

L-4

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS AND PUBLIC WORK  
DIVISION OF HIGHWAY

SEC. F-2 BELLEFONTAINE RICHWOOD ROAD

I.C.H. 236 PETITION NO 4884

LOGAN COUNTY

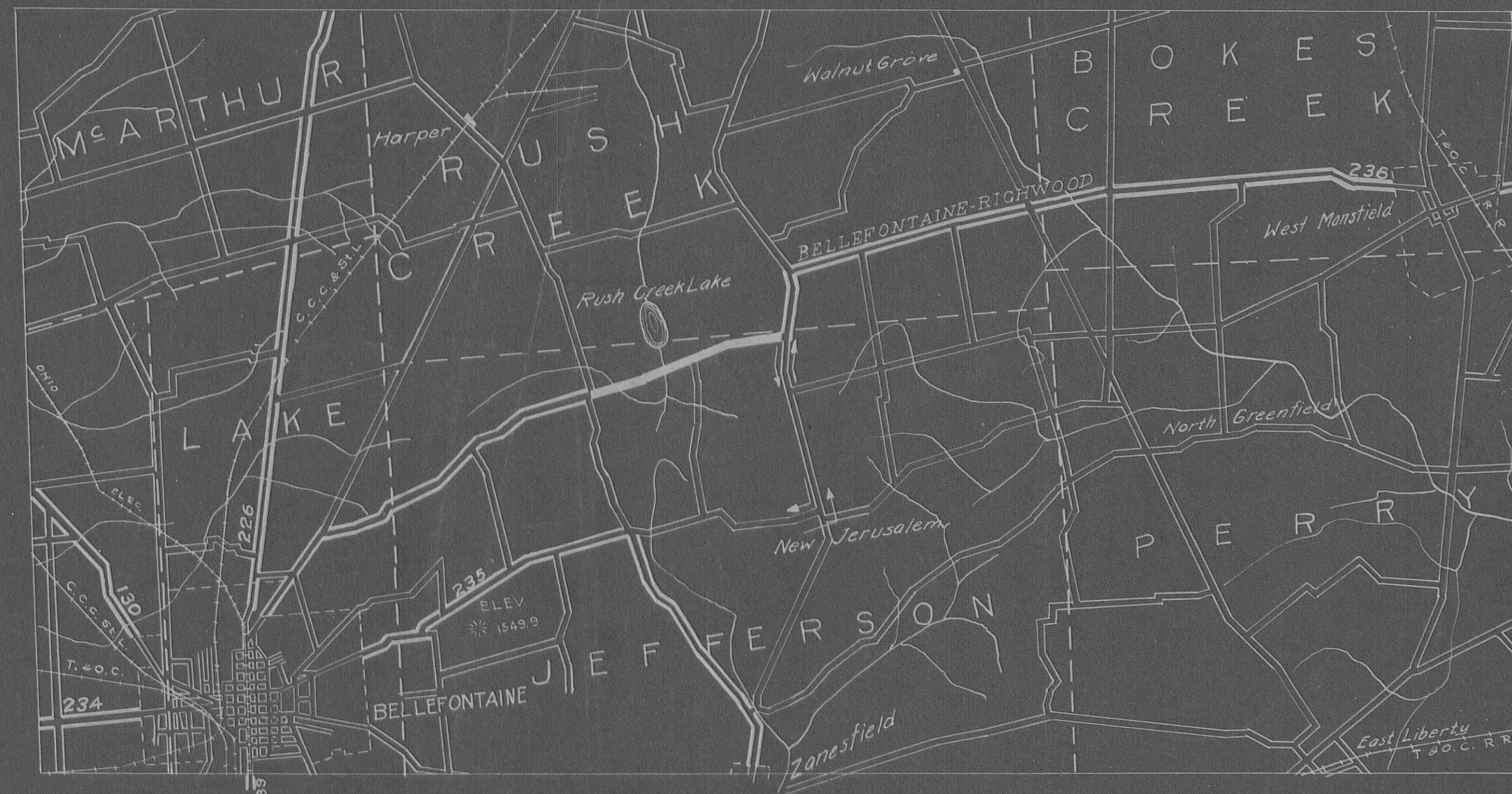
JEFFERSON TOWNSHIP

INDEX TO SHEETS

- Page 1 Title Page
- 2-5 Plan and Profile
- 6-9 Cross Section
- 9 Typical Cross Section
- 10 Structural Plans
- 11 Summary Sheet.

CONVENTIONAL SIGNS

County Line	-----
Township Line	-----
Section Line	-----
Center Line	-----
Village Line	-----
Fence Line	-----
Steam Railroad	-----
Telephone Line	TTTT





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 the improvement will require the closing of the highway to traffic and the detours will be indicated by signs as shown on the plans and estimates.

We the Commissioners of Logan County hereby approve these plans and certify that the Right of way of \_\_\_\_\_ feet in width is available for the construction, maintenance and repair of the above highway.

Signed: \_\_\_\_\_  
\_\_\_\_\_

Dated, \_\_\_\_\_ County Commissioners.

LOCATON 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'

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Resident Engineer

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Division Engineer

Approved \_\_\_\_\_  
Date \_\_\_\_\_ State Highway Engineer

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Director of Highways and Public Works.

L-4

L-

Chas. E. Littler 4329 Feet

Ben. S. Shoots 4487 Feet

Remove old Stone Culvert and  
Construct Std. 12" C.I. Pipe Culvert.  
197+25

205+00  
Remove C.I. Pipe  
and adaptor

Remove old structure construct  
Special 16 span concrete bridge  
210+57

211+13  
Take up and relay 38' of C.I. pipe  
Construct 1st. and 1st. side road headwall.

212+00 to 212+76  
Lay 76 of 8" tile

214+00  
TGR 55.85  
L 111.51

215+35

Remove old culvert, construct  
Std. 16" Solid C.I. pipe culvert.

PLAN

SURVEYED	DATE
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NO.	

PROFILE

SURVEYED	DATE
PLOTTED	
STRUCTURE NOTATION CHKD.	
NO.	

B.M. Sta. 194+00  
On forked Elm  
75' N.E. Sta. 194  
Elev. 1336.86

B.M. Sta. 209+23  
On Elm 33'-10" S  
of Sta. 209+23  
Elev. 1289.99

B.M. Sta. 216+10  
On Oak to right  
of Sta. 216+10  
Elev. 1288.72

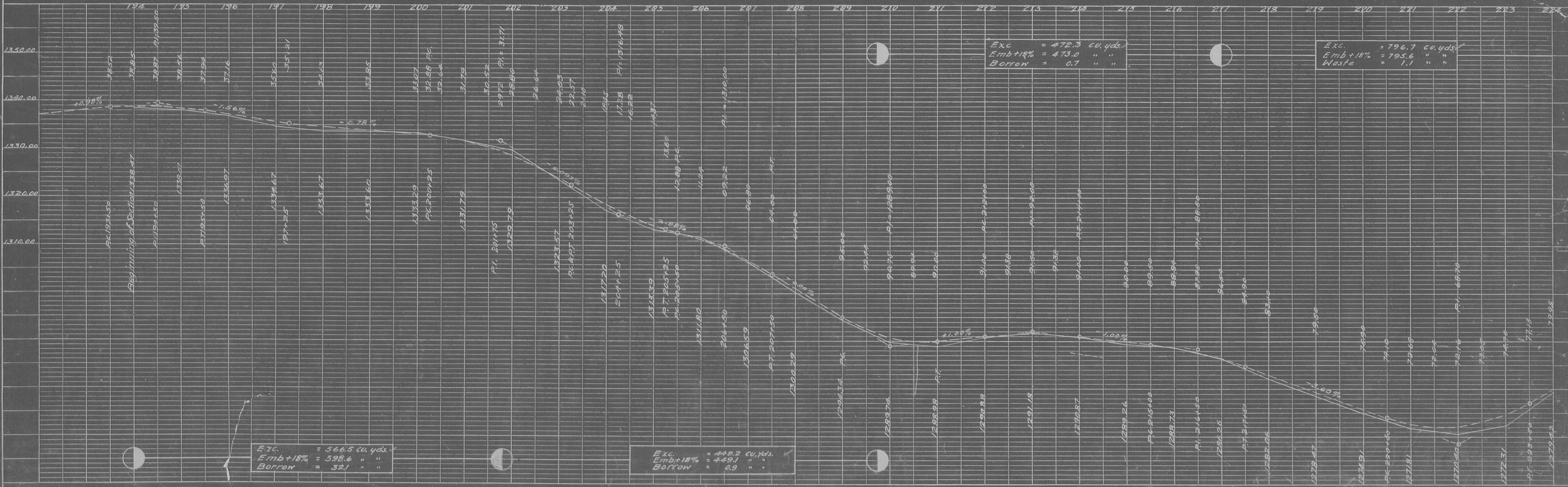
B.M. Sta. 221+25  
x Nails Ash Stump  
30'-2" to Right E.  
Elev. 1267.99

Exc. = 472.3 cu. yds.  
Emb+18% = 473.0 " "  
Borrow = 0.7 " "

Exc. = 796.7 cu. yds.  
Emb+18% = 795.6 " "  
Waste = 1.1 " "

Exc. = 566.5 cu. yds.  
Emb+18% = 598.6 " "  
Borrow = 32.1 " "

Exc. = 448.2 cu. yds.  
Emb+18% = 449.1 " "  
Borrow = 0.9 " "



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 PLAN  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK ALIGNED: \_\_\_\_\_  
 NO. OF WY CHECKED: \_\_\_\_\_

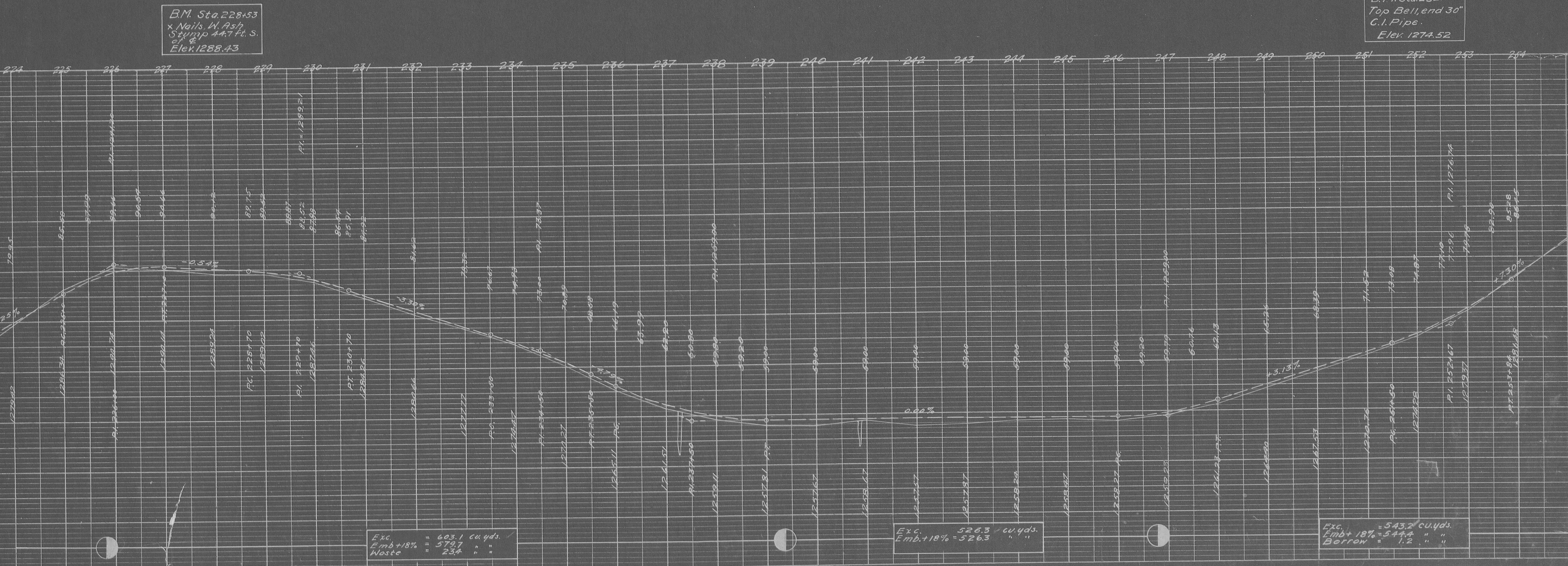
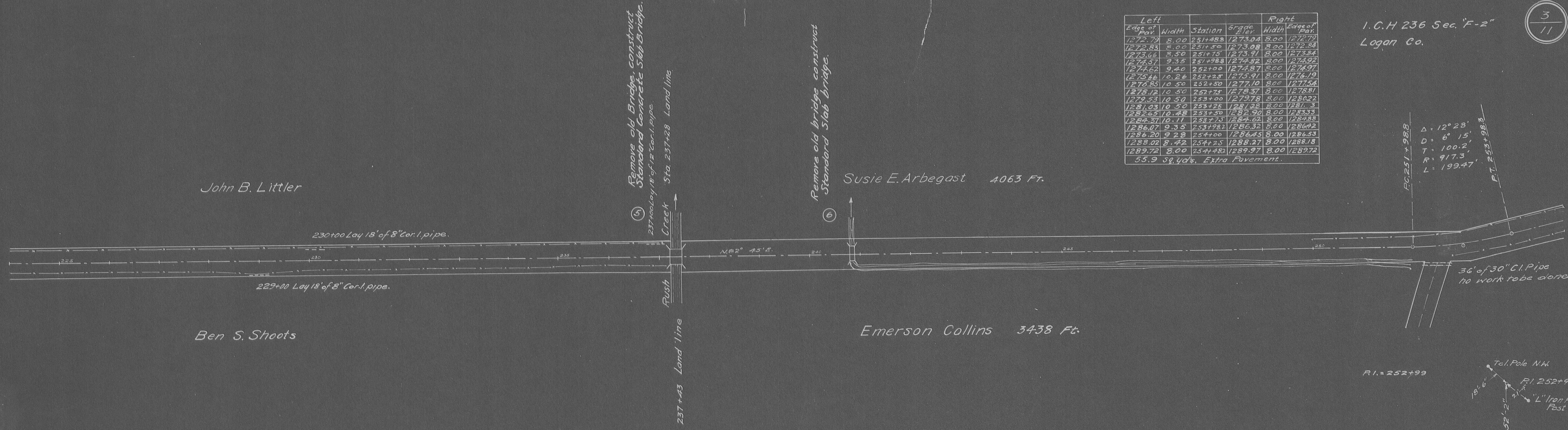
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 BY: \_\_\_\_\_  
 PROFILE  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK ALIGNED: \_\_\_\_\_  
 NO. OF WY CHECKED: \_\_\_\_\_

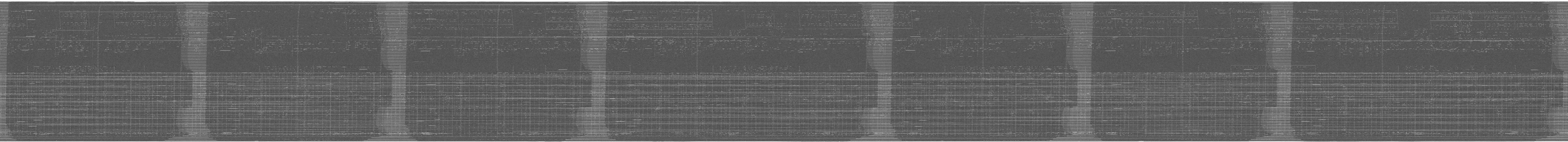
Left Edge of Pav.	Width	Station	Grade Elev.	Right Edge of Pav.	
1272.79	8.00	251+48.8	1273.04	5.00	1272.79
1272.85	8.00	251+50	1273.08	8.00	1272.84
1273.46	8.50	251+55	1273.91	8.00	1273.84
1274.57	9.35	251+60	1274.92	8.00	1274.92
1274.62	9.40	252+00	1274.87	8.00	1274.97
1275.44	10.28	252+25	1275.91	8.00	1276.19
1276.85	10.50	252+50	1277.10	8.00	1277.54
1278.12	10.50	252+75	1278.57	8.00	1278.81
1279.53	10.50	253+00	1279.78	8.00	1280.22
1281.03	10.50	253+25	1281.28	8.00	1281.33
1282.55	10.48	253+50	1282.90	8.00	1283.33
1284.37	10.11	253+75	1284.62	8.00	1284.88
1286.07	9.35	254+00	1286.32	8.00	1286.92
1288.20	9.28	254+25	1288.64	8.00	1289.53
1289.02	8.42	254+50	1289.27	8.00	1288.18
1289.72	8.00	254+75	1289.97	8.00	1289.72

55.9 sq. Yds. Extra Pavement.

I.C.H 236 Sec. "F-2"  
 Logan Co.

3  
 11







FINAL SURVEY SUBMITTED BY DATE  
 PLOTTED BY DATE  
 TEMPLATE NO. BY DATE  
 AREA CHECKED BY DATE

ORIGINAL SURVEY SUBMITTED BY DATE  
 PLOTTED BY DATE  
 TEMPLATE NO. BY DATE  
 AREA CHECKED BY DATE

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
3	18	5.6	124.1
0	49	5.6	157.4
3	36	13.0	90.7
4	13	40.7	35.2
18	6	98.1	11.1
35	0	64.8	53.7
0	29	0	124.1
0	38	22.2	83.3
12	7	161.1	13.0
75	0	224.1	0
46	0	129.6	3.7
24	2	66.7	42.6
12	21	22.2	148.1
0	59	1.9	185.2
1	41	33.3	90.7
17	8	64.8	22.2
18	4	72.2	14.8
21	4		

209+75

+82

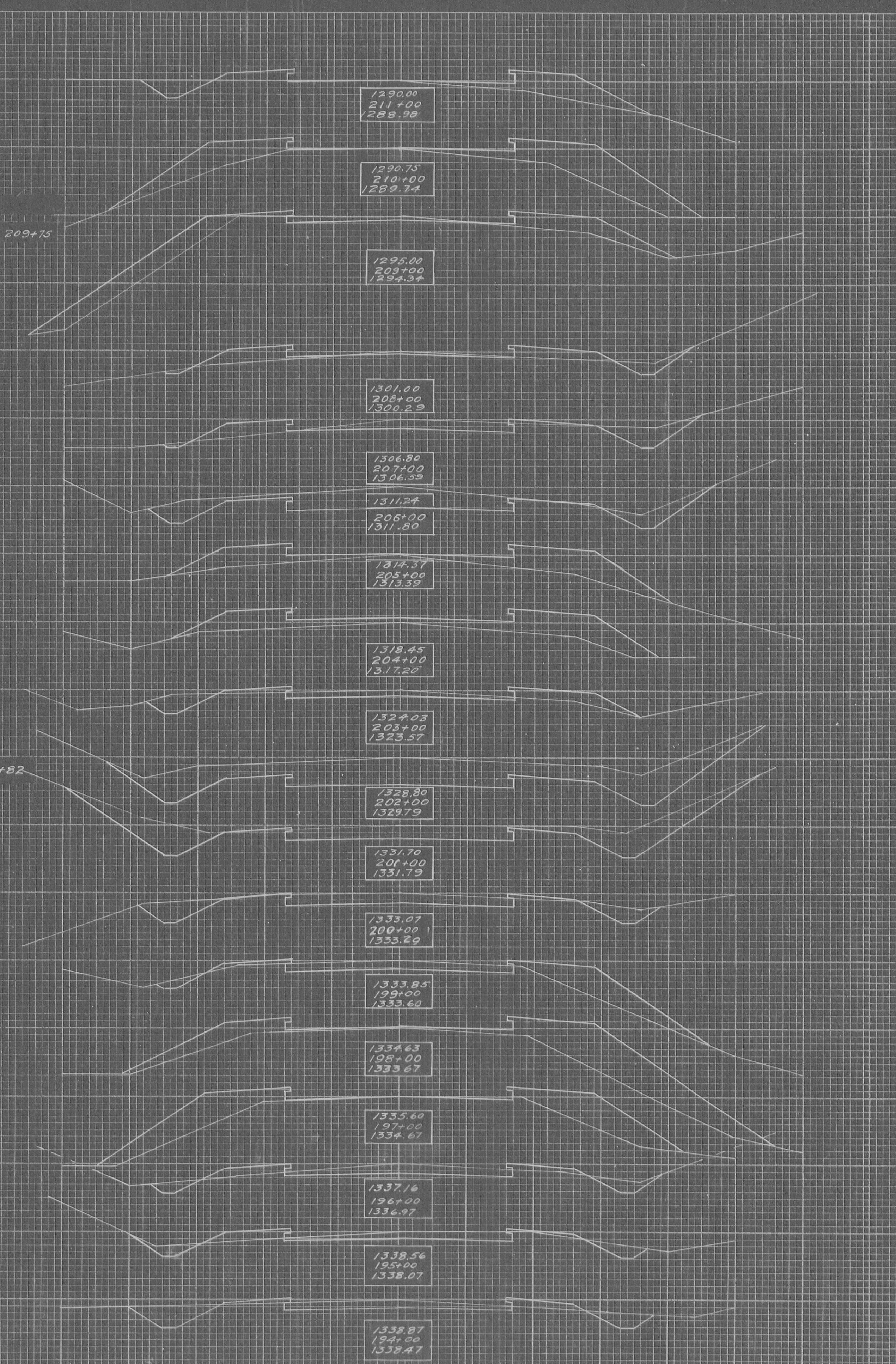
216+90

225+82

Exc. = 448.2 cu yds.  
Emb. = 380.6 cu yds.

Exc. = 566.5 cu yds.  
Emb. = 507.3 cu yds.

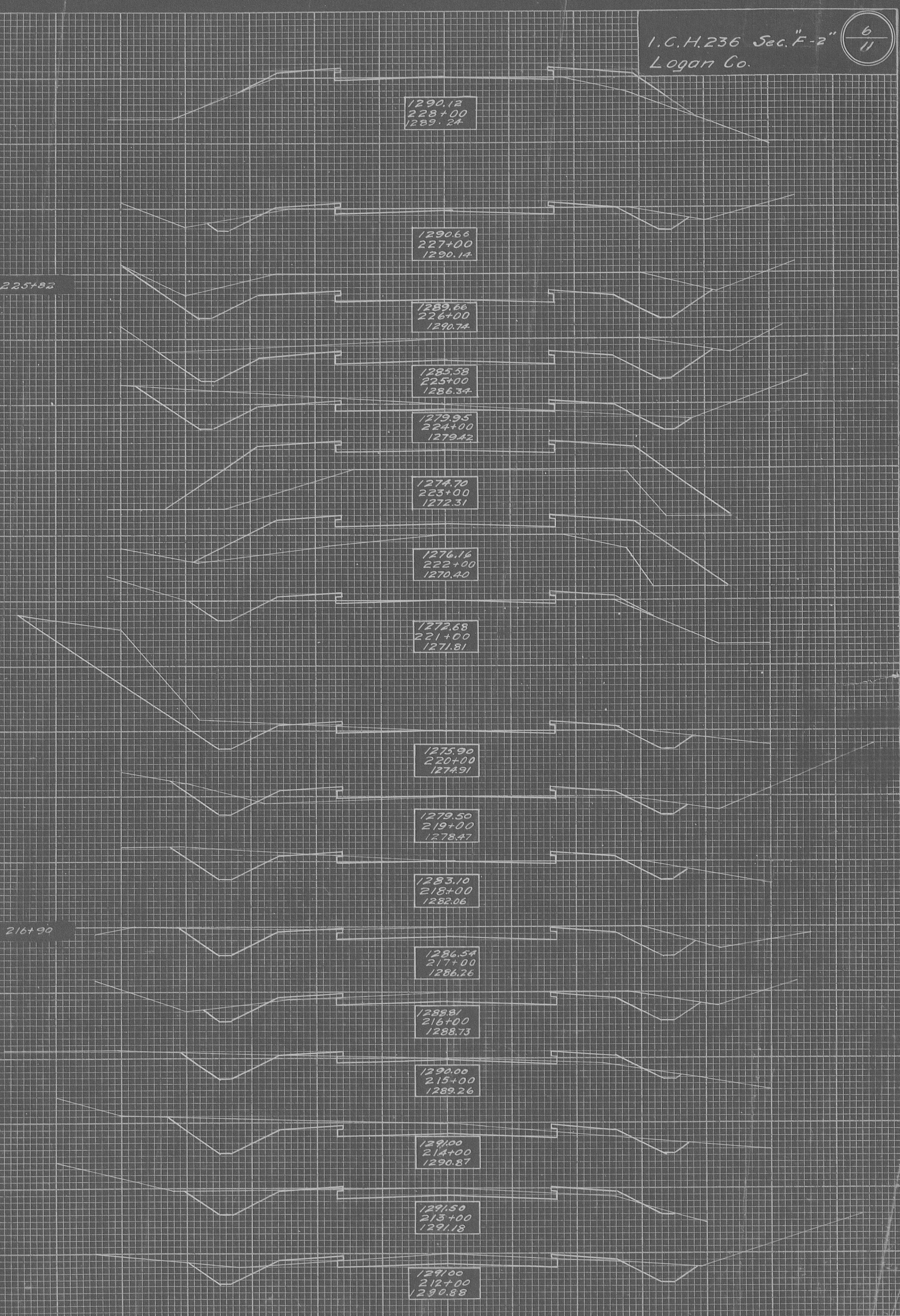
Exc. = 472.3 cu yds.  
Emb. = 400.9 cu yds.



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
1	14	24.1	31.5
12	3	168.5	5.6
79	0	264.8	0
64	0	172.2	7.4
29	4	53.7	174.1
0	90	0	285.2
0	64	14.8	129.6
8	6	100.0	16.7
		101.9	27.8
46	3		
9	12	48.1	27.8
17	3	92.6	5.6
33	0	103.7	1.9
23	1	66.7	11.1
13	5	85.2	14.8
32	3	90.7	11.1
17	3	70.4	11.1
21	3	44.4	38.9

Exc. = 796.7 cu yds.  
Emb. = 674.2 cu yds.

Exc. = 472.3 cu yds.  
Emb. = 400.9 cu yds.



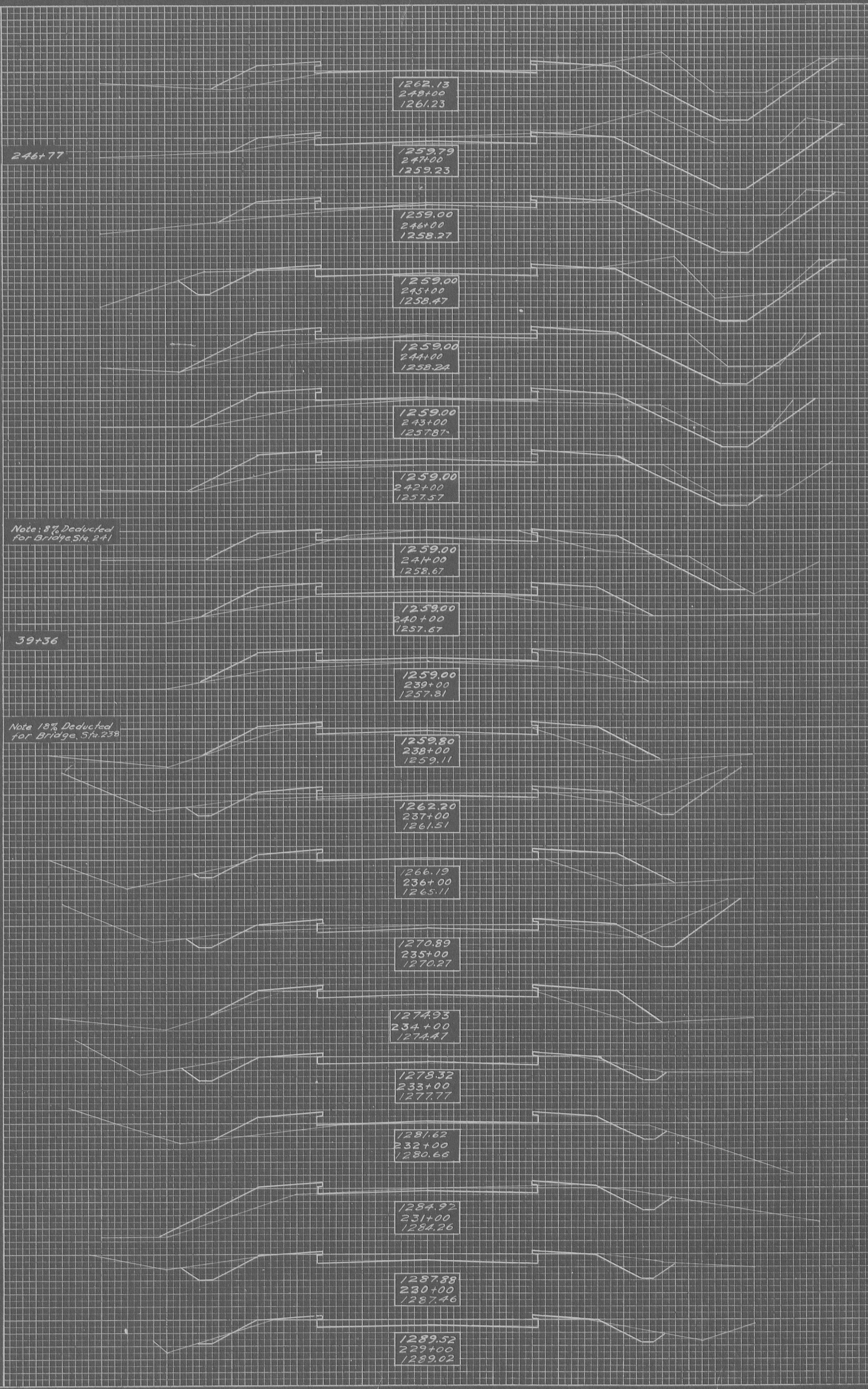
FINAL SURVEY SURVEYED BY DATE  
PLOTTED BY DATE  
TEMPLATE NO.  
NOTE BOOK NO.  
AREAS CHECKED

ORIGINAL SURVEY SURVEYED BY DATE  
PLOTTED BY DATE  
TEMPLATE NO.  
NOTE BOOK NO.  
AREAS CHECKED

Sta.	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
29	11	1574	278	
56	4	1704	278	
36	11	1389	241	
39	2	1093	296	
20	14	556	685	
10	23	315	852	
7	23	407	778	
15	19	256	766	
0	26	0	984	
0	25	74	722	
4	14	313	334	
16	8	315	463	
1	17	241	463	
12	8	407	444	
10	16	444	333	
14	2	315	315	
3	15	204	500	
8	12	500	241	
19	1	556	74	
11	3	222	315	

Exc. = 526.3 cu. yds.  
Emb. = 446.0 cu. yds.

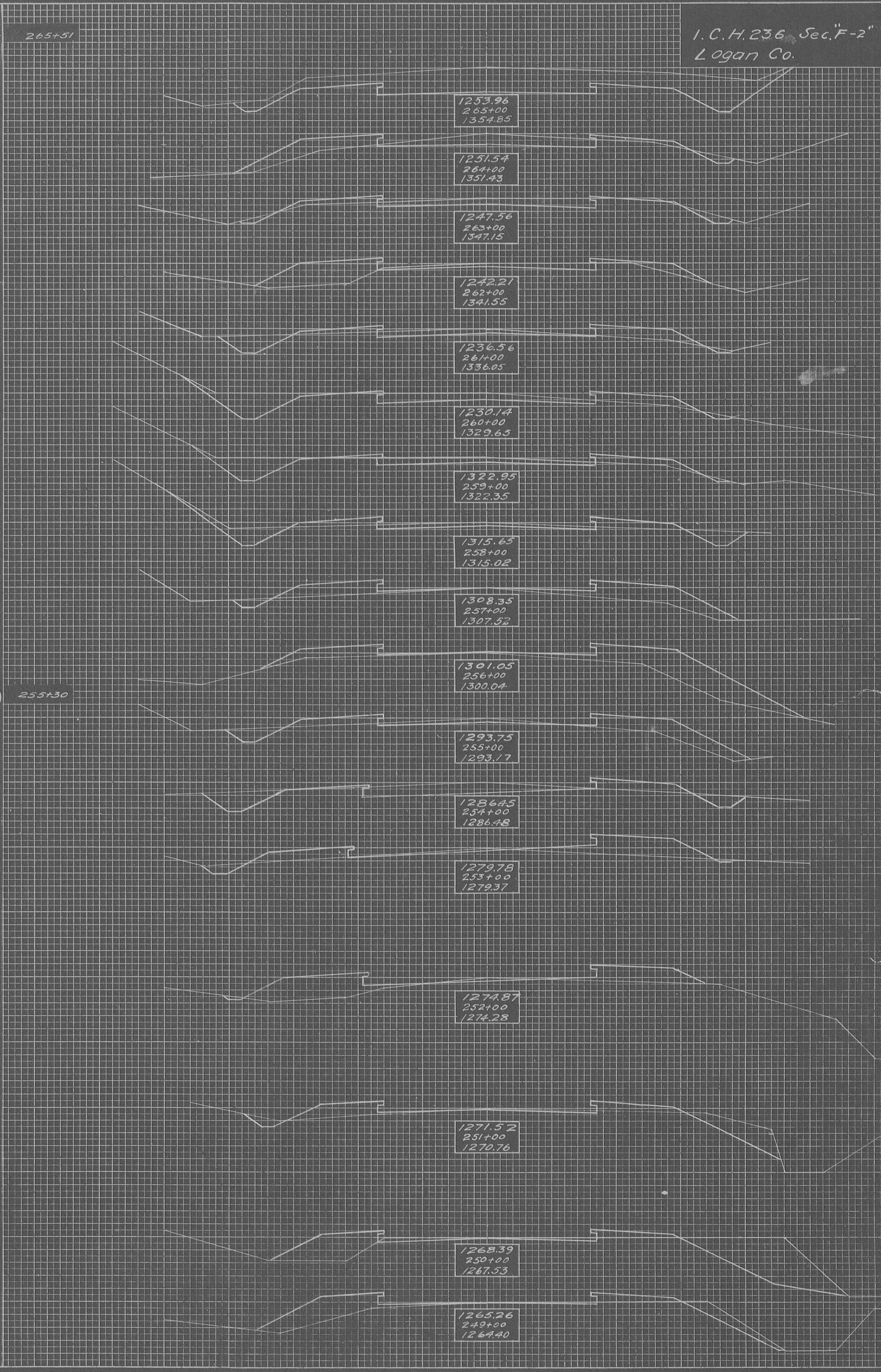
Exc. = 603.1 cu. yds.  
Emb. = 491.3 cu. yds.



Sta.	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
62	0	1315	241	
9	13	352	315	
10	4	278	389	
5	17	296	481	
11	9	537	259	
18	5	611	185	
15	5	537	222	
14	7	278	574	
1	24	19	1130	
0	37	13	1000	
7	17	500	407	
20	5	426	426	
3	18	93	796	
2	25	241	685	
11	11	759	500	
30	16	667	667	
6	20	448	574	

Exc. = 537.7 cu. yds.  
Emb. = 453.7 cu. yds.

Exc. = 543.2 cu. yds.  
Emb. = 461.4 cu. yds.



FINAL SURVEY SURVEYED PLOTTED  
NOTE BOOK NO. AREAS CHECKED

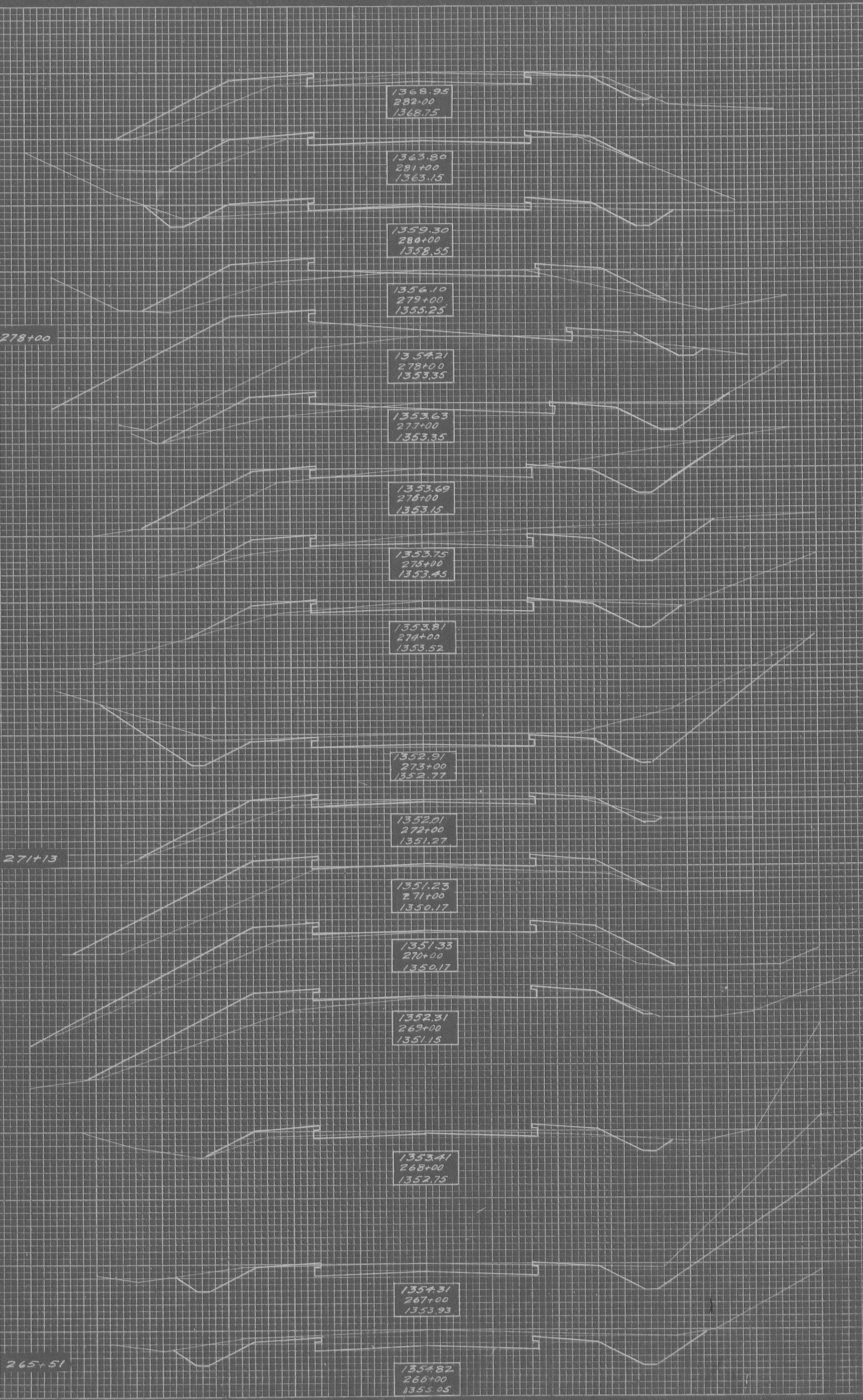
ORIGINAL SURVEY SURVEYED PLOTTED  
NOTE BOOK NO. AREAS CHECKED

Sta	End Area		Cu Yds.	
	Cut	Fill	Cut	Fill
11	19	31.5	57.4	
6	12	241	42.6	
7	11	16.7	79.6	
2	32	7.4	235.2	
2	95	37	207.4	
18	17	87.0	70.4	
29	21	107.4	53.7	
29	8	83.3	29.6	
16	8	137.0	14.8	
58	0	114.8	24.1	
4	13	7.4	109.3	
0	46	0	148.1	
0	34	0	133.3	
0	38	13	88.9	
7	10	157.4	18.5	
78	0	225.9	0	
47	0	196.3	0	

Exc. = 590.4 cu yds.  
Emb. = 18% 500.1 cu yds.

Exc. = 573.9 cu yds.  
Emb. = 18% 488.2 cu yds.

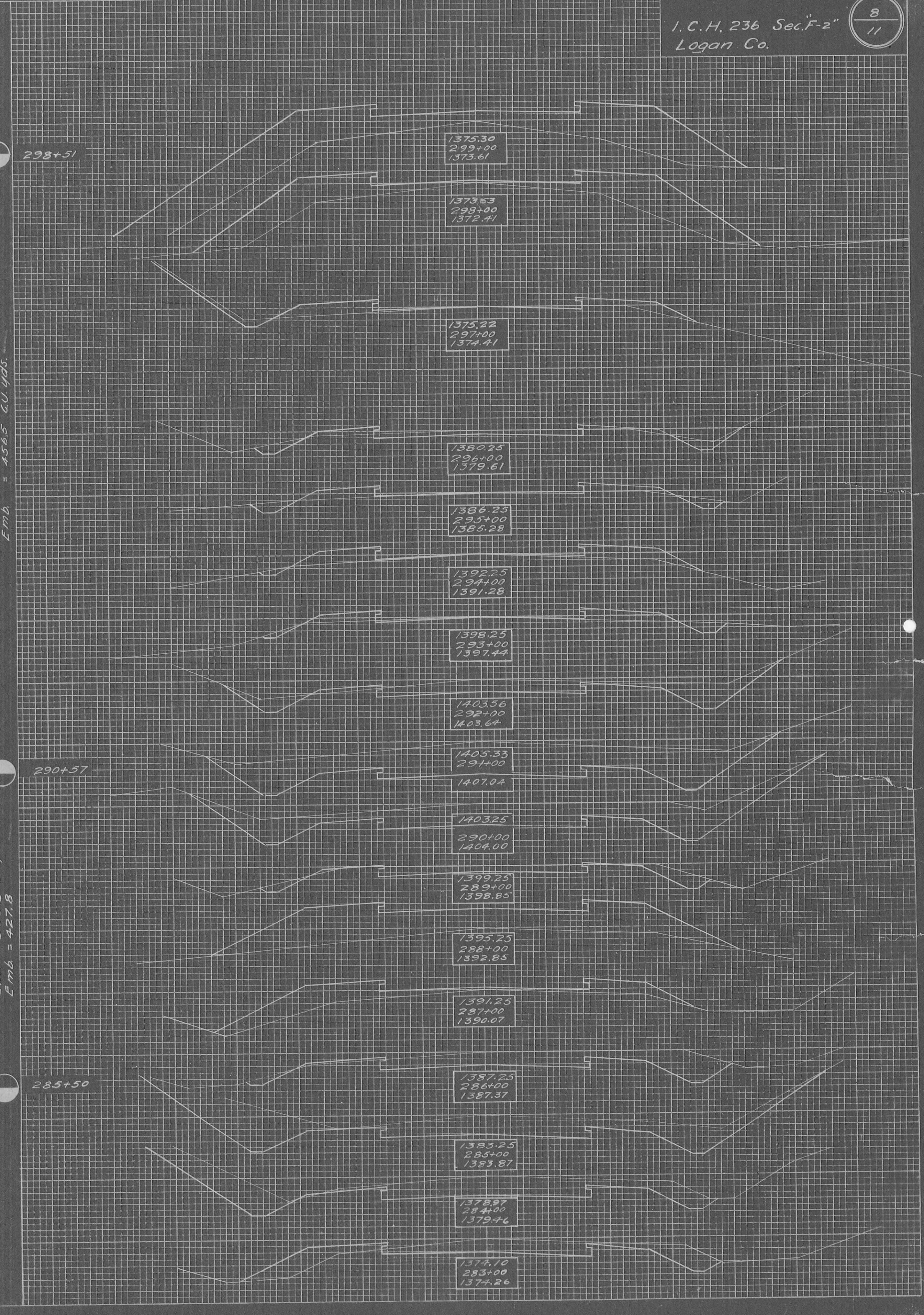
Exc. = 493.5 cu yds.  
Emb. = 109.9 cu yds.



Sta	End Area		Cu Yds.	
	Cut	Fill	Cut	Fill
0	121	0	338.9	
0	62	7.4	140.7	
4	14	31.5	29.6	
13	2	29.6	20.4	
3	9	9.3	44.4	
2	15	9.3	48.1	
3	11	64.8	24.1	
32	2	240.8	3.7	
98	0	313.0	0	
71	0	163.0	1.9	
17	1	31.5	148.1	
0	79	0	211.1	
0	35	63.0	66.7	
34	1	194.5	1.9	
71	0	209.3	0	
42	0	122.2	24.1	
25	13	64.8	59.3	

Exc. = 539.5 cu yds.  
Emb. = 456.5 cu yds.

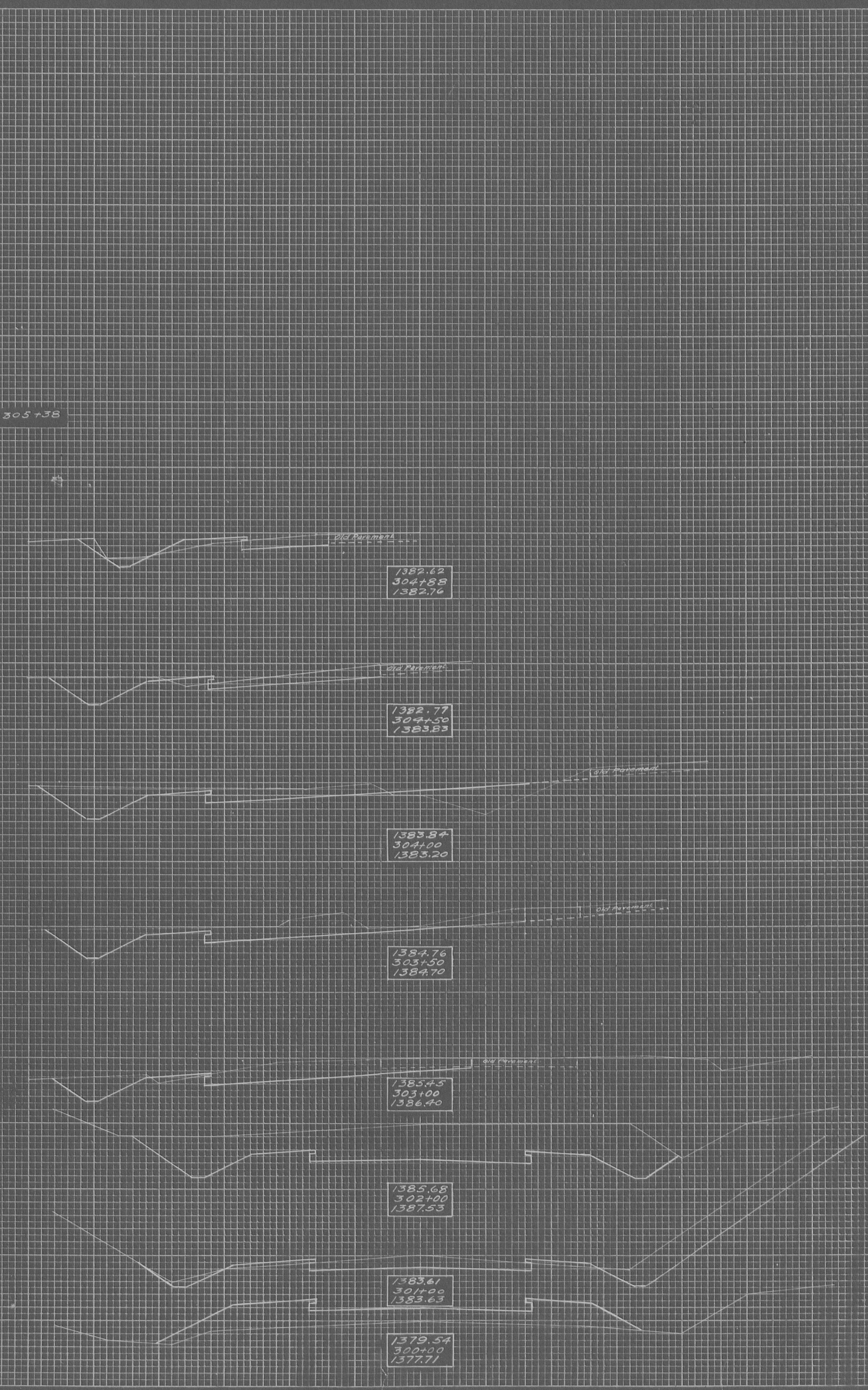
Exc. = 503.8 cu yds.  
Emb. = 427.8 cu yds.





End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
0	0	5.5	2.8
6	3	134	2.8
13	1	370	19.4
27	20	583	203
36	2	546	2.8
23	1	2428	1.9
107	0	2871	11.1
48	6	889	96.3
0	46	0	3093

ETC. = 785.6 cu. yds.  
 FMB = 660.1 cu. yds.



1382.62  
304+88  
1382.76

1382.77  
304+30  
1383.83

1383.84  
304+00  
1383.20

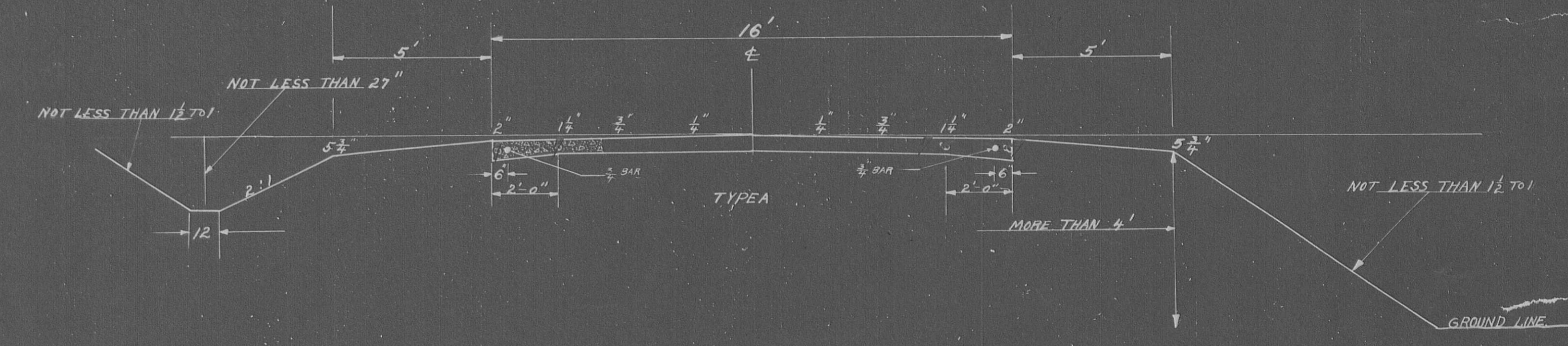
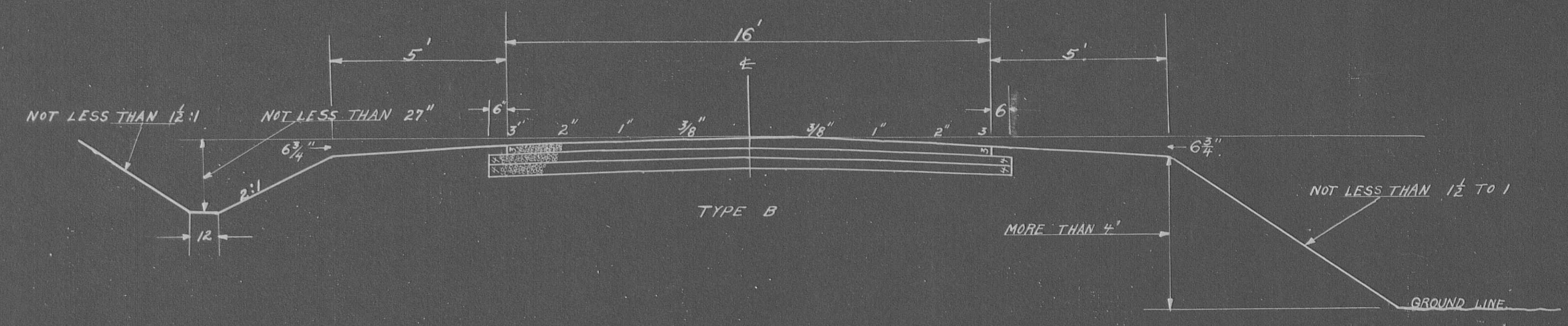
1384.76  
303+50  
1384.70

1385.45  
303+00  
1386.40

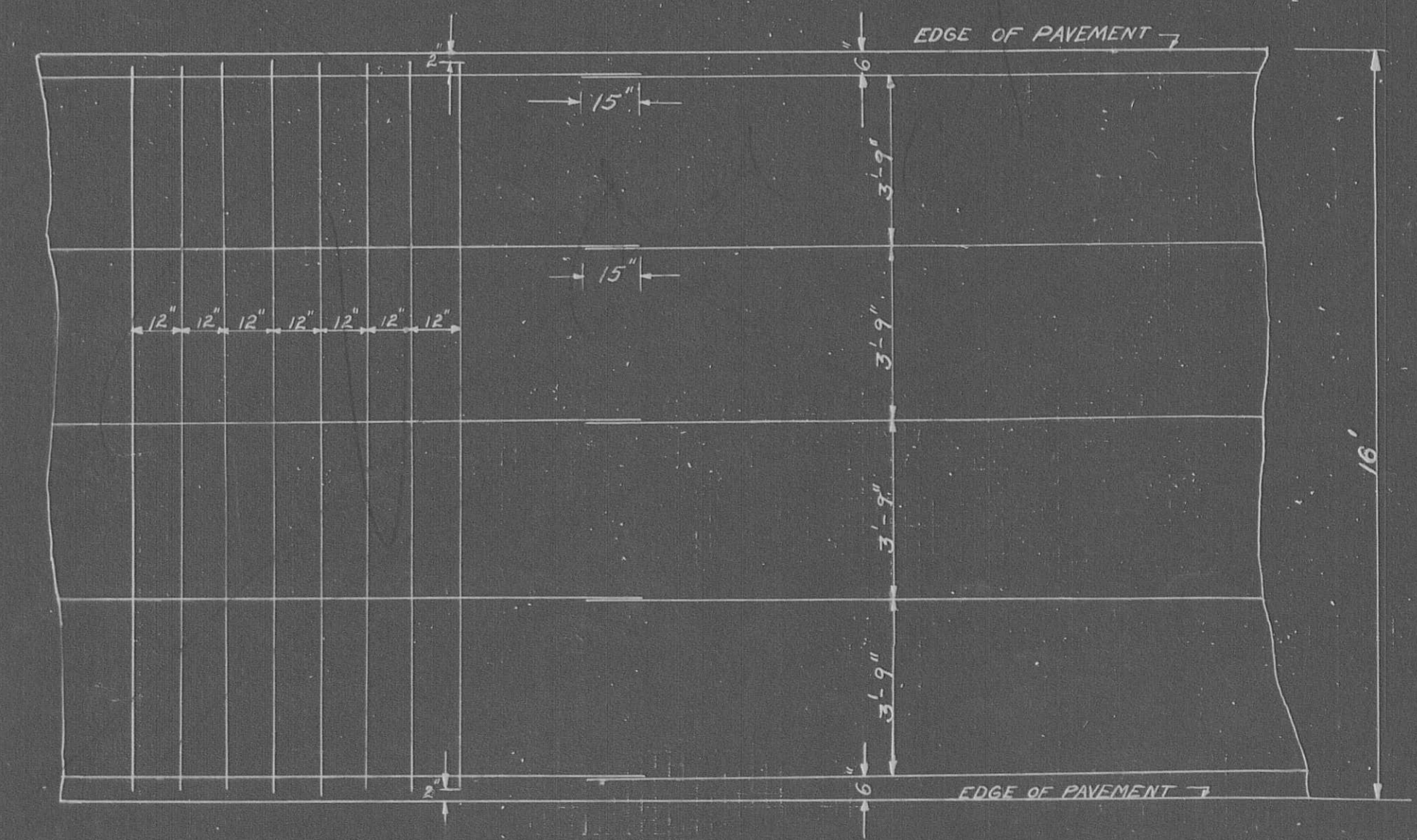
1385.68  
302+00  
1387.53

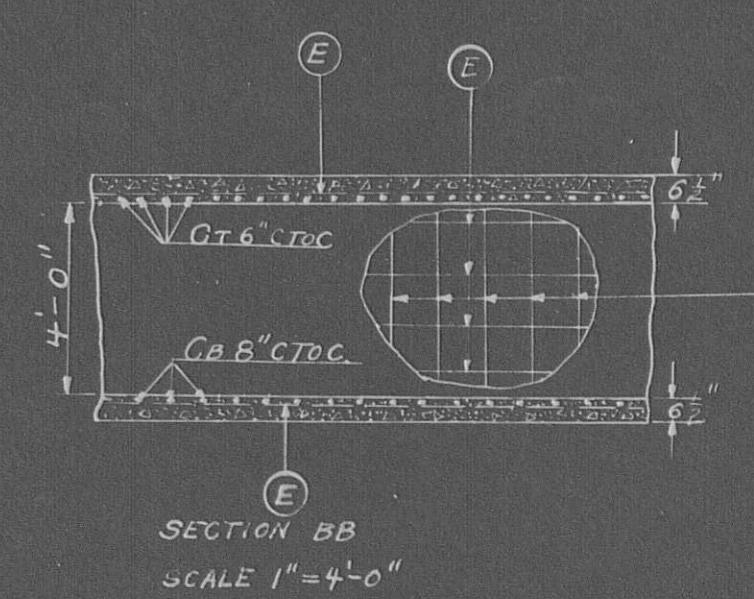
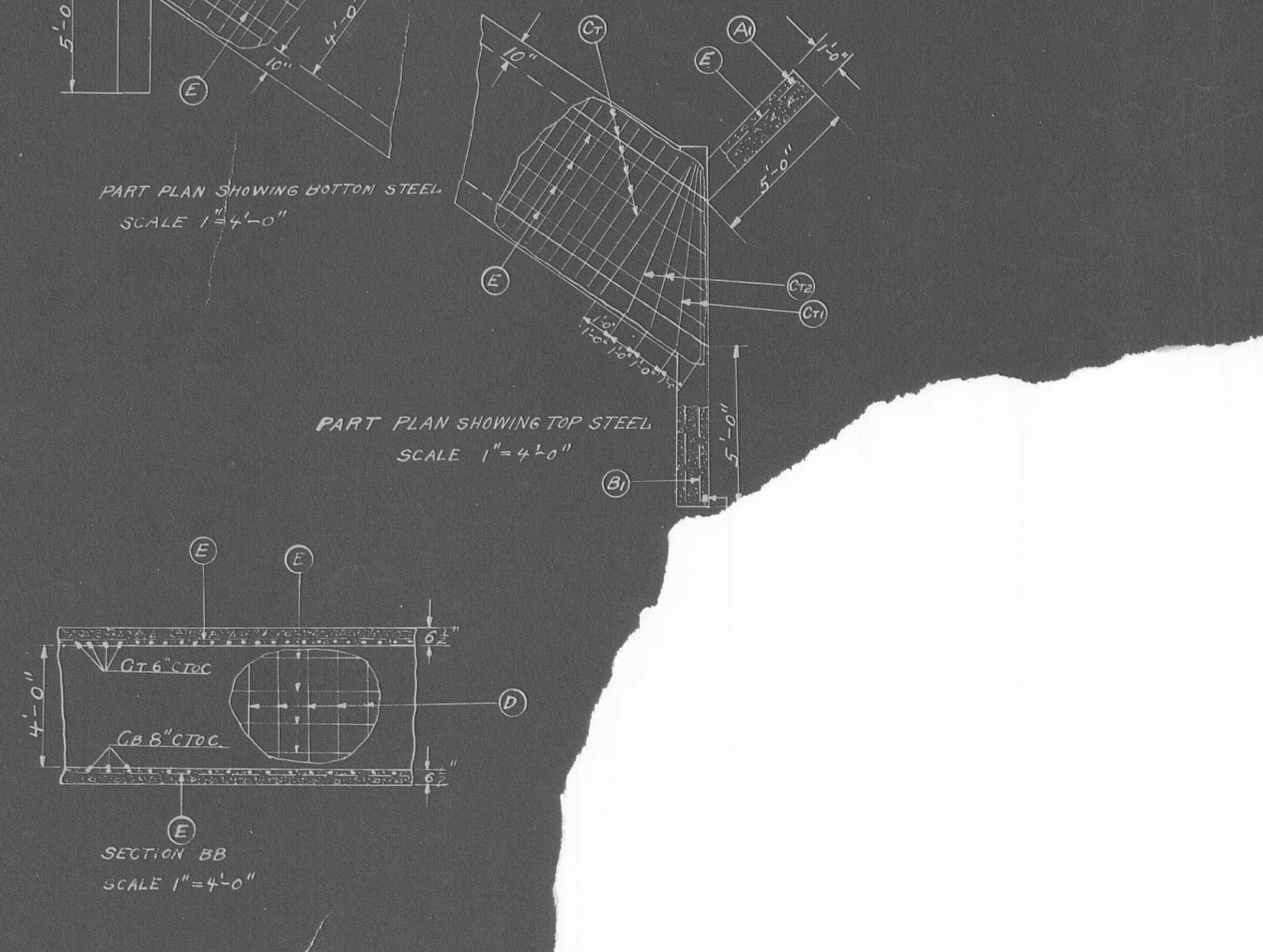
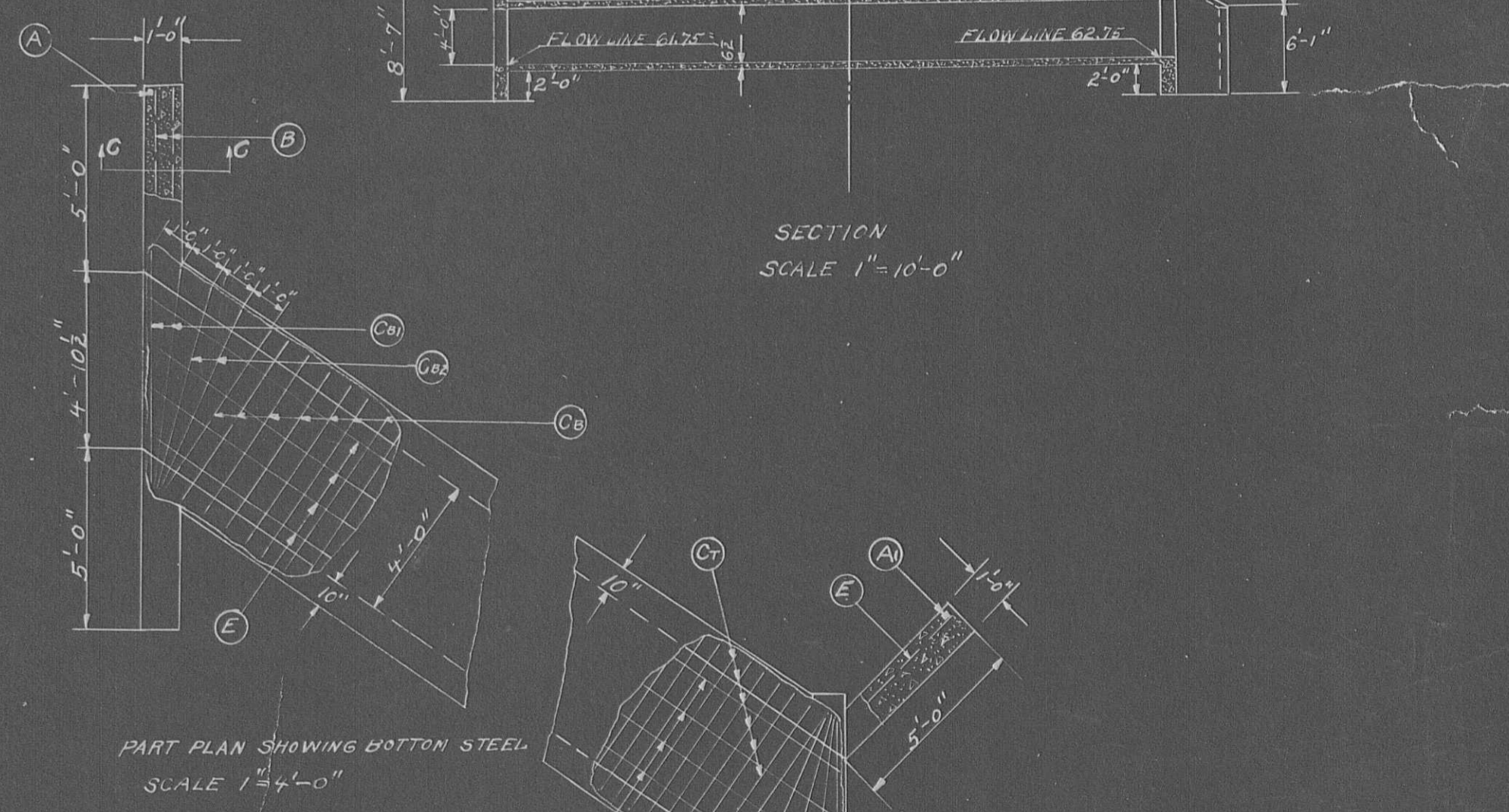
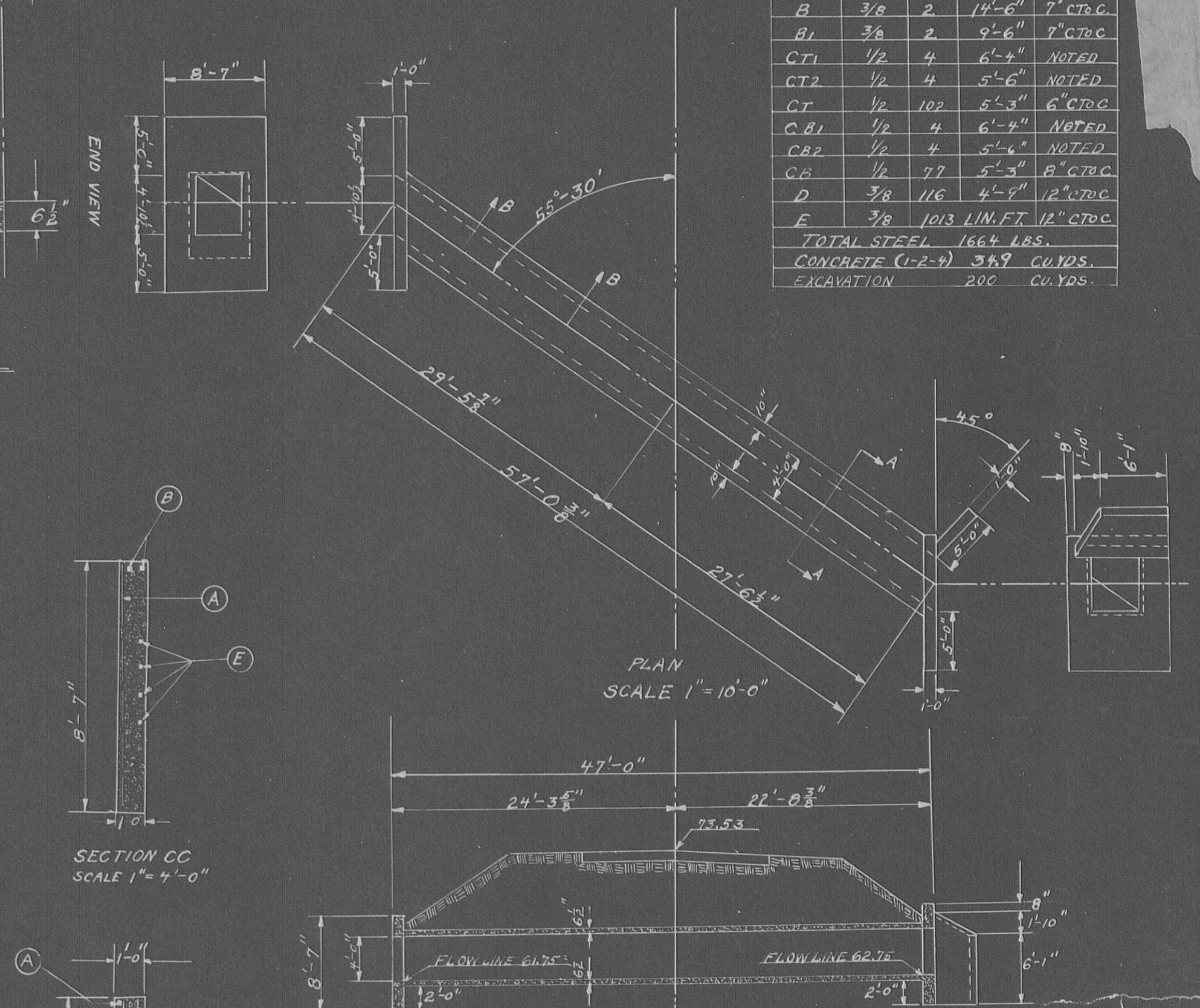
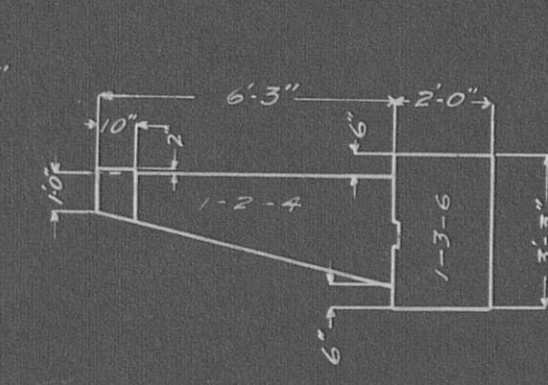
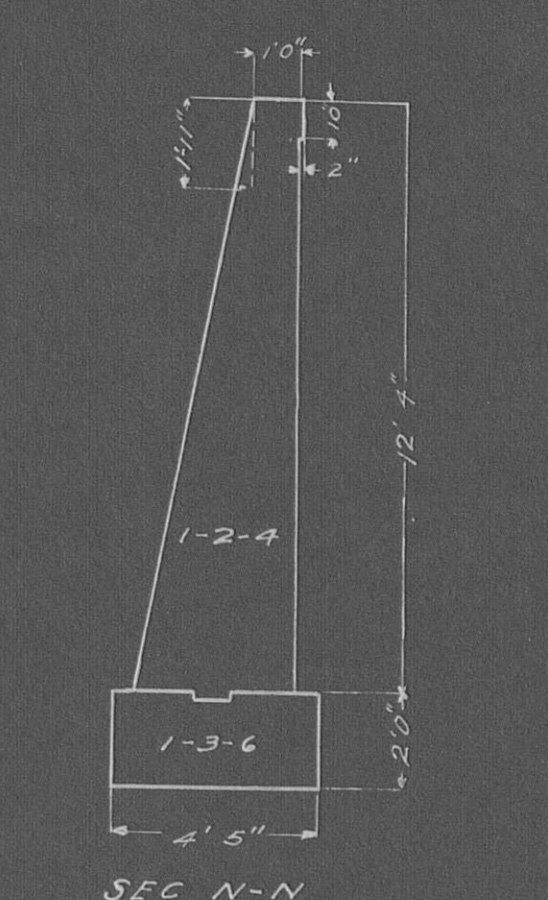
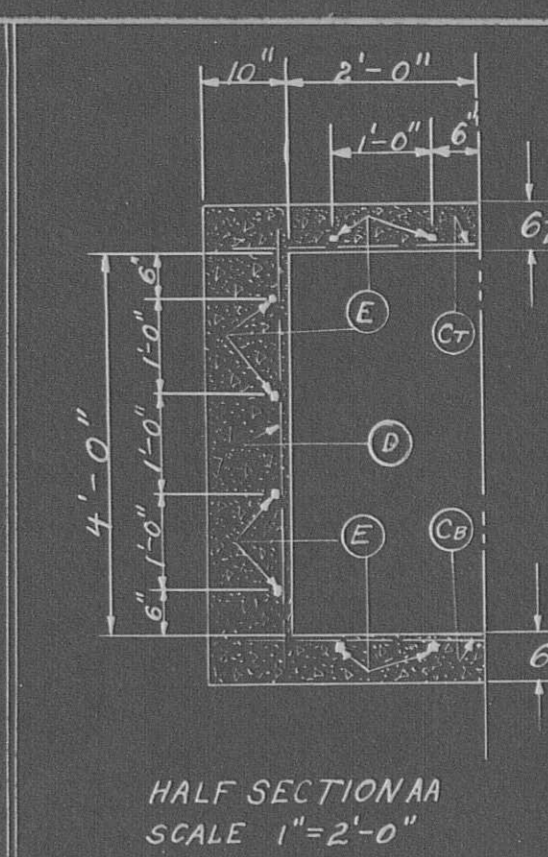
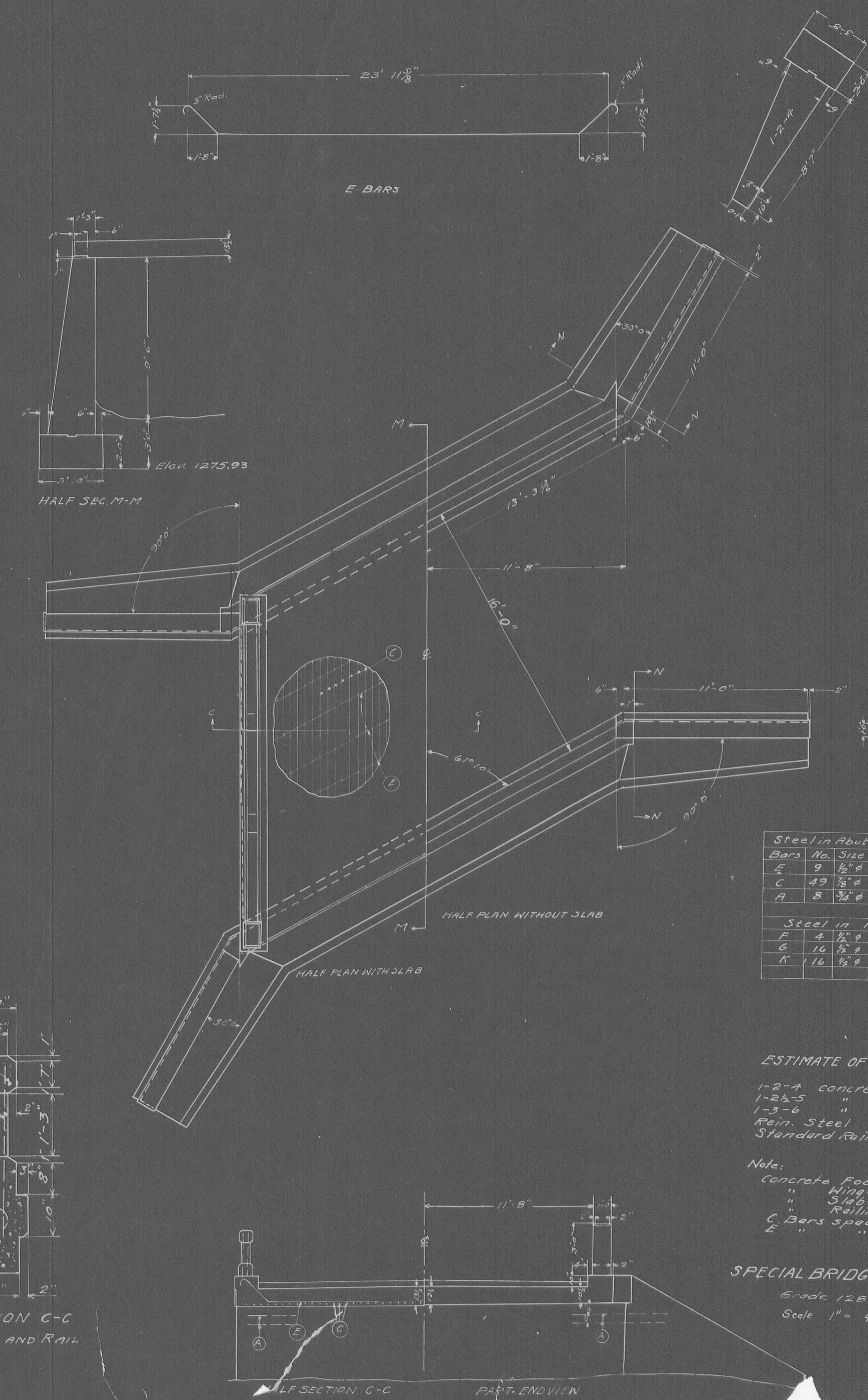
1383.61  
301+00  
1383.63

1379.54  
300+00  
1377.71



NOTE:  
 DETAILS OF PAVEMENT WILL BE COMPLETED  
 IN ACCORDANCE WITH SPECIFIC INSTRUCTIONS  
 FOR TYPE DETERMINED UPON FOR SPECIFIC  
 PROJECT.  
 ON GRADES OVER 5% BERMS TO BE  
 WIDENED TO 6 1/2 FEET.  
 PROFILE AND CROSS SECTION WORKED OUT  
 ON TYPE 'B' PAVEMENT. IF TYPE 'A'  
 PAVEMENT IS USED THE GRADE LINE  
 WILL BE LOWERED 0.2 FEET.  
 REINFORCING BARS TO BE 1/2" Ø OR  
 EQUIVALENT. CROSS SECTION (EXCEPT EACH  
 BAR NEAREST EDGE OF PAVEMENT WHICH  
 IS 3/4" Ø) LONGITUDINAL BARS 30' LONG  
 TRANSVERSE BARS TO BE 4" LESS THAN  
 WIDTH OF PAVEMENT AND SPACED 12"  
 C. TO C.





I.C.H 236 Sec. F-2  
Logan Co.

QUANTITIES				
MARK	SIZE	NO	LENGTH	SPACED
A	3/8	3	8'-0"	NOTED
A1	3/8	1	5'-6"	NOTED
B	3/8	2	14'-6"	7" CTR.C.
B1	3/8	2	9'-6"	7" CTR.C.
CT1	1/2	4	6'-4"	NOTED
CT2	1/2	4	5'-6"	NOTED
CT	1/2	102	5'-3"	6" CTR.C.
CB1	1/2	4	6'-4"	NOTED
CB2	1/2	4	5'-4"	NOTED
CB	1/2	77	5'-3"	8" CTR.C.
D	3/8	116	4'-5"	12" CTR.C.
E	3/8	103	LIMIT	12" CTR.C.
TOTAL STEEL			1664	LBS.
CONCRETE (1-2-4)			36.53	CU.YDS.
EXCAVATION			200	CU.YDS.

ELEVATION  
FIG 1275.93

PART SECTION C-C  
SHOWING CURB AND RAIL

Steel in Abut & Slab			
Bars	No.	Size	Length
E	9	1/2" φ	26'-0"
C	49	7/8" φ	20'-3"
A	8	3/4" φ	6'-6"
Total Weight			
E			156 lbs.
C			2028 "
A			77 "

Steel in Railing			
Bars	No.	Size	Length
F	4	1/2" φ	20'-0"
G	16	1/2" φ	3'-6"
K	16	1/2" φ	4'-0"
Total Weight			
F			53 "
G			37 "
K			43 "

ESTIMATE OF QUANTITIES.

1-2-4 concrete	19.45	cu.yds.
1-2-5 "	36.53	" "
1-3-6 "	12.78	" "
Rein. Steel	2261	lbs.
Standard Railing	41'-1"	

Note:  
Concrete Footings 1-3-6  
" Wing & Abut. 1-2-4-5  
" Slab & Curb 1-2-4  
" Railings 1-2-3  
C Bars spaced 5 1/2" cts.  
E " " 2'-0" "

SPECIAL BRIDGE Sta. 210+57  
Grade 1289.89 Sta 210+57  
Scale 1" = 4'-0"

