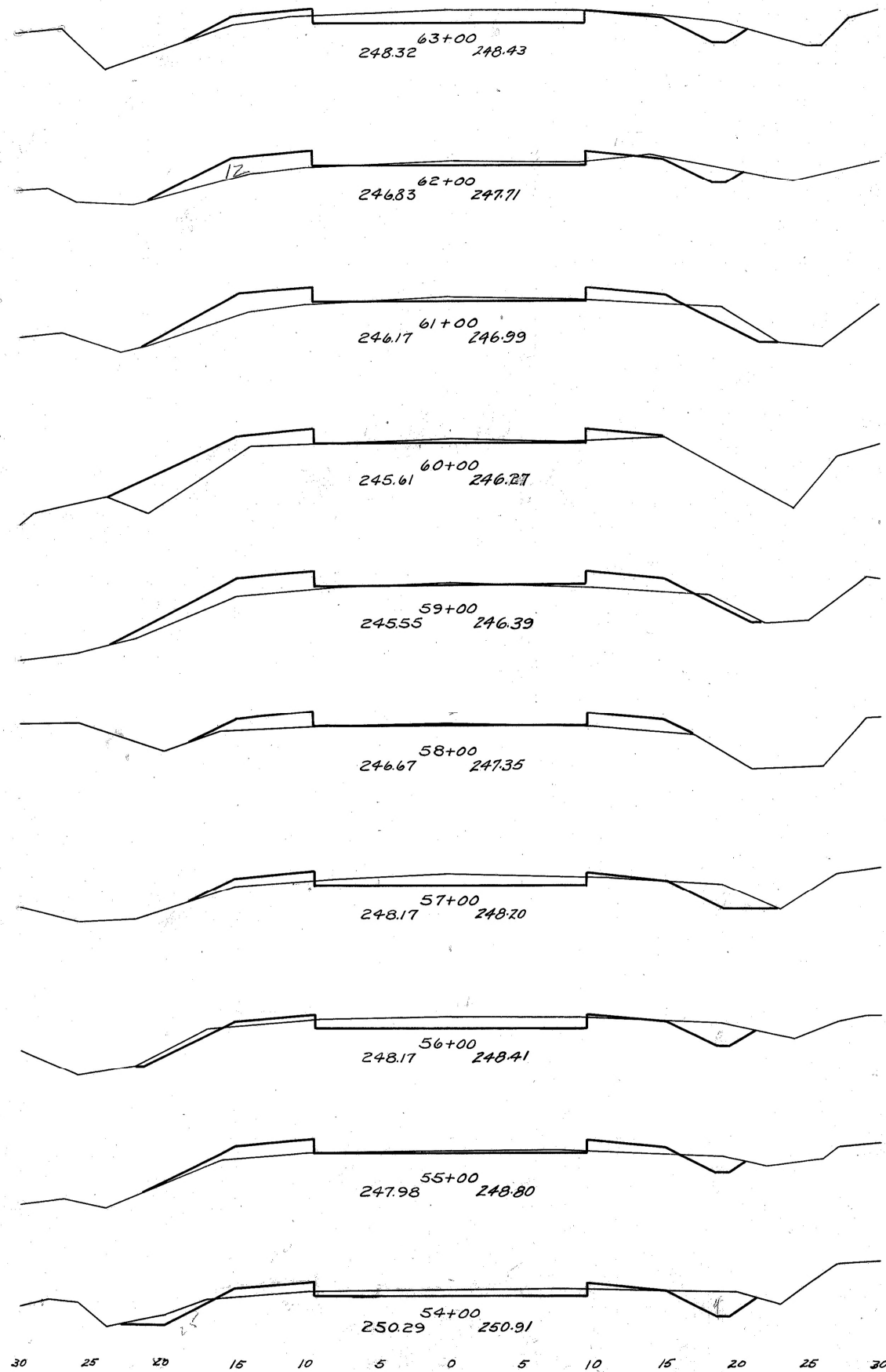


End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
21.5	3.0		
		63.9	14.8
13.0	5.0		
		45.4	15.7
11.5	3.5		
		36.1	19.4
8.0	7.0		
		34.3	33.3
10.5	11.0		
		43.5	45.4
13.0	13.5		
		13.5	16.0
12.0	16.0		
		126.9	35.2
56.5	3.0		
		175.0	5.6
38.0	0		
		53.1	11.8

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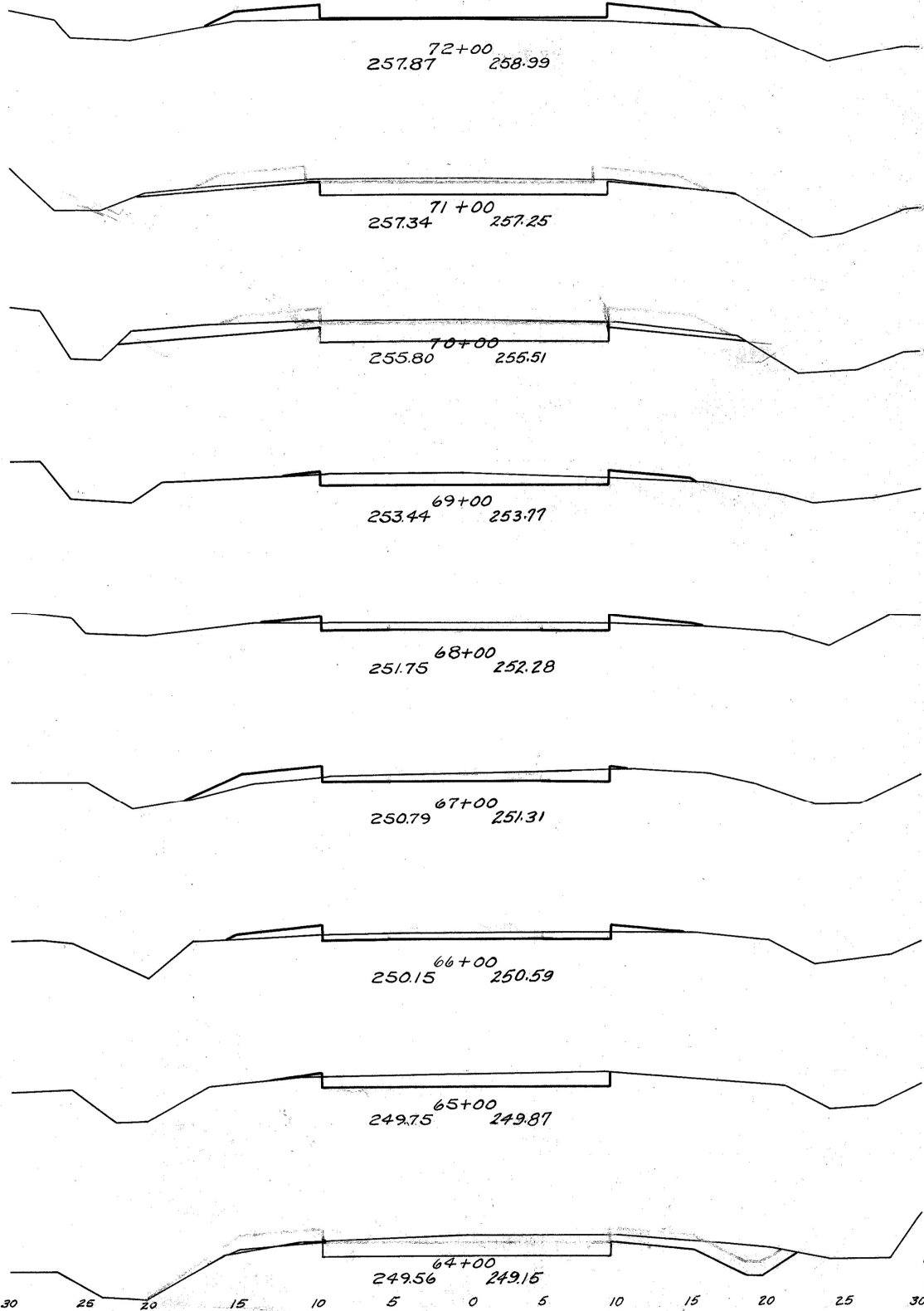
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SH.(I.C.H.)240 SEC. B.
DELAWARE CO.O.



Excav. 840.7 Cu Yds.
Emb. 499.8
Emb. +20% 599.8
Waste 240.9

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
21.5	3.0	106.5	7.4
8.0	13.5	54.6	30.6
7.0	16.0	27.8	54.6
2.0	24.5	16.7	75.0
2.0	17.0	7.4	79.6
1.0	17.0	5.6	53.7
19.0	4.0	37.0	29.6
22.0	2.0	50.0	22.2
5.0	10.0	37.0	27.8
15.0	5.0	67.6	14.8

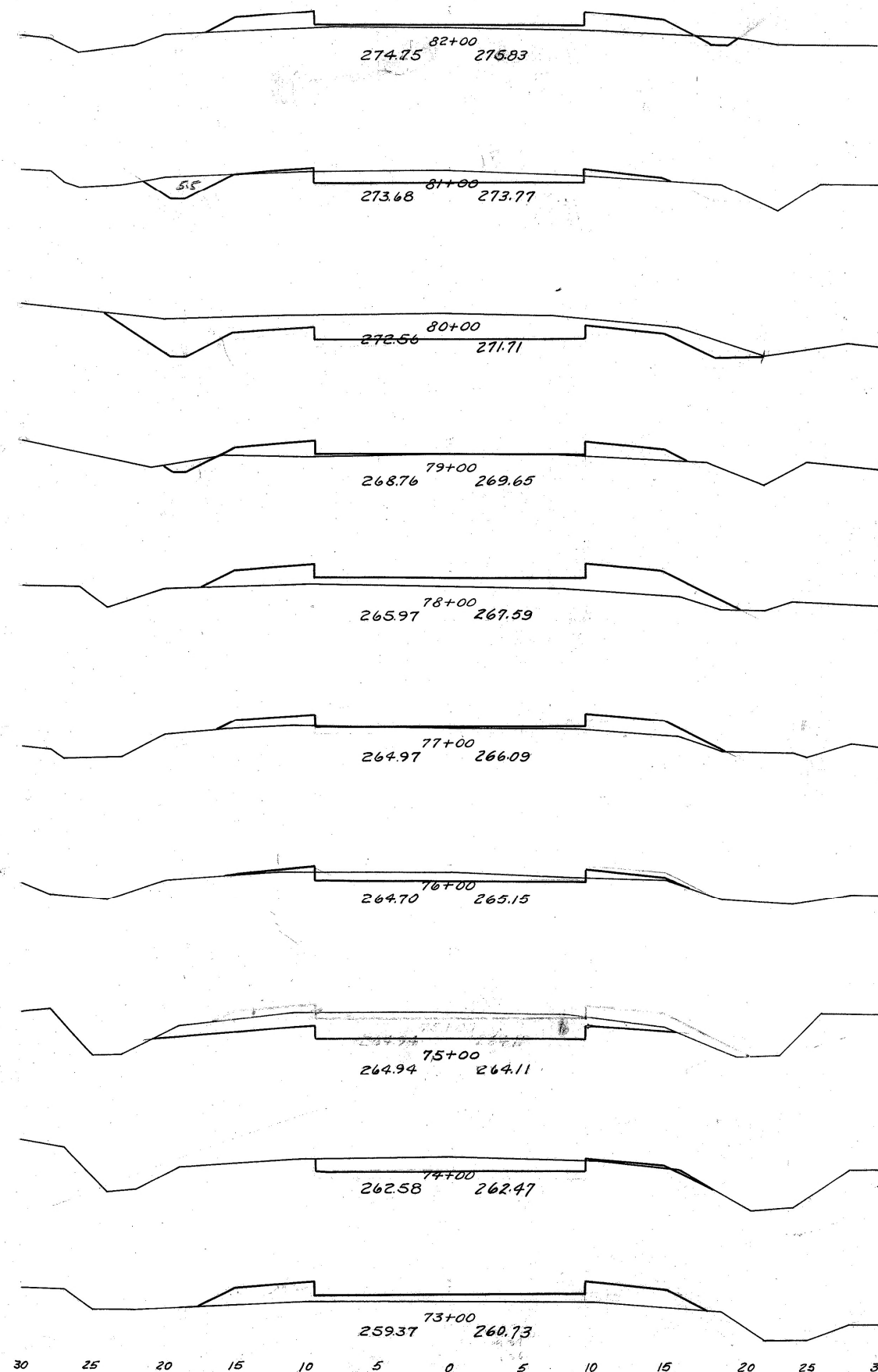


End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
0	14.0	44.4	25.9
24.0	0.0	116.7	1.7
3.9	1.0	98.1	4.6
14.0	2.5	42.6	11.1
9.0	3.5	37.0	15.7
11.0	5.0	35.2	16.7
8.0	4.0	42.6	8.3
15.0	0.5	94.4	2.8
36.0	1.0		

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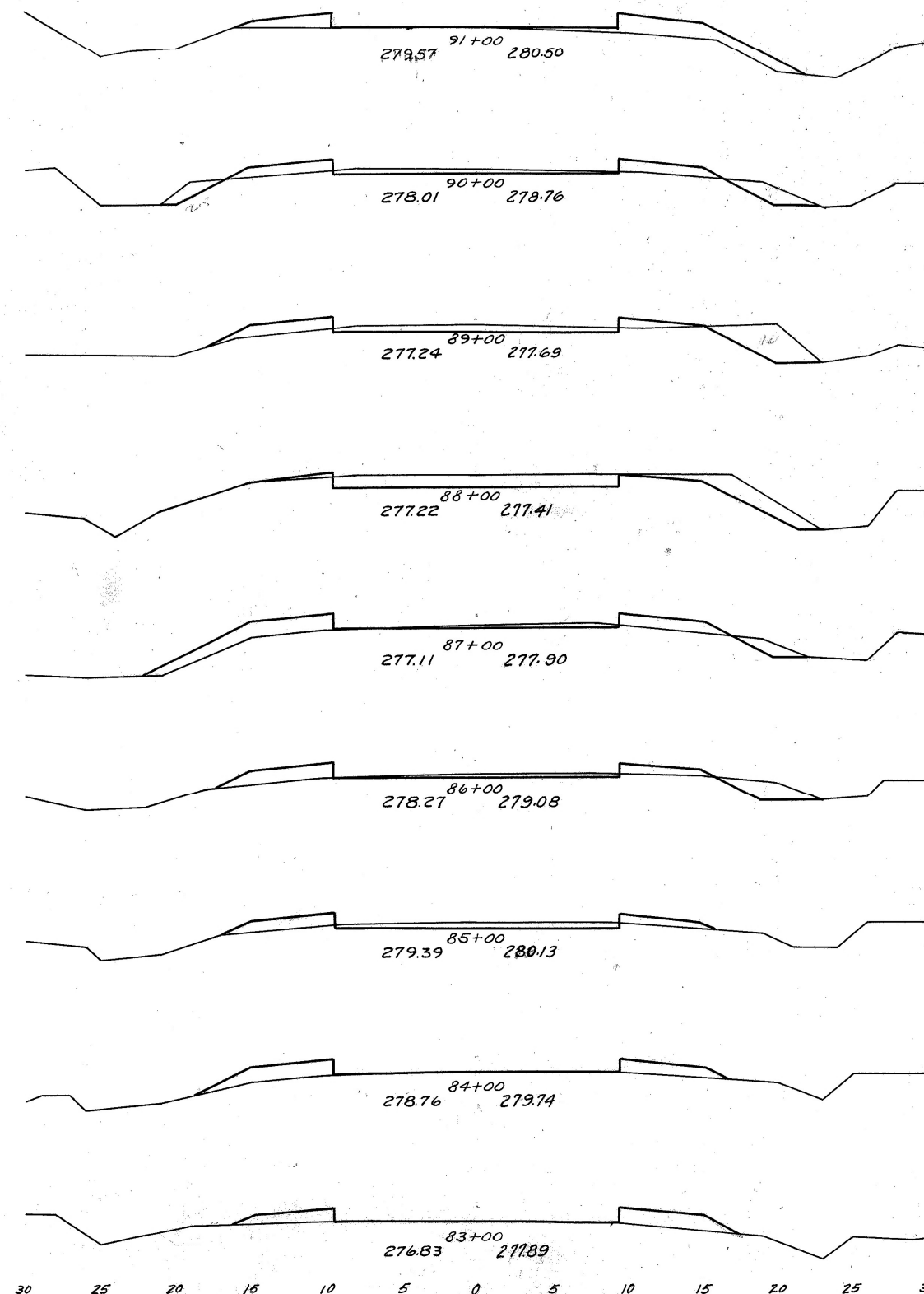
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S.H.(I.C.H.)240 SEC. B.
DELAWARE CO. O.



Excav. 897.1 Cu Yds.
Emb. 513.9 " "
Emb + 20% 616.7 " "
Waste 270.4

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		19	500
1.0	17.0		
		36.1	37.0
18.6	3.0		
		154.6	5.6
65.0	0		
		122.2	22.2
1.0	12.0		
		1.9	90.7
0	37.0		
		0	935
0	13.5		
		17.6	30.6
9.5	3.0		
		102.8	5.6
46.0	0		
		116.7	0
17.0	0		
		31.5	55.6
0	30.0		
		0	81.5



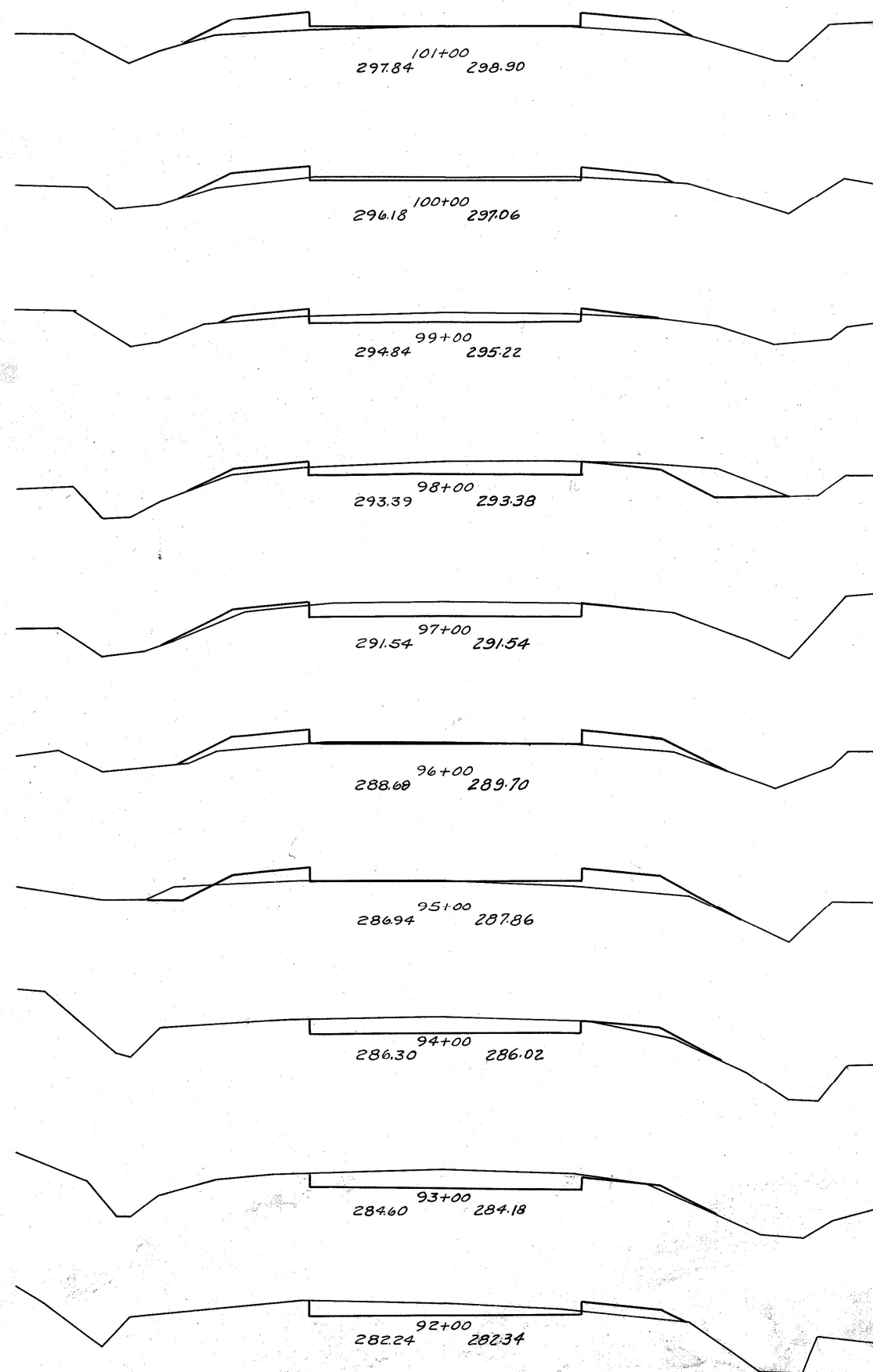
Excav. 529.5 Cu Yds.
Emb. 499.3 " "
Emb + 20% 599.2 " "
Borrow 21.7

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		0	18.0
			250.51.9
13.5	0		
		56.5	30.0
17.0	6.5		
		75.9	13.9
24.0	1.0		
		53.7	29.6
5.0	15.0		
		21.8	44.4
10.0	9.0		
		28.7	29.6
5.5	7.0		
		10.2	31.5
0	10.0		
		0	37.0
0	10.0		

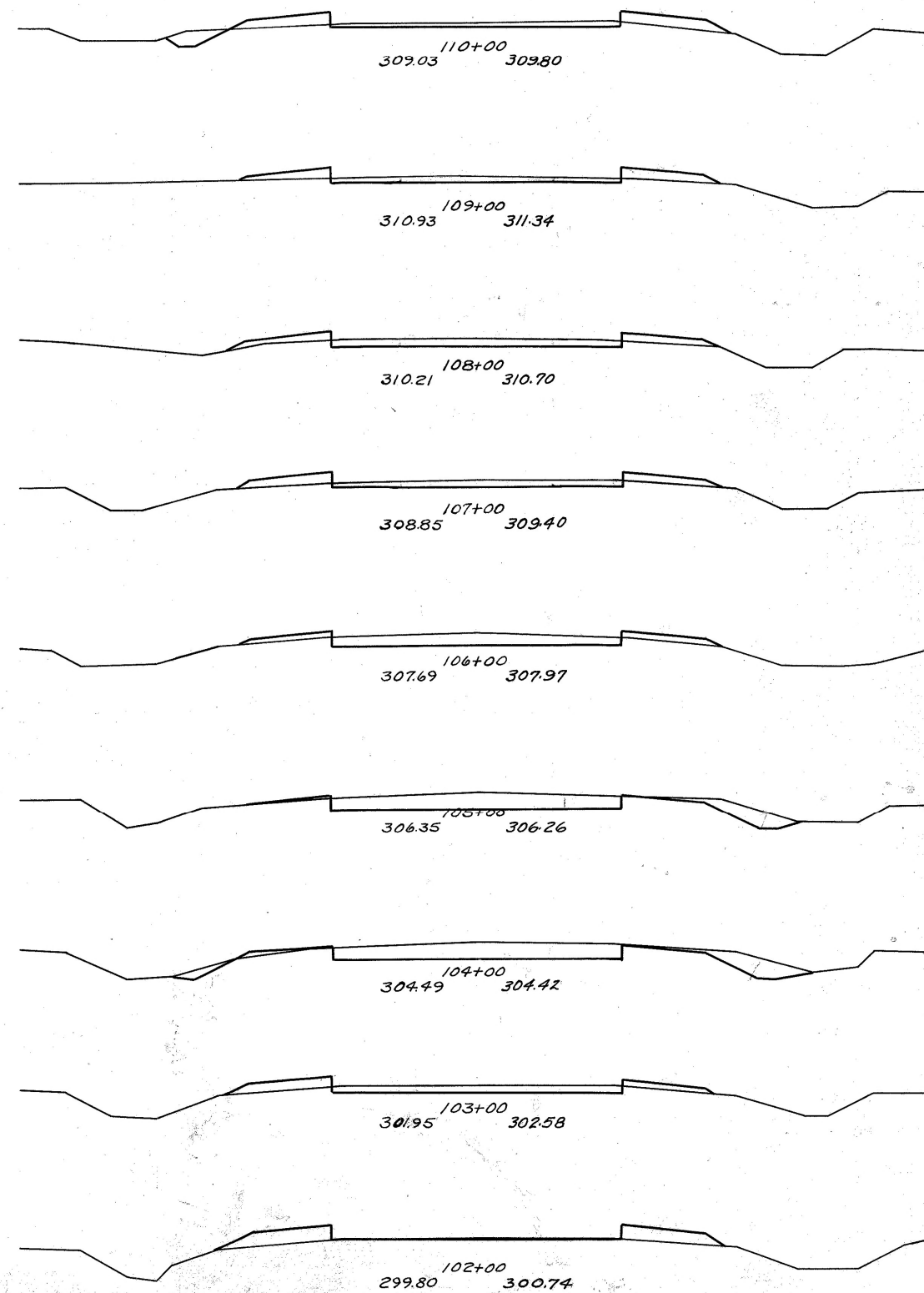
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End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
0	14.0		
		10.2	44.4
5.5	10.0		
		32.4	27.8
12.0	5.0		
		74.1	16.7
28.0	4.0		
		85.2	14.8
18.0	4.0		
		33.3	32.4
0	13.5		
		4.6	56.5
2.5	17.0		
		43.5	38.9
21.0	4.0		
		79.6	9.3
22.0	1.0		
		65.7	11.1
13.5	5.0		
		25.0	42.6



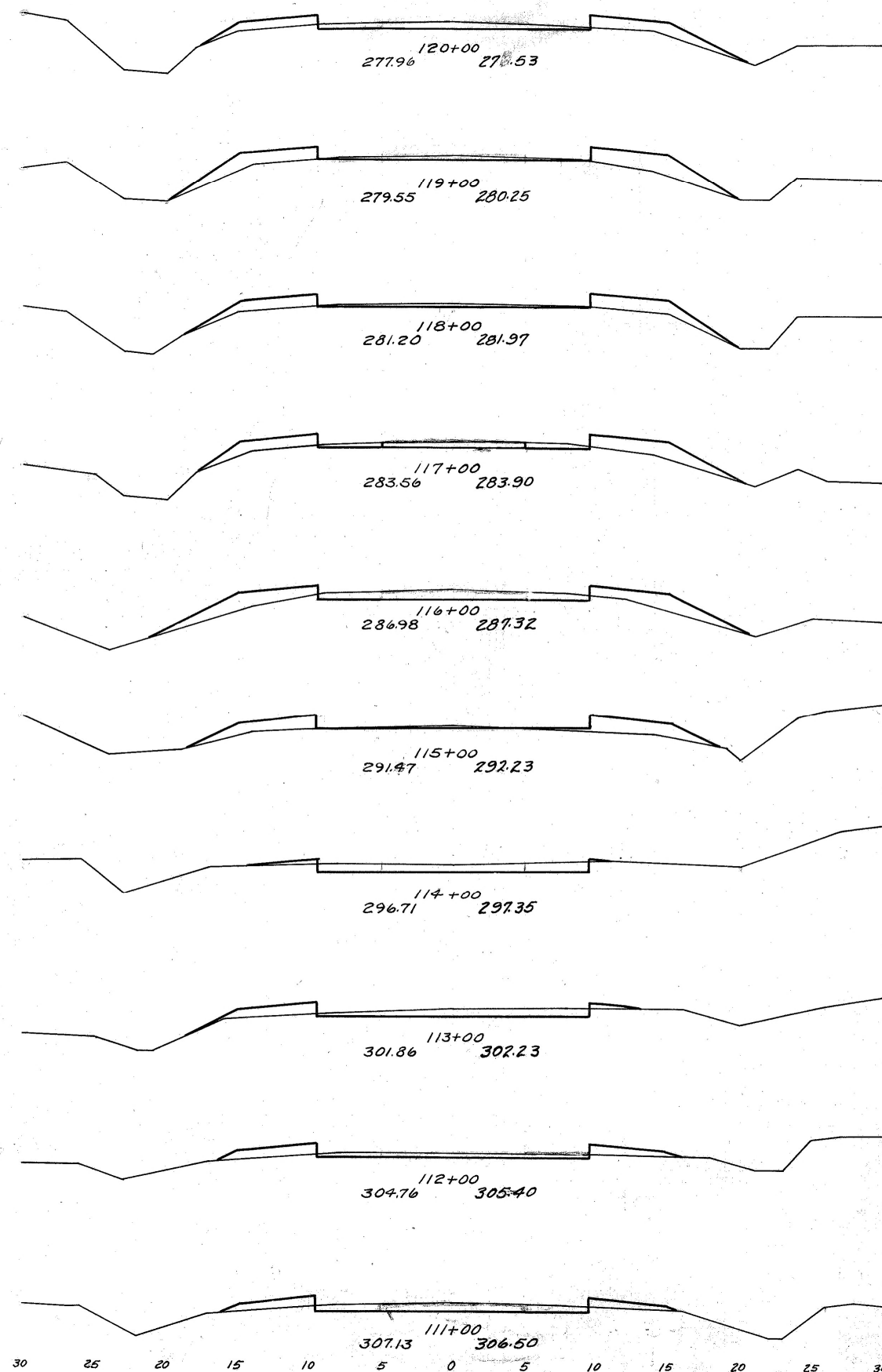
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
		35.2	29.6
8.0	9.5		
		25.9	29.6
6.0	6.5		
		29.6	23.1
10.0	6.0		
		30.6	23.1
6.5	6.5		
		39.8	22.2
15.0	5.5		
		74.1	11.1
25.0	0.5		
		97.2	3.7
27.5	1.5		
		65.7	15.7
8.0	7.0		
		14.8	37.0
0	13.0		
		0	50.0

Excav. 614.8 Cu. Yds.
Emd. 348.8 " "
Emd. + 20% 418.6 " "
Waste 196.2 " "

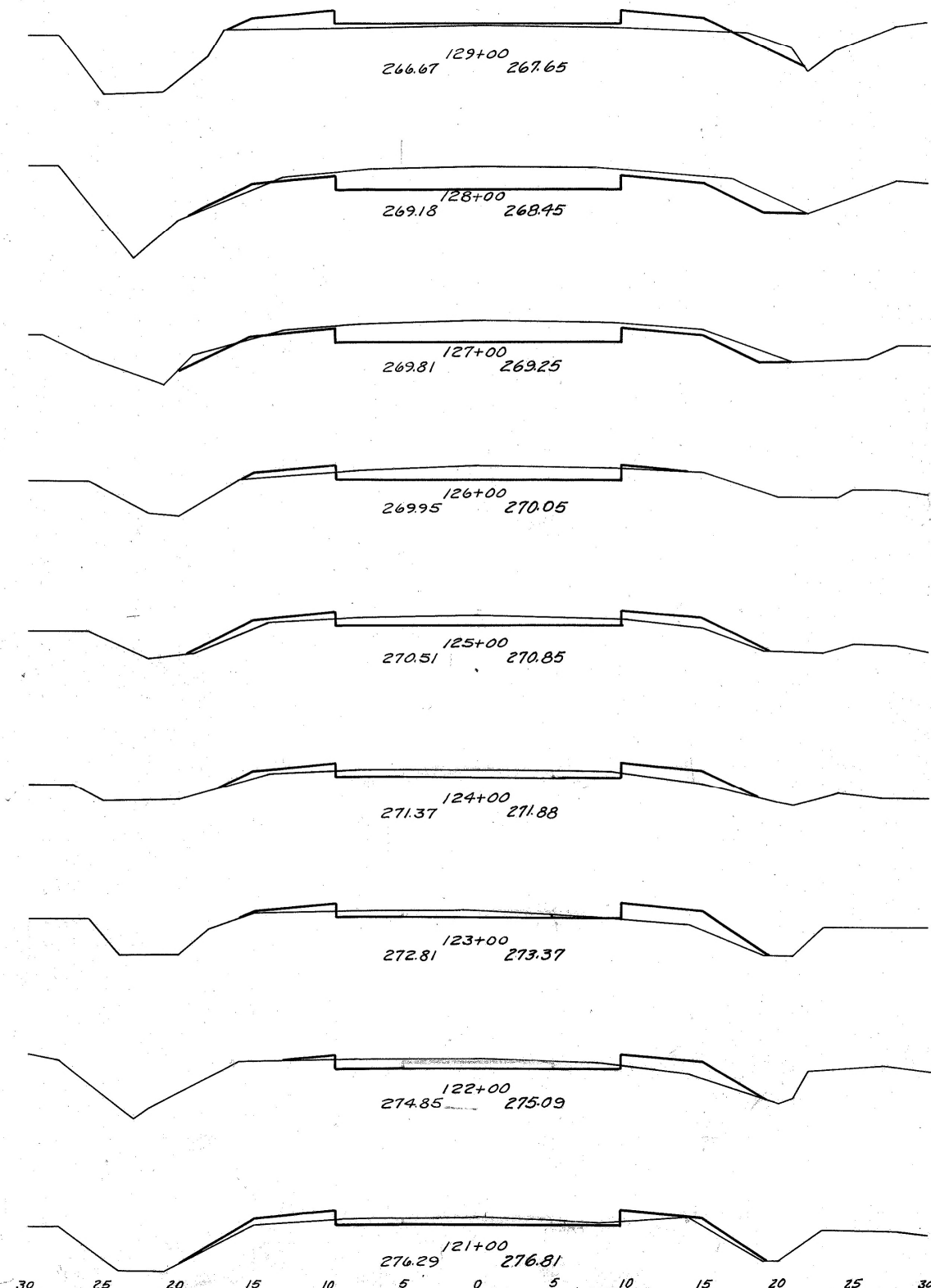
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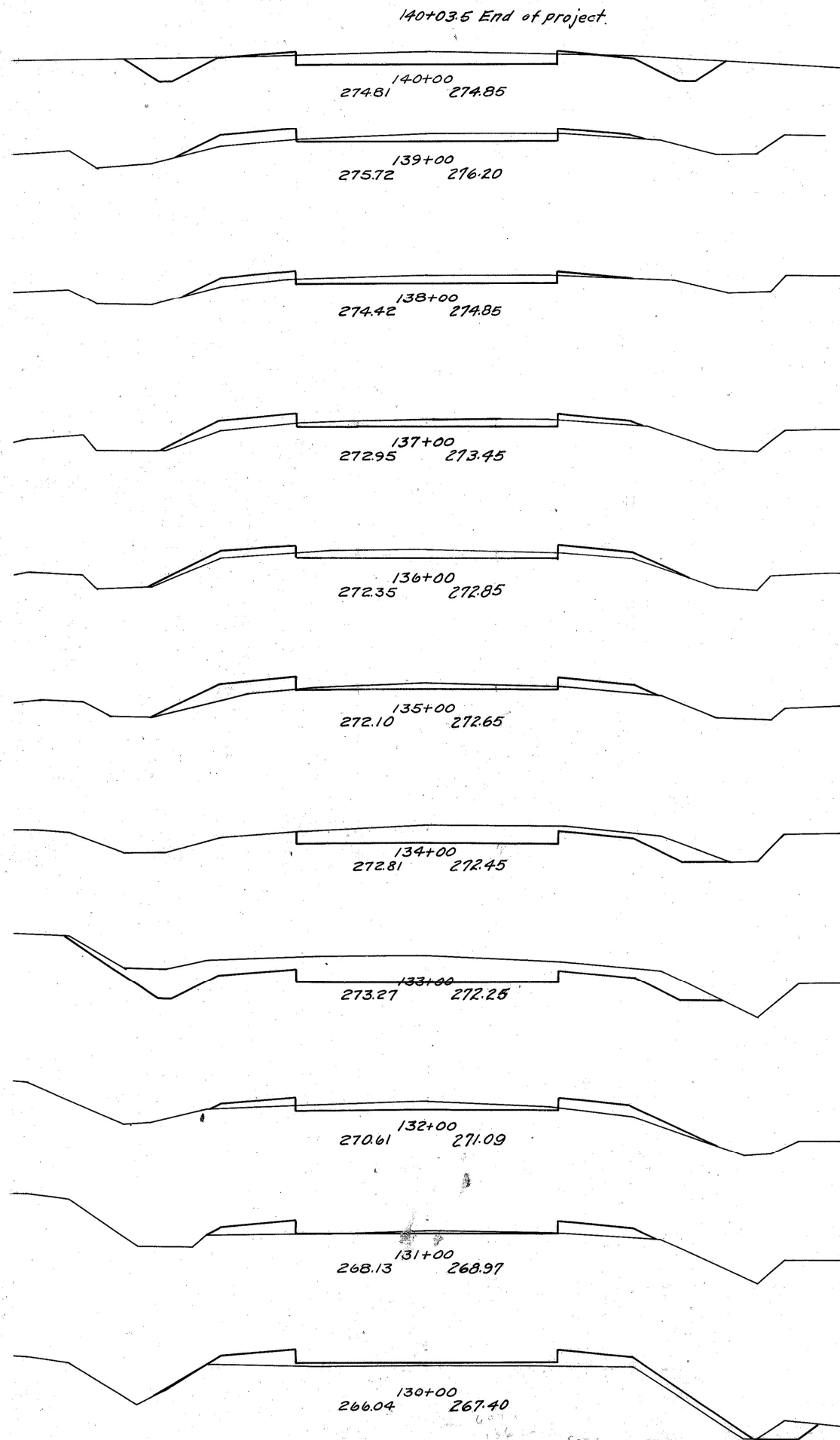


End Area		Cu. Yds	
Cut	Fill	Cut	Fill
8.0	12.5		
		22.2	52.4
4.0	18.5		
		13.0	58.3
3.0	13.0		
		22.2	51.9
9.0	15.0		
		36.1	63.0
10.5	19.0		
		21.3	64.8
1.0	16.0		
		22.2	32.4
11.0	1.5		
		37.0	11.1
9.0	4.5		
		29.6	20.4
7.0	6.5		
		33.3	24.1
11.0	6.5		



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
		11.1	75.0
2.5	17.5		
		79.6	35.2
39.0	1.5		
		129.6	2.8
31.0	0		
		84.3	7.4
14.5	4		
		48.1	25.0
11.5	9.5		
		37.0	38.9
8.5	11.5		
		28.7	42.6
7.0	11.5		
		33.3	36.1
11.0	8.0		
		34.3	29.6
7.5	8.0		
		28.7	38.0

Excav. 7405 Cu. Yds.
Embl. 6330 " "
+20% 1669 " "
Borrow 263



Excav
Emb
Emb + 20%
Waste

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
230	15	1.9	0.7
8.0	9.0	68.5	194
		33.3	27.8
100	6.0		
		35.2	306
9.0	10.5		
		37.0	370
11.0	9.5		
		33.3	426
7.0	13.5		
		74.1	250
33.0	0		
		185.9	0
67.0	0		
		138.9	204
8.0	11.0		
		18.5	38.9
2.0	10.0		
		10.2	61.1
3.5	23.0		

Elev. Left	Add	Width	Station	± Elev.	Width	Sub	Elev. Right
200.02	0.00	9.0	16+50	200.34	9.00	0.14	200.20
200.20	0.23	9.0	16+75	200.11	9.10	0.14	199.97
200.10	0.33	9.0	16+87.6	199.91	9.21	0.14	199.77
200.01	0.45	9.0	17+00	199.70	9.42	0.14	199.56
199.70	0.68	9.0	17+25	199.16	9.95	0.14	199.02
199.48	0.78	9.0	17+36.7	198.84	10.18	0.14	198.70
199.22	0.90	9.0	17+50	198.46	10.75	0.14	198.32
198.73	1.13	9.0	17+75	197.74	11.46	0.14	197.60
198.31	1.35	9.0	18+00	197.10	11.58	0.14	196.96
197.90	1.35	9.0	18+17.5	196.69	11.58	0.14	196.35
197.40	1.28	9.0	18+25	196.36	11.00	0.14	196.12
197.03	1.06	9.0	18+50	196.11	11.40	0.14	195.97
196.61	0.90	9.0	18+67.5	195.85	10.87	0.14	195.71
196.45	0.83	9.0	18+75	195.75	10.54	0.14	195.61
195.65	0.61	9.0	19+00	195.48	9.83	0.14	195.04
195.55	0.38	9.0	19+25	195.31	9.32	0.14	195.17
195.24	0.16	9.0	19+50	195.22	9.05	0.14	195.08
195.05	0.00	9.0	19+67.5	195.19	9.00	0.14	195.05

Extra Widening 41 Sq Yds.

Elev. Left	Sub	Width	Station	± Elev.	Width	Add	Elev. Right
220.51	0.14	9.0	37+00	220.65	9.0	0.0	220.51
220.10	0.14	9.0	37+25	220.28	9.0	0.09	220.19
219.96	0.14	9.0	37+50	220.00	9.0	0.19	220.05
219.79	0.14	9.0	37+75	219.93	9.0	0.28	219.97
219.87	0.14	9.0	38+00	220.01	9.0	0.38	220.25
220.12	0.14	9.0	38+25	220.26	9.0	0.48	220.60
220.53	0.14	9.0	38+50	220.68	9.0	0.58	221.12
221.10	0.14	9.0	38+75	221.25	9.0	0.68	221.59
221.85	0.14	9.0	39+00	221.99	9.0	0.78	222.23
222.67	0.14	9.0	39+25	222.81	9.0	0.88	223.95
223.69	0.14	9.0	39+50	223.23	9.0	0.19	223.88
224.31	0.14	9.0	39+75	224.55	9.0	0.09	224.40
225.13	0.14	9.0	40+00	225.27	9.0	0.0	225.13

Elev. Left	Add	Width	Station	± Elev.	Width	Sub	Elev. Right
228.41	0.0	9.0	41+00	228.55	9.0	0.14	228.41
229.26	0.03	9.0	41+25	229.37	9.0	0.14	228.41
230.12	0.07	9.0	41+50	230.19	9.0	0.14	230.05
230.97	0.0	9.0	41+75	231.01	9.0	0.14	230.87
231.83	0.14	9.0	42+00	231.83	9.0	0.14	231.69
232.68	0.17	9.0	42+25	232.68	9.0	0.14	232.51
233.54	0.21	9.0	42+50	233.47	9.0	0.14	233.33
234.36	0.21	9.0	42+75	234.29	9.0	0.14	234.15
235.18	0.21	9.0	43+00	235.11	9.0	0.14	234.97
236.00	0.21	9.0	43+25	235.96	9.0	0.14	235.79
236.82	0.21	9.0	43+50	236.75	9.0	0.14	236.61
237.60	0.17	9.0	43+75	237.57	9.0	0.14	237.43
238.39	0.14	9.0	44+00	238.39	9.0	0.14	238.25
239.17	0.10	9.0	44+25	239.21	9.0	0.14	239.07
239.96	0.07	9.0	44+50	240.03	9.0	0.14	239.89
240.61	0.04	9.0	44+75	240.71	9.0	0.14	240.57
240.25	0.04	9.0	44+75	240.85	9.0	0.14	240.71
241.79	0.00	9.0	45+00	241.67	9.0	0.14	241.53

Elev. Left	Add	Width	Station	± Elev.	Width	Sub	Elev. Right
240.61	0.00	9.0	44+70.8	240.71	9.0	0.14	240.57
240.73	0.02	9.0	44+75	240.85	9.0	0.14	240.71
241.69	0.16	9.0	45+00	241.67	9.0	0.14	241.53
242.64	0.29	9.0	45+25	242.29	9.0	0.14	242.35
243.60	0.43	9.0	45+50	243.31	9.0	0.14	243.17
244.46	0.56	9.0	45+75	244.06	9.0	0.14	243.90
245.12	0.69	9.0	46+00	244.57	9.0	0.14	244.43
245.54	0.81	9.0	46+20.8	244.87	9.0	0.14	244.83
245.59	0.81	9.0	46+25	245.92	9.0	0.14	245.28
245.75	0.81	9.0	46+50	246.28	9.0	0.14	245.94
245.81	0.81	9.0	46+75	245.14	9.0	0.14	245.00
245.88	0.81	9.0	47+00	245.21	9.0	0.14	245.07
245.93	0.81	9.0	47+20.8	245.26	9.0	0.14	245.12
245.93	0.79	9.0	47+25	245.28	9.0	0.14	245.14
245.86	0.66	9.0	47+50	245.32	9.0	0.14	245.20
245.79	0.52	9.0	47+75	245.41	9.0	0.14	245.27
245.71	0.38	9.0	48+00	245.47	9.0	0.14	245.33
245.65	0.25	9.0	48+25	245.54	9.0	0.14	245.40
245.57	0.11	9.0	48+50	245.60	9.0	0.14	245.46
245.51	0.00	9.0	48+70.8	245.65	9.0	0.14	245.51

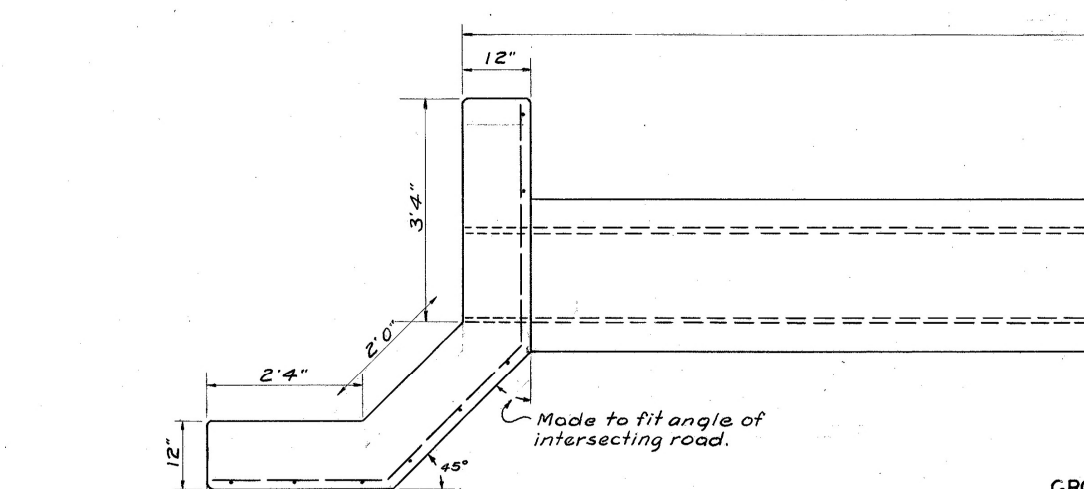
FED. AID DIST. No.	STATE	FED. AID PROJ.	FISCAL YEAR
10	OHIO		1929

(I.C.H.) 240 SEC. B
DELAWARE CO.O.

FED. AID DIST NO.	STATE	FED AID PROJ.	FISCAL YEAR
10	OHIO		1929

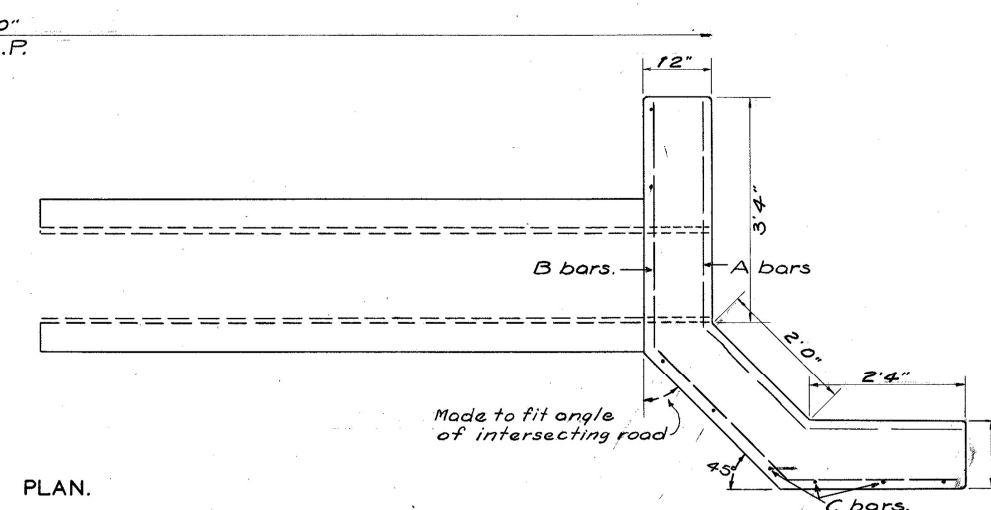
16
17

S.H.C.H. 240. SECTION B
DELAWARE CO. OHIO.

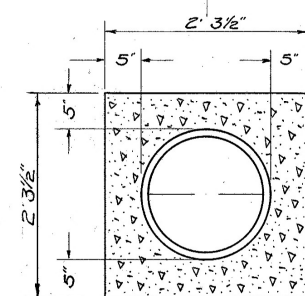


GROUND

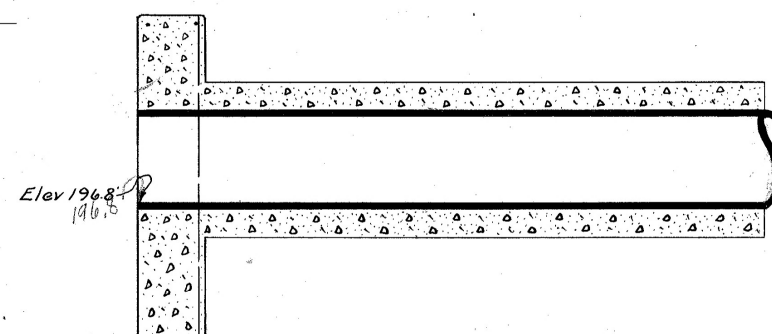
PLAN.



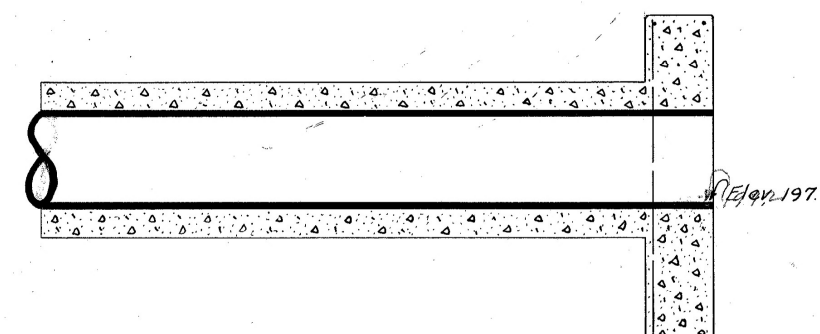
Made to fit angle
of intersecting road



SEC.ON ⌀ OF ROAD.



PART SECTIONAL VIEW.



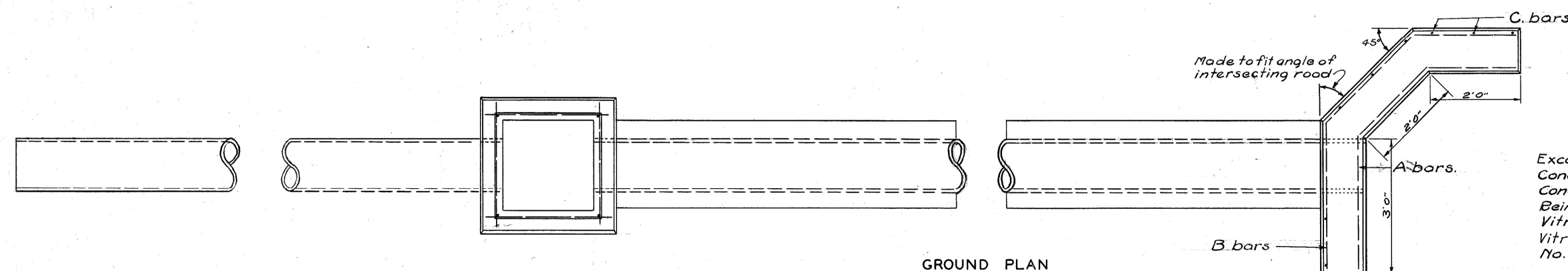
ESTIMATED QUANTITIES

Excavation	13.0 Cu. Yds.
Concrete 1-5 1/2	2.9 " "
Concrete 1-8 1/2	5.0 " "
Reinforcing Steel	65.0 Lbs.
Vitrified Sewer Pipe 15"	40.0 Lin. Ft.

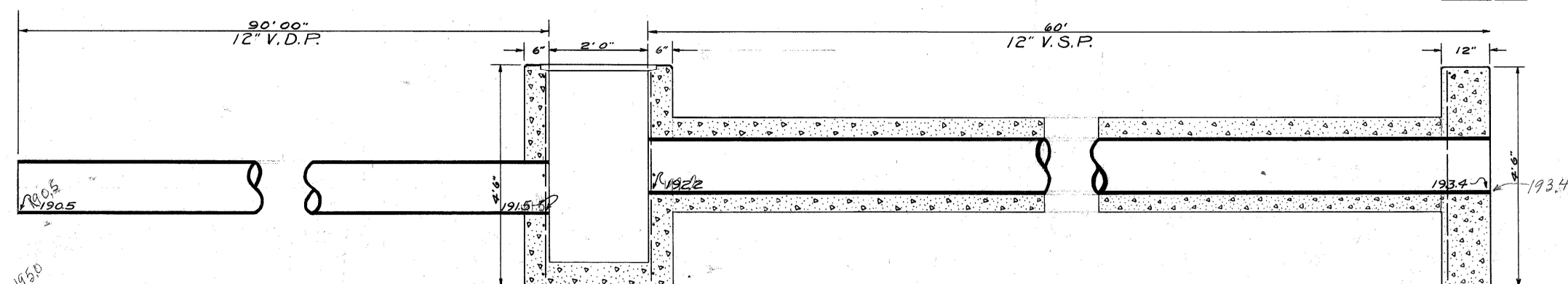
BILL OF STEEL.

A bars	1/2" ⌀ X 7'6"	2
B "	1/2" ⌀ X 8'6"	2
C "	1/2" ⌀ X 4'3"	16

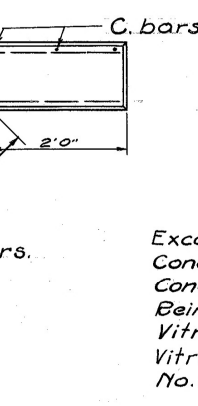
PLAN
SIDE ROAD CULVERT
STATION 25+25
SCALE 3/4"=1'



GROUND PLAN



PART SECTIONAL VIEW.



SEC.ON ⌀ OF ROAD

ESTIMATED QUANTITIES.

Excavation	19.0 Cu. Yds.
Concrete 1-5 1/2	1.3 " "
Concrete 1-8 1/2	6.3 " "
Reinforcing Steel	30.0 Lbs.
Vitrified Sewer Pipe 12"	60.0 Lin. Ft.
Vitrified Drain Pipe 12"	90.0 " " incl. in drives.
No. 2 Catch Basin	1.

BILL OF STEEL.

A bars	1/2" ⌀ X 7'0"	1.
B "	1/2" ⌀ X 8'0"	1.
C "	1/2" ⌀ X 4'0"	8.

PLAN
SIDE ROAD CULVERT
STATION 22+10.
SCALE 3/4"=1'

FED. AID DIST. NO.	STATE	FED. AID PROJ.	FISCAL YEAR
10	OHIO		1929.

S.H.(I.C.H.) 240. SECTION B.
DELAWARE CO. OHIO.

17.
17.

SUMMARY OF QUANTITIES

BRIDGES & CULVERTS.

NO	STATION	TYPE	SIZE	LENGTH	EXCAVATION		CONCRETE		REIN'NG	VITR. SEWER PIPE ENCD			NO 2 CATCH BN. NUMBER	REMARKS — WORK TO BE DONE
					DRY	WET	1-5 1/2	1-8		12"	15"	18"		
					CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	LBS	LIN. FT.	LIN. FT.	LIN. FT.		
1	15+26	TRUSS	18' DRIVE											2 Spans STEEL GOOD CONDITION No Work Req'd.
2	19+52	BEAM	24' R-Way	27' 0"										Bridge Good BUILT 1926 CONCRETE & STONE No Work
3	22+10	V.S. PENC.	12"	60' 0"	19.0		7.3	6.3	30	60			1	Build 60' 12" V.S. P. Enc. Std. Side R.H. W. E. end. No 2 C.B. W. end.
4	24+83	SLAB	26' R-Way	28' 0"										Bridge Good BUILT 1926 CONCRETE No Work
5	25+25	V.S. PENC.	15"	40' 0"	13.0		2.9	5.0	65		40			Build 40' 15" V.S. P. Enc. 2 Std. Conc. Head Walls-Side Road
6	38+20	SLAB	26' R-Way	28' 0"										Bridge Good BUILT 1926 CONCRETE No Work
7	59+44	SLAB	26' R-Way	28' 0"										" " " 1926 " No Work
8	87+88	BOX	3' X 3'	38' 0"										Culvert " " 1925 " No Work
9	129+72	BOX	4' X 4'	36' 6"										" " " 1925 " No Work
TOTAL					32.0		4.2	11.3	95	60	40			

Point of Beginning Sta 0+00
" " Ending Sta 140+03.5
Length of Project 14003.5 ft
Deductions
Bridge Sta. 15+26 273.0 ft
Net Length of Project 13730.5 ft
Deductions for 2 Base Courses only
Bridge Sta. 19+52 30.0 ft
" Sta. 24+83 22.0 ft
" Sta. 38+20 24.0 ft
Total 76.0 ft
Net Length for 2 Base Courses 13,654.5 ft.

ESTIMATED QUANTITIES

Excavation (Unclassified) 6,123.50 Cu. Yds.
Borrow Sta. 0+00 to Sta 26+00 1,614.40 " "
Total Excavation 7,737.90 " "
1st Base Course 19' X 4" as per Typ. Sec. Sh. 2 28,826.00 Sq. Yds.
2nd " " 18' 6" X 4" " " " 2 28,068.00 " "
3rd Top " 18' 0" X 3" " " " 2 27,465.00 " "
1st Base " Extra for widening curves 4.00 " "
2nd " " " " " 4.00 " "
3rd Top " " " " " 4.00 " "

Total 1st Base Course 28,867.00 " "
" 2nd " " 28,109.00 " "
" Top Course 27,502.00 " "
Rip Rap Sta. 38+91 to 39+11 24' Base 12" Top 20.00 " "
Guard Rail Type D-1, D-2 or D-3 1,288.00 Lin. Ft.
Concrete 1-5 1/2 Two Side Road Culverts 4.20 Cu. Yds.
Concrete 1-8 " " " 11.30 " "
Excav. Culverts Sta 22+10 & 25+25 32.00 " "
Vitrified Sewer Pipe 15" Encased in Conc. 40.00 Lin. Ft.
" " 12" " " 60.00 " "
Reinforcing Steel 95.00 Lbs.
Corrugated Iron Pipe 8" 96.00 Lin. Ft.
" " 10" 112.00 " "
" " 12" 128.00 " "
" " 15" 48.00 " "
" " 18" 48.00 " "
Vitrified Drain Pipe 6" 220.00 " "
" " 8" 128.00 " "
" " 10" 140.00 " "
" " 12" 262.00 " "
Field Drain Tile Relaid 6" 212.00 " "
Stone for four Road Approaches 22 Tons.
Guard Rail removed & Stored on R-O-W 480 Lin. Ft.

EXCAVATION-EMBANKMENT QUANTITIES

FROM STATION	TO STATION	EXCAV. CU. YDS.	EMB'KT CU. YDS.	EMB.+20% CU. YDS.	BORROW CU. YDS.	WASTE CU. YDS.
0+00	13+80	446.5	1048.7	1258.4	811.9	
16+51	26+00	246.6	890.9	1069.1	802.5	
26+80	35+50	362.1	273.1	327.7		34.4
35+50	50+00	787.8	527.5	633.0		154.8
50+00	68+00	840.7	499.8	599.8		240.9
68+00	83+00	887.1	513.9	616.7		270.4
83+00	97+00	529.6	459.3	551.2	21.7	
97+00	111+00	614.8	348.8	418.6		196.2
111+00	129+00	240.5	639.0	766.8	26.3	
129+00	140+03.5	647.9	378.5	454.2		193.7
TOTAL		6123.5	5579.5	6695.5	766.24	1090.4

Contractor to receive full compensation for borrow Sta 0+00 to 26+00. No compensation will be allowed for borrow Sta. 83+6 97+00-111 to 129+00.

TYPE D-2 GUARD RAIL

FROM STATION	TO STATION	NO LIN. FT	WHERE USED	REMARKS
12+28	13+80	152	Left	Rem. Old Rl.
16+50	16+66	16	Left	New
12+28	13+80	152	Right	Rem. Old Rl.
16+50	19+22	272	"	
17+00	19+08	208	Left	
19+60	20+64	104	Right	
19+84	20+64	80	Left	
38+95	35+75	80	Right	Rem. Old Rl.
24+56	24+72	16	"	Rem. Old Rl.
24+95	25+19	24	Left	
37+42	37+90	48	Right	
38+18	38+74	56	"	
38+91	39+71	80	Left	Rem. Old Rl.
TOTAL		1288	New Rail-D-2	
TOTAL		480	Removed & Stored	

DRIVES & FARM APPROACHES.

NO.	LOCATION		CORRUGATED IRON PIPE					VITRIFIED DRAIN PIPE				6" TILE RELAI	WHERE USED		REMARKS.
	FROM	TO	8"	10"	12"	15"	18"	6"	8"	10"	12"		NORTH	SOUTH	
	STATION	STATION	LIN. FEET	LIN. FEET	LIN. FEET	LIN. FEET	LIN. FEET	LIN. FEET	LIN. FEET	LIN. FEET	LIN. FEET	LIN. FEET			
1	20+88	21+78									90				Connect E. end with Catch Basin
2	21+65	22+25		16					44						New Work.
3	33+96	34+12	16												Remove 16' 6" tile. Store on R-O-W.
4	37+72	37+88	16												For drive left
5	41+32	41+48			16								South		" " right. Remove 16' 8" tile. Store
6	42+26	44+30			32						172				16' Corr at 43+82 16' Corr 44+20
7	43+20	44+20	16						84						16' Corr at Sta. 43+82
8	49+40	51+76	16					220							Remove 4" tile. Store on R-O-W.
9	56+07	56+23		16											Remove 8" tile. " " "
10	61+35	61+51				16									Remove 12" tile. " " "
11	67+36	67+52				16									Remove old tile. " " "
12	67+36	67+52				16									" " " " " " "
13	73+63	73+79				16									Remove old Plank Culvert.
14	78+08	80+36	16									212			Relay old 6" tile
15	78+09	78+25		16											For gate.
16	81+73	82+05		32											for 2 gates.
17	83+48	83+64	16												For gate.
18	94+70	94+86			16										Remove old 8" tile. Store on R.O.W.
19	97+92	98+08			16										For Gate.
20	100+10	100+26			16										Remove 8" tile. Store on R-O-W.
21	103+45	103+61		16											Remove 6" tile. " " "
22	113+06	114+62		16						140					Remove old field tile. " " "
23	113+92	114+08			16										New Work.
24	115+44	115+60			16										Remove old tile. Store on R-O-W.
25	126+12	126+28				16									New Work.
26	126+23	126+39				16									Remove old tile. Store on R-O-W.
TOTAL			96	112	128	48	48	220	128	140	262	212			